

# ALSEA SCHOOL DISTRICT

## POWER SERVICE INFRASTRUCTURE UPGRADE

### PHASE 1a.2

98% BID & AGENCY REVIEW ISSUE: 11-11-2021

#### SHEET SCHEDULE:

A0.0 Cover Sheet

#### ARCHITECTURAL

A0.2 Phasing Site Plan  
A0.4 Architectural Site Plan

#### ELECTRICAL

E0.0 Electrical Symbols & Sheet Index  
E1.0D Electrical Site Plan - Demolition  
E1.0E Electrical Site Plan - New  
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



301 SOUTH 3rd STREET  
ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT  
1a.2: POWER SERVICE UPGRADE



CB Const, Inc.  
CB Construction  
1202 Adams Avenue  
LaGrande, OR 97850



STRAIGHTLINE  
ARCHITECTURE

4521 South Cloverdale Road  
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Date: 8-6-2021  
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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:

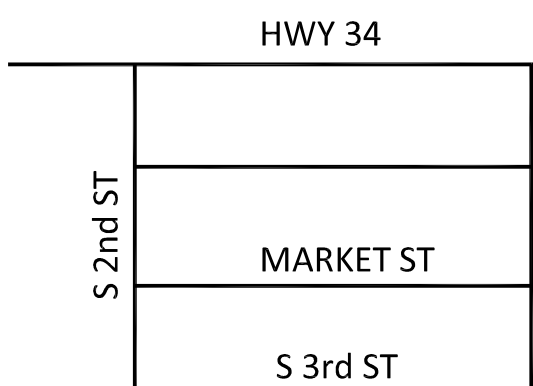


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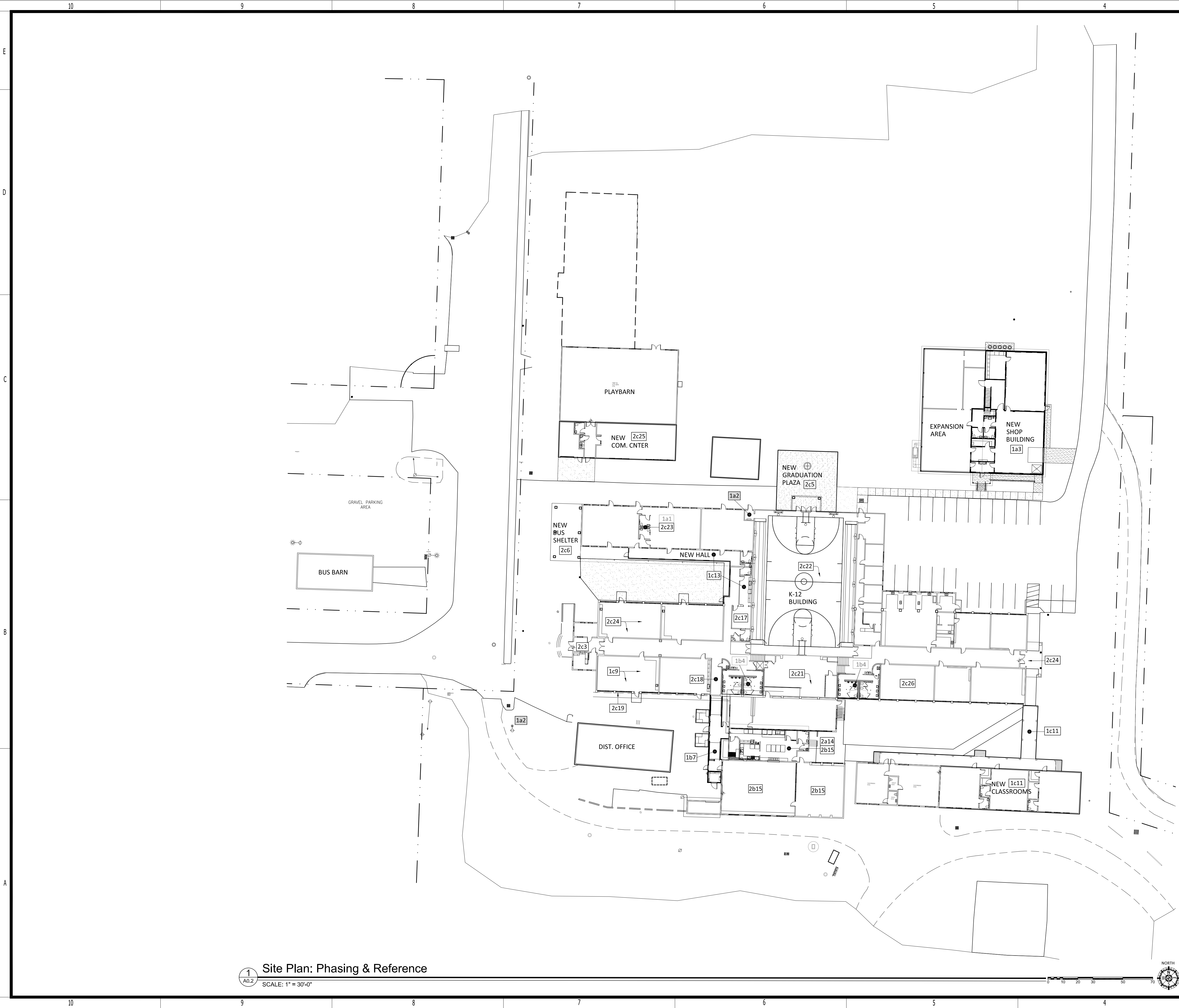
E2CO  
800 S. Industry Way, Suite 350  
Meridian, Idaho 83642

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

#### VICINITY MAP:



PROJECT SITE:  
301 S 3rd ST.  
ALSEA, OR 97324



**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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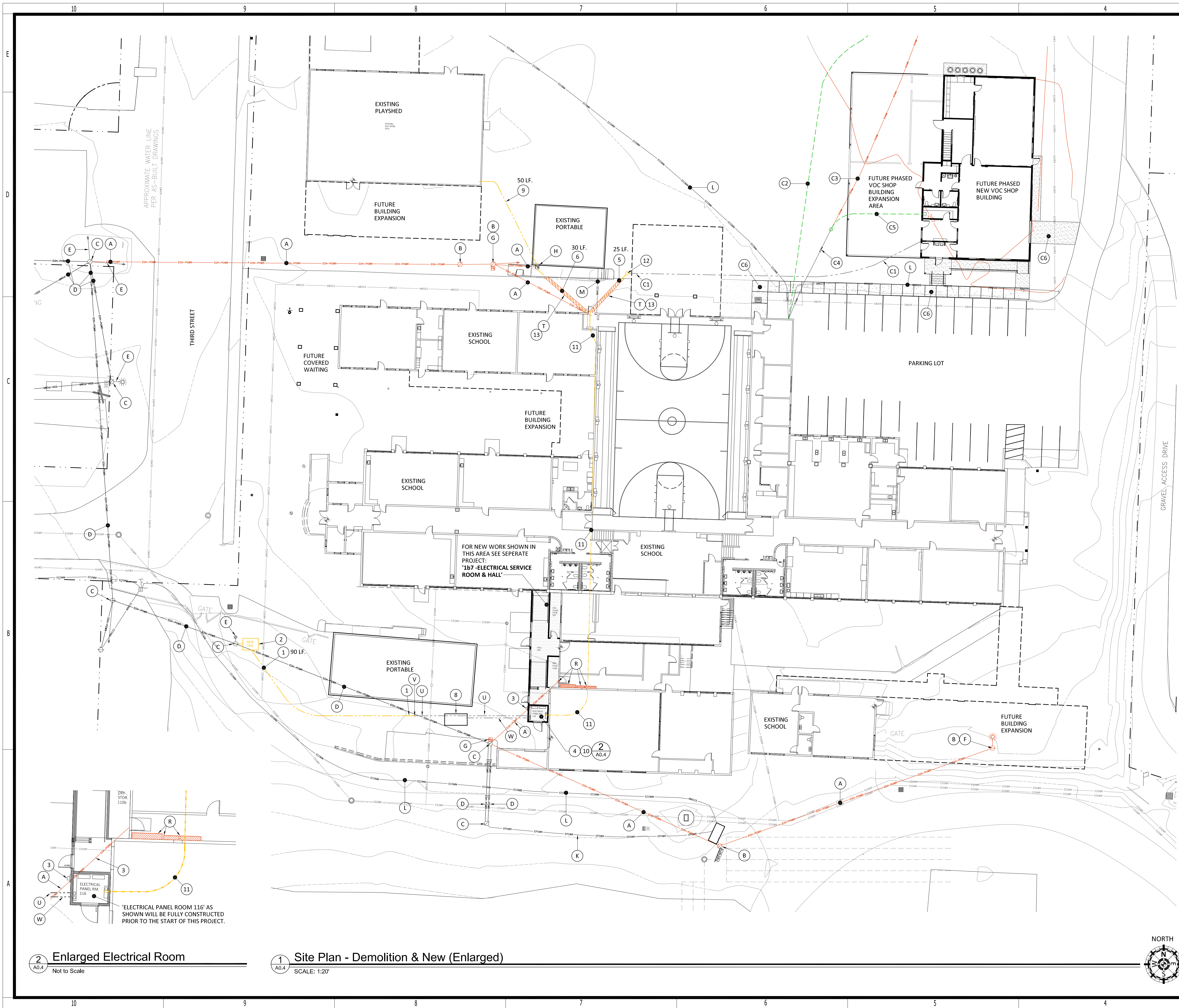
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A0.2  
PHASING SITE PLAN  
ELECTRICAL SERVICE UPGRADE



### 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)=#  
(NIC) Not in Contract  
(UNC) 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) (E) OVERHEAD POWER LINES - TO REMAIN, DO NOT DISTURB
- (E) (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 - BUILDING MOUNTED, REMOVE METER AND MAINTAIN BOX FOR NEW UNDERGROUND CONNECTION FROM MAIN SCHOOL BUILDING AND DISTRIBUTION TO PLAY SHED.
- (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 PHASE
- (R) (D) EXISTING SERVICE POWER PANELS - DEMOLISH PANELS AND ROOF TOP WEATHER HEAD ONCE NEW PANELS ARE IN PLACE AND ARE READY TO BE ENERGIZED, REPAIR ROOF PENETRATION, SEE ELECTRICAL SHEETS
- (T) (D) CUT PAVEMENT - DEMOLISH SAWCUT PAVEMENT FOR NEW UNDERGROUND CONDUIT.
- (U) (E) EMPTY CONDUIT - FOR POWER SERVICE CONDUCTORS.
- (V) CONDUIT INTERFACE POINT - CONNECT NEW SERVICE CONDUIT TO EXISTING CONDUIT AT LOCATION SHOWN.
- (W) (E) EMPTY CONDUIT - FOR BACK UP GENERATOR

#### NEW & RENNOVATED POWER

- (1) (N) SERVICE UNDERGROUND POWER CONDUIT & CONDUCTORS - 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) (N) ELECTRICAL ROOM - LOCATE MAIN SWITCHGEAR, PANELS, ETC. IN THIS AREA, SEE ELECTRICAL SHEETS.
- (5) (N) UNDERGROUND POWER CONDUIT - FROM GYMNASIUM TO FUTURE VOC BUILDING, STOP AND MARK CONDUIT AS INDICATED. SEE ELECTRICAL SHEETS.
- (6) (N) UNDERGROUND POWER CONDUIT & CONDUCTORS - FROM BUILDING TO EXISTING METER BOX (METER REMOVED) ON PORTABLE CLASSROOM
- (7) UNDERGROUND CONDUIT TO EMERGENCY GENERATOR LOCATION - SEE ELECTRICAL
- (8) (N) EMERGENCY GENERATOR LOCATION - (FUTURE) SIZE & CAPACITY TO BE DETERMINED.
- (9) (N) UNDERGROUND POWER CONDUIT & CONDUCTORS - FROM METER BOX (METER REMOVED) TO PLAYSHED
- (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.
- (13) PATCH PAVEMENT - PATCH BACK PAVEMENT AS REQUIRED.
- (12) INTERFACE NEW & EXISTING CONDUIT - CONNECT NEW CONDUIT TO EXISTING EMPTY CONDUIT FROM PREVIOUS PROJECT.

### 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:

- (C1) FUTURE UNDERGROUND POWER CONDUIT - TO FUTURE VOC BUILDING
- (C2) NEW FIBER OPTIC ROUTE - EXISTING FIBER OPTIC LINE FROM STREET TO BE REROUTED IN FUTURE PHASE WORK
- (C3) ABANDON EXISTING FIBER OPTIC CONDUIT - EXISTING FIBER OPTIC LINE TO BE ABANDONED IN FUTURE PHASED WORK
- (C4) MAINTAIN EXISTING FIBER OPTIC CONDUIT - RE-USE EXISTING FIBER OPTIC CONDUIT FOR FUTURE PHASED WORK.
- (C5) FUTURE NEW FIBER OPTIC CONDUIT - INTERFACED WITH EXISTING CONDUIT TO BE RUN TO FUTURE VOC BUILDING.
- (C6) FUTURE SIDEWALK / ASPHALT - TO BE CONSTRUCTED IN FUTURE PHASED WORK

2 A0.4 Enlarged Electrical Room  
Not to Scale

1 A0.4 Site Plan - Demolition & New (Enlarged)  
SCALE: 1:20'



301 SOUTH 3rd STREET  
ALSEA, OREGON 97224

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


































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DRAWING NO.  
**A0.4**  
Enlarged Architectural Site  
SITE PLAN

ELECTRICAL ABBREVIATIONS	
A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AMP TRIP	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
FVR	FULL VOLTAGE REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
HH	HANDHOLE
HID	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
JJB	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
NC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
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
TR	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

LIGHTING SYMBOLS see luminaire schedule for mounting and fixture type	
	2'x4' ARCHITECTURAL LUMINAIRE
	2'x4' PARABOLIC LUMINAIRE
	2'x4' LUMINAIRE
	2'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	1'x4' LUMINAIRE
	1'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	6'x4' LUMINAIRE
	6'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	2'x2' PARABOLIC LUMINAIRE
	2'x2' 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 FUTURE. <b>DO NOT CUT OFF EXCESS AIRCRAFT CABLE.</b> 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 FUTURE. <b>DO NOT CUT OFF EXCESS AIRCRAFT CABLE.</b> 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
	PHOTOCELL
	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 →	LAMP TYPE AND NUMBER TO DIFFERENT LUMINAIRE E-DESIGNATES FIXTURE WITH BODINE 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.	

ELECTRICAL DEVICE SYMBOLS	
see electrical specifications for further 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.
	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	KEYED
LV	LOW VOLTAGE
M	MOMENTARY CONTACT
OV	OVERRIDE
OC	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 SENSORS TO BE PROVIDED WITH MANUAL 'ON' OPERATION.
P	PILOT LIGHT
T	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
#	SUPERScript INDICATES LIGHTS TO BE SWITCHED
	MOTOR STARTER/CONTRACTOR 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

## ONE LINE SYMBOLS

see electrical specifications for further information

ATS  
#A  
#P

AUTOMATIC TRANSFER SWITCH; SIZE AND POLES AS INDICATED ON DRAWING

#A  
#P

CIRCUIT BREAKER; SIZE AND POLES AS INDICATED ON DRAWING

PANEL

PANELBOARD; NAME, SIZE, TYPE AS INDICATED ON DRAWINGS

PAD MOUNTED TRANSFORMER BY LOCAL UTILITY

METER

GROUND BAR

SECTOR SWITCH

**CIRCUITING SYMBOLS**  
see electrical specifications for further information

**LINE TYPES**

----	EXISTING
- - - - -	DEMOLITION
— · — · —	FUTURE
————	NEW

**ELECTRICAL DRAWING SHEET INDEX**

E.0	ELECTRICAL SYMBOLS AND SHEET INDEX
E.1.0D	ELECTRICAL SITE DEMOLITION PLAN
E.1.0E	ELECTRICAL SITE PLAN
E.3.0	SITE DEMOLITION POWER DISTRIBUTION PLAN
E.3.1	SITE - NEW POWER DISTRIBUTION PLAN
E.3.2	EXISTING/DEMOLITION ONE LINE DIAGRAM
E.3.3	NEW ONE LINE DIAGRAM
E.3.4	ELECTRICAL SCHEDULES

REGISTERED PROFESSIONAL  
ENGINEER  
944052-PE-51  
9/28/01  
OREGON  
AUG. 09, 2003  
JON W. VAN STONE

EXPIRATION DATE: 6/30/02

ALSEA SD - NEW VOC SHOP BUILDING  
& POWER SERVICE INFRASTRUCTURE

STAND ALONE BUILDING &  
CAMPUS POWER INFRASTRUCTURE IMPROVEMENT



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ALL 2a  
1a 2b  
1b 2c  
1c 2d

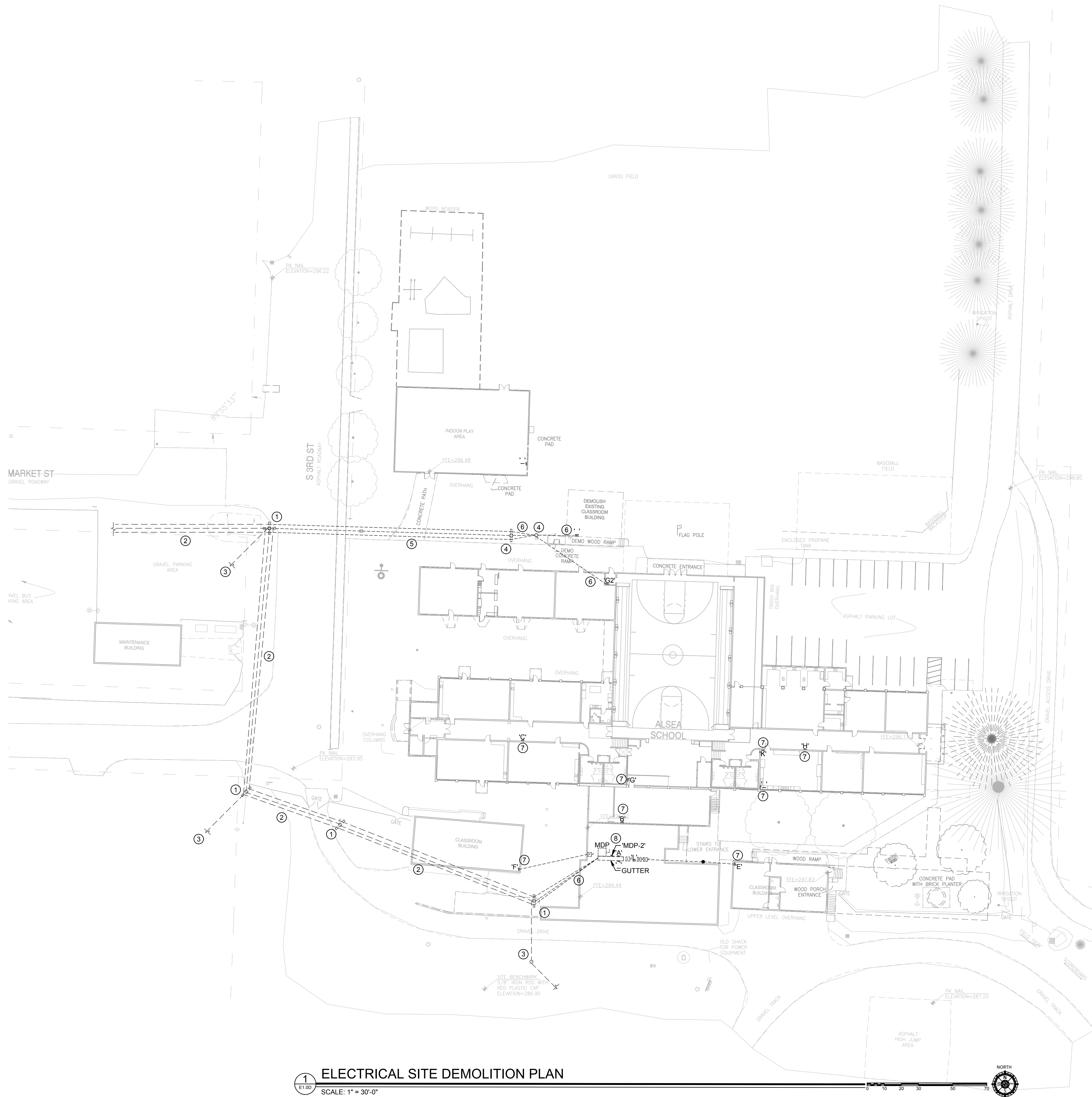
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# E0.0

ELECTRICAL SYMBOLS AND  
SHEET INDEX



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 BY LOCAL UTILITY COMPANY. ALL WORK SHALL BE COORDINATED WITH THE 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 ONELINE DIAGRAM ON SHEET E3.3 FOR RE-FEEDING THE PANELS THAT ARE EXISTING TO REMAIN.



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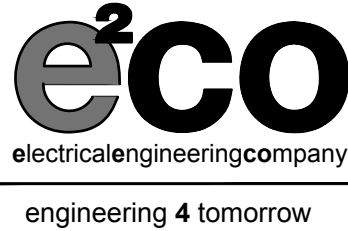
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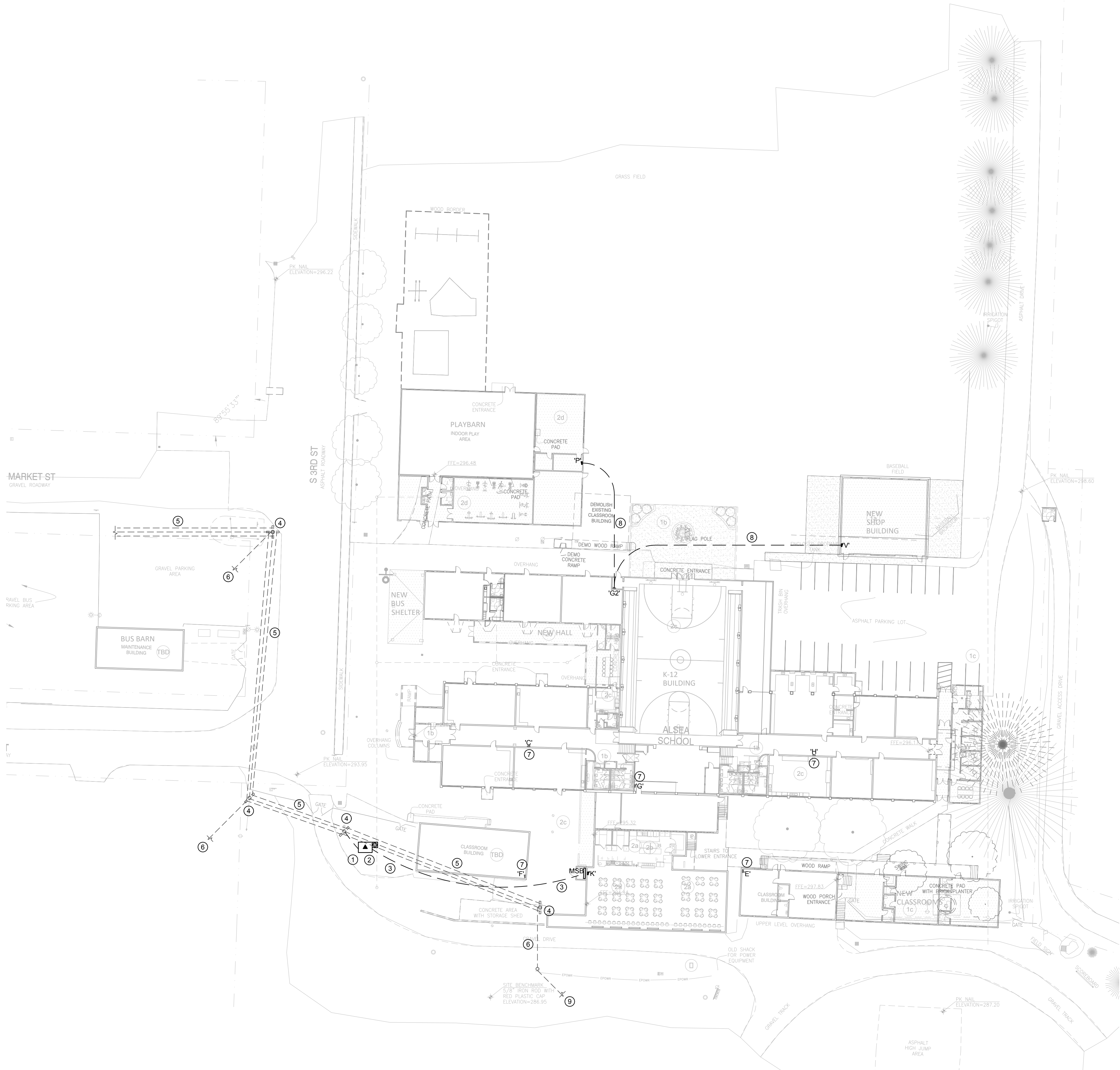
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**E1.0D**  
ELECTRICAL SITE  
DEMOLITION PLAN

**ELECTRICAL SITE DEMOLITION PLAN**  
SCALE: 1" = 30'-0"



world wide web: e2co.com  
800 s. industry way, suite 350  
meridian, idaho 83642  
phone: 208.378.4450  
fax: 208.378.4451  
e2co project #: 21048

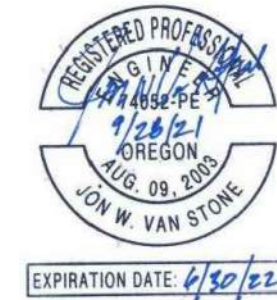


### GENERAL NOTES:

- 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 BY 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, PAD AND METER 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 V. SEE ONELINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
- EXISTING UNDERGROUND FEEDERS TO EXISTING FOOTBALL FIELD BRANCH CIRCUITING TO REMAIN.



## ALSEA SD - NEW VOC SHOP BUILDING & POWER SERVICE INFRASTRUCTURE

STAND ALONE BUILDING & CAMPUS POWER INFRASTRUCTURE IMPROVEMENT

### ALSEA SCHOOL DISTRICT



### STRAIGHTLINE ARCHITECTURE

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1c 2d

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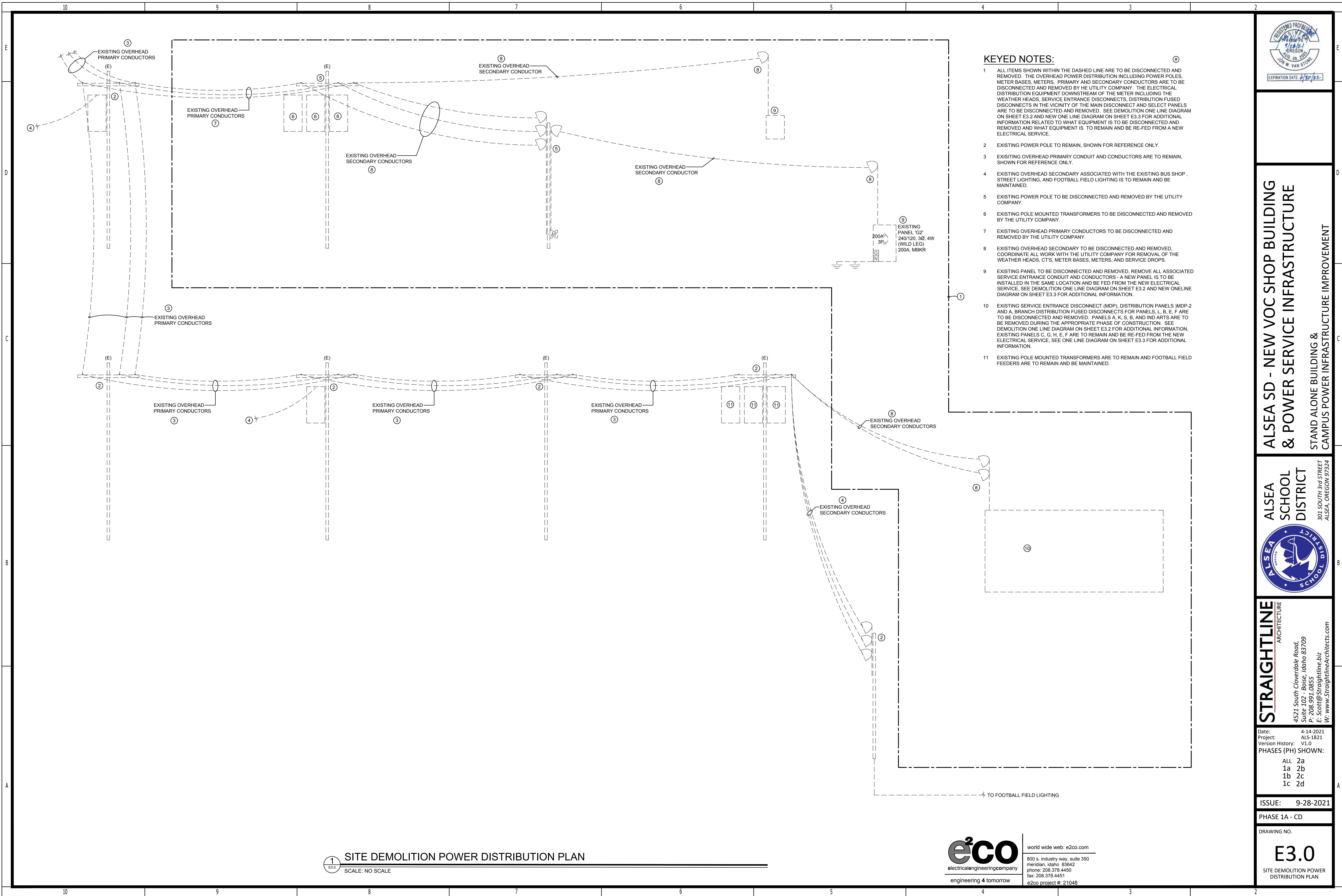
# E1.0E

ELECTRICAL SITE PLAN

**1**  
E1.0E  
**ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"



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KEYED NOTES:

- 1 ALL ITEMS SHOWN WITHIN THE DASHED LINE ARE TO BE DISCONNECTED AND REMOVED. THE OVERHEAD POWER DISTRIBUTION INCLUDING POWER POLES, METER BASES, METERS, PRIMARY AND SECONDARY CONDUCTORS ARE TO BE DISCONNECTED AND REMOVED BY THE 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 CONDUIT AND 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 ONE LINE DIAGRAM ON SHEET E3.3 FOR ADDITIONAL INFORMATION.
- 10 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.
- 11 EXISTING POLE MOUNTED TRANSFORMERS ARE TO REMAIN AND FOOTBALL FIELD FEEDERS ARE TO REMAIN AND BE MAINTAINED.



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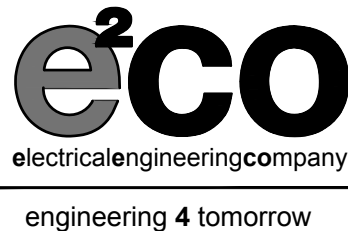
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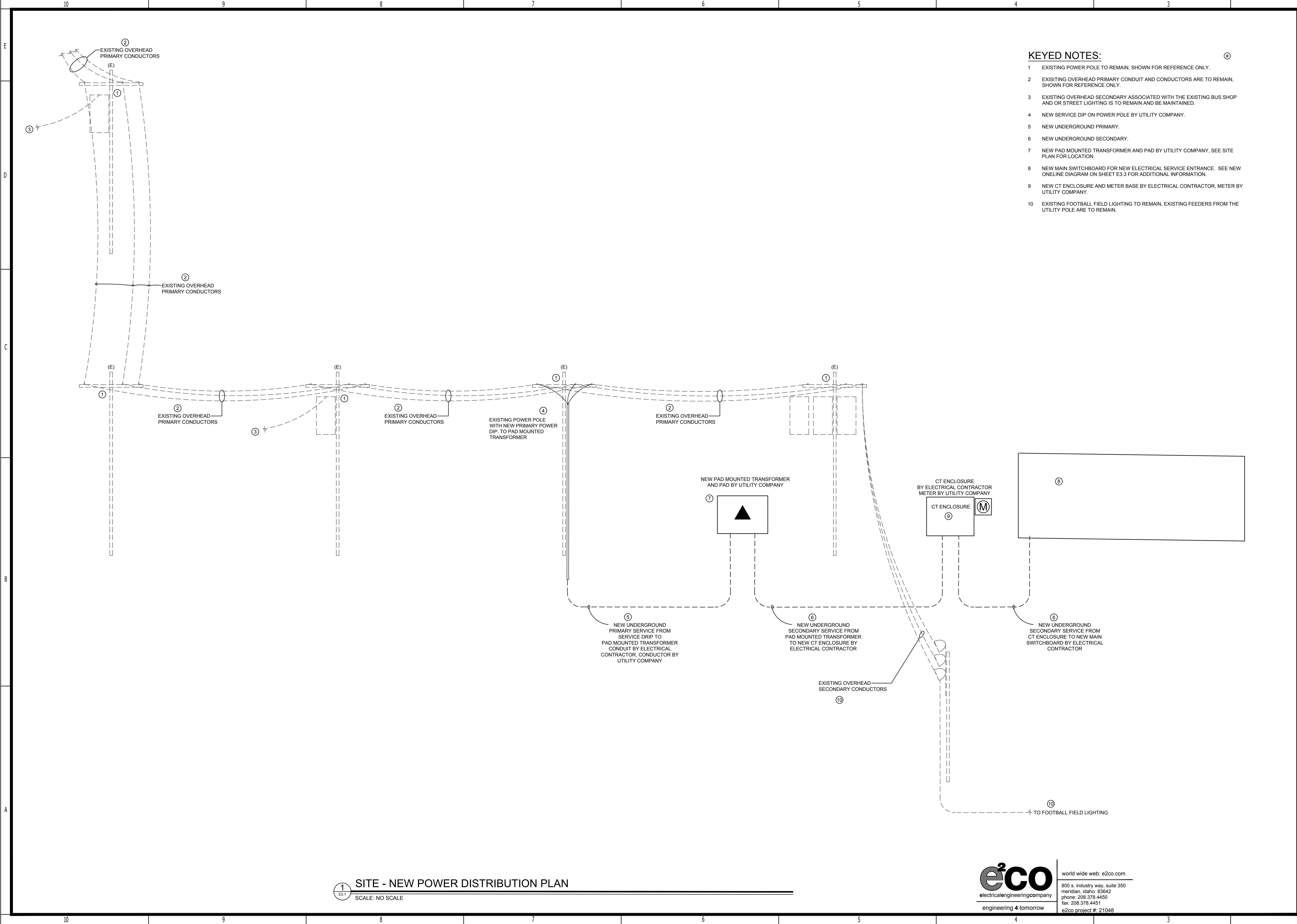
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E3.0

SITE DEMOLITION POWER  
DISTRIBUTION PLAN




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meridian, idaho 83642  
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e2co project #: 21048





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STAND ALONE BUILDING & CAMPUS POWER INFRASTRUCTURE IMPROVEMENT

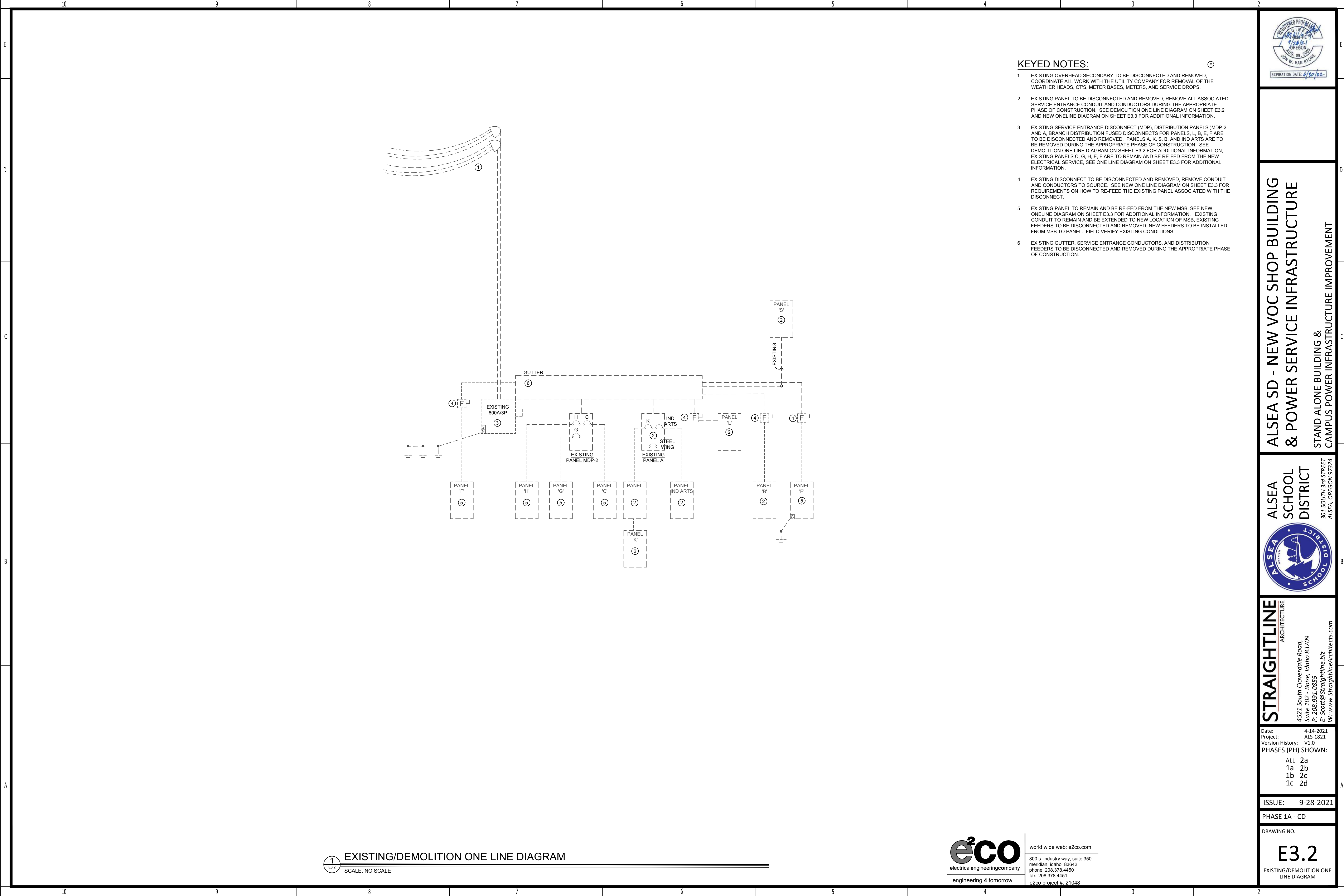


**ALSEA SCHOOL DISTRICT**  
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ALSEA, OREGON 97124

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**E3.1**  
SITE - NEW POWER DISTRIBUTION PLAN



KEYED NOTES:

- 1 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.
- 2 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.
- 3 EXISTING SERVICE ENTRANCE DISCONNECT (MDP), DISTRIBUTION PANELS (MDP-2 AND A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) 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.
- 4 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.
- 5 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.
- 6 EXISTING GUTTER, SERVICE ENTRANCE CONDUCTORS, AND DISTRIBUTION FEEDERS TO BE DISCONNECTED AND REMOVED DURING THE APPROPRIATE PHASE OF CONSTRUCTION.



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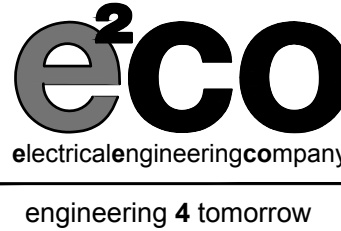
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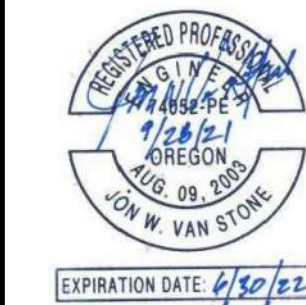
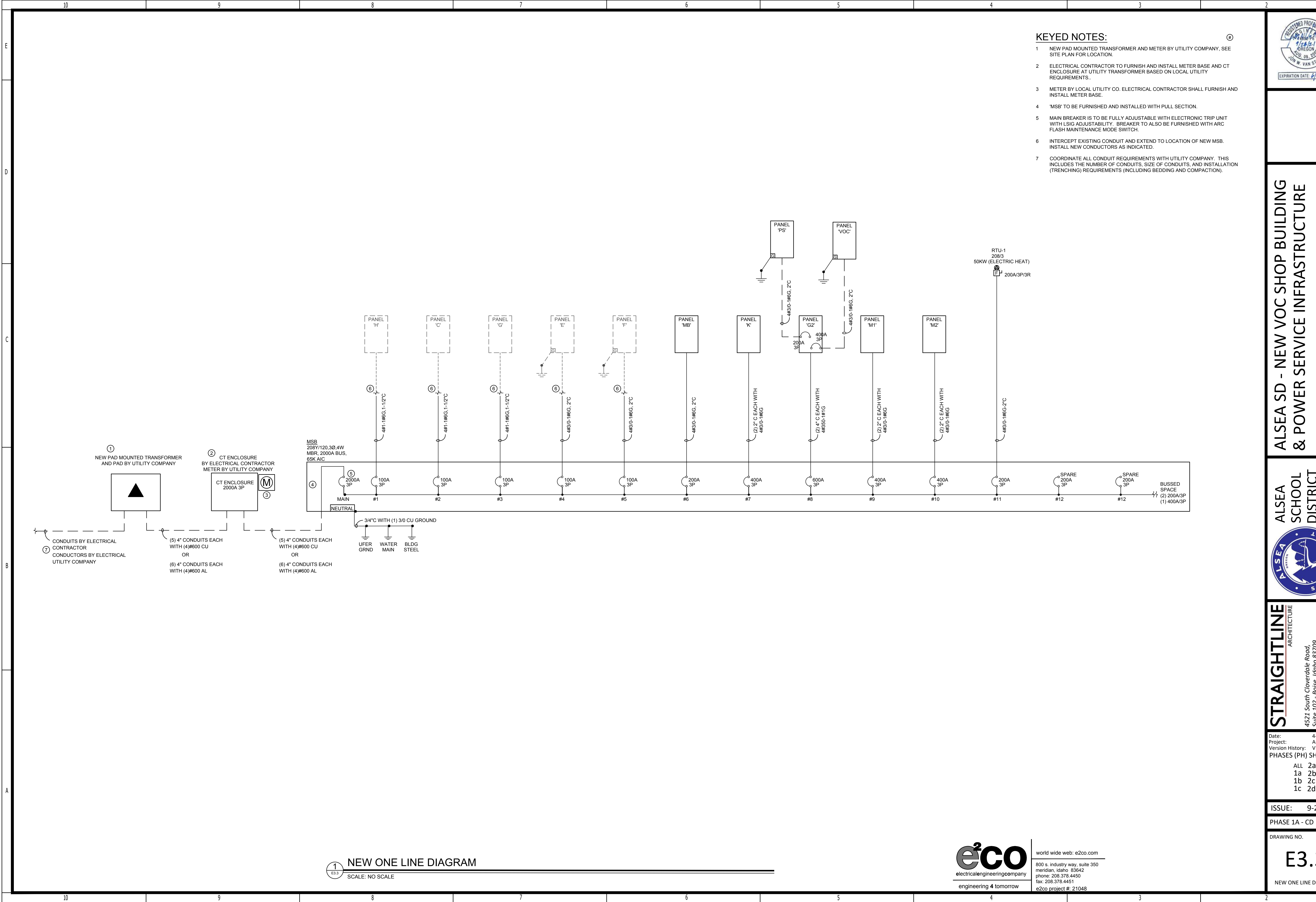
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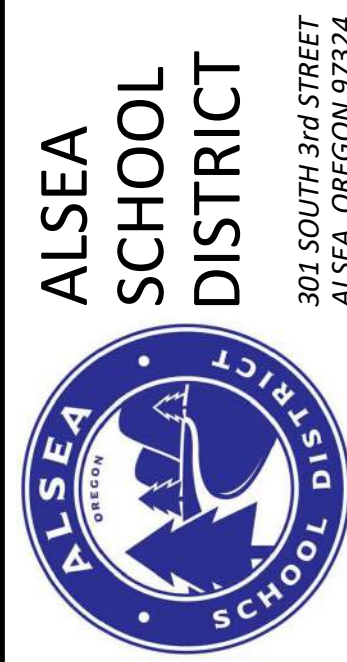
EXISTING/DEMOLITION ONE  
LINE DIAGRAM



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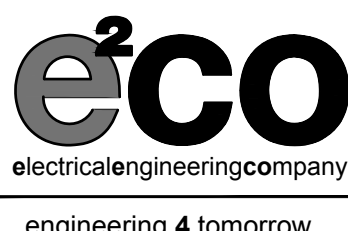
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**E3.3**

NEW ONE LINE DIAGRAM



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ELECTRICAL LOAD SUMMARY - MSB (ESTIMATED LOADS)

Alsea Schools

PANEL AND/OR EQUIPMENT	VOLTAGE	ELECTRICAL LOAD (KVA)								CONNECTED LOAD		DEMAND LOAD	
		LIGHTING	REC.	MOTORS	KITCHEN	HVAC	NON-CONT.	ELEC. HEAT	CONT.	KVA	AMPS	KVA	AMPS
PANEL VOC (NEW)	208Y/120	4.50	11.88	-	-	38.40	28.80	-	-	83.6	232	83.8	233
PANEL PS (NEW)	208Y/120	3.00	6.30	-	-	72.00	4.80	-	-	86.1	239	86.9	241
PANEL MB (NEW)	208Y/120	2.40	3.78	-	-	19.20	2.50	-	-	27.9	77	28.5	79
PANEL K (NEW)	208Y/120	8.64	-	-	16.50	91.80	2.50	-	-	119.4	332	115.8	321
PANEL M1 (NEW)	208Y/120	-	1.80	-	-	86.40	-	-	-	88.2	245	88.2	245
PANEL M2 (NEW)	208Y/120	-	1.80	-	-	96.00	-	-	-	97.8	271	97.8	271
PANEL H (EXISTING)	208Y/120	-	-	-	-	-	-	-	-	0.0	0	0.0	0
PANEL C (EXISTING)	208Y/120	-	-	-	-	-	-	-	-	0.0	0	0.0	0
PANEL G (EXISTING)	208Y/120	-	-	-	-	-	-	-	-	0.0	0	0.0	0
PANEL E (EXISTING)	208Y/120	-	-	-	-	-	-	-	-	0.0	0	0.0	0
PANEL F (EXISTING)	208Y/120	-	-	-	-	-	-	-	-	0.0	0	0.0	0
RTU-1 (GYM)	208	-	-	-	-	50.00	-	-	-	50.0	139	50.0	139

TOTAL (NEW)		19	26	0	17	454	39	0	0	553	1535	544	1510
EXISTING DEMAND KW:	98												
EXISTING DEMAND X 125%:										122.5	340	122.5	340
TOTAL (NEW + EXISTING):										676	1875	667	1850

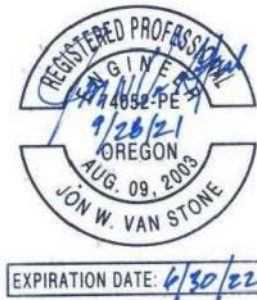
MAIN SERVICE DISCONNECT/EQUIPMENT RATING:	2000 AMPS	OCPD RATING	STANDARD RATED	✓
Fault Current at Service Equipment				

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

AVAILABLE FAULT CURRENT AT TERMINALS OF MAIN DISCONNECT = 42,269 amperes  
MAIN SERVICE DISCONNECT AIC RATING: 65 K

NEC DEMAND FACTORS				
LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)	
LIGHTING	18,540	125%	23,175	
RECEPTACLES	25,560	-	17,780	FIRST 10,000VA AT 100% + REMAINDER OVER 10,000VA AT 50%
MOTORS	0	-	0	125% OF LARGEST MOTOR + 100% OF ALL OTHER MOTORS
KITCHEN EQUIPMENT	16,500	65%	10,725	1-2 UNITS=100%, 3 UNITS=90%, 4 UNITS=80%, 5 UNITS=70%, >=6 UNITS=65%
HVAC EQUIPMENT	453,801	100%	453,801	>6 UNITS
NON-CONTINUOUS LOADS	38,600	100%	38,600	
ELECTRIC HEAT	0	125%	0	
CONTINUOUS LOADS	0	125%	0	
TOTALS	553,001	98%	544,081	VA

\*\*\*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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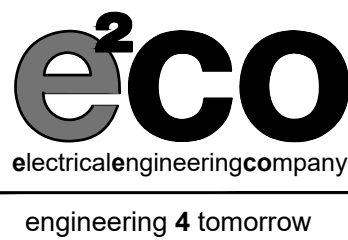
E3.4

ELECTRICAL SCHEDULES

1  
E3.4

ELECTRICAL SCHEDULES

SCALE: NO SCALE



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