



ADDENDUM #2

CITY HALL ELECTRICAL UPGRADE

BID #13/14-003 – PWP# WA-2013-292

BIDS DUE NO LATER THAN: 1:45 PM ON JULY 31, 2013

PUBLIC BID OPENING: 2:00 PM ON JULY 31, 2013

This addendum is to notify all potential proposers of clarifications made to the Bid documents as stated below.

1) RFI Questions and Answers:

a) **Is the main service feeder concrete encased?**

Answer: For the bid assume the main service feeder is concrete encased.

b) **What material should be placed under the concrete footings at the corridor from the main switch gear to the courtyard on the east side of the building? This is where the conduit will be installed under the footing/building.**

Answer: Concrete slurry shall be placed under the footing and up to the bottom of the footing with no air gaps to provide adequate support for the footing. The slurry shall be vibrated in and dirt shall be backfill up to grade on the exterior sides of the footings. Make sure the crawl space remains clear.

c) **What is allowed for sod replacement over all trenches and areas that sod is disturbed?**

Answer: Replace existing grass with either new sod or sod that was cut with a machine from the existing disturbed area. All landscaping and grass areas will be covered under the contractor's one year warranty (1 year warranty is in contract and shown in the bid documents). Within that one year period the sod shall be growing as good as or better than the original sod or it must be replaced. All other landscaping shall be replaced in the same or better condition as it was before the area was disturbed.

d) **Where to locate the sprinkler system storage box located in the basement electrical room adjacent to where the fire sprinkler risers are located.**

Answer: The sprinkler system storage box shall be relocated on the water riser pipe side of the new partition wall that is shown on sheet E3.4. The new location shall be approved by the City of Sparks.

e) **Clarify arc flash test requirements and whether a specific company must be used?** Answer:

Arc Flash calculations will be performed by Dinter Engineering based on shop drawings for equipment submitted by the successful contractor. Dinter will provide Arc Flash values to the contractor. The contractor shall obtain custom printed Arc Flash labels for all new electrical equipment utilizing the values provided and shall attach the labels to the new equipment. No special testing or third party organizations are required.

f) **What are the safety requirements for the crawl space?**

Answer: The contractor, subcontractor, and their employees will be required to wear the appropriate PPE's (Personal Protective Equipment).

- g) **What are the requirements for Fire Alarm and Security cut-overs?**
Answer: The City will require that the contractor provide at least one week notice prior to any cut-over work that will affect the Fire Alarm and/or Security System. No Fire Alarm and/or Security System shall be off line for more than one (1) calendar day. If the cut-over requires more than one day then the contractor shall provide temporary power to those circuits that are affected.
- h) **How is the Generator Set tie in to be completed since the existing conduits are placed within a concrete pad?**
Answer: The contractor shall be responsible for saw cutting, removing, and replacing the concrete pad as needed to install new conduit and feeders to the existing Generator.
- i) **May existing raceways be reused?**
Answer: Unless otherwise noted on the plans or bid specification all raceways shall **NOT** be reused and shall be new.
- j) **Does the existing main switchboard and concrete pad get remove?**
Answer: Yes. The Main switchboard shall be removed by the contractor once all new panels and feeders have been installed to the new Main switchboard. The Contractor shall remove the existing concrete pad and old feeder conductors. Existing abandoned conduits shall be cut off 2' below grade and native soil re-placed to match the existing grade surrounding the location.
- k) **May some of the evergreen trees be removed near the existing transformer in order to gain access to the corridor where the new switch board will be installed?**
Answer: A portion of the trees/shrubs may be trimmed and/or removed on approval of the City with as minimal impact as possible to allow access to the corridor. The Contractor will be responsible for installing new City approved trees/shrubs that match the existing species of evergreen in place of any removed trees/shrubs.
- l) **Will generator fuel need to be replaced after being run during the main service cut-over and any other use of the generator by the contractor during the project?**
Answer: Yes the contractor shall be responsible for all fuel that is used for the project, by the contractor, for any use of the existing generator.
- m) **Can Aluminum feeders be used on any part of the project?**
Answer: No. All feeders shall be copper or as outlined on the plans and/or bid specifications.
- n) **On thru grade transitions – shall rigid elbows or risers be used?**
Answer: Rigid elbows shall be used.
- o) **Please identify the critical systems which require uninterruptable temporary power?**
Answer: Plan sheet E2.1 and E2.2 show which areas of the project are critical and must be phased in prior to other areas of the project. Per the plans the IT department in building #300 is the main critical system. The Contractor shall run the existing back-up generator during the initial service connection to the new main switchboard. The Contractor shall have the new generator receptacle and manual transfer switch installed prior to performing work on building #300. The Contractor shall supply and maintain fuel for a temporary generator that will supply temporary power for panel '1B' during the replacement of panels '1HA' and '1A'.

- p) **Is the Contractor allowed to splice the feeders from the new MSB to the existing MSB in the new pull box?**

Answer: Yes. See the plans for detailed information on this splice.

- q) **Are panel 'CP1' and the associated transformer part of Alternate 1 and 2?**

Answer: No, panel 'CP1' and the associated transformers shall be included in the base bid and part of the new main switchboard gear.

- r) **If Alternates 1 and 2 are not included is a conduit stub out to be provided for the future car charging stations? To where should the stub out for future car Chargers be taken?**

Answer: Conduits from the main switchboard to the pull box in parking lot shall be part of the base bid. The pull box shall be placed directly behind the sidewalk west of the new main switch gear.

- s) **What is the required notification time for work taking place over and/or in occupied work spaces? Will these spaces be fully vacated? What is the capacity of the EOC room?**

Answer: There will be a three week notice required for all phase work and areas. Weekly construction project meetings will be required to discuss personnel that need to be temporarily moved. Any personnel that need to be moved must be given at least three (3) weeks to have time to move all phones, data, and computers. Most areas will be fully vacated at the time of the work, unless during the meetings it is determined personnel can remain, and must be coordinated with the City of Sparks. The capacity of the EOC room will be 8-12. The Contractor is required to move any furniture that may be obscuring outlets, but furniture need only be moved away from the walls to allow adequate work space to perform the work. Pry bars and furniture sliders may make the movement of furniture easier. Care must be taken to put all furniture back in its original place and in its original condition.

- t) **If shift work is required will an owner's rep be on site?**

Answer: Weekend and shift work may be presented during construction project weekly meetings. If work outside normal business hours is required some accommodation may be provided if the Contractor can show that it will help minimize the impacts of the project. All work outside of regular business hours shall be approved in advance as outlined in the bid specifications. The contractor is responsible for any and all additional costs related to work outside normal hours.

- u) **Will the Contractor be allowed to erect construction fencing to keep people out of excavation areas or will these trenches require trench plates for continued access?**

Answer: Temporary fencing will be allowed on approval by the City of Sparks, however trench plates will be required for regular business access from the rod iron gate at the east side of the complex to the main City Hall entry on the east side of the building. Access to the east side of the building must be maintained at all times.

- v) **Do we need to provide new device plates with verified circuit callout labels for existing devices?**

Answer: Yes all existing and new circuit panels shall have new device plates and labels for all circuits.

2) Plan Revisions:

- a) E0.1: Added "Building Code Summary" per plan check comments and added code requirements for the contractor for use during construction.
b) E1.2: Changed "New Panel Schedule" item #2 to read panel '1A'.

- c) E3.1: Deleted second background to clean up plans.
- d) E3.2: Changed panel '2HA' size to match single line diagram. The panel should be a 200 amp panel. Panel '4HA', transformer 'T4', and panel '4A' were corrected to reflect the correct location.
- e) E3.4: Clarified partition wall is to be constructed using sheet metal.

Please note and adjust your bid according to the revisions, additions, deletions, clarifications or modifications as presented on this Addendum #2, which are made a part of this bid. NOTE: To avoid disqualification, this Addendum 2 (and any other addenda) must be signed by an authorized representative of the bidding firm in the space provided and must be submitted with your firm's sealed proposal (not later than 1:45 pm on July 31, 2013). Failure to return this addendum, duly signed, may be cause for rejection of the bid. ALL ADDENDA SHOULD BE SIGNED AND PLACED IN SEQUENTIAL ORDER AND ATTACHED TO THE FRONT OF THE BID PACKAGE, COMPLETE WITH ALL REQUIRED DOCUMENTS.

CONTRACTOR BUSINESS NAME

Dan Marran, C.P.M., CPPO
Contracts and Risk Manager

X _____
Authorized Signature

July 29, 2013

Printed Name of Person Signing

BUILDING CODE SUMMARY

APPLICABLE DESIGN CODES (latest edition as adopted by the City of Sparks)
 INTERNATIONAL BUILDING CODE (2009)
 NATIONAL ELECTRICAL CODE (2005)

ELECTRICAL SYMBOL LIST (NOTE: ALL OF THE SYMBOLS INDICATED BELOW MAY NOT APPEAR ON THIS PROJECT)

- CONDUIT RUN IN OR ON CEILING OR WALL
- - - CONDUIT RUN IN OR UNDER FLOOR OR UNDERGROUND
- P — PRIMARY UTILITY LINE
- S — SECONDARY UTILITY LINE
- o RACEWAY UP
- RACEWAY DOWN
- (X) MOTOR SYMBOL — HORSEPOWER AS INDICATED
- ⊕ 120V DUPLEX CONVENIENCE RECEPTACLE +18" AFF
- ⊕ 120V DOUBLE DUPLEX CONVENIENCE RECEPTACLE +18" AFF
- ⊕ 120V DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT & ISOLATED GROUND; "D" INDICATES "DATA OUTLET", ENGRAVE FACEPLATE "COMPUTER POWER ONLY" +18" AFF
- ⊕ 120V DOUBLE DUPLEX RECEPTACLE W/ DEDICATED CIRCUIT & ISOLATED GROUND +18" AFF
- ⊕ 120V DOUBLE DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
- ⊕ 208Y - 1~ SPECIAL PURPOSE OUTLET (AMPS AS NOTED) +18" AFF
- ⊕ 208Y - 3~ SPECIAL PURPOSE OUTLET (AMPS AS NOTED) +18" AFF
- ⊕ 480V - 1~ SPECIAL PURPOSE OUTLET (AMPS AS NOTED) +18" AFF
- ⊕ 480V - 3~ SPECIAL PURPOSE OUTLET (AMPS AS NOTED) +18" AFF
- 120V DUPLEX CONVENIENCE OUTLET - FLOOR TYPE
- 120V DOUBLE DUPLEX CONVENIENCE OUTLET - FLOOR TYPE
- PM — PLUG MOLD - SURFACE MOUNTED
- ⊕ JUNCTION BOX AS REQUIRED BY NATIONAL ELECTRIC CODE
- ⊕ JUNCTION BOX - FLUSH FLOOR TYPE - AS REQUIRED BY NATIONAL ELECTRIC CODE
- ▷ TELEPHONE OUTLET - WALL MOUNTED +18" AFF
- ⊕ TELEPHONE OUTLET - FLUSH FLOOR TYPE
- ⊕ COMPUTER OUTLET (DATA) +18" AFF
- ▷ INTERCOM OUTLET - WALL MOUNTED +18" AFF
- ▷ PUBLIC PAY TELEPHONE OUTLET +48" AFF
- ▷ WALL PHONE OUTLET +48" AFF
- X ▷ TELEPHONE / DATA COMBINATION WALL MOUNTED
- ⊕ INDUSTRIAL TYPE TELEPHONE BELL
- ELECTRICAL PANELBOARD - SURFACE MOUNTED
- ELECTRICAL PANELBOARD - FLUSH MOUNTED
- SERVICE OR DISTRIBUTION EQUIPMENT
- ⊕ TRANSFORMER
- ⊕ AUXILIARY SYSTEM TERMINAL CABINET
- ⊕ PRECAST CONCRETE PULLBOX (SIZE AS INDICATED)
- (EX) — EXISTING WIRE AND/OR CONDUIT TO BE REMOVED OR ABANDONED
- (EX) — EXISTING WIRE AND/OR CONDUIT TO REMAIN
- EX ▷ EXISTING WIRE AND/OR CONDUIT TO BE REMOVED
- EX ▷ EXISTING WIRE AND/OR CONDUIT TO REMAIN
- ER ▷ "ER" ADJACENT TO DEVICES, LIGHT FIXTURES, ETC. INDICATES EXISTING TO BE REMOVED
- ER ▷ "ER" ADJACENT TO DEVICES, LIGHT FIXTURES, ETC. INDICATES EXISTING TO REMAIN
- ◇ SHEET NOTE
- ◇ LIGHT FIXTURE DESIGNATION & WATTAGE. SEE FIXTURE SCHEDULE
- ◇ MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL & PLUMBING PLANS
- ◇ FEEDER - SIZE AS INDICATED ON SINGLE LINE DIAGRAM
- ◇ DETAIL DESIGNATION - "B" INDICATES DETAIL # ON SHEET E3.1
- * NOTE: ALL MOUNTING HEIGHTS AS INDICATED UNLESS NOTED OTHERWISE. ALL SYMBOLS MAY NOT BE USED ON PROJECTS.

ABBREVIATIONS

AC	ABOVE COUNTER, INSTALL 4" ABOVE SPLASH OR COUNTER OR AT HEIGHT AS INDICATED ON DRAWINGS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
CATV	CABLE TV SYSTEM
CU	COPPER
E	EXISTING
EG	EMPTY CONDUIT WITH PULL WIRE
EDF	ELECTRIC DRINKING FOUNTAIN
ER	EXISTING, TO REMAIN
EX	EXISTING, TO BE REMOVED
FBO	FURNISHED BY OTHER SECTION
GFI	GROUND FAULT INTERRUPTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NIE	NEVADA ENERGY COMPANY
PNL	PANEL
RFI	REQUEST FOR INFORMATION
SPD	SURGE PROTECTION DEVICE
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WP	WEATHERPROOF (NEMA 3R)
XPMR	TRANSFORMER

ELECTRICAL GENERAL NOTES

1. FINISH ALL LABOR, MATERIALS, TOOL ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
2. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES, AS WELL AS THE CITY OF SPARKS (2009) AND CITY OF SPARKS STANDARDS (ECC(2009)).
3. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING, OR NOTED OTHERWISE ON OTHER SHEETS.
4. UTILITIES SHOWN TO BE PROVIDED SHALL NOT BE REMOVED FROM SERVICE AND TO BE REMOVED SHALL BE REINSTALLED OPERATIONAL AND ALL ELECTRICAL PANEL AND EQUIPMENT HAVE BEEN SWITCHED OVER TO NEW MAIN SWITCHBOARD.
5. VERIFY EXACT LOCATION OF ALL RECEPTACLES ABOVE OR ADJACENT TO COUNTERTOPS, MIRRORS, OUTDOOR FIXTURES & BOXES PRIOR TO ROUGH-IN. NO EXTRA COSTS WILL BE ALLOWED FOR FAILURE TO COMPLY.
6. ANY POWER OUTAGE OF ANY CIRCUIT SHALL BE APPROVED BY THE OWNER IN WRITING A MINIMUM OF 5 DAYS PRIOR TO OUTAGE. ALL OUTAGES SHALL BE DONE EXACTLY WHEN DETERMINED BY THE OWNER AND DONE DURING WORKING HOURS. NO SINGLE OUTAGE SHALL REQUIRE MORE THAN 4 HOURS. NO SINGLE OUTAGE SHALL REQUIRE MORE THAN 4 HOURS OF DEDICATED POWER, HEAT & COOLING IF REQUIRED DURING OUTAGE.
7. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES, IT IS MANDATORY THAT THE CONTRACTOR ATTEND SITE VISIT TO DETERMINE EXISTING CONDITIONS PRIOR TO BID.
8. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF MECHANICAL EQUIPMENT VERIFY THE VOLTAGE, PHASE, & LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTRY INVOLVED IN FURNISHING THE ITEM SUCH THAT THE CONTRACTOR SHALL BE ALLOWED FOR FAILURE TO PURCHASED NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
9. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING, DRAINAGE, CONDUIT, TESTS, ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
10. PULL ROPES: PROVIDE 12 GA PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.

GENERAL DEMOLITION NOTES

1. ELECTRICAL OUTLETS AND DEVICES THAT ARE INDICATED BY DASHED LINES SHALL BE REMOVED ENTIRELY, INCLUDING JUNCTION BOXES AND CIRCUITING ASSOCIATED WITH SAID ITEM.
2. THESE PLANS DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. ANY OUTLETS, CIRCUITING AND/OR DEVICES THAT CONFLICT WITH ALL WORK BEING PERFORMED DURING THE COURSE OF THIS PROJECT SHALL BE RELOCATED/REROUTED OR REMOVED ENTIRELY AS DICTATED BY ENGINEER.
3. ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. EQUIPMENT SELECTED SHALL BE TURNED OVER TO OWNER ON PROJECT SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM PROJECT SITE.
4. IT IS MANDATORY THAT THE CONTRACTOR VISIT SITE AND VERIFY EXISTING CONDITIONS THAT MIGHT AFFECT HIS OR HER WORK. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BID.
5. DEMOLITION AND VAPORIZATION OF EXISTING DISTRIBUTION SYSTEMS SHALL BE PERFORMED AS FOLLOWS:
 - A. EXISTING WIRING TO BE REMOVED SHALL BE REMOVED BACK TO ITS SOURCE. CONDUITS MAY BE ABANDONED IN PLACE PROVIDED THEY DO NOT INTERFERE WITH ANY NEW WORK. REMOVE ALL WIRING FROM ABANDONED RACEWAYS.
 - B. IT IS THE INTENT OF THESE DOCUMENTS TO REQUIRE REUSE OF EXISTING CONDUITS AND BACKBOXES FEEDING EXISTING CONVENIENCE RECEPTACLES REFER TO SHEETS E-1.1 AND E-1.2 FOR CONVENIENCE RECEPTACLE WORK.
 - C. REMOVAL OF EXISTING ELECTRICAL DISTRIBUTION SYSTEM SHALL INCLUDE EQUIPMENT, ASSOCIATED WIRING, INCLUDING (BUT NOT LIMITED TO) CONDUCTORS, CABLES, EXPOSED CONDUIT, SURFACE RACEWAYS, BOXES, FITTINGS, ETC. (BACK TO EQUIPMENT SOURCE).
 - D. CONTINUATION OF SERVICE, MAINTAIN CONTINUITY OF EXISTING CIRCUITS, TEST LIGHTING, RECEPTACLES AND ALL ELECTRICALLY POWERED EQUIPMENT IN SURROUNDING AREAS TO DETERMINE IF ANY EQUIPMENT TO REMAIN HAS BEEN DE-ENERGIZED. CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS AND EQUIPMENT TO BE MAINTAINING IN ORDER TO REACTIVATE ANY SUCH EQUIPMENT.

ELECTRICAL GENERAL NOTES (CONT.)

11. APPEARANCE AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND STANDARDS.
12. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
13. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
14. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERATIONS SHALL BE MADE TO MATERIALS IN A TIMELY FASHION FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
15. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL BE REVIEWED BY THE ENGINEER AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
16. TYPE AC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SAME TYPE OF TERMINALS NOT ALLOWED.
17. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATIC ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT TIME OF RECORD DRAWINGS.
18. ALL WIRE SHALL BE COPPER.
19. ALL UNDERGROUND CONDUIT SHALL BE WRAPPED RIGID STEEL WITH THREADED COUPLINGS AND CONNECTORS, AND/ OR PVC CONDUIT. 40 ALL ELBOWS AND EXPOSED RISERS SHALL BE RIGID STEEL CONDUIT.
20. PROVIDE ALL PANEL, BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.
21. SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.

GENERAL DEMOLITION NOTES (CONT.)

6. WORK SHALL BE PHASED IN ACCORDANCE WITH PHASING PLANS INDICATED IN OTHER SECTIONS OF THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SYSTEMS IN AREAS NOT DESIGNATED FOR DEMOLITION. IN A PARTICULAR IDENTIFIED PHASE SHALL REMAIN FULLY FUNCTIONAL. CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS NEEDED TO ASSURE SYSTEM OPERATIONS.
7. EXISTING MECHANICAL POWER CIRCUITRY SHALL BE REUSED AND RECONNECTED FOR EXISTING MECHANICAL EQUIPMENT.
8. ALL EXISTING EXIT SIGNS, SPEAKERS, FIRE ALARM DEVICES, CAMERAS, ETC., ON EXISTING CEILING TO BE REMOVED SHALL BE STORED DURING DEMOLITION & THEN REINSTALLED IN SAME LOCATION AS BEFORE, TESTED & PUT BACK IN SERVICE.

1

SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES

SCALE: NTS



385 Gentry Way
 Reno, NV 89502
 Ph: 775.826.4044
 Fax: 775.826.4190
 Web: dinter.com



7/26/13	PLAN CHECK/OWNER COMMENTS				
No.	REVISIONS/SUBMISSIONS				

DESIGNED BY:	PKH
DRAWN BY:	GLR
CHECKED BY:	PKH/KCH
DATE:	06/19/13

**CITY OF SPARKS
 CITY HALL ELECTRICAL
 UPGRADE
 431 PRATER WAY
 SPARKS, NEVADA 89432**

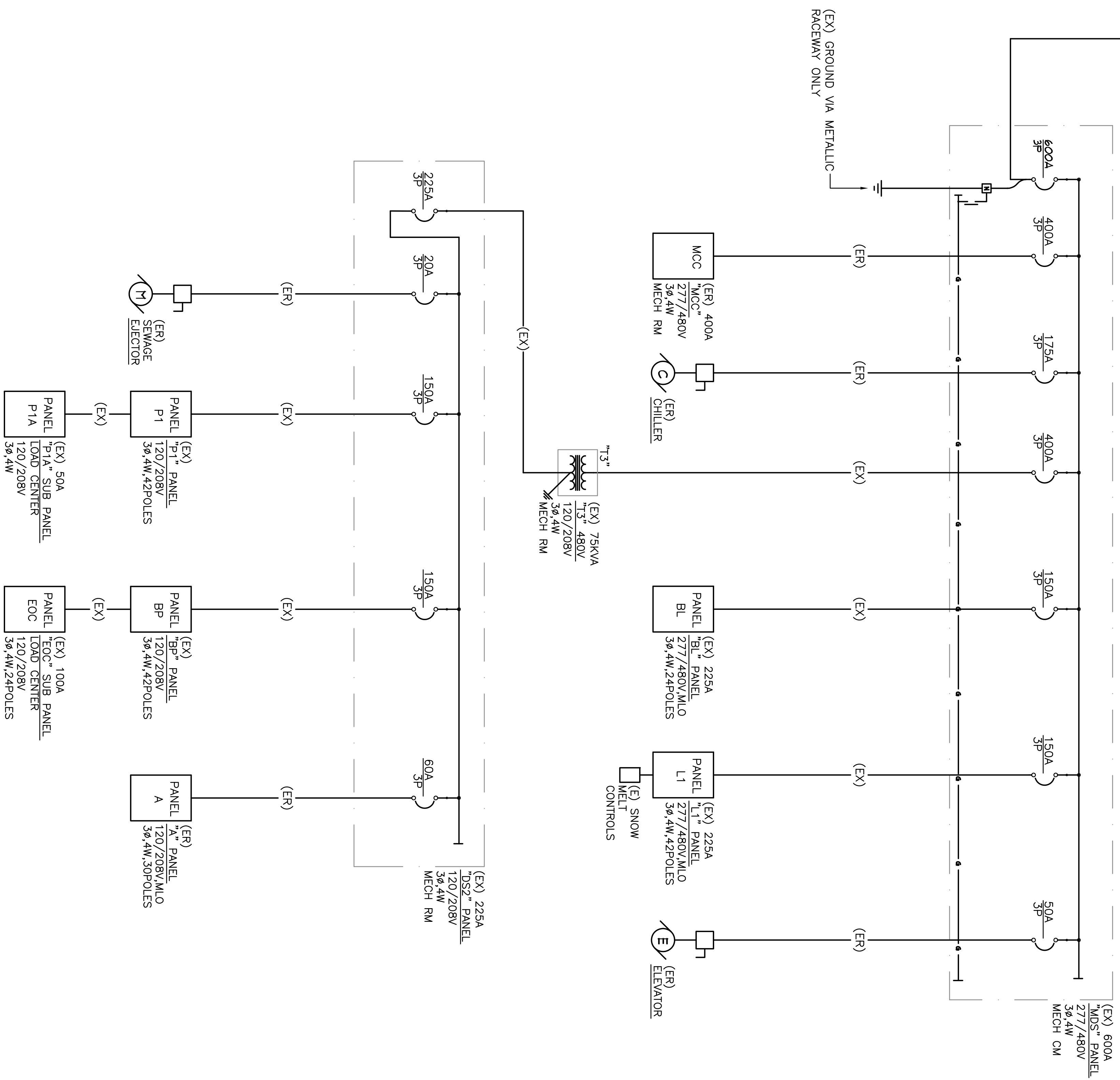
ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES

E0.1

SHEET 2 OF 24

BID DOCUMENTS
 07-05-2013

SEE SHEET E1.1 FOR CONTINUATION.



NEW PANELS SCHEDULE

NO.	ITEM	DESCRIPTION	NOTE
1	PANEL "1HA"	277/480V, 200A, MLO, 36AIC, 3PH, 4W, 42POLES, NEMA-1	2
2	PANEL "1A"	120/208V, 200A, MCB, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
3	PANEL "2HA"	277/480V, 200A, MLO, 24AIC, 3PH, 4W, 42POLES, NEMA-1	2
4	PANEL "2A"	120/208V, 200A, MCB, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
5	PANEL "4HA"	277/480V, 400A, MLO, 24AIC, 3PH, 4W, 42POLES, NEMA-1	2
6	PANEL "4A"	120/208V, 200A, MCB, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
7	PANEL "5HA"	277/480V, 200A, MLO, 18AIC, 3PH, 4W, 42POLES, NEMA-1	2
8	PANEL "5A"	120/208V, 100A, MCB, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
9	PANEL "4LB"	120/208V, 200A, MCB, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
10	PANEL "BL"	277/480V, 225A, MLO, 24AIC, 3PH, 4W, 42POLES, NEMA-1	2
11	PANEL "L1"	277/480V, 225A, MLO, 24AIC, 3PH, 4W, 42POLES, NEMA-1	2
12	PANEL "P1"	120/205V, 150A, MLO, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
13	PANEL "BP"	120/208V, 150A, MLO, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
14	PANEL "P1A"	120/208V, 50A, MLO, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
15	PANEL "EOC"	120/208V, 100A, MLO, 12AIC, 3PH, 4W, 42POLES, NEMA-1	1, 2
16	PANEL "MDS"	277/480V, 600A, MCB, 36AIC, 3PH, 4W, 42POLES, NEMA-1	2
17	PANEL "D2S2"	120/208V, 225A, MCB, 12AIC, 3PH, 4W, 42POLES, NEMA-1	2
18	PANEL "L1P1"	277/480V, 50A, PART OF "MSB", 36AIC, 3PH, 4W, 12POLES	2
19	PANEL "CP1"	277/480V, 100A, PART OF "MSB", 36AIC, 3PH, 4W, 12POLES	2

NOTES:

- 1 PANELBOARD SHALL BE NARROW STYLE PANELBOARD.
- 2 ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND RATINGS OF EXISTING BREAKERS, PROVIDE NEW MATCHING BREAKERS AND RECONNECT ALL EXISTING CIRCUITS. ALL CONVENIENCE OUTLET CIRCUITS TO BE "RINGED OUT" AND MAPPED. ELECTRICAL CONTRACTOR SHALL RECONFIGURED CONVENIENCE OUTLET CIRCUITS AS DESCRIBED IN THESE PLANS. REMAINING UNUSED SPACE SHALL BE SPLIT 50% FOR 20A-1POLE SPARE CIRCUIT BREAKERS AND 50% BUSSED BREAKER SPACES.



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PLAN CHECK/OWNER COMMENTS	7/26/13
REVISIONS/SUBMISSIONS	DATE
No.	

CITY OF SPARKS
CITY HALL ELECTRICAL
UPGRADE
431 PRATER WAY
SPARKS, NEVADA 89432

DESIGNED BY:	PKH
DRAWN BY:	GLR
CHECKED BY:	PKH/KCH
DATE:	06/19/13

ELECTRICAL
EXISTING SINGLE LINE

1 EXISTING ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NTS

BID DOCUMENTS
07-05-2013

E1.2

SHEET 4 OF 24



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J-4400



No.	REVISIONS/SUBMISSIONS	DATE
7/26/13	PLAN CHECK/OWNER COMMENTS	

CITY OF SPARKS
CITY HALL ELECTRICAL
UPGRADE
431 PRATER WAY
SPARKS, NEVADA 89432

DESIGNED BY:	PKH
DRAWN BY:	GLR
CHECKED BY:	PKH/KCH
DATE:	06/19/13

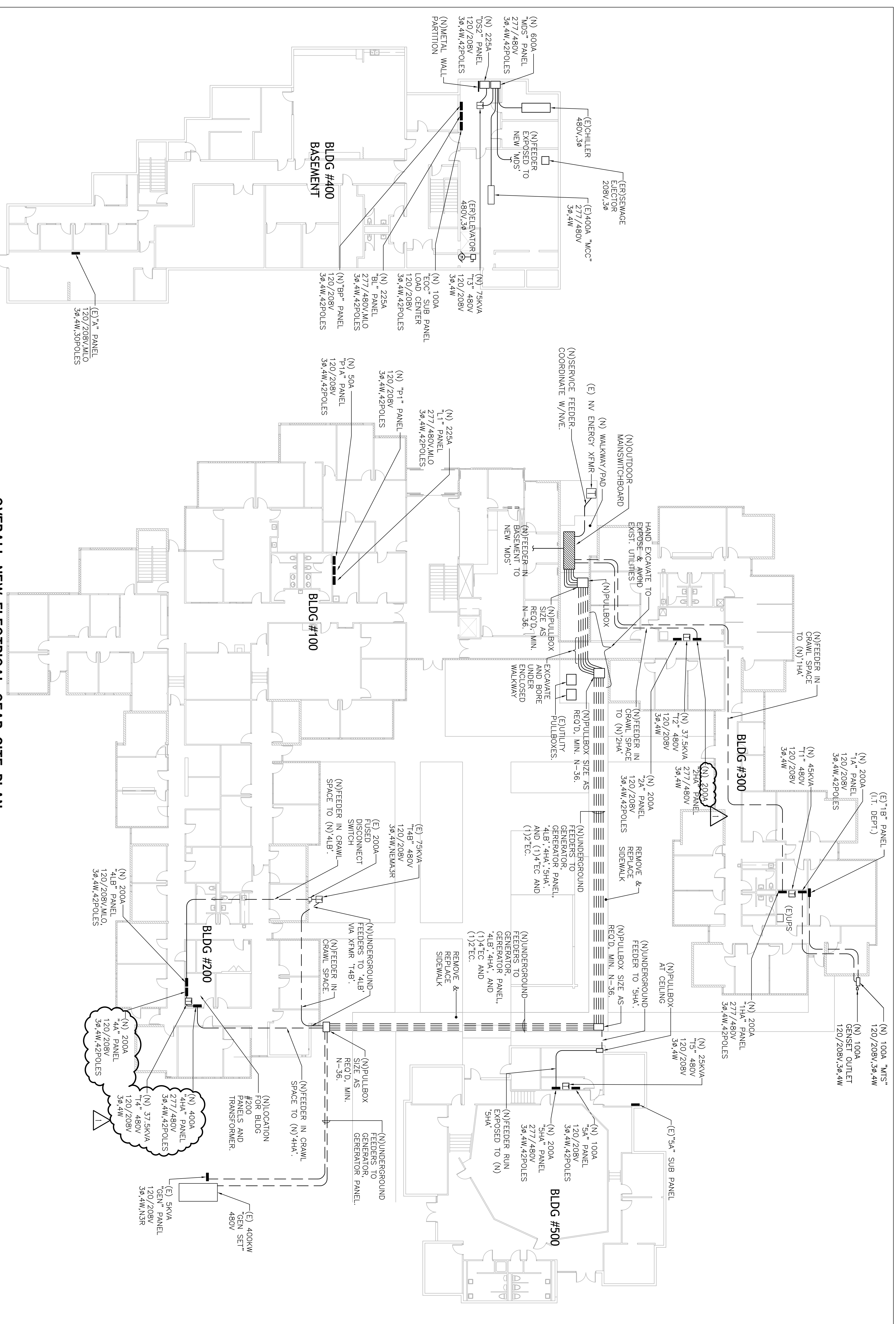
ELECTRICAL
NEW
ELECTRICAL SITE PLAN

BID DOCUMENTS
07-05-2013

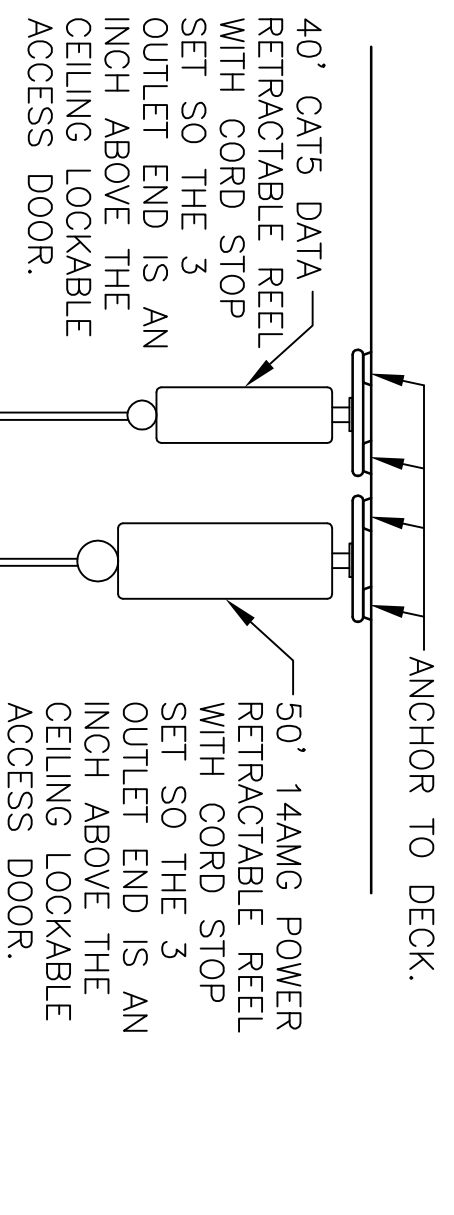
OVERALL NEW ELECTRICAL GEAR SITE PLAN
SEE INDIVIDUAL PHASING PLANS FOR DETAILS

1

SCALE: NTS

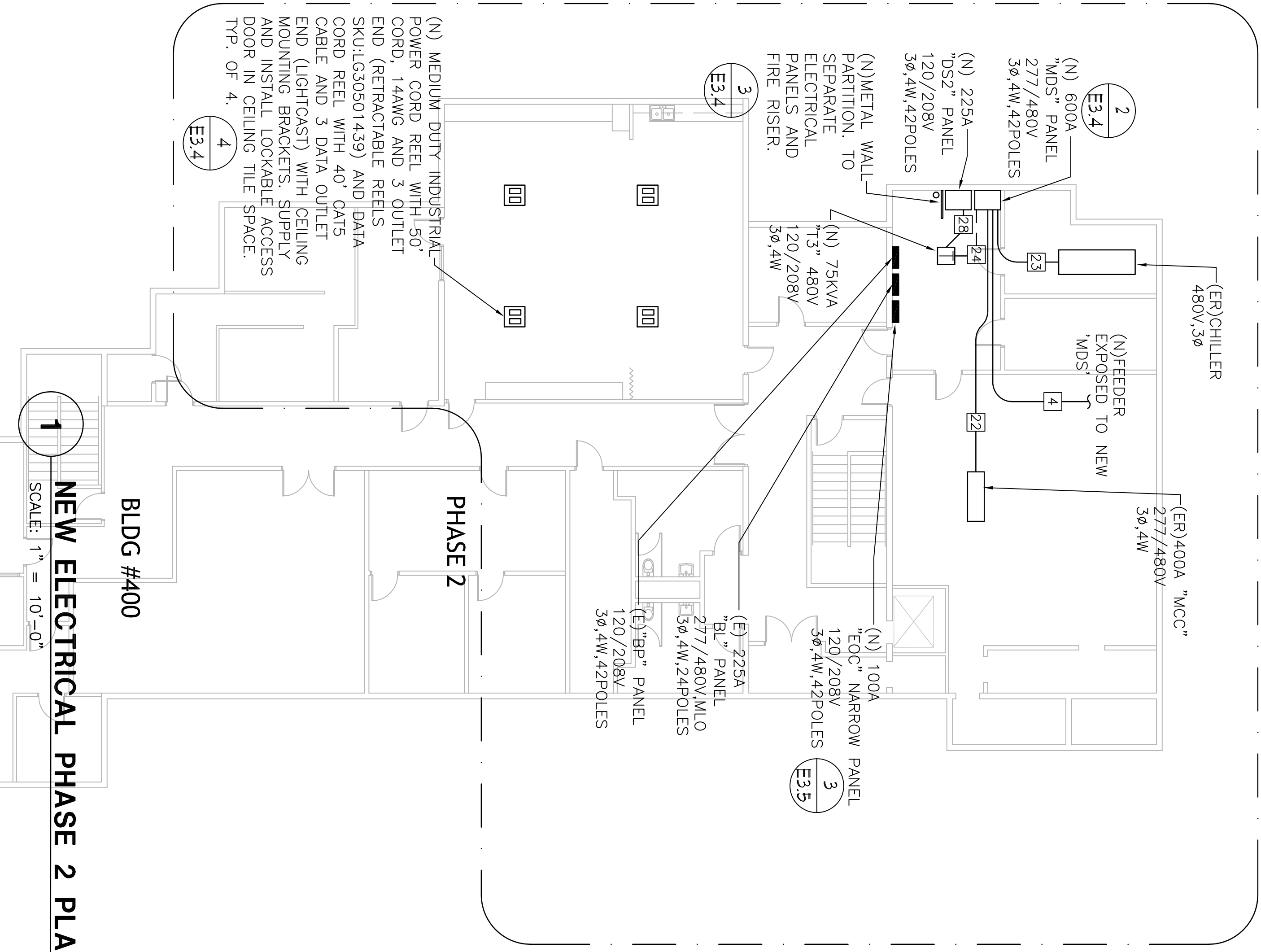


BLDG #400 BASEMENT

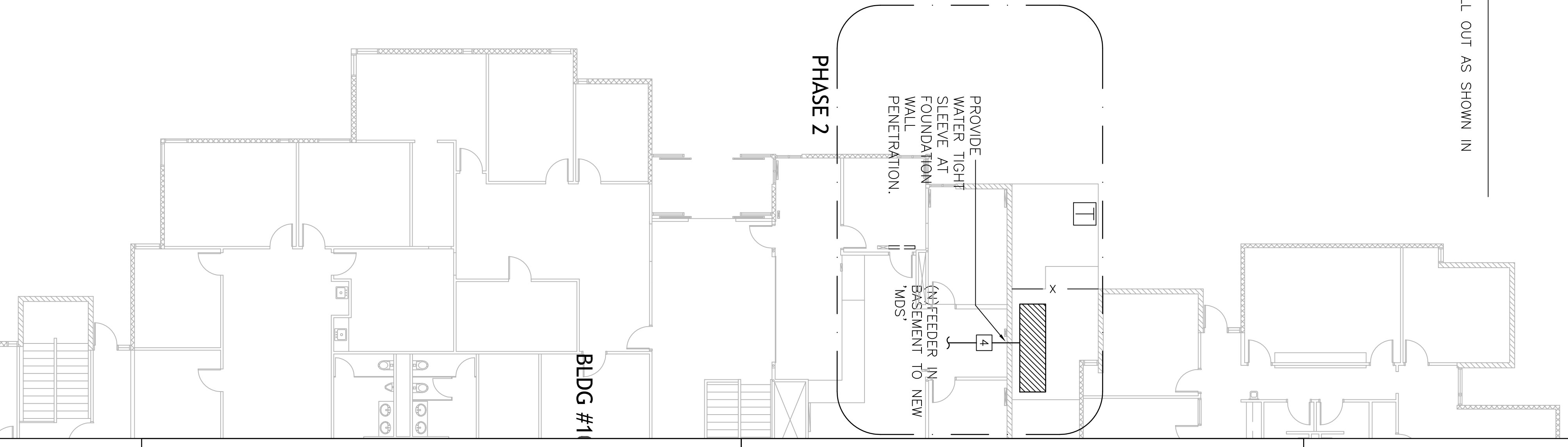


4 ECC CEILING REELS DETAIL
SCALE: NTS

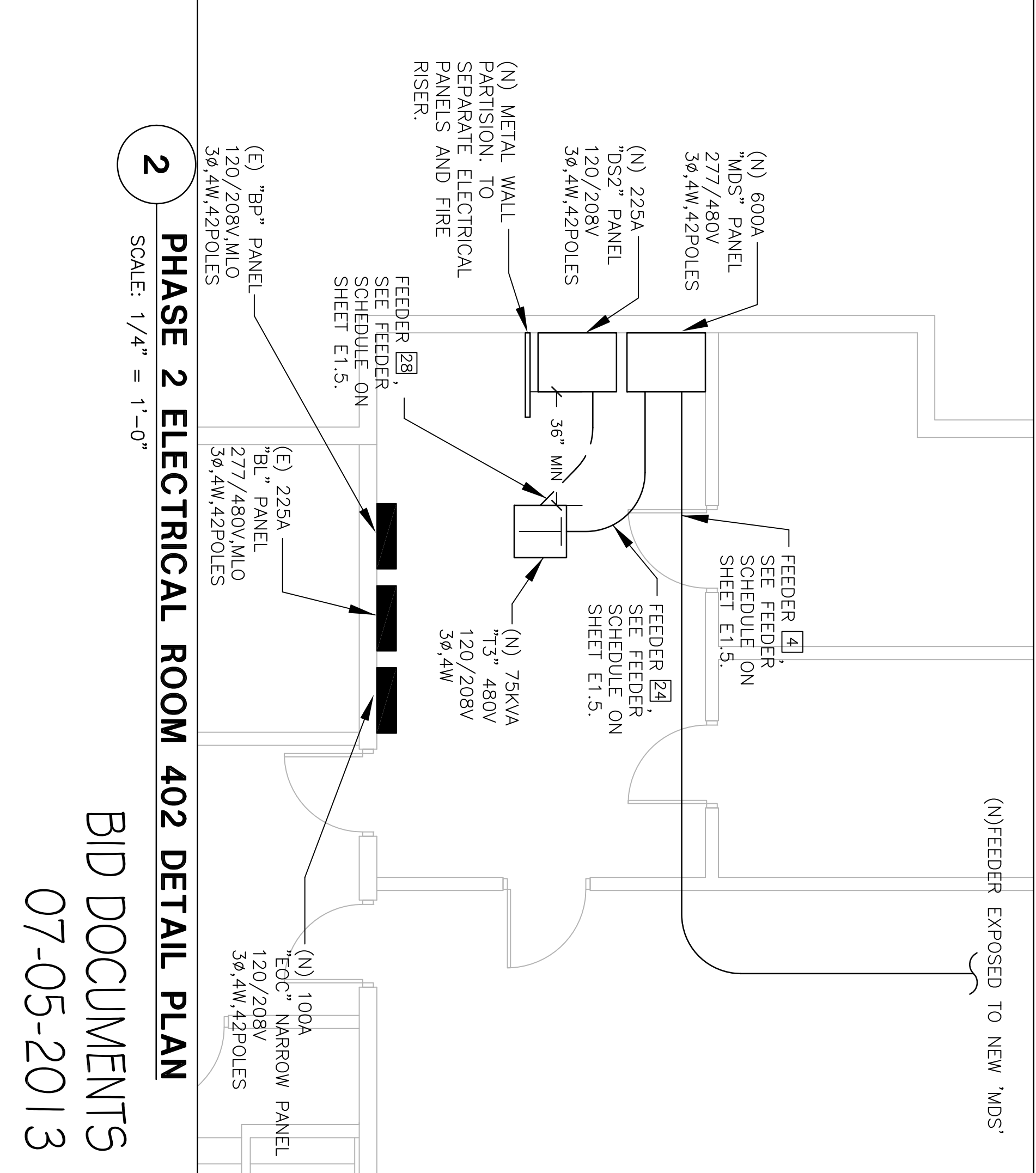
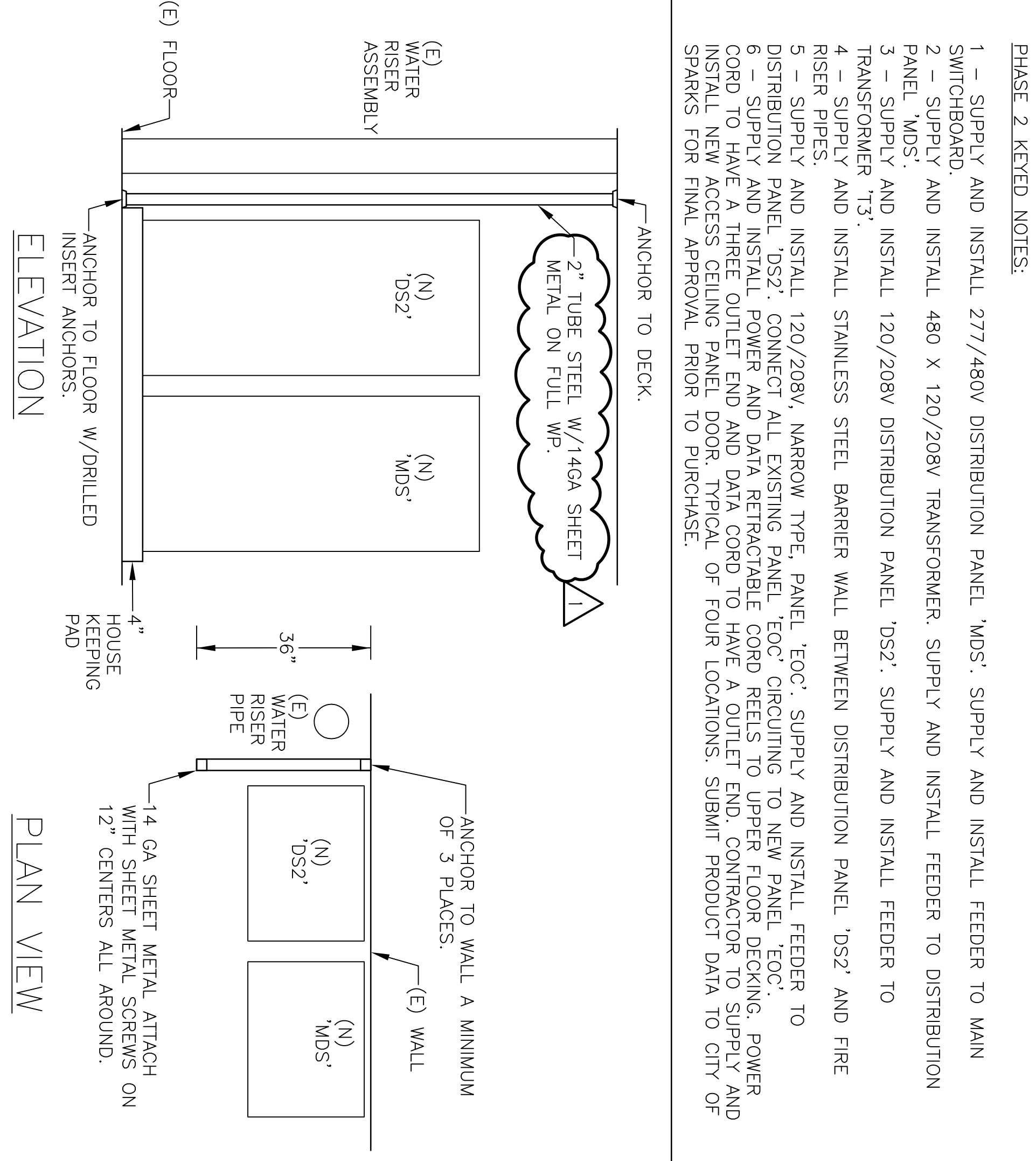
- NOTES:
1. SYMBOL [E] REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.



1 NEW ELECTRICAL PHASE 2 PLAN
SCALE: 1" = 10'-0"



3 PARTITION WALL DETAIL
SCALE: NTS



2 PHASE 2 ELECTRICAL ROOM 402 DETAIL PLAN
SCALE: 1/4" = 1'-0"

BID DOCUMENTS
07-05-2013

 385 Gentry Way Reno, NV 89502 Ph: 775.826.4044 Fax: 775.826.4190 Web: dinter.com J-4400	REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA No. 08380 KELLER C. HACKBUSCH ELECTRICAL	PLAN CHECK/OWNER COMMENTS 7/26/13	REVISIONS/SUBMISSIONS No.
	DESIGNED BY: PKH DRAWN BY: GLR CHECKED BY: PKH/KCH DATE: 06/19/13	CITY OF SPARKS CITY HALL ELECTRICAL UPGRADE 431 PRATER WAY SPARKS, NEVADA 89432	ELECTRICAL PHASE 2 PLAN E3.4