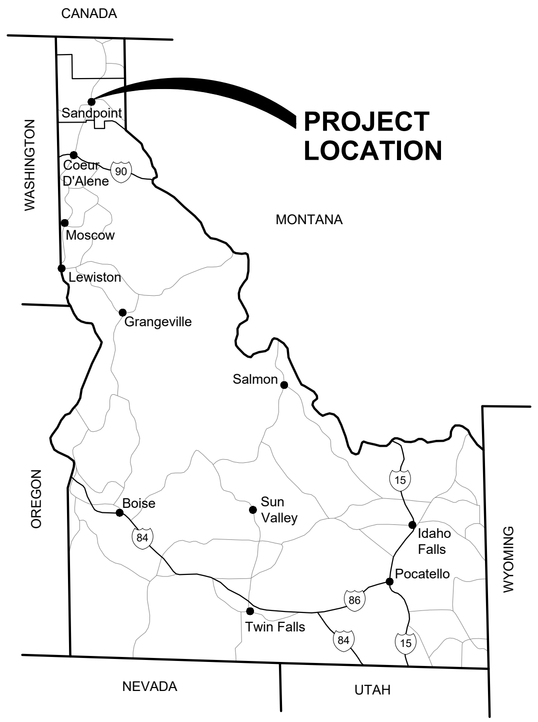
PROJECT:	4-21115
DATE:	FEBRUARY 2023

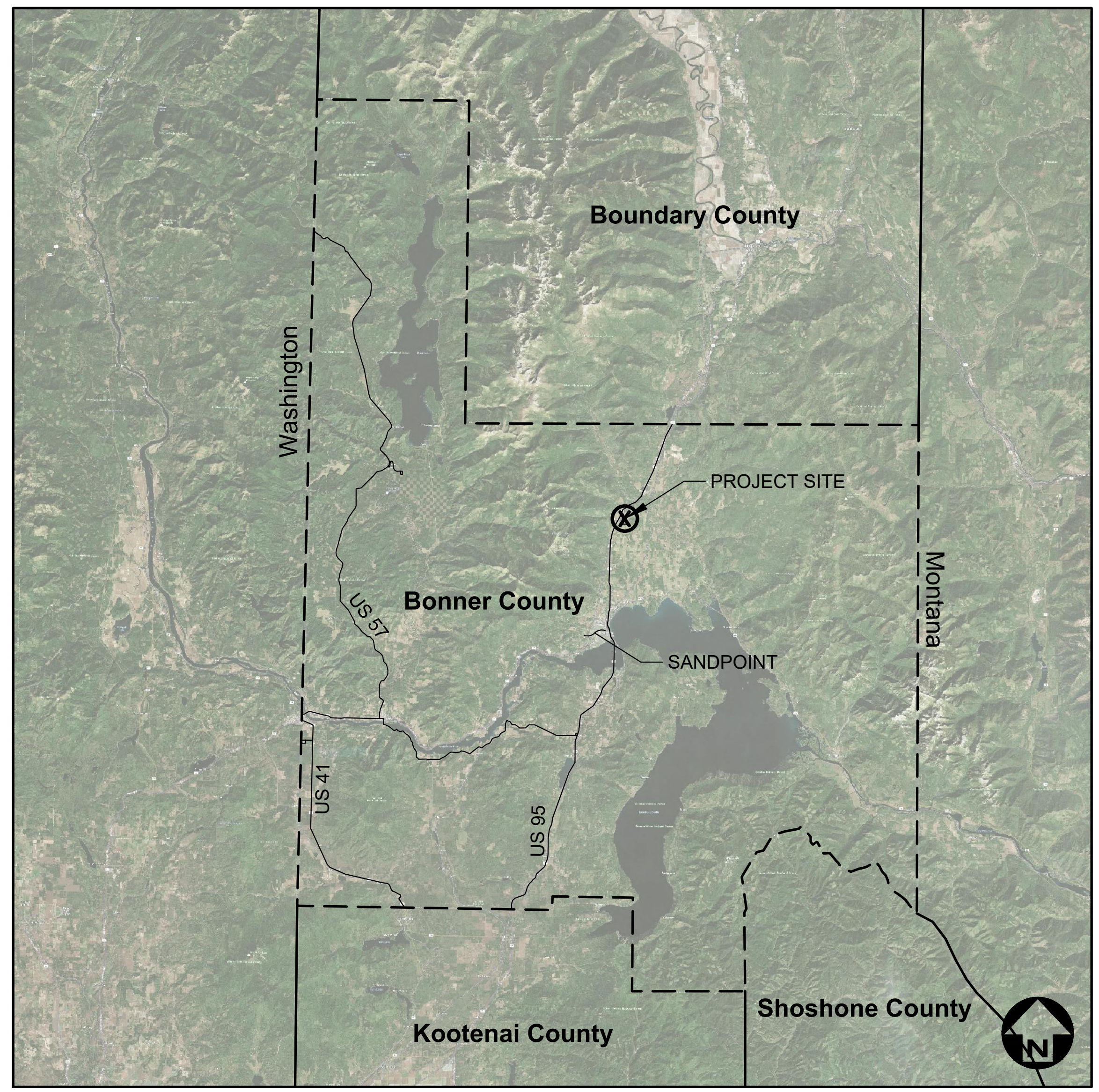
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS

CONTRACT NO. SW023-2023

CONSTRUCTION DRAWINGS



COUNTY OVERVIEW MAP



NOT TO SCALE

PLANS PREPARED FOR:

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PROFESSIONAL ENGINEER REGISTERED 11535 STATE OF IDAHO TRAVIS A. PYLE

02-14-2023

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KARTCHNER ENGINEERING
Mechanical and Plumbing Design

AEI Engineering Incorporated
1038 W. Davidson Avenue | Coeur d'Alene, ID 83814
208.666.4001 | Fax 208.666.4021 | www.aei-engineering.com

NO.	REVISION DESCRIPTION	BY	DATE
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SET NO.

SHEET NO.

G100

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\4-21115-G100-COVER.dwg

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PROJECT NOTES:

1. SURVEYS PROVIDED BY HMH, OCTOBER 2021.
2. SURVEY BASED ON IDAHO STATE PLANES COORDINATE SYSTEM, AND NAD 83 VERTICAL DATUM.
3. THE COLBURN SITE SHALL REMAIN IN OPERATION THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
4. UNLESS MODIFIED OR SHOWN OTHERWISE IN THE CONTRACT, WORK SHALL CONFORM TO THE IDAHO SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS (ISPWC), ALSO REFERRED TO AS "STANDARD SPECIFICATIONS".
5. EXISTING UNDERGROUND UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS APPROXIMATE AND MAY BE INCOMPLETE. FOR ACCURATE LOCATION, THE CONTRACTOR SHALL CONTACT, PRIOR TO EXCAVATION, THE UTILITIES UNDERGROUND LOCATION CENTER AT: 1-800-424-5555 AND COORDINATE WITH OWNER.
6. CONTRACTOR IS RESPONSIBLE FOR ALL EROSION/SEDIMENT CONTROL AND STORMWATER MANAGEMENT OF THE CONSTRUCTION SITE THROUGH THE ENTIRE DURATION OF THE PROJECT.
7. CONTRACTOR SHALL ENSURE THAT VEHICLES LEAVING THE SITE DO NOT TRACK MUD OR OTHER DEBRIS ONTO PUBLIC ROADWAYS.
8. ALL WATER LINES SHALL BE BURIED A MINIMUM OF 5'.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MLL
DRAWN: AMR
CHECKED: MLL
APPROVED: TAP
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 11535 STATE OF IDAHO TRAVIS PYLE
02-14-2023

GreatWest ENGINEERING
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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
SHEET INDEX AND GENERAL PROJECT NOTES

SHEET NO.
G101

ABBREVIATIONS

@	AT
Δ	ANGLE OF DEFLECTION, DELTA ANGLE
<PT	ANGLE POINT
AB	ANCHOR BOLT
ABDN	ABANDON
AC	ASBESTOS CONCRETE
ADDN	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
APVD	APPROVED
ARCH	ARCHITECTURE, ARCHITECTURAL
ASPH	ASPHALT
AVE	AVENUE
AVG	AVERAGE
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLK	BLOCK
BLVD	BOULEVARD
BM	BEAM, BENCHMARK
BOT	BOTTOM
BRG	BEARING
BRKT	BRACKET
BVC	BEGIN VERTICAL CURVE
C–C	CENTER TO CENTER
CHAN	CHANNEL
CHK	CHECK
CI	CAST IRON
CIPC	CAST–IN–PLACE CONCRETE
CIRC	CIRCULAR
CJ	CONSTRUCTION JOINT, CONTROL JOINT
℄	CENTER LINE
CLR	CLEAR, CLEARANCE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNITS
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUE, CONTINUED, CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CP	CONTROL PANEL, CONTROL POINT
CPLG	COUPLING
CTR	CENTER
CTV	CABLE TELEVISION
CU	CUBIC, COPPER
CF	CUBIC FEET
CULV	CULVERT
CY	CUBIC YARD
DET	DETAIL
DI	DUCTILE IRON, DRAIN INLET
DIA, ⌀	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DR	DRIVE
DWG	DRAWING
E	EAST
EA	EACH
EL, ELEV	ELEVATION
ELB	ELBOW
ELEC	ELECTRIC, ELECTRICAL
ENCL	ENCLOSE
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EQ	EQUAL, EQUALLY
EQ SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EVC	END VERTICAL CURVE
EW	EACH WAY
EXC	EXCAVATE
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXST	EXISTING
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FES	FLARED END SECTION
FET	FLARED END TERMINAL
FF	FINISHED FLOOR
FG	FINISH GRADE
FHYD	FIRE HYDRANT
FJ	FLANGE JOINT
FL	FLOW LINE
FLEX	FLEXIBLE
FM	FORCEMAIN
FT	FOOT, FEET
FO	FIBER OPTIC
FTG	FOOTING, FITTING
G	NATURAL GAS
GA	GAGE, GAUGE
GAL	GALLON
GALV	GALVANIZED
GND	GROUND
GVL	GRAVEL
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
HOR, HORIZ	HORIZONTAL
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
JB	JUNCTION BOX
JT	JOINT
K	RATE OF VERTICAL CURVATURE
LBS	POUNDS
LF	LINEAR FEET
LN	LANE
LPG	LIQUID PROPANE GAS
LT	LEFT
MAX	MAXIMUM
MD	MEASURE DOWN
MFD	MANUFACTURED
MFR	MANUFACTURE, MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MOV	MOTOR OPERATED VALVE
MPWSS	MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS
N	NORTH
NE	NORTHEAST
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OH	OVERHEAD
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
OPNG	OPENING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	PLAIN END, POLYETHYLENE
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
ℙ	PROPERTY LINE
PNL	PANEL
PRC	POINT OF REVERSE CURVATURE
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PREP	PREPARE, PREPARATION
PROP	PROPERTY
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT, POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R, RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDCR	REDUCER
REBAR	REINFORCEMENT BAR
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RET	RETAINING
RR	RAILROAD
RST	REINFORCING STEEL
RT	RIGHT
R/W	RIGHT–OF–WAY
S	SOUTH, SANITARY SEWER
SAN	SANITARY
SCH	SCHEDULE
SD	STORM DRAIN
SDWK	SIDEWALK
SE	SOUTHEAST
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SLP	SLOPE
SPEC	SPECIFICATION
SQ	SQUARE
SSTL	STAINLESS STEEL
STA	STATION
SS	SANITARY SEWER SERVICE
STD	STANDARD
ST	STREET
STL	STEEL
STRUCT	STRUCTURE
SW	SOUTHWEST
SYM	SYMMETRICAL
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK
TEL	TELEPHONE
TEMP	TEMPORARY
THRU	THROUGH
TYP	TYPICAL
UG	UNDERGROUND
UGP	UNDERGROUND POWER
UGT	UNDERGROUND TELEPHONE
UTIL	UTILITY
V	VALVE, VOLT
VB	VALVE BOX
VERT	VERTICAL
VOL	VOLUME
W	WEST, WATER
WTR	WATER
WD	WOOD
W/	WITH
W/O	WITHOUT
WL	WETLAND
WM	WIRE MESH, WATER METER
WS	WATERSTOP, WATER SURFACE, WATER SERVICE
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XFMR	TRANSFORMER
X–ING	CROSSING
XS	CROSS SECTION
YD	YARD

LEGEND

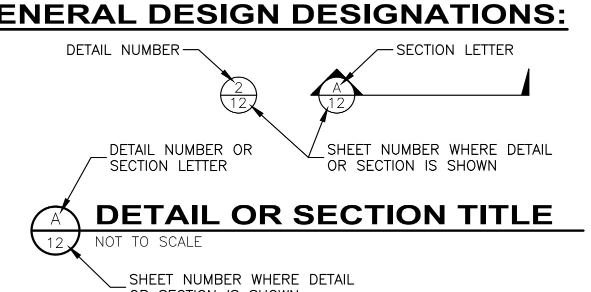
EXISTING	PROPOSED	DESCRIPTION
		MAJOR CONTOUR
		MINOR CONTOUR
OHT	OHT	OVERHEAD TELEPHONE
UGT	UGT	UNDERGROUND TELEPHONE
CTV	CTV	CABLE TELEVISION
FO	FO	FIBER OPTIC
G	G	NATURAL GAS
OHP	OHP	OVERHEAD POWER
UGP	UGP	UNDERGROUND POWER
S	S	SANITARY SEWER
SS SS	SS SS	SANITARY SEWER SERVICE
FM	FM	SANITARY SEWER FORCEMAIN
SD	SD	STORM DRAIN
		STORM CULVERT
W	W	WATER
WS WS	WS WS	WATER SERVICE
		CHAINLINK FENCE
X X X	X X X	BARBED WIRE FENCE
		WOOD FENCE
		PAVED ROAD
		GRAVEL ROAD
		PROPERTY/LOT LINE
		PROPERTY EASEMENT
		PROPERTY SETBACK
		RIGHT–OF–WAY
		CITY LIMIT/DISTRICT BOUNDARY
		RAILROAD
		DITCH
		WATER EDGE
WL		WETLAND
		BUILDING
		BENCHMARK
		CONTROL POINT
		PROPERTY PIN
		BORING
		MONITORING WELL
		TEST PIT
		BOLLARD
		MAIL BOX
		SIGN

EXISTING	PROPOSED	DESCRIPTION
		STUMP
		SHRUB/BUSH
		TREE–CONIFER
		TREE–DECIDUOUS
		TREE LINE
C	C	COMMUNICATION MANHOLE
C	C	COMMUNICATION VAULT
T	T	TELEPHONE RISER
TV	TV	CABLE TV RISER
		NATURAL GAS METER
G	G	NATURAL GAS RISER
		NATURAL GAS VALVE
		LIGHT POLE
		STREET LIGHT POLE
P	P	POWER RISER
		PAD MOUNTED TRANSFORMER
P	P	POWER VAULT
		UTILITY POLE
		GUY WIRE
S	S	SANITARY MANHOLE
CO	CO	SANITARY CLEANOUT
		SANITARY LAMPHOLE
ST	ST	STORM MANHOLE
		STORM ROUND INLET
		STORM SQUARE INLET
		STORM CATCH BASIN
		11.25° ELBOW
		22.50° ELBOW
		45° ELBOW
		90° ELBOW
		TEE
		CROSS
		CAP
		FIRE HYDRANT
		GATE VALVE
		REDUCER
		WATER METER
W	W	WELL
		CURB STOP
		FROST FREE HYDRANT

SHEET NOTES:

1. THIS IS A STANDARD CIVIL LEGEND AND ABBREVIATION LIST. THEREFORE, NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT.
2. REFER TO OTHER DISCIPLINE'S DRAWINGS FOR THEIR LEGENDS AND ABBREVIATIONS LISTS.
3. REFER TO APPENDIX 1 OF THE PROJECT MANUAL FOR THE GEOTECHNICAL REPORT.
4. SITE SURVEY OF ROADS, BUILDINGS, UTILITIES, AND PROPERTY BOUNDARIES PROVIDED BY HMH ENGINEERING, DECEMBER 2021. NAD 83, IDAHO WEST ZONE, STATE PLANE COORDINATE SYSTEM.

GENERAL DESIGN DESIGNATIONS:



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PROJECT: 4-21115
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PROFESSIONAL ENGINEER REGISTERED 11535 STATE OF IDAHO TRAVIS PYLE 02-14-2023

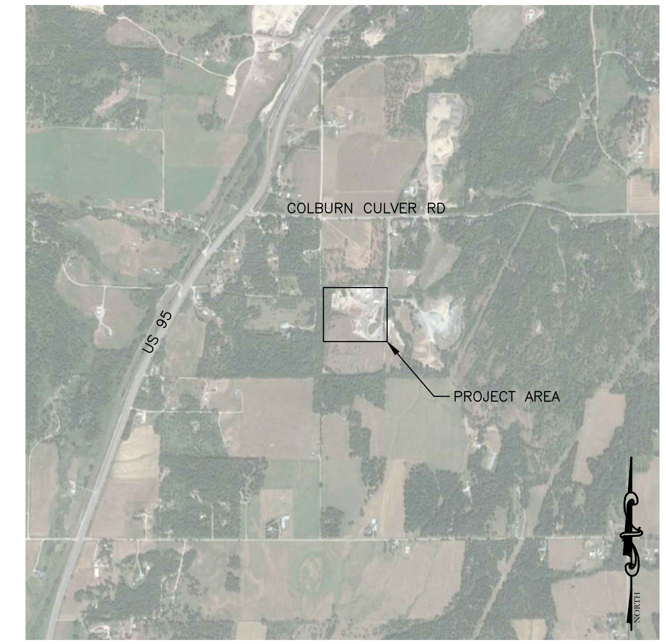
GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CIVIL LEGEND AND ABBREVIATIONS

SHEET NO.
C100

SHEET NOTES:

1. EXACT LIMITS OF CLOSED CAPPED LANDFILL ARE UNKNOWN BUT DO NOT EXTEND BEYOND STORMWATER DRAINAGE DITCH LOCATED ALONG THE NORTH SIDE.
2. REFER TO SHEET C102 FOR EROSION SEDIMENT CONTROL PLAN
3. REFER TO SHEET C103 FOR STAGING AND LAYDOWN PLAN
4. CP#9 IS OUTSIDE THIS SHEET LIMITS. REFER TO SURVEY CONTROL TABLE.



VICINITY MAP

SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2454682.74	2437284.51	2224.42	5/8" REBAR WITH RED PLASTIC CAP, MARKED "JUB ENGINEERS INC. CONTROL"
2	2454686.56	2437254.10	2226.24	MAG NAIL
9	2454576.48	2436172.07	2223.01	MAG NAIL
10	2453823.82	2436808.31	2231.32	5/8" REBAR WITH RED PLASTIC CAP, MARKED "JUB ENGINEERS INC. CONTROL"
11	2454263.91	2437174.53	2224.93	MAG NAIL WITH TAG

LEGEND

CONTROL POINT (CP)

NO.	REVISION DESCRIPTION	BY	DATE

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02-14-2023

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
OVERALL EXISTING SITE PLAN

SHEET NO.
C101

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SHEET NOTES:

THE PROPERTY OWNER IS BONNER COUNTY.

BOTH TEMPORARY AND PERMANENT STORMWATER EROSION CONTROL MEASURES ARE PROPOSED. OPERATION AND MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. OPERATION AND MAINTENANCE OF PERMANENT EROSION CONTROL MEASURES AFTER CONSTRUCTION ARE THE RESPONSIBILITY OF THE PROPERTY OWNER, EXCEPT FOR SOIL STABILIZATION WHICH IS THE CONTRACTOR'S RESPONSIBILITY UNTIL GROWTH IS ACHIEVED. SEE SPECIFICATIONS. REFER TO C105 FOR SOIL STABILIZATION AREAS (SEE ALSO DETAIL 1/C115.)

SILT FENCE MAINTENANCE:
- PERIODICALLY INSPECT FOR DAMAGE, SUCH AS TEARS, BROKEN LATHE, AND FENCE FALLING OVER. REPAIR ANY DAMAGE IMMEDIATELY.
- REMOVE SEDIMENT WHEN IT REACHES 2".
- REMOVE ALL SILT FENCE AFTER FINAL STABILIZATION OF THE SITE.

STABILIZED CONSTRUCTION ENTRANCE MAINTENANCE:
- THE ENTIRE AREA OF CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ANY ADJACENT STREET OR ROAD. CONSTRUCTION ENTRANCE MAY REQUIRE PERIODIC PLACEMENT OF ADDITIONAL AGGREGATE AS CONDITIONS DEMAND. SEE DETAIL 6/C115.
- WHENEVER SEDIMENT IS TRACKED ONTO ADJACENT PAVED SURFACES, STREET SWEEPING MUST BE UTILIZED IMMEDIATELY. STREET SWEEPING MAY NOT INCLUDE USE OF WATER TRUCKS OR POWER WASHING.
- IF NECESSARY TO REMOVE EXCESSIVE BUILD-UP, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO ADJACENT STREET OR ROAD. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED AT END OF PROJECT, OR JUST BEFORE PAVING OF DRIVEWAY APPROACH IF IT OVERLAPS WITH THE LOCATION OF THE CONSTRUCTION ENTRANCE. WHEN CONSTRUCTION ACTIVITIES CONTINUE AFTER THE REMOVAL OF THE CONSTRUCTION ENTRANCE, A STREET SWEEPING PROGRAM SHALL BE IMPLEMENTED, AND WHEEL WASHING SHALL BE IMPLEMENTED FOR ALL CONSTRUCTION VEHICLES LEAVING THE SITE.
- A CONSTRUCTION ENTRANCE(S) IS NOT SHOWN. THE SITE ACCESSES ARE PAVED IF DISTURBED OR MATERIAL IS TRACKING OFF PROPERTY PLACE THEM AS NECESSARY. COORDINATE WITH ENGINEER. REFER TO DETAIL 6/C115 FOR A CONSTRUCTION ENTRANCE DETAIL.
- CLEAN ALL MUD AND DIRT TRACKED OFF-SITE BY SWEEPING. SWEEP AT THE END OF EACH WORKING DAY IF OFF-SITE TRACKING OF MATERIAL OCCURS.

GRASS TREATMENT SWALE MAINTENANCE:
- THE TREATMENT SWALES SHOWN ON THE PLAN SHOULD BE ROUGH-GRADED AT THE BEGINNING OF CONSTRUCTION IN ORDER TO FUNCTION AS A TEMPORARY SEDIMENT TRAP. ADDITIONAL FINAL GRADING AND/OR SEDIMENT REMOVAL MAY BE NECESSARY AT THE END OF THE PROJECT BEFORE FINAL STABILIZATION.
- APPLY SEED OR SOD TO TREATMENT SWALES AT THE END OF CONSTRUCTION ALONG WITH OTHER DISTURBED UNPAVED AREAS OF THE SITE.
- AFTER VEGETATION IS ESTABLISHED IN THE SWALE AND ONCE CONSTRUCTION IS COMPLETE, ONGOING MAINTENANCE BY THE PROPERTY OWNER SHALL INCLUDE VISUAL INSPECTION AFTER ANY LARGE STORM EVENT. REPAIR ANY DAMAGED SLOPES, RE-ESTABLISH ANY DAMAGED VEGETATION, AND REMOVE SEDIMENT FROM THE BOTTOM OF THE SWALE.

CONVEYANCE DITCH MAINTENANCE:
- VEGETATION SHALL BE ESTABLISHED ALONG ALL PERMANENT CONVEYANCE DITCHES IMMEDIATELY AFTER GRADING/SHAPING OF THE DITCH IS COMPLETED. IF THIS IS NOT POSSIBLE DUE TO CONSTRUCTION SCHEDULE, ROCK CHECK DAMS SHALL BE INSTALLED IN ALL DITCHES TO PREVENT CHANNELIZED EROSION DURING CONSTRUCTION.
- AFTER VEGETATION IS ESTABLISHED IN THE DITCH AND ONCE CONSTRUCTION IS COMPLETE, ONGOING MAINTENANCE BY THE PROPERTY OWNER SHALL INCLUDE VISUAL INSPECTION AFTER ANY LARGE STORM EVENT. REPAIR ANY DAMAGED SLOPES, RE-ESTABLISH ANY DAMAGED VEGETATION, AND REMOVE SEDIMENT FROM THE BOTTOM OF THE DITCH.

LEGEND

SILT FENCE
ROCK CHECK DAMS
DRAINAGE DITCH

KEYED NOTES:

1. CONTROL DISCHARGE. NO SEDIMENT-LADEN WATER SHALL LEAVE THE SITE. PROVIDE SEDIMENT TRAP OR POND AS NECESSARY.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MLL
DRAWN: AMR
CHECKED: MLL
APPROVED: TAP
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 11535 STATE OF IDAHO TRAVIS PYLE 02-14-2023

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BOISE, ID 83703
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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
EROSION SEDIMENT CONTROL PLAN

SHEET NO.
C102

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\4-21115-C102-COLBURN - EROSION SEDIMENT CONTROL PLAN.dwg

SHEET NOTES:

1. CONTRACTORS VEHICLES WILL SHARE THE ROAD WITH COMMERCIAL AND OPERATIONS TRAFFIC ALONG SERVICE ROAD.
2. DO NOT RESTRICT OR IMPEDE OPERATIONS WITHOUT PRIOR APPROVAL FROM OWNER AND ENGINEER. REFER TO THE SPECIFICATIONS.
3. OTHER WORK AREAS MAY ALSO SHARE TRAFFIC WITH PUBLIC.
4. PROVIDE MINIMUM OF 7 DAYS NOTICE OF MOBILIZATION FOR OWNER TO MOVE EQUIPMENT AND MATERIALS NECESSARY TO FACILITATE STAGING AND LAYDOWN AREAS.

KEYED NOTES:

1. MAINTAIN ACCESS TO COUNTY SHOPS THROUGHOUT CONSTRUCTION.
2. CONTRACTOR STAGING AREA LIMITS ARE APPROXIMATE. COORDINATE WITH OWNER.

SHEET LEGEND:

CONTRACTOR SITE ACCESS ROUTE

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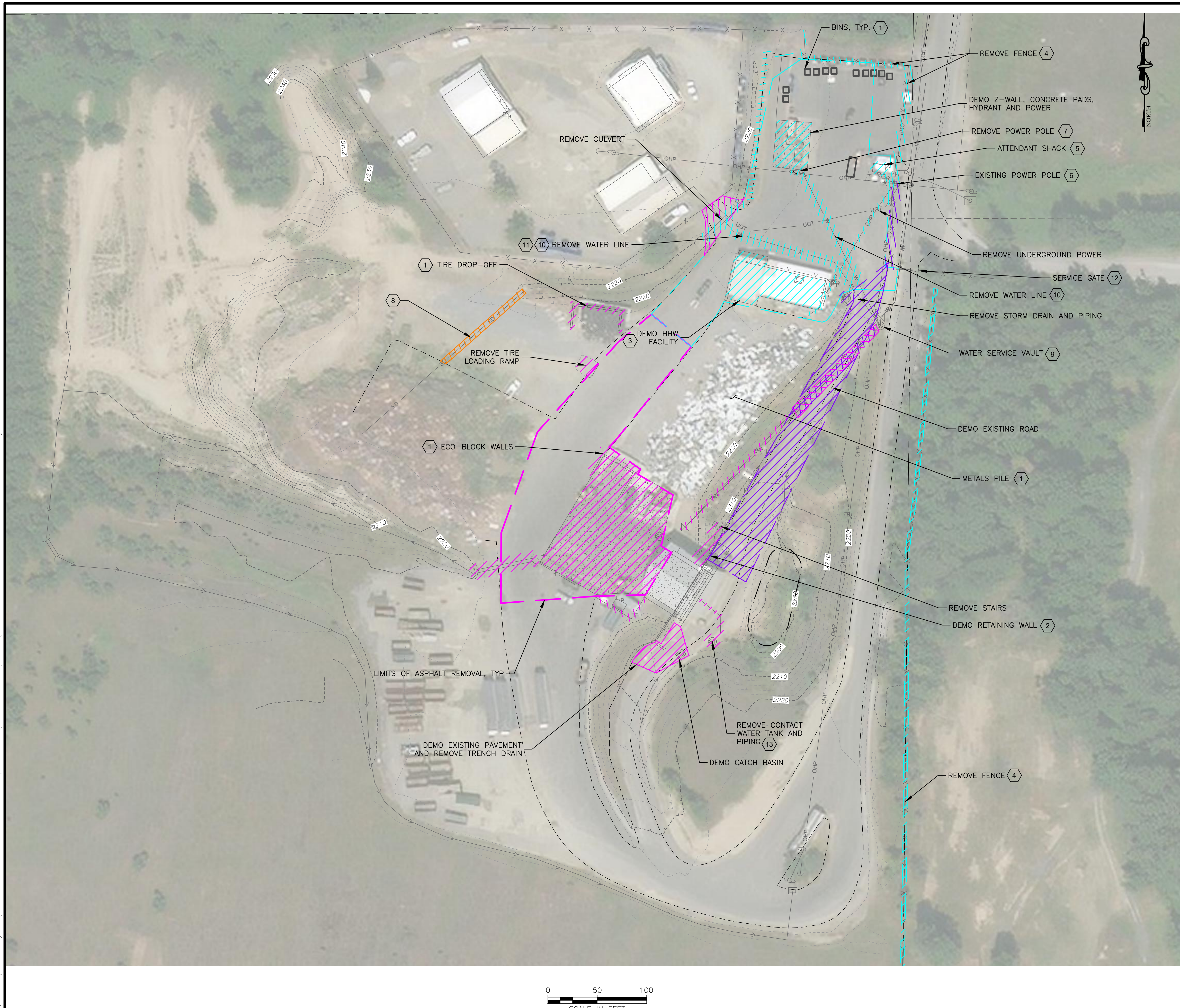
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
STAGING AND LAYDOWN PLAN

SHEET NO.
C103



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SHEET NOTES:

1. REFER TO ENLARGED SITE PLANS TO SEE AREAS OF EXISTING AND PROPOSED IMPROVEMENTS.

KEYED NOTES:

1. OWNER TO RELOCATE OR REMOVE PRIOR TO CONSTRUCTION.
2. REMOVE PORTION OF RETAINING WALL TAKING CARE TO PRESERVE INTEGRITY OF REMAINING WALL SECTION. SEE STUCTURAL SHEETS FOR LIMITS OF WALL DEMO.
3. COORDINATE WITH OWNER ON REMOVAL OF MATERIALS TO BE SALVAGED AND RETAINED PRIOR TO DEMOLITION.
4. STAGE FENCE REMOVAL TO ENSURE SITE REMAINS SECURE AT ALL TIMES.
5. COORDINATE WITH OWNER FOR THE DEMOLITION OR RELOCATION OF ATTENDANT SHACK.
6. RETAIN AND PROTECT EXISTING POLE.
7. SEE ELECTRICAL SHEETS FOR OTHER SITE DEMOLITION REQUIREMENTS.
8. ABANDONED STORM CULVERT. REMOVE IF ENCOUNTERED IN PROJECT AREA DURING CONSTRUCTION.
9. RETAIN AND PROTECT VAULT AND VALVE (EXTERIOR). DEMO WATER LINES AND REPLACE. SEE SHEET C105.
10. LOCATION OF WATER LINES ARE APPROXIMATED.
11. COORDINATE SHUT DOWN OF WATER SERVICE TO COUNTY MAINTENANCE SHOP WITH OWNER.
12. REMOVE SERVICE GATE AS NEEDED FOR PROJECT AND REUSE.
13. USE CAUTION AND MANAGE CONTACT WATER PROPERLY. COORDINATE WITH OWNER.

SHEET LEGEND:

- DEMOLITION AREA – SCHEDULE A
- DEMOLITION AREA – SCHEDULE B
- DEMOLITION AREA – SCHEDULE D
- DEMOLITION AREA – SCHEDULE E

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STATE OF IDAHO
TRAVIS PYLE
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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
OVERALL SITE DEMOLITION PLAN

SHEET NO.
C104

SHEET NOTES:

1. PROPOSED GRADING CONTOURS SHOWN IN 1' INTERVALS.

SHEET LEGEND:

- ASPHALT PAVEMENT SURFACING
- CONCRETE SURFACING
- GRAVEL SURFACING
- SOIL STABILIZATION
- SCHEDULE A VIEWPORT
- SCHEDULE B VIEWPORT
- SCHEDULE C VIEWPORT
- SCHEDULE D VIEWPORT
- SCHEDULE E VIEWPORT

NO.	REVISION DESCRIPTION	BY	DATE

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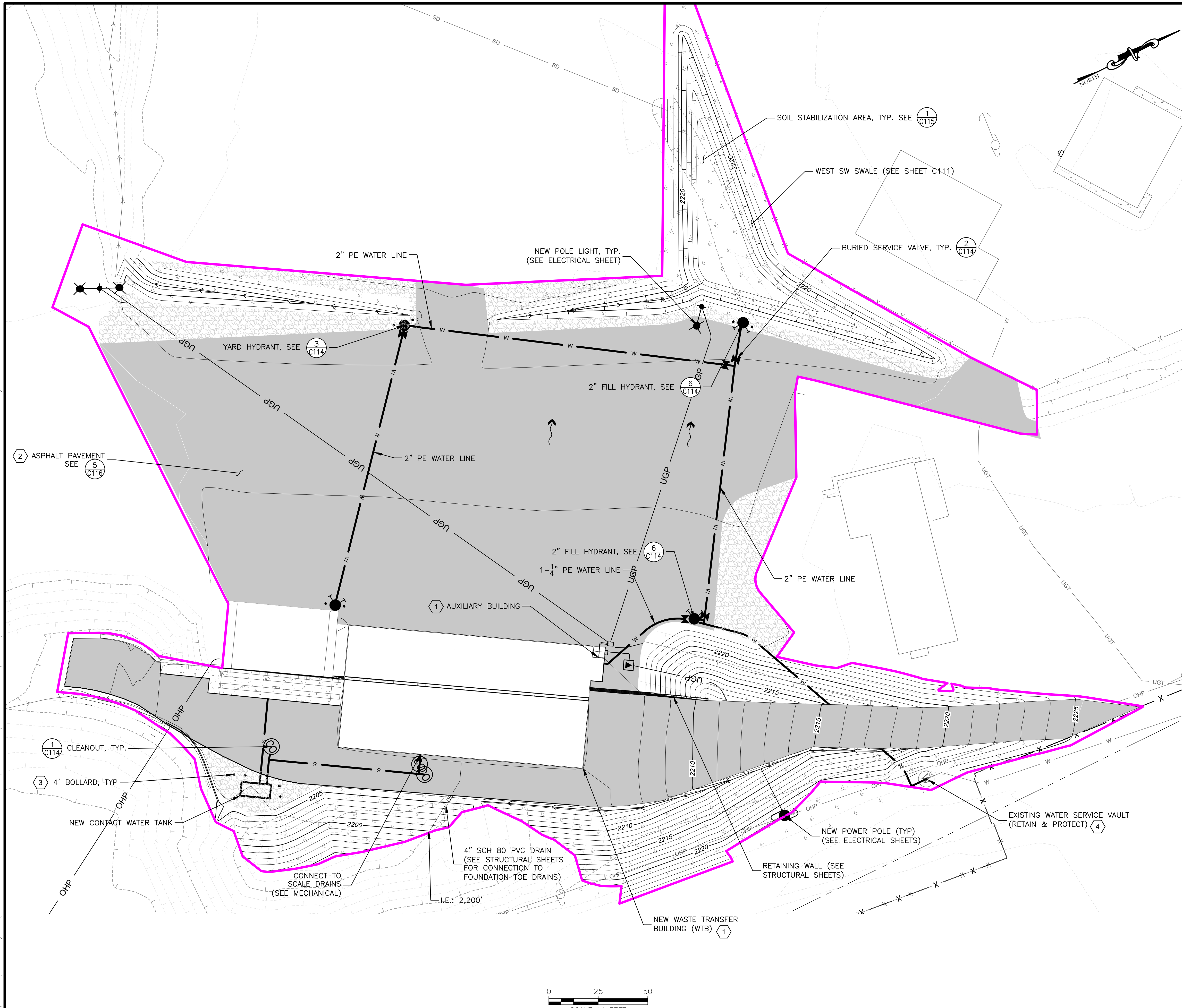
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
OVERALL PROPOSED SITE PLAN

SHEET NO.
C105



SHEET NOTES:

1. NEW GRADING CONTOURS SHOWN IN 1' INTERVALS.

KEYED NOTES:

1. SEE ARCHITECTURAL AND STRUCTURAL SHEETS.
2. SAW CUT EXISTING ASPHALT PAVEMENT AND TIE IN NEW PAVEMENT TO CLEAN EDGE.
3. PLACE BOLLARDS FOR PROTECTION OF STRUCTURE/FEATURE.
4. EXISTING WATER SERVICE VAULT HAS THE WATER METER AND THREE WATER LINES. RETAIN AND PROTECT THE WATER SYSTEM INSIDE VAULT. RUN NEW WATERLINE AS SHOWN. EXISTING WATER LINE LOCATIONS ARE ESTIMATES. SEE SHEET C106.

SHEET LEGEND:

- ASPHALT PAVEMENT SURFACING
- CONCRETE SURFACING
- GRAVEL SURFACING
- SOIL STABILIZATION
- DRAINAGE FLOW DIRECTION

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ENLARGED PROPOSED SITE PLAN - SCH. A

SHEET NO.
C106

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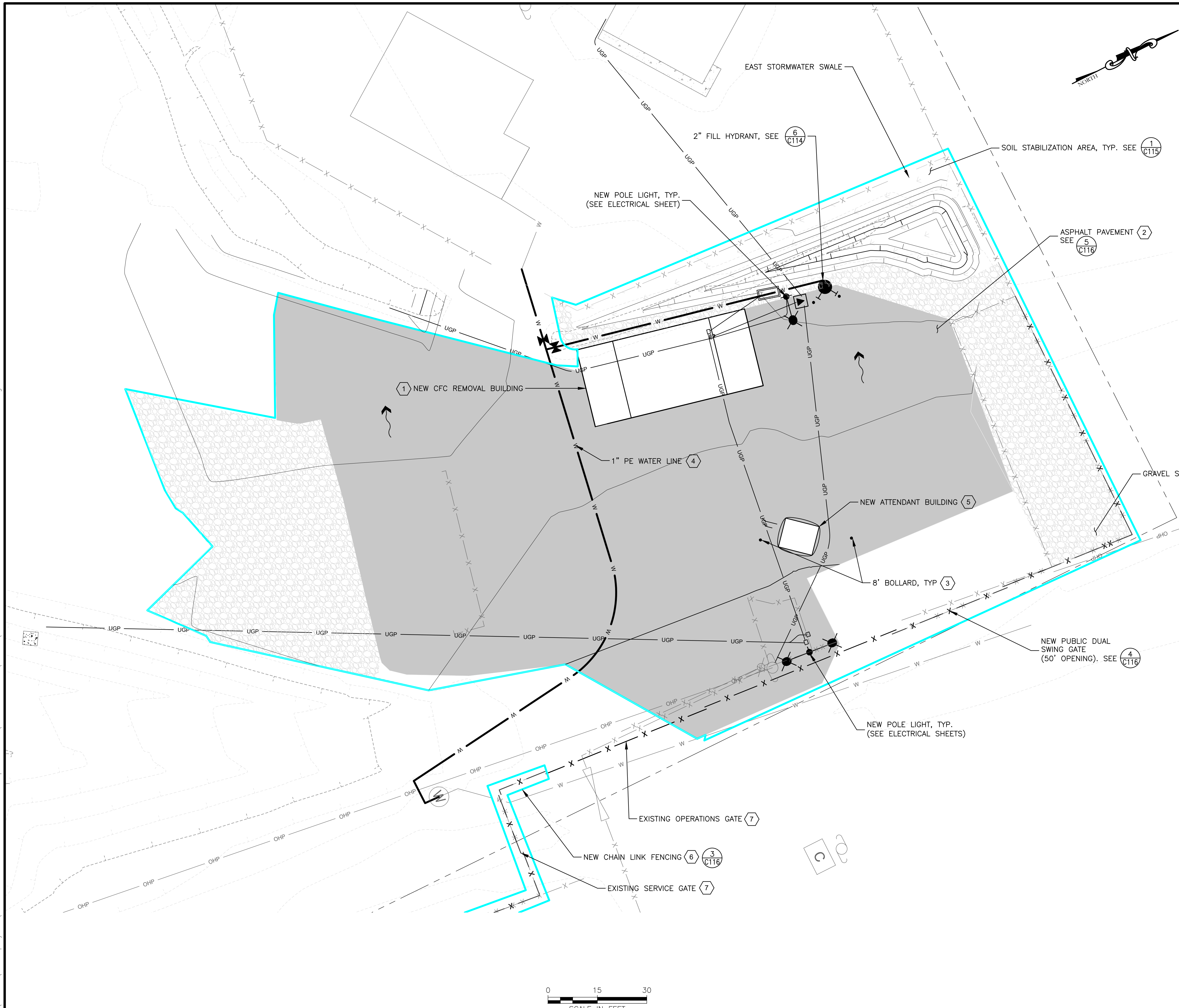

SHEET NOTES:

1. NEW GRADING CONTOURS SHOWN IN 1' INTERVALS.
2. PROVIDE PRIVACY SLATS IN FENCE ALONG ENTIRE FRONT NORTH EXTENSION TO NE CORNER ONLY.

KEYED NOTES:

1. SEE ARCHITECTURAL AND STRUCTURAL SHEETS.
2. SAW CUT EXISTING ASPHALT PAVEMENT AND TIE IN NEW PAVEMENT TO CLEAN EDGE.
3. PLACE BOLLARDS FOR PROTECTION OF STRUCTURE/FEATURE.
4. REPLACE SECTION OF EXISTING 1" WATERLINE TO SHOP BUILDINGS AND MAINTAIN MIN 5' COVER. TIE INTO EXISTING.
5. THE ATTENDANT BUILDING WILL BE SUPPLIED BY OWNER AND INSTALLED BY OTHERS IN FUTURE. (SEE ELECTRICAL).
6. ALL FENCING TO BE INCLUDED IN SCHEDULE B EXCEPT NEW OPERATIONS GATE (SCHEDULE D).
7. RETAIN & PROTECT EXISTING GATES.

SHEET LEGEND:

- ASPHALT PAVEMENT SURFACING
- CONCRETE SURFACING
- GRAVEL SURFACING
- SOIL STABILIZATION
- DRAINAGE FLOW DIRECTION

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11535
STATE OF IDAHO
TRAVIS A. PYLE
02-14-2023

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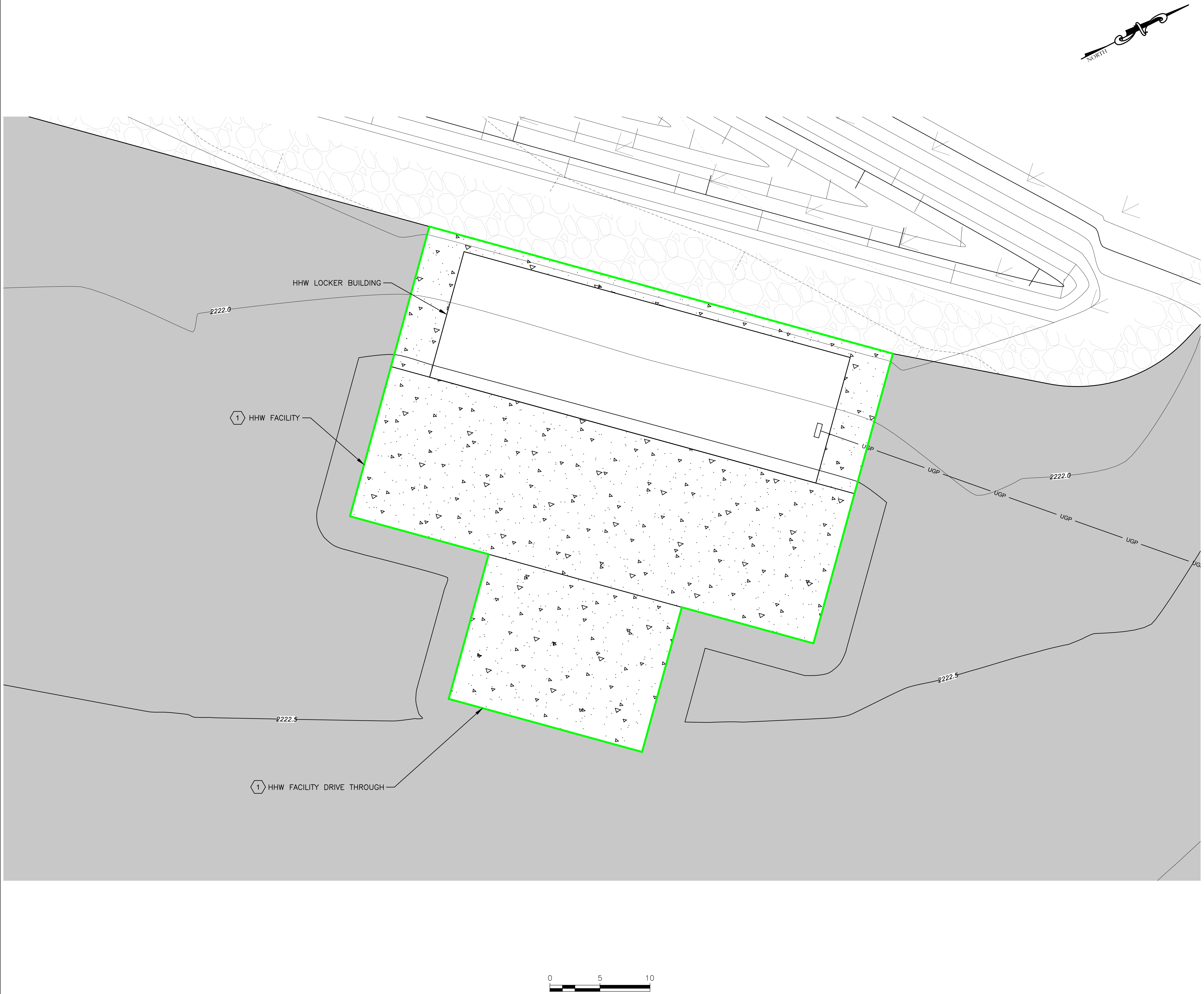
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ENLARGED PROPOSED SITE PLAN - SCH. B

SHEET NO.
C107



SHEET NOTES:

1. NEW GRADING CONTOURS SHOWN IN 1' INTERVALS.
2. ALL SURFACING SURROUNDING HHW FACILITY TO BE COMPLETED IN OTHER SCHEDULES.

KEYED NOTES:

1. SEE ARCHITECTURAL AND STRUCTURAL SHEETS.

SHEET LEGEND:

CONCRETE SURFACING

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ENLARGED PROPOSED SITE PLAN - SCH. C

SHEET NO.
C108

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SHEET NOTES:

1. NEW GRADING CONTOURS SHOWN IN 1' INTERVALS.

KEYED NOTES:

1. SAW CUT EXISTING ASPHALT PAVEMENT AND TIE IN NEW PAVEMENT TO CLEAN EDGE.
2. PROVIDE AND STAGGER-STACK ECOBLOCKS 2-HIGH. COORDINATE WITH OWNER.

SHEET LEGEND:

- ASPHALT PAVEMENT SURFACING
- CONCRETE SURFACING
- GRAVEL SURFACING
- SOIL STABILIZATION

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ENLARGED PROPOSED SITE PLAN - SCH. D

SHEET NO.
C109

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SHEET NOTES:

1. NEW GRADING CONTOURS SHOWN IN 1' INTERVALS.

KEYED NOTES:

1. PROVIDE AND STAGGER-STACK ECOBLOCKS 3-HIGH (6' MIN). COORDINATE WITH OWNER.
2. EXISTING ABANDONED STORMDRAIN. IF ENCOUNTERED DURING CONSTRUCTION, REMOVE IN AREAS NOT UNDER EXISTING PAVEMENT.
3. SAW CUT EXISTING ASPHALT PAVEMENT AND TIE IN NEW PAVEMENT TO CLEAN EDGE.

SHEET LEGEND:

ASPHALT PAVEMENT SURFACING

CONCRETE SURFACING

GRAVEL SURFACING

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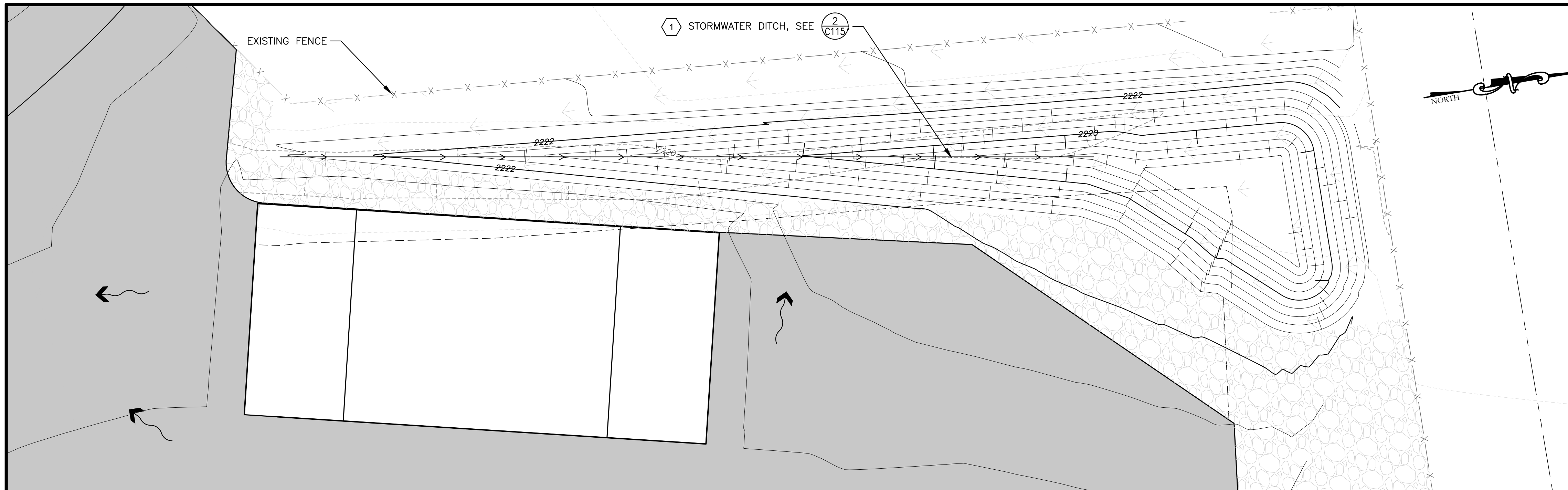
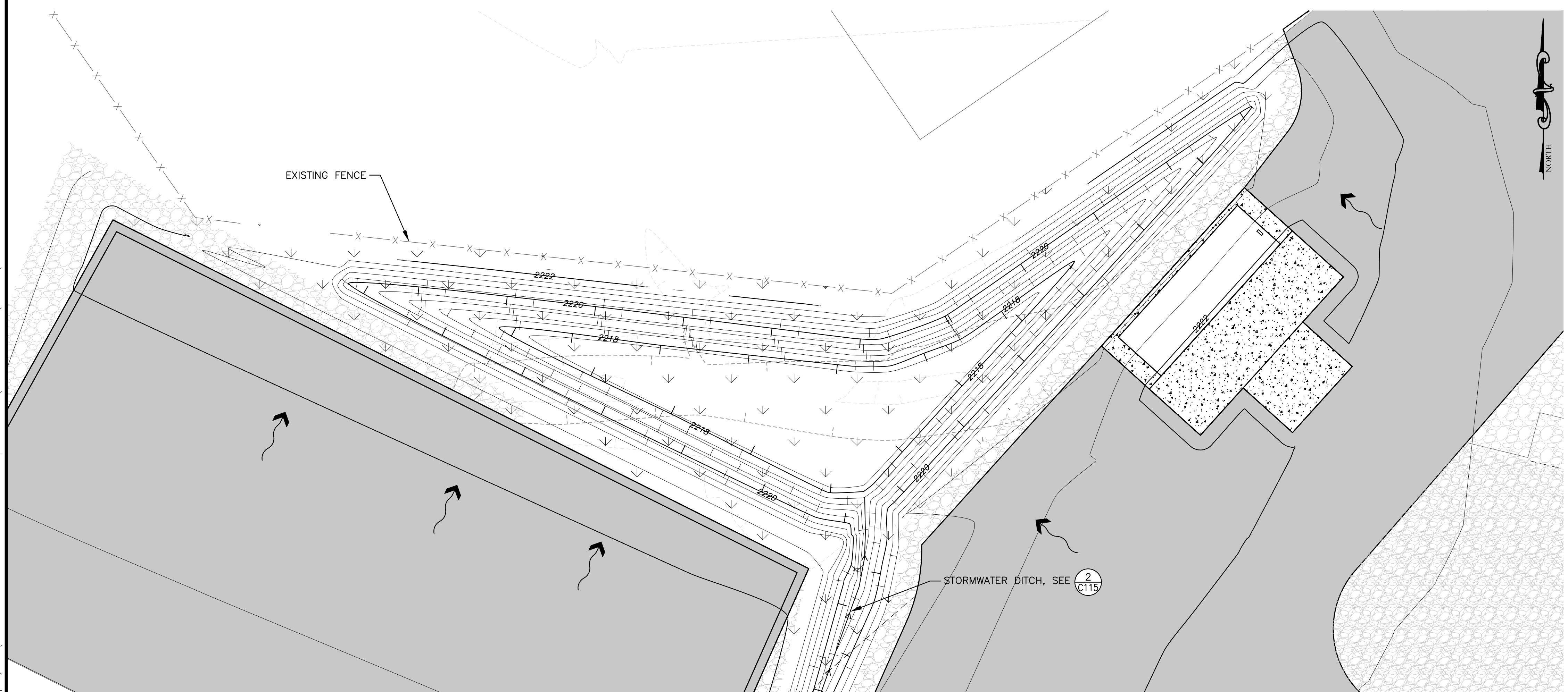
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ENLARGED PROPOSED SITE PLAN - SCH. E

SHEET NO.
C110



PLAN VIEW OF EAST SWALE

0 10 20
SCALE IN FEET



PLAN VIEW OF WEST SWALE

0 15 30
SCALE IN FEET

SHEET NOTES:

1. NEW GRADING CONTOURS SHOWN IN 0.5' INTERVALS.

KEYED NOTES:

1. DEPTH OF DITCH VARIES. REFER TO GRADING CONTOURS.

SHEET LEGEND:

- ASPHALT PAVEMENT SURFACING
- CONCRETE SURFACING
- GRAVEL SURFACING
- SOIL STABILIZATION
- DRAINAGE FLOW DIRECTION

STORMWATER CALCUALTIONS

THE STORMWATER SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE PERFORMANCE STANDARDS AS DESCRIBED IN BCRC §12–726.
THE STORMWATER TREATMENT SYSTEM HAS BEEN SIZED TO HOLD AND TREAT AT LEAST THE FIRST 1/2" OF STORMWATER FROM IMPERVIOUS SURFACES PER BCRC §12–726(A)
THE "TREATMENT SYSTEM" IS THE GRASS TREAMENT SWALES AS SHOWN ON THE PLANS, DESIGNED IN ACCORDANCE WITH THE IDAHO DEQ STORM WATER BEST MANAGEMENT PRACTICES CATALOG, SEPTEMBER 2005, BMP 1 (VEGETATED SWALE).
IMPERVIOUS AREAS ARE DRAINED TO 2 SEPARATE, UNCONNECTED TREATMENT SWALES AS SHOWN ON THE PLANS.

TREATMENT SWALE:
ASPHALT PAVEMENT = 69,190 SF
ROOF = 3,980 SF
GRAVEL SURFACING = 14,370 SF
TOTAL NEW IMPERVIOUS = 87,540 SF
1/2" OF RAINFALL ON IMPERVIOUS SURFACES = 3,650 CF (87,540 SF x 0.5 ÷ 12)

REQUIRED TREATMENT VOLUME = 3,650 CF
TOTAL PROPOSED TREATMENT SWALE BOTTOM AREA = 1,680 SF

PROPOSED TREATMENT VOLUME = 1,120 CF (AT 8" DEPTH)
(1,680 SF AREA x 0.67 FT DEPTH)

STORAGE VOLUME:
STORM VOLUMES HAVE BEEN ESTIMATED USING THE MODIFIED RATIONAL METHOD. REQUIRED DETENTION VOLUME HAS BEEN ESTIMATED FOR THE 25–YR STORM VOLUME AND ALSO ACCOUNTING FOR ESTIMATED INFILTRATION. MULTIPLE STORM DURATIONS HAVE BEEN ANALYZED BETWEEN A 15–MIN STORM AND A 24–HR STORM DURATION, AND THE "WORST CASE" DURATION OF 24–HOURS HAS BEEN USED.

DURATION THAT REQUIRES THE MOST STORAGE = 15–MIN STORM
25–YR, 15–MIN STORM INTENSITY = 1.70 IN/HR
(ITD DESIGN MANUAL APP. B)

RATIONAL C = 0.90
(FHWA URBAN DRAINAGE DESIGN MANUAL, IMPERVIOUS)
25–YR, 15–MIN RUNOFF = 2,790 CF
(0.90 x 87,540 SF x 1.7 IN/HR x (1/12) x 0.25 HR)

INFILTRATION = 1.28 IN/HR
(NRCS SOIL REPORT, BONNER GRAVELLY ASHY SILT LOAM, AVERAGE OF REPORTED KSAT VALUES 0.43 IN/HR TO 2.13 IN/HR)
INFILTRATION DURING 25–YR, 15–MIN STORM = 45 CF
(1,680 SF x 1.28 IN/HR x (1/12) x 0.25 HR)

2,790 – 45 = 2,745

REQUIRED DETENTION VOLUME = 2,745 CF
PROPOSED DETENTION VOLUME = 3,360 CF (AT 24" DEPTH)

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02-14-2023

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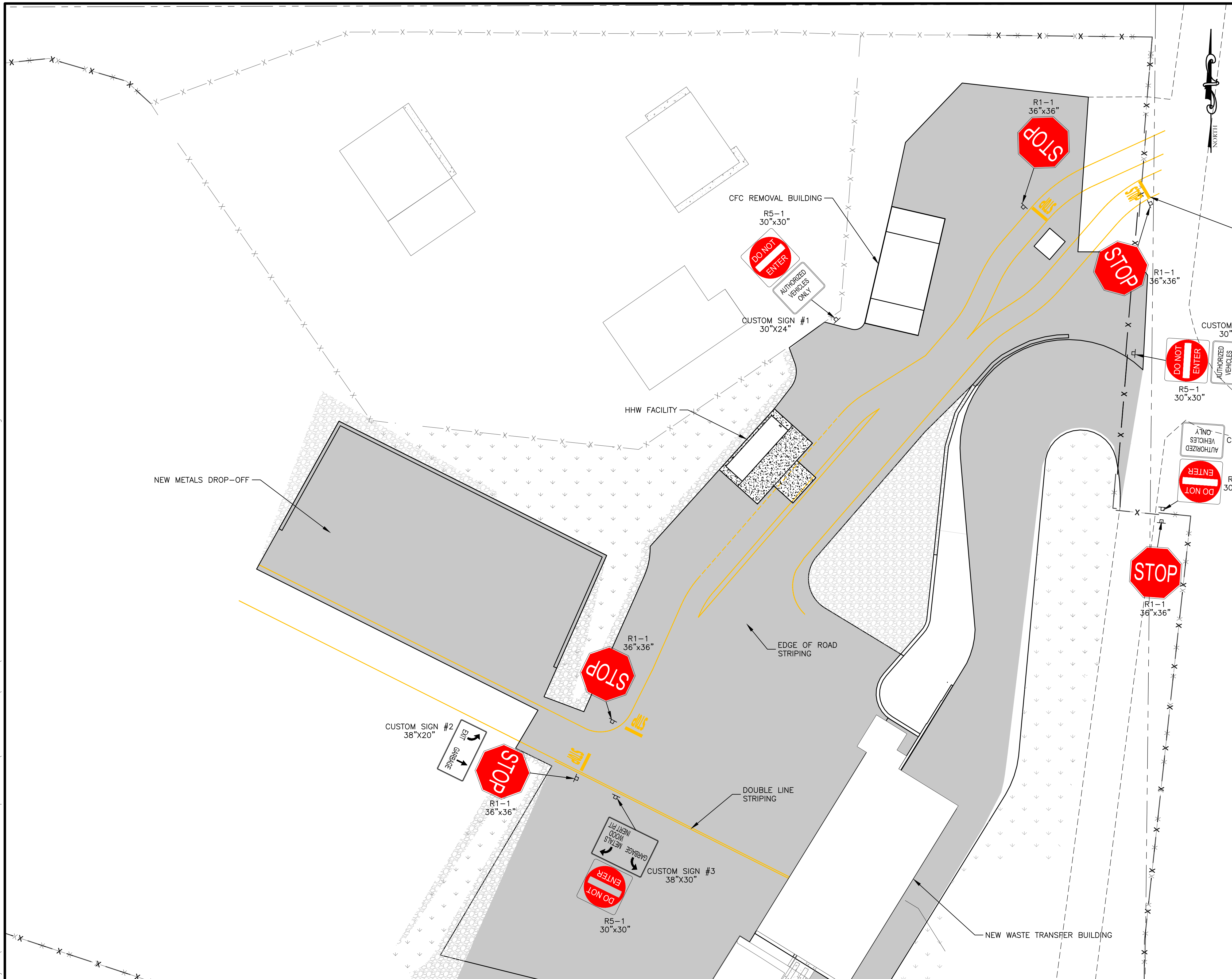
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
STORMWATER SWALES

SHEET NO.
C111



SHEET NOTES:

1. PAVEMENT MARKING COLORS TO BE AS SHOWN.
2. ALL SIGNED ARROWS SHALL BE BLACK.
3. SIGNS AND POSTS TO BE PROVIDED BY OWNER.
4. ALL SITE STRIPING TO BE INCLUDED IN SCHEDULE B.

MATCH LINE: SEE SHEET C113

0 30 60
SCALE IN FEET

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
STRIPING AND SIGNAGE PLAN - NORTH

SHEET NO.
C112

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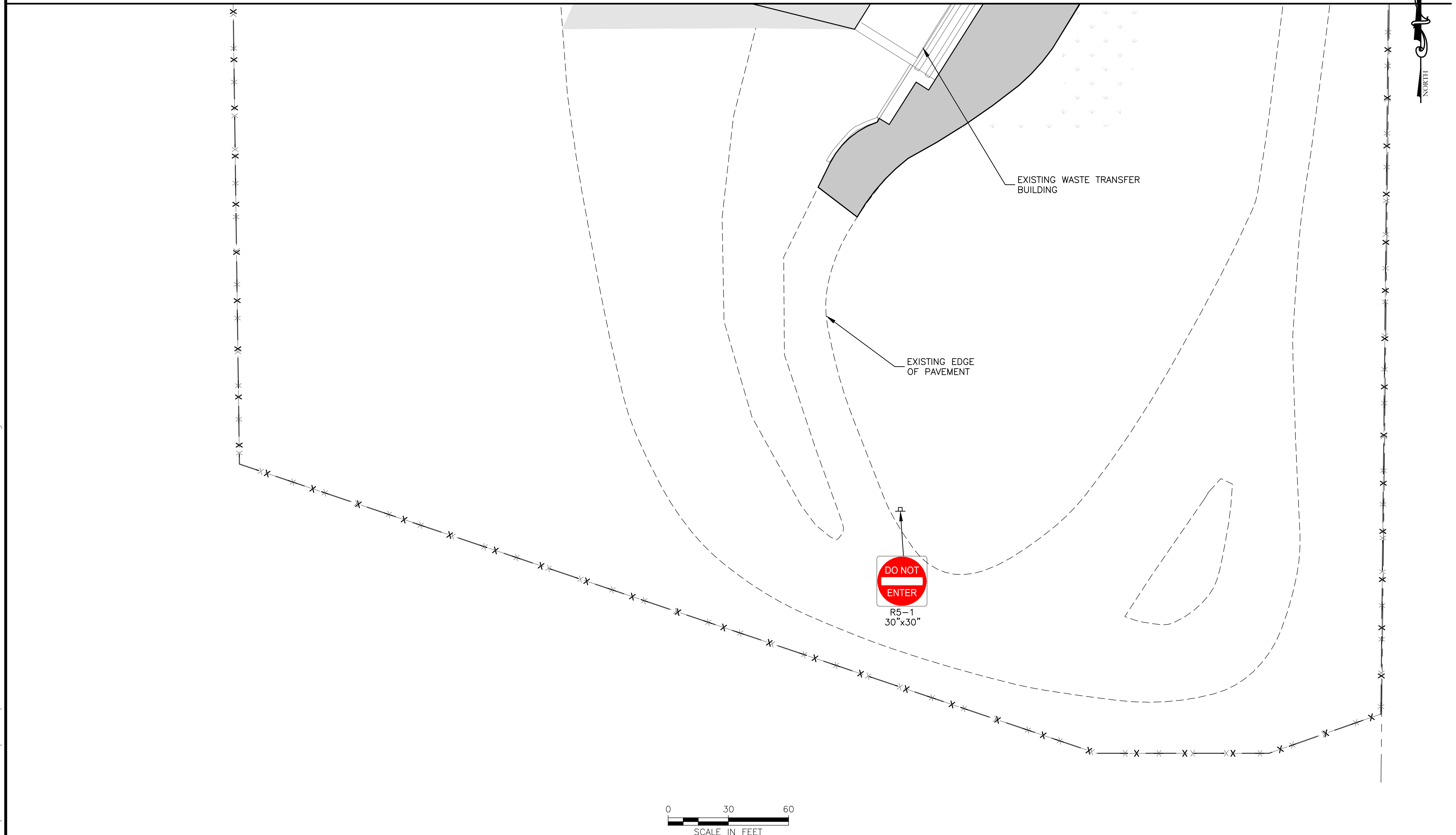
MATCH LINE: SEE SHEET C112

SHEET NOTES:

1. PAVEMENT MARKING COLORS TO BE AS SHOWN.
2. ALL SIGNED ARROWS SHALL BE BLACK.
3. SIGNS AND POSTS TO BE PROVIDED BY OWNER.
4. ALL SITE STRIPING TO BE INCLUDED IN SCHEDULE B.



NO.	REVISION DESCRIPTION	BY	DATE

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
STRIPING AND SIGNAGE PLAN - SOUTH

SHEET NO.
C113

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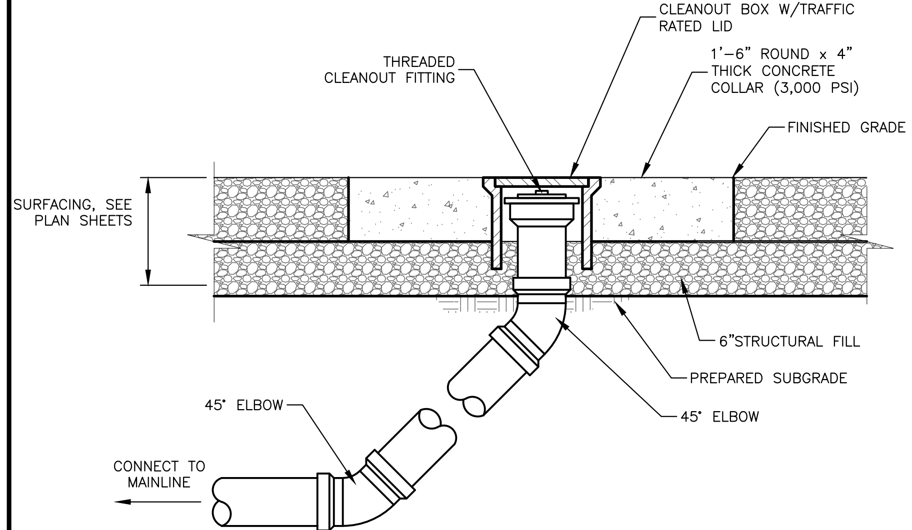
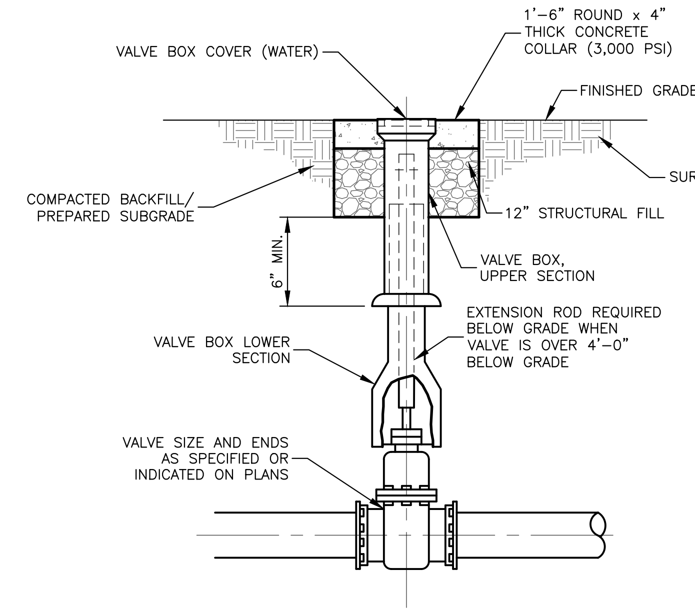


NOTES:

1. ALL CLEANOUT PIPE SHALL MATCH MAINLINE PIPE MATERIAL AND SDR WALL THICKNESS.
2. SEE PLAN FOR PIPE DEPTHS AND LOCATIONS

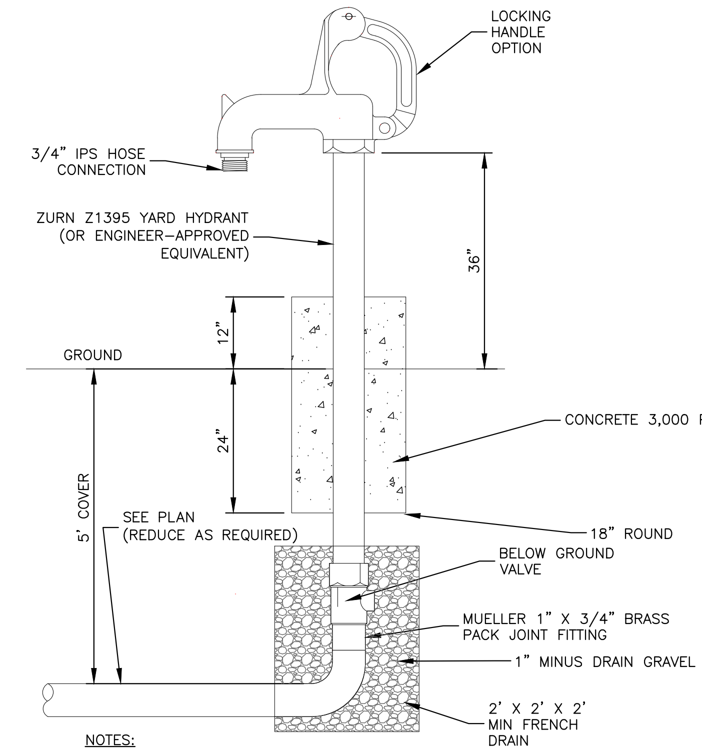
1 C114 CLEANOUT
NOT TO SCALE



NOTES:

1. REFER TO TYPICAL PIPE TRENCH.

2 C114 BURIED SERVICE VALVE
NOT TO SCALE

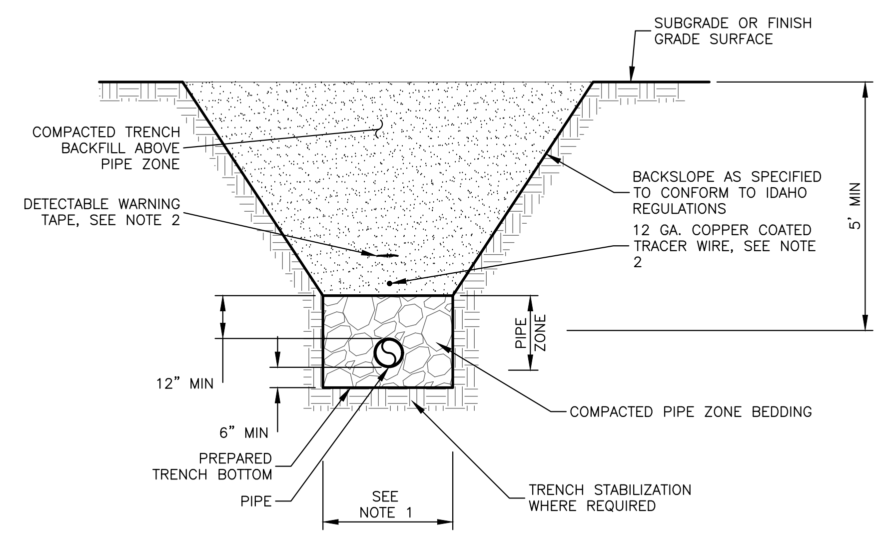


NOTES:

1. COORDINATE WITH OWNER FOR LOCATION OF PROTECTIVE BOLLARDS. SEE PLAN FOR GENERAL LAYOUT AND COUNT.

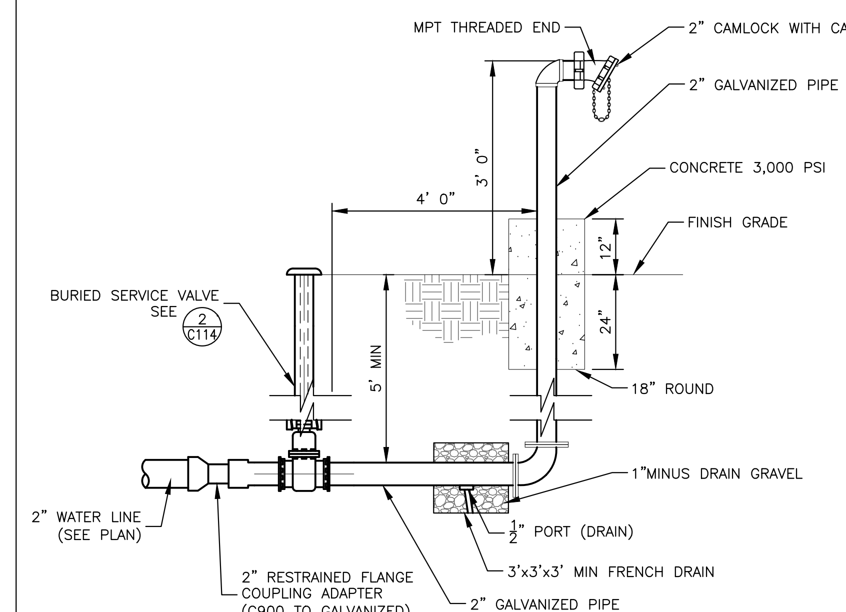
3 C114 YARD HYDRANT
NOT TO SCALE

4 C114 NOT USED
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATIONS FOR MINIMUM TRENCH WIDTHS.
2. REFER TO SPECIFICATIONS FOR DEPTH OF WARNING TAPE AND TRACER WIRE.

5 C114 TYPICAL PIPE TRENCH
NOT TO SCALE



NOTES:
1. GRADE UNDERGROUND PIPING TO DRAIN TO PORT USING 4"x1/2" SADDLE TEE, 1/2" DIAMETER NIPPLE, AND AUTO BALL DRIP.
2. COORDINATE WITH OWNER FOR LOCATION OF PROTECTIVE BOLLARDS. SEE PLAN FOR GENERAL LAYOUT AND COUNT.

6 C114 2" FILL HYDRANT
NOT TO SCALE

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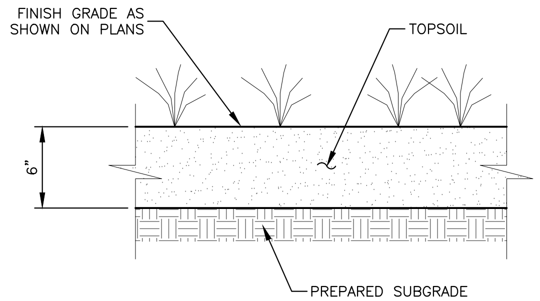
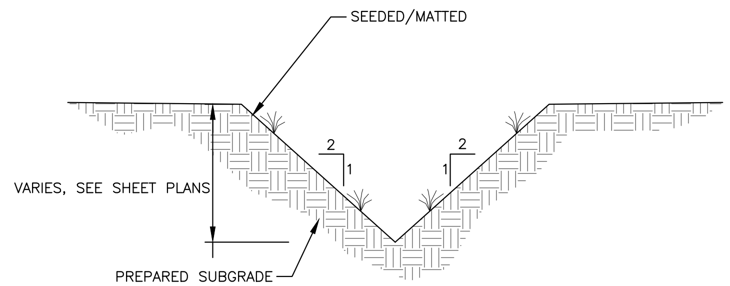
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CIVIL DETAILS

SHEET NO.
C114



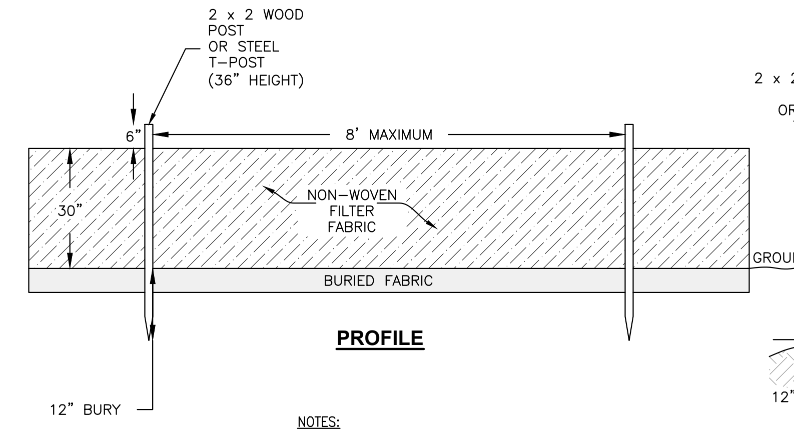
NOTES:
1. PLACE TOPSOIL WITH LOW COMPACTION TECHNIQUES. TRACK WALK SLOPES (PERPENDICULAR TO SLOPES) BEFORE SEEDING AND MULCHING.
2. STABILIZE SOIL ON CUT AND FILL SLOPES AND ALL OTHER AREAS OF DISTURBANCE NOT SLATED TO RECEIVE OTHER SURFACING.

1 SOIL STABILIZATION
C115 NOT TO SCALE

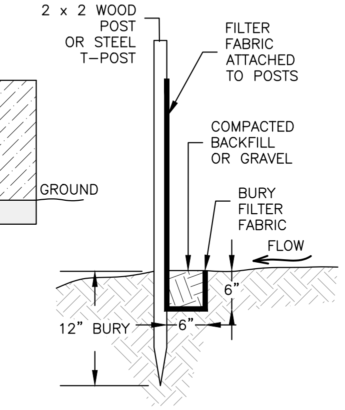


NOTES:
1. ADD DITCH STABILIZATION FABRIC AND CHECK DAMS TO DITCHES STEEPER THAN 2%.

2 DRAINAGE DITCH
C115 NOT TO SCALE



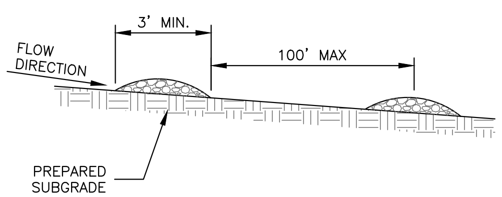
PROFILE



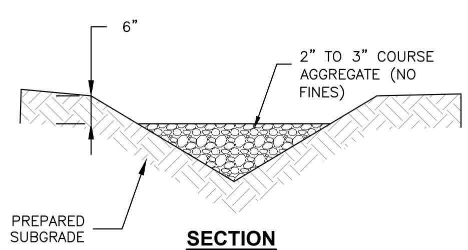
SECTION

NOTES:
1. INSPECT SILT FENCE AFTER EACH STORM EVENT. REPAIR ANY DAMAGED SECTIONS AND REMOVE ANY ACCUMULATED SEDIMENT.
2. INSTALL ROUGHLY PARALLEL TO CONTOURS.
3. SILT FENCE IS NOT INTENDED FOR CHANNELIZED FLOW.

3 SILT FENCE
C115 NOT TO SCALE

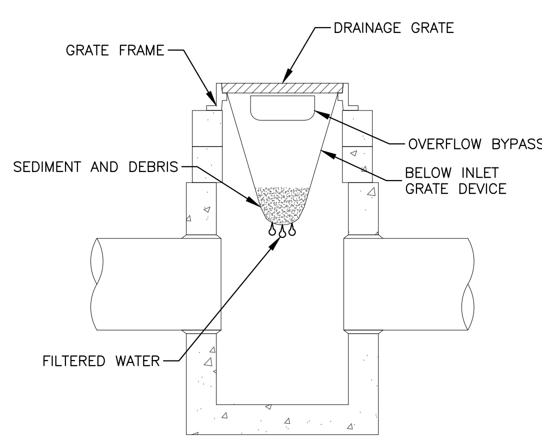


PROFILE

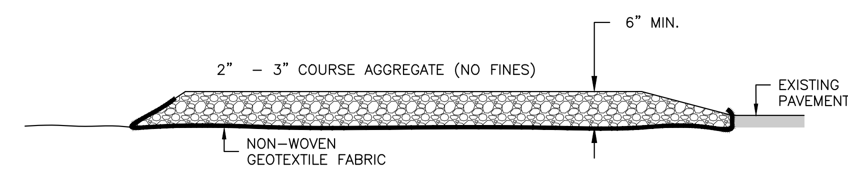


SECTION

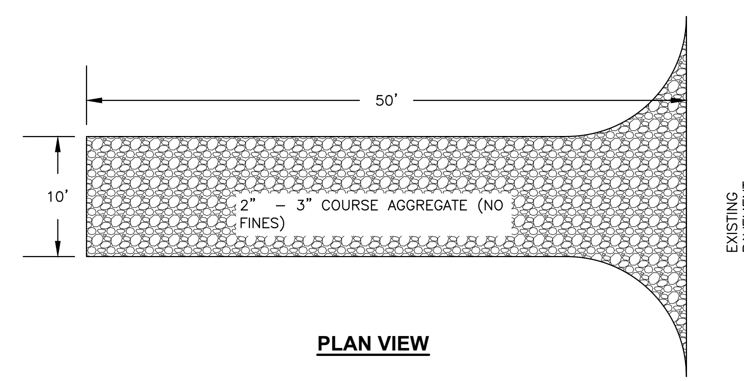
4 ROCK CHECK DAM
C115 NOT TO SCALE



5 INLET PROTECTION
C115 NOT TO SCALE



PROFILE



PLAN VIEW

NOTES:
1. CONTRACTOR MAY USE STEEL CATTLE GUARDS INSTEAD OF LARGE DIAMETER AGGREGATE FOR THE CONSTRUCTION ENTRANCE.
2. IF THE CONSTRUCTION ENTRANCE CROSSES A ROADSIDE DRAINAGE, A CULVERT SHALL BE INSTALLED TO ALLOW TEMPORARY PASSAGE OF WATER.
3. DO NOT SLOPE CONSTRUCTION ENTRANCE TO DRAIN DIRECTLY ONTO THE STREET.
4. THE ENTIRE AREA OF CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ANY ADJACENT STREET OR ROAD. CONSTRUCTION ENTRANCE MAY REQUIRE PERIODIC PLACEMENT OF ADDITIONAL AGGREGATE AS CONDITIONS DEMAND.
5. WHENEVER SEDIMENT IS TRACKED ONTO ADJACENT PAVED SURFACES, STREET SWEEPING MUST BE UTILIZED IMMEDIATELY. STREET SWEEPING MAY NOT INCLUDE USE OF WATER TRUCKS OR POWER WASHING.

6 STABILIZED CONSTRUCTION ENTRANCE
C115 NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MLL
DRAWN: AMR
CHECKED: MLL
APPROVED: TAP
DATE: FEBRUARY 2023

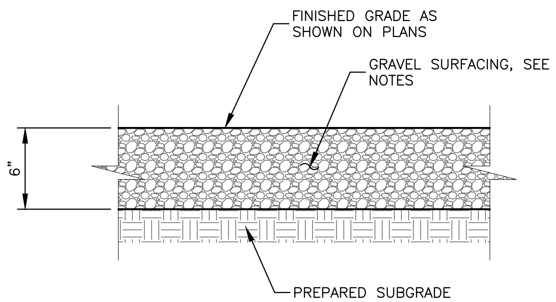
PROFESSIONAL ENGINEER REGISTERED 11535 STATE OF IDAHO TRAVIS PYLE
02-14-2023

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CIVIL DETAILS

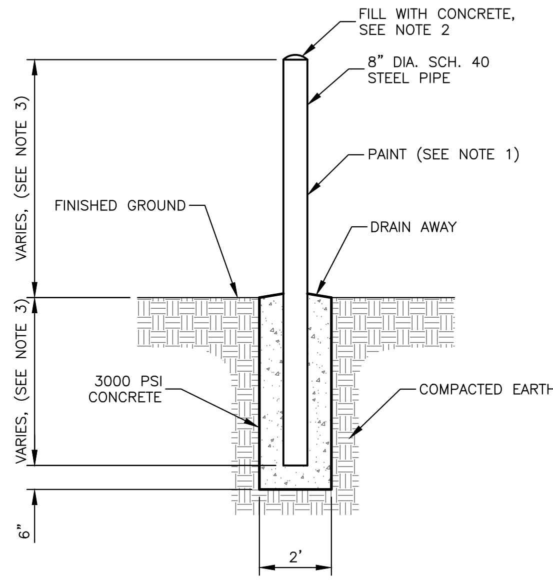
SHEET NO.
C115

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\4-21115-C115-CIVIL DETAILS.dwg



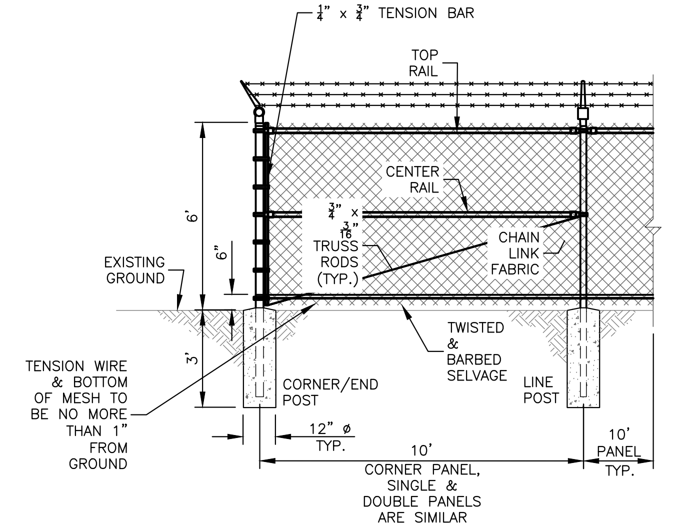
NOTES:
1. UTILIZE TYPE I CRUSHED AGGREGATE BASE FOR GRAVEL SURFACING

1 C116 GRAVEL SURFACING
NOT TO SCALE



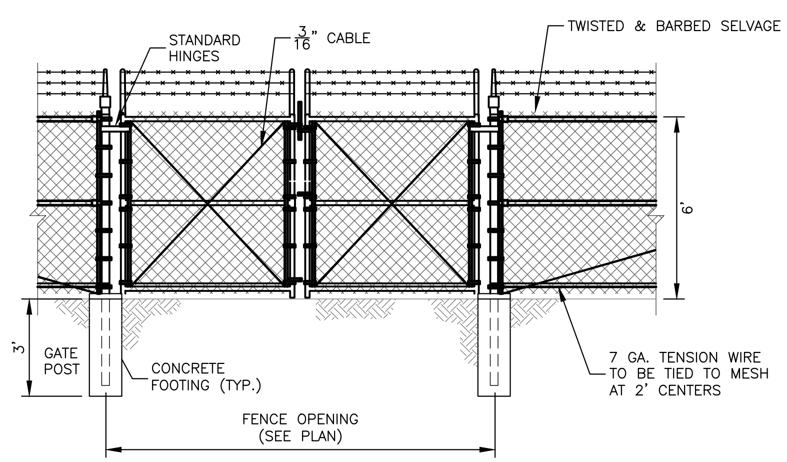
NOTES:
1. FINISH AND PAINT ALL EXPOSED STEEL WITH 2 COATS OF TRAFFIC YELLOW.
2. FINISH CROWN SMOOTH AND CLEAN.
3. REFER TO PLANS FOR BOLLARD HEIGHT CALL-OUT. FOR 8' TALL BOLLARDS, DEPTH MIN 5'; FOR 6' TALL BOLLARDS , DEPTH MIN 4'; AND SHORTER BOLLARDS MIN DEPTH 3.5'

2 C116 EXTERIOR BOLLARD
NOT TO SCALE



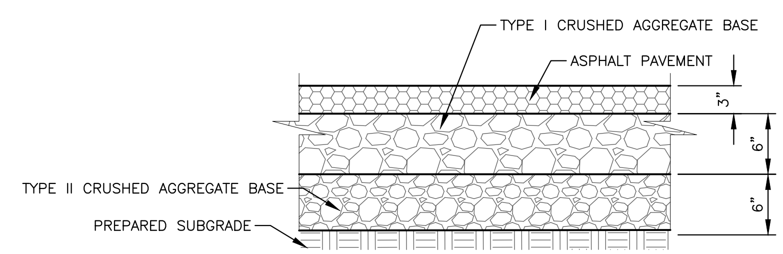
FENCE MATERIALS:
1. TOP & CENTER RAILES TO BE 1 5/8" O.D.
2. FABRIC TO BE 9 GUAGE 2" MESH.
3. CORNER POSTS TO BE 2 7/8" O.D. x 0.160" WALL THICKNESS.
4. GATE POSTS TO BE 2 7/8" O.D. x 0.160" WALL THICKNESS.
5. LINE POSTS TO BE 1 7/8" x 2.28 LB./FT. FORMED STL. SECTION
6. POST SPACING NOT TO EXCEED 10'.
7. SEE PLAN FOR WHERE PRIVACY SLATS ARE REQUIRED.
8. COLOR TO BE SELECTED BY OWNER.

3 C116 CHAIN LINK FENCE
NOT TO SCALE



NOTES:
1. PULL POST BRACING SHALL BE SAME AS CORNER BRACING.
2. AT LEAST ONE POST WILL BE EXTENDED 3' INTO THE GROUND FOR LIGHTNING PROTECTION.
3. CHAIN LINK MESH TO BE TIED TO TOP AND CENTER RAILS AT 2' CENTERS.
4. GATE CHAIN LINK FABRIC SHALL MATCH FENCE CHAIN LINK FABRIC.
5. GATE FRAMES SHALL BE WELDED & BRACES FURNISHED AS REQUIRED.
6. CONTRACTOR TO VERIFY DIMENSIONS.
8. REFER TO PLAN SHEET FOR LENGTHS.

4 C116 DOUBLE SWING CHAIN LINK GATE
NOT TO SCALE



5 C116 ASPHALT PAVEMENT SECTION
NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MLL
DRAWN: AMR
CHECKED: MLL
APPROVED: TAP
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 11535 STATE OF IDAHO TRAVIS PYLE 02-14-2023

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CIVIL DETAILS

SHEET NO.
C116

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DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE WD	DOOR SIZE HGT	DOOR MATL	DOOR TYPE	ROOM	FRAME MATL	FRAME EL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING LABEL	HARDWARE GROUP	HARDWARE SPEC	NOTES
D1	3'–0"	7'–0"	HM	A	TUNNEL	HM	1	HM	HM	–	–	1	08710	3,6
D2	3'–0"	7'–0"	HM	A	TUNNEL	HM	1	HM	HM	–	–	1	08710	3,6
D3	12'–0"	14'–0"	STL	B	TUNNEL	MTL	4	–	–	–	–	2	08330	4,5
D4	12'–0"	14'–0"	STL	B	TUNNEL	MTL	4	–	–	–	–	2	08330	4,5
D5	3'–0"	7'–0"	HM	A	TIPPING	HM	1	HM	HM	–	–	3	08710	3,6
D6	3'–0"	7'–0"	HM	A	AUXILIARY	HM	1	HM	HM	–	–	3	08710	3,6
D7	3'–0"	7'–0"	HM	A	TIPPING	HM	1	HM	HM	–	–	1	08710	3,6
D8	3'–0"	7'–0"	HM	A	AUXILIARY	HM	1	HM	HM	–	–	1	08710	3,6
D9	3'–0"	7'–0"	HM	A	AUXILIARY	HM	1	HM	HM	–	–	4	08710	3,6
D10	16'–0"	12'–0"	HM	B	CFC	HM	1	HM	HM	–	–	5	08710	3,6
D11	8'–0"	8'–0"	STL	C	CFC	MTL	1	–	–	–	–	2	08330	4,5
D12	16'–0"	12'–0"	STL	A	CFCL	MTL	1	–	–	–	–	2	08330	4,5

DOOR AND FRAME NOTES

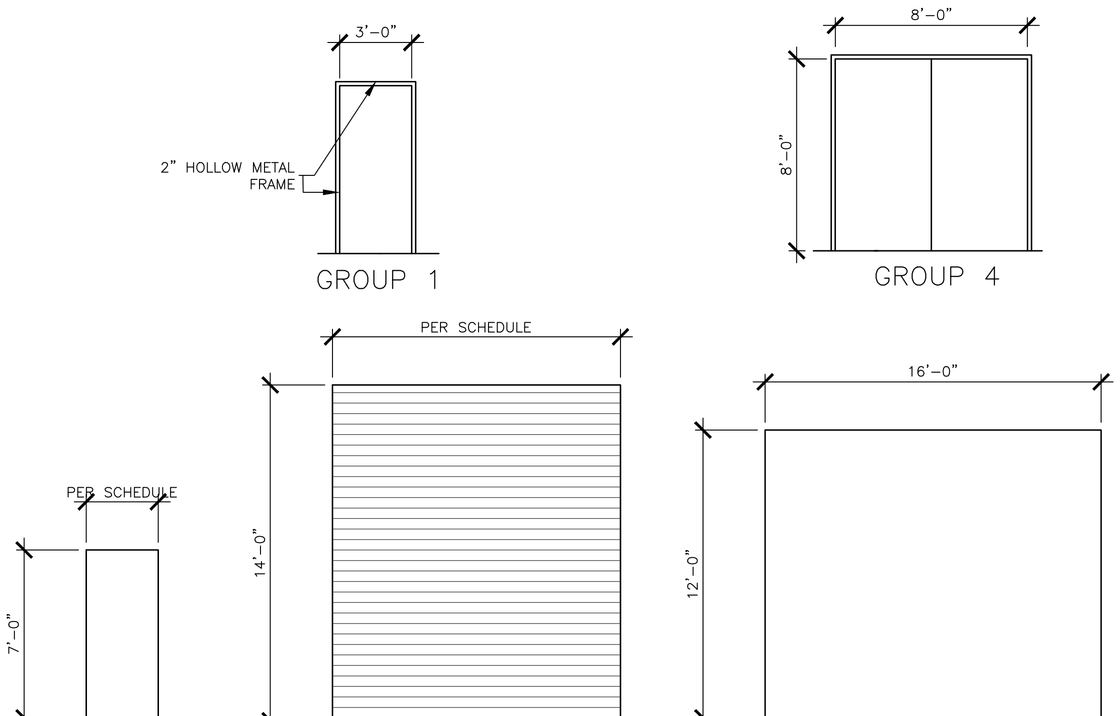
1. INSULATED PER SPEC SECTION 08110 AND 08330.
2. INSUL. GLASS
3. PROVIDE METAL FLASHING AT HEAD AND JAMB OPENINGS. COLOR TO MATCH SIDING.
4. MANUAL CHAIN OPERATED, AS SPECIFIED BY MFR.
5. FINISH: GALVANIZED STEEL
6. FINISH: PAINT

HARDWARE GROUPS

GROUP 1,3,4:
1 ½" PAIR SS 4 ½ X 4 ½ HINGES W/ NON–REMOVABLE PINS
1 CLOSER
1 THRESHOLD
1 HD LEVER LATCHSET PASSAGE FUNCTION
1 THUMBTURN DEADBOLT WITH MECHANICAL PUSH BUTTON
1 SET SEALS
NOTE: DEADBOLT TO BE ACTIVATED FROM BUILDING INTERIOR WITH ONE MOTION OF LATCH SET LEVER AS REQUIRED BY IBC FOR EGRESS

GROUP 2:
ALL HARDWARE PER DOOR MANUFACTURER

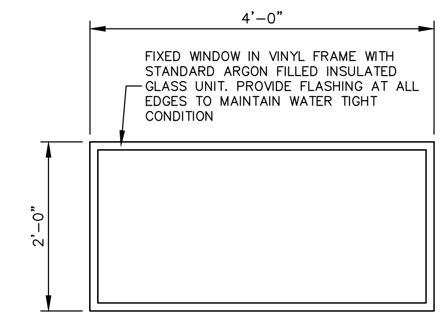
GROUP 5:
1 ½" PAIR SS 4 ½ X 4 ½ HINGES W/ NON–REMOVABLE PINS
1 CLOSER
1 THRESHOLD
1 HD LEVER LATCHSET PRIVACY FUNCTION
1 SET SEALS



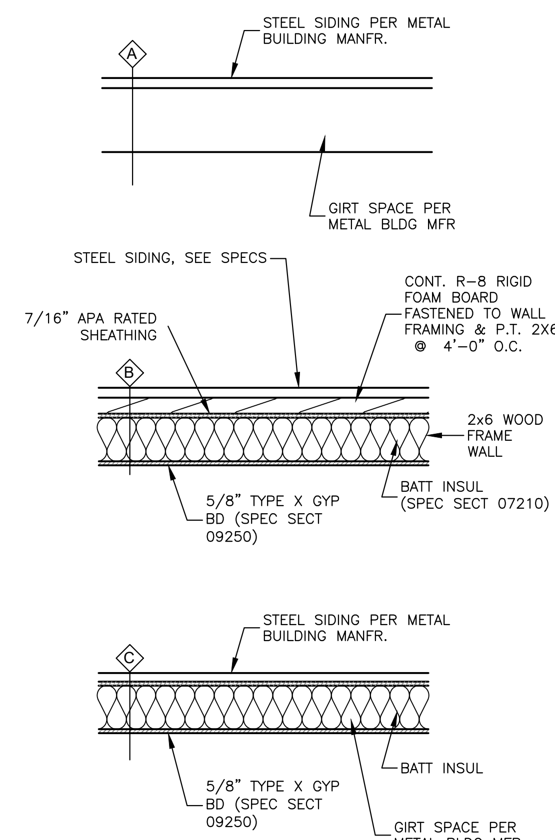
1 A100 **DOOR TYPES**
Scale: 1/8" = 1'–0"

WINDOW NOTES

1. ALL WINDOWS TO BE VINYL ASSEMBLIES W/ ARGON FILLED INSULATED GLAZING UNLESS NOTED OTHERWISE ON THE DRAWINGS



X A100 **WINDOW TYPE 1**
Scale: NTS



2 A100 **WALL TYPES**
1/2" = 1'–0"

CODE SUMMARY – WASTE TRANSFER FACILITY

Applicable Codes:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2017 IDAHO STATE PLUMBING CODE
2018 INTERNATIONAL FIRE CODE (IFC)

Occupancy Classification: (IBC 311)
S1 Storage

Type Of Construction Classification: (IBC 602 AND TABLE 503)
TYPE II–B Non–Combustible

Area And Height Limits:
Area: (Table 503)
17,500 SF Per Story Allowable
5,670 And 1,600 Actual
Height And Stories: (Table 503)
55 Feet, 2 Stories Allowable
51 Feet 2 Stories Actual

Occupancy / Egress:
Design Occupancy (Table1004.1.2)
5,670 SF/300 = 19 (Tipping Floor)
1600 SF/300 = 6 (Tunnel)
Maximum Occupant Load Each Exit = 29 (Table 1021.2)
Required Exits (Table 1021.2) = 1 Exit Each Floor
Exits Provided = 1 At Tipping Floor
2 at Tunnel

Fire Protection:
Sprinkler System Not Required For Area Less Than 12,000 SF (903.2.9)
Portable Fire Extinguishers Are Required In Accordance With the IFC And (906)

Energy Conservation Requirements:
This Building is uninsulated and Unheated.

CODE SUMMARY – HHW BUILDING

Applicable Codes:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2017 IDAHO STATE PLUMBING CODE
2018 INTERNATIONAL FIRE CODE (IFC)

Occupancy Classification: (IBC 311)
S2
Type Of Construction Classification: (IBCmatc 602 AND TABLE 503)
TYPE V–B

Area And Height Limits:
Area: (Table 503)
6,500 SF Per Story Allowable
1,320 And 780 Actual
Height And Stories: (Table 503)
40 Feet, 2 Stories Allowable
18 Feet 2 Stories Actual

Occupancy / Egress:
Design Occupancy (Table1004.1.2)
= 4 (H–4)
= 3 (S–2)
Maximum Occupant Load Each Exit = 29 (Table 1021.2)
Required Exits (Table 1021.2) = 1
Exits Provided = 2

Fire Protection:
Sprinkler System Required For Group H Occupancies (903.2.5)
Alternative Fire Suppression Systems May Be Allowed if Approved By the Fire Code Official
Portable Fire Extinguishers Required
Manual Fire Alarm System and Smoke Detection System Required
Separation of Occupancies: Foundation Wall to Bottom Side of Roof Deck (Fully Grouted CMU)

Energy Conservation Requirements:
This Building is Insulated and Heated.

Additional Requirements:
ACCESSIBLE DRINKING FOUNTAIN AND TOILET FACILITIES SHALL COMPLY WITH ICC/ANSI 117.1, SEE SECITON 603 THOROUGH 609
EXIT SIGNS REQUIRED (IBC 1013)
MEANS OF EGRESS ILLUMINATION REQUIRED (IBC 1006)
DRAFTSTOPPING REQUIRED (IBC 718)
ATTIC REQUIREMENTS: 20" X 30" MIN ACCESS PANEL REQUIRED (IBC 1209.2)
ATTIC CROSS VENTILATION REQUIRED (IBC 1203)

CODE SUMMARY – ATTENDANT FACILITY

Applicable Codes:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2017 IDAHO STATE PLUMBING CODE
2018 INTERNATIONAL FIRE CODE (IFC)

Occupancy Classification: (IBC 311)
S2
Type Of Construction Classification: (IBCmatc 602 AND TABLE 503)
TYPE V–B

Area And Height Limits:
Area: (Table 503)
9,000 SF Per Story Allowable
170 Actual
Height And Stories: (Table 503)
40 Feet, 2 Stories Allowable
15 Feet 2 Stories Actual

Occupancy / Egress:
Design Occupancy (Table1004.1.2)
= 2
Maximum Occupant Load Each Exit = 2
Required Exits (Table 1021.2) = 1
Exits Provided = 1

Energy Conservation Requirements:
This Building is Insulated and Heated.

Additional Requirements:
ACCESSIBLE DRINKING FOUNTAIN AND TOILET FACILITIES SHALL COMPLY WITH ICC/ANSI 117.1, SEE SECITON 603 THOROUGH 609
EXIT SIGNS REQUIRED (IBC 1013)
MEANS OF EGRESS ILLUMINATION REQUIRED (IBC 1006)

NO.	REVISION DESCRIPTION	BY	DATE

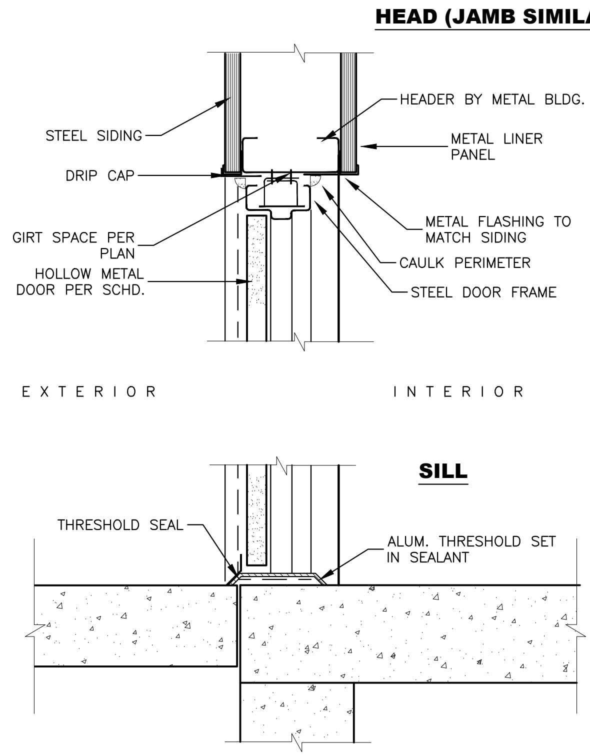
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

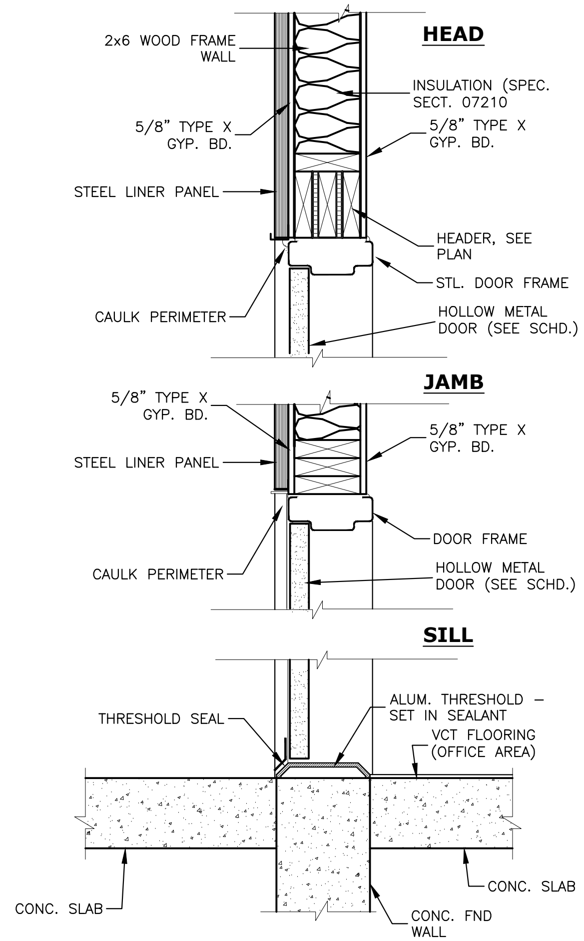
GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ARCHITECTURAL NOTES AND SCHEDULES

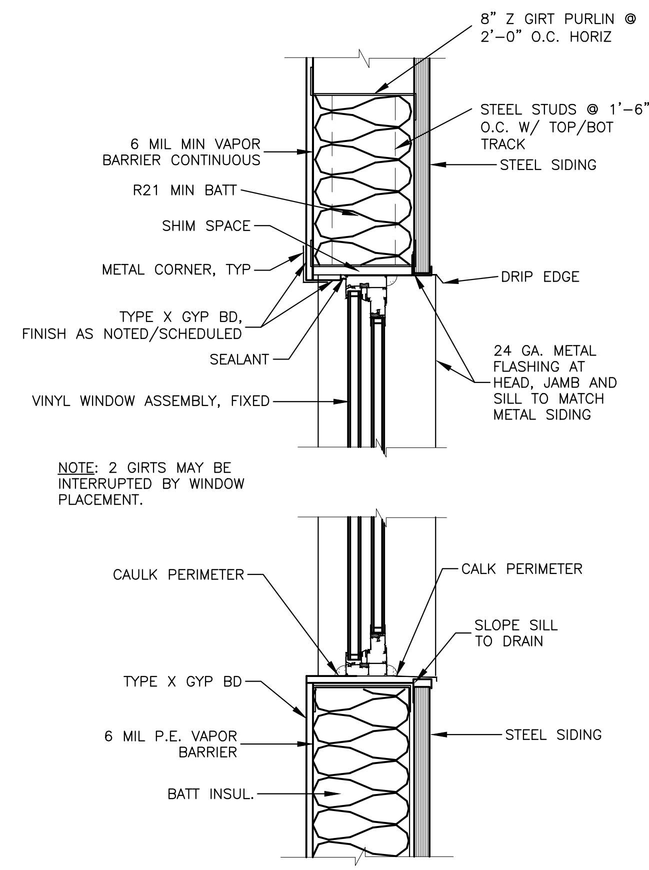
SHEET NO.
A100



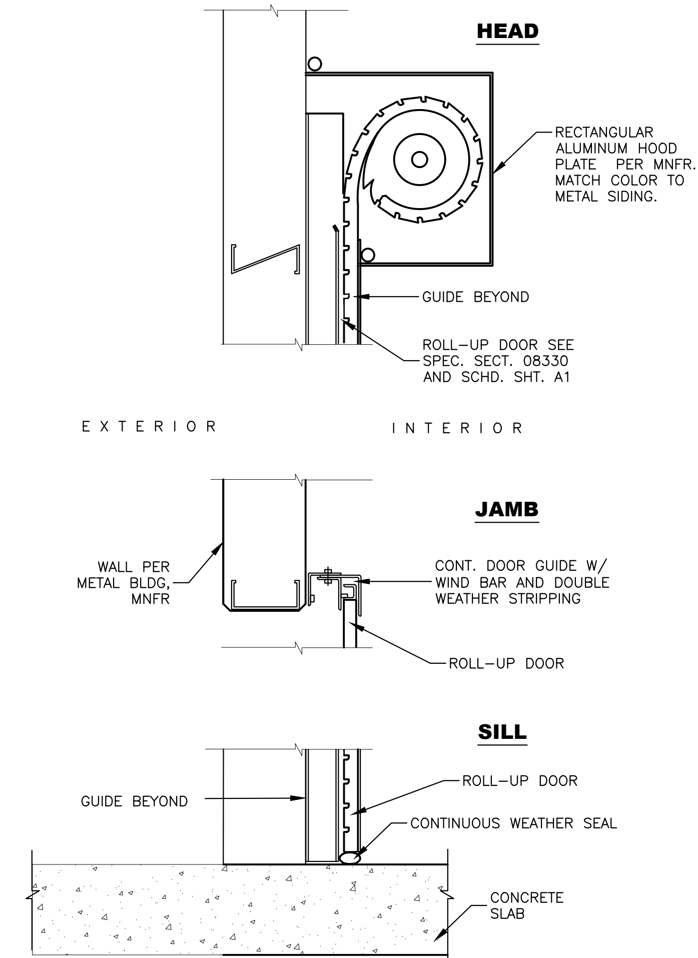
1 / A101 **DOOR OPENING**
Scale: 3/4" = 1'-0"



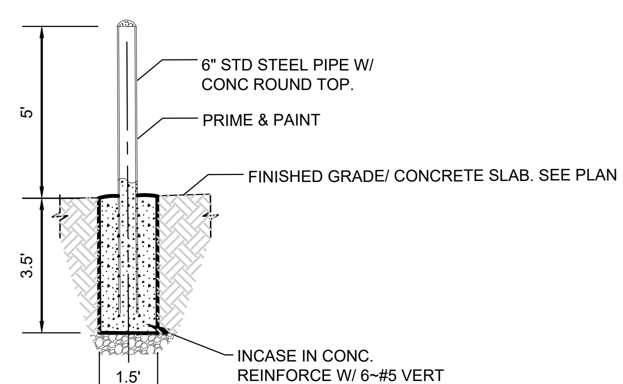
2 / A101 **DOOR OPENING**
3/4" = 1'-0"



3 / A101 **WINDOW OPENING**
3/4" = 1'-0"



4 / A101 **ROLL-UP DOOR OPENING**
Scale: 3/4" = 1'-0"



5 / A101 **STANDARD INTERIOR BOLLARD**
NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ARCHITECTURAL DETAILS

SHEET NO.
A101

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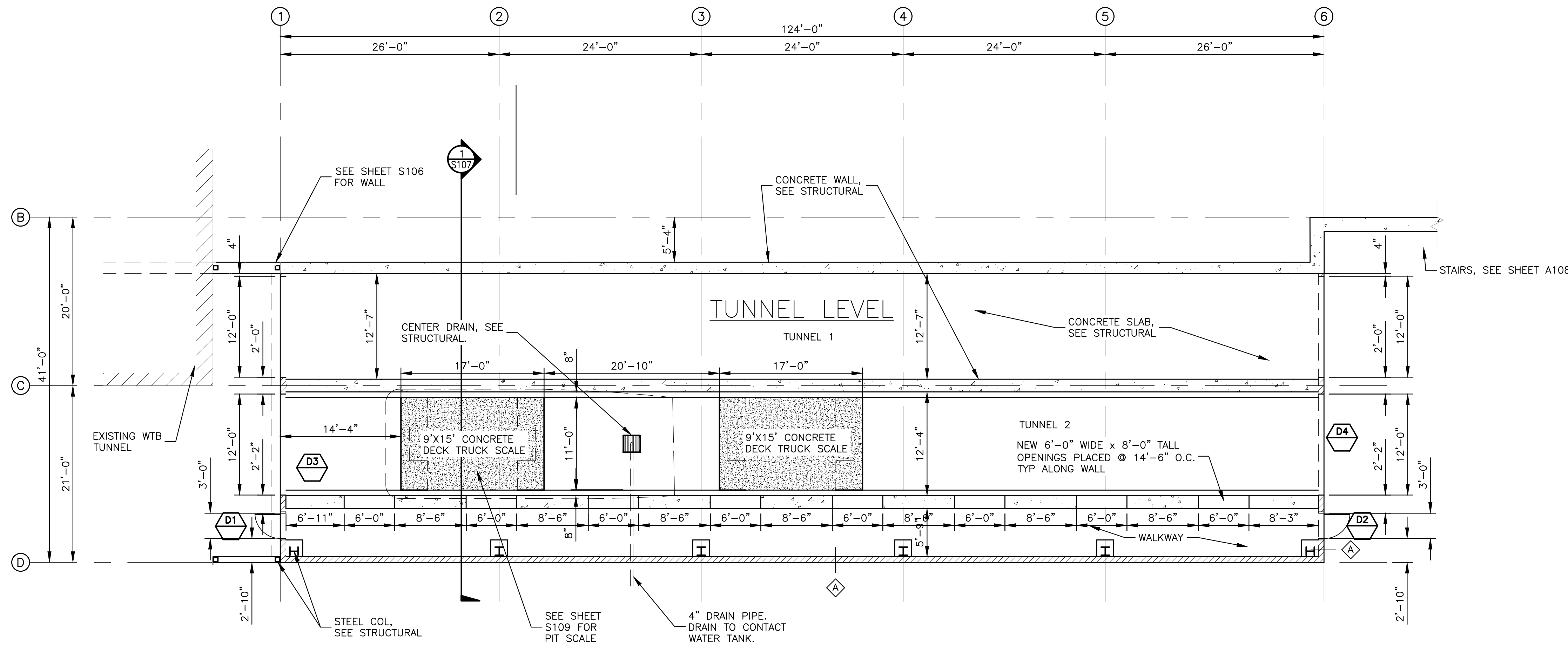

FLOOR PLAN - TUNNEL LEVEL

SCALE: 1/16" = 1'-0" REF F.F. ELEV = 83'-0" = ACTUAL ELEV 2207.0

LEGEND

X WALL CALLOUT, SEE SHEET A100

D1 DOOR CALLOUT, SEE SHEET A100

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\A102 COLBURN - TUNNEL LEVEL FLOOR PLAN.dwg

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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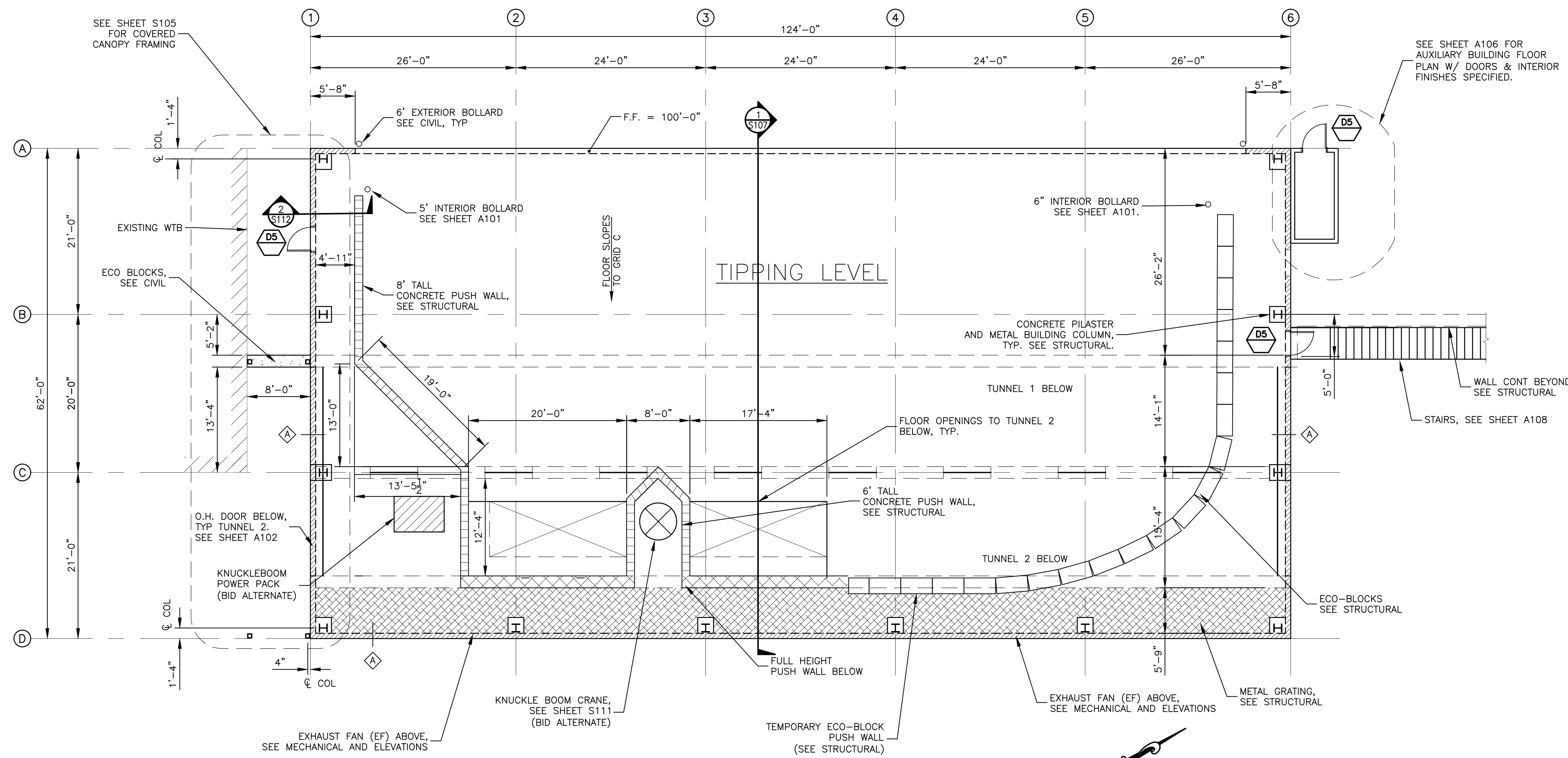
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
TUNNEL LEVEL FLOOR PLAN

SHEET NO.
A102



FLOOR PLAN - TIPPING LEVEL

SCALE: 1/16" = 1'-0"
REF FF ELEV = 100'-0"

LEGEND

DX	DOOR CALLOUT, SEE SHEET A100
X	WALL CALLOUT, SEE SHEET A100
○	INTERIOR/ EXTERIOR BOLLARDS. SEE PLAN, CIVIL SHEETS AND SHEET A101. COORDINATE W/ TRADES AND OWNER ON FINAL LOCATION

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
TIPPING LEVEL FLOOR PLAN

SHEET NO.
A103

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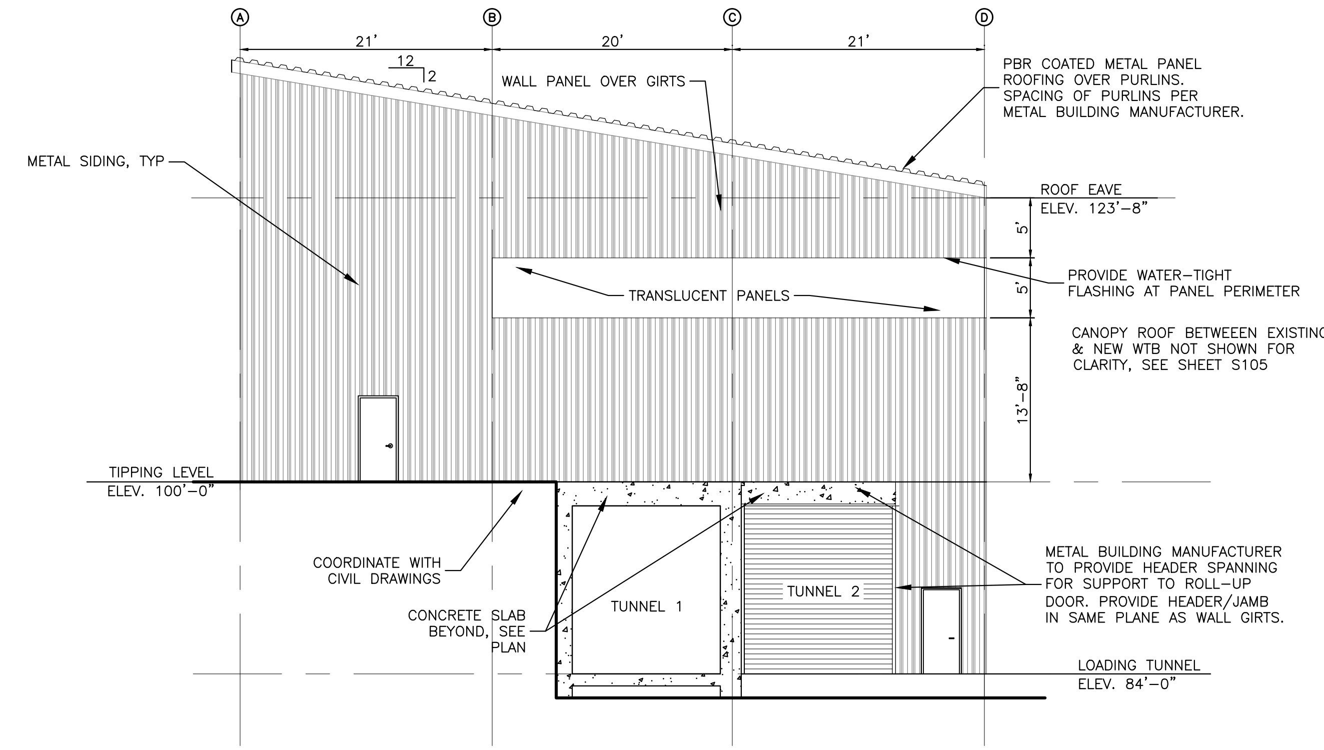
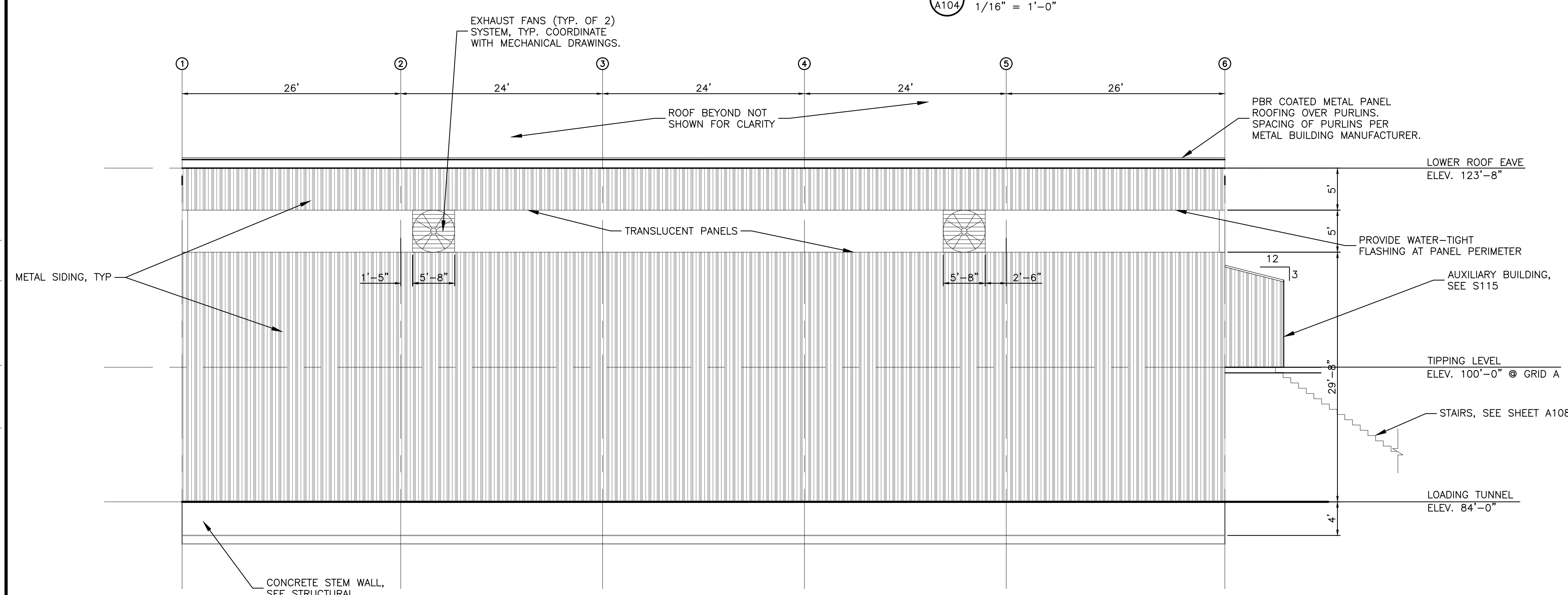


1 A104 **EXTERIOR ELEVATION SOUTH**
1/16" = 1'-0"



2 A104 **EXTERIOR ELEVATION EAST**
1/16" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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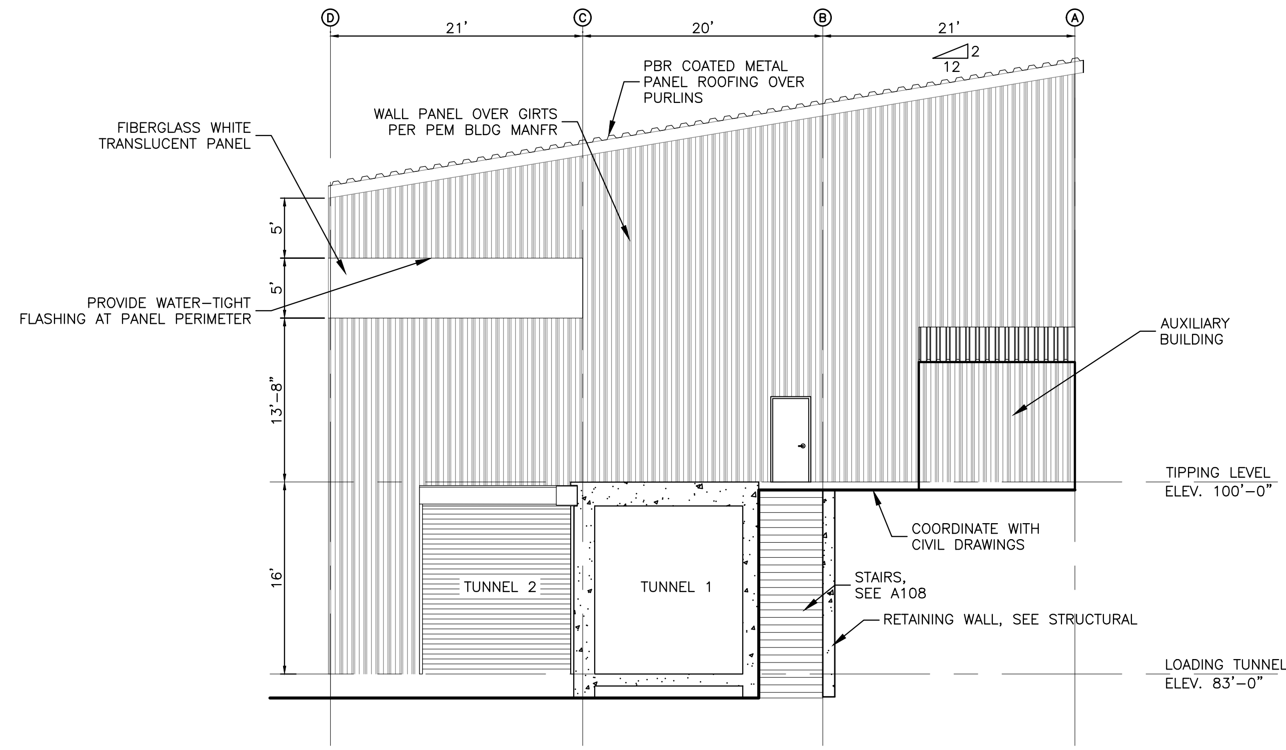
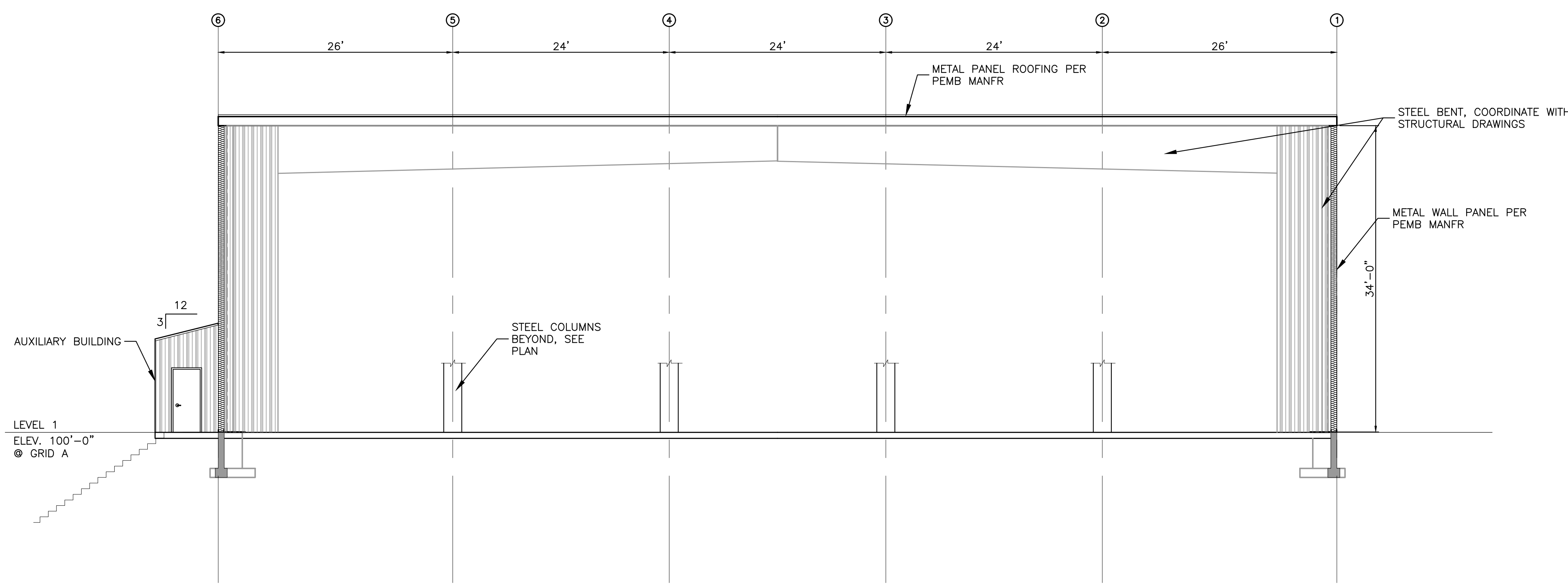
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB BUILDING ELEVATIONS SOUTH & EAST

SHEET NO.
A104



1
A105
EXTERIOR ELEVATION NORTH
1/16" = 1'-0"



2
A105
EXTERIOR ELEVATION WEST
1/16" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB BUILDING ELEVATIONS NORTH & WEST

SHEET NO.
A105

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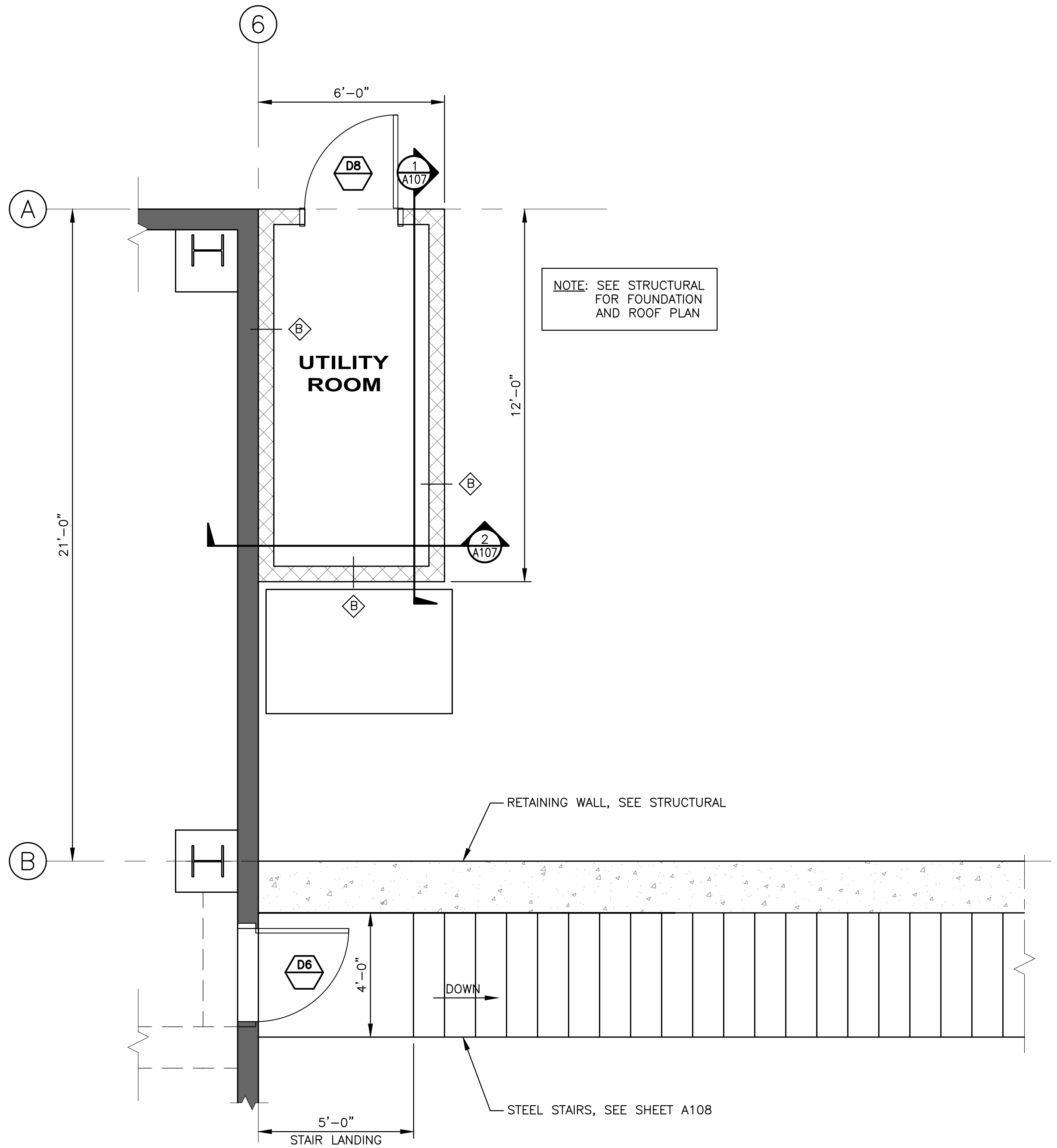

ENLARGED AUXILIARY BUILDING FLOOR PLAN

SCALE: 3/16" = 1'-0" F.F. ELEV. = 100'-0" = ACTUAL ELEV. XXX

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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3050 N. LAKEHARBOR LANE SUITE 201
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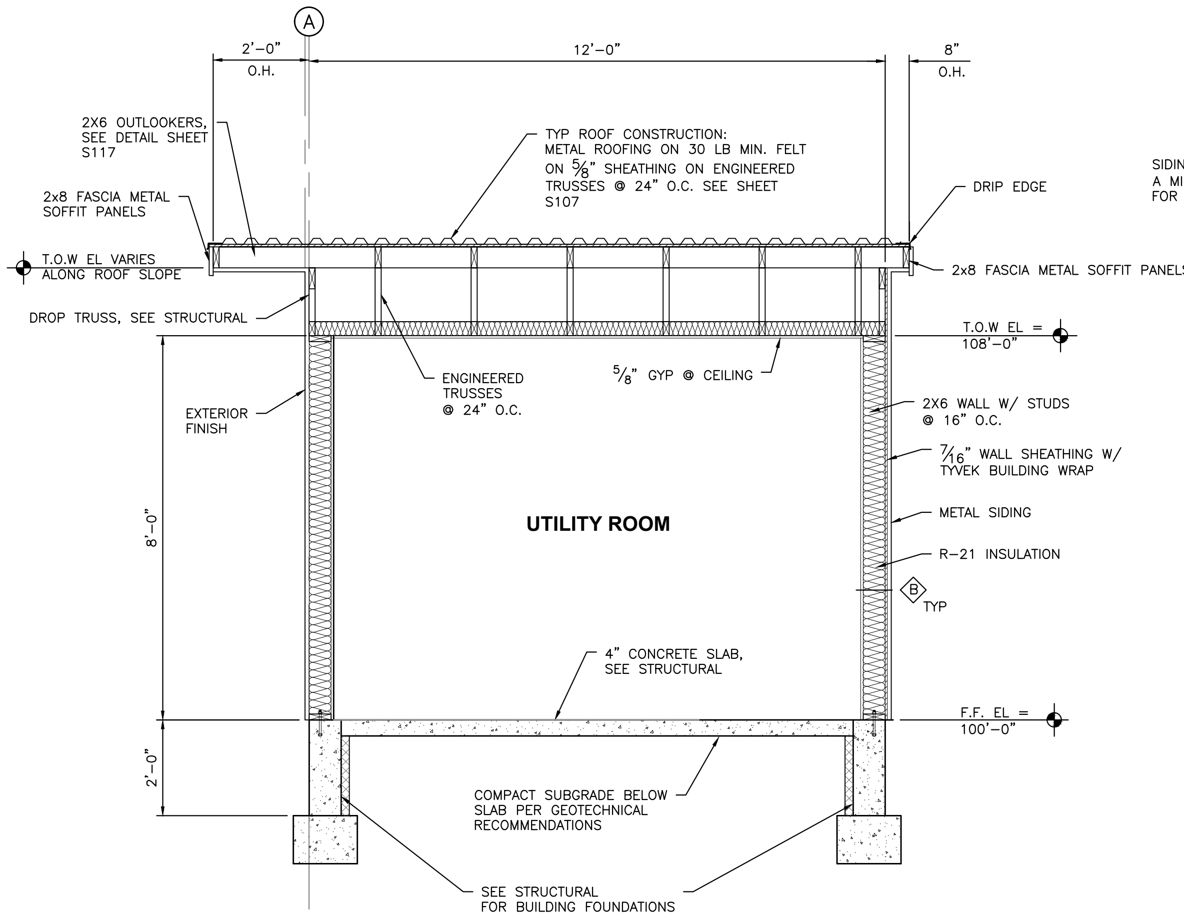
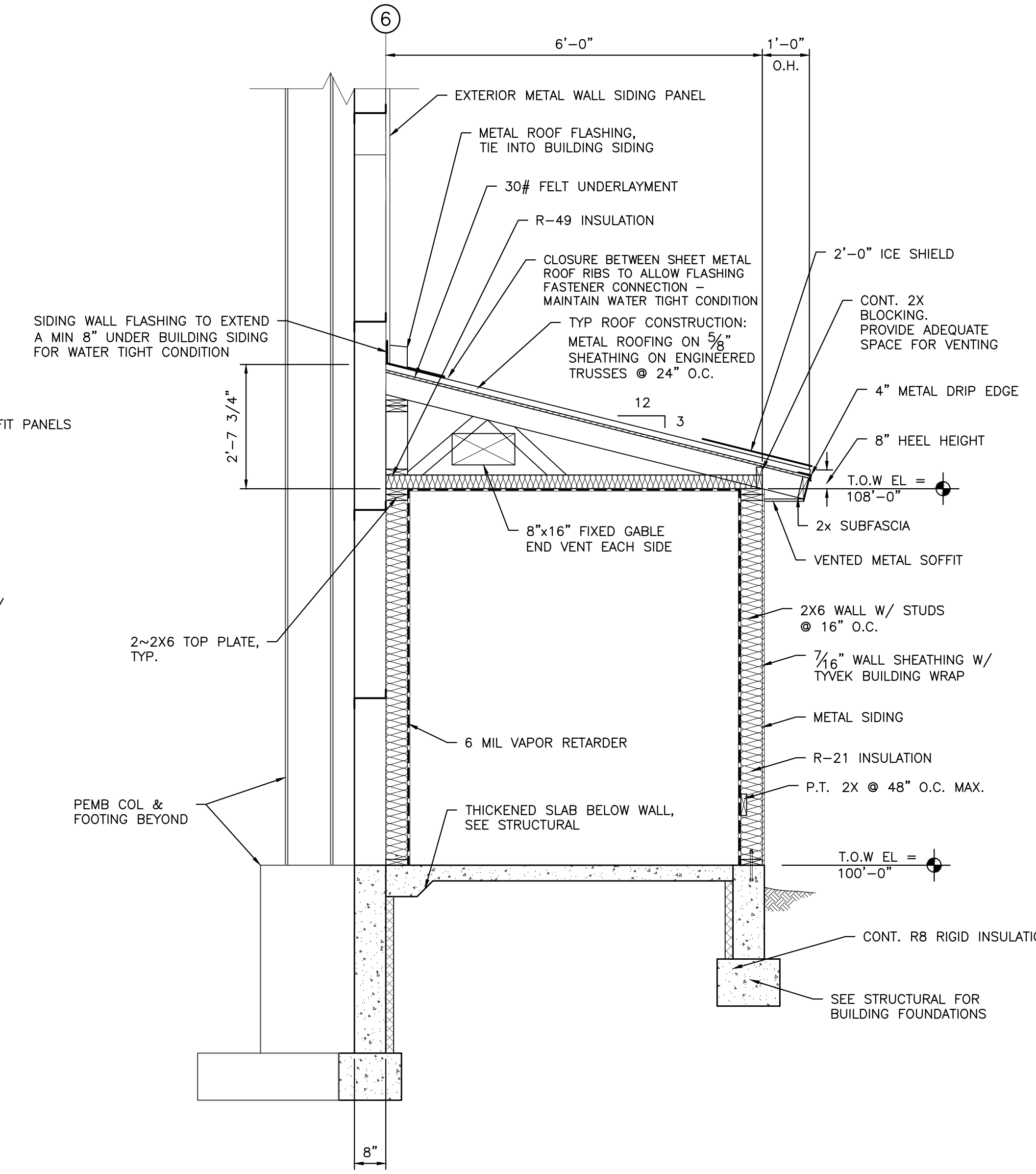
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
AUXILIARY BUILDING FLOOR PLAN

SHEET NO.
A106



1 / S107 **AUXILLARY BUILDING SECTION**
SCALE: 1/4" = 1'-0"



2 / A107 **AUXILLARY BUILDING SECTION**
SCALE: 1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
AUXILLARY BUILDNG SECTION

SHEET NO.
A107

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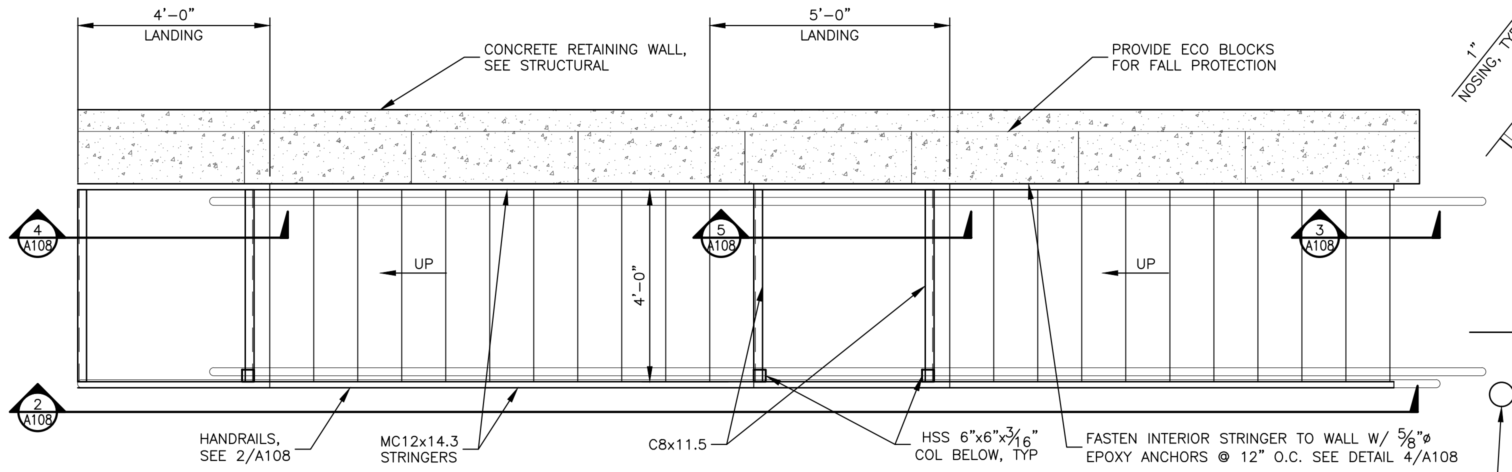
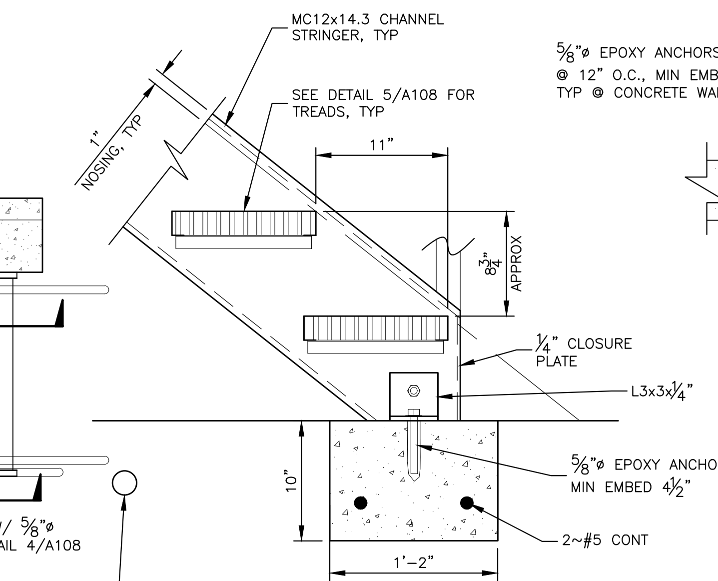
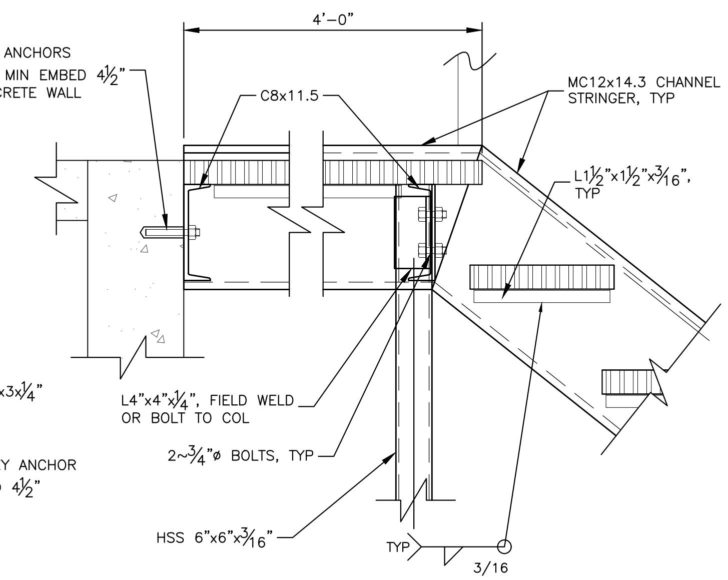


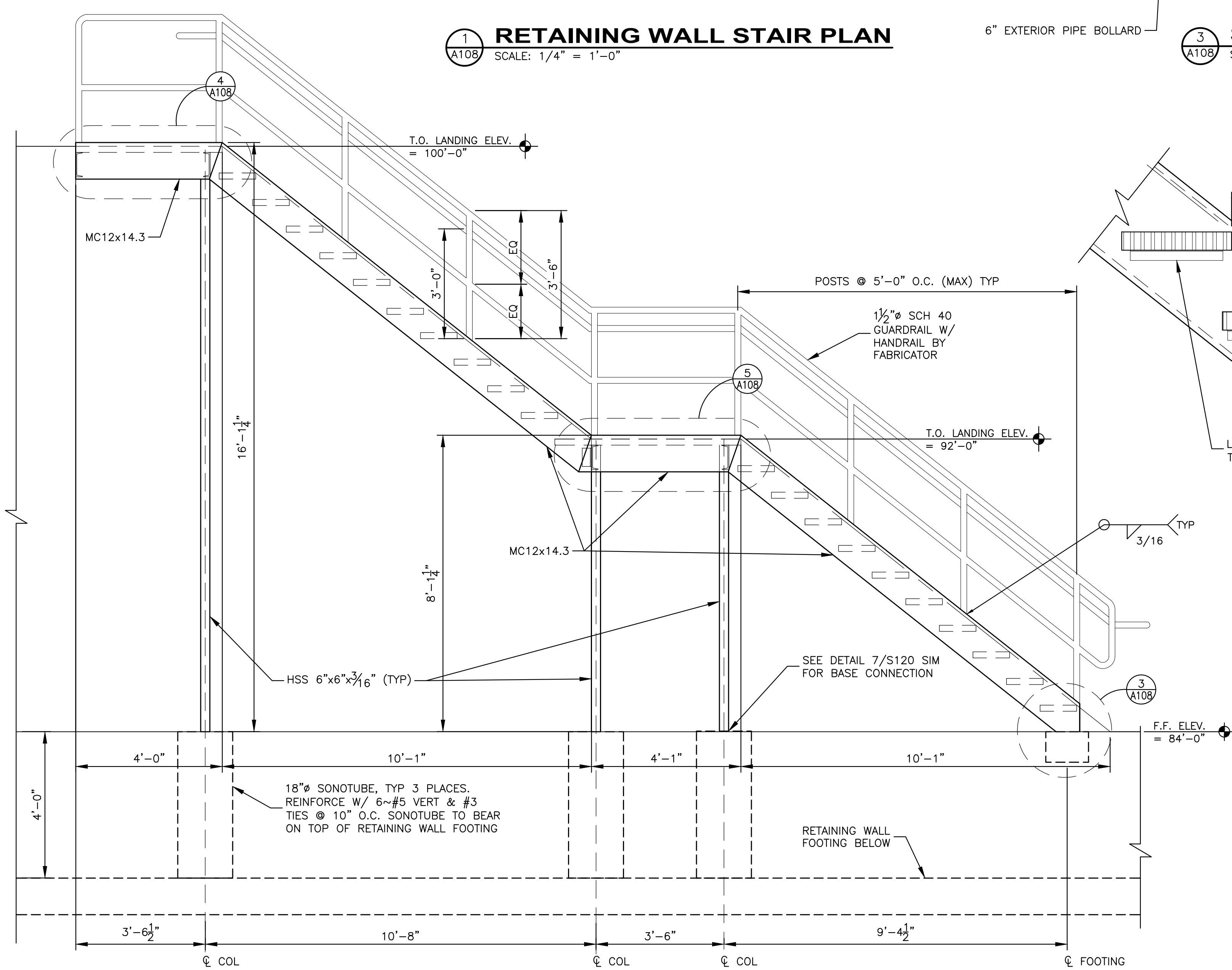
1 A108 **RETAINING WALL STAIR PLAN**
SCALE: 1/4" = 1'-0"



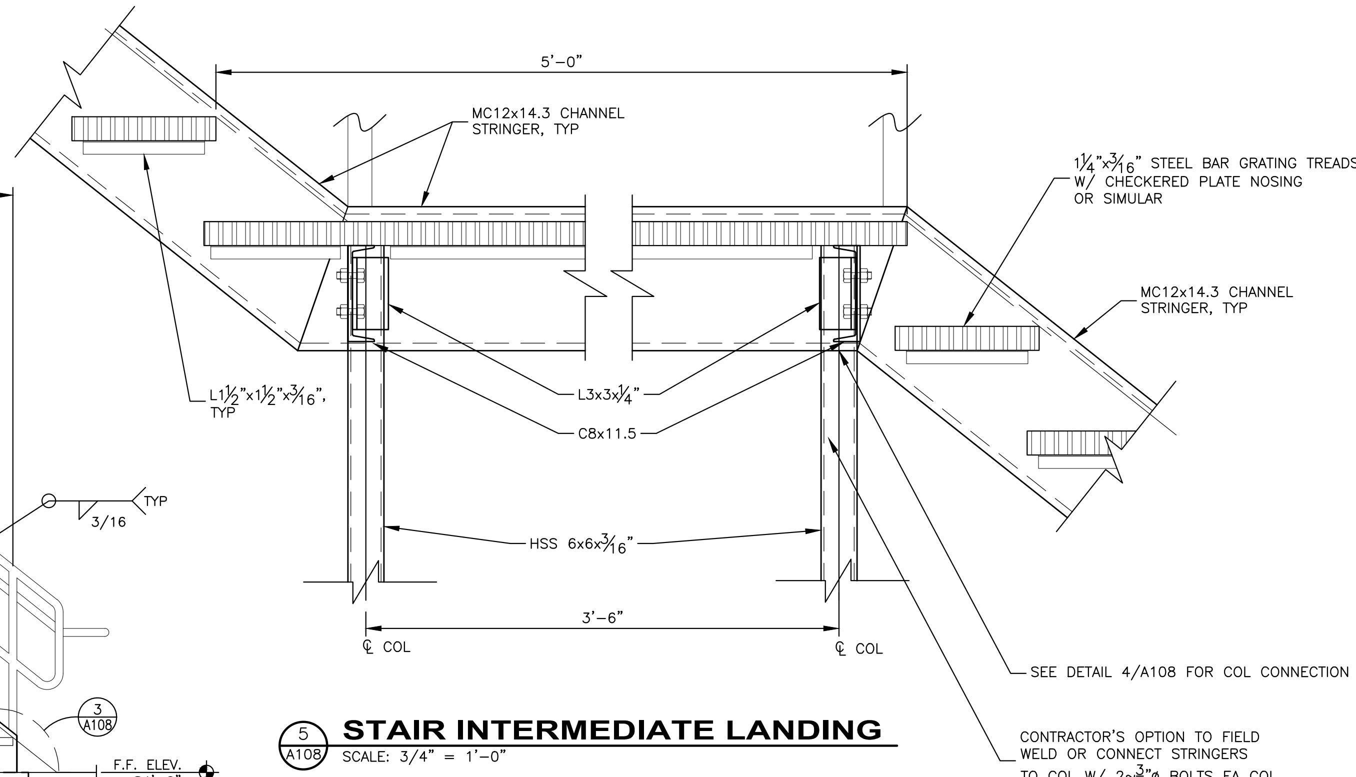
3 A108 **STAIR BOTTOM LANDING**
SCALE: 3/4" = 1'-0"



4 A108 **STAIR TOP LANDING**
SCALE: 3/4" = 1'-0"



2 A108 **RETAINING WALL STAIR PROFILE**
SCALE: 1/4" = 1'-0"
REF F.F. ELEV. = 84'-0"



5 A108 **STAIR INTERMEDIATE LANDING**
SCALE: 3/4" = 1'-0"

NOTES:
1. STEEL TO BE POWDER COATED & PAINTED. COORDINATE COLOR OPTION W/ OWNER.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB STRUCTURE - STAIR PROFILE & DETAILS

SHEET NO.
A108

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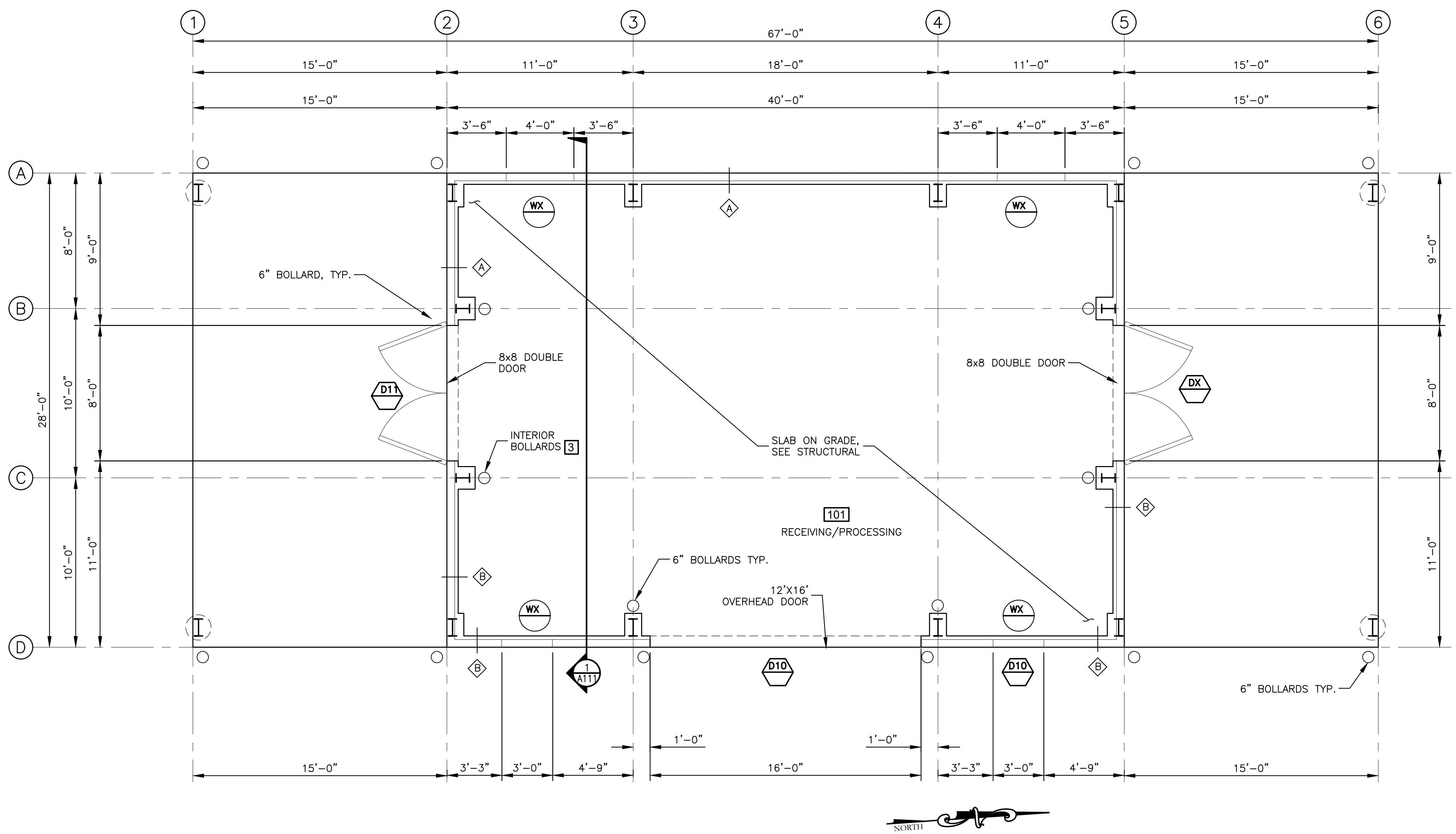

CFC REMOVAL BUILDING FLOOR PLAN

SCALE: 1/8" = 1'–0"

LEGEND

- DX — DOOR CALLOUT, SEE SHEET A100
- WX — WINDOW CALLOUT, SEE SHEET A100
- X — WALL CALLOUT, SEE SHEET A100
- ○ — INTERIOR/ EXTERIOR BOLLARDS. SEE PLAN, CIVIL SHEETS AND SHEET A101. COORDINATE W/ TRADES AND OWNER ON FINAL LOCATION
- WINDOW ABOVE. SEE ELEVATIONS AND SHEET A101

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NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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BOISE, ID 83703
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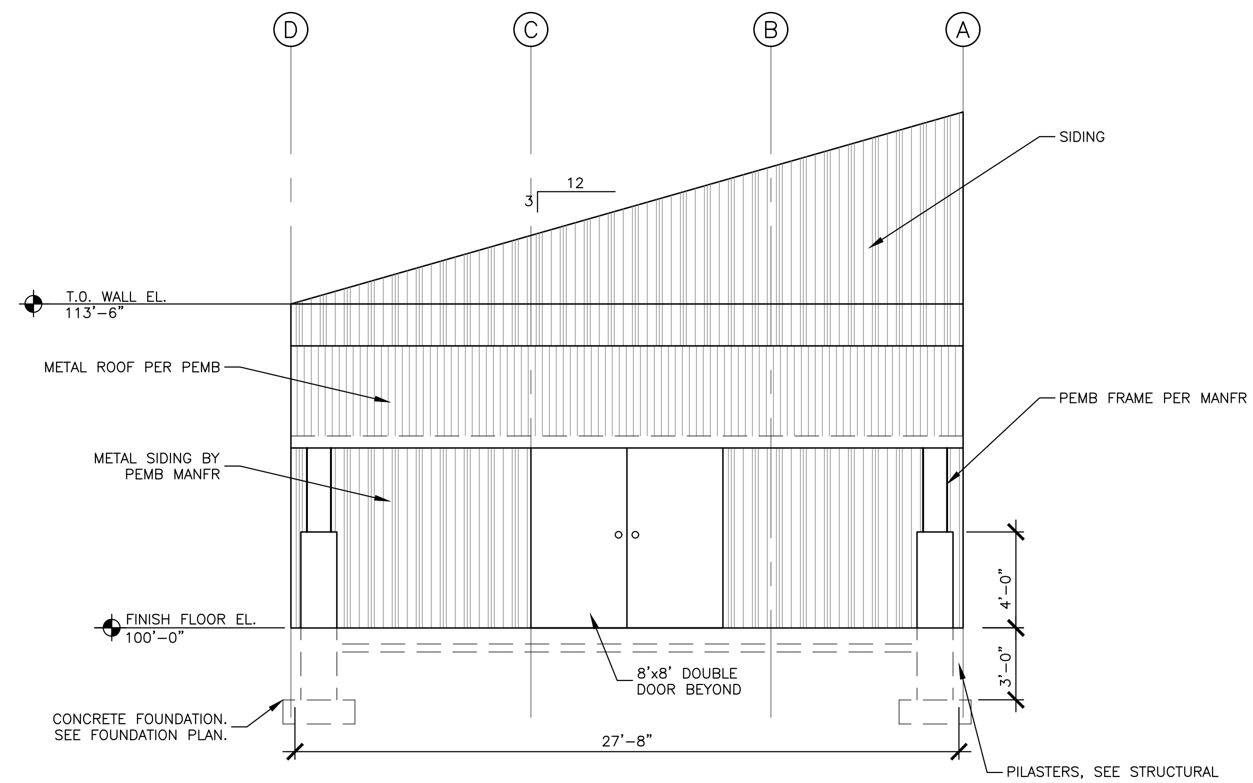
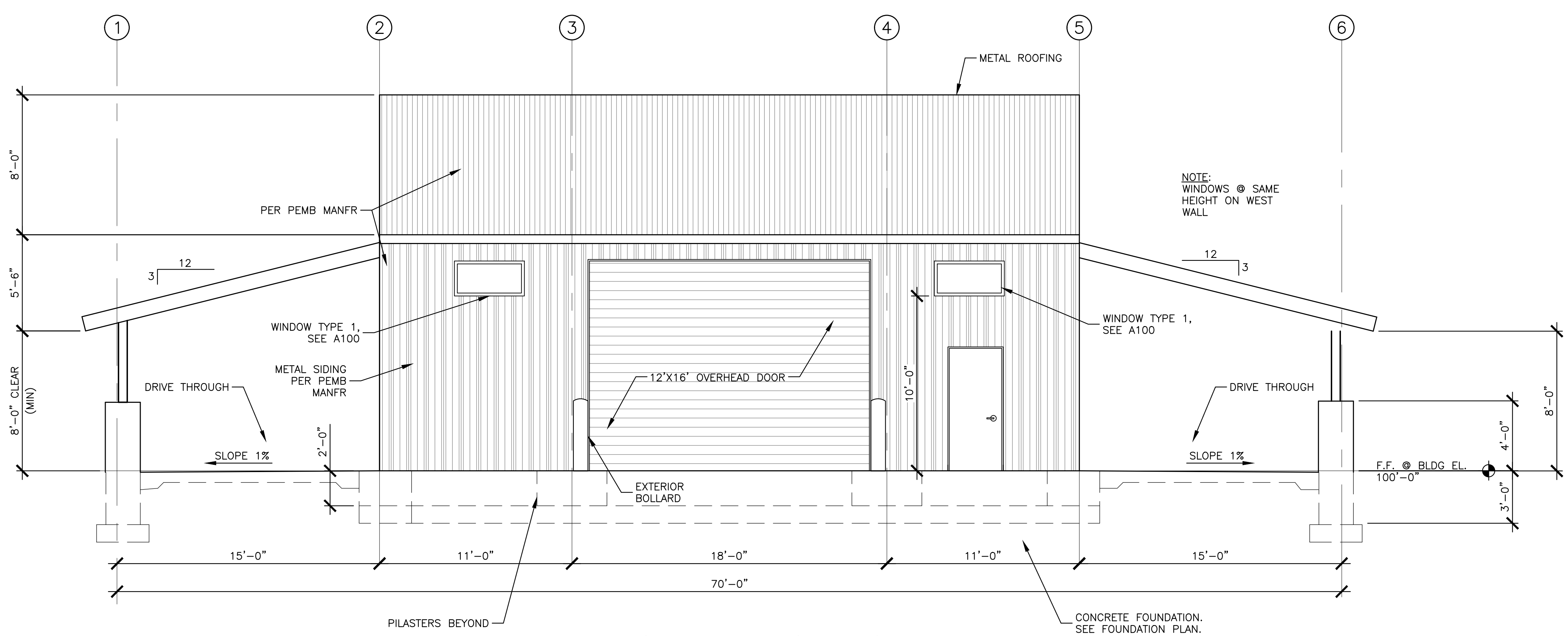
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL BUILDING FLOOR PLAN

SHEET NO.
A109



1
A110
EXTERIOR ELEVATION SOUTH
1/8" = 1'-0"



2
A110
EXTERIOR ELEVATION EAST
1/8" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER
REGISTERED
9156
2/14/23
STATE OF IDAHO
MARY A. STELLING

GreatWest
ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL BUILDING ELEVATION SOUTH & EAST

SHEET NO.
A110

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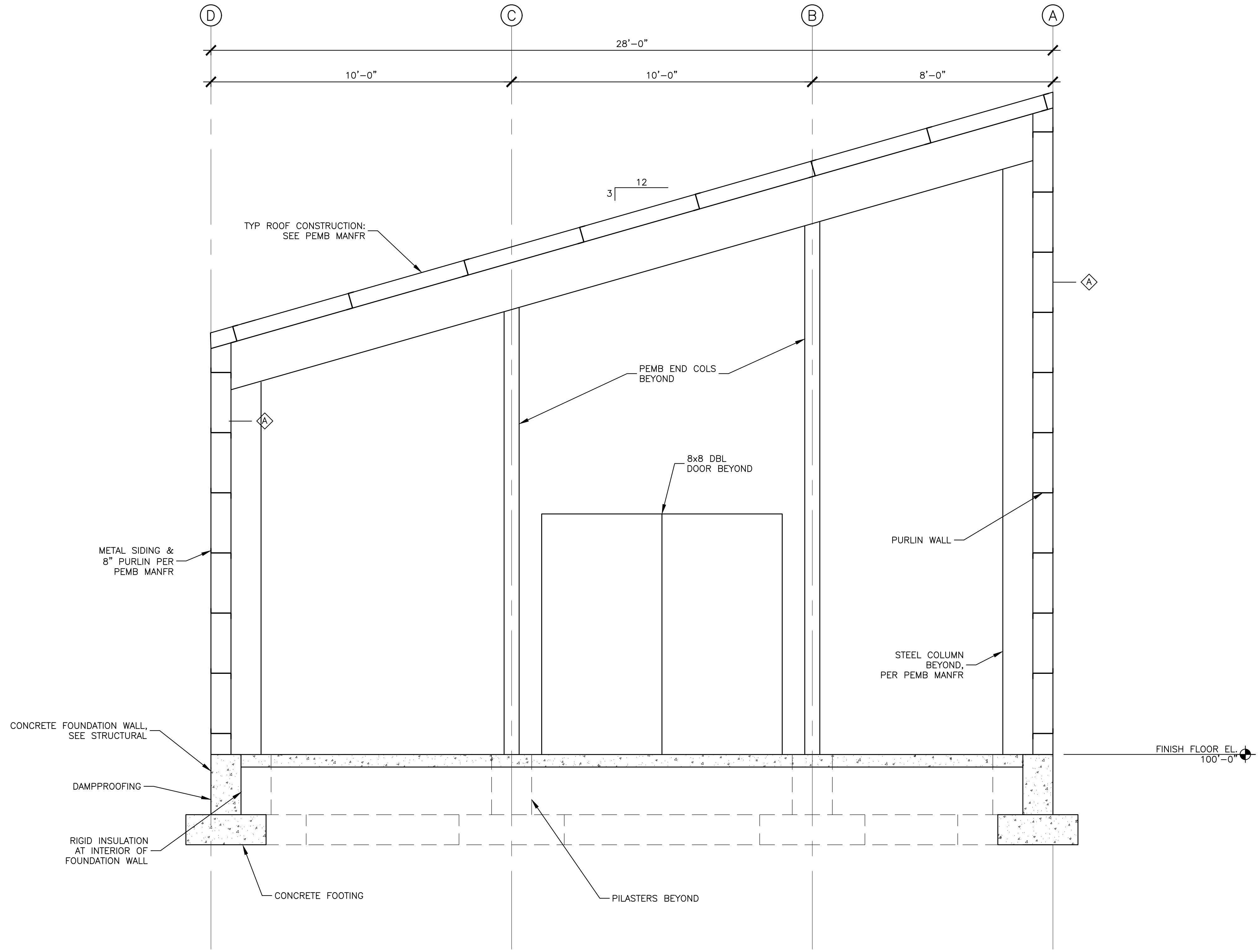

1 A111 CFC REMOVAL BUILDING SECTION

1/4" = 1'–0"

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PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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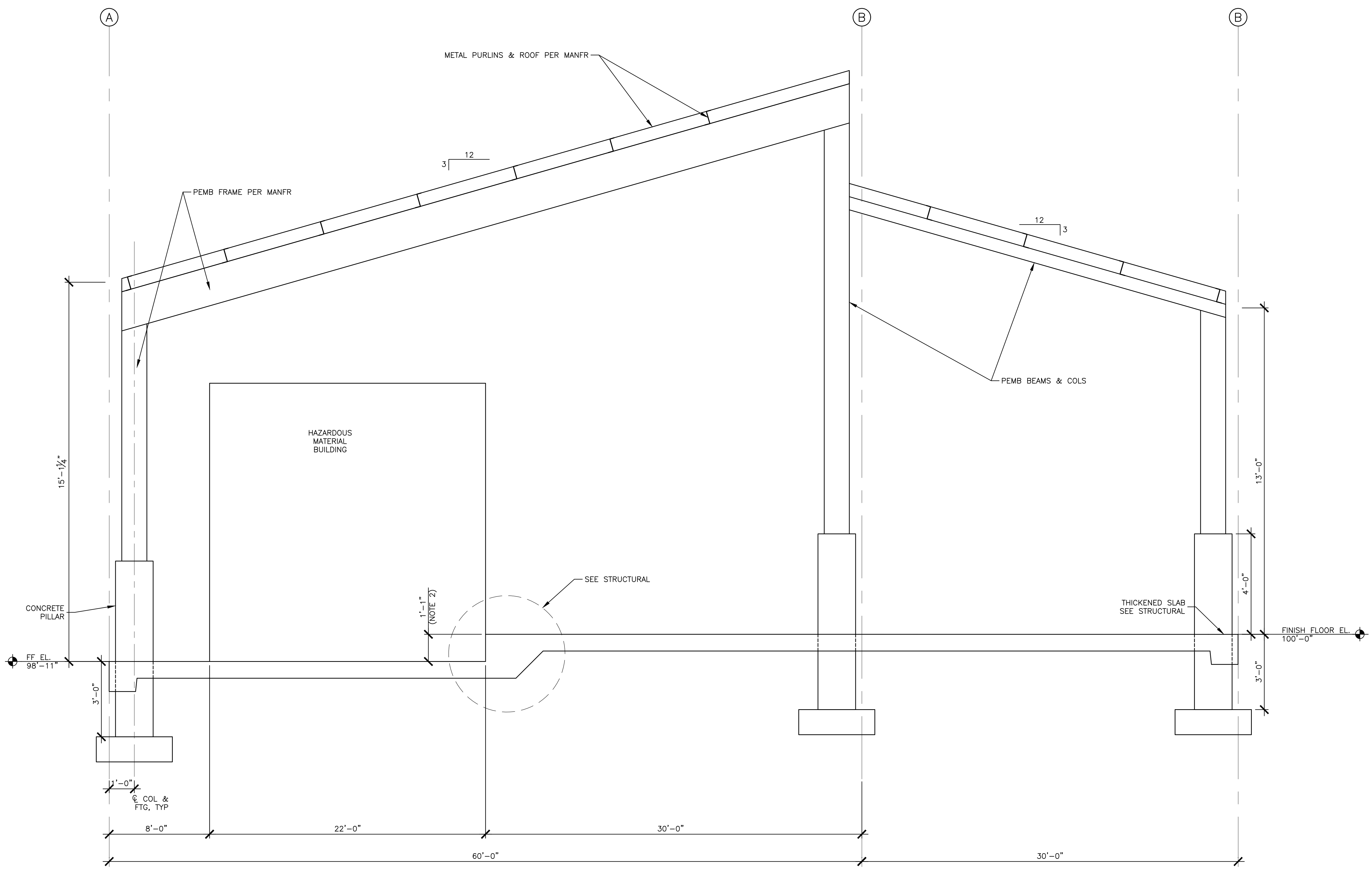
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL BUILDING SECTION

SHEET NO.
A111



1 / A112 **HHW FACILITY SECTION**
1/4" = 1'-0"

NOTES:
1. SEE SHEET S117 FOR PLAN LAYOUT.
2. COORDINATE WITH HHW BUILDING MANUFACTURER FOR EXACT MEASUREMENTS TO MAKE DOOR THRESHOLD FLUSH W/ ADJACENT SLAB

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER
REGISTERED
9156
2/14/23
STATE OF IDAHO
MARY A. STELLING

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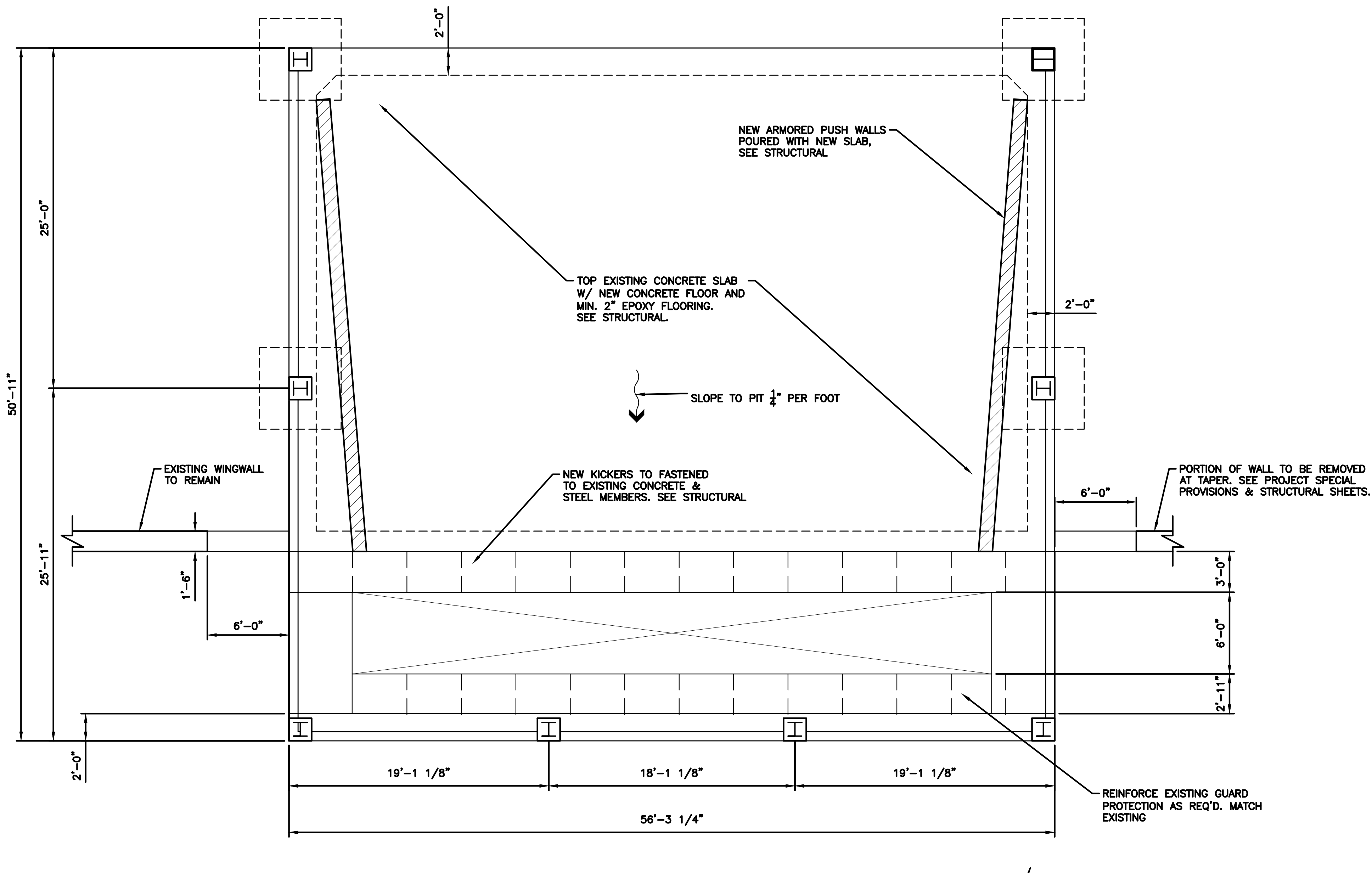
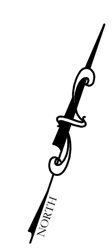
ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
HHW FACILITY ELEVATION

SHEET NO.
A112





EXISTING BUILDING PLAN - TIPPING LEVEL

SCALE: 1"=10'

0 5 10
SCALE IN FEET

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NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER
REGISTERED
9156
2/14/23
STATE OF IDAHO
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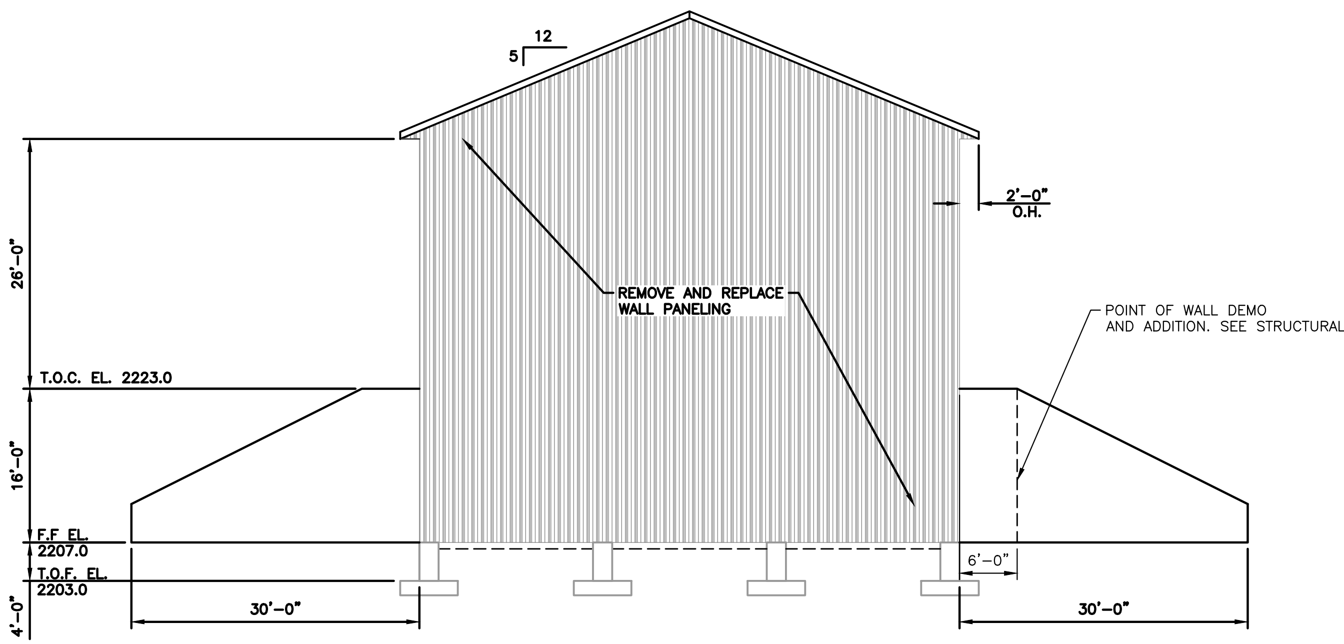
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

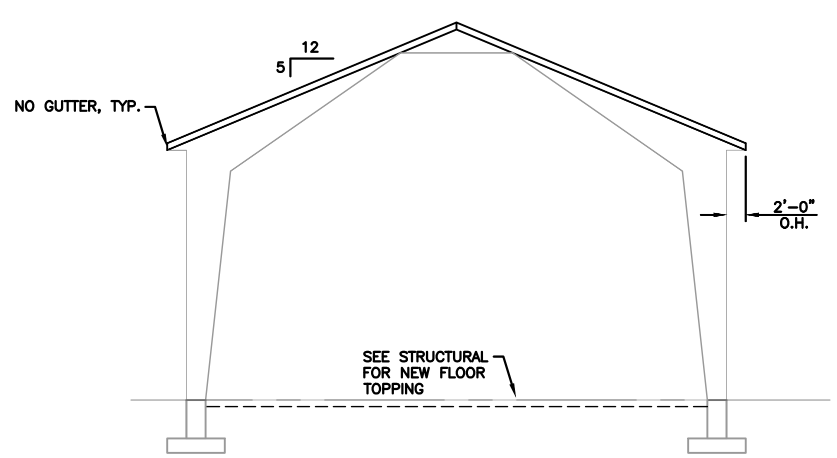
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
EXST WTB FLOOR PLAN - TIPPING LEVEL

SHEET NO.
A113



EAST ELEVATION

SCALE: 1"=20'



WEST ELEVATION

SCALE: 1"=20'

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
EXIST WTB BUILDING ELEVATIONS

SHEET NO.
A114

STRUCTURAL NOTES
NEW WOOD WTB AUXILIARY BUILDING

1. GENERAL:
   A. FOUNDATION DESIGN IS IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.
   B. VERIFY ALL DIMENSIONS IN THE FIELD.
   C. THE STRUCTURES ARE DESIGNED AS COMPLETE STRUCTURAL UNITS AND THE CONTRACTOR SHALL SUPPORT ALL PARTS AS NECESSARY UNTIL THE ENTIRE CONSTRUCTION IS COMPLETE.
2. DESIGN LOADS:
   A. VERTICAL:
      ROOF SNOW LOAD 55 PSF
      ROOF DEAD LOAD 15 PSF
   B. HORIZONTAL:
      (1) WIND
         BASIC WIND SPEED = 103 MPH (3 SECOND GUST)
         EXPOSURE C
         RISK CATEGORY = II
      (2) SEISMIC
         RISK CATEGORY II; DESIGN CATEGORY A; SITE CLASS D
         IMPORTANCE FACTOR = 1.0
         ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, SDs= 34.1%, SD1= 17.8%
         SEISMIC FORCE RESISTING SYSTEM: WOOD SHEAR WALLS.
   C. MAXIMUM ALLOWABLE SOIL BEARING PRESSURE: 3000 PSF
3. FOUNDATIONS:
   A. FOOTINGS SHALL BE SUPPORTED ON NATIVE SAND MATERIAL OR IMPORTED STRUCTURAL FILL. REFER TO GEOTECHNICAL ENGINEERING REPORT BY GPI DATED FEBRUARY 2023.
4. MATERIALS:
   A. CAST-IN-PLACE CONCRETE:
      (1) HARDROCK CONCRETE (UNIT WT. = 150 PCF)
         (A) F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) – ALL EXTERIOR CONCRETE INCLUDING GRADE BEAMS, SIDEWALKS, SLABS, PADS, CURBS, AND GUTTERS.
         (B) F'C = 4000 PSI @ 28 DAYS – ALL INTERIOR CAST-IN-PLACE CONCRETE INCLUDING INTERIOR SLABS ON GRADE.
         (C) USE CONCRETE WITH; MINIMUM CEMENT CONTENT 5 1/2 SACKS PER CUBIC YARD, MAXIMUM AGGREGATE SIZE OF 3/4", AIR CONTENT 4% TO 6% AND MAXIMUM SLUMP OF 4 INCHES AT EXTERIOR. INTERIOR CONCRETE AIR CONTENT 2% TO 3%.
         (D) CONFORM TO ACI 301.
   B. REINFORCING STEEL:
      (1) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, EXCEPT GRADE 40 MAY BE USED FOR TIES AND STIRRUPS.
      (2) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE:
         (A) BAR SPLICES IN CONCRETE: 38 BAR DIA. OR 18" MINIMUM.
      (3) PROVIDE CORNER BARS TO MATCH HORIZONTAL BARS IN ALL WALLS AND FOOTINGS.
      (4) PROVIDE ALL CHAIRS, SUPPORTS, TIE BARS, ETC., NECESSARY TO HOLD MAIN REINFORCING IN PLACE.
      (5) REINFORCING SHOWN IN SECTION APPLIES FOR FULL LENGTH OF WALL OR SLAB.
      (6) LOCATE REINFORCING AT SURFACE SHOWN WITH COVER OF 1 1/2" AT FORMED SURFACES IN CONTACT WITH DIRT AND 3" AT BOTTOM OF BEAMS AND SLABS. LOCATE REINFORCING AT CENTER WHERE NOT OTHERWISE INDICATED.
      (7) UNLESS SHOWN OTHERWISE, PROVIDE 2-#5 OVER AND EACH SIDE OF DOOR DEPRESSIONS IN WALLS.
   C. ANCHOR BOLTS:
      (1) ASTM F1554 GRADE 36 HEADED ANCHOR BOLTS. SEE SCHEDULE FOR SIZE AND LENGTH.
      (2) DO NOT SUBSTITUTE EXPANSION OR EPOXY ANCHORS FOR ANCHOR BOLTS UNLESS APPROVED BY THE ENGINEER.
      (3) PROVIDE MIN. 3"X3"X0.229" METAL PLATE WASHERS BETWEEN SILL PLATE AND NUT. PLACE WASHER SUCH THAT EDGE OF WASHER IS LOCATED WITHIN 1/2" FROM FACE OF SHEATHING.
   D. EPOXY ANCHORS (USE ONLY WITH PRIOR APPROVAL FROM ENGINEER):
      (1) USE A307 THREADED RODS WITH A 2 COMPONENT INJECTED EPOXY SYSTEM SUCH AS HILTI HIT.

   E. WOOD FRAMING:
      (1) ALL FRAMING SHOWN ON STRUCTURAL PLANS IS LOAD BEARING WOOD FRAMING. USE HEM FIR GRADED IN ACCORDANCE WITH WWPA TO #1 OR BETTER FOR 2X10 AND LARGER STRUCTURAL WOOD FRAMING. USE HEM FIR GRADED TO #2 OR BETTER FOR 2X8 AND SMALLER STRUCTURAL WOOD FRAMING, EXCEPT WHERE NOTED ON PLANS.
      (2) USE APA RATED SHEATHING AS FOLLOWS:
         (A) ROOF: 5/8" 40/20 CD EXT APA RATED SHEATHING
         (B) WALLS: 15/32" 32/16 CD EXT APA RATED SHEATHING
      (3) PLACE ROOF SHEATHING WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND JOINTS STAGGERED OVER SUPPORTS. PLACE WALL SHEATHING WITH FACE GRAIN VERTICAL. NAIL ROOF SHEATHING WITH 10d NAILS, DO NOT STAPLE. NAIL PER NOTES UNLESS SHOWN OTHERWISE:
         (A) ROOF SHEATHING: FASTEN SHEATHING AT 6" ALONG TOP OF EXT. WALLS, 6" ALONG ALL OTHER PANEL EDGES AND 12" ALONG INTERMEDIATE SUPPORTS.
         (B) WALL SHEATHING: U.N.O. FASTEN AT 6" ALONG TOP AND BOTTOM OF WALLS AT PLATES, 6" AT VERTICAL EDGES AND HORIZONTAL JOINTS, AND 12" AT INTERMEDIATE SUPPORTS. PROVIDE SOLID BLOCKING AT ALL HORIZONTAL SHEATHING JOINTS. SEE SHEAR WALL SCHEDULE AND DETAIL, SHEET S5.
      (4) ALL BUILT-UP WOOD BEAMS ARE TO BE MADE FROM STRUCTURAL LUMBER PIECES THAT ARE UNSPLICED FULL LENGTH, BEARING TO BEARING. ALL BEAMS BEAR FULL ON POSTS SHOWN. ABUTTING BEAMS ARE TO HAVE BUTT JOINTS TIGHT AND CENTERED OVER POST.
      (5) PROVIDE WASHERS AT EACH END OF ALL BOLTS NOT THROUGH STEEL SIDE PLATES. NAIL ALL HOLES OF FRAMING DEVICES WITH NAILS APPROPRIATE TO DEVICE DESIGN. PRE- DRILL HOLES FOR ALL LAG BOLTS WITH SIZE AS NECESSARY TO PREVENT WOOD SPLITTING. PRESSURE TREAT ALL LUMBER IN CONTACT WITH CONCRETE OR WITHIN 6" OF GROUND. PLACE SOLID BLOCKING BETWEEN JOIST BEARINGS OVER ALL SUPPORTING BEAMS OR WALLS. FOR ALL NAILING NOT SHOWN OTHERWISE, CONFORM TO IBC TABLE 2304.9.1.
   F. WOOD CONSTRUCTION CONNECTORS:
      (1) SHALL BE BY SIMPSON CO. OR AN APPROVED EQUAL, WITH CONNECTIONS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
   G. WOOD TRUSSES:
      (1) USE METAL PLATE CONNECTED WOOD TRUSSES DESIGNED, ERECTED, AND BRACED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE FOR THE FOLLOWING LOADS:
         TOP CHORD LIVE LOAD: 55 PSF SNOW
         TOP CHORD DEAD LOAD: 8 PSF
         BOTTOM CHORD DEAD LOAD: 7 PSF
      (2) DESIGN TRUSSES FOR DRIFT LOADS AS SHOWN ON ROOF FRAMING PLAN AS WELL AS AN UNBALANCED SNOW LOAD. UNBALANCED SNOW LOADS SHALL ALSO BE CONSIDERED OPPOSITE HAND.
      (3) DESIGN TRUSSES FOR NET UPLIFT OF 5 PSF.
      (4) INSTALL AND BRACE TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE W/ BCSI-2008 – "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES".

STRUCTURAL NOTES
PRE-ENGINEERED METAL BUILDINGS, NEW AND EXISTING WASTE TRANSFER BUILDINGS, HHW FACILITY, AND CFC REMOVAL BUILDING

1. GENERAL:
   A. FOUNDATION DESIGN IS IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.
   B. VERIFY ALL DIMENSIONS IN THE FIELD.
   C. THE STRUCTURE IS DESIGNED AS A COMPLETE STRUCTURAL UNIT AND THE CONTRACTOR SHALL SUPPORT ALL PARTS AS NECESSARY UNTIL THE ENTIRE CONSTRUCTION IS COMPLETE.
2. DESIGN LOADS:
   A. VERTICAL:
      ROOF SNOW LOAD PER BLDG. MANUFACTURER
      DEAD LOAD PER BLDG. MANUFACTURER
   B. HORIZONTAL:
      (1) WIND – PER BUILDING MANUFACTURER.
      (2) SEISMIC – PER BUILDING MANUFACTURER.
3. FOUNDATIONS:
   A. FOOTINGS SHALL BE SUPPORTED ON NATIVE SAND MATERIAL OR IMPORTED STRUCTURAL FILL COMPACTED TO 95% MAXIMUM DRY DENSITY BASED ON ASTM D1557. REFER TO GEOTECHNICAL ENGINEERING REPORT BY GPI DATED FEBRUARY 2023.
4. MATERIALS:
   A. CAST-IN-PLACE CONCRETE:
      (1) HARDROCK CONCRETE (UNIT WT. = 150 PCF)
         (A) F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) – ALL EXTERIOR CONCRETE INCLUDING, SIDEWALKS, FOUNDATIONS, RETAINING WALLS, SLABS, PADS, CURBS, AND GUTTERS.
         (B) F'C = 6000 PSI @ 28 DAYS – ALL INTERIOR WTB CAST-IN-PLACE CONCRETE SLABS @ TIPPING FLOORS IN WT BUILDING.
         (C) USE CONCRETE WITH; MINIMUM CEMENT CONTENT 5 1/2 SACKS PER CUBIC YARD, MAXIMUM AGGREGATE SIZE OF 3/4", AIR CONTENT 4% TO 6% AND MAXIMUM SLUMP OF 4 INCHES ON EXTERIOR. INTERIOR CONCRETE AIR CONTENT 2% TO 3%.
         (D) CONFORM TO ACI 301.
   B. REINFORCING STEEL:
      (1) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, EXCEPT GRADE 40 MAY BE USED FOR TIES AND STIRRUPS.
      (2) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE:
         (A) BAR SPLICES IN CONCRETE: 38 BAR DIA. OR 18" MINIMUM.
      (3) PROVIDE CORNER BARS TO MATCH HORIZONTAL BARS IN ALL GRADE BEAMS.
      (4) PROVIDE ALL CHAIRS, SUPPORTS, TIE BARS, ETC., NECESSARY TO HOLD MAIN REINFORCING IN PLACE.
      (5) REINFORCING SHOWN IN SECTION APPLIES FOR FULL LENGTH OF WALL OR SLAB.
      (6) LOCATE REINFORCING AT SURFACE SHOWN WITH COVER OF 1 1/2" AT FORMED SURFACES IN CONTACT WITH DIRT AND 3" AT BOTTOM OF BEAMS AND SLABS. LOCATE REINFORCING AT CENTER WHERE NOT OTHERWISE INDICATED.
      (7) UNLESS SHOWN OTHERWISE, PROVIDE 2-#5 OVER AND EACH SIDE OF DOOR DEPRESSIONS IN GRADE BEAMS.
   C. ANCHOR BOLTS:
      (1) ASTM F1554 GRADE 36 HEADED ANCHOR BOLTS OR AS PERSCRIBED BY BLDG MANUFACTURER. SEE SCHEDULE FOR SIZE AND LENGTH.
      (2) DO NOT SUBSTITUTE EXPANSION OR EPOXY ANCHORS FOR ANCHOR BOLTS UNLESS APPROVED BY THE ENGINEER.
   D. EPOXY ANCHORS (USE ONLY WITH PRIOR APPROVAL FROM ENGINEER):
      (1) USE A307 THREADED RODS WITH A 2 COMPONENT INJECTED EPOXY SYSTEM SUCH AS HILTI HIT.

SPECIAL INSPECTIONS

NOTE: SPECIAL INSPECTIONS ARE OWNER REQUIREMENTS AND ARE IN ADDITION TO AND SEPARATE FROM TESTING AND INSPECTIONS BY CONTRACTOR. CONTRACTOR TO REFER TO SPECIFICATIONS FOR CONTRACT REQUIREMENTS.

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE 2018 IBC, AND ARE TO BE PERFORMED UNDER SEPARATE CONTRACT BY QUALIFIED AGENCIES RETAINED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ARCHITECT/ENGINEER INFORMED OF WORK PROGRESS AS IT PERTAINS TO SPECIAL INSPECTION. DO NOT CONCEAL WORK REQUIRING SPECIAL INSPECTION UNTIL THE INSPECTION HAS BEEN PERFORMED. THESE INSPECTIONS PERTAIN TO THE OWNER AND DO NOT AFFECT THE CONTRACTOR'S TESTING AND INSPECTION REQUIREMENTS AS OUTLINED IN THE SPECIFICATIONS.

(1) INSPECTION OF FABRICATORS
   (A) STRUCTURAL STEEL
   (B) PRE-FABRICATED WOOD STRUCTURAL ELEMENTS
(2) STEEL CONSTRUCTION: PERIODIC INSPECTIONS REQUIRED:
   (A) MATERIAL VERIFICATIONS
   (B) FILLET WELDS
   (C) INSTALLATION OF HIGH STRENGTH BOLTS
(3) CONCRETE CONSTRUCTION, PERIODIC INSPECTIONS REQUIRED:
   (A) MATERIAL AND MIX DESIGN VERIFICATION
   (B) REINFORCING STEEL PRIOR TO CONCRETE PLACEMENT
   (C) EPOXY ANCHORS AND EPOXIED REINFORCING
   (D) BOLTS AND EMBEDS PRIOR TO AND DURING CONCRETE PLACEMENT
(4) SOILS*:
   PERIODIC INSPECTIONS OF:
   (A) SITE PREPARATION AND EXCAVATION IN ACCORDANCE WITH GEOTECHNICAL REPORT
   (B) CLASSIFICATION AND DENSITY COMPLIANCE OF IN-PLACE FILL MATERIALS WITH GEOTECHNICAL REPORT
   (C) VERIFICATION OF SUBGRADE PRIOR TO PLACEMENT OF COMPACTED FILL
   CONTINUOUS INSPECTION OF:
   (A) PLACEMENT AND COMPACTION OF FILL PER GEOTECHNICAL REPORT

*NOTE: CONTRACTOR SHALL PROVIDE OWNER WITH COPIES OF GEOTECHNICAL OBSERVATIONS, DENSITY TESTS, ETC. THAT ARE REQUIRED AS OUTLINED IN THE SPECIFICATIONS.

NO.	REVISION DESCRIPTION	BY	DATE

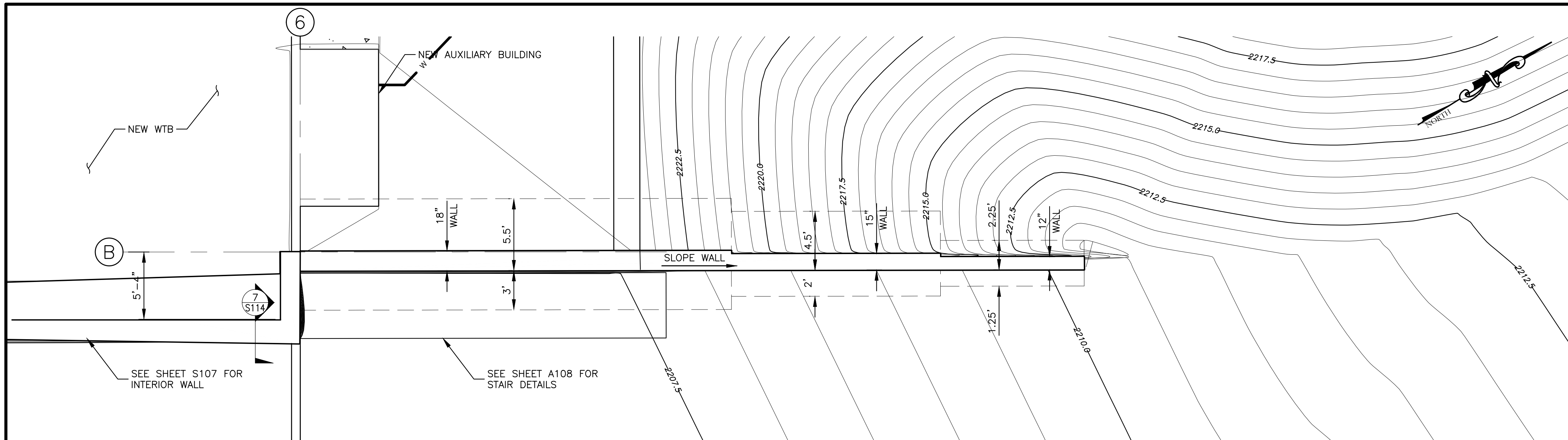
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

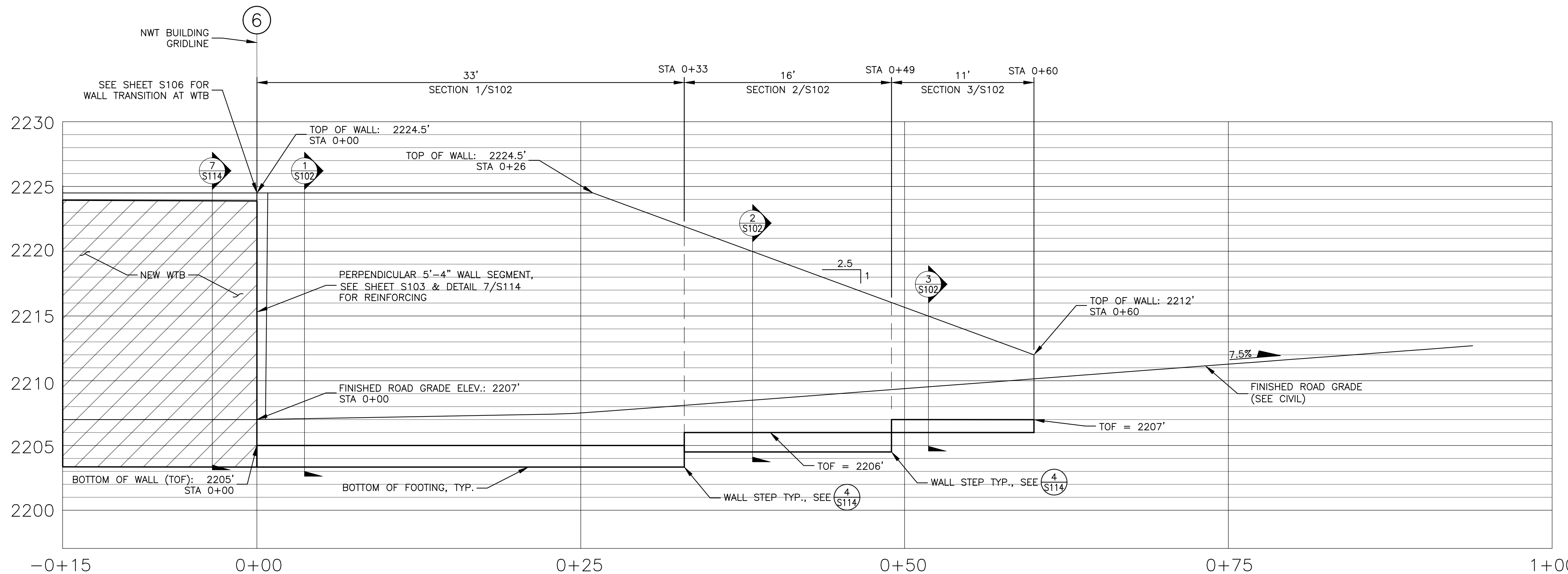
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
STRUCTURAL NOTES

SHEET NO.
S100



PLAN VIEW OF WTB RETAINING WALL

0 5 10
SCALE IN FEET



PROFILE VIEW OF WTB RETAINING WALL - STA. -1+15 TP STA. 1+00

HORIZONTAL SCALE : 1" = 10'
VERTICAL SCALE : 1" = 10'

PROFILE VIEW OF WTB RETAINING WALL

0 5 10
SCALE IN FEET

NO.	REVISION DESCRIPTION	BY	DATE

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DESIGNED: MAS
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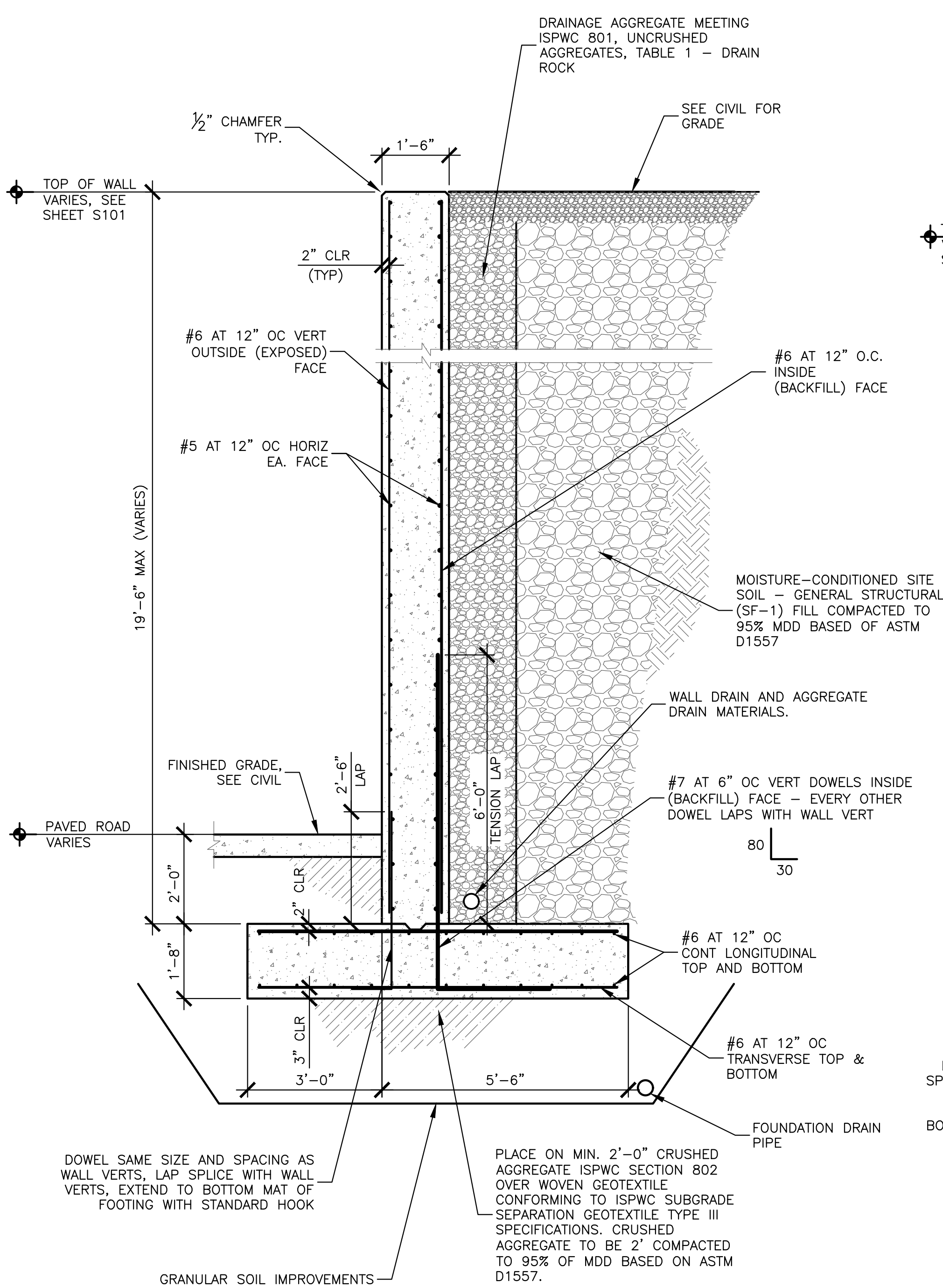
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

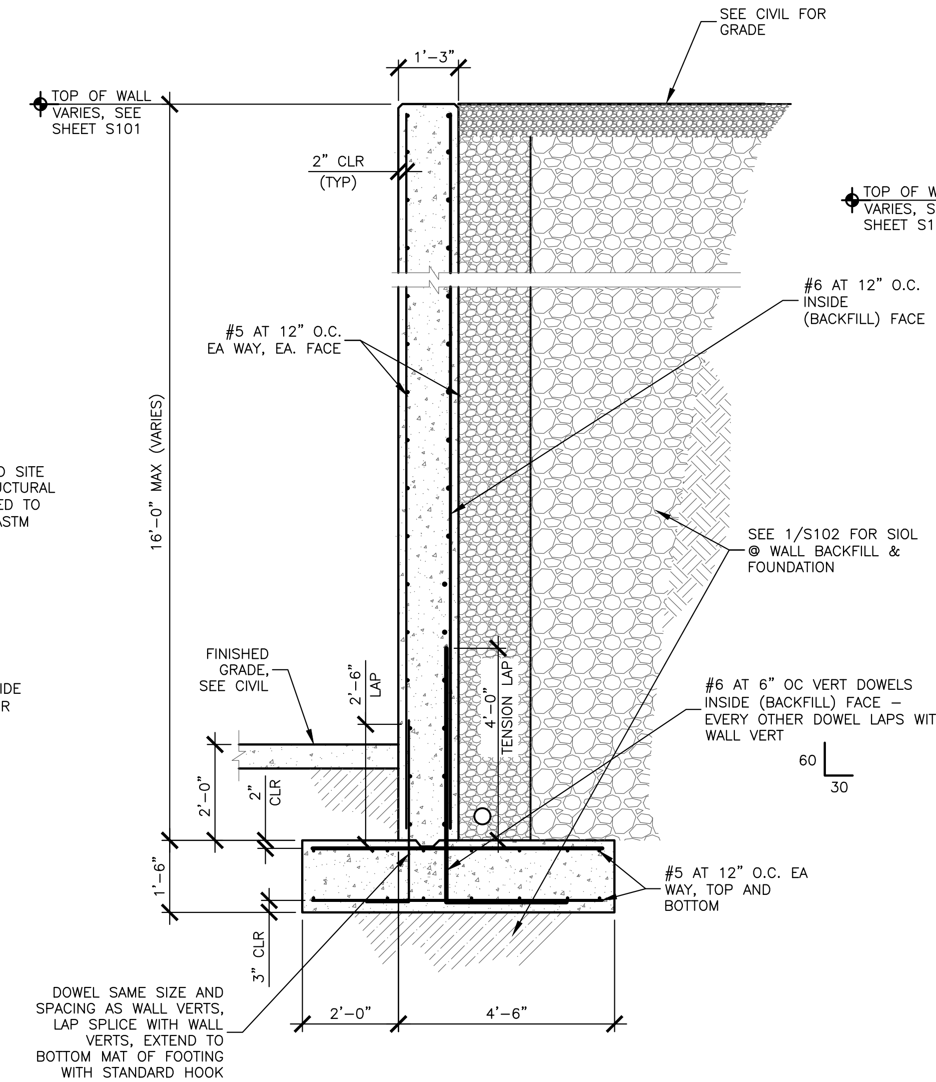
GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB RETAINING WALL PLAN & PROFILE

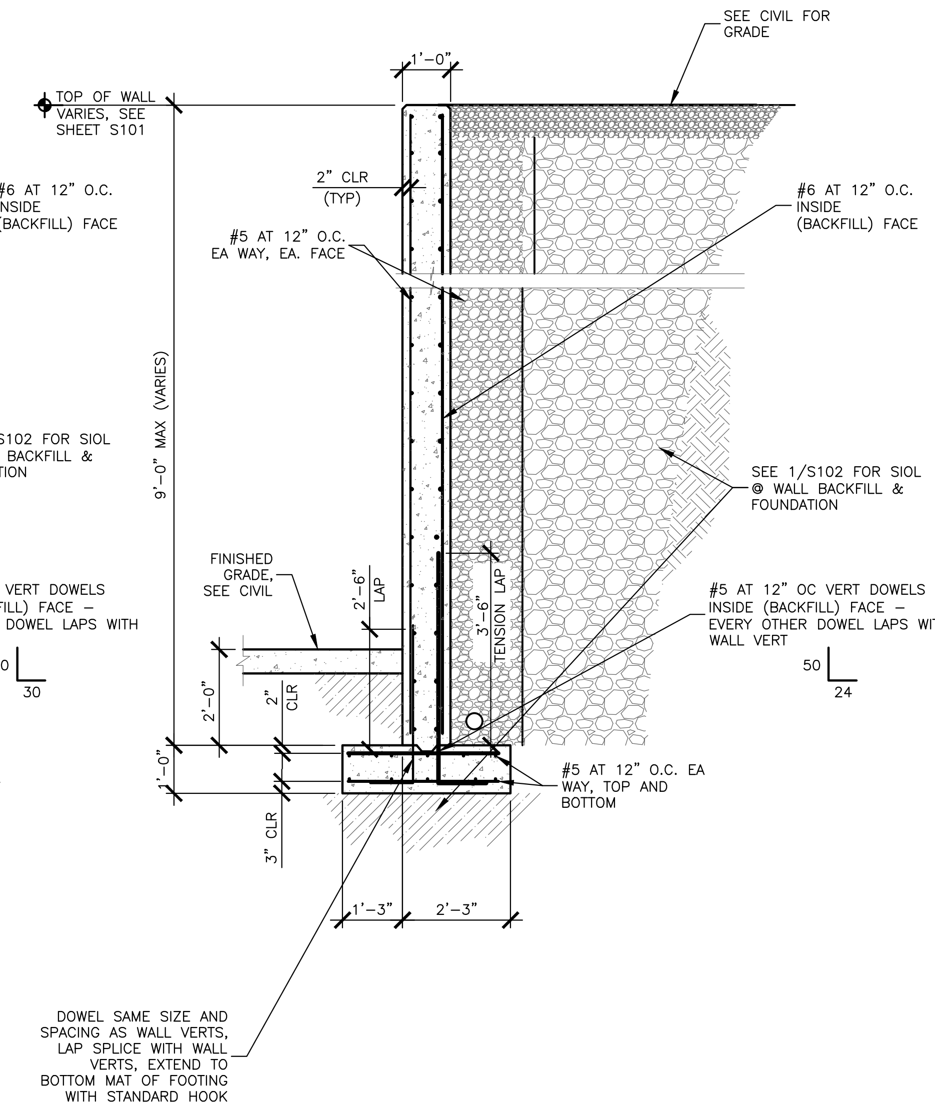
SHEET NO.
S101



1 S102 **RETAINING WALL AT STA. 0+00 TO STA. 0+33**
1/4" = 1'



2 S102 **RETAINING WALL AT STA. 0+33 TO STA. 0+49**
1/4" = 1'



3 S102 **RETAINING WALL AT STA. 0+49 TO STA. 0+60**
1/4" = 1'

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
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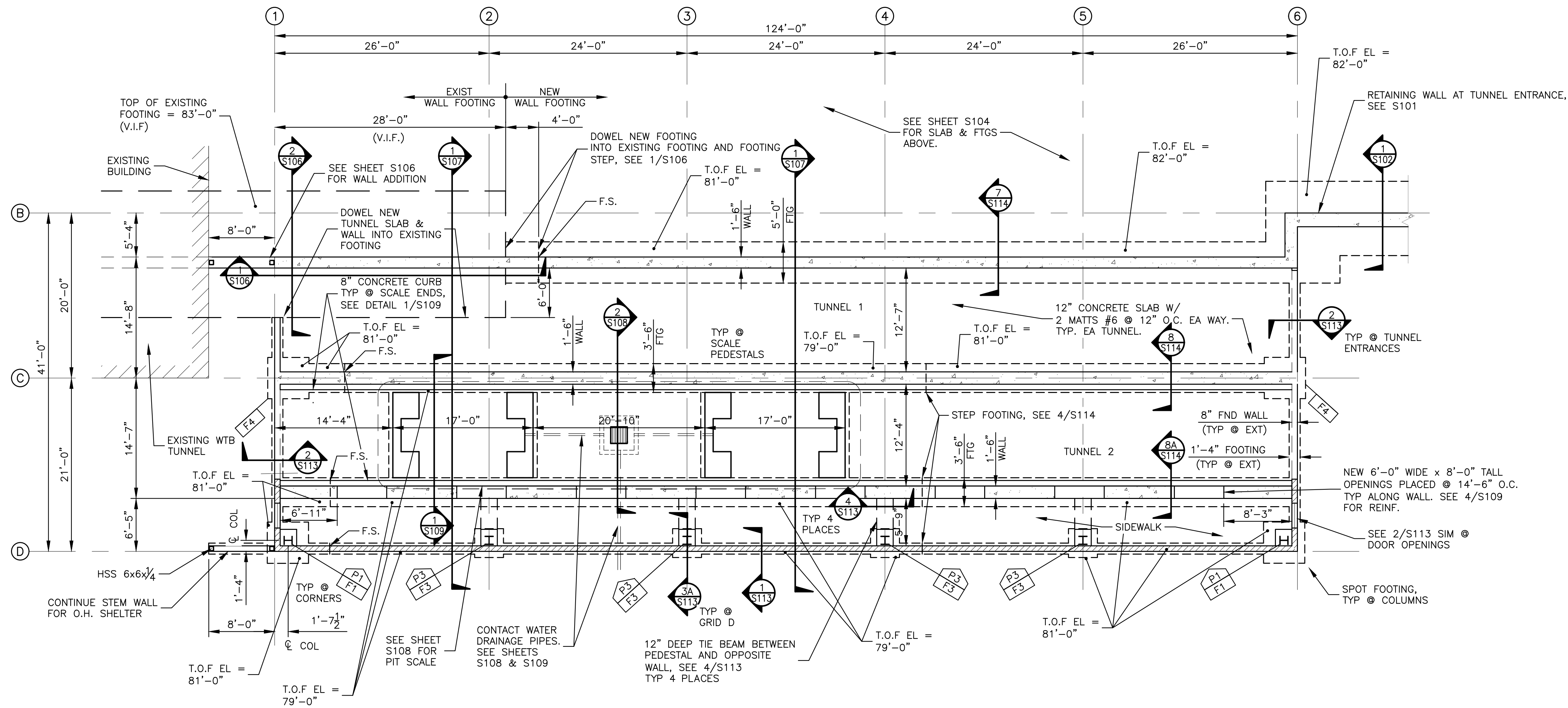
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB RETAINING WALL - SECTION

SHEET NO.
S102

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S102 COLBURN – NEW WTB RETAINING WALL – SECTION.dwg



FOUNDATION PLAN - TUNNEL LEVEL

SCALE: 1/16" = 1'-0" REF F.F. ELEV = 83'-0" = ACTUAL ELEV. 2207, SEE CIVIL

NORTH

LEGEND

T.O.F.	TOP OF FOOTING ELEVATION
T.O.S.	TOP OF SLAB/SCALE ELEVATION
F.S.	FOOTING STEP, SEE 4/S114
	CONCRETE WALL
	PEMB WALLS, GIRT SIZE & SPACING PER MANUFACTURER
PX	CONCRETE PEDESTAL, SEE SCHEDULE SHEET S113
FX	CONCRETE FOOTING, SEE SCHEDULE SHEET S113

NOTES:

1. CONTRACTOR TO PROVIDE MEANS TO PROTECT EXISTING FOOTING FOR RE-USE. VERIFY CONDITION IN FIELD AND NOTIFY ENGINEER OF RECORD IF CONFLICTS ARE PRESENT.
2. CONTRACTOR TO PROVIDE SUFFICIENT MEANS AND METHODS FOR SHARING SOIL ADJACENT TO EXISTING WTB. SEE PROJECT SPECS, SPECIAL PROVISIONS.
3. PROVIDE SAWCUT CONTRACTION JOINTS IN SLAB @ ABOUT 15' O.C. EACH WAY. SEE DETAIL 1/S116.

NO.	REVISION DESCRIPTION	BY	DATE

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APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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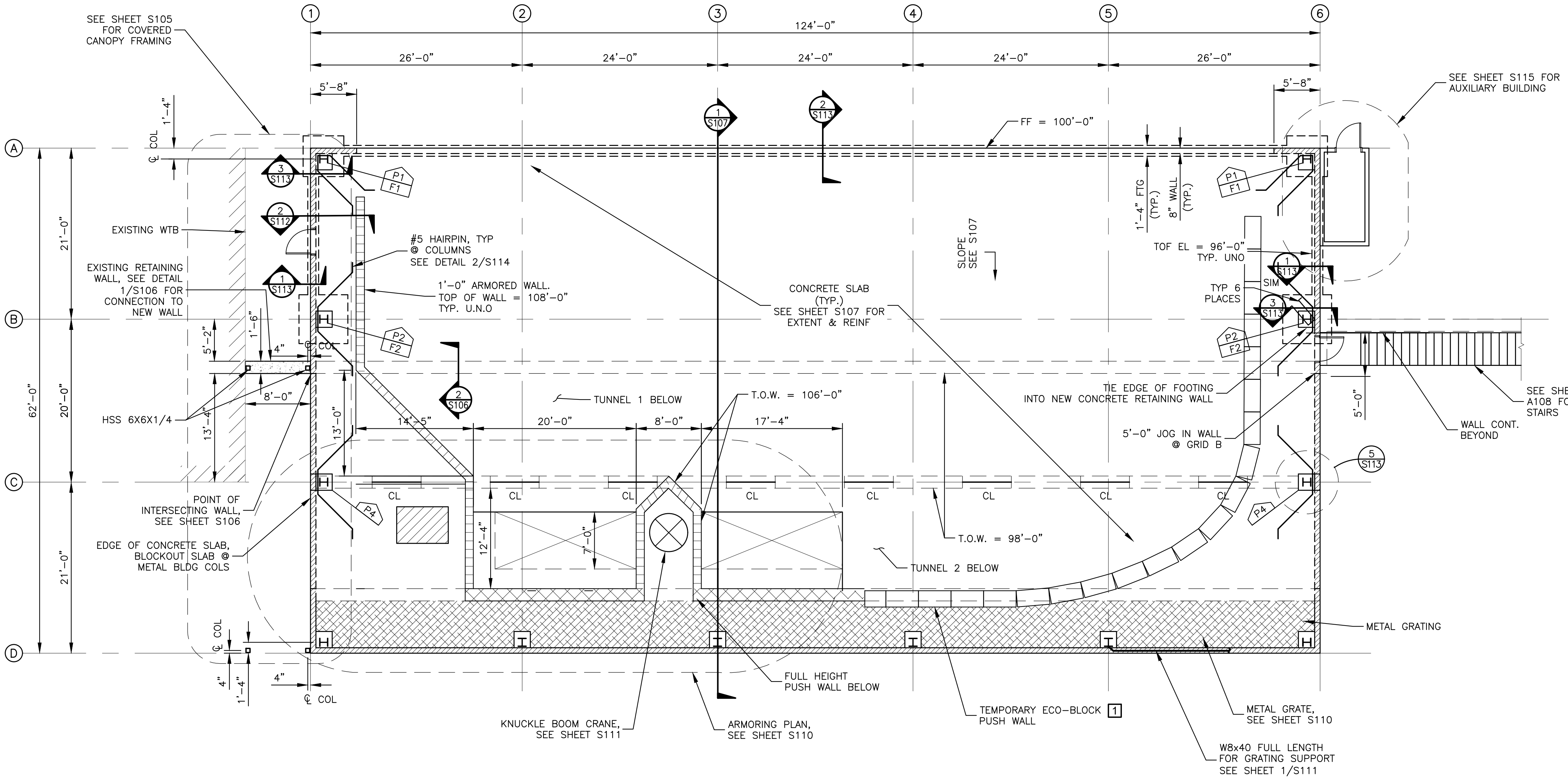
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB FOUNDATION PLAN - TUNNEL LEVEL

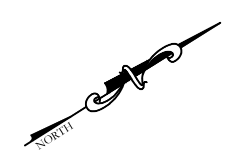
SHEET NO.
S103

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S103 COLBURN - NEW WTB FOUNDATION PLAN - TUNNEL LEVEL.dwg



FLOOR PLAN - TIPPING LEVEL

SCALE: 1/16" = 1'-0"
REF FF ELEV = 100'-0" = ACTUAL ELEV 2224.0, SEE CIVIL



LEGEND

	ARMORED PUSHWALLS ANCHORED TO SLAB-ON-GRADE, SEE SHEET S112
	FULL HEIGHT ARMORED WALL, SEE SECTION SHEET S110
	PEMB WALLS, GIRT SIZE & SPACING PER MANUFACTURER
	METAL GRATING WALKING SURFACE. SEE SHEET S107
FX	CONCRETE FOOTING BELOW, SEE SCHEDULE SHEET S113
PX	CONCRETE PEDESTAL BELOW, SEE SCHEDULE SHEET S113
CL	CONCRETE LINTEL. SEE DETAIL 4/S109. SEE ARCH FOR LOCATIONS.

KEYED NOTES:

1 ECO-BLOCKS TO BE MIN. 6'-0" TALL AND STAGGER STACKED.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
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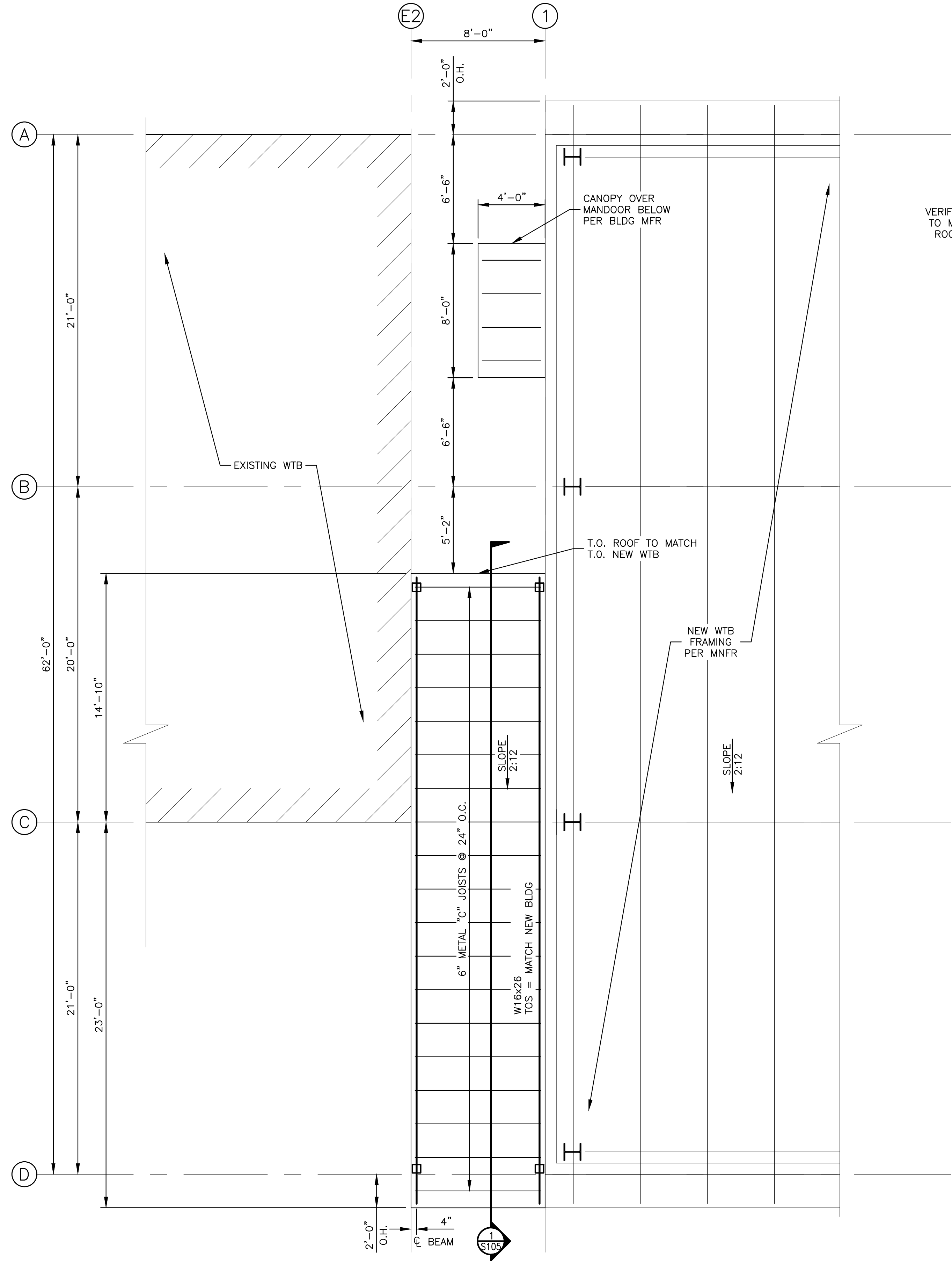
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 15156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201 BOISE, ID 83703 (208)576-6646

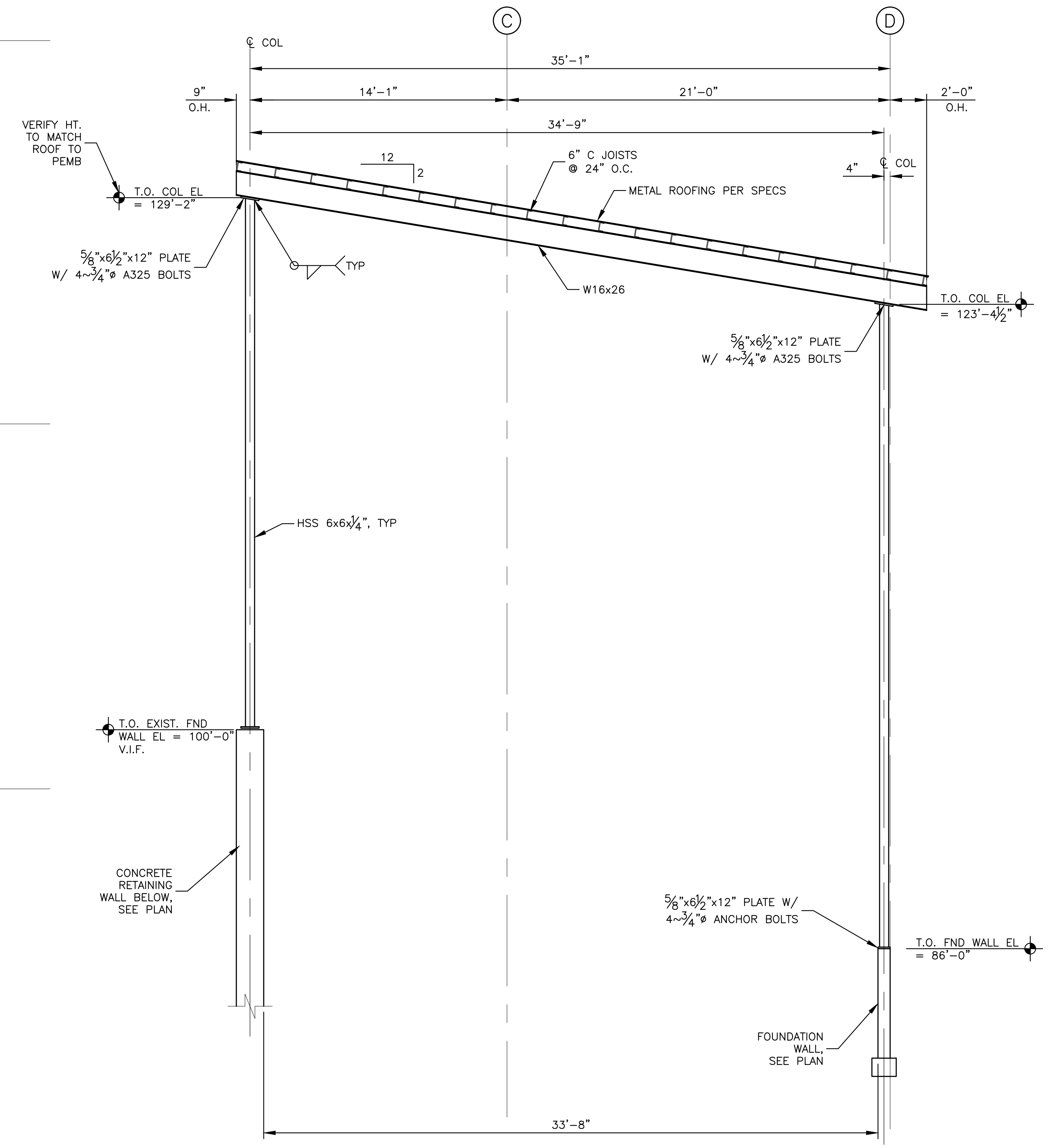
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB FOOTING PLAN - TIPPING LEVEL

SHEET NO.
S104



WTB COVERED CANOPY ROOF FRAMING PLAN

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



WTB COVERED CANOPY ROOF FRAMING ELEVATION

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

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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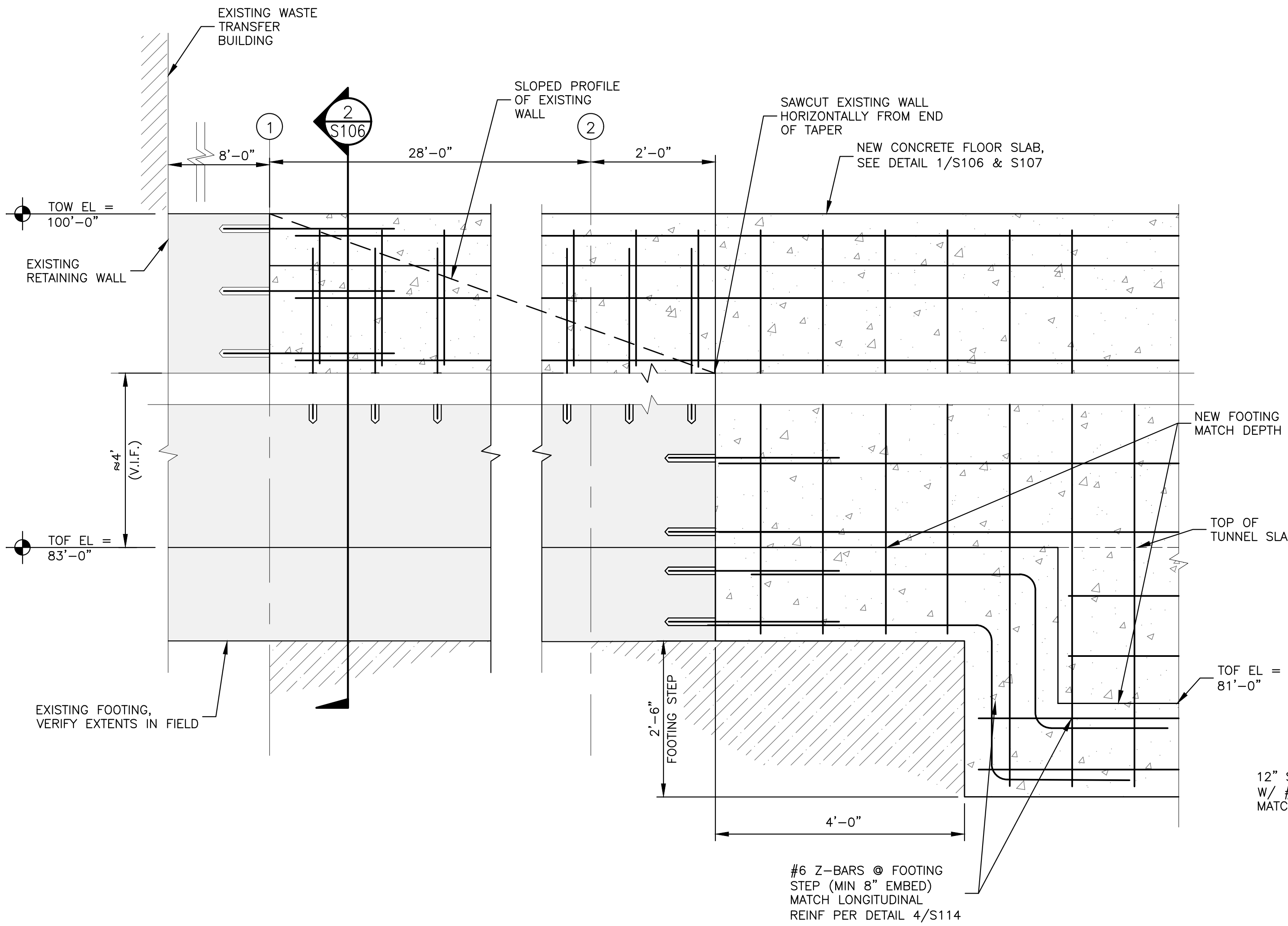
BOISE, ID 83703
(208)576-6646

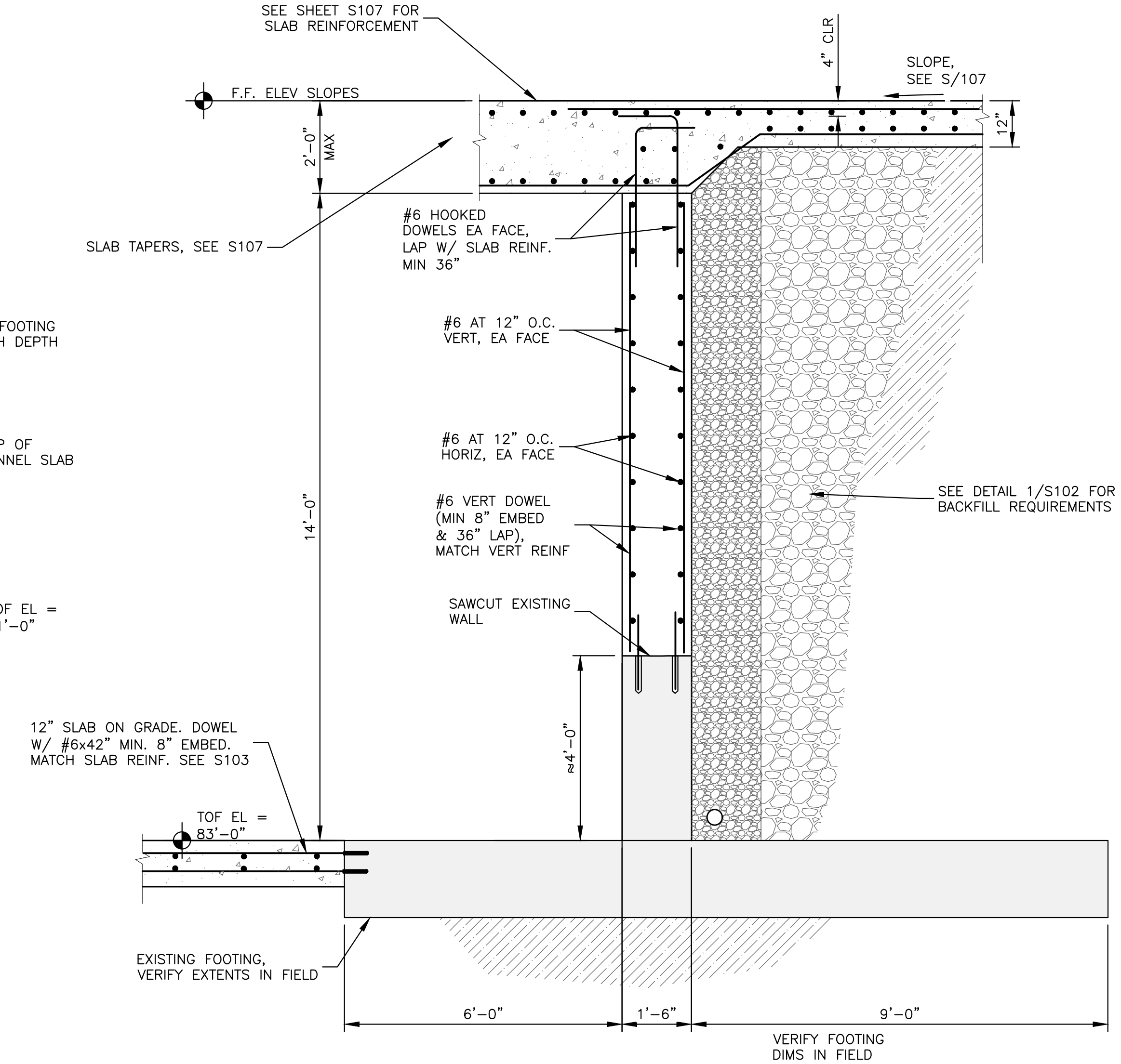
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB CANOPY ROOF FRAMING PLAN

SHEET NO.
S105



1/S106 RETAINING WALL ADDITION PROFILE

SCALE: 3/8" = 1'-0"



2/S106 NEW RETAINING WALL ADDITION SECTION

SCALE: 3/8" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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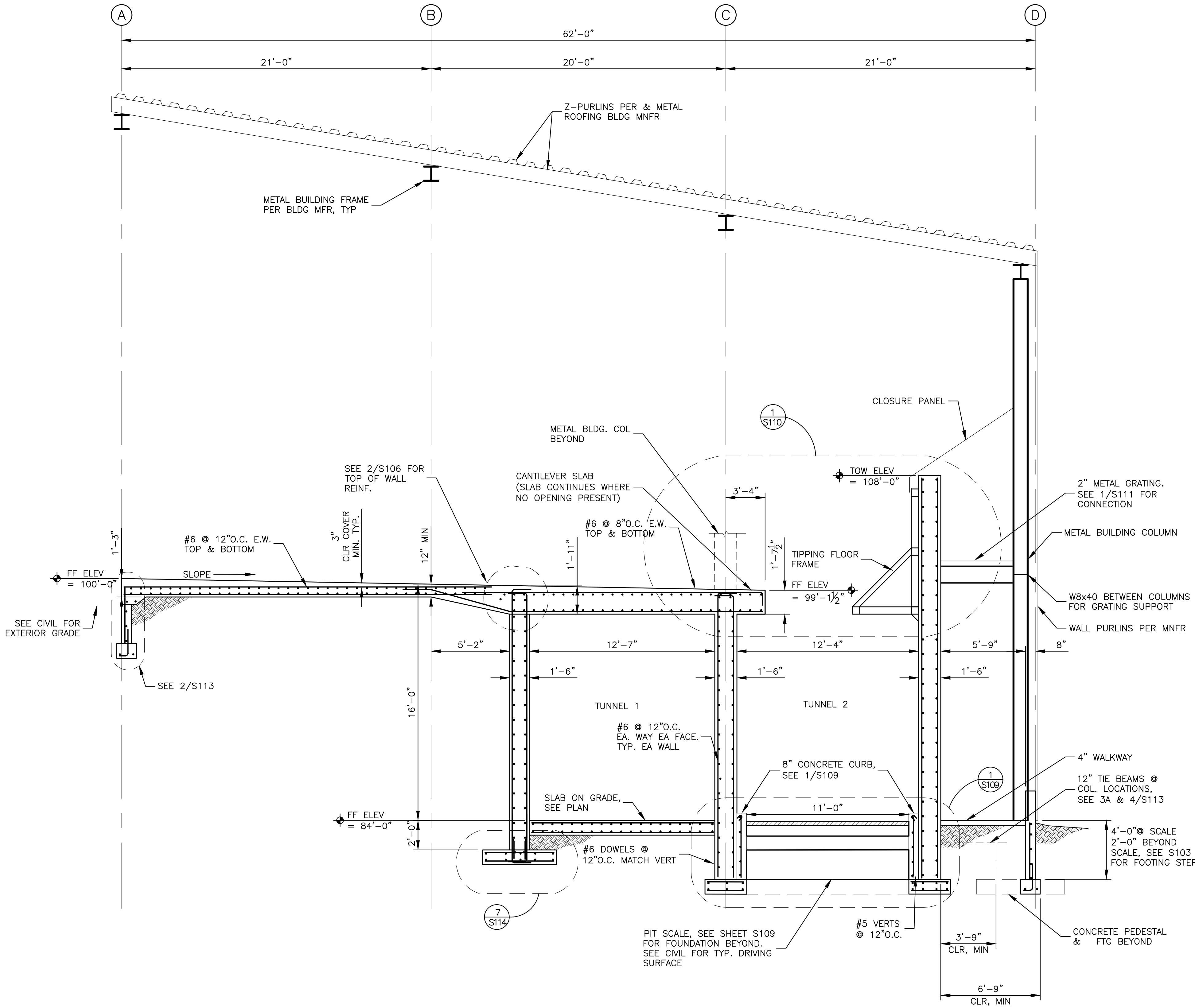
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB RETAINING WALL ADDITION

SHEET NO.
S106

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S106 COLBURN - NEW WTB RETAINING WALL ADDITION.dwg



SECTION

SCALE: 1/8" = 1'-0"
F.F. ELEV = 100'-0" @ GRID A = ACTUAL ELEV 2224.0

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S107 COLBURN - NEW WTB BUILDING SECTIONS.dwg

NO.	REVISION DESCRIPTION	BY	DATE

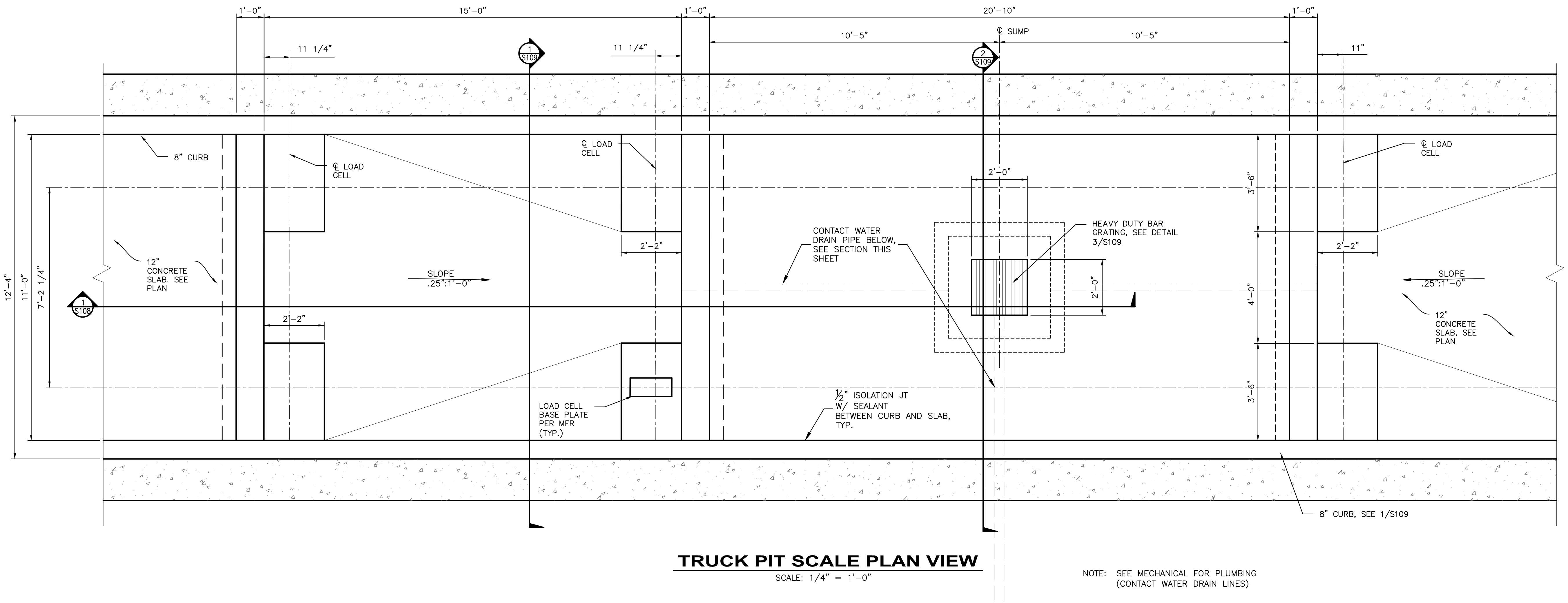
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 5156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB BUILDING SECTIONS

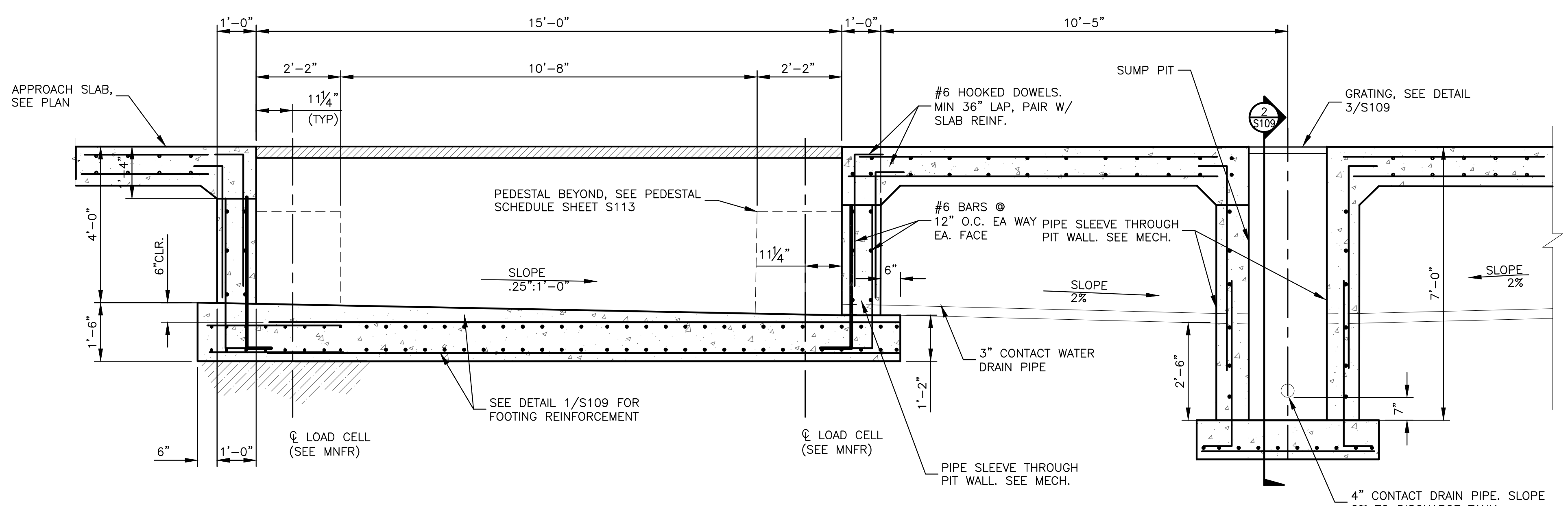
SHEET NO.
S107



TRUCK PIT SCALE PLAN VIEW

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

NOTE: SEE MECHANICAL FOR PLUMBING (CONTACT WATER DRAIN LINES)



1/S108 TYP. PIT SCALE FOUNDATION SECTION

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

NO.	REVISION DESCRIPTION	BY	DATE

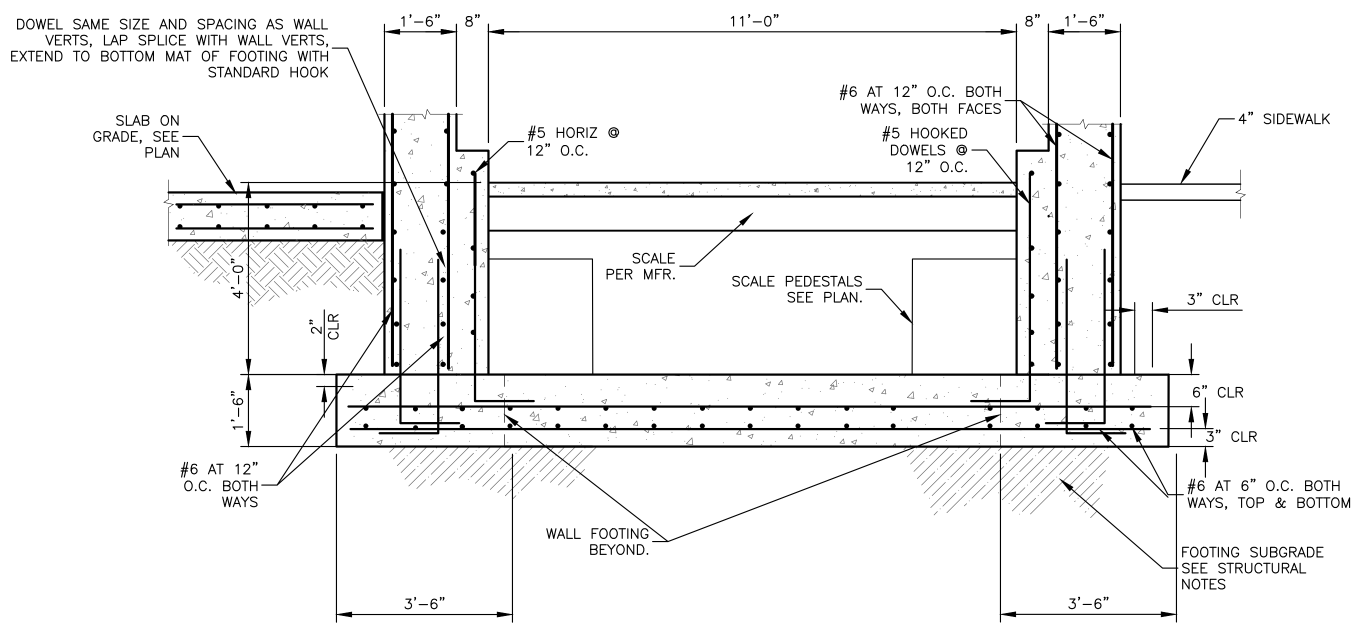
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

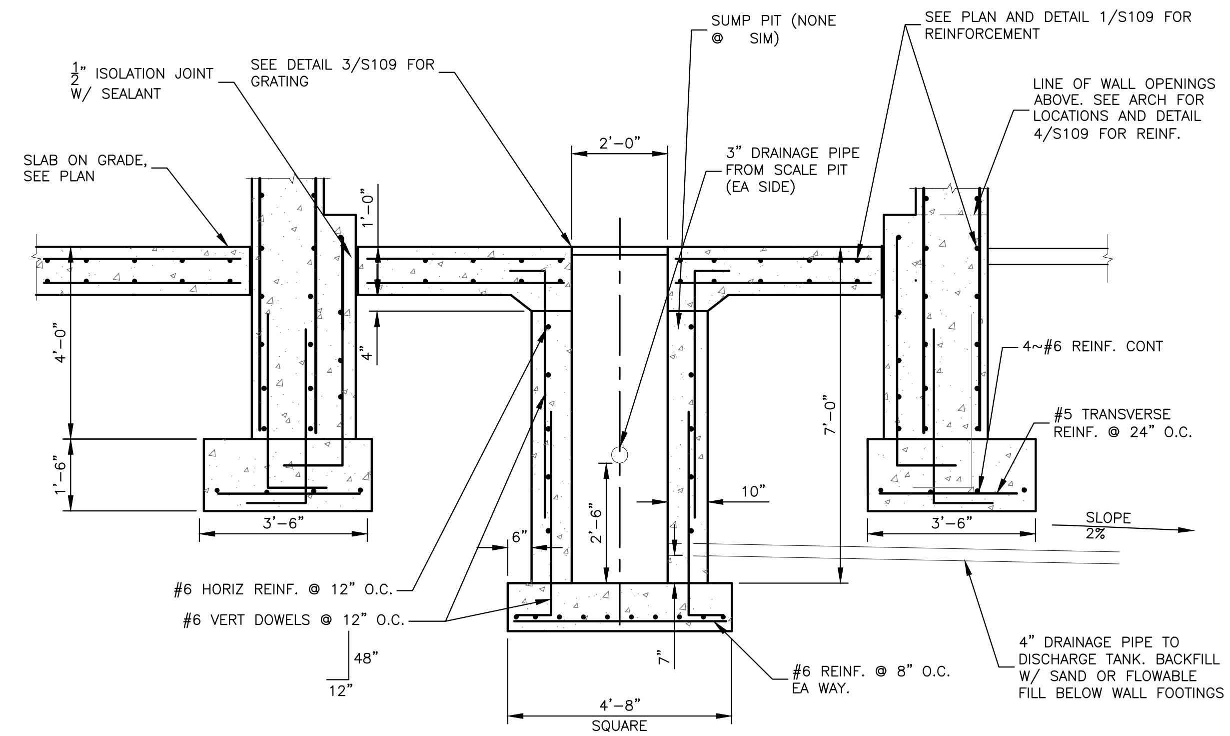
GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB STRUCTURAL DETAILS - FDN TUNNEL LEVEL

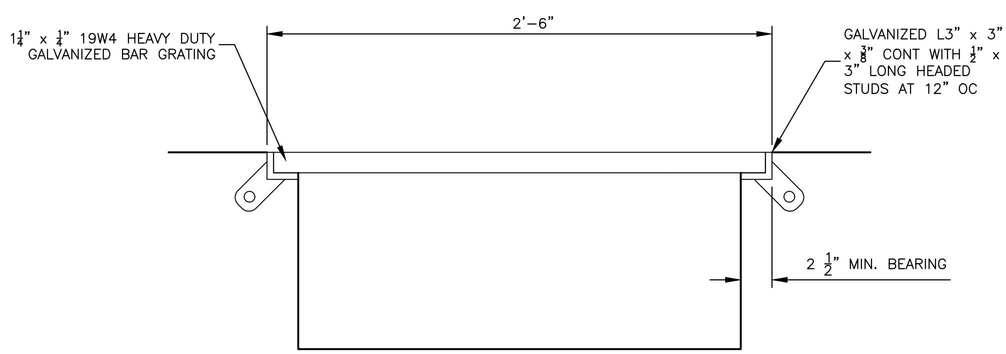
SHEET NO.
S108



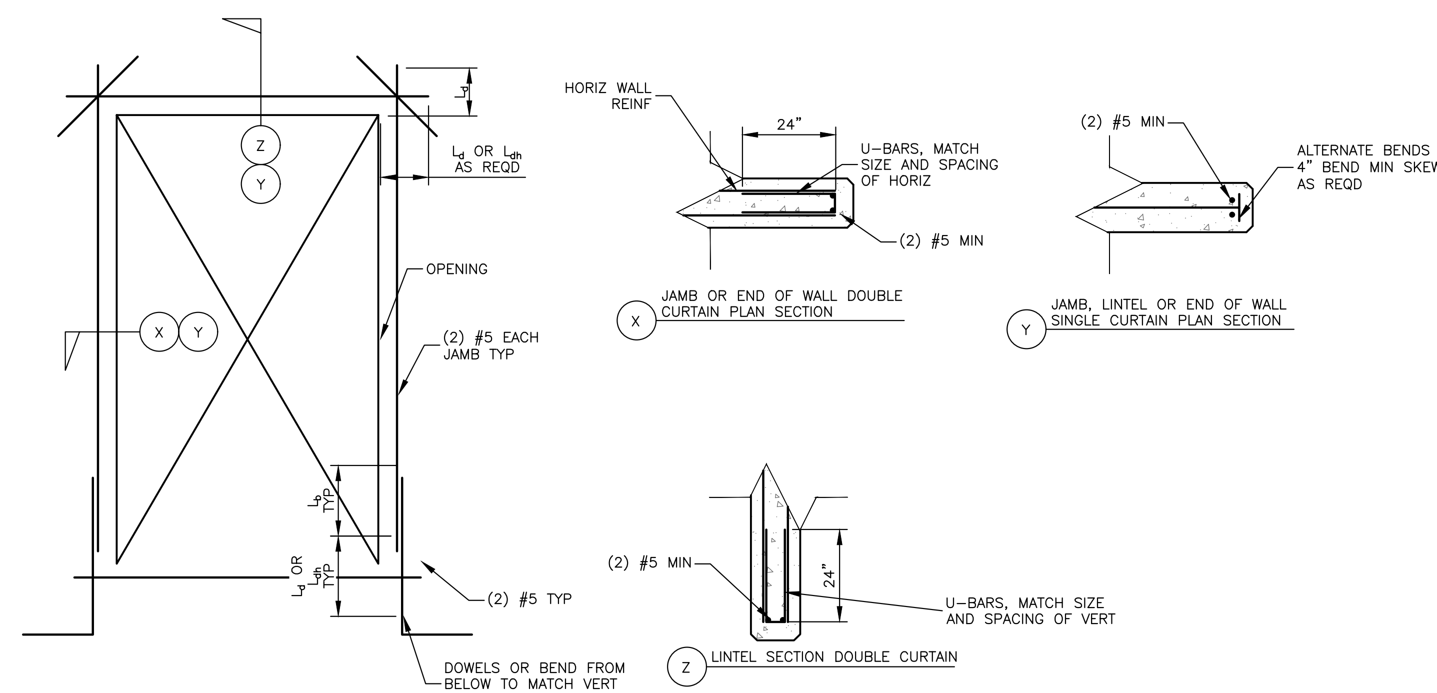
1 S109 **TYP. PIT SCALE FOUNDATION**
SCALE: 1/4" = 1'-0"



2 S109 **FOUNDATION SECTION @ CONTACT WATER SUMP**
SCALE: 1/4" = 1'-0"



3 S109 **CENTER DRAIN GRATE DETAIL**
NOT TO SCALE



4 S109 **CONCRETE LINTEL DETAIL**
NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
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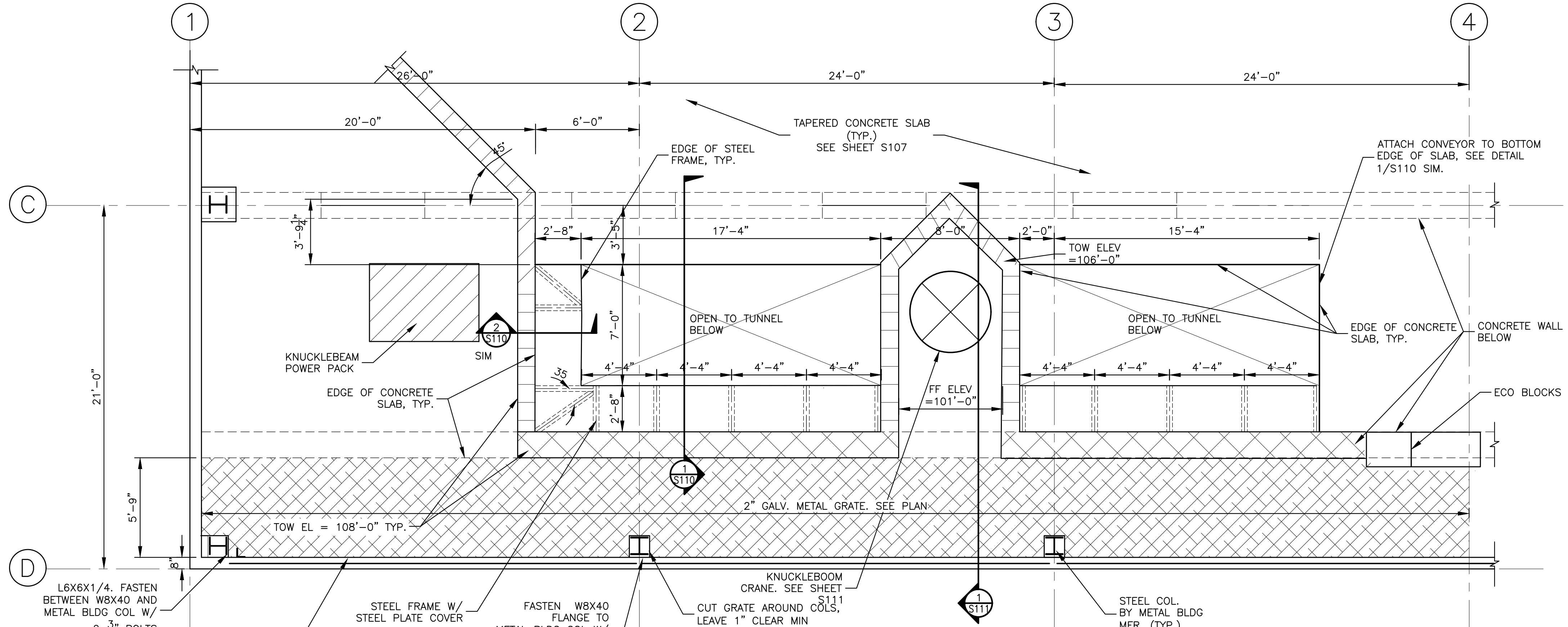
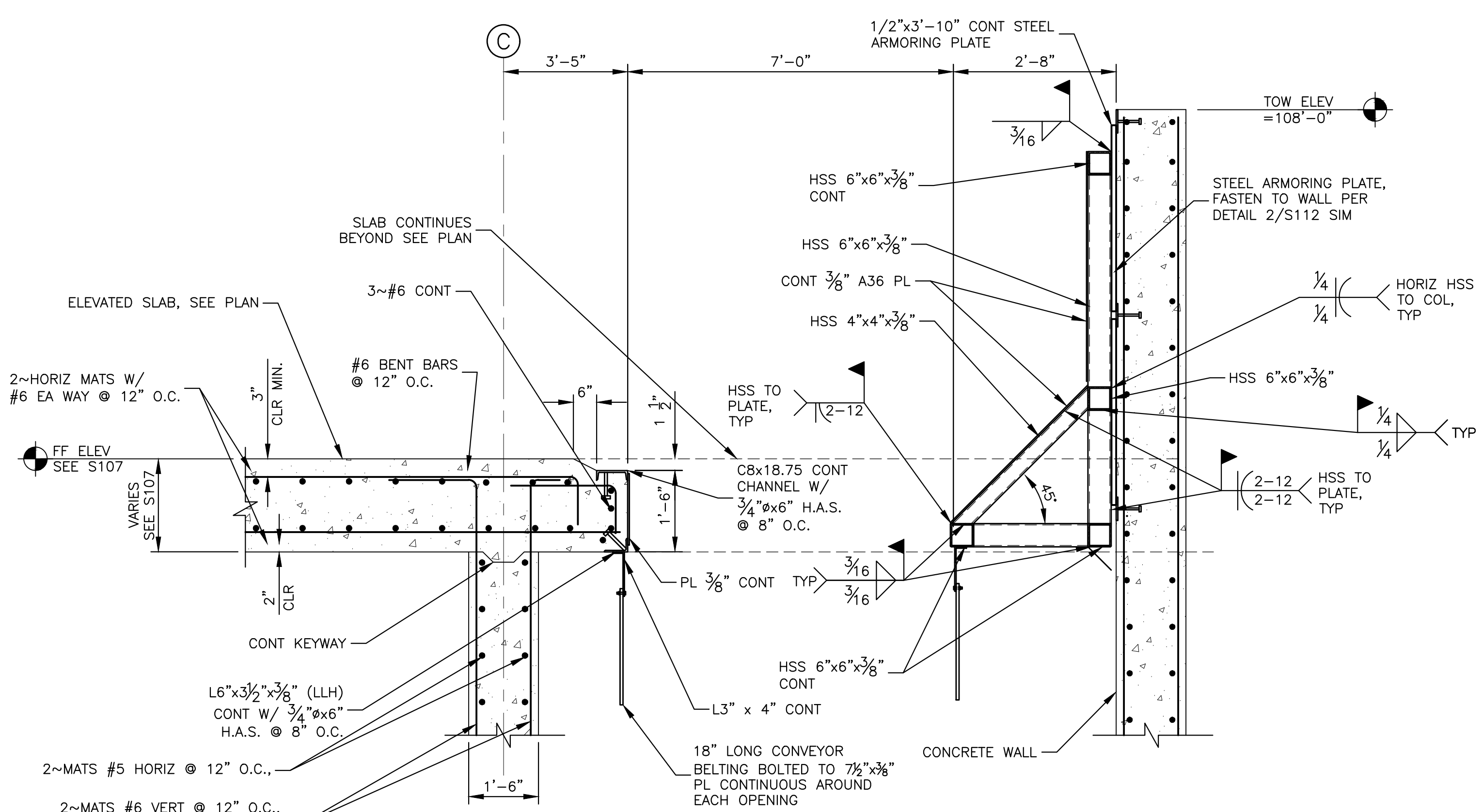
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB STRUCTURAL DETAILS - FDN PIT TRENCH

SHEET NO.
S109

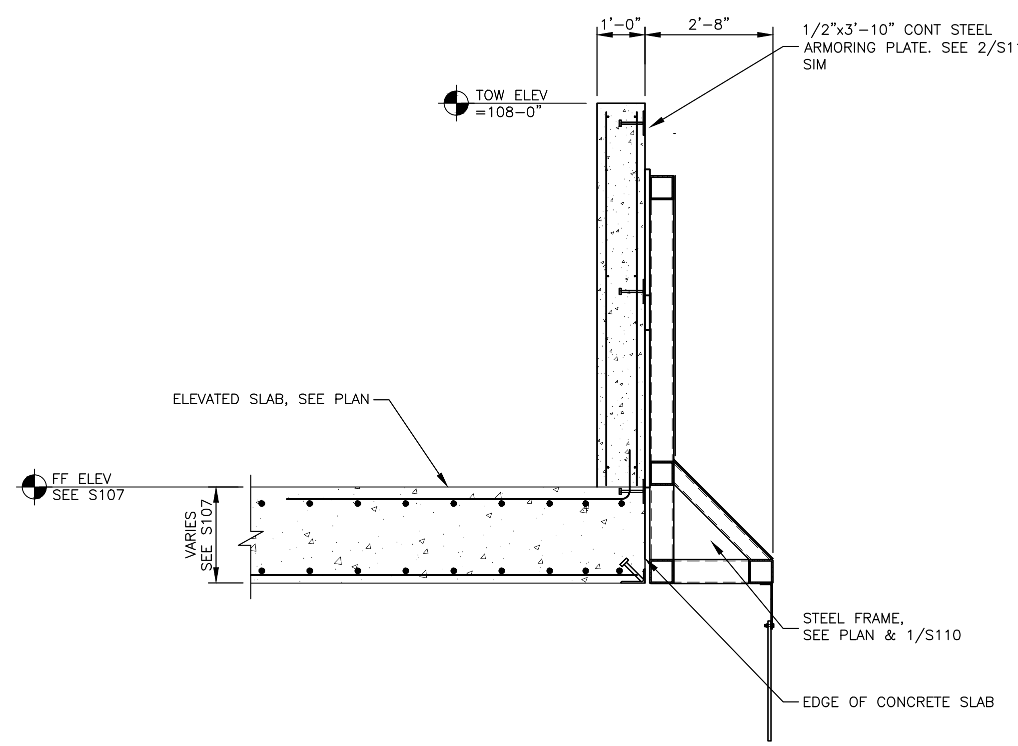


ARMORING PLAN

SCALE: 1/8" = 1'-0"
REF FF ELEV = 100'-0"± (FLOOR SLOPES)



1 S110 **BACK WALL ARMOR PLATE DETAIL - SECTION**
SCALE: 1/4" = 1'-0"



2 S110 **SIDE WALL ARMOR PLATE DETAIL - SECTION**
SCALE: 1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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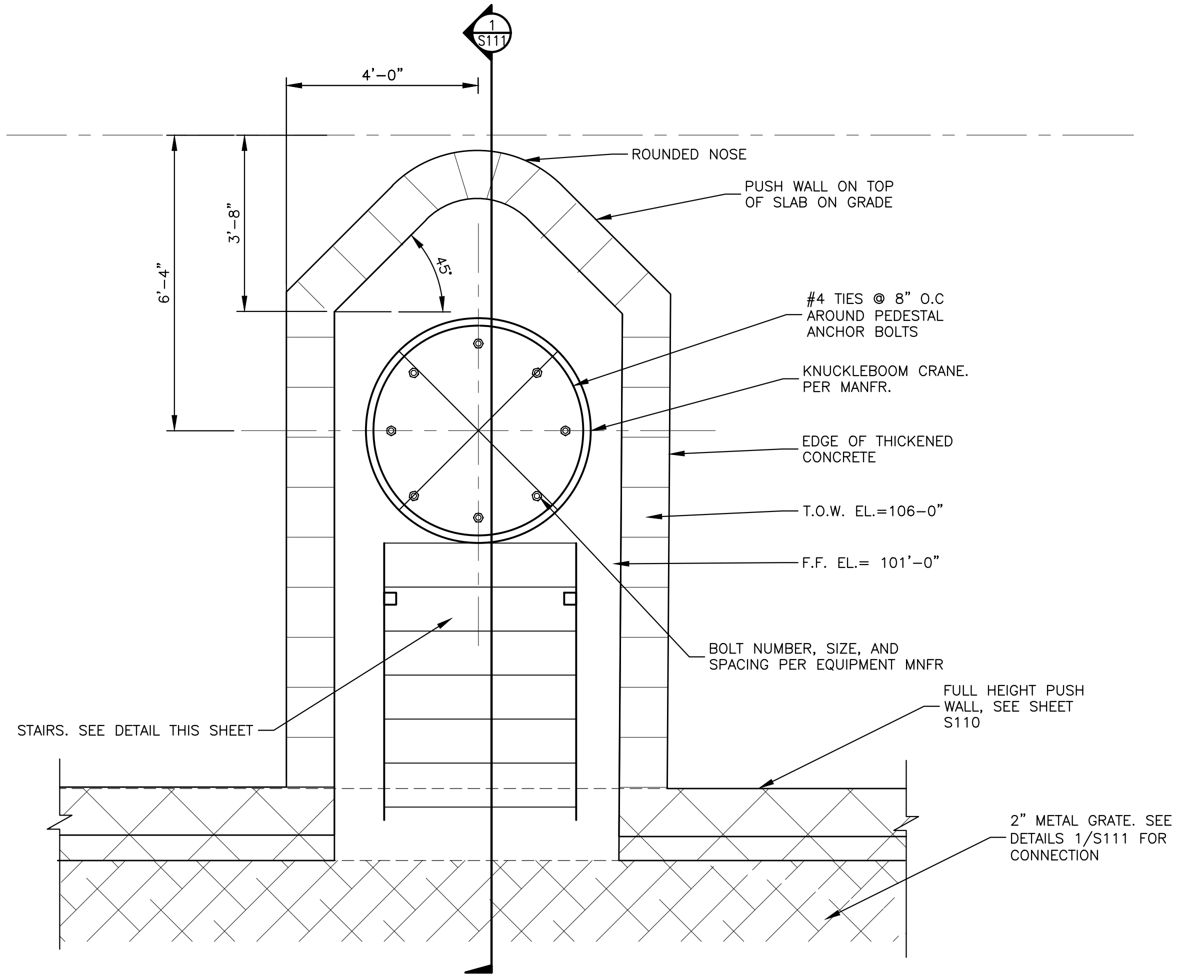
3050 N. LAKEHARBOR LANE SUITE 201
BOISE ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ARMORING PLAN

SHEET NO.
S110

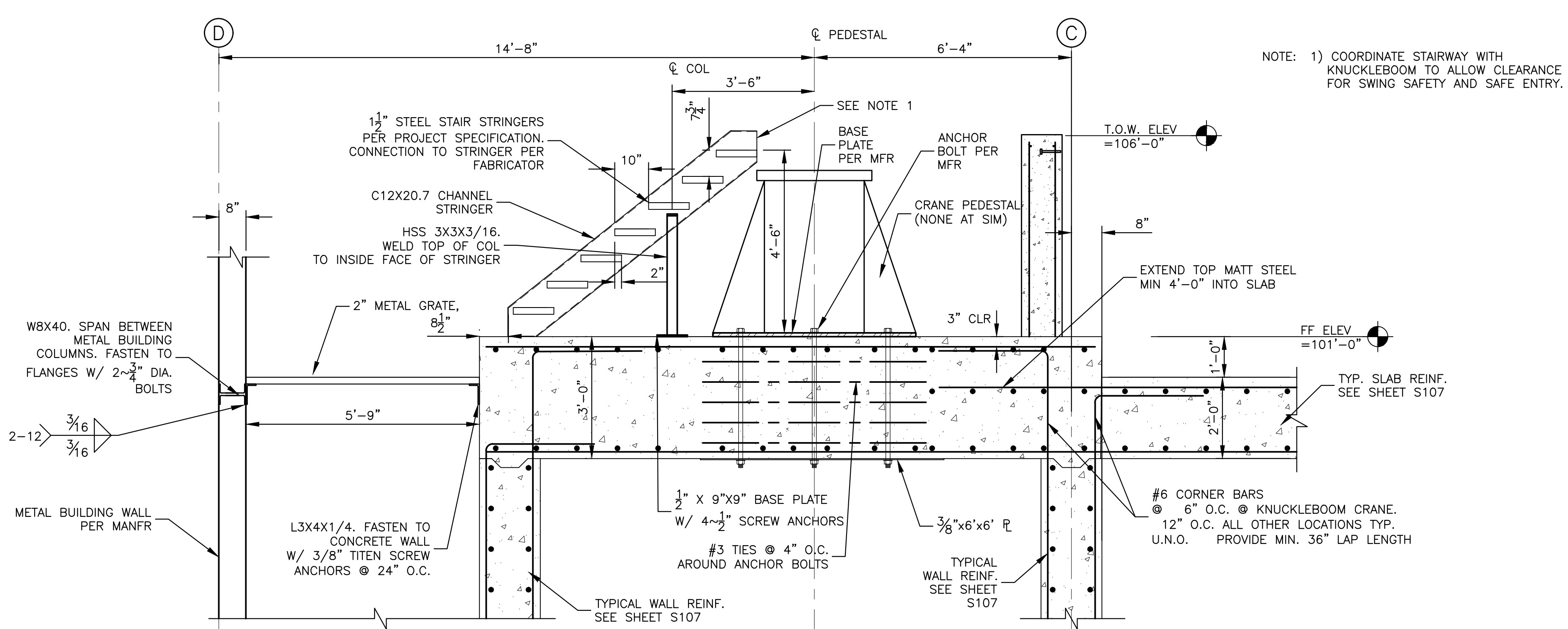
SHEET NOTES:
1. THE KNUCKLE BOOOM CRANE AND ASSOCIATED POWER PACK, ELECTRICAL, AND MECHANICAL SYSTEMS ARE A BID ALTERNATIVE FOR THIS PROJECT.



KNUCKLEBOOM PEDESTAL PLAN

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

NOTE: 1) COORDINATE STAIRWAY WITH KNUCKLEBOOM TO ALLOW CLEARANCE FOR SWING SAFETY AND SAFE ENTRY.



1 / S111 **KNUCKLEBOOM PEDESTAL SECTION**

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

NO.	REVISION DESCRIPTION	BY	DATE

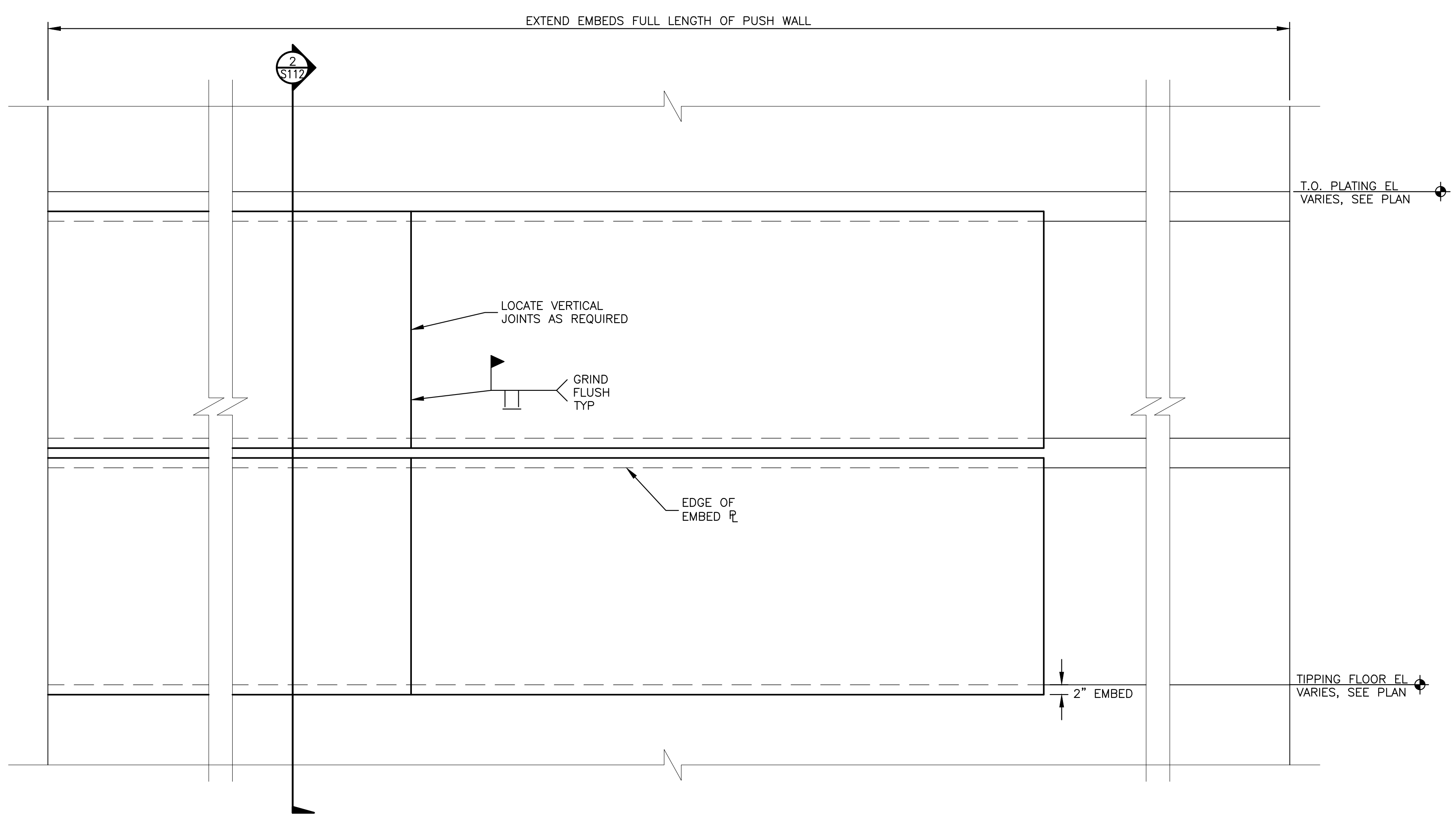
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 15156 2/14/23 STATE OF IDAHO MARY A. STELLING

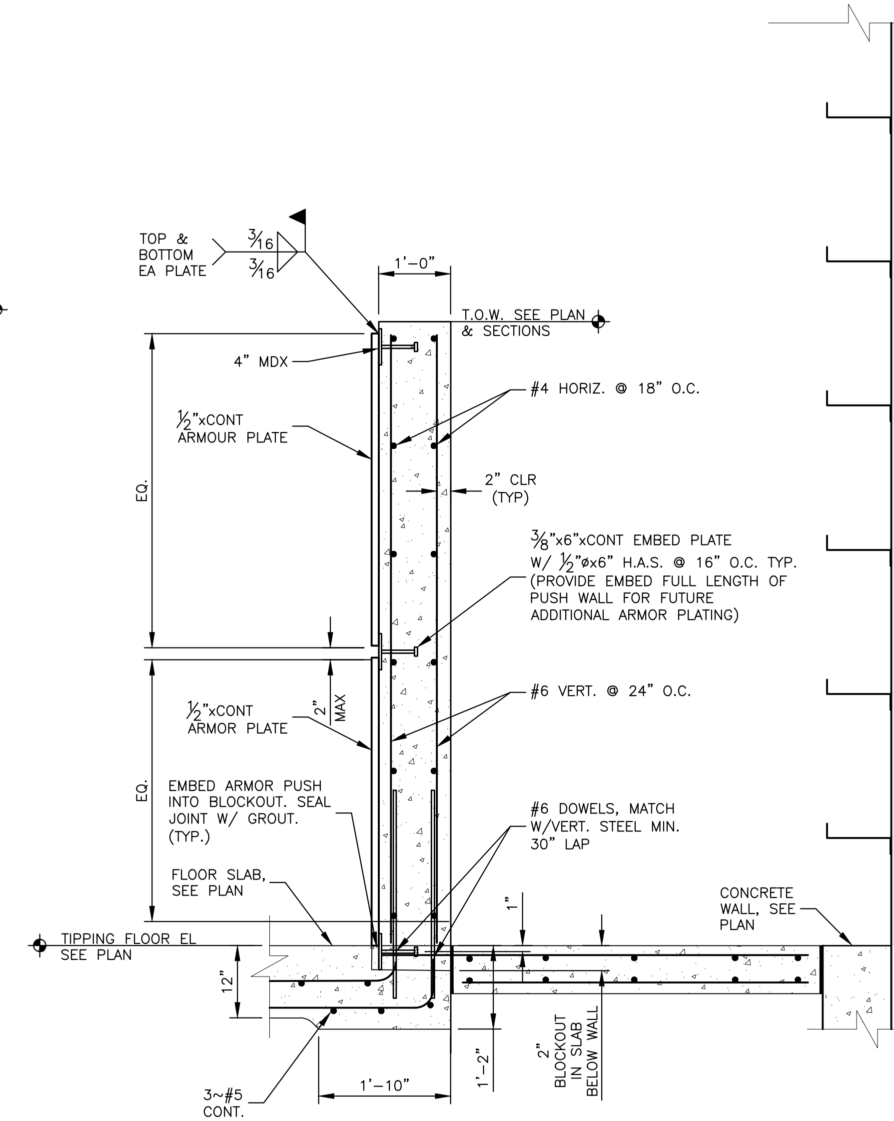
GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201 BOISE, ID 83703 (208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
WTB KNUCKLE BOOM CRANE PLAN, SECTION, AND DETAIL

SHEET NO.
S111



1 / S112 **PUSH WALL ARMOR PLATE DETAIL - ELEVATION**
SCALE: 3/8" = 1'-0"



2 / S112 **PUSH WALL ARMOR PLATE DETAIL - SECTION**
SCALE: 3/8" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

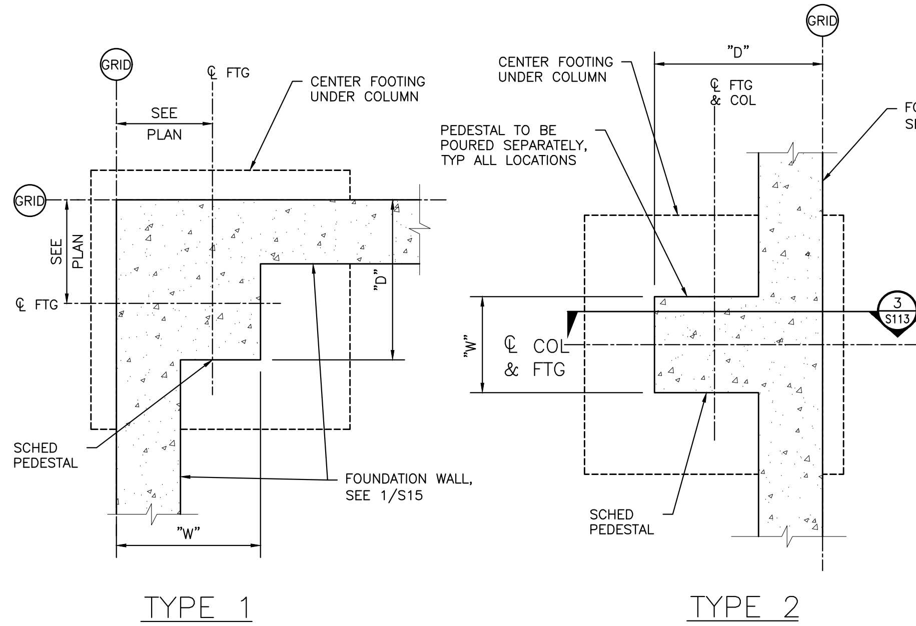
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER
REGISTERED
9156
2/14/23
STATE OF IDAHO
MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

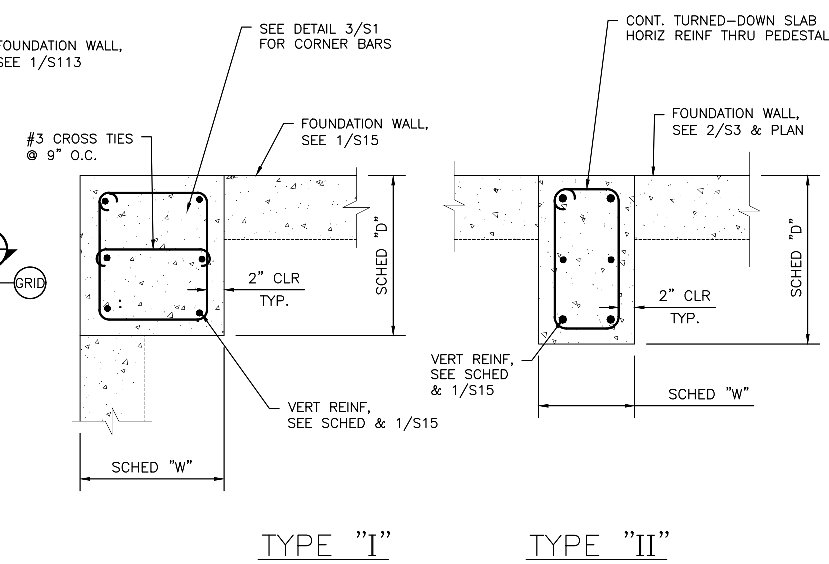
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
WTB LOADING CHUTES METAL ARMORING SECTION & ELEV.

SHEET NO.
S112



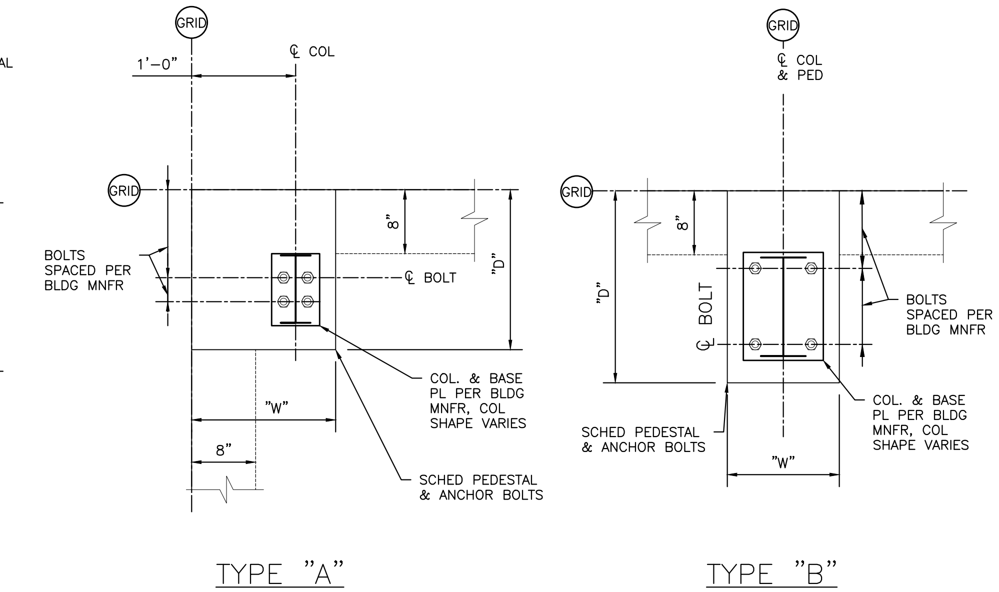
FOOTING TYPES

A/S113 SCALE: NTS



PEDESTAL TYPES

B/S113 SCALE: NTS



BASE PLATE CONFIGURATION TYPES

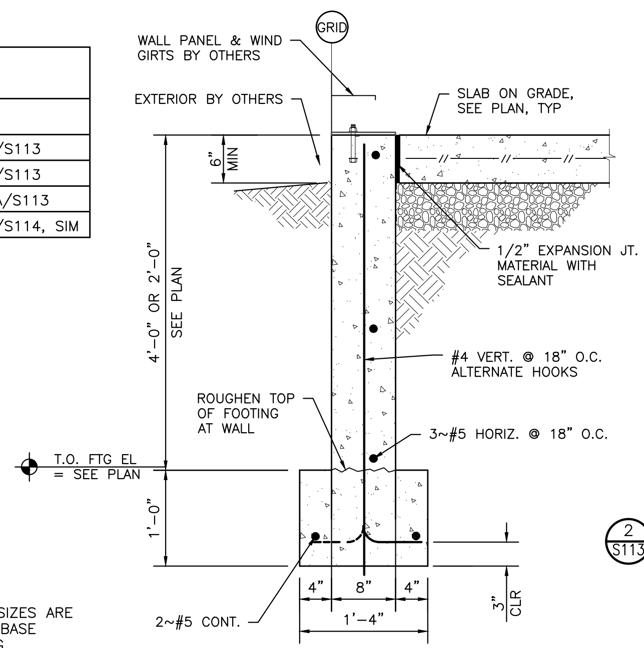
C/S113 SCALE: NTS

SPOT FOOTING SCHEDULE**					
MARK	FOOTING TYPE	FOOTING SIZE	DEPTH	REINFORCING	REMARKS
F1	1	5'-0"x5'-0"	18"	6~#5 EA WAY	SEE DETAIL 3/S113
F2	2	6'-0"x6'-0"	18"	7~#5 EA WAY	SEE DETAIL 3/S113
F3	2	3'-6"x3'-6"	12"	4~#5 EA WAY	SEE DETAIL 3A/S113
F4	2 SIM	5'-0"x5'-0"	18"	6~#5 EA WAY	SEE DETAIL 8/S114, SIM

PEDESTAL & ANCHOR BOLT SCHEDULE **					
MARK	PEDESTAL SIZE "D" x "W"	PED. TYPE	VERTICAL REINF.	B.P. CONFIG.	*ANCHOR BOLTS # X ø X L
P1	22x22	I	6~#6	A1	4~1"øx18"
P2	22x18	II	6~#6	A2	4~1"øx18"
P3	22x14	II	4~#6	B	4~3/4"øx8"
P4	22x18	II (SIM)		B	4~1"øx18"

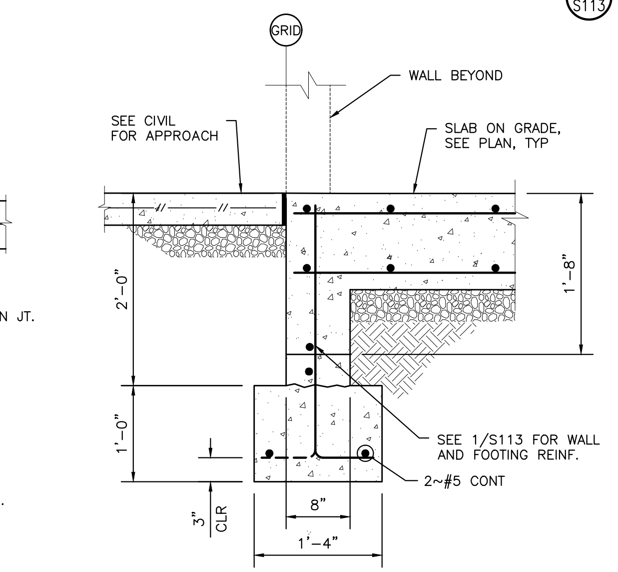
* SEE DETAIL 1/S114 FOR TYP ANCHOR BOLT. SIZES WILL NEED TO BE CHECKED WHEN FINAL BUILDING PACKAGE IS PROVIDED,

** NO METAL BUILDING DRAWINGS HAVE BEEN PROVIDED AND THEREFORE PEDESTAL SIZES ARE SUBJECT TO CHANGE ONCE INFORMATION HAS BEEN RECEIVED FROM THE PEDESTAL, BASE PLATE, AND ANCHOR BOLT CONTRACTOR. CONTRACTOR MUST SUBMIT METAL BUILDING DRAWINGS ONCE OBTAINED FOR VERIFICATION OF LAYOUT AND DESIGN BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTING METAL BUILDING FOUNDATION.



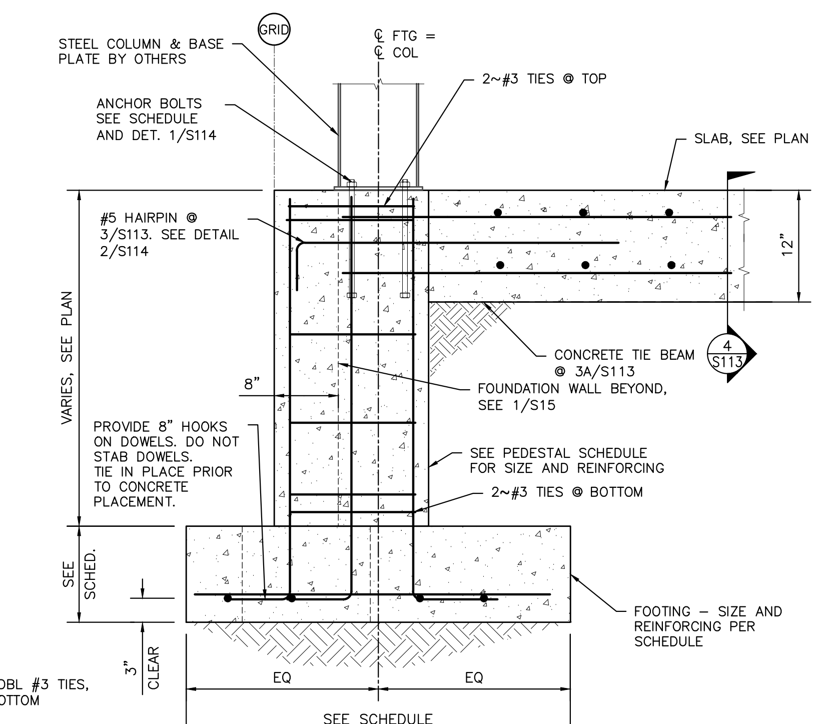
FOUNDATION DETAIL

1/S113 SCALE: 1/2" = 1'-0"



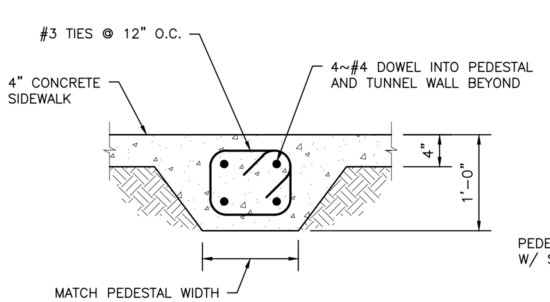
FND WALL @ OVERHEAD DOORS

2/S113 SCALE: 1/2" = 1'-0"



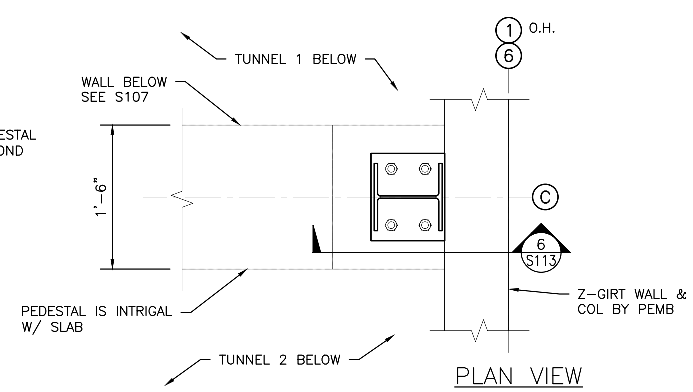
PEDESTAL DETAIL

3A/S113 3/S113 SCALE: 1/2" = 1'-0"



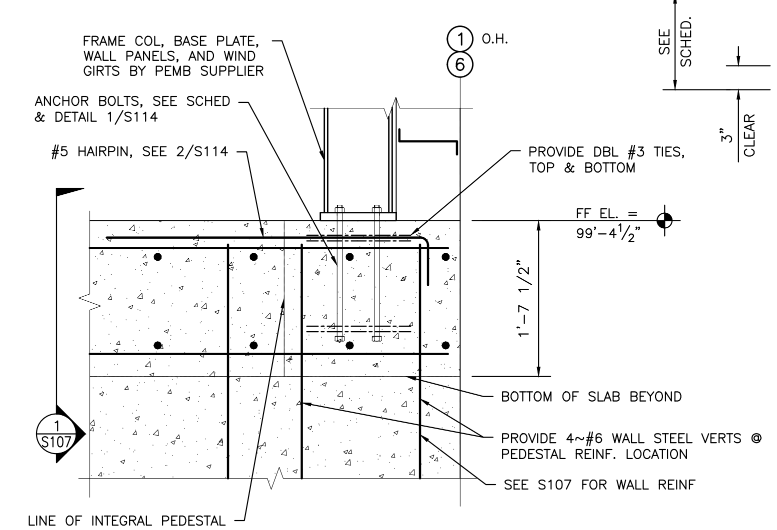
TIE BEAM

4/S113 SCALE: 1/2" = 1'-0"



INTEGRAL PEDESTAL

5/S113 SCALE: 1/2" = 1'-0"



INTEGRAL PEDESTAL

6/S113 SCALE: 1/2" = 1'-0"

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S113 COLBURN - NEW WTB STRUCT DETAILS - FDN FOOTING, ANCHOR BOLT.dwg

NO.	REVISION DESCRIPTION	BY	DATE

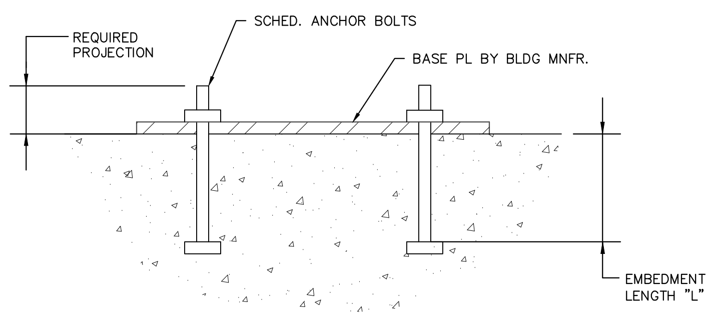
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 8156 2/14/23 STATE OF IDAHO MARY A. STELLING

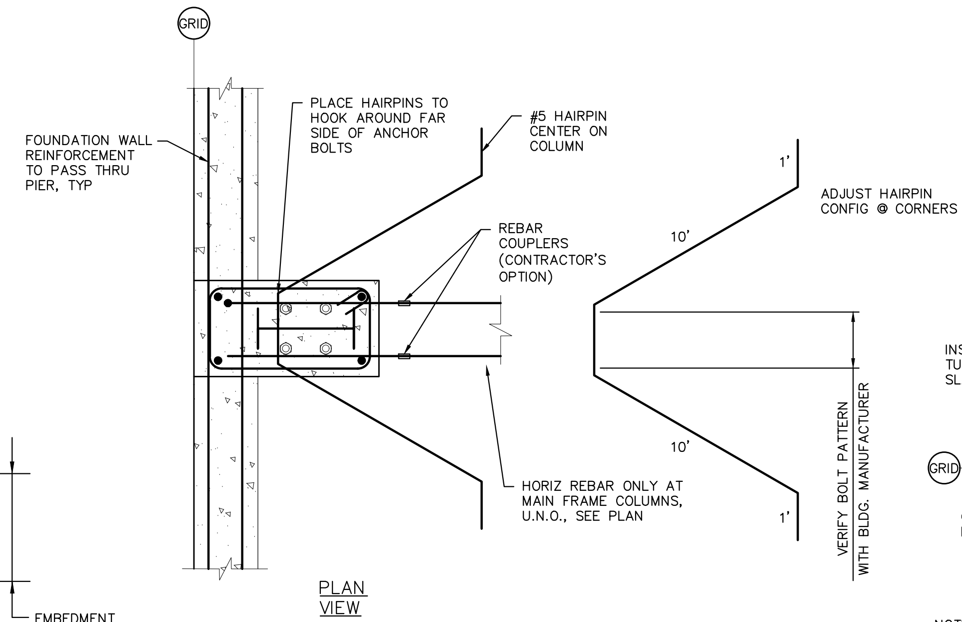
GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201 BOISE, ID 83703 (208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB STRUCT DETAILS - FDN FOOTING, ANCHOR BOLT SCHEDULES

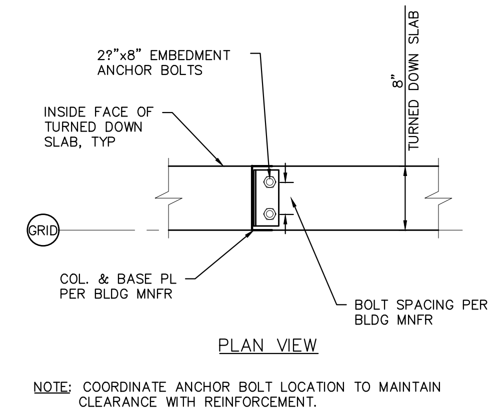
SHEET NO.
S113



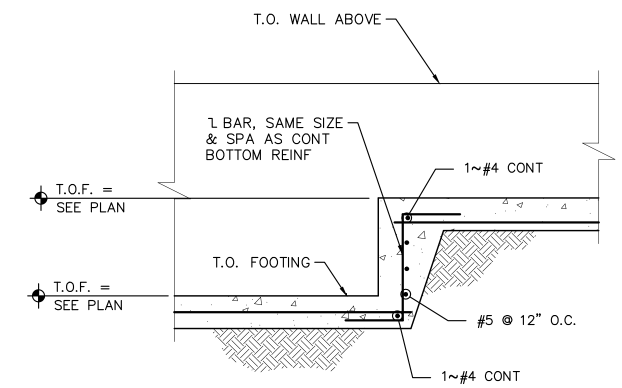
1/S114 **TYP. ANCHOR BOLTS**
SCALE: NTS



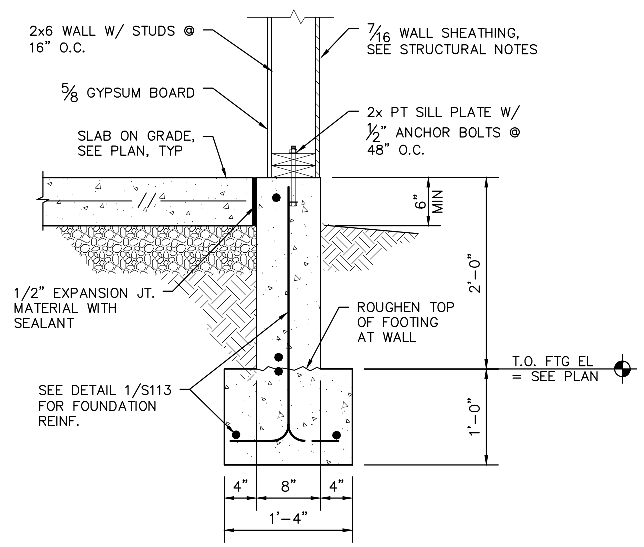
2/S114 **DETAIL**
SCALE: NTS



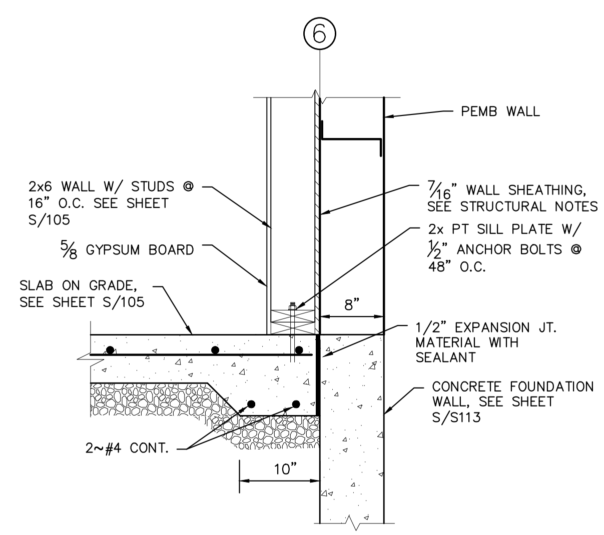
3/S114 **DETAIL @ METAL DOORS**
SCALE: 1/2" = 1'-0"



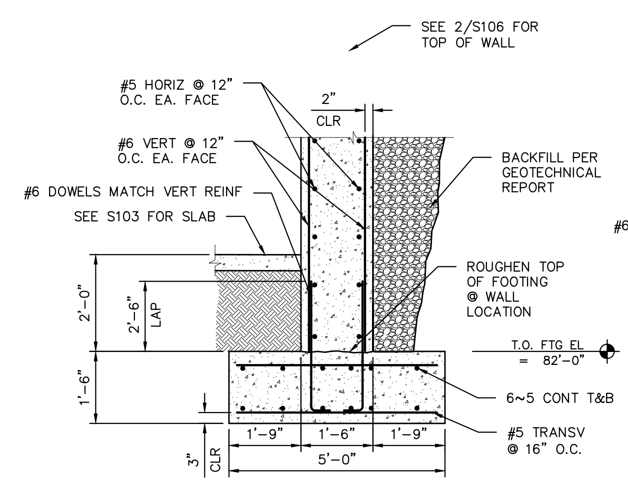
4/S114 **TYPICAL STEPPED FOOTING**
SCALE: 1/2" = 1'-0"



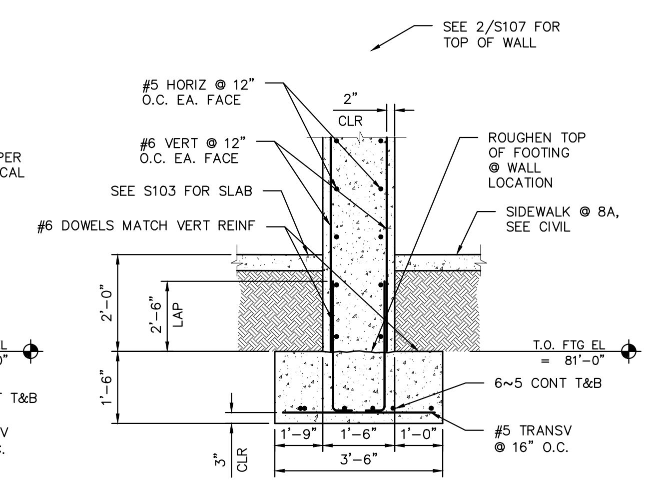
5/S114 **FOUNDATION DETAIL**
SCALE: NTS



6/S114 **FOUNDATION DETAIL**
SCALE: NTS



7/S114 **WALL FOOTING SECTION**
SCALE: 1/4" = 1'-0"



8/S114 **WALL FOOTING SECTION**
SCALE: 1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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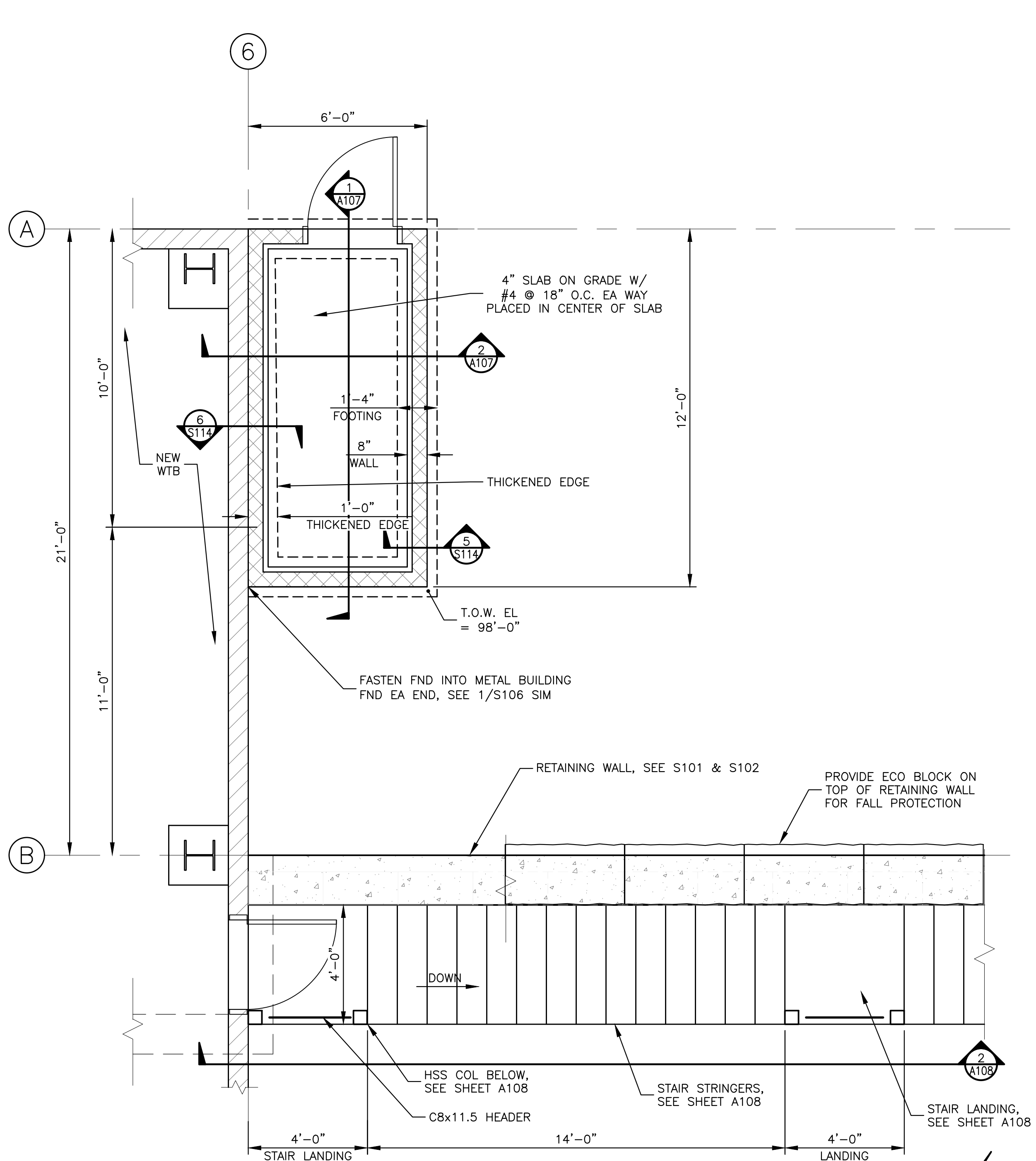
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW WTB STRUCTURAL DETAILS - FDN TIPPING LEVEL

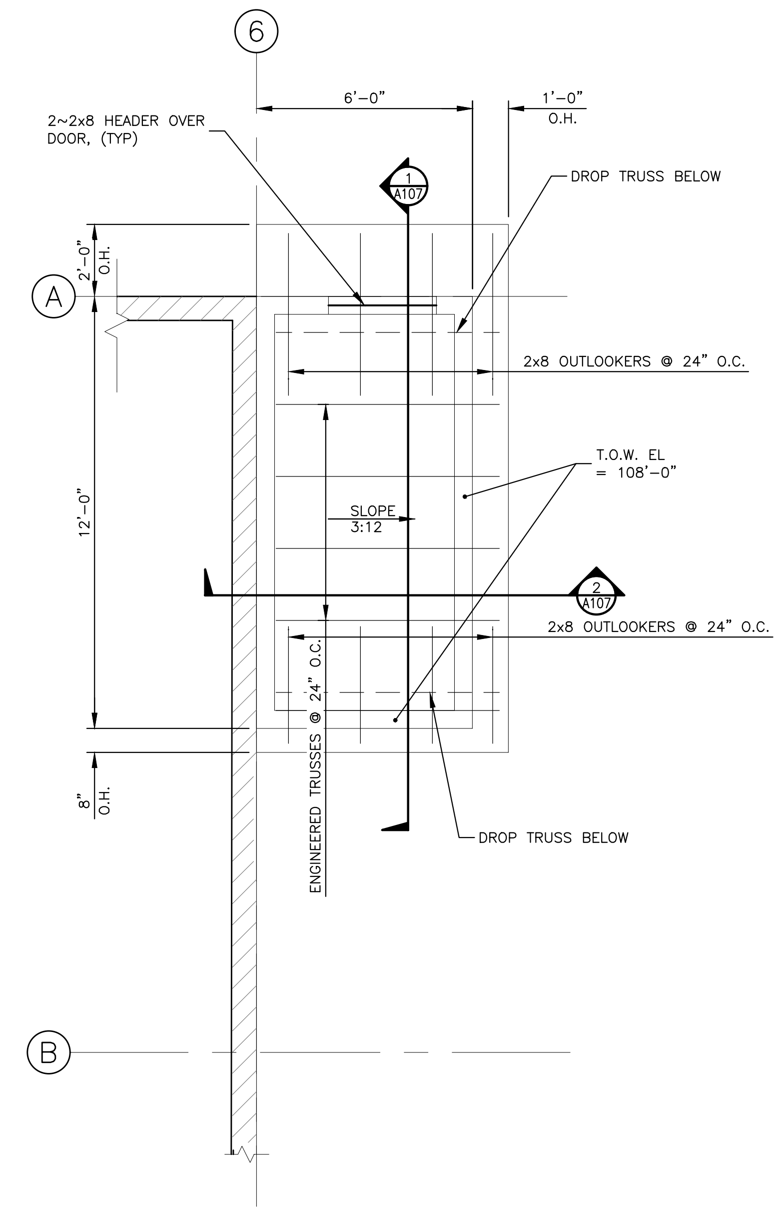
SHEET NO.
S114



AUXILIARY BUILDING FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

REF. F.F. ELEV. =100'-0"
ACTUAL F.F. ELEV. = 2224.0



AUXILIARY BUILDING ROOF PLAN

SCALE: 3/16" = 1'-0"

REF. T.O.W. ELEV. =108'-0"

LEGEND

T.O.F.	TOP OF FOOTING ELEVATION
T.O.w.	TOP OF WALL ELEVATION
(crosshatch)	2x6 WALL W/ STUDS @ 16" O.C.
(hatch)	PEMB WALLS PER MANUFACTURER

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APPROVED: MAS
DATE: FEBRUARY 2023

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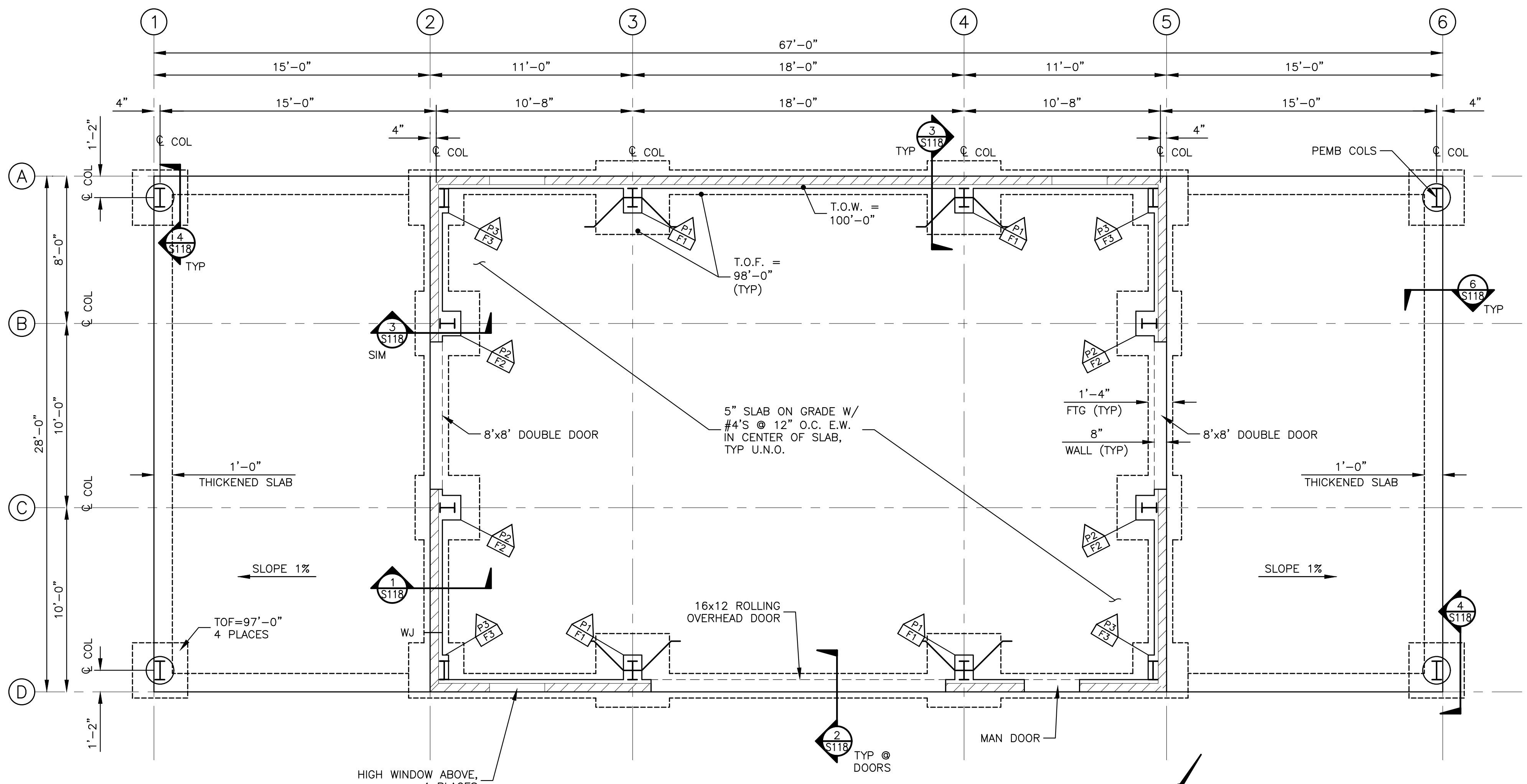
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
AUXILLARY BUILDING FND & FRAMING PLAN

SHEET NO.
S115

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S115 COLBURN - NEW WTB FDN & FLOOR PLAN - BATHROOM & ELECT PLAN.dwg

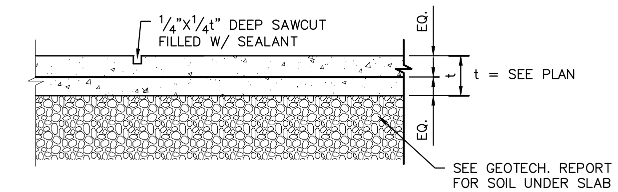


CFC REMOVAL BUILDING FOUNDATION PLAN

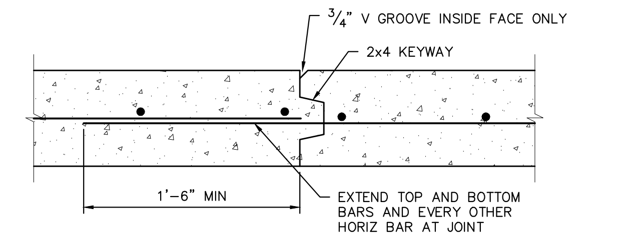
REF. FF EL. = 100'-0" SCALE: 1/8" = 1'-0"

NOTE: PROVIDE SLAB CONSTRUCTION JOINTS @ ABOUT 10-12 FEET EA. WAY, SEE 1/S116. DO NOT PLACE JOINTS OVER HAIRPINS.

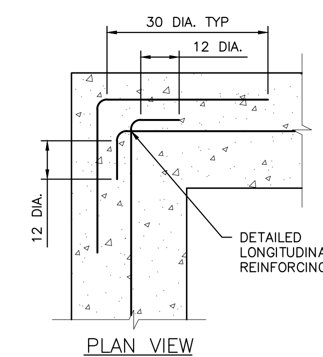
NOTE: SLAB MUST BE CUT AS SOON AS CONCRETE CAN BE SAWN WITHOUT UNRAVELING THE AGGREGATE OR A MAXIMUM OF 8 HOURS.



1 S116 **TYP. CONTRACTION JOINT (CJ)**
SCALE: NTS



2 S116 **WALL CONSTRUCTION JOINT (WJ)**
SCALE: NTS CONTRACTOR'S OPTION



NOTE: CORNER BARS SAME SIZE AND QUANTITY AS LONGITUDINAL REINFORCING

3 S116 **TYP CORNER REINFORCING**
SCALE: NTS

LEGEND

CJ	CONTRACTION JOINT, SEE DETAIL 1/S116
T.O.W.	TOP OF WALL ELEVATION
T.O.F.	TOP OF FOOTING ELEVATION
W.J.	WALL CONSTRUCTION JOINT, SEE DETAIL 2/S116
(hatch)	PEMB WALLS, GIRT SIZE & SPACING PER MANUFACTURER
PX	CONCRETE PEDESTAL, SEE SCHEDULE SHEET S119
FX	CONCRETE FOOTING, SEE SCHEDULE SHEET S119

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\COLBURN - CFC REMOVAL FOUNDATION PLAN.dwg

NO.	REVISION DESCRIPTION	BY	DATE

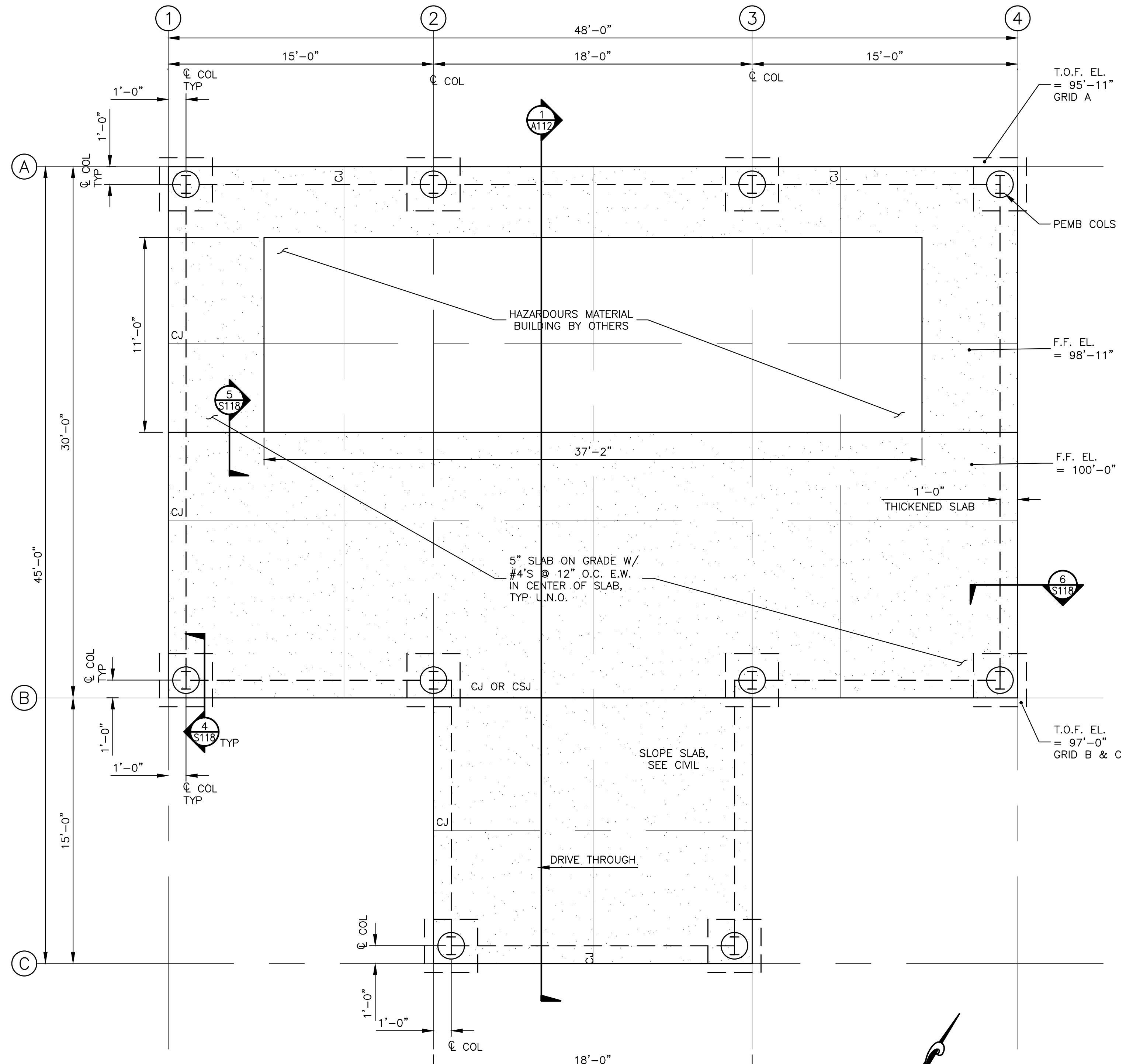
PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL BUILDING - FOUNDATION PLAN

SHEET NO.
S116



LEGEND

CJ	CONTRACTION JOINT, SEE DETAIL 1/####
F.F.	FINISHED FLOOR (SLAB) ELEVATION
T.O.F.	TOP OF FOOTING ELEVATION

HHW FACILITY FOUNDATION & SLAB PLAN

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

NORTH

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER
REGISTERED
9156
2/14/23
STATE OF IDAHO
MARY A. STELLING

GreatWest ENGINEERING
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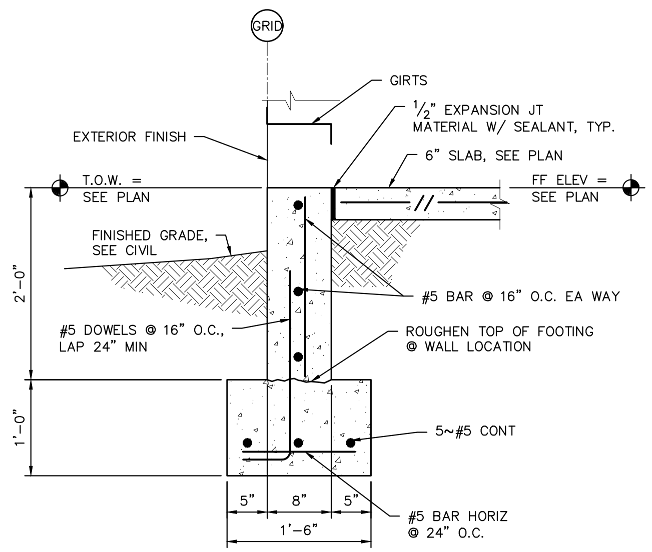
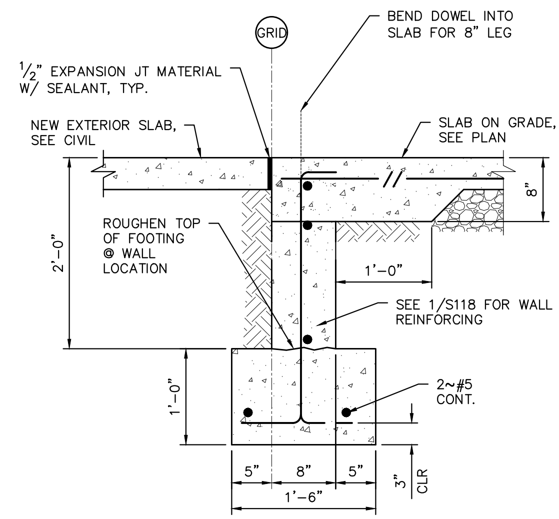
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
HHW FACILITY FOUNDATION & SLAB PLAN

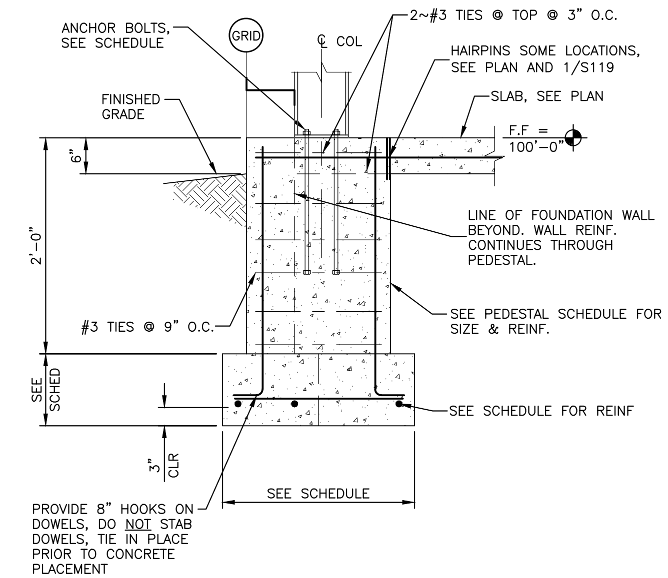
SHEET NO.
S117



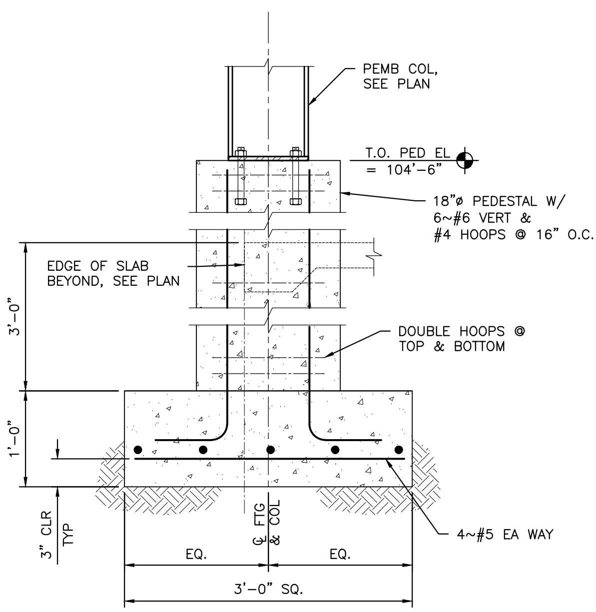
1 S118 **FOUNDATION WALL DETAIL**
SCALE: 1/2" = 1'-0"



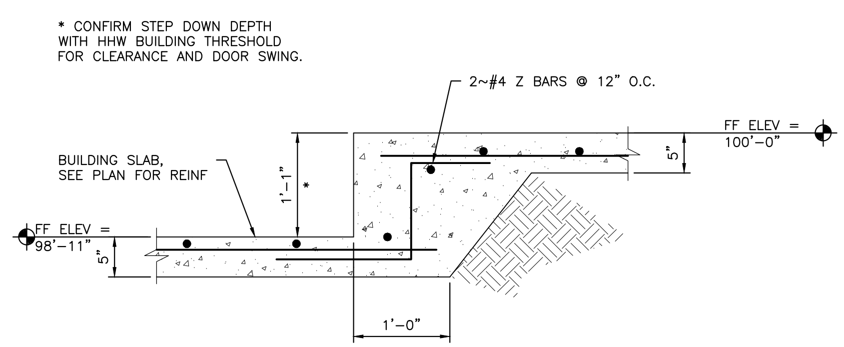
2 S118 **FOUNDATION WALL @ DOORWAYS**
SCALE: 1/2" = 1'-0"



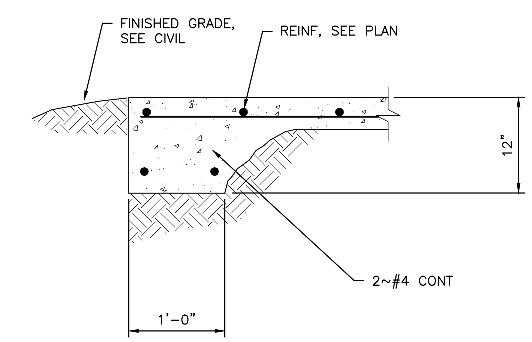
3 S118 **FOOTING / PEDESTAL DETAIL**
SCALE: 3/4" = 1'-0"



4 S118 **PEDESTAL AND FOOTING DETAIL**
SCALE: 1/2" = 1'-0"



5 S118 **SLAB STEP DETAIL**
SCALE: NTS



6 S118 **THICKENED EDGE DETAIL**
SCALE: NTS

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER
REGISTERED
9156
2/14/23
STATE OF IDAHO
MARY A. STELLING

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL & HHW FACILITY FOUNDATION DETAILS

SHEET NO.
S118

SPOT FOOTING SCHEDULE**

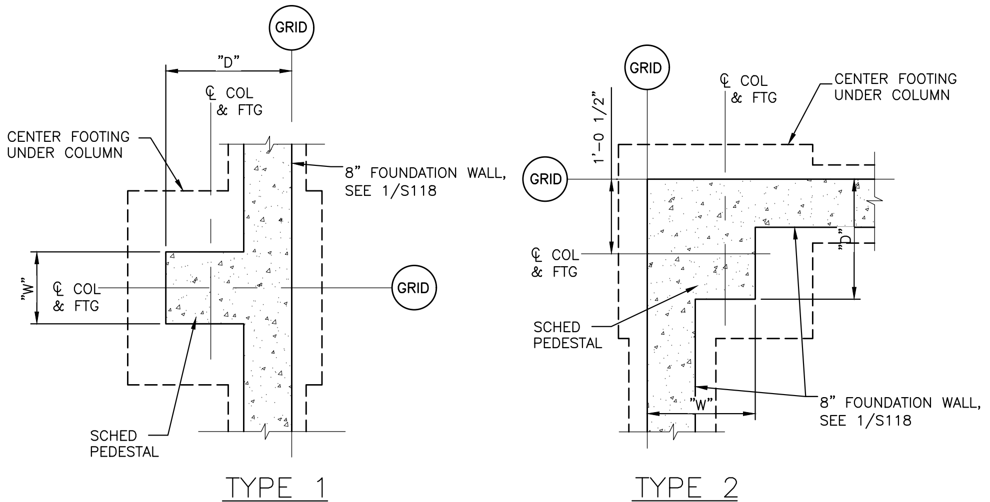
MARK	FOOTING TYPE	FOOTING SIZE	DEPTH	REINFORCING	REMARKS
F1	1	4'-0"x4'-0"	12"	6~#5 EA WAY	SEE DETAIL 3/S118
F2	1	3'-6"x3'-6"	12"	5~#5 EA WAY	SEE DETAIL 3/S118 (SIM)
F3	2	3'-0"x3'-0"	12"	4~#5 EA WAY	SEE DETAIL 3/S118

* SEE DETAIL 1/S114 FOR TYP ANCHOR BOLT. SIZES WILL NEED TO BE CHECKED WHEN FINAL BUILDING PACKAGE IS PROVIDED.

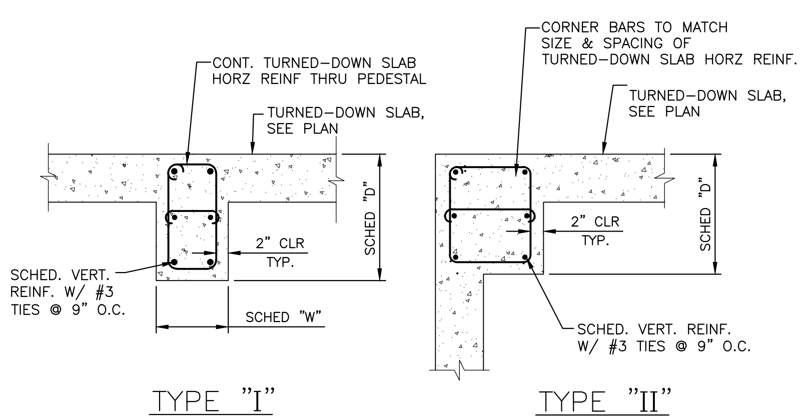
PEDESTAL & ANCHOR BOLT SCHEDULE**

MARK	PEDESTAL SIZE "D" x "W"	PED. TYPE	VERTICAL REINF.	*ANCHOR BOLTS # X ø X L
P1	20x14	I	4~#5	4~3/4"øx14"
P2	20x14	I	4~#5	4~3/4"øx12"
P3	20x22	II	6~#5	4~1 3/4"øx12"

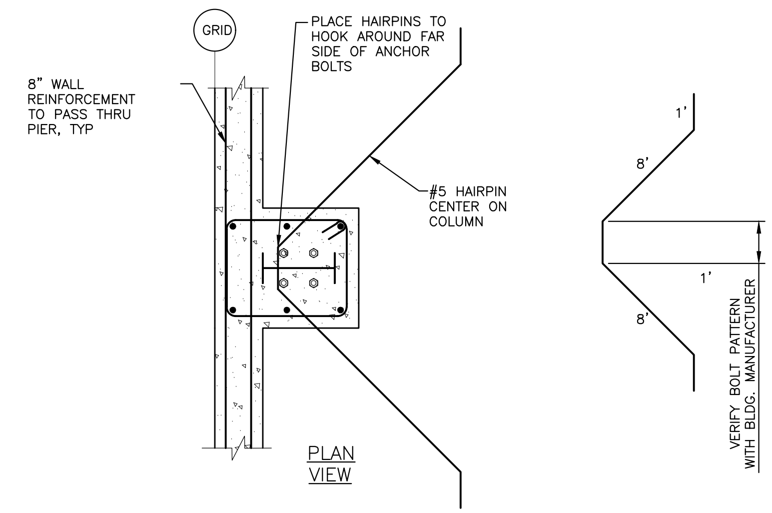
** NO METAL BUILDING DRAWINGS HAVE BEEN PROVIDED AND THEREFORE PEDESTAL SIZES ARE SUBJECT TO CHANGE ONCE INFORMATION HAS BEEN RECEIVED FROM THE PEDESTAL, BASE PLATE, AND ANCHOR BOLT CONTRACTOR. CONTRACTOR MUST SUBMIT METAL BUILDING DRAWINGS ONCE OBTAINED FOR VERIFICATION OF LAYOUT AND DESIGN BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTING METAL BUILDING FOUNDATION.



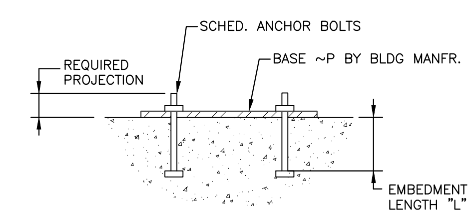
A (S119) **FOOTING TYPES**
SCALE: N.T.S.



B (S119) **PEDESTAL TYPES**
SCALE: N.T.S.



1 (S119) **DETAIL**
SCALE: N.T.S.



2 (S119) **TYP. ANCHOR BOLTS**
SCALE: N.T.S.

NO.	REVISION DESCRIPTION	BY	DATE

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DESIGNED: MAS
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PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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3050 N. LAKEHARBOR LANE SUITE 201
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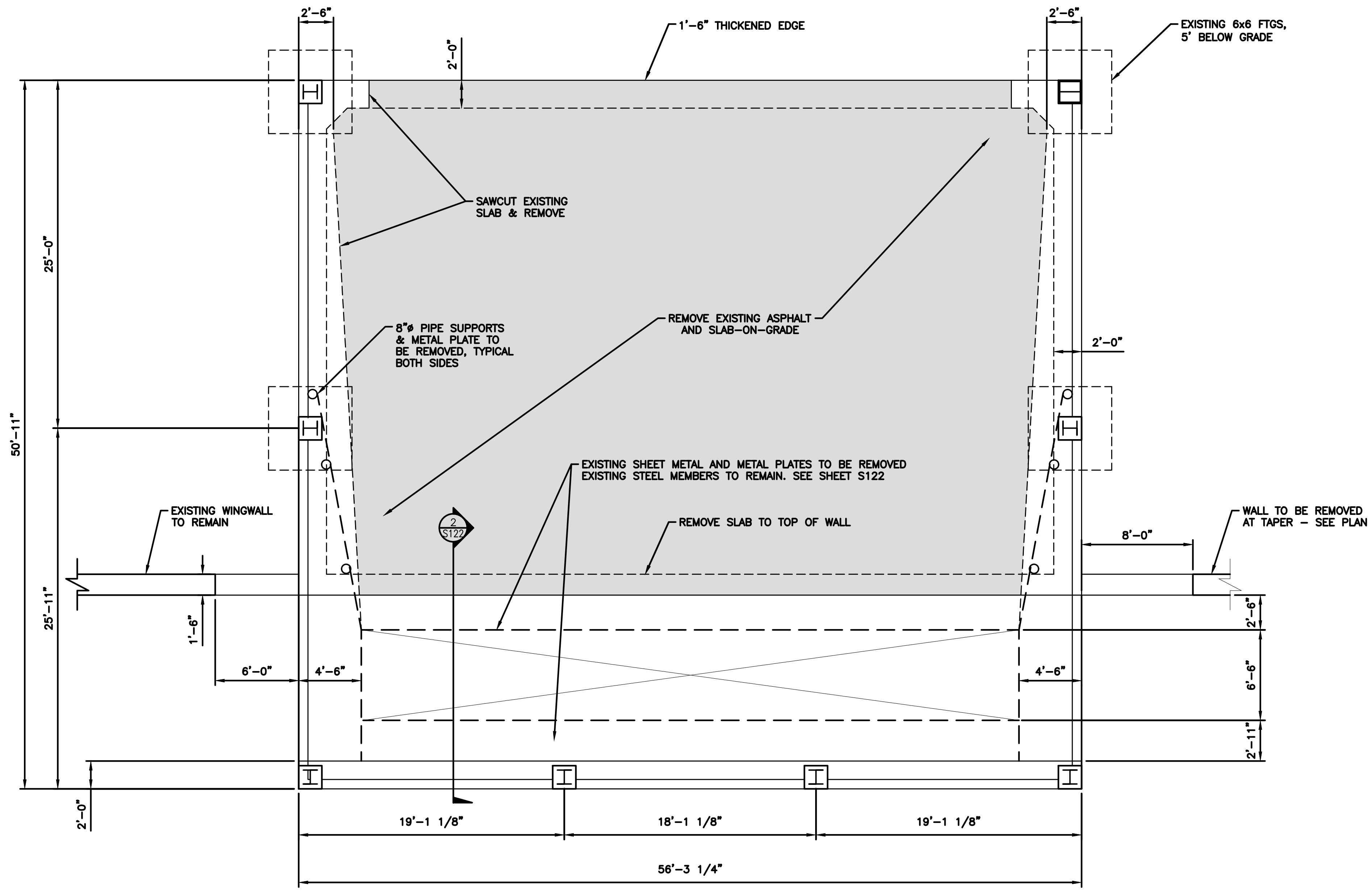
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL & HHW FACILITY FOUNDATION DETAILS

SHEET NO.
S119



EXISTING WTB DEMO PLAN - TIPPING LEVEL

SCALE: 1"=10'

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

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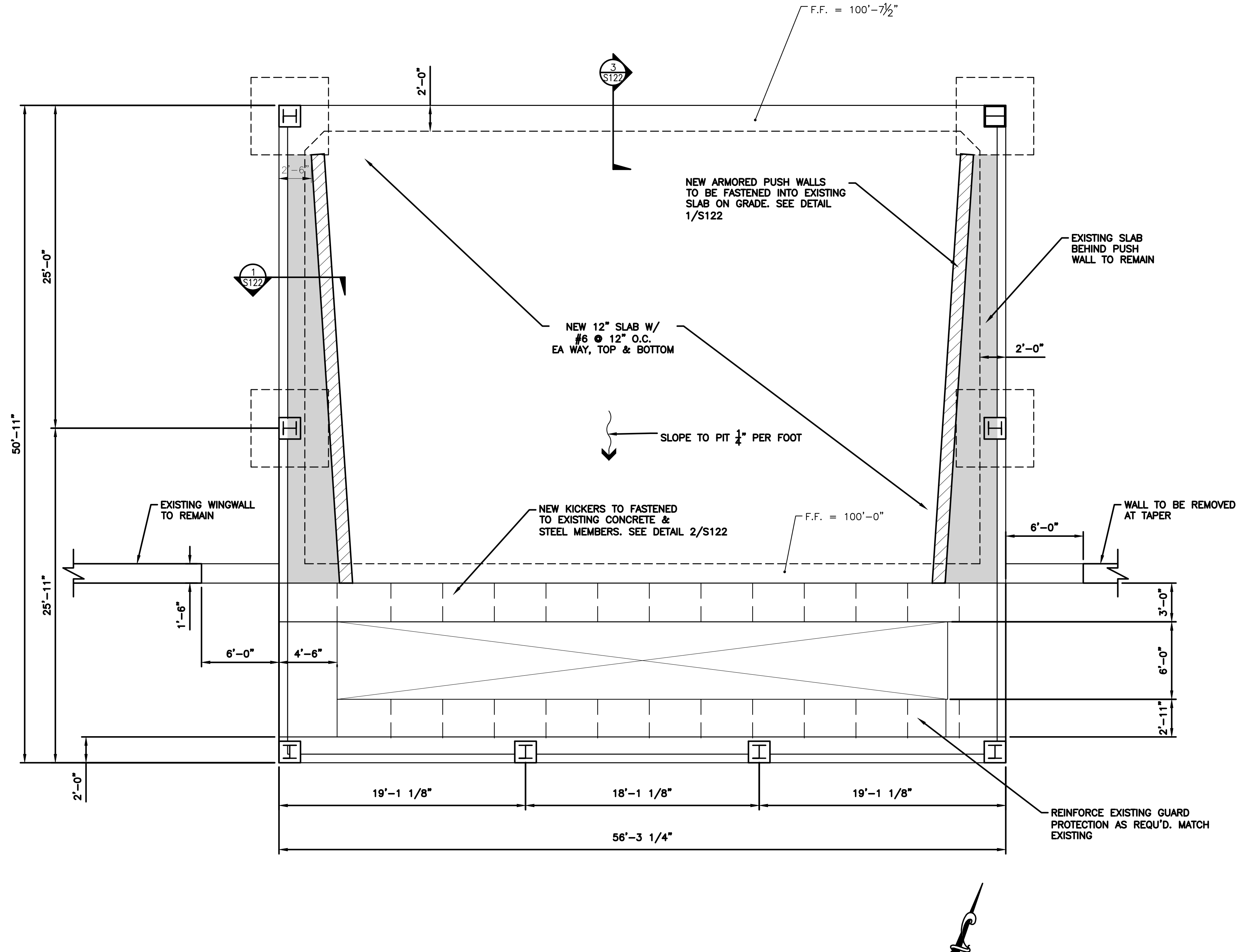
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
EXST WTB DEMO PLAN - TIPPING LEVEL

SHEET NO.
S120



EXISTING BUILDING PLAN - TIPPING LEVEL

SCALE: 1"=10'

0 5 10
SCALE IN FEET

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: MAS
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: FEBRUARY 2023

PROFESSIONAL ENGINEER REGISTERED 9156 2/14/23 STATE OF IDAHO MARY A. STELLING

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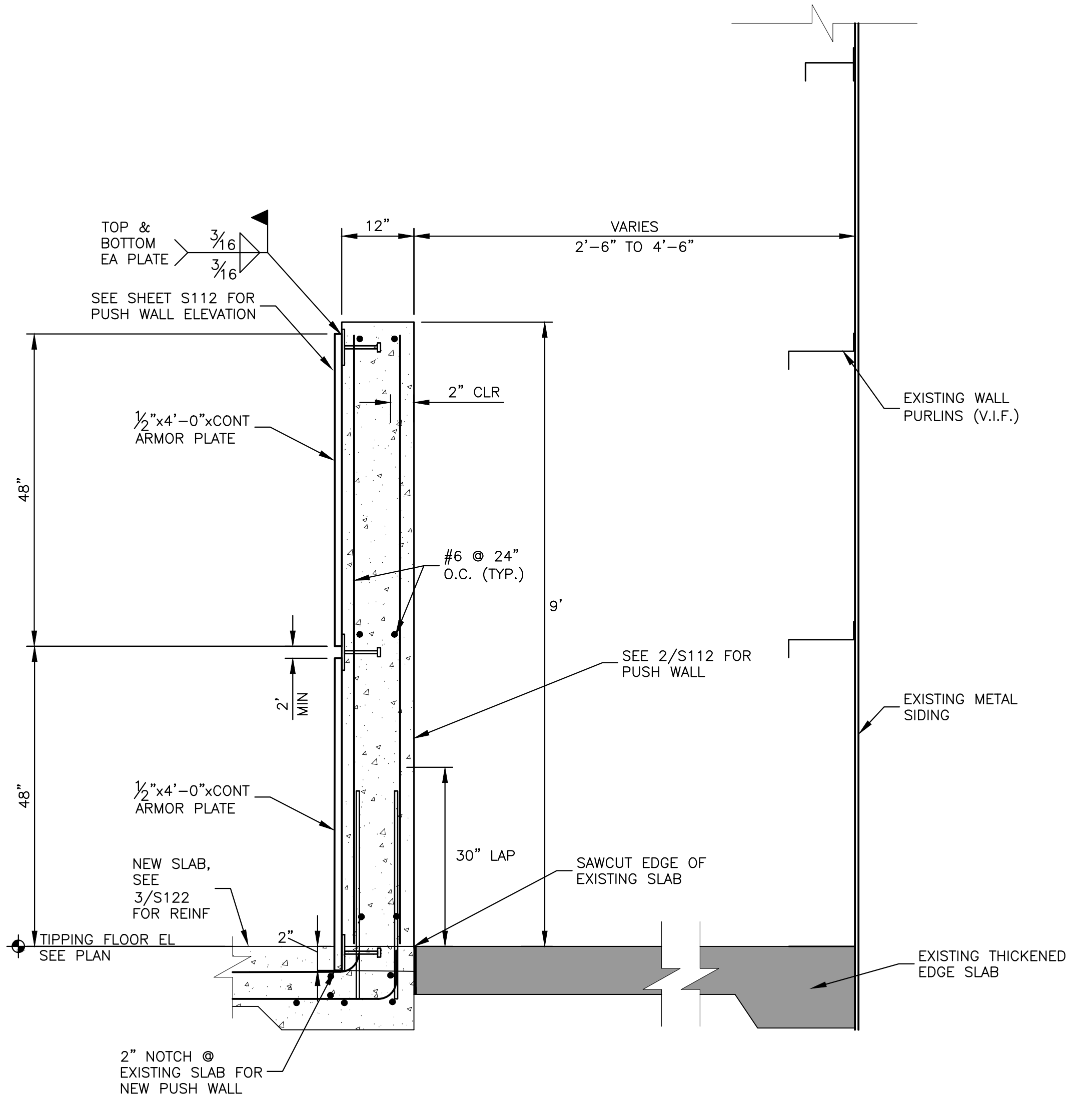
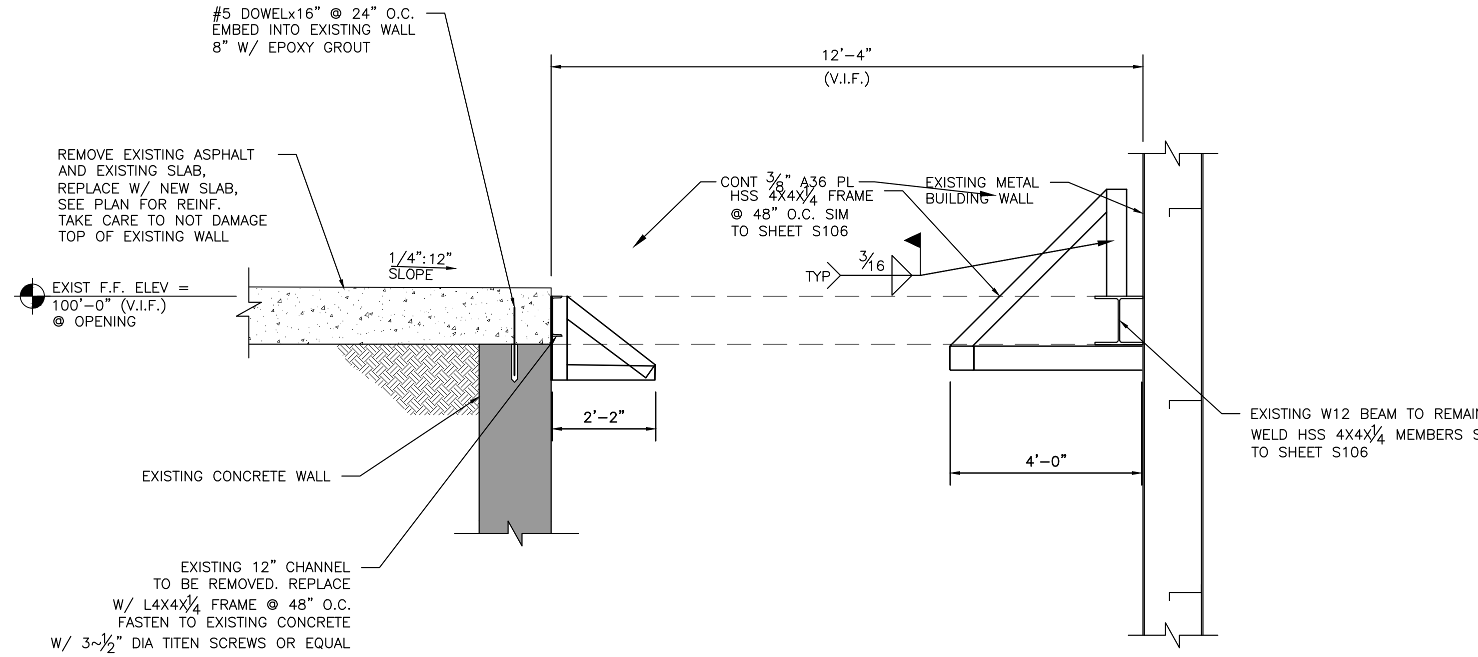
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
EXST WTB FOUNDATION & FLOOR PLAN - TIPPING LEVEL

SHEET NO.
S121

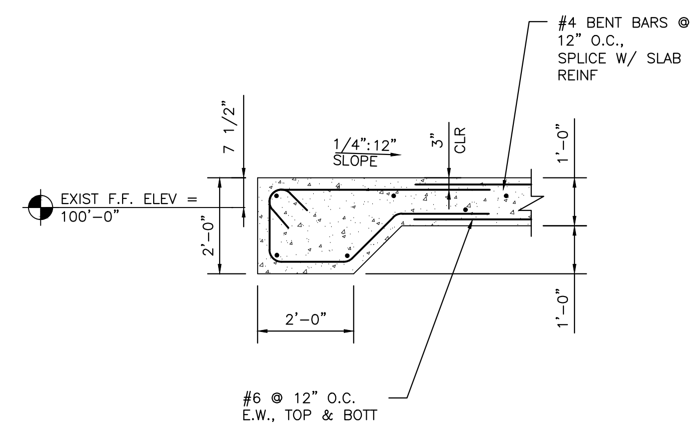
y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S121 COLBURN - EXST WTB FOUNDATION & FLOOR PLAN - TIPPING LEVEL.dwg



1 S122 **PUSH WALL ARMOR PLATE DETAIL - SECTION**
SCALE: 3/8" = 1'-0"



2 S122 **PUSH ARMOR PLATE DETAIL - SECTION**
SCALE: 1/4" = 1'-0"



3 S122 **THICKENED EDGE SLAB @ ENTRY**
SCALE: 1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

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DESIGNED: MAS
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(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
EXST WTB STRUCTURAL DETAILS - ANCHOR WALLS

SHEET NO.
S122

y:\Shared\boise projects\4-21115-bonner co solid waste improvements\cadd 4-21115\Sheets\S122 COLBURN - EXST WTB STRUCTURAL DETAILS - ANCHOR WALLS.dwg

PLUMBING LEGEND

SYMBOL	DEFINITION	ABBREV.
	COLD WATER	CW
	HOT WATER	HW
	HOT WATER RETURN	HWR
180°	HOT WATER W/TEMP. INDICATED	-
G	NATURAL GAS (BELOW 1PSI)	NG
G(#PSI)	NATURAL GAS (ABOVE 1PSI)	NG(#PSI)
LPG	LIQUID PROPANE GAS	LPG
	WASTE PIPING	W
	VENT PIPING	V
IW	INDIRECT WASTE PIPING	IW
CD	CONDENSATE DRAIN PIPING	CD
COTG	CLEAN OUT TO GRADE	COTG
COTF	CLEAN OUT TO FLOOR	COTF

PLUMBING/PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- RISE/DROP IN PIPE
- CAP
- CLEAN-OUT (WALL)
- FLOOR DRAIN
- CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW)
- VALVE (AS INDICATED OR SPECIFIED)
- CHECK VALVE
- HOSE BIBB
- CIRCUIT SETTER
- EXTENSION & CONTINUATION

NEW WORK KEY

EXISTING WORK (LIGHT)	
NEW WORK (DARK)	
CONNECT NEW TO EXISTING	

DEMOLITION KEY

EXISTING WORK (LIGHT)	
DEMOLITION (DARK)	—X—X—
POINT OF DEMOLITION	

HVAC BASIS OF DESIGN

OUTDOOR DESIGN TEMPERATURES	92°F Db SUMMER 65°F Wb SUMMER 4°F Db WINTER	STATE: IDAHO	COUNTY: BONNER	CLIMATE ZONE: 6B
		DESIGN ALTITUDE 2,364 FT ABOVE SEA LEVEL		

INDOOR AREA DESIGN CONDITIONS	SUMMER		WINTER	
GENERAL SPACE DESIGNATION	Db (°F)	% HUMIDITY	Db (°F)	% HUMIDITY
OFFICE, ETC.	75	50	72	50

PIPING LEGEND

ADDITIONAL SYMBOLS

- AVS — AIR VOLUME TRAVERSE STATION
- ACD — AUTOMATIC CONTROL DAMPER W/ACCESS DOOR
- SGD — SLIDE GATE DAMPER
- VD — MANUAL VOLUME DAMPER
- FD — SELF-CLOSING FIRE DAMPER W/ACCESS DOOR
- SD — AUTOMATIC SMOKE DAMPER W/ACCESS DOOR
- SFD — COMBINATION SMOKE/FIRE DAMPER W/ACCESS DOOR
- BD — BACKDRAFT DAMPER
- M — MOTORIZED DAMPER
- STANDARD 4-WAY BLOW SUPPLY DIFFUSER
- BLANKED FOR 3-WAY BLOW SUPPLY DIFFUSER
- OR — BLANKED FOR 2-WAY BLOW SUPPLY DIFFUSER
- BLANKED FOR 1-WAY BLOW SUPPLY DIFFUSER
- ROOF EXHAUST FAN SHOWN ON ROOF
- ROOF EXHAUST FAN SHOWN ON FLOOR PLAN
- UC 1/2" — UNDERCUT DOOR
- LVDR 1.5 SF — LOUVERED DOOR
- RETURN OR EXHAUST AIR FLOW DIRECTION
- SUPPLY AIR FLOW
- CONNECT NEW TO EXISTING
- POINT OF DEMOLITION
- # / # — SECTION DESIGNATION / SHEET NUMBER
- T — TEMPERATURE SENSOR OR THERMOSTAT
- 1 — FIRE DAMPER

AIR OUTLET CALLOUT

XxX [X] XXX,XxX,XX°

1. NECK SIZE (IN)
2. AIR OUTLET TYPE
3. AIRFLOW (CFM)
4. SIZE (IN) OF CONNECTING BRANCH DUCT
5. ANGLE OF THROW, DOWN FROM HORIZONTAL (°)

DUCTWORK SYMBOLS

SINGLE LINE | DOUBLE LINE | SINGLE LINE | DOUBLE LINE

- ROUND DUCT UP
- ROUND DUCT DOWN
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- OR — STANDARD RADIUS ELBOW (R = W) SUPPLY/RETURN /EXHAUST (W, R)
- TURNING VANES
- OR — BULLHEAD SPLIT SUPPLY
- CEILING DUCT MTD. DIFF/GRILLE
- TAKEOFF TO DIFF/GRILLE; HARD ELBOW
- CEILING DUCT MTD. DIFF/GRILLE
- ACOUSTICALLY LINED DUCT
- DUCTWORK OR EQUIPMENT TO BE REMOVED
- OPEN END DUCT W/ 1/4"x1/4" WMS
- FLEXIBLE DUCT
- RETURN DUCT UP
- EXHAUST DUCT UP
- RETURN DUCT DOWN
- EXHAUST DUCT DOWN
- HORIZONTAL OFFSET SUPPLY/RETURN /EXHAUST
- RISE/DROP — RISE OR DROP SUPPLY/RETURN/ EXHAUST (RISE UP, DROP DN)
- 45°F TAP TAKE-OFF
- 90°F TAP TAKE-OFF; RECT. TAP; ROUND DUCT; ROUND TAP; RECT TAP
- RECTANGULAR MAIN DUCT
- 90°F TAP TAKE-OFF; ROUND TAKEOFF
- ROUND MAIN DUCT
- BULLHEAD CONVERGE RETURN/EXHAUST
- SIDEWALL DUCT MTD. REG./GRILLE
- SUPPLY SIDEWALL LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LENGTH) (VD, VD)
- SUPPLY CEILING LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LENGTH) (VD, VD, BOOT BY LD MF'R)

P-14003

2-20-24

KARTCHNER ENGINEERING — MECHANICAL AND PLUMBING SYSTEM DESIGN

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: JCJ
DRAWN: JCJ
CHECKED: JCJ
APPROVED: MAK
DATE: FEBRUARY 2023

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
MECHANICAL & PLUMBING LEGENDS AND GENERAL NOTES

SHEET NO.
M100

ELECTRIC WALL HEATER SCHEDULE

TAG	SERVICE	MANUF.	MODEL NO.	TYPE	AIR FLOW (CFM)	ELECTRICAL						WEIGHT (LBS)	CONTROL	NOTES
						HEATER KW	VOLT	PHASE	AMP	MOTOR HP				
EWH 1	NEW TRANSFER BLDG. MECH / ELECT RM	INDEECO	WLI	WALL	40	0.5	120	1	4.6	42 WATTS		10	WALL STAT	1

NOTES:
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT
2. INTERLOCK WITH SPLIT SYSTEM FOR EMERGENCY HEAT.

ELECTRIC TANK TYPE WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION	SERVICE	MANUFACTURER AND MODEL NUMBER	TANK SIZE (GALLONS)	EFFICIENCY (UEF)	ELECTRIC HEAT			RECOVERY				ELECTRICAL			NOTES
						ELEMENTS (QTY)KW	STEPS	OPERATION	GPH	INLET TEMP. (°F)	OUTLET TEMP. (°F)	TOTAL FIRST HOUR CAPACITY (GPH)	VOLTAGE	PHASE	AMPS	
WH-1	TANK TYPE	NEW TRANSFER BUILDING	AO SMITH DRE-52-12	50	-	(3) 4.1	3	SIMULTANIOUS	50	40	140	85	240	1	51	1, 2

NOTES:
1. PROVIDE P&T RELIEF VALVE
2. PROVIDE EXPANSION TANK AMTROL ST-5

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER AND CATALOG #	FAUCET/FLUSH VALVE	CONNECTIONS				NOTES
				HW	CW	W	V	
FD-1	FLOOR DRAIN	JR SMITH FIG 2005	ROUND STRAINER, NICKEL BRONZE STRAINER, FUNNEL, & TRAP PRIMER CONNECTION	-	-	-	-	SEE DRAWINGS FOR DRAIN WASTE AND VENT SIZE, PROVIDE P-TRP WITH TRAP PRIMER CONNECTION.
ESE-1	EMERGENCY SHOWER/EYE WASH	GUARDIAN GFR3500-HV-TL-FP	FC20 20 GPM FLOW REGULATOR, TMV G6044 MIXING VALVE	1"	1"	-	-	UNIT TO BE HEAT TRACED FOR FREEZE PROTECTION, CLASS 1 DIV. 2 ENVIRONMENT, 240V/1Ø HEAT RACING WITH INDICATOR LIGHT, FREEZE PROTECTION VALVE
HB-1	HOSE BIBB	WOODFORD MODEL 24	VACUUM BREAKER	-	3/4"	-	-	CHROME FINISH, HAND WHEEL OPERATION, AND HOSE CONNECTION
BFP-1	REDUCED PRESSURE BACK FLOW PREVENTER	WATTS LF009M2 QT	LEAD FREE, QUARTER TURN VALVES AIR GAP FITTING	-	-	-	-	SEE FLOOR PLANS FOR SIZE

EXHAUST FAN SCHEDULE

#	MFG	MODEL	SERVICE	DRIVE	CFM	ESP (")	FAN RPM	SONE LEVEL	MOTOR			NOTES
									HP	VOLTS	PHASE	
EF 1	GREENHECK	SBE-2L60-50	NEW WTB FLOOR DUST CONTROL	BELT	43,000	0.125	370	27	5.0	230	1	1, 2, 3
EF 2	GREENHECK	SBE-2L60-50	NEW WTB FLOOR DUST CONTROL	BELT	43,000	0.125	370	27	5.0	230	1	1, 2, 3

NOTES:
1. PROVIDE GRAVITY BACK DRAFT DAMPER
2. PROVIDE SHORT WALL HOUSING FOR FAN FLUSH WITH OUTSIDE WALL
3. PROVIDE OSHA MOTOR GUARD
4. PROVIDE FAN MOUNTED SPEED SWITCH
5. PROVIDE GRILLE MOUNTED OCCUPANCY SENSOR TO OPERATE FAN
6. PROVIDE WALL CAP

WASTE OIL UNIT HEATER SCHEDULE

#	MFR/MODEL #	CFM	MBH (OUT)	GPM	FLUE	MOTOR		WEIGHT	NOTES
						HP	V/Ø		
UH 1	CLEAN ENERGY CE-140	1700	140	1.0	6"Ø	1/12	115/1	125	1, 2

NOTES:
1. PROVIDE HEATING CENTER KIT WITH FLOOR STAND, 250 GALLON TANK, FILTER DRAIN PAN, PUMP MOUNT BRACKET, 4" TANK EMERGENCY VENT, VENT-WEATHER RESISTANT BREATHER, LOW OIL CUT OFF SWITCH, AIR COMPRESSOR, AIR FILTER/REGULATOR WITH DRAIN AND PRESSURE GAUGE.
2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.

P-14003

2-20-24

KARTCHNER ENGINEERING
MECHANICAL AND PLUMBING SYSTEM DESIGN

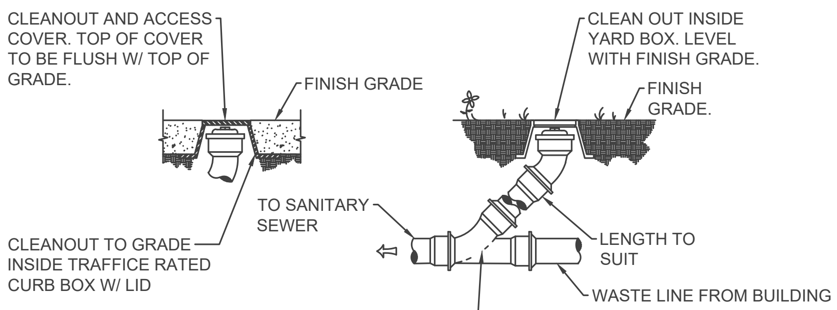
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-21115
DESIGNED: JCJ
DRAWN: JCJ
CHECKED: JCJ
APPROVED: MAK
DATE: FEBRUARY 2023

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
MECHANICAL & PLUMBING SCHEDULES

SHEET NO.
M101

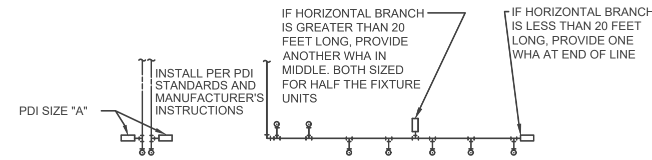


CLEANOUT TO GRADE (COTG)

CLEANOUT LOCATED IN HIGH TRAFFIC AREA

7 CLEAN-OUT TO GRADE DETAIL

SCALE: NOT TO SCALE



SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

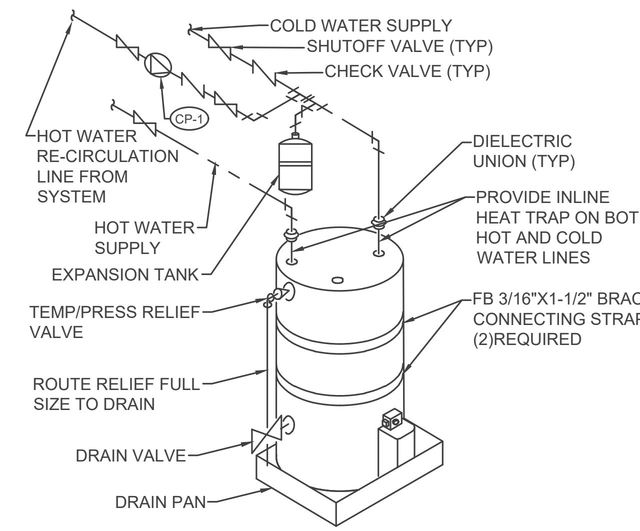
MULTIPLE FIXTURES

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

4 WATER HAMMER ARRESTOR DETAIL

SCALE: NOT TO SCALE



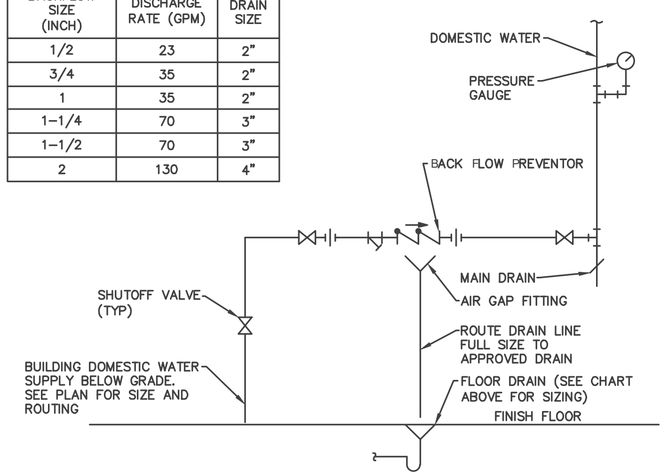
GENERAL NOTES:

1. WATER HEATER SHALL BE SUPPLIED WITH TEMPERATURE CONTROLS WHICH WILL PERMIT THE DISCHARGE TEMPERATURE TO BE SET TO 90° F, BUT WILL BE SET AT 110° F.
2. THE DOMESTIC HOT WATER RECIRCULATION PUMP IS TO BE CONNECTED TO A MINIMUM OF A 7-DAY TIME CLOCK THAT IS CAPABLE OF BEING SET FOR AT LEAST SEVEN (7) DIFFERENT DAY TYPES PER WEEK.
3. THE TIME CLOCK CONTROLLING THE DOMESTIC HOT WATER RECIRCULATION PUMP MUST HAVE BACK-UP CAPABILITIES THAT WILL RETAIN PROGRAM AND TIME SETTINGS FOR AT LEAST TEN (10) HOURS UPON A LOSS OF POWER.

1 WATER HEATER DETAIL

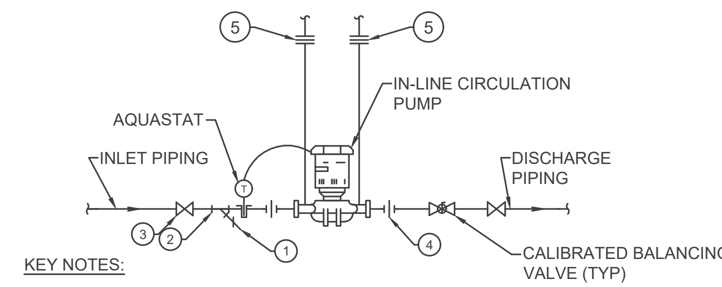
SCALE: NOT TO SCALE

DRAIN SIZE		
BACKFLOW SIZE (INCH)	DISCHARGE RATE (GPM)	DRAIN SIZE
1/2	23	2"
3/4	35	2"
1	35	2"
1-1/4	70	3"
1-1/2	70	3"
2	130	4"



5 WATER HEADER WITH BFP DEVICE DETAIL

SCALE: NOT TO SCALE



KEY NOTES:

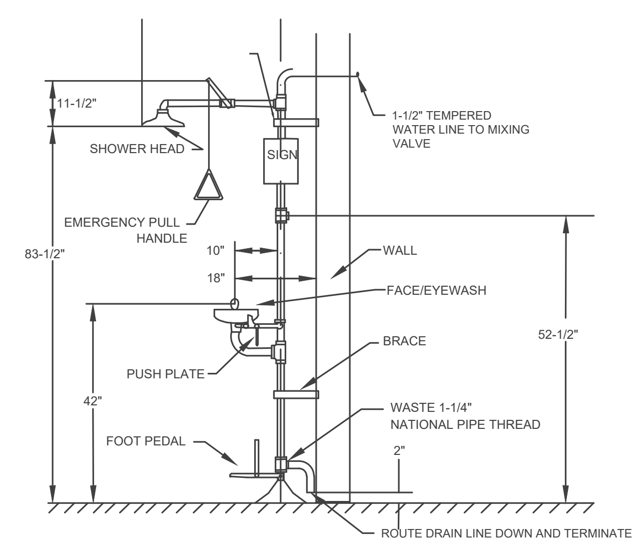
1. DRAIN VALVE WITH 3/4" THREADED HOSE CONNECTION
2. STRAINER
3. 2" AND SMALLER - BALL VALVE; 2-1/2" AND LARGER - BUTTERFLY VALVE.
4. PROVIDE UNION ON EACH SIDE OF PUMP IF PUMP BODY NOT FLANGED STYLE PIPE CONNECTIONS.
5. PROVIDE SPRING ISOLATORS FOR SUPPORTS.

PUMP CONTROL:

- PUMP TO START WHEN WATER TEMPERATURE IS 95°F AND STOP WHEN WATER TEMPERATURE IS 105°F

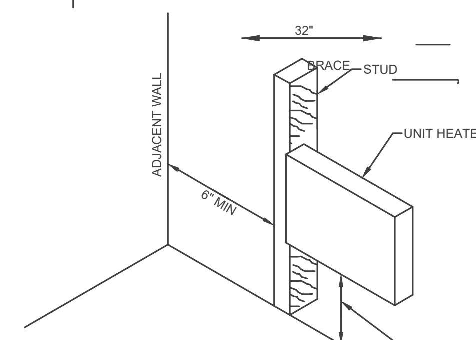
2 HOT WATER CIRCULATION PUMP DETAIL

SCALE: NOT TO SCALE



6 EMERGENCY SHOWER/EYE WASH DETAIL

SCALE: NOT TO SCALE



3 ELECTRIC WALL HEATER DETAIL

SCALE: NOT TO SCALE

2-20-24

KARTCHNER ENGINEERING

MECHANICAL AND PLUMBING SYSTEM DESIGN

NO.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

PROJECT: 4-21115

DESIGNED: JCJ

DRAWN: JCJ

CHECKED: JCJ

APPROVED: MAK

DATE: FEBRUARY 2023

GreatWest ENGINEERING

3050 N. LAKEHARBOR LANE SUITE 201 BOISE, ID 83703 (208)576-6646

BONNER COUNTY SOLID WASTE

COLBURN FACILITY IMPROVEMENTS

MECHANICAL & PLUMBING DETAILS

SHEET NO.

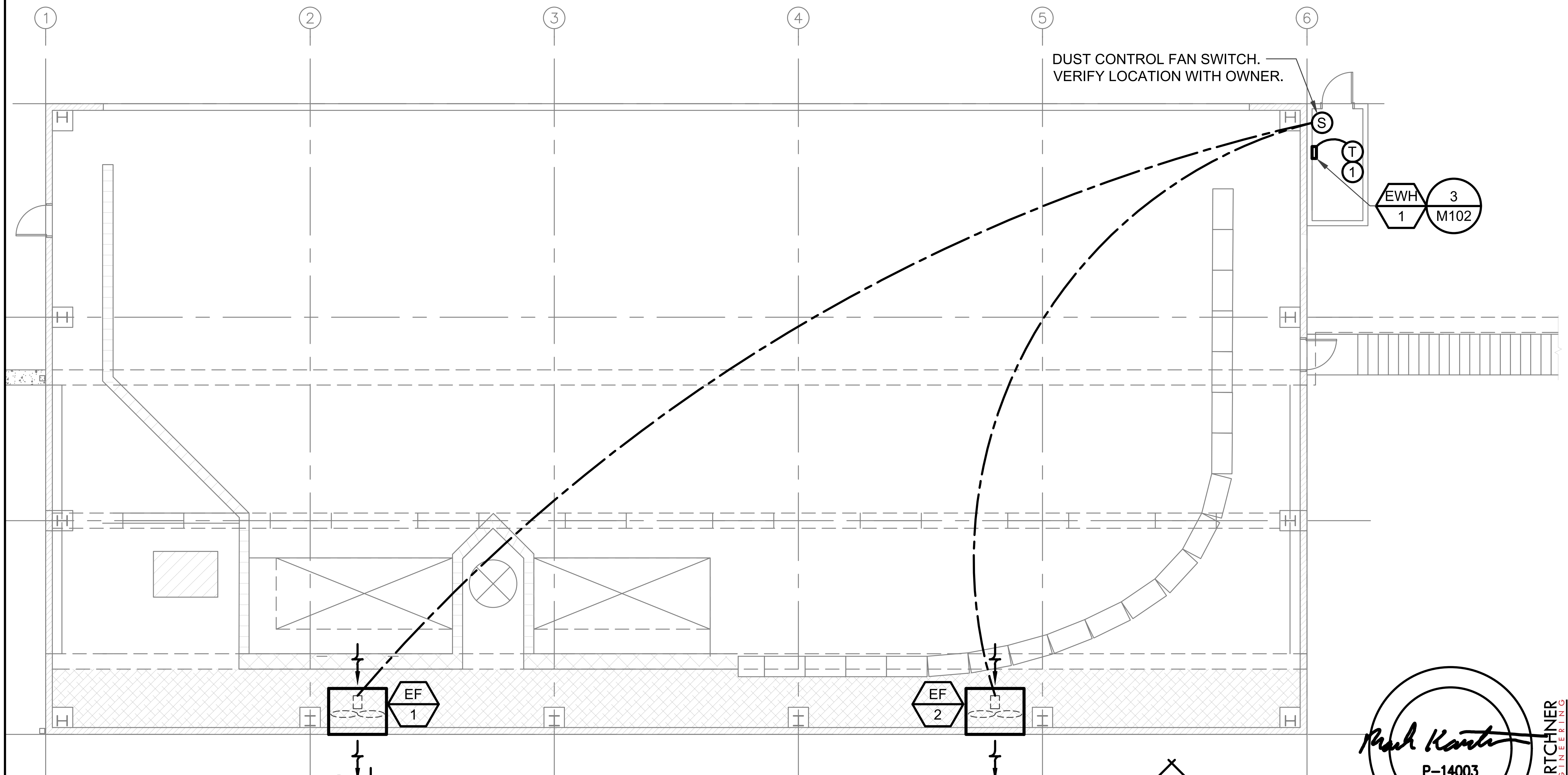
M102

KEYED NOTES

1. 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.

GENERAL NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC.
6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED.
7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION.



1 NEW WTB FLOOR PLAN - MECHANICAL

SCALE: 3/32" = 1'-0"

NORTH

P-14003

2-20-24

KARTCHNER ENGINEERING

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GreatWest ENGINEERING

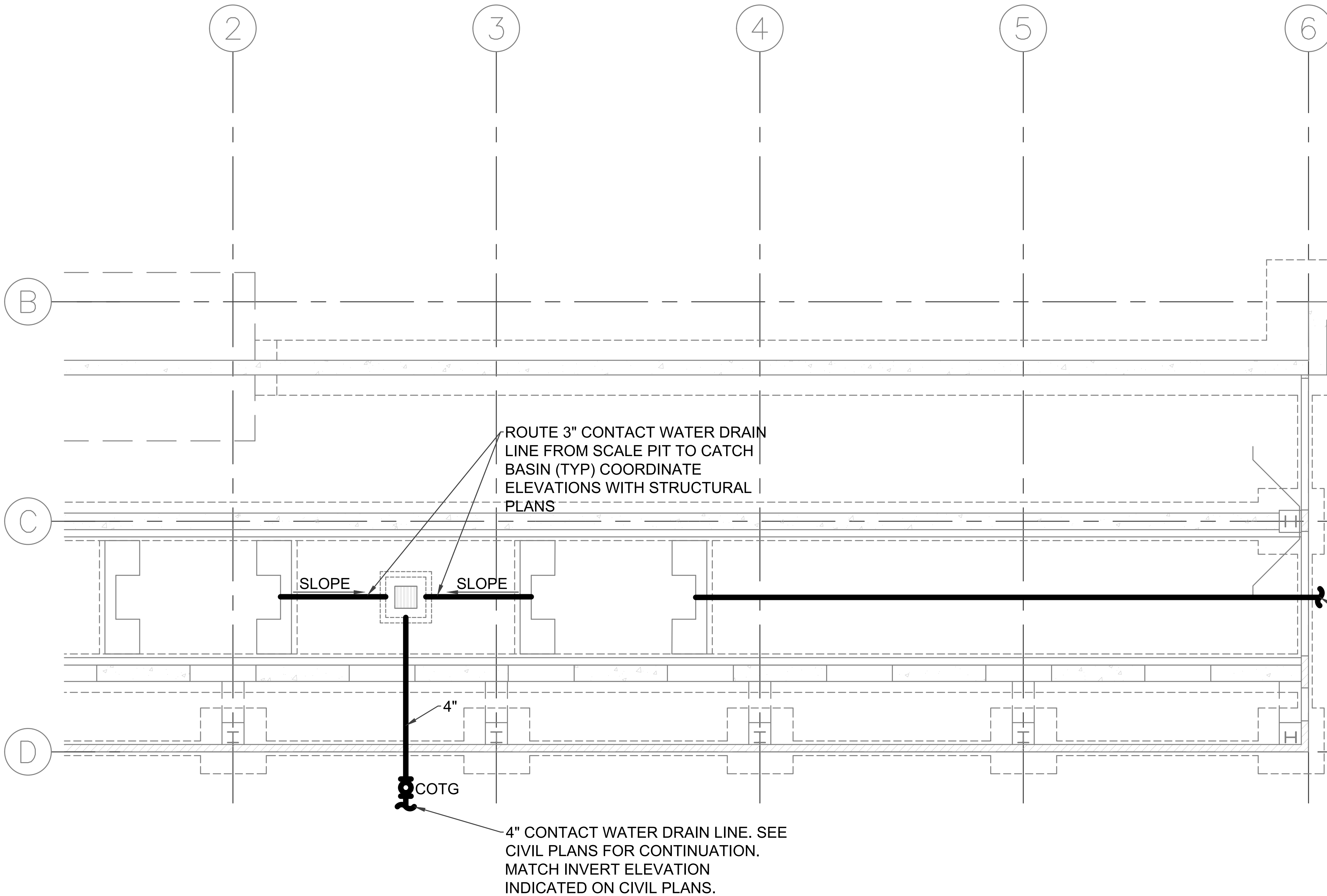
BONNER COUNTY SOLID WASTE

COLBURN FACILITY IMPROVEMENTS

NEW WTB FLOOR PLAN - MECHANICAL

SHEET NO.

M103



GENERAL NOTES

1. SLOPE ALL SEWERS @ 1/4" PER FOOT.
2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.

1 TUNNEL LEVEL FOUNDATION PLAN - PLUMBING

SCALE: 3/32" = 1'-0"

NORTH

P-14003

2-20-24

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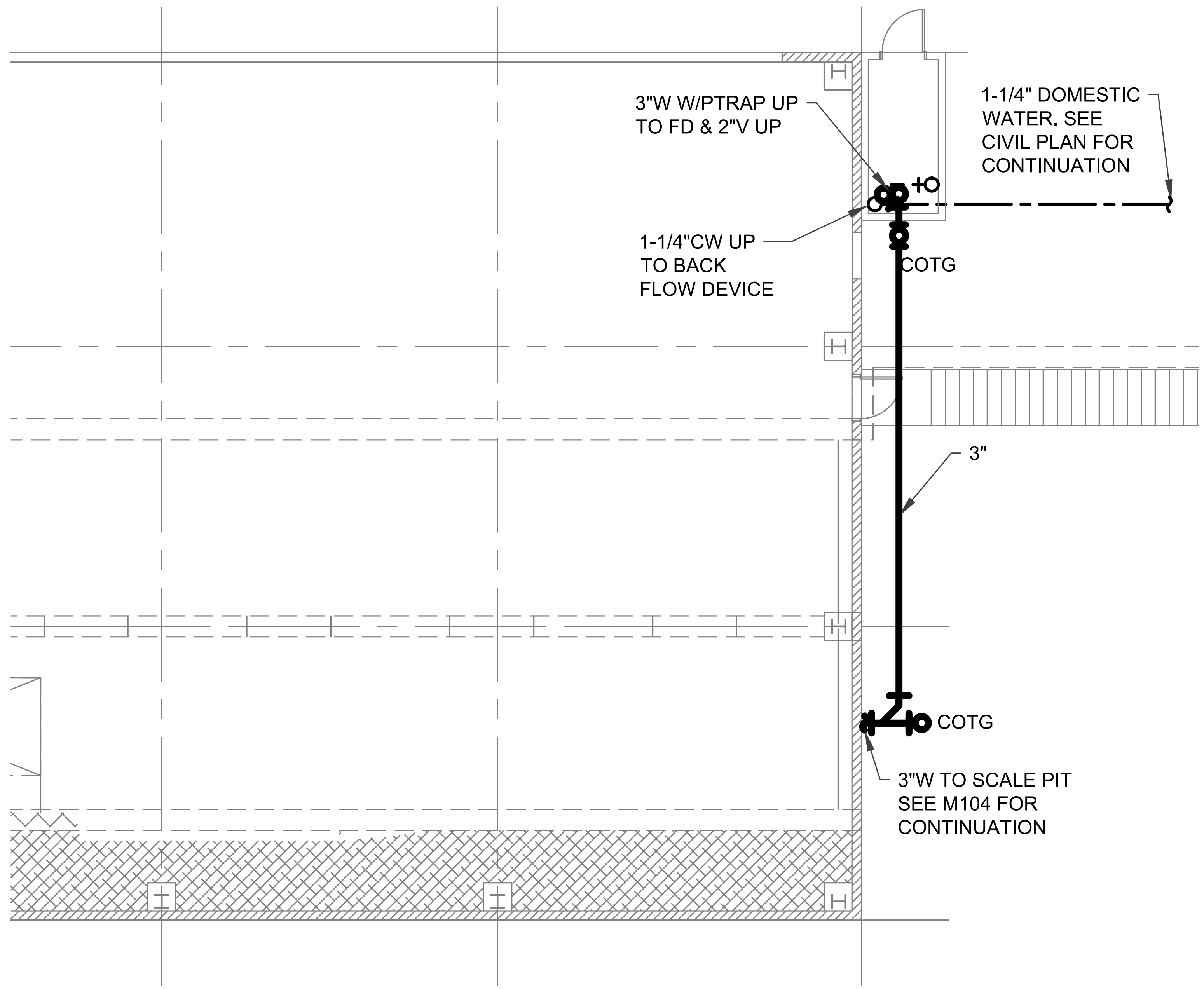
BONNER COUNTY SOLID WASTE

COLBURN FACILITY IMPROVEMENTS

NEW WTB TUNNEL LEVEL FOUNDATION PLAN PLUMBING

SHEET NO.

M104



1 NEW WTB FOUNDATION PLAN - PLUMBING

SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES

1. SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.
7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.
8. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS OF RATED ASSEMBLIES AS REQUIRED. SEAL PER IBC 714.4.3, IBC 715, & IMC 602.2.2. DETAILS FOR ALL ASSEMBLY MUST BE SUBMITTED FOR APPROVAL.

P-14003

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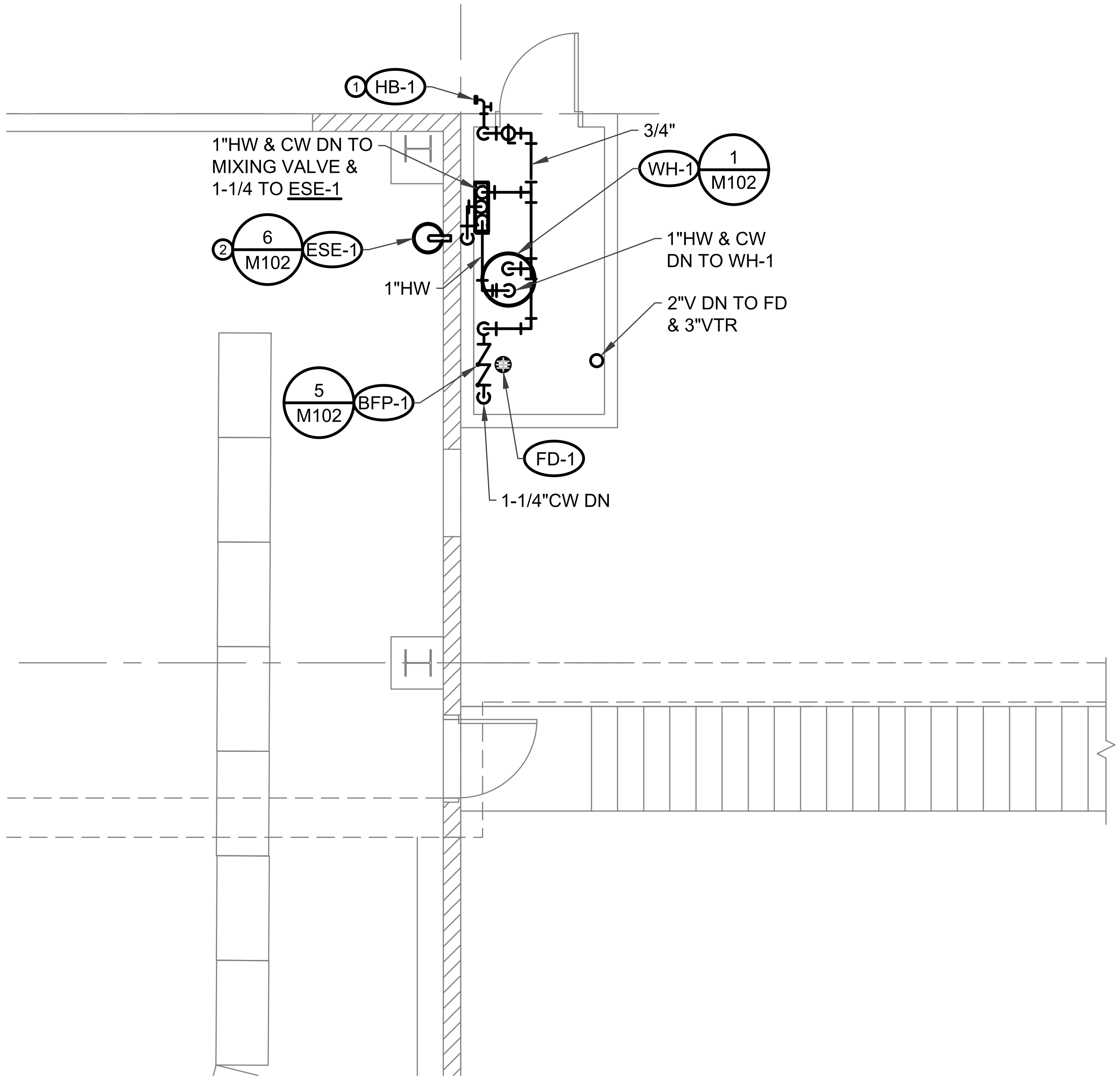
BONNER COUNTY SOLID WASTE

COLBURN FACILITY IMPROVEMENTS

NEW WTB FOUNDATION PLAN PLUMBING

SHEET NO.

M105



GENERAL NOTES

1. SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
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KEYED NOTES

1. 3/4"CW DN IN WALL TO HOSE BIBB.
2. 1"HW & CW TO MIXING VALVE & 1-1/4" TEMPERED WATER TO EMERGENCY SHOWER/EYE WASH.

1 NEW WTB BUILDING FLOOR PLAN - PLUMBING

SCALE: 3/16" = 1'-0"

NORTH

P-14003

2-20-24

KARTCHNER ENGINEERING

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PROJECT: 4-21115
DESIGNED: JCJ
DRAWN: JCJ
CHECKED: JCJ
APPROVED: MAK
DATE: FEBRUARY 2023

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

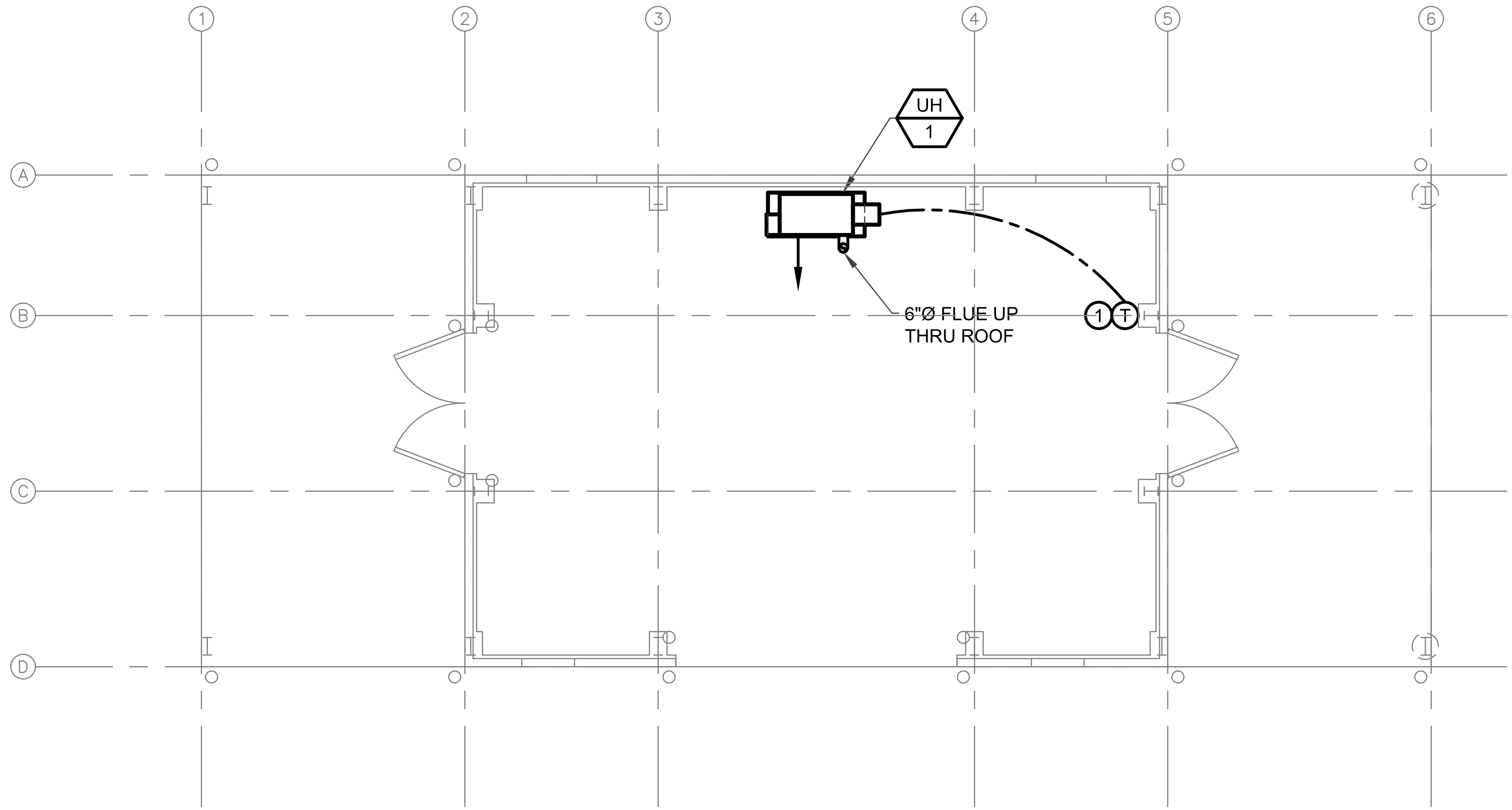
BONNER COUNTY SOLID WASTE

COLBURN FACILITY IMPROVEMENTS

NEW WTB BUILDING FLOOR PLAN - PLUMBING

SHEET NO.

M106



1 CFC REMOVAL BUILDING FLOOR PLAN - MECHANICAL

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

GENERAL NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC.
6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED.
7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION

KEYED NOTES

1 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.

NORTH

P-14003

2-20-24

KARTCHNER ENGINEERING

NO.	REVISION DESCRIPTION	BY	DATE

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BONNER COUNTY SOLID WASTE

COLBURN FACILITY IMPROVEMENTS

CFC REMOVAL BUILDING FLOOR PLAN - MECHANICAL

SHEET NO.

M107

SYMBOL	DESCRIPTION
	LED LUMINAIRE, WITH EMERGENCY BATTERY PACK
	LED LUMINAIRE
	LED LUMINAIRE
	LED LUMINAIRE, WITH EMERGENCY BATTERY PACK
	EMERGENCY WALL PACK
	LED LUMINAIRE, POLE MOUNTED
	LIGHTED EXIT SIGN, BACK OR END MOUNTED. SHADED AREA INDICATES FACE. ARROW INDICATES DIRECTIONAL ARROW.
	LED LUMINAIRE, WALL MOUNTED
	LED LUMINAIRE, WALL MOUNTED WITH EMERGENCY BATTERY PACK
	SPECIAL PURPOSE RECEPTACLE - AS NOTED
Y	DUPLEX RECEPTACLE Y=NOTATIONS FOR ALL RECEPTACLE TYPES: GFI = GROUND FAULT CIRCUIT INTERRUPTER (GFCI) HT = HEAT TRACE RECEPTACLE W = WEATHER PROOF COVER I = ISOLATED GROUND C = CEILING MOUNTED RECEPTACLE SW= SPLIT CIRCUITING +X"= INDICATES CENTERLINE MOUNTING HEIGHT ABOVE FINISHED FLOOR OR GRADE
	QUAD RECEPTACLE
	SURFACE POWER/DATA RACEWAY.
	DATA OUTLET
	COMBINATION DATA / TELEPHONE OUTLET
T	THERMOSTAT
H	HUMIDISTAT
C	CABLE TV CONNECTION POINT
	PANELBOARD
	TERMINAL
	TERMINAL IN MCP
	TERMINAL REMOTE DEVICE OR PANEL

SYMBOL	DESCRIPTION
	CONDUIT EXPOSED
	CONDUIT UNDER FLOOR OR UNDERGROUND
	TYPE-SOOW CABLE
EX	EXISTING CONDUIT ROUTED UNDERGROUND
P	UNDERGROUND PRIMARY POWER
	MC-HL CABLE WITH XP SEAL FITTINGS
	CONDUIT FLEXIBLE
	HEAT TAPE ON PIPING
	MANUFACTURERS CORD/CABLE
	CONDUIT TURNED UP OR TOWARD
	CONDUIT TURNED DOWN OR AWAY
	CONDUIT CAPPED
	CONDUIT SEALS. CLASS 1. DIV.1 EXPLOSION PROOF
L-7	CONDUIT HOME RUN 3/4"C, 2#12 & 1#12 GND. TO PANEL L, CKT. 7 UNLESS SHOWN OTHERWISE
P1	CONDUIT HOME RUN - SEE SCHEDULE
VLT HH1	VAULT/HANDHOLE WITH DESIGNATION
J	JUNCTION BOX
ST 30AT 125AF 3P LSIG	CKT. BKR, RATING/NO. OF POLES WITH THERMAL MAGNETIC CIRCUIT BREAKER TRIP AT = AMPERAGE TRIP AF = AMPERAGE FRAME P = POLE LSIG = LONG, SHORT, INSTANTANEOUS GROUND ST = SHUNT TRIP
	TRANSFER SWITCH
	POWER CAPACITOR
FVNR 1	FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 1 FVR = FULL VOLTAGE REVERSING
VFC	VARIABLE FREQUENCY CONTROLLER
SSS IC BP	SOLID STATE STARTER, REDUCED VOLTAGE WITH ISOLATION & BYPASS CONTACTORS IC = ISOLATION CONTACTOR BP = BYPASS CONTACTOR
	FUSE
AM	AMMETER (WHM-WATT HOUR METER)
VM	VOLTMETER
AM AS	METER & SWITCH: A = AMP, V = VOLT
CR	CONTROL RELAY
RTM ETM	RUN TIME METER/ELAPSED TIME METER
PE	PHOTO ELECTRIC CELL
	PANEL HEATER WITH FAN AND THERMOSTAT
	CONDUCTORS NOT CONNECTED
	CONDUCTORS CONNECTED
	PULL OUT SWITCH/PLUG-RECEPTACLE CONNECTION
	NORMALLY OPEN CONTACT. (WHEN DE-ENERGIZED)
	NORMALLY CLOSED CONTACT. (WHEN DE-ENERGIZED)
	THERMAL OVERLOAD RELAY
SS OL	SOLID STATE OVERLOAD
M	EXHAUST FAN
	GRAVITY LOUVER
K	KURT KEY INTERLOCK

SYMBOL SCHEMATIC	SYMBOL PLAN	DESCRIPTION
		GROUND ROD IN GROUND ROD BOX
	T	TRANSFORMER, PLAN VIEW SHOWN TO SCALE
3	CT	CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S. PLAN VIEW SHOWN TO SCALE
10	M	MOTOR, NUMBER INDICATES HORSEPOWER
	OT	OVERTEMPERATURE CUTOUT
CP H	XXXX	LOCAL EQUIPMENT CONTROL PANEL - MCP, LCP, FACP
SV	SV	SOLENOID VALVE
SS	M	MAGNETIC MOTOR STARTER (SS-SOLID STATE)
	M	MAGNETIC MOTOR STARTER W/ DISCONNECT
MS 2	MS	FULL VOLTAGE STARTER/NEMA SIZE MS = MOTOR STARTER CONTACT BP = BYPASS CONTACTOR IC = ISOLATION CONTACTOR
	HS	MAINTAINED ON/OFF SWITCH
	60A	DISCONNECT SWITCH, NON FUSED (60A) INDICATES AMPERAGE RATING
100AF 200AS	F 200/100	DISCONNECT SWITCH, FUSED 200 = SWITCH RATING, 100 = FUSE RATING
		TIME DELAYED CONTACTS (TIME DELAY TO OPEN) (TIME DELAY TO CLOSE)
R	R	INDICATING LIGHT: A = AMBER G = GREEN W = WHITE B = BLUE R = RED
A	R	PUSH TO TEST INDICATING LIGHT TRANSFORMER TYPE LIGHTED PUSHBUTTON
OFF HAND AUTO XO OX	HOA	SELECTOR SWITCH: HOR = HAND/OFF/REMOTE AS = AMP SWITCH HOA = HAND/OFF/AUTO VS = VOLT SWITCH ROL = RMOTE/OFF/LOCAL RO = RUN/OFF
	EV	EV=ELECTRICAL VAULT, PV=POWER VAULT SV=SIGNAL VAULT
	HS	HAND SWITCH
	PB	PUSHBUTTON SWITCH. MOMENTARY ON
	ESS	EMERGENCY STOP SWITCH (PUSH/PULL)
	PS	PRESSURE SWITCH. NORMALLY CLOSED
	FS	FLOW SWITCH. NORMALLY CLOSED
	ZS	LIMIT SWITCH, NORMALLY OPEN
	LS	LEVEL SWITCH, CLOSES ON RISING LEVEL
	TS TC T	TS-TEMP. SWITCH, (SEE DWG. FOR OPERATION) TC-THERMOCOUPLE, T-THERMOSTAT
		POTENTIOMETER
LT	LT	LEVEL (T=TRANSMITTER, E=ELEMENT, S=SWITCH)
PT	PT	PRESSURE TRANSMITTER
SI	SI	SPEED INDICATOR
FT	FT	FLOW TRANSMITTER
	DS	DOOR SECURITY SWITCH
	WS	TORQUE SWITCH
VS	VS	VIBRATION SENSOR
	CS	CONTROL STATION, SINGLE OR MULTIPLE SWITCHES
	MS	MOISTURE SENSOR
	HTR	HEATER
	RTD	RESISTANCE TEMPERATURE DEVICE
		UNIT HEATER

ABBREVIATIONS

A,AMP - AMPERE
AL - ALARM
AC - AIR COMPRESSOR
AF - AMPERE FRAME
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
AFS - AMPERE FUSE
AI - ANALOG INPUT POINT (PLC)
AIC - AMPS INTERRUPTING CAPACITY
AIL - AMBER INDICATING LIGHT
ALT - ALTERNATOR
AO - ANALOG OUTPUT POINT (PLC)
AS - AMPERE SWITCH
AT - AMPERE TRIP
ATS - AUTOMATIC TRANSFER SWITCH
BC - BATTERY CHARGER
BH - BLOCK HEATER
BIL - BLUE INDICATING LIGHT
BP - BYPASS CONTACTOR
C - CONDUIT (GRS)
CB - CIRCUIT BREAKER
CGD - COMBUSTIBLE GAS DETECTOR
CP - CONTROL PANEL
CPT - CONTROL POWER XFMR
CT - CURRENT TRANSFORMER
CTL - CONTROL
CV - CHECK VALVE
DB - DIRECT BURIED
DE - DOUBLE END
D.E. - DEAD END
DEM - DEMAND
DF - DEMAND FACTOR
DI - AC DIGITAL INPUT POINT (PLC)
DO - AC DIGITAL OUTPUT POINT (PLC)
EF - EXHAUST FAN
ESD - EMERGENCY SHUTDOWN
ESS - EMERGENCY STOP SWITCH
EXIST - EXISTING
GFI - GROUND FAULT INTERRUPT
GND - GROUND
GIL - GREEN INDICATING LIGHT
GRS - GALVANIZED RIGID STEEL
H - HOT, HIGH
HH - HAND HOLE
HMI - HUMAN MACHINE INTERFACE
HOA - HAND-OFF-AUTO
HS - HAND SWITCH
HTR - HEATER
I - INTRUSION SWITCH
IC - ISOLATION CONTACTOR
ISR - INTRINSICALLY SAFE RELAY
KS - KEY SWITCH
kVARH - KILOVAR HOUR
kWH - KILOWATT HOUR
L - LOW
LCP - LOCAL CONTROL PANEL
LS - LIMIT SWITCH
N - NEUTRAL
MCC - MOTOR CONTROL CENTER
MCP - MAIN CONTROL PANEL
MESR - MASTER EMERGENCY STOP RELAY
MFGR - MANUFACTURER
MOV - MOTOR OPERATED VALVE
MTR - MOTOR
OFE - OWNER FURNISHED EQUIPMENT
OIT - OPERATOR INTERFACE TERMINAL
ORD - OXIDATION REDUCTION POTENTIAL
P - PILOT LIGHT
PBL - PUSH BUTTON - LIGHTED
PB - PUSH BUTTON
PFR - PHASE FAILURE RELAY
PS - PRESSURE SWITCH
PT - POTENTIAL TRANSFORMER
PTZ - PAN, TILT, ZOOM
PVC - POLY VINYL CHLORIDE (CONDUIT)
PWR - POWER
RHP - RADIANT HEAT PANEL
RIL - RED INDICATING LIGHT
RR - REMOTE RACK
RTM - RUN TIME METER
SA - SURGE ARRESTOR
SIG - SIGNAL
SPC - SHIELDED POWER CABLE
SSOL - SOLID STATE OVERLOAD RELAY
SS - SOLID STATE OR STAINLESS STEEL
SV - SOLENOID VALVE
STP - SHIELDED TWISTED PAIR
STT - SHIELDED TWISTED THREE CONDUCTOR (TRIAD)
T - THERMOSTAT
TC - THERMOCOUPLE
TDOE - TIME DELAY ON ENERGIZATION
TDOD - TIME DELAY ON DE-ENERGIZATION
TR - TRIP RELAY
TNI - TELEPHONE NETWORK INTERFACE
TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSOR
UH - UNIT HEATER
UTP - UNSHIELDED TWISTED PAIR
VFD - VARIABLE FREQUENCY DRIVE
WIL - WHITE INDICATING LIGHT
WP - WEATHER PROOF
WS - TORQUE SWITCH PROOF
XFMR - TRANSFORMER
XP - EXPLOSION PROOF

REFERENCE SYMBOLS

PV-1 N — VAULT CALLOUT: N-NEW, E-EXISTING, F-FUTURE, R-REPLACE

P-355 N — EQUIPMENT CALLOUT: N-NEW, E-EXISTING, F-FUTURE, R-REPLACE

AA — DUCT BANK CALLOUT

DETAIL/SECTION 2 XX — SCALE; DETAIL NUMBER OR SECTION LETTER; SHEET WHERE DETAIL IS TAKEN FROM

A XX — SECTION LETTER; SHEET ON WHICH SECTION APPEARS

2 XX — FIGURE OR PHOTO DETAIL NUMBER; SHEET WHERE DETAIL IS TAKEN FROM; IF PHOTO, ARROW DENOTES DIRECTION TAKEN

2 XX — DETAIL NUMBER; DETAIL AREA; SHEET ON WHICH DETAIL APPEARS

CONDUIT IDENTIFICATION

F-1	POWER FEEDER CONDUIT & WIRE TAG, SEE SCHEDULE
P-1	POWER & CONTROL CONDUIT & WIRE TAG, SEE SCHEDULE
C-1	CONTROL CONDUIT & WIRE TAG SEE SCHEDULE
S-1	SIGNAL CONDUIT & WIRE TAG, SEE SCHEDULE
T-1	TELEPHONE CONDUIT & WIRE TAG
G-1	GROUND ELECTRODE SYSTEM
R-1	SPARE CONDUIT
XXXA	LETTER INDICATES CONTINUATION OF CONDUIT XXX. THE LETTER "N" SIGNIFIES MULTIPLE CONDUIT CONTINUATIONS.
N1	SHEET KEYED NOTE
XXXX	WIRING DIAGRAM DETAIL LOCATION
X	ADDENDUM NUMBER

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
$^X	WALL MOUNTED TOGGLE SWITCH, SINGLE POLE, SINGLE THROW, MOUNTED AT 48" TO TOP OF PLATE UNLESS OTHERWISE NOTED X= NOTATIONS FOR SWITCHES: 2 = DOUBLE POLE 3 = 3-WAY 4 = 4-WAY D = DIMMER K = KEY OPERATED P = SWITCH WITH PILOT LIGHT WP = WEATHER PROOF COVER M = MOTION SENSOR SW = SPLIT CIRCUITING +X" = INDICATES MOUNTING HEIGHT TO TOP OF PLATE, ABOVE FINISHED FLOOR OR GRADE
$a $b	INDICATES SWITCHES a & b MOUNTED IN SEPARATE BOXES WITH SEPARATE COVER PLATES.
$a, b, c	INDICATES MULTIPLE SWITCHES IN GANGED BOX WITH COMMON COVERPLATE. "a,b,c" INDICATES NUMBER OF INDIVIDUAL SWITCHES AND FIXTURES CONTROLLED.

GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE SOME ABBREVIATIONS OR SYMBOLS THAT APPEAR ON THIS SHEET MAY NOT BE USED ON THIS PROJECT.
2. THE ELECTRICAL PLAN DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE LOCATION OF EQUIPMENT IS APPROXIMATE UNLESS DIMENSIONED. EXACT LOCATIONS AND ROUTING OF CONDUITS AND WIREWAYS SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND PHYSICAL INTERFERENCES AND BY LOCATIONS OF ELECTRICAL TERMINATIONS ON EQUIPMENT.
3. NOT ALL CONDUIT MAY BE SHOWN OR CALLED OUT FOR CLARITY. SEE CONDUIT AND WIRE SCHEDULE FOR ADDITIONAL CONDUIT.
4. IN ADDITION TO THE 120VAC RECEPTACLES INDICATED ON THE PLANS, CONTRACTOR SHALL AS PART OF THE BASE BID PROVIDE UP TO 12 WEATHERPROOF, GFI RECEPTACLES INCLUDING 100 FEET OF 3/4" GRC, (3) 12 AWG CONDUCTORS, AND A 20A CIRCUIT BREAKER EACH. THE LOCATION OF THE ADDITIONAL RECEPTACLES SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
5. IN ADDITION TO THE DATA OUTLETS INDICATED ON THE PLANS, CONTRACTOR SHALL AS PART OF THE BASE BID PROVIDE UP TO 6, FOUR PORT RJ-45 OUTLETS INCLUDING 100 FEED OF 1" CONDUIT, AND FOUR CAT 5e CABLES EACH WITH PUNCHDOWN CONNECTIONS. THE LOCATION OF THE ADDITIONAL OUTLETS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

SYMBOL	SECURITY
	CLOSED CIRCUIT TELEVISION CAMERA
PTZ	PAN-TILT-ZOOM CAMERA
K	KEY PAD
C	CARD READER
SCP	SECURITY CONTROL PANEL

SYMBOL	FIRE PROTECTION
F	FIRE ALARM PULL STATION
H	FIRE ALARM HORN
F	FLOW SWITCH
T	TAMPER SWITCH
B	BELL

SYMBOL	FIRE PROTECTION
FACP	FIRE ALARM CONTROL PANEL
CGD	COMBUSTIBLE GAS DETECTOR
	SMOKE DETECTOR, CEILING MOUNTED
R	ADDRESSABLE FIRE ALARM SYSTEM RELAY
	HEAT DETECTOR
HS XX CD XX dBA C	FIRE ALARM HORN STROBE, WALL MOUNTED C = CEILING MOUNTED WP = WEATHERPROOF
S XX CD	FIRE ALARM STROBE

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NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: M21126
DESIGNED: SRJ
DRAWN: TLS
CHECKED: SRJ
APPROVED: RJW
DATE: FEBRUARY 24, 2023

PROFESSIONAL ENGINEER LICENSED 18028 STATE OF IDAHO SCOTT R. JACOBSON 02/24/23

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ELECTRICAL LEGEND

SHEET NO.
E100

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4.1 ELECTRICAL DEMOLITION PLAN

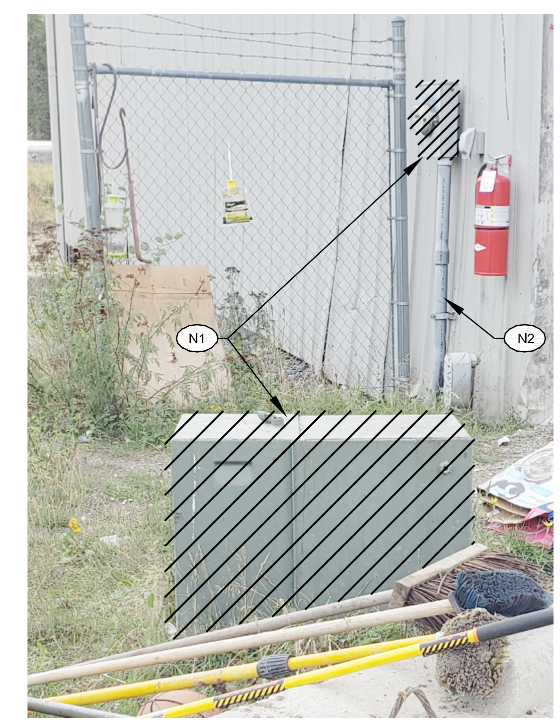
SCALE: 1"=100'

NOTES: (for this sheet)

- N1 EXISTING HHW FACILITY AND OVERHEAD POWER TO BE DEMOLISHED. REMOVE ALL ELECTRICAL EQUIPMENT.
- N2 EXISTING TRANSFORMER WHICH FEEDS EXISTING WTB TO BE REMOVED.
- N3 EXISTING POWER POLES TO BE DEMOLISHED.
- N4 EXISTING POLE WITH TWO FLOOD LIGHTS TO BE REMOVED.
- N5 EXISTING WASTE TRANSFER BUILDING.
- N6 EXISTING ATTENDANT SHACK TO BE DEMOLISHED. REMOVE ALL ELECTRICAL EQUIPMENT.
- N7 EXISTING COUNTY MAINTENANCE SHOPS.
- N8 EXISTING CAMERA AND ANTENNA. RETURN TO OWNER.
- N9 EXISTING SHED.

GENERAL NOTE:

1. REFER TO CIVIL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.



NOTES: (for this detail)

- N1 DEMOLISH UTILITY TRANSFORMER AND METER.
- N2 REUSE EXISTING CONDUIT TO FEED EXISTING POWER PANEL INSIDE BUILDING FROM NEW WTB.

4.4 COLBURN DEMOLITION PHOTO DETAIL

NOT TO SCALE

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ELECTRICAL DEMOLITION PLAN

SHEET NO.

E101

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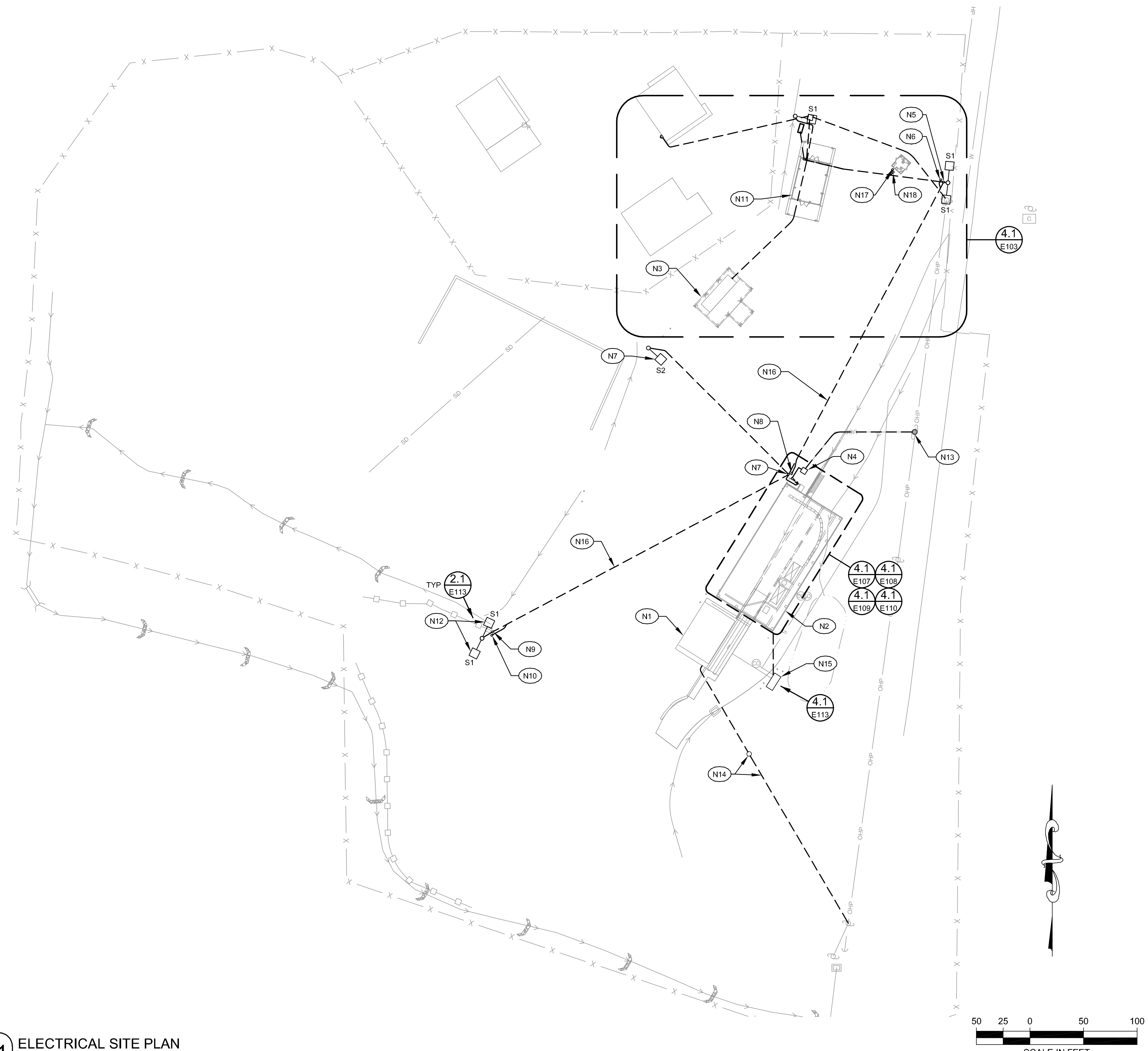

4.1 ELECTRICAL SITE PLAN

SCALE: 1"=100'

NOTES: (for this sheet)

- N1 RECONDITIONED EXISTING TRANSFER BUILDING.
- N2 NEW WASTE TRANSFER BUILDING.
- N3 NEW HHW FACILITY.
- N4 NEW UTILITY PAD MOUNT TRANSFORMER LOCATION.
- N5 NEW 17" X 21" ELECTRICAL VAULT "EV-P100".
- N6 NEW 17" X 21" ELECTRICAL VAULT "EV-S100" FOR FUTURE SURVEILLANCE.
- N7 NEW 17" X 21" ELECTRICAL VAULT "EV-P101".
- N8 NEW 17" X 21" ELECTRICAL VAULT "EV-S101" FOR FUTURE SURVEILLANCE.
- N9 NEW 17" X 21" ELECTRICAL VAULT "EV-P102".
- N10 NEW 17" X 21" ELECTRICAL VAULT "EV-S102" FOR FUTURE SURVEILLANCE.
- N11 NEW CFC REMOVAL BUILDING.
- N12 NEW LIGHT POLE AND FIXTURE "S1", PROVIDED AND INSTALLED BY CONTRACTOR.
- N13 NEW UTILITY POWER POLES.
- N14 TEMPORARY POLE AND OVERHEAD POWER LINE. COORDINATE WITH UTILITY TO PROVIDE TEMPORARY POWER TO EXISTING WTB DURING CONSTRUCTION.
- N15 CONTACT WATER TANK WITH HIGH LEVEL FLOAT ALARM, WIRED TO PANEL ON SHEET "E106".
- N16 INSTALL AN ADDITIONAL 2" SPARE CONDUIT FOR FUTURE VIDEO SURVEILLANCE. TERMINATE IN PULL BOXES AT LIGHT POLES.
- N17 NEW 17" X 21" ELECTRICAL VAULT "EV-P103" FOR FUTURE USED.
- N18 NEW 17" X 21" ELECTRICAL VAULT "EV-S103" FOR FUTURE USE.

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BONNER COUNTY SOLID WASTE
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ELECTRICAL SITE PLAN

SHEET NO.

E102

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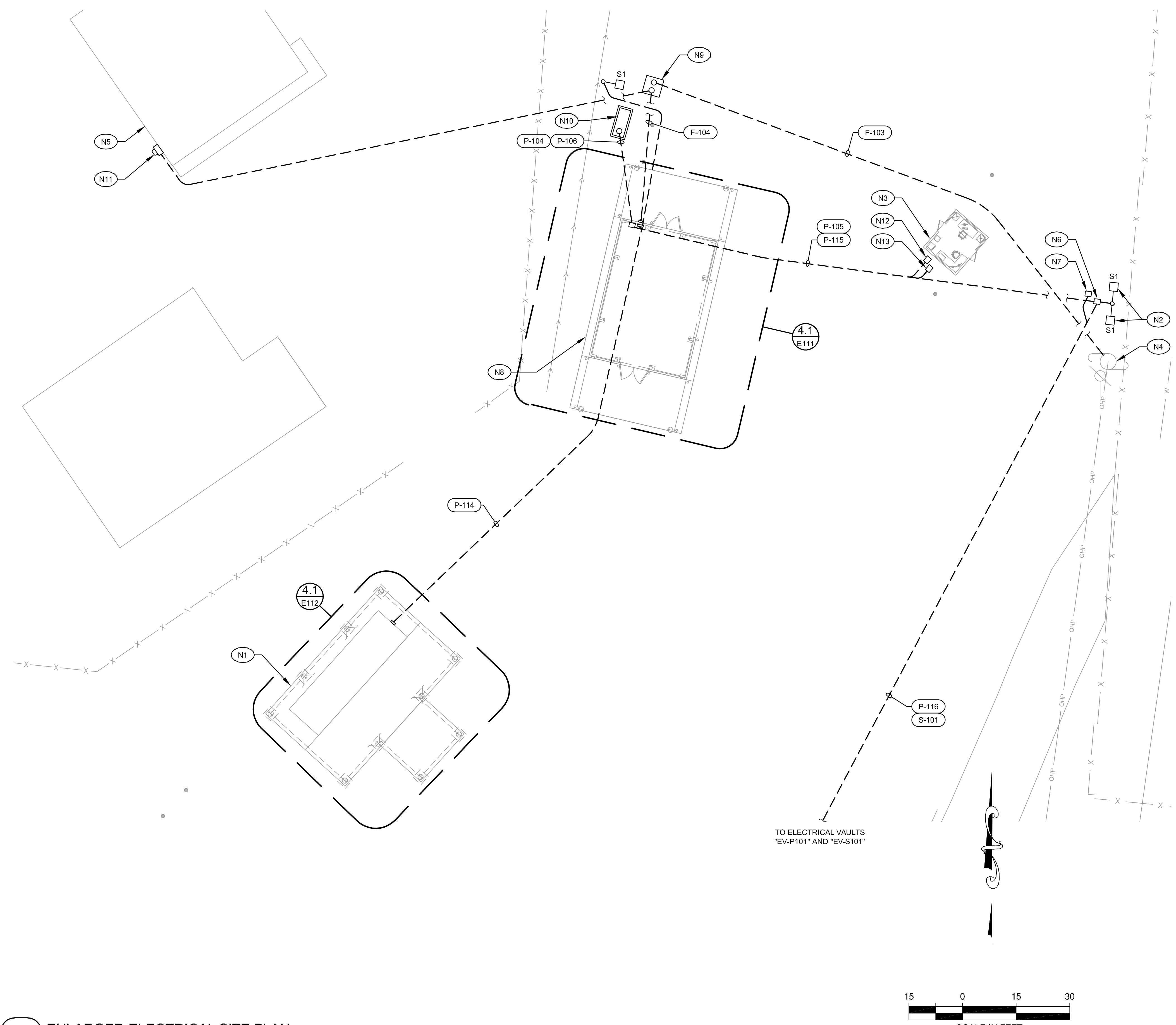

4.1 ENLARGED ELECTRICAL SITE PLAN

SCALE: 1'=30'

NOTES: (for this sheet)

- N1 NEW HHW FACILITY.
- N2 NEW LIGHT POLE AND FIXTURE "S1" PROVIDED AND INSTALLED BY CONTRACTOR.
- N3 FUTURE ATTENDANT SHACK.
- N4 EXISTING POWER POLE AND POLE MOUNTED TRANSFORMER.
- N5 EXISTING COUNTY MAINTENANCE SHOP.
- N6 NEW 17" X 21" ELECTRICAL VAULT "EV-P100".
- N7 NEW 17" X 21" ELECTRICAL VAULT "EV-S100" FOR FUTURE SURVEILLANCE.
- N8 NEW CFC REMOVAL BUILDING.
- N9 NEW UTILITY TRANSFORMER.
- N10 NEW DIESEL GENERATOR. COORDINATE LOCATION WITH CIVIL.
- N11 UTILITY METER FOR MODIFIED ELECTRICAL SERVICE TO COUNTY BUILDINGS AFTER REMOVING OVERHEAD POWER FEED. COORDINATE NEW WORK WITH COUNTY.
- N12 NEW 17" X 21" ELECTRICAL VAULT "EV-P103" FOR FUTURE USE.
- N13 NEW 17" X 21" ELECTRICAL VAULT "EV-S103" FOR FUTURE USE.

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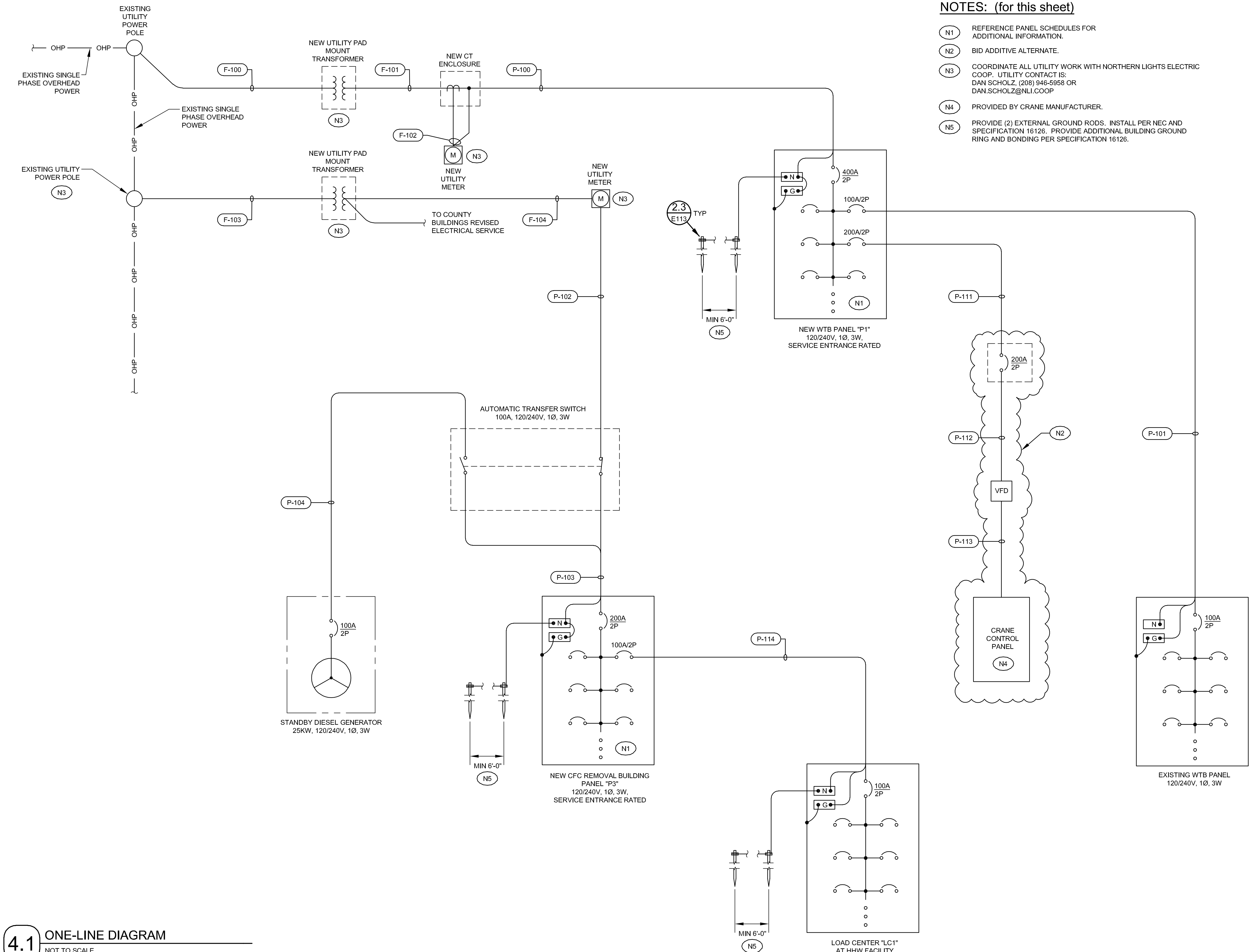
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ENLARGED ELECTRICAL SITE PLAN

SHEET NO.

E103

NOTES: (for this sheet)

- N1 REFERENCE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- N2 BID ADDITIVE ALTERNATE.
- N3 COORDINATE ALL UTILITY WORK WITH NORTHERN LIGHTS ELECTRIC COOP. UTILITY CONTACT IS: DAN SCHOLZ, (208) 946-5958 OR DAN.SCHOLZ@NLI.COOP
- N4 PROVIDED BY CRANE MANUFACTURER.
- N5 PROVIDE (2) EXTERNAL GROUND RODS. INSTALL PER NEC AND SPECIFICATION 16126. PROVIDE ADDITIONAL BUILDING GROUND RING AND BONDING PER SPECIFICATION 16126.



4.1 ONE-LINE DIAGRAM
NOT TO SCALE

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DATE: FEBRUARY 24, 2023

PROFESSIONAL ENGINEER LICENSED 18028 STATE OF IDAHO SCOTT R. JACOBSON 02/24/23

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ONE-LINE DIAGRAM

SHEET NO.
E104

	Panel: P3 - NEW CFC REMOVAL		Mains: 200A			Voltage: 120/240 VAC, 1ø, 3w			
	Mounting: SURFACE	Poles: 30	Type: BOLT-ON			Min. A.I.C.: 22,000			
	Use and/or Area Served	C/B	Cir. No.	Load ØA	Load ØB	Cir. No.	C/B	Use and/or Area Served	
L	LIGHTS	20	1	1000 360		2	20	RECEPTACLES	R
R	RECEPTACLES	20	3		360 540	4	20	RECEPTACLES	R
R	RECEPTACLES	20	5	540 360		6	20	RECEPTACLES	R
	GENERATOR UTILITIES	30	7		2000 500	8	20	FIRE ALARM CP	C
	GENERATOR UTILITIES	2	9	2000 300		10	20	UNIT HEATER UH-1	
	SPARE	20	11			12	20	SPARE	
	SPARE	20	13			14	20	SPARE	
	SPARE	20	15			16	20	SPARE	
	SPARE	20	17			18	20	SPARE	
	SPARE	20	19			20	20	SPARE	
	SPARE	20	21			22	20	SPARE	
	SPARE	20	23			24	100	FEED TO HHW LOAD CENTER "LC1"	
	SPARE	20	25			26	2	FEED TO HHW LOAD CENTER "LC1"	
	PANEL SPD	30	27			28	100	FEED TO ATTENDANT SHACK (FUTURE)	
	PANEL SPD	2	29			30	2	FEED TO ATTENDANT SHACK (FUTURE)	
	Total Connected Load (VA):			4560	3400	NOTE 1.)		PROVIDE INTEGRAL PANEL SPD PROTECTION.	
	+ 25% of Continuous Load:			250	125				
	Total Code Load (VA):			**4810**	**3525**				
	Total Code Load (Amps):			**41**	**30**				

	Panel: P1 - NEW WTB		Mains: 400A			Voltage: 120/240 VAC, 1ø, 3w			
	Mounting: SURFACE	Poles: 42	Type: BOLT-ON			Min. A.I.C.: 22,000			
	Use and/or Area Served	C/B	Cir. No.	Load ØA	Load ØB	Cir. No.	C/B	Use and/or Area Served	
R	RECEPTACLES WASTE TRANSFER	20	1	1260 1900		2	20	LIGHTS TIPPING LEVEL	L
C	FIRE ALARM CONTROL PANEL	20	3		500 300	4	20	LIGHTS & RECEP MECH/ELEC ROOM	L
	WALL HEATER EWH-1	20	5	552 400		6	20	LIGHTS TUNNEL WALKWAY	L
	WATER HEATER WH-1	70	7		6120 1000	8	20	LIGHTS TRUCK TUNNEL	L
	WATER HEATER WH-1	2	9	6120 1000		10	20	LIGHTS TRUCK TUNNEL	L
M	PLUMBING PUMP CP-1	20	11		28 360	12	20	TUNNEL RECEPTACLES	R
L	LIGHTS EXTERIOR	20	13	360 1865		14	40	EXHAUST FAN EF-1	M
	SPARE	20	15		1865	16	2	EXHAUST FAN EF-1	M
	SPARE	20	17	1865		18	40	EXHAUST FAN EF-2	M
	SPARE	20	19		1865	20	2	EXHAUST FAN EF-2	M
	SPARE	20	21	300		22	20	CONTACT WATER TANK ALARM PANEL	
	SPARE	20	23			24	20	SPARE	
	SPARE	20	25			26	20	SPARE	
	SPARE	20	27			28	20	SPARE	
	SPARE	20	29			30	20	SPARE	
	SPARE	20	31			32	20	SPARE	
	SPARE	20	33			34	20	SPARE	
	SPARE	20	35		15600	36	200	CRANE VFD (ADD ALTERNATE)	
	SPARE	20	37	15600		38	2	CRANE VFD (ADD ALTERNATE)	
	PANEL SPD	30	39		1500	40	100	FEED TO EXISTING WTB PANEL	C
	PANEL SPD	2	41	1500		42	2	FEED TO EXISTING WTB PANEL	C
	Total Connected Load (VA):			32722	29138	NOTE 1.)		PROVIDE INTEGRAL PANEL SPD PROTECTION.	
	+ 25% of Continuous Load:			1290	825				
	+ 25% of Largest Motor:			467	467				
	Total Code Load (VA):			**34479**	**30430**				
	Total Code Load (Amps):			**288**	**254**				

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	VOLTS	LAMP QTY	WATTS / FIXTURE	MOUNTING	MANUFACTURE NUMBER BASIS OF DESIGN	OR EQUAL BY	NOTES
F1/F1E	4' LONG VAPOR TIGHT HIGH BAY, FOR WASTE TRANSFER BUILDING	120	LED 23000 LUMENS	159	CEILING	ILP: BL4-24L-U-40-PFL-EMH2 (WHERE INDICATED)	OR EQUAL	
F2/F2E	4' LONG VAPOR TIGHT ENCLOSED & GASKETED	120	LED 4500 LUMENS	32	SURFACE CEILING	ILP: VVT4-4L-U-40-FR-EM10 (WHERE INDICATED)	OR EQUAL	
F4/F4E	4' LONG CORNER MOUNT FOR TRUCK TUNNEL, STAINLESS STEEL HARDWARE	120	LED 3400 LUMENS	33	SURFACE CORNER	FAIL-SAFE: FCC-X-4-LD4-2STD-40-UNV-81/86-EDC1-WL-EL10W (WHERE INDICATED)	OR EQUAL	
F5	2'X4' FLAT PANEL, 4000K	120	LED 4620 LUMENS	40	CEILING	METALUX: 24FPSL2SCT3 MEDIUM	OR EQUAL	
M1/M1E	LED WALL PACK	120	LED 1884 LUMENS	27	WALL	LUMARK: LDWP-FC-3B-120V-F1-PE120V-EMLED-CD(WHERE INDICATED)	OR EQUAL	
M2/M2E	CANOPY	120	LED 9482 LUMENS	77	CANOPY SURFACE	ILP: UFO-75WLED-UNIV-50-PC120-FUSE/S120-ILBCP05 (WHERE INDICATED)	OR EQUAL	
M3	OPEN FACE WALL PACK	120	LED 7100 LUMENS	60	WALL	LUMARK: WPMLED15S, 4000K, PHOTOCELL	OR EQUAL	
X1	EXIT SIGN, NO POWER				CEILING	EMERGI-LITE WSLX2061R-PC-N	OR EQUAL	
S1	SINGLE OR DUAL HEAD RECTILINEAR LED LUMINAIRE WITH DIE CAST ALUMINUM HOUSING AND PHOTOCELL ON 30FT. ROUND STEEL POLE WITH INTEGRAL GFCI RECEPTACLE	120	LED	162	30' POLE	LUMINAIRE: MCGRAW-EDISON #GLEON-SA5A-740-U-T3-BZ-HSS-PR, POLE: COOPER #RSS6M30SFN1XE	OR EQUAL	EFFICACY = 113.4 LUMENS/W

4.1 ELECTRICAL SCHEDULES

NOT TO SCALE

S:\2021\M21126 -- GWE -- Bonner County Solid Waste\Drawings\M21126-E105.dwg

AEI Engineering Incorporated
1038 W. Davidson Avenue
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(208) 666-4001 office
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NO.	REVISION DESCRIPTION	BY	DATE

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DATE: FEBRUARY 24, 2023

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ELECTRICAL SCHEDULES

SHEET NO.
E105

C&W SCHEDULE

ABBREVIATIONS: **CAB**-CABLE **CTL**-CONTROL **DISC**-DISCONNECT **JB**-JUNCTION BOX **LEV**-LEVEL **MFG**- MANUFACTURER **MTR**-MOTOR **PRESS**-PRESSURE **PR**-PAIR **PWR**-POWER **RCPT**-RECEPTACLE

SIG-SIGNAL **SPC**-SHIELDED POWER CABLE **STP**- SHIELDED TWISTED PAIR CABLE **SW**-SWITCH **XMITTER**-TRANSMITTER **(2-7C)**- INDICATES TWO-SEVEN CONDUCTOR CABLES

CONDUIT TAG	SERVICE	ROUTING		CONDUIT		CONDUCTORS		REMARKS OR REFERENCE DRAWING
		FROM	TO	QTY	SIZE	(QTY) & SIZE	GROUND SIZE	
F-100	UTILITY, NEW WTB	UTILITY POWER POLE	NEW UTILITY TRANSFORMER	1	3"	BY UTILITY	-	COORDINATE REQUIREMENTS WITH UTILITY - NORTHERN LIGHTS ELEC COOP
F-101	UTILITY, NEW WTB	NEW UTILITY TRANSFORMER	CT ENCLOSURE	1	3"	BY UTILITY		
F-102	UTILITY, NEW WTB	CT ENCLOSURE	NEW UTILITY METER	1	1"	(10) 10 AWG	12 AWG	ABOVE NOTE TYPICAL, ALL "F-XXX" CONDUITS
F-103	UTILITY, NEW CFC REMOVAL	UTILITY POWER POLE	NEW UTILITY TRANSFORMER	1	3"	BY UTILITY	-	
F-104	UTILITY, NEW CFC REMOVAL	NEW UTILITY TRANSFORMER	NEW UTILITY METER	1	3"	BY UTILITY	-	
P-100	WTB SERVICE	CT ENCLOSURE	NEW WTB PANEL "P1"	1	4"	(3) 500 KCMIL	-	
P-101	EXISTING WTB SERVICE	NEW WTB PANEL "P1"	EXISTING WTB PANEL	1	1-1/2"	(3) 3 AWG	8 AWG	ALSO SEE DETAIL 4.4 ON SHEET E101, REUSE SOME EXISTING CONDUIT
P-102	AUTOMATIC TRANSFER SWITCH	NEW UTILITY METER	AUTOMATIC TRANSFER SWITCH	1	2-1/2"	(3) 3/0 AWG	-	
P-103	CFC REMOVAL SERVICE	CFC REMOVAL PANEL "P3"	AUTOMATIC TRANSFER SWITCH	1	1-1/4"	(3) 3 AWG	6 AWG	
P-104	GENERATOR POWER & START SIGNAL	AUTOMATIC TRANSFER SWITCH	GENERATOR	1	1-1/4"	(3) 3 AWG, (2) 14 AWG	8 AWG	
P-105	SITE LIGHTING	CFC REMOVAL PANEL "P3"	YARD LIGHTS VIA ELECTRICAL VAULTS	1	2"	(2) 8 AWG	10 AWG	
P-106	GENERATOR UTILITIES	CFC REMOVAL PANEL "P3"	GENERATOR 120V UTILITIES	1	1"	(6) 12 AWG	12 AWG	
P-107	EXHAUST FAN EF-1	NEW WTB PANEL "P1"	EF-1 STARTER	1	3/4"	(2) 12 AWG	12 AWG	
P-108	EXHAUST FAN EF-1	EF-1 STARTER	EXHAUST FAN EF-1	1	3/4"	(2) 12 AWG	12 AWG	
P-109	EXHAUST FAN EF-2	NEW WTB PANEL "P1"	EF-2 STARTER	1	3/4"	(2) 12 AWG	12 AWG	
P-110	EXHAUST FAN EF-2	EF-2 STARTER	EXHAUST FAN EF-1	1	3/4"	(2) 12 AWG	12 AWG	
P-111	CRANE VFD POWER	NEW WTB PANEL "P1"	VFD DISCONNECT	1	2-1/2"	(3) 3/0 AWG	6 AWG	
P-112	CRANE VFD POWER	VFD DISCONNECT	CRANE VFD	1	2-1/2"	(3) 3/0 AWG	6 AWG	BID ADDITAVE ALTERNATE
P-113	CRANE POWER	CRANE VFD	CRANE CONTROL PANEL	1	2-1/2"	(3) 3/0 AWG	6 AWG	BID ADDITAVE ALTERNATE
P-114	HHW SERVICE	CFC REMOVAL PANEL "P3"	HHW LOAD CENTER "LC1"	1	1-1/2"	(3) 3 AWG	8 AWG	
P-115	FUTURE ATTENDANT SHACK POWER	CFC REMOVAL PANEL "P3"	ELECTRICAL VAULT "EV-P103"	1	2"	-	-	SPARE CONDUIT FOR FUTURE USE
P-116	SITE LIGHTING	ELECTRICAL VAULT "EV-P100"	ELECTRICAL VAULT "EV-P101"	1	2"	(2) 8 AWG	10 AWG	
P-117	SITE LIGHTING	ELECTRICAL VAULT "EV-P101"	ELECTRICAL VAULT "EV-P102"	1	2"	(2) 8 AWG	10 AWG	
P-118	SITE LIGHTING	ELECTRICAL VAULT "EV-P101"	YARD LIGHTS	1	2"	(2) 8 AWG	10 AWG	
P-119	SPARE	ELECTRICAL VAULT "EV-P101"	AUXILIARY BUILDING	1	2"	-	-	STUB UP AND CAP INSIDE BUILDING
C-101	CONTACT WATER TANK FLOAT	CONTACT WATER TANK ALARM PANEL	CONTACT WATER TANK FLOAT	1	1-1/2"	(2) 14 AWG	14 AWG	
S-101	FUTURE VIDEO SURVEILLANCE	ELECTRICAL VAULT "EV-S100"	ELECTRICAL VAULT "EV-S103"	1	2"	-	-	
S-102	FUTURE VIDEO SURVEILLANCE	ELECTRICAL VAULT "EV-S101"	ELECTRICAL VAULT "EV-S102"	1	2"	-	-	
S-103	SPARE	ELECTRICAL VAULT "EV-S101"	AUXILIARY BUILDING	1	2"	-	-	STUB UP AND CAP INSIDE BUILDING

ELECTRICAL/MECHANICAL EQUIPMENT SCHEDULE

ITEM	DESCRIPTION LOCATION	VOLTS PHASE	KW	HP	FLA	MCA	MOCP	STARTER BY	DISC SW BY	DISC SIZE	CONTROL METHOD BY	FEEDER	CKT NO.	NOTES
CP-1	PLUMBING PUMP NEW WTB	120/1	0.028					MC	EC	15	MC	2#12,1#12G,3/4"C	P1-11	
UH-1	WASTE OIL UNIT HEATER CFC	120/1		1/12				MC	EC	20	MC	2#12,1#12G,3/4"C	P3-10	
WH-1	WATER HEATER NEW WTB	240/1	4.1		51			MC	EC	70	MC	3#4, 1#8G, 1-1/4"C	P1-7,9	
EWH-1	ELECTRIC WALL HEATER WTB	120/1	0.5		4.6			MC	EC	20	MC	2#12,1#12G,3/4"C	P1-5	
EF-1	EXHAUST FAN WTB	240/1		5				EC	EC	20	MC	3#8,1#10G,1"C	P1-14,16	
EF-2	EXHAUST FAN WTB	240/1		5				EC	EC	20	MC	3#8,1#10G,1"C	P1-18,20	

4.1 ELECTRICAL SCHEDULES
NOT TO SCALE

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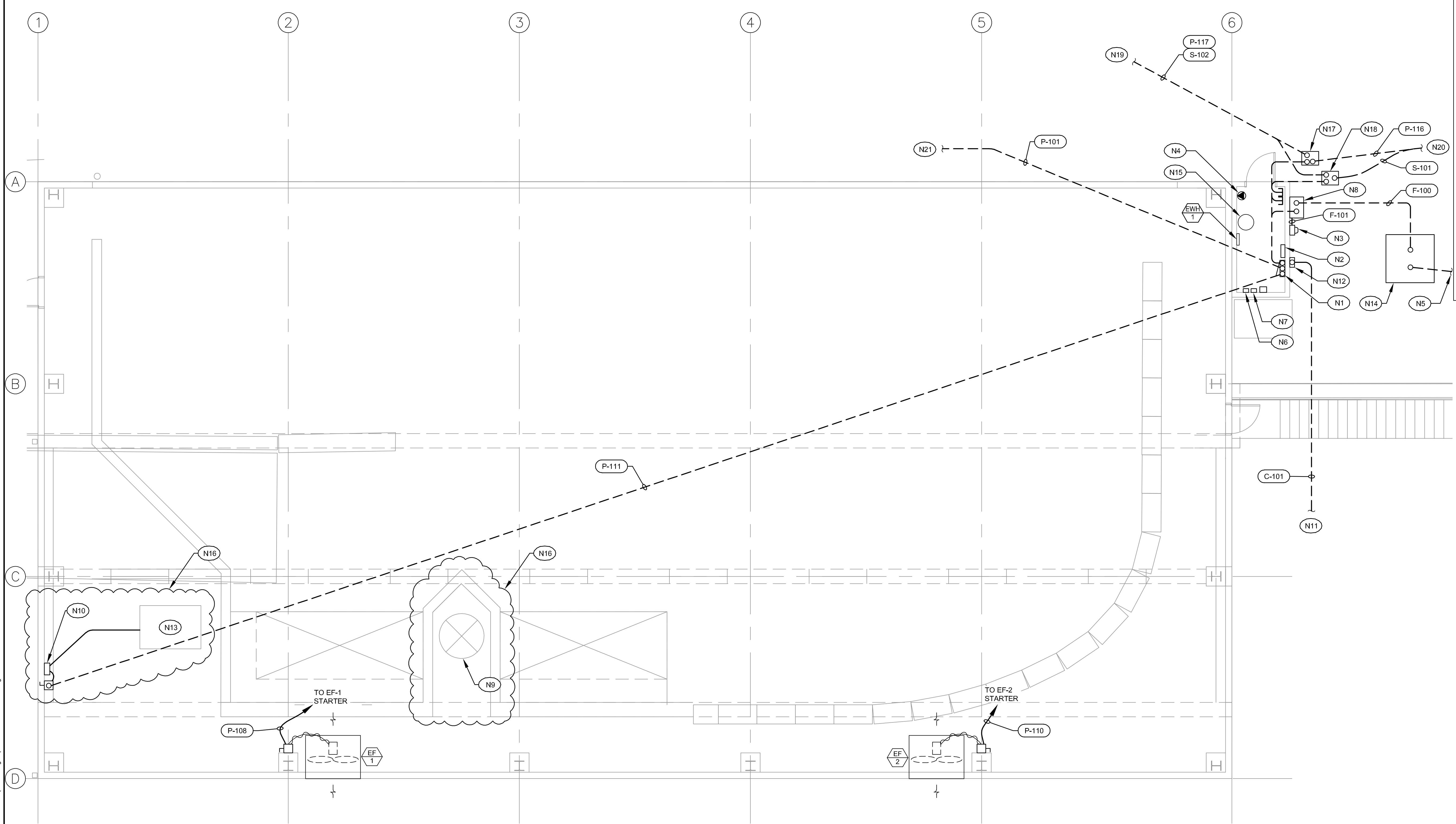
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ELECTRICAL SCHEDULES

SHEET NO.
E106



NOTES: (for this sheet)

- N1 PANEL "P1".
- N2 FIRE ALARM CONTROL PANEL (FACP).
- N3 UTILITY METER.
- N4 POWER FOR HEAT TRACE.
- N5 TO NEW UTILITY POWER POLE.
- N6 EF-1 STARTER.
- N7 EF-2 STARTER.
- N8 CT ENCLOSURE.
- N9 KNUCKLEBOOM CRANE.
- N10 VFD.
- N11 TO CONTACT WATER TANK FLOAT.
- N12 CONTACT WATER TANK LEVEL ALARM PANEL, SEE DETAIL "4.3" ON SHEET "E120".
- N13 KNUCKLEBOOM CRANE POWER PACK.
- N14 NEW UTILITY TRANSFORMER.
- N15 WATER HEATER.
- N16 ADDITIVE ALTERNATE.
- N17 NEW ELECTRICAL VAULT "EV-P101".
- N18 NEW ELECTRICAL VAULT "EV-S101".
- N19 TO NEW ELECTRICAL VAULTS "EV-P102" AND "EV-S102".
- N20 TO NEW ELECTRICAL VAULTS "EV-P100" AND "EV-S100".
- N21 TO EXISTING WTB PANEL.

N16

0 5 10
SCALE IN FEET

4.1 NEW TIPPING LEVEL POWER AND CONTROL PLAN
SCALE: 3/32"=1'-0"

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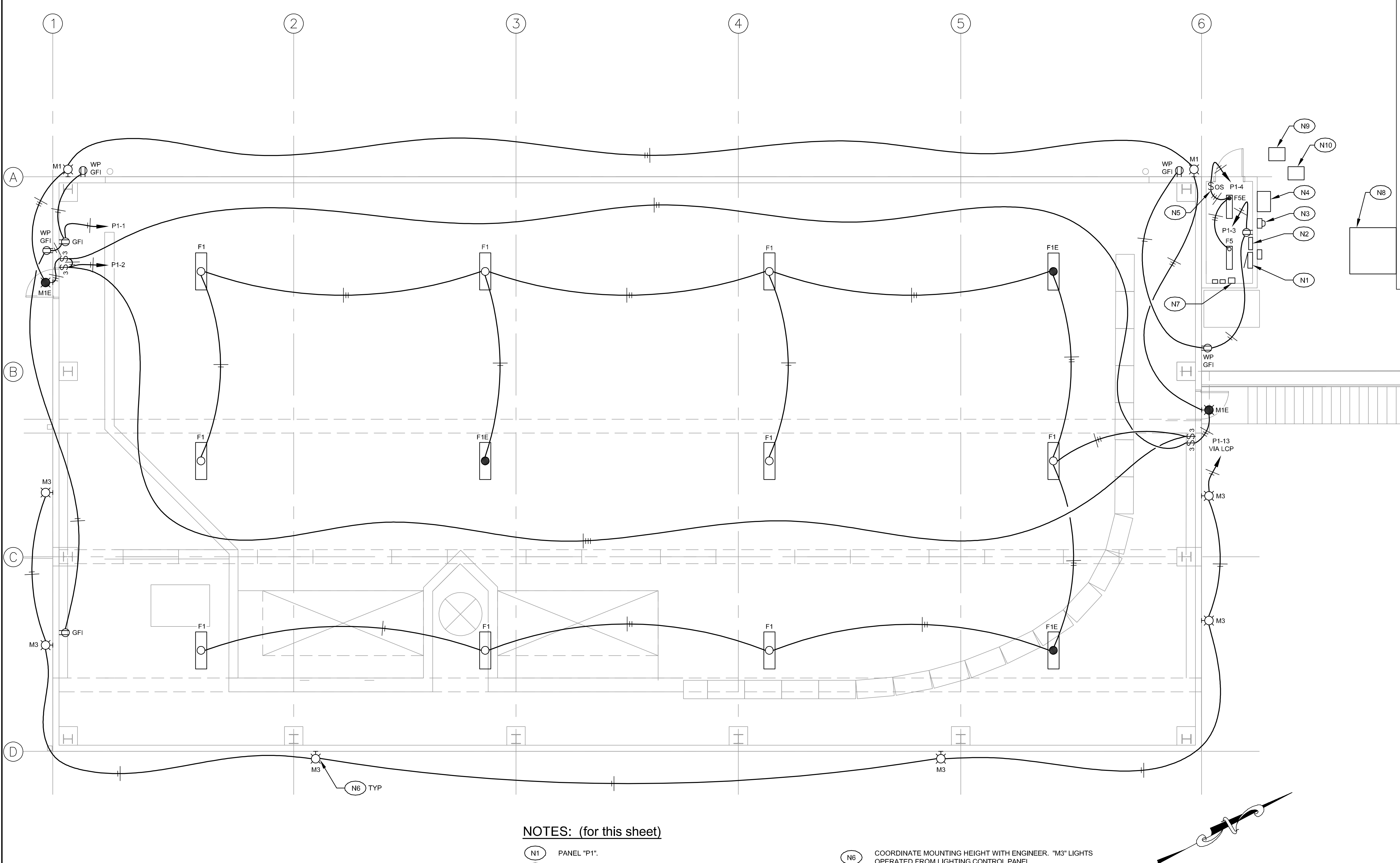
COLBURN FACILITY IMPROVEMENTS
NEW TIPPING LEVEL POWER AND CONTROL PLAN

SHEET NO.
E107



NOTES: (for this sheet)

N1	PANEL "P1".
N2	FIRE ALARM CONTROL PANEL (FACP).
N3	UTILITY METER.
N4	CT ENCLOSURE.
N5	OCCUPANCY WALL SWITCH TO BE COOPER GREENGATE: OSW-P-0801-120.
N6	COORDINATE MOUNTING HEIGHT WITH ENGINEER. "M3" LIGHTS OPERATED FROM LIGHTING CONTROL PANEL.
N7	PROVIDE LIGHTING CONTROL PANEL, TORK #DLC400BP WITH USB-MMP MEMORY MODULE PROGRAMMER, OR EQUAL.
N8	UTILITY TRANSFORMER.
N9	NEW ELECTRICAL VAULT "EV-P101".
N10	NEW ELECTRICAL VAULT "EV-S101".

0 5 10
SCALE IN FEET

4.1 NEW TIPPING LEVEL LIGHTING AND RECEPTACLE PLAN
SCALE: 3/32"=1'-0"

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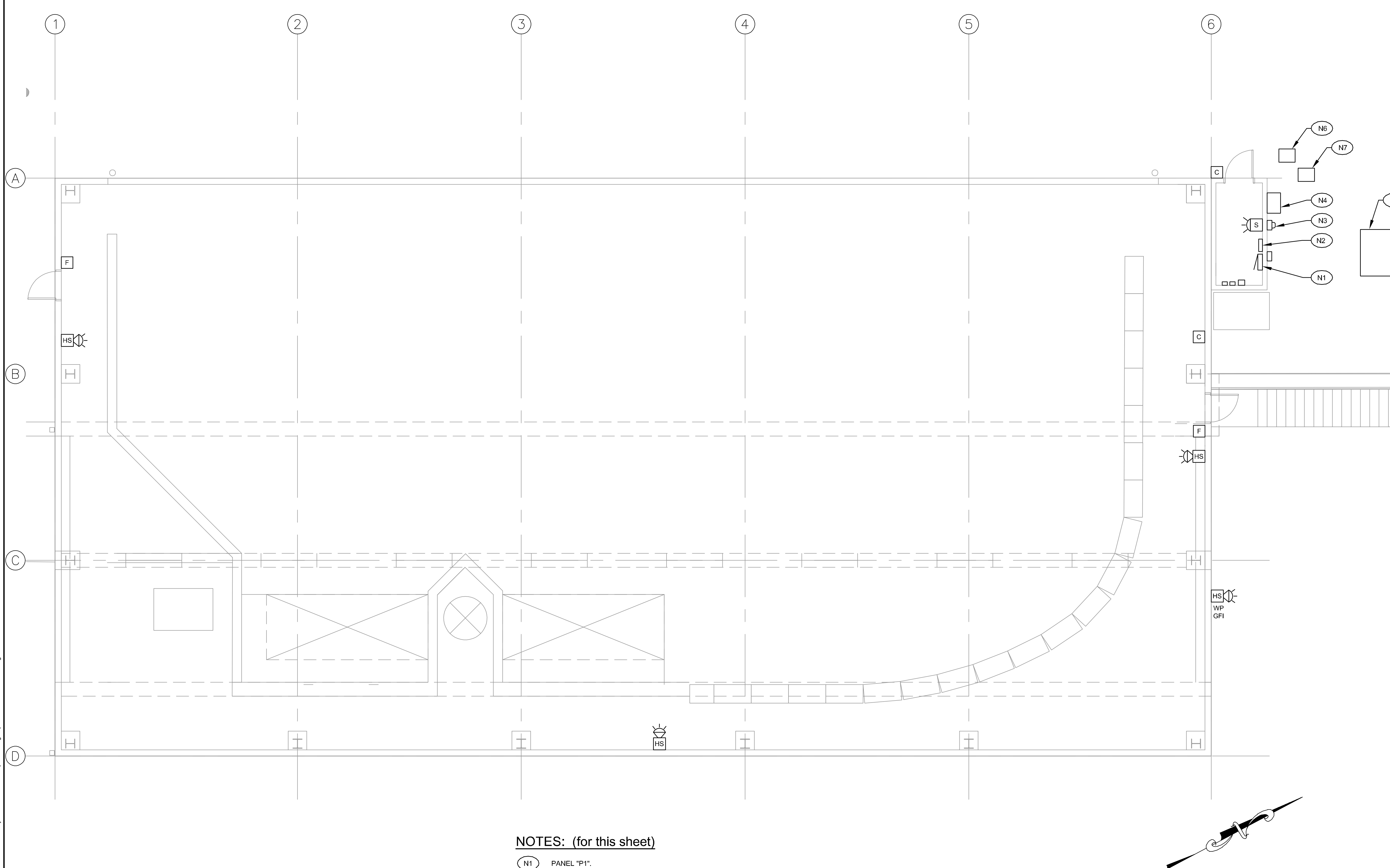
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW TIPPING LEVEL LIGHTING AND RECEPTACLE PLAN

SHEET NO.
E108



NOTES: (for this sheet)

- N1 PANEL "P1".
- N2 FIRE ALARM CONTROL PANEL (FACP).
- N3 UTILITY METER.
- N4 CT ENCLOSURE.
- N5 UTILITY TRANSFORMER.
- N6 NEW ELECTRICAL VAULT "EV-P101".
- N7 NEW ELECTRICAL VAULT "EV-S101".

0 5 10
SCALE IN FEET

4.1 NEW TIPPING LEVEL SPECIAL SYSTEMS PLAN
SCALE: 3/32"=1'-0"

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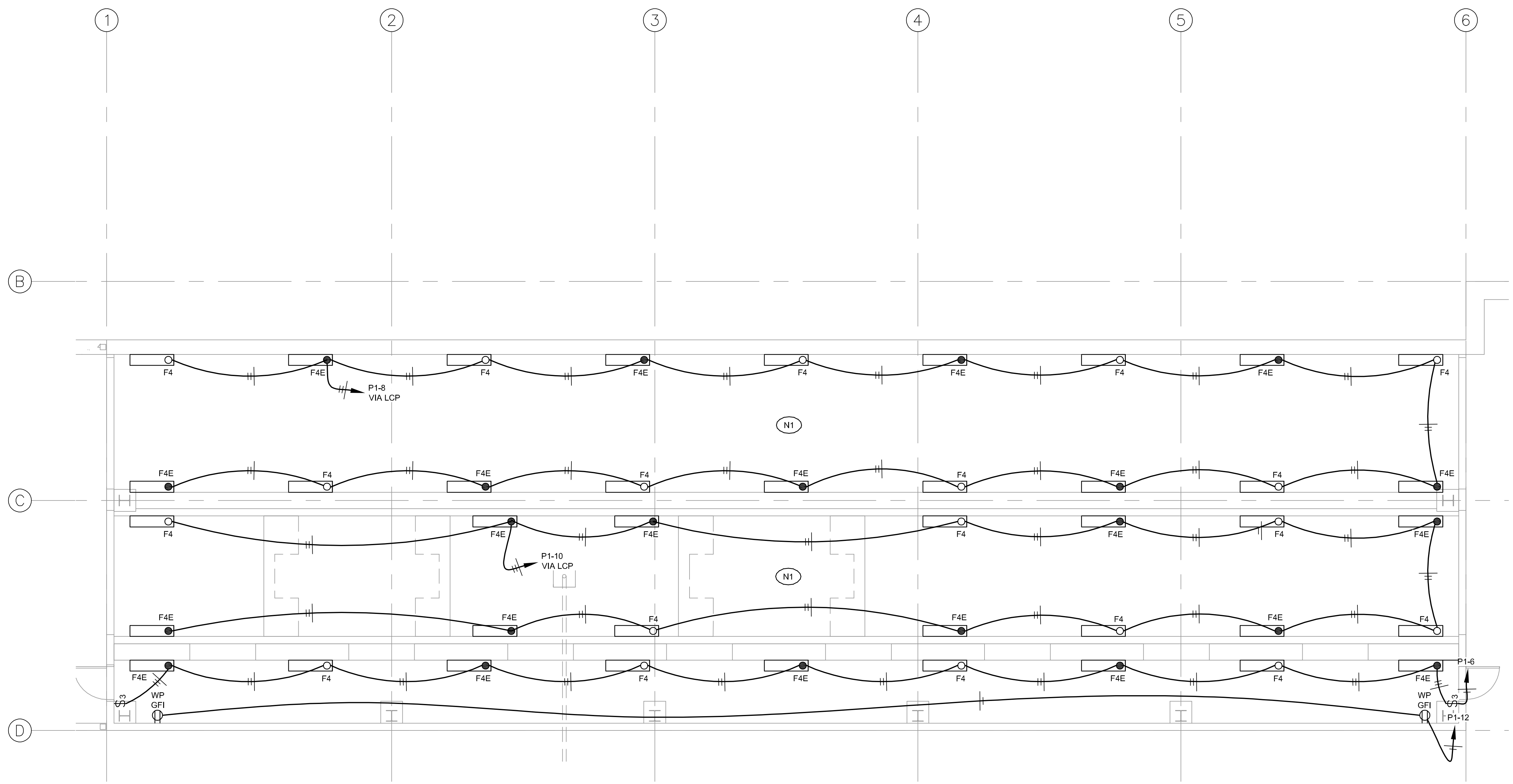
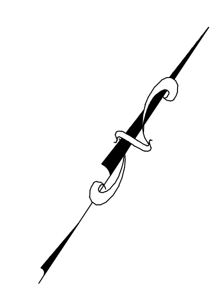
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW TIPPING LEVEL SPECIAL SYSTEMS PLAN

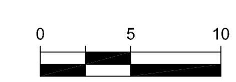
SHEET NO.
E109



NOTES: (for this sheet)

N1 PROVIDE LIGHTING CONTROL PANEL "LCP" IN ELECTRICAL ROOM TO OPERATE LIGHTS IN TRUCK TUNNELS. SEE SHEET "E-107".





4.1 NEW TUNNEL LEVEL LIGHTING AND RECEPTACLE PLAN

SCALE: 3/32"=1'-0"

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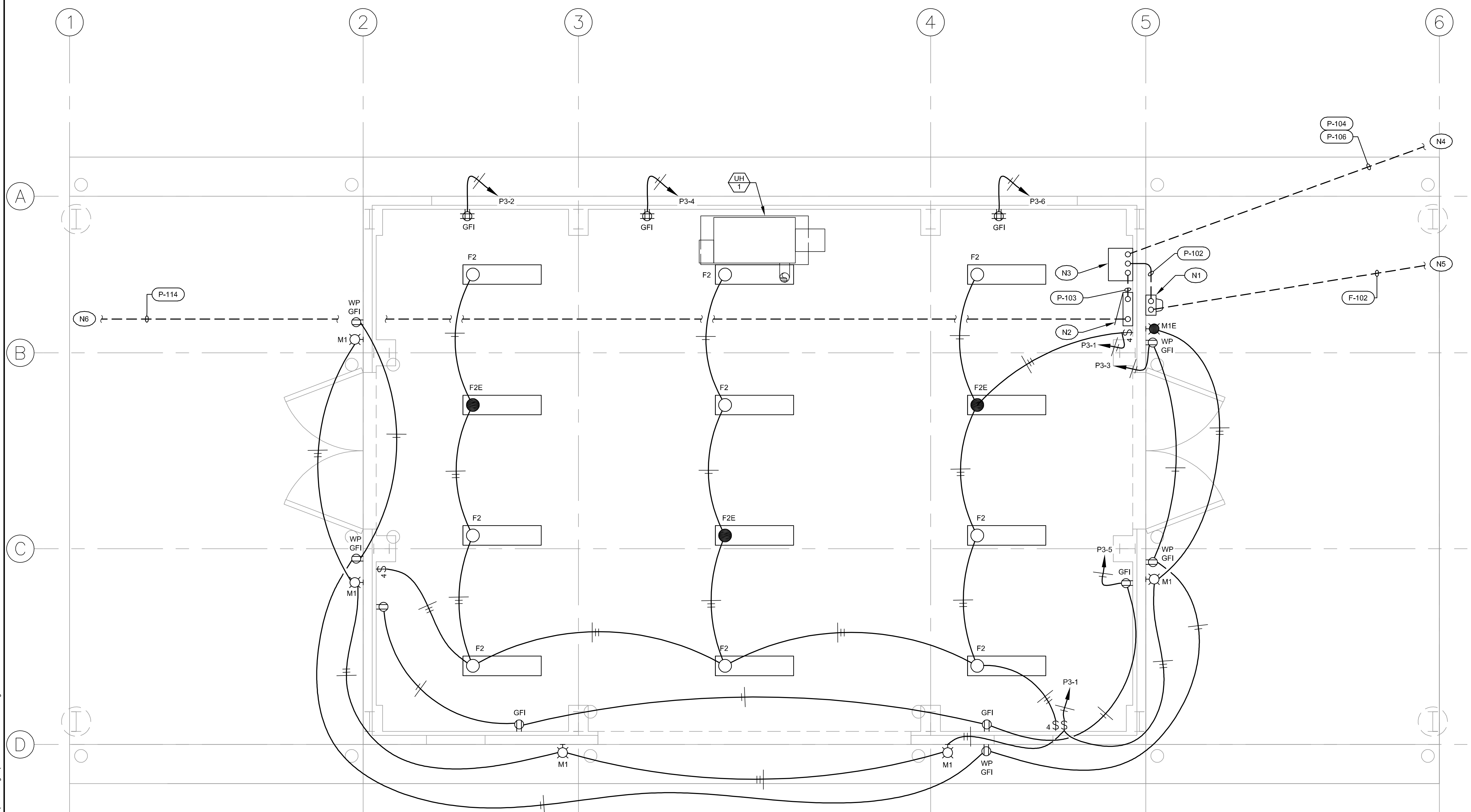
BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
NEW TUNNEL LEVEL LIGHTING AND RECEPTACLE PLAN

SHEET NO.

E110



NOTES: (for this sheet)

- N1 NEW UTILITY METER.
- N2 PANEL "P3".
- N3 AUTOMATIC TRANSFER SWITCH.
- N4 TO NEW DIESEL GENERATOR.
- N5 TO NEW UTILITY TRANSFORMER.
- N6 TO LOAD CENTER "LC1".

0 3 6
SCALE IN FEET

4.1 CFC REMOVAL BUILDING ELECTRICAL PLAN
SCALE: 3/16"=1'-0"

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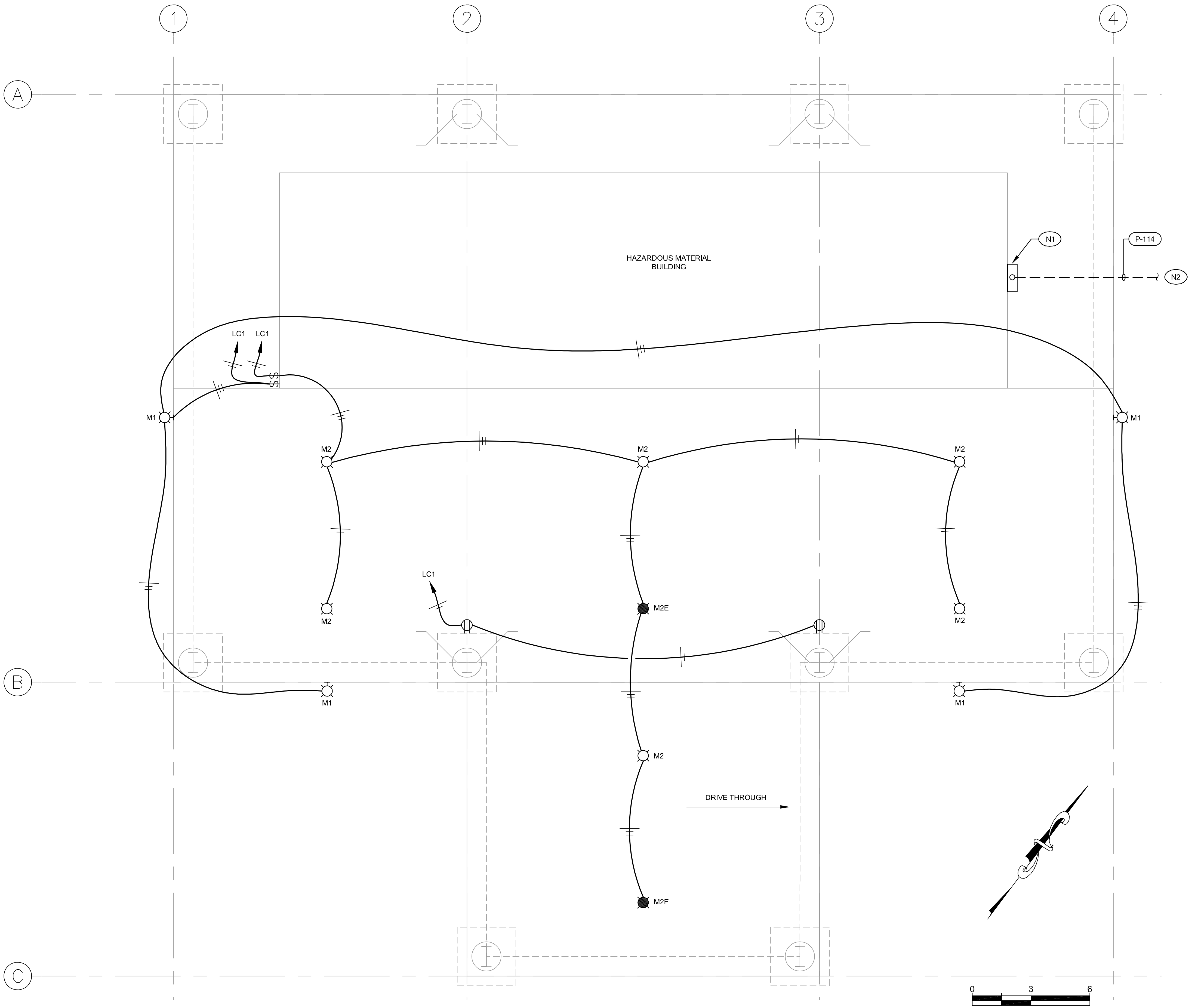
COLBURN FACILITY IMPROVEMENTS
CFC REMOVAL BUILDING ELECTRICAL PLAN

SHEET NO.
E111



4.1 HAZARDOUS MATERIAL BUILDING ELECTRICAL PLAN

SCALE: 3/16"=1'-0"

NOTES: (for this sheet)

N1 LOAD CENTER "LC1", PROVIDED BY BUILDING MANUFACTURER.

N2 TO PANEL "P3".

NO.	REVISION DESCRIPTION	BY	DATE

AEI Engineering Incorporated
1038 W. Davidson Avenue
Coeur d'Alene, ID 83814
(208) 666-4001 office
(208) 666-4021 fax

PROJECT: M21126
DESIGNED: SRJ
DRAWN: TLS
CHECKED: SRJ
APPROVED: RJW
DATE: FEBRUARY 24, 2023

PROFESSIONAL ENGINEER LICENSED 18028 STATE OF IDAHO SCOTT R. JACOBSON
02/24/23

GreatWest ENGINEERING
3050 N. LAKEHARBOR LANE SUITE 201
BOISE, ID 83703
(208)576-6646

BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
HAZARDOUS MATERIAL BUILDING ELECTRICAL PLAN

SHEET NO.
E112

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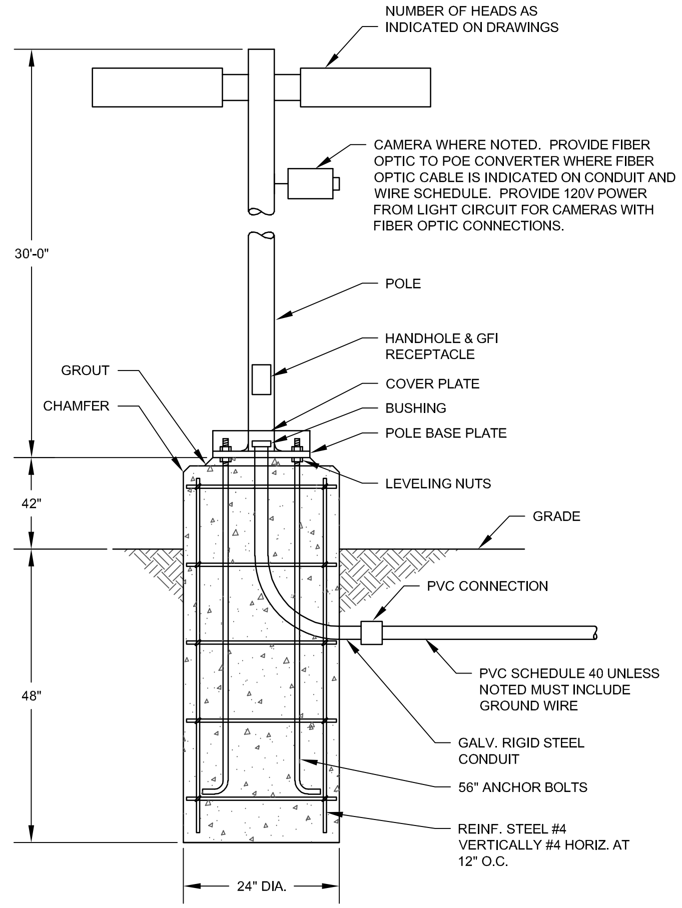
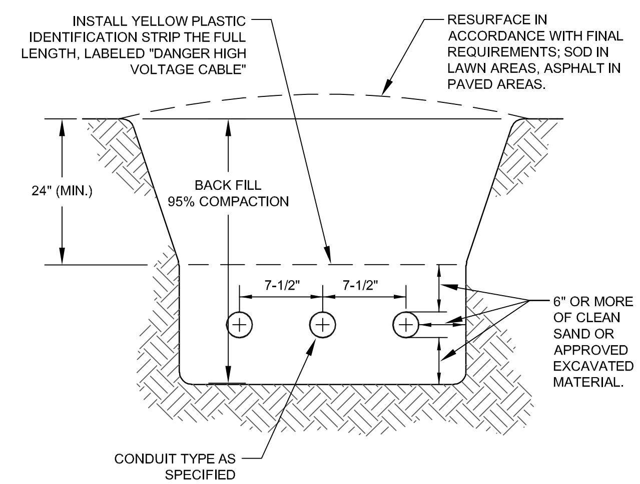
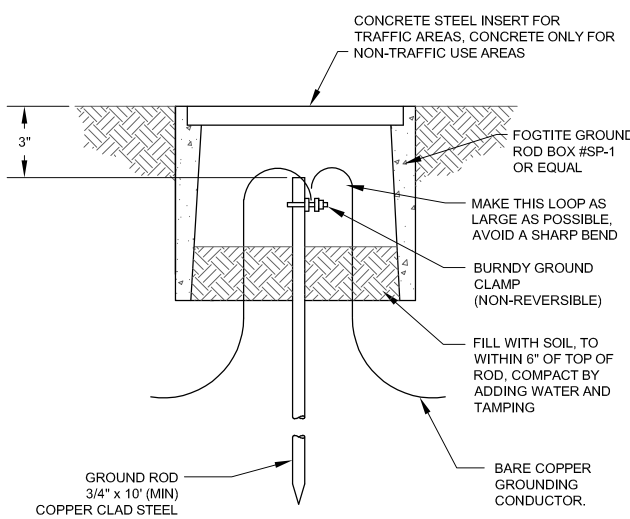


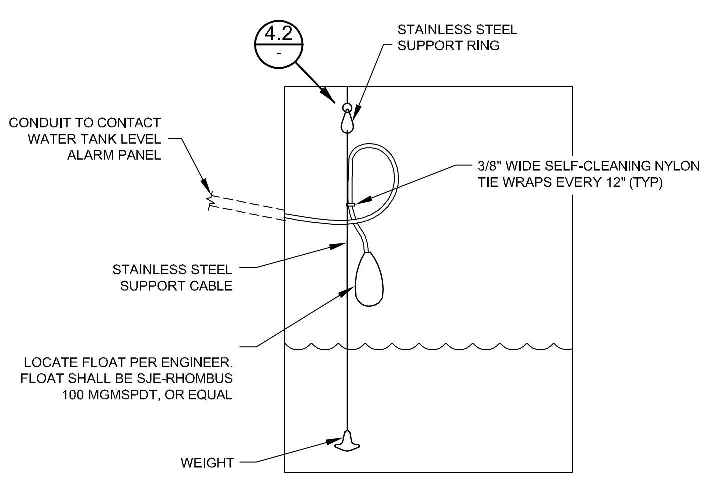
2.1 TYPICAL POLE LIGHT MOUNTING DETAIL
NOT TO SCALE



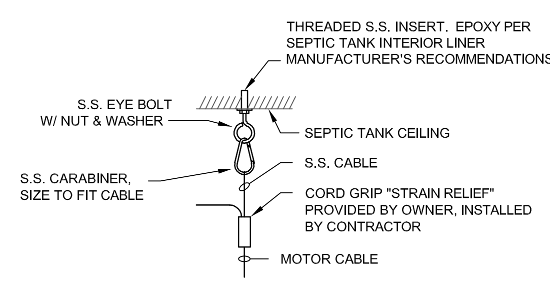
2.2 TYPICAL TRENCH DETAIL
NOT TO SCALE



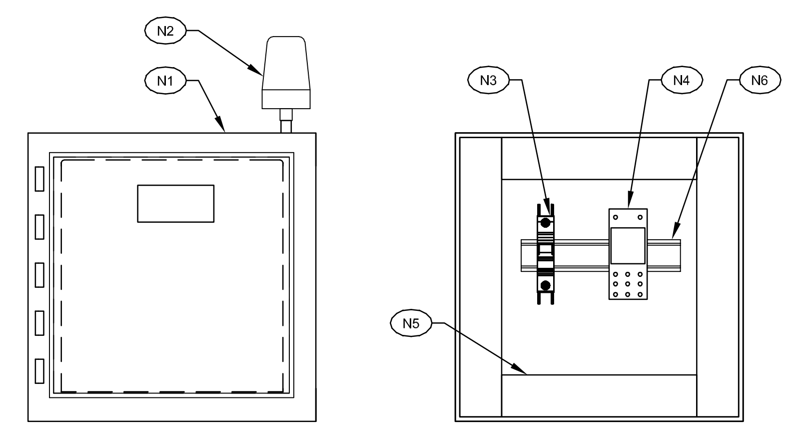
2.3 TYPICAL GROUND ROD DETAIL
NOT TO SCALE



4.1 CONTACT WATER TANK FLOAT ELEVATION DETAIL
NOT TO SCALE



4.2 FLOAT CORD SUPPORT DETAIL
NOT TO SCALE



FRONT VIEW

BACK PANEL LAYOUT

NOTES: (for this detail)

- N1 12" X 12" X 6" NEMA 4X STAINLESS STEEL PANEL WITH HINGED DOOR.
- N2 RED STROBE ALARM LIGHT, FEDERAL SIGNAL #225XST-120R-N, OR APPROVED EQUAL.
- N3 CIRCUIT BREAKER.
- N4 CONTROL RELAY.
- N5 SLOTTED WIREWAY AS REQUIRED.
- N6 DIN RAIL AS REQUIRED.

4.3 CONTACT WATER TANK LEVEL ALARM PANEL ELEVATION DETAIL
NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

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BONNER COUNTY SOLID WASTE
COLBURN FACILITY IMPROVEMENTS
ELECTRICAL DETAILS

SHEET NO.
E113

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