ARCHITECTURAL – MECHANICAL – ELECTRICAL COORDINATION SCHEDULE

MARK	LOCATION	HP	KW	FLA	ELECTRICAL		DISCONNECT		STARTER		REMARKS
					VOLTAGE	PHASE	FURN.	INST.	FURN.	INST.	
PTAC-1	FIRE COMMAND CENTER	–	–	25.7 MCA	208	1	E	E	S	S	POWER SUPPLY TO BE ON EMERGENCY GENERATOR.
CUH-1	NORTH STAIRWELL – FIRST FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-2	NORTH STAIRWELL – SECOND FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-3	NORTH STAIRWELL – THIRD FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-4	NORTH STAIRWELL – FOURTH FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-5	NORTH STAIRWELL – FIFTH FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-6	NORTH STAIRWELL – SIXTH FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-7	NORTH STAIRWELL – SEVENTH FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-8	NORTH STAIRWELL – EIGHTH FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
CUH-9	NORTH STAIRWELL – NINTH FLOOR	–	778 Watts	–	208	1	E	E	S	S	RUNS CONTINUOUS, MONITORED BY DDC SYSTEM.
SF-1	SUB-BASEMENT STORAGE ROOM	1/4	–	–	120	1	E	E	E	E	RUN CONTINUOUSLY
AC-1	ATTIC	–	755 Watts	–	120	1	E	E	S	S	POWER SUPPLIED THROUGH ACCU-1
ACCU-1	ROOF						E	E	S	S	
SIEMENS MONITORING	BOILER ROOM	–	–	–	120	1	E	E	S	S	
FP-1	FIRE PUMP ROOM	100	–	–	480	3	S	S	S	S	DDC MONITORING OF PUMP OPERATION.
JP-1	FIRE PUMP ROOM	2	–	–	480	3	S	S	S	S	DDC MONITORING OF PUMP OPERATION.
TAMPER SWITCHES	FIRE PUMP ROOM	–	–	–	24	1	N/A	N/A	N/A	N/A	24V CONTROL CIRCUIT AND INTERCONNECTING WIRING TO FIRE PUMP SYSTEM SUPPLIED BY SPRINKLER CONTRACTOR.
SYSTEM FLOW SWITCH	FIRE PUMP ROOM	–	–	–	24	1	N/A	N/A	N/A	N/A	
FLOW SWITCHES (ONE FOR EACH FLOOR SERVED)	AT SPRINKLER SYSTEM CONNECTION TO STANDPIPE FOR ZONE (FLOOR) SERVED	–	–	–	24	1	N/A	N/A	N/A	N/A	

LEGEND

S = SUPPLIER (MANUFACTURER)*
M = MECHANICAL
E = ELECTRICAL
FP = FIRE PUMP

SD = SMOKE DAMPER
CUH = CABINET UNIT HEATER
SF = SUPPLY AIR FAN
JP = JOCKEY PUMP
TS = TAMPER SWITCH
FS = FLOW SWITCH

* – ITEMS INDICATED AS SUPPLIER SHALL BE PROVIDED WITH THE ITEM/ EQUIPMENT OR BY THE CONTRACTOR PURCHASING THE ITEM/EQUIPMENT

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	WATTS
"FA"	2'X2' RECESSED FLUORESCENT LIGHT FIXTURE WITH TWO (2)–17 WATT T8 LAMPS, MATTE WHITE POLYESTER POWDER FINISHED REFLECTOR, METAL DIFFUSER W/ ROUND HOLES, SIDE MOUNTED LAMPS, STATIC AIR SLOTS, AND ONE (1)–120 VOLT FUSED ELECTRONIC BALLAST. (LAMPS TO BE 4100 DEGREE KELVIN WITH CRI NO LESS THAN 80) LITHONIA "AVANTE" #2AV–G–2–17–MDR–SMD–MVOLT–GEB10IS–GLR OR BY ACCEPTABLE MANUFACTURER.	RECECESSED LAY–IN	34
"FA1"	SAME AS TYPE "FA", EXCEPT FURNISHED WITH BODINE B50U EMERGENCY BATTERY PACK OPTION TO OPERATE TWO (2) 17 WATT, T8 LAMPS AT 950 LUMENS. LITHONIA "AVANTE" #2AV–G–2–17–MDR–SMD–MVOLT–GEB10IS–GLR–EL OR BY ACCEPTABLE MANUFACTURER.	RECESSED LAY–IN	34
"FB"	NEW PORCELAIN, MEDIUM BASE, ONE PIECE, KEYLESS LAMP HOLDER WITH MEDIUM SCREW–SHELL BASE SELF–BALLASTED, 120VOLT, 26WATT, 4100K, COMPACT FLUORESCENT LAMP. PASS & SEYMOUR–LEGRAND #272CC18 OR BY ACCEPTABLE MANUFACTURER.	SURFACE CEILING	26
"FC"	1'X4' SUSPENDED INDUSTRIAL FLUORESCENT FIXTURE WITH TWO(2)–F32 T8 LAMPS, BAKED WHITE ENAMEL REFLECTOR WITH 10% UPLIGHT, 120 VOLT FUSED ELECTRONIC BALLAST, AND WIRE GUARD. (LAMPS TO BE 4100 DEGREE KELVIN WITH CRI NO LESS THAN 80) LITHONIA #AF10–232–120V–GEB10RS–GLR–WG OR BY ACCEPTABLE MANUFACTURER.	SUSPENDED	64
"X"	EXIT LIGHT WITH NICKEL–CADMIUM BATTERY, CAST ALUMINUM BLACK HOUSING, BRUSHED ALUMINUN FACE WITH 6" HIGH RED LETTERS, SOLID–STATE CHARGER, LED LAMPS, SELF–DIAGNOSTICS, AND 120/277VAC INPUT. (SINGLE OR DOUBLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON DRAWING) LITHONIA # "SIGNATURE" SERIES OR BY ACCEPTABLE MANUFACTURER.	UNIVERSIAL (CLG. OR WALL)	10
"EBU"	EMERGENCY BATTERY OPERATED LIGHTING UNIT WITH MAINTENANCE–FREE LEAD–CALCIUM BATTERY, SOLID STATE CHARGER, TEST SWITCH / POWER INDICATOR LIGHT, 120/277 VAC INPUT, SELF DIAGNOSTICS, AND TWO(2) UNIT MOUNTED 6 VOLT, 12 WATT LAMPS. LITHONIA "QUANTUM" CAT.#ELM2–SD OR BY ACCEPTABLE MANUFACTURER	WALL	24

SYMBOL LIST

SYMBOL	DESCRIPTION
	SURFACE/SUSPENDED FLUORESCENT FIXTURE
	2'x2' RECESSED FLUORESCENT LIGHT FIXTURE
	2'x2' RECESSED FLUORESCENT LIGHT FIXTURE WITH EMERGENCY BATTERY BACK–UP
	SURFACE LIGHT FIXTURE
S	SINGLE POLE SWITCH
	EXIT LIGHT, WALL MOUNTED – ARROWS AS INDICATED
	EXIT LIGHT, CEILING MOUNTED – ARROWS AS INDICATED
	EMERGENCY LIGHTING UNIT
F	FIRE ALARM MANUAL PULL STATION
AF	FIRE ALARM AUDIBLE SIGNAL / VISUAL FLASHER – WALL MOUNTED
F	FIRE ALARM VISUAL FLASHER – WALL MOUNTED
A	FIRE ALARM AUDIBLE SIGNAL – WALL MOUNTED
B (F)P	SMOKE DETECTOR (BATTERY OPERATED, STAND ALONE)
(F)P	SMOKE DETECTOR (PHOTO–ELECTRIC TYPE)
(F)P S R	DUCT DETECTOR (PHOTO–ELECTRIC TYPE, S = SUPPLY, R = RETURN)
WF	SPRINKLER WATER FLOW VALVE
TS	VALVE TAMPER SWITCH
Z	ZONE ADDRESSABLE CONTROL MODULE
F P F	COMBINATION MANUAL PULL STATION AND FIRE FIGHTER'S PHONE CABINET
F	FIREMAN'S PHONE JACK (TWO–WAY COMMUNICATION)
	TELEPHONE/DATA OUTLET
	LIGHTING/RECEPTACLE PANEL
	DISTRIBUTION PANEL
WP	WEATHERPROOF
E	EXISTING DEVICE
AFF	ABOVE FINISHED FLOOR
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW WORK
	SINGLE PHASE MOTOR
	DISCONNECT SWITCH
	THREE PHASE MOTOR
CP	CONTROL PANEL WITH INTEGRAL DISC. SWITCH
S_T	SINGLE PHASE MANUAL MOTOR STARTER SWITCH
S_M	MOTOR RATED SWITCH
(F)H	HEAT DETECTOR

NOTE:
EXISTING FIRE ALARM SYSTEM WILL REMAIN IN OPERATION UNTIL THE NEW SYSTEM IS INSTALLED, SUCCESSFULLY TESTED, AND APPROVED.

NOTE:
ELECTRICAL TRADES SHALL PROVIDE "FIRE WATCH" WITHIN THE BUILDING TO ACCOMMODATE THE RELOCATION OF THE EXISTING COMPONENTS WITHIN THE SIMPLEX 4100 CONTROL PANEL IN THE SUB–BASEMENT TO NEW MAIN FIRE ALARM CONTROL PANEL IN FIRE COMMAND CENTER ON FIRST FLOOR. (COORDINATE PARTIAL SYSTEM OUTAGE IN ADVANCE WITH OWNER'S REPRESENTATIVE). (SEE SHEET E–2)

NOTE:
ALL EXISTING FIRE ALARM SYSTEM COMPONENTS (i.e. MANUAL PULL STATIONS, ALARM BELLS, HEAT DETECTORS, ETC.) REMOVED DURING THIS PROJECT SHALL BE STORED AND TURNED OVER TO OWNER.

NOTE:
NEW FIRE ALARM SYSTEM SHALL INCLUDE COMPONENTS TO MONITOR & CONTROL THE FOLLOWING BUILDING EQUIPMENT/SYSTEMS:
a. FIRE PUMP
b. FIRE SUPPRESSION SYSTEM SUITABLE FOR HIGH–RISE BUILDING APPLICATION WITH SPRINKLER WATER FLOW SWITCHES AND OS&Y VALVES ZONED PER FLOOR.
c. SHUNT–TRIP OF CIRCUIT BREAKER PROVIDING POWER TO ELEVATORS VIA HEAT DETECTOR IN ELEV. MACHINE ROOM.
d. EMERGENCY GENERATOR (FUTURE)

NOTE:
NEW FIRE ALARM SYSTEM SHALL BE CAPABLE OF INCORPORATING FUTURE CAMPUS MASS COMMUNICATION SYSTEM FEATURES INCLUDING DEVICES THAT ACCOMMODATE VOICE, TONE, AND STROBE. PROVIDE DEDICATED WIRING "LOOP" IN CORRIDORS TO ACCOMMODATE FUTURE EXTENSION/INSTALLATION OF MASS NOTIFICATION SYSTEM WIRING AND DEVICES THROUGH OUT BUILDING AND INTO APARTMENTS.

NOTE:
NEW FIRE ALARM SYSTEM WIRING WITHIN CORRIDORS SHALL BE RUN IN "RED" CONDUIT (1/2" MIN.). ALL FIRE ALARM SYSTEM WIRING WITHIN APARTMENTS SHALL BE RUN IN SURFACE MOUNTED RACEWAY (PLUGMOLD) DEDICATED FOR FIRE ALARM SYSTEM USE ONLY.

NOTE:
ALL SERVICE INTERRUPTIONS REQUIRED TO FACILITATE THE INSTALLATION OF FIRE ALARM, ELECTRICAL, MECHANICAL, AND C.&I.T. SYSTEMS SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH THE WORK.

NOTE:
TO AVOID NUISANCE ALARMS, SMOKE DETECTORS LOCATED IN APARTMENTS WILL NOT INITIATE A BUILDING ALARM WHEN ACTIVATED. APARTMENT SMOKE DETECTORS WILL INITIALLY SEND A TROUBLE SIGNAL TO THE MAIN FACP AND SOUND LOCAL ALARMS WITHIN THE APARTMENT UNIT ONLY.

ELECTRICAL SHEET INDEX

SHEET	DESCRIPTION
E–1	GENERAL ELECTRICAL INFORMATION
E–2	SUB–BASEMENT & BASEMENT PLANS – ELECTRICAL
E–3	FIRST FLOOR PLAN – LIGHTING DEMOLITION
E–4	FLOOR PLAN LIGHTING (TYPICAL FOR FLOORS 2 THRU 9) – DEMOLITION
E–5	FIRST FLOOR PLAN – LIGHTING NEW WORK
E–6	FLOOR PLAN LIGHTING (TYPICAL FOR FLOORS 2 THRU 9) – NEW WORK
E–7	FIRST FLOOR PLAN – FIRE ALARM DEMOLITION & NEW WORK
E–8	FLOOR PLAN FIRE ALARM (TYPICAL FOR FLOORS 2 THRU 9) – DEMOLITION & NEW WORK
E–9	ATTIC AND PENTHOUSE PLANS – ELECTRICAL
E–10	EXISTING JANITOR'S CLOSETS – ELECTRICAL DEMOLITION
E–11	FIRE ALARM SYSTEM EQUIPMENT CLOSETS – ELECTRICAL NEW WORK
E–12	ENLARGED NORTH STAIRWELL 1ST THRU 9TH FLOOR PLANS – DEMOLITION
E–13	ENLARGED NORTH STAIRWELL 1ST THRU 9TH FLOOR PLANS – NEW WORK
E–14	ELECTRICAL DIAGRAMS AND DETAILS
E–15	FIRE ALARM DIAGRAMS
E–16	ENLARGED PLANS AND DETAILS – ELECTRICAL

OVERVIEW OF ELECTRICAL SCOPE

THIS OVERVIEW OF SCOPE IS INCLUDED TO GIVE THE CONTRACTOR A GENERAL OVERVIEW OF THE PROJECT REQUIREMENTS. THE OVERVIEW IS NOT ALL INCLUSIVE AND IS NOT INTENDED TO, AND SHOULD NOT BE USED TO, ESTABLISH CONTRACT LIMITS OR PRICING INCLUSIONS. THE CONTRACT DOCUMENTS SHALL BE USED TO ESTABLISH CONSTRUCTION CONTRACT SCOPE.

THIS OVERVIEW OF SCOPE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

ELECTRICAL

1. PROVIDE A NEW "CLASS–A" FULLY ADDRESSABLE FIRE ALARM/VOICE EVACUATION SYSTEM COMPLETE WITH MANUAL PULL STATIONS, SMOKE DETECTORS, STROBE FLASHERS, SPEAKERS, COMBINATION SPEAKER/VISUAL FLASHERS, ZONE ADDRESSABLE CONTROL MODULES (ZAM's), AND ALL ASSOCIATED ITEMS.
   (NOTE: NEW FIRE ALARM SYSTEM DEVICES INDICATED ON THE DRAWINGS ARE FOR GENERAL LAYOUT REFERENCE ONLY. EXACT LOCATION AND REQUIRED/ADDITIONAL QUANTITY OF DEVICES SHALL BE THE RESPONSIBILITY OF THE SYSTEM PROVIDER/INSTALLING CONTRACTOR TO MEET MANUFACTURER'S RECOMMENDATIONS, FIELD CONDITIONS, AND APPLICABLE CODE REQUIREMENTS.)
2. PROVIDE FIREFIGHTER'S TWO–WAY TELEPHONE COMMUNICATION SYSTEM. (i.e PHONE JACKS AT STAIRWELLS, ETC.)
3. PROVIDE ALL CUTTING, CORE DRILLING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE NEW FIRE ALARM SYSTEM IN ITS ENTIRETY INCLUDING EQUIPMENT PANELS, SYSTEM DEVICES, SURFACE RACEWAYS, ETC.
4. PROVIDE 120V POWER TO FIRE ALARM SYSTEM PANELS AND REMOTE POWER SUPPLIES WHERE REQUIRED.
5. PROVIDE CONDUIT SLEEVES THRU WALLS AND FLOORS TO ACCOMMODATE INSTALLATION OF THE NEW FIRE ALARM SYSTEM. PRIOR TO CORE DRILLING CONCRETE FLOORS, ELECTRICAL TRADES SHALL TEST FOR THE PRESENCE OF ELECTRICAL CONDUITS USING AN IMPULSE INDUCTION TYPE SCANNER. (REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS).
6. PROVIDE TESTING & COMMISSIONING OF FIRE ALARM SYSTEM.
7. REMOVE EXISTING FIRE ALARM SYSTEM COMPONENTS IN THEIR ENTIRETY. (FOLLOWING INSTALLATION, TESTING, AND APPROVAL OF NEW FIRE ALARM SYSTEM). ALL EXISTING FIRE ALARM SYSTEM COMPONENTS SHALL BE STORED FOLLOWING REMOVAL AND TURNED OVER TO THE OWNER. (i.e. MANUAL PULL STATIONS, ALARM BELLS, HEAT DETECTORS, FACP, AND REMOTE ANNUNCIATOR PANELS). PROVIDE SUITABLE/OWNER APPROVED ABANDONMENT PLATE AT FINISHED WALL LOCATIONS FOR EXISTING FIRE ALARM SYSTEM DEVICES REMOVED DURING THE COURSE OF THIS PROJECT.
8. PROVIDE TWO (2) NEW 45KVA TRANSFORMERS AND THREE (3) BRANCH CIRCUIT PANELBOARDS AS INDICATED ON THE DRAWINGS.
9. PROVIDE ELECTRICAL SERVICE TO NEW MECHANICAL EQUIPMENT AS INDICATED ON THE DRAWINGS.
10. RELOCATE EXISTING LIGHTING IN SUB–BASEMENT AREA AS INDICATED ON THE DRAWINGS.
11. DISCONNECT, REMOVE, AND/OR RELOCATE EXISTING ELECTRICAL ITEMS WITHIN THE PROJECT AREA TO ACCOMMODATE CONSTRUCTION OF NEW FIRE PUMP ROOM.
12. MODIFY ELECTRICAL SERVICE TO BUILDING TO PROVIDE FEEDER SOURCE FOR NEW FIRE PUMP THAT IS IN COMPLIANCE WITH THE LATEST NEC/NFPA REQUIREMENTS. (REFER TO ONE LINE DIAGRAM ON SHEET E–14)

PROJECT REQUIREMENTS

PROVIDE ALL NECESSARY PERMITS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH THE OWNER'S STANDARDS, STATE AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING CODES AND THEIR RELATED REFERENCES.

2008 NATIONAL ELECTRICAL CODE

NFPA 101 LIFE SAFETY CODE 2006

MICHIGAN ENERGY CODE–ASHRAE 90.1 – 2007

2009 INTERNATIONAL FIRE CODE (AS REFERENCED)

2009 MICHIGAN BUILDING CODE

2009 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS

2009 MICHIGAN PLUMBING CODE

2009 MICHIGAN MECHANICAL CODE

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE 2010

NFPA 20 – INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION – 2010

ALL EQUIPMENT INSTALLED SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE FIELD OR PROJECT CONDITIONS DO NOT ALLOW ALL MANUFACTURER'S RECOMMENDATIONS TO BE MET, THE INSTALLING CONTRACTOR SHALL SUBMIT IN WRITING TO THE OWNER THE PROPOSED DEVIATION, IN A SKETCH FORM, ACCOMPANIED BY THE MANUFACTURER'S CONCURRENCE.

MANUFACTURER AND MODEL NUMBER LISTED REPRESENTS THE BASIS OF DESIGN FOR THIS PROJECT. THE ELECTRICAL CONTRACTOR SHALL BEAR ALL ADDITIONAL COST ASSOCIATED WITH USING EQUIPMENT BY OTHER APPROVED MANUFACTURERS INCLUDING ADDITIONAL COSTS BY OTHER TRADES.

ALL FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY WSU OFFICE OF RISK MANAGEMENT PRIOR TO INSTALLATION.

ALL ELECTRICAL WORK SHALL BE REVIEWED, INSPECTED, AND APPROVED BY WSU ELECTRICAL INSPECTOR MR. GREG CALME. CONTACT FACILITIES PLANNING AND MANAGEMENT PROJECT MANAGER TO COORDINATE INSPECTION REQUIREMENTS.

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MARK	ISSUE	DATE
	BIDS	06/18/13
	FINAL O.R. MEETING	05/22/13
	FINAL OWNER REVIEW	05/07/13
	90% OWNER REVIEW	04/24/13
	30% PROGRESS REVIEW	03/28/13

DESIGNER	CDK
DRAWN	DNM
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

GENERAL ELECTRICAL INFORMATION

WSU PROJECT #: 136–195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-1

DSD FILE NAME
12–4806.00–E–1

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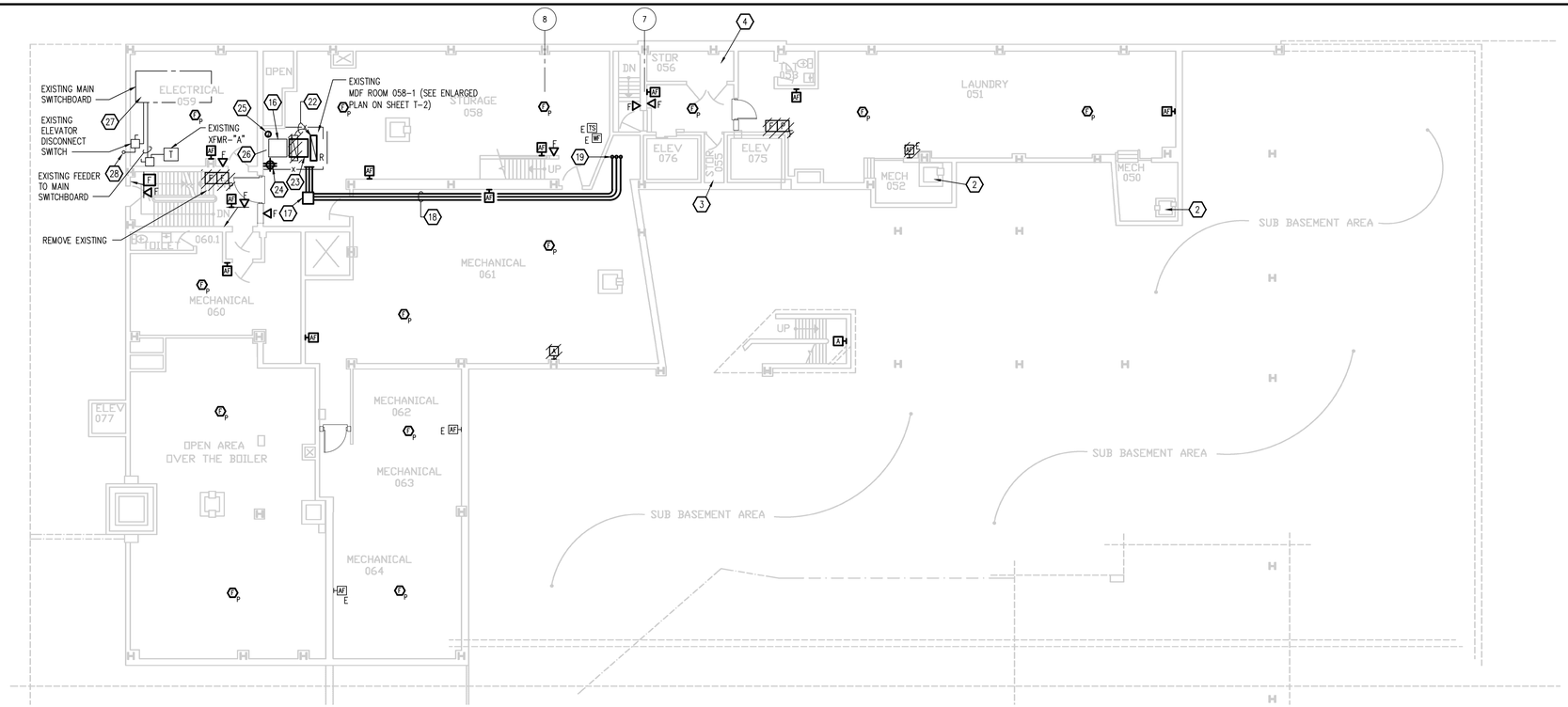

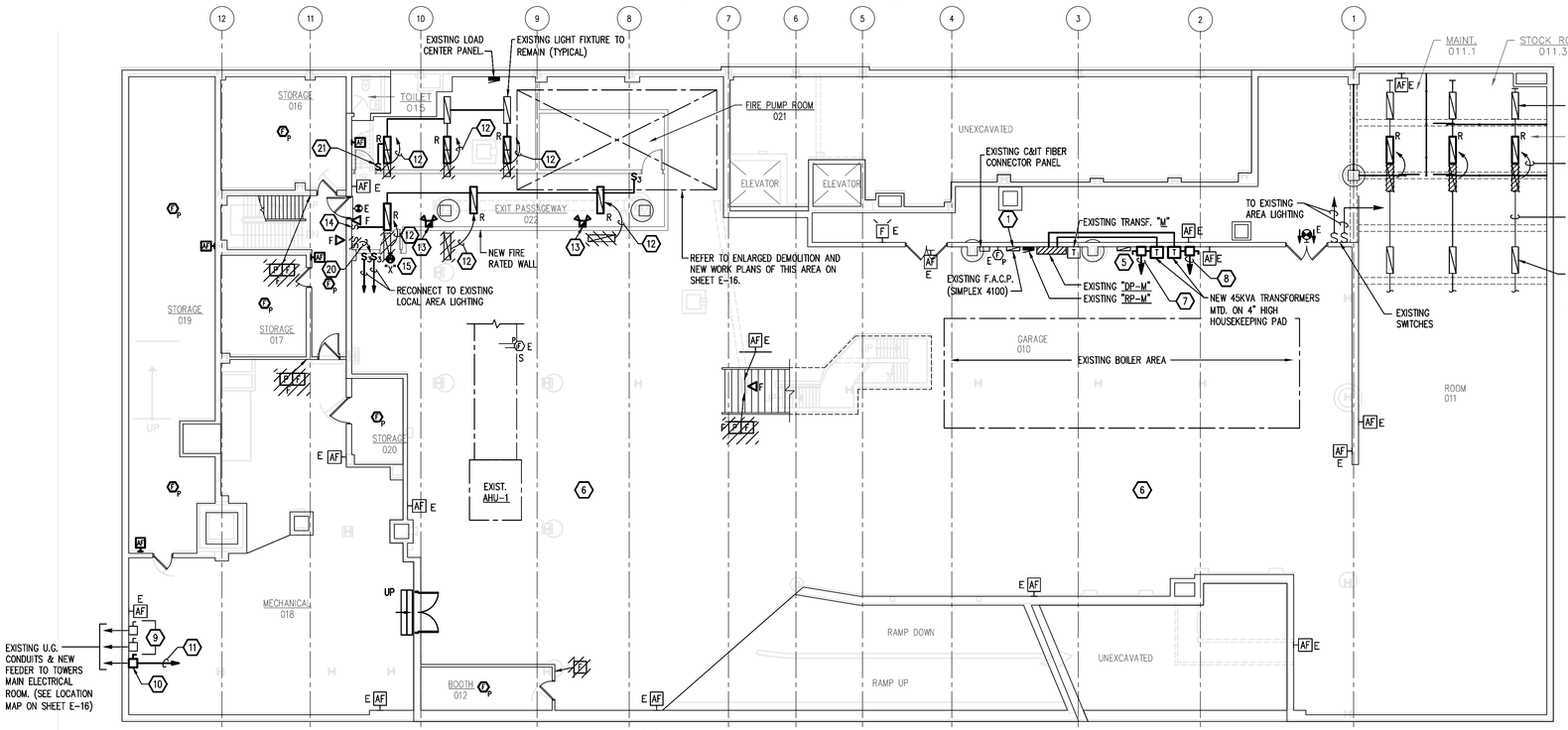

GENERAL NOTES:

1. NEW FIRE ALARM SYSTEM DEVICES ARE INDICATED FOR GENERAL LAYOUT REFERENCE ONLY. EXACT LOCATION AND REQUIRED QUANTITY OF DEVICES SHALL BE THE RESPONSIBILITY OF THE SYSTEM PROVIDER/INSTALLING CONTRACTOR TO MEET FIELD CONDITIONS, MANUFACTURER'S RECOMMENDATIONS, AND APPLICABLE CODE REQUIREMENTS.

KEY NOTES:

1. ELECTRICAL TRADES SHALL CONDUCT A "FIRE WATCH" TO ACCOMMODATE THE RELOCATION OF EXISTING FIRE ALARM CONTROL PANEL COMPONENTS TO NEW FIRE ALARM CONTROL PANEL IN NEW FIRE COMMAND CENTER ON FIRST FLOOR. EXISTING CONTROL PANEL IN SUB-BASEMENT WILL BE USED AS A SPLICE/TAP BOX FOR EXTENSION OF EXISTING SYSTEM WIRING UP TO THE NEW FIRE ALARM CONTROL PANEL. PROVIDE "RED" PAINTED BLANK COVERPLATE AT EXISTING PANEL (SPLICE BOX) IN THE SUB-BASEMENT.
2. EXISTING/INACTIVE INCINERATOR.
3. EXISTING STORAGE ROOM DOES NOT HAVE AN ENCLOSED CEILING. (OPEN SPACE WITH PIPING ABOVE)
4. LOW-HEIGHT, SUPPLY STORAGE AREA.
5. EXISTING MECHANICAL SYSTEMS CONTROL PANEL TO REMAIN.
6. PROVIDE ADDITIONAL AUDIO DEVICES AS REQUIRED WITHIN THE SUB-BASEMENT BOILER AREA TO ACCOMMODATE INCREASED AMBIENT NOISE LEVEL AND ALSO MEET THE CODE REQUIREMENTS FOR VOICE INTELLIGIBILITY LEVEL FOR EMERGENCY AUDIO MESSAGING.
7. TO NEW "RP-N" ON FIRST FLOOR IN RECEIVING AREA 121 (NEAR NEW FIRE COMMAND CENTER, SEE SHEET E-7). COORDINATE FEEDER ROUTING IN FIELD.
8. TO NEW "LP-1A" ON FIRST FLOOR IN RECEIVING AREA 121 (NEAR NEW FIRE COMMAND CENTER, SEE SHEET E-7). COORDINATE FEEDER ROUTING IN FIELD.
9. EXISTING BUILDING SERVICE DISCONNECT SWITCHES. (REFER TO ONE LINE DIAGRAM ON SHEET E-14)
10. NEW 200A.3P. NON-FUSED DISCONNECT SWITCH FOR CHATSWORTH FIRE PUMP SERVICE ENTRANCE. (NOT THE "DESIGNATED/CODE REQUIRED" UPSTREAM LINE-SIDE PROTECTIVE DEVICE) SEE ONE LINE DIAGRAM ON SHEET E-14 FOR ADDITIONAL REQUIREMENTS.
11. TYPE MI CABLE RUN AS AN "OPEN WIRE" ELECTRICAL SERVICE PROTECTIVE SYSTEM TO NEW FIRE PUMP ROOM. (SEE ONE LINE DIAGRAM ON SHEET E-14 FOR ADDITIONAL INFORMATION) COORDINATE FEEDER ROUTING IN FIELD.
12. RELOCATE EXISTING LIGHT FIXTURE TO ACCOMMODATE CONSTRUCTION OF NEW WALL. CONNECT TO LOCAL AREA BRANCH CIRCUIT AND SWITCH CONTROL.
13. NEW TYPE "EBU". CONNECT TO AREA LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH CONTROL.
14. ONE (1) EXISTING THREE-WAY SWITCH TO REMAIN.
15. NEW WALL MOUNTED EXIT LIGHT. CONNECT TO EXISTING AREA EXIT/N.L. CIRCUIT.
16. EXISTING MDF EQUIPMENT RACK.
17. NEW PULL BOX SUPPORTED FROM CEILING. (SIZE AS REQUIRED)
18. THREE (3) – NEW 4" CONDUITS FOR C&IT SYSTEM CABLING. (COORDINATE EXACT ROUTING IN FIELD)
19. PROPOSED LOCATION FOR THREE (3) – 4" CONDUITS UP TO NEW EQUIP. CLOSET 121.3 ABOVE. (COORDINATE EXACT LOCATION IN FIELD)
20. RELOCATE TWO (2) EXISTING THREE-WAY LIGHT SWITCHES.
21. PROVIDE NEW SINGLE POLE SWITCH FOR LOCAL AREA LIGHTING CONTROL.
22. RELOCATE EXISTING SUSPENDED FLUORESCENT LIGHT TO ACCOMMODATE INSTALLATION OF NEW MDF EQUIPMENT RACK.
23. NEW OPEN-FRAME EQUIPMENT RACK
24. NEW DOUBLE-DUPLEX "QUAD" RECEPTACLE. EACH DUPLEX RECEPTACLE SEPARATELY CIRCUITED FROM EXISTING "RP-M" FOR C&IT EQUIPMENT. (CKT #'S 38 & 40).
25. NEW WALL MOUNTED JUNCTION BOX FOR HARD-WIRED 120V CONNECTION TO CATV POWER SUPPLY. PROVIDE 2 #12 & 1 #12 GRD., 1/2"C. TO EXISTING SPARE CIRCUIT BREAKER IN "RP-M", CKT. #24.
26. REFER TO ENLARGED MDF ROOM PLAN AND NEW WORK KEY NOTES ON SHEET T-2 FOR ADDITIONAL ELECTRICAL TRADES ITEMS. (e.g. TELECOMMUNICATIONS GROUNDING BUS BAR)
27. ELEVATOR SERVICE ORIGINATES FROM TAP AT EXISTING MAIN SWITCHBOARD.
28. ELEVATOR SERVICE CONDUIT UP TO MACHINE ROOM IN PENTHOUSE.

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TITLE: **MISCELLANEOUS BUILDING UPGRADES**

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

SUB-BASEMENT & BASEMENT PLANS - ELECTRICAL

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-2

DSD FILE NAME
12-4806.00-E-2

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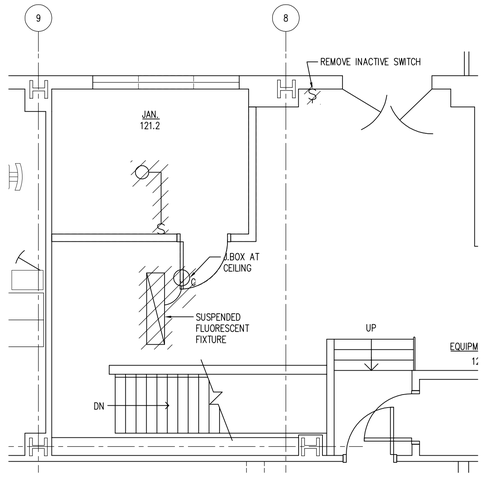
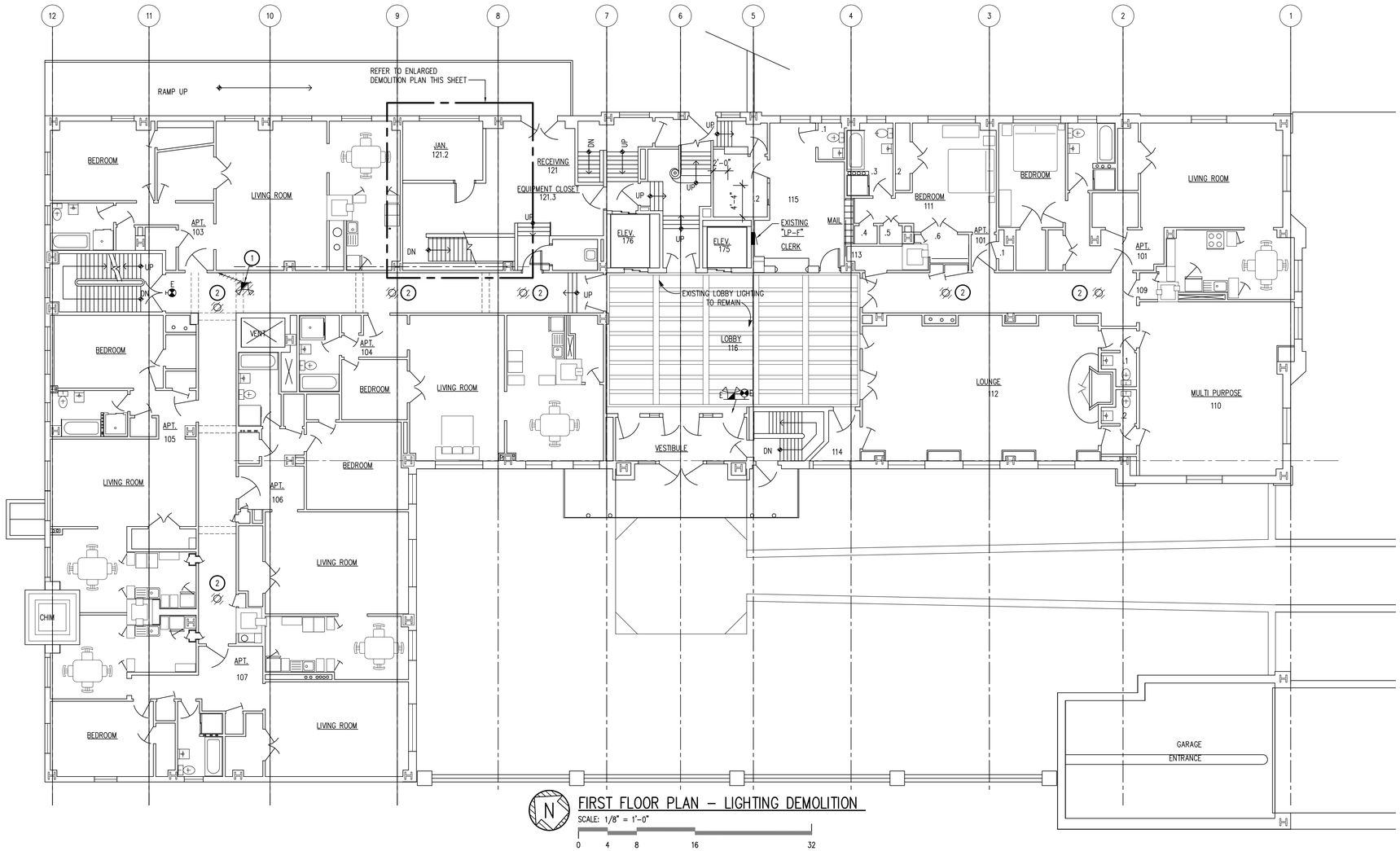


N

PARTIAL FIRST FLOOR PLAN – LIGHTING DEMOLITION

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

0 2 4 8 16



N

FIRST FLOOR PLAN – LIGHTING DEMOLITION

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

0 4 8 16 32

GENERAL NOTE:

1. REFER TO JANITOR CLOSET ENLARGED DEMOLITION AND NEW WORK PLANS ON SHEET E-10 & E-11.

DEMOLITION KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

(1) EXISTING WALL MOUNTED EMERGENCY EGRESS BATTERY LIGHT SHALL BE TEMPORARILY MOVED/LOWERED TO ACCOMMODATE INSTALLATION OF NEW LAY-IN CEILING (BATTERY LIGHT TO REMAIN OPERATIONAL). FOLLOWING THE INSTALLATION AND COMMISSIONING OF NEW EXIT AND EMERGENCY EGRESS LIGHTING, THE EXISTING EMERGENCY BATTERY LIGHT SHALL BE DISCONNECTED, REMOVED, AND TURNED OVER TO OWNER.

(2) EXISTING SURFACE CEILING MOUNTED LIGHT FIXTURE AND SCREW-SHELL BASE COMPACT, FLUORESCENT LAMP SHALL BE REMOVED AND TURNED OVER TO OWNER. EXISTING BRANCH CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE.

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	BIDS	06/18/13
	FINAL O.R. MEETING	05/22/13
	90% OWNER REVIEW	04/24/13
	30% PROGRESS REVIEW	03/28/13

DESIGNER	CDK
DRAWN	MEP
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: **MISCELLANEOUS BUILDING UPGRADES**

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FIRST FLOOR PLAN - LIGHTING DEMOLITION

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-3

DSD FILE NAME
12-4806.00-E-3

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SHEET NOTE:

1. REFER TO JANITOR CLOSET ENLARGED DEMOLITION AND NEW WORK PLANS ON SHEET E-10 & E-11.

DEMOLITION KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. EXISTING WALL MOUNTED EXIT LIGHT AND EMERGENCY EGRESS BATTERY LIGHT SHALL BE TEMPORARILY MOVED/LOWERED TO ACCOMMODATE INSTALLATION OF NEW LAY-IN CEILING. (EXIT LIGHT AND BATTERY LIGHT TO REMAIN IN OPERATION). FOLLOWING THE INSTALLATION AND COMMISSIONING OF NEW EXIT AND EMERGENCY EGRESS LIGHTING, THE EXISTING EXIT AND EMERGENCY BATTERY LIGHTS SHALL BE DISCONNECTED, REMOVED, AND TURNED OVER TO OWNER.
2. EXISTING SURFACE CEILING MOUNTED LIGHT FIXTURE AND SCREW-SHELL BASE COMPACT, FLUORESCENT LAMP SHALL BE REMOVED AND TURNED OVER TO OWNER. EXISTING BRANCH CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE.
3. REMOVE EXISTING EXIT LIGHT TO ACCOMMODATE INSTALLATION OF NEW LAY-IN CEILING.

N

FLOOR PLAN LIGHTING (TYPICAL FOR FLOORS 2 THRU 9) – DEMOLITION

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

0 4 8 16 32

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DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FLOOR PLAN LIGHTING (TYPICAL FOR FLOORS 2 THRU 9) - DEMOLITION

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-4

DSD FILE NAME
12-4806.00-E4

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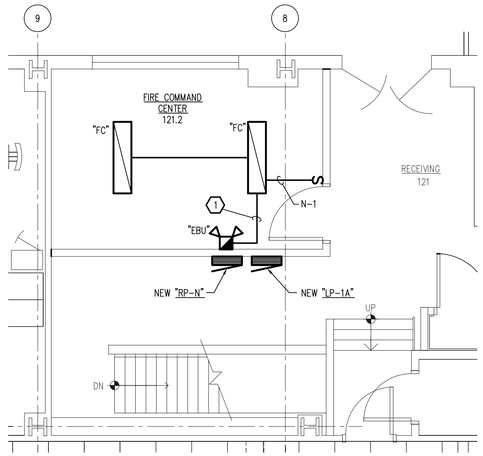
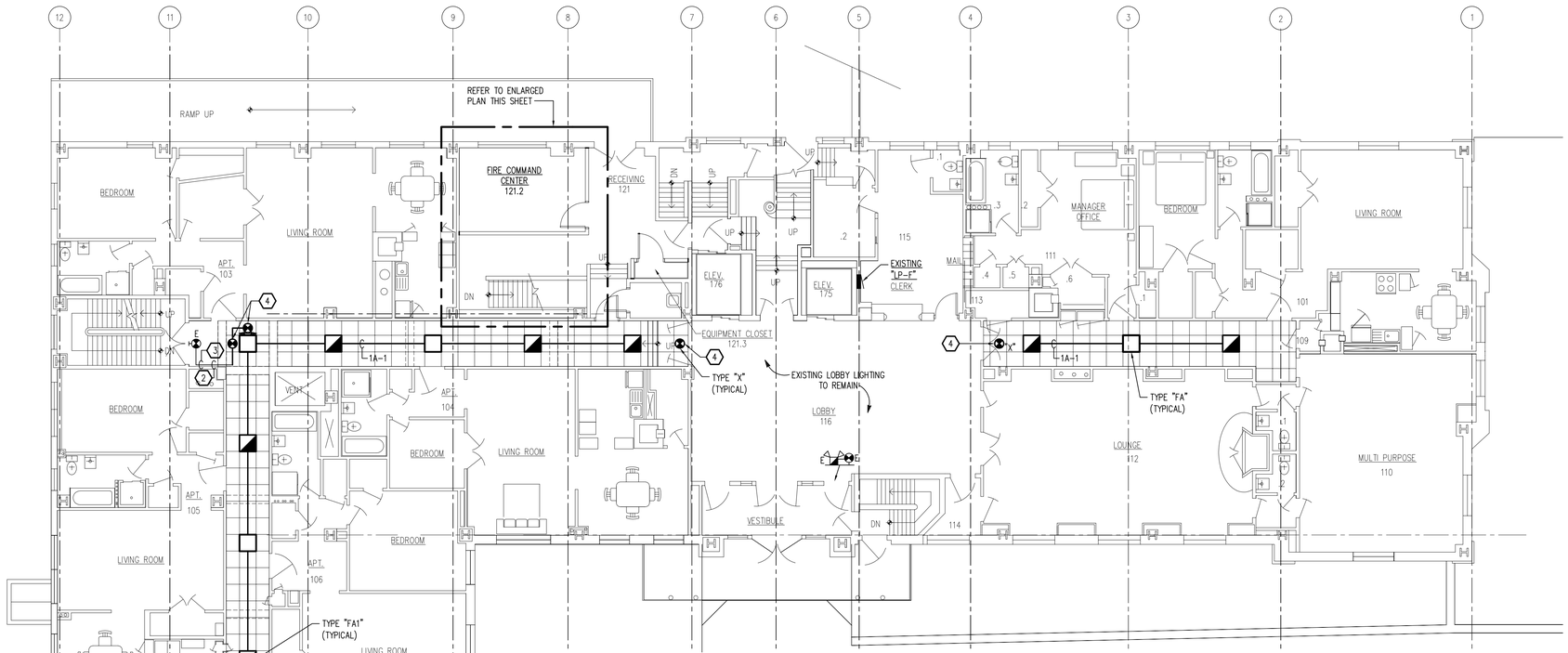


N

PARTIAL FIRST FLOOR PLAN – LIGHTING NEW WORK

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

0 4 8 16 32



N

FIRST FLOOR PLAN – LIGHTING NEW WORK

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

0 4 8 16 32

SHEET NOTES:

1. REFER TO JANITOR CLOSET ENLARGED DEMOLITION AND NEW WORK PLANS ON SHEETS E-10 & E-11.
2. FOR EXACT LOCATION OF LIGHT FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.

NEW WORK KEYED NOTES:

(APPLICABLE THIS SHEET ONLY)

1. CONNECT EMERGENCY LIGHTING UNIT TO ROOM LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL AREA SWITCHING.
2. CONNECT NEW EXIT LIGHTS TO EXISTING EXIT LIGHTING CIRCUIT. (TYPICAL)
3. REUSE PORTION OF EXISTING SURFACE WALL MOUNTED PLUGMOLD.
4. NEW CEILING MOUNTED EXIT LIGHTS SHALL BE ADJUSTED/EXTENDED WHERE REQUIRED TO ASSURE FULL VIEW OF EXIT SIGNAGE IS NOT OBSCURED BY NEW ARCHITECTURAL SOFFIT EXTENSIONS OF DROPPED BEAMS IN CORRIDOR.

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DRAWN	JWB
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FIRST FLOOR PLAN - LIGHTING NEW WORK

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-5

DSD FILE NAME
12-4806.00-E-5

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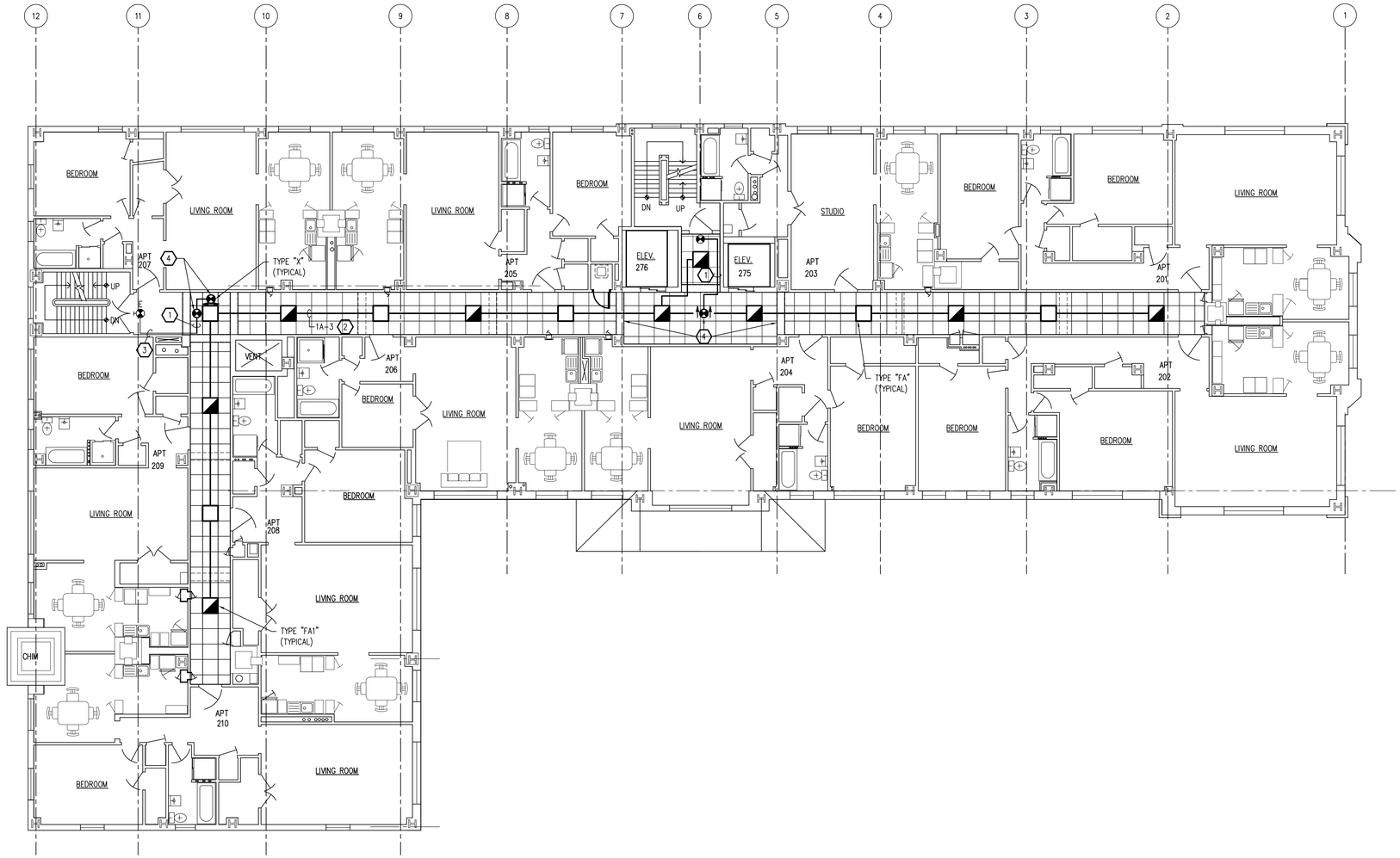
SHEET NOTES:

1. REFER TO JANITOR CLOSET ENLARGED DEMOLITION AND NEW WORK PLANS ON SHEET E-10 & E-11.
2. FOR EXACT LOCATION OF LIGHT FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.

NEW WORK KEYED NOTES:

(APPLICABLE THIS SHEET ONLY)

1. CONNECT NEW EXIT LIGHTS TO EXISTING EXIT LIGHTING CIRCUIT. (TYPICAL)
2. REFER TO NEW "LP-1A" AND "LP-PA" PANEL SCHEDULES ON SHEET E-14 FOR LIGHTING BRANCH CIRCUIT NUMBERS ON FLOORS 2 THRU 9.
3. REUSE PORTIONS OF EXISTING SURFACE WALL MOUNTED PLUGMOLD.
4. NEW CEILING MOUNTED EXIT LIGHTS SHALL BE ADJUSTED/EXTENDED WHERE REQUIRED TO ASSURE FULL VIEW OF EXIT SIGNAGE IS NOT OBSCURED BY NEW ARCHITECTURAL SOFFIT EXTENSIONS OF DROPPED BEAMS IN CORRIDOR.



N

FLOOR PLAN LIGHTING (TYPICAL FOR FLOORS 2 THRU 9) – NEW WORK

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

0 4 8 16 32

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DESIGNER	CDK
DRAWN	JWB
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS
630 WILLIAMS MALL
DETROIT, MICHIGAN

FLOOR PLAN LIGHTING (TYPICAL FOR FLOORS 2 THRU 9) - NEW WORK

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-6

DSD FILE NAME
12-4806.00-E-6

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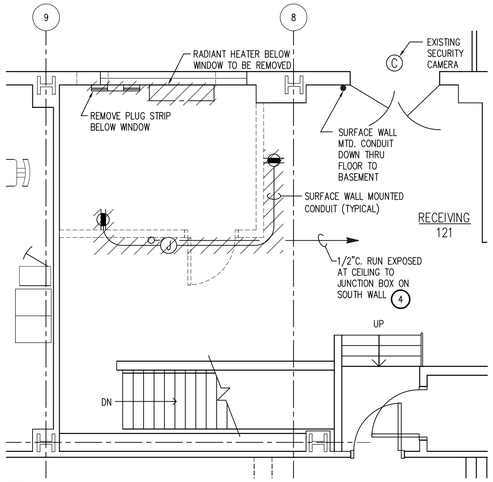

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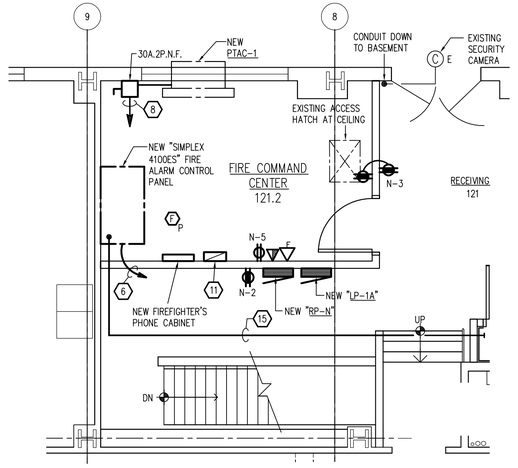
PARTIAL FIRST FLOOR PLAN – DEMOLITION

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

0 2 4 8 16



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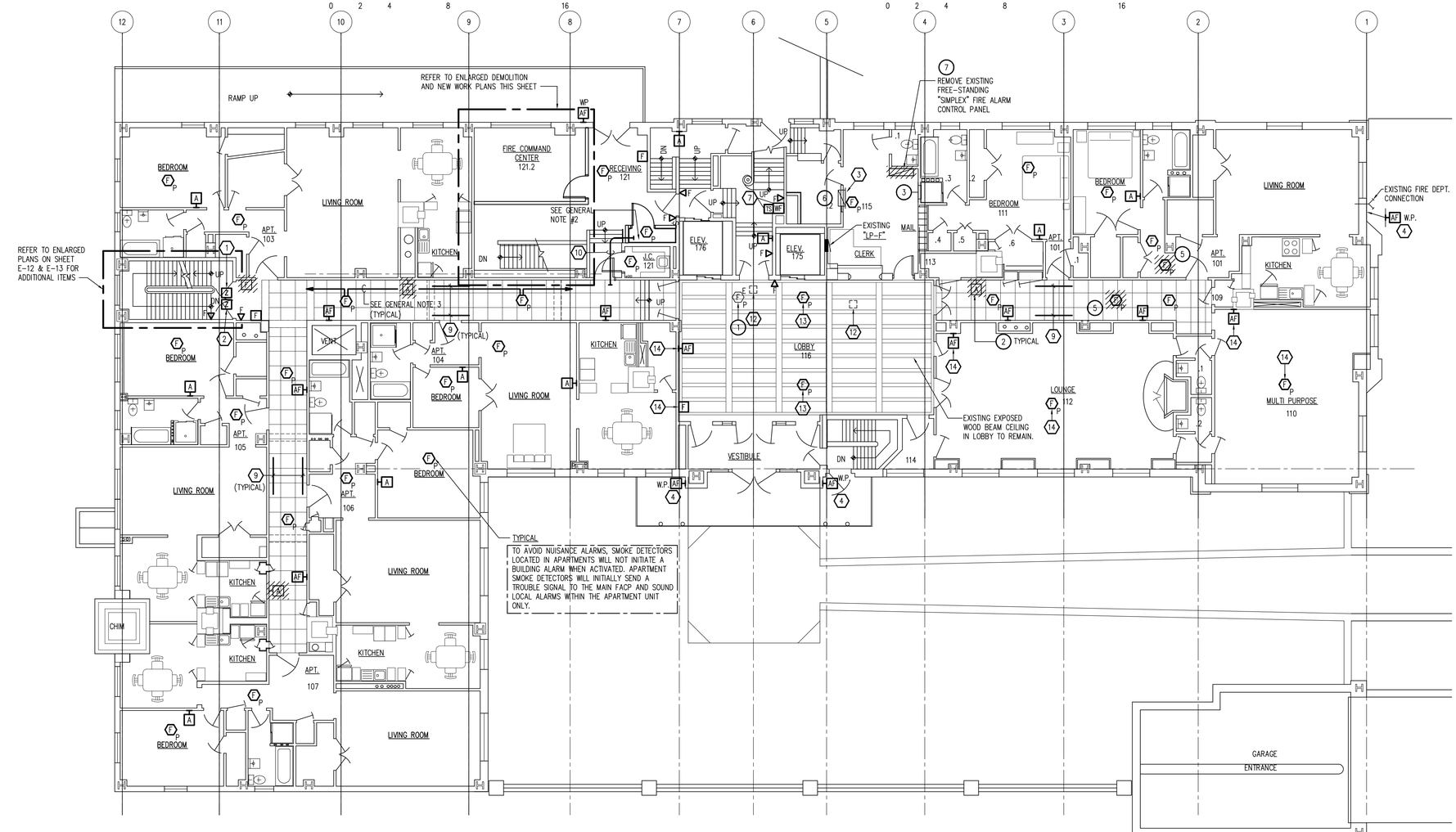
PARTIAL FIRST FLOOR PLAN – NEW WORK

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

0 2 4 8 16



N

FIRST FLOOR PLAN – FIRE ALARM DEMOLITION & NEW WORK

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

0 4 8 16 32

GENERAL NOTES:

1. NEW FIRE ALARM SYSTEM DEVICES ARE INDICATED FOR GENERAL LAYOUT REFERENCE ONLY. EXACT LOCATION AND REQUIRED QUANTITY OF DEVICES SHALL BE THE RESPONSIBILITY OF THE SYSTEM PROVIDER/INSTALLING CONTRACTOR TO MEET FIELD CONDITIONS, MANUFACTURER'S RECOMMENDATIONS, AND APPLICABLE CODE REQUIREMENTS,
2. REFER TO JANITOR CLOSET ENLARGED DEMOLITION AND NEW WORK PLANS ON SHEET E-10 & E-11.
3. RUN NEW FIRE ALARM SYSTEM CONDUITS ABOVE LAY-IN CEILING NEAR WALLS OF CORRIDOR TO AVOID INTERFERENCE WITH NEW LIGHTING AND FIRE SUPPRESSION SYSTEMS RUN DOWN MIDDLE OF CORRIDOR. (TYPICAL)
4. NEW FIRE ALARM SYSTEM WIRING WITHIN CORRIDORS SHALL BE RUN IN "RED" CONDUIT (1/2" MIN.). ALL FIRE ALARM SYSTEM WIRING WITHIN APARTMENTS SHALL BE RUN IN SURFACE MOUNTED RACEWAY (PLUGMOLD) DEDICATED FOR FIRE ALARM SYSTEM USE ONLY.

DEMOLITION KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. EXISTING ELEVATOR LOBBY SMOKE DETECTOR. (ELEVATOR CAPTURE, NOT PART OF BUILDING FIRE ALARM SYSTEM)
2. EXISTING FIRE ALARM SYSTEM DEVICES SHALL REMAIN IN OPERATION UNTIL THE NEW SYSTEM IS INSTALLED, SUCCESSFULLY TESTED, AND APPROVED. (TYPICAL)
3. EXISTING ELEVATOR "FIRE SERVICE" CONTROL PANEL SHALL REMAIN.
4. REWORK/EXTEND/RECONNECT EXISTING BRANCH CIRCUIT TO MAINTAIN POWER SOURCE TO JUNCTION BOX ON SOUTH WALL. (COORDINATE IN FIELD)
5. REMOVE EXISTING "STAND ALONE" SMOKE DETECTORS IN APARTMENTS AND CORRIDORS FOLLOWING THE INSTALLATION OF NEW FIRE ALARM SYSTEM DEVICES. PATCH AND PAINT EXISTING CEILING AREAS AFTER REMOVAL OF SMOKE DETECTORS. (VERIFY EXACT LOCATION IN FIELD)
6. COORDINATE RELOCATION/RECONNECTION OF EXISTING EMPLOYEE TIME CLOCK, SECURITY ACCESS KEY RACK, ETC. WITH OWNER'S REPRESENTATIVE TO ACCOMMODATE INSTALLATION OF NEW FIRE ALARM SYSTEM REMOTE ANNUNCIATOR. EXTEND 120 VOLT BRANCH CIRCUIT AND DATA/SIGNAL CONNECTIONS TO RELOCATED EQUIPMENT AS REQUIRED.
7. EXISTING FIRE ALARM SYSTEM MUST REMAIN IN OPERATION UNTIL THE NEW FIRE ALARM SYSTEM IS INSTALLED, SUCCESSFULLY TESTED, AND APPROVED.

NEW WORK KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. NEW FIRE ALARM SYSTEM ZONE ADDRESSABLE CONTROL MODULE FOR STAIRWELL CABINET UNIT HEATER. CONTROL MODULE TO SHUTDOWN UNIT UPON SMOKE DETECTION IN CORRIDOR.
2. NEW FIRE ALARM SYSTEM ZONE ADDRESSABLE CONTROL MODULE FOR STAIRWELL FIRE/SMOKE DAMPER. (CONTROL ZAM TO CLOSE DAMPER UPON SMOKE DETECTION IN CORRIDOR.)
3. PROPOSED LOCATION OF NEW SEMI-RECCESSED "SIMPLEX" 4100ES, 2-BAY REMOTE ANNUNCIATOR PANEL. COORDINATE EXACT LOCATION IN FIELD AND VERIFY MANUFACTURER'S CABINET SIZING PRIOR TO COMMENCING WITH WORK.
4. VERIFY LOCATION OF NEW FIRE ALARM SIGNALING DEVICES ON EXTERIOR OF BUILDING WITH "WSU HISTORIC BUILDING PLANNER" PRIOR TO ROUGH-IN. (COORDINATE WITH WSU PROJECT MANAGER)
5. 2#10 & 1#10 GRD., 3/4"C. (208V.1ø) TO 30A.2P. CIRCUIT BREAKER IN NEW "RP-N". (CIRCUIT #'S 28, 30). PAINT CIRCUIT BREAKER "RED" AND PROVIDE HANDLE PADLOCKS.
6. TWO (2) – 120 VOLT, 20A. BRANCH CIRCUITS TO NEW "RP-N". PROVIDE 3#12 & 1#12 GRD., 3/4"C (CIRCUIT #'S 24 & 26) TO 20A.2P. CIRCUIT BREAKER.
7. SPRINKLER WATER FLOW SWITCH AND OS&Y VALVE TAMPER SWITCH. (VERIFY EXACT LOCATION IN FIELD)
8. 2#10 & 1#10 GRD., 3/4"C. (208V.1ø) TO 30A.2P. CKT. BRKR. IN NEW "RP-N" (CKT.#'S 28&30)
9. TYPICAL PER 2010 NFPA 72, ARTICLE 23.4.2.2: CLASS "A" FIRE ALARM WIRING (OUTGOING AND RETURN CONDUCTORS) SHALL BE HORIZONTALLY SEPARATED BY 48" MINIMUM.
10. PROVIDE TWO (2)-4" CONDUIT SLEEVES FROM AREA ABOVE NEW LAY-IN CEILING IN CORRIDOR TO NEW 1ST FLOOR EQUIPMENT CLOSET 121.3.
11. PROPOSED LOCATION FOR FUTURE GENERATOR REMOTE ANNUNCIATOR PANEL.
12. 12" SQ. FLUSH CEILING MOUNTED ACCESS PANEL TO FACILITATE ROUTING FIRE ALARM SYSTEM WIRING ABOVE INACCESSIBLE CEILING IN LOBBY 116. COORDINATE EXACT LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH WORK.
13. COORDINATE EXACT LOCATION AND MOUNTING OF NEW SMOKE DETECTORS IN LOBBY 116 WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH WORK. (I.E. ADJUST LOCATION OF SMOKE DETECTORS TO SUITE EXISTING BEAM CEILING IN LOBBY).
14. COORDINATE EXACT LOCATION OF FIRE ALARM SYSTEM DEVICES WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO COMMENCING WITH WORK.
15. FIRE ALARM SYSTEM "RED" CONDUITS RUN BETWEEN NEW FIRST FLOOR EQUIPMENT CLOSET AND NEW FIRE ALARM CONTROL PANEL. (CONDUIT SIZE AND QUANTITY TO MEET MANUFACTURE'S/INSTALLER'S REQUIREMENTS)

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	30% PROGRESS REVIEW	03/28/13

DESIGNER	CDK
DRAWN	DNM
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FIRST FLOOR PLAN - FIRE ALARM DEMOLITION & NEW WORK

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-7

DSD FILE NAME
12-4806.00-E-7

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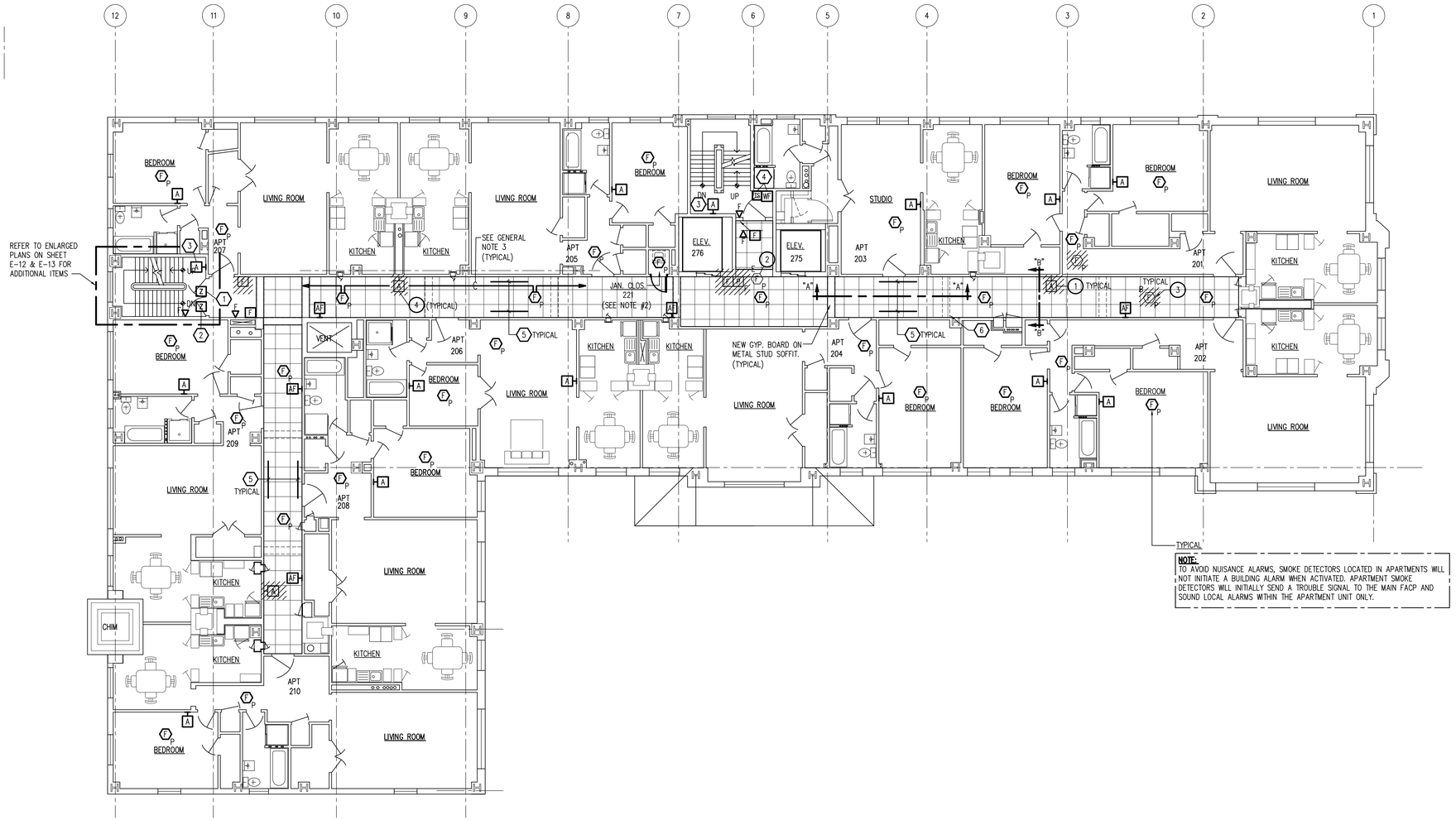

FLOOR PLAN FIRE ALARM (TYPICAL FOR FLOORS 2 THRU 9) –DEMOLITION & NEW WORK

SCALE: 1/8" = 1'–0"

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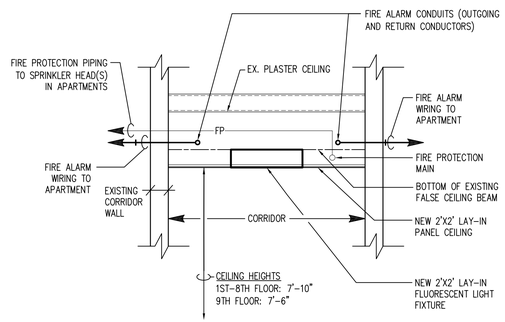
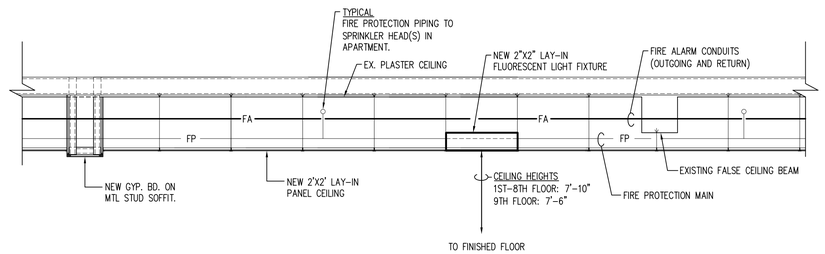


CORRIDOR CEILING SECTION "B–B"

SCALE: 1/2" = 1'–0"

0 1 2 4 8



CORRIDOR CEILING SECTION "A–A"

SCALE: 1/2" = 1'–0"

0 1 2 4 8

GENERAL NOTES:

1. NEW FIRE ALARM SYSTEM DEVICES ARE INDICATED FOR GENERAL LAYOUT REFERENCE ONLY. EXACT LOCATION AND REQUIRED QUANTITY OF DEVICES SHALL BE THE RESPONSIBILITY OF THE SYSTEM PROVIDER/INSTALLING CONTRACTOR TO MEET MANUFACTURER'S RECOMMENDATIONS, FIELD CONDITIONS, AND APPLICABLE CODE REQUIREMENTS.
2. REFER TO JANITOR CLOSET ENLARGED DEMOLITION AND NEW WORK PLANS ON SHEET E–10 & E–11.
3. RUN NEW FIRE ALARM SYSTEM CONDUITS ABOVE LAY–IN CEILING NEAR WALLS OF CORRIDOR TO AVOID INTERFERENCE WITH NEW LIGHTING AND FIRE SUPPRESSION SYSTEMS RUN DOWN MIDDLE OF CORRIDOR. (TYPICAL)
4. NEW FIRE ALARM SYSTEM WIRING WITHIN CORRIDORS SHALL BE RUN IN "RED" CONDUIT (1/2" MIN.). ALL FIRE ALARM SYSTEM WIRING WITHIN APARTMENTS SHALL BE RUN IN SURFACE MOUNTED RACEWAY (PLUGMOLD) DEDICATED FOR FIRE ALARM SYSTEM USE ONLY.

DEMOLITION KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. EXISTING FIRE ALARM SYSTEM DEVICES SHALL REMAIN IN OPERATION UNTIL THE NEW SYSTEM IS INSTALLED, SUCCESSFULLY TESTED, AND APPROVED. (TYPICAL)
2. EXISTING "ELEVATOR CAPTURE" SMOKE DETECTOR TO BE TEMPORARILY LOWERED TO ACCOMMODATE INSTALLATION OF NEW LAY–IN CEILING. PERMANENTLY REMOUNT SMOKE DETECTOR UPON COMPLETION OF CEILING.
3. REMOVE EXISTING "STAND ALONE" SMOKE DETECTORS IN APARTMENTS AND CORRIDORS FOLLOWING THE INSTALLATION OF NEW FIRE ALARM SYSTEM DEVICES. PATCH AND PAINT EXISTING CEILING AREAS AFTER REMOVAL OF SMOKE DETECTORS. (VERIFY EXACT LOCATION IN FIELD)
4. EXISTING WALL MOUNTED FIRE ALARM AUDIBLE DEVICE SHALL BE TEMPORARILY LOWERED TO ACCOMMODATE INSTALLATION OF NEW LAY–IN CEILING. DEVICE WILL BE PERMANENTLY REMOVED FOLLOWING INSTALLATION AND COMMISSIONING OF NEW FIRE ALARM SYSTEM.

NEW WORK KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. NEW FIRE ALARM SYSTEM ZONE ADDRESSABLE CONTROL MODULE FOR STAIRWELL CABINET UNIT HEATER. CONTROL MODULE TO SHUTDOWN UNIT UPON SMOKE DETECTION IN CORRIDOR.
2. NEW FIRE ALARM SYSTEM ZONE ADDRESSABLE CONTROL MODULE FOR STAIRWELL FIRE/SMOKE DAMPER. (CONTROL ZAM TO CLOSE DAMPER UPON SMOKE DETECTION IN CORRIDOR.)
3. AUDIBLE DEVICES IN STAIRWELL SHALL BE LOCATED AT EVERY THIRD FLOOR. (3 TOTAL PER STAIRWELL)
4. SPRINKLER WATER FLOW SWITCH AND OS&Y VALVE TAMPER SWITCH. (TYPICAL FOR EACH FLOOR)
5. TYPICAL PER 2010 NFPA 72, ARTICLE 23.4.2.2: CLASS "A" WIRING (OUTGOING AND RETURN CONDUCTORS) SHALL BE HORIZONTALLY SEPARATED BY 48" MINIMUM.
6. TYPICAL EXISTING FALSE CEILING BEAM.

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DESIGNER	CDK
DRAWN	DNM
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FLOOR PLAN FIRE ALARM (TYPICAL FOR FLOORS 2 THRU 9) -DEMOLITION AND NEW WORK

WSU PROJECT #: 136–195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-8

DSD FILE NAME
12–4806.00–E–8

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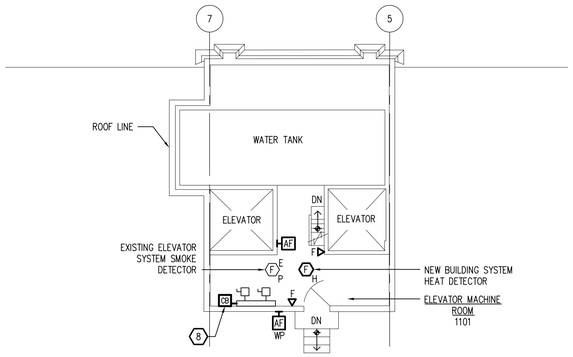
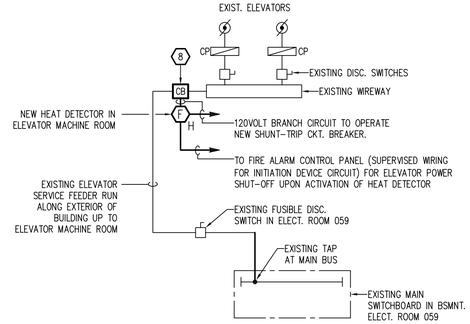


PENTHOUSE PLAN – ELECTRICAL

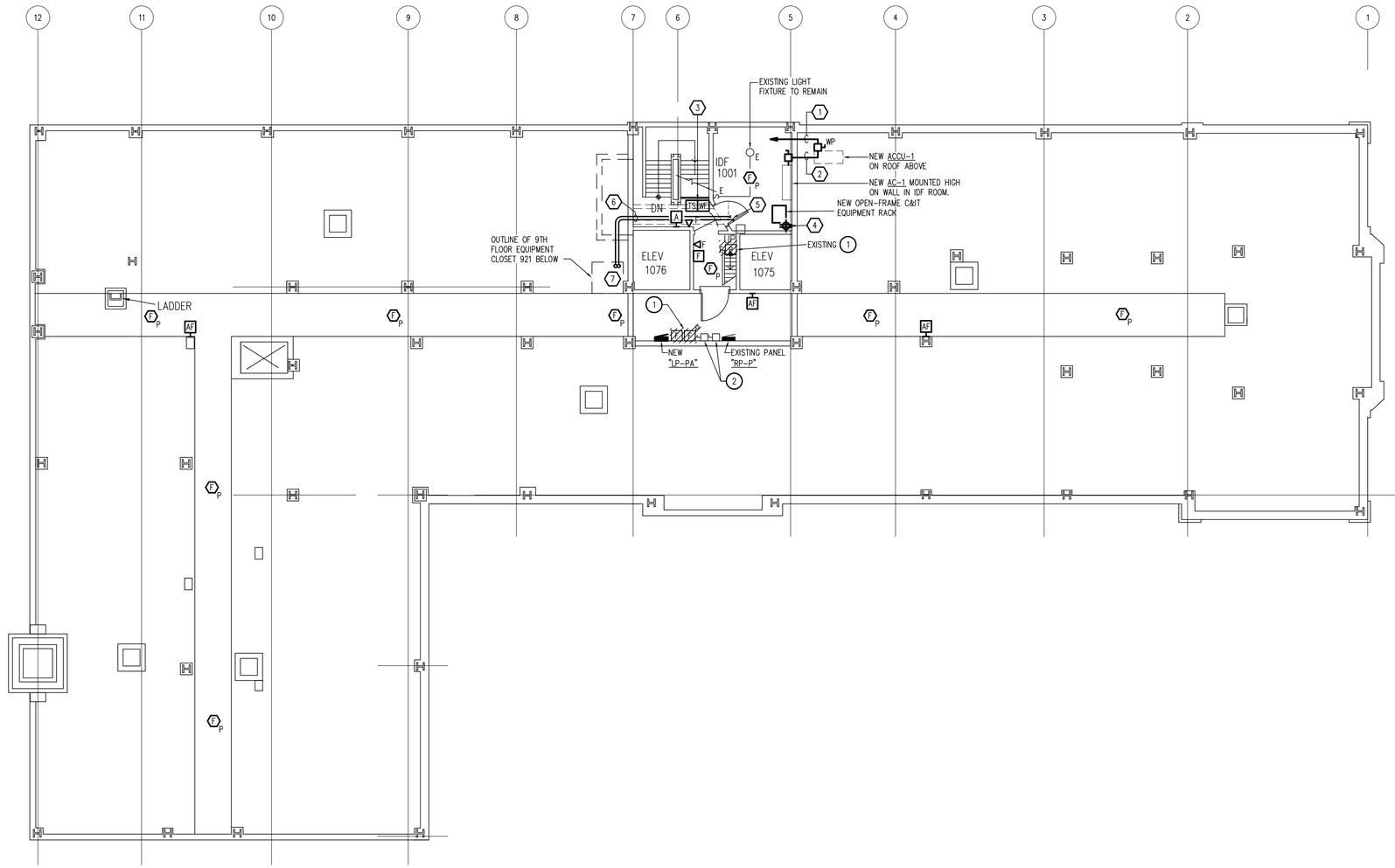
SCALE: 1/8" = 1'-0"

0 4 8 16 32



PARTIAL RISER DIAGRAM – ELEVATOR POWER

NO SCALE



ATTIC PLAN – ELECTRICAL

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

0 4 8 16 32

GENERAL NOTES:

1. NEW FIRE ALARM SYSTEM DEVICES ARE INDICATED FOR GENERAL LAYOUT REFERENCE ONLY. EXACT LOCATION AND REQUIRED QUANTITY OF DEVICES SHALL BE THE RESPONSIBILITY OF THE SYSTEM PROVIDER/INSTALLING CONTRACTOR TO MEET FIELD CONDITIONS, MANUFACTURER'S RECOMMENDATIONS, AND APPLICABLE CODE REQUIREMENTS.

DEMOLITION KEY NOTES:

(APPLICABLE TO THIS SHEET ONLY)

1. EXISTING FIRE ALARM SYSTEM DEVICES SHALL REMAIN IN OPERATION UNTIL THE NEW SYSTEM IS INSTALLED, SUCCESSFULLY TESTED, AND APPROVED. (TYPICAL)
2. EXISTING "ELEVATOR CONTROLLER" DISCONNECT SWITCHES SHALL REMAIN.

NEW WORK KEY NOTES:

(APPLICABLE TO THIS SHEET ONLY)

1. 2#12 & 1#12 GRD., 1/2"C. TO NEW 20A.1P.CKT. BRKR. IN NEW "LP-PA". (CIRCUIT #9)
2. 2#12 & 1#12 GRD., 1/2"C. RUN BETWEEN INDOOR & OUTDOOR UNIT. ALSO, PROVIDE 12-15VDC SIGNAL IN 1/2"C. BETWEEN UNITS.
3. SPRINKLER WATER FLOW SWITCH AND OS&Y VALVE TAMPER SWITCH. (VERIFY EXACT LOCATION IN FIELD)
4. NEW DOUBLE-DUPLEX "QUAD" RECEPTACLE FOR C & IT EQUIPMENT. EACH DUPLEX RECEPTACLE SHALL BE SEPARATELY CIRCUITED FROM NEW "LP-PA", CKT. #8 AND #10.
5. TWO (2)-4" BRUSHED CONDUITS FOR C & IT EQUIPMENT. (SEE SHEET T-5)
6. TWO (2) NEW 4" CONDUIT RUN IN FIRE-RATED ENCLOSURE WITHIN STAIRWELL. (REFER TO DETAILS ON ARCHITECTURAL DRAWINGS)
7. TWO (2)-4" CONDUITS RUN DOWN TO EQUIPMENT CLOSET 921 BELOW, (SEE SHEET E-11 FOR LOCATION)
8. NEW 30OA.3P.208VOLT SHUNT-TRIP CIRCUIT BREAKER WITH 120VOLT OPERATING COIL. COORDINATE EXACT LOCATION IN FIELD PRIOR TO ROUGH-IN. (SEE PARTIAL RISER DIAGRAM THIS SHEET)

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CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

ATTIC AND PENTHOUSE PLANS - ELECTRICAL

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-9

DSD FILE NAME
12-4806.00-E-9

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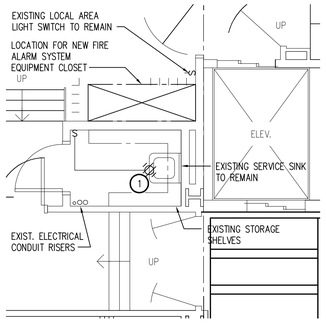
DEMOLITION KEY NOTES:
(APPLICABLE THIS SHEET ONLY)

1. REMOVE EXISTING INCANDESCENT LAMP HOLDER AND BULB. (RETURN TO OWNER)
2. REMOVE EXITING SINGLE POLE SWITCH AND COVERPLATE.

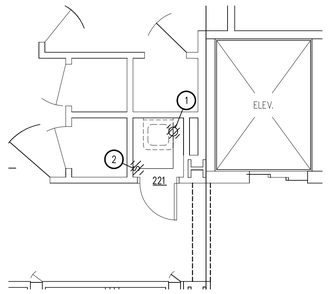


N

JANITOR'S CLOSET – FIRST FLOOR

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

0 2 4 8 16



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JANITOR'S CLOSET – SECOND FLOOR

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

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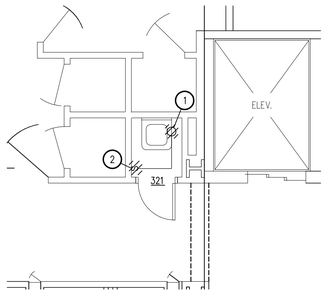

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JANITOR'S CLOSET – THIRD FLOOR

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

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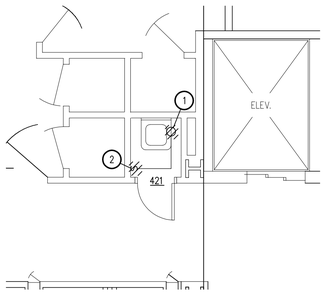

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JANITOR'S CLOSET – FOURTH FLOOR

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

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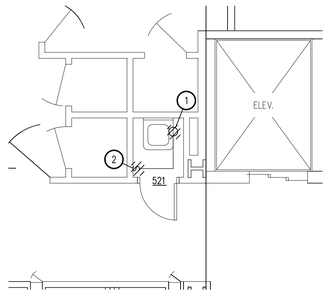

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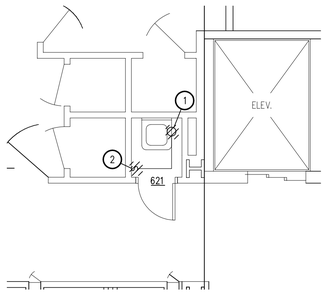
JANITOR'S CLOSET – FIFTH FLOOR

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

0 2 4 8 16



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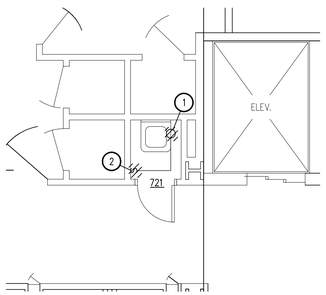
JANITOR'S CLOSET – SIXTH FLOOR

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

0 2 4 8 16



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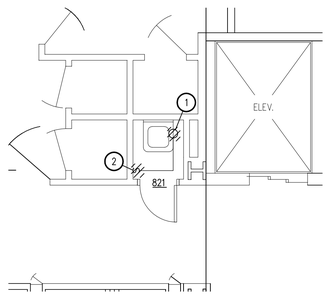
JANITOR'S CLOSET – SEVENTH FLOOR

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

0 2 4 8 16



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JANITOR'S CLOSET – EIGHTH FLOOR

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

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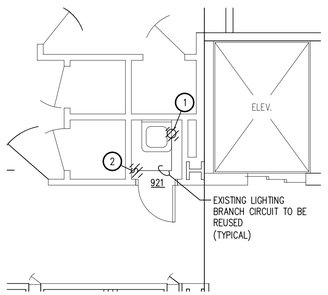

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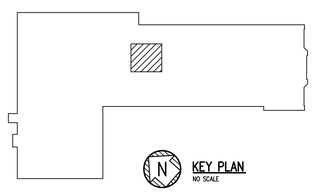
JANITOR'S CLOSET – NINTH FLOOR

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

0 2 4 8 16



EXISTING JANITOR'S CLOSETS – ELECTRICAL DEMOLITION

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CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: **MISCELLANEOUS BUILDING UPGRADES**

CHATSWORTH TOWER APARTMENTS
630 WILLIAMS MALL
DETROIT, MICHIGAN

EXISTING JANITOR'S CLOSETS - ELECTRICAL DEMOLITION

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-10

DSD FILE NAME
12-4806.00-E-10

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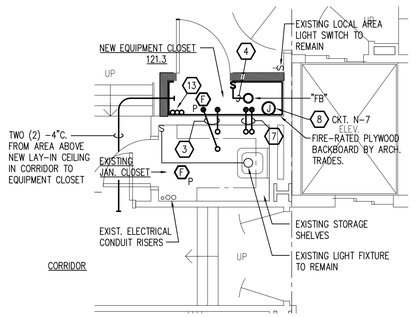

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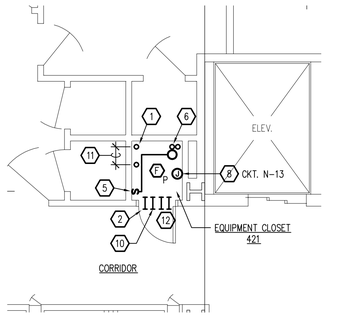
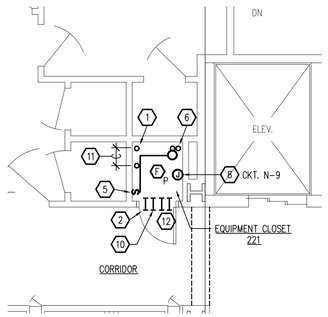
EQUIPMENT CLOSET – FIRST FLOOR

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

0 2 4 8 16





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EQUIPMENT CLOSET – SECOND FLOOR

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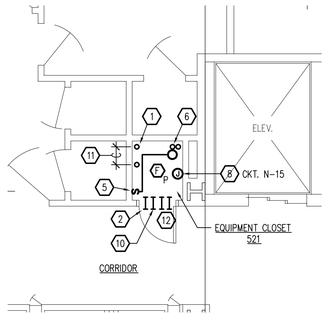

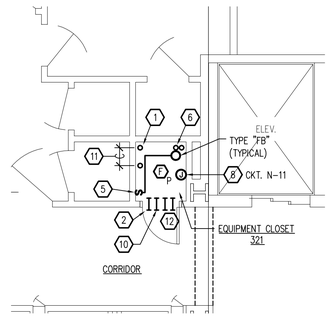

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EQUIPMENT CLOSET – THIRD FLOOR

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

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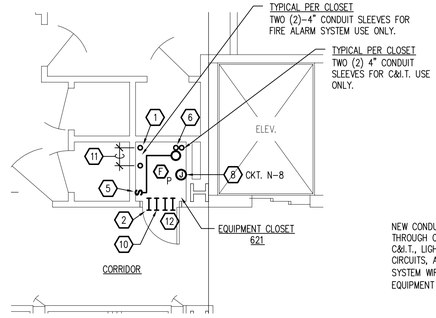

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EQUIPMENT CLOSET – FOURTH FLOOR

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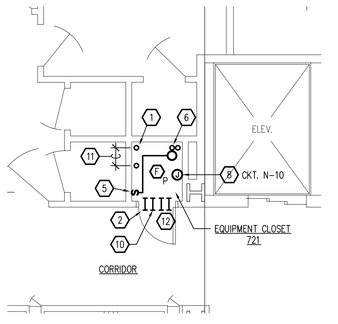

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EQUIPMENT CLOSET – FIFTH FLOOR

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

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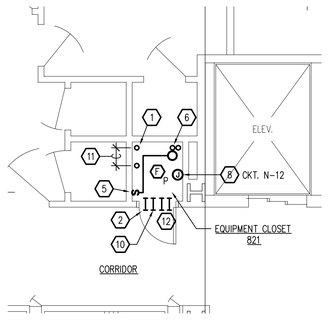

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EQUIPMENT CLOSET – SIXTH FLOOR

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

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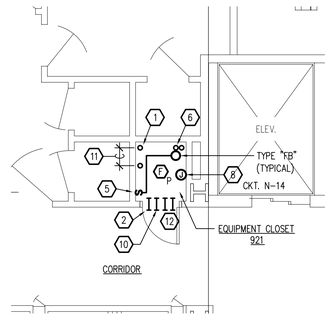

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EQUIPMENT CLOSET – SEVENTH FLOOR

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

0 2 4 8 16

N

EQUIPMENT CLOSET – EIGHTH FLOOR

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

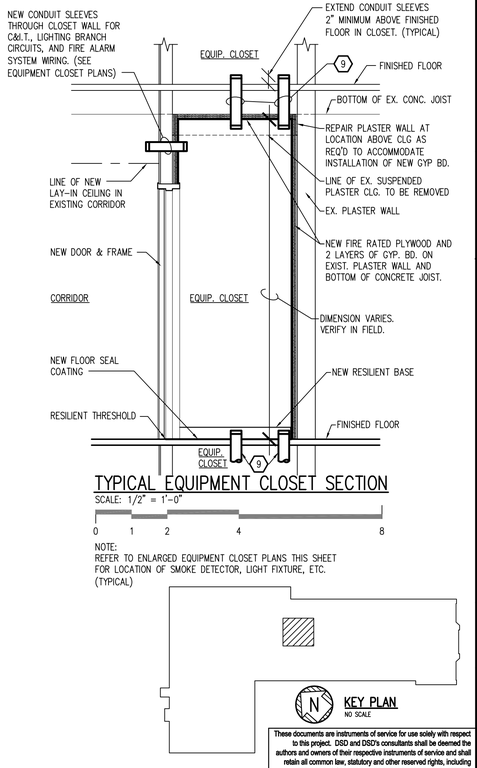
0 2 4 8 16

N

EQUIPMENT CLOSET – NINTH FLOOR

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

0 2 4 8 16



TYPICAL EQUIPMENT CLOSET SECTION

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

0 1 2 4 8

NOTE:
REFER TO ENLARGED EQUIPMENT CLOSET PLANS THIS SHEET FOR LOCATION OF SMOKE DETECTOR, LIGHT FIXTURE, ETC. (TYPICAL)

N KEY PLAN
NO SCALE

NEW WORK KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. TWO (2) NEW – 4" BUSHED CONDUIT SLEEVES AT CLOSET CEILING AND FLOOR TO ACCOMMODATE FIRE ALARM SYSTEM WIRING. ELECTRICAL TRADES SHALL INCLUDE COST TO CONDUCT GROUND PENETRATING RADAR SCAN OF THE FLOOR AND CEILING AREAS PRIOR TO PROCEEDING WITH CONDUIT SLEEVE CORE DRILLING AND INSTALLATION.
2. PROVIDE CONDUIT SLEEVE(S) THROUGH CLOSET WALL TO ACCOMMODATE FIRE ALARM SYSTEM WIRING RUN FROM RACEWAY SYSTEM IN THE CORRIDOR BACK TO THE EQUIPMENT CLOSET. (SIZE AND QUANTITY OF SLEEVES SHALL BE DETERMINED BY EQUIPMENT SUPPLIER/INSTALLER.)
3. TWO (2) NEW – 4" BUSHED CONDUITS (FOR FIRE ALARM WIRING) RUN DOWN THROUGH FLOOR OF EQUIPMENT CLOSET AT SECOND FLOOR AND TURNED DOWN INTO/THROUGH CEILING OF NEW CLOSET AT FIRST FLOOR. CONDUITS TO TURN AND PASS ABOVE EXISTING STORAGE SHELVING IN JANITOR CLOSET. (COORDINATE CONDUIT ROUTING IN FIELD.)
4. CONNECT TO 120VOLT BRANCH CIRCUIT FEEDING LIGHTING IN EXISTING JANITOR CLOSET.
5. NEW LIGHT SWITCH AND COVERPLATE TO REPLACE EXISTING. PROVIDE SWITCH BOX EXTENSION RING TO ACCOMMODATE INCREASED THICKNESS OF NEW FIRE-RATED PLYWOOD ON EXISTING WALL SURFACE.
6. TWO (2) NEW-4" BUSHED CONDUIT SLEEVES AT CLOSET CEILING AND FLOOR TO ACCOMMODATE C&IT SYSTEMS WIRING.
7. TWO (2) NEW-4" BUSHED CONDUITS (FOR C&IT CABLING) RUN DOWN THROUGH FLOOR OF EQUIPMENT CLOSET AT SECOND FLOOR AND TURNED DOWN INTO/THROUGH CEILING OF NEW CLOSET AT FIRST FLOOR. CONDUITS TO TURN AND PASS ABOVE EXISTING STORAGE SHELVING IN JANITOR CLOSET. (COORDINATE CONDUIT ROUTING IN FIELD)
8. NEW WALL MOUNTED JUNCTION BOX AT 48" A.F.F. FOR 120VOLT, 20A. BRANCH CIRCUIT FOR FUTURE C&IT EQUIPMENT. (FED FROM NEW RECEPTACLE PANEL RP-"N" ON FIRST FLOOR. SEE SHEET E-4.) PROVIDE A SEPARATE HOT, NEUTRAL, & GROUND CONDUCTOR FOR EACH BRANCH CIRCUIT FEEDING C & I.T. EQUIPMENT (SHARED NEUTRAL/MULTI-WIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE).
9. NEW BUSHED CONDUIT SLEEVES THROUGH EXISTING FLOOR FOR FIRE ALARM, AND C & I.T. SYSTEM WIRING. (REFER TO ENLARGED PLANS THIS SHEET FOR CONDUIT SLEEVE QUANTITIES AND SUGGESTED LOCATIONS).
10. ONE (1) – 1" CONDUIT SLEEVE THROUGH CLOSET WALL TO ACCOMMODATE NEW CORRIDOR LIGHTING SYSTEM BRANCH CIRCUIT WIRING RUN FROM CORRIDOR BACK TO THE EQUIPMENT CLOSET.
11. PER 2010 NFPA 72 ARTICLE 23.4.2.2, CLASS "A" FIRE ALARM WIRING (OUTGOING AND RETURN CONDUCTORS) SHALL BE VERTICALLY SEPARATED BY 12" MINIMUM.
12. TWO (2) – 4" CONDUIT SLEEVES THROUGH CLOSET WALL FOR C&I.T. SYSTEM WIRING. (REFER TO SHEET T-7)
13. PROPOSED LOCATION FOR THREE(3) NEW 4" CONDUITS FOR C&IT CABLING UP FROM BASEMENT BELOW. (SEE SHEET E-2)

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	30% PROGRESS REVIEW	03/28/13

DESIGNER	CDK
DRAWN	DNM
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FIRE ALARM SYSTEM EQUIPMENT CLOSETS - ELECTRICAL NEW WORK

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-11

DSD FILE NAME
12-4806.00-E-11

FIRE ALARM SYSTEM EQUIPMENT CLOSETS – ELECTRICAL NEW WORK

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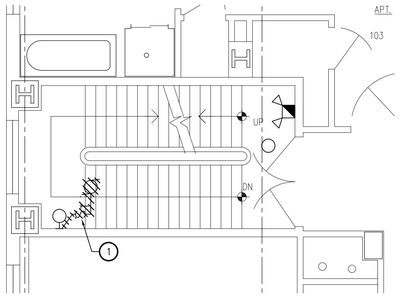
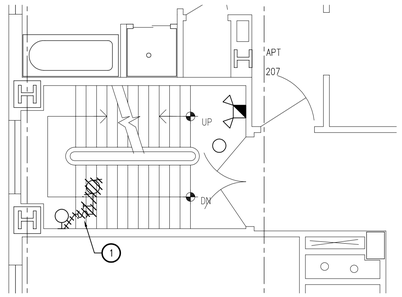


NORTH STAIRWELL FIRST FLOOR PLAN – DEMOLITION

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

0 2 4 8 16



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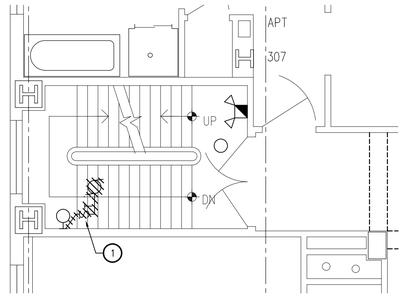

NORTH STAIRWELL THIRD FLOOR PLAN – DEMOLITION

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

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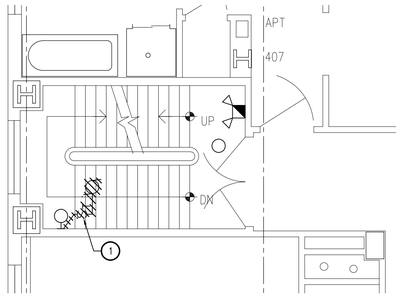

NORTH STAIRWELL FOURTH FLOOR PLAN – DEMOLITION

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

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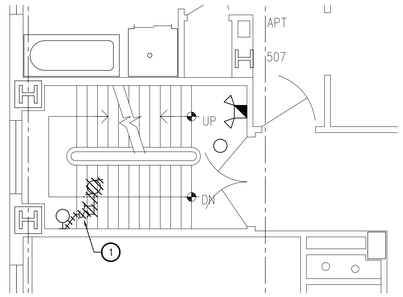

NORTH STAIRWELL FIFTH FLOOR PLAN – DEMOLITION

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

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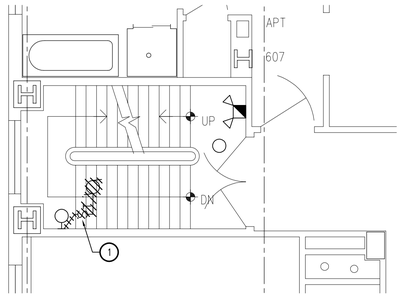

NORTH STAIRWELL SIXTH FLOOR PLAN – DEMOLITION

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

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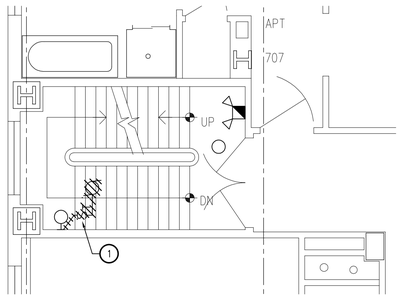

NORTH STAIRWELL SEVENTH FLOOR PLAN – DEMOLITION

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

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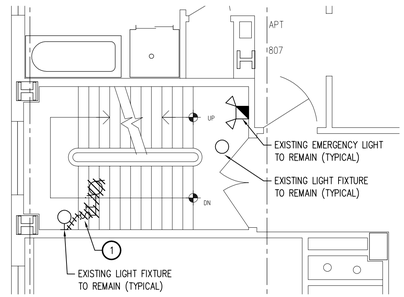

NORTH STAIRWELL EIGHTH FLOOR PLAN – DEMOLITION

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

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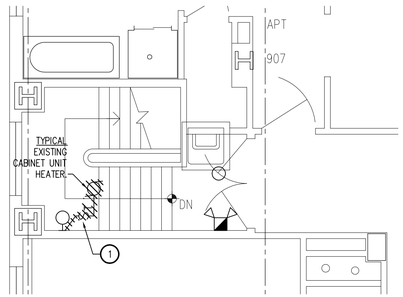


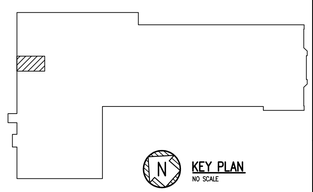
NORTH STAIRWELL NINTH FLOOR PLAN – DEMOLITION

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

0 2 4 8 16

DEMOLITION KEY NOTES:

1. DISCONNECT CABINET UNIT HEATER AND REMOVE WIRING AND CONDUITS BACK TO NEAREST JUNCTION POINT. REPAIR RACEWAYS/BOXES WITH APPROPRIATE PLUGS/COVERS TO MAINTAIN RACEWAY INTEGRITY.



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PROJECT MGR	SM

TITLE: **MISCELLANEOUS BUILDING UPGRADES**

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

ENLARGED NORTH STAIRWELL 1ST THRU 9TH FLOOR PLANS - DEMOLITION

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.

12-4806.00

SHEET NO.

E-12

DSD FILE NAME

12-4806.00-E-12

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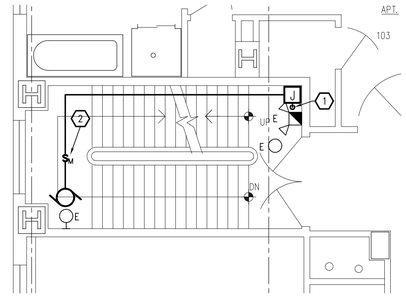

NORTH STAIRWELL FIRST FLOOR PLAN – NEW WORK

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

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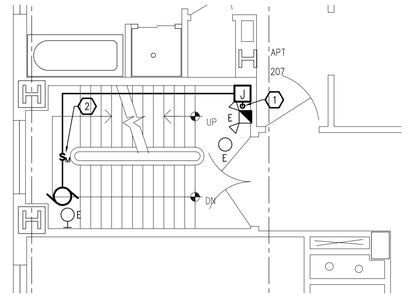

NORTH STAIRWELL SECOND FLOOR PLAN – NEW WORK

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

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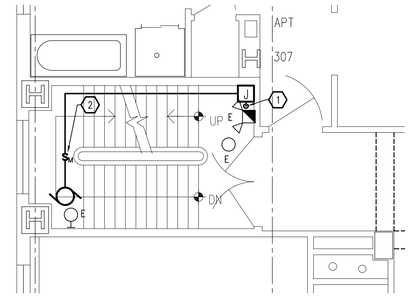

NORTH STAIRWELL THIRD FLOOR PLAN – NEW WORK

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

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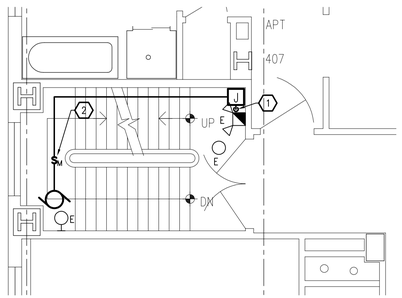

NORTH STAIRWELL FOURTH FLOOR PLAN – NEW WORK

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

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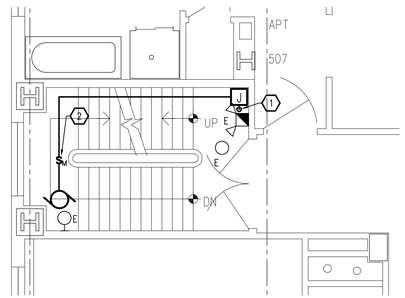

NORTH STAIRWELL FIFTH FLOOR PLAN – NEW WORK

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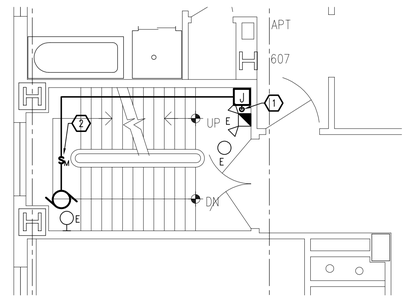

NORTH STAIRWELL SIXTH FLOOR PLAN – NEW WORK

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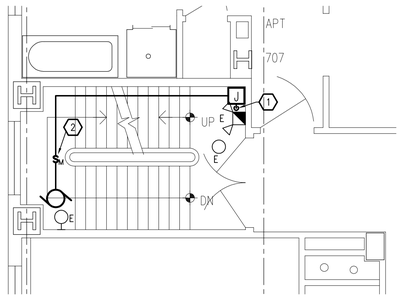

NORTH STAIRWELL SEVENTH FLOOR PLAN – NEW WORK

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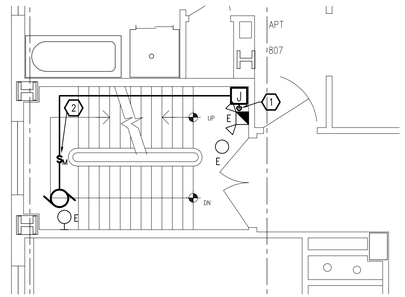

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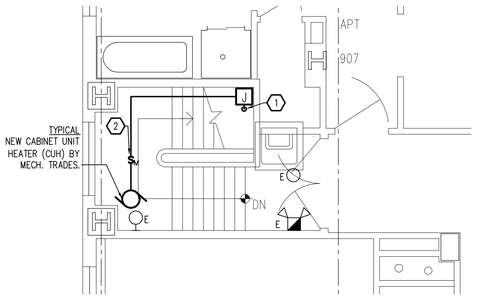


NORTH STAIRWELL NINTH FLOOR PLAN – NEW WORK

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

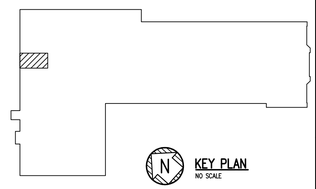
0 2 4 8 16

GENERAL NOTES:

1. GROUP FIRST, SECOND, AND THIRD FLOOR CUH'S ON ONE (1) 20A 208V, 1ø CIRCUIT FROM LP-"1A".
2. GROUP FOURTH, FIFTH, AND SIXTH FLOOR CUH'S ON ONE (1) 20A 208V 1ø CIRCUIT FROM LP-"1A".
3. GROUP SEVENTH, EIGHTH, AND NINTH FLOOR CUH'S ON ONE (1) 20A 208V, 1ø CIRCUIT FROM LP-"1A".

NEW WORK KEY NOTES:

1. CORE HOLES THROUGH FLOOR TO ACCOMMODATE ROUTING OF NEW BRANCH CIRCUIT CONDUITS. (EMT CONDUIT WITH APPROVED FIRE STOP PRODUCT AT EACH FLOOR PENETRATION).
2. PROVIDE MOTOR RATED SWITCH WITH PAD LOCKING PROVISIONS. MOUNT TO SIDE OF CUH.



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NEW "RP-N"

208/120VOLT–3PHASE–4WIRE+GRND PANELBOARD SCHEDULE

PANELBOARD DESIGNATION "RP–N" LOCATION FIRST FLOOR – RECEIVING 121
200 AMP BUS ____ M.C.B. X M.L.O. MOUNTING: FLUSH __ SURFACE X
SPECIAL REQUIREMENTS

CKT NO.	VA	LOAD TYPE	LOAD TYPE	VA	CKT No.
1	130	LIGHTING	1 ⏚	180	2
3	360	2 ⏚	SPARE	.	4
5	180	1 ⏚	SPARE	.	6
7	1200	I.T.Ⓙ – 1ST FLOOR	I.T.Ⓙ – 6TH FLOOR	1200	8
9	1200	I.T.Ⓙ – 2ND FLOOR	I.T.Ⓙ – 7TH FLOOR	1200	10
11	1200	I.T.Ⓙ – 3RD FLOOR	I.T.Ⓙ – 8TH FLOOR	1200	12
13	1200	I.T.Ⓙ – 4TH FLOOR	I.T.Ⓙ – 9TH FLOOR	1200	14
15	1200	I.T.Ⓙ – 5TH FLOOR	SPARE	.	16
17	.	SPARE	SPARE	.	18
19	.	SPACE	SPARE	.	20
21	.	SPACE	SPARE	.	22
23	.	SPACE	NEW FACP	1000	24 ●
25	.	SPACE	NEW FACP	1000	26 ●
27	.	SPARE	NEW PTAC–1	2200	28
29	.	SPARE	_____	2200	30

LIGHTING 130 VA AT 100 % = 130 VA
RECEPTACLE 720 VA AT 100 % = 720 VA (FIRST 10,000 VA AT 100%)
MISC. 21200 VA AT 60 % = 12720 VA
TOTAL 22050 VA TOTAL DEMAND = 13570 VA / 360 V = 37.7 A

● BRANCH CIRCUIT BREAKERS FEEDING FIRE ALARM SYSTEM EQUIPMENT SHALL BE PAINTED RED AND PROVIDED WITH PAD–LOCKABLE "LOCK–ON" DEVICES. PANEL DIRECTORY SHALL HAVE ALL FIRE ALARM ASSIGNED CIRCUIT BREAKERS "HIGH–LIGHTED".

NEW "LP-1A"

208/120VOLT–3PHASE–4WIRE+GRND PANELBOARD SCHEDULE

PANELBOARD DESIGNATION "LP–1A" LOCATION FIRST FLOOR – RECEIVING 121
200 AMP BUS ____ M.C.B. X M.L.O. MOUNTING: FLUSH __ SURFACE X
SPECIAL REQUIREMENTS

CKT NO.	VA	LOAD TYPE	LOAD TYPE	VA	CKT No.
1	500	CORRIDOR LIGHTING (1ST)	CORRIDOR LIGHTING (4TH)	500	2
3	500	CORRIDOR LIGHTING (2ND)	CORRIDOR LIGHTING (5TH)	500	4
5	500	CORRIDOR LIGHTING (3RD)	SPARE	.	6
7	.	SPARE	SPARE	.	8
9	.	SPARE	SPARE	.	10
11	.	SPARE	SPARE	.	12
13	.	SPACE	SPACE	.	14
15	.	SPACE	SPACE	.	16
17	.	SPACE	SPACE	.	18
19	1200	3 CUH'S	SPACE	.	20
21	1200	(1st, 2nd, 3rd)	SPACE	.	22
23	1200	3 CUH'S	SPACE	.	24
25	1200	(4th, 5th, 6th)	NEW "LP–PA"	2000	26
27	1200	3 CUH'S	_____	.	28
29	1200	(7th, 8th, 9th)	_____	.	30

LIGHTING 2500 VA AT 100 % = 2500 VA
RECEPTACLE – VA AT 100 % = – VA (FIRST 10,000 VA AT 100%)
MISC. 9200 VA AT 100 % = 9200 VA
TOTAL 11700 VA TOTAL DEMAND = 11700 VA / 360 V = 32.5 A

NEW "LP-PA"

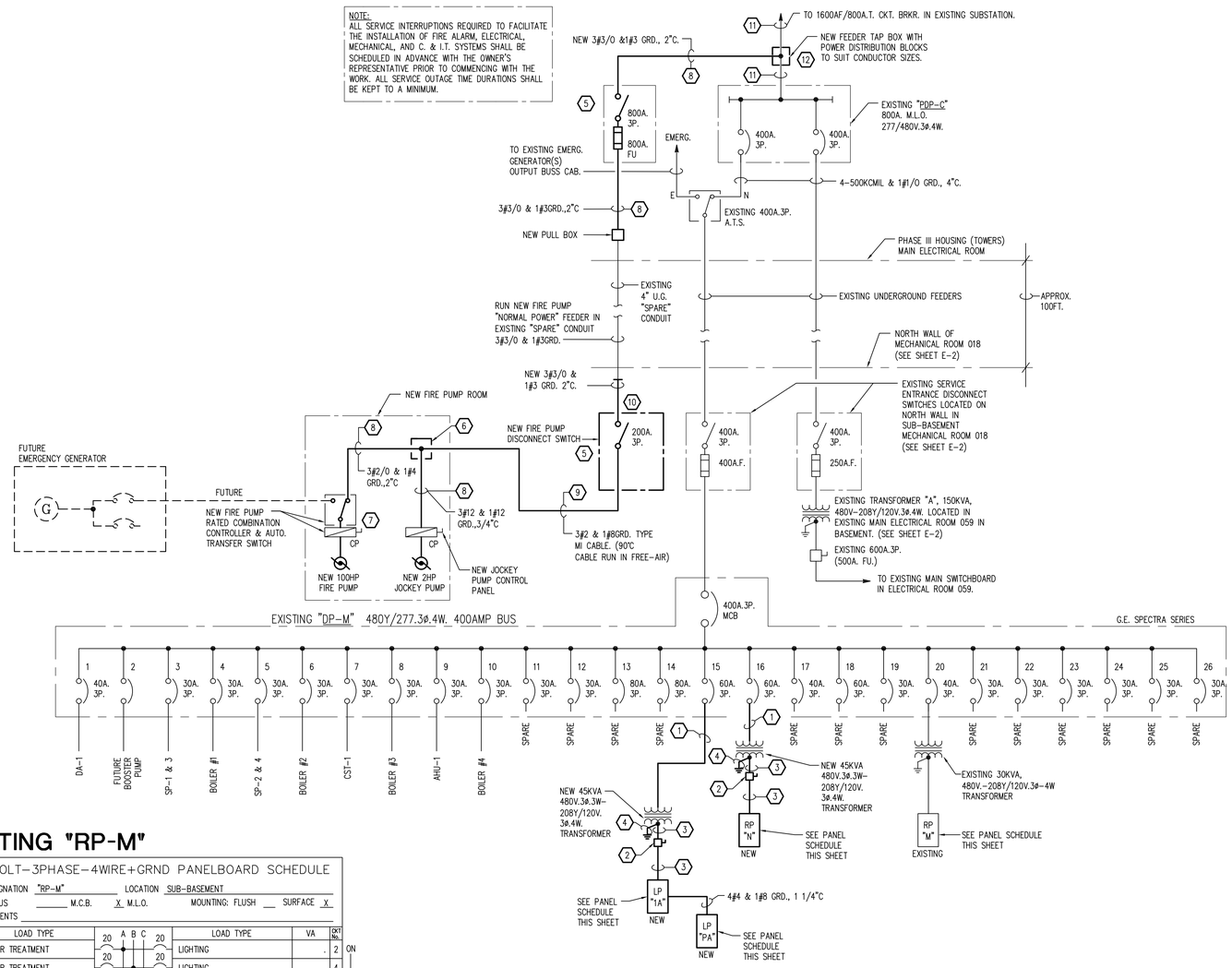
208/120VOLT–3PHASE–4WIRE+GRND PANELBOARD SCHEDULE

PANELBOARD DESIGNATION "LP–PA" LOCATION PENTHOUSE/ATTIC
100 AMP BUS ____ M.C.B. X M.L.O. MOUNTING: FLUSH __ SURFACE X
SPECIAL REQUIREMENTS

CKT NO.	VA	LOAD TYPE	LOAD TYPE	VA	CKT No.
1	500	CORRIDOR LIGHTING (9TH)	CORRIDOR LIGHTING (7TH)	500	2
3	500	CORRIDOR LIGHTING (8TH)	CORRIDOR LIGHTING (6TH)	500	4
5	.	SPARE	SPARE	.	6
7	.	SPARE	ATTIC C & IT ⏚	600	8
9	800	AC–1/ACCU–1	ATTIC C & IT ⏚	600	10
11	.	SPACE	SPACE	.	12
13	.	SPACE	SPACE	.	14
15	.	SPACE	SPACE	.	16
17	.	SPACE	SPACE	.	18
19	.	SPACE	SPACE	.	20
21	.	SPACE	SPACE	.	22
23	.	SPACE	SPACE	.	24

LIGHTING 2000 VA AT 100 % = 2000 VA
RECEPTACLE – VA AT 100 % = – VA (FIRST 10,000 VA AT 100%)
MISC. 2000 VA AT 100 % = 2000 VA
TOTAL 4000 VA TOTAL DEMAND = 4000 VA / 360 V = 11.1 A

NOTE:
ALL SERVICE INTERRUPTIONS REQUIRED TO FACILITATE THE INSTALLATION OF FIRE ALARM, ELECTRICAL, MECHANICAL, AND C. & I.T. SYSTEMS SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH THE WORK. ALL SERVICE OUTAGE TIME DURATIONS SHALL BE KEPT TO A MINIMUM.



EXISTING "RP-M"

120/208VOLT–3PHASE–4WIRE+GRND PANELBOARD SCHEDULE

PANELBOARD DESIGNATION "RP–M" LOCATION SUB–BASEMENT
225 AMP BUS ____ M.C.B. X M.L.O. MOUNTING: FLUSH __ SURFACE X
SPECIAL REQUIREMENTS

	CKT NO.	VA	LOAD TYPE	LOAD TYPE	VA	CKT No.	
ON	1	.	BOILER TREATMENT	LIGHTING	.	2	ON
	3	.	BOILER TREATMENT	LIGHTING	.	4	
	5	.	BOILER TREATMENT	LIGHTING	.	6	
	7	.	BOILER TREATMENT	LIGHTING	.	8	
	9	.	WATER SOFTNER	LIGHTING	.	10	
	11	.	AC–1	LIGHTING (BSMNT.)	.	12	ON
	13	.	– BASEMENT	F.A. CONTROL PNL. ●	.	14	*
	15	.	– OFFICE	FLOW METER	.	16	ON
	17	.	– BASEMENT	FLOW METER	.	18	
	19	.	BOILER SEQ. PANEL	FLOW METER	.	20	
	21	.	INTERCOM	DOOR OPENER	.	22	
	23	.	SECURITY	Ⓙ BASEMENT CATV	600	24	
	25	.	PIT SUMP PUMP	SPRINKLER	.	26	ON
	27	.	PIT SUMP PUMP	SIEMENS	.	28	
	29	.	PIT LTS & GCFI's	––	.	30	
	31	.	AIR COND.	AIR COND.	.	32	
	33	.	––	AIR COND.	.	34	
	35	.	AIR COND.	AIR COND.	.	36	
	37	.	––	⏚ BASEMENT C & IT	800	38	
OFF	39	.	TEMP CONTROL	⏚ BASEMENT C & IT	800	40	
OFF	41	.	TEMP CONTROL	⏚ & SF–1 IN FIRE PUMP ROOM	880	42	

LIGHTING . VA AT 100 % = . VA
RECEPTACLE . VA AT 100 % = 10000 VA (FIRST 10,000 VA AT 100%)
RECEPTACLE . VA AT 50 % = . VA
MISC. . VA AT . % = . VA
TOTAL . VA TOTAL DEMAND = . VA / 360 V = . A

● BRANCH CIRCUIT BREAKERS FEEDING FIRE ALARM SYSTEM EQUIPMENT SHALL BE PAINTED RED AND PROVIDED WITH PAD–LOCKABLE "LOCK–ON" DEVICES. PANEL DIRECTORY SHALL HAVE ALL FIRE ALARM ASSIGNED CIRCUIT BREAKERS "HIGH–LIGHTED".

* EXISTING CIRCUIT BREAKER "LOCK–ON" DEVICE. (NOT PAD LOCKABLE)

ELECTRICAL – ONE LINE DIAGRAM

NOT TO SCALE

DIAGRAM KEY NOTES:

1. NEW 3#4+1#8GRD., 1"C.
2. NEW 200/150A.F. FUSIBLE DISCONNECT SWITCH.
3. NEW 4#1/0+1#6GRD., 2"C
4. 1#6GRD. TO BUILDING STEEL.
5. NEW FIRE PUMP DISCONNECTING MEANS SHALL BE SERVICE ENTRANCE RATED, BE LOCKED IN THE "CLOSED" POSITION, AND LABELED/MARKED "CHATSWORTH FIRE PUMP DISCONNECTING MEANS" TO COMPLY WITH 2008 NEC ARTICLE 695.4 (B)(2) & (3).
6. NEW TAP BOX (OBSERVE REQUIREMENTS OF 10 FT. TAP RULE).
7. PER 2008 NEC ARTICLE 695.4 (B)(4) REQUIREMENTS, A PLACARD SHALL BE PLACED ADJACENT TO THE FIRE PUMP CONTROLLER STATING THE LOCATION OF THE "FIRE PUMP DISCONNECTING MEANS" AND THE LOCATION OF THE KEY FOR THE LOCK. (SEE KEY NOTE 5).
8. PER NEC ARTICLE 695.6(B) EXCEPTION, SUPPLY CONDUCTORS LOCATED IN THE ELECTRICAL EQUIPMENT ROOM WHERE THEY ORIGINATE AND CONDUCTORS WITHIN THE FIRE PUMP ROOM ARE NOT REQUIRED TO BE FIRE RATED.
9. PER 2008 NEC ARTICLE 695.6 (B), CIRCUIT CONDUCTORS ON THE LOAD SIDE OF THE FINAL DISCONNECTING MEANS SHALL BE PERMITTED TO BE ROUTED THROUGH A BUILDING PROVIDED THE WIRING METHOD IS LISTED AS AN ELECTRICAL CIRCUIT PROTECTIVE SYSTEM WITH A MINIMUM 2–HOUR FIRE RATING. (PROVIDE TYCO "PYROTENAX" SYSTEM 1850, 2–HOUR FIRE–RATED CABLE RUN AS AN OPEN–WIRE/FREE–AIR PROTECTIVE SYSTEM OR APPROVED EQUAL).
10. NEW DISCONNECT SWITCH LOCATED ON NORTH WALL IN SUB–BASEMENT MECHANICAL ROOM 018. (SEE FLOOR PLAN ON SHEET E–2)
11. EXISTING TWO (2)–3"C. EACH W/4–500KCMIL & 1# 1/0 GRND.
12. PER 2008 NEC ARTICLE 695.3 (A) (1)..."A FIRE PUMP SHALL BE PERMITTED TO BE SUPPLIED BY A SEPARATE SERVICE, OR FROM A CONNECTION LOCATED AHEAD OF AND NOT WITHIN THE SAME CABINET, ENCLOSURE, OR VERTICAL SWITCH BOARD SECTION AS THE SERVICE DISCONNECTING MEANS....A TAP AHEAD OF THE SERVICE DISCONNECTING MEANS SHALL COMPLY WITH ARTICLE 230.82 (5)".

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	30% PROGRESS REVIEW	03/28/13

DESIGNER	CDK
DRAWN	DNM
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

ELECTRICAL DIAGRAMS AND DETAILS

WSU PROJECT #: 136–195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

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E-14

DSD FILE NAME
12–4806.00–E–14

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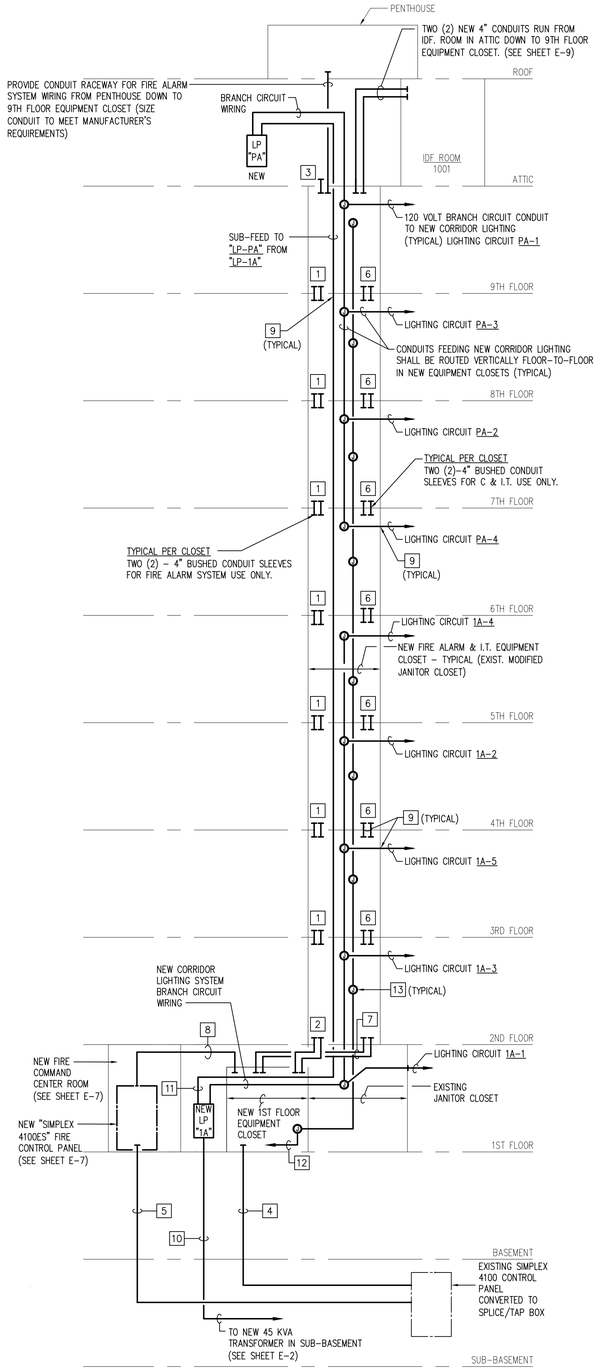


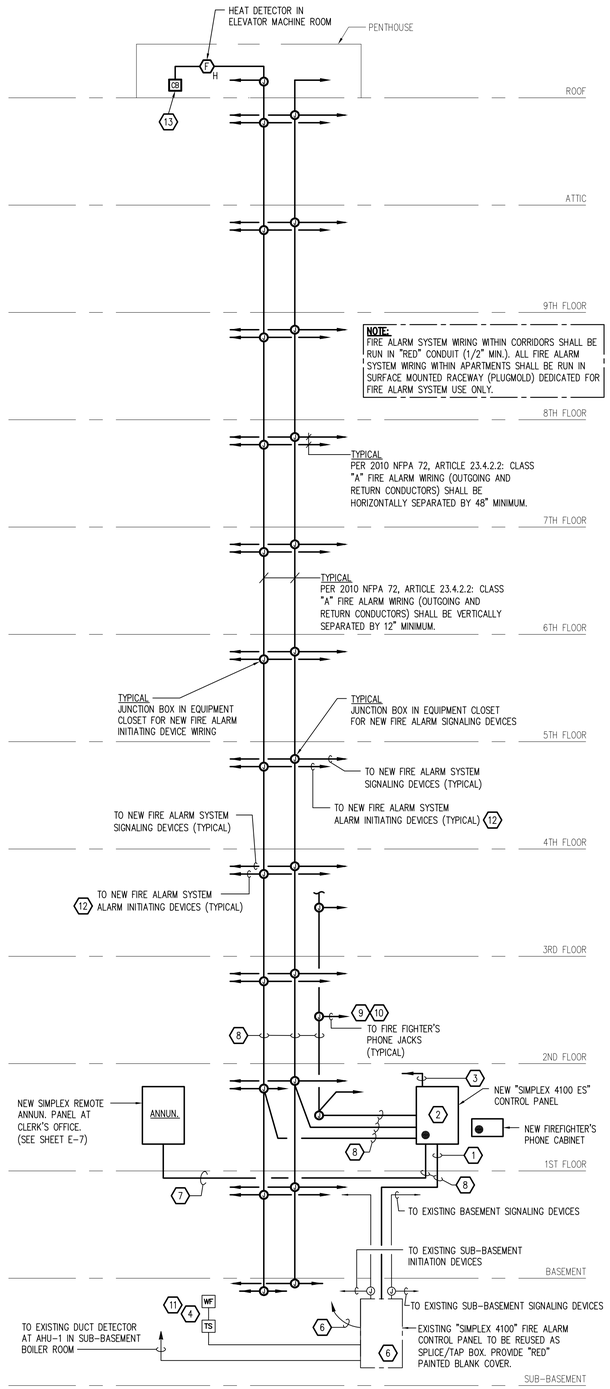
FIRE ALARM & I.T. EQUIPMENT CLOSET – RACEWAY RISER DIAGRAM

NO SCALE (RACEWAYS FOR FIRE ALARM, C & I.T. CABLING, C & I.T. POWER, AND NEW LIGHTING SYSTEM BRANCH CIRCUIT WIRING)

NOTE:
RISER IS ONLY DIAGRAMMATICAL TO ILLUSTRATE CONDUIT AND CONDUIT SLEEVE PATHWAYS. ACTUAL CONDUIT ROUTING, QUANTITIES, AND ORIENTATION SHALL BE COORDINATED IN FIELD TO MEET MANUFACTURER'S RACEWAY REQUIREMENTS.

RACEWAY KEY NOTES:

1. PROVIDE TWO (2) – 4" BUSHED CONDUIT SLEEVES THROUGH FLOOR TO CLOSET BELOW. (REFER TO EQUIPMENT CLOSET DETAILS ON SHEET E-11 FOR CONDUIT LOCATIONS).
2. PROVIDE TWO (2) – 4" BUSHED CONDUITS RUN DOWN THROUGH FLOOR AND TURNED DOWN INTO/THROUGH CEILING OF NEW EQUIPMENT CLOSET.
3. PROVIDE SUITABLE CONDUIT RACEWAY/SLEEVE INTO 9TH FLOOR EQUIPMENT CLOSET TO ACCOMMODATE WIRING FROM FIRE ALARM DEVICES IN THE ATTIC. (CONDUIT SIZE TO MEET INSTALLATION REQUIREMENTS)
4. PROVIDE CONDUIT RACEWAY(S) FOR ROUTING FIRE ALARM SYSTEM WIRING FROM 1ST FLOOR EQUIPMENT CLOSET DOWN TO SPLICE/TAP BOX IN SUB-BASEMENT. (SIZE CONDUITS TO MEET INSTALLATION REQUIREMENTS)
5. PROVIDE CONDUIT RACEWAY(S) FOR WIRING FROM SPLICE/TAP BOX UP TO NEW FIRE ALARM SYSTEM PANEL AT FIRST FLOOR FIRE COMMAND CENTER. (CONDUIT SIZE TO MEET MANUFACTURER'S REQUIREMENTS)
6. PROVIDE TWO (2) NEW-4" BUSHED CONDUIT SLEEVES WITH PULL STRING THROUGH FLOOR TO CLOSET BELOW FOR C&IT CABLING.
7. PROVIDE TWO (2) NEW-4" BUSHED CONDUITS RUN DOWN THROUGH FLOOR AND TURNED DOWN INTO/THROUGH CEILING OF NEW EQUIPMENT CLOSET. (FOR C&IT CABLING)
8. PROVIDE CONDUIT RACEWAY(S) BETWEEN NEW FIRST FLOOR EQUIPMENT CLOSET AND NEW FIRE COMMAND CENTER. (CONDUIT SIZE AND QUANTITY TO MEET MANUFACTURER'S REQUIREMENTS)
9. SEAL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS USING FIRE-SEALING CAULK APPROVED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
10. COORDINATE FEEDER ROUTING IN FIELD.
11. SUB-FEED TO "LP-PA" IN PENTHOUSE/ATTIC. (SEE ONE LINE DIAGRAM ON SHEET E-14). COORDINATE FEEDER ROUTING IN FIELD.
12. BRANCH CIRCUIT CONDUITS TO NEW "RP-N" IN RECEIVING 121 (SEE SHEET E-7). CONDUIT QUANTITIES SHALL BE DETERMINED IN FIELD BASED UPON ALLOWABLE CONDUIT FILL, CONDUCTOR DERATING, VOLTAGE DROP, ETC.
13. WALL MOUNTED 120 VOLT BRANCH CIRCUIT JUNCTION BOX AT 48" A.F.F. FOR C & I.T. EQUIPMENT. (REFER TO EQUIPMENT CLOSET DETAILS ON SHEET E-11).



FIRE ALARM RISER DIAGRAM

NO SCALE

● LOCATED IN NEW FIRST FLOOR FIRE COMMAND CENTER ROOM 121.2

GENERAL NOTES:

1. SEE FLOOR PLANS FOR SUGGESTED LOCATION OF FIRE ALARM SYSTEM DEVICES. (NOTE: NEW FIRE ALARM SYSTEM DEVICES INDICATED ON THE DRAWINGS ARE FOR GENERAL LAYOUT REFERENCE ONLY. EXACT LOCATION AND REQUIRED/ADDITIONAL QUANTITY OF DEVICES SHALL BE THE RESPONSIBILITY OF THE SYSTEM PROVIDER/INSTALLING CONTRACTOR TO MEET MANUFACTURER'S RECOMMENDATIONS, FIELD CONDITIONS, AND APPLICABLE CODE REQUIREMENTS.)
2. FIRE ALARM SYSTEM WIRING WITHIN CORRIDORS SHALL BE RUN IN "RED" CONDUIT (1/2" MIN.). ALL FIRE ALARM SYSTEM WIRING WITHIN APARTMENTS SHALL BE RUN IN SURFACE MOUNTED RACEWAY (PLUGMOLD). ALL WIRING SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS UNLESS OTHERWISE INDICATED.
3. IN AREAS WHERE MORE THAN TWO (2) VISIBLE NOTIFICATION APPLIANCES ARE IN ANY FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION.
4. AUDIBLE DEVICES SHALL BE LOCATED IN ACCORDANCE WITH N.F.P.A. REQUIREMENTS. (AUDIBLE TO BE A MINIMUM OF 15db OVER AMBIENT NOISE LEVEL).
5. ALL PROGRAMMING REQUIRED TO ACTIVATE THE FIRE ALARM SYSTEM SHALL BE PROVIDED BY THE MANUFACTURER OR THEIR TRAINED REPRESENTATIVE.
6. PROVIDE CALCULATIONS OF BATTERY CAPACITY REQUIRED FOR 15 MINUTES OF ALARM OPERATION FOLLOWING 24 HOURS OF MONITORING.
7. ALL NEW FIRE ALARM SYSTEM CONDUIT, JUNCTION BOXES, TERMINAL CABINETS, CONDUIT SLEEVES, ETC. SHALL BE "RED".

NEW WORK KEY NOTES:

(APPLICABLE THIS SHEET ONLY)

1. INTERCONNECTION BETWEEN EXISTING SIMPLEX 4100 PANEL (TO BE MODIFIED TO SPLICE/TAP BOX) AND NEW FIRE ALARM SYSTEM CABINET. EXACT RACEWAY AND WIRING REQUIREMENTS SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER AND INSTALLATION CONTRACTOR.
2. NEW FIRE ALARM SYSTEM SHALL INCLUDE COMPONENTS TO MONITOR & CONTROL THE FOLLOWING BUILDING EQUIPMENT/SYSTEMS.
   a. FIRE PUMP
   b. EMERGENCY GENERATOR (FUTURE)
   c. FIRE SUPPRESSION SYSTEM SUITABLE FOR HIGH-RISE BUILDING APPLICATION WITH SPRINKLER WATER FLOW SWITCHES AND OS&Y VALVES ZONED PER FLOOR.
3. WIRING FROM FORM C DRY CONTACTS IN NEW FIRE ALARM CONTROL PANEL TO EXISTING BUILDING SECURITY SYSTEM PANEL IN BASEMENT TO MONITOR "FIRE ALARM" AND "TROUBLE" STATUS. CONTACT TONY RUEMENAPP OF ELECTRONIC SECURITY SYSTEMS AT (586)756-8400 FOR EXACT REQUIREMENTS.
4. EXISTING WATERFLOW AND VALVE TAMPER SWITCH SERVING GARAGE AREA SPRINKLER SYSTEM.
5. EXISTING 120V. 20A. BRANCH CIRCUIT FROM "RP-M" (CKT. #14).
6. EXISTING FIRE ALARM SYSTEM COMPONENTS SHALL BE RELOCATED TO NEW FIRE ALARM SYSTEM CONTROL PANEL IN FIRST FLOOR FIRE COMMAND CENTER.
7. CONDUIT SIZE AND WIRING REQUIREMENTS SHALL MEET MANUFACTURER'S RECOMMENDATIONS. COORDINATE CONDUIT ROUTING IN FIELD.
8. ALL CABLING SYSTEMS USED FOR FIRE ALARM SYSTEM WIRING PATHWAYS SHALL BE TWO-HOUR FIRE RATED PER 2010 NFPA ARTICLE 12.4.3 REQUIREMENTS REGARDING LEVEL 3 PATHWAY SURVIVABILITY. (i.e. BE ENCASED IN A MINIMUM OF 2" OF CONCRETE, BE A LISTED ELECTRICAL CIRCUIT PROTECTION SYSTEM WITH A MINIMUM 2-HOUR FIRE RATING, OR BE PROTECTED BY A FIRE-RATED ASSEMBLY LISTED TO ACHIEVE A MINIMUM FIRE RATING OF TWO HOURS).
9. PHONE JACK SYSTEM SHALL PROVIDE TWO-WAY COMMUNICATIONS AT:
   a) EACH STAIR TOWER FLOOR (BOTH INSIDE AND OUTSIDE THE STAIR TOWER)
   b) LARGE MECH./ELECT. EQUIPMENT ROOMS
   c) ELEVATOR LOBBIES
   d) MAIN ELECTRICAL ROOM
   e) FIRE PUMP ROOM
10. PHONE JACKS SHALL BE ZONED PER FLOOR. (TYPICAL, UNLESS OTHERWISE NOTED.)
11. PRIOR TO FIRE ALARM COMMISSIONING, PROVIDE FUNCTIONAL SPRINKLER SYSTEM INSPECTOR'S TEST VALVE LOCATED IN THE FIRE PROTECTION SYSTEM.
12. TO AVOID NUISANCE ALARMS, SMOKE DETECTORS LOCATED IN APARTMENTS WILL NOT INITIATE A BUILDING ALARM WHEN ACTIVATED. APARTMENT SMOKE DETECTORS WILL INITIALLY SEND A TROUBLE SIGNAL TO THE MAIN FACP AND SOUND LOCAL ALARMS WITHIN THE APARTMENT UNIT ONLY.
13. SHUNT-TRIP CIRCUIT BREAKER IN ELEVATOR MACHINE ROOM. (REFER TO PENTHOUSE PLAN AND PARTIAL RISER DIAGRAM ON SHEET E-9)

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	90% OWNER REVIEW	04/24/13
	30% PROGRESS REVIEW	03/28/13

DESIGNER	CDK
DRAWN	DNM
CHECKED	GDC
DEPT MGR	SM
PROJECT MGR	SM

TITLE: MISCELLANEOUS BUILDING UPGRADES

CHATSWORTH TOWER APARTMENTS

630 WILLIAMS MALL
DETROIT, MICHIGAN

FIRE ALARM DIAGRAMS

WSU PROJECT #: 136-195280
WSU BLDG NAME: CHATSWORTH TWR. APTS.
WSU BLDG #: 136

A/E PROJECT NO.
12-4806.00

SHEET NO.
E-15

DSD FILE NAME
12-4806.00-E-15

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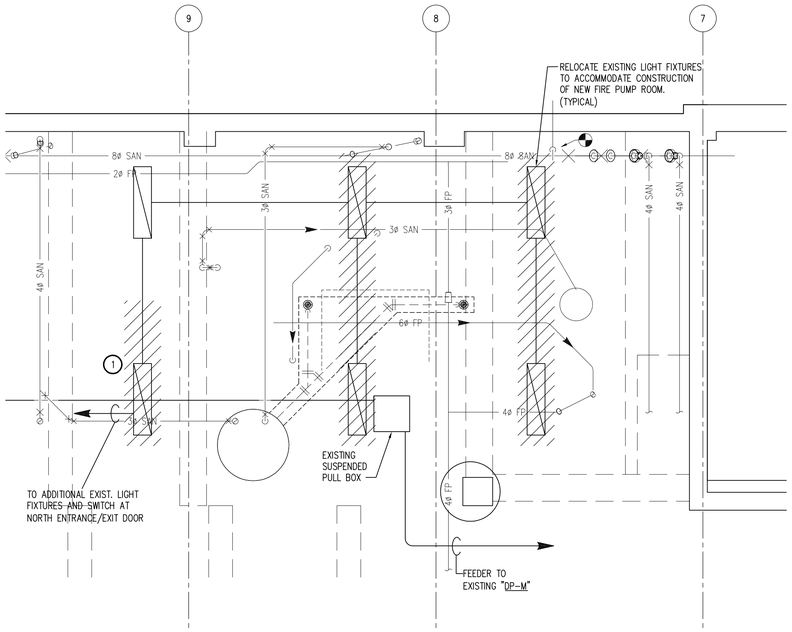


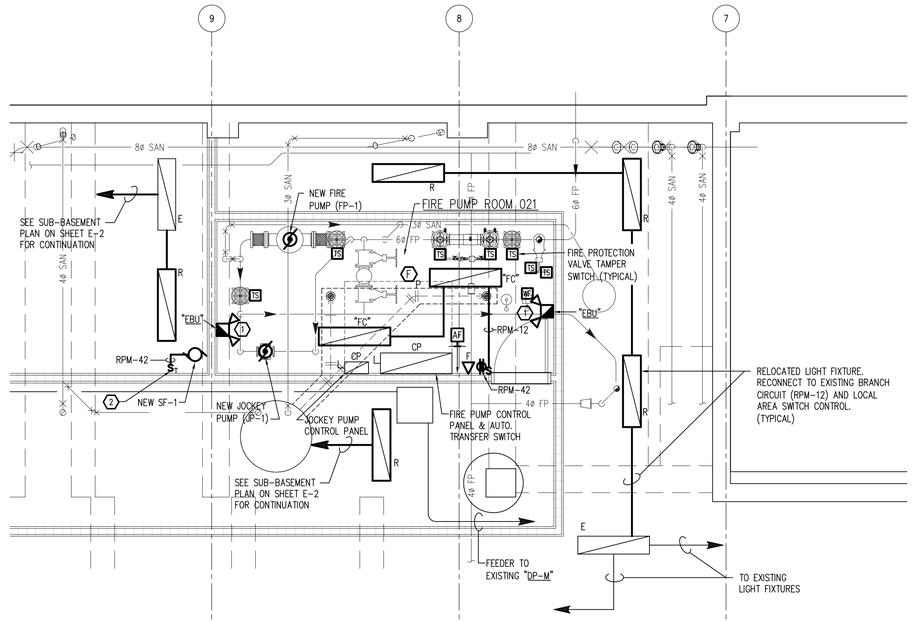
CHATSWORTH
ENLARGED SUB-BASEMENT PLAN – ELECTRICAL DEMOLITION

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

0 2 4 8 16

DEMOLITION KEY NOTES:

1. RELOCATE EXISTING LIGHT FIXTURE TO ACCOMMODATE CONSTRUCTION OF NEW EXIT PASSAGEWAY 022. (REFER TO SUB-BASEMENT PLAN ON SHEET E-2 FOR ADDITIONAL INFORMATION)



CHATSWORTH
ENLARGED SUB-BASEMENT PLAN – ELECTRICAL NEW WORK

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

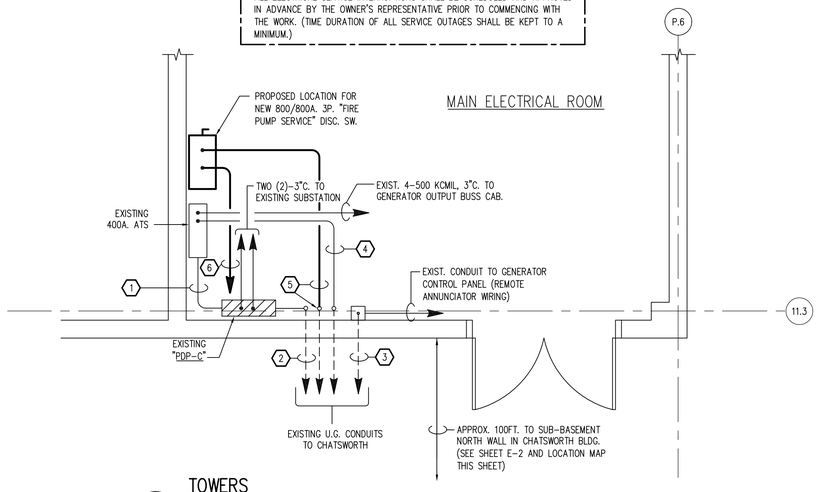
0 2 4 8 16

NEW WORK KEY NOTES:

1. WALL MOUNTED AT 7'-6" A.F.F. EMERGENCY LIGHTING UNITS SHALL BE CONNECTED TO ROOM LIGHTING CIRCUIT AHEAD OF THE LOCAL AREA SWITCH CONTROL.
2. PROVIDE SINGLE PHASE MANUAL MOTOR STARTER SWITCH IN PAD-LOCKABLE NEMA 1 ENCLOSURE.

NOTE:

ALL ELECTRICAL SERVICE INTERRUPTIONS SHALL BE SCHEDULED AND APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH THE WORK. (TIME DURATION OF ALL SERVICE OUTAGES SHALL BE KEPT TO A MINIMUM.)



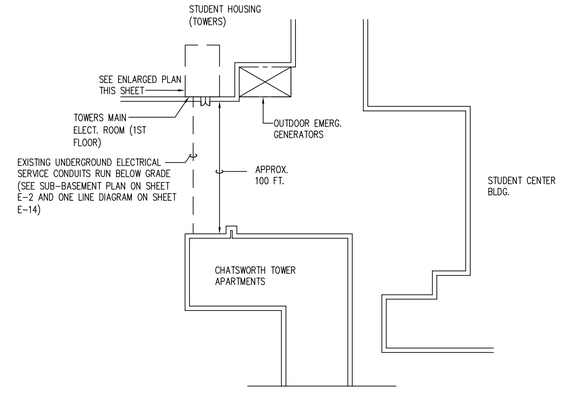
TOWERS
ENLARGED 1ST FLOOR PLAN – ELECTRICAL

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

0 2 4 8 16

TOWERS KEY NOTES:

1. "NORMAL" POWER SOURCE FROM "PDP-C" THROUGH A.T.S. TO CHATSWORTH STEAM PLANT. ("DP-M"). SEE SHEET E-2 & E-14.
2. "NORMAL" POWER SOURCE TO 150KVA, 480V-208Y/120V.3ø.4W. TRANSFORMER IN CHATSWORTH. (SEE SHEET E-2)
3. EXISTING 2"C. WITH ALARM WIRING TO REMOTE GENERATOR ANNUNCIATOR IN BASEMENT OF CHATSWORTH. (SEE SHEET E-2)
4. POWER SOURCE FROM TRANSFER SWITCH TO "DP-M" IN CHATSWORTH. (SEE SHEET E-2)
5. NEW 2"C. W/3#3/0 & 1#3 GRD. TO NEW 200A.3P. NON-FUSED DISCONNECT SWITCH IN CHATSWORTH BASEMENT. (UTILIZE EXISTING 4" SPARE U.G. CONDUIT RUN TO CHATSWORTH).
6. NEW 2"C. W/3#3 &1#3 GRD. TO NEW FEEDER TAP BOX ABOVE EXISTING "PDP-C". (SEE ONE LINE DIAGRAM ON SHEET E-14)



LOCATION MAP
NOT TO SCALE

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DSD FILE NAME
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