

ALSEA SCHOOL DISTRICT

POWER SERVICE UPGRADE PHASE 1a.2

100% AGENCY & BID SET: 1-15-2022

SHEET SCHEDULE:

A0.0 Cover Sheet

ARCHITECTURAL

A0.2 Phasing Site Plan - All Bond Projects
A0.4 Architectural Site Plan - Overlay

ELECTRICAL

E0.0 Electrical Symbols & Sheet Index
E1.0D Electrical Site Plan - Demolition
E1.0E Electrical Site Plan - New
E2.0D Electrical Plan - Demolition
E3.0 Power Distribution Plan - Demolition
E3.1 Power Distribution Plan - New
E3.2 One Line Diagram - Demolition
E3.3 One Line Diagram - New
E3.4 Electrical Schedules

PLEASE REFER TO THE ASSOCIATED PROJECT
MANUAL FOR THIS PROJECT FOR MORE DETAILS &
INFORMATION.



301 SOUTH 3rd STREET
ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT 1a.2: POWER SERVICE UPGRADE



CB Construction
1202 Adams Avenue
LaGrande, OR 97850



STRAIGHTLINE ARCHITECTURE

4521 South Cloverdale Road
Suite 102 - Boise, Idaho 83709
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Date: 1-15-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH): 1a.2

ISSUE: 1-15-22

BID & PERMIT ISSUE

DRAWING NO.

A0.0

Cover sheet

OWNER:



Address:

ALSEA SCHOOL DISTRICT
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

CONSTRUCTION MANAGER (CM/GC):



Address:

CB Construction
1202 Adams Avenue
LaGrande, Oregon 97850

Contact:

Derek Howard
Office: 541.786.5315
Email: dhoward@cbconst.us

ARCHITECT:



Address:

STRAIGHTLINE Architects
4521 South Cloverdale Road
Suite 102
Boise, Idaho 83709

Contact:

Scott Marshall, AIA - NCARB, Principal
Office: 208.991.0855
Email: Scott@Straightline.biz

ELECTRICAL ENGINEER:



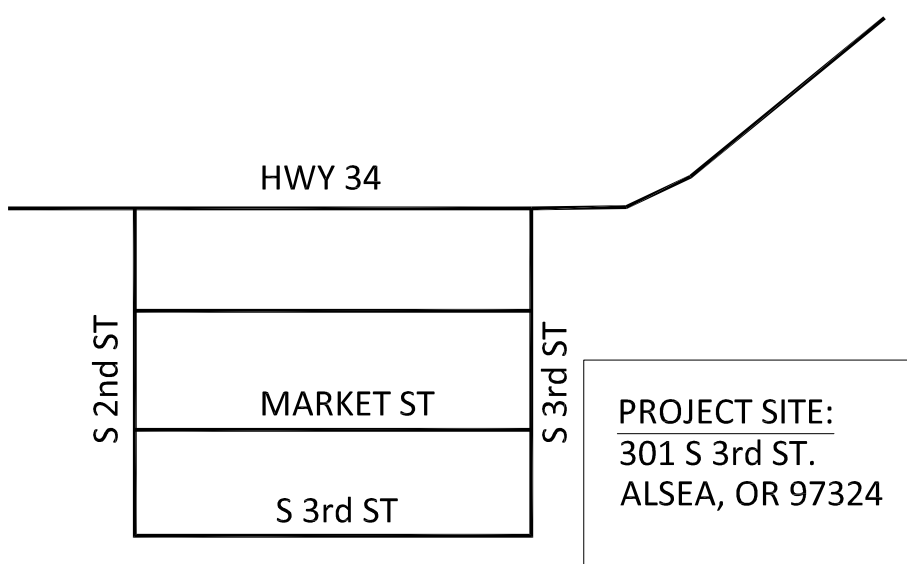
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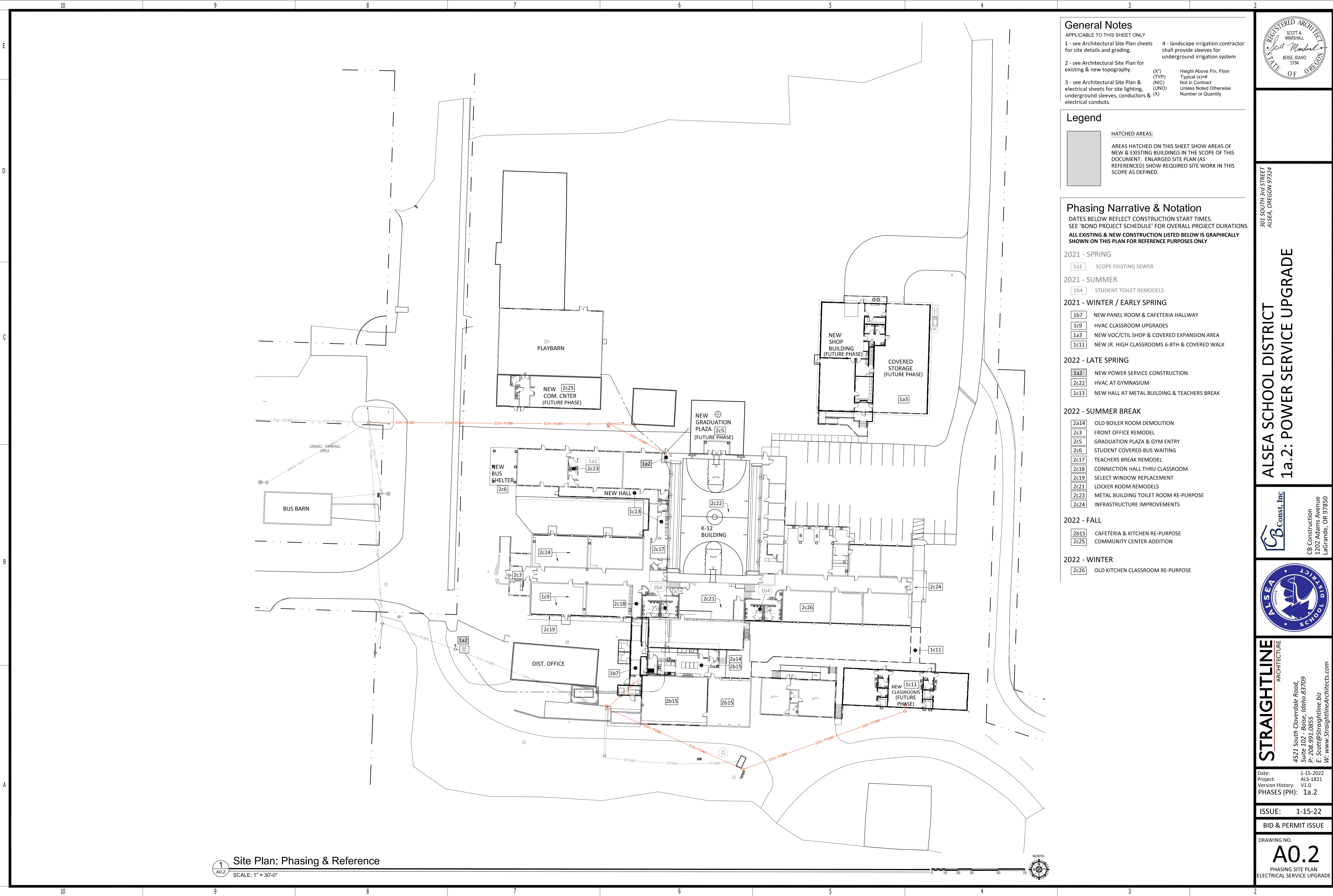
E2CO
800 S. Industry Way, Suite 350
Meridian, Idaho 83642

Contact:

Jon Van Stone, PE, Principal
Office: 208-378-4450
Email: jvanstone@e2co.com

VICINITY MAP:





General Notes

APPLICABLE TO THIS SHEET ONLY

1 - see Architectural Site Plan sheets for site details and grading.

2 - see Architectural Site Plan for existing & new topography.

3 - see Architectural Site Plan & electrical sheets for site lighting, underground sleeves, conductors & electrical conduits.

4 - landscape irrigation contractor shall provide sleeves for underground irrigation system

(X*) Height Above Fin. Floor
(TYP) Typical (x)=#
(NIC) Not in Contract
(UNO) Unless Noted Otherwise
(X) Number or Quantity

Legend

HATCHED AREAS:

AREAS HATCHED ON THIS SHEET SHOW AREAS OF NEW & EXISTING BUILDINGS IN THE SCOPE OF THIS DOCUMENT. ENLARGED SITE PLAN (AS REFERENCED) SHOW REQUIRED SITE WORK IN THIS SCOPE AS DEFINED.

Phasing Narrative & Notation

DATES BELOW REFLECT CONSTRUCTION START TIMES. SEE 'BOND PROJECT SCHEDULE' FOR OVERALL PROJECT DURATIONS
ALL EXISTING & NEW CONSTRUCTION LISTED BELOW IS GRAPHICALLY SHOWN ON THIS PLAN FOR REFERENCE PURPOSES ONLY

2021 - SPRING

1a1 SCOPE EXISTING SEWER

2021 - SUMMER

1b4 STUDENT TOILET REMODELS

2021 - WINTER / EARLY SPRING

1b7 NEW PANEL ROOM & CAFETERIA HALLWAY
1c9 HVAC CLASSROOM UPGRADES
1a3 NEW VOC/CTIL SHOP & COVERED EXPANSION AREA
1c11 NEW JR. HIGH CLASSROOMS 6-8TH & COVERED WALK

2022 - LATE SPRING

1a2 NEW POWER SERVICE CONSTRUCTION
2c22 HVAC AT GYMNASIUM
1c13 NEW HALL AT METAL BUILDING & TEACHERS BREAK

2022 - SUMMER BREAK

2a14 OLD BOILER ROOM DEMOLITION
2c3 FRONT OFFICE REMODEL
2c5 GRADUATION PLAZA & GYM ENTRY
2c6 STUDENT COVERED BUS WAITING
2c17 TEACHERS BREAK REMODEL
2c18 CONNECTION HALL THRU CLASSROOM
2c19 SELECT WINDOW REPLACEMENT
2c21 LOCKER ROOM REMODELS
2c23 METAL BUILDING TOILET ROOM RE-PURPOSE
2c24 INFRASTRUCTURE IMPROVEMENTS

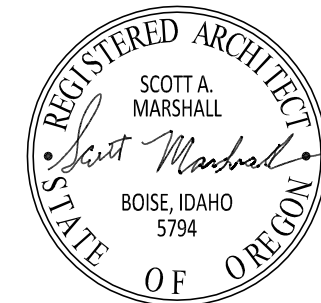
2022 - FALL

2b15 CAFETERIA & KITCHEN RE-PURPOSE
2c25 COMMUNITY CENTER ADDITION

2022 - WINTER

2c26 OLD KITCHEN CLASSROOM RE-PURPOSE

1 Site Plan: Phasing & Reference
A0.2 SCALE: 1" = 30'-0"



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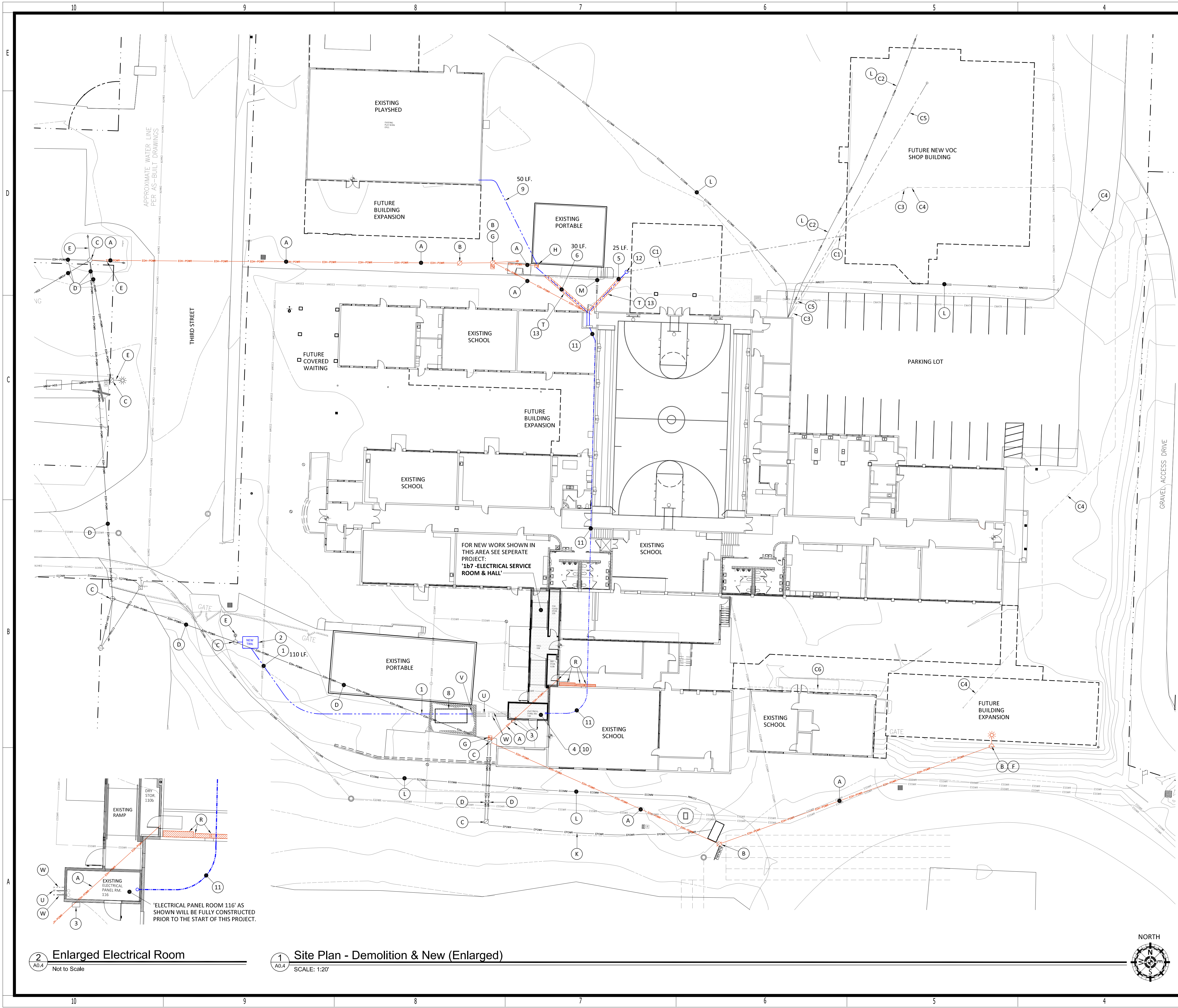
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PHASING SITE PLAN
ELECTRICAL SERVICE UPGRADE



General Notes

APPLICABLE TO THIS SHEET ONLY
1 - Coordinate work with Local Power Company 'Consumers Power Inc.' Contact: Heather Harris-Woffendin 541-929-8619. heatherh@cpi.coop

(X*) Height Above Fin, Floor
(TYP) Typical (x) #
(N/C) Not in Contract
(UNO) Unless Noted Otherwise
(X) Number or Quantity

Phasing Narrative & Notation

- 1a 2021 - (PHASE 1a)
2. DESIGN & ESTABLISH NEW POWER SERVICE

Keyed Notes

Applicable to this Sheet only
NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.

EXISTING & DEMOLITION POWER

- (A) (D) EXISTING OVERHEAD POWER LINES - REMOVAL OF LINES BY UTILITY
- (B) (D) UTILITY POLE - REMOVAL OF POLE BY UTILITY.
- (C) (E) UTILITY POLE - POLE TO REMAIN, DO NOT DISTURB
- (D) OVERHEAD POWER LINES - TO REMAIN, DO NOT DISTURB
- (E) STREET LIGHT - POLE MOUNTED, TO REMAIN, DO NOT DISTURB
- (F) (D) STREET LIGHT - POLE MOUNTED, DEMOLISH WITH POLE BY UTILITY
- (G) (D) POWER METER - POLE MOUNTED, DEMOLISH WITH POLE BY UTILITY
- (H) (D) POWER METER - PORTABLE BUILDING MOUNTED, REMOVE METER AND READY FOR NEW ELECTRICAL UPGRADE. SEE ELECTRICAL SHEETS.
- (J) (D) OVERHEAD BUILDING POWER - REMOVE WEATHER HEAD TO WEATHER HEAD, BY CONTRACTOR
- (K) (E) UNDERGROUND POWER - IN CONDUIT, DO NOT DISTURB
- (L) (E) UNDERGROUND COMMUNICATIONS - IN CONDUIT, DO NOT DISTURB
- (M) (E) OVERHEAD COMMUNICATIONS - DO NOT DISTURB, RELOCATION WILL OCCUR IN FUTURE PHASED WORK
- (R) (D) EXISTING SERVICE POWER PANELS - DEMOLISH PANELS AND ROOF TOP WEATHER HEAD ONCE NEW PANELS ARE IN PLACE AND ARE READY TO BE EMERGIZED. REPAIR ROOF PENETRATION, SEE ELECTRICAL SHEETS
- (T) (D) CUT PAVEMENT - DEMOLISH SAWCUT PAVEMENT FOR NEW UNDERGROUND CONDUIT.
- (U) (E) EMPTY CONDUITS - FOR POWER SERVICE CONDUCTORS. (6)-4" SEE ELECTRICAL SHEETS. (MULTIPLE CONDUITS WERE INSTALLED DURING PHASE 1b.7 PANEL ROOM & HALLWAY)
- (V) CONDUIT INTERFACE POINTS - CONNECT NEW SERVICE CONDUIT TO EXISTING EMPTY CONDUITS AT LOCATIONS SHOWN.
- (W) (E) EMPTY CONDUITS - FOR BACK UP GENERATOR, (6)-4" & (3)-1", SEE ELECTRICAL SHEETS. (MULTIPLE CONDUITS WERE INSTALLED DURING PHASE 1b.7 PANEL ROOM & HALLWAY)

NEW & RENNOVATED POWER

- (1) (N) SERVICE UNDERGROUND POWER CONDUITS - SERVICE LINE, SEE ELECTRICAL PLANS & UTILITY ENGINEERING. COORDINATE CONDUCTOR INSTALL WITH UTILITY COMPANY.
- (2) (N) POWER TRANSFORMER - PAD MOUNTED, SEE ELECTRICAL PLANS & UTILITY ENGINEERING. COORDINATE CONDUCTOR INSTALL WITH UTILITY COMPANY.
- (3) (N) ELECTRICAL METER - EXTERIOR MOUNTED ON NEW ELECTRICAL ROOM. COORDINATE PLACEMENT AND INSTALL WITH UTILITY COMPANY.
- (4) ELECTRICAL ROOM - (NEWLY CONSTRUCTED IN PHASE 1b.7) LOCATE MAIN SWITCHGEAR, PANELS, ETC. IN THIS AREA, SEE ELECTRICAL SHEETS.
- (5) (N) UNDERGROUND POWER CONDUIT - FROM GYMNASIUM TO FUTURE VOC BUILDING (PHASE 1a.3) STOP AND MARK CONDUIT AS INDICATED. SEE ELECTRICAL SHEETS.
- (6) (N) UNDERGROUND POWER CONDUIT & CONDUCTORS - FROM BUILDING TO EXISTING METER BOX (METER REMOVED THIS PROJECT) ON PORTABLE CLASSROOM
- (7) EXISTING UNDERGROUND CONDUIT TO EMERGENCY GENERATOR LOCATION - CONDUIT INSTALLED DURING PHASE 1b.7 PANEL ROOM & HALLWAY
- (8) (N) EMERGENCY GENERATOR - SEE ELECTRICAL SHEETS. GENERATOR PAD SHALL BE IN THE ELECTRICAL CONTRACTORS CONTRACT AND SHALL BE COORDINATED WITH GENERATOR PROVIDED.
- (9) (N) UNDERGROUND POWER CONDUIT & CONDUCTORS - FROM EXISTING METER BOX (METER REMOVED THIS PROJECT) TO PLAY SHED PANEL, SEE ELECTRICAL SHEETS.
- (10) NEW SERVICE POWER PANELS - SEE ELECTRICAL SHEETS
- (11) NEW DISTRIBUTION LINES - ROUTE NEW DISTRIBUTION LINES ALONG ROOF TOP MOUNTED CONDUIT FROM NEW SERVICE PANELS TO EXISTING GYMNASIUM ELECTRICAL ROOM, SEE ELECTRICAL SHEETS
- (12) STOP & MARK - STOP NEW CONDUIT AT THIS POINT INDICATED. MARK FOR FUTURE EXTENSION TO NEW VOC SHOP BUILDING TO BE CONSTRUCTED DURING PHASE 1a.3 NEW VOC SHOP.
- (13) PATCH PAVEMENT - PATCH BACK PAVEMENT AS REQUIRED.
- (14) INTERFACE NEW & EXISTING CONDUIT - CONNECT NEW CONDUIT TO EXISTING CONDUIT INSTALLED DURING PHASE 1b.7 PANEL ROOM & HALLWAY

Future Phase Coordination Notes

Applicable to this Sheet only
NOTE: THE FOLLOWING NOTES APPLY TO FUTURE PHASED WORK THAT MAY IMPACT OR REQUIRE COORDINATION WITH THE CURRENT PHASE OF WORK.

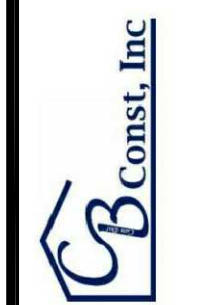
DO NOT BID THE FOLLOWING WORK: (TO BE DONE IN FUTURE PHASES)

- (C1) FUTURE UNDERGROUND POWER CONDUIT - TO BE INSTALLED DURING PHASE '1a.3 VOC SHOP ADDITION'
- (C2) EXISTING FIBER OPTIC ROUTE - EXISTING FIBER OPTIC LINE FROM STREET, DO NOT DISTURB
- (C3) FUTURE UNDERGROUND FIBER OPTIC UTILITY - TO BE INSTALLED DURING PHASE '1a.3 VOC SHOP ADDITION' SHOWN FOR COORDINATION PURPOSES ONLY
- (C4) FUTURE UNDERGROUND FIBER OPTIC UTILITY - TO BE INSTALLED DURING PHASE '1a.3 VOC SHOP ADDITION' SHOWN FOR COORDINATION PURPOSES ONLY
- (C5) FUTURE UNDERGROUND FIRE ALARM UTILITY - TO BE INSTALLED DURING PHASE '1a.3 VOC SHOP ADDITION' SHOWN FOR COORDINATION PURPOSES ONLY
- (C6) FUTURE UNDERGROUND POWER CONDUIT - TO BE INSTALLED DURING PHASE '1c.11 CLASSROOM ADDITION'

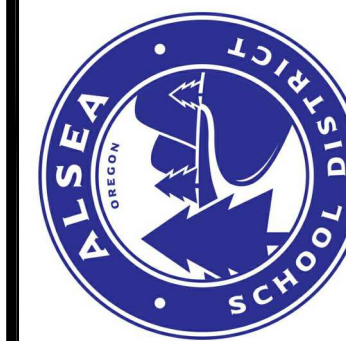


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







































Enlarged Architectural Site
SITE PLAN

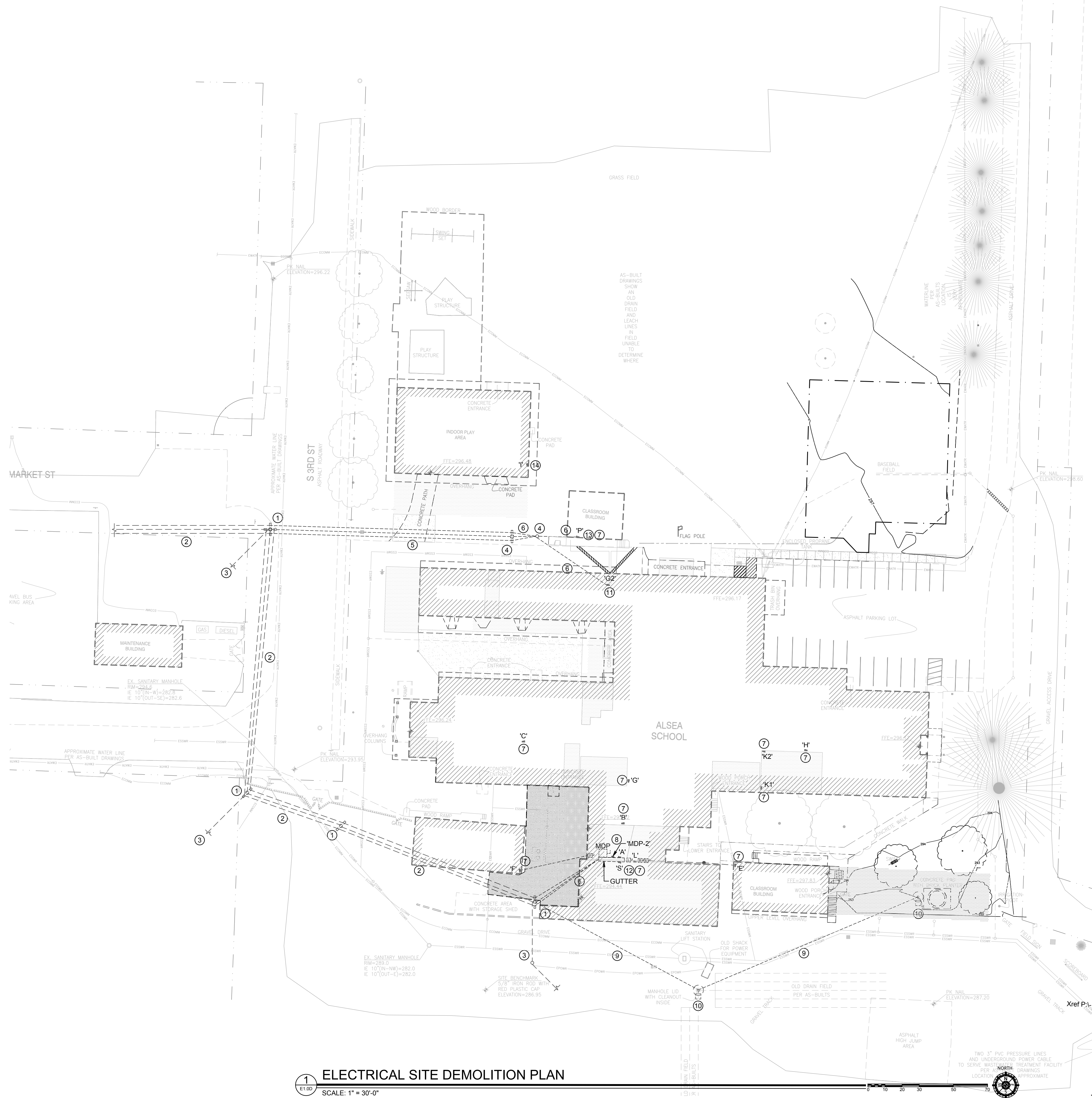
2 Enlarged Electrical Room

A0.4 Not to Scale

1 Site Plan - Demolition & New (Enlarged)

A0.4 SCALE: 1/2" = 1'

| | | | | | | | | | | | |
|----|--|---|---|---|---|---|---|---|---|--|---|
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | | | |
| E | ELECTRICAL ABBREVIATIONS | | LIGHTING SYMBOLS see luminaire schedule for mounting and fixture type | | ELECTRICAL DEVICE SYMBOLS see electrical specifications for further information | | ONE LINE SYMBOLS see electrical specifications for further information | | CIRCUITING SYMBOLS see electrical specifications for further information | |  |
| D | A AMPERES AC 6" ABOVE BACKSPLASH AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AF AMP FRAME AIC AMPS INTERRUPTING CAPACITY AT AMP TRIP ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE C CONDUIT CB CIRCUIT BREAKER CKT CIRCUIT CO CONDUIT ONLY, PROVIDE PULL-LINE CT CURRENT TRANSFORMER CTL CONTROL DC DIRECT CURRENT DEMO DEMOLITION DET DETAIL E EMPTY/EMERGENCY (E) EXISTING EC ELECTRICAL CONTRACTOR EF EXHAUST FAN EL EMERGENCY LIGHT EWC ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER EXG EXISTING F FUSE FVNR FULL VOLTAGE NON-REVERSING FYR FULL VOLTAGE REVERSING G/GND GROUND GFI GROUND FAULT INTERRUPTION HH HANDHOLE HD HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO HPS HIGH PRESSURE SODIUM HT HEIGHT HVAC HEATING, VENTILATING, & AIR CONDITIONING HACR HEATING, AIR CONDITIONING, REFRIGERATION IBT INTERSYSTEM BONDING TERMINATION IC INTERRUPTING CAPACITY IG ISOLATED GROUND IPCO IDAHO POWER COMPANY JUB JUNCTION BOX KA KILOAMP KW KILOWATT KWH KILOWATT HOUR LTE LONG TERM EVALUATION M MAGNETIC CONTACTOR COIL MB MAIN BREAKER MC MECHANICAL CONTRACTOR MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MLO MAIN LUGS ONLY MS MOTOR STARTER MH MANHOLE MH METAL HALIDE MTG MOUNTING N NEUTRAL NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NIC NOT IN CONTRACT NO NORMALLY OPEN NTS NOT TO SCALE OH OVERHEAD OL OVERLOAD OS OCCUPANCY SENSOR OFCI OWNER FURNISHED CONTRACTOR INSTALLED PC PHOTOCCELL PNL PANEL PT POTENTIAL TRANSFORMER PVC POLYVINYL CHLORIDE PWR POWER PIR PASSIVE INFARED REC RECEPTACLE (R) RELOCATED SF SQUARE FEET T TELEPHONE TB TERMINAL BOARD TBD TO BE DETERMINED TC TIME CLOCK TDR TIME DELAY RELAY TJB TERMINAL JUNCTION BOX TSP TWISTED SHIELDED PAIR TTB TELEPHONE TERMINAL BOARD TYP TYPICAL UG UNDERGROUND UH UNIT HEATER UNO UNLESS NOTED OTHERWISE V VOLT VA VOLT-AMPERE WP WEATHER PROOF/NEMA 3R XFMR TRANSFORMER X EXPLOSION PROOF XFR TRANSFER | |  2x4' ARCHITECTURAL LUMINAIRE  2x4' PARABOLIC LUMINAIRE  2x4' LUMINAIRE  2x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED  1x4' LUMINAIRE  1x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED  6'x4' LUMINAIRE  6'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED  2x2' PARABOLIC LUMINAIRE  2x2' LUMINAIRE  SURFACE CABLE DOWN LUMINAIRE  SURFACE PENDANT LUMINAIRE  STEP LUMINAIRE  RECESSED WALLWASH LUMINAIRE  RECESSED SLOPED CEILING LUMINAIRE  RECESSED ACCENT LUMINAIRE  RECESSED LUMINAIRE  RECESSED LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED  INDIRECT LUMINAIRE (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. DO NOT CUT OFF EXCESS AIRCRAFT CABLE. VERIFY FINAL MOUNTING HEIGHT WITH OWNER. SEE DETAIL ON DETAIL SHEET(S).  INDIRECT LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. DO NOT CUT OFF EXCESS AIRCRAFT CABLE. VERIFY FINAL MOUNTING HEIGHT WITH OWNER. SEE DETAIL ON DETAIL SHEET(S).  4' WALL FIXTURE  4' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED  2' WALL FIXTURE  2' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED  3' WALL FIXTURE  EMERGENCY LUMINAIRE  SURFACE/WALL MOUNTED FLOOD LIGHT  TRACK LUMINAIRE HEAD MOUNTED AS INDICATED  ROUND LUMINAIRE  WALL MOUNTED LUMINAIRE  TIMECLOCK  PHOTOCCELL  OCCUPANCY SENSOR. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 6FT FROM ANY HVAC DIFFUSERS.  CEILING MOUNTED VACANCY SENSOR. VACANCY SENSOR TO BE INSTALLED NO LESS THAN 6FT FROM ANY HVAC DIFFUSERS. PROVIDE WITH LOW VOLTAGE MOMENTARY WALL SWITCH FOR MANUAL 'ON' CONTROL.  POLE LIGHT WITH ONE HEAD ARM MOUNTED  POLE LIGHT WITH TWO HEADS ARM MOUNTED  WALLPACK LUMINAIRE  WALLPACK LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED  LIGHTING CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE, POLES, AND TYPE AS INDICATED ON DRAWING  CEILING MOUNTED EXIT SIGN, DOUBLE FACE  WALL MOUNTED EXIT SIGN, DOUBLE FACE  CEILING MOUNTED EXIT SIGN, SINGLE FACE  WALL MOUNTED EXIT SIGN, SINGLE FACE  WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO UNIT, SINGLE FACE  ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN  MOUNTING TYPE: ALL LAMP TYPE AND NUMBER TO DIFFERENT LUMINAIRE E-DESIGNATES FIXTURE WITH EMERGENCY BATTERY FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH BODINE 90 MINUTE EMERGENCY BATTERY PACK (OR EQUAL) SUITABLE FOR THAT FIXTURES LAMP TYPE AND TO PRODUCE 50% OF THE ORIGINAL OUTPUT. | | D DIMMER K KEYPAD LV LOW VOLTAGE M MOMENTARY CONTACT OV OVERRIDE OCCUPANCY SENSOR: SEE DRAWINGS FOR ADDITIONAL INFORMATION | DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY. SINGLE RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. SINGLE RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. DUPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. C CEILING MOUNTED DUPLEX RECEPTACLE. HALF OF RECEPTACLE SHALL BE SWITCHED. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. DUPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. FOURPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. FOURPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. SWITCH SUBSCRIPT INDICATES TYPE OF SWITCH. MOUNT AT +48" AFF UNLESS NOTED OTHERWISE D DIMMER K KEYPAD LV LOW VOLTAGE M MOMENTARY CONTACT OV OVERRIDE OCCUPANCY SENSOR: SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR 2-POLE, LINE VOLTAGE OCCUPANCY SENSOR, FURNISH AND INSTALL DUAL LEVEL SWITCHING. SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE. VS VACANCY SENSOR: SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE. VACANCY SENSOR TO BE PROVIDED WITH MANUAL 'ON' OPERATION. P PILOT LIGHT TO THERMAL OVERLOAD (THE NUMBER OF POLES TO MATCH CIRCUIT REQUIREMENTS AND BE SIZED FOR ASSOCIATED MOTOR LOAD.) 2 DOUBLE POLE 3 THREE WAY 4 FOUR WAY a SUPERScript INDICATES LIGHTS TO BE SWITCHED MOTOR STARTER/CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING. COMBINATION MOTOR STARTER AND DISCONNECT TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING. FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED. NON-FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED. THERMOSTAT MOUNTED AT +48" AFF UNLESS NOTED OTHERWISE. MECHANICAL UNIT TO BE CONTROLLED AS INDICATED. AQUASTAT EQUIPMENT CONNECTION POINT. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE. EQUIPMENT CONNECTION POINT MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE GROUND ROD; 5/8" BY 10' MINIMUM, COPPER-CLAD JUNCTION BOX WALL MOUNTED PUSHBUTTON. MOUNT AT +48" AFF UNLESS NOTED OTHERWISE 3 BUTTON DOOR CONTROLLER 2 BUTTON DOOR CONTROLLER TRANSFORMER. SIZE AND TYPE AS INDICATED # = TRANSFORMER DESIGNATION MOTOR WITH THERMAL OVERLOAD MOTOR PANELBOARD. SEE ELECTRICAL SCHEDULES FOR TYPE, SIZE AND MOUNTING # = PANELBOARD DESIGNATION EQUIPMENT CABINET, SURFACE MOUNTED EQUIPMENT CABINET, FLUSH MOUNTED WALL MOUNTED CIRCUIT BREAKER. TYPE AND SIZE AS INDICATED WIREMOLD - POWER AND DATA RACEWAY MOUNT RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED PLUGMOLD - POWER ONLY MECHANICAL EQUIPMENT CALLOUT POWER POLE TWO COMPARTMENT POWER POLE | | ATS AUTOMATIC TRANSFER SWITCH. SIZE AND POLES AS INDICATED ON DRAWING #A #P CIRCUIT BREAKER. SIZE AND POLES AS INDICATED ON DRAWING PANEL PAD MOUNTED TRANSFORMER BY LOCAL UTILITY METER GROUND BAR S SECTOR SWITCH | | NEUTRAL ISOLATED GROUND GROUNDING CONDUCTOR CURRENT CARRYING CONDUCTORS 3/4" MIN. PANEL HOMERUN EM EMERGENCY POWER SOURCE CIRCUIT CONCEALED IN WALL OR CEILING TYPICALLY TO BE 2#12, 1#12G, 2#4" G (UNO) QUANTITY AND SIZE OF CONDUCTORS CONDUIT SIZE QUANTITY AND SIZE OF GROUNDING CONDUCTOR BEGINNING OF CIRCUIT AND NUMBER OF CIRCUIT CONDUIT UP CONDUIT DOWN UNDERGROUND OR CONCEALED CONDUIT EXISTING CONDUIT CONDUIT STUBBED, CAPPED, MARKED, AND PROVIDED WITH FULL STRING FUTURE CONDUIT LINE TYPES ----- EXISTING ----- DEMOLITION ----- FUTURE ----- NEW ELECTRICAL DRAWING SHEET INDEX E0.0 ELECTRICAL SYMBOLS AND SHEET INDEX E1.0D ELECTRICAL SITE DEMOLITION PLAN E1.0E ELECTRICAL SITE PLAN E2.0D ELECTRICAL DEMOLITION PLAN E3.0 SITE DEMOLITION POWER DISTRIBUTION PLAN E3.1 SITE - NEW POWER DISTRIBUTION PLAN E3.2 EXISTING/DEMOLITION ONE LINE DIAGRAM E3.3 NEW ONE LINE DIAGRAM E3.4 ELECTRICAL SCHEDULES | |
| C | ALSEA SCHOOL DISTRICT 1a.2: POWER SERVICE UPGRADE | | | | | | | | | | |
| B | CB Const. Inc. CB Construction 1202 Adams Avenue LaGrande, OR 97850 | | | | | | | | | | |
| A | STRAIGHTLINE ARCHITECTURE 4521 South Cloverdale Road Suite 101 - Rose, Idaho 83709 P: 208.991.0825 E: scott@straightline.biz W: www.straightlinearchitects.com Date: 01-11-2022 Project: ALS-1821 Version History: V1.0 PHASES (PH): 1a.2 ISSUE: 1-15-22 BID & PERMIT ISSUE DRAWING NO. E0.0 ELECTRICAL SYMBOLS AND SHEET INDEX | | | | | | | | | | |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 E0.0 ELECTRICAL SYMBOLS AND SHEET INDEX SCALE: NO SCALE | | |



GENERAL NOTES:

- ALL WORK SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY AND THE SCHOOL DISTRICT FOR DEMOLITION, PROTECTION OF EXISTING TO REMAIN, CONSTRUCTION SCHEDULING, DOWN TIME WITH OF THE SCHOOL (POWER OUTAGES).
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.

KEYED NOTES:

- EXISTING POWER POLE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- EXISTING OVERHEAD PRIMARY CONDUCTORS ARE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- EXISTING OVERHEAD SECONDARY TO REMAIN, SHOWN FOR REFERENCE ONLY.
- EXISTING POWER POLE TO BE DISCONNECTED AND REMOVED. ALL WORK SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY AND THE SCHOOL DISTRICT BY THE ELECTRICAL CONTRACTOR.
- EXISTING OVERHEAD PRIMARY POWER TO BE DISCONNECTED AND REMOVED BY LOCAL UTILITY COMPANY. ALL WORK SHALL BE COORDINATED WITH THE UTILITY COMPANY AND THE SCHOOL DISTRICT BY THE ELECTRICAL CONTRACTOR.
- EXISTING OVERHEAD SECONDARY TO BE DISCONNECTED AND REMOVED BY THE ELECTRICAL CONTRACTOR, INCLUDING WEATHER HEADS, SERVICE ENTRANCE PANELS, METER BASES, METERS, AND OTHER ITEMS ASSOCIATED WITH THE POWER DISTRIBUTION SYSTEM. ALL WORK SHALL BE COORDINATED WITH THE UTILITY COMPANY AND THE SCHOOL DISTRICT BY THE ELECTRICAL CONTRACTOR.
- SEE ONE LINE DIAGRAMS ON SHEET E3.2 AND E3.3 FOR INFORMATION REGARDING THE EXISTING PANELS THAT ARE TO REMAIN AND BE RE-FED FROM THE NEW MSB.
- ALL SERVICE ENTRANCE EQUIPMENT AND POWER DISTRIBUTION EQUIPMENT IN THIS AREA SHALL BE DISCONNECTED AND REMOVED. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 FOR ADDITIONAL INFORMATION. SEE NEW ONE LINE DIAGRAM ON SHEET E3.3 FOR RE-FEEDING THE PANELS THAT ARE EXISTING TO REMAIN.
- OVERHEAD SECONDARY POWER FROM UTILITY TO POLE MOUNTED LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED, COORDINATE ALL WORK WITH THE UTILITY COMPANY.
- WOODEN UTILITY POLE AND POLE MOUNTED LIGHT TO BE DISCONNECTED AND REMOVED. COORDINATE ALL WORK WITH THE UTILITY COMPANY.
- EXISTING PANEL G2 (POWERED OVERHEAD FROM THE UTILITY POWER POLE) IS TO BE DISCONNECTED AND REMOVED. A NEW PANEL IS TO BE INSTALLED IN THE SAME GENERAL AREA THAT IS FED FROM THE NEW MSB. SEE ONLINE DIAGRAMS FOR ADDITIONAL INFORMATION.
- EXISTING PANEL S (INDUSTRIAL ARTS SHOP) IS TO REMAIN AND BE RE-FED FROM THE NEW MSB IN THIS PHASE. THE PANEL WILL BE DISCONNECTED AND REMOVED IN FUTURE PHASE ASSOCIATED WITH THE KITCHEN/CAFETERIA REMODEL. SEE ONLINE DIAGRAMS FOR ADDITIONAL INFORMATION.
- EXISTING PANEL P LOCATED IN THE PORTABLE CLASSROOM IS TO REMAIN AND BE RE-FED FROM PANEL G2. SEE ONLINE DIAGRAMS FOR ADDITIONAL INFORMATION.
- EXISTING PANEL I TO BE DISCONNECTED AND REMOVED, A NEW PANEL I IS TO BE INSTALLED IN THE SAME LOCATION AND FED FROM PANEL G2. SEE ONLINE DIAGRAMS FOR ADDITIONAL INFORMATION.



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PHASES (PH): 1a.2

ISSUE: 1-15-22

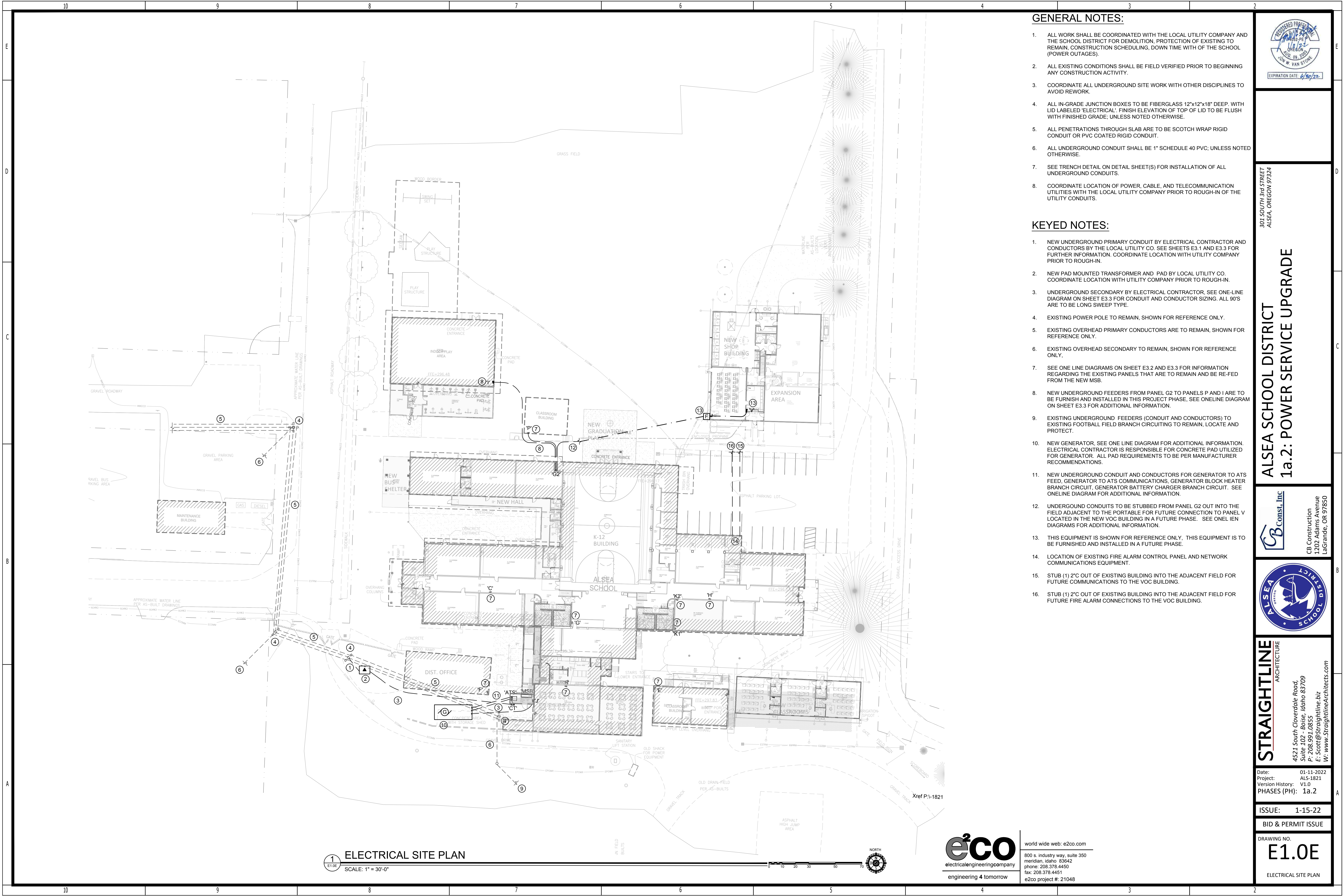
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DRAWING NO.
E1.0D
ELECTRICAL SITE
DEMOLITION PLAN

Working Drawings - CAD11c.11 - 6TH-8TH CLASSROOMXMB-CLASSADD-ALS.dwg

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GENERAL NOTES:

- ALL WORK SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY AND THE SCHOOL DISTRICT FOR DEMOLITION, PROTECTION OF EXISTING TO REMAIN, CONSTRUCTION SCHEDULING, DOWN TIME WITH OF THE SCHOOL (POWER OUTAGES).
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
- COORDINATE ALL UNDERGROUND SITE WORK WITH OTHER DISCIPLINES TO AVOID REWORK.
- ALL IN-GRADE JUNCTION BOXES TO BE FIBERGLASS 12"x12"x18" DEEP, WITH LID LABELED 'ELECTRICAL'. FINISH ELEVATION OF TOP OF LID TO BE FLUSH WITH FINISHED GRADE; UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS THROUGH SLAB ARE TO BE SCOTCH WRAP RIGID CONDUIT OR PVC COATED RIGID CONDUIT.
- ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC; UNLESS NOTED OTHERWISE.
- SEE TRENCH DETAIL ON DETAIL SHEET(S) FOR INSTALLATION OF ALL UNDERGROUND CONDUITS.
- COORDINATE LOCATION OF POWER, CABLE, AND TELECOMMUNICATION UTILITIES WITH THE LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN OF THE UTILITY CONDUITS.

KEYED NOTES:

- NEW UNDERGROUND PRIMARY CONDUIT BY ELECTRICAL CONTRACTOR AND CONDUCTORS BY THE LOCAL UTILITY CO. SEE SHEETS E3.1 AND E3.3 FOR FURTHER INFORMATION. COORDINATE LOCATION WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
- NEW PAD MOUNTED TRANSFORMER AND PAD BY LOCAL UTILITY CO. COORDINATE LOCATION WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
- UNDERGROUND SECONDARY BY ELECTRICAL CONTRACTOR, SEE ONE-LINE DIAGRAM ON SHEET E3.3 FOR CONDUIT AND CONDUCTOR SIZING. ALL 90'S ARE TO BE LONG SWEEP TYPE.
- EXISTING POWER POLE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- EXISTING OVERHEAD PRIMARY CONDUCTORS ARE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- EXISTING OVERHEAD SECONDARY TO REMAIN, SHOWN FOR REFERENCE ONLY.
- SEE ONE LINE DIAGRAMS ON SHEET E3.2 AND E3.3 FOR INFORMATION REGARDING THE EXISTING PANELS THAT ARE TO REMAIN AND BE RE-FED FROM THE NEW MSB.
- NEW UNDERGROUND FEEDERS FROM PANEL G2 TO PANELS P AND I ARE TO BE FURNISH AND INSTALLED IN THIS PROJECT PHASE, SEE ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
- EXISTING UNDERGROUND FEEDERS (CONDUIT AND CONDUCTORS) TO EXISTING FOOTBALL FIELD BRANCH CIRCUITING TO REMAIN, LOCATE AND PROTECT.
- NEW GENERATOR. SEE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONCRETE PAD UTILIZED FOR GENERATOR. ALL PAD REQUIREMENTS TO BE PER MANUFACTURER RECOMMENDATIONS.
- NEW UNDERGROUND CONDUIT AND CONDUCTORS FOR GENERATOR TO ATS FEED, GENERATOR TO ATS COMMUNICATIONS, GENERATOR BLOCK HEATER BRANCH CIRCUIT, GENERATOR BATTERY CHARGER BRANCH CIRCUIT. SEE ONELINE DIAGRAM FOR ADDITIONAL INFORMATION.
- UNDERGROUND CONDUITS TO BE STUBBED FROM PANEL G2 OUT INTO THE FIELD ADJACENT TO THE PORTABLE FOR FUTURE CONNECTION TO PANEL V LOCATED IN THE NEW VOC BUILDING IN A FUTURE PHASE. SEE ONELINE DIAGRAMS FOR ADDITIONAL INFORMATION.
- THIS EQUIPMENT IS SHOWN FOR REFERENCE ONLY. THIS EQUIPMENT IS TO BE FURNISHED AND INSTALLED IN A FUTURE PHASE.
- LOCATION OF EXISTING FIRE ALARM CONTROL PANEL AND NETWORK COMMUNICATIONS EQUIPMENT.
- STUB (1) 2" OUT OF EXISTING BUILDING INTO THE ADJACENT FIELD FOR FUTURE COMMUNICATIONS TO THE VOC BUILDING.
- STUB (1) 2" OUT OF EXISTING BUILDING INTO THE ADJACENT FIELD FOR FUTURE FIRE ALARM CONNECTIONS TO THE VOC BUILDING.



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Date: 01-11-2022
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Version History: V1.0
PHASES (PH): 1a.2

ISSUE: 1-15-22

BID & PERMIT ISSUE

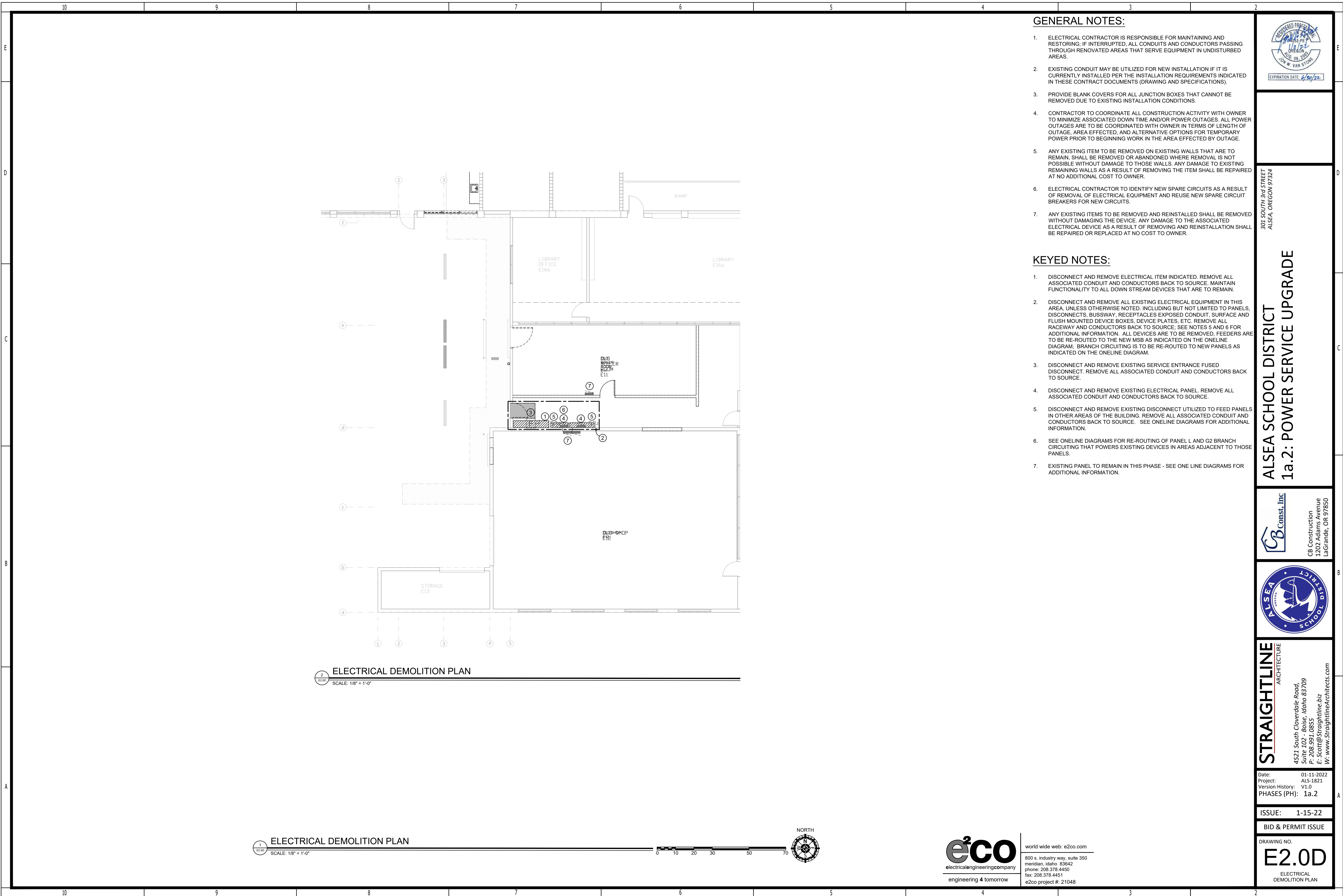
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E1.0E

ELECTRICAL SITE PLAN

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GENERAL NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING; IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
2. EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
3. PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
4. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
5. ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
6. ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
7. ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

KEYED NOTES:

1. DISCONNECT AND REMOVE ELECTRICAL ITEM INDICATED. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN FUNCTIONALITY TO ALL DOWN STREAM DEVICES THAT ARE TO REMAIN.
2. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THIS AREA, UNLESS OTHERWISE NOTED. INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, BUSSWAY, RECEPTACLES EXPOSED CONDUIT, SURFACE AND FLUSH MOUNTED DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL RACEWAY AND CONDUCTORS BACK TO SOURCE; SEE NOTES 5 AND 6 FOR ADDITIONAL INFORMATION. ALL DEVICES ARE TO BE REMOVED. FEEDERS ARE TO BE RE-ROUTED TO THE NEW MSB AS INDICATED ON THE ONLINE DIAGRAM. BRANCH CIRCUITING IS TO BE RE-ROUTED TO NEW PANELS AS INDICATED ON THE ONLINE DIAGRAM.
3. DISCONNECT AND REMOVE EXISTING SERVICE ENTRANCE FUSED DISCONNECT. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.
4. DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.
5. DISCONNECT AND REMOVE EXISTING DISCONNECT UTILIZED TO FEED PANELS IN OTHER AREAS OF THE BUILDING. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. SEE ONLINE DIAGRAMS FOR ADDITIONAL INFORMATION.
6. SEE ONLINE DIAGRAMS FOR RE-ROUTING OF PANEL L AND G2 BRANCH CIRCUITING THAT POWERS EXISTING DEVICES IN AREAS ADJACENT TO THOSE PANELS.
7. EXISTING PANEL TO REMAIN IN THIS PHASE - SEE ONE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.



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Date: 01-11-2022
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Version History: V1.0
PHASES (PH): 1a.2

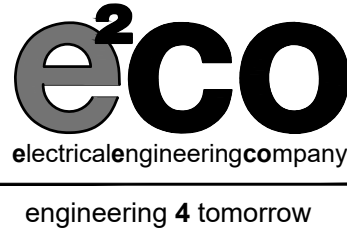
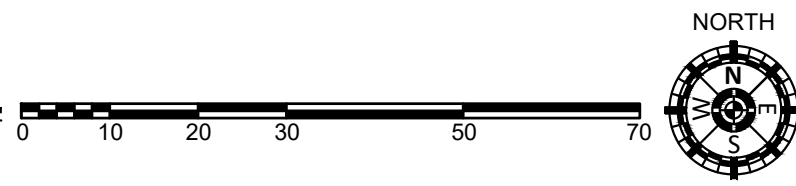
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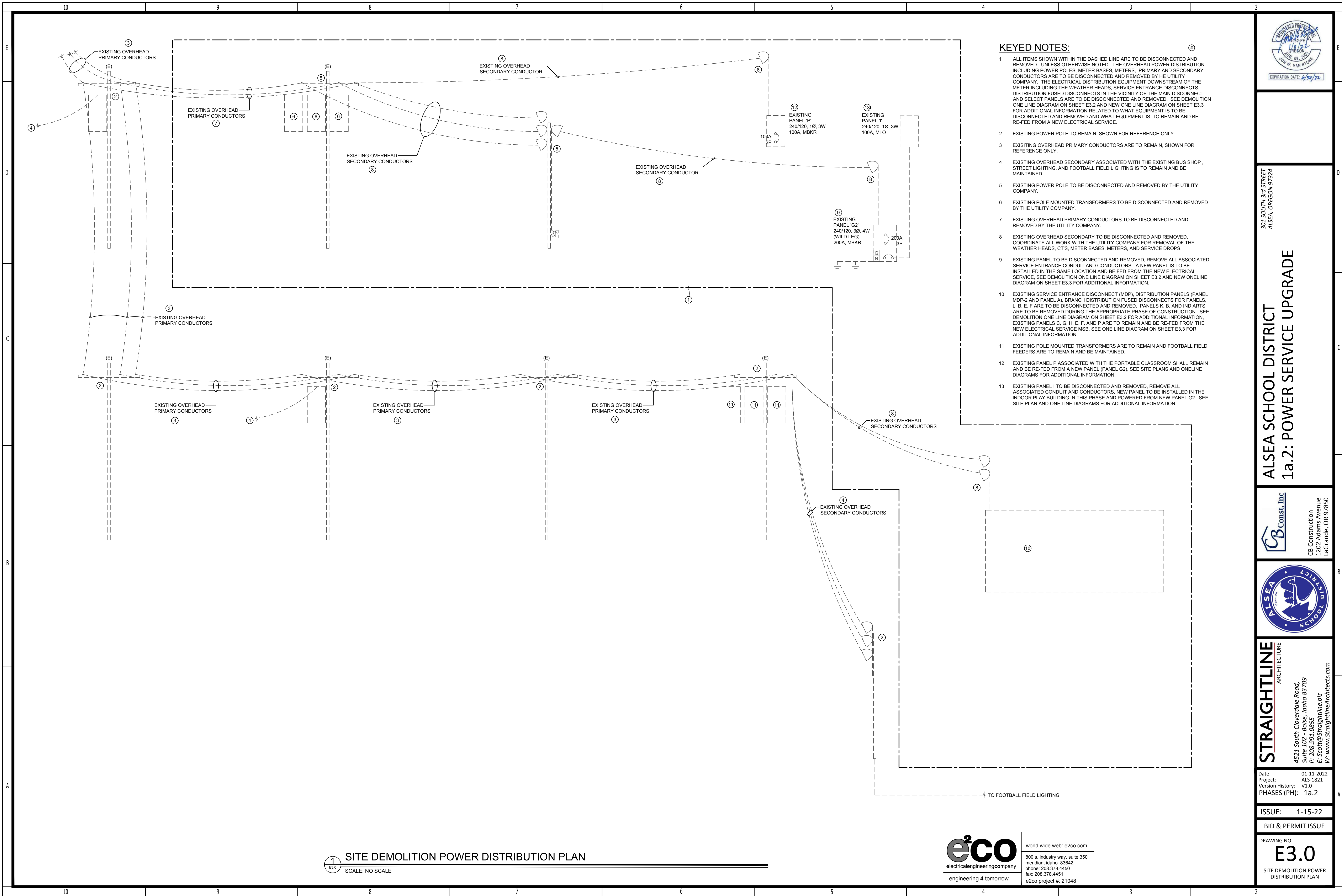
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ELECTRICAL
DEMOLITION PLAN

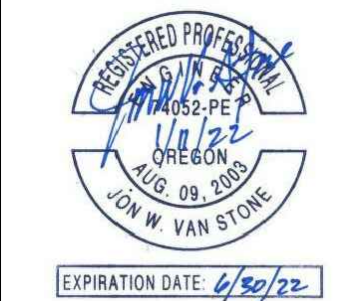
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E2.0D
ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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- KEYED NOTES:**
- 1 ALL ITEMS SHOWN WITHIN THE DASHED LINE ARE TO BE DISCONNECTED AND REMOVED - UNLESS OTHERWISE NOTED. THE OVERHEAD POWER DISTRIBUTION INCLUDING POWER POLES, METER BASES, METERS, PRIMARY AND SECONDARY CONDUCTORS ARE TO BE DISCONNECTED AND REMOVED BY HE UTILITY COMPANY. THE ELECTRICAL DISTRIBUTION EQUIPMENT DOWNSTREAM OF THE METER INCLUDING THE WEATHER HEADS, SERVICE ENTRANCE DISCONNECTS, DISTRIBUTION FUSED DISCONNECTS IN THE VICINITY OF THE MAIN DISCONNECT AND SELECT PANELS ARE TO BE DISCONNECTED AND REMOVED. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 AND NEW ONE LINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION RELATED TO WHAT EQUIPMENT IS TO BE DISCONNECTED AND REMOVED AND WHAT EQUIPMENT IS TO REMAIN AND BE RE-FED FROM A NEW ELECTRICAL SERVICE.
 - 2 EXISTING POWER POLE TO REMAIN, SHOWN FOR REFERENCE ONLY.
 - 3 EXISTING OVERHEAD PRIMARY CONDUCTORS ARE TO REMAIN, SHOWN FOR REFERENCE ONLY.
 - 4 EXISTING OVERHEAD SECONDARY ASSOCIATED WITH THE EXISTING BUS SHOP, STREET LIGHTING, AND FOOTBALL FIELD LIGHTING IS TO REMAIN AND BE MAINTAINED.
 - 5 EXISTING POWER POLE TO BE DISCONNECTED AND REMOVED BY THE UTILITY COMPANY.
 - 6 EXISTING POLE MOUNTED TRANSFORMERS TO BE DISCONNECTED AND REMOVED BY THE UTILITY COMPANY.
 - 7 EXISTING OVERHEAD PRIMARY CONDUCTORS TO BE DISCONNECTED AND REMOVED BY THE UTILITY COMPANY.
 - 8 EXISTING OVERHEAD SECONDARY TO BE DISCONNECTED AND REMOVED, COORDINATE ALL WORK WITH THE UTILITY COMPANY FOR REMOVAL OF THE WEATHER HEADS, CTS, METER BASES, METERS, AND SERVICE DROPS.
 - 9 EXISTING PANEL TO BE DISCONNECTED AND REMOVED, REMOVE ALL ASSOCIATED SERVICE ENTRANCE CONDUIT AND CONDUCTORS - A NEW PANEL IS TO BE INSTALLED IN THE SAME LOCATION AND BE FED FROM THE NEW ELECTRICAL SERVICE. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 AND NEW ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
 - 10 EXISTING SERVICE ENTRANCE DISCONNECT (MDP), DISTRIBUTION PANELS (PANEL MDP-2 AND PANEL A), BRANCH DISTRIBUTION FUSED DISCONNECTS FOR PANELS, L, B, E, F ARE TO BE DISCONNECTED AND REMOVED. PANELS K, B, AND IND ARTS ARE TO BE REMOVED DURING THE APPROPRIATE PHASE OF CONSTRUCTION. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 FOR ADDITIONAL INFORMATION. EXISTING PANELS C, G, H, E, F, AND P ARE TO REMAIN AND BE RE-FED FROM THE NEW ELECTRICAL SERVICE MSB, SEE ONE LINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
 - 11 EXISTING POLE MOUNTED TRANSFORMERS ARE TO REMAIN AND FOOTBALL FIELD FEEDERS ARE TO REMAIN AND BE MAINTAINED.
 - 12 EXISTING PANEL P ASSOCIATED WITH THE PORTABLE CLASSROOM SHALL REMAIN AND BE RE-FED FROM A NEW PANEL (PANEL G2), SEE SITE PLANS AND ONELINE DIAGRAMS FOR ADDITIONAL INFORMATION.
 - 13 EXISTING PANEL I TO BE DISCONNECTED AND REMOVED, REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS, NEW PANEL TO BE INSTALLED IN THE INDOOR PLAY BUILDING IN THIS PHASE AND POWERED FROM NEW PANEL G2. SEE SITE PLAN AND ONE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.



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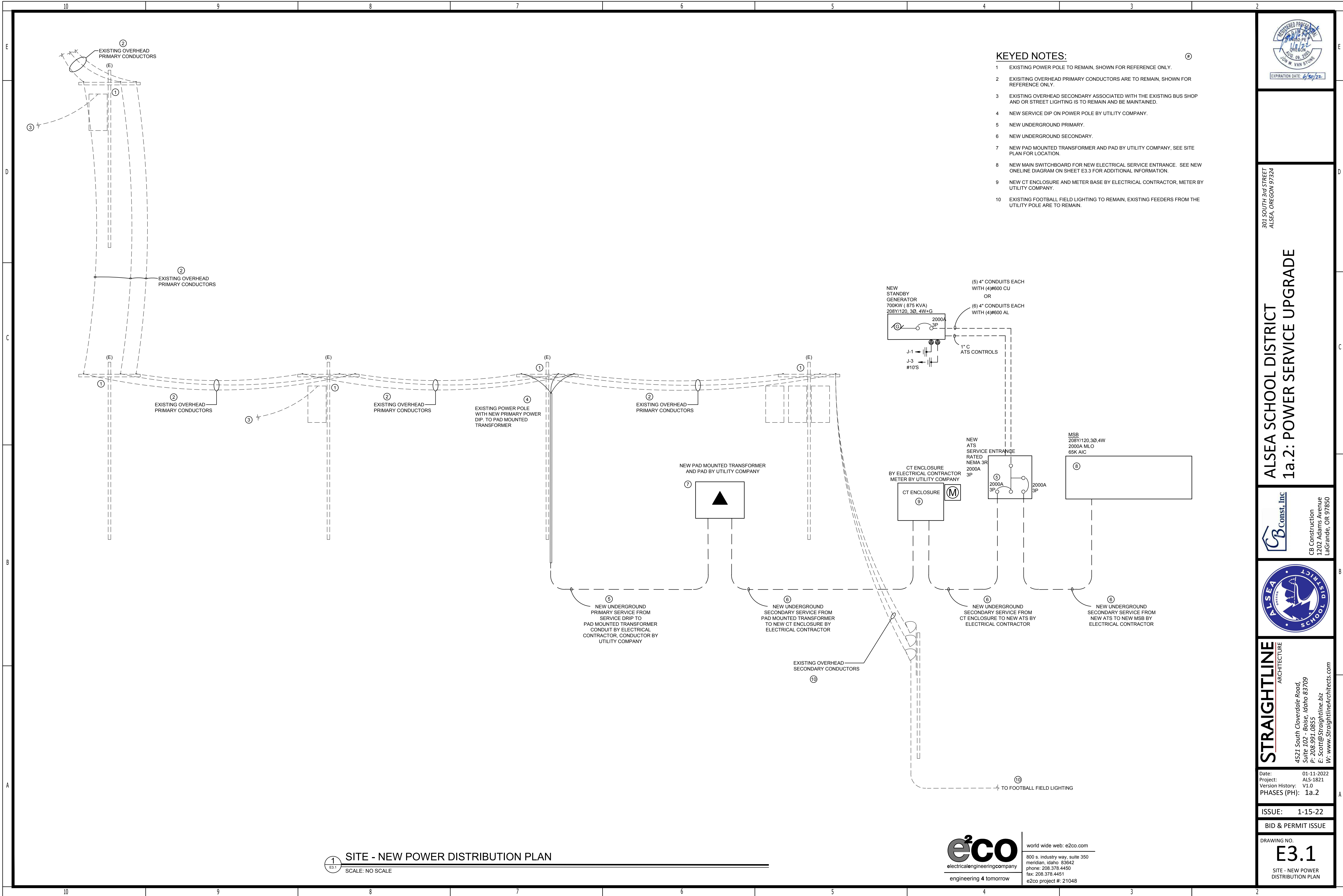
Date: 01-11-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH): 1a.2

ISSUE: 1-15-22

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E3.0
SITE DEMOLITION POWER
DISTRIBUTION PLAN

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Date: 01-11-2022
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PHASES (PH): 1a.2

ISSUE: 1-15-22

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E3.1

SITE - NEW POWER
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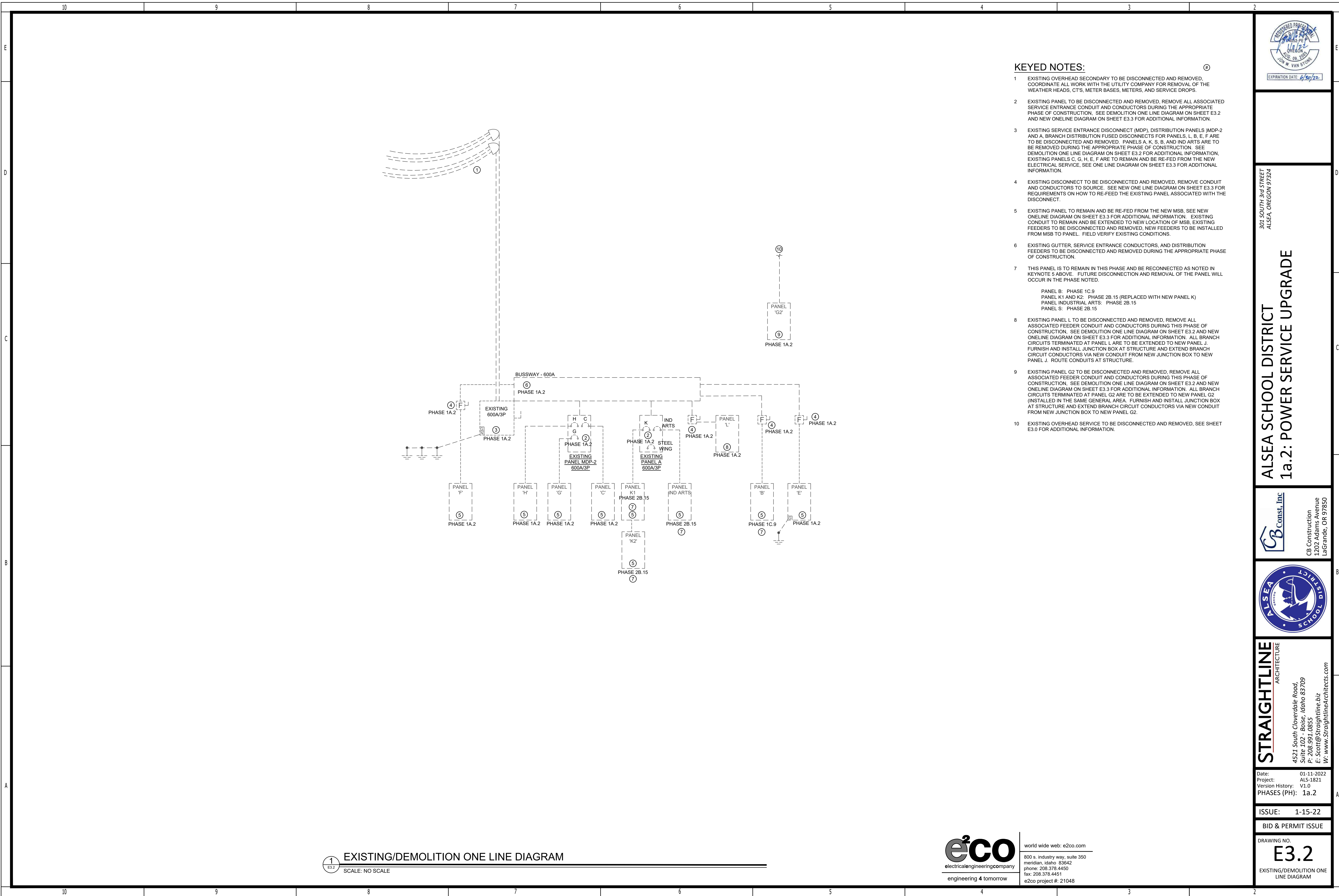
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E3.1

SITE - NEW POWER DISTRIBUTION PLAN

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KEYED NOTES:

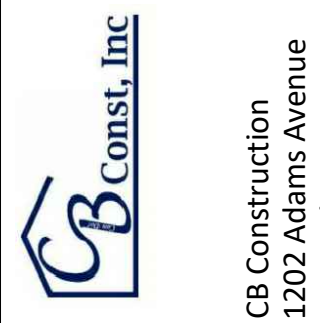
- EXISTING OVERHEAD SECONDARY TO BE DISCONNECTED AND REMOVED. COORDINATE ALL WORK WITH THE UTILITY COMPANY FOR REMOVAL OF THE WEATHER HEADS, CTS, METER BASES, METERS, AND SERVICE DROPS.
- EXISTING PANEL TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED SERVICE ENTRANCE CONDUIT AND CONDUCTORS DURING THE APPROPRIATE PHASE OF CONSTRUCTION. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 AND NEW ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
- EXISTING SERVICE ENTRANCE DISCONNECT (MDP), DISTRIBUTION PANELS (MDP-2 AND A, BRANCH DISTRIBUTION FUSED DISCONNECTS FOR PANELS, L, B, E, F ARE TO BE DISCONNECTED AND REMOVED. PANELS A, K, S, B, AND IND ARTS ARE TO BE REMOVED DURING THE APPROPRIATE PHASE OF CONSTRUCTION. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 FOR ADDITIONAL INFORMATION. EXISTING PANELS C, G, H, E, F ARE TO REMAIN AND BE RE-FED FROM THE NEW ELECTRICAL SERVICE. SEE ONE LINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
- EXISTING DISCONNECT TO BE DISCONNECTED AND REMOVED. REMOVE CONDUIT AND CONDUCTORS TO SOURCE. SEE NEW ONE LINE DIAGRAM ON SHEET E3.3 FOR REQUIREMENTS ON HOW TO RE-FEED THE EXISTING PANEL ASSOCIATED WITH THE DISCONNECT.
- EXISTING PANEL TO REMAIN AND BE RE-FED FROM THE NEW MSB. SEE NEW ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION. EXISTING CONDUIT TO REMAIN AND BE EXTENDED TO NEW LOCATION OF MSB. EXISTING FEEDERS TO BE DISCONNECTED AND REMOVED. NEW FEEDERS TO BE INSTALLED FROM MSB TO PANEL. FIELD VERIFY EXISTING CONDITIONS.
- EXISTING GUTTER, SERVICE ENTRANCE CONDUCTORS, AND DISTRIBUTION FEEDERS TO BE DISCONNECTED AND REMOVED DURING THE APPROPRIATE PHASE OF CONSTRUCTION.
- THIS PANEL IS TO REMAIN IN THIS PHASE AND BE RECONNECTED AS NOTED IN KEYNOTE 5 ABOVE. FUTURE DISCONNECTION AND REMOVAL OF THE PANEL WILL OCCUR IN THE PHASE NOTED.

PANEL B: PHASE 1C.9
PANEL K1 AND K2: PHASE 2B.15 (REPLACED WITH NEW PANEL K)
PANEL INDUSTRIAL ARTS: PHASE 2B.15
PANEL S: PHASE 2B.15
- EXISTING PANEL L TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED FEEDER CONDUIT AND CONDUCTORS DURING THIS PHASE OF CONSTRUCTION. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 AND NEW ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION. ALL BRANCH CIRCUITS TERMINATED AT PANEL L ARE TO BE EXTENDED TO NEW PANEL J. FURNISH AND INSTALL JUNCTION BOX AT STRUCTURE AND EXTEND BRANCH CIRCUIT CONDUCTORS VIA NEW CONDUIT FROM NEW JUNCTION BOX TO NEW PANEL J. ROUTE CONDUITS AT STRUCTURE.
- EXISTING PANEL G2 TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED FEEDER CONDUIT AND CONDUCTORS DURING THIS PHASE OF CONSTRUCTION. SEE DEMOLITION ONE LINE DIAGRAM ON SHEET E3.2 AND NEW ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION. ALL BRANCH CIRCUITS TERMINATED AT PANEL G2 ARE TO BE EXTENDED TO NEW PANEL G2 (INSTALLED IN THE SAME GENERAL AREA. FURNISH AND INSTALL JUNCTION BOX AT STRUCTURE AND EXTEND BRANCH CIRCUIT CONDUCTORS VIA NEW CONDUIT FROM NEW JUNCTION BOX TO NEW PANEL G2.
- EXISTING OVERHEAD SERVICE TO BE DISCONNECTED AND REMOVED, SEE SHEET E3.0 FOR ADDITIONAL INFORMATION.



301 SOUTH 3rd STREET
ALSEA, OREGON 97324

**ALSEA SCHOOL DISTRICT
1a.2: POWER SERVICE UPGRADE**



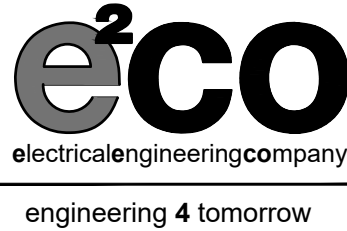
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Date: 01-11-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH): 1a.2

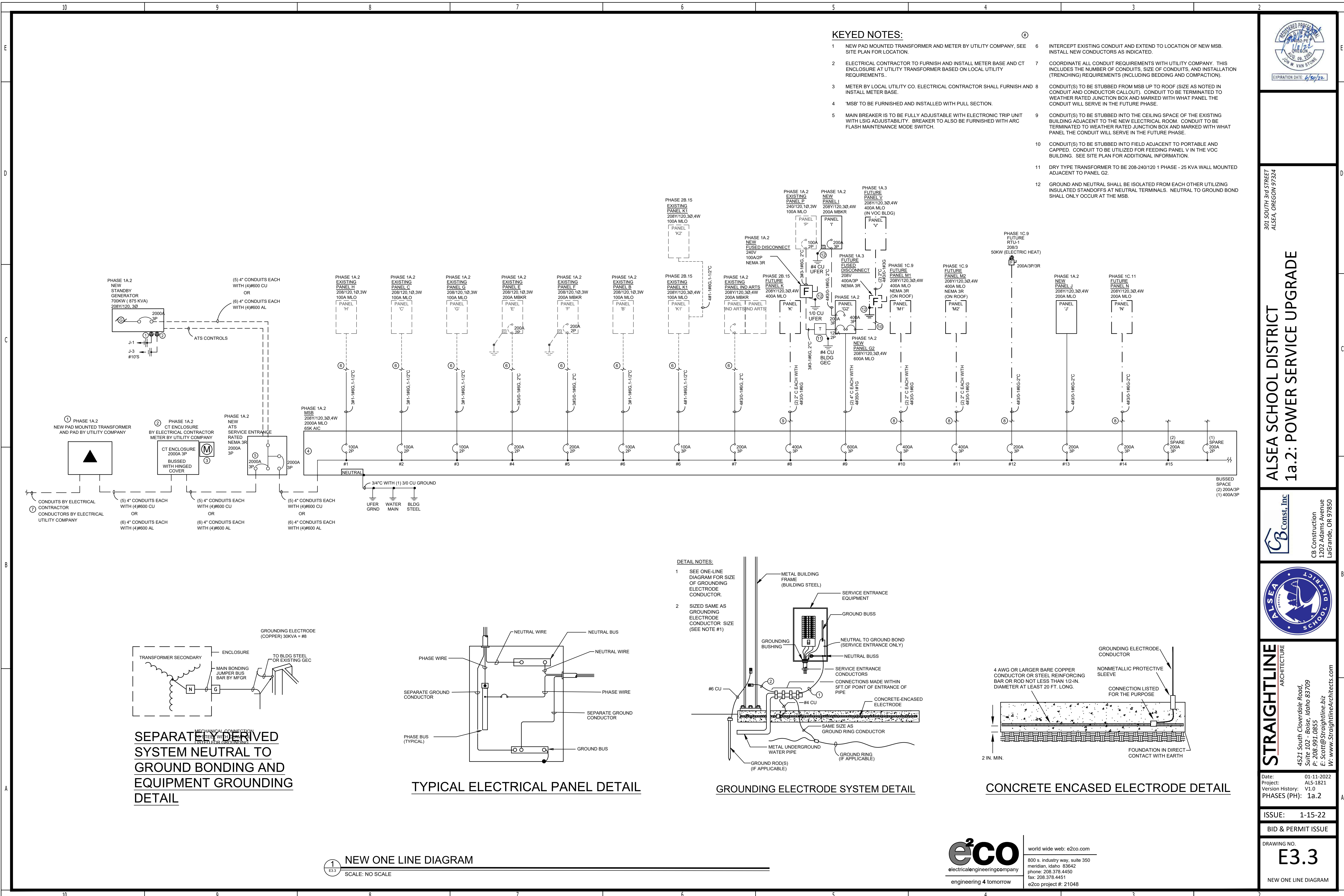
ISSUE: 1-15-22

BID & PERMIT ISSUE

DRAWING NO.
E3.2
EXISTING/DEMOLITION ONE
LINE DIAGRAM



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KEYED NOTES:

- 1 NEW PAD MOUNTED TRANSFORMER AND METER BY UTILITY COMPANY, SEE SITE PLAN FOR LOCATION.
- 2 ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL METER BASE AND CT ENCLOSURE AT UTILITY TRANSFORMER BASED ON LOCAL UTILITY REQUIREMENTS.
- 3 METER BY LOCAL UTILITY CO. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL METER BASE.
- 4 'MSB' TO BE FURNISHED AND INSTALLED WITH PULL SECTION.
- 5 MAIN BREAKER IS TO BE FULLY ADJUSTABLE WITH ELECTRONIC TRIP UNIT WITH LSG ADJUSTABILITY. BREAKER TO ALSO BE FURNISHED WITH ARC FLASH MAINTENANCE MODE SWITCH.
- 6 INTERCEPT EXISTING CONDUIT AND EXTEND TO LOCATION OF NEW MSB. INSTALL NEW CONDUCTORS AS INDICATED.
- 7 COORDINATE ALL CONDUIT REQUIREMENTS WITH UTILITY COMPANY. THIS INCLUDES THE NUMBER OF CONDUITS, SIZE OF CONDUITS, AND INSTALLATION (TRENCHING) REQUIREMENTS (INCLUDING BEDDING AND COMPACTION).
- 8 CONDUIT(S) TO BE STUBBED FROM MSB UP TO ROOF (SIZE AS NOTED IN CONDUIT AND CONDUCTOR CALLOUT). CONDUIT TO BE TERMINATED TO WEATHER RATED JUNCTION BOX AND MARKED WITH WHAT PANEL THE CONDUIT WILL SERVE IN THE FUTURE PHASE.
- 9 CONDUIT(S) TO BE STUBBED INTO THE CEILING SPACE OF THE EXISTING BUILDING ADJACENT TO THE NEW ELECTRICAL ROOM. CONDUIT TO BE TERMINATED TO WEATHER RATED JUNCTION BOX AND MARKED WITH WHAT PANEL THE CONDUIT WILL SERVE IN THE FUTURE PHASE.
- 10 CONDUIT(S) TO BE STUBBED INTO FIELD ADJACENT TO PORTABLE AND CAPPED. CONDUIT TO BE UTILIZED FOR FEEDING PANEL V IN THE VOC BUILDING. SEE SITE PLAN FOR ADDITIONAL INFORMATION.
- 11 DRY TYPE TRANSFORMER TO BE 208-240/120 1 PHASE - 25 KVA WALL MOUNTED ADJACENT TO PANEL G2.
- 12 GROUND AND NEUTRAL SHALL BE ISOLATED FROM EACH OTHER UTILIZING INSULATED STANDOFFS AT NEUTRAL TERMINALS. NEUTRAL TO GROUND BOND SHALL ONLY OCCUR AT THE MSB.

DETAIL NOTES:

- 1 SEE ONE-LINE DIAGRAM FOR SIZE OF GROUNDING ELECTRODE CONDUCTOR.
- 2 SIZED SAME AS GROUNDING ELECTRODE CONDUCTOR SIZE (SEE NOTE #1)

SEPARATELY DERIVED SYSTEM NEUTRAL TO GROUND BONDING AND EQUIPMENT GROUNDING DETAIL

TYPICAL ELECTRICAL PANEL DETAIL

GROUNDING ELECTRODE SYSTEM DETAIL

CONCRETE ENCASED ELECTRODE DETAIL

eco²
electricalengineeringcompany
engineering⁴tomorrow

eco²
electricalengineeringcompany
engineering4tomorrow

E3.4 SCALE: NO SCALE

Alsea Schools

| | | | | | | | | | | | | | |
|-------------------------------|-----|---|---|---|----|-----|---|---|---|------------|-------------|------------|-------------|
| TOTAL (NEW) | | 9 | 4 | 0 | 17 | 324 | 3 | 0 | 0 | 355 | 987 | 352 | 977 |
| EXISTING DEMAND KW: | 125 | | | | | | | | | | | | |
| EXISTING DEMAND X 125%: | | | | | | | | | | 156.3 | 434 | 156.3 | 434 |
| TOTAL (NEW + EXISTING) | | | | | | | | | | 512 | 1420 | 508 | 1410 |

Fault Current at Service Equipment

***MAXIMUM AVAILABLE FAULT CURRENT TO BE FIELD MARKED ON SERVICE EQUIPMENT PER NEC 110.24(A).

AVAILABLE FAULT CURRENT AT TERMINALS OF MAIN DISCONNECT =
MAIN SERVICE DISCONNECT AIC RATING:

42,269
65 K amperes

SERIES RATED EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C. , AND SERIES RATED COMBINATIONS SHALL BE LISTED BY UNDERWRITERS LABORATORIES

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e2co project #: 21048