

ADDENDUM # 01

date: 08.05.2024
project: Highland Highschool
Addition/Remodel
by: Michael Rigby
subject: Addendum 01

This Addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents. This Addendum shall govern and take precedence. ***Bidders Must acknowledge this addendum on their bids.***

Proposers are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Except as described below, the original bid documents remain unchanged. The bid documents are modified and/or clarified, As follows:

Items:

AD01.1 – See attached electrical Items

AD01.2 – Section 00 0031 – BID PACKAGE INDEX FOR BUILDING DEMOLITION

- Added Section

Michael Rigby 08.05.2024

ISSUED BY Date
Architect



Nielson Engineering, Inc.

An Innovative Engineering Firm
Consulting Engineers
Electrical · Mechanical
Information Systems

Date: August 1, 2024

To: Michael Rigby
Kent Craven
Addendum #1

RE: Highland High School Demolition

Electrical

E-001 Demolition Plan - Electrical

1. Deleted feeder between panel "O" and existing maintenance shed. The intent is to reuse and protect the existing feeder between the building and maintenance shed.
2. Revised owner provided transformer to be 100 KVA single phase and changed panel "O" to be single phase 400 amp. Reuse the existing breaker, conduit, and feeder is possible (see notes).
3. Relocate existing 45 KVA transformer and disconnect from west wall of electrical room to southeast corner of room. Build steel frame to support relocated transformer above 100 KVA transformer if required due to space constraints. Install new feeder from transformer to "MDP" and from transformer to existing panel "CB2".
4. Refeed existing panel "BP1". Conduit route to follow other conduits in the trench and crawl space. Then conduit will rise up onto roof and route across roof to panel "BP1" in existing building. Conduit on roof shall be RMC. Coordinate route with owner.
5. Demolish electrical equipment located on west wall of electrical room per keynote 22.

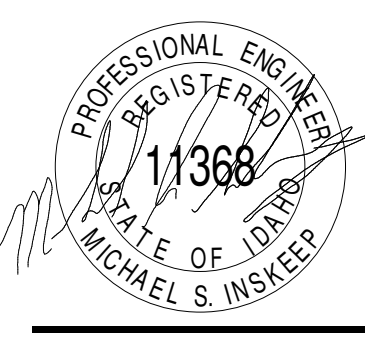
Sincerely,

A handwritten signature in blue ink, appearing to read 'Michael S. Inskeep', is written over a horizontal blue line.

Michael S. Inskeep
Nielson Engineering, Inc.

MARK	DATE	DESCRIPTION

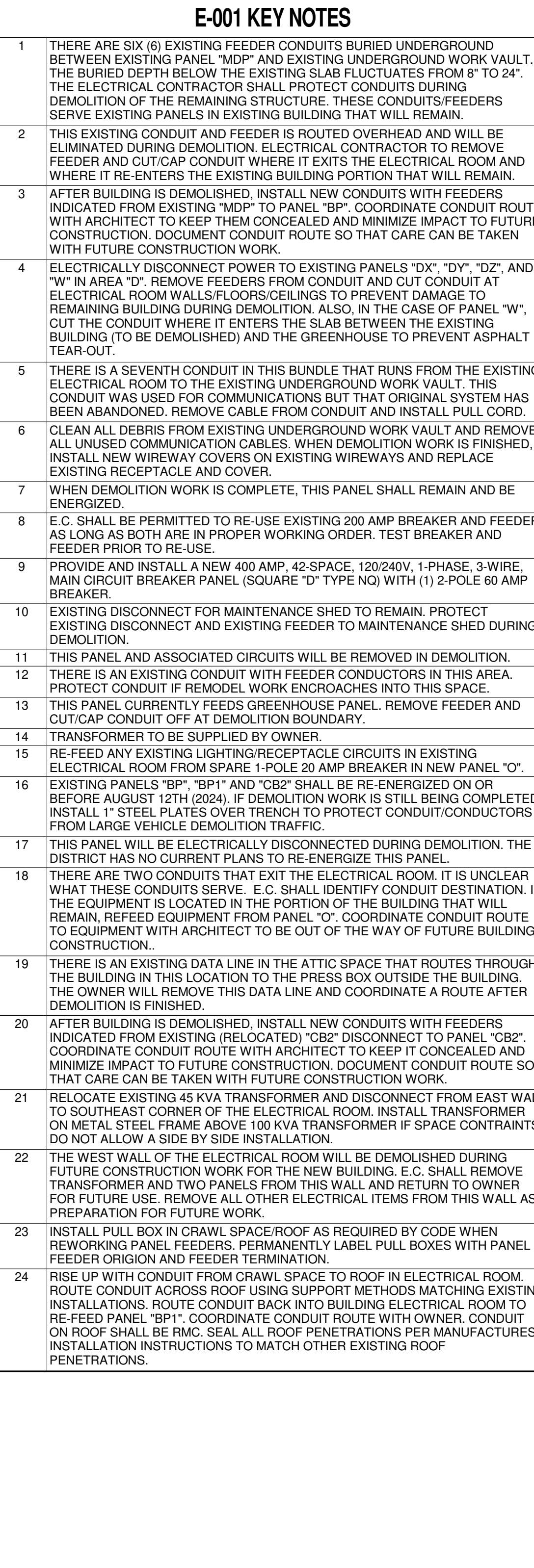
PROJECT #: 2312
DRAWN BY: MSI
CHECKED BY: MSI
ISSUED: 07.09.2024



DEMOLITION PLAN - ELECTRICAL

SCHEDULE-CONDUIT CONDUCTORS		GENERAL NOTES						
TYPE	AMP (1)	CONDUIT SIZE (2)	INSULATION (3)	EQUIV. (4)	BERRY (5)	END. (6)	SIZE (7)	SIZE (8)
(12)	20	3/4 (E)	2	12	THN/THWN	12	8	8
(12)	30	1 (E)	2	10	10			
(12)	40	1 1/4 (E)	2	10				
(12)	50	1 1/2 (E)	2	10				
(12)	65	1 3/4 (E)	2	10				
(12)	75	2 (E)	2	10				
(12)	90	2 1/4 (E)	2	10				
(12)	100	2 1/2 (E)	2	10				
(12)	125	3 (E)	2	10				
(12)	150	3 1/2 (E)	2	10				
(12)	175	4 (E)	2	10				
(12)	200	4 1/2 (E)	2	10				
(12)	225	5 (E)	2	10				
(12)	250	5 1/2 (E)	2	10				
(12)	300	6 1/2 (E)	2	10				
(12)	350	7 1/2 (E)	2	10				
(12)	400	8 1/2 (E)	2	10				
(12)	450	9 1/2 (E)	2	10				
(12)	500	10 1/2 (E)	2	10				
(12)	600	12 1/2 (E)	2	10				
(12)	800	16 (E)	2	10				
(12)	1200	24 (E)	2	10				
(12)	2000	36 (E)	2	10				

1. THERE ARE SIX (6) EXISTING FEEDER CONDUITS BURIED UNDERGROUND BETWEEN EXISTING PANEL "MDP" AND EXISTING UNDERGROUND WORK VAULT. THE BURIED DEPTH BELOW THE EXISTING SLAB FLUCTUATES FROM 8" TO 24". THE ELECTRICAL CONTRACTOR SHALL PROTECT CONDUITS DURING DEMOLITION OF THE REMAINING STRUCTURE. THESE CONDUITS/FEEDERS SERVE EXISTING PANELS IN EXISTING BUILDING THAT WILL REMAIN.
2. THIS EXISTING CONDUIT AND FEEDER IS ROUTED OVERHEAD AND WILL BE ELIMINATED DURING DEMOLITION. ELECTRICAL CONTRACTOR TO REMOVE FEEDER AND CUT/CAP CONDUIT WHERE IT EXITS THE ELECTRICAL ROOM AND WHERE IT RE-ENTERS THE EXISTING BUILDING PORTION THAT WILL REMAIN.
3. AFTER BUILDING IS DEMOLISHED, INSTALL NEW CONDUITS WITH FEEDERS INDICATED FROM EXISTING "MDP" TO PANEL "BP". COORDINATE CONDUIT ROUTE WITH ARCHITECT TO KEEP THEM CONCEALED AND MINIMIZE IMPACT TO FUTURE CONSTRUCTION. DOCUMENT CONDUIT ROUTE SO THAT CARE CAN BE TAKEN WITH FUTURE CONSTRUCTION WORK.
4. ELECTRICALLY DISCONNECT POWER TO EXISTING PANELS "DX", "DY", "DZ", AND "W" IN AREA "D". REMOVE FEEDERS FROM CONDUIT AND CUT CONDUIT AT ELECTRICAL ROOM WALL/FLOOR/CEILING TO PREVENT DAMAGE TO REMAINING BUILDING DURING DEMOLITION. ALSO, IN THE CASE OF PANEL "W", CUT THE CONDUIT WHERE IT ENTERS THE SLAB BETWEEN THE EXISTING BUILDING (TO BE DEMOLISHED) AND THE GREENHOUSE TO PREVENT ASPHALT TEAR-OUT.
5. THERE IS A SEVENTH CONDUIT IN THIS BUNDLE THAT RUNS FROM THE EXISTING ELECTRICAL ROOM TO THE EXISTING UNDERGROUND WORK VAULT. THIS CONDUIT WAS USED FOR COMMUNICATIONS BUT THAT ORIGINAL SYSTEM HAS BEEN ABANDONED. REMOVE CABLE FROM CONDUIT AND INSTALL PULL CORD.
6. CLEAN ALL DEBRIS FROM EXISTING UNDERGROUND WORK VAULT AND REMOVE ALL UNUSED COMMUNICATION CABLES. WHEN DEMOLITION WORK IS FINISHED, INSTALL NEW WIREWAY COVERS ON EXISTING WIREWAYS AND REPLACE EXISTING RECTANGULAR COVERS.
7. WHEN DEMOLITION WORK IS COMPLETE, THIS PANEL SHALL REMAIN AND BE ENERGIZED.
8. E.C. SHALL BE PERMITTED TO RE-USE EXISTING 200 AMP BREAKER AND FEEDER AS LONG AS BOTH ARE IN PROPER WORKING ORDER. TEST BREAKER AND FEEDER PRIOR TO RE-USE.
9. PROVIDE AND INSTALL A NEW 400 AMP, 42-SQ. INCH, 120/240V, 1-PHASE, 3-WIRE, MAIN CIRCUIT BREAKER PANEL (SQUARE "D" TYPE NQ) WITH (1) 2-POLE 60 AMP BREAKER.
10. EXISTING DISCONNECT FOR MAINTENANCE SHED TO REMAIN. PROTECT EXISTING DISCONNECT AND EXISTING FEEDER TO MAINTENANCE SHED DURING DEMOLITION.
11. THIS PANEL AND ASSOCIATED CIRCUITS WILL BE REMOVED IN DEMOLITION.
12. THERE IS AN EXISTING CONDUIT WITH FEEDER CONDUCTORS IN THIS AREA. PROTECT CONDUIT IF REMODEL WORK ENCOMPASSES INTO THIS SPACE.
13. THIS PANEL CURRENTLY FEEDS GREENHOUSE PANEL. REMOVE FEEDER AND CUT/CAP CONDUIT OFF AT DEMOLITION BOUNDARY.
14. TRANSFORMER TO BE SUPPLIED BY OWNER.
15. RE-FEED ANY EXISTING LIGHTING/RECEPTACLE CIRCUITS IN EXISTING ELECTRICAL ROOM FROM SPARE 1-POLE 20 AMP BREAKER IN NEW PANEL "O".
16. EXISTING PANELS "BP", "BPI" AND "CB2" SHALL BE RE-ENERGIZED ON OR BEFORE AUGUST 12TH (2024). IF DEMOLITION WORK IS STILL BEING COMPLETED, INSTALL 1" STEEL PLATES OVER TRENCH TO PROTECT CONDUIT CONDUCTORS FROM LARGE VEHICLE DEMOLITION TRAFFIC.
17. THIS PANEL WILL BE ELECTRICALLY DISCONNECTED DURING DEMOLITION. THE DISTRICT HAS NO CURRENT PLANS TO RE-ENERGIZE THIS PANEL.
18. THERE ARE TWO CONDUITS THAT EXIT THE ELECTRICAL ROOM. IT IS UNCLEAR WHAT THESE CONDUITS SERVE. E.C. SHALL IDENTIFY CONDUIT DESTINATION. IF THE EQUIPMENT IS LOCATED IN THE PORTION OF THE BUILDING THAT WILL REMAIN, REFEED EQUIPMENT FROM PANEL "O". COORDINATE CONDUIT ROUTE TO EQUIPMENT WITH ARCHITECT TO BE OUT OF THE WAY OF FUTURE BUILDING CONSTRUCTION.
19. THERE IS AN EXISTING DATA LINE IN THE ATTIC SPACE THAT ROUTES THROUGH THE BUILDING IN THIS LOCATION TO THE PRESS BOX OUTSIDE THE BUILDING. THE OWNER WILL REMOVE THIS DATA LINE AND COORDINATE A ROUTE AFTER DEMOLITION IS FINISHED.
20. AFTER BUILDING IS DEMOLISHED, INSTALL NEW CONDUITS WITH FEEDERS INDICATED FROM EXISTING (RELOCATED) "CB2" DISCONNECT TO PANEL "CB2". COORDINATE CONDUIT ROUTE WITH ARCHITECT TO KEEP IT CONCEALED AND MINIMIZE IMPACT TO FUTURE CONSTRUCTION. DOCUMENT CONDUIT ROUTE SO THAT CARE CAN BE TAKEN WITH FUTURE CONSTRUCTION WORK.
21. RELOCATE EXISTING 45 KVA TRANSFORMER AND DISCONNECT FROM EAST WALL TO SOUTHEAST CORNER OF THE ELECTRICAL ROOM. INSTALL TRANSFORMER ON METAL STEEL FRAME ABOVE 100 KVA TRANSFORMER IF SPACE CONSTRAINTS DO NOT ALLOW A SIDE BY SIDE INSTALLATION.
22. THE WEST WALL OF THE ELECTRICAL ROOM WILL BE DEMOLISHED DURING FUTURE CONSTRUCTION WORK FOR THE NEW BUILDING. E.C. SHALL REMOVE TRANSFORMER AND TWO PANELS FROM THIS WALL AND RETURN TO OWNER FOR FUTURE USE. REMOVE ALL OTHER ELECTRICAL ITEMS FROM THIS WALL AS PREPARATION FOR FUTURE WORK.
23. INSTALL PULL BOX IN CRAWL SPACE/ROOF AS REQUIRED BY CODE WHEN REWORKING PANEL FEEDERS. PERMANENTLY LABEL PULL BOXES WITH PANEL FEEDER ORIGIN AND FEEDER TERMINATION.
24. RISE UP WITH CONDUIT FROM CRAWL SPACE TO ROOF IN ELECTRICAL ROOM. ROUTE CONDUIT ACROSS ROOF USING SUPPORT METHODS MATCHING EXISTING INSTALLATIONS. ROUTE CONDUIT BACK INTO BUILDING ELECTRICAL ROOM TO RE-FEED PANEL "BP". COORDINATE CONDUIT ROUTE WITH OWNER. CONDUIT ON ROOF SHALL BE RMC. SEAL ALL ROOF PENETRATIONS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS TO MATCH OTHER EXISTING ROOF PENETRATIONS.



2 POWER RISER - DEMOLITION

1/8" = 1'-0"

Branch Panel: O
Location: _____
Supply From: SURFACE
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/240 Single
Phases: 1
Wires: 3

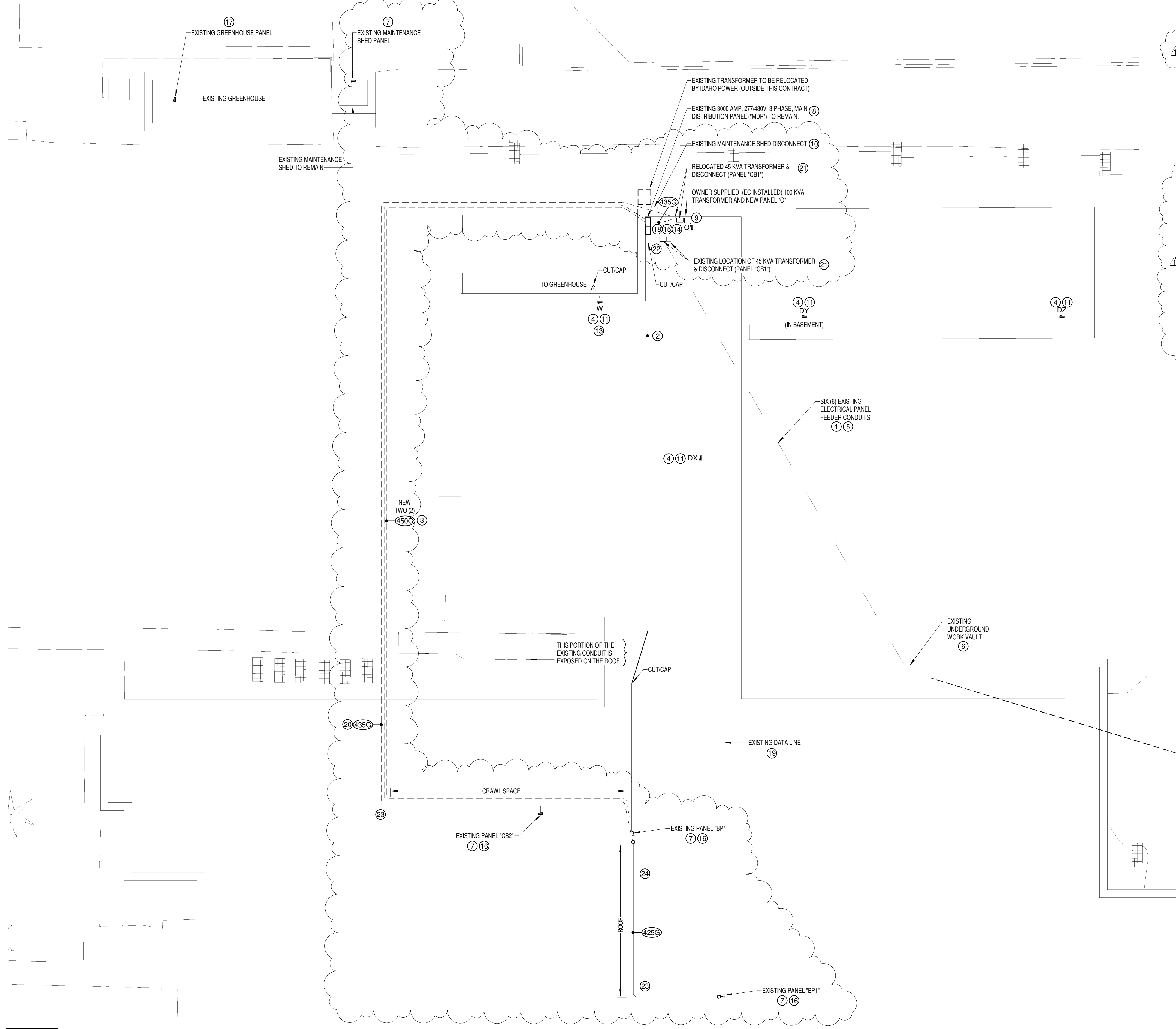
A.I.C. Rating: 22,000 AMPS
Main Type: M.C.B.
Main Rating: 225 A
MCB Rating: 225 A

CKT	Circuit Description	Wire	Amp	P	A	B	P	Amp	Wire	Circuit Description	CKT
O-1	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-2
O-3	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-4
O-5	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-6
O-7	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-8
O-9	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-10
O-11	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-12
O-13	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-14
O-15	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-16
O-17	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-18
O-19	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-20
O-21	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-22
O-23	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-24
O-25	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-26
O-27	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-28
O-29	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-30
O-31	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-32
O-33	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-34
O-35	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-36
O-37	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-38
O-39	SPARE	20 A	1	0	0	0	1	20 A		SPARE	O-40
O-41	SPARE	60 A	2	0	0	0	1	20 A		SPARE	O-42

Load: 0 W 0 VA
Amps: 0 A 0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 kW
				Total Est. Demand: 0 kW
				Total Conn. Current: 0 A
				Est. Demand Current: 0 A

Notes:



SECTION 00 00 31 – BID PACKAGE INDEX for Building Demolition (Bid Release #1)

Table of Contents

BP-01 Asbestos Abatement
BP-02 Plumbing Demo/Gas Piping
BP-03 Electrical Demo/Panel Reroute
BP-04 Building Demolition/Pad Prep

Bid packages must be bid in their entirety. Partial bids will not be accepted.

BP-01 Asbestos Abatement

Demolition, Removal, and Disposal per Contract Documents

Including all drawings and the following specifications:

Contract Documents:

Division 00 – Procurement and Contracting Requirements

Division 01 – General Requirements

Applicable Spec Sections:

024110 – Asbestos Containing Work Practices and Disposal

Asbestos Inspection Report (1 page map from Northern dated 9-30-1988)

Work to Include, but not limited to:

Complete removal of ACM material identified on the Northern Asbestos Inspection Map; Demolition necessary to accomplish abatement scope; Containment, Clean up, & Disposal of own work.

BP-02 Plumbing Demo/Gas Piping

Supply and Installation per Contract Documents

Including all drawings and the following specifications:

Contract Documents:

Division 00 – Procurement and Contracting Requirements

Division 01 – General Requirements

Applicable Spec Sections:

Division 22 – Plumbing

Work to Include, but not limited to the supply and installation of:

All work identified on P-001 & P-002; Gas Piping complete; Waterline shut-off and capping; Permits and Fees; Seismic bracing per code requirements; all roofing blocking and supports; Core drilling, saw cutting, grouting, caulking and fire Stopping for own penetrations; Demolition & disposal of existing gas piping system no longer in service; Start Up Reports; Clean-Up of Own work;

BP-03 Electrical Demo/Power Reroute

Supply and Installation per Contract Documents
Including all drawings and the following specifications:

Contract Documents:

Division 00 – Procurement and Contracting Requirements

Division 01 – General Requirements

Applicable Spec Sections:

Division 26 – Electrical

Work to Include, but not limited to the supply and installation of:

All work identified on E-001; Electrical Permits and Fees; Demolition & Disposal of all electrical components as needed for demolition work and rework; Excavation and backfill of own work; Temporary construction power as needed; Core drilling, saw cutting, grouting, caulking and fire caulking for own penetrations; Seismic bracing per code requirements; Layout of own work; Clean-Up of Own Work.

BP-04 Building Demo/Pad Prep

Supply and Installation per Contract Documents
Including all drawings and the following specifications:

Contract Documents:

Division 00 – Procurement and Contracting Requirements

Division 01 – General Requirements

Applicable Spec Sections:

020100 – Geotechnical Investigation

024116 – Structure Demolition

Lead Paint Report (1 page map showing location of walls with lead paint)

Work to Include, but not limited to:

All work identified on ASD-101, 102, 103 & 201; Demolition Permits and Fees; Demolition & Disposal of all D-Wing Remaining Building and Building Components; Demolition of Greenhouse and Greenhouse Components; traffic control at entrance; the following Storm Water Protection Items – Inlet protection for existing inlets around perimeter of demo area, track off pad, and dust control; Private subsurface investigation for Utilities both known and unknown; **Decommissioning, Removal, & Disposal of RTUs; Concrete & CMU saw-cutting for slabs & walls as needed for demolition work; demo asphalt and grub site 20' past new building footprint; Building Pad Preparation and Leveling to be 20' past designed new building footprint** for Winter; Utility capping as shown on drawings.

Items to be by others: Temporary Construction Fencing; New Truss Joists and Roofing of Existing Electrical Room; Roofing required per note 16 on ASD-101.

END OF SECTION 00 00 31