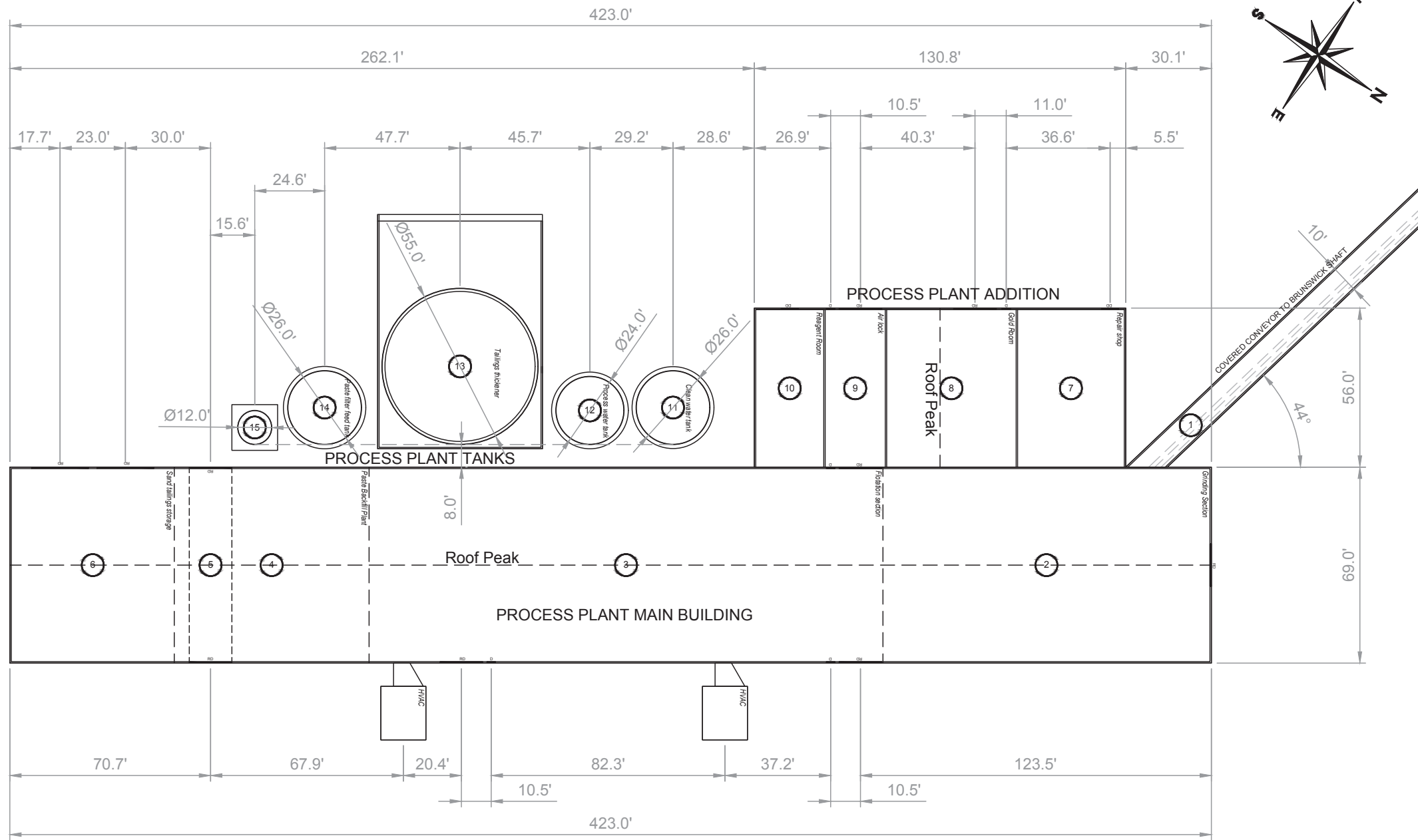


Process Plant - Main Building

~29,000 ft²

- 1 Covered Conveyor
Conveyor transfers gold mineralization from Brunswick shaft silo into grinding section of process plant. Conveyor fully enclosed.
- 2 Grinding Section
~8,000 ft²
Wet grinding of ore by SAG and ball mills. Gravity separation of gold with gravity concentrate transferred to gold room.
- 3 Flotation Section
~12,000 ft²
Ground slurry transferred to flotation section. Froth flotation separates sulphide minerals which are filter pressed. Dry concentrate loaded into bags for shipment offsite. Sand tailings slurry transferred to tailings thickener.
- 4 Paste Backfill Section
~5,000 ft²
Backfill plant includes dewatering of sand tailings to produce either sand tailings for use as engineered fill or cemented paste backfill which is transferred into the underground mine through boreholes.
- 5 Sand Tailings Storage
~4,000 ft²
Indoor storage of dry sand tailings when direct loading of trucks not possible. Use of diesel powered front end loaders to move material in day time hours. Ventilation system for safe use of diesel equipment during loading operations.
- 6 Sand Loading Bay
Drive-through bay to directly load trucks with dry sand tailings. Interior sound barriers to block noise from adjacent sections while overhead doors open.

Process Plant - Plan View



Building Notes

- Pre-engineered steel buildings.
- Buildings to have clear spans - No mid columns.
- Concrete slab floors with machinery foundations, sumps, and catchments as necessary.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

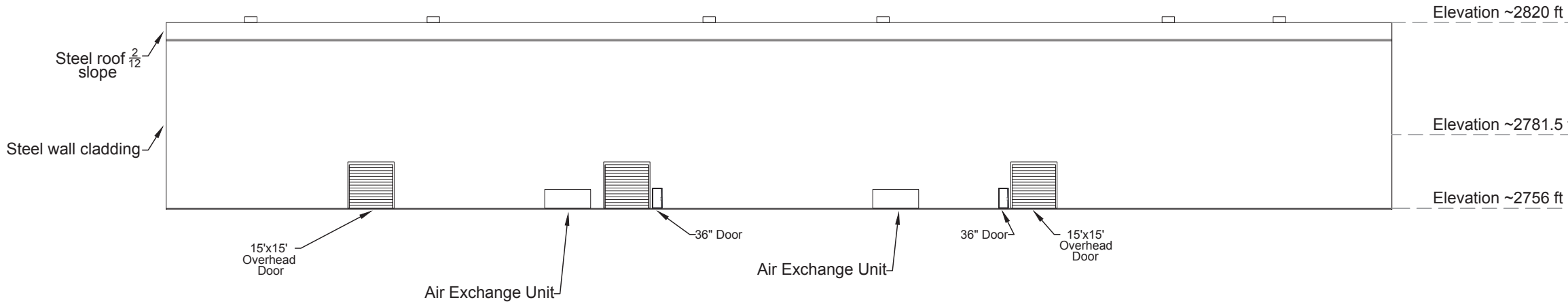
Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

Process Plant - Addition Building

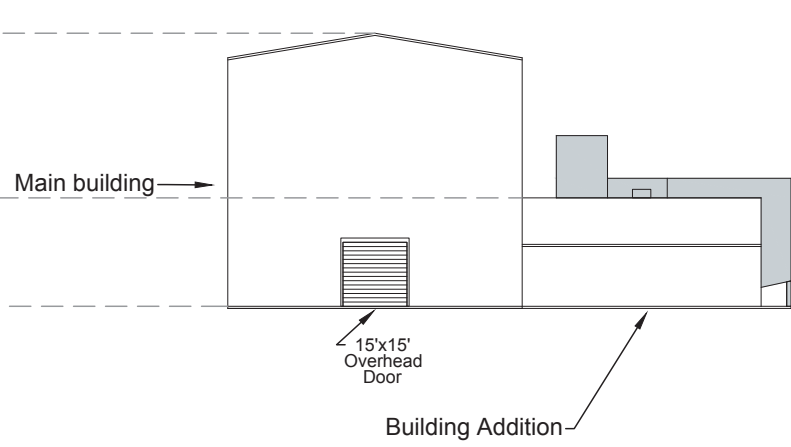
~7,300 ft²

- 7 Repair Shop
~2,100 ft²
Repair shop for millwrights and electricians
- 8 Gold Room
~2,600 ft²
Cleaning of gravity concentrates using gravity machinery, water, and small furnace to produce gold dore bars.
- 9 Main Entry Airlock
~1,200 ft²
Main entry to Process Plant. Airlock provides entry and minimizes noise from plant outside during machine or person entry to building.
- 10 Reagent Room
~1,400 ft²
Storage area and metering of flotation reagents.

Process Plant - Front View Elevation - Looking SW



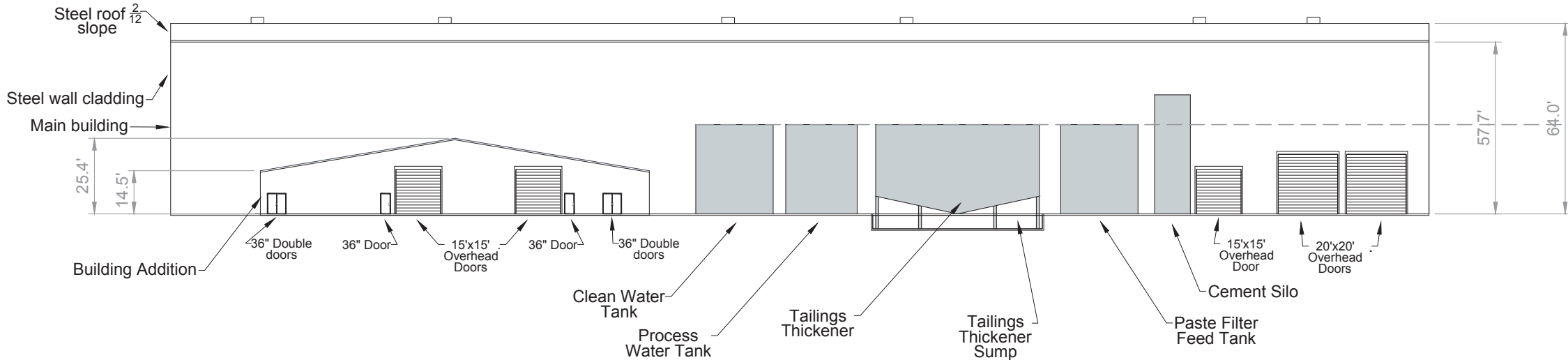
Process Plant - Side View Elevation - Looking SE



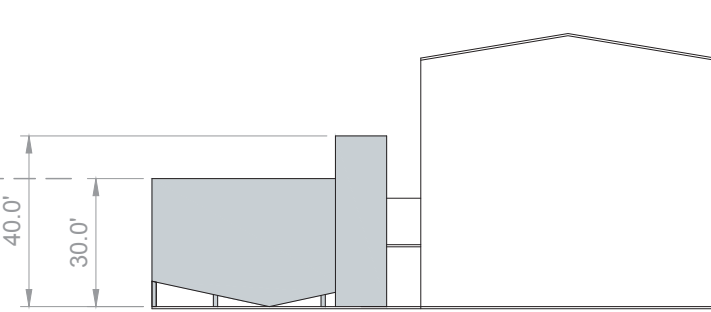
Process Plant - Tanks

- 11 Clean Water Tank
26 ft dia x 30 ft height
Treated mine water to makeup water loss from plant.
- 12 Process Water Tank
24 ft dia x 30 ft height
Water in process plant re-circulated / recycled
- 13 Tailings thickener
55 ft dia x 30 ft height
Partial de-watering of sand tailings. Decanted water to process water tank, sand tailings slurry to Paste Filter Feed Tank.
- 14 Paste Filter Feed Tank
26 ft dia x 30 ft height
Storage for partially de-watered sand tailings
- 15 Cement Silo
12 ft dia x 40 ft height
Storage for cement used in cemented paste backfill for underground filling.

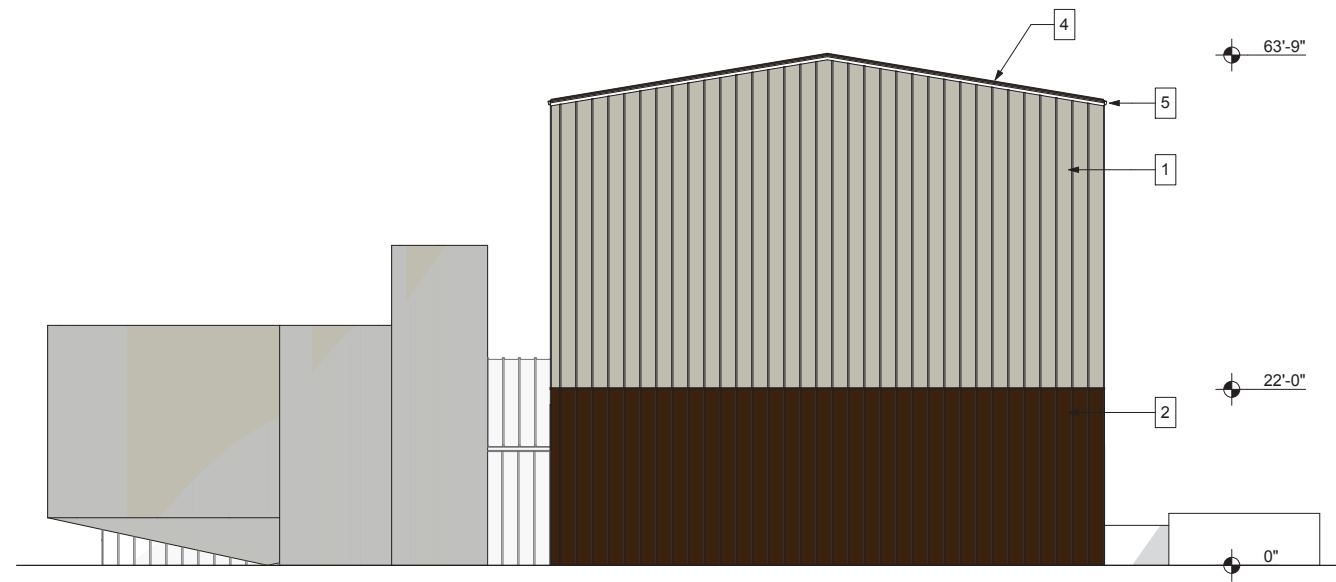
Process Plant - Rear View Elevation - Looking NE



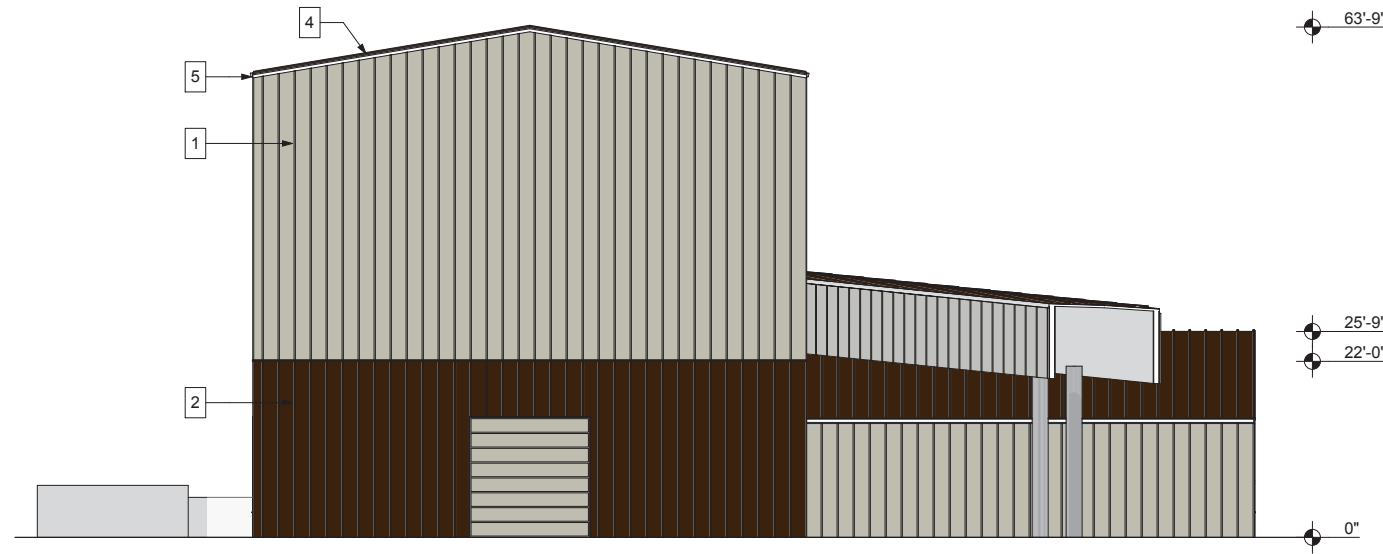
Process Plant - Side View Elevation - Looking NW



\\server\russell\Dropbox\Projects\Current\2020-27 Idaho Maryland Mine\Arch\CAD\Current\Idaho Maryland Mine Buildings.dgn



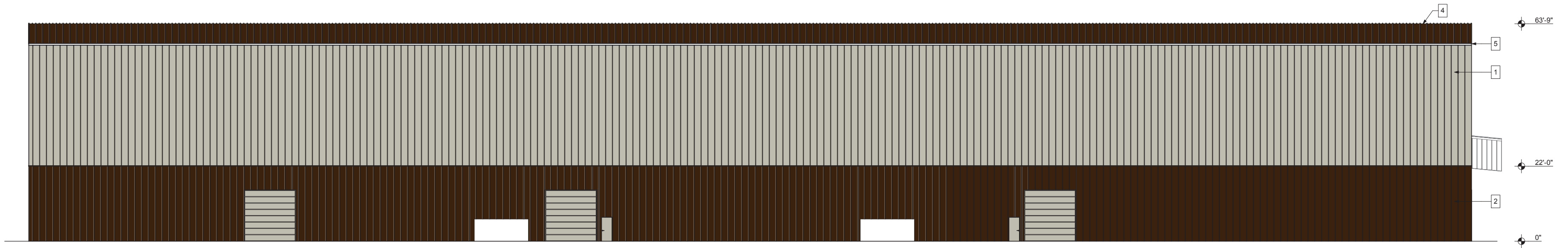
4 PROCESS PLANT
SCALE: 1/16" = 1'-0"



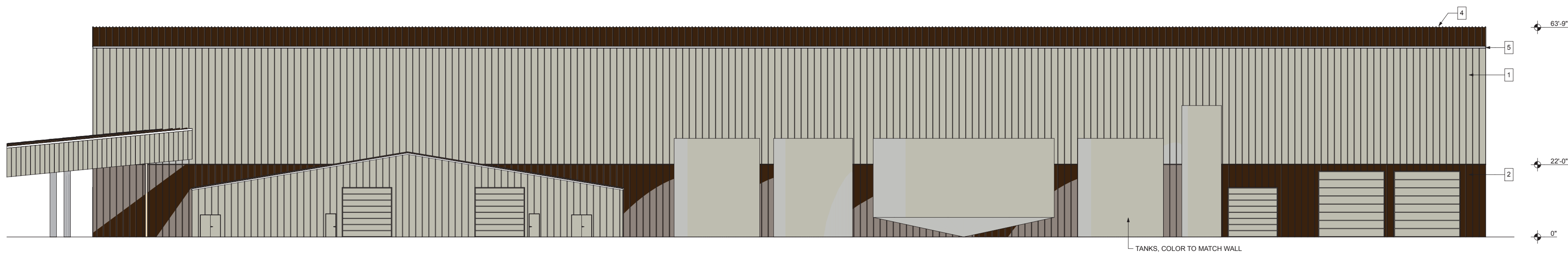
3 PROCESS PLANT
SCALE: 1/16" = 1'-0"

FINISH LEGEND

- 1. VERTICAL RIB WALL PANEL, ASH GREY
- 2. VERTICAL RIB WALL PANEL, ANTIQUE BRONZE
- 3. FLAT WALL PANEL, WEATHERED COPPER
- 4. STANDING SEAM ROOF PANEL, ANTIQUE BRONZE
- 5. GSM FASCIA GUTTER, ASH GREY
- 6. TUBE STEEL, ANTIQUE BRONZE
- 7. STONE VENEER, TBD
- 8. PERFORATED WALL PANEL, WEATHERED COPPER



2 PROCESS PLANT
SCALE: 1/16" = 1'-0"



1 PROCESS PLANT
SCALE: 1/16" = 1'-0"

TANKS, COLOR TO MATCH WALL



IDAHO-MARYLAND MINE
RISE GRASS VALLEY, INC.
12791 BRUNSWICK ROAD
GRASS VALLEY, CA 95945



ID	NAME	DATE

SUBMITTED:	DATE
SCALE	AS NOTED
DRAWN BY:	#Drawn By
CHECKED BY:	RPD
JOB:	#PIn

BUILDING
ELEVATIONS

A2.0

Changeroom / Office Building

~24,600 ft²

- 1 Administration Offices
~6,700 ft²
Office space for management, admin, and technical personnel. Individual offices, cubicles, open work areas, and conference rooms. Four individual washrooms.
- 2 Lunch Room
~1,600 ft²
Shared lunch room for use of surface employees
- 3 Male Changeroom
~8,500 ft²
Area with hanging baskets for storage and drying of work clothes. Locker area for personal items and clean clothes storage. 55 individual showers and washroom area with 4 toilets, 4 urinals, and sinks.
- 4 Female Changeroom~4,400 ft²
Area with hanging baskets for storage and drying of work clothes. Locker area for personal items and clean clothes storage. 11 individual showers and washroom area with 4 toilets and sinks.
- 5 Mine Lobby
~3,400 ft²
Open area for mustering of underground work crews and office space for mine supervision staff.

Breezeway

~1,300 ft²

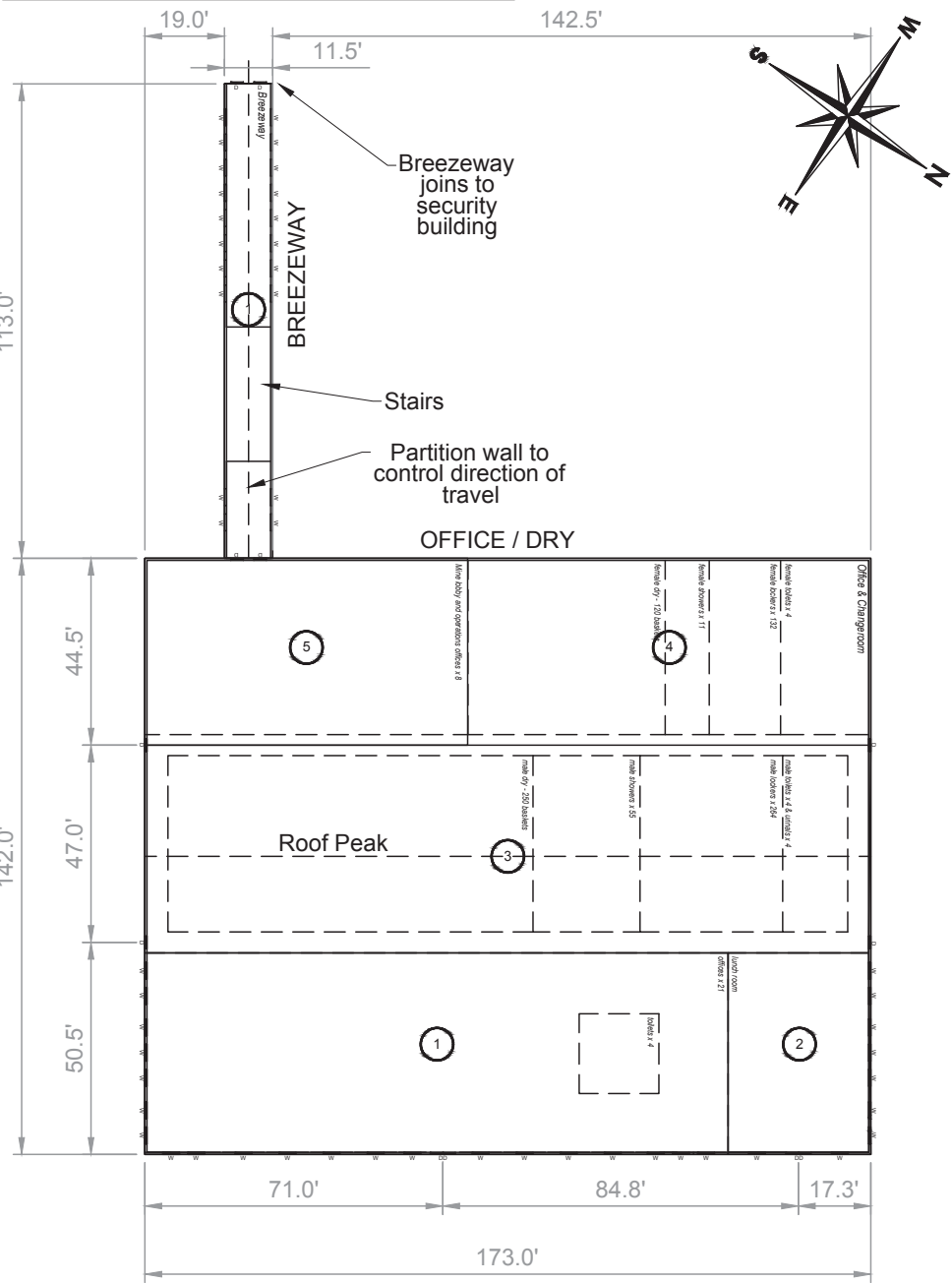
- 1 Breezeway
Enclosed hallway to join Mine Lobby to Security Building at Service Shaft. Breezeway divided by partition to control one way pedestrian travel on each side of partition.

Building Notes

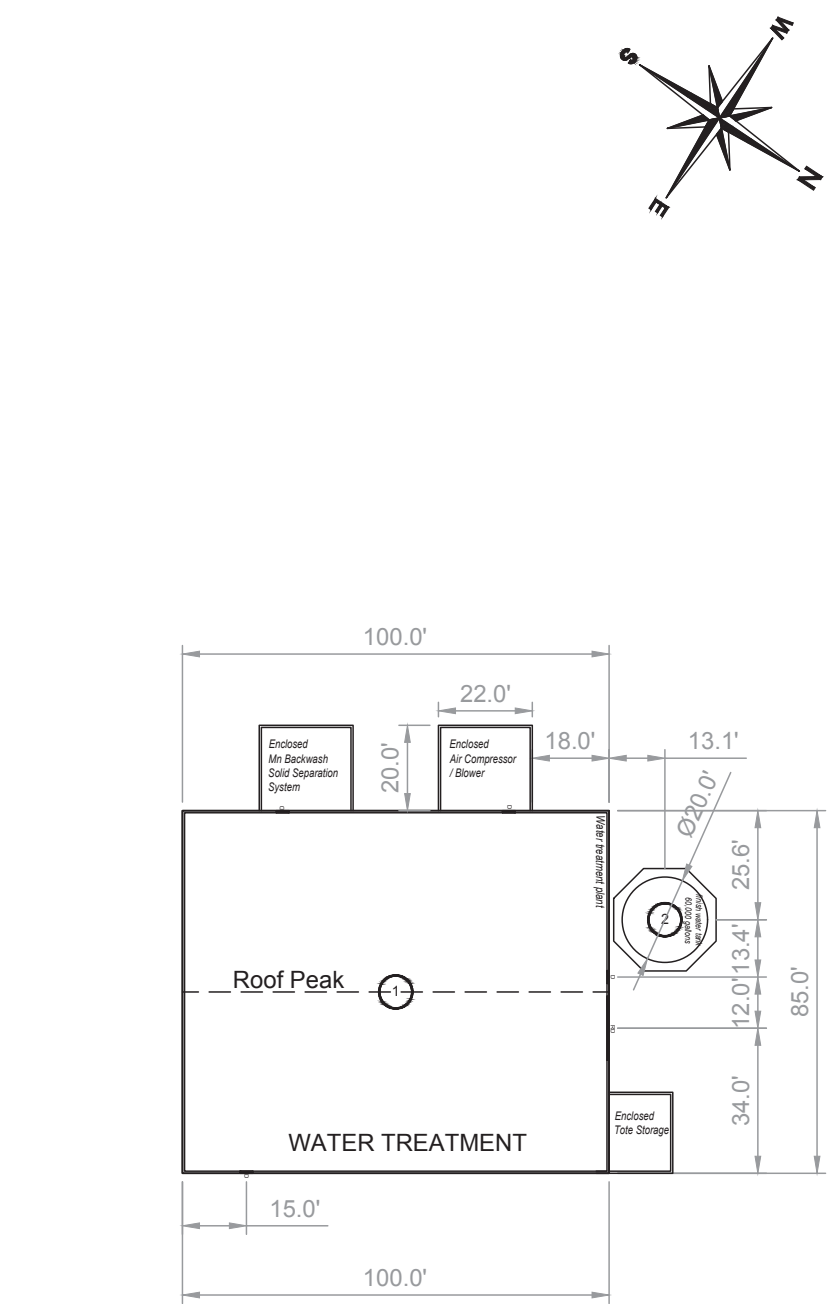
- Pre-engineered steel buildings.
- Building to have mid columns at roof peak.
- Concrete slab floors.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

Color and Architectural Details shown separately on
Russell Davidson Architecture Drawings

Changeroom / Office - Plan View



Water Treatment - Plan View



Water Treatment Building

~8,500 ft²

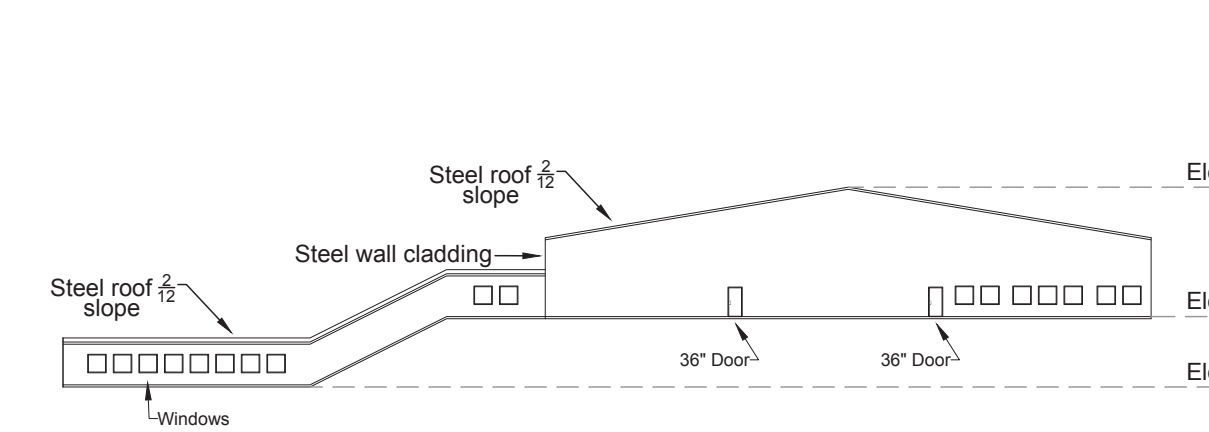
- 1 Water treatment
Containing equipment for treating mine water. MnO2 and GAC vessels, chemical storage and dosing pumps, backwash pumps, safety shower, and single office.
- 2 Finish water tank
Steel tank for holding treated mine water for pumping to discharge point. Tank holds 60,000 gallons with dimensions of 20 ft diameter x 30 feet height.

Building Notes

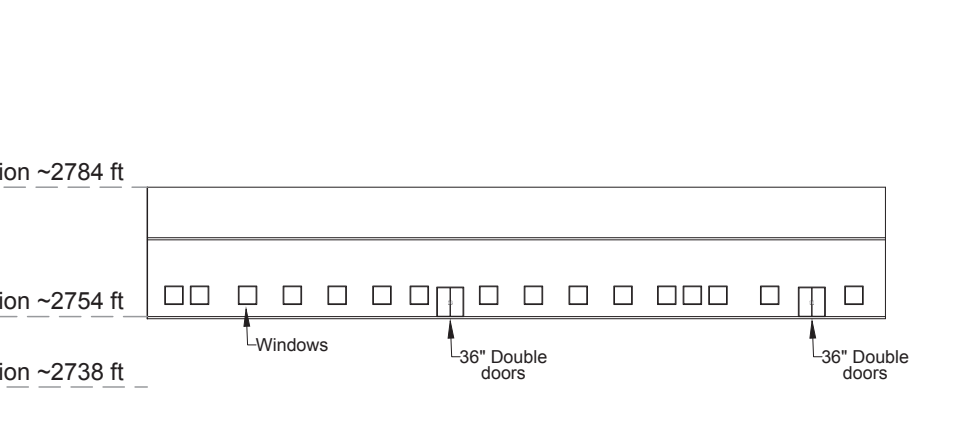
- Pre-engineered steel building.
- Buildings to have clear spans - No mid columns
- Concrete slab floors with machinery foundations, sumps, and catchments as necessary.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

Color and Architectural Details shown separately on
Russell Davidson Architecture Drawings

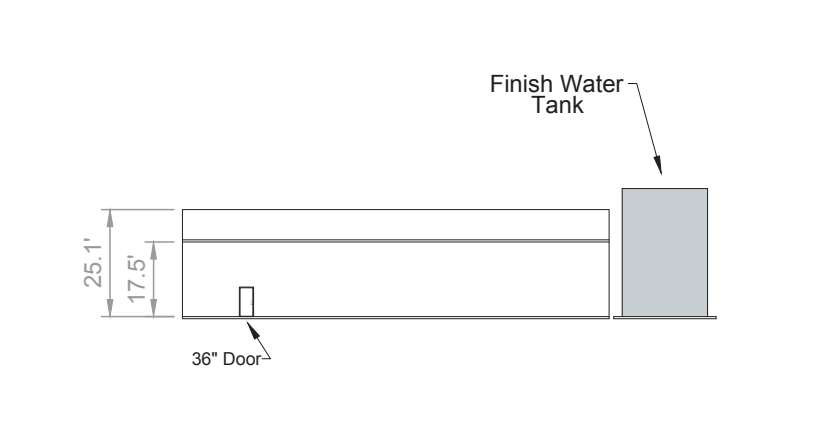
Changeroom / Office - Side View Elevation - Looking NW



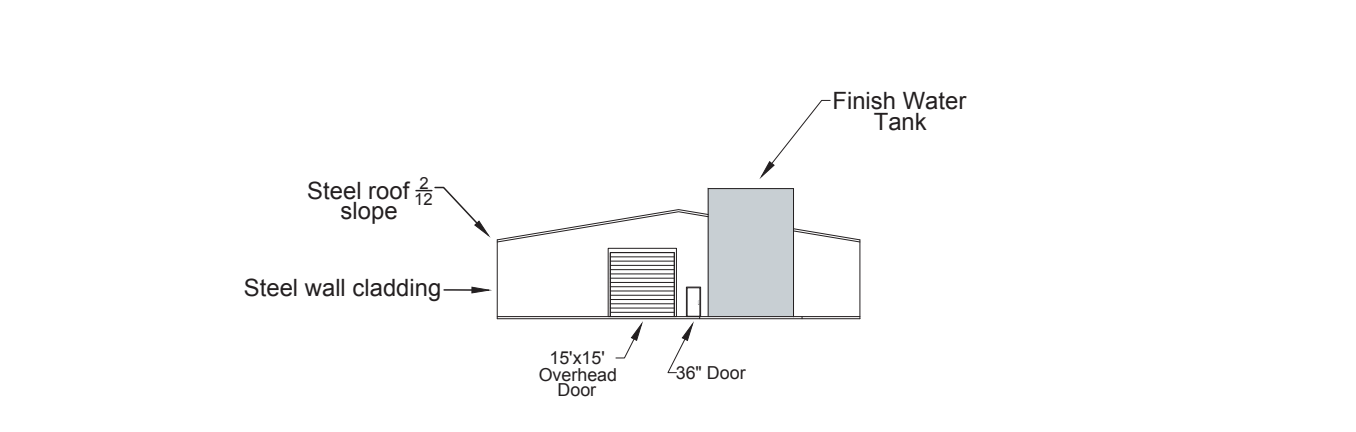
Changeroom / Office - Front View Elevation - Looking SW



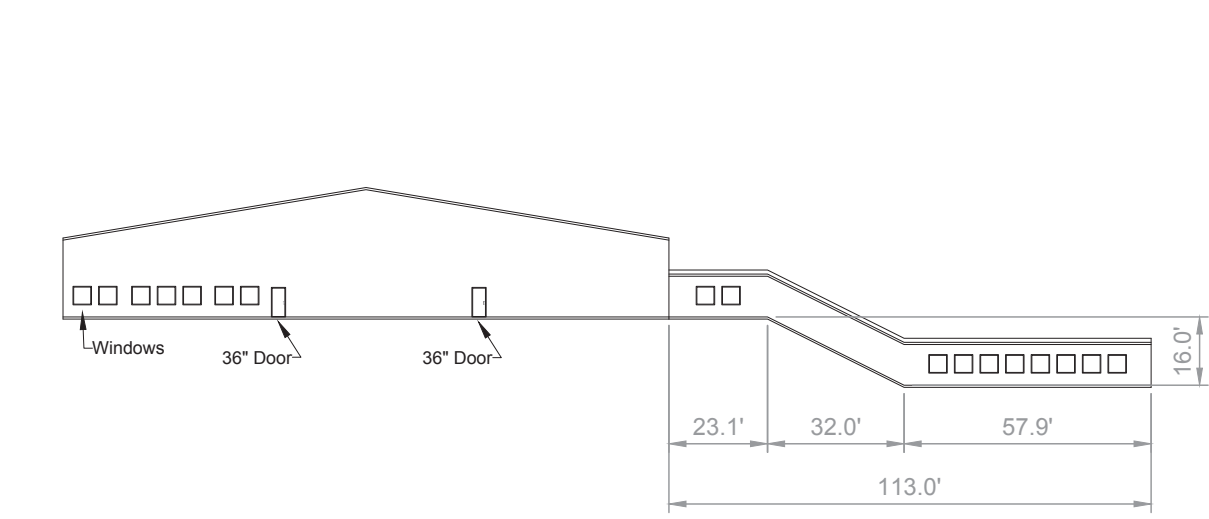
Water Treatment- Front View Elevation - Looking SW



Water Treatment- Side View Elevation - Looking SE



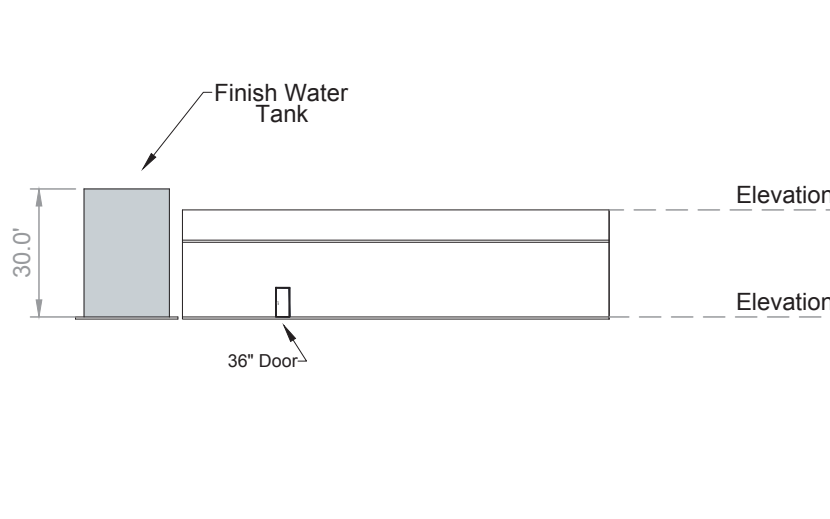
Changeroom / Office - Side View Elevation - Looking SE



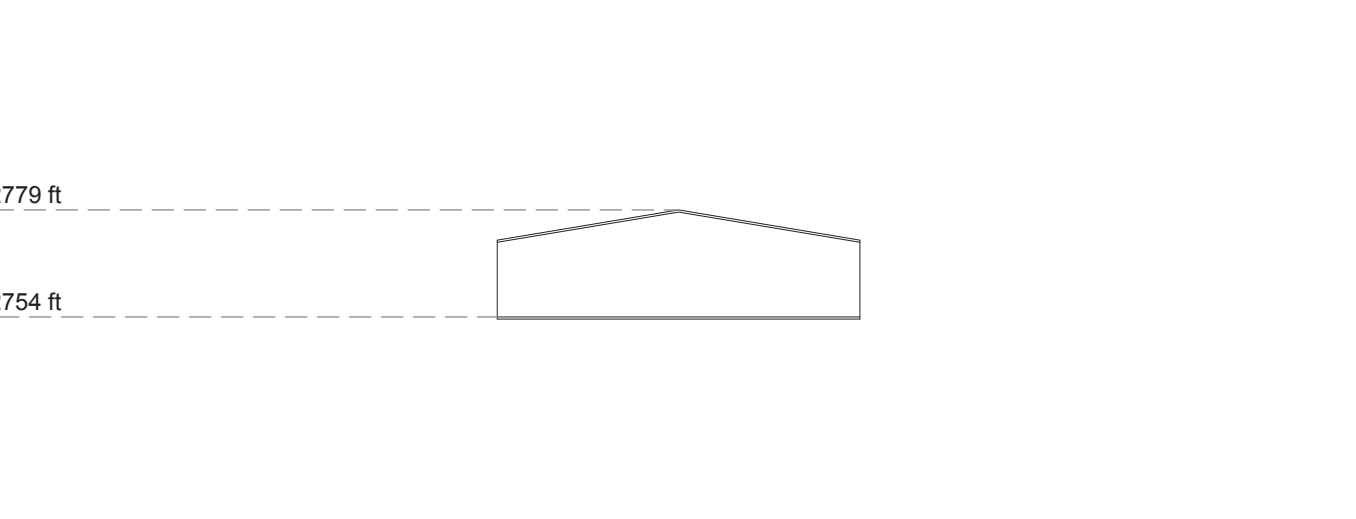
Changeroom / Office - Rear View Elevation - Looking NE



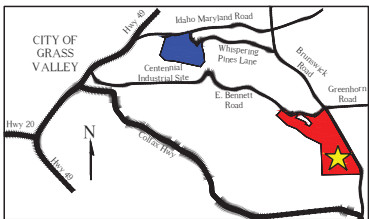
Water Treatment - Rear View Elevation - Looking NE



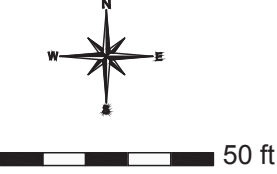
Water Treatment - Side View Elevation - Looking NW



R Idaho-Maryland Mine Project
Rise Grass Valley Inc.
PO Box 271
Grass Valley, California, USA 95945



Brunswick Industrial Site
Nevada County, SEC. 31, T.16N, R.9E., M.D.M
Total Area = 118.93 Acres
Assessor Parcel Numbers:
09-630-37, 09-630-39, 09-441-03, 09-441-04,
09-441-05, 09-441-34
Current Zoning M1-SP / Proposed Zoning M1-ME



B302 R1 Brunswick Industrial Site
Changeroom/Office, & Water Treatment Buildings
Building details and elevations

Drawnby : Rise Grass Valley - Feb 1 / 21 Scale : 1" = 30 feet

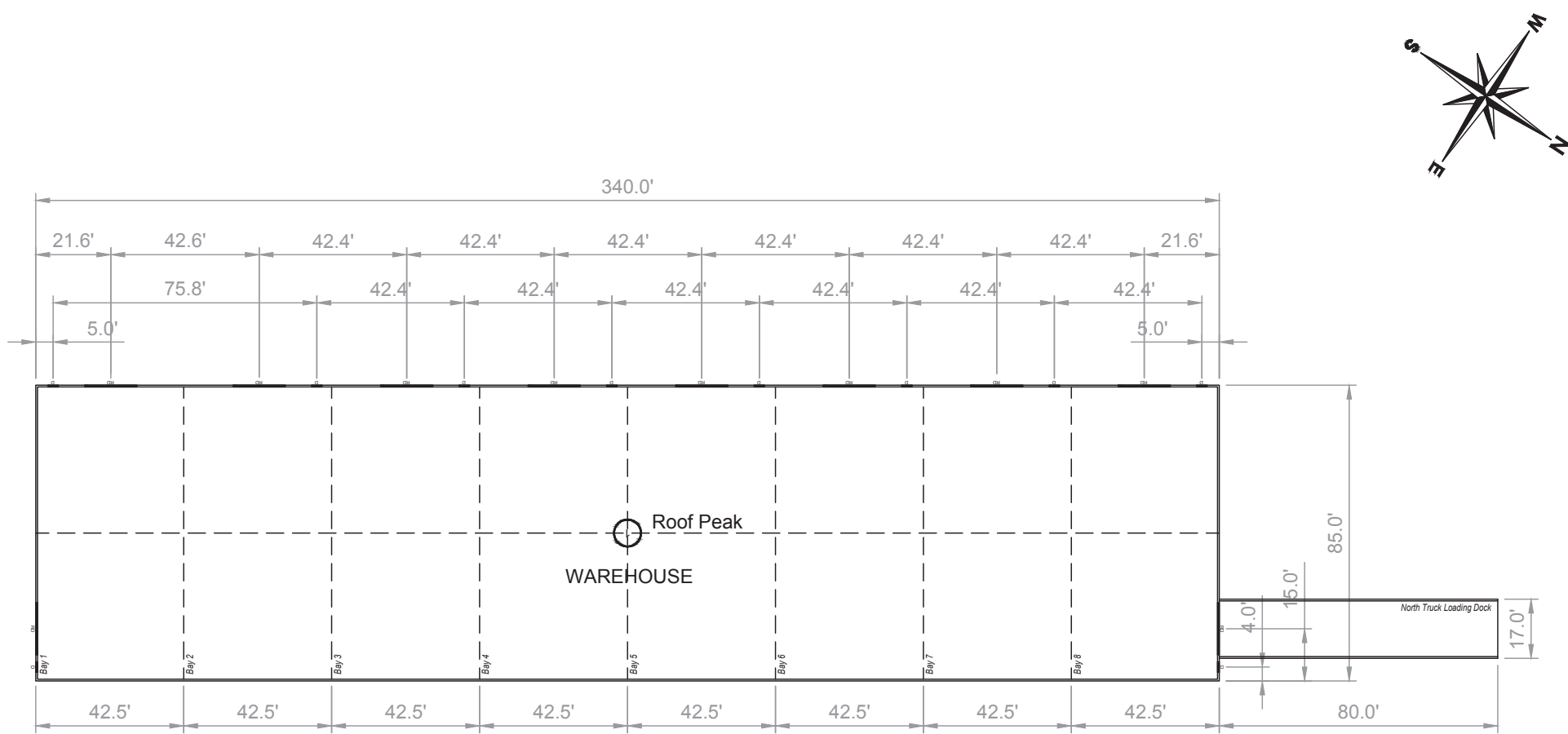
Warehouse
~29,000 ft²

① Warehouse
Area for flexible uses with partition walls installed as desired.
8 bay doors with truck loading dock on north side of building.
Plumbing installation for up to 8 single restrooms in building.

Potential Uses:

- Storage of materials and supplies
- Exploration drill core logging and cutting
- Sample assaying and labwork
- Repair and fabrication shops

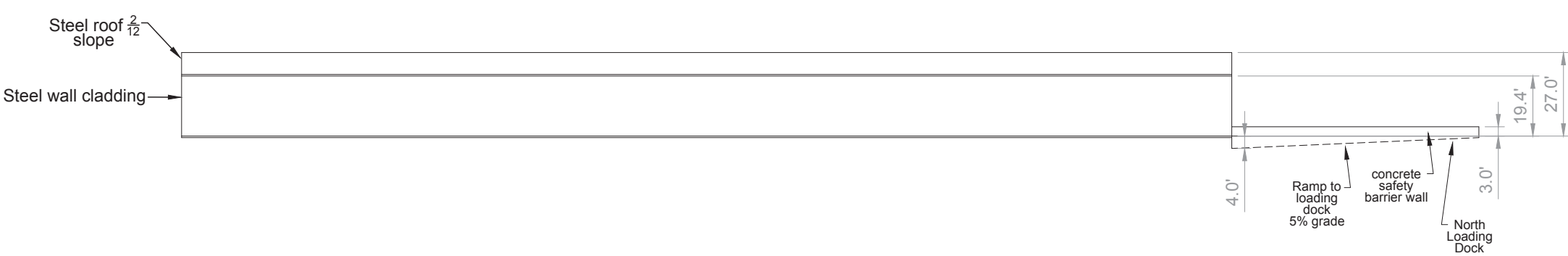
Warehouse - Plan View



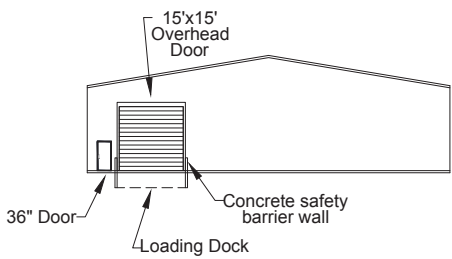
- Building Notes
- Pre-engineered steel building.
 - Buildings to have clear spans - No mid columns.
 - Concrete slab floors.
 - Steel cladding on roofs and walls.
 - Non-reflective / non metallic paint.

Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

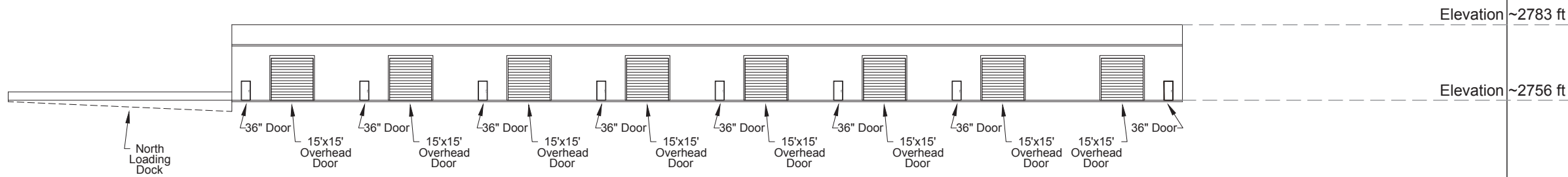
Warehouse - Front View Elevation - Looking SW



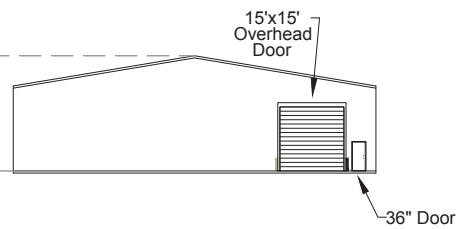
Warehouse - Side View Elevation - Looking SE



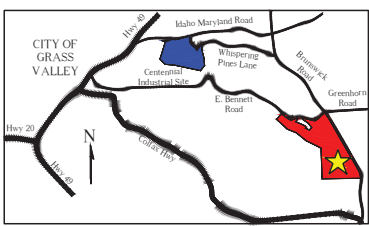
Warehouse - Rear View Elevation - Looking NE



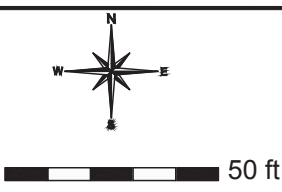
Warehouse - Side View Elevation - Looking NW



Idaho-Maryland Mine Project
Rise Grass Valley Inc.
PO Box 271
Grass Valley, California, USA 95945



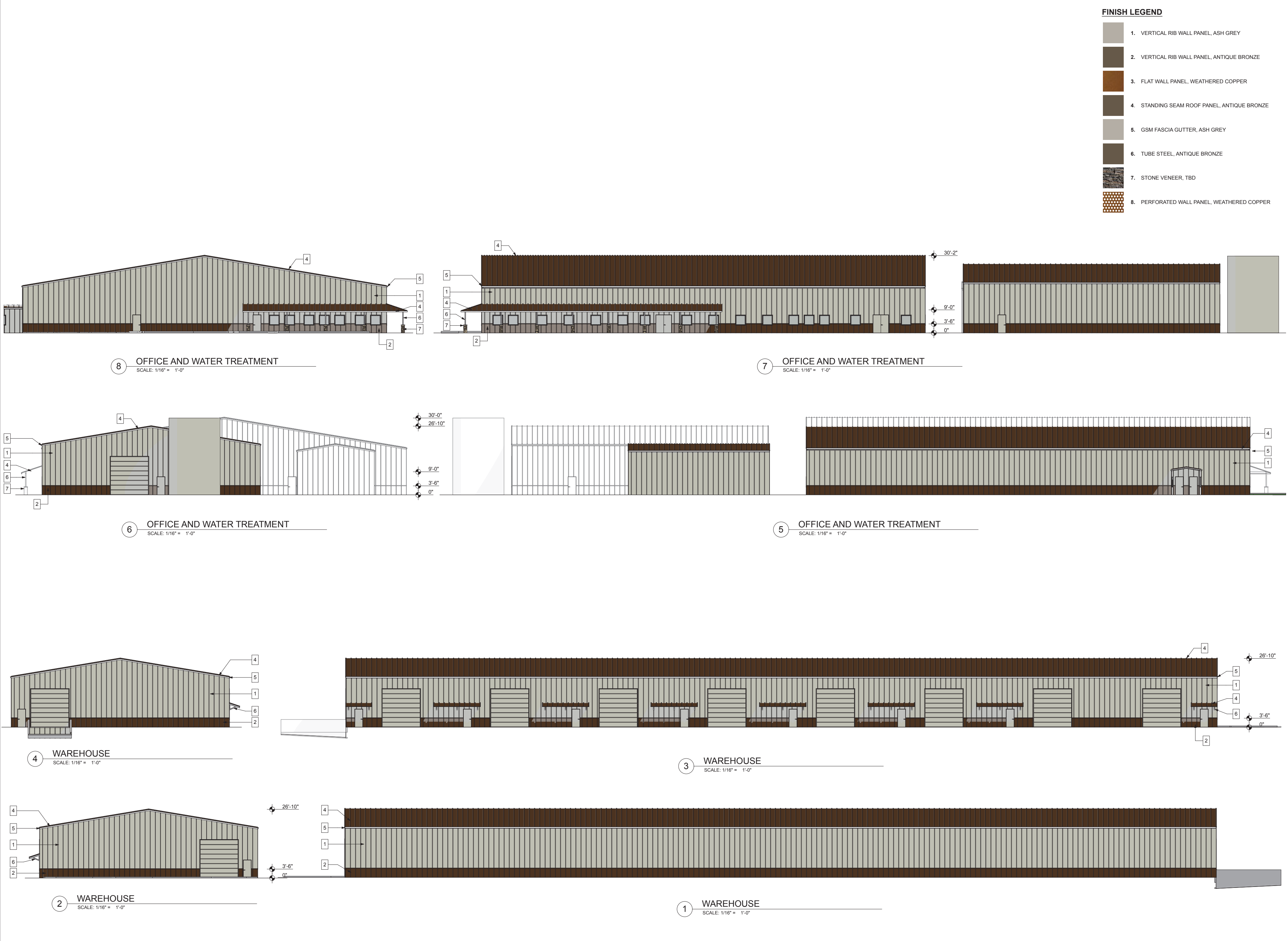
Brunswick Industrial Site
Nevada County, SEC. 31, T.16N, R.9E., M.D.M
Total Area = 118.93 Acres
Assessor Parcel Numbers:
09-630-37, 09-630-39, 09-441-03, 09-441-04,
09-441-05, 09-441-34
Current Zoning M1-SP / Proposed Zoning M1-ME



B303
R1
Brunswick Industrial Site
Warehouse Building
Building details and elevations

Drawnby : Rise Grass Valley - Feb 1 / 21 Scale : 1" = 30 feet

Users\Russell\Dropbox\Projects\Current\2020-27 Idaho Maryland Mine\Arch\CAD\Current\Idaho Maryland Mine Buildings.dwg





RUSSELL DAVIDSON
ARCHITECTURE + DESIGN

IDAHO-MARYLAND MINE
RISE GRASS VALLEY, INC.

12791 BRUNSWICK ROAD
GRASS VALLEY, CA 95945



ID	NAME	DATE

SUBMITTED:	DATE
SCALE	AS NOTED
DRAWN BY:	#Drawn By
CHECKED BY:	RPD
JOB:	#Pin

**BUILDING
ELEVATIONS**

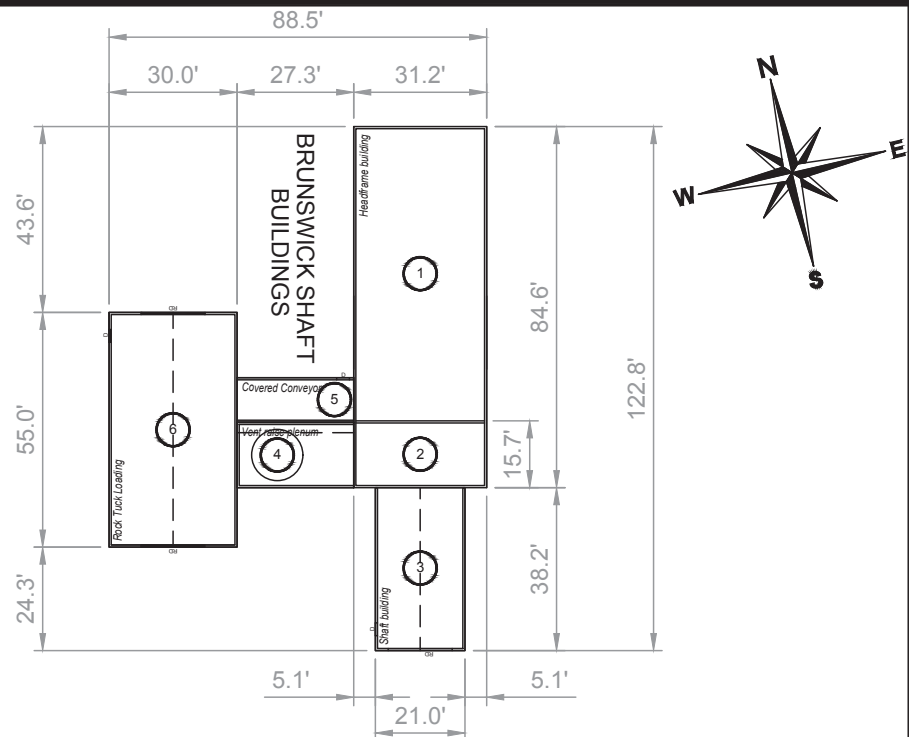
A2.1

Brunswick Shaft Buildings
~6,700 ft²

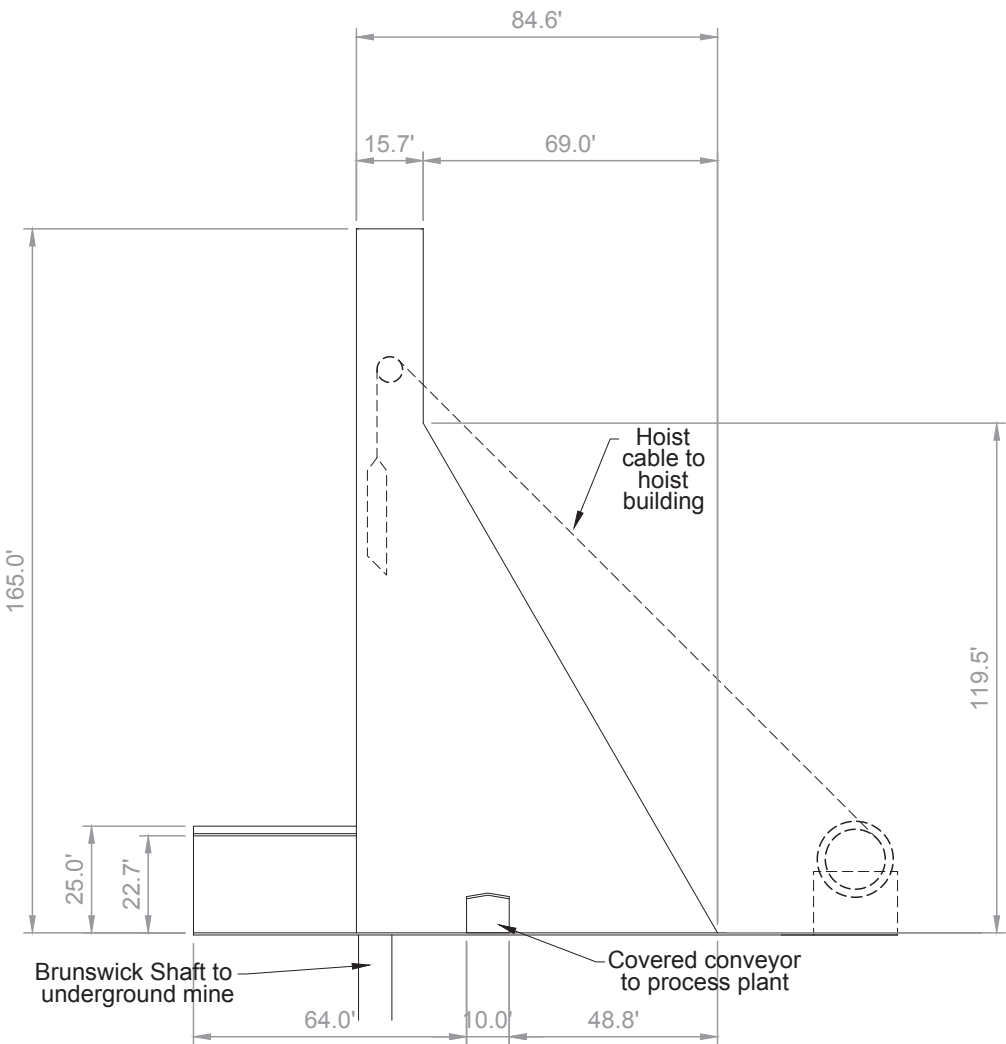
Brunswick Shaft used for hoisting rock from underground to surface, for exhaust ventilation from the underground mine, and for secondary/emergency escape of mine personnel.

- 1 Headframe over rock silo
~2,100 ft²
Steel structure of headframe constructed over existing concrete rock silo and building cladding encloses entire headframe. Headframe is a structure used to support hoisting cables to raise rock skips and cages from underground mine to surface. Rock skips transfer broken rock into concrete silo for temporary storage. Gold mineralization in silo is conveyed to process plant and barren rock is transferred to the truck loading building.
- 2 Headframe over shaft
~500 ft²
Exhaust ventilation air from underground mine is directed from the Brunswick shaft up through the headframe to the opening at the top of the headframe ~165 feet above surface.
- 3 Shaft Building
~700 ft²
Building attached to headframe building at shaft to provide mustering area for entering shaft conveyance. Doors of building to be well sealed and remain closed to force mine ventilation up headframe to exhaust.
- 4 Ventilation Raise Plenum
~400 ft²
Building covers parallel raise-bored ventilation shaft to underground mine and connects to headframe building to allow air to exhaust from headframe.
- 5 Covered Conveyor
~300 ft²
Building covers conveyor which transfers barren rock from the concrete silo to the truck loading building for loading of rock into trucks. Conveyor area separated from ventilation raise plenum by airtight wall.
- 6 Rock Truck Loading
~1,700 ft²
Building covers trucks during loading via conveyor. Bay doors on ends on each end of buildings allows one way travel of trucks through building.

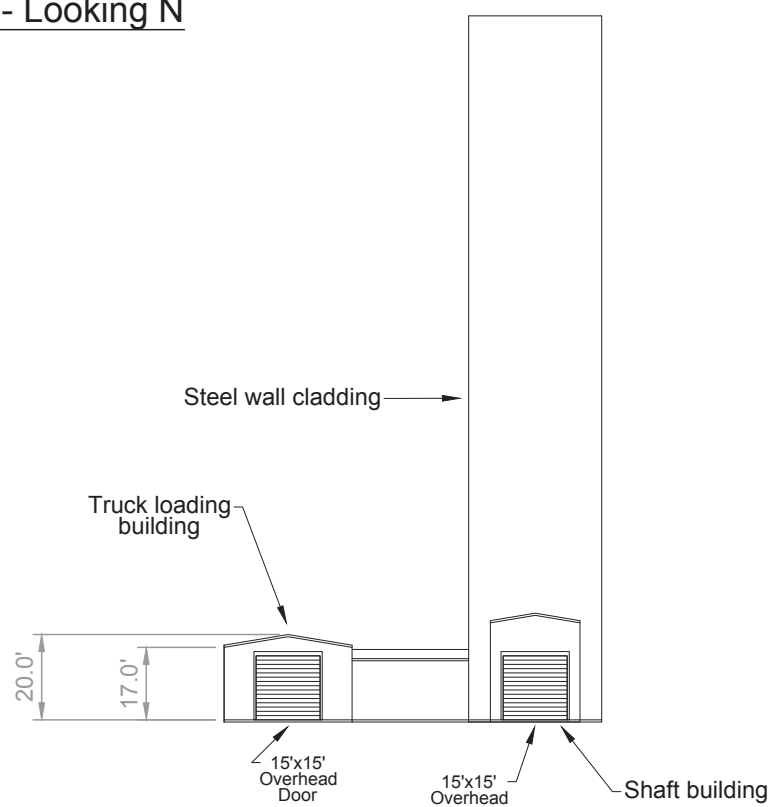
Brunswick Shaft
Plan View



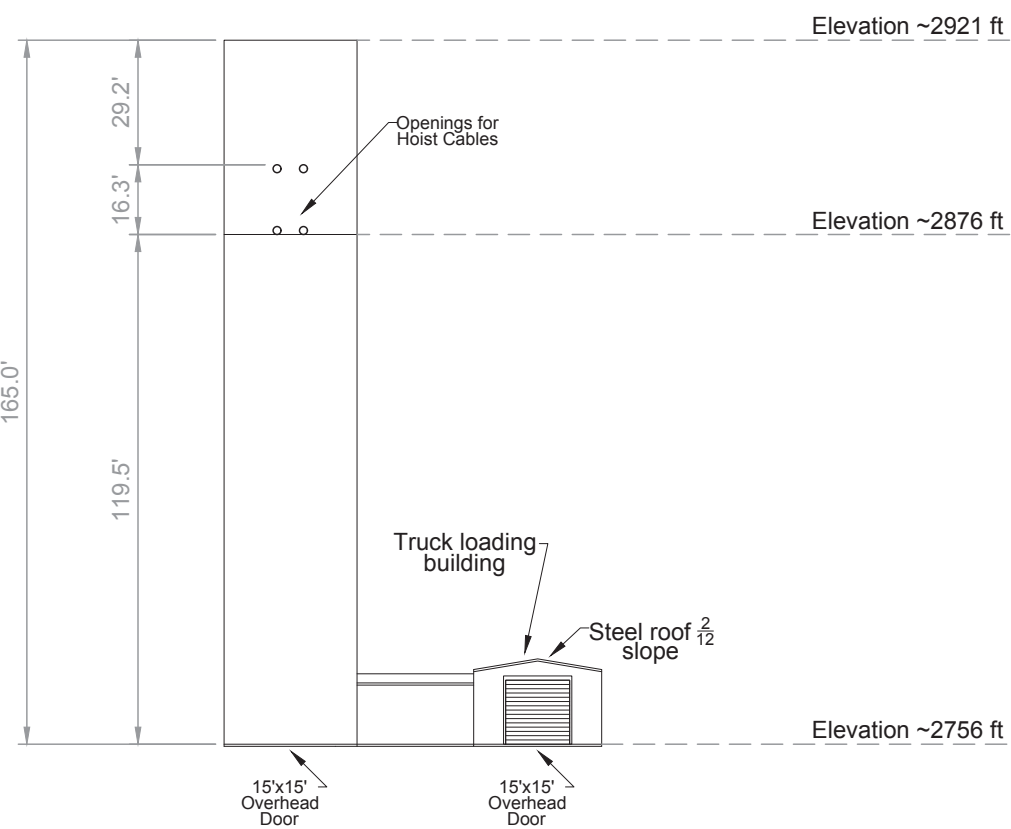
Brunswick Shaft
Side View - Looking W



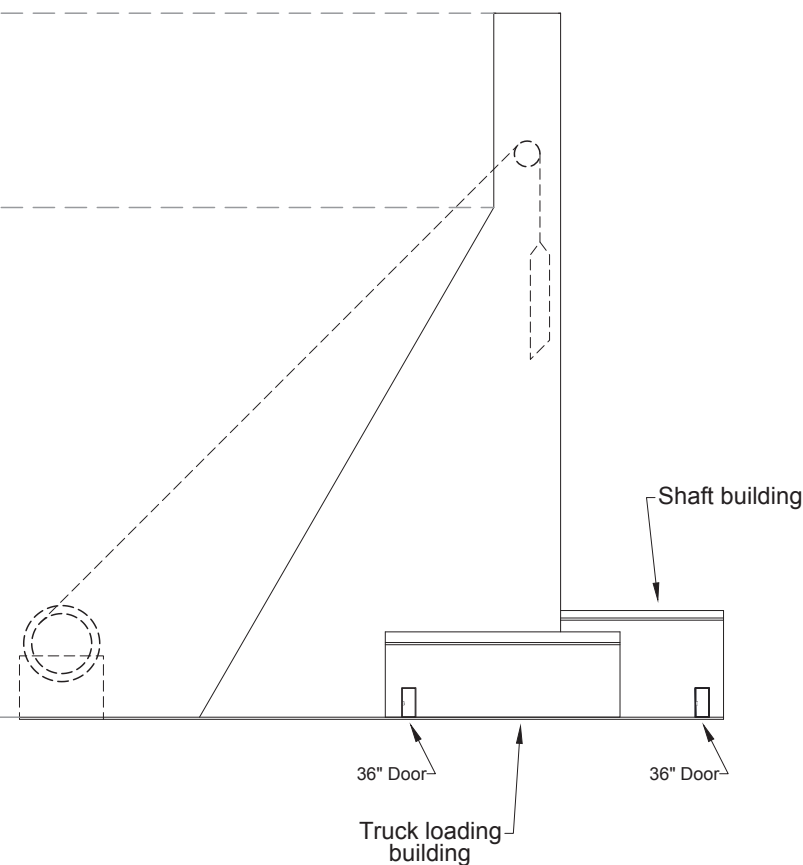
Brunswick Shaft
Front View - Looking N



Brunswick Shaft
Back View - Looking S



Brunswick Shaft
Side View - Looking E

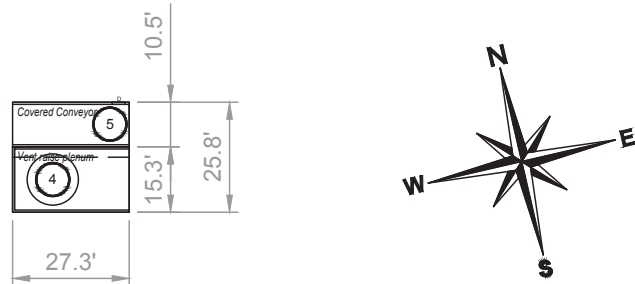


Building Notes

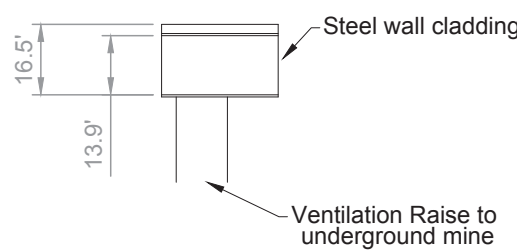
- Pre-engineered steel buildings.
- Buildings to have clear spans - No mid columns.
- Concrete slab floors with machinery foundations.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

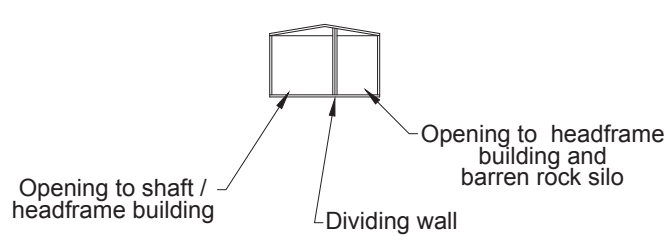
Conveyor & Ventilation Raise Building - Plan View



Conveyor Building - Front View
Looking N



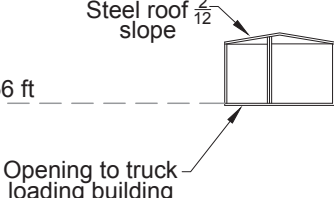
Conveyor Building - Front View
Looking W



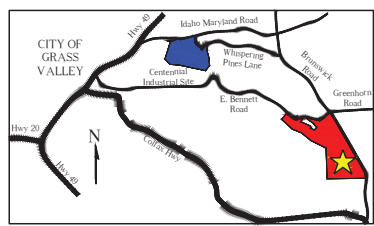
Conveyor Building - Back View
Looking S



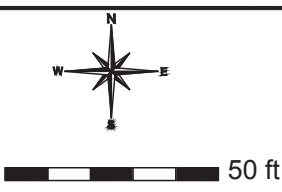
Conveyor Building - Front View
Looking E



Idaho-Maryland Mine Project
Rise Grass Valley Inc.
PO Box 271
Grass Valley, California, USA 95945



Brunswick Industrial Site
Nevada County, SEC. 31, T.16N, R.9E., M.D.M
Total Area = 118.93 Acres
Assessor Parcel Numbers:
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09-441-05, 09-441-34
Current Zoning M1-SP / Proposed Zoning M1-ME



B304
R1

Brunswick Industrial Site
Brunswick Shaft Buildings
Building details and elevations

Drawnby : Rise Grass Valley - Feb 1 / 21 Scale : 1" = 30 feet

Generator Building
~3,900 ft²

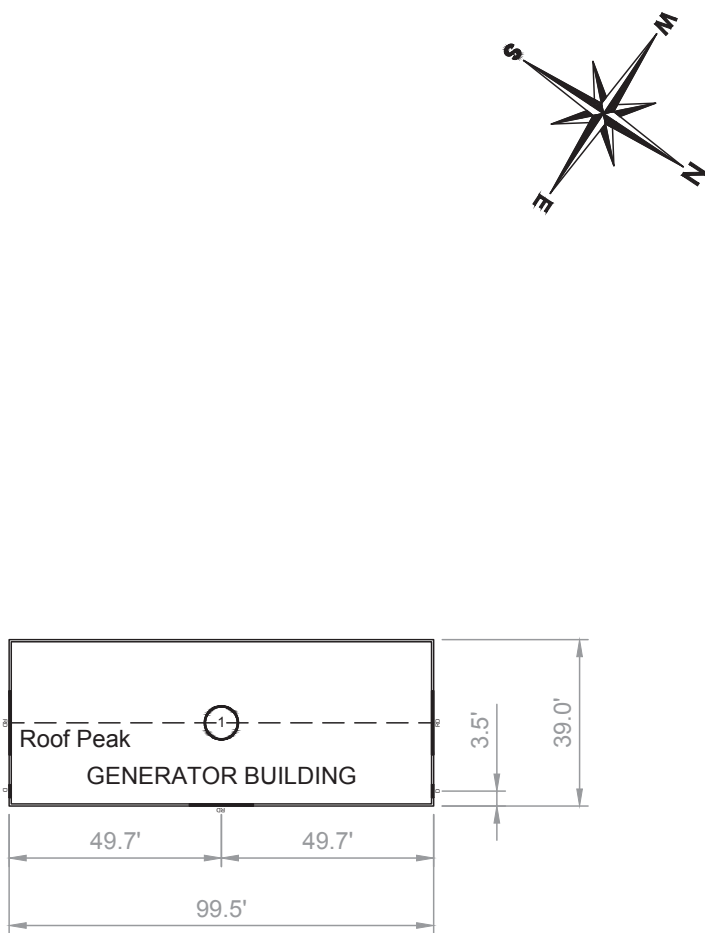
- 1 Generator Building
Building encloses 4 diesel generator sets with after-treatment units and total capacity of 8 MW. Generators used to supplement utility electricity and back-up for utility electricity supply disruption.

Building Notes

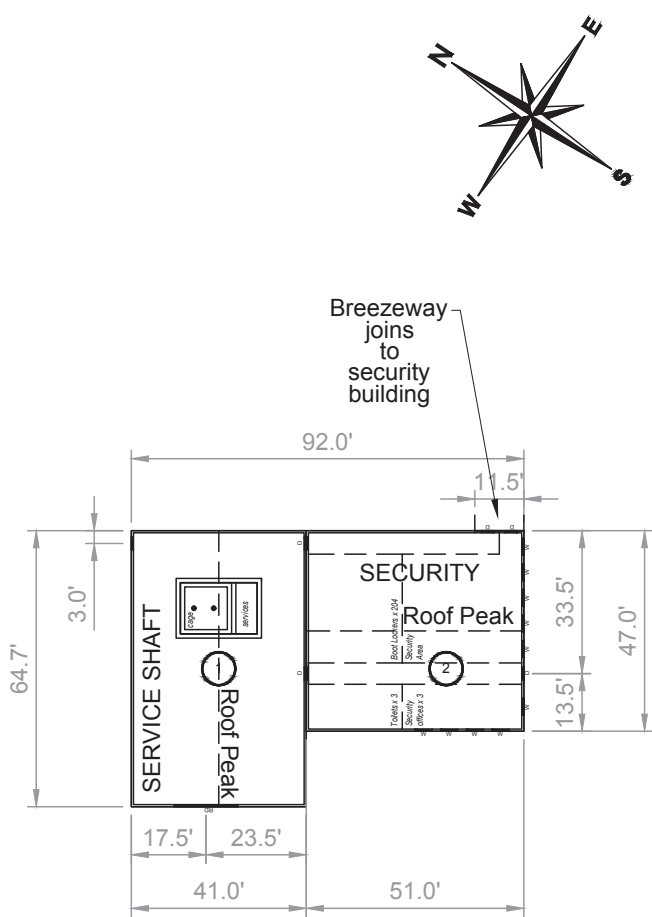
- Pre-engineered steel buildings.
- Buildings to clear span with no mid-columns.
- Concrete slab floors with machinery foundations, sumps, and catchments as necessary.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

Generator Building - Plan View



Service Shaft Buildings - Plan View



Service Shaft Buildings
~5,100 ft²

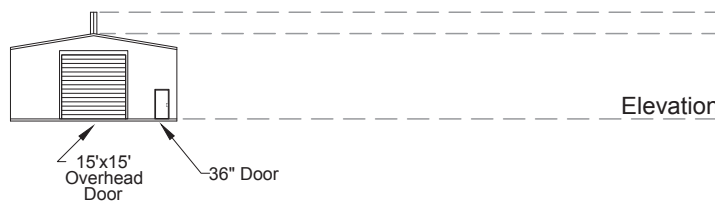
- Service Shaft used for transporting personnel, equipment, and materials from underground to surface and for fresh air intake ventilation to the underground mine.
- 1 Service Shaft
~2,700 ft²
Steel structure of headframe constructed over shaft and building cladding encloses entire headframe. Headframe is a structure used to support hoisting cables to raise cages from underground mine to surface. Shaft building provides area for mustering of personnel and materials. Fresh air is drawn into service shaft via opening in roof of service shaft headframe.
- 2 Security Building
~2,400 ft²
Security building provides control of persons accessing the service shaft from the mine office / dry building. Security building directly connected to Service Shaft buildings and to Changeroom / Office Building by breezeway. Security building hosts 3x toilets, locker area, and offices.

Building Notes

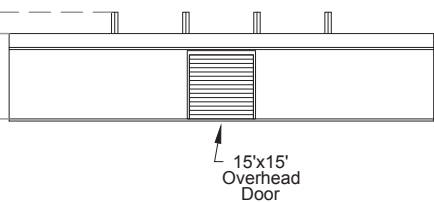
- Pre-engineered steel buildings.
- Buildings to have clear span and no mid-columns.
- Concrete slab floors.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

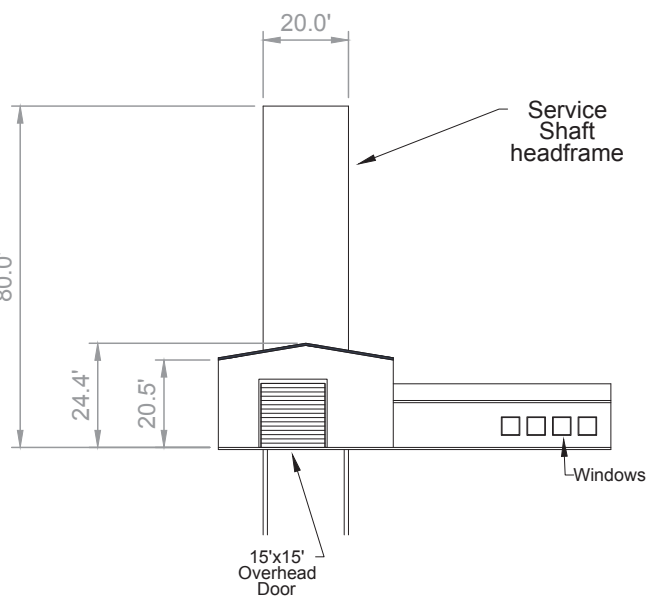
Generator Building - Side View Elevation - Looking NW



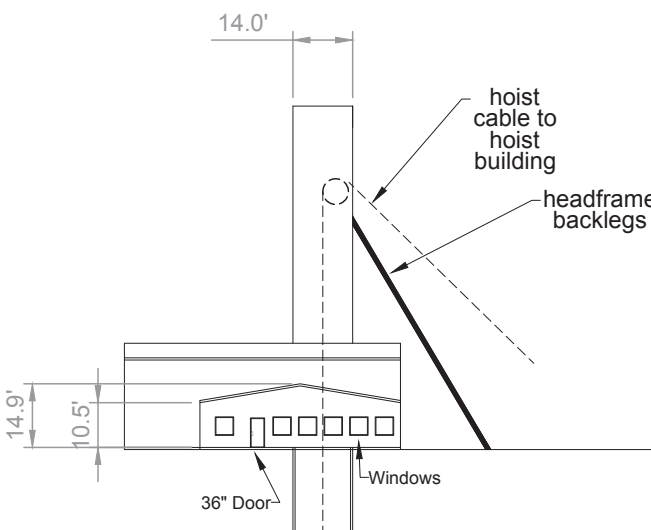
Generator Building - Front View Elevation - Looking SW



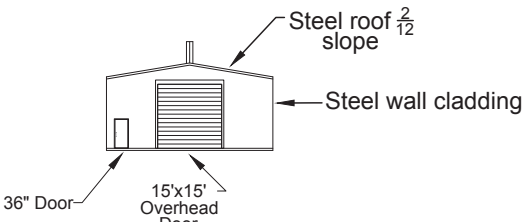
Service Shaft - Front View - Looking NE



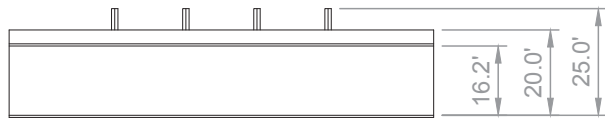
Service Shaft - Side View - Looking NW



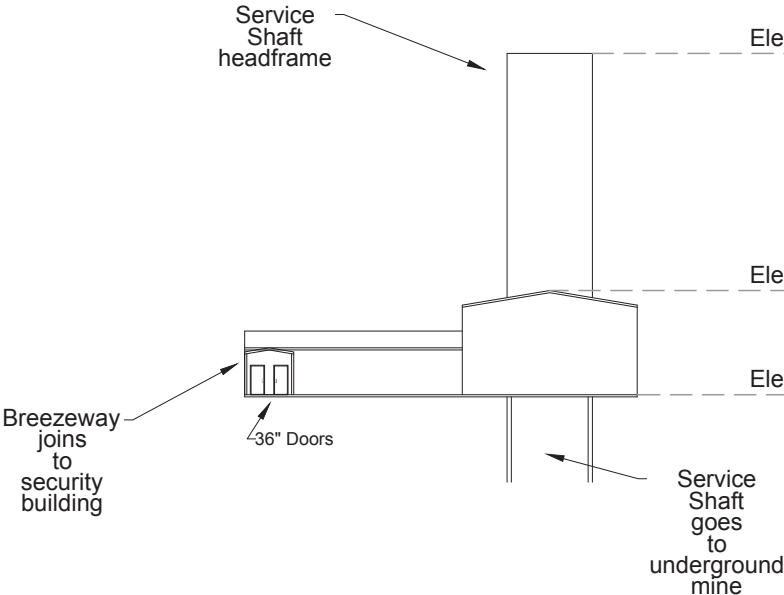
Generator Building - Side View Elevation - Looking SE



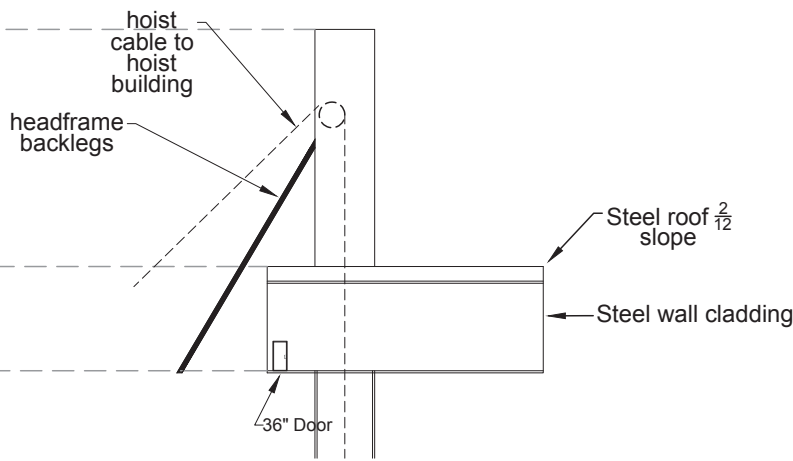
Generator Building - Rear View Elevation - Looking NE



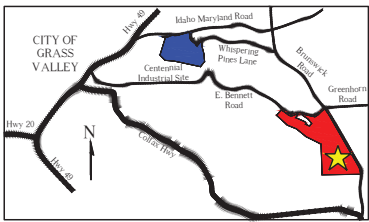
Service Shaft - Rear View - Looking SW



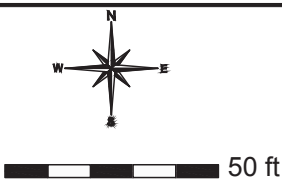
Service Shaft - Side View - Looking SE



R Idaho-Maryland Mine Project
Rise Grass Valley Inc.
PO Box 271
Grass Valley, California, USA 95945



Brunswick Industrial Site
Nevada County, SEC. 31, T.16N, R.9E., M.D.M
Total Area = 118.93 Acres
Assessor Parcel Numbers:
09-630-37, 09-630-39, 09-441-03, 09-441-04,
09-441-05, 09-441-34
Current Zoning M1-SP / Proposed Zoning M1-ME



B305 Brunswick Industrial Site
R1 Service Shaft & Generator Buildings
Building details and elevations

Drawnby : Rise Grass Valley - Feb 1 / 21 Scale : 1" = 30 feet

\\server\russell\Dropbox\Projects\Current\2020-27 Idaho Maryland Mine\Arch\CAD\Current\Idaho Maryland Mine Buildings.dgn



IDAHO-MARYLAND MINE
RISE GRASS VALLEY, INC.
12791 BRUNSWICK ROAD
GRASS VALLEY, CA 95945



ID	NAME	DATE

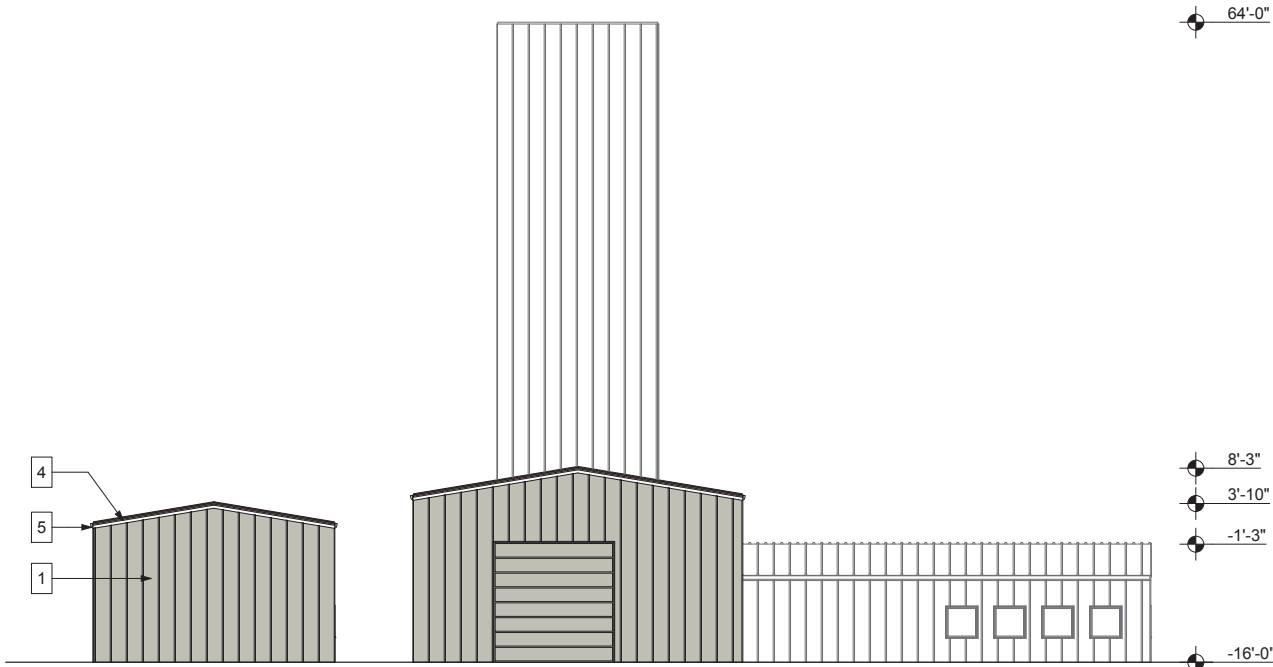
SUBMITTED:	DATE
SCALE	AS NOTED
DRAWN BY:	#Drawn By
CHECKED BY:	RPD
JOB:	#Pin

BUILDING
ELEVATIONS

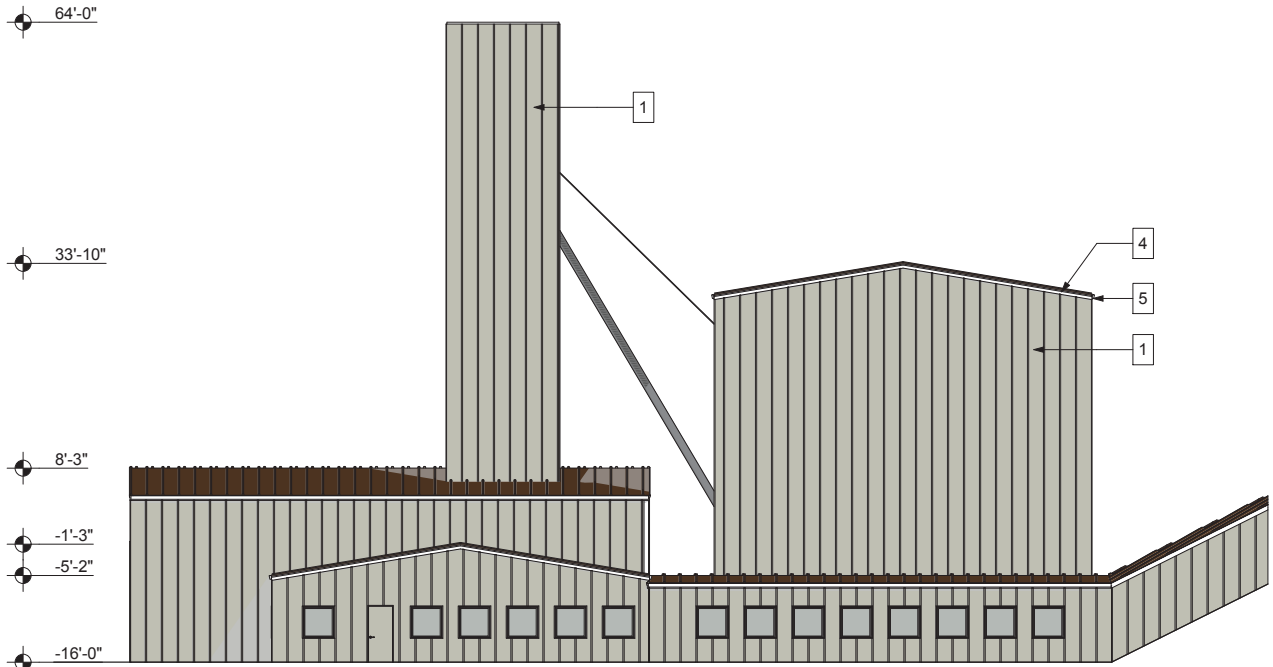
A2.2

FINISH LEGEND

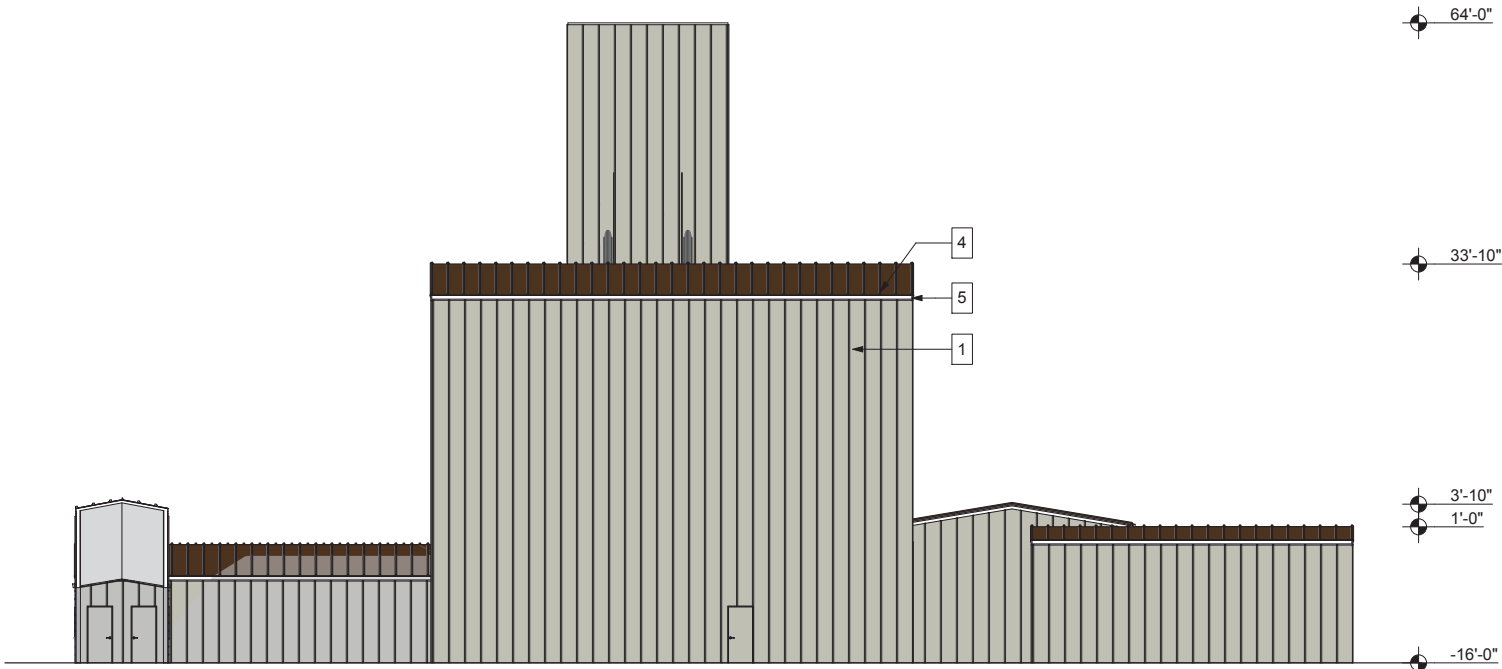
1. VERTICAL RIB WALL PANEL, ASH GREY
2. VERTICAL RIB WALL PANEL, ANTIQUE BRONZE
3. FLAT WALL PANEL, WEATHERED COPPER
4. STANDING SEAM ROOF PANEL, ANTIQUE BRONZE
5. GSM FASCIA GUTTER, ASH GREY
6. TUBE STEEL, ANTIQUE BRONZE
7. STONE VENEER, TBD
8. PERFORATED WALL PANEL, WEATHERED COPPER



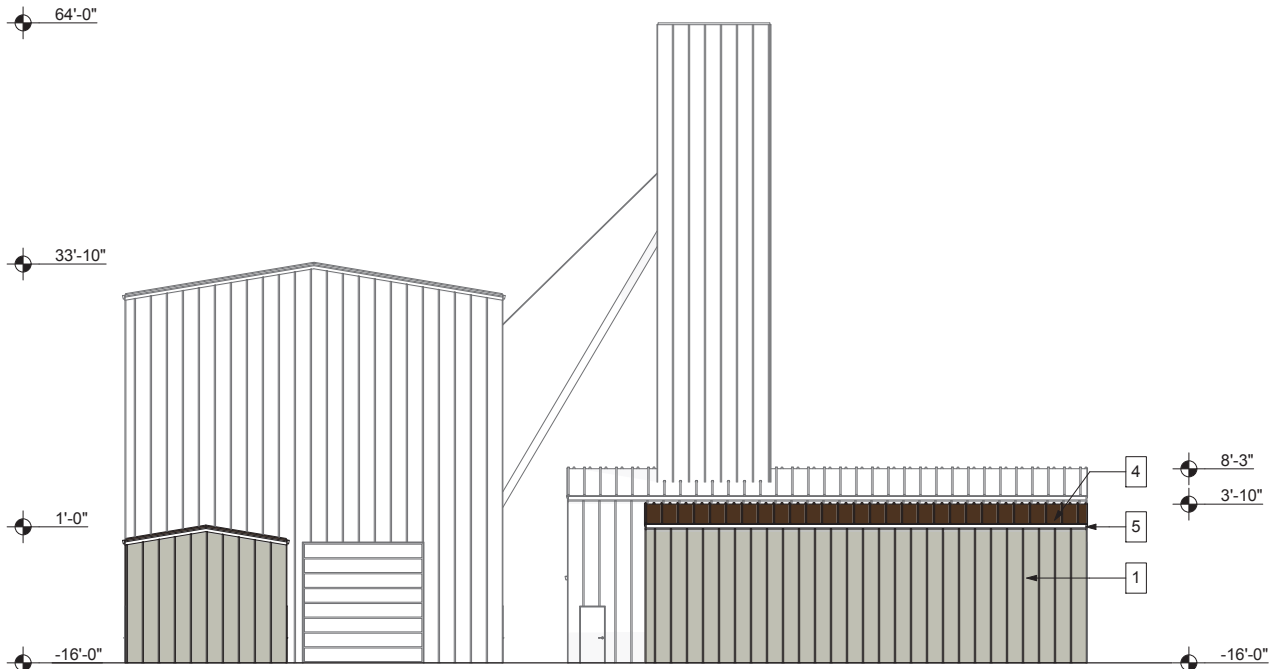
4 SERVICE SHAFT
SCALE: 1/16" = 1'-0"



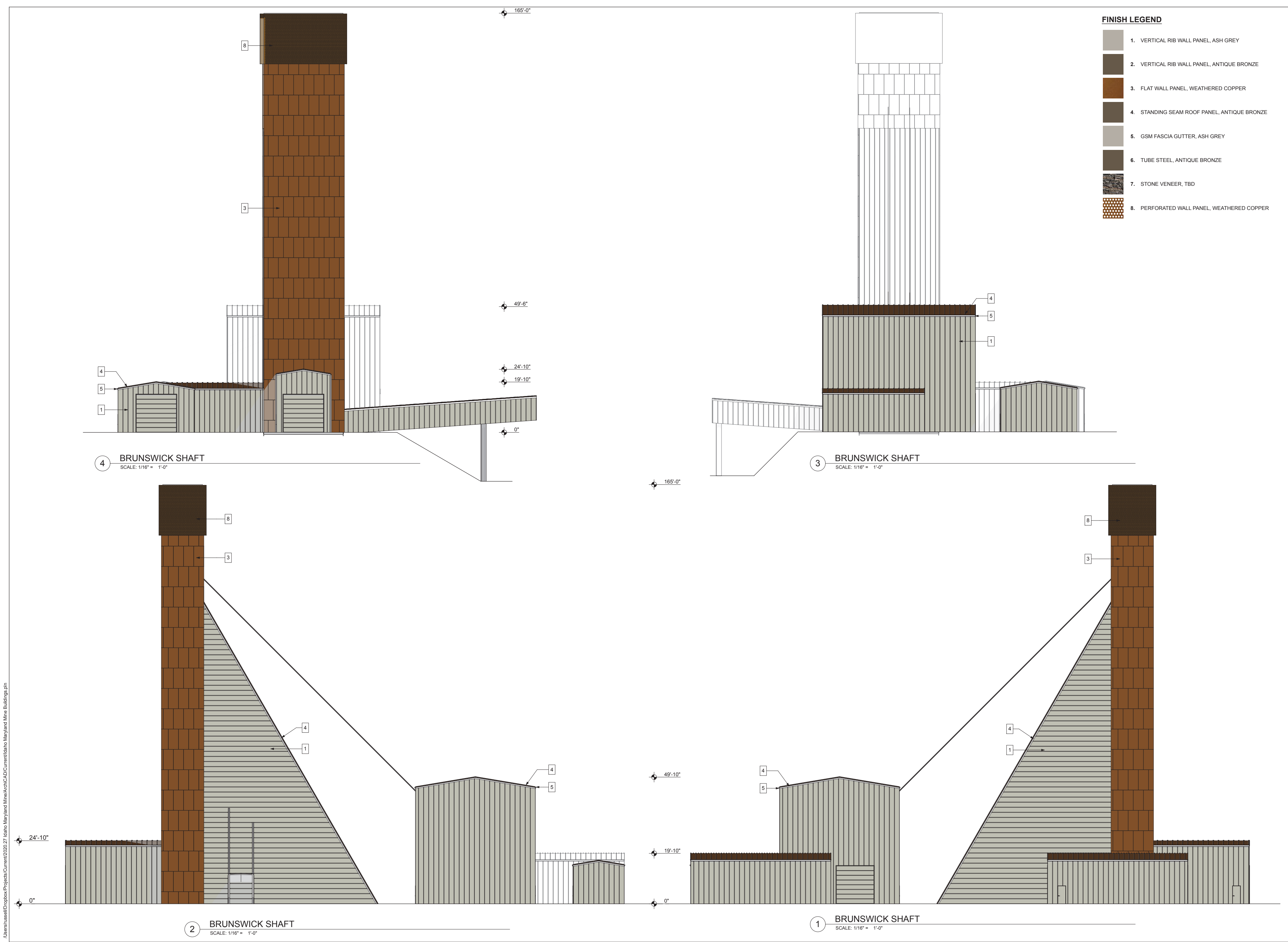
3 SERVICE SHAFT
SCALE: 1/16" = 1'-0"



2 SERVICE SHAFT
SCALE: 1/16" = 1'-0"



1 SERVICE SHAFT
SCALE: 1/16" = 1'-0"



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RUSSELL DAVIDSON
ARCHITECTURE + DESIGN

**IDAHO-MARYLAND MINE
RISE GRASS VALLEY, INC.**

12791 BRUNSWICK ROAD
GRASS VALLEY, CA 95945



ID	NAME	DATE

SUBMITTED:	DATE
SCALE	AS NOTED
DRAWN BY:	#Drawn By
CHECKED BY:	RPD
JOB:	#Pin

**BUILDING
ELEVATIONS**

A2.3

Machinery Buildings x 3
~1,600 ft² each = ~4,800 ft² total

Machinery buildings located as follows;
1) Brunswick Shaft for enclosure of mine air compressors
2) Water treatment plant for future uses (unallocated)
3) Service Shaft for future uses (unallocated)

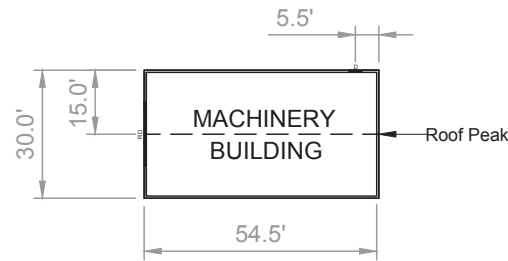
Electrical Buildings x 2
~800 ft² each = ~1,600 ft² total

Electrical buildings located as follows;
1) Brunswick Shaft for enclosure of electrical equipment
2) Service Shaft for enclosure of electrical equipment

Hoist Buildings x 2
~2,800 ft² each = ~5,600 ft² total

Hoist buildings for enclosure of mine hoists and associated equipment at each headframe. Hoist buildings located as follows;
1) Brunswick Shaft
2) Service Shaft

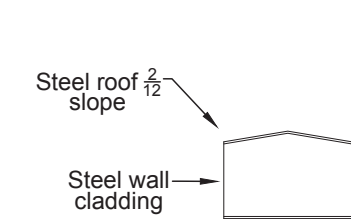
Machinery Building - Plan View



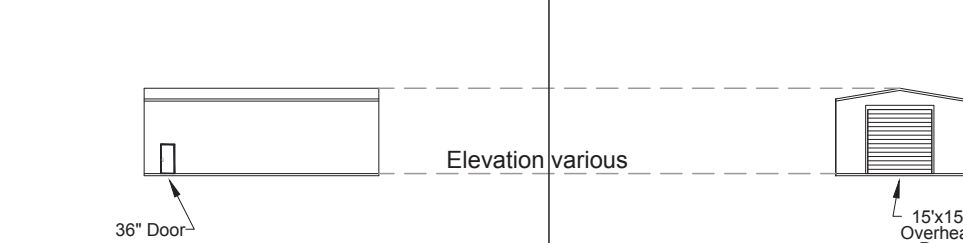
Machinery Building - Front View



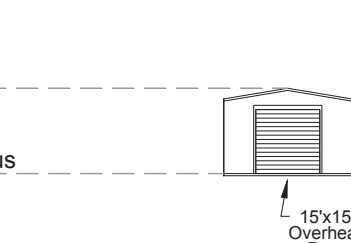
Machinery - Right Side View



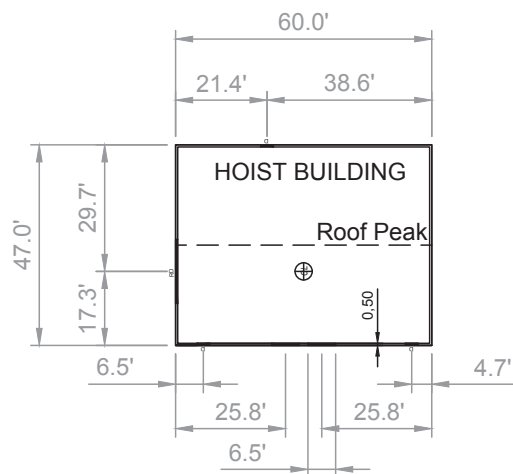
Machinery Building - Rear View



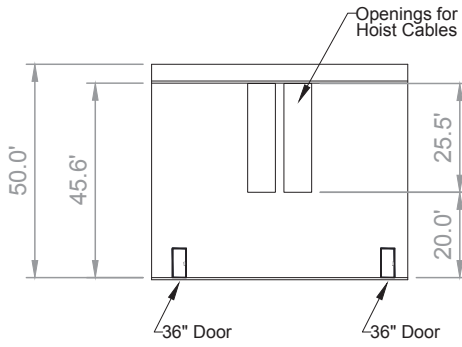
Machinery - Left Side View



Hoist Building - Plan View



Hoist Building -Front View

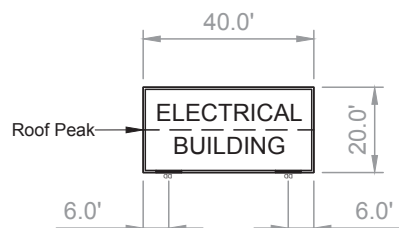


Building Notes

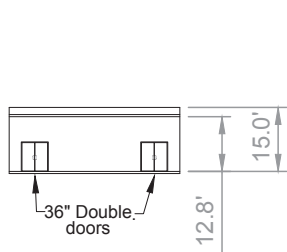
- Pre-engineered steel buildings.
- Buildings to have clear spans - No mid columns.
- Concrete slab floors with machinery foundations.
- Steel cladding on roofs and walls.
- Non-reflective / non metallic paint.

Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

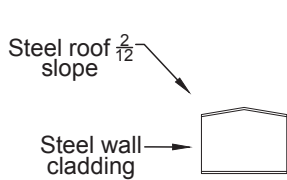
Electrical Building - Plan View



Electrical Building - Front View



Electrical - Right Side View



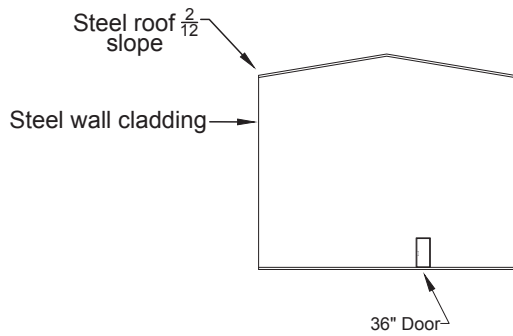
Electrical Building - Rear View



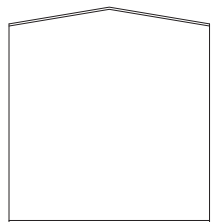
Electrical - Left Side View



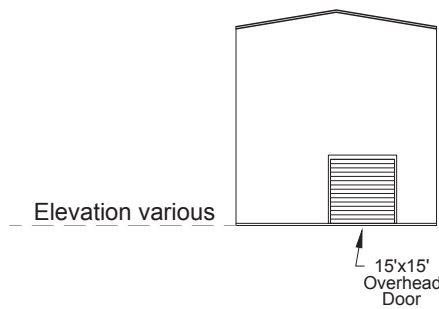
Hoist Building -Rear View



Hoist Building -Right Side View



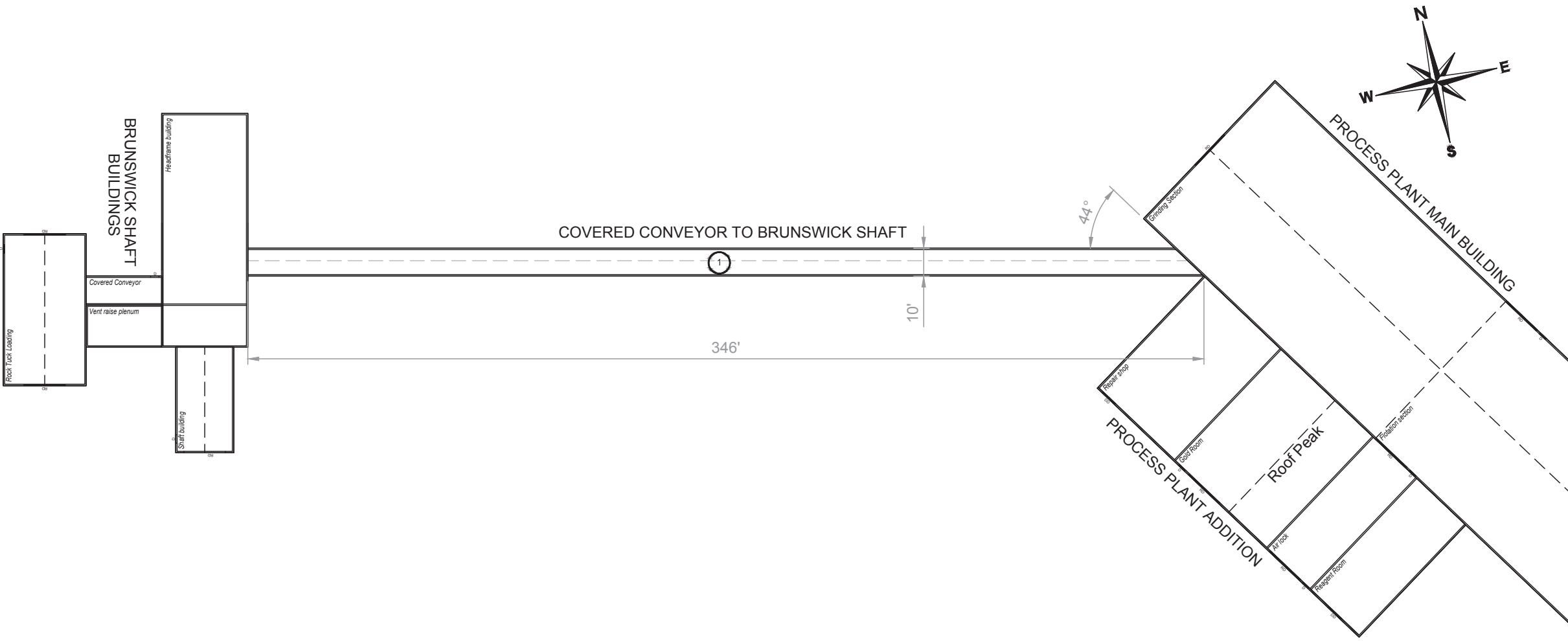
Hoist Building -Left Side View



Covered Conveyor
~3,400 ft²

1 Covered Conveyor
Conveyor transfers gold mineralization from Brunswick shaft silo into grinding section of process plant. Conveyor fully enclosed.

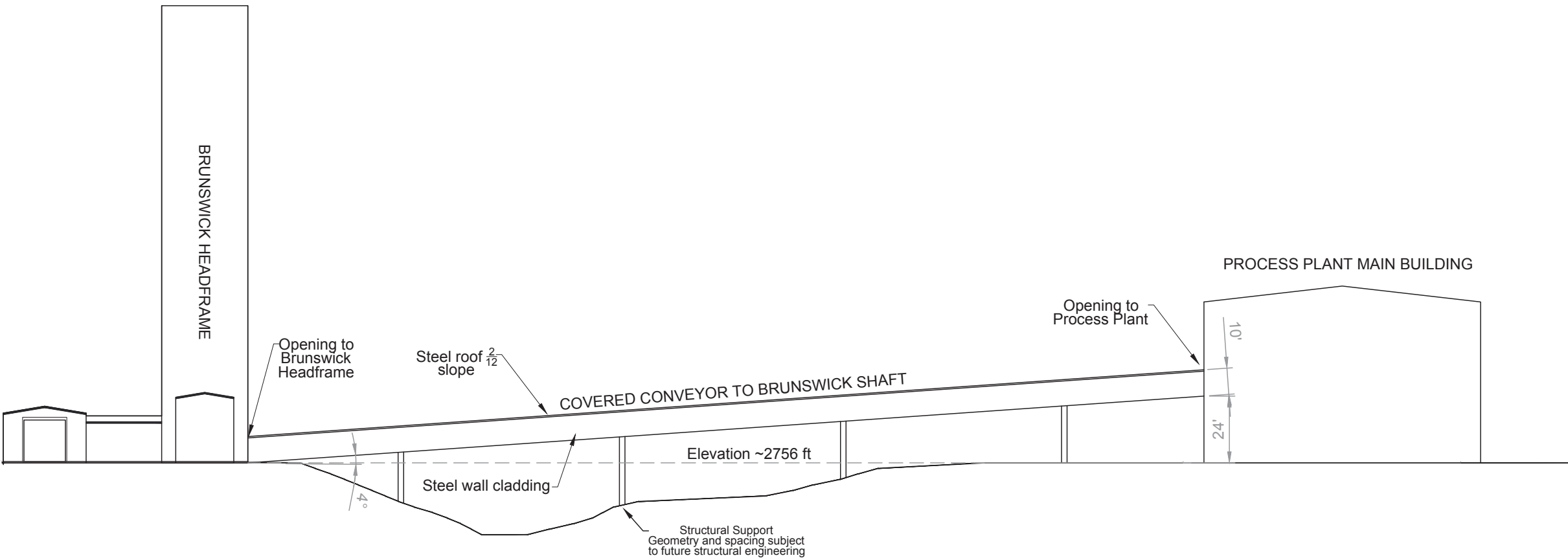
Covered Conveyor - Plan View



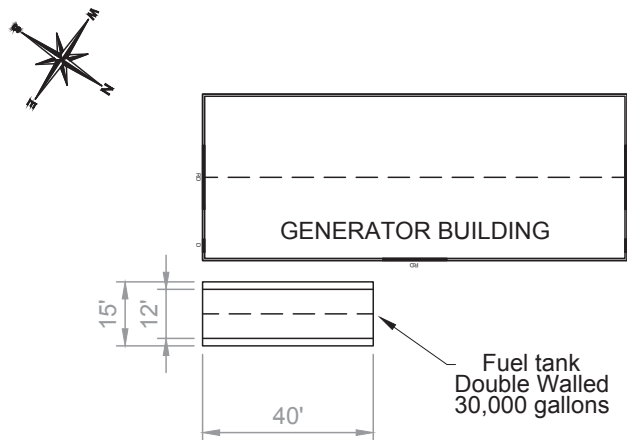
- Building Notes
- Pre-engineered steel buildings.
 - Buildings to have clear spans - No mid columns.
 - Concrete slab floors with machinery foundations, sumps, and catchments as necessary.
 - Steel cladding on roofs and walls.
 - Non-reflective / non metallic paint.

Color and Architectural Details shown separately on Russell Davidson Architecture Drawings

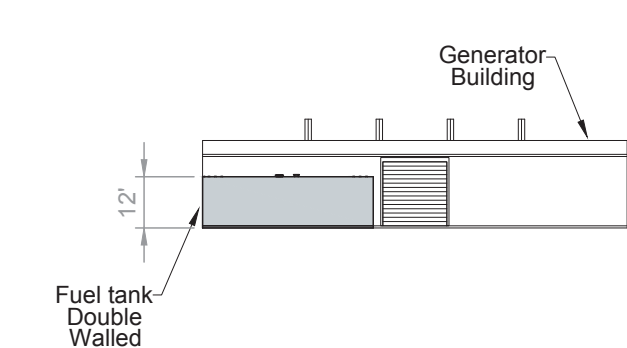
Covered Conveyor - Front View Elevation - Looking NE



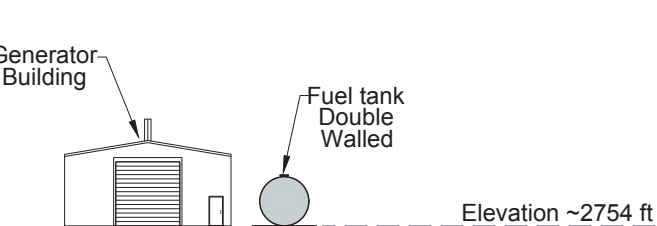
Fuel Tank - Plan View



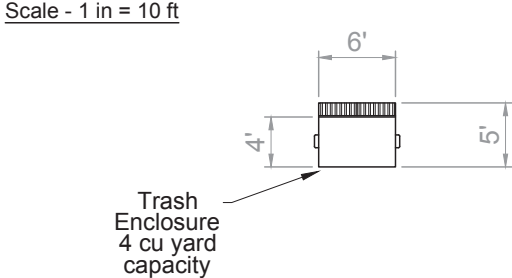
Fuel Tank - Front View - Looking SW



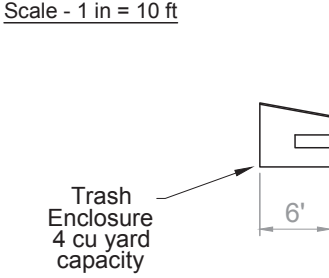
Fuel Tank - Side View - Looking NW



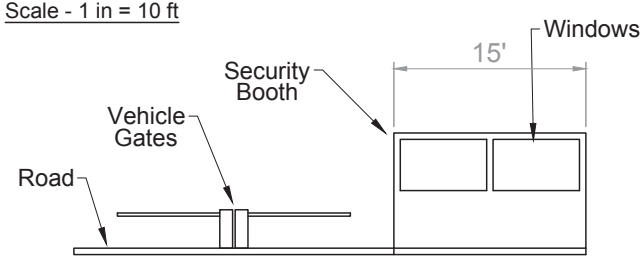
Trash Enclosure - Front View



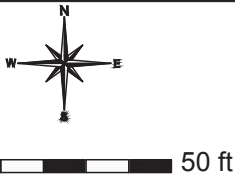
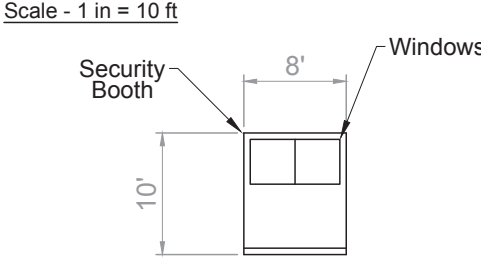
Trash Enclosure - Side View



Security Gate - Front View



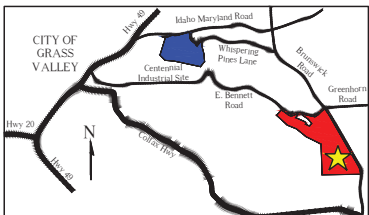
Security Gate - Side View



B307_{R1} Brunswick Industrial Site
Covered Conveyor, Fuel Tank, Security Gate & Trash Enclosure
Building details and elevations

Drawnby : Rise Grass Valley - Feb 1 / 21 Scale : 1" = 30 feet

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