



# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016

### 064 - Beecher House

5475 Woodward Avenue  
Detroit, Michigan 48202

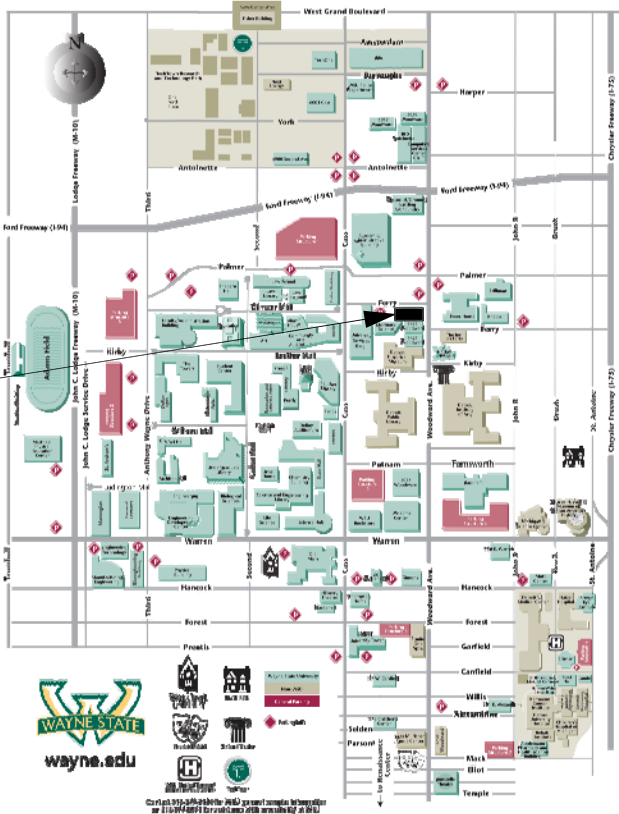
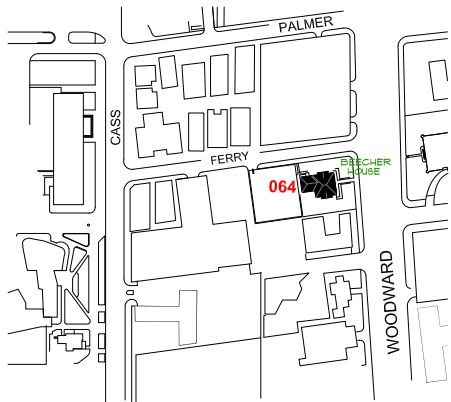
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### INDEX OF DRAWINGS











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

REFERENCE ONLY  
REFERENCE ONLY

Project Location : Beecher House



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	BEECHER HOUSE	002		YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
03	.	.
02	.	.
01	.	.
B9MT	.	.

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

NOTE: NEUTRAL SHALL BE CAPPED AT RECEPTACLE FOR FUTURE.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE ( 1 ) NEW 30A AND/OR 20A 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, PROVIDE AND INSTALL LABELS FOR ALL CHANGES IN THE PANEL AND THE 2 POLE BREAKER FEEDING THE DATA CIRCUIT.

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

11. RECEPTACLE PANEL DESIGNATIONS ON THE DRAWINGS ARE 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 CEILING\$ 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 :  
064 - Beecher House  
VOIP - Phase 3B

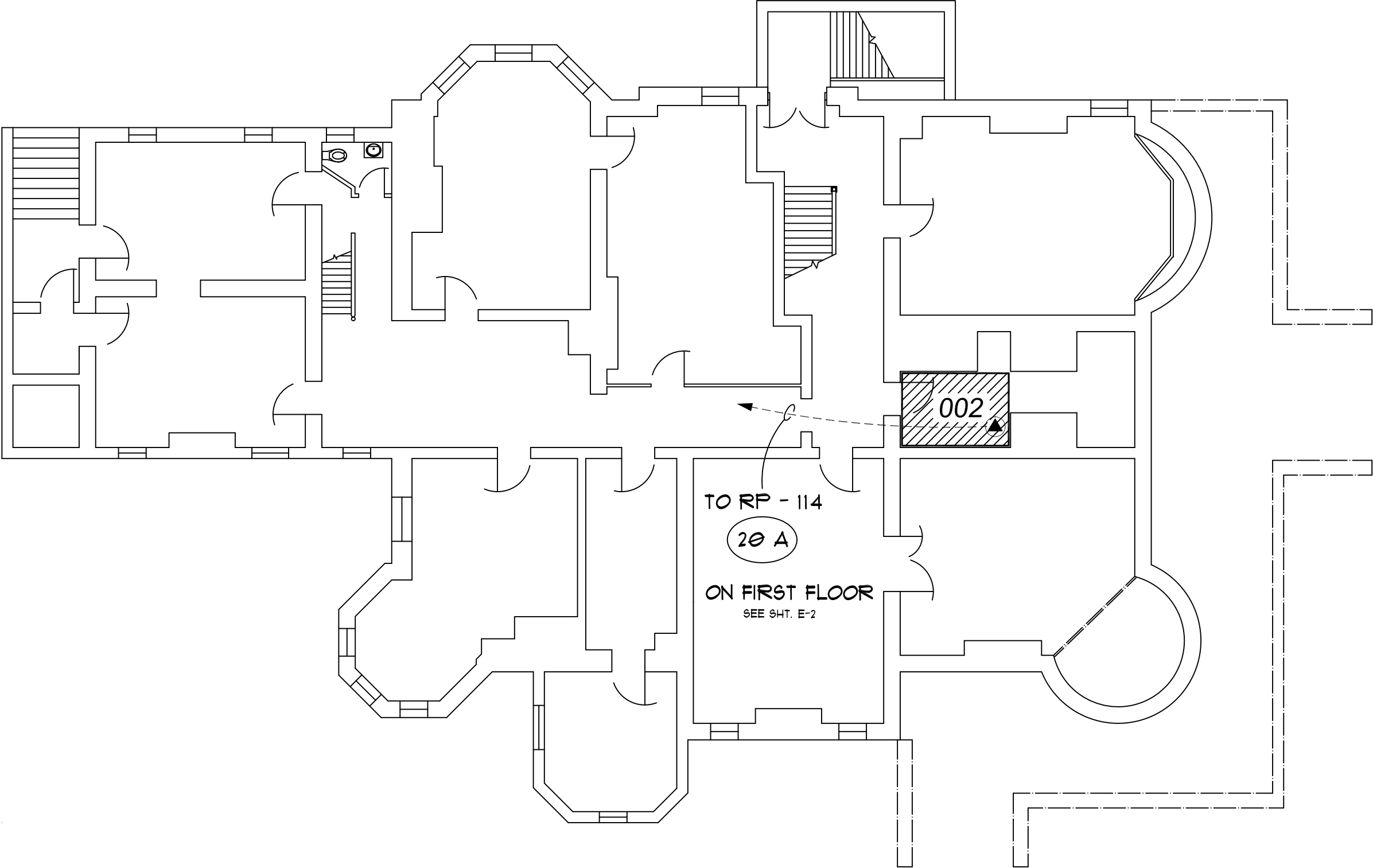
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May XX, 2016

ISSUE :  
BIDS

PROJECT NUMBER  
#193-248452

SHEET NO.

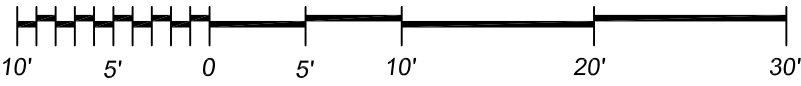
E-0



NORTH

**Basement Floor Power Plan**

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



WAYNE STATE UNIVERSITY

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

PROJECT TITLE:  
064 Beecher House  
VOIP - Phase 3B

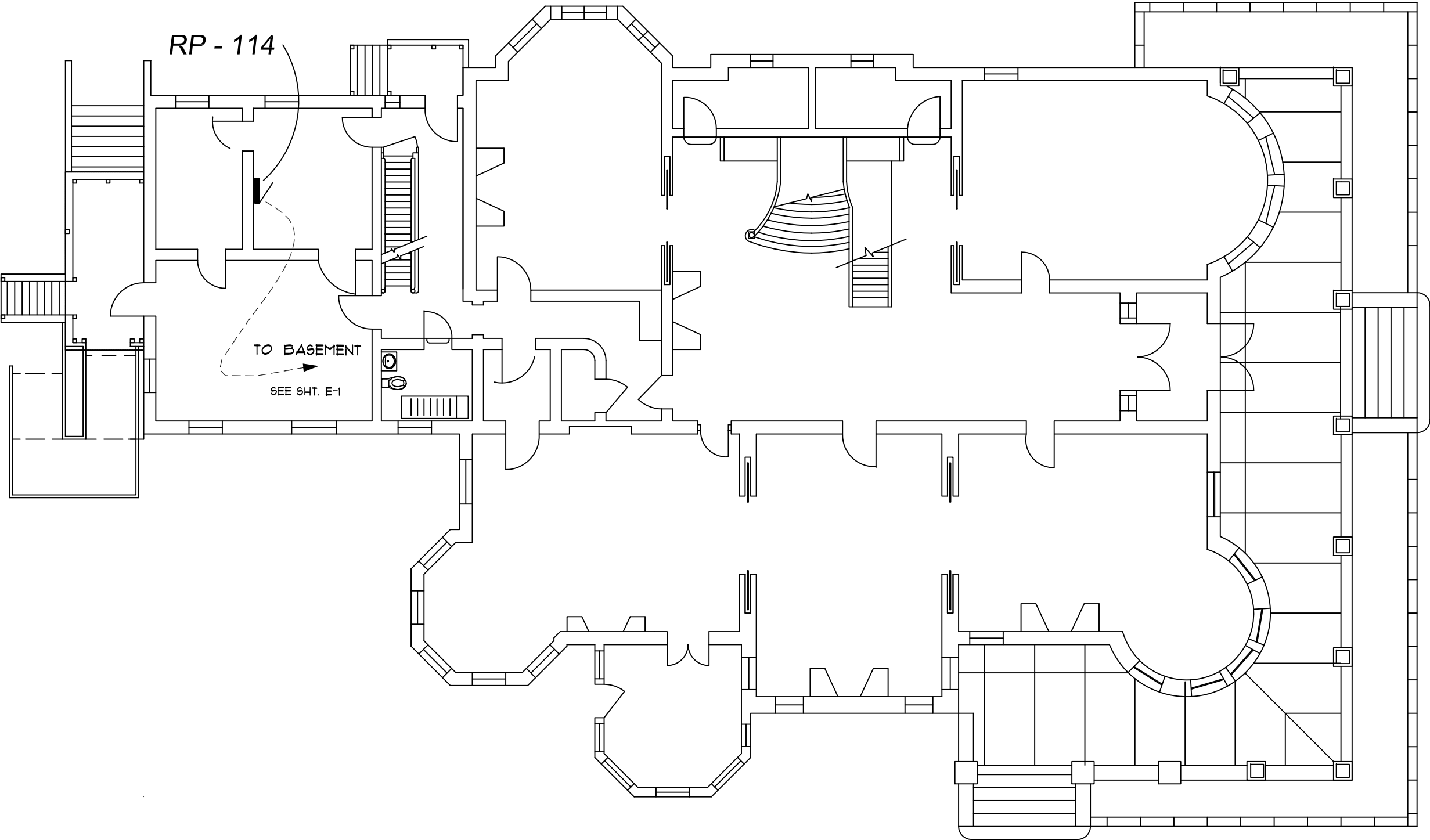
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Basement Floor Power Plan

DATE:  
May, 05, 2016

ISSUE:  
BIDS

PROJECT NUMBER:  
#193-248452

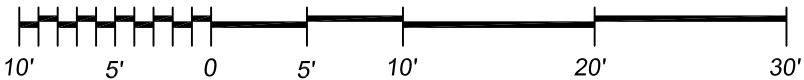
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**E-1**



NORTH

### First Floor Power Plan

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



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

PROJECT TITLE :  
064 Beecher House  
VOIP - Phase 3B

SHEET :  
First Floor Power Plan

DATE :  
May, 05, 2016

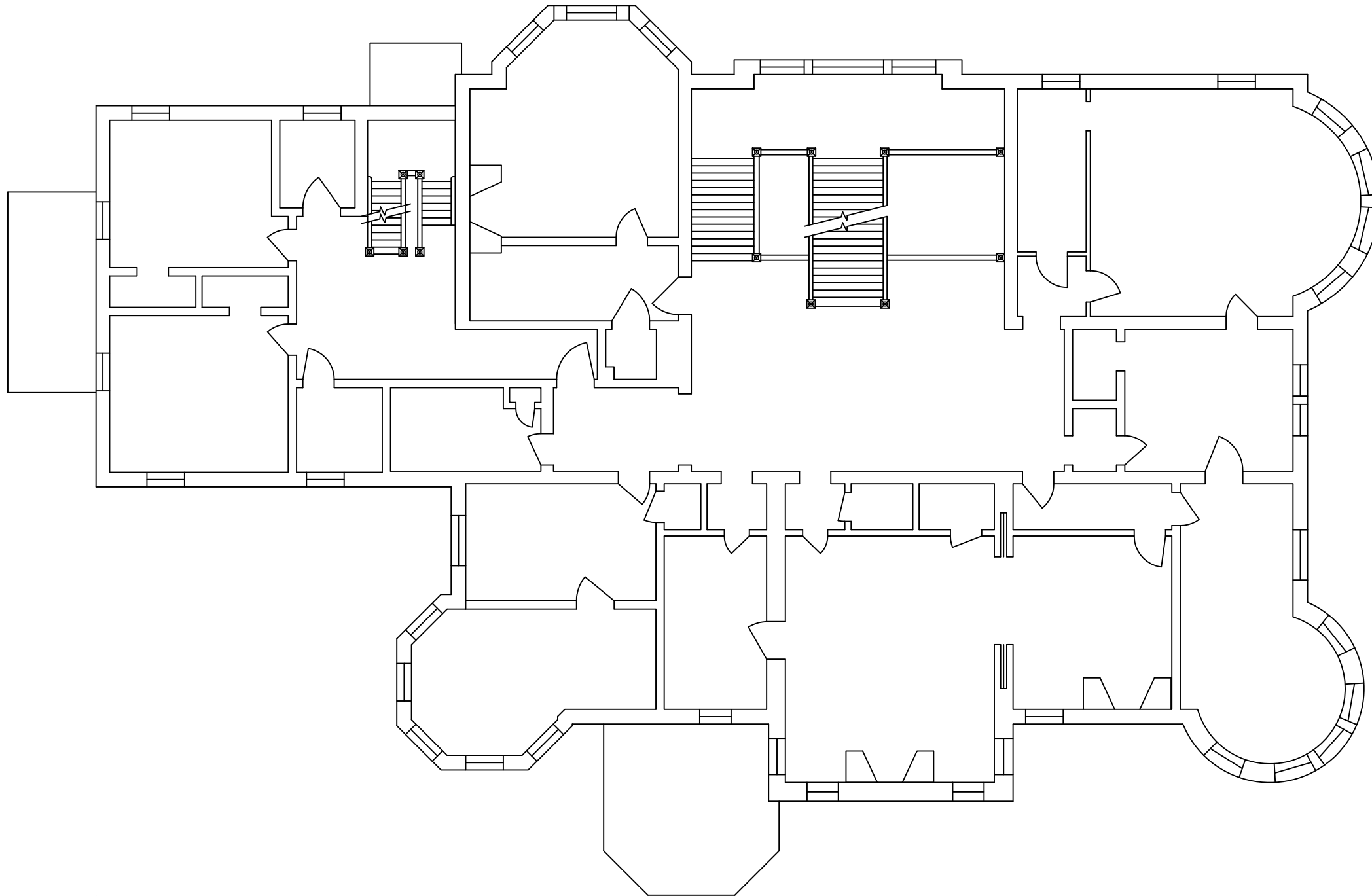
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PROJECT NUMBER  
#193-248452

SHEET NO.

E-2





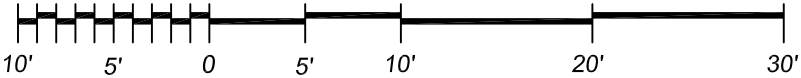
Reference Only



NORTH

Second Floor Power Plan

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



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

PROJECT TITLE :  
064 Beecher House  
V O I P - Phase 3B

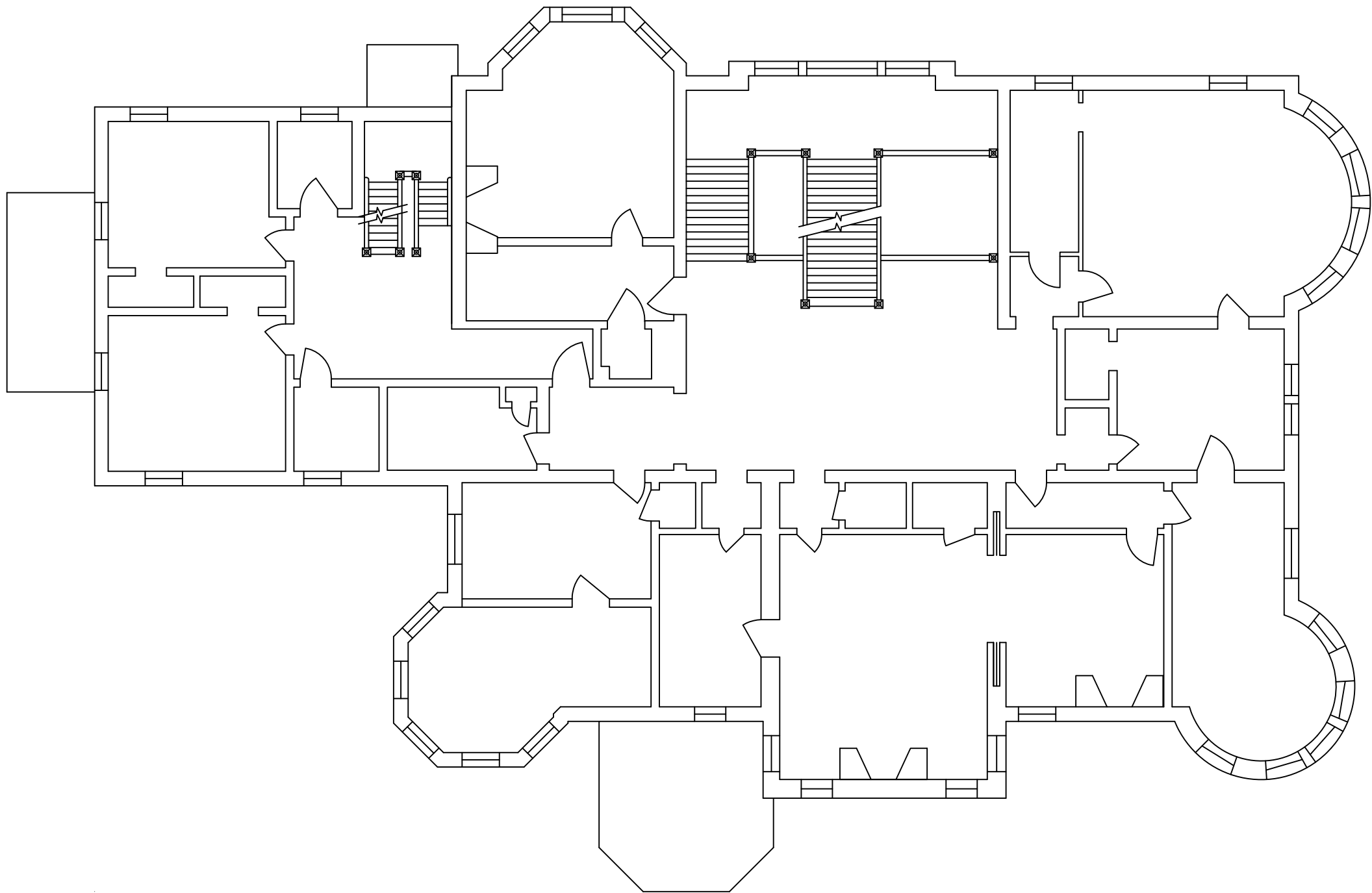
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May, 05, 2016

ISSUE :  
BID6

PROJECT NUMBER  
#193-248452

SHEET NO.  
E-3

SHEET :  
Second Floor Power Plan



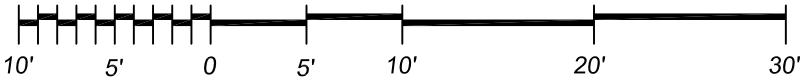
Reference Only



NORTH

Third Floor Power Plan

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



REVISIONS :


WAYNE STATE UNIVERSITY - Facilities Planning & Management CSC TELECOM ELECTRICAL UPGRADE	Third Floor Power Plan	
	064 Beecher House VOIP - Phase 3B	

DATE : May, 05, 2016
ISSUE : BIDS
PROJECT NUMBER #193-248452
SHEET NO. E-4



# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

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WSU PROJECT NO. 193 - 2 4 8 4 5 2

**B I D S** May 10, 2016

### 078 - WSU Stadium Auxillary Facility

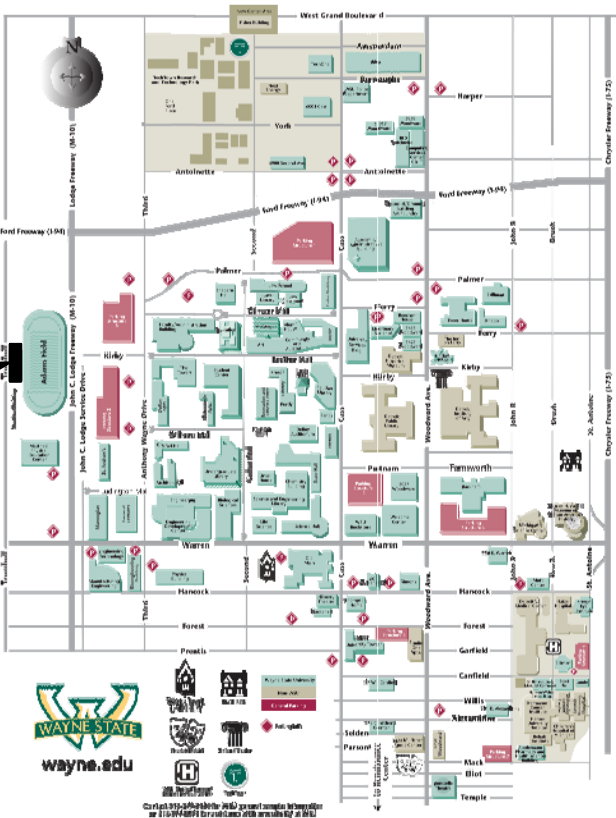
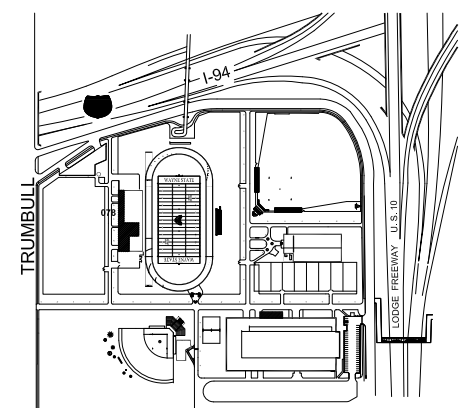
1401 Edsel Ford Service Drive  
Detroit, Michigan 48202

GPS : 42.355745, - 83.079308











### INDEX OF DRAWINGS

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

Project Location : WSU Stadium  
Auxillary Facility



ELECTRICAL SYMBOL LIST

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

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ELEC	ELECTRICAL	RP	RECEPTACLE PANEL
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FU	FUSE	SW	SWITCH
G / GRD	GROUND	TB	TERMINAL BOX
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATIONS
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MISC.	MISCELLANEOUS	( E )	EXISTING
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VOIP - PHASE 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	WSU STADIUM AUXILLARY FACILITY	128	.	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
01	154' - 0"	.

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

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

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

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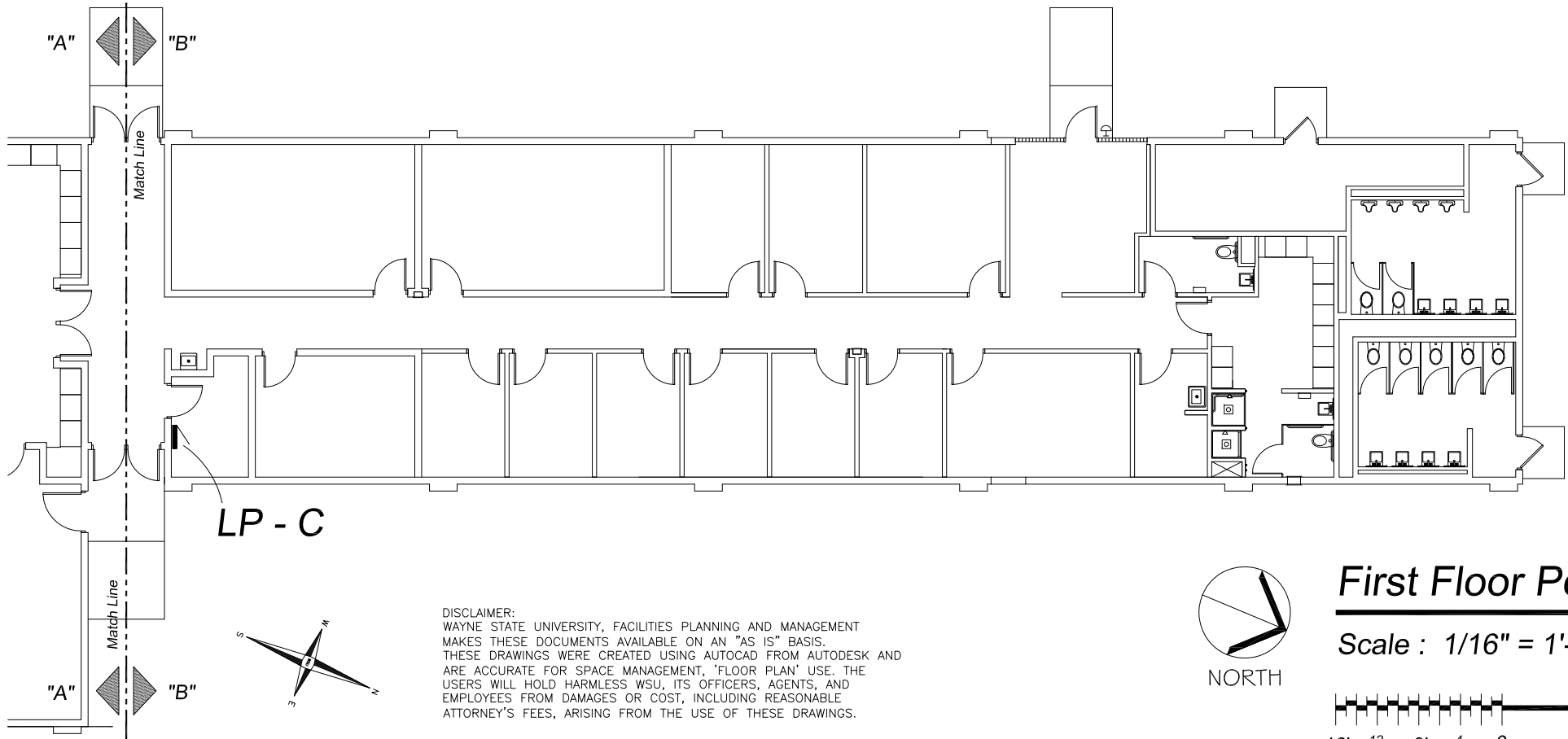
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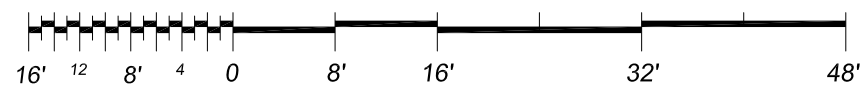
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NORTH

## First Floor Power Plan

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





# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

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WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016

### 079 - WSU Stadium & Press Box

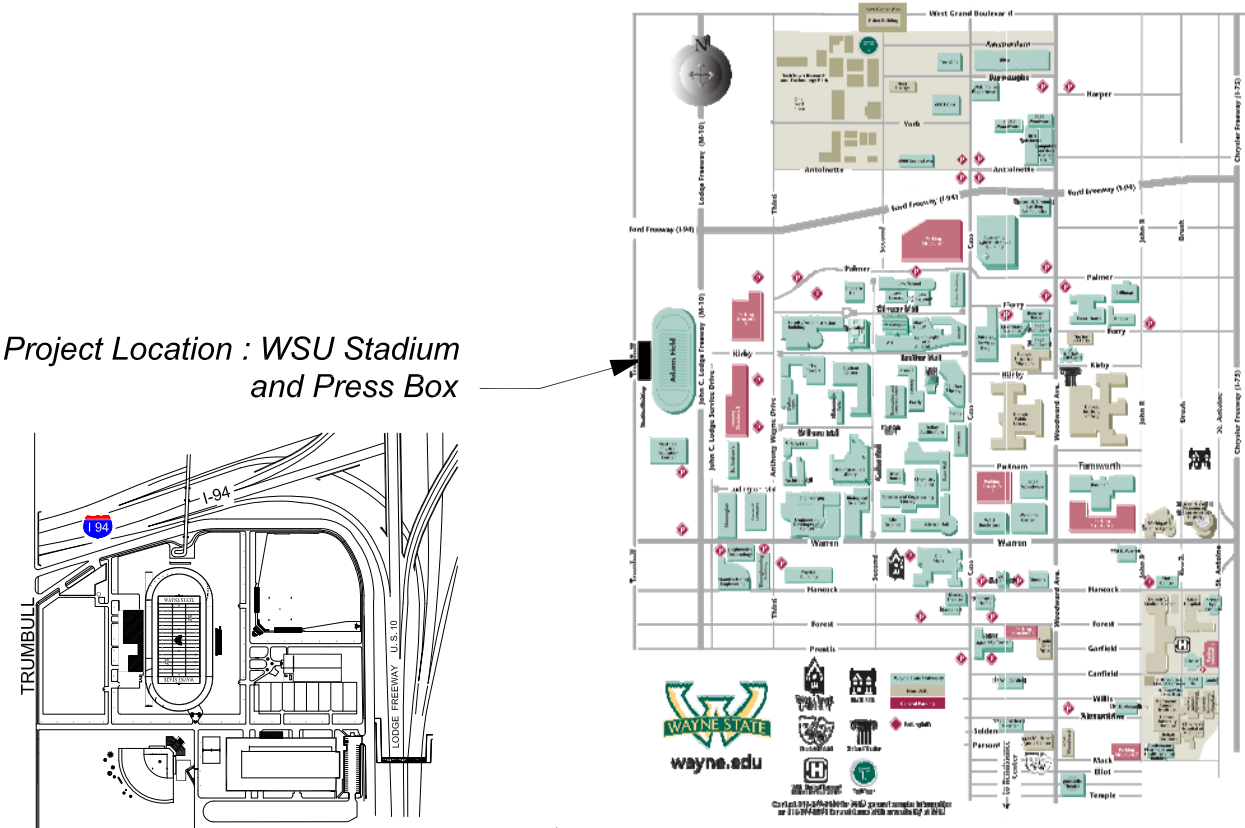
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Detroit, Michigan 48202

GPS : 42.355537, - 83.098911

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REFERENCE ONLY  
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VOIP - PHASE 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	WSU STADIUM AND PRESS BOX 1 & 2	300	.	YES	FIELD COORDINATE

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
03 - FB 2	210' - 8"	
02 - FB 1	200' - 2"	** 10' - 6"
01	154' - 0"	* 36 STAIRS X 14 3/8"
GRADE	144' - 0"	5' - 0" RAMP TO AISLE

- \* TO TOP OF GRANDSTAND @ 191' - 10 1/2"
- \*\* FLOOR OF PRESSBOX 01 WITH STAIRS

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

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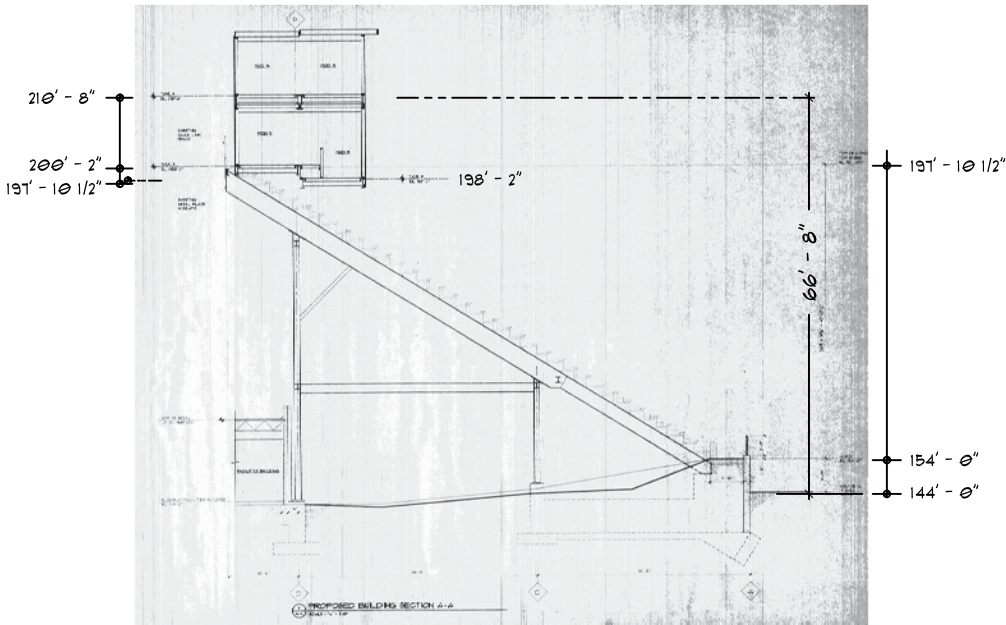
8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

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

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

11. RECEPTACLE PANEL DESIGNATIONS ON THE DRAWINGS ARE 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 CEILING IS EITHER OPEN OR LAY-IN OR U.O.N.



WSU STADIUM AND PRESS BOX - ELEVATION SCALE : N.T.S.




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

PROJECT TITLE:  
079 WSU Stadium / Press Box  
VOIP - Phase 3B

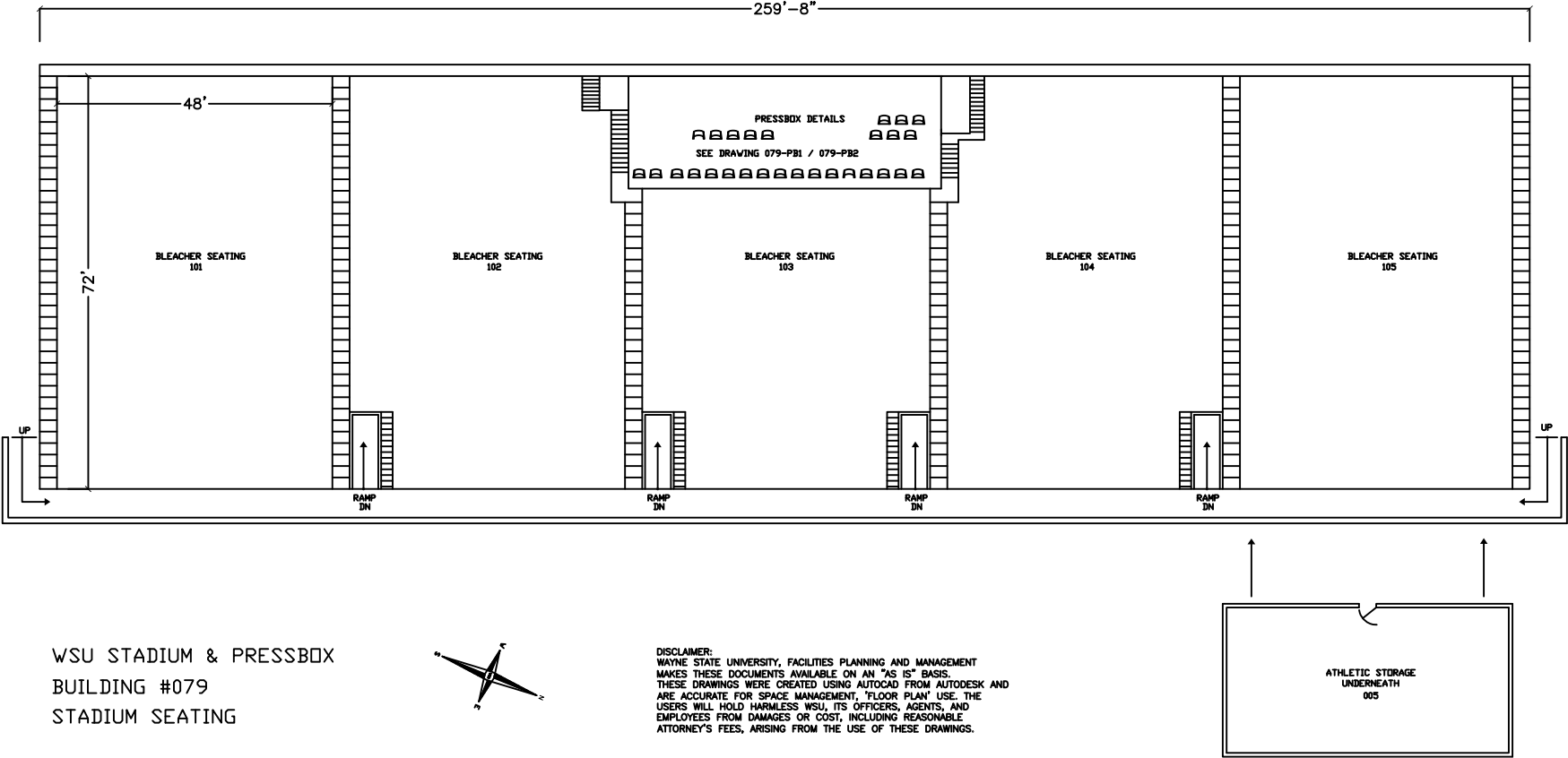
SHEET:  
First Floor Power Plan

DATE:  
May, 05, 2016

ISSUE:  
BIDS

PROJECT NUMBER:  
#193-248452

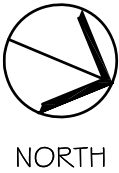
SHEET NO:  
E-1



WSU STADIUM & PRESSBOX  
BUILDING #079  
STADIUM SEATING

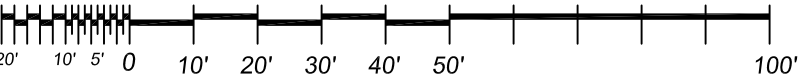
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THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND  
ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE  
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND  
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE  
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

Reference Only

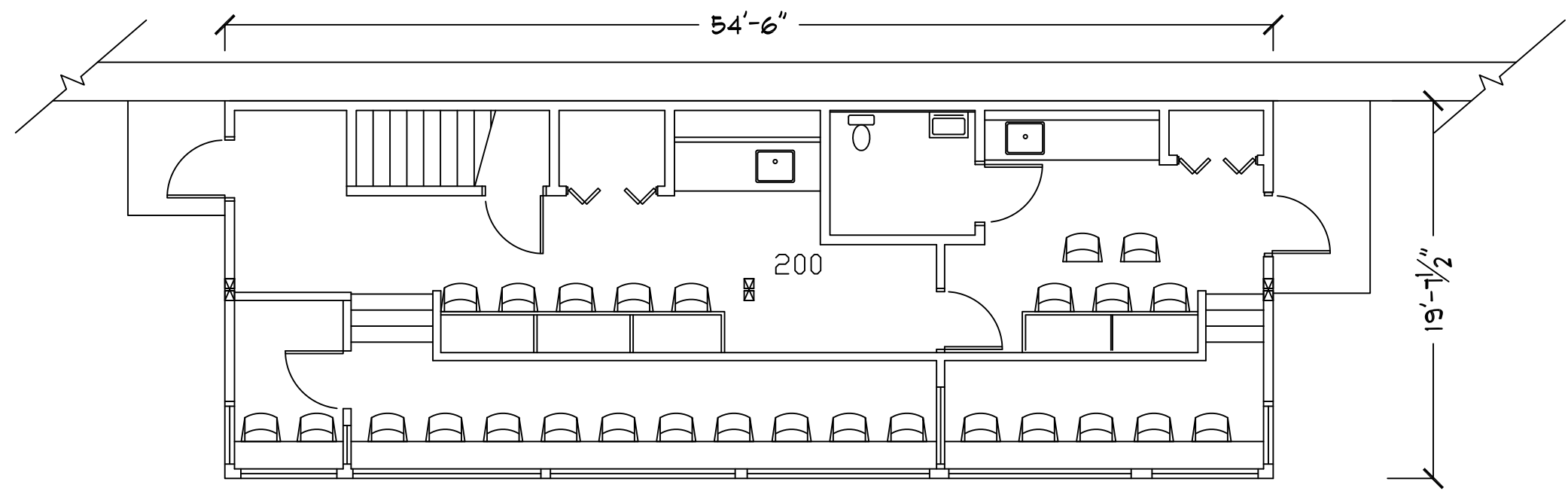


First Floor Power Plan

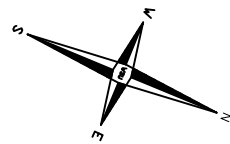
Scale : 1/32" = 1'-0"







WSU STADIUM PRESSBOX  
BUILDING #079  
PRESSBOX SECOND FLOOR



DISCLAIMER:  
WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT  
MAKES THESE DOCUMENTS AVAILABLE ON AN "AS IS" BASIS.  
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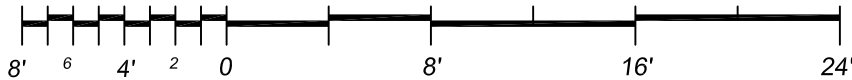
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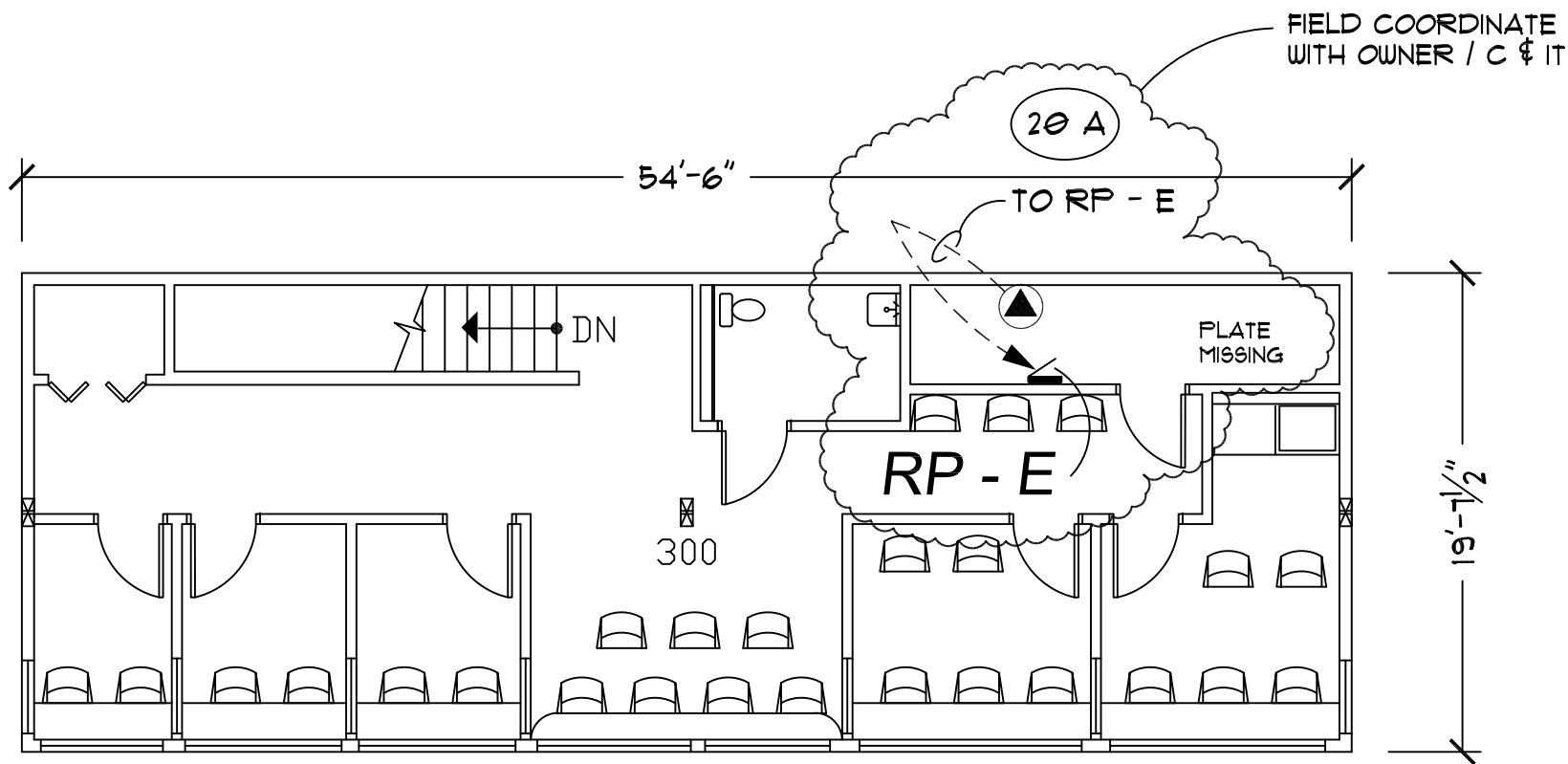


NORTH

Second Level Power Plan

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





WSU STADIUM PRESSBOX  
BUILDING #079  
PRESSBOX THIRD FLOOR



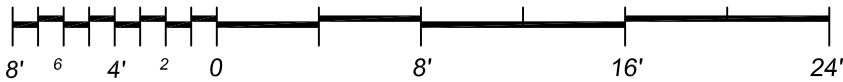
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EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE  
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.



NORTH

Third Floor Power Plan

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



DATE:  
May, 05, 2016

ISSUE:  
BIDS

PROJECT NUMBER:  
#193-248452

SHEET NO.

E-3



# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016

### 080 - Matthaei Physical Education Center

5101 John C. Lodge  
Detroit, Michigan 48202

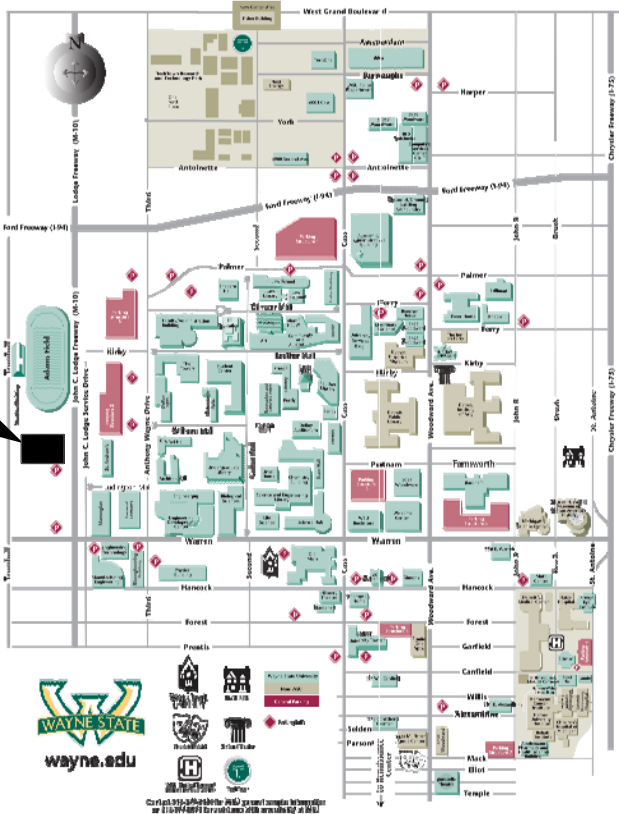
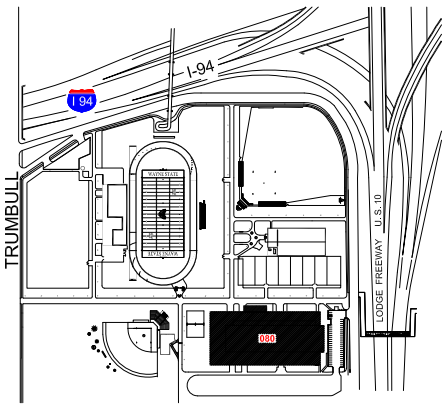
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#### INDEX OF DRAWINGS











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

REFERENCE ONLY  
REFERENCE ONLY

Project Location : Matthaei Physical Education Center



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	MATTHAEI PHYSICAL EDUCATION CENTER	269		YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
ROOF 2	136' - 7 1/2"	HIGH ROOF OF GYM
ROOF 1	123' - 0"	13' - 7 1/2" INTERM. ROOF
SOFFIT ROOF 02	112' - 11"	
SOFFIT 01	111' - 4"	11' - 8"
SOFFIT 01	108' - 0"	
SOFFIT 01	100' - 0"	11' - 4"
BASEMENT	86' - 0"	14' - 0"

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

NOTE: NEUTRAL SHALL BE CAPPED AT RECEPTACLE FOR FUTURE.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE ( 1 ) NEW 30A AND/OR 20A 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.

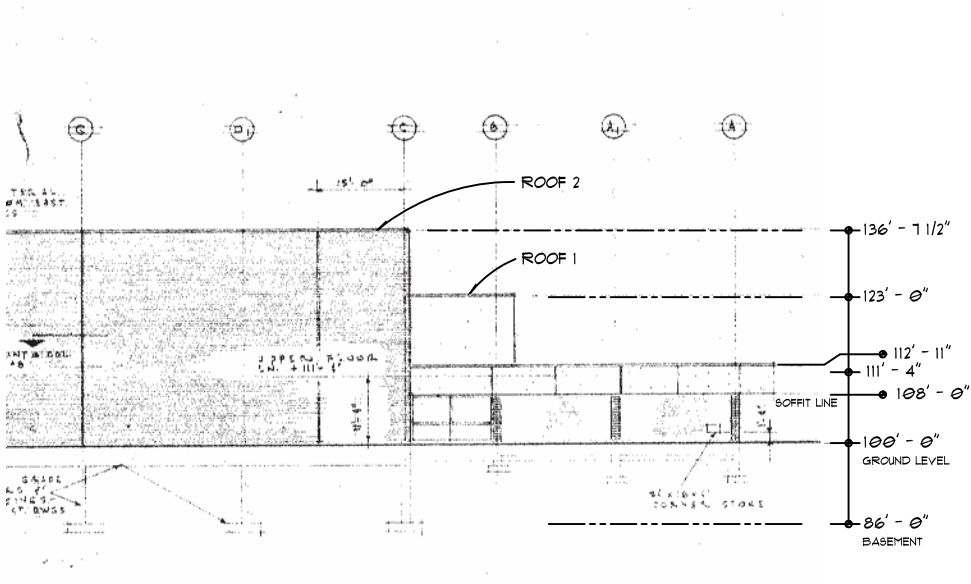
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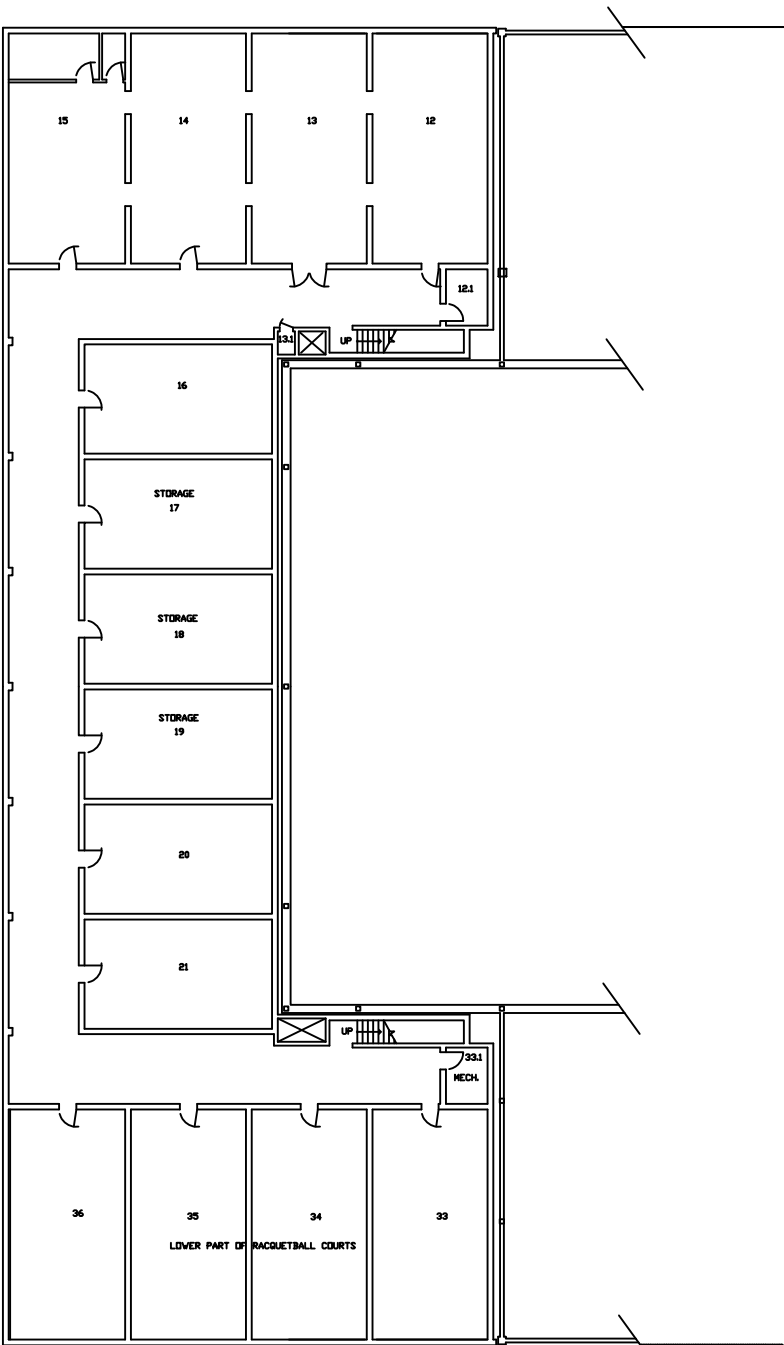
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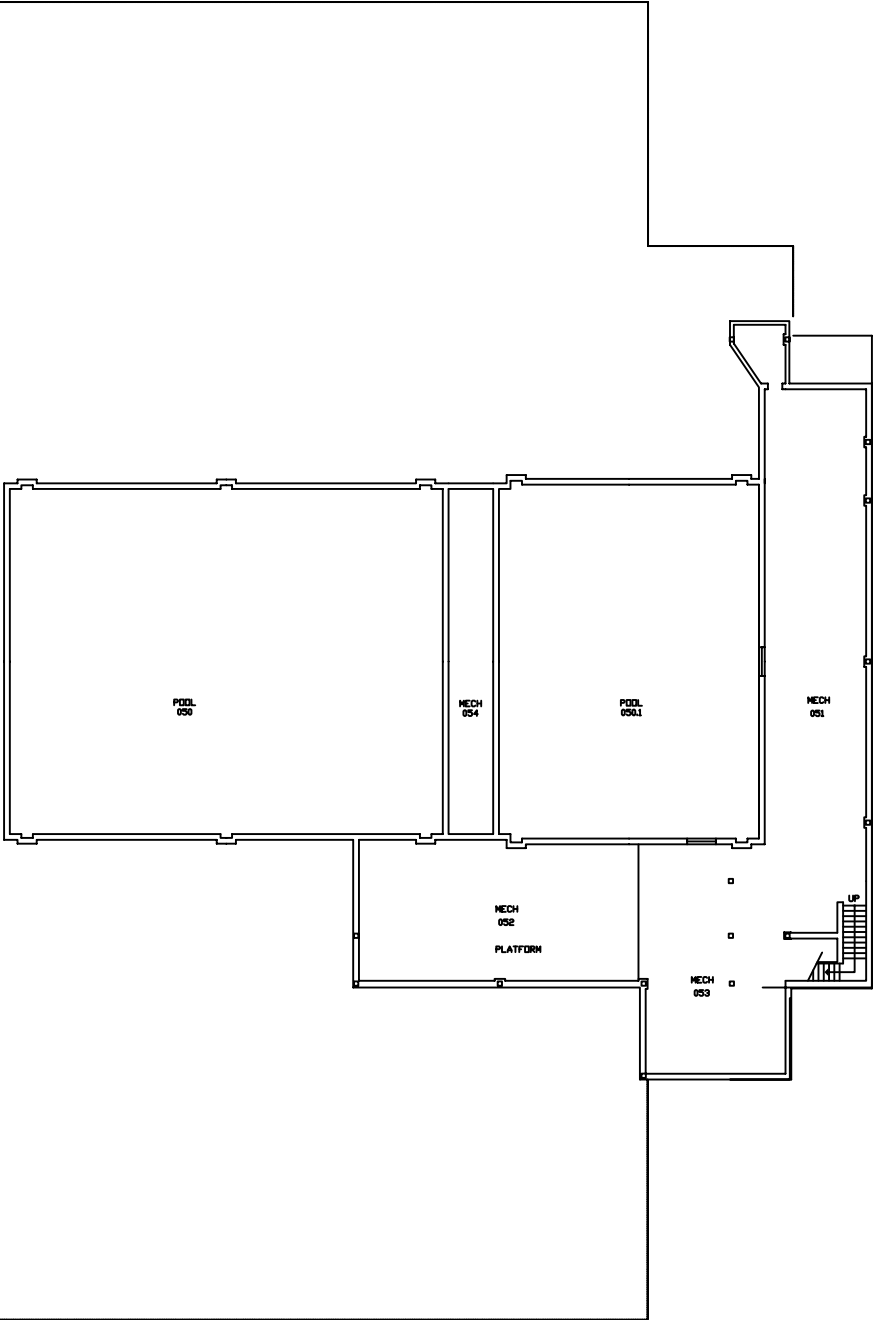
12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILING\$ ARE EITHER OPEN OR LAY-IN OR U.O.N.



MATTHAEI PHYSICAL EDUCATION CENTER - ELEVATION SCALE : N.T.S.



Reference Only



NORTH

**Basement Floor Power Plan**

Scale : N.T.S.




WAYNE STATE UNIVERSITY - Facilities Planning & Management	
CSC TELECOM ELECTRICAL UPGRADE	
PROJECT TITLE :	SHEET :
080 Matthaei Physical Educ Center	Basement Floor Power Plan
V O I P - Phase 3B	

DATE : May, 05, 2016
ISSUE : BIDS
PROJECT NUMBER #193-248452
SHEET NO. <b>E-1</b>

5101 John C. Lodge Service Drive

WAYNE STATE  
UNIVERSITY

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

### First Floor Power Plan

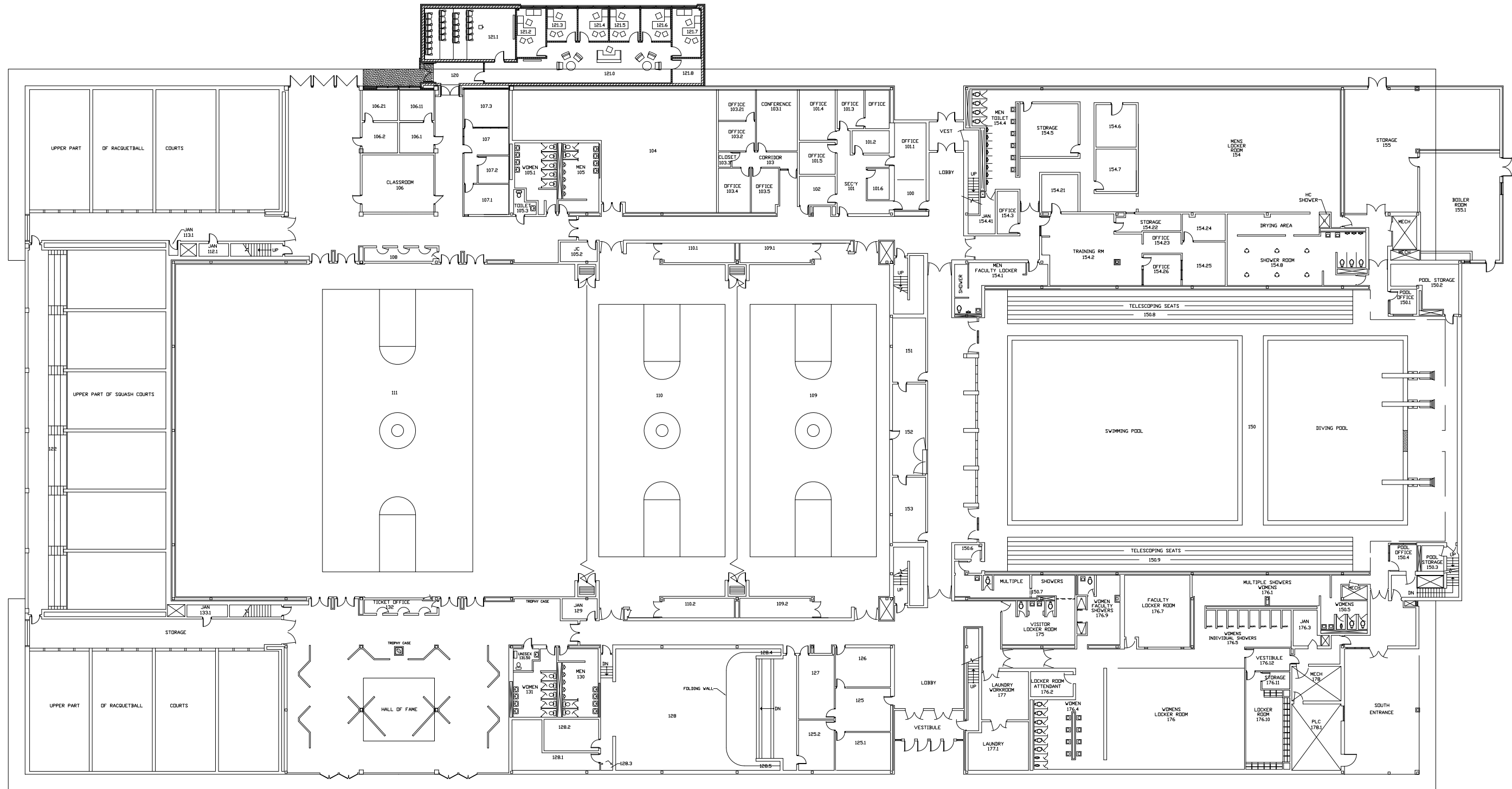
VOIP - Phase 3B

UE :  
IDS

PROJECT NUMBER  
#193-248452

SHEET NO.

E-2



# Reference Only

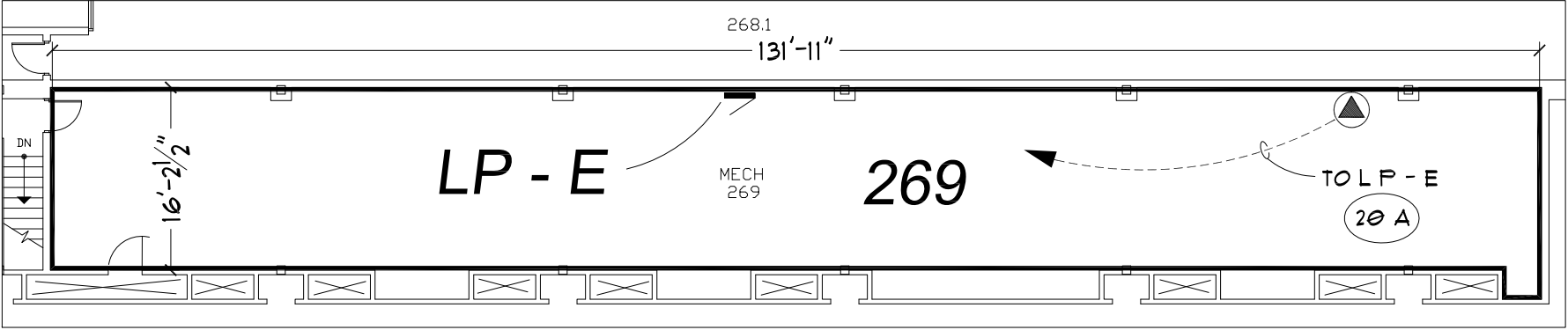
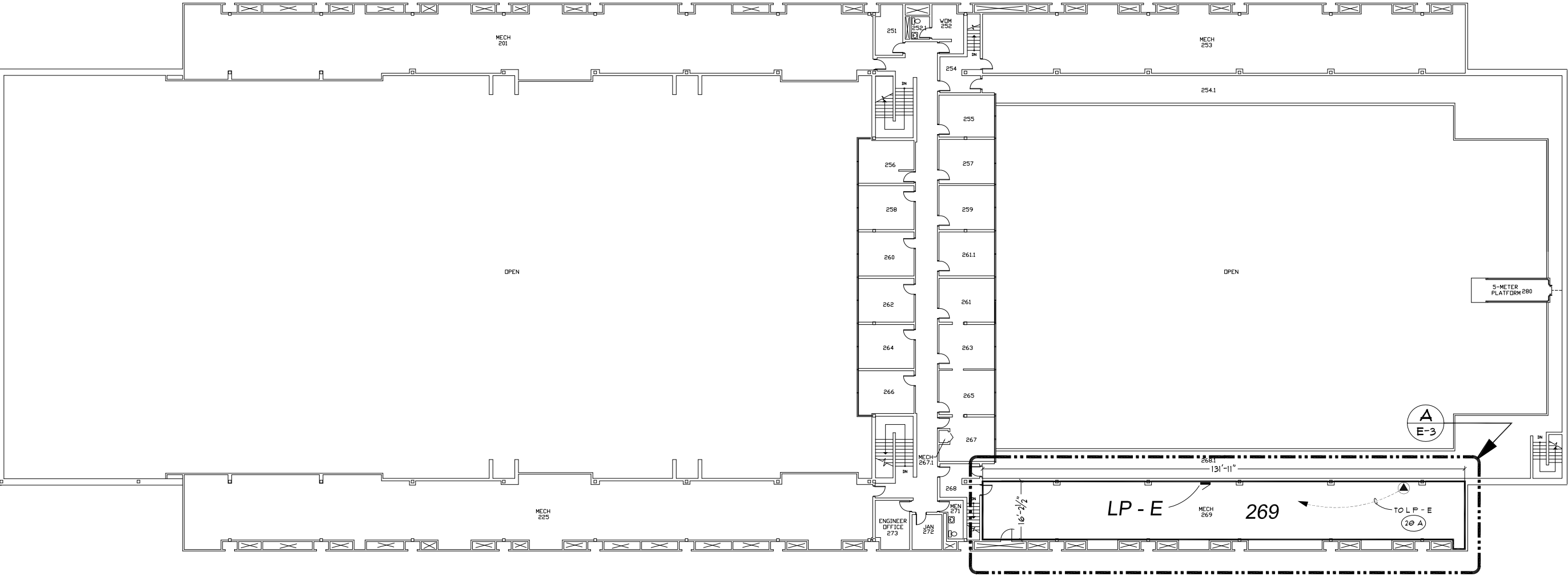


NORTH



*First Floor Power Plan*

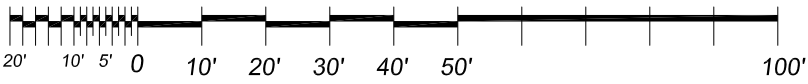
NORTH *Scale : N.T.S.*



**A**  
**E-3** **Second Floor Power Plan - Rm 269**  
Scale : 1/16" = 1'-0"



**Second Floor Power Plan**  
Scale : 1/32" = 1'-0"





# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016

### 091 - Athletic Multi-Purpose Indoor Facility

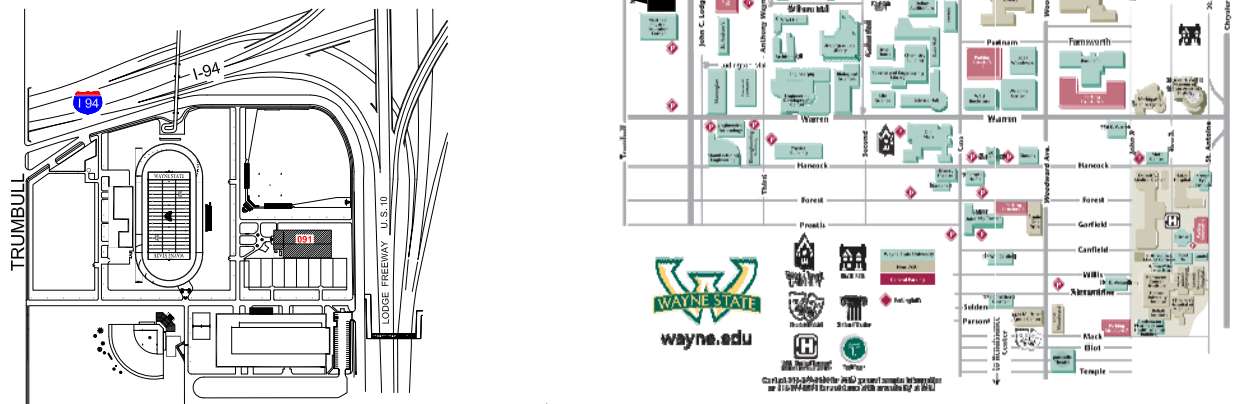
5301 John C. Lodge  
Detroit, Michigan 48202

GPS : 42.354732, - 83.075818

#### INDEX OF DRAWINGS











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

Project Location : Athletic Multi-Purpose Indoor Facility





ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	MULTI - PURPOSE INDOOR FACILITY ( ATHLETICS )	121		YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
ROOF PEAK CEILING (HOLD) ROOF / GUTTERS OFFICE PEAK SOFFIT 01	T.B.D.	41' - 0" 35' - 0" 26' - 0" 19' - 0" 13' - 0" 10' - 0"

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

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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.

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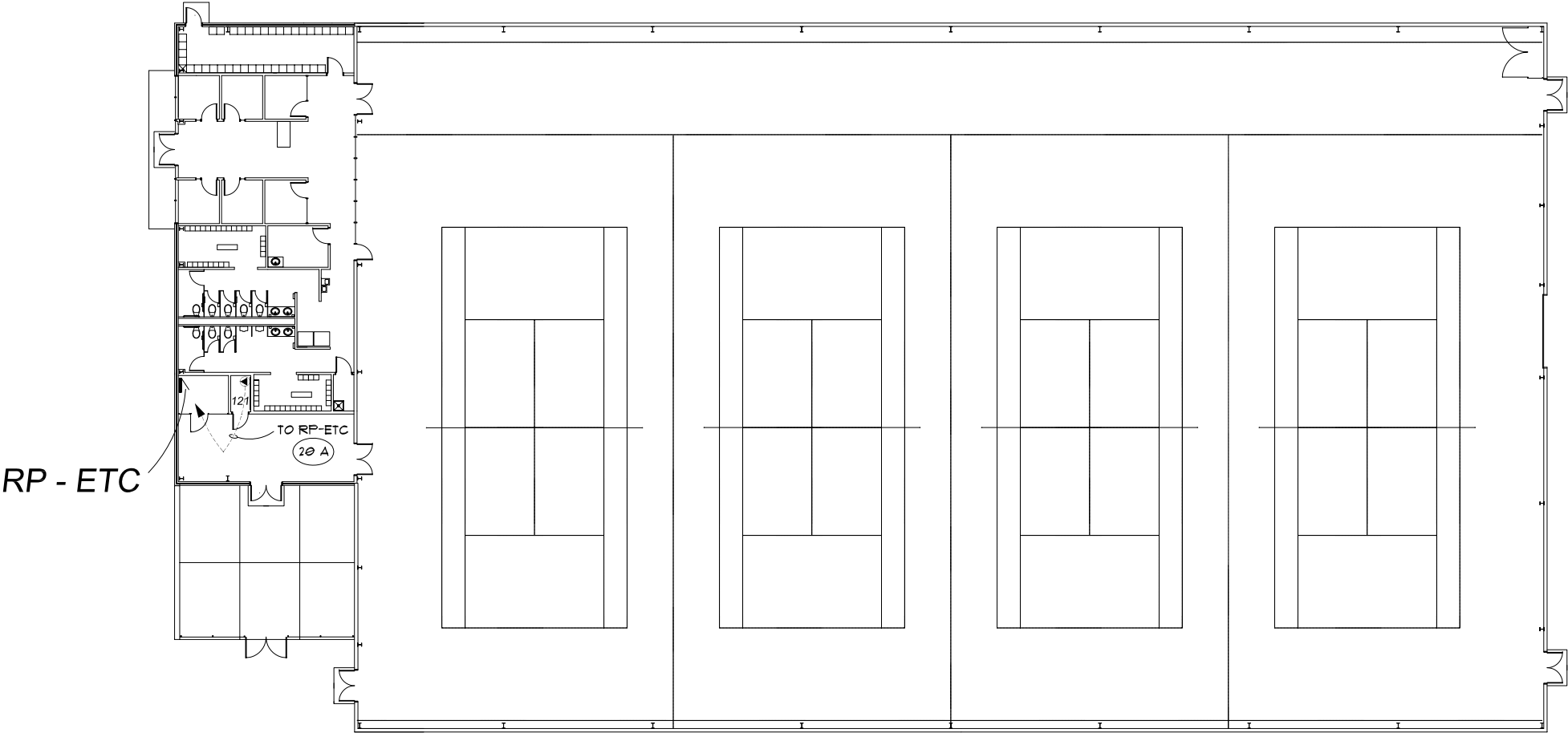
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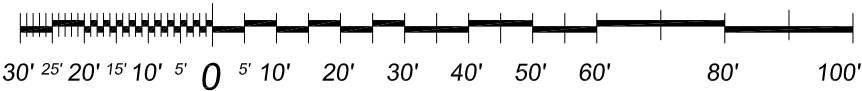
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12. ALL CONDUIT TO BE ABOVE FINISHED CEILING. EXISTING CEILING\$ ARE EITHER OPEN OR LAY-IN OR U.O.N..



First Floor Power Plan

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



WAYNE STATE  
UNIVERSITY

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

First Floor Power Plan

091 Athletic Multi-Purpose Indoor  
V O I P - Phase 3B

DATE:  
May, 05, 2016

ISSUE:

BID6

PROJECT NUMBER  
#193-248452

SHEET NO:

E-1



# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016

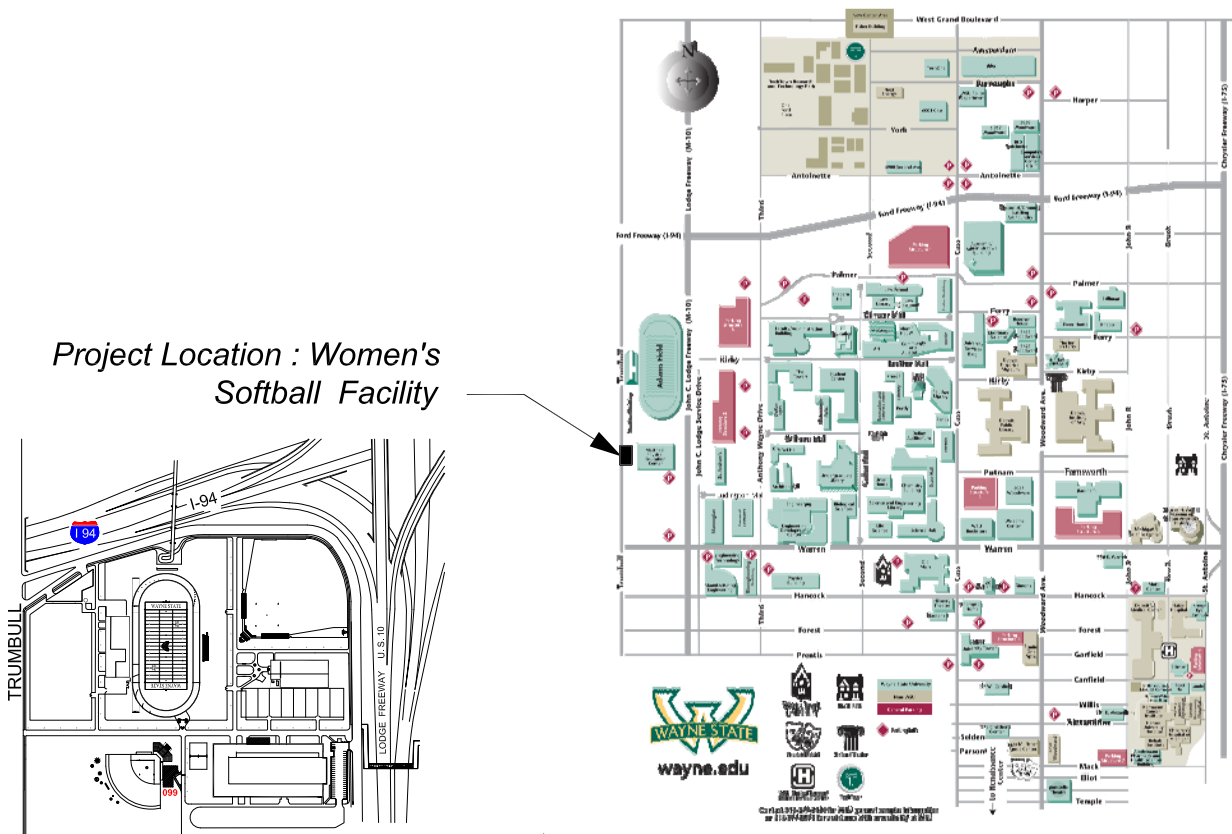
### 099 - Women's Softball Facility

1300 West Warren Avenue  
Detroit, Michigan 48202











GPS : 42.354481, - 83.077476

### INDEX OF DRAWINGS

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



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	WOMEN'S SOFTBALL FACILITY	109	.	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
01	100' - 0"	TOP OF COPING 118'-0"

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

NOTE: NEUTRAL SHALL BE CAPPED AT RECEPTACLE FOR FUTURE.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE ( 1 ) NEW 30A AND/OR 20A 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.

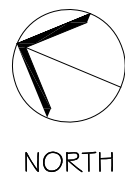
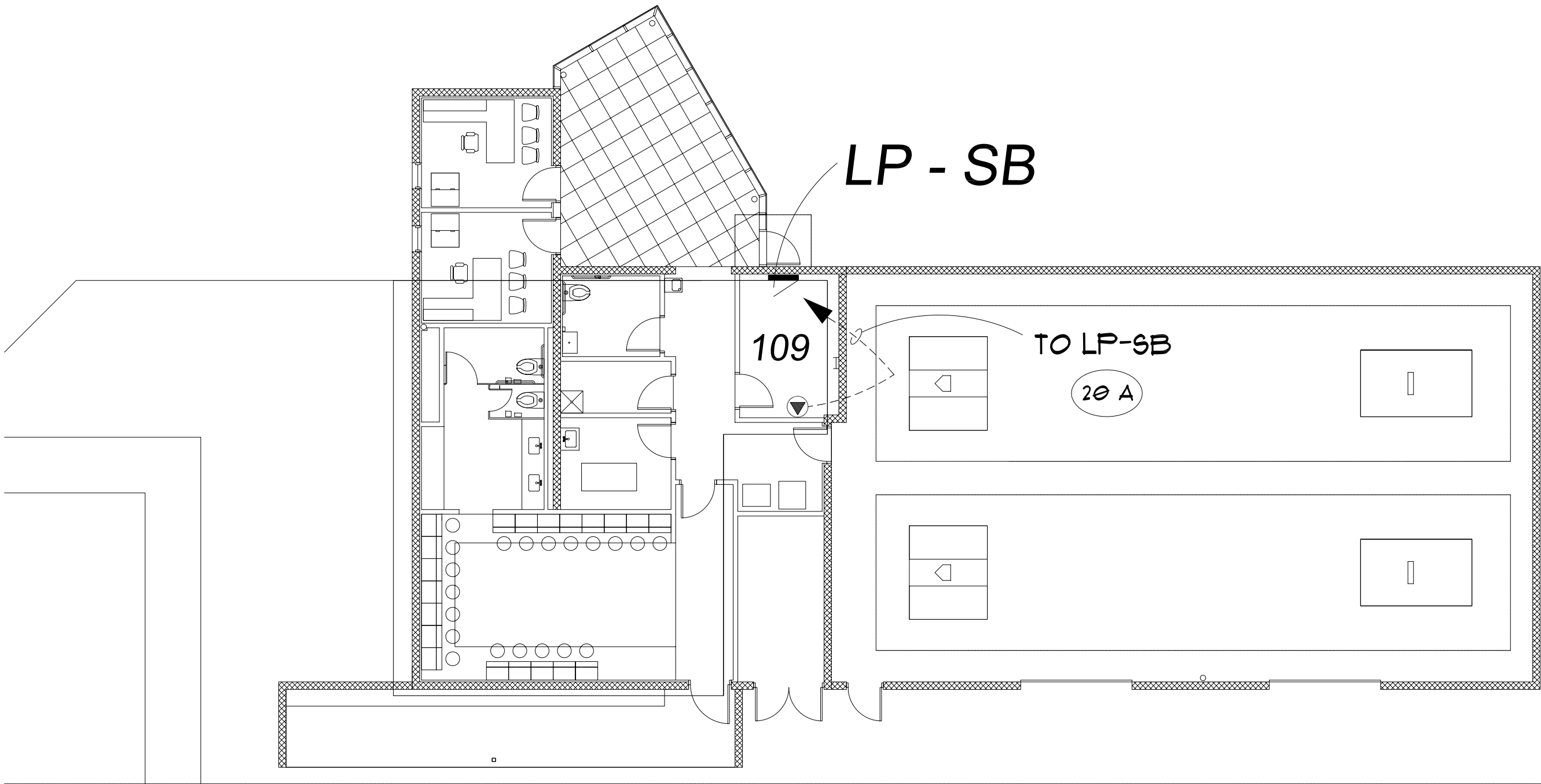
8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

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

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

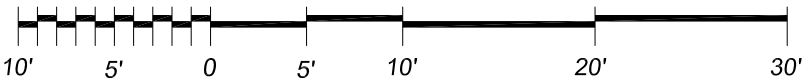
11. RECEPTACLE PANEL DESIGNATIONS ON THE DRAWINGS ARE NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD, FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

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



First Floor Power Plan

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





# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

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WSU PROJECT NO. 193 - 2 4 8 4 5 2  
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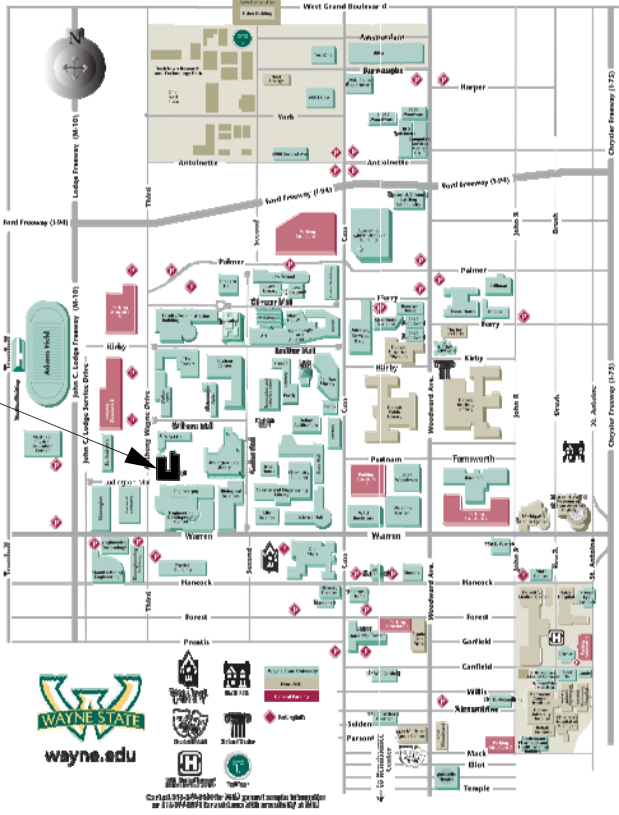
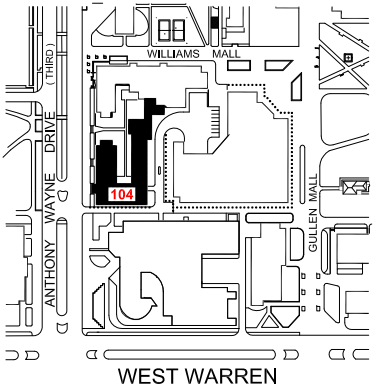
**104 - Atchison Hall**  
5110 Anthony Wayne Drive  
Detroit, Michigan 48202

GPS : 42.35592, - 83.07164











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E-5	FIFTH FLOOR POWER PLAN	REFERENCE ONLY
E-6	SIXTH FLOOR POWER PLAN	REFERENCE ONLY

Project Location : Atchison Hall



ELECTRICAL SYMBOL LIST

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	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	SPECIAL RECEPTACLE AS NOTED
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VOIP - PHASE 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	ATCHISON HALL ( HOUSING )	132	YES	.	
		151	YES	.	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
TOP OF PARAPET	158' - 8"	1' - 4"
ROOF	151' - 4"	8' - 8"
06	148' - 8"	8' - 8"
05	140' - 0"	8' - 8"
04	131' - 4"	8' - 8"
03	122' - 8"	8' - 8"
02	114' - 0"	8' - 8"
01	100' - 0"	14' - 0"

SCOPE OF WORK

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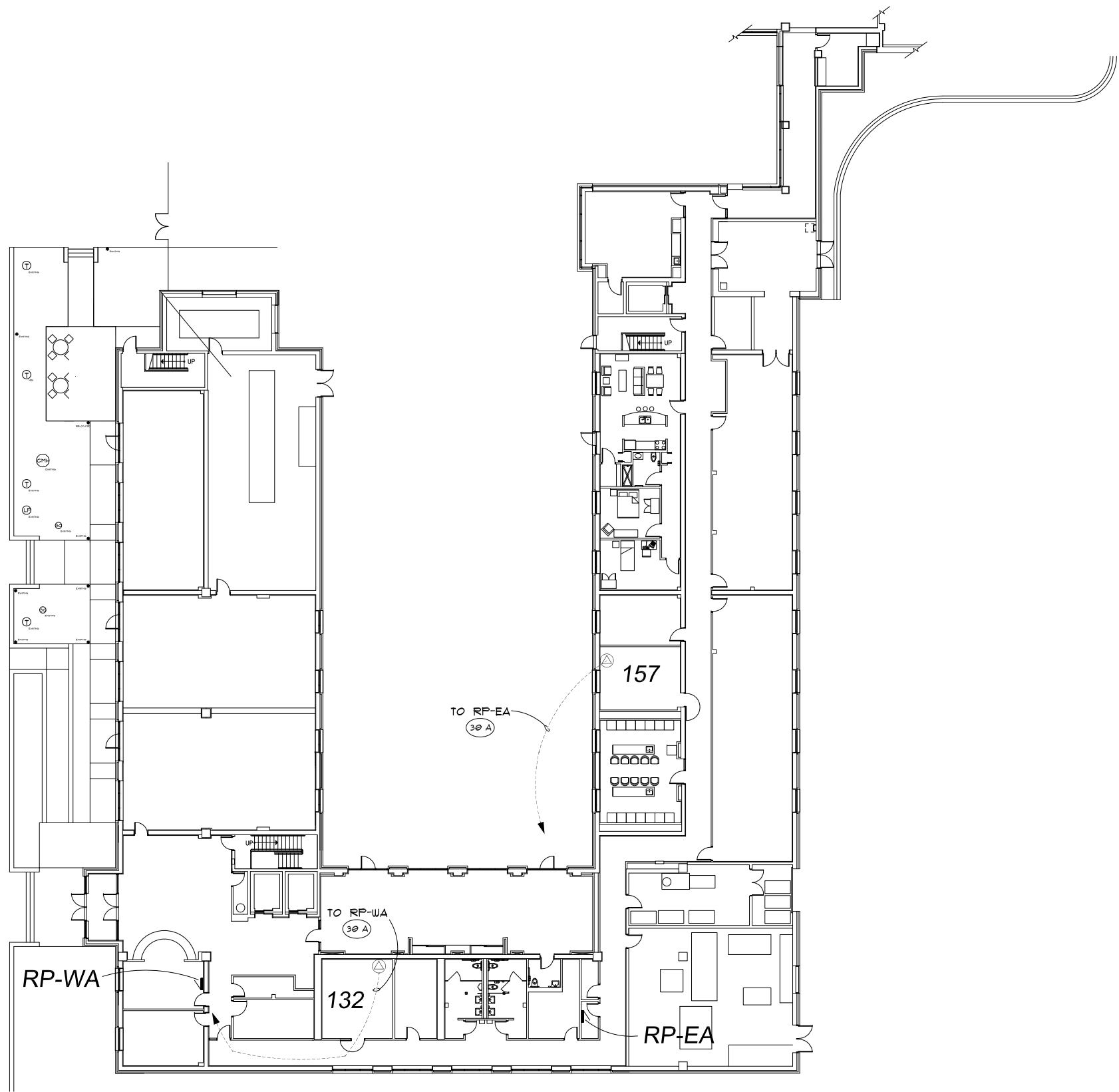
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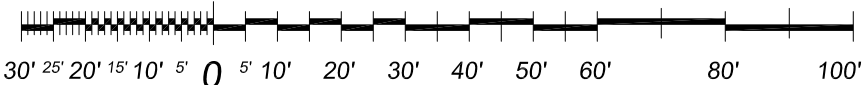
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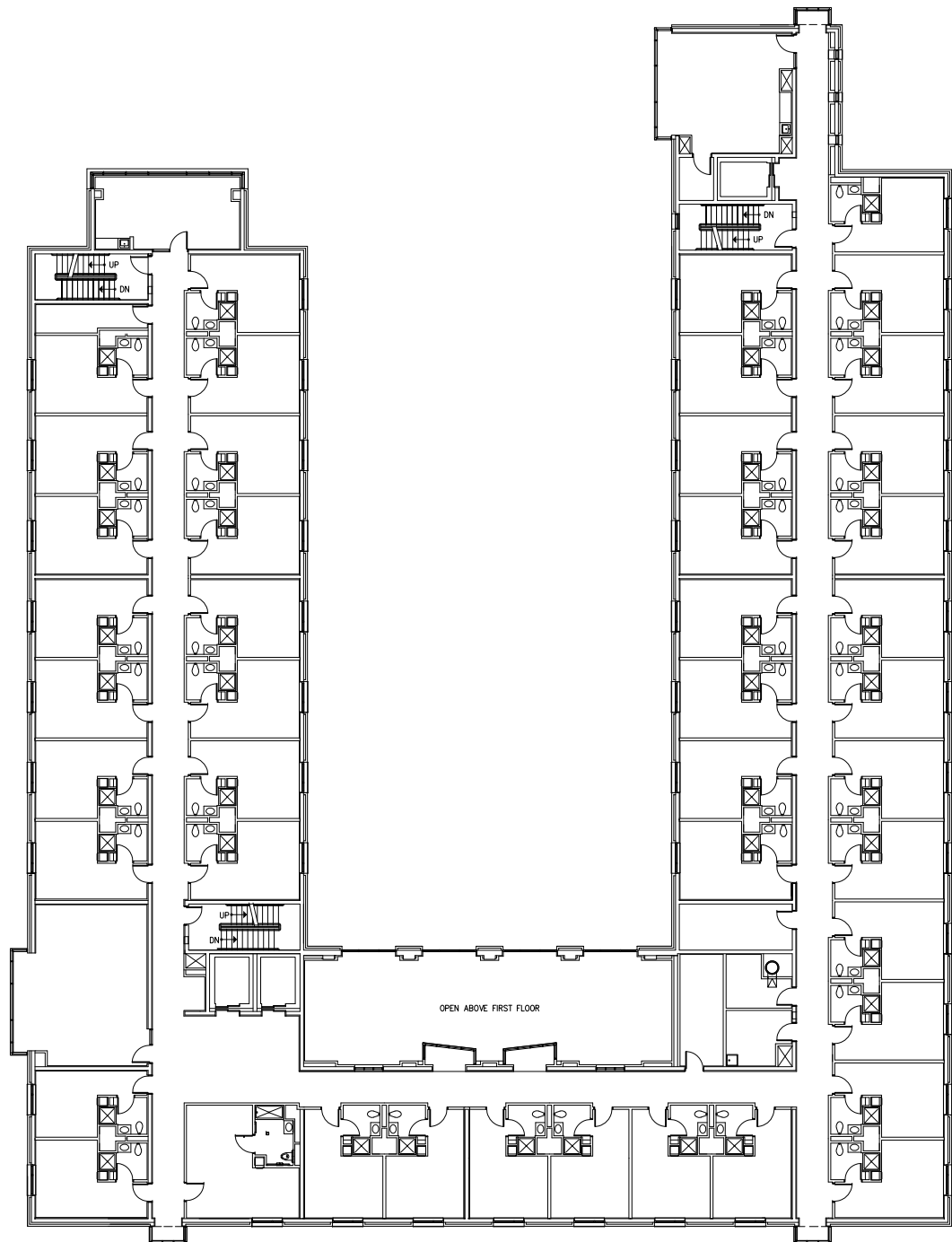


# First Floor Power Plan

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





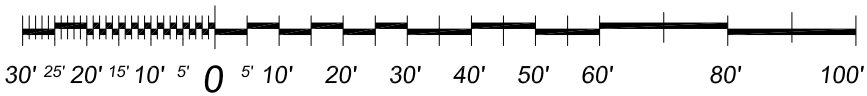


Reference Only



Second Floor Power Plan

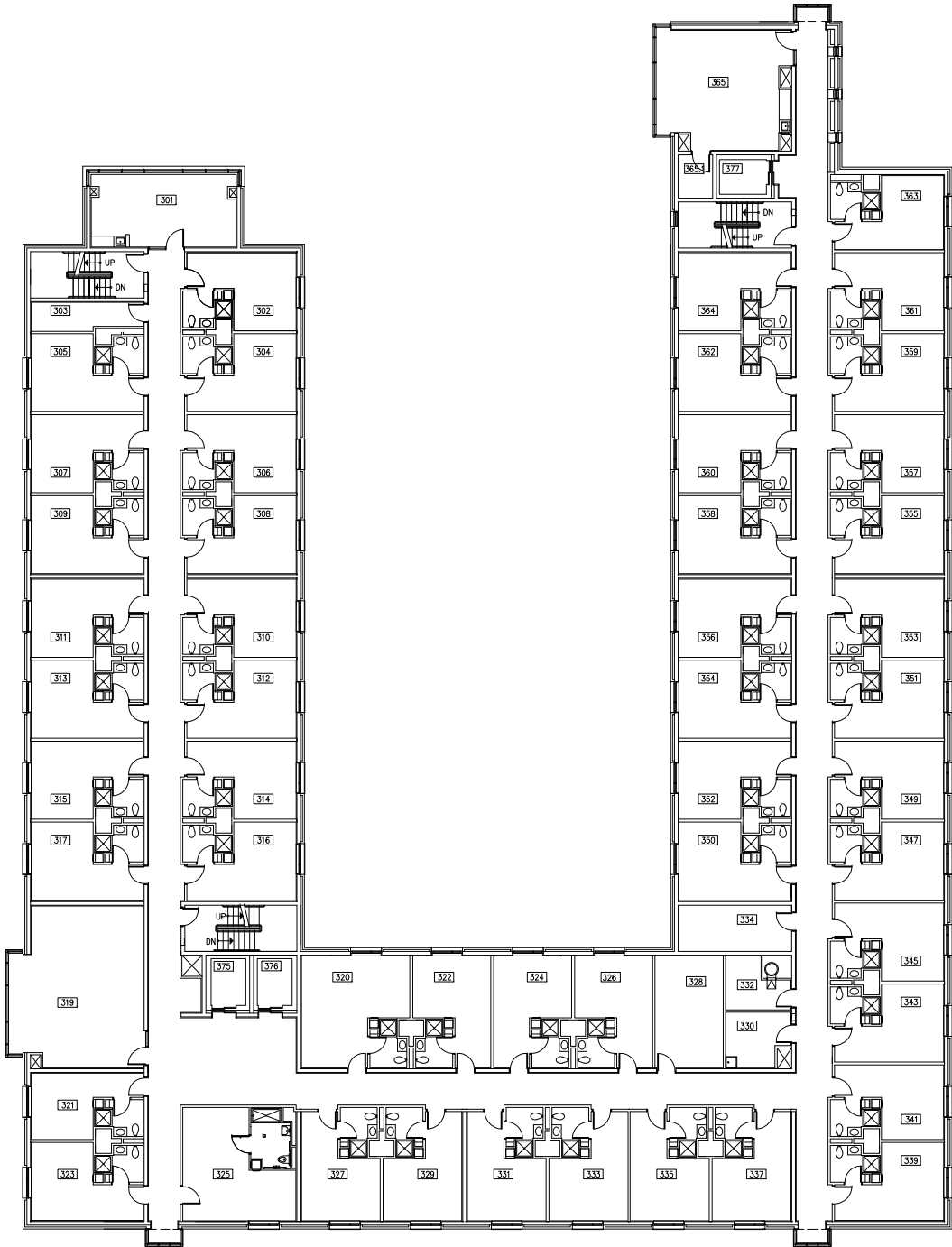
Scale : 1/32" = 1'-0"



WAYNE STATE UNIVERSITY - Facilities Planning & Management  
CSC TELECOM ELECTRICAL UPGRADE  
PROJECT TITLE :  
104 Atchison Hall  
V O I P - Phase 3B  
SHEET :  
Second Floor Power Plan

DATE :  
May, 05, 2016  
ISSUE :  
BIDS  
PROJECT NUMBER  
#193-248452  
SHEET NO.  
E-2

WAYNE STATE UNIVERSITY  
REVISIONS :  
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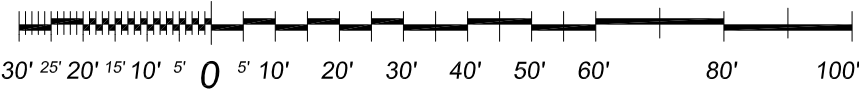


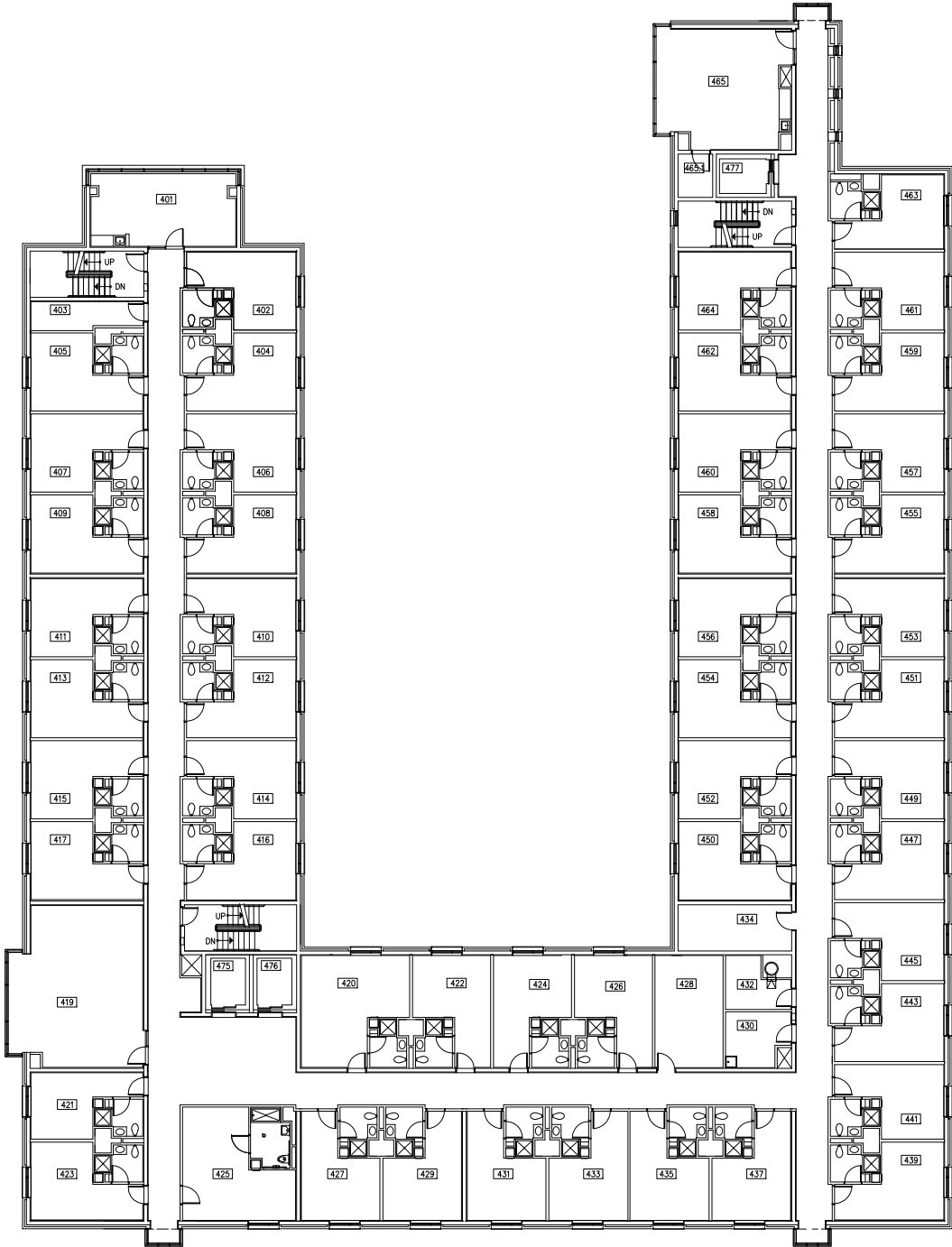
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Third Floor Power Plan

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



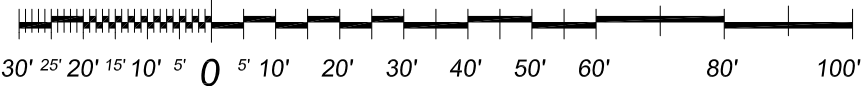


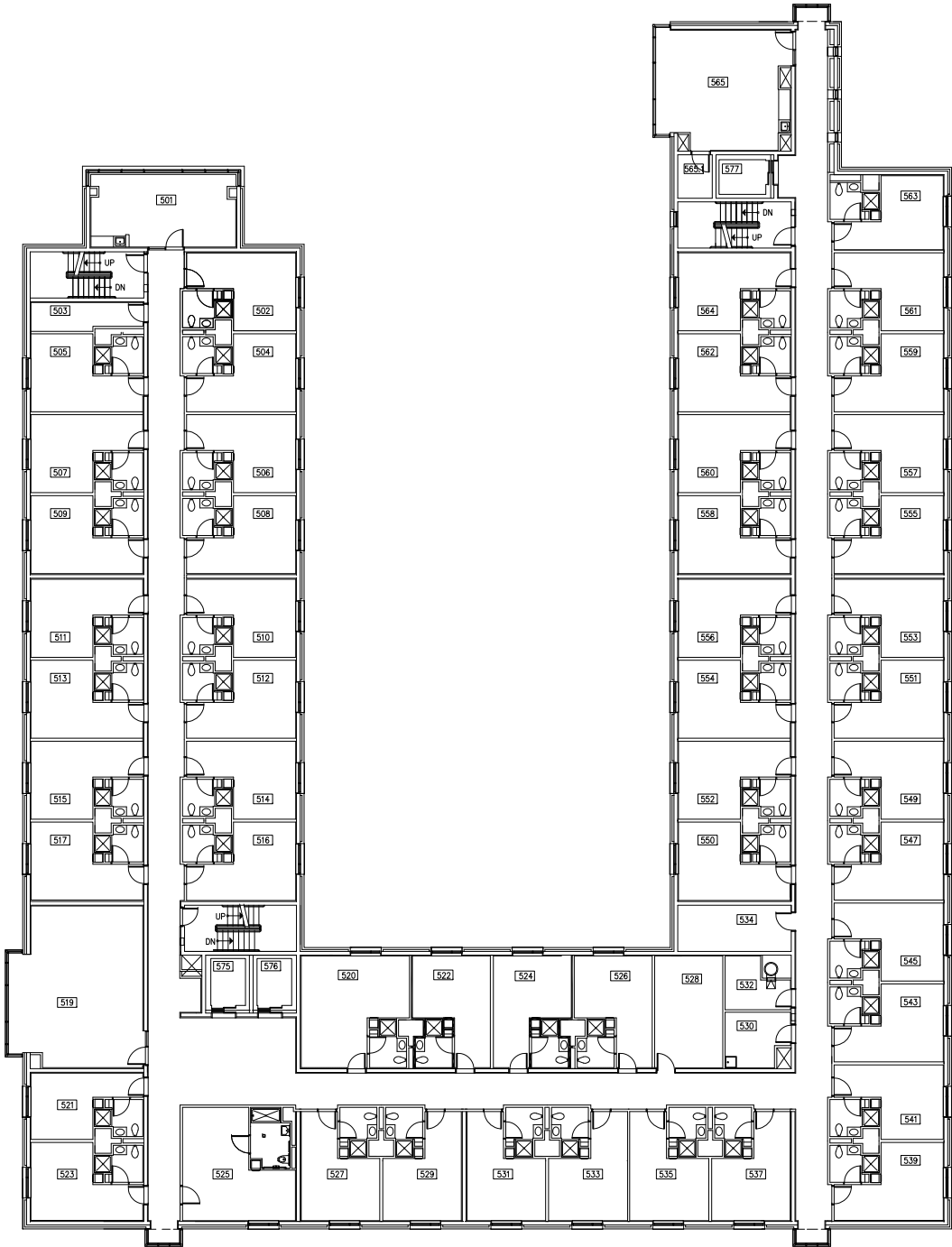
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Fourth Floor Power Plan

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



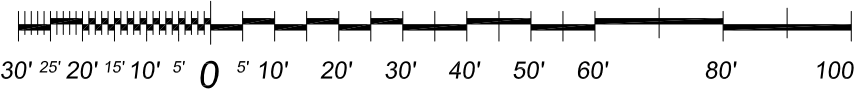


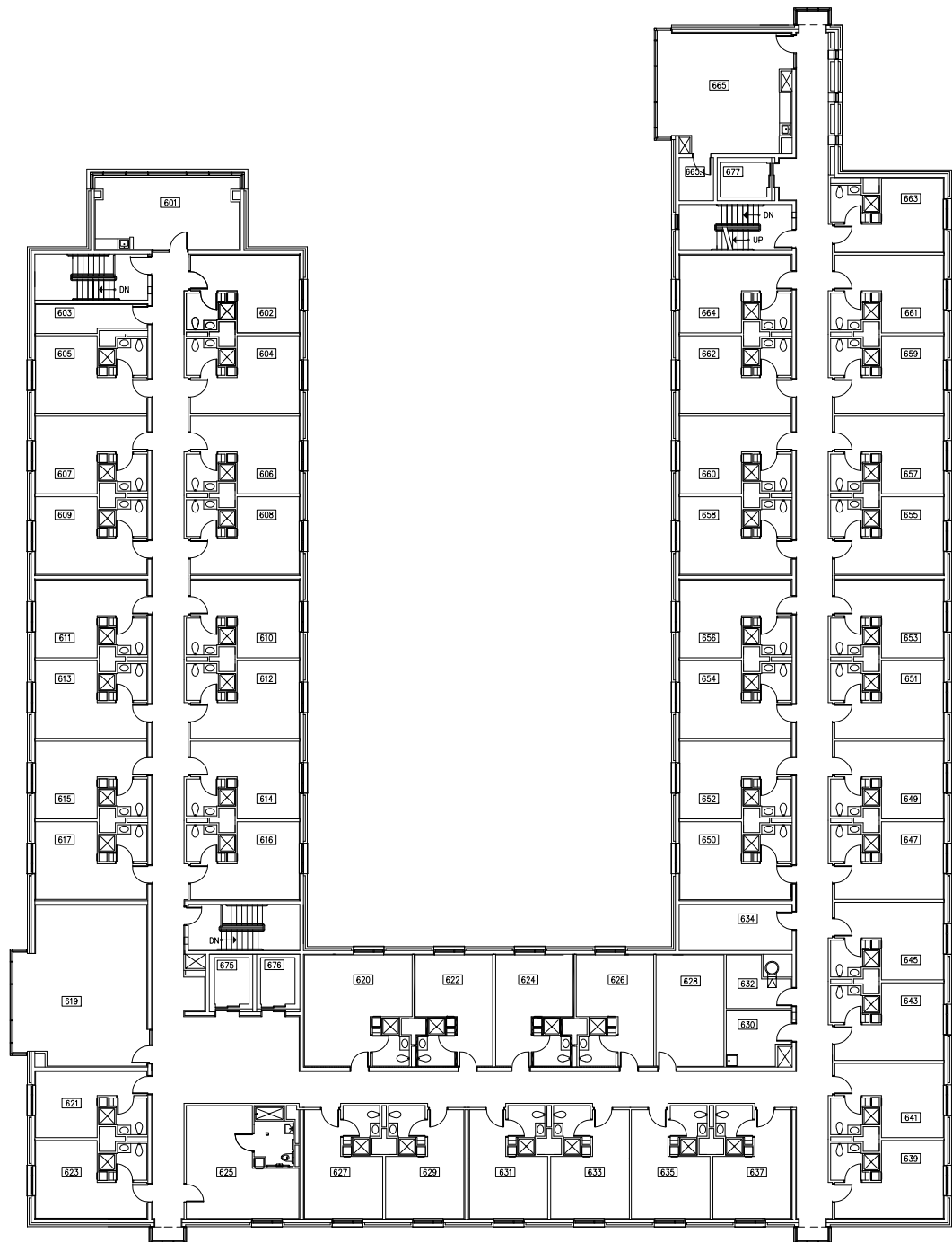
Reference Only



Fifth Floor Power Plan

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





Reference Only



**Sixth Floor Power Plan**

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

30' 25' 20' 15' 10' 5' 0 5' 10' 20' 30' 40' 50' 60' 80' 100'

WAYNE STATE UNIVERSITY

REVISIONS:


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

PROJECT TITLE: 104 Atchison Hall  
V O I P - Phase 3B

SHEET: Sixth Floor Power Plan

DATE: May, 05, 2016

ISSUE: BIDS

PROJECT NUMBER: #193-248452

SHEET NO: E-6



# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

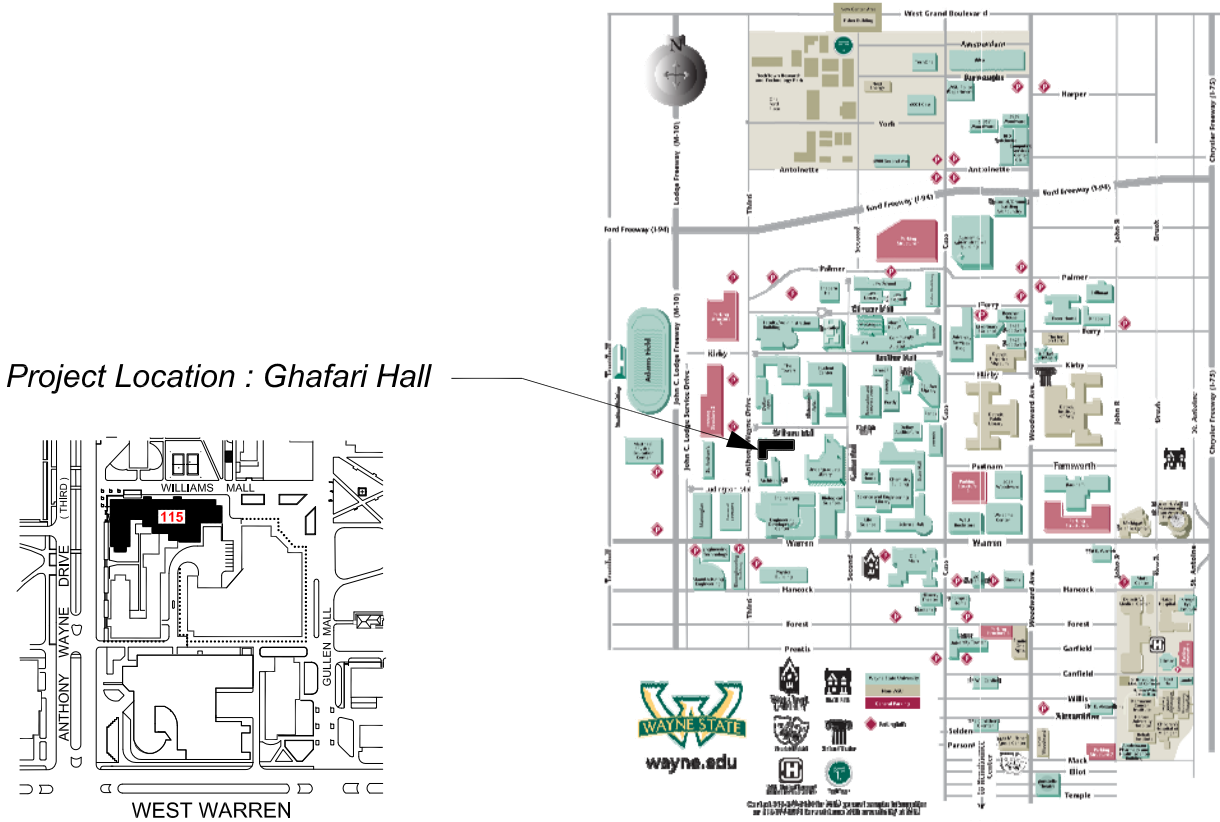
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WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016











**115 - Ghafari Hall**  
695 Williams Mall  
Detroit, Michigan 48202  
GPS : 42.356705, - 83.07157

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04	131' - 4"	8' - 8"
03	122' - 8"	8' - 8"
02	114' - 0"	8' - 8"
01	100' - 0"	14' - 0"

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

NOTE: NEUTRAL SHALL BE CAPPED AT RECEPTACLE FOR FUTURE.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE ( 1 ) NEW 30A AND/OR 20A 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.

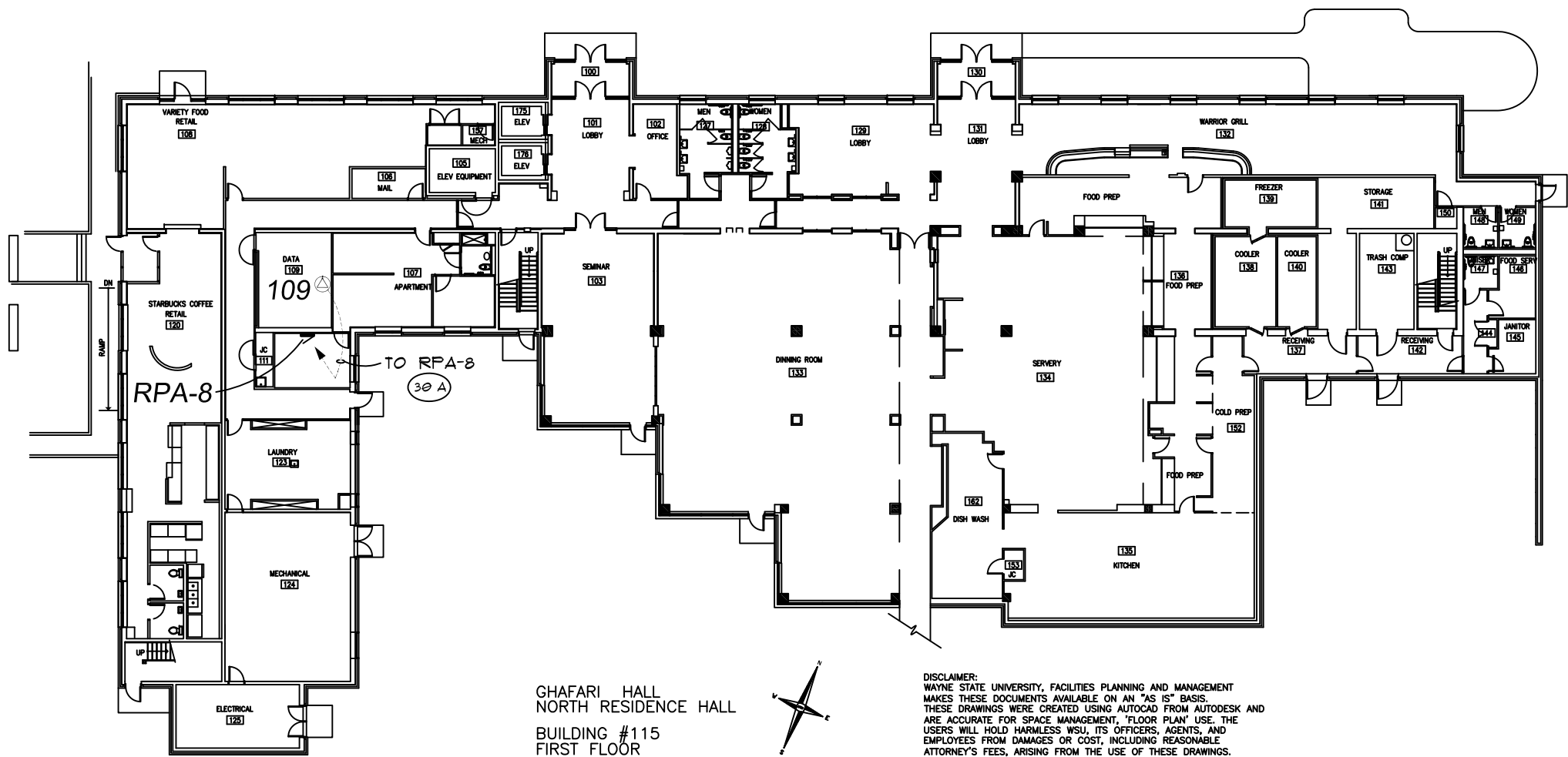
8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

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

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

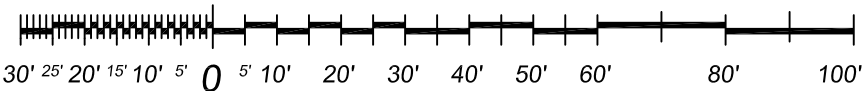
11. RECEPTACLE PANEL DESIGNATIONS ON THE DRAWINGS ARE NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD, FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

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



## First Floor Power Plan

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



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

First Floor Power Plan

115 Ghafari Hall  
V O I P - Phase 3B

DATE :  
May, 05, 2016

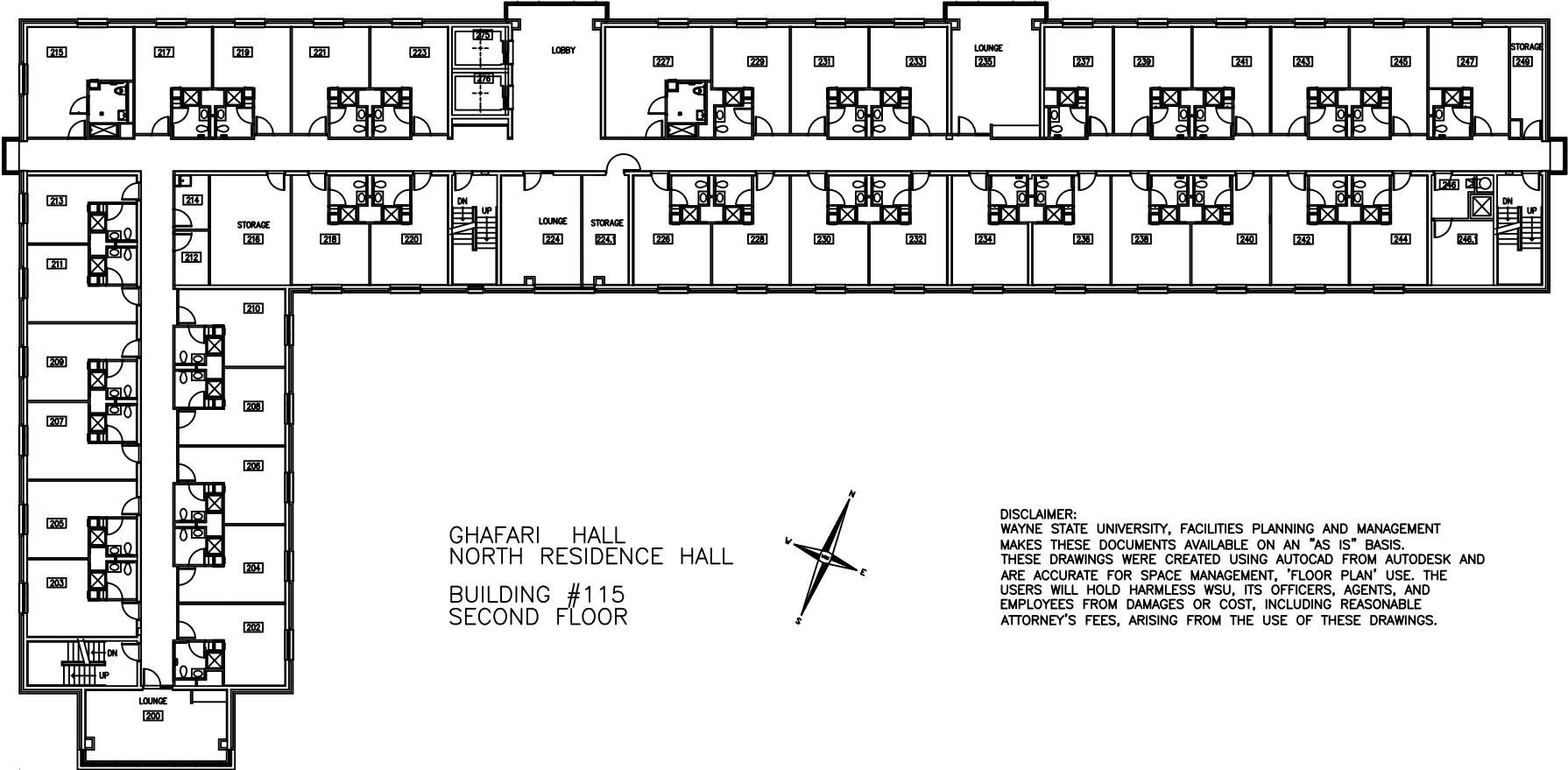
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BIDS

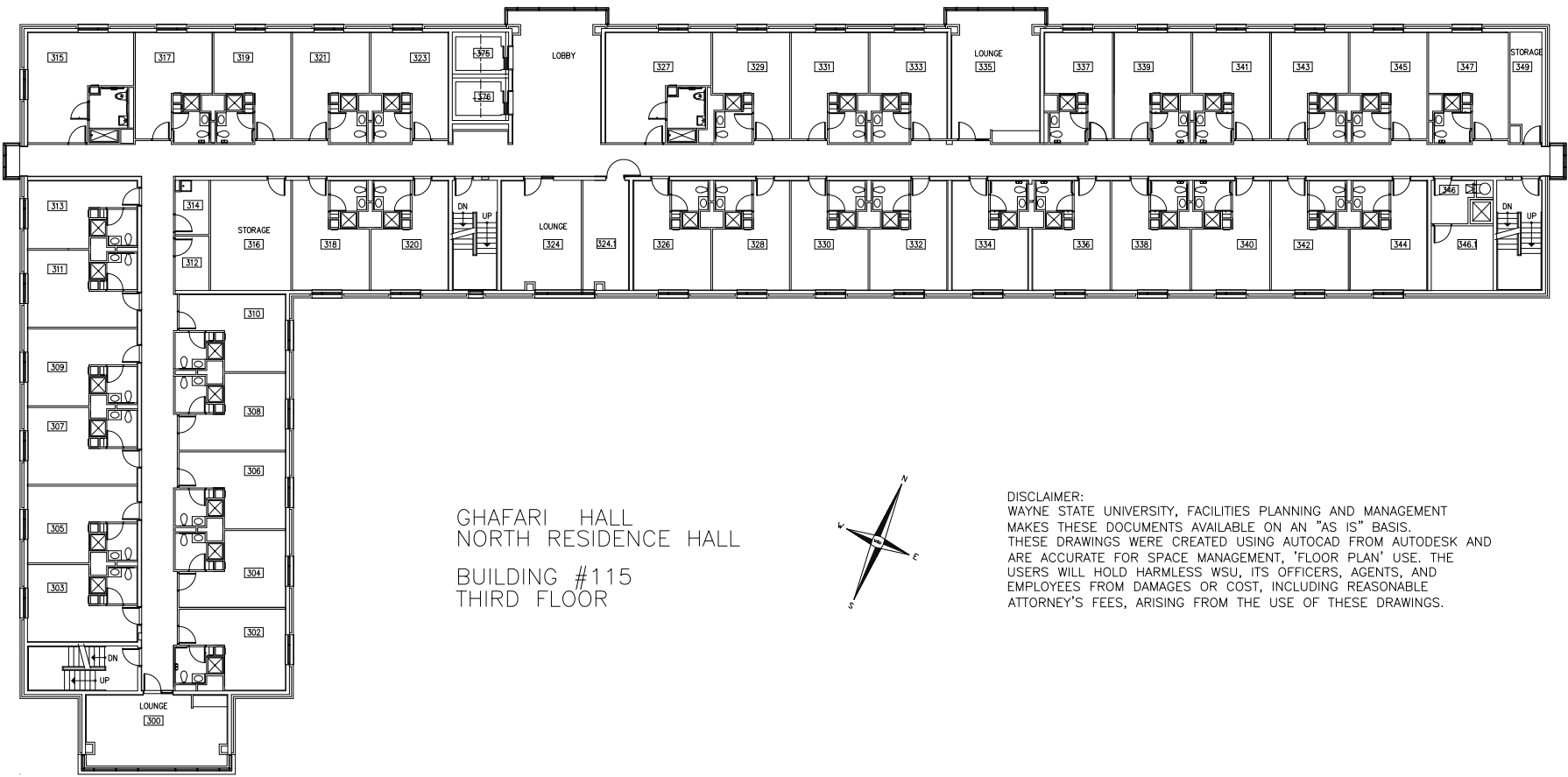
PROJECT NUMBER  
#193-248452

SHEET NO.

E-1







GHAFARI HALL  
NORTH RESIDENCE HALL  
BUILDING #115  
THIRD FLOOR

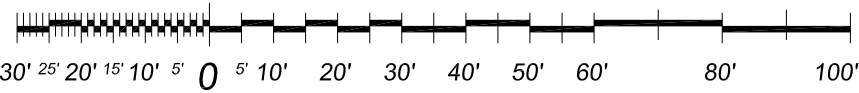
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WAYNE STATE UNIVERSITY, FACILITIES PLANNING AND MANAGEMENT  
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THESE DRAWINGS WERE CREATED USING AUTOCAD FROM AUTODESK AND  
ARE ACCURATE FOR SPACE MANAGEMENT, 'FLOOR PLAN' USE. THE  
USERS WILL HOLD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

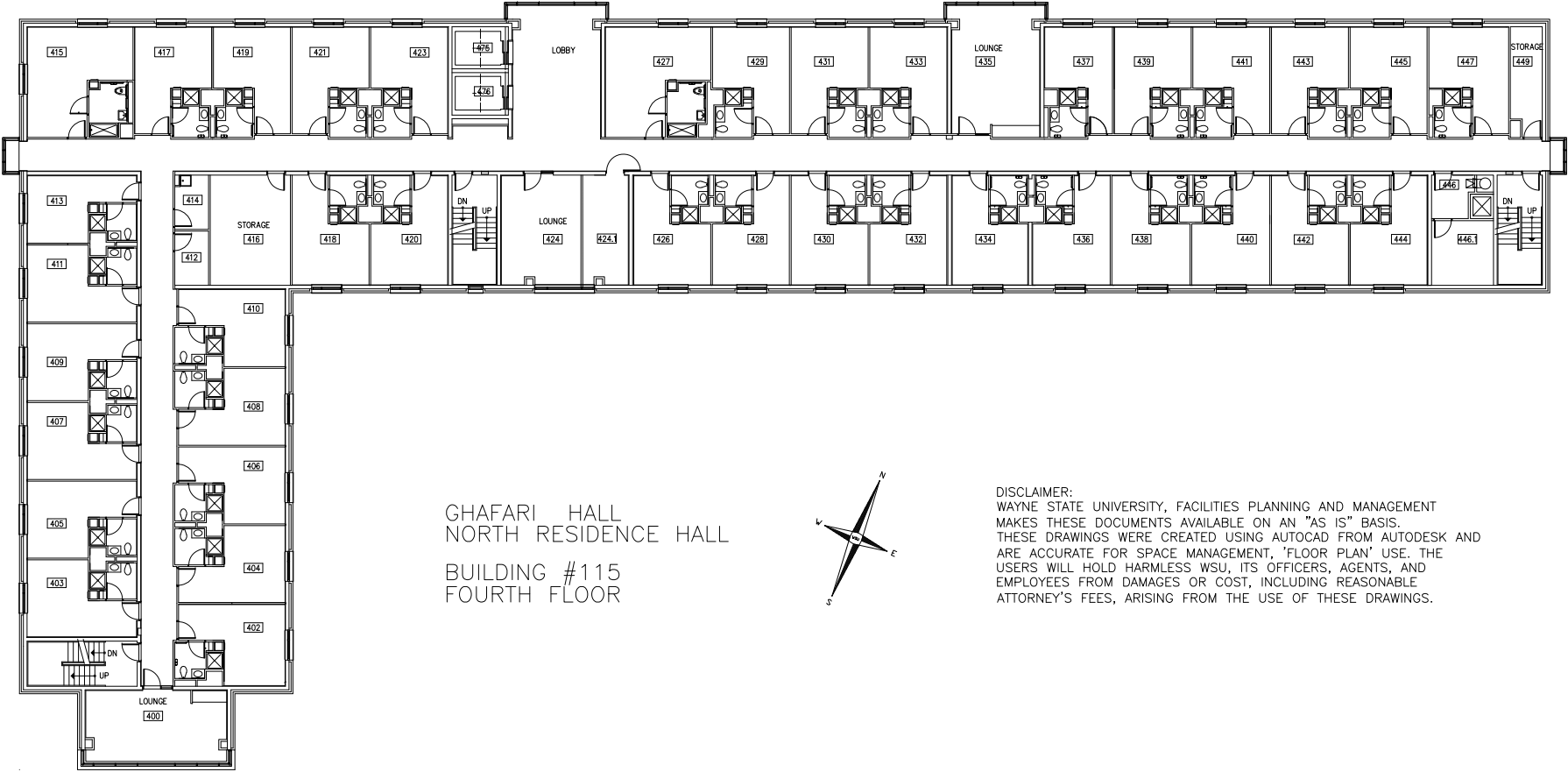
Reference Only



### Third Floor Power Plan

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





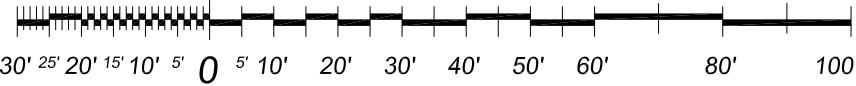
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EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE  
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

Reference Only



### Fourth Floor Power Plan

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



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

Fourth Floor Power Plan

115 Ghafari Hall  
VOIP - Phase 3B

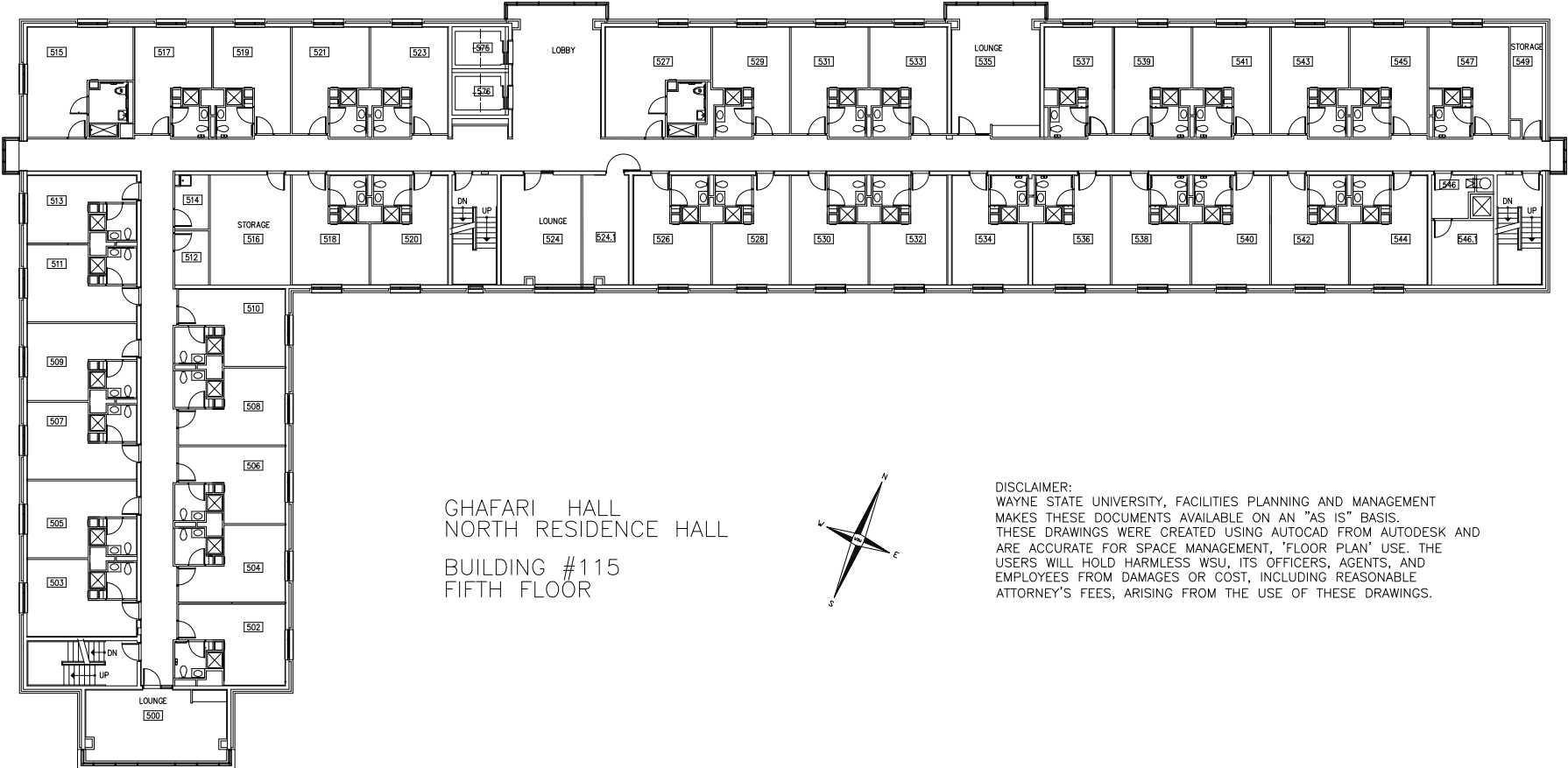
DATE :  
May, 05, 2016

ISSUE :  
BIDS

PROJECT NUMBER  
#193-248452

SHEET NO.

E-4



GHAFARI HALL  
NORTH RESIDENCE HALL  
BUILDING #115  
FIFTH FLOOR

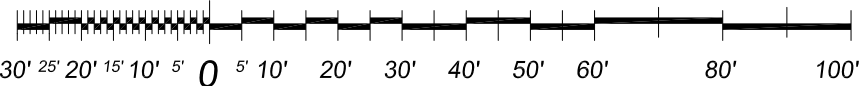
DISCLAIMER:  
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ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE  
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND  
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE  
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

Reference Only



Fifth Floor Power Plan

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



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

Fifth Floor Power Plan

115 Ghafari Hall  
VOIP - Phase 3B

DATE :  
May, 05, 2016

ISSUE :

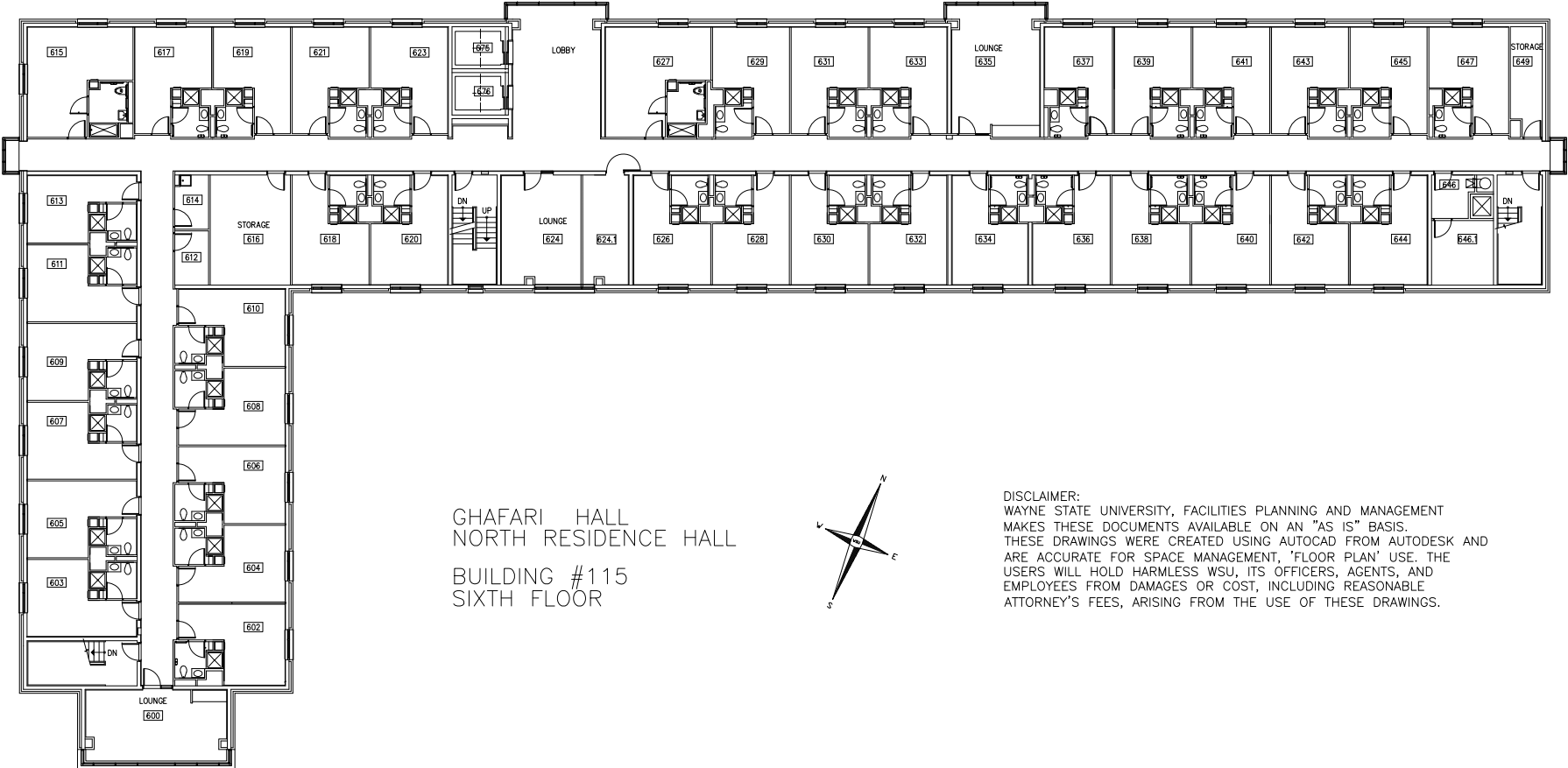
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PROJECT NUMBER

#193-248452

SHEET NO.

E-5



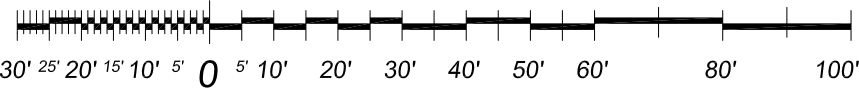
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ARE ACCURATE FOR SPACE MANAGEMENT, "FLOOR PLAN" USE. THE  
USERS WILL HOLD HARMLESS WSU, ITS OFFICERS, AGENTS, AND  
EMPLOYEES FROM DAMAGES OR COST, INCLUDING REASONABLE  
ATTORNEY'S FEES, ARISING FROM THE USE OF THESE DRAWINGS.

Reference Only



### Sixth Floor Power Plan

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



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

Sixth Floor Power Plan

115 Ghafari Hall  
VOIP - Phase 3B

DATE :  
May, 05, 2016  
ISSUE :  
BID9

PROJECT NUMBER  
#193-248452

SHEET NO.  
E-6



# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

WSU PROJECT NO. 193 - 2 4 8 4 5 2  
**B I D S** May 10, 2016

### 608 - Mazurek Medical Educ Comm.

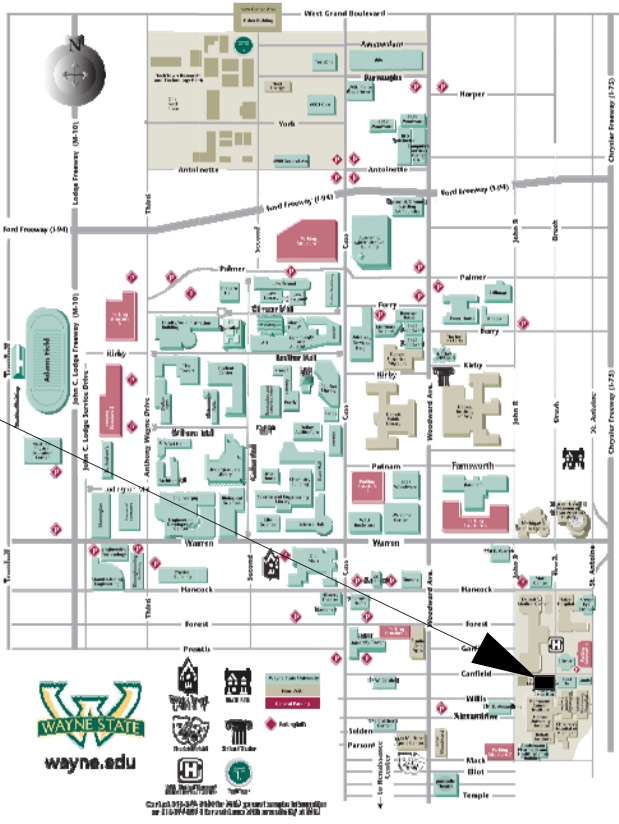
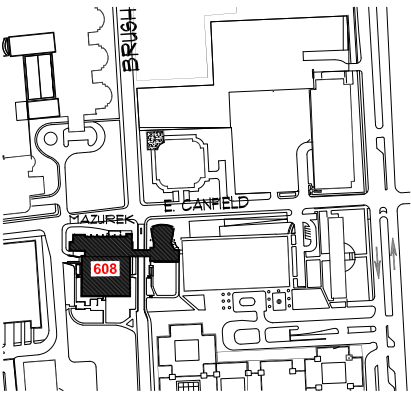
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Detroit, Michigan 48202

GPS : 42.353723, - 83.057048











### 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 : Mazurek M.E.C.



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	MAZUREK MEDICAL EDUCATION COMMONS	119	YES	.	
		141.02	YES	.	
		205	YES	.	
		223	YES	.	
		314	YES	.	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
FNTHSE	186' - 9 1/8" SLAB	187' - 3 3/4" ROOF
03	173' - 4"	13' - 5 1/8"
02	160' - 4"	13' - 0 "
01	147' - 0"	13' - 4"

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

NOTE: NEUTRAL SHALL BE CAPPED AT RECEPTACLE FOR FUTURE.

2. THE CONTRACTOR SHALL REWORK EXISTING CIRCUITS IN RECEPTACLE PANELS TO ALLOW FOR THE INSTALLATION OF ONE ( 1 ) NEW 30A AND/OR 20A 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.

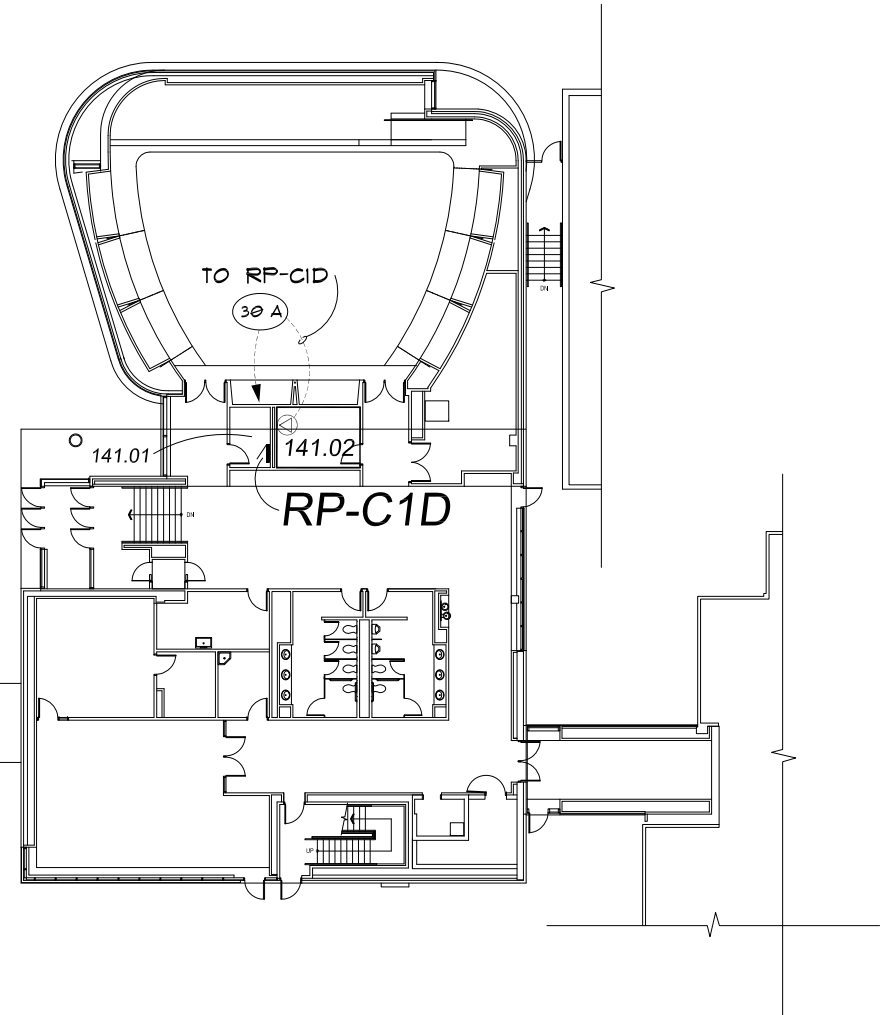
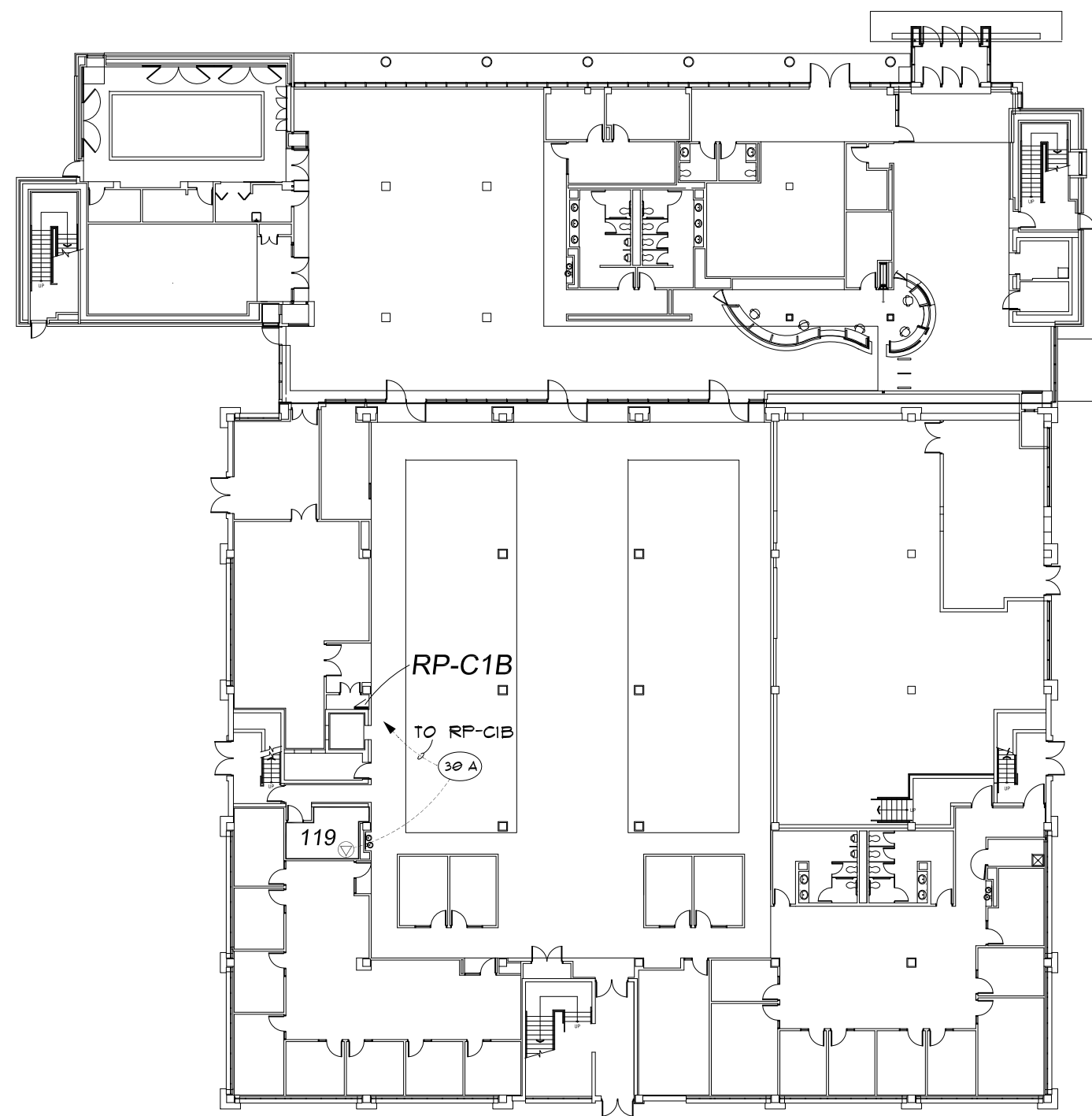
8. THE CONTRACTOR SHALL PROVIDE A LABEL WITH THE RECEPTACLE PANEL DESIGNATION AND CIRCUIT NUMBER AT THE DEVICE.

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

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

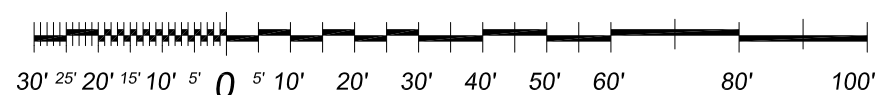
11. RECEPTACLE PANEL DESIGNATIONS ON THE DRAWINGS ARE NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD, FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

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



# First Floor Power Plan

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



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

PROJECT TITLE :  
608 Mazurek Medical Ed Comm  
V O I P - Phase 3B

SHEET :  
First Floor Power Plan

DATE :  
May, 05, 2016

ISSUE :  
BIDS

PROJECT NUMBER  
#193-248452

SHEET NO.

E-1

REVISIONS :

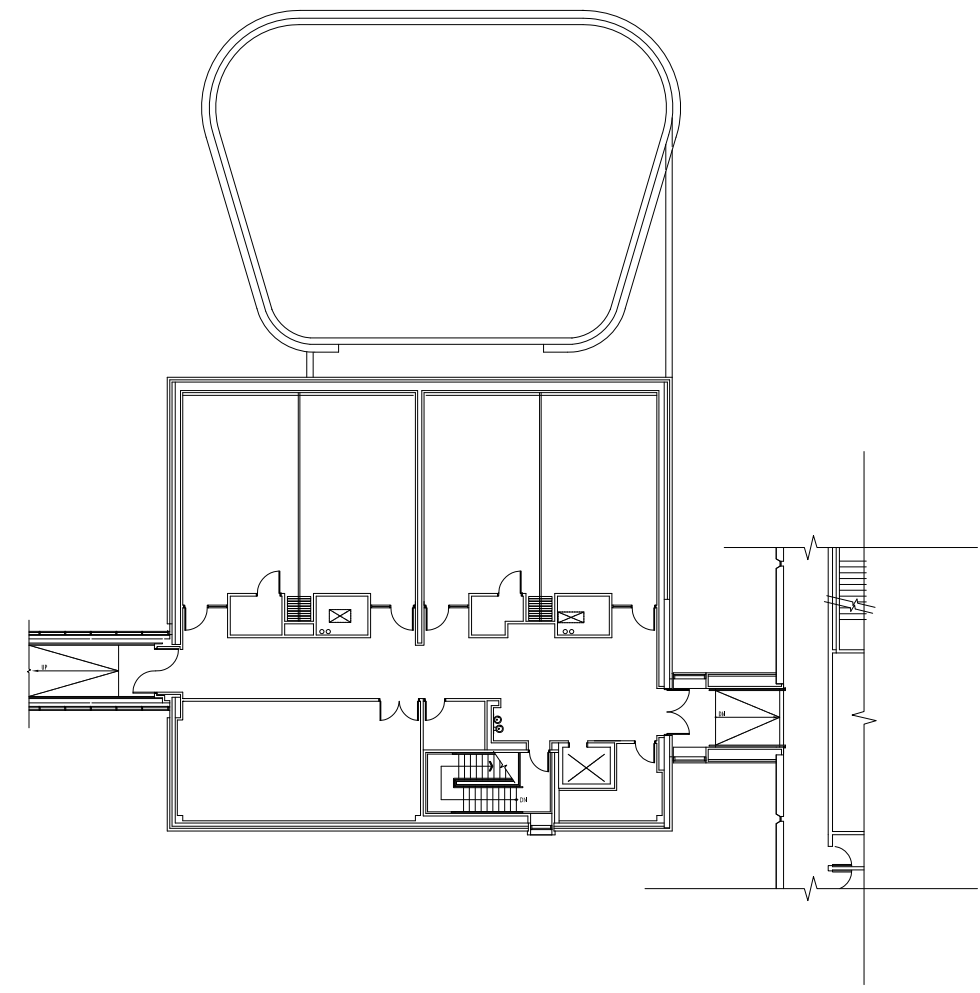
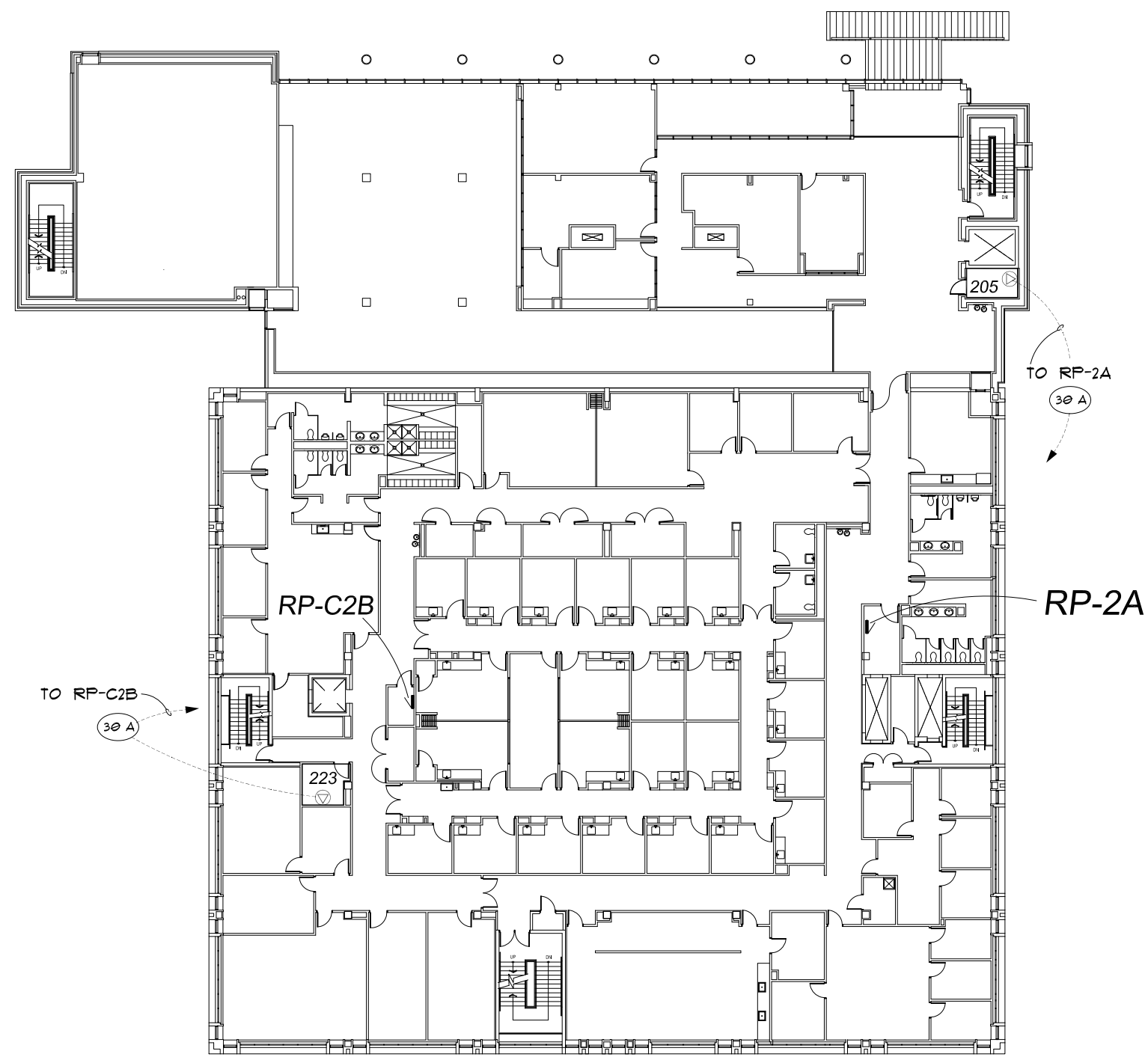
WAYNE STATE  
UNIVERSITY



REVISIONS:

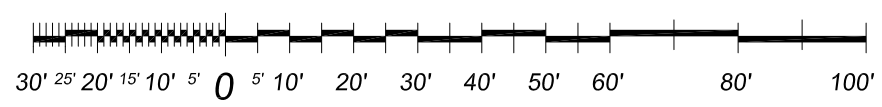
WAYNE STATE UNIVERSITY - Facilities Planning & Management
CSC TELECOM ELECTRICAL UPGRADE
PROJECT TITLE:
608 Mazurek Medical Ed Comm
V O I P - Phase 3B
SHEET:
Second Floor Power Plan

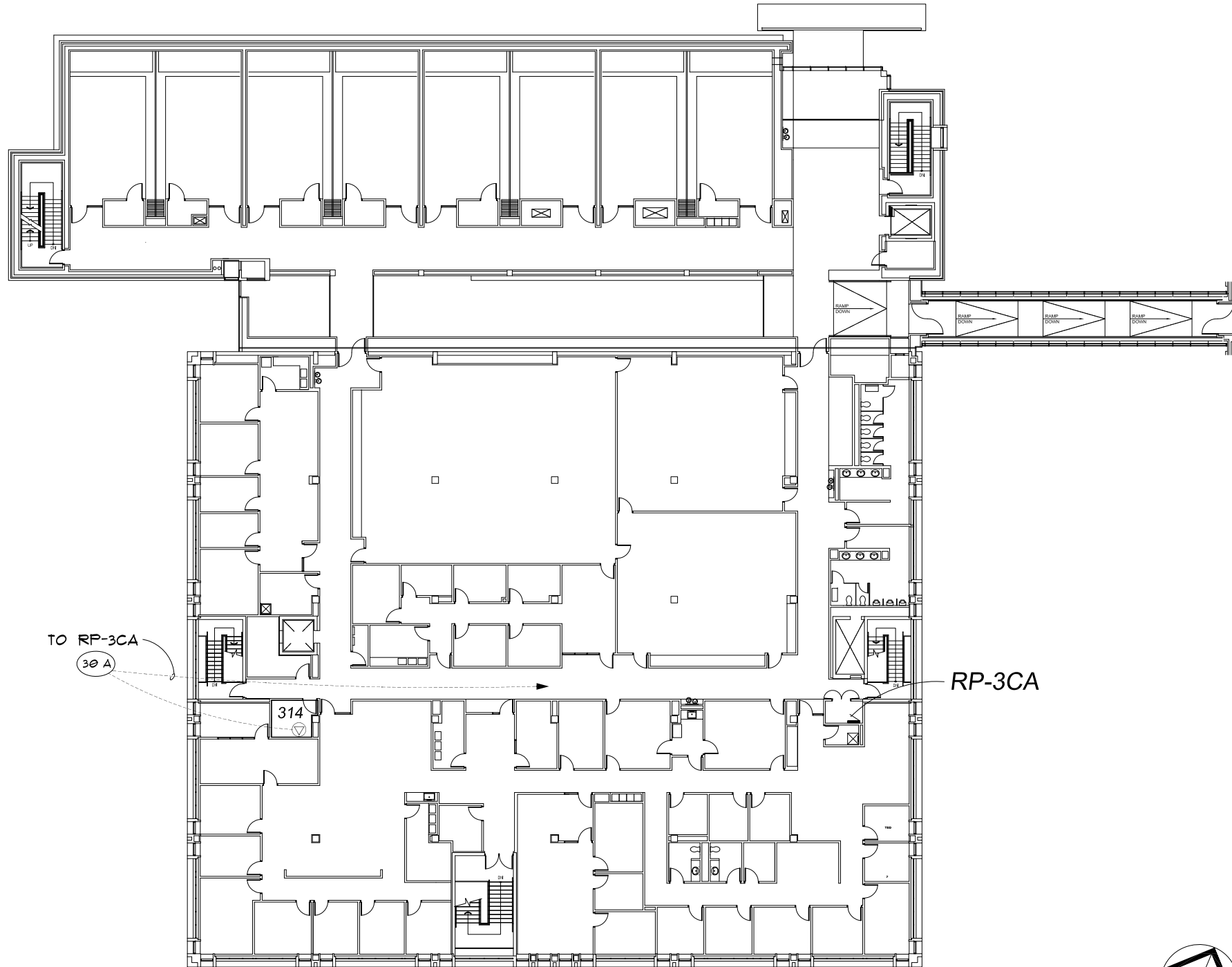
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May, 05, 2016
ISSUE:
BIDS
PROJECT NUMBER
#193-248452
SHEET NO.
E-2



## Second Floor Power Plan

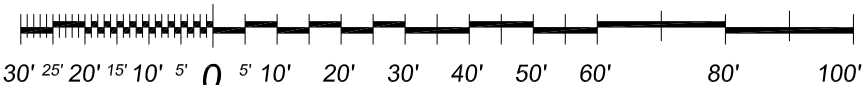
Scale : 1/32" = 1'-0"





### Third Floor Power Plan

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





# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

WSU PROJECT NO. 193 - 2 4 8 4 5 2

**B I D S** May 10, 2016

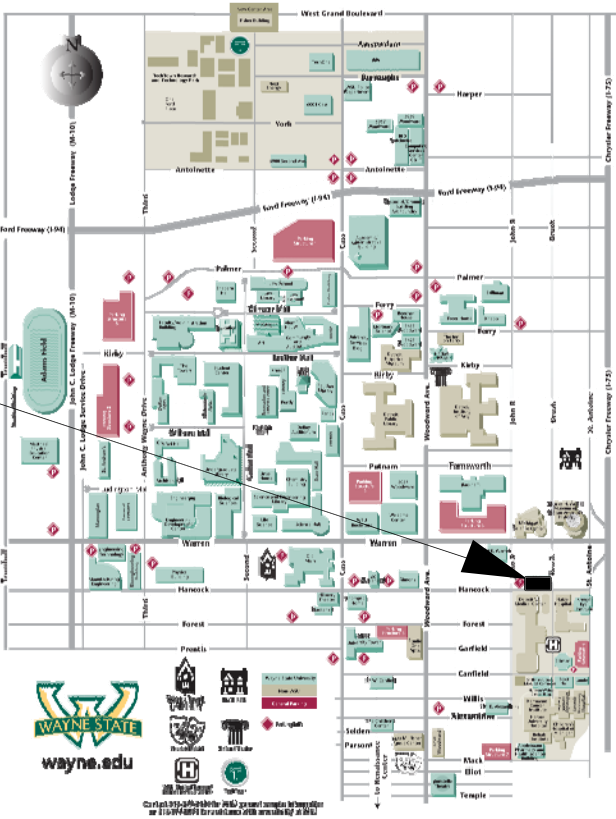
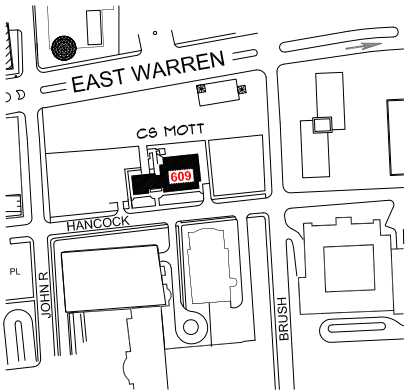
**609 - Mott Center**  
275 East Hancock Avenue  
Detroit, Michigan 48202

GPS : 42.357448, - 83.06072











### 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 : C S Mott Center



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	C S MOTT CENTER	054	.	YES	
		081.6	.	YES	
		146	.	YES	
		198	.	YES	
		262	.	YES	
		296	.	YES	
		336	.	YES	
		369	.	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
FNTHSE	214' - 2" ROOF SLAB	215' - 9 1/2" *
03	181' - 6"	14' - 0"
02	173' - 6"	14' - 0 "
01	151' - 6"	16' - 0"
GROUND	143' - 6"	14' - 0"

\* TOP OF COPING

SCOPE OF WORK

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

1. PROVIDE 30 AND/OR 20 AMP 208 VOLT 2-POLE SINGLE PHASE WITH GROUND AND NEUTRAL, FROM EXISTING RECEPTACLE PANEL TERMINATED INTO A L6-30R AND OR L6-20R N.E.M.A. RECEPTACLE IN C & IT CLOSET ( AS DESIGNATED IN VOIP - PHASE 3 BUILDING AND ROOM SCHEDULE ) COMPLETE WITH DISCONNECT SWITCH IN C & IT CLOSET. EXACT LOCATION OF L6-30R AND/OR L6-20R OUTLETS TO BE FIELD COORDINATED WITH C & IT. ELECTRICAL CONTRACTOR TO INSTALL OWNER FURNISHED P.D.U./POWER STRIP, EXACT LOCATION TO BE FIELD COORDINATED WITH C & IT.

NOTE: NEUTRAL SHALL BE CAPPED AT RECEPTACLE FOR FUTURE.

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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.

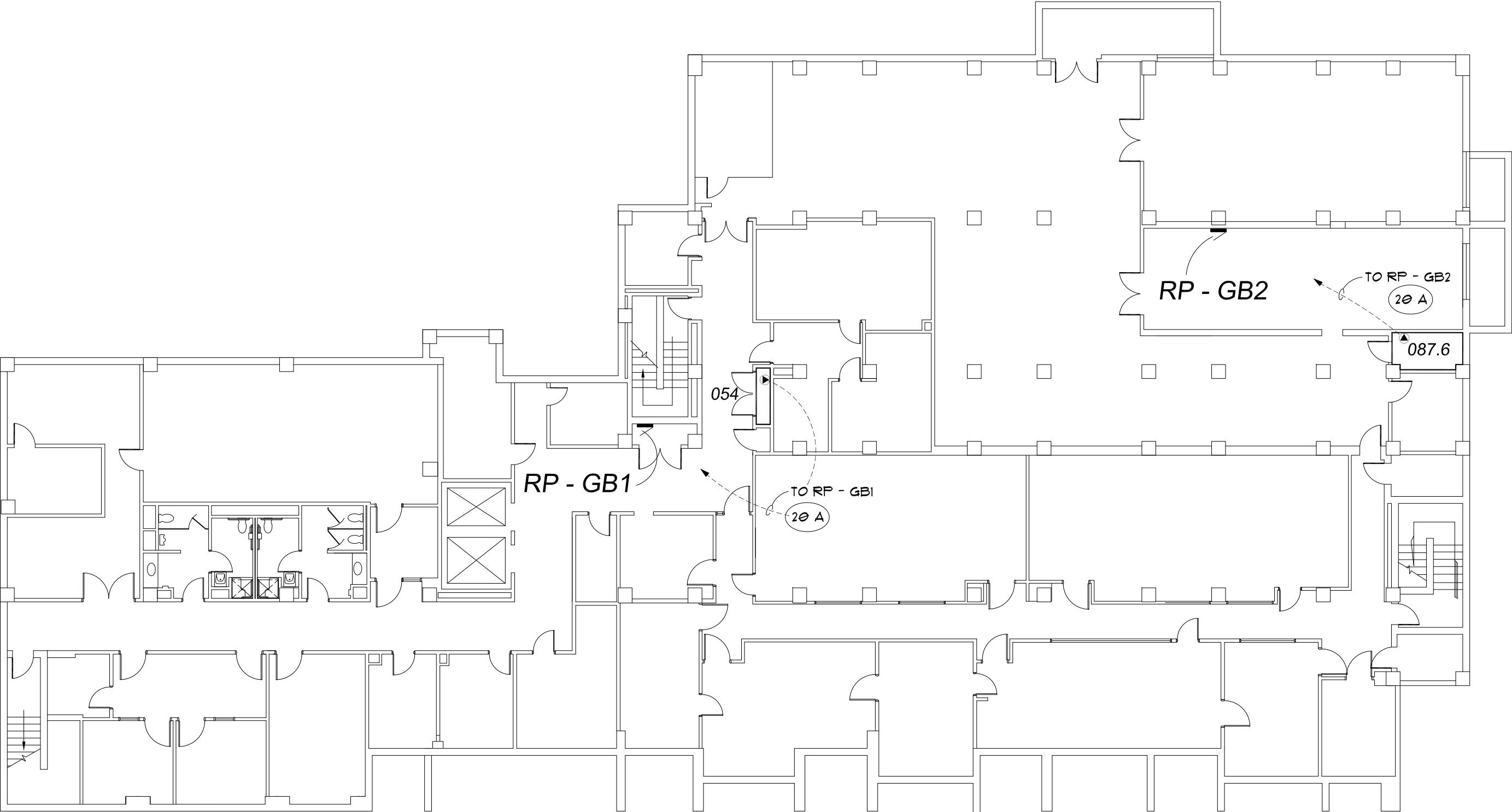
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11. RECEPTACLE PANEL DESIGNATIONS ON THE DRAWINGS ARE NOT NECESSARILY THE RECEPTACLE PANEL DESIGNATION IN THE FIELD, FOR LABELING USE THE RECEPTACLE PANEL DESIGNATION IN THE FIELD.

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



Basement Floor Power Plan

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



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

PROJECT TITLE :  
609 C S Mott Center  
VOIP - Phase 3B

SHEET :  
Basement Floor Power Plan

DATE :  
May, 05, 2016

ISSUE :  
BIDS

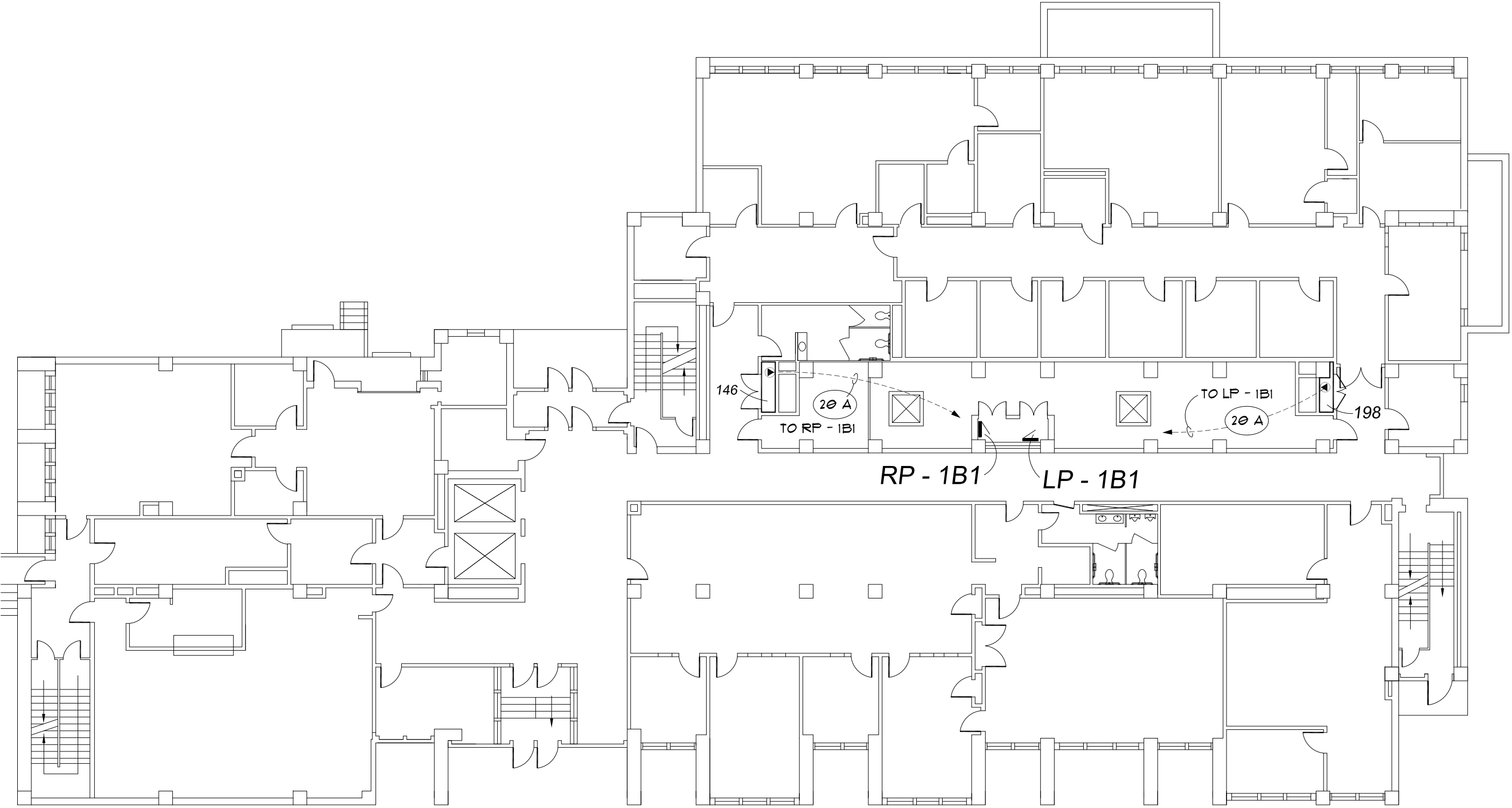
PROJECT NUMBER  
#193-248452

SHEET NO.  
E-1

REVISIONS:

WAYNE STATE UNIVERSITY - Facilities Planning & Management CSC TELECOM ELECTRICAL UPGRADE	First Floor Power Plan
PROJECT TITLE:	SHEET:
609 C S Mott Center VOIP - Phase 3B	

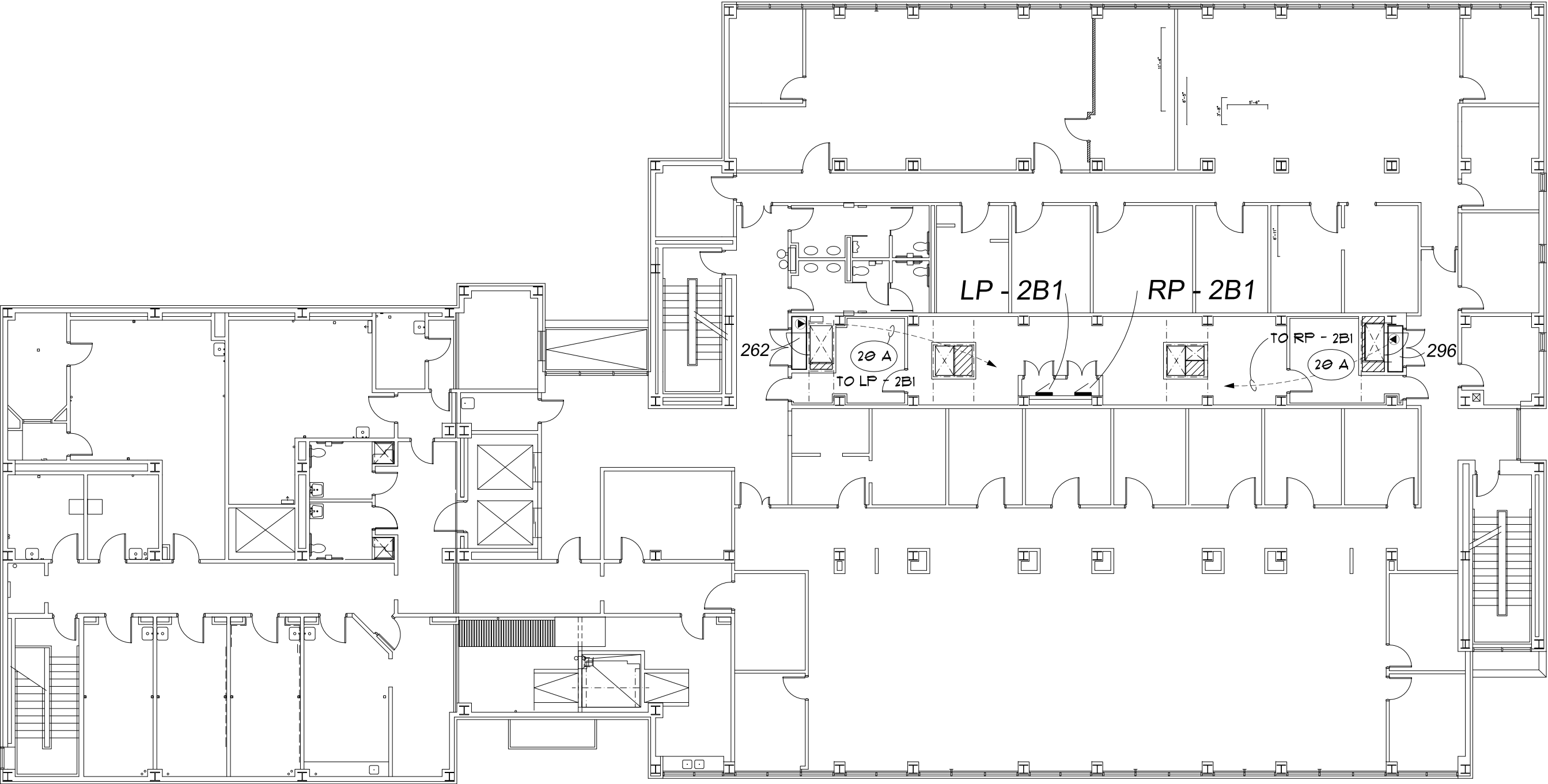
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ISSUE: BID#
PROJECT NUMBER: #193-248452
SHEET NO: E-2



First Floor Power Plan

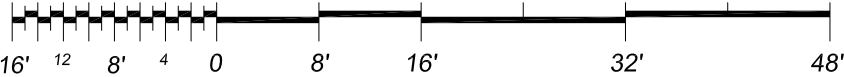
Scale : 1/16" = 1'-0"





Second Floor Power Plan

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



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

PROJECT TITLE :  
609 C S Mott Center  
VOIP - Phase 3B

SHEET :  
Second Floor Power Plan

DATE :  
May, 05, 2016

ISSUE :  
BID'S

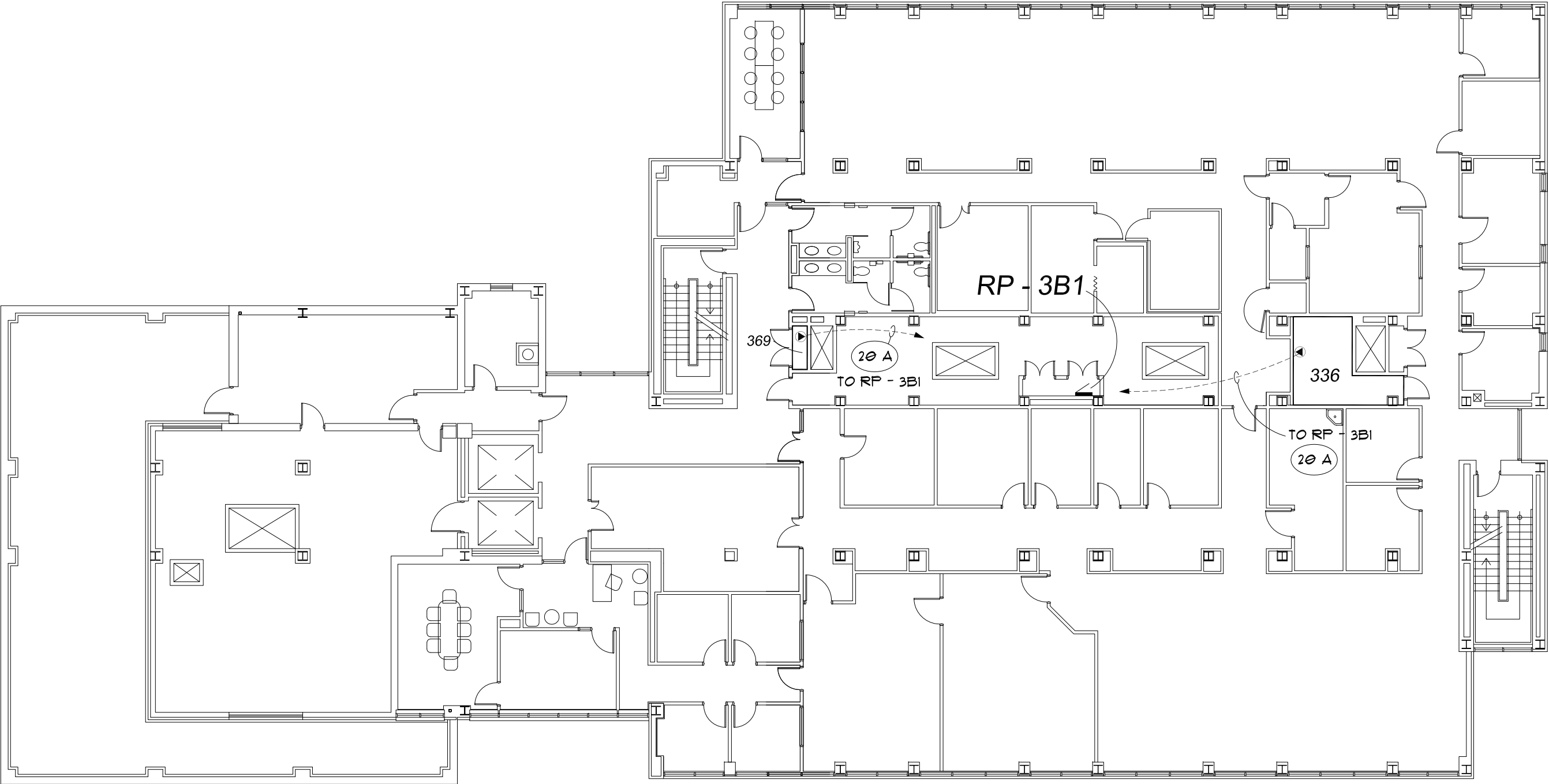
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#193-248452

SHEET NO

E-3

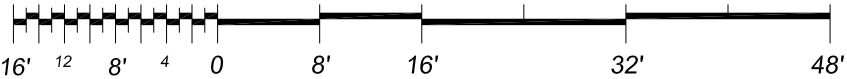
REVISIONS :

WAYNE STATE  
UNIVERSITY



Third Floor Power Plan

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







# WAYNE STATE UNIVERSITY

Facilities Planning & Management - Design & Construction Services

## CSC TELECOM ELECTRICAL UPGRADE

**VOIP - Phase 3B** Includes : 064 Beecher House, 078 Stadium Auxillary Facility, 079 WSU Stadium & Press Box, 080 Matthaei, 091 Athletic Multi-Purpose Indoor Facility, 099 Women's Softball Facility, 104 Atchison, 115 Ghafari, 608 Mazurek Med Ed Commons, 609 Mott Center, 611 Lande

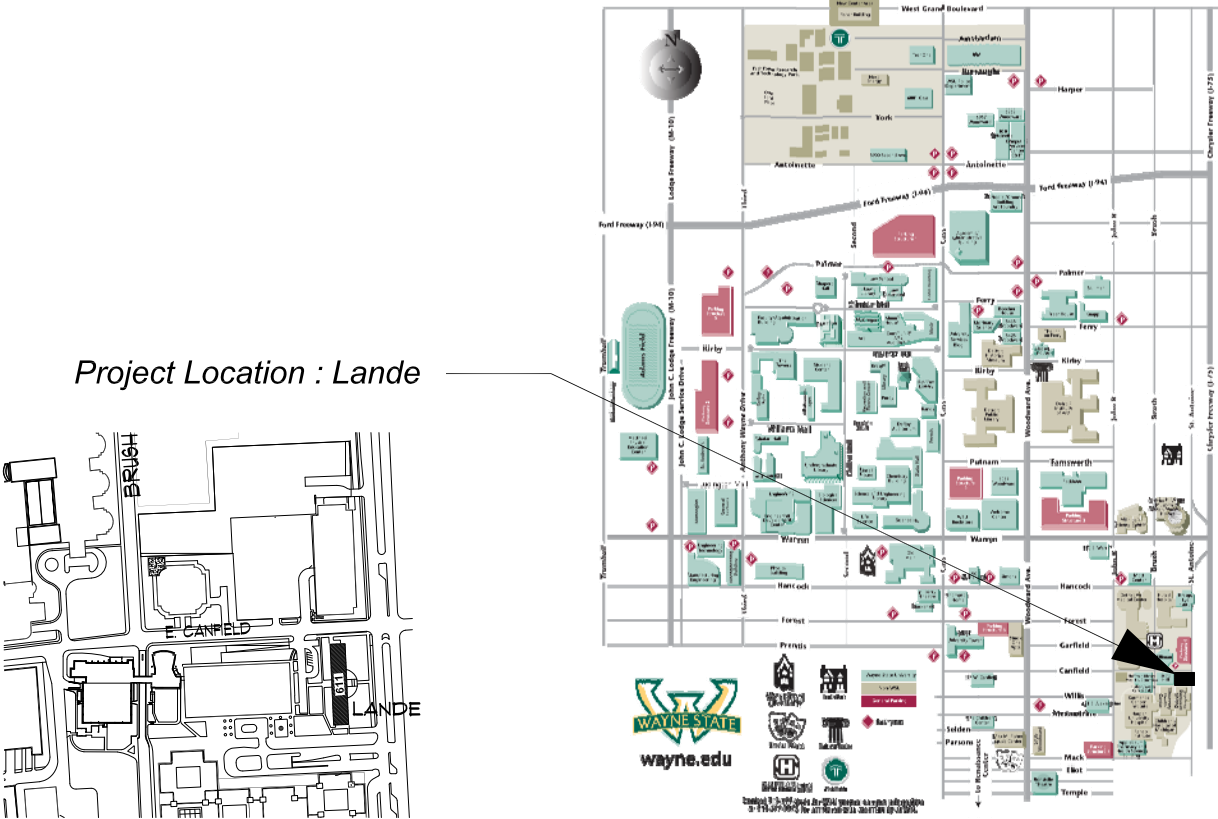
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**B I D S** May 10, 2016

**611 - Lande**  
550 East Canfield Avenue  
Detroit, Michigan 48202











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### 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
E-5	FOURTH FLOOR POWER PLAN



ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE AS NOTED
	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 3B Building and Rooms

FP & M PROJECT PHASE	BUILDING NAME	ROOM NUMBER	208 VOLT SINGLE PHASE 30 AMP CIRCUIT: L6-30 R	208 VOLT SINGLE PHASE 20 AMP CIRCUIT: L6-20A	NOTES
3 B	LANDE BUILDING	035	.	YES	
		150	.	YES	
		252	.	YES	
		352	.	YES	
		452	.	YES	

NOTE : HEIGHT OF FINISH FLOOR TO FINISH FLOOR ABOVE :

FLOOR	ELEVATION	F FLR. TO F FLR. ABOVE
PNTHSE SLAB	211' - 5"	
ROOF SLAB	200' - 0 1/2"	11' - 5"
04	189' - 0"	11' - 0 1/2"
03	177' - 4"	11' - 8"
02	166' - 8"	11' - 8"
01	155' - 0"	11' - 8"
B9MNT	140' - 0"	15' - 0"

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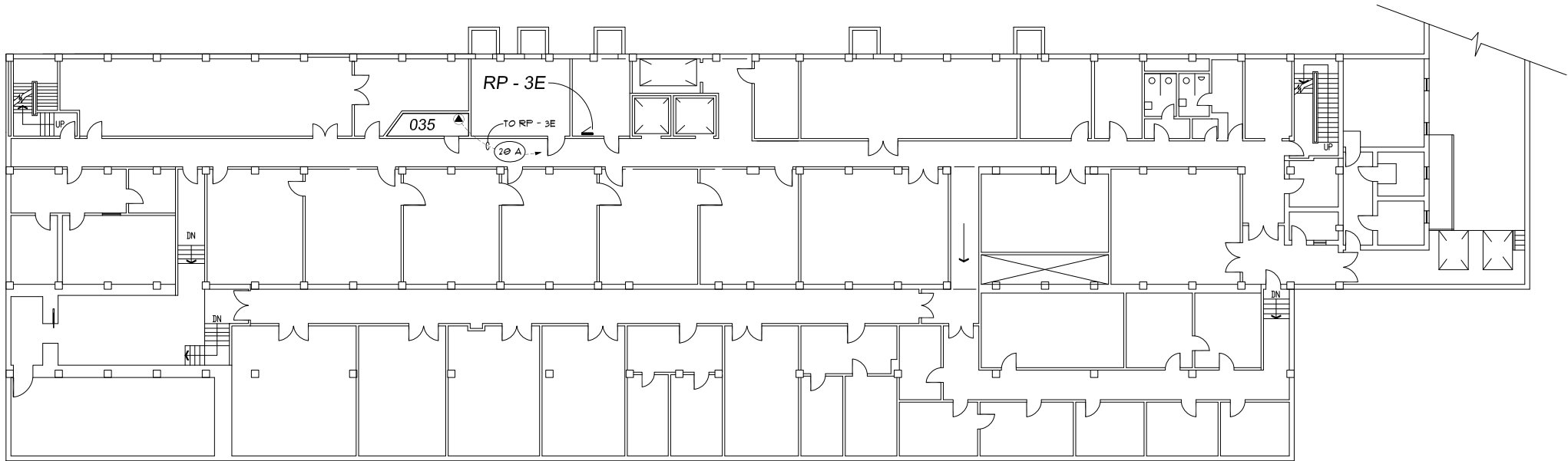
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REVISIONS:	

WAYNE STATE UNIVERSITY - Facilities Planning & Management CSC TELECOM ELECTRICAL UPGRADE	SHEET : Electrical Standards and Notes	PROJECT TITLE : 611 - Lande Building VOIP - Phase 3B

DATE : May XX, 2016
ISSUE : BIDS
PROJECT NUMBER #193-248452
SHEET NO. E-0



HELEN VERA PRENTIS LANDE  
BUILDING #611  
BASEMENT FLOOR

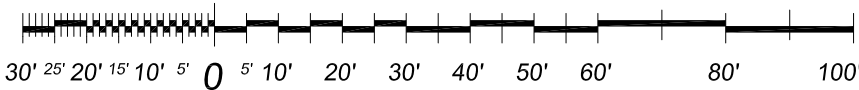


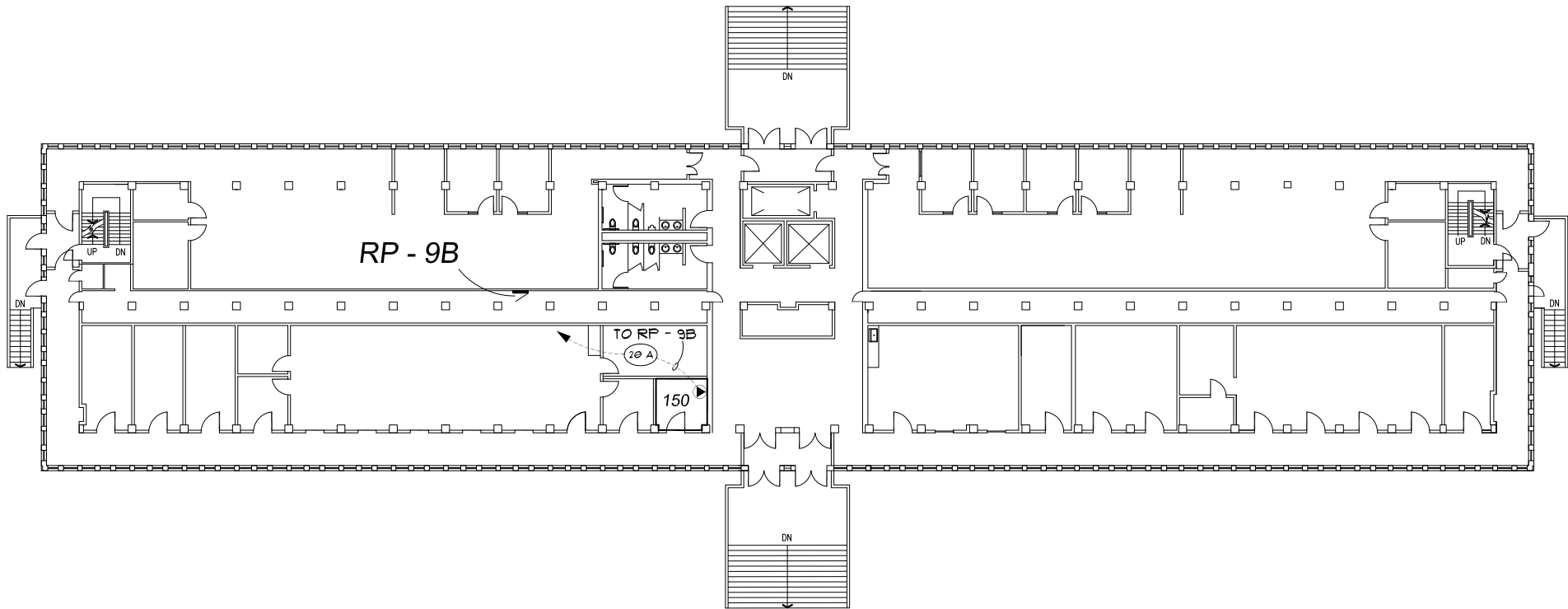
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Basement Floor Power Plan

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





HELEN VERA PRENTIS LANDE  
BUILDING #611  
FIRST FLOOR

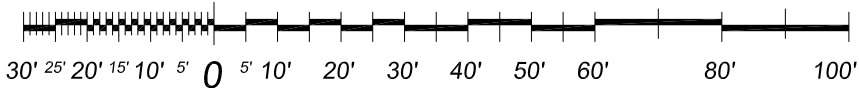


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### First Floor Power Plan

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



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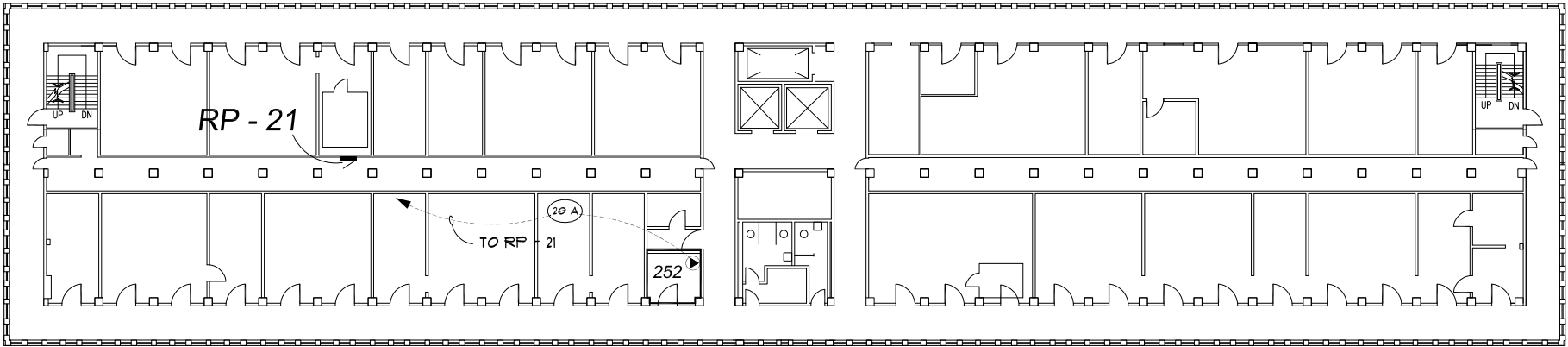
PROJECT TITLE:  
611 Prentis Lande Bldg  
VOIP - Phase 3B

SHEET:  
First Floor Power Plan

DATE:  
May, 05, 2016  
ISSUE:  
BIDS

PROJECT NUMBER  
#193-248452

SHEET NO.  
E-2



HELEN VERA PRENTIS LANDE  
BUILDING #611  
SECOND FLOOR

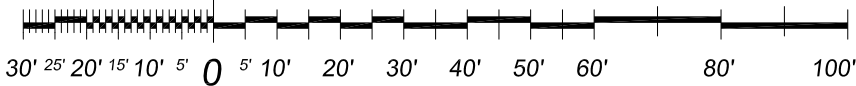


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Second Floor Power Plan

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



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

611 Prentis Lande Bldg  
VOIP - Phase 3B

SHEET

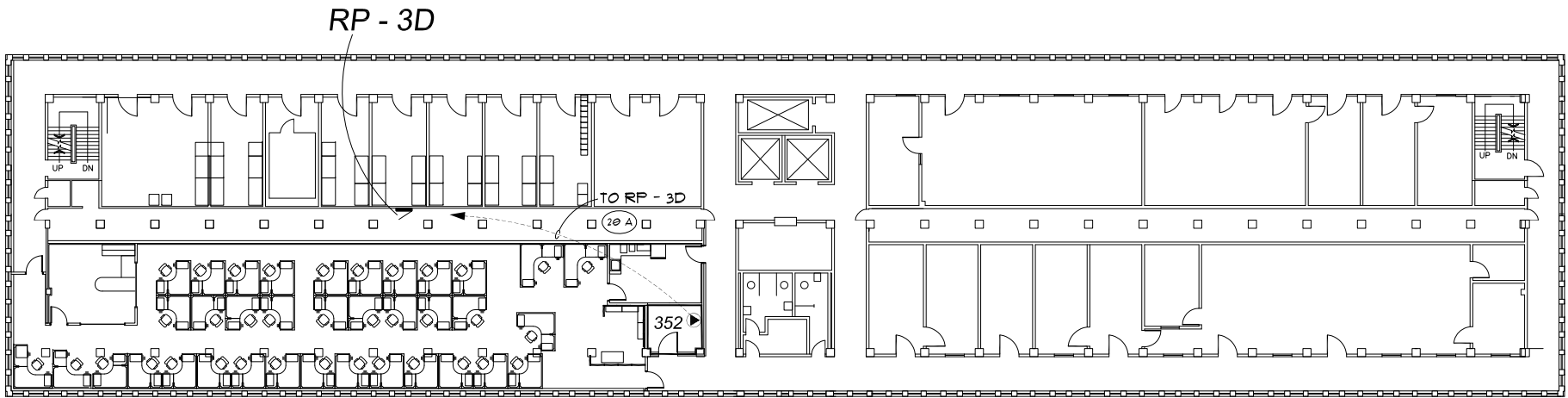
PROJECT TITLE

DATE :  
May, 05, 2016  
ISSUE :  
BIDS

PROJECT NUMBER  
#193-248452

SHEET NO.

E-3



HELEN VERA PRENTIS LANDE  
BUILDING #611  
THIRD FLOOR



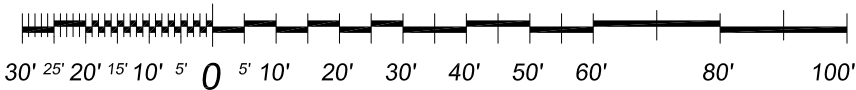
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NORTH

Third Floor Power Plan

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



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

PROJECT TITLE  
611 Prentis Lande Bldg  
VOIP - Phase 3B

SHEET  
Third Floor Power Plan

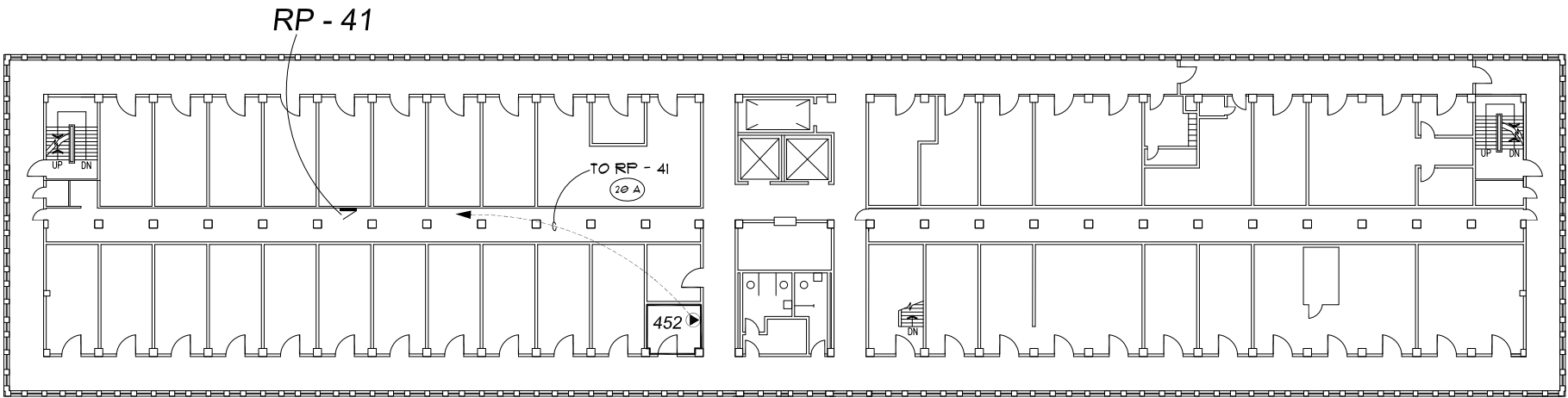
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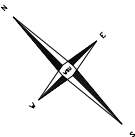
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SHEET NO:

E-4



HELEN VERA PRENTIS LANDE  
BUILDING #611  
FOURTH FLOOR

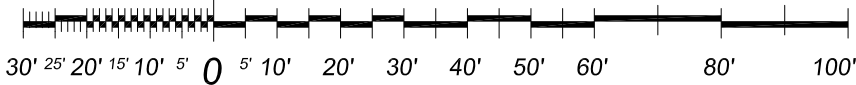


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### Fourth Floor Power Plan

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



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

PROJECT TITLE :  
611 Prentis Lande Bldg  
VOIP - Phase 3B

SHEET :

REVISIONS :

DATE :  
May, 05, 2016

ISSUE :  
BIDS

PROJECT NUMBER  
#193-248452

SHEET NO  
E-5