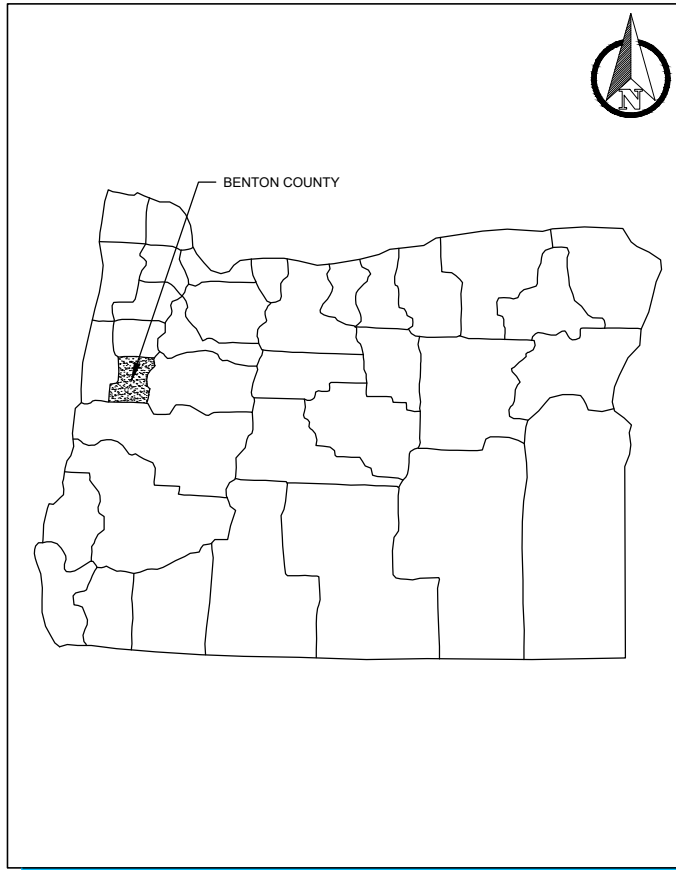


APPENDIX A

SITE DEVELOPMENT PLAN DRAWINGS

N:\COFFIN BUTTE\201211 - SITE DEVELOPMENT PLAN (SDP)\15_ENGINEERING\1_CIVILDRAWINGS\G01 TITLE SHEET.DWG December 30, 2021 - 4:19 PM BY: CLA USER

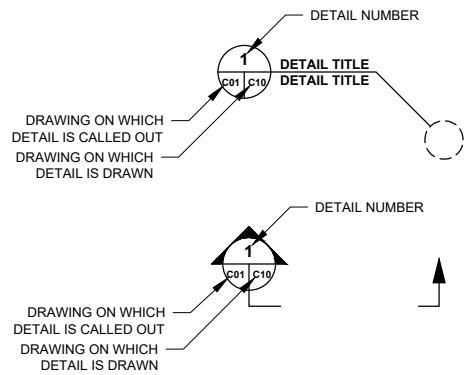


OREGON COUNTIES

ABBREVIATIONS

CL	CENTERLINE	MIN	MINIMUM
Ø	DIAMETER	N	NORTHING
E	EASTING	NIS	NOT IN SECTION
EL	ELEVATION	NTS	NOT TO SCALE
FT	FEET	OC	ON CENTER
GCL	GEOSYNTHETIC CLAY LINER	oz	OUNCE
HDPE	HIGH DENSITY POLYETHYLENE	%	PERCENT
MAX	MAXIMUM	TYP	TYPICAL

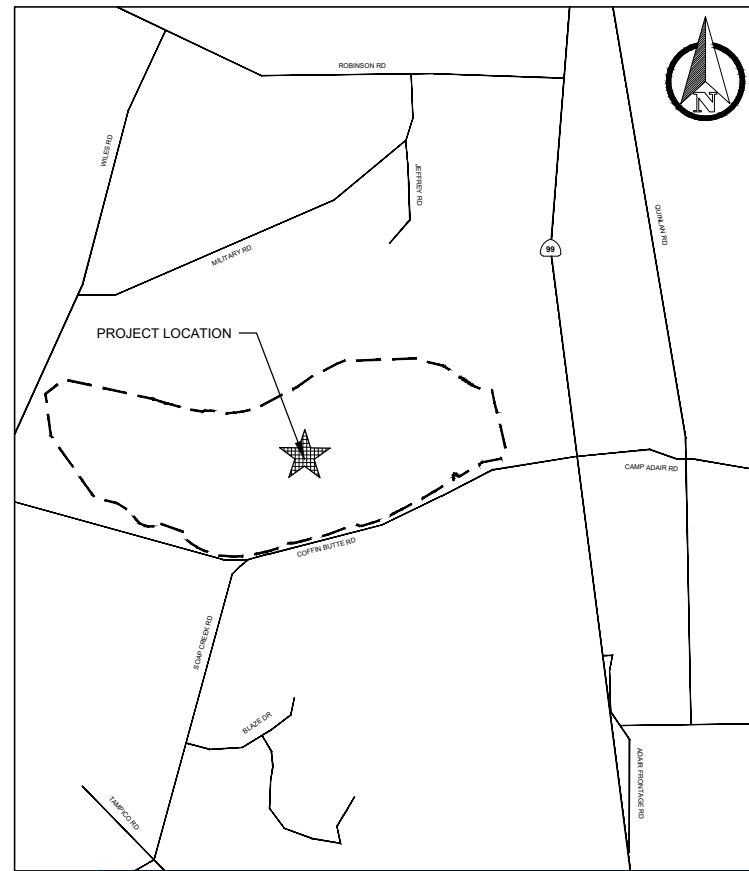
SYMBOLS



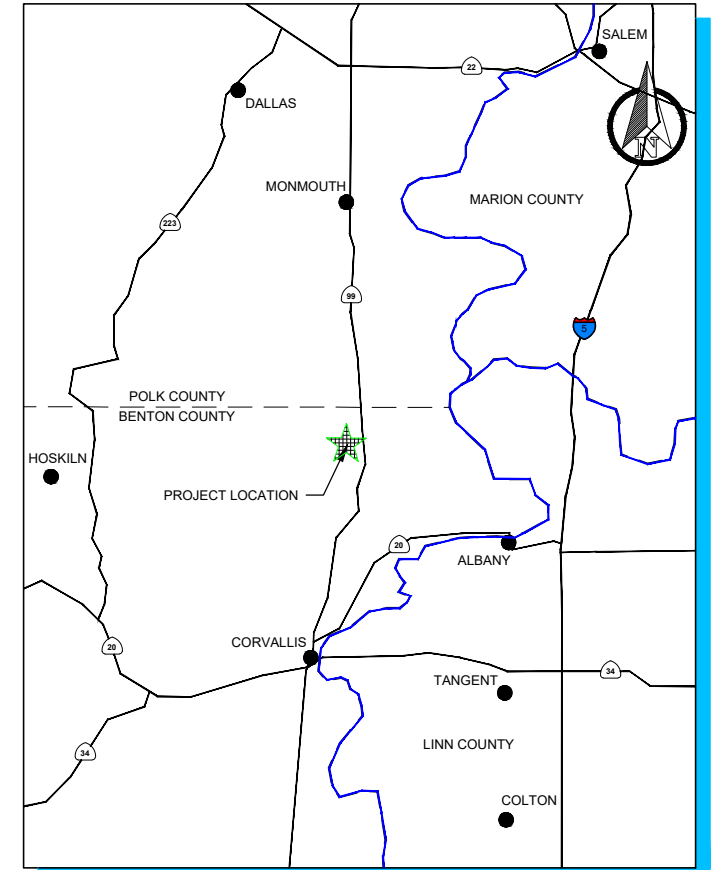
COFFIN BUTTE LANDFILL SITE DEVELOPMENT PLAN

PREPARED FOR:

VALLEY LANDFILLS, INC.



VICINITY MAP



REGIONAL MAP

DRAWING INDEX

DRAWING NUMBER	TITLE AND DESCRIPTION	LATEST REVISION NUMBER	LATEST REVISION DATE
GENERAL			
G01	TITLE SHEET	0	12/30/21
G02	SITE PLAN & EXISTING CONDITIONS	0	12/30/21
G03	LANDFILL ZONING	0	12/30/21
GW-1	MAXIMUM ESTIMATED GROUNDWATER CONTOURS	0	12/30/21
GW-2	GEOLOGIC CROSS SECTIONS	0	12/30/21
CIVIL			
C01	CELL 5E EXCAVATION	0	12/30/21
C02	CELL 6A EXCAVATION & CELL 5 FILL	0	12/30/21
C03	CELL 6B EXCAVATION & CELL 6A FILL	0	12/30/21
C04	CELL 6B FILL & CELL 6C SHINGLE	0	12/30/21
C05	CELL 6C FILL & CELL 6D SHINGLE	0	12/30/21
C06	CELL 6D FILL & CELL 6E SHINGLE AND ASBESTOS AREA	0	12/30/21
C07	CELL 6E FILL & CELL 6F SHINGLE	0	12/30/21

DRAWING NUMBER	TITLE AND DESCRIPTION	LATEST REVISION NUMBER	LATEST REVISION DATE
C08	CELL 6F FILL & CELL 6G SHINGLE	0	12/30/21
C09	CELL 6G FILL & CELL 6H SHINGLE	0	12/30/21
C10	CELL 6H FILL & CELL 6I SHINGLE	0	12/30/21
C11	CELL 6I FILL	0	12/30/21
C12	TOP OF INTERIM WASTE & CLOSURE PLAN	0	12/30/21
C13	FINAL COVER & DRAINAGE PLAN	0	12/30/21
C14	LEACHATE COLLECTION PLAN	0	12/30/21
C15	CROSS SECTIONS	0	12/30/21
C16	CROSS SECTIONS	0	12/30/21
C20	DETAILS - LINER SYSTEM	0	12/30/21
C21	DETAILS - LINER SYSTEM	0	12/30/21
C22	DETAILS - LINER SYSTEM	0	12/30/21
C23	DETAILS - SHINGLE FILL	0	12/30/21
C24	DETAILS - FINAL COVER	0	12/30/21

NOTES
1. PIPE BENDS AND GEOSYNTHETICS ARE SHOWN NTS.

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0	12/30/21	ISSUED AS 2021 PERMIT UPDATE	AO

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APPROVED BY:	AO



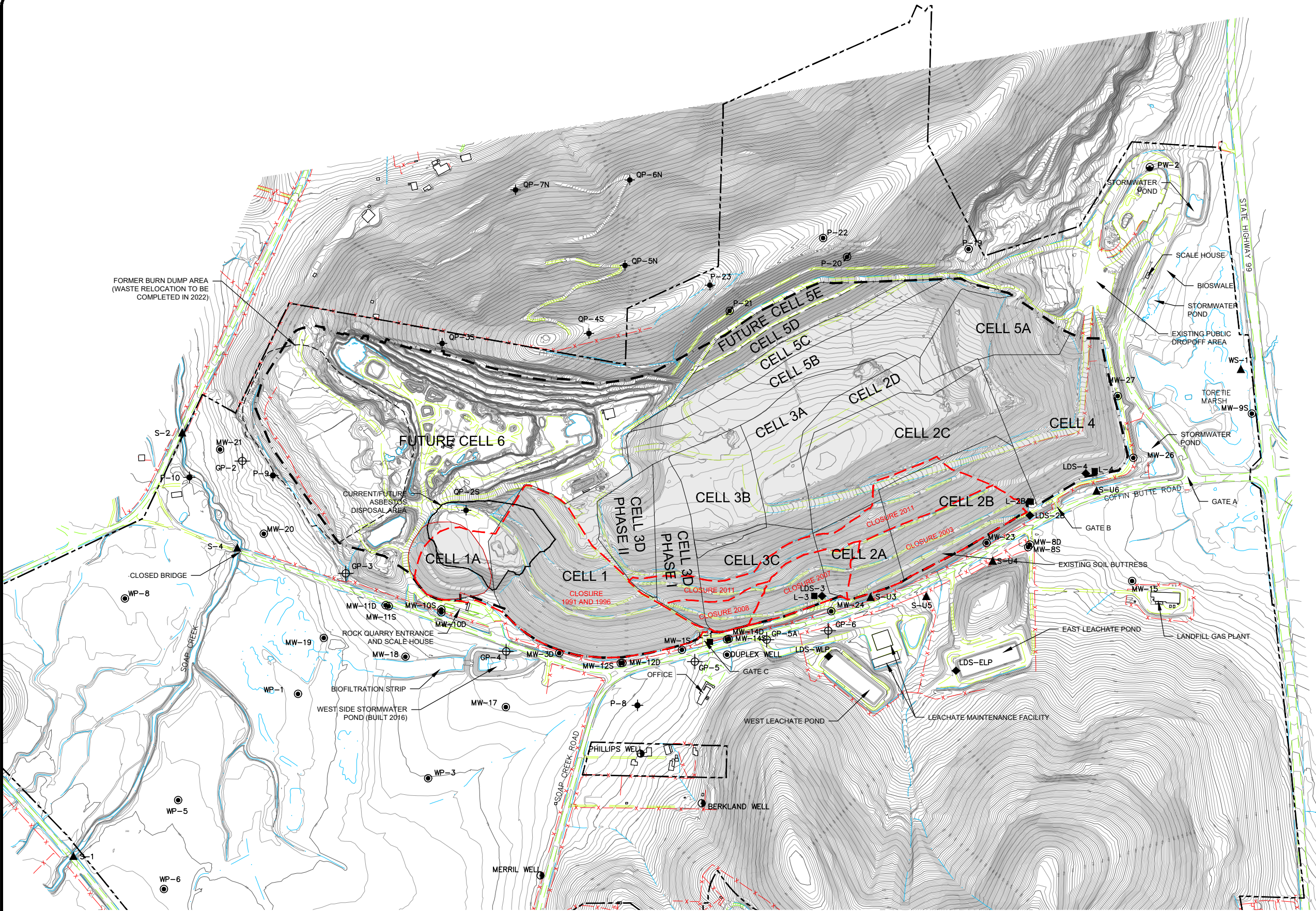
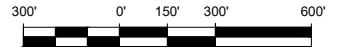
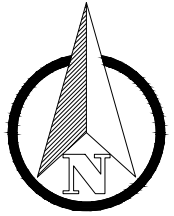
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VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
BENTON COUNTY, OREGON
TITLE SHEET

DRAWING NO.
G01
PROJECT NO.
AU20.1210



LEGEND

— 300 —	EXISTING 10' CONTOUR ⁽¹⁾
— 2' —	EXISTING 2' CONTOUR ⁽¹⁾
-x-x-	EXISTING FENCE
—	EXISTING PAVED ROAD
---	EXISTING UNPAVED ROAD
---	EXISTING DRAINAGE
•	EXISTING POWER/UTILITY POLE
*	EXISTING LIGHT POLE
---	PROPERTY LINE
---	PERMITTED LANDFILL FOOTPRINT
---	EXISTING CELL BOUNDARY
---	FUTURE CELL BOUNDARY
---	EXISTING CLOSURE AREA
---	EXISTING LANDFILL USE
●	GROUNDWATER MONITORING WELL / PIEZOMETER
●	LANDFILL WATER SUPPLY WELL
●	OBSERVATION WELL / PIEZOMETER
●	PRIVATE WELL
▲	SURFACE WATER MONITORING POINT
▲	LEACHATE SUMP
◆	LEAK DETECTION SYSTEM
⊕	GAS PROBE

LANDFILLING STATUS 2021:

CELLS 1 & 2	FILLED
CELLS 2, 3, 4, & 5A, 5B, 5C, 5D	ACTIVE
CELLS 5E, 6A-6I	FUTURE

- NOTES**
- REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
 - WASTE FILL VOLUMES EXCLUDE UNDERDRAIN, SLCRS, PLCS, AND OPERATIONS SOIL VOLUMES.

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 CHECKED BY: JVR
 APPROVED BY: AO



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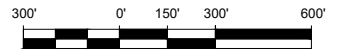
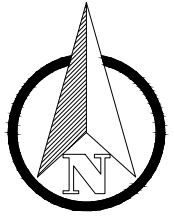
VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
SITE PLAN & EXISTING CONDITIONS

DRAWING NO.
G02
 PROJECT NO.
 AU20.1210

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\J.S. ENGINEERING\1. CIVIL\DRAWINGS\G02 EXISTING SITE PLAN.DWG December 29, 2021 - 3:13 PM BY: GLA USER



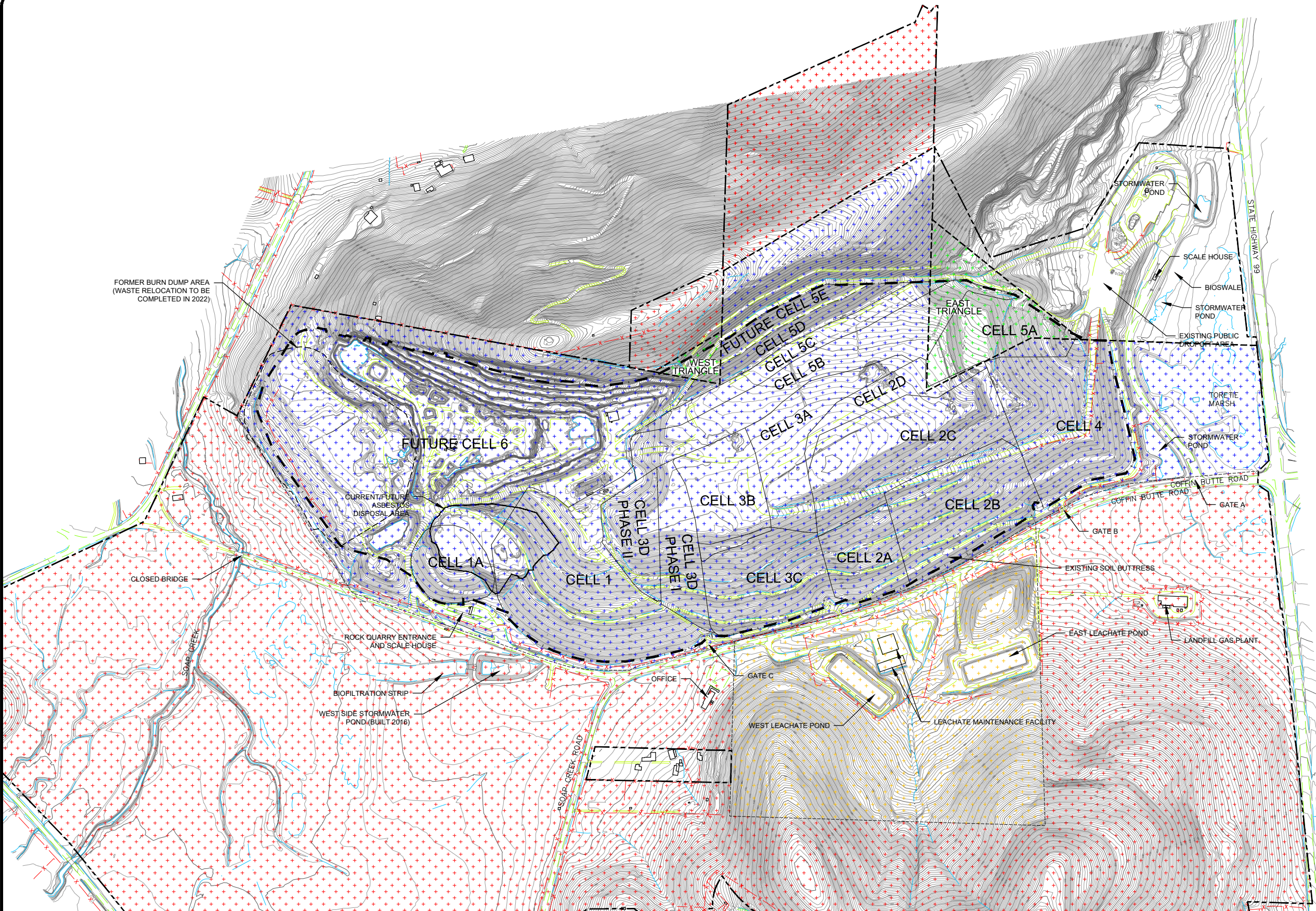
LEGEND

- 300 — EXISTING 10' CONTOUR⁽¹⁾
- 2' — EXISTING 2' CONTOUR⁽¹⁾
- x - x - EXISTING FENCE
- — EXISTING PAVED ROAD
- — EXISTING UNPAVED ROAD
- — EXISTING DRAINAGE
- — EXISTING LINER LIMITS
- EXISTING POWER/UTILITY POLE
- * EXISTING LIGHT POLE
- — PROPERTY LINE
- — PERMITTED LANDFILL FOOTPRINT
- — EXISTING CELL BOUNDARY
- — FUTURE CELL BOUNDARY
- — LANDFILL ZONE - NORTH OF COFFIN BUTTE ROAD
- — LANDFILL ZONE - NON-DISPOSAL AREAS
- — OTHER LAND OWNED BY VALLEY LANDFILLS
- — CONDITIONAL USE PERMIT FOR LANDFILLING

NOTES

1. REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
2. WASTE FILL VOLUMES EXCLUDE UNDERDRAIN, SLCRS, PLCS, AND OPERATIONS SOIL VOLUMES.

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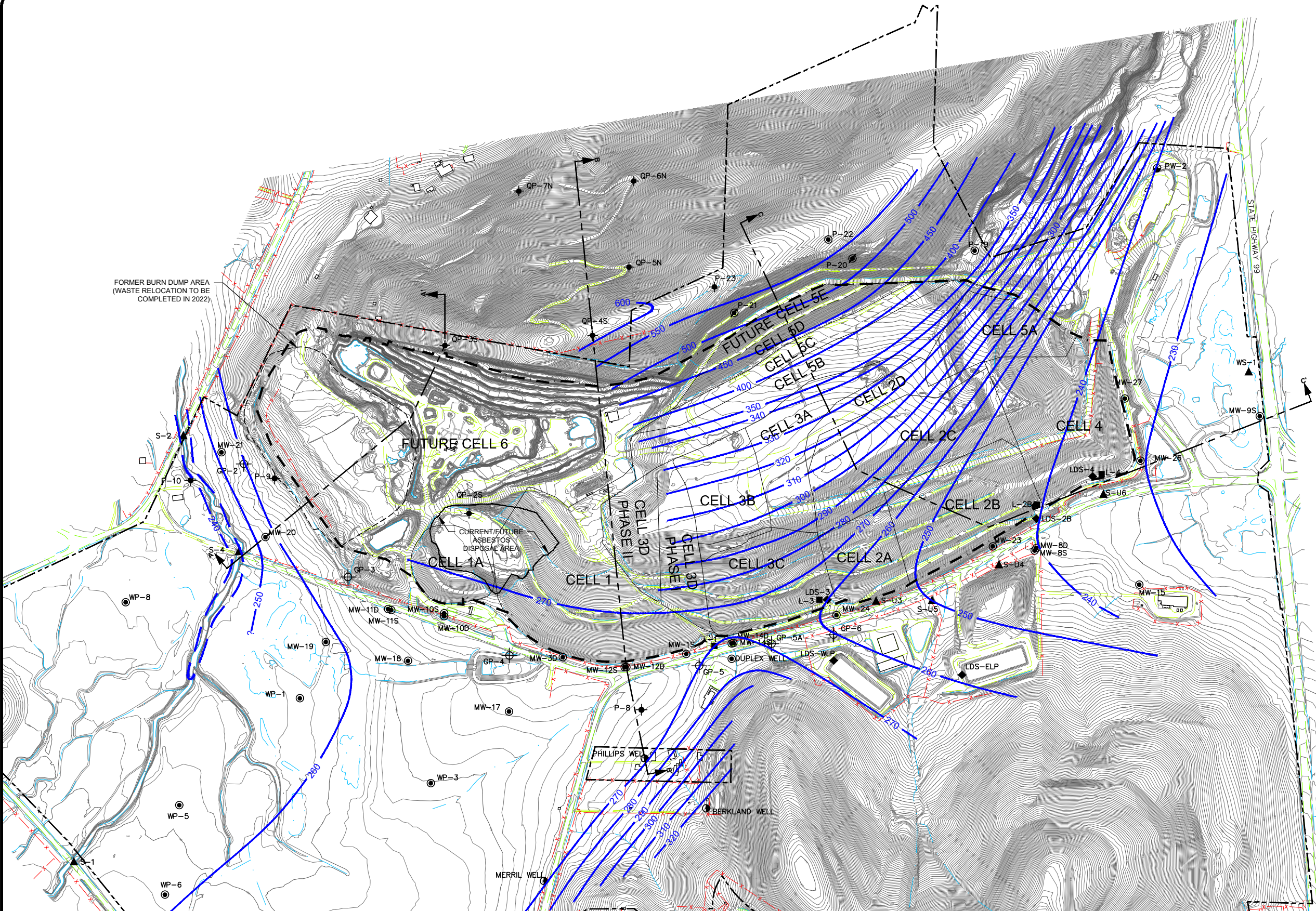
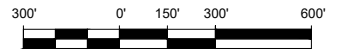
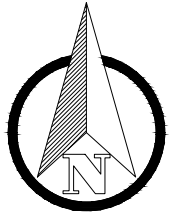
VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
LANDFILL ZONING

DRAWING NO.
G03
 PROJECT NO.
 AU20.1210

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\15_ENGINEERING\1_CIVILDRAWINGS\G03_ZONING.DWG December 22, 2021 - 1:04 PM BY: CLA_USER



LEGEND

- 300 — EXISTING 10' CONTOUR⁽¹⁾
- 2' — EXISTING 2' CONTOUR⁽¹⁾
- 300 — GROUNDWATER CONTOUR⁽²⁾
- x - x - EXISTING FENCE
- — EXISTING PAVED ROAD
- — EXISTING UNPAVED ROAD
- — EXISTING DRAINAGE
- — PROPERTY LINE
- - - - PERMITTED LANDFILL FOOTPRINT
- - - - EXISTING CELL BOUNDARY
- - - - FUTURE CELL BOUNDARY
- MW-22 ● GROUNDWATER MONITORING WELL / PIEZOMETER
- PW-2 ● LANDFILL WATER SUPPLY WELL
- QP-35 ● OBSERVATION WELL / PIEZOMETER
- WELL ● PRIVATE WELL
- WS-1 ▲ SURFACE WATER MONITORING POINT
- L-3 ■ LEACHATE SUMP
- LDS-3 ◆ LEAK DETECTION SYSTEM
- GP-4 ⊕ GAS PROBE

NOTES

1. REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
2. GROUNDWATER ELEVATION CONTOUR FROM APRIL 2020.

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CHECKED BY:	JVR
APPROVED BY:	AO



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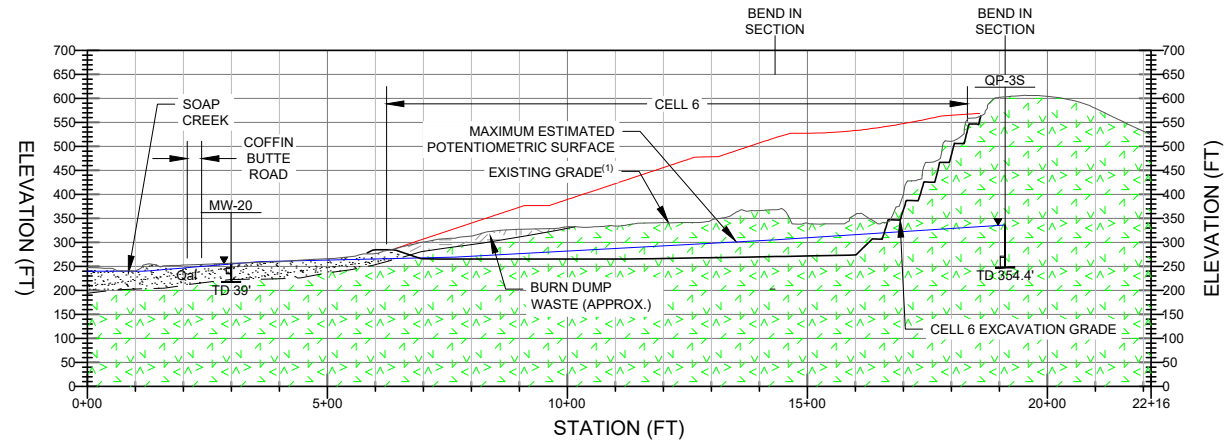


COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
 MAXIMUM ESTIMATED GROUNDWATER CONTOURS

DRAWING NO.
GW-1
PROJECT NO.
 AU20.1210

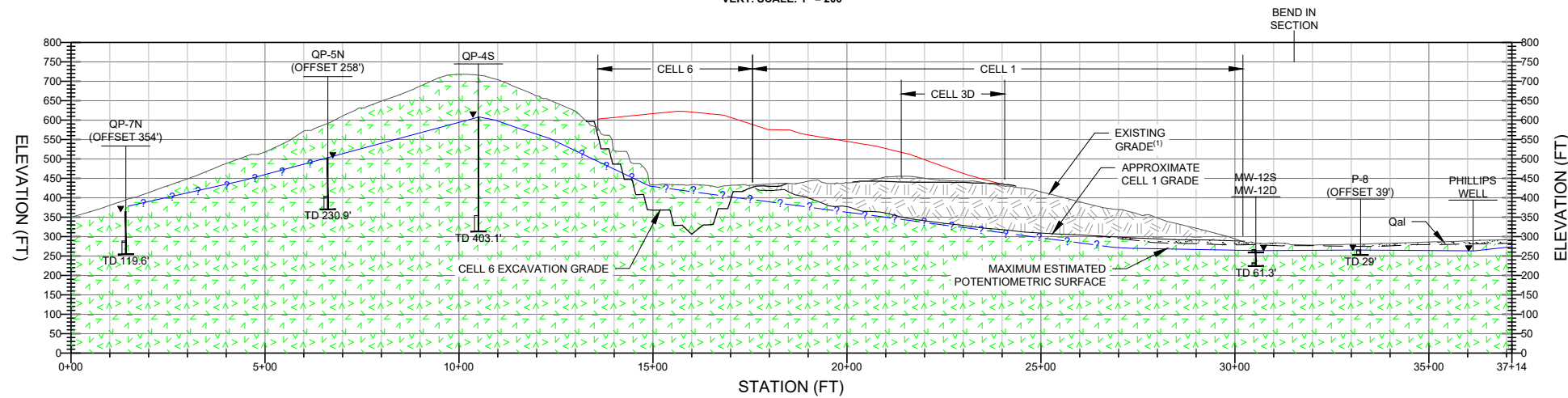
N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\J.E. ENGINEERING\1. CIVIL\DRAWINGS\GROUNDWATER FIGURES - SDP.DWG December 29, 2021 - 3:27 PM BY: GLA USER

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\S_Engineering\1_CIVILDRAWINGS\GROUNDWATER FIGURES - SDP.DWG December 29, 2021 - 3:27 PM BY: GLA USER



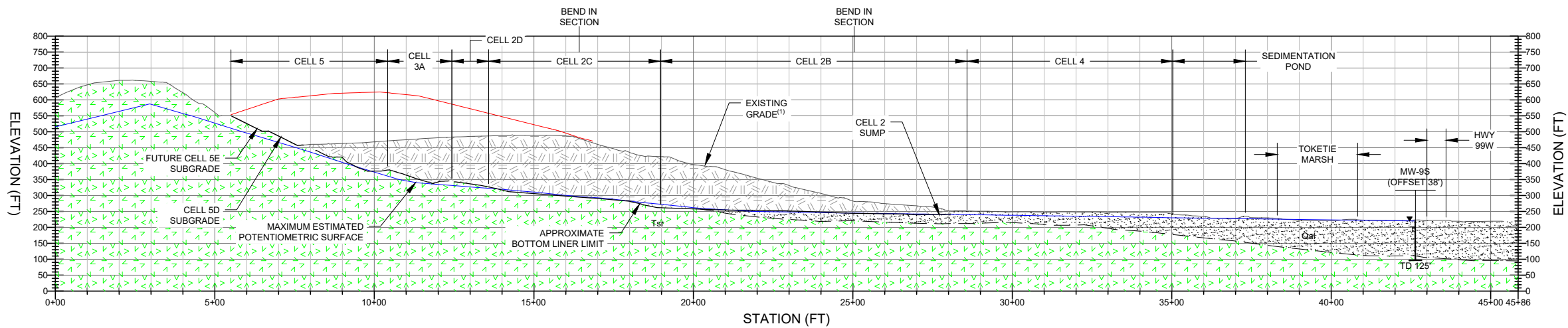
SECTION A-A'

HORIZ. SCALE: 1" = 200'
VERT. SCALE: 1" = 200'



SECTION B-B'

HORIZ. SCALE: 1" = 200'
VERT. SCALE: 1" = 200'



SECTION C-C'

HORIZ. SCALE: 1" = 200'
VERT. SCALE: 1" = 200'

LEGEND

- WASTE FILL
 - ALLUVIUM - PRIMARILY SILT AND CLAY WITH THIN LAYERS OF SAND AND GRAVEL (Qal)
 - BASALT BEDROCK - SILETZ RIVER VOLCANICS (Tsr)
 - GEOLOGIC CONTACT, DASHED WHERE APPROXIMATE, QUERIED WHERE UNCERTAIN
 - GROUNDWATER ELEVATION, QUERIED WHERE UNCERTAIN⁽²⁾
 - MAXIMUM FUTURE WASTE FILL
-
- QP-1S — WELL OR PIEZOMETER DESIGNATION
 - MAXIMUM ESTIMATE GROUNDWATER ELEVATION (2020)
 - BORING
 - SAND PACK INTERVAL
 - SCREEN INTERVAL
 - TD 224.1' — TOTAL DEPTH OF BORING

- NOTES**
- REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
 - GROUNDWATER ELEVATION CONTOUR FROM APRIL 2020.

ISSUED AS 2021 PERMIT UPDATE

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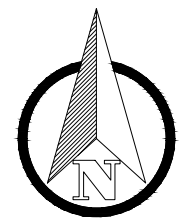
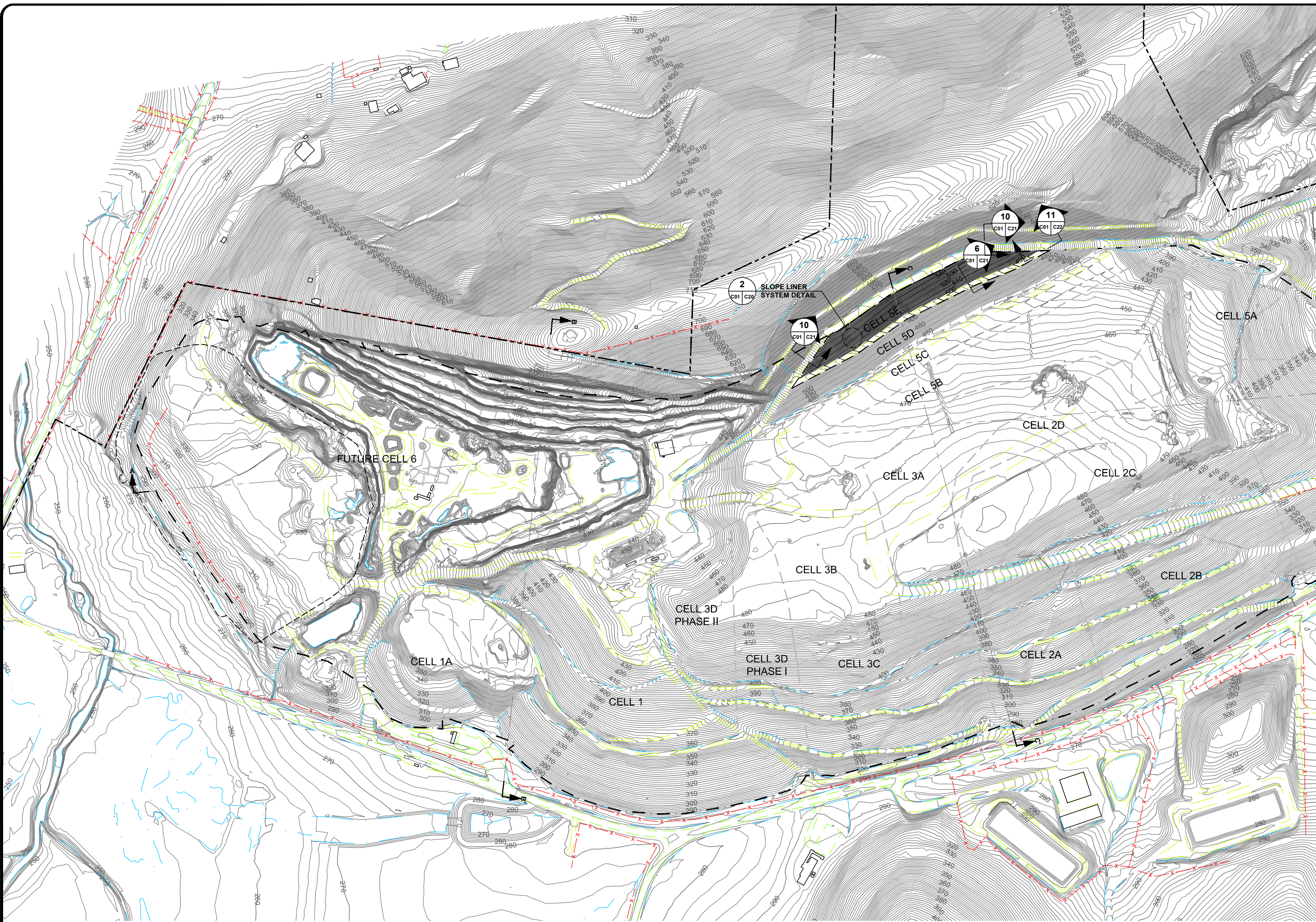
VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
BENTON COUNTY, OREGON
MAXIMUM ESTIMATED GROUNDWATER CONTOURS

DRAWING NO.
GW-2
PROJECT NO.
AU20.1210

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\5. ENGINEERING\1. CIVIL\DRAWINGS\C01 CELL 5D.DWG December 29, 2021 - 3:52 PM BY: GLA USER



LEGEND

- 300 — EXISTING 10' CONTOUR⁽¹⁾
- 2' — EXISTING 2' CONTOUR⁽¹⁾
- x - x - EXISTING FENCE
- — EXISTING PAVED ROAD
- — EXISTING UNPAVED ROAD
- — EXISTING DRAINAGE
- — EXISTING LINER LIMITS
- EXISTING POWER/UTILITY POLE
- * EXISTING LIGHT POLE
- - - - PROPERTY LINE
- - - - PERMITTED LANDFILL FOOTPRINT
- - - - FUTURE CELL BOUNDARY

- NOTES**
1. REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
 2. WASTE FILL VOLUMES EXCLUDE UNDERDRAIN, SLCRS, PLCS, AND OPERATIONS SOIL VOLUMES.

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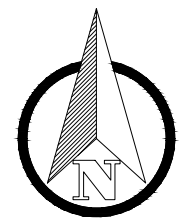
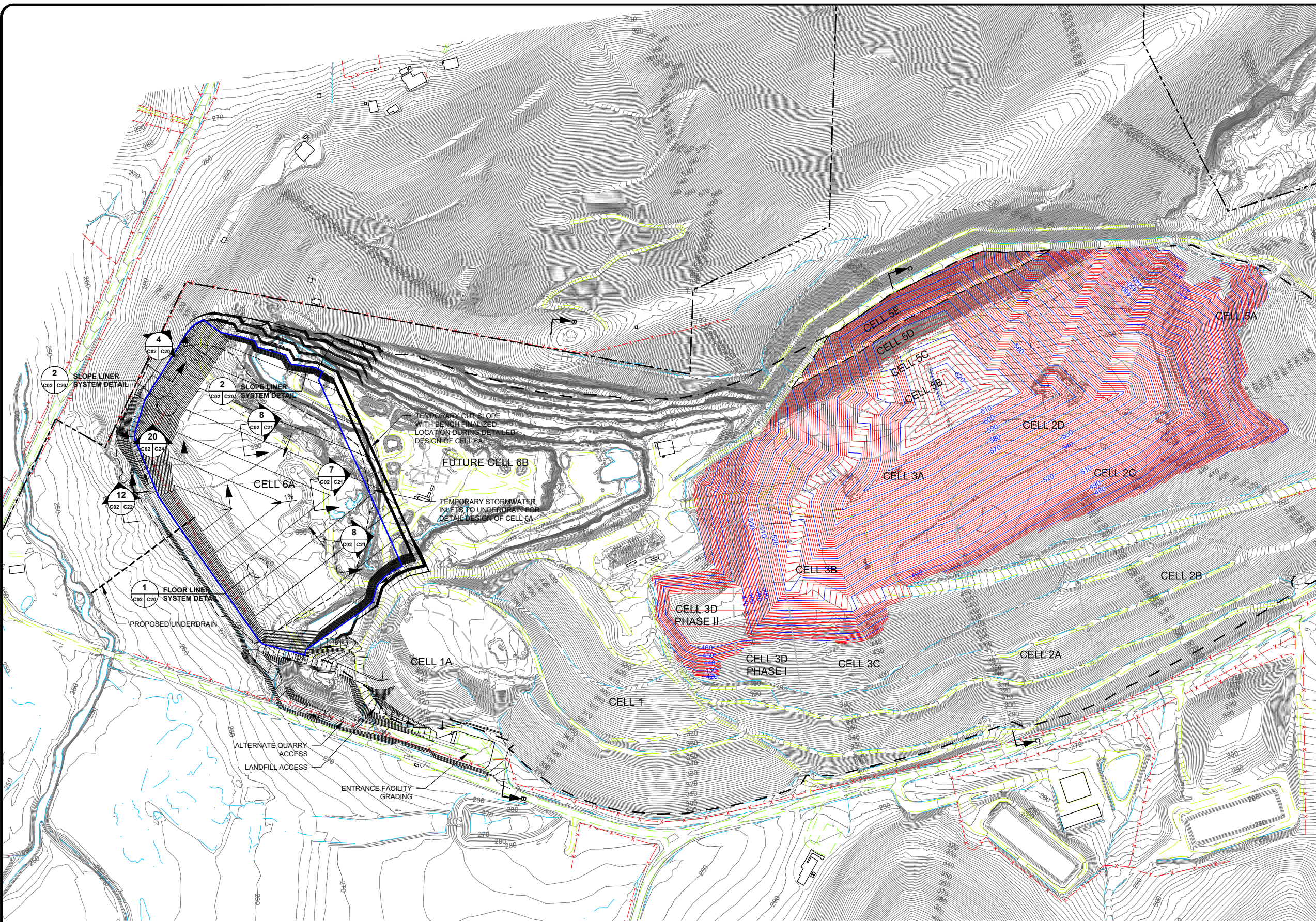
VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
CELL 5E EXCAVATION

DRAWING NO.
C01
PROJECT NO.
 AU20.1210

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\J5_ENGINEERING\1_CIVILDRAWINGS\C02 CELL 6A.DWG December 30, 2021 - 2:13 PM BY: GLA USER



LEGEND

- 300 — EXISTING 10' CONTOUR⁽¹⁾
- 300 — EXISTING 2' CONTOUR⁽¹⁾
- 300 — PROPOSED 10' WASTE FILL CONTOUR⁽²⁾
- 300 — PROPOSED 2' WASTE FILL CONTOUR⁽²⁾
- 300 — PROPOSED 10' EXCAVATION CONTOUR
- 300 — PROPOSED 2' EXCAVATION CONTOUR
- x - x - EXISTING FENCE
- — EXISTING PAVED ROAD
- — EXISTING UNPAVED ROAD
- — EXISTING DRAINAGE
- — EXISTING LINER LIMITS
- — PROPOSED CELL 6A LINER
- — PROPERTY LINE
- — PERMITTED LANDFILL FOOTPRINT
- — FUTURE CELL BOUNDARY
- — PROPOSED UNDERDRAIN

QUANTITIES

CELL 5
WASTE FILL VOLUME = 4,834,330 CY⁽³⁾

CELL 6A
LINED AREA = 19.8 ACRES
SOIL EXCAVATION = 2,151,000 CY
SOIL FILL = 60,000 CY

NOTES

1. REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
2. FILL CONTOURS FROM 2013 SITE DEVELOPMENT PLAN WITH MODIFICATIONS TO ADDRESS SETTLING.
3. WASTE VOLUME EXCLUDES OPS, PLCS, SLCRS, AND UNDERDRAIN MATERIAL VOLUMES FROM CELL 5D/5E.

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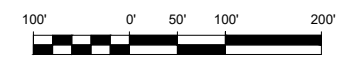
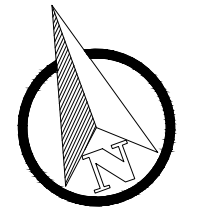
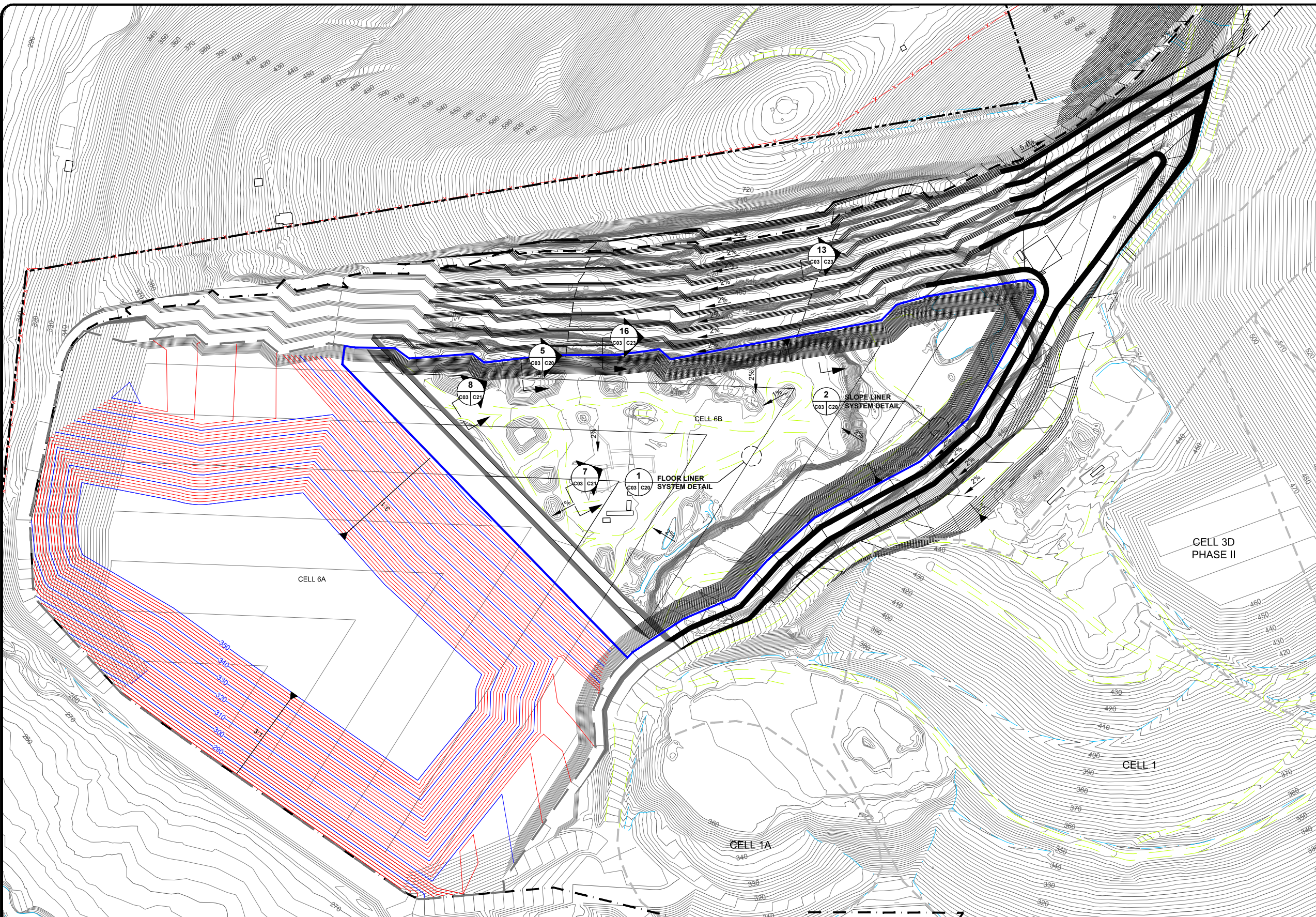
VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
 CELL 6A EXCAVATION & CELL 5 FILL

DRAWING NO.
C02
PROJECT NO.
 AU20.1210

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\5. ENGINEERING\1. CIVILDRAWINGS\C03 CELL 6A FILL - 6B BASE DWG December 29, 2021 - 4:07 PM BY: GLA USER



LEGEND

- 300 — EXISTING 10' CONTOUR⁽¹⁾
- 300 — EXISTING 2' CONTOUR⁽¹⁾
- 300 — PROPOSED 10' WASTE FILL CONTOUR
- 300 — PROPOSED 2' WASTE FILL CONTOUR
- 300 — PROPOSED 10' EXCAVATION CONTOUR
- 300 — PROPOSED 2' EXCAVATION CONTOUR
- x - x - EXISTING FENCE
- — EXISTING PAVED ROAD
- — EXISTING UNPAVED ROAD
- — EXISTING DRAINAGE
- — EXISTING LINER LIMITS
- — PROPOSED CELL 6 LINER
- — PREVIOUS CELL 6 LINER
- — PROPERTY LINE
- — FUTURE LANDFILL FOOTPRINT
- — FUTURE CELL BOUNDARY

QUANTITIES

CELL 6A
 WASTE FILL VOLUME = 1,482,261 CY
 CUMULATIVE WASTE FILL VOLUME = 6,316,591 CY

CELL 6B
 LINED AREA = 11.3 ACRES
 SOIL EXCAVATION = 1,817,000 CY
 SOIL FILL = 22,000 CY

NOTES

1. REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS COMPANY.
2. WASTE FILL VOLUMES EXCLUDE UNDERDRAIN, SLCRS, PLCS, AND OPERATIONS SOIL VOLUMES.

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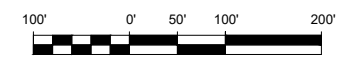
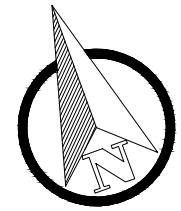
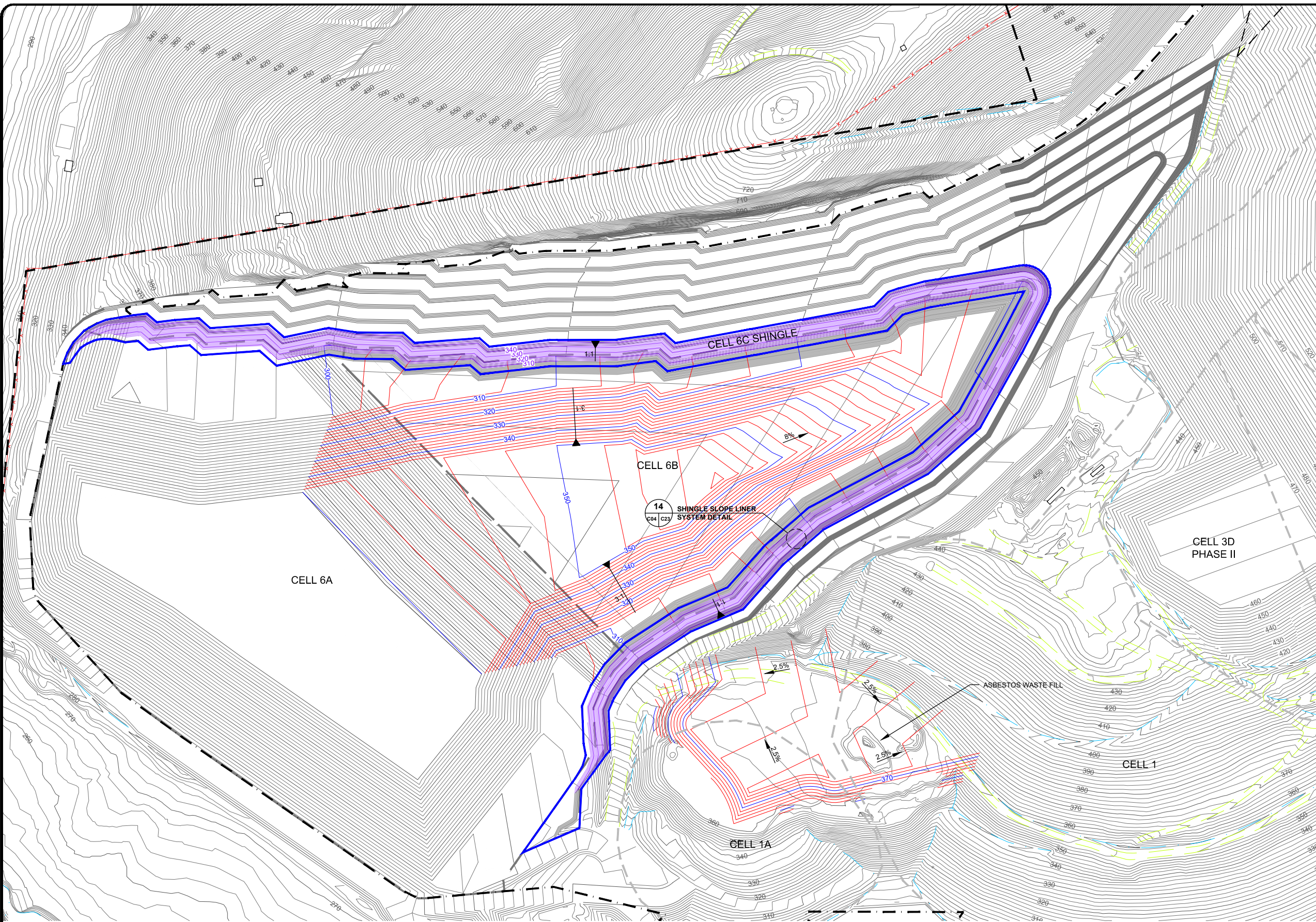
VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
 CELL 6B EXCAVATION & CELL 6A FILL

DRAWING NO. C03
PROJECT NO. AU20.1210

N:\COFFIN BUTTE\AU20.1211 - SITE DEVELOPMENT PLAN (SDP)\15_ENGINEERING\1_CIVILDRAWINGS\C04_CELL 6B FILL - 6C BASE DWG December 30, 2021 - 2:28 PM BY: CLAU USER



LEGEND

- 300 — EXISTING 10' CONTOUR⁽¹⁾
- 310 — EXISTING 2' CONTOUR⁽¹⁾
- 300 — PROPOSED 10' WASTE FILL CONTOUR
- 320 — PROPOSED 2' WASTE FILL CONTOUR
- 300 — PROPOSED 10' SHINGLE FILL CONTOUR
- 300 — PROPOSED 2' SHINGLE FILL CONTOUR
- x - x - EXISTING FENCE
- — EXISTING PAVED ROAD
- — EXISTING UNPAVED ROAD
- — EXISTING DRAINAGE
- — EXISTING LINER LIMITS
- — PROPOSED CELL 6 LINER
- — PREVIOUS CELL 6 LINER
- — PROPERTY LINE
- - - - AREA PERMITTED FOR LANDFILL USE
- - - - FUTURE CELL BOUNDARY

QUANTITIES

CELL 6B
 WASTE FILL VOLUME = 1,029,428 CY
 CUMULATIVE WASTE FILL VOLUME = 7,346,020 CY

CELL 6C
 LINED AREA = 4.3 ACRES
 SHINGLE FILL = 74,000 CY

ASBESTOS WASTE FILL VOLUME = 61,000 CY

NOTES

1. REFERENCE AERIAL TOPOGRAPHY BASED ON MARCH 30, 2021 AERIAL SURVEY PERFORMED BY COOPER AERIAL SERVICES

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

ISSUED AS 2021 PERMIT UPDATE

REV. NO.	DATE	DESCRIPTION	APPROVED BY
0	12/30/21	ISSUED AS 2021 PERMIT UPDATE	AO

DATE OF ISSUE: 12/30/2021
 DESIGNED BY: RPB/AO
 DRAWN BY: RPB
 CHECKED BY: JVR
 APPROVED BY: AO



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VALLEY LANDFILLS, INC.



COFFIN BUTTE LANDFILL
SITE DEVELOPMENT PLAN
 BENTON COUNTY, OREGON
 CELL 6B FILL & CELL 6C SHINGLE

DRAWING NO.
C04
 PROJECT NO.
 AU20.1210