



WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

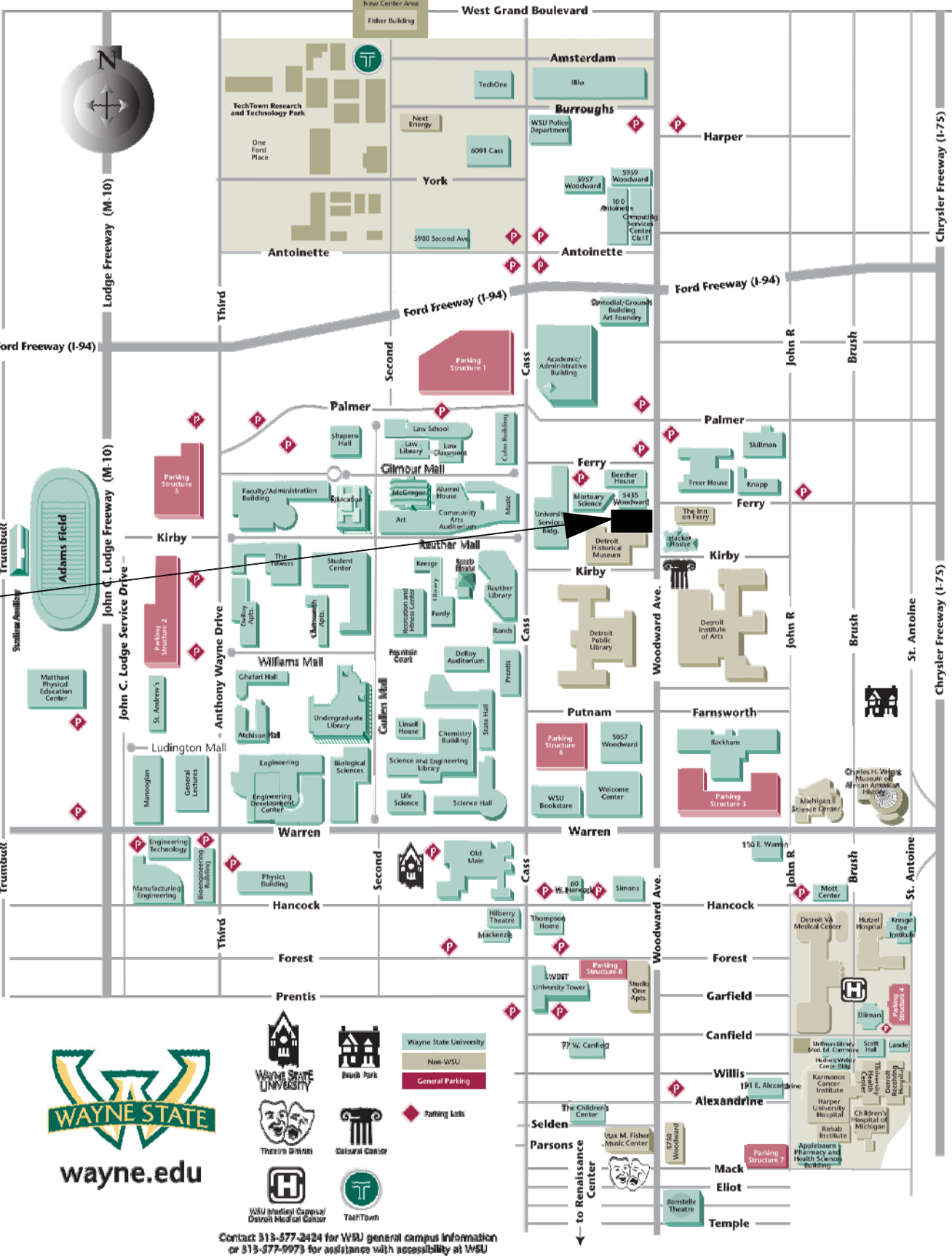
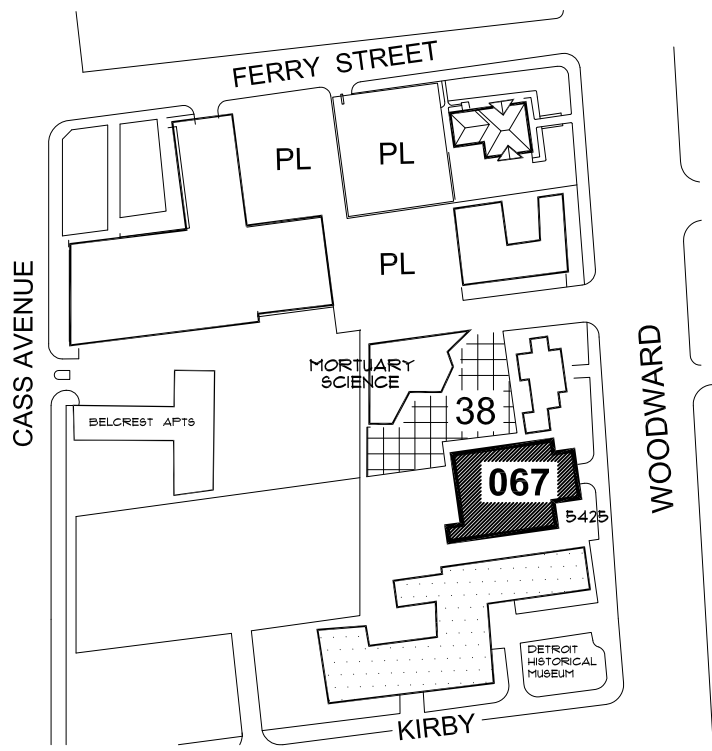
067 - 5425 Woodward
5425 Woodward Avenue
Detroit, Michigan 48202

GPS : 42.360168, - 83.067262

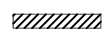
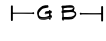
INDEX OF DRAWINGS

SHEET #	DESCRIPTION	
CVR	PROJECT COVER SHEET	
E-0	ELECTRICAL STANDARDS AND NOTES	
E-1	BASEMENT FLOOR POWER PLAN	- Reference Only
E-2	FIRST FLOOR POWER PLAN	
E-3	SECOND FLOOR POWER PLAN	
E-4	THIRD FLOOR POWER PLAN	
E-5	FOURTH FLOOR POWER PLAN	- Reference Only

Project Location : 5425 Woodward



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	5425 WOODWARD	142.1 201 322.01	YES YES YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
04	UNKNOWN	
03	UNKNOWN	11' - 0"
02	UNKNOWN	11' - 3"
01	UNKNOWN	14' - 5 1/2"
B	UNKNOWN	1' - 6"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

DATE :
November 12, 2015

ISSUE :

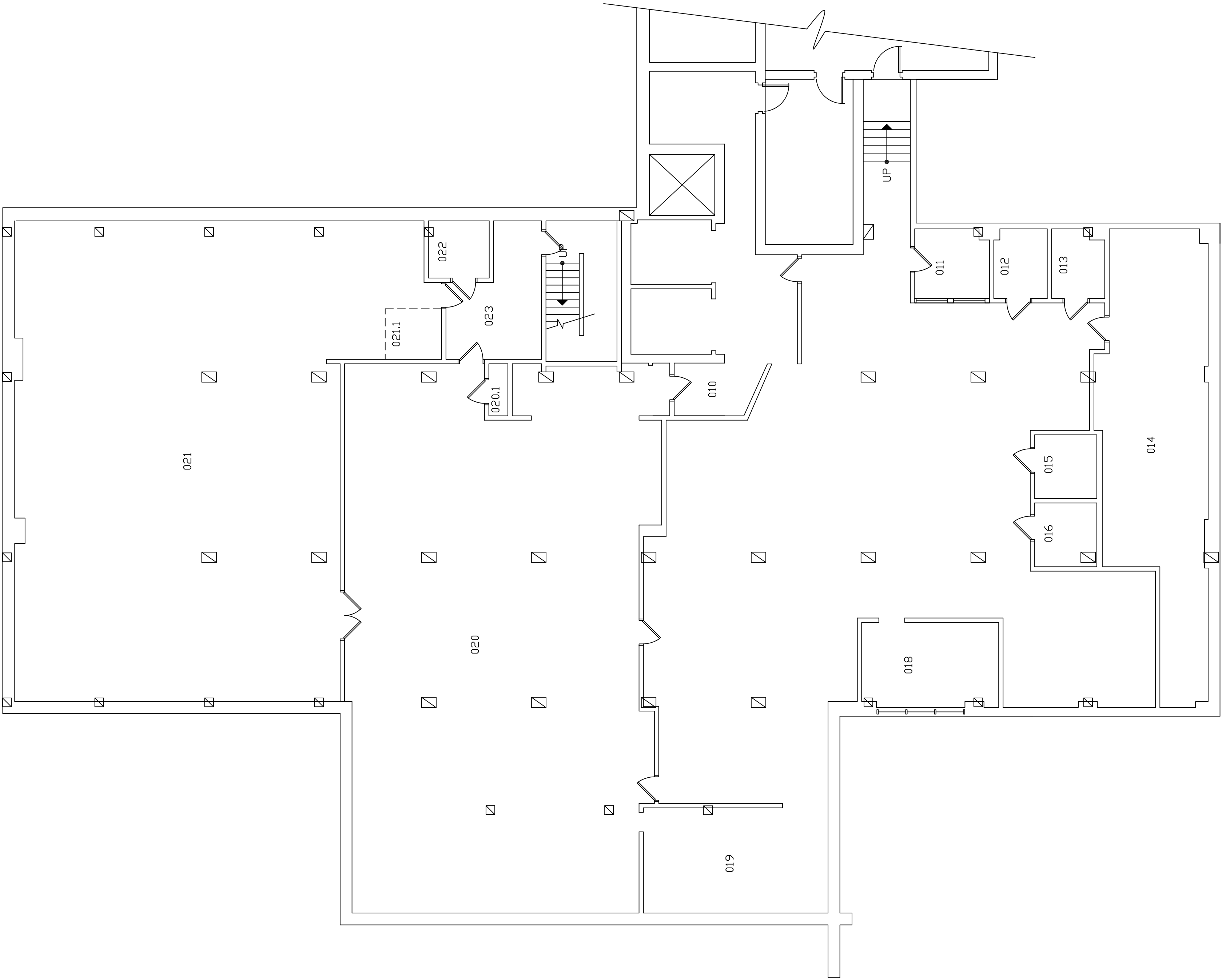
BIDS

PROJECT NUMBER
#193-248452

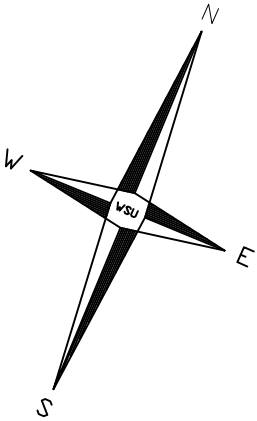
SHEET NO.

E-O

Reference Only



DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

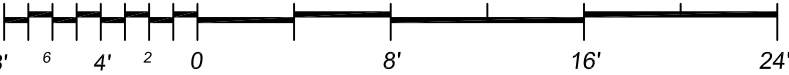


5425 WOODWARD
BUILDING #067
BASEMENT FLOOR



Basement Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
067 - 5425 Woodward Ave
VOIP - Phase 2B

SHEET :

Basement Floor Power Plan

REVISIONS:

DATE :
November 12, 2015

ISSUE :

BIDS

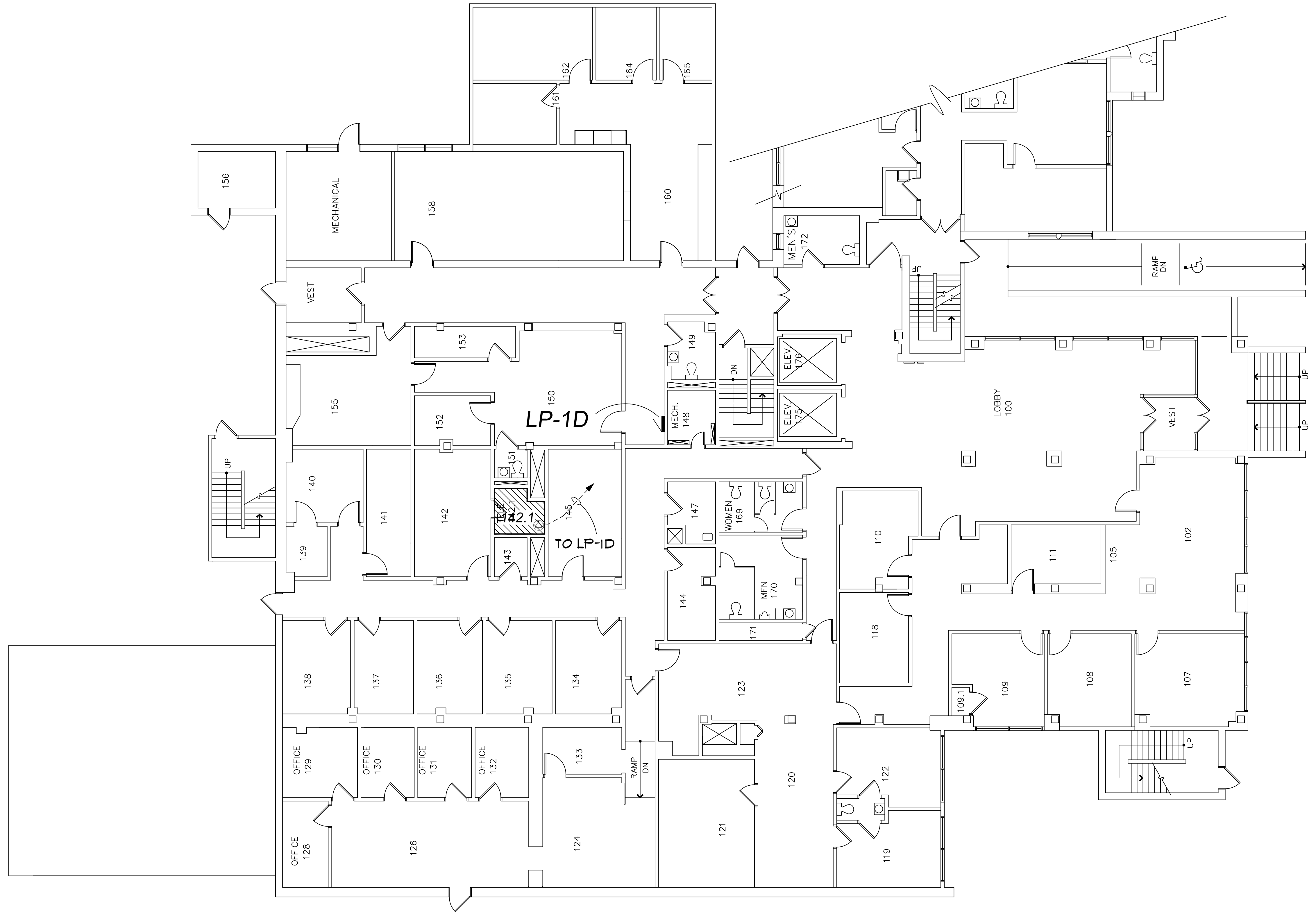
PROJECT NUMBER

#193-248452

SHEET NO.

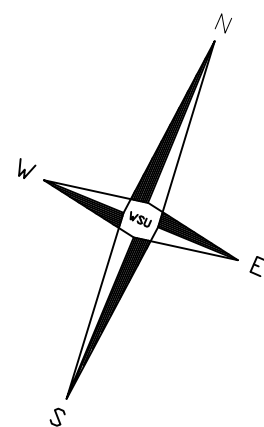
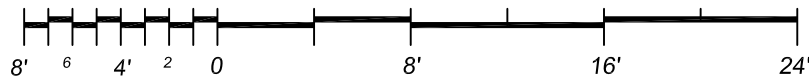
E-1

WAYNE STATE
UNIVERSITY



First Floor Power Plan

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



5425 WOODWARD
BUILDING #067
FIRST FLOOR

DISCLAIMER: WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS. THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
067 - 5425 Woodward Ave
VOIP - Phase 2B

SHEET :

First Floor Power Plan

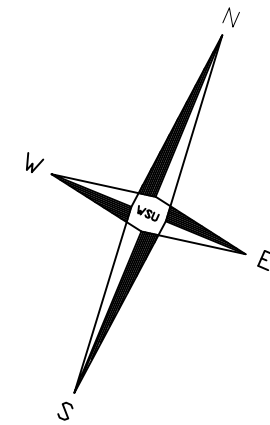
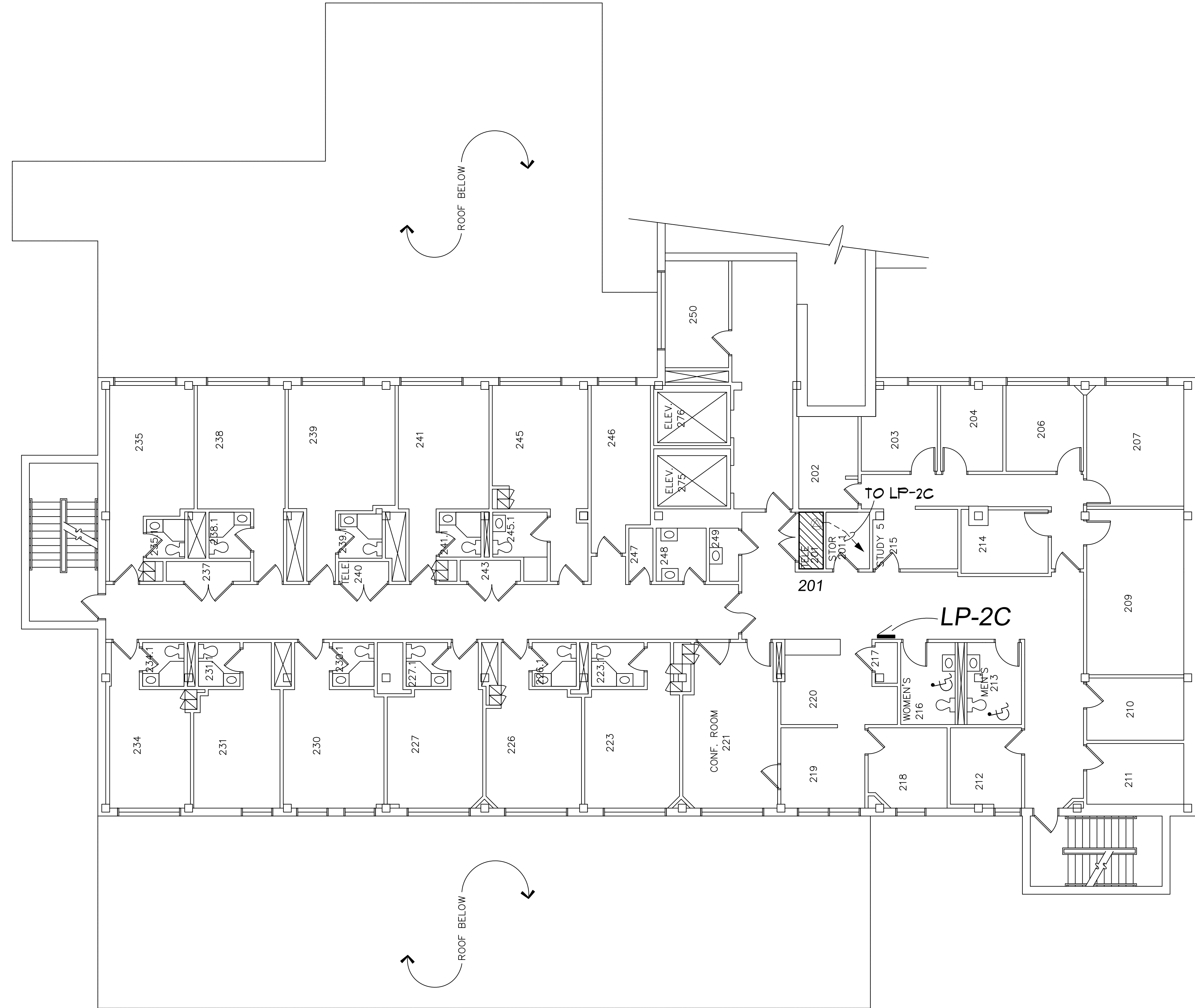
DATE :
November 12, 2015
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-2

REVISIONS :

WAYNE STATE
UNIVERSITY



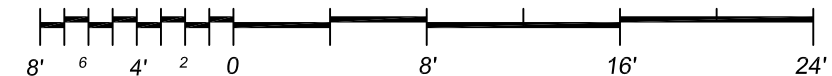
5425 WOODWARD
BUILDING #067
SECOND FLOOR

DISCLAIMER: WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS. THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Second Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
067 - 5425 Woodward Ave
VOIP - Phase 2B

SHEET :

Second Floor Power Plan

REVISIONS:

DATE :
November 12, 2015

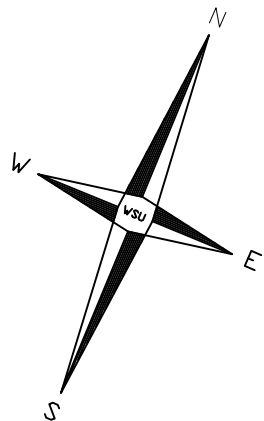
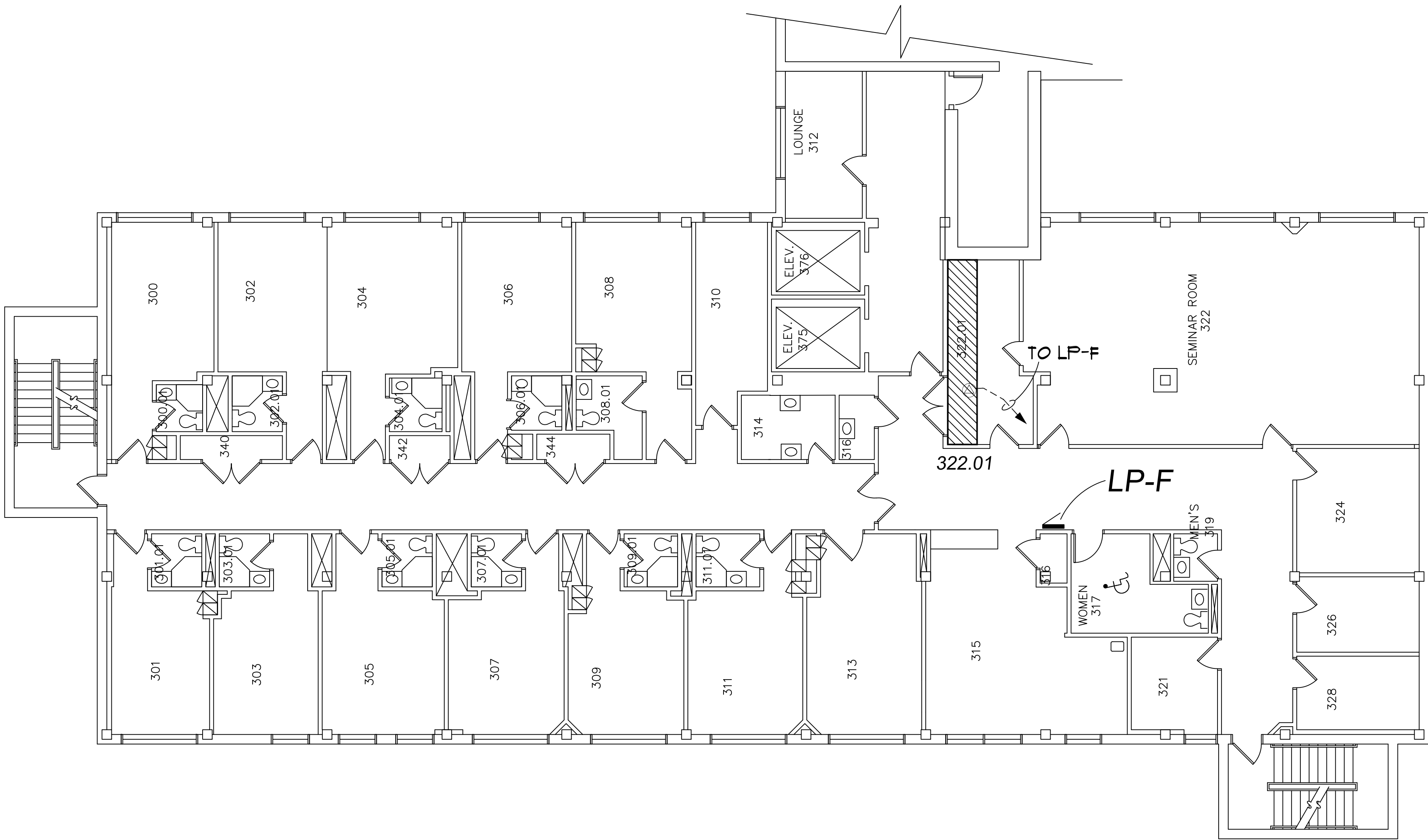
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.

E-3

WAYNE STATE
UNIVERSITY



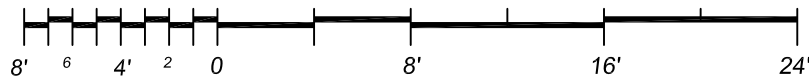
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

5425 WOODWARD
BUILDING #067
THIRD FLOOR



Third Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
067 - 5425 Woodward Ave
VOIP - Phase 2B

SHEET :
Third Floor Power Plan

DATE :
November 12, 2015
ISSUE :
BIDS

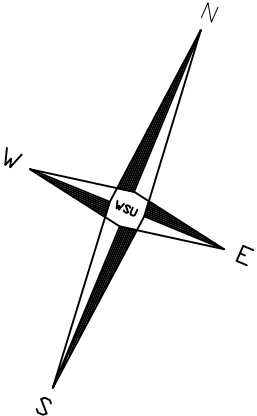
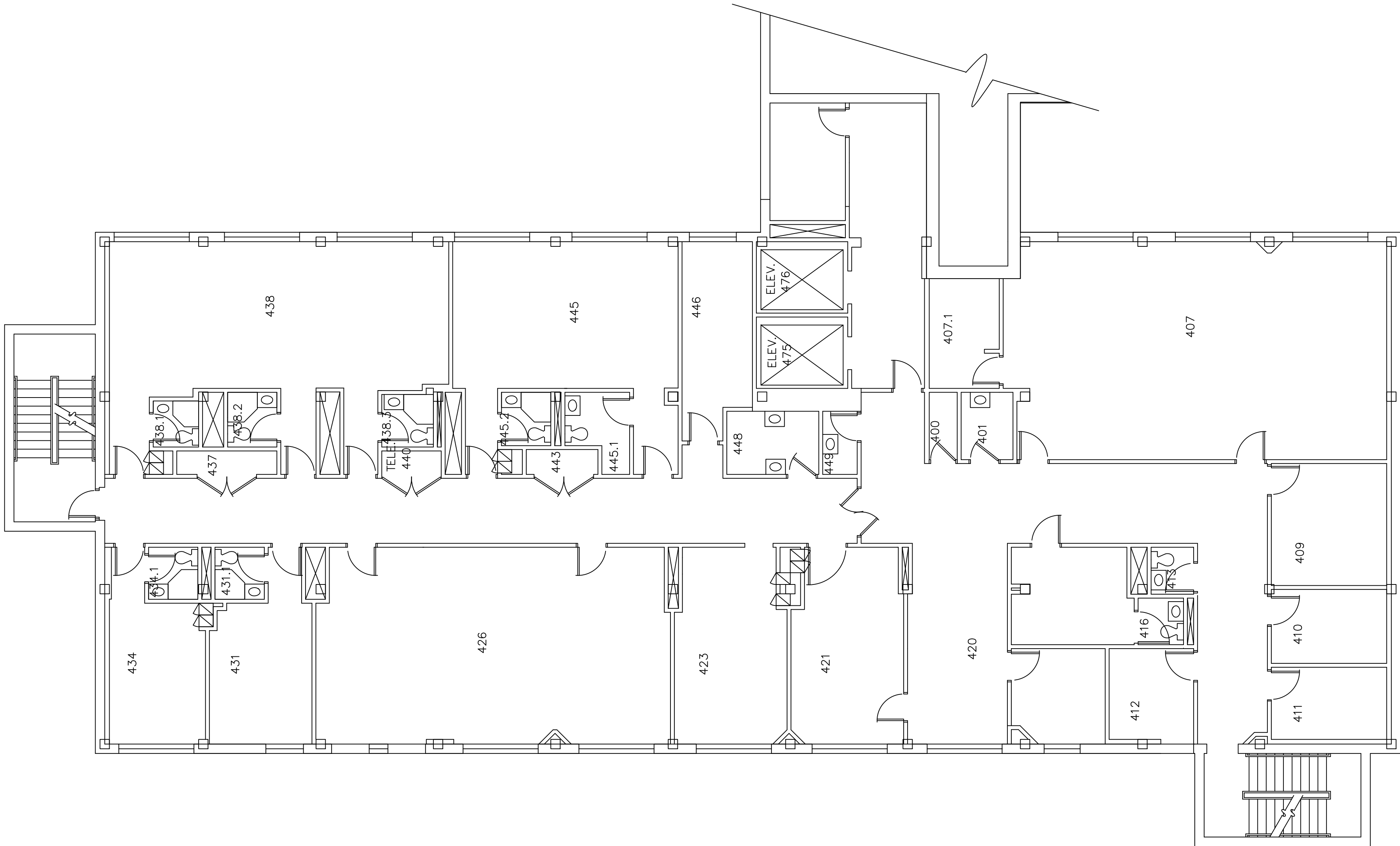
PROJECT NUMBER
#193-248452

SHEET NO.
E-4

REVISIONS:

WAYNE STATE
UNIVERSITY

Reference Only



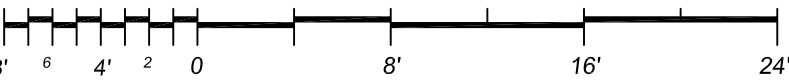
5425 WOODWARD
BUILDING #067
FOURTH FLOOR

DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Fourth Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
067 - 5425 Woodward Ave
VOIP - Phase 2B

SHEET :

Fourth Floor Power Plan

REVISIONS :

DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.

E-5

WAYNE STATE
UNIVERSITY



WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD,
003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

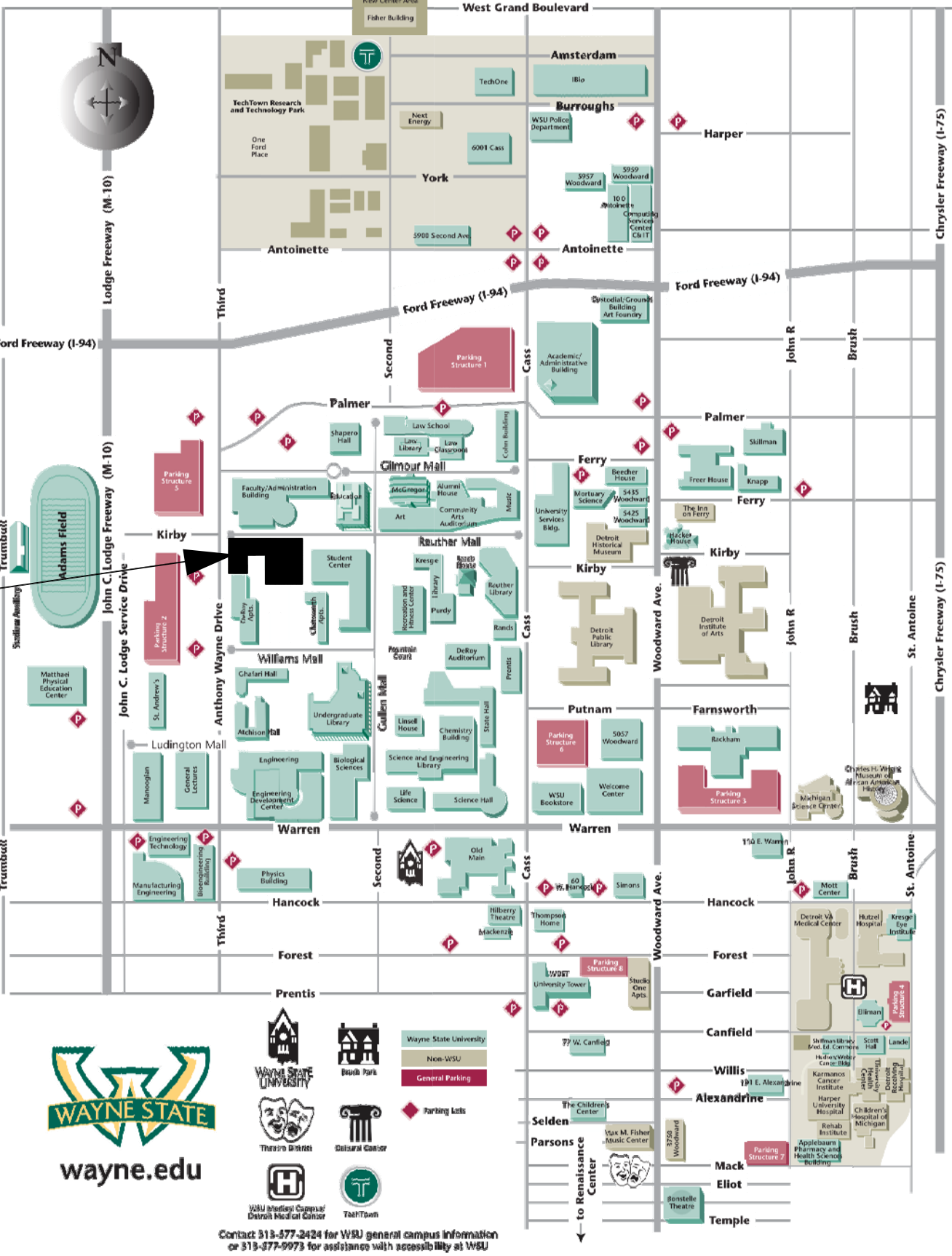
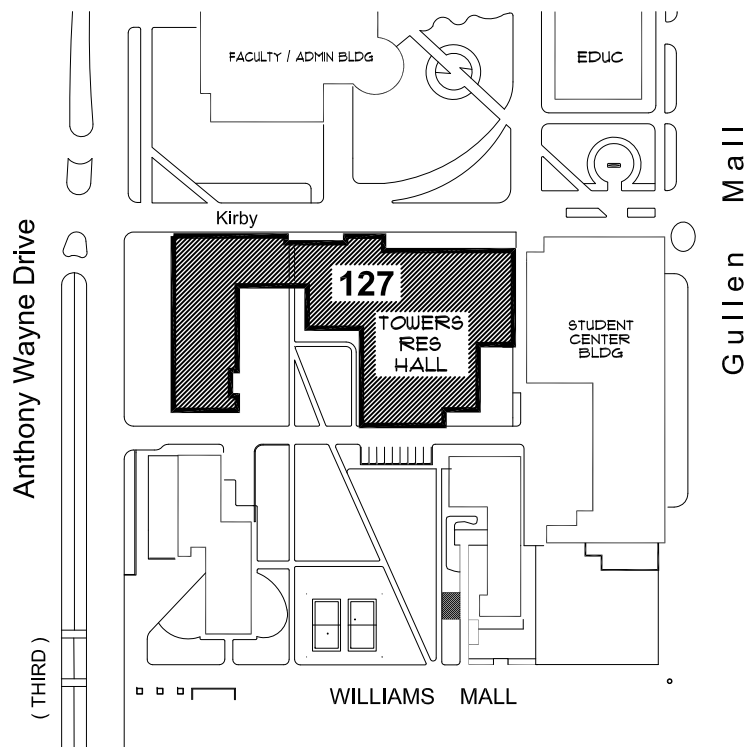
127 - Towers Residence Hall
655 West Kirby Avenue
Detroit, Michigan 48202

GPS : 42.358104, - 83.07224

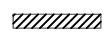
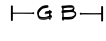
INDEX OF DRAWINGS

SHEET #	DESCRIPTION
CVR	PROJECT COVER SHEET
E-0	ELECTRICAL STANDARDS AND NOTES
E-1	FIRST FLOOR POWER PLAN
E-2	SECOND FLOOR POWER PLAN
E-3	THIRD FLOOR POWER PLAN
E-4	FOURTH FLOOR POWER PLAN
E-5	FIFTH FLOOR POWER PLAN
E-6	SIXTH FLOOR POWER PLAN
E-7	SEVENTH FLOOR POWER PLAN
E-8	EIGHTH FLOOR POWER PLAN
E-9	NINTH FLOOR POWER PLAN
E-10	TENTH FLOOR POWER PLAN
E-11	ELEVENTH FLOOR POWER PLAN - Reference Only

Project Location : 127 Towers
Residence Hall



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	TOWERS RESIDENCE HALL	133.1	YES	
		213, 215	YES	
		333, 315	YES	
		433, 415	YES	
		533, 515	YES	
		633, 615	YES	
		733, 715	YES	
		833, 815	YES	
		933, 915	YES	
		1,033	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
ROOF	206' - 0"	TO CURTAIN WALL
11	195' - 0"	11' - 0"
10	186' - 0"	9' - 0"
09	177' - 0"	9' - 0"
08	168' - 0"	9' - 0"
07	159' - 0"	9' - 0"
06	150' - 0"	9' - 0"
05	141' - 0"	9' - 0"
04	132' - 0"	9' - 0"
03	123' - 0"	9' - 0"
02	114' - 0"	9' - 0"
01	105' - 0"	14' - 0"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

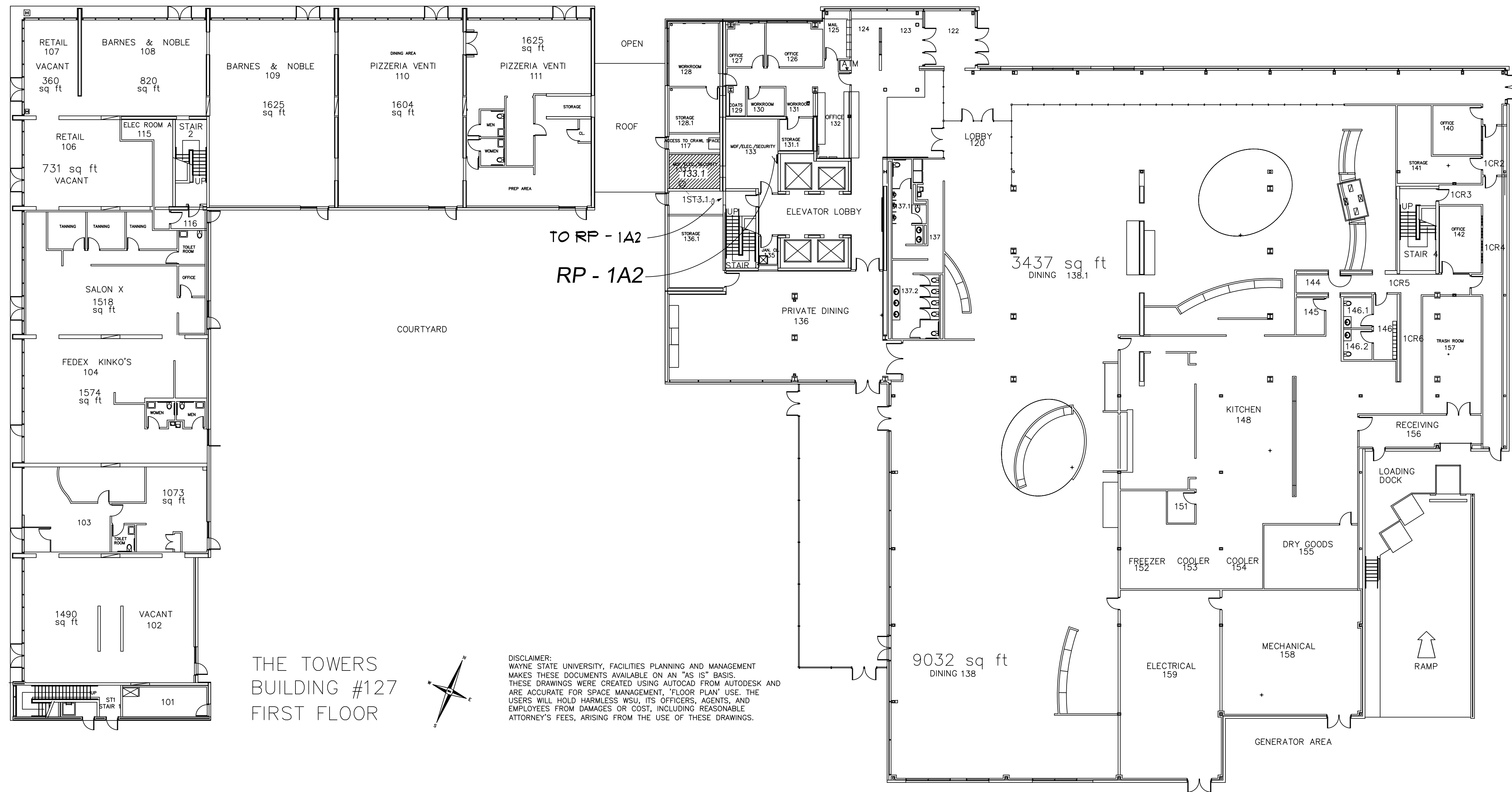
ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

REVISIONS :					
-------------	--	--	--	--	--

WAYNE STATE UNIVERSITY - Facilities Planning & Management CSC TELECOM ELECTRICAL UPGRADE	Electrical Standards and Notes	
	PROJECT TITLE :	127 - Towers Residence VOIP - Phase 2B

DATE : November 12, 2015
ISSUE : BIDS
PROJECT NUMBER #193-248452
SHEET NO. E-0



THE TOWERS
BUILDING #127
FIRST FLOOR

DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, FLOOR PLAN USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



First Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
127 - Towers Residence
VOIP - Phase 2B

SHEET :
First Floor Power Plan

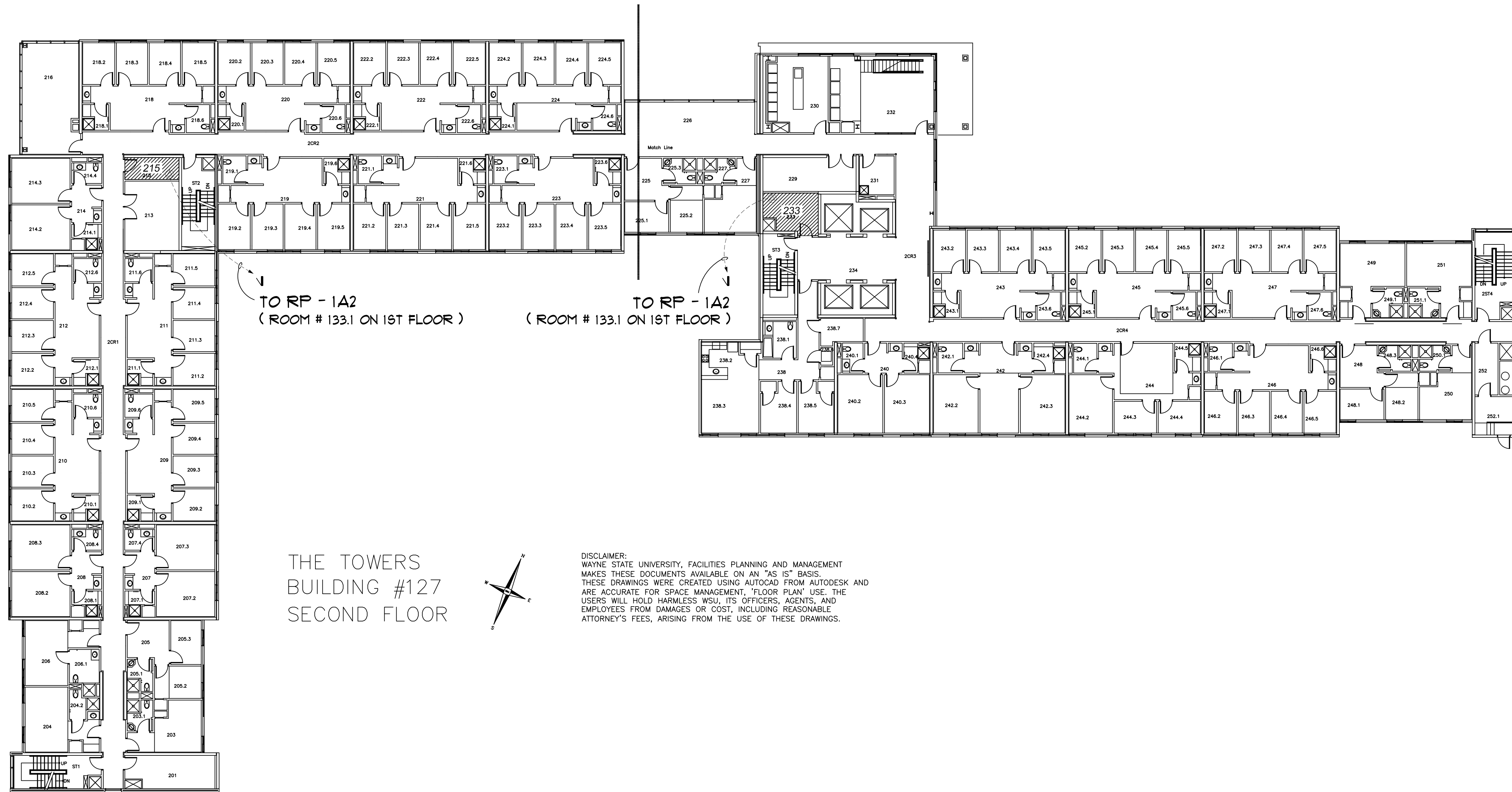
DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-1

REVISIONS :



THE TOWERS
BUILDING #127
SECOND FLOOR



DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Second Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
127 - Towers Residence
VOIP - Phase 2B

SHEET :
Second Floor Power Plan

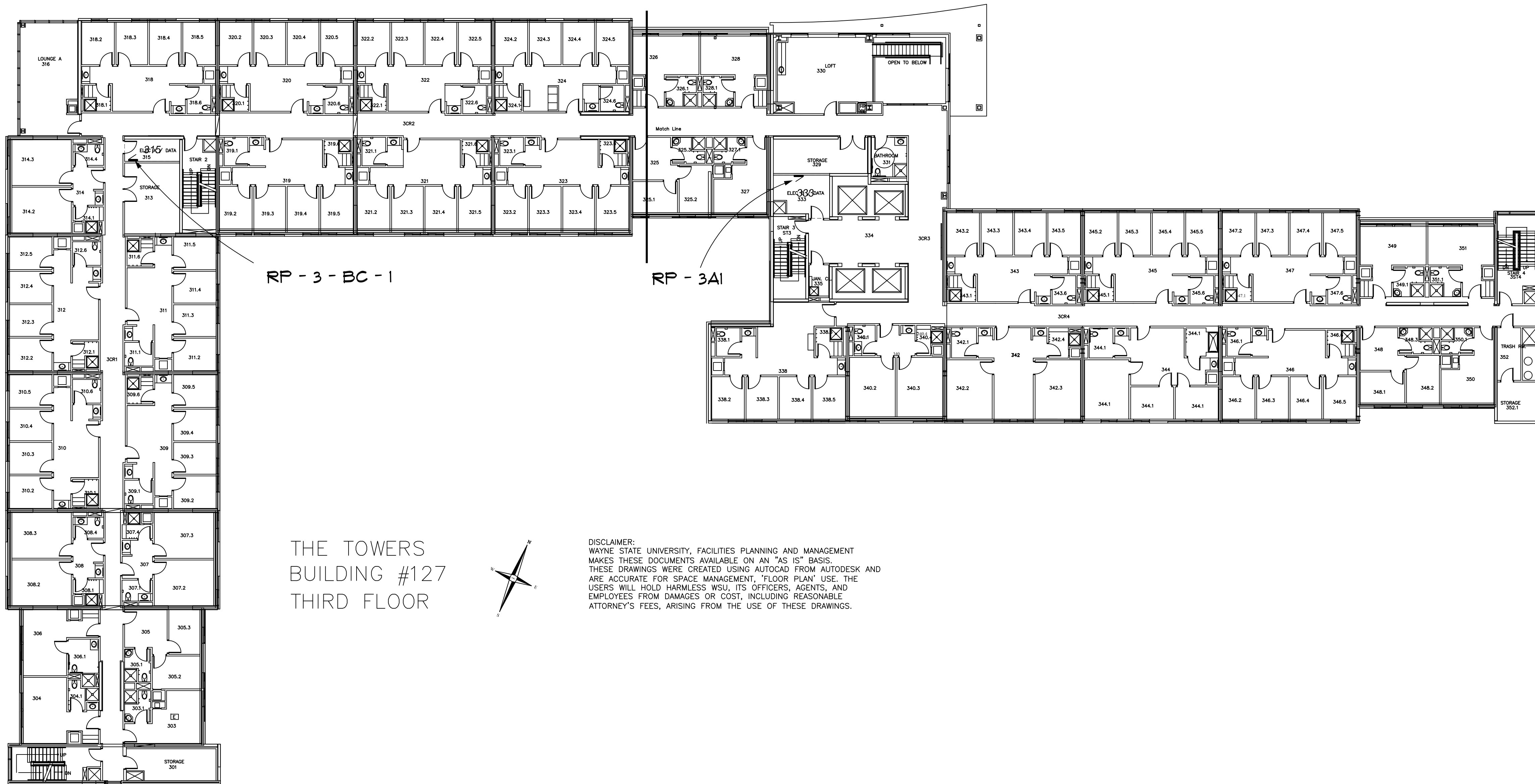
DATE :
November 12, 2015
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

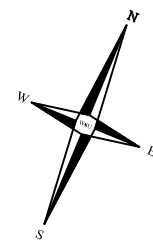
SHEET NO.
E-2

REVISIONS :

WAYNE STATE
UNIVERSITY



THE TOWERS
BUILDING #127
THIRD FLOOR

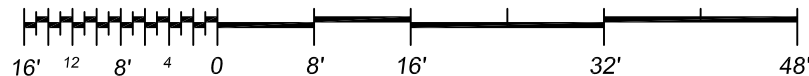


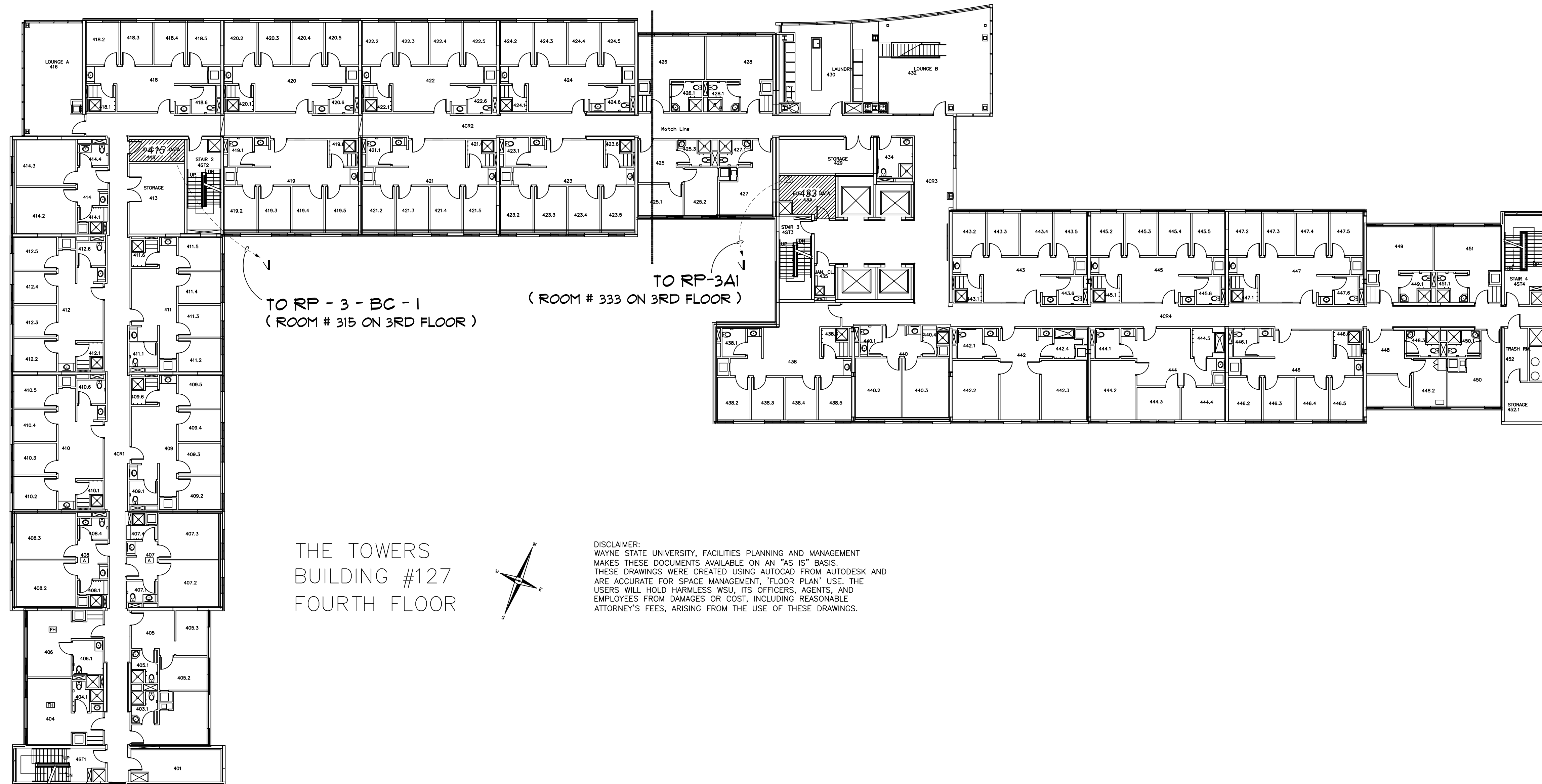
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Third Floor Power Plan

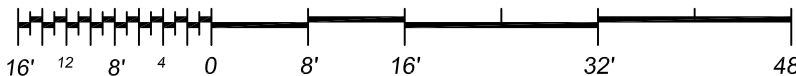
Scale : 1/16" = 1'-0"

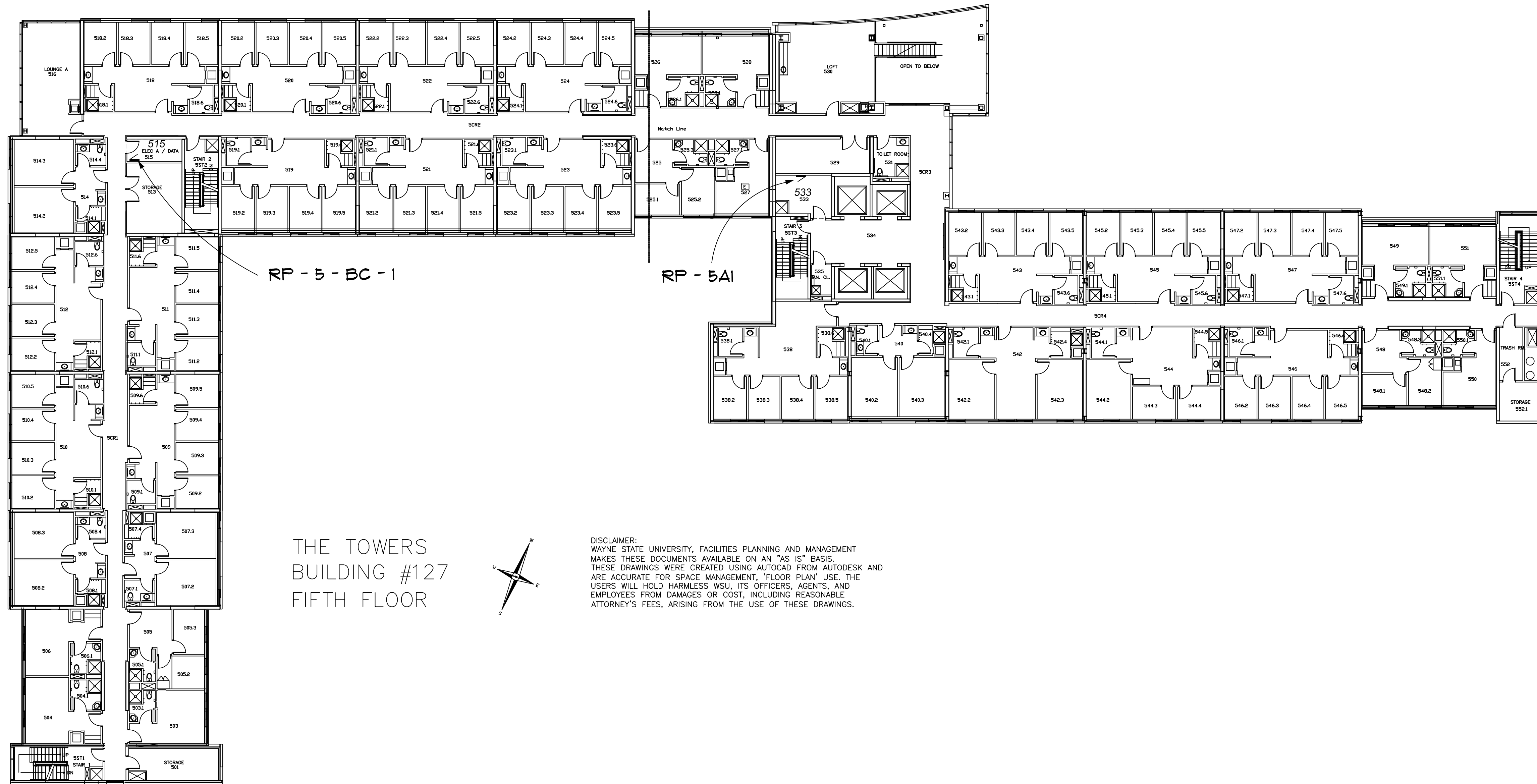


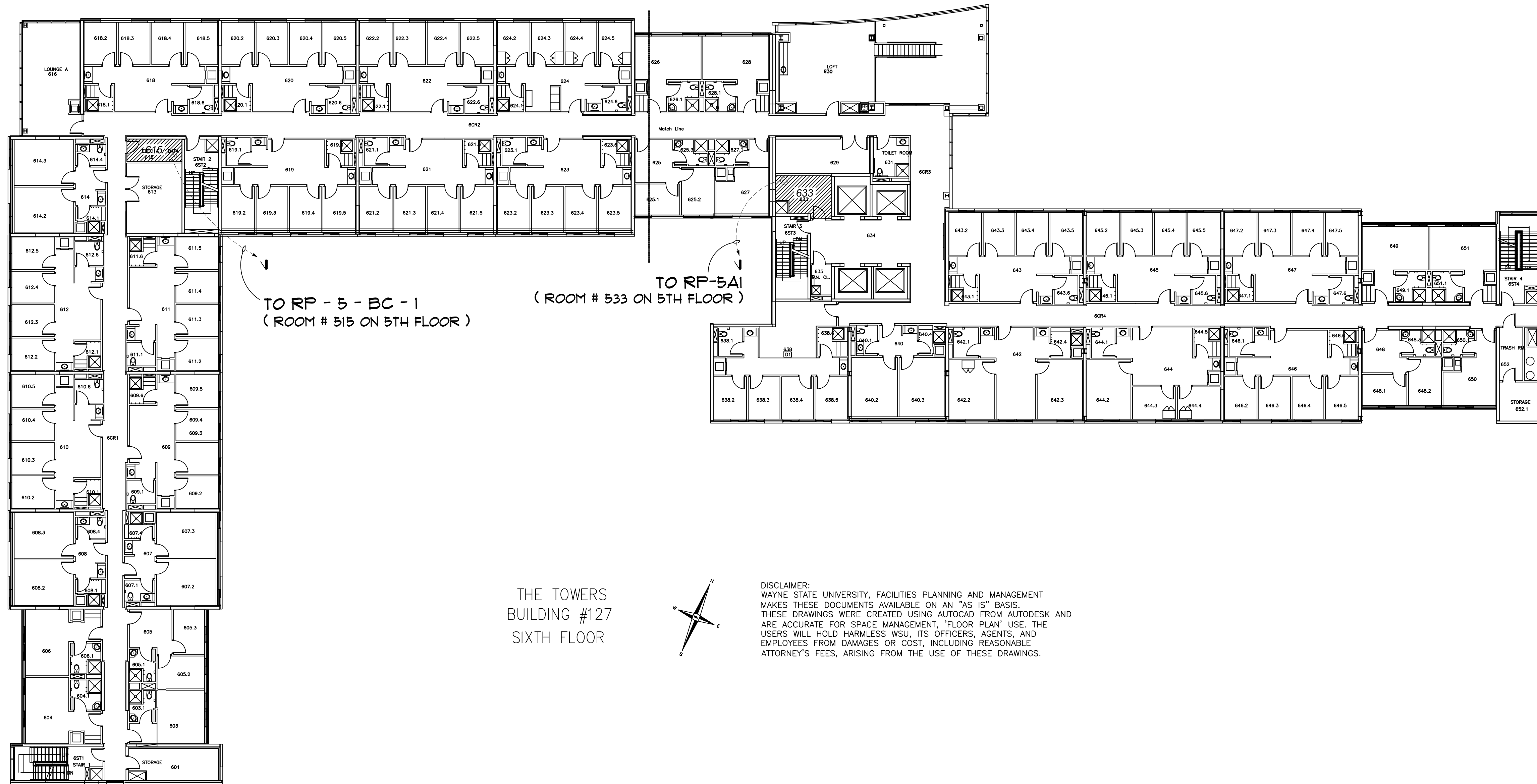


Fourth Floor Power Plan

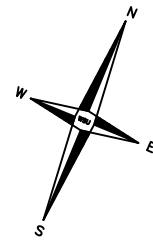
Scale : 1/16" = 1'-0"







THE TOWERS
BUILDING #127
SIXTH FLOOR

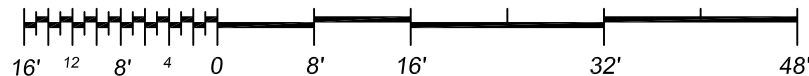


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE, THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Sixth Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

WAYNE STATE
UNIVERSITY

REVISIONS:

127 - Towers Residence
VOIP - Phase 2B

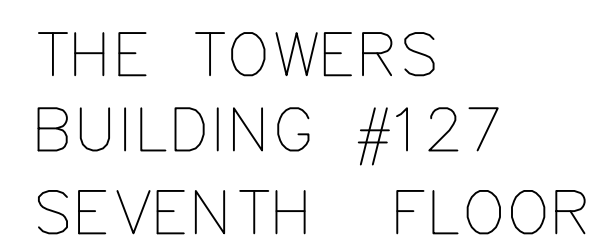
DATE :
November 12, 2015

ISSUE :
BIDS

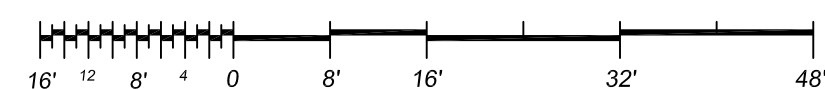
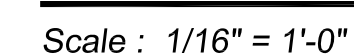
PROJECT NUMBER
#193-248452

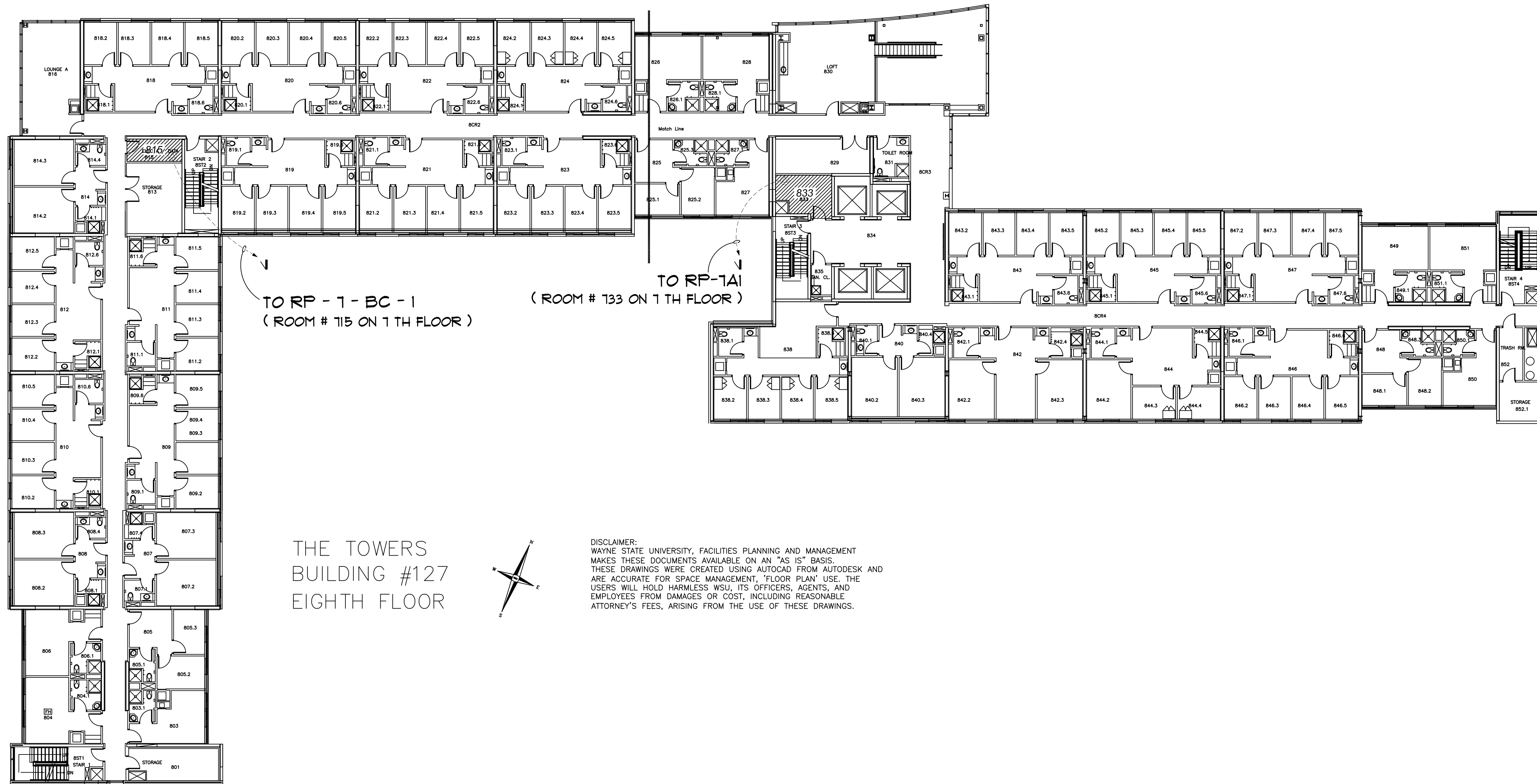
SHEET NO.
E-6

SIXTH FLOOR POWER PLAN

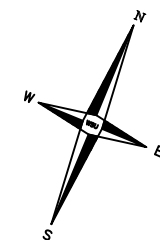


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.





THE TOWERS
BUILDING #127
EIGHTH FLOOR



DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Eighth Floor Power Plan

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



WAYNE STATE
UNIVERSITY

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

127 - Towers Residence
VOIP - Phase 2B

SHEET :

PROJECT TITLE :

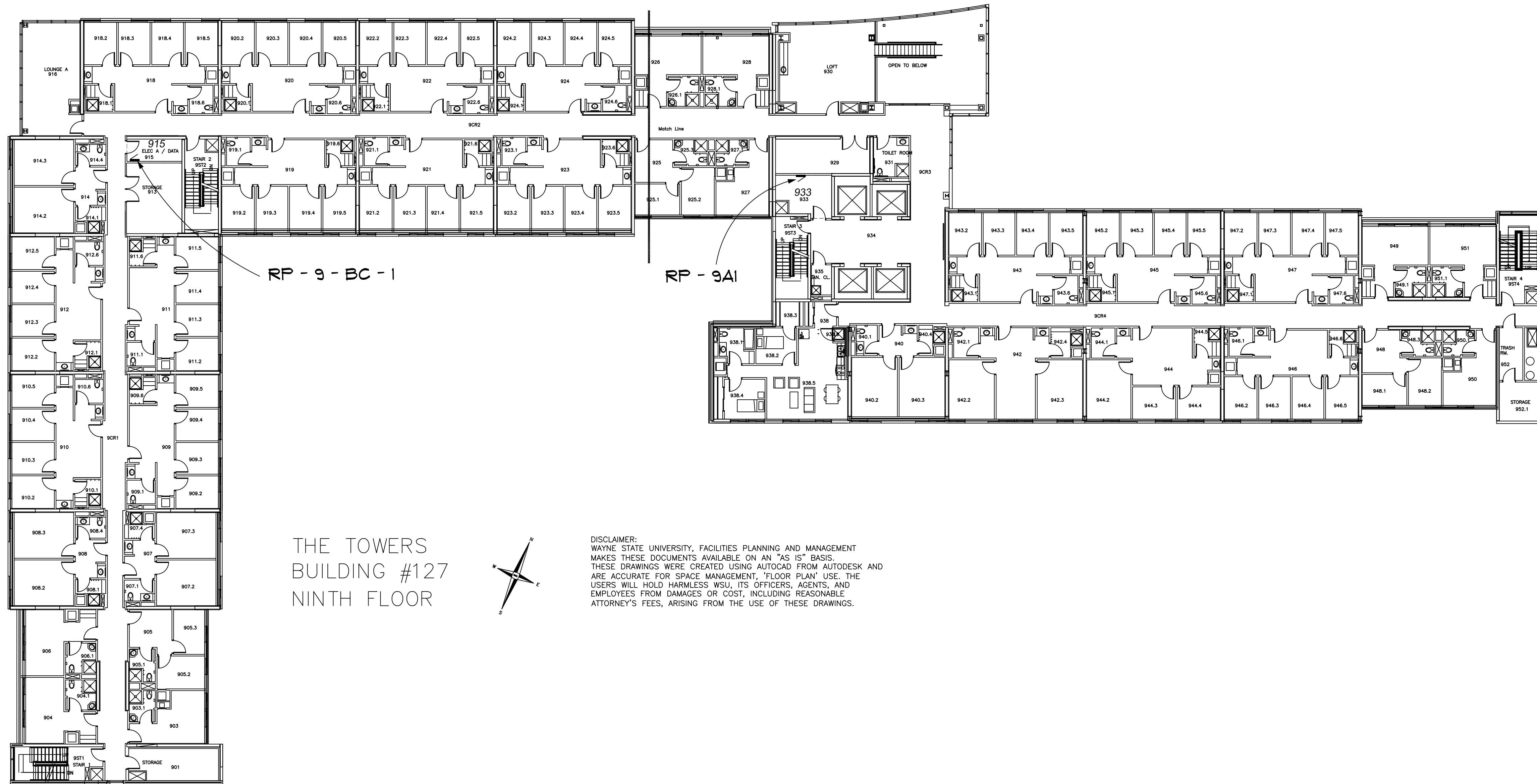
DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

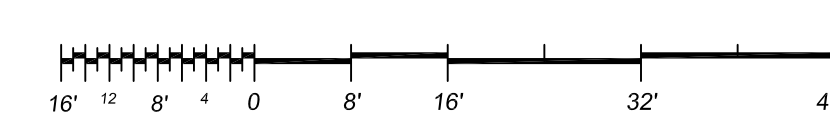
SHEET NO.

E-8



Ninth Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

Tenth Floor Power Plan

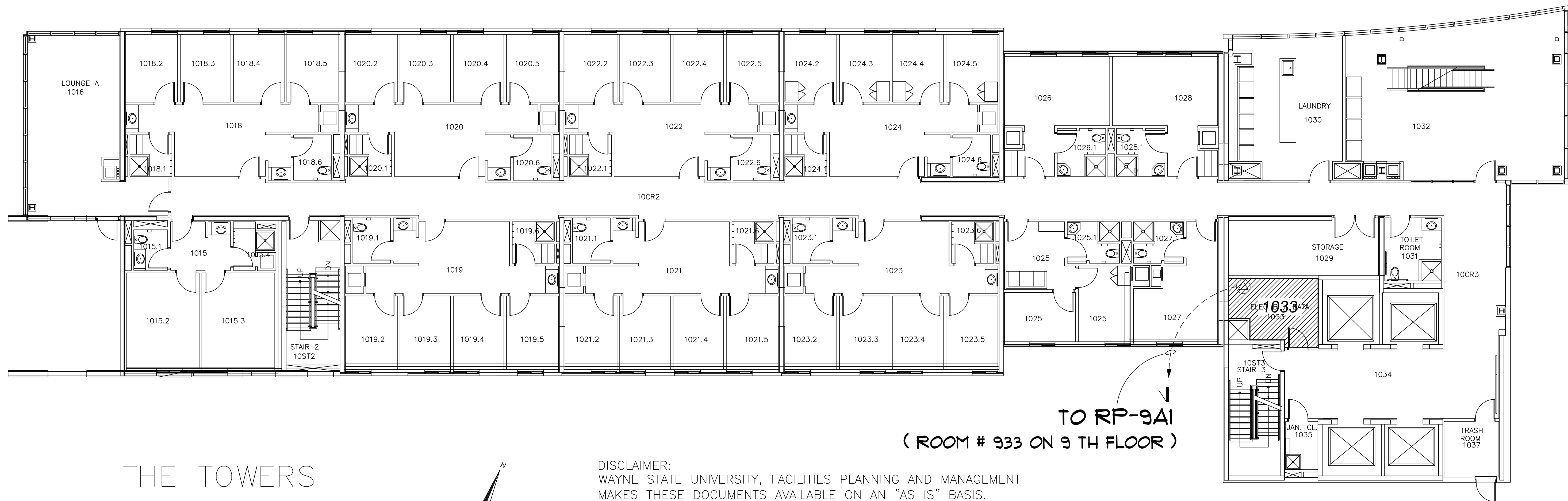
127 - Towers Residence
VOIP - Phase 2B

DATE :
November 12, 2015
ISSUE :
BIDS

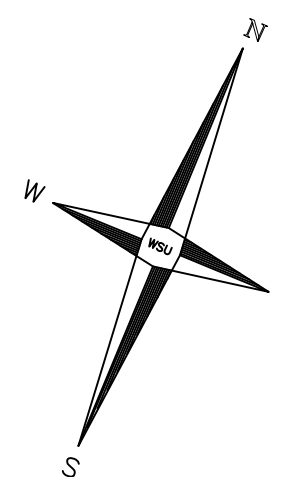
PROJECT NUMBER
#193-248452

SHEET NO.

E-10



THE TOWERS
BUILDING #127
TENTH FLOOR



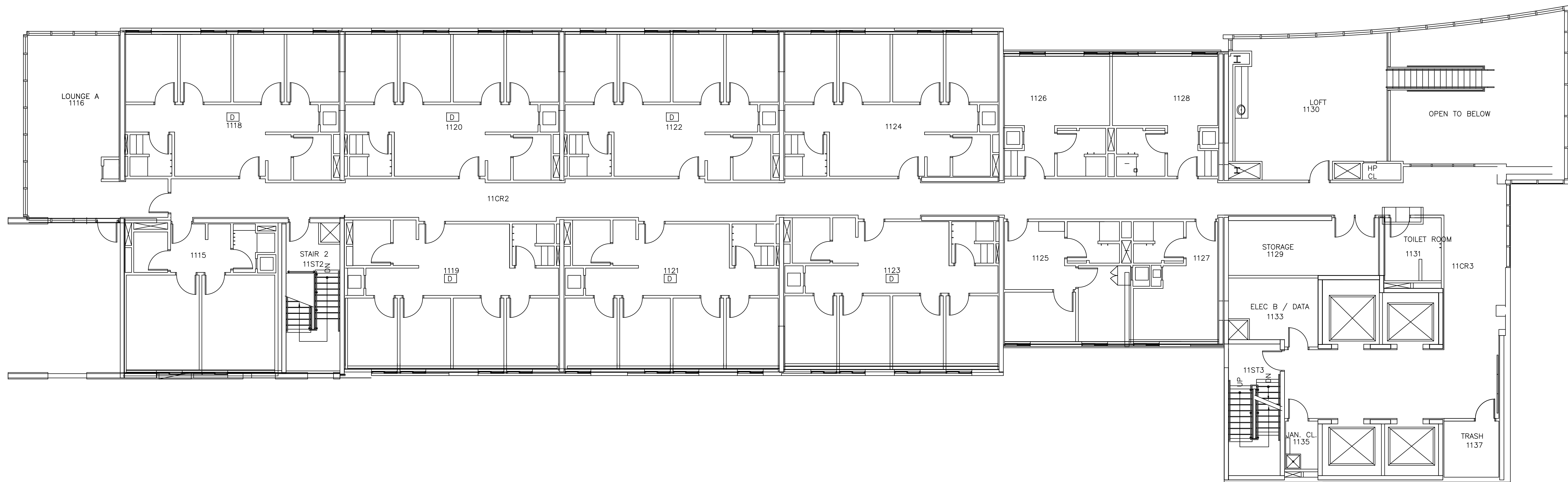
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



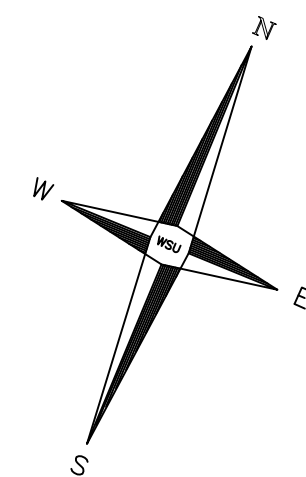
Tenth Floor Power Plan

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

8' 4' 2' 0' 8' 16' 24'



THE TOWERS
BUILDING #127
ELEVENTH FLOOR



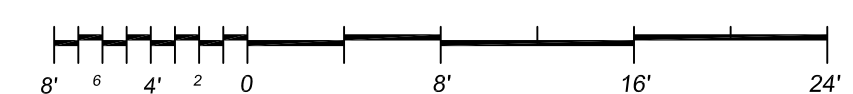
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

Reference Only



Eleventh Floor Power Plan

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



DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.

E-11



WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

068 - Simons Building

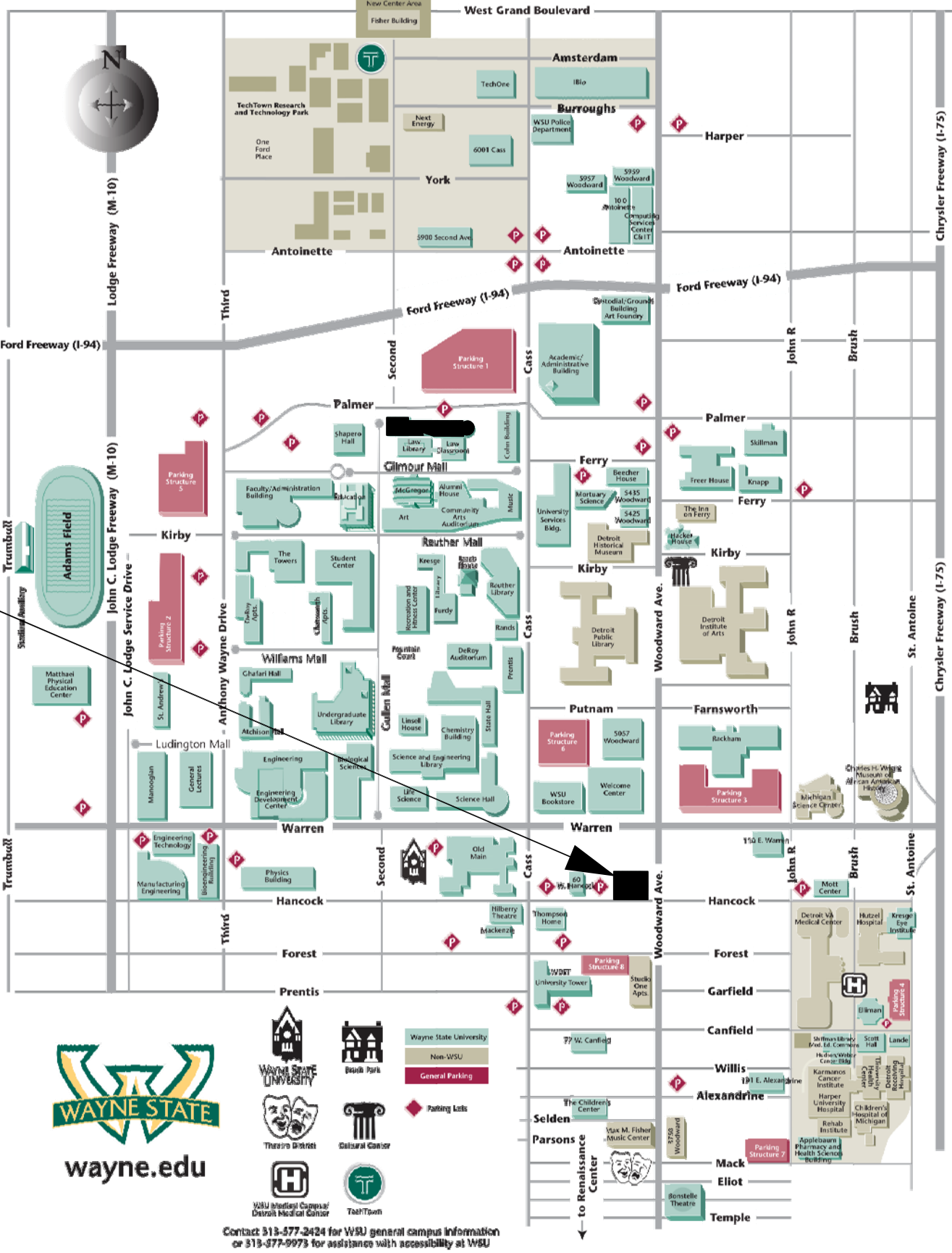
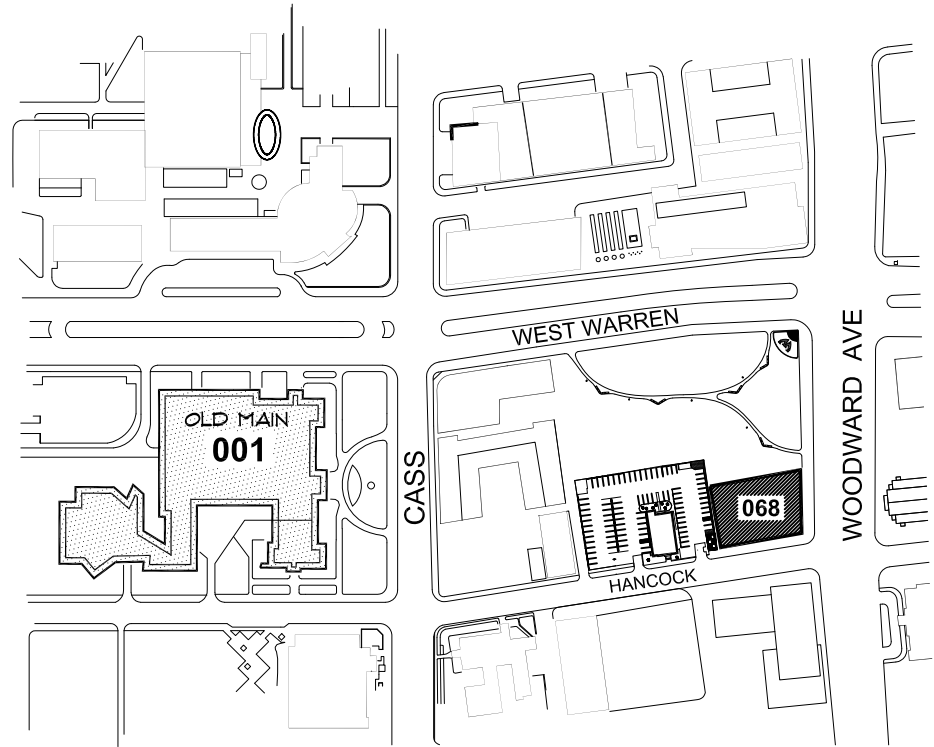
4809 Woodward Avenue
Detroit, Michigan 48202

GPS : 42.353885, - 83.069472

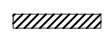
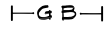
INDEX OF DRAWINGS

SHEET #	DESCRIPTION	
CVR	PROJECT COVER SHEET	
E-0	ELECTRICAL STANDARDS AND NOTES	
E-1	BASEMENT FLOOR POWER PLAN	- Reference Only
E-2	FIRST FLOOR POWER PLAN	
E-3	SECOND FLOOR POWER PLAN	
E-4	THIRD FLOOR POWER PLAN	

Project Location : Simons Bldg



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	SIMONS BUILDING	161	YES	
		261	YES	
		361	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
ROOF	UNKNOWN	UNKNOWN
03		13' - 2" TO CEILING
02		13' - 11"
01		16' - 1"
B		12' - 1"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

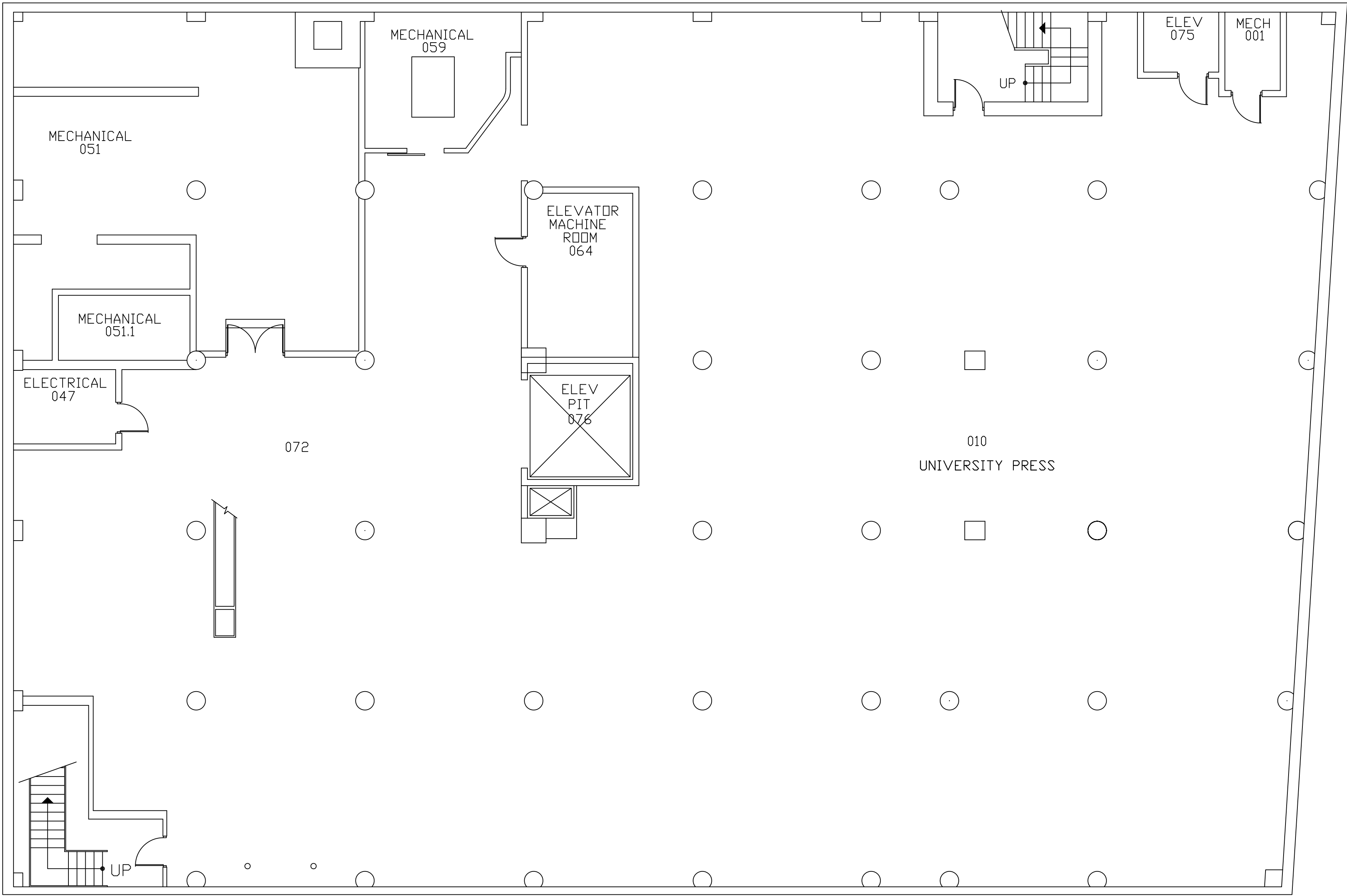
8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

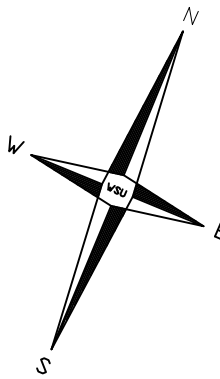
10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..



SIMONS BUILDING
BUILDING #068
BASEMENT FLOOR

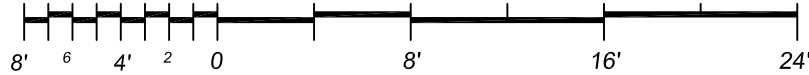


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT MAKES THESE DOCUMENTS
AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND ARE ACCURATE FOR
SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE USERS WILL HOLD HARMLESS WSU, ITS
OFFICERS, AGENTS, AND EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Basement Floor Power Plan

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



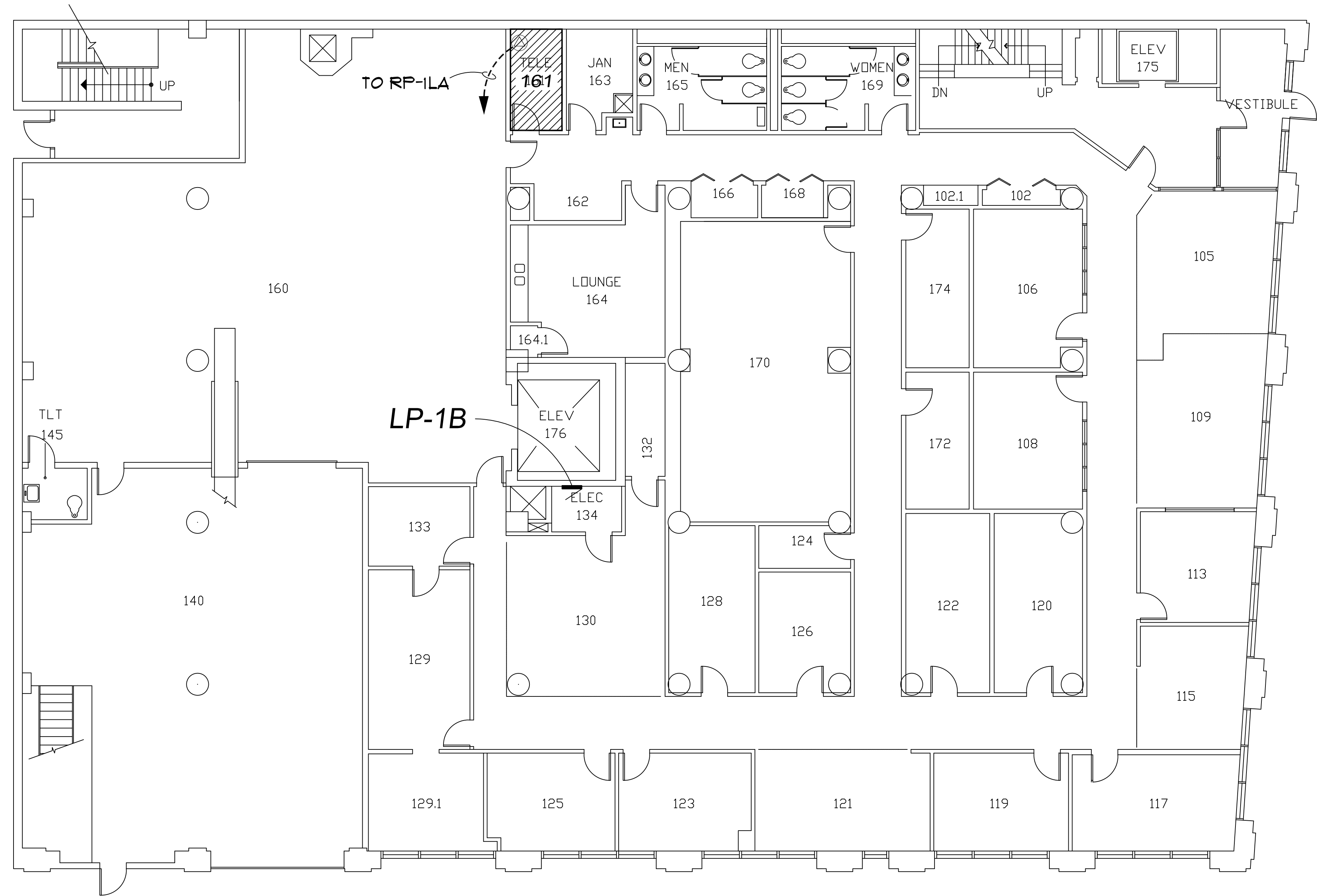
Reference Only

DATE :
November 12, 2015

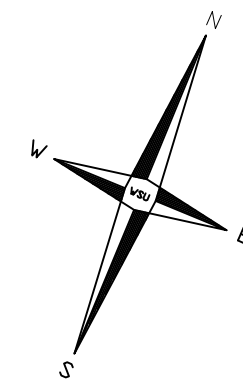
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-1



SIMONS BUILDING
BUILDING #068
FIRST FLOOR

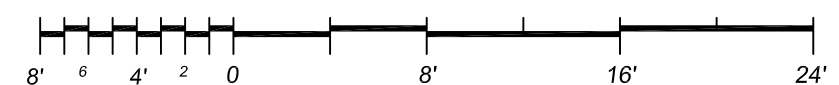


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



First Floor Power Plan

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

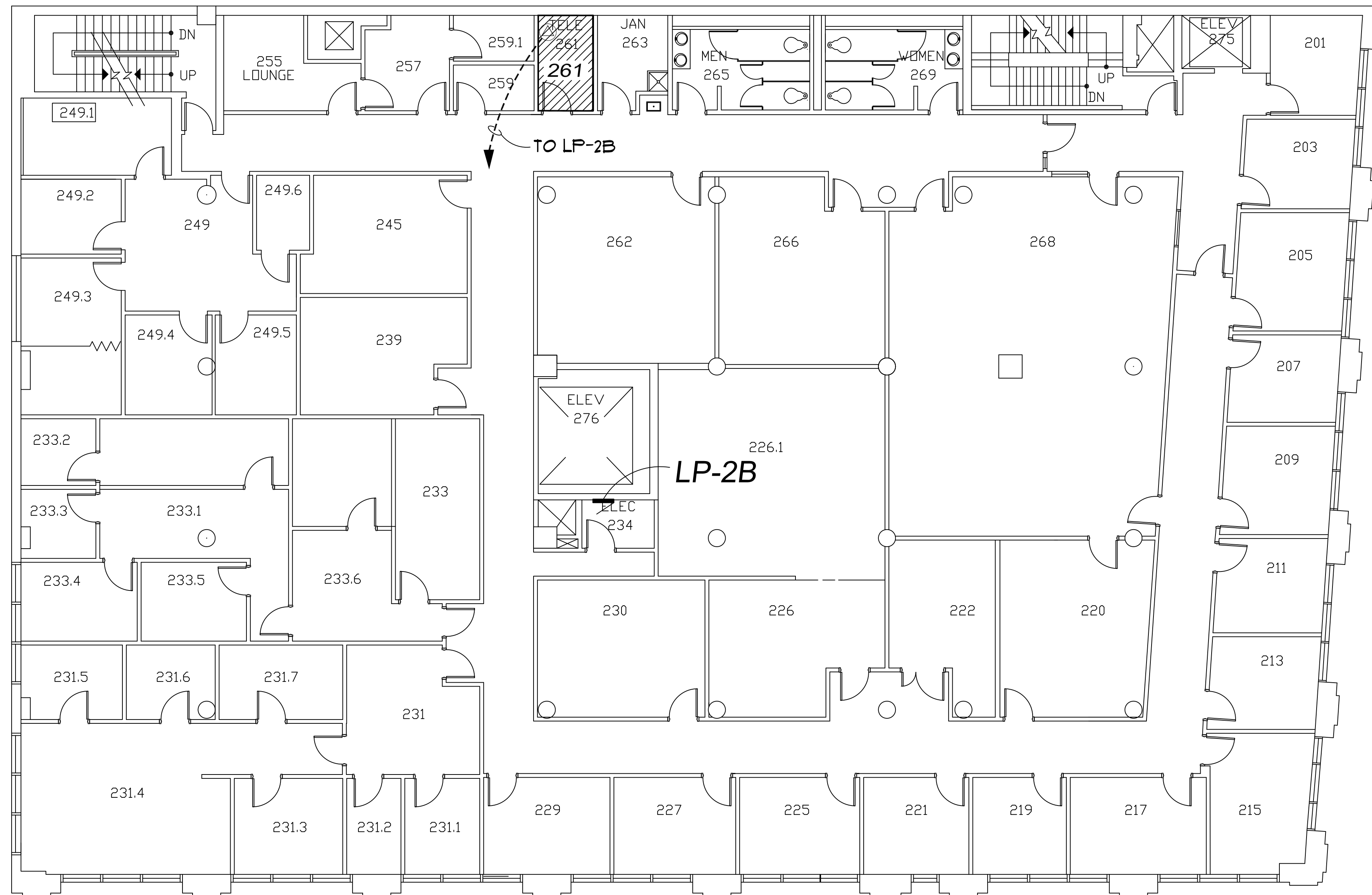


DATE :
November 12, 2015

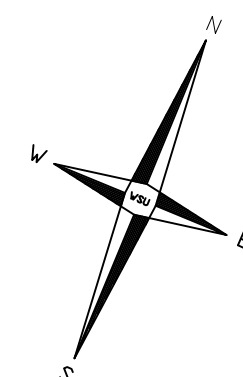
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-3



SIMONS BUILDING
BUILDING #068
SECOND FLOOR

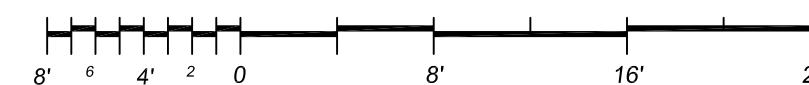


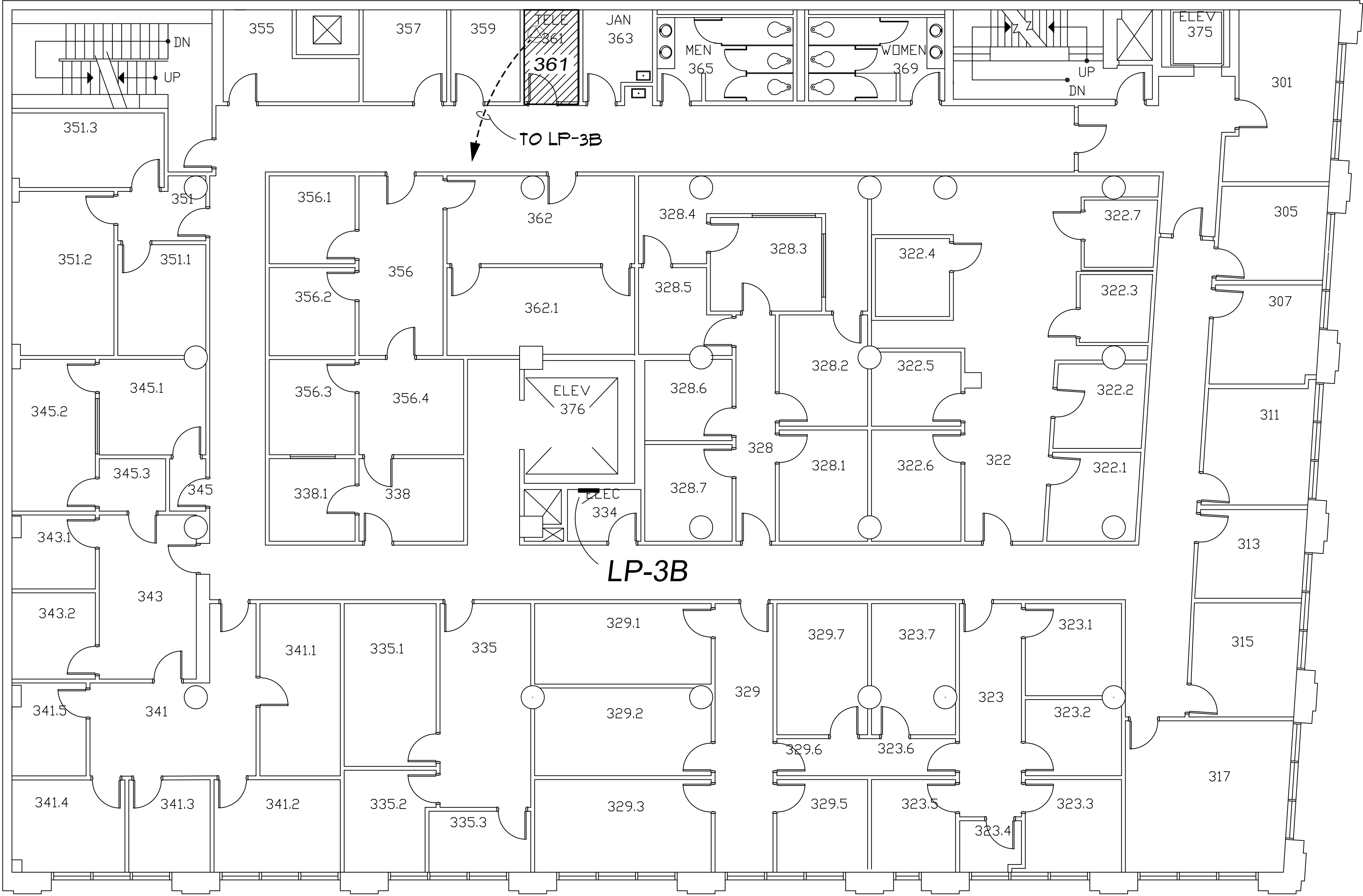
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



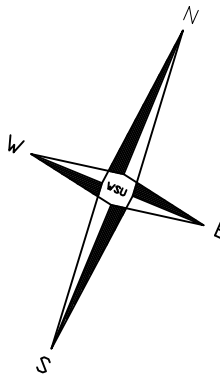
Second Floor Power Plan

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





SIMONS BUILDING
BUILDING #068
THIRD FLOOR

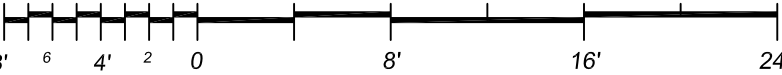


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Third Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

REVISIONS:

SHEET:

Third Floor Power Plan

068 - Simons Building
VOIP - Phase 2B

DATE:
November 12, 2015

ISSUE:

BIDS

PROJECT NUMBER

#193-248452

SHEET NO.

E-4



WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

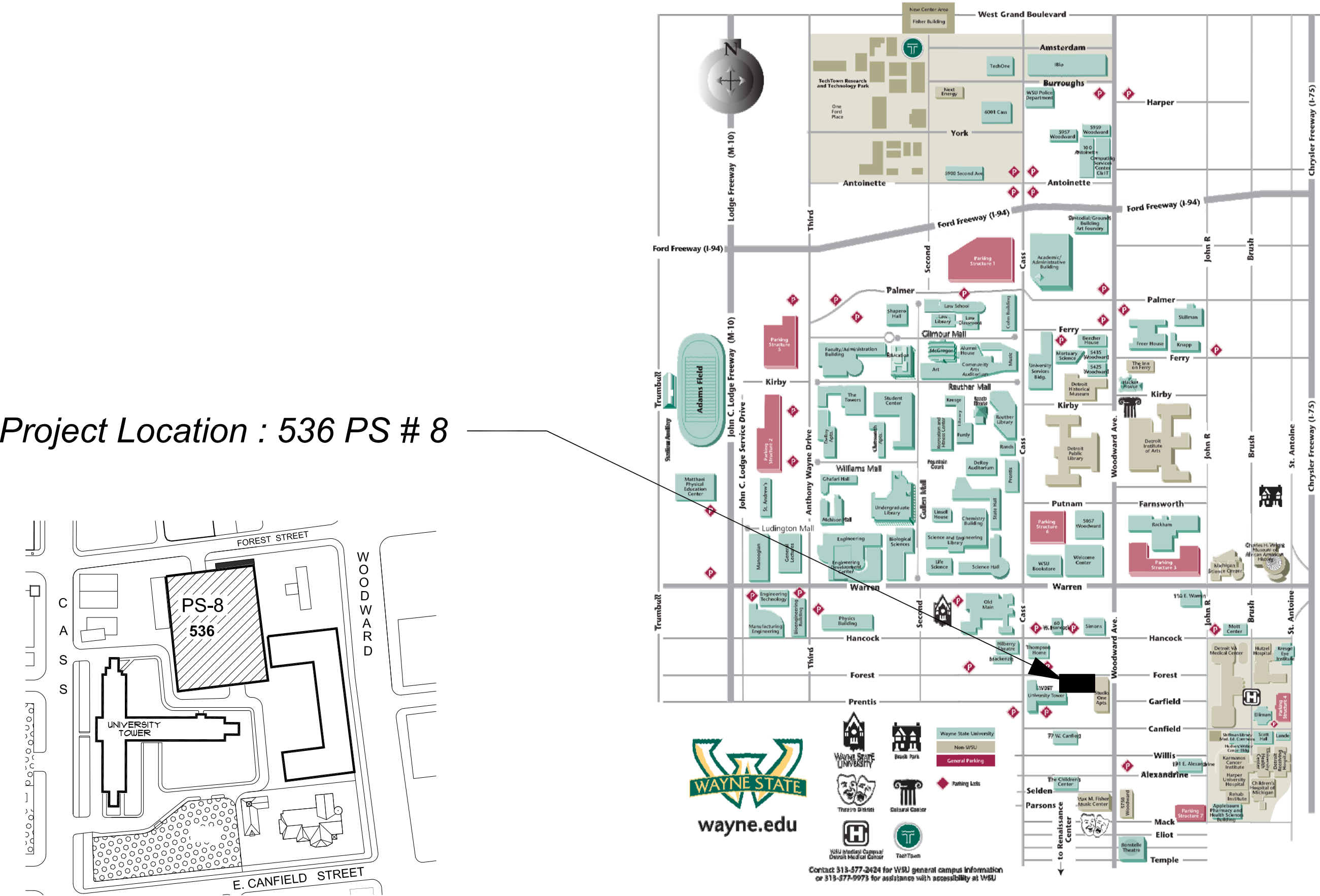
536 - Parking Structure #8

91 West Forest Avenue
Detroit, Michigan 48202

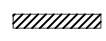
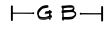
GPS : 42.35407, - 83.064166

INDEX OF DRAWINGS

SHEET #	DESCRIPTION
CVR	PROJECT COVER SHEET
E-0	ELECTRICAL STANDARDS AND NOTES
E-1	FIRST FLOOR POWER PLAN



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	PARKING STRUCTURE #8	101.1	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
ROOF	154' - 6"	TO ROOF TOP
04	131' - 4"	11' - 2"
03	126' - 0"	11' - 4"
02	114' - 8"	11' - 4"
01	100' - 0"	14' - 8"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

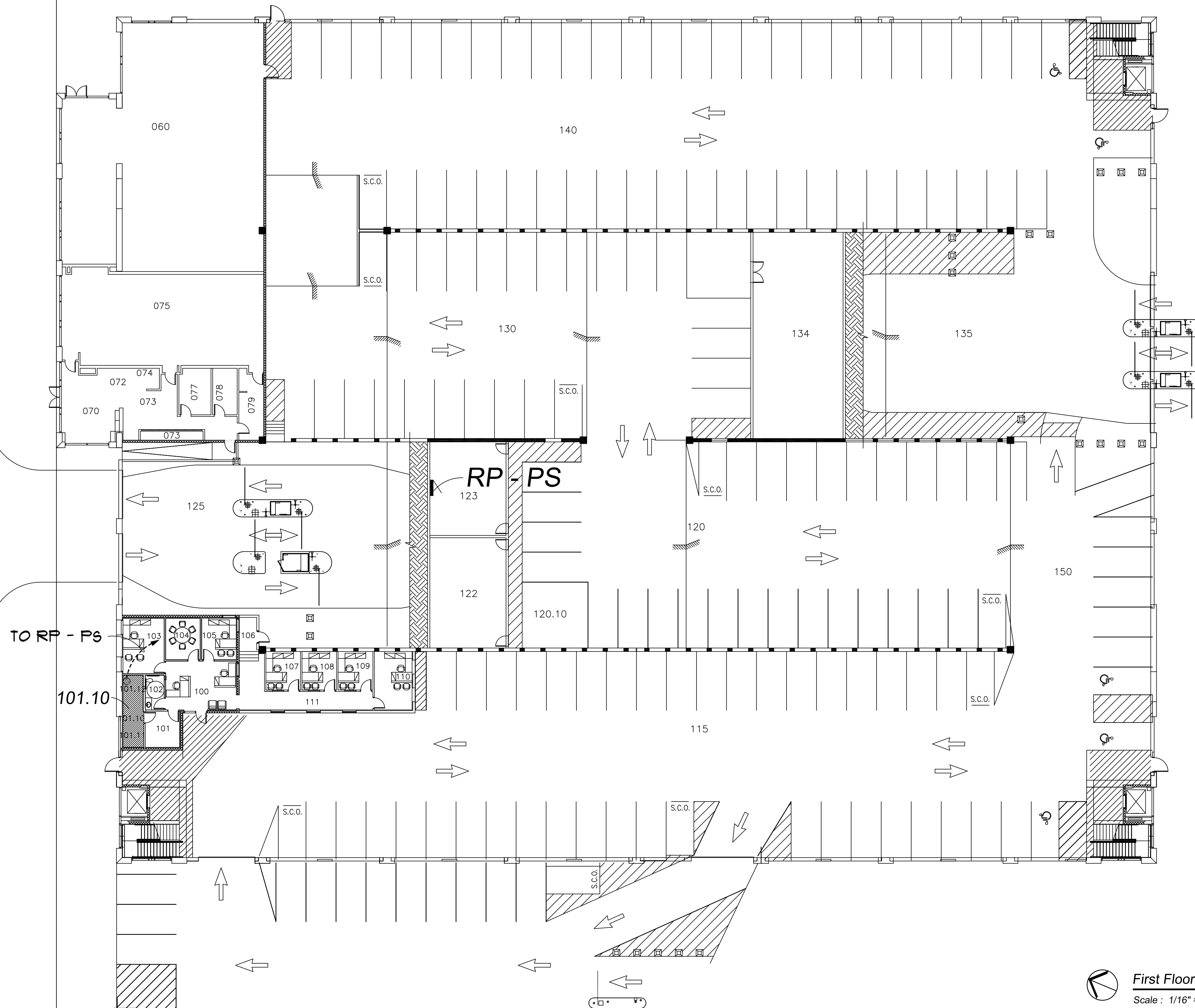
10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

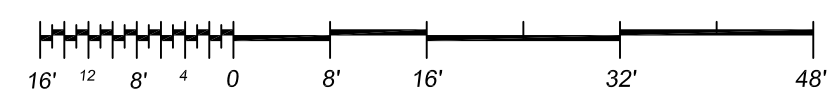
WOODWARD AVENUE

FOREST STREET



First Floor Power Plan

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





WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

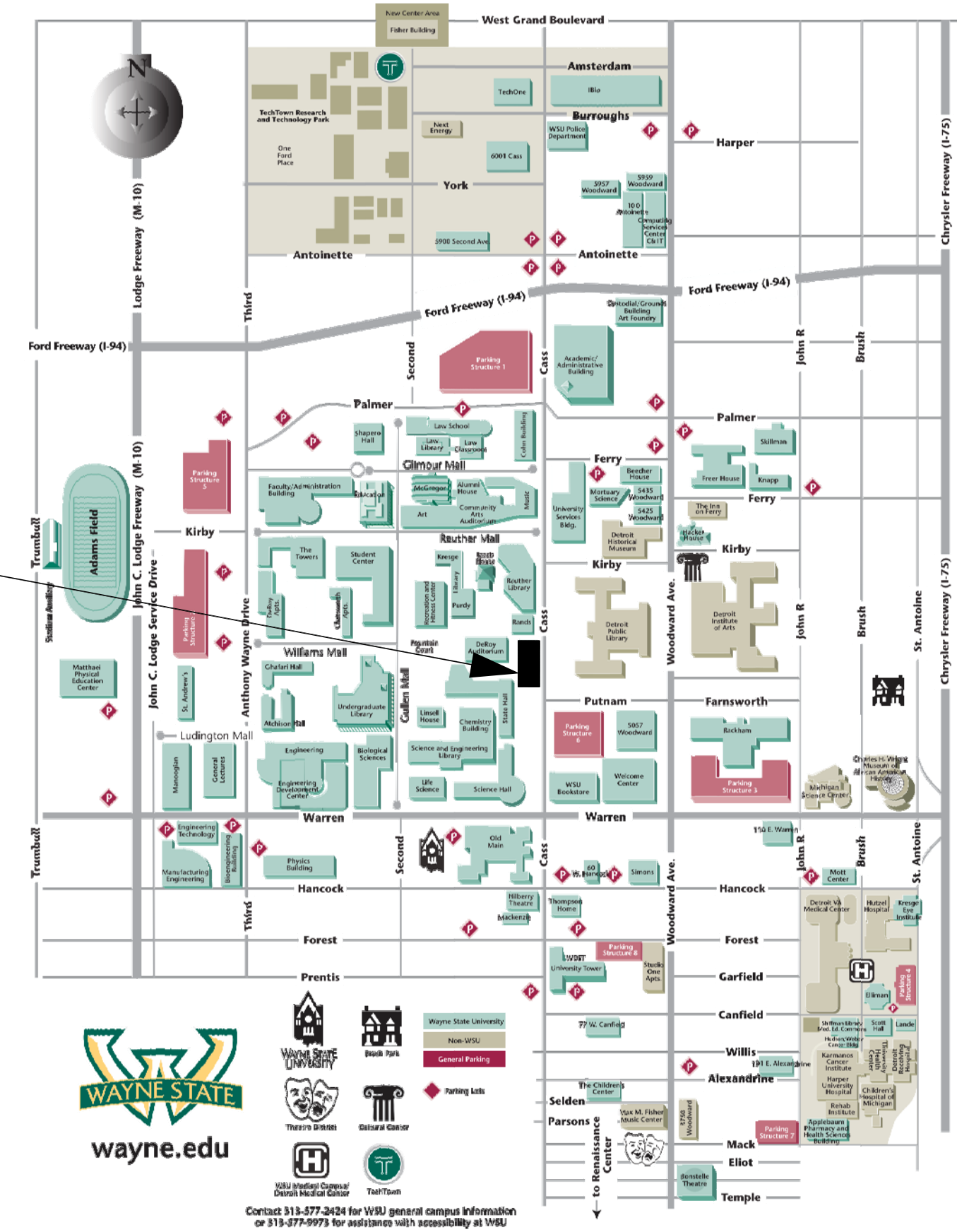
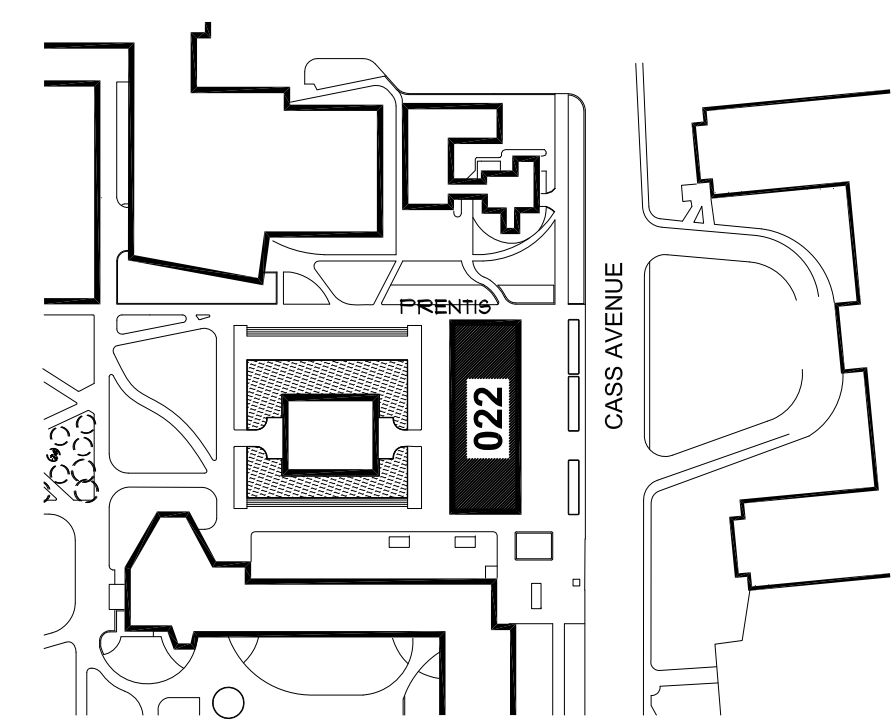
WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

022 - Prentis
5201 Cass Avenue
Detroit, Michigan 48202

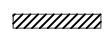
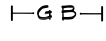
GPS : 42.3579, - 83.068075

INDEX OF DRAWINGS		
SHEET #	DESCRIPTION	
CVR	PROJECT COVER SHEET	
E-0	ELECTRICAL STANDARDS AND NOTES	
E-1	BASEMENT FLOOR POWER PLAN	- Reference Only
E-2	FIRST FLOOR POWER PLAN	- Reference Only
E-3	MEZZANINE FLOOR POWER PLAN	- Reference Only
E-4	SECOND FLOOR POWER PLAN	- Reference Only
E-5	THIRD FLOOR POWER PLAN	

Project Location : PRENTIS



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	PRENTIS BUILDING	030 303.1	YES YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
03	183' - 9"	11' - 1" - TO ROOF
02	171' - 9"	12' - 0"
MZ	160' - 2"	11' - 1"
01	151' - 3"	8' - 11"
BSMT	131' - 3"	14' - 0"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

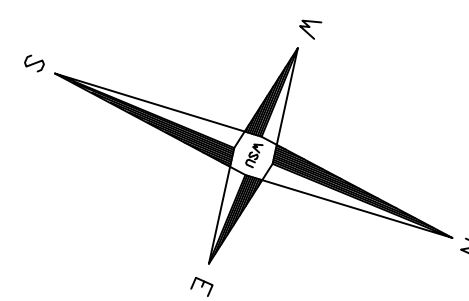
10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

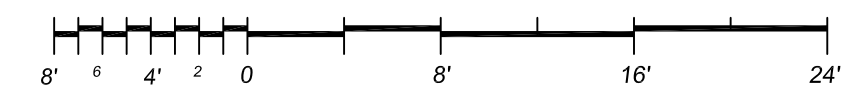


MEYER & ANNA PRENTIS BUILDING
BUILDING #022
BASEMENT FLOOR



Basement Floor Power Plan

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



WAYNE STATE
UNIVERSITY

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
022 - Prentis Building
VOIP - Phase 2B

SHEET :
Basement Floor Power Plan

DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.

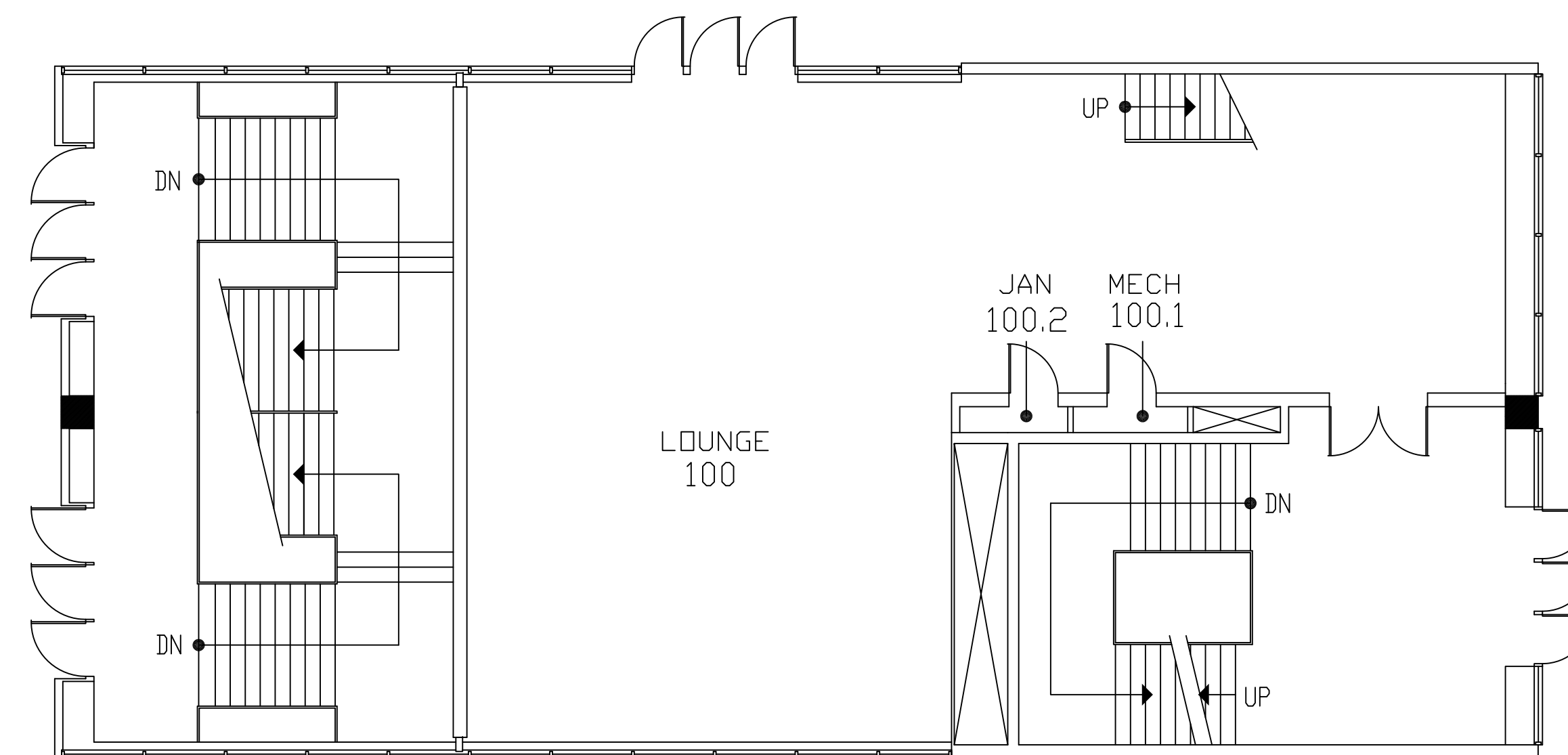
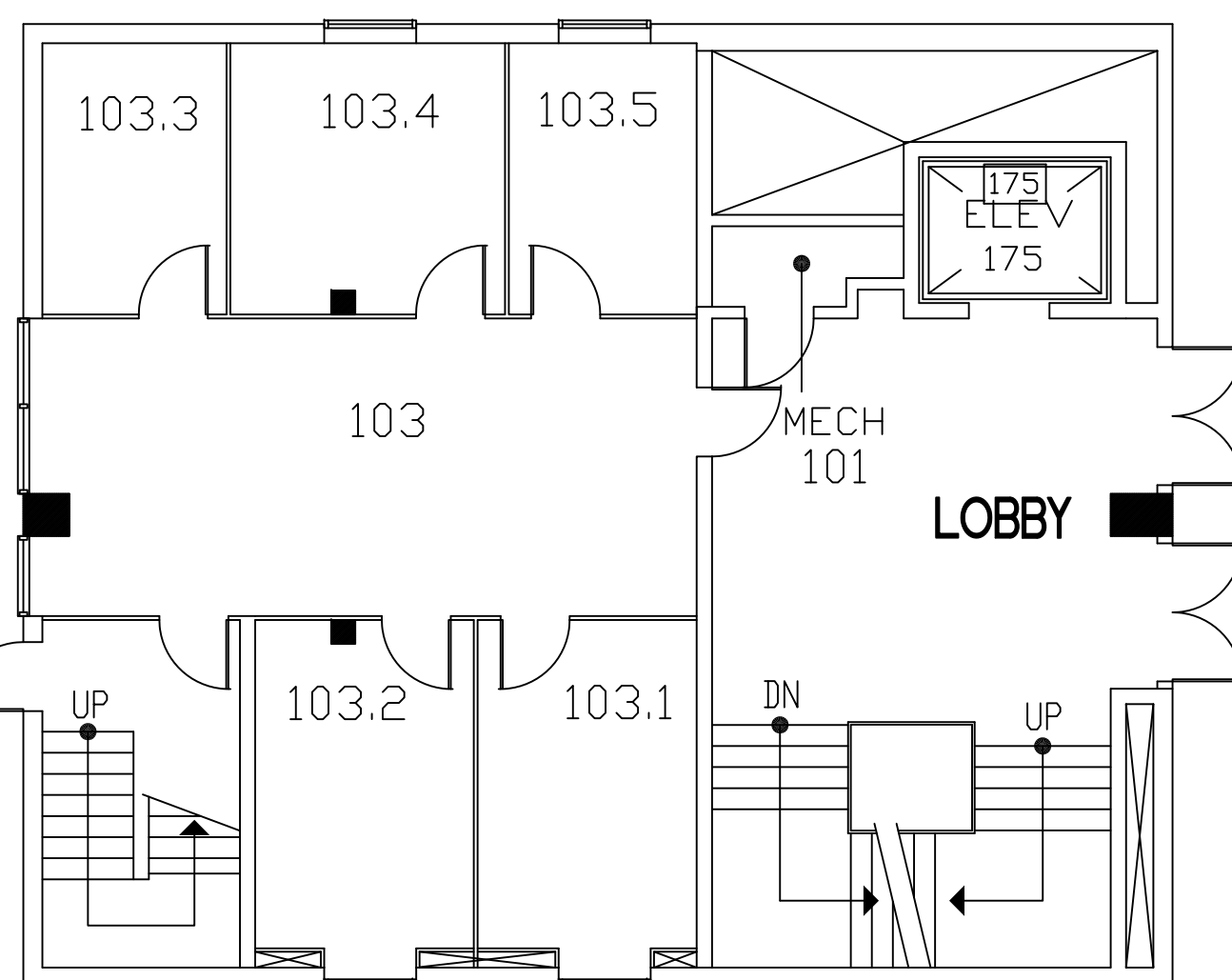
E-1

BASEMENT WALL BELOW

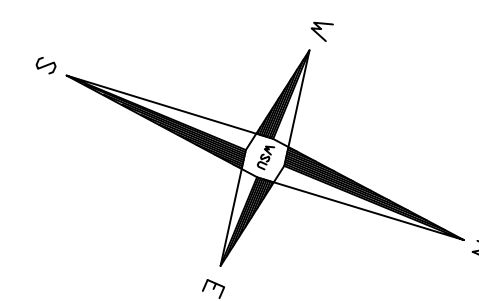
BASEMENT WALL BELOW

SECOND FLOOR ABOVE

EXTERIOR
CIRCULATION



MEYER & ANNA PRENTIS BUILDING
BUILDING #022
FIRST FLOOR



DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

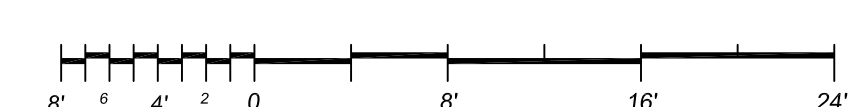
CASS AVE

Reference Only



First Floor Power Plan

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



WAYNE STATE
UNIVERSITY

REVISIONS:

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

SHEET :

First Floor Power Plan

022 - Prentis Building
VOIP - Phase 2B

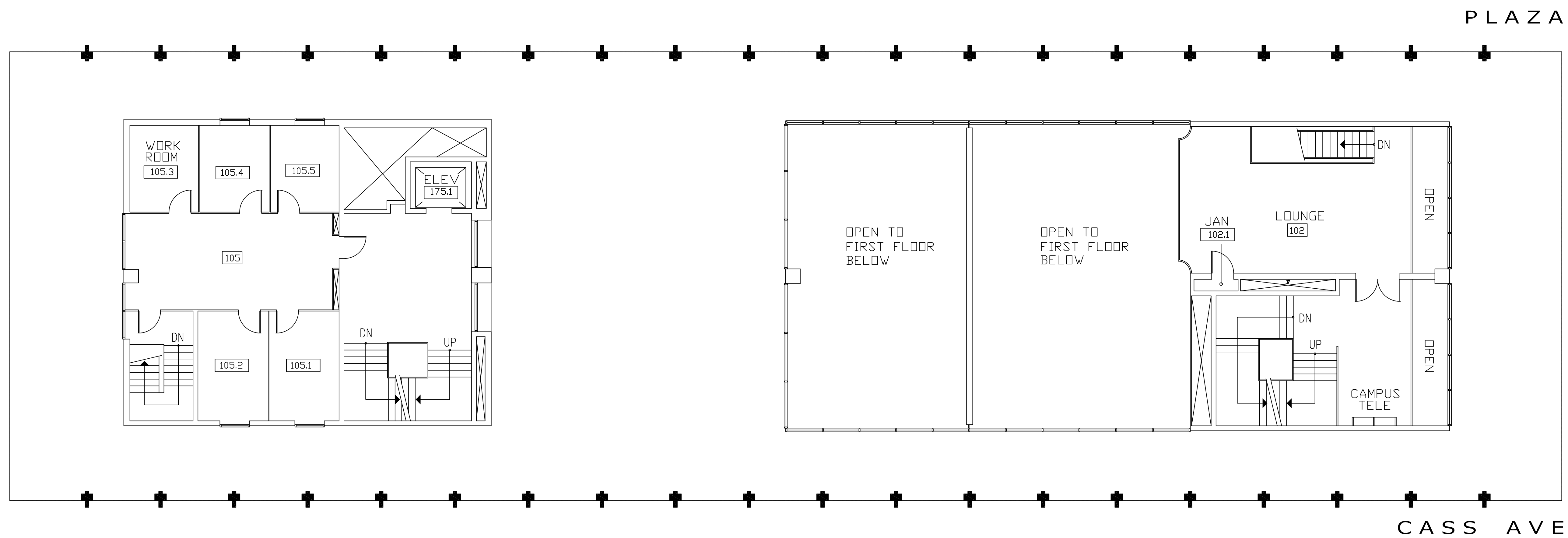
DATE :
November 12, 2015

ISSUE :
BIDS

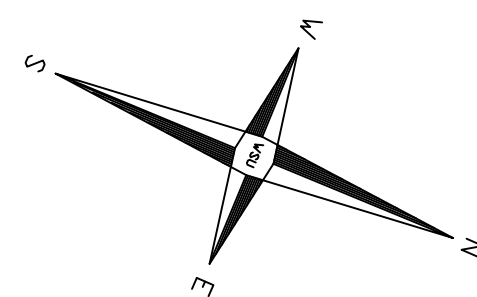
PROJECT NUMBER
#193-248452

SHEET NO.

E-2

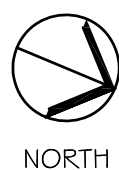


MEYER & ANNA PRENTIS BUILDING
BUILDING #022
MEZZANINE FLOOR



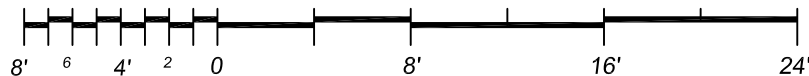
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

Reference Only



Mezzanine Floor Power Plan

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



REVISIONS:

WAYNE STATE UNIVERSITY - Facilities Planning & Management CSC TELECOM ELECTRICAL UPGRADE	MEZZANINE FLOOR POWER PLAN
PROJECT TITLE :	SHEET :
022 - Prentis Building VOIP - Phase 2B	

DATE : November 12, 2015
ISSUE : BIDS
PROJECT NUMBER #193-248452
SHEET NO. E-3

REVISIONS:

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

SHEET:

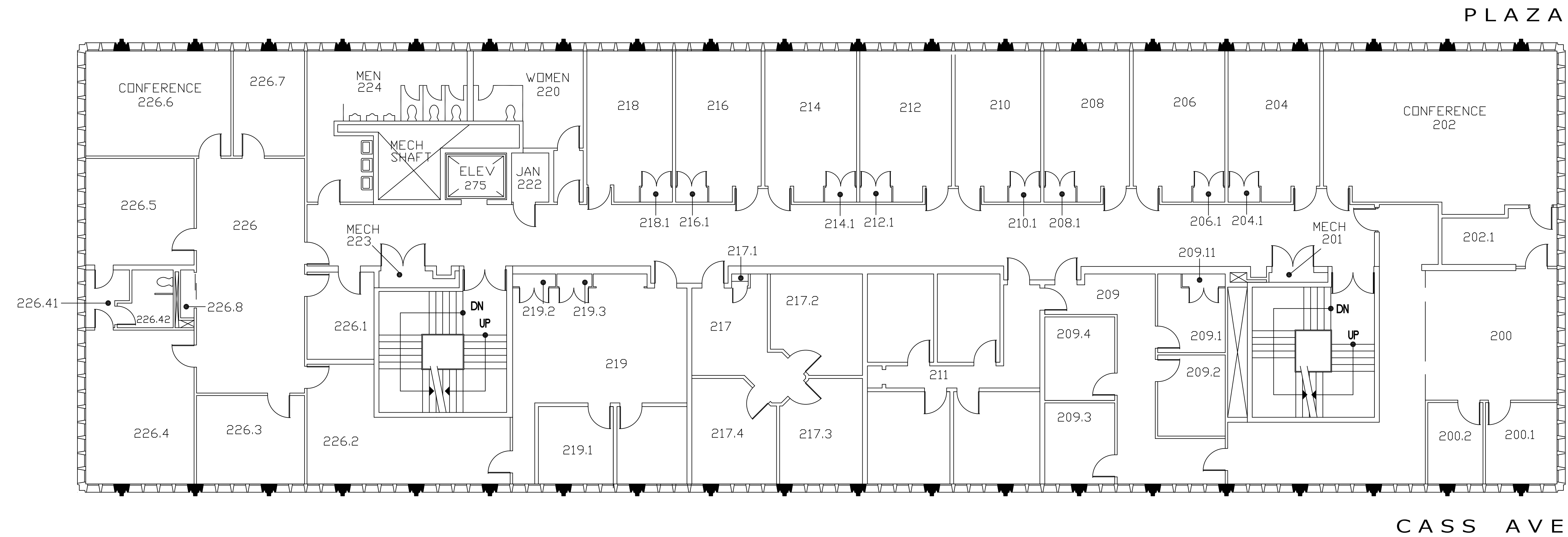
Second Floor Power Plan

022 - Prentis Building
VOIP - Phase 2B

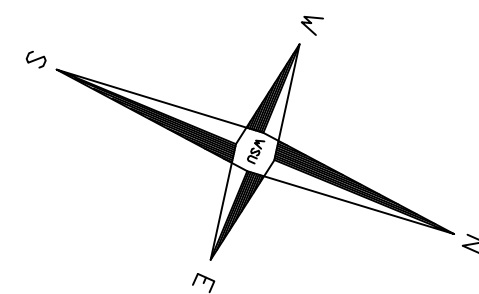
DATE:
November 12, 2015
ISSUE:
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-4



MEYER & ANNA PRENTIS BUILDING
BUILDING #022
SECOND FLOOR



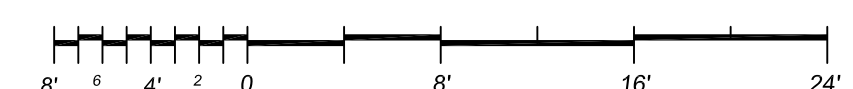
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

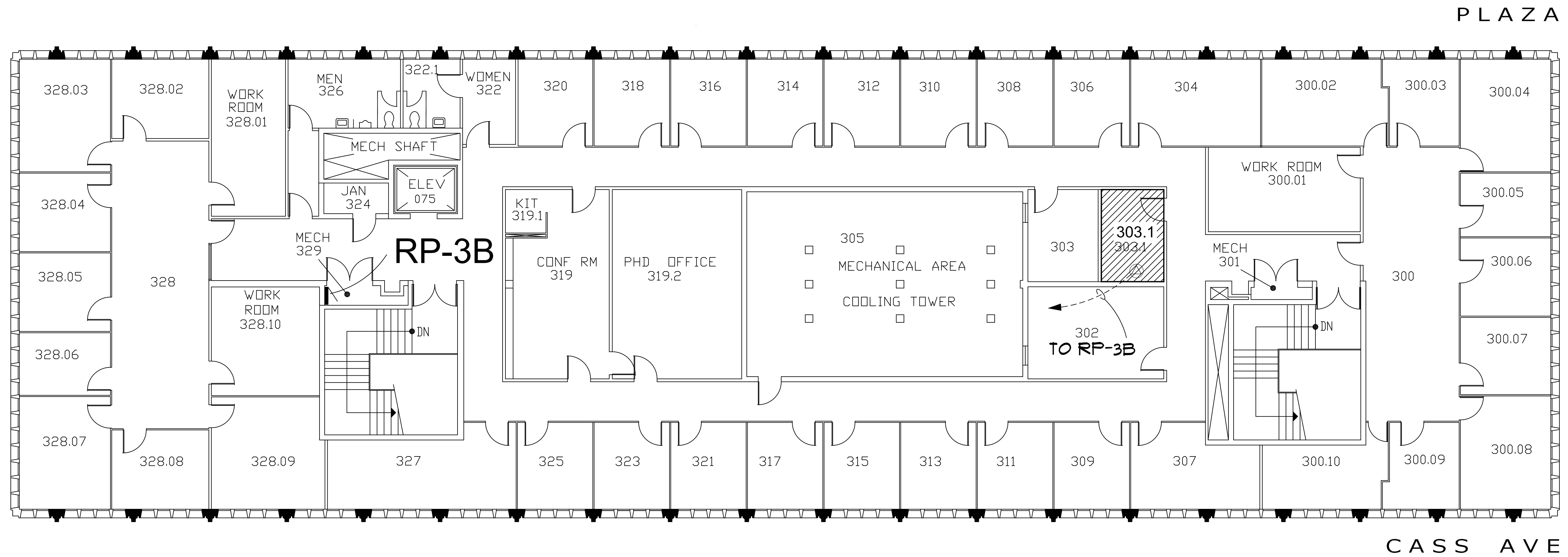
Reference Only



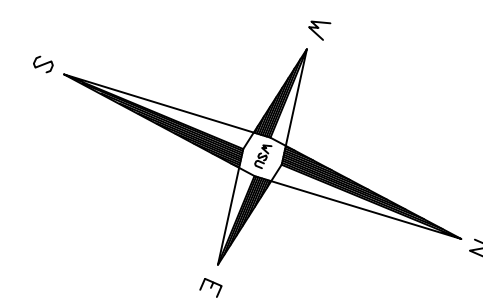
Second Floor Power Plan

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





MEYER & ANNA PRENTIS BUILDING
BUILDING #022
THIRD FLOOR

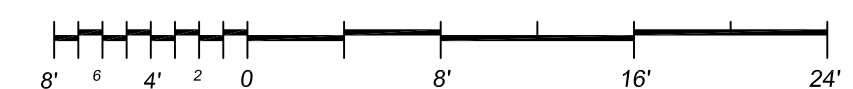


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Third Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

022 - Prentis Building
VOIP - Phase 2B

Third Floor Power Plan

DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-5



WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

003 - Physics Building

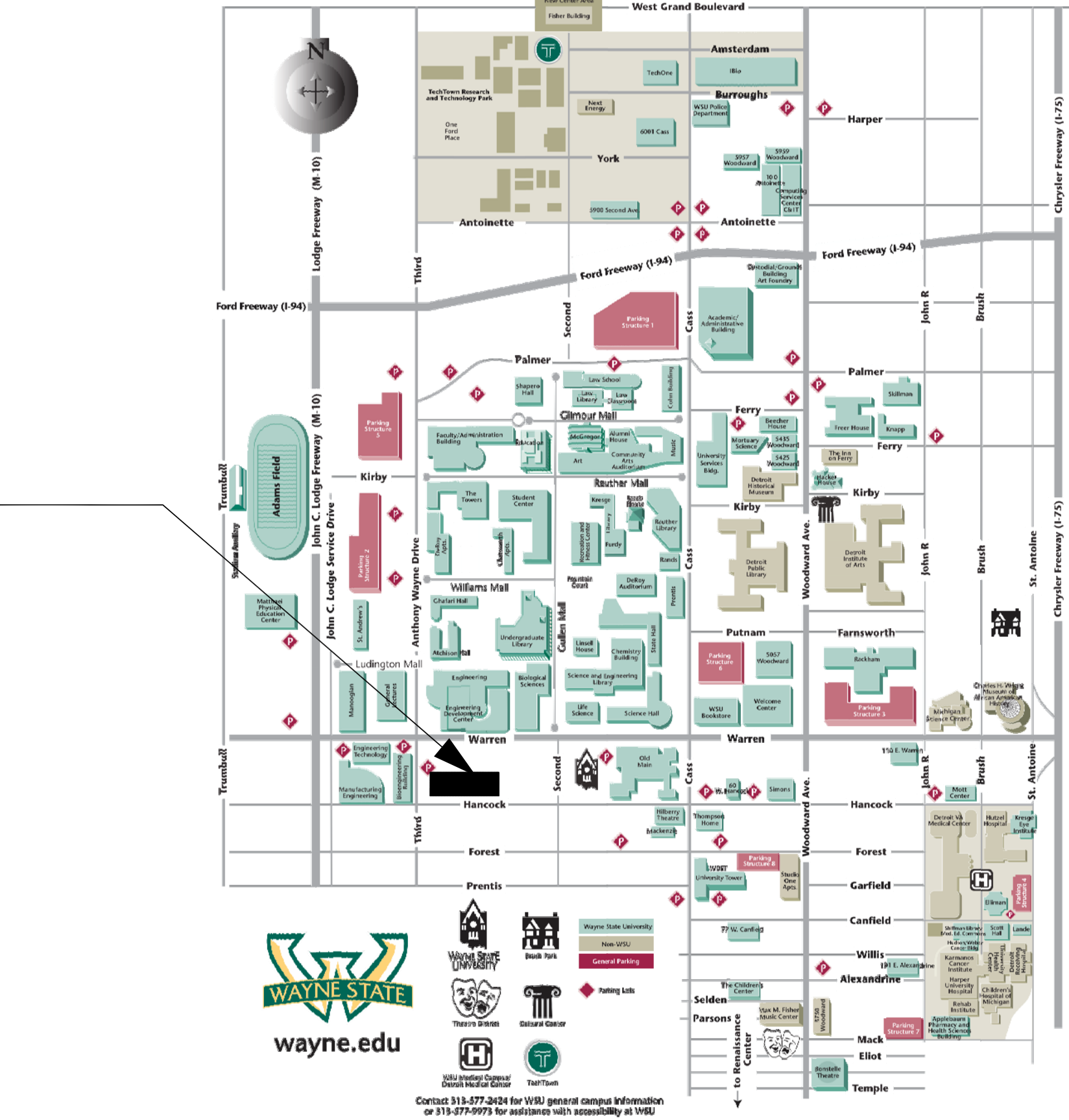
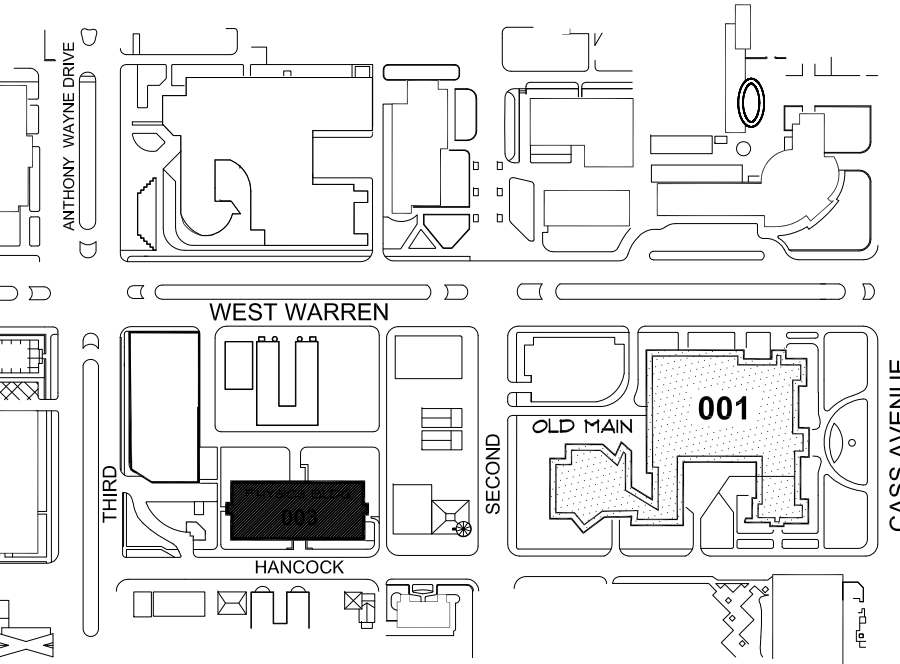
666 West Hancock Avenue
Detroit, Michigan 48202

GPS : 42.353885, - 83.069472

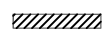
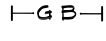
INDEX OF DRAWINGS

SHEET #	DESCRIPTION
CVR	PROJECT COVER SHEET
E-0	ELECTRICAL STANDARDS AND NOTES
E-1	BASEMENT FLOOR POWER PLAN
E-2	FIRST FLOOR POWER PLAN
E-3	SECOND FLOOR POWER PLAN
E-4	THIRD FLOOR POWER PLAN

Project Location : PHYSICS



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	PHYSICS BUILDING	033	YES	
		102, 110	YES	
		202, 210	YES	
		302, 310	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
ROOF	189' - 6" * / 192' - 4" **	2' - 10" **
03	176' - 6"	13' - 0"
02	163' - 6"	13' - 0"
01	150' - 6"	13' - 0"
BSMT	133' - 6"	17' - 0"

* TO TOP OF CONC. ROOF. ** TO TOP OF COPING

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

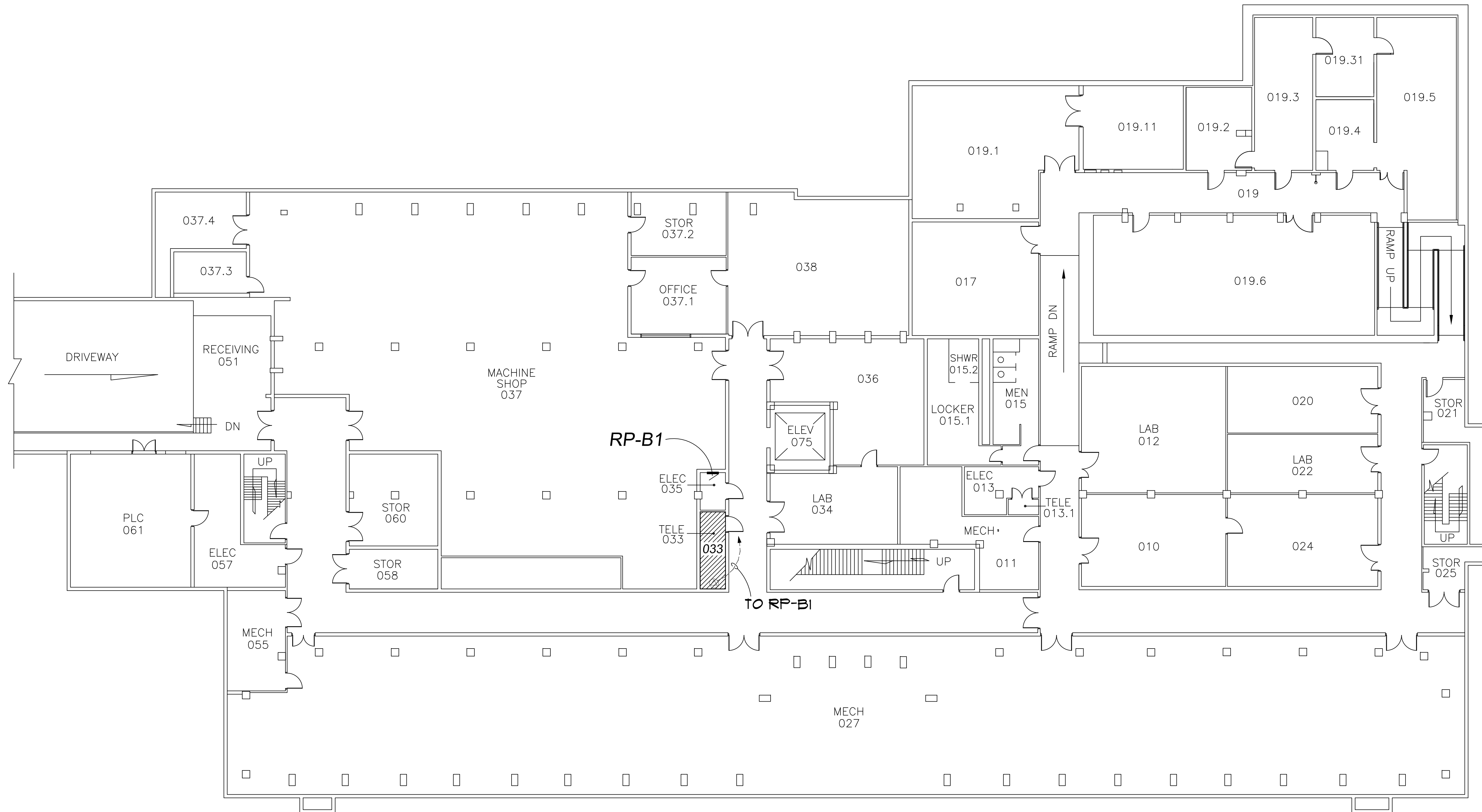
8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

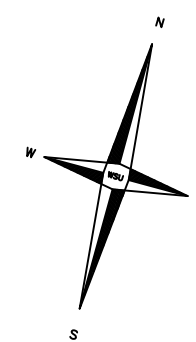
10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..



PHYSICS
BUILDING #003
BASEMENT FLOOR

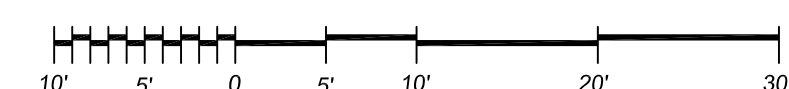


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Basement Floor Power Plan

Scale : 3/32" = 1'-0"



DATE :
November 12, 2015

ISSUE :
BIDS

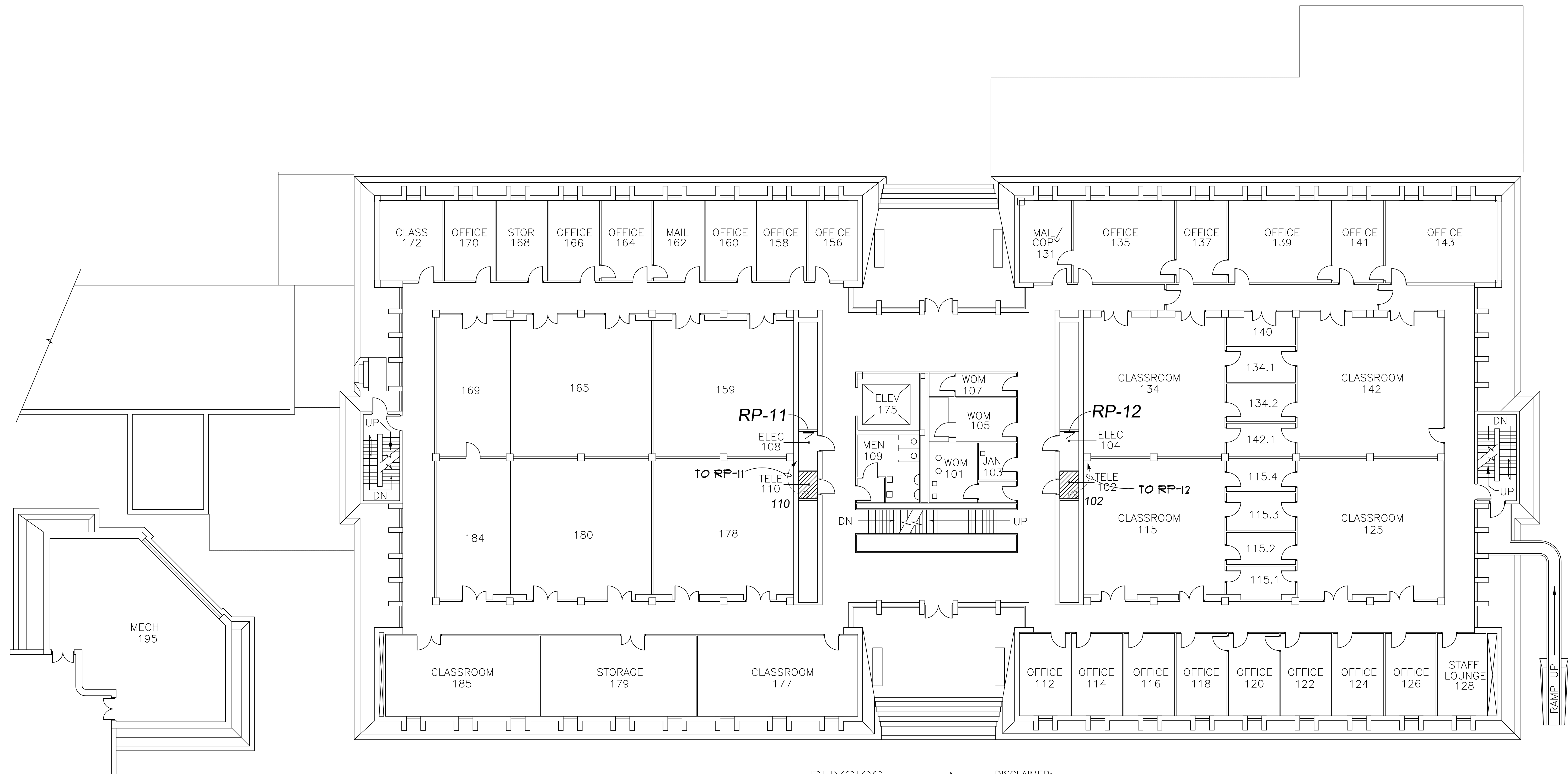
PROJECT NUMBER
#193-248452

SHEET NO.

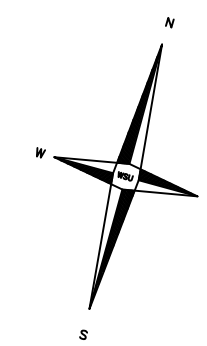
E-1

WAYNE STATE UNIVERSITY - Facilities Planning & Management	First Floor Power Plan
CSC TELECOM ELECTRICAL UPGRADE	
PROJECT TITLE :	SHEET :
003 - Physics Building	003 - Physics Building
VOIP - Phase 2B	VOIP - Phase 2B

DATE :	November 12, 2015
ISSUE :	BIDS
PROJECT NUMBER :	#193-248452
SHEET NO :	E-2



PHYSICS
BUILDING #003
FIRST FLOOR

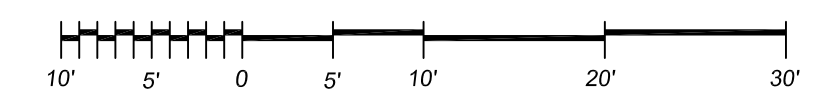


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



First Floor Power Plan

Scale : 3/32" = 1'-0"



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

Second Floor Power Plan

003 - Physics Building
VOIP - Phase 2B

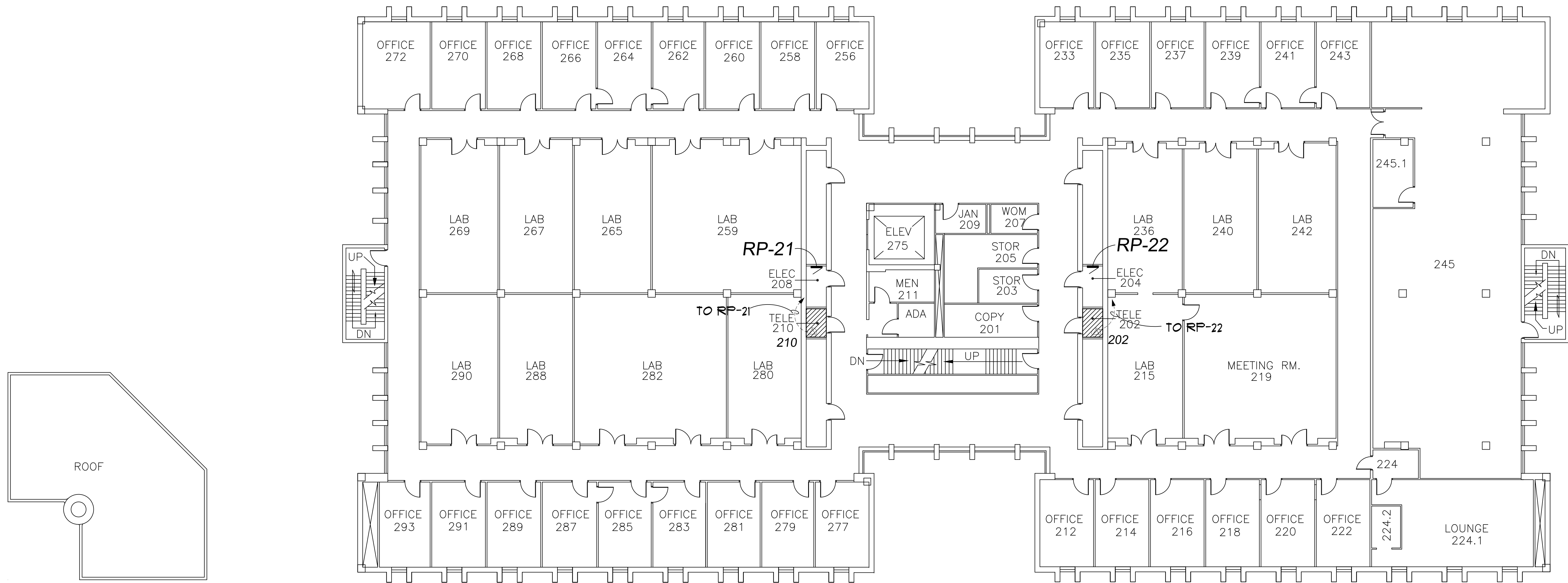
DATE :
November 12, 2015

ISSUE :
BIDS

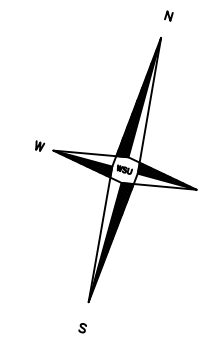
PROJECT NUMBER
#193-248452

SHEET NO.

E-3



PHYSICS
BUILDING #003
SECOND FLOOR

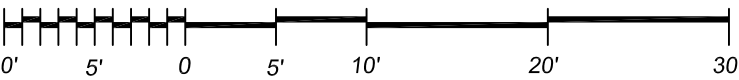


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Second Floor Power Plan

Scale : 3/32" = 1'-0"



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

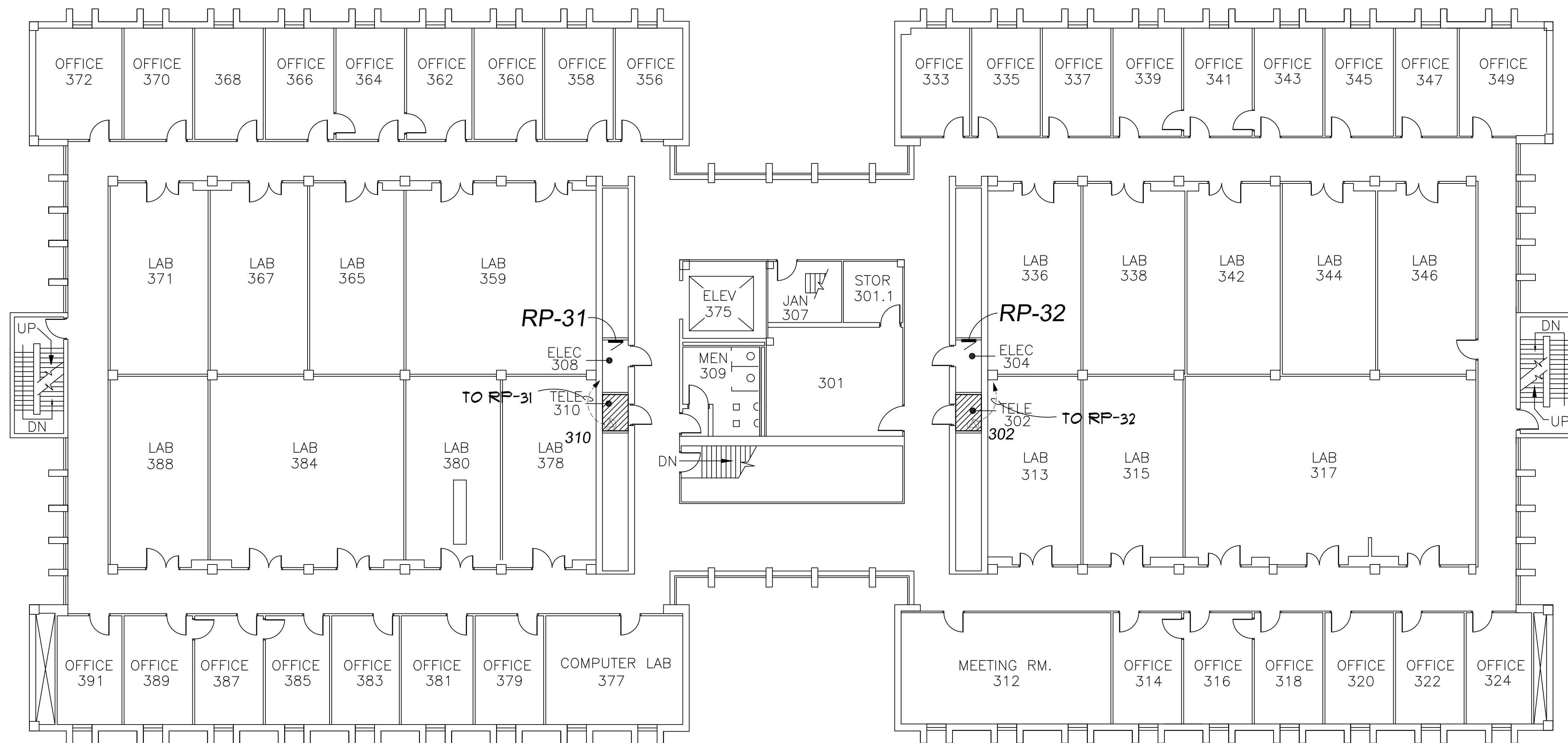
Third Floor Power Plan

003 - Physics Building
VOIP - Phase 2B

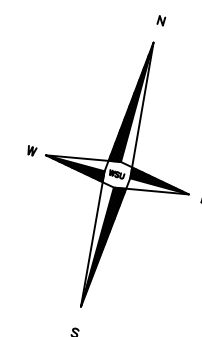
DATE :
November 12, 2015
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-4



PHYSICS
BUILDING #003
THIRD FLOOR

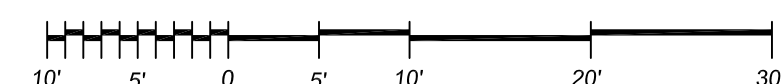


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Third Floor Power Plan

Scale : 3/32" = 1'-0"





WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

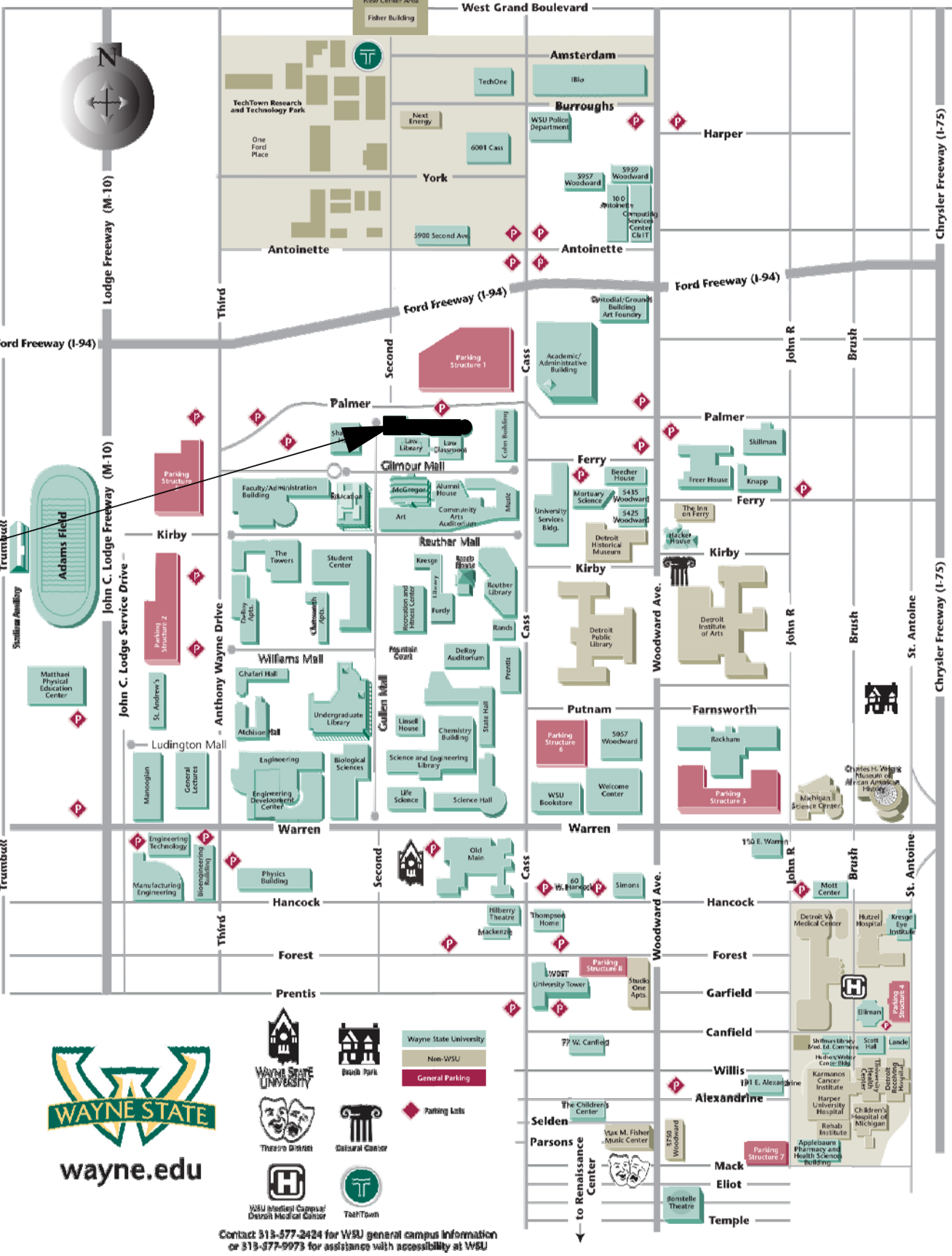
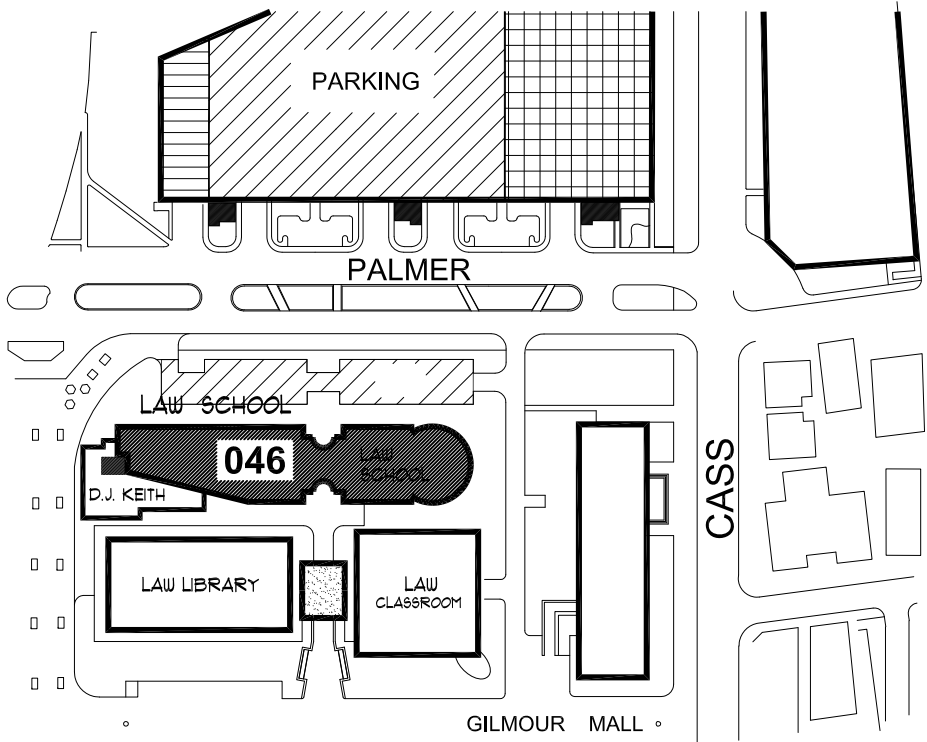
WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

049 - Law School
471 West Palmer Avenue
Detroit, Michigan 48202

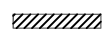
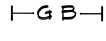
GPS : 42.360583, - 83.070905

INDEX OF DRAWINGS	
SHEET #	DESCRIPTION
CVR	PROJECT COVER SHEET
E-0	ELECTRICAL STANDARDS AND NOTES
E-1	FIRST FLOOR POWER PLAN
E-2	SECOND FLOOR POWER PLAN
E-3	THIRD FLOOR POWER PLAN

Project Location : LAW School



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	LAW SCHOOL	1269 2215 3284	YES YES YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
03	121' - 0"	14' - 0" - TO ROOF
02	113' - 8"	13' - 4"
01	99' - 0"	14' - 8"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

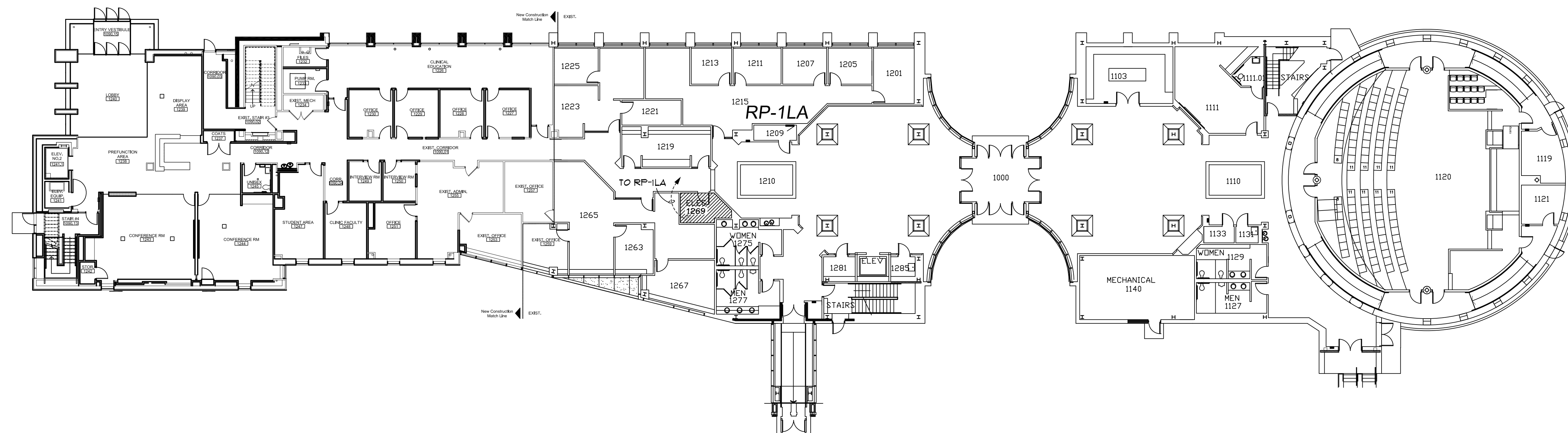
DATE :
November 12, 2015

ISSUE :
BIDS

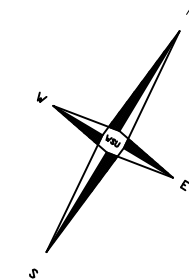
PROJECT NUMBER
#193-248452

SHEET NO.

E-0



LAW SCHOOL
DAMON J. KEITH CENTER FOR CIVIL RIGHTS
BUILDING #049
FIRST FLOOR

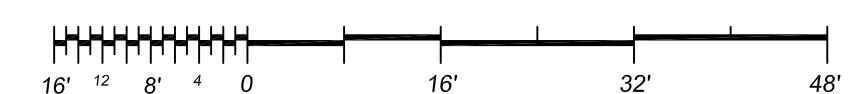


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK
AND ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE.
THE USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS,
AND EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



First Floor Power Plan

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



WAYNE STATE
UNIVERSITY

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
049 - Law School
VOIP - Phase 2B

SHEET :
First Floor Power Plan

DATE :
November 12, 2015
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-1

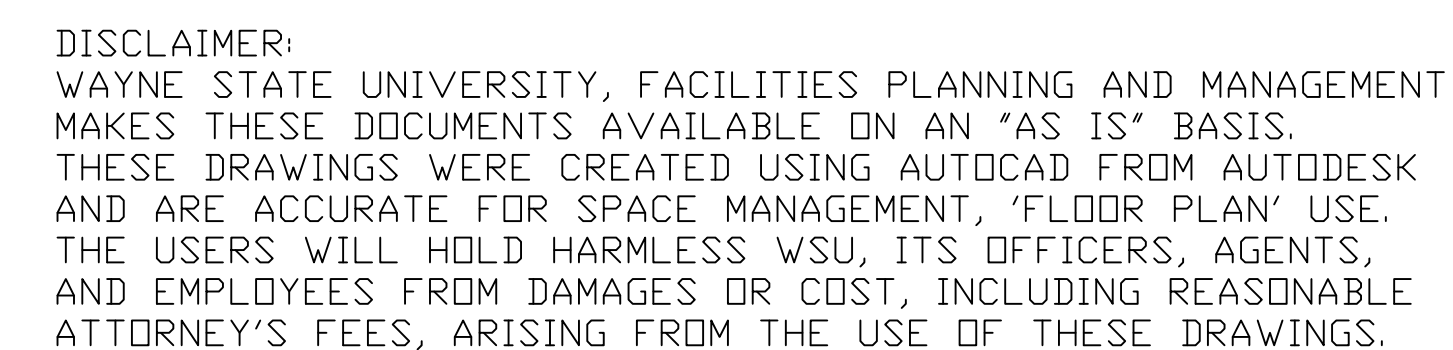


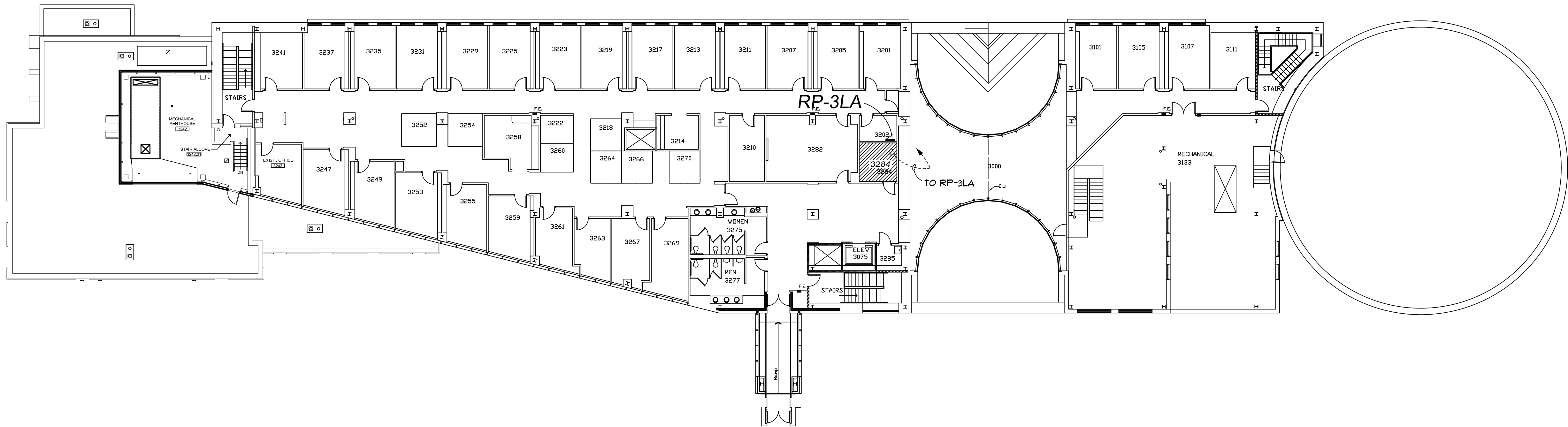
SHEET :

PROJECT TITLE :

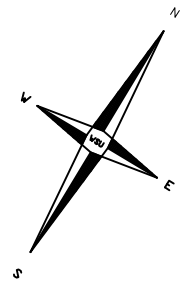
SHEET NO.

NORTH





LAW SCHOOL
DAMON J. KEITH CENTER FOR CIVIL RIGHTS
BUILDING #049
THIRD FLOOR

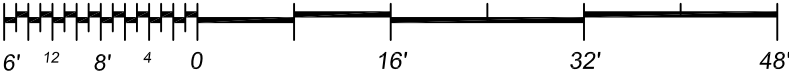


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK
AND ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE.
THE USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS,
AND EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Third Floor Power Plan

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



WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

049 - Law School
VOIP - Phase 2B

Third Floor Power Plan

DATE :
November 12, 2015
ISSUE :
BIDS

PROJECT NUMBER
#193-248452

SHEET NO.
E-3

REVISIONS:

WAYNE STATE
UNIVERSITY



WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

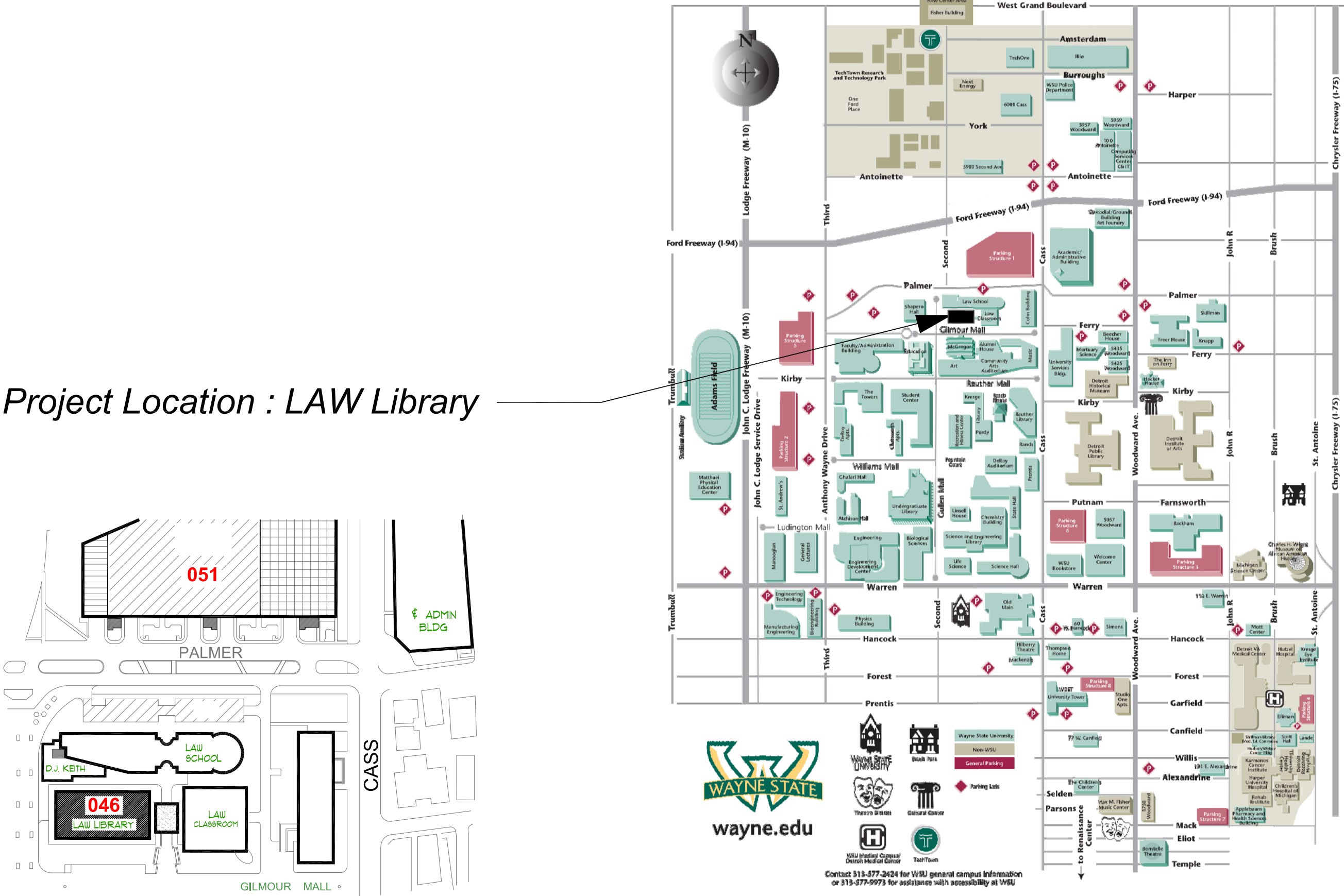
VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD,
003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

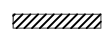
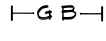
046 - Law Library
474 Gilmour Mall
Detroit, Michigan 48202

GPS : 42.360131, - 83.0711

INDEX OF DRAWINGS	
SHEET #	DESCRIPTION
CVR	PROJECT COVER SHEET
E-0	ELECTRICAL STANDARDS AND NOTES
E-1	BASEMENT FLOOR POWER PLAN
E-2	FIRST FLOOR POWER PLAN
E-3	SECOND FLOOR POWER PLAN
E-4	THIRD FLOOR POWER PLAN



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	LAW LIBRARY	311	YES	
		1326	YES	
		2328	YES	
		3328	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
03	.	11' - 8" - TO ROOF
02	.	11' - 9 1/2"
01	.	13' - 1 1/2"
BSMT	.	13' - 1 1/2"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

DATE :
November 12, 2015

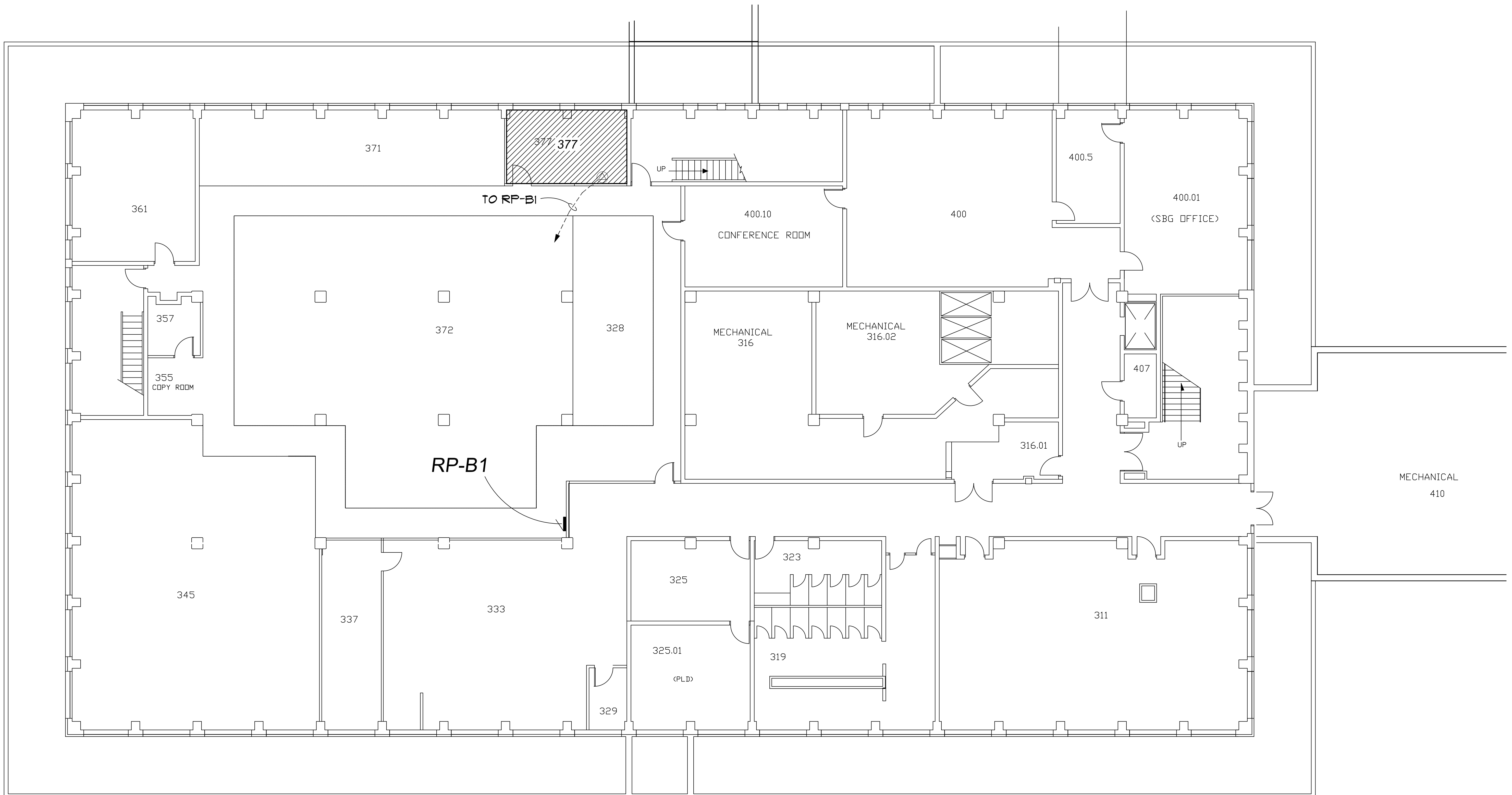
ISSUE :

BIDS

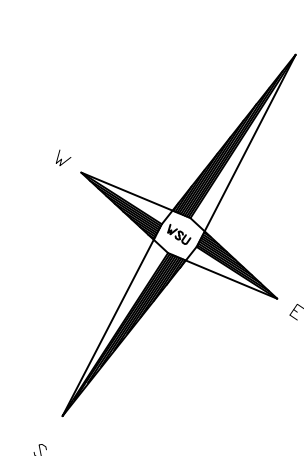
PROJECT NUMBER
#193-248452

SHEET NO.

E-O



LAW LIBRARY
BUILDING #046
BASEMENT FLOOR PLAN

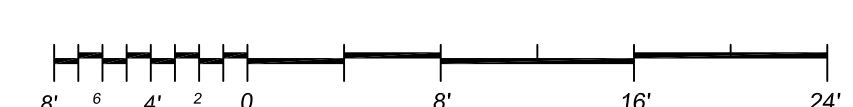


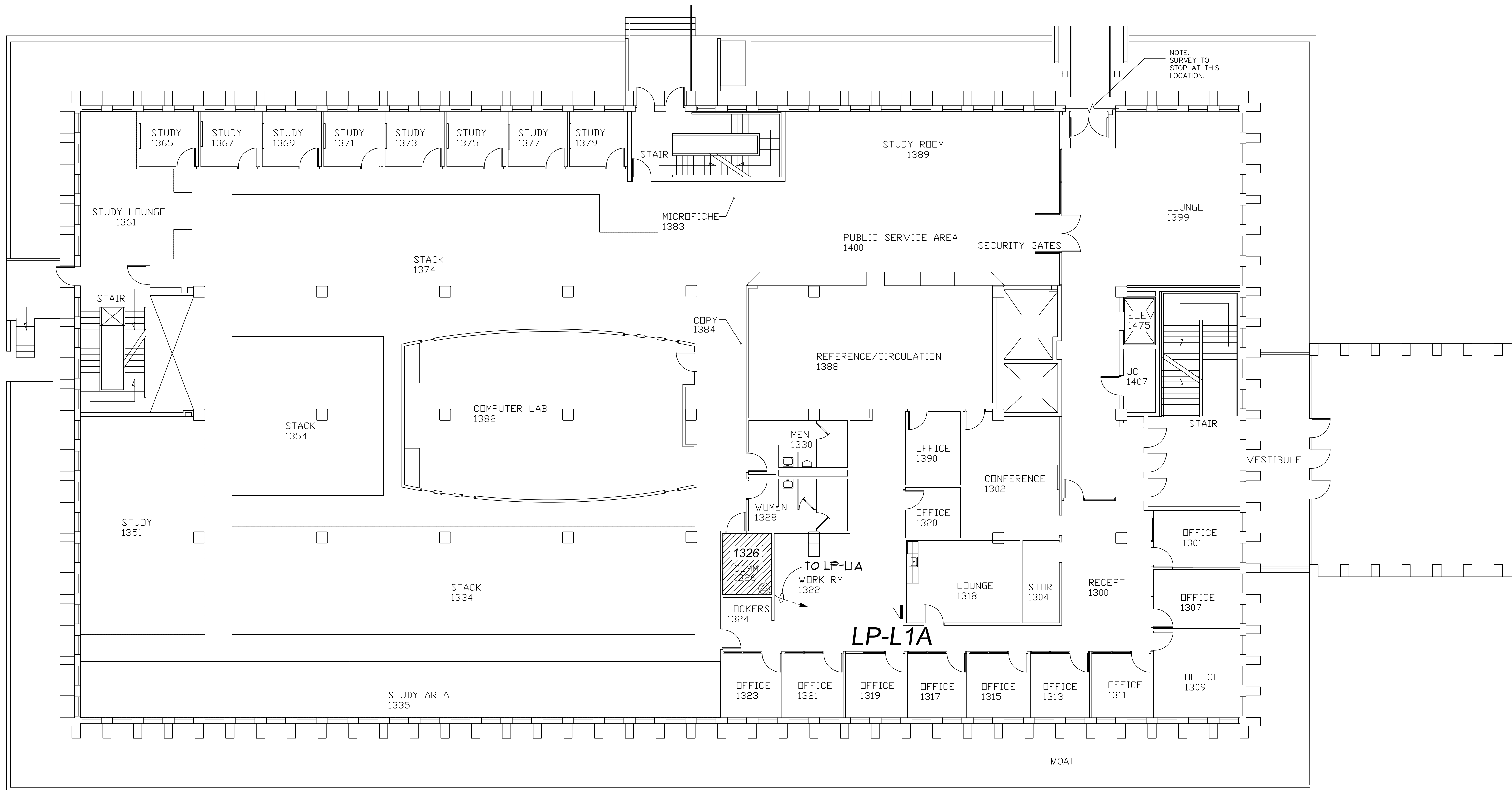
DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



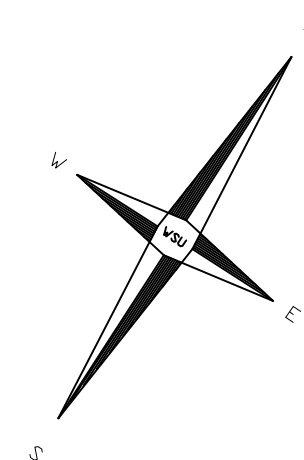
Basement Floor Power Plan

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





LAW LIBRARY
BUILDING #046
FIRST FLOOR PLAN

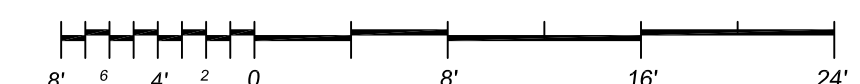


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



First Floor Power Plan

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



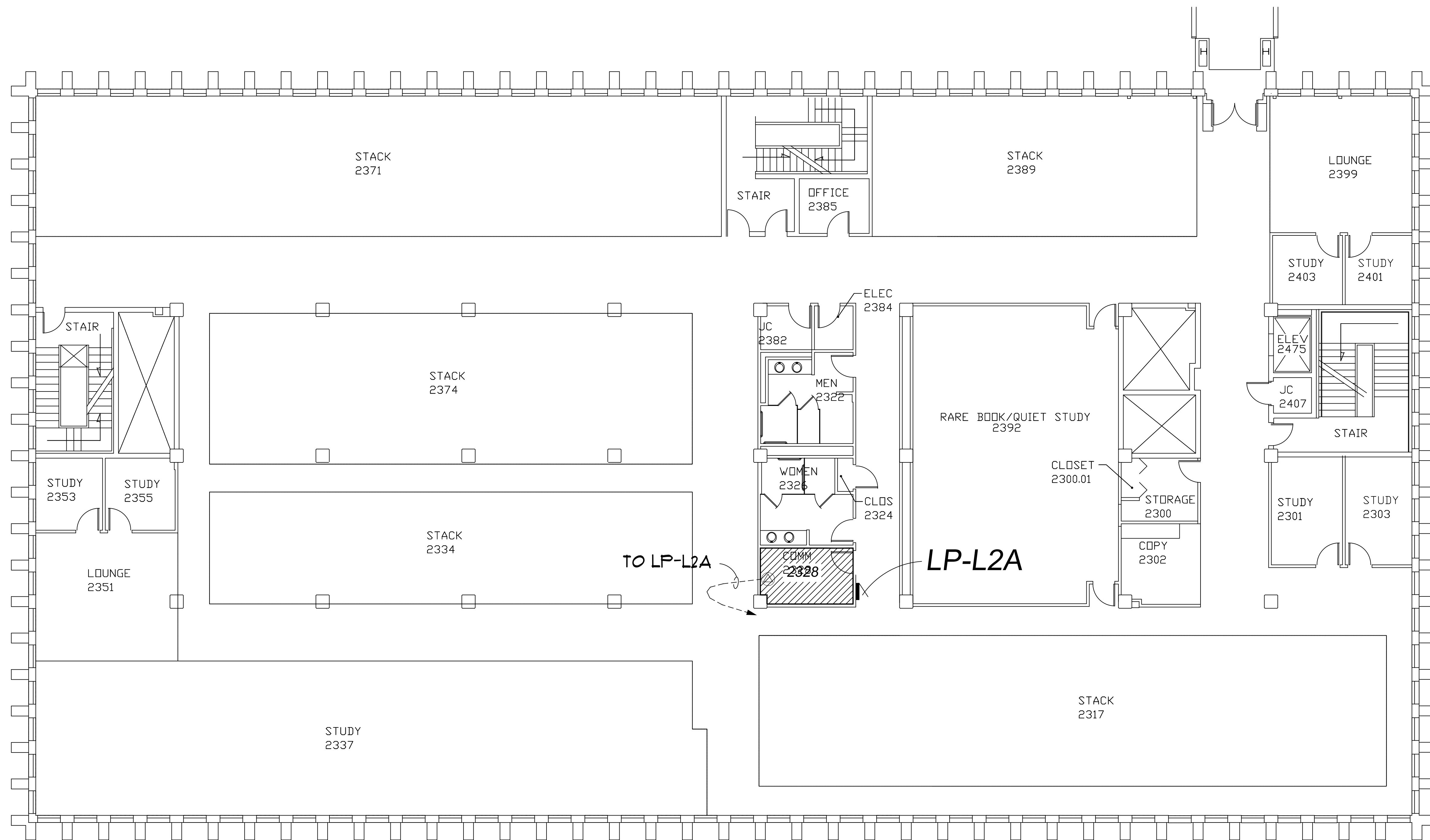
DATE :
November 12, 2015

ISSUE :
BIDS

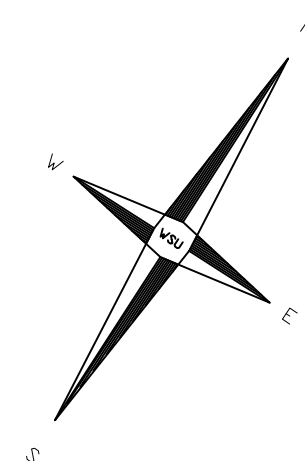
PROJECT NUMBER
#193-248452

SHEET NO.

E-2



LAW LIBRARY
BUILDING #046
SECOND FLOOR PLAN

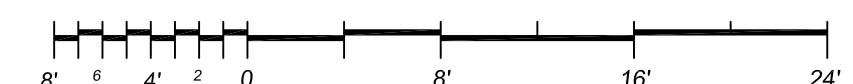


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Second Floor Power Plan

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



REVISIONS:

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

PROJECT TITLE :
046 - Law Library
VOIP - Phase 2B

SHEET :
Second Floor Power Plan

DATE :
November 12, 2015

ISSUE :
BIDS

PROJECT NUMBER
#193-248452

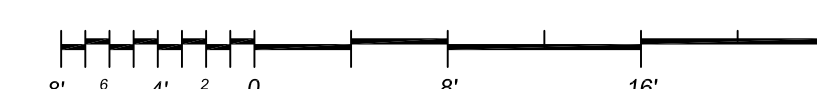
SHEET NO.

E-3



NORTH

Scale : $1/8" = 1'-0"$





WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

CSC TELECOM ELECTRICAL UPGRADE

VOIP - Phase 2B Includes : 022 Prentis, 046 Law Library, 049 Law School , 203 6050 Cass WSU-PD, 003 Physics, 067 5425 Woodward, 068 Simons, 127 Towers Residence Hall, 536 Parking Structure # 8 (Forest Ave.)

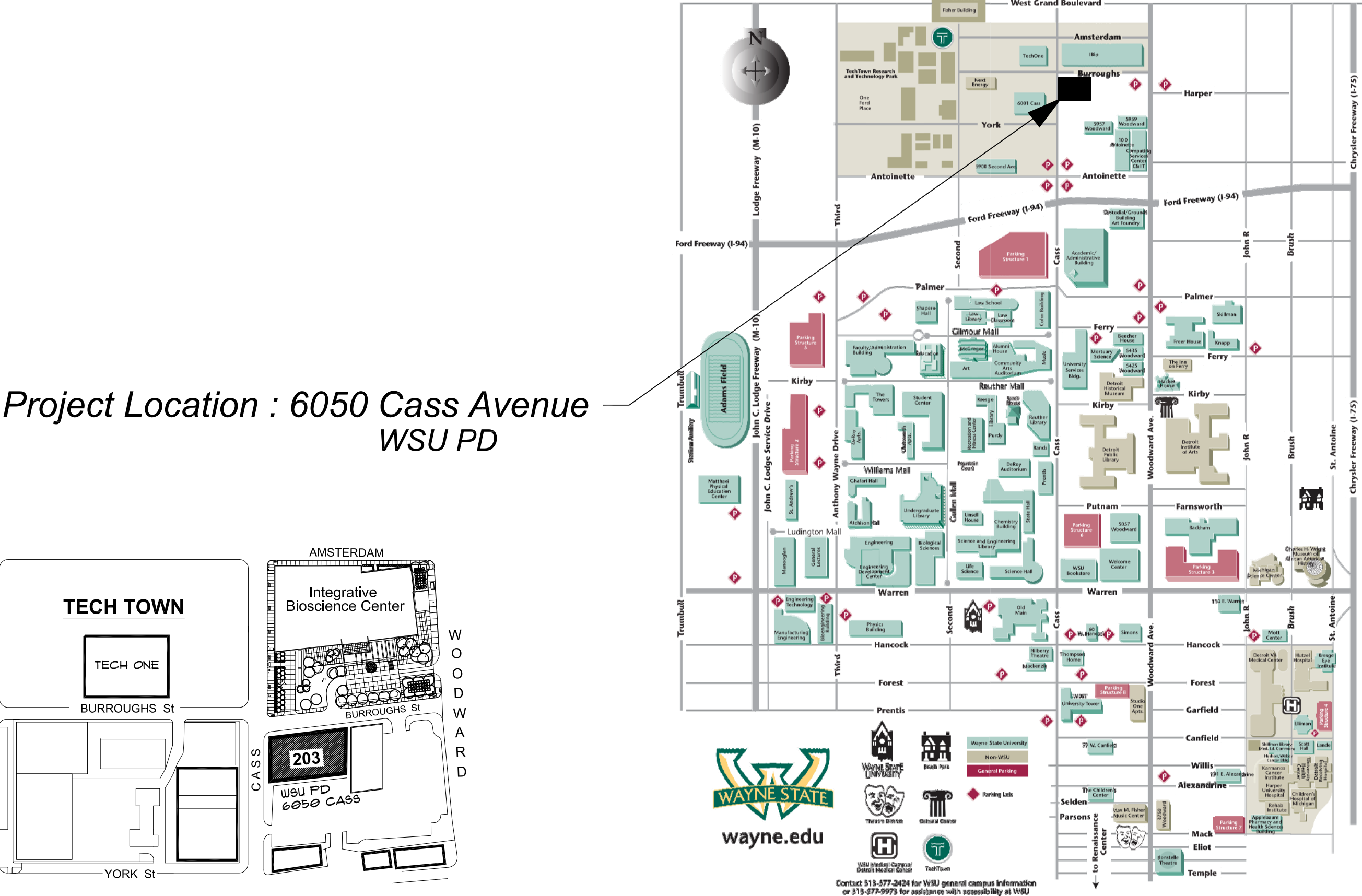
WSU PROJECT NO. 193 - 2 4 8 4 5 2
B I D S November 12, 2015

203 - 6050 Cass WSU PD
6000 Cass Avenue
Detroit, Michigan 48202

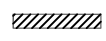
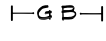
GPS : 42.364957, - 83.071631

INDEX OF DRAWINGS

SHEET #	DESCRIPTION	
CVR	PROJECT COVER SHEET	
E-0	ELECTRICAL STANDARDS AND NOTES	
E-1	BASEMENT FLOOR POWER PLAN	- Reference Only
E-2	FIRST FLOOR POWER PLAN	
E-3	SECOND FLOOR POWER PLAN	- Reference Only



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	DISTRIBUTION PANEL
	GROUND BUS

ELECTRICAL ABBREVIATIONS LIST

A	AMPERES	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISH FLOOR	NF	NON - FUSIBLE
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OC	ON CENTER
CKT	CIRCUIT	P	POLE
DISC	DISCONNECT	PH	PHASE
DP	DISTRIBUTION PANEL	PL	PLASTER
EC	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
EMT	ELECTRICAL METALLIC TUBING	SCHED	SCHEDULE
FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
KV	KILOVOLT	U. O. N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT - AMPERES	V	VOLTS
LP	LIGHTING PANEL	W	WIRE
LDP	LIGHTING DISTRIBUTION PANEL	WP	WEATHERPROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MIN	MINIMUM	XP	EXPLOSION PROOF
MISC.	MISCELLANEOUS	(E)	EXISTING
N	NEUTRAL	(R)	RELOCATED

VOIP - PHASE 2B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30R	NOTES
2B	6050 CASS AVENUE WSU PD	129	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
02	115' - 0"	14' - 6" - TO ROOF
01	100' - 0"	15' - 0"
B	89' - 2 1/2"	10' - 9 1/2"

SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR THE FOLLOWING SCOPE OF WORK :

1. PROVIDE 30 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R NEMA RECEPTACLE IN IT CLOSET (AS DESIGNATED IN VOIP - PHASE 2 BUILDING AND ROOM SCHEDULE) COMPLETE WITH DISCONNECTED SWITCH IN IT CLOSET. EXACT LOCATION OF L6-30R OUTLET TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRATOR TO INSTALL OWNER-FURNISHED PDU/POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE (1) NEW 30A 2 POLE CIRCUIT BREAKER.

3. PROVIDE 3/4 C-4-#10 EMT IN ELECTRICAL ROOM AND THE DATA ROOM, BETWEEN THE ROOMS ABOVE THE CEILING WILL BE #10 / 4 CONDUCTOR MC CABLE AND PROPERLY SUPPORTED.

4. INSTALL A 30A 1PH 250V NON FUSED DISCONNECT LOCKABLE SWITCH IN DATA ROOM NEXT TO A 30A 1PH 250V TWISTLOCK RECEPTACLE.

5. THE CONTRACTOR SHALL PROPERLY FIRE STOP ALL PENETRATIONS RELATED TO THEIR WORK.

6. ALL WORK TO BE COMPLETED MONDAY THRU FRIDAY FROM 7:00 AM TO 3:30 PM.

7. IF RECEPTACLE PANEL "RP" IS FULL THE CONTRACTOR SHALL LOCATE AN ALTERNATE RECEPTACLE PANEL WITHIN 150'-0" OF THE DATA ROOM.

8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

9. AT THE RECEPTACLE PANEL AND INSTALL LABELS FOR ALL CHANGES AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

10. THE CONTRACTOR SHALL PROVIDE ALL NEW 2 POLE AND DA CIRCUIT BREAKERS TO MATCH EXISTING PANELBOARDS.

11. RECEPTACLE PANEL DESIGNATION ON THE DRAWINGS IS NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD. FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILINGS ARE EITHER OPEN OR LAY IN OR U.O.N..

REVISIONS :

WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE

Electrical Standards and Notes

PROJECT TITLE :
203 - 6050 Cass Avenue
VOIP - Phase 2B

DATE :
November 12, 2015

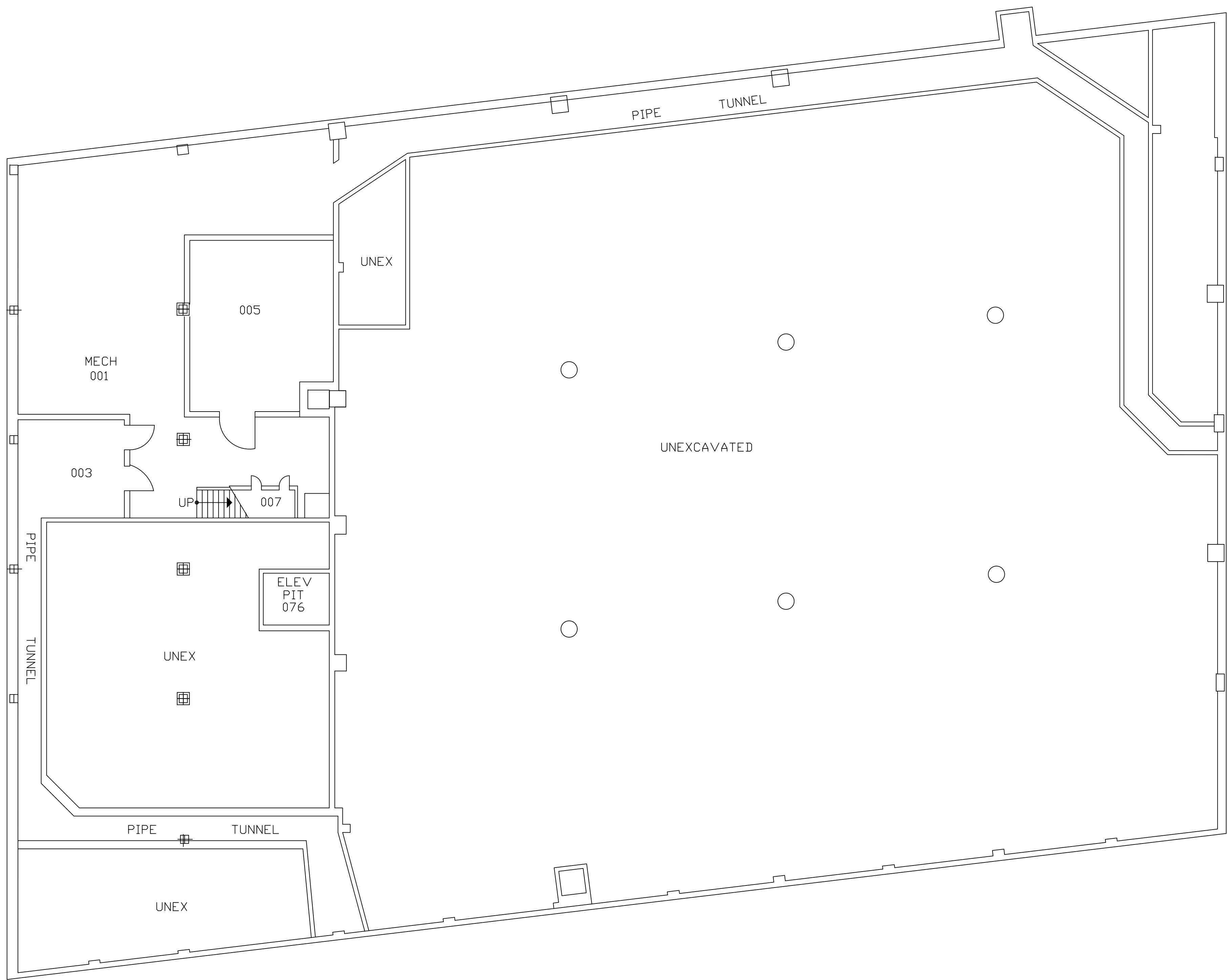
ISSUE :

BIDS

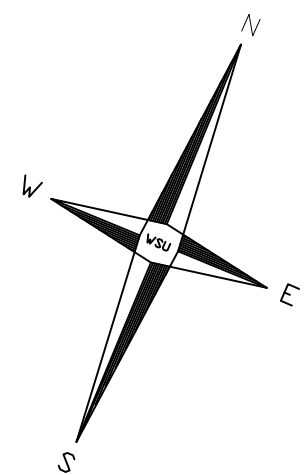
PROJECT NUMBER
#193-248452

SHEET NO.

E-0



6050 CASS
BUILDING #203
BASEMENT FLOOR

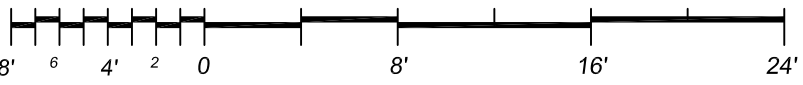


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

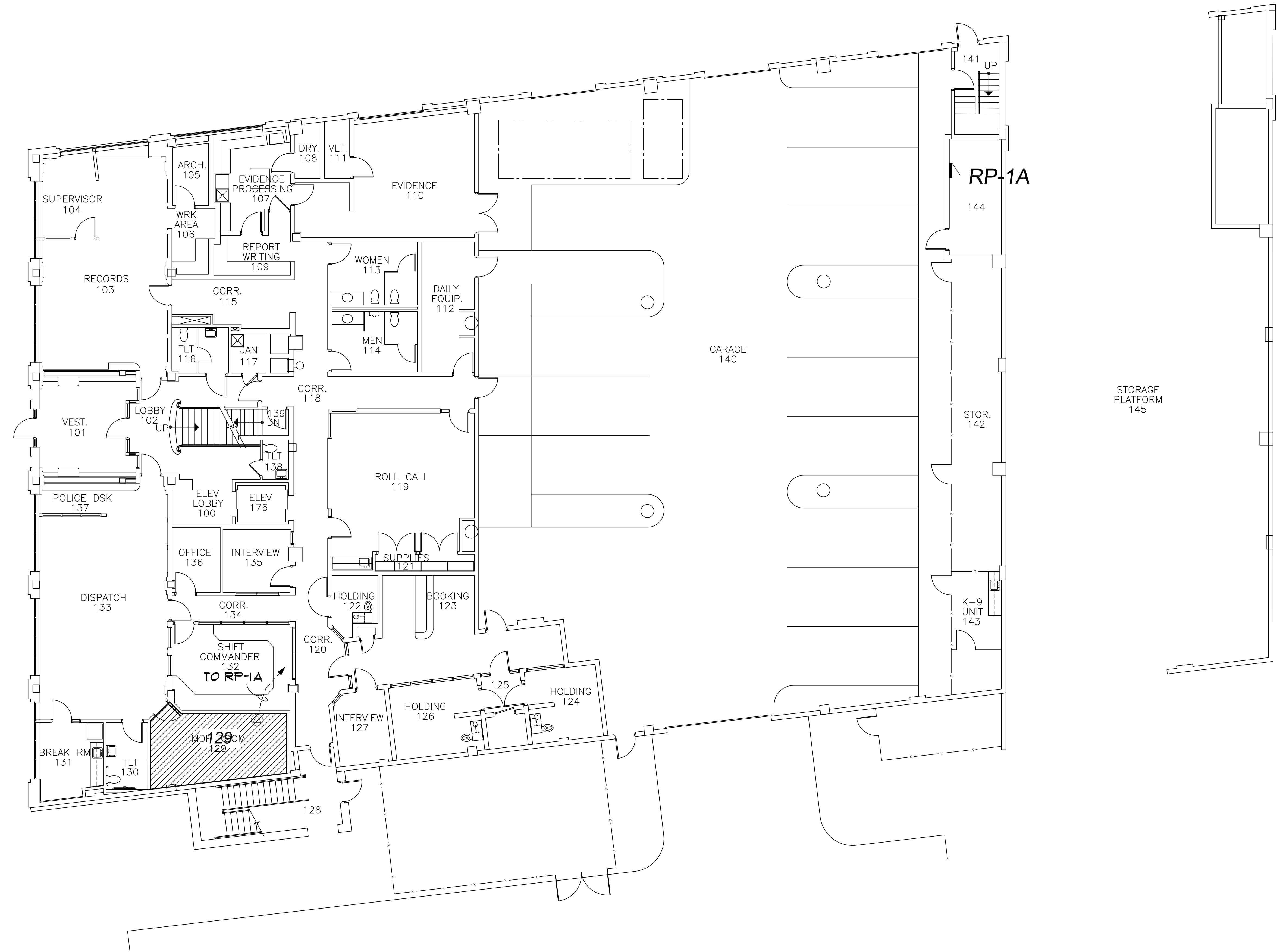


Basement Floor Power Plan

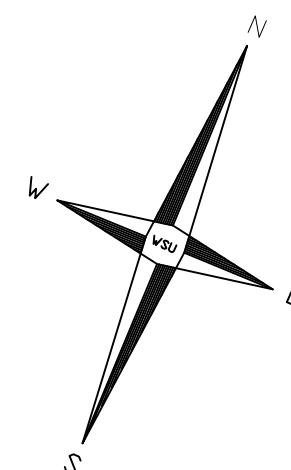
Scale : 1/8" = 1'-0"



Reference Only



6050 CASS
BUILDING #203
FIRST FLOOR

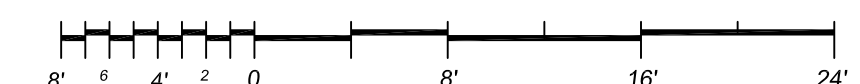


DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



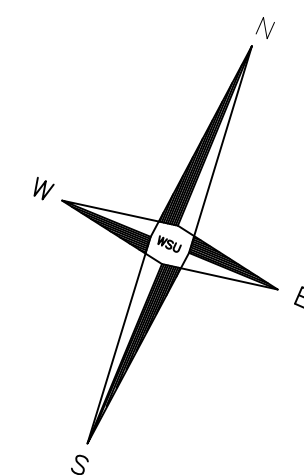
First Floor Power Plan

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



Reference Only

6050 CASS
BUILDING #203
SECOND FLOOR



DISCLAIMER:
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.
THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



Second Floor Power Plan

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

