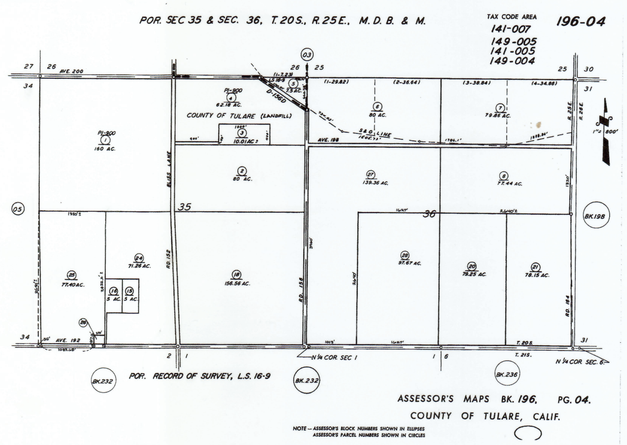
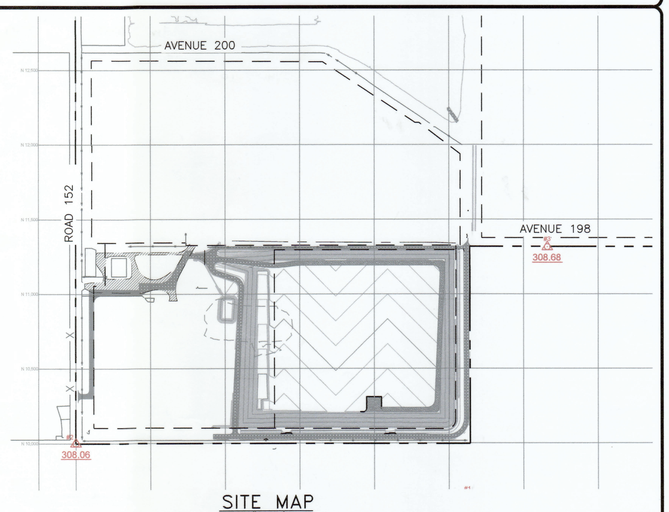


PARCEL MAP
NTS



SITE MAP
1"=500'

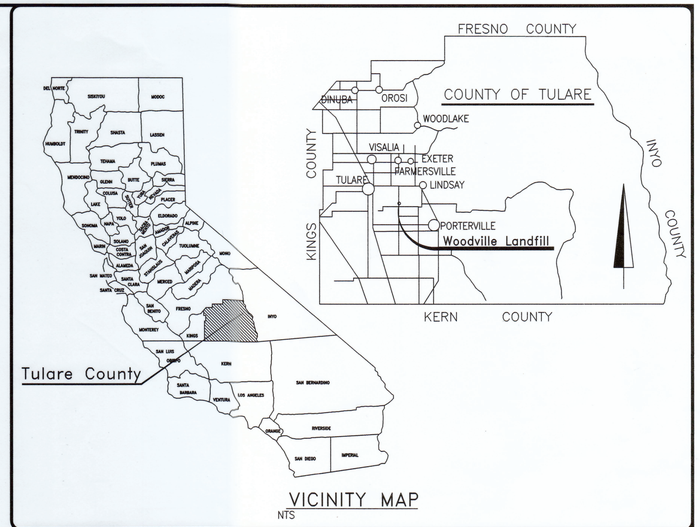
PLANS FOR THE WOODVILLE LANDFILL UNIT II, PHASE 1 COUNTY OF TULARE STATE OF CALIFORNIA

OCTOBER 2022

PREPARED BY:

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC

PROJECT NO.
631021443



VICINITY MAP
NTS

DRAWING INDEX

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C2	GENERAL NOTES	1	10/06/22
C3	EXISTING SITE PLAN	1	10/06/22
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C6	BOTTOM OF PREPARED SUBGRADE	1	10/06/22
C7	TOP OF PREPARED SUBGRADE	1	10/06/22
C8	TOP OF OPERATIONS LAYER PLAN	1	10/06/22
C8A	SPOT ELEVATION POINTS PLAN	1	10/06/22
C8B	SPOT ELEVATION POINTS TABLE	1	10/06/22
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C9	SECTIONS AND BASE LINER DETAILS	1	10/06/22
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DRAWING INDEX

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C12	MISC. DETAILS	1	10/06/22
C13	LEACHATE STORAGE FACILITY PLAN	1	10/06/22
C13A	LEACHATE STORAGE FACILITY PLAN	1	10/06/22
C13B	LEACHATE STORAGE FACILITY PLAN	1	10/06/22
C13C	LEACHATE STORAGE FACILITY PLAN	1	10/06/22
C13D	LEACHATE STORAGE FACILITY PLAN	1	10/06/22
C14	LEACHATE FACILITY DETAILS	1	10/06/22
C14A	LEACHATE FACILITY DETAILS	1	10/06/22
C15	LEACHATE FACILITY DETAILS AND SECTIONS	1	10/06/22
C16	RISER DETAILS	1	10/06/22
C17A	ROADWAY ALIGNMENT	1	10/06/22
C17B	ROADWAY ALIGNMENT	1	10/06/22
C17C	ROADWAY ALIGNMENT POINTS	1	10/06/22
C18	LIMITS OF SEEDING AND EROSION CONTROL	1	10/06/22
S1	CROSS-SECTIONS ALIGNMENT PLAN	1	10/06/22
S2	CROSS-SECTIONS	1	10/06/22
S3	CROSS-SECTIONS	1	10/06/22
S4	CROSS-SECTIONS	1	10/06/22
S5	PROFILE – CULVERT 4 & 6	1	10/06/22
S6	PROFILE – CULVERT 5	1	10/06/22
E1	ELECTRICAL DETAILS	1	9/15/22
E2	ELECTRICAL ONE-LINE DIAGRAM	1	9/15/22
E3	ELECTRICAL DETAILS	1	9/15/22

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER M. RICHGELS
NO. C47767
EXP. 12/31/23
CIVIL
STATE OF CALIFORNIA

COUNTY OF TULARE

BOARD OF SUPERVISORS — DATE: 9-12-23

TULARE COUNTY SOLID WASTE DIVISION — DATE: 8/15/23

APPROVALS

CHRISTOPHER RICHGELS
PROJECT MANAGER — DATE: 10/7/2022

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

TITLE SHEET

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C1
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 1 OF 38

GENERAL NOTES

1. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT INCLUDE THESE CONSTRUCTION DRAWINGS AND THE ASSOCIATED CONSTRUCTION QUALITY ASSURANCE MANUAL AND SPECIFICATION REQUIREMENTS.

2. ALL REFERENCES TO STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SHALL REFER TO THE 2018 EDITION OF THE STANDARD SPECIFICATION. ATTENTION IS ALSO DIRECTED TO THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS (2018) WHICH, WHEN APPLICABLE, ARE INCLUDED IN THESE DRAWINGS AND REFERENCE BY STANDARD PLAN NUMBER.

3. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH COUNTY REQUIREMENTS AND AS DIRECTED BY THE ENGINEER. SAFE VEHICULAR PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.

4. A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR SHALL DO ALL FIELD STAKING AT THE EXPENSE OF THE CONTRACTOR.

5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, WHILE EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

6. ALL WORK COMPLETED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL HEALTH AND SAFETY ACT AND ANY APPLICABLE STATE AND/OR LOCAL REQUIRED PERMITS. ALL WORK TO BE PERFORMED BY WORKERS QUALIFIED IN THE WORK TRADE.

7. CONTRACTOR SHALL REFER TO ALL PLAN SHEETS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE DESIGN ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.

8. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ANY SURVEY MONUMENTS, MONITORING WELLS, GAS PROBES, AND ANY OTHER INFRASTRUCTURE OR MONITORING INSTRUMENTS ENCOUNTERED IN THE FIELD, WHETHER SHOWN ON THE PLANS OR NOT.

9. THE CONTRACTOR WILL COMPLY WITH COMMON GROUND CLEARANCE BEST MANAGEMENT PRACTICES FOR UTILITY MARKING, LOCATING, AND PROTECTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM LOCATIONS OF UNDERGROUND AND/OR OVERHEAD UTILITIES PRIOR TO COMMENCING WORK ACTIVITIES. CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY LOCATOR PER STATE LAW. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ANY UTILITIES NOT IDENTIFIED IN A PUBLIC UTILITY SEARCH.

10. SURVEY INFORMATION PRESENTED REPRESENTS SITE CONDITIONS AT THE TIME OF SURVEY AND MAY NOT REFLECT CURRENT CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING SITE CONDITIONS PRIOR TO BIDDING AND START OF WORK.

11. THE CONTRACTOR SHALL CONSULT WITH OWNER TO IDENTIFY CONSTRUCTION LIMITS FOR THIS WORK AND ACCEPTABLE ACTIVITIES WITHIN THOSE LIMITS. OWNER WILL CONTINUE TO ACCESS THE SITE AND MAY PERIODICALLY ACCESS AND WORK WITHIN THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL COOPERATE AT ALL TIMES WITH THE OWNER, OTHER CONTRACTORS AND OTHER CONSULTANTS TO HELP RESOLVE ANY SCHEDULING OR OTHER CONFLICTS THAT MIGHT ARISE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ACCESS ROADS, STAGING AREAS AND STORAGE AREAS USED DURING CONSTRUCTION, UNLESS THE OWNER GIVES WRITTEN PERMISSION TO THE CONTRACTOR EXCLUDING CERTAIN ROADS OR AREAS FROM MAINTENANCE. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THESE AREAS, INCLUDING THE OFFICE AND EMPLOYEE PARKING AREAS, TO THEIR ORIGINAL CONDITION OR BETTER, UNLESS OWNER GIVES WRITTEN PERMISSION TO THE CONTRACTOR TO RETAIN THE AREA “AS-IS.”

13. PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL WORK WITH THE OWNER TO DEVELOP AND MAINTAIN A CONSTRUCTION SCHEDULE THAT INDICATES SEQUENCING OF WORK AND SCHEDULED MATERIAL DELIVERIES. ELECTRICAL WORK AND SECURE WATER SUPPLY SHOULD BE SCHEDULED EARLY IN THE PROJECT TO AVOID DELAYS.

14. THE CONTRACTOR IS RESPONSIBLE FOR SITE DRAINAGE THROUGHOUT CONSTRUCTION AND SHALL INSTALL TEMPORARY DRAINAGE DITCHES, STRUCTURES, AND/OR PUMP WATER AS NECESSARY TO PREVENT INTERFERENCE WITH THE WORK. TEMPORARY DRAINAGE FEATURES SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ENVIRONMENTAL PERMITS, THE SWPPP, AND AS APPROVED BY THE ENGINEER.

15. THE THE CONTRACTOR SHALL CONTROL FUGITIVE DUST EMISSIONS DURING CONSTRUCTION. CONTRACTOR TO DEVELOP AND IMPLEMENT A DUST CONTROL PLAN, SUBJECT TO APPROVAL OF THE OWNER, AND AS REQUIRED BY PERMIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT A CONSTRUCTION NOTIFICATION FORM DIRECTLY TO THE SAN JUAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF EARTHMOVING ACTIVITIES. CONTRACTOR MUST HAVE SUFFICIENT EQUIPMENT FOR DUST CONTROL AND SOIL MOISTURE CONDITIONING. CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL PER SECTION 14-9 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.

16. THE CONTRACTOR SHALL COMMUNICATE CONSTRUCTION ISSUES, PROBLEMS OR DISCREPANCIES IN THE PLANS FOR CONSTRUCTION TO THE ENGINEER, CQA OFFICER AND OWNER IMMEDIATELY UPON BECOMING AWARE OF SUCH PROBLEMS.

17. ANY PROPOSED MODIFICATION TO DESIGN FEATURES AS SHOWN (OR DESCRIBED) IN THE APPROVED ISSUED FOR CONSTRUCTION CONTRACT DOCUMENTS SHALL BE CONTINGENT UPON ENGINEER APPROVAL.

18. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE CONSTRUCTION PERMITS, AND DEVELOPMENT AND APPROVAL OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND GUIDELINES FOR ALL ASSOCIATED CONSTRUCTION ACTIVITIES.

19. WORK IN PROXIMITY TO AND BENEATH OVERHEAD UTILITIES SHALL OCCUR IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) REGULATIONS AND STANDARDS. PROVIDE SHIELDING AND/OR BRACING AS NECESSARY TO COMPLETE THE WORK.

20. THE CONTRACTOR SHALL UTILIZE EQUIPMENT, MATERIALS AND PROCEDURES WHICH ARE ANTICIPATED TO MEET THE QUALITY REQUIREMENTS SPECIFIED.

21. THE CQA OFFICER IS RESPONSIBLE FOR CONDUCTING QUALITY ASSURANCE TESTING IN ACCORDANCE WITH THE APPROVED CQA MANUAL. THE CONTRACTOR SHALL PROVIDE THE CQA OFFICER SAFE AND UNIMPEDED ACCESS TO THE SAMPLING AND TESTING LOCATIONS SELECTED BY THE CQA OFFICER. THE CONTRACTOR TO ASSIST CQA OFFICER IN OBTAINING SAMPLES FOR TESTING.

22. PAVING FABRIC TO MEET CALTRANS 96-1.02J SPECIFICATIONS.

23. CLASS 2 AGGREGATE BASE TO MEET CALTRANS SECTION 26 SPECIFICATIONS (3/4" MAX.).

24. CONTRACTOR SHALL COOPERATE WITH, AND PROVIDE REASONABLE ASSISTANCE TO, THE THIRD PARTY CONSTRUCTION QUALITY ASSURANCE OFFICER, AND HIS AUTHORIZED AGENTS IN THE EXECUTION OF THE CONSTRUCTION QUALITY ASSURANCE MANUAL DURING CONSTRUCTION.

GENERAL CONSTRUCTION SEQUENCE

1. COORDINATE ELECTRICAL WORK AND SECURE CONSTRUCTION WATER SUPPLY.
2. INSTALL EROSION CONTROL MATERIALS PRIOR TO GROUND DISTURBANCE.
3. REMOVE SUBGRADE SOILS AS NECESSARY UNTIL FIRM SUBGRADE SOILS ACCEPTABLE BY THE CQA PLAN REQUIREMENTS ARE ENCOUNTERED.
4. PLACE AND COMPACT SUBGRADE SOILS AS NECESSARY TO ACHIEVE SUBGRADE GRADES.
5. INSTALL NEW GEOSYNTHETICS, LEACHATE COLLECTION, REMOVAL AND STORAGE SYSTEMS.
6. INSTALL ACCESS ROADWAYS AND RAMPS.
7. INSTALL STORMWATER MANAGEMENT INFRASTRUCTURE.
8. INSTALL BALLAST SOILS.
9. SEED BALLAST SOILS AND INSTALL SILT FENCE PER SWPPP.
10. SITE CLEANUP AND REMOVAL OF ALL TEMPORARY CONTROLS.

BASIS OF BEARINGS AND COORDINATES

PROJECT BEARINGS ARE DEFINED LOCALLY AS NORTH 0 00'00" EAST BETWEEN THE BRASS DISK FOR THE CENTER OF SECTION 25, POINT NUMBER 100, AND THE BRASS DISK FOR THE NORTH-QUARTER OF SECTION 25,POINT NUMBER 108. COORDINATES ARE DEFINED AS WITH A STARTING POINT 10000,10000 AT POINT NUMBER 100.

BASIS OF ELEVATIONS

SITE BENCHMARK 299.94 FEET AS ESTABLISHED FROM LOCAL SITE ELEVATIONS AND DETERMINED FOR THE BRASS DISK IN CONCRETE NEAR THE NORTHWEST CORNER OF THE PROPERTY, POINT NUMBER I6. (LEVELED APRIL 2021)

PT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	10000.00	10000.00	N/A	BRASS DISK IN CONCRETE, CENTERLINE OF ROAD 152 AT SOUTHWEST CORNER OF SITE, CENTER OF SECTION 25-20/25.
108	12644.36	10000.00	303.34	BRASS DISK IN CONCRETE, CENTERLINE OF ROAD 152 AVENUE 200, NORTHQUARTER CORNER OF SECTION 25-20/25.
12	9999.31	12632.34	312.14	MAG NAIL IN WIER STRUCTURE, EAST SIDE OF ROAD 152 AT SOUTHWEST CORNER OF SITE.
104	11314.12	13160.03	308.93	MAG NAIL IN ASPHALT ROAD, 500 FEET EAST OF ROAD 156.
11	10000.7*	10043.2*	310.77	BRASS DISK IN CENTER OF HEADWALL, EAST SIDE ROAD 152
16	13959.0*	10083.2*	299.94	BRASS DISK IN CONCRETE, 0.70 FEET DOWN, APPROXIMATELY 50 FEET EAST & 3 FEET SOUTH OF NORTHWEST CORNER OF CHAIN LINK FENCE, ½ MILE NORTH OF AVENUE 200.

*COORDINATES ARE APPROXIMATE, PROVIDED FOR SEARCH PURPOSES

MATERIAL TESTING AND SUBGRADE REQUIREMENTS

1. THE CONTRACTOR SHALL SUBMIT REPRESENTATIVE SAMPLES OF EARTHEN AND GEOSYNTHETIC MATERIALS TO THE CQA OFFICER FOR LABORATORY TESTING PRIOR TO IMPORTING THE MATERIALS TO THE SITE. ALTERNATIVELY, THE CONTRACTOR SHALL SUBMIT LABORATORY TEST RESULTS FROM THE AGGREGATE PRODUCTS SUPPLIER(S) DEMONSTRATING THAT THE SUPPLIED AGGREGATES MEET THE SPECIFICATIONS CONTAINED IN THE CONSTRUCTION DOCUMENTS. SUPPLIER-PROVIDED LABORATORY DATA SHALL BE SUBMITTED TO THE CQA OFFICER PRIOR TO IMPORTING THE MATERIAL TO THE SITE.

2. MATERIAL TESTING REQUIREMENTS ARE PROVIDED IN THE CQA PLAN. IN ADDITION, THE SUBGRADE WILL BE INSPECTED TO ENSURE THAT NO SOFT, STRUCTURALLY WEAK MATERIALS, LARGE ROCKS, OR OTHER DELETERIOUS MATERIAL ARE INCLUDED PRIOR TO INSTALLATION OF THE SUBGRADE PREPARATION LAYER.

3. THE SUBGRADE SHALL BE PROOF-ROLLED TO THE SATISFACTION OF THE CQA OFFICER PRIOR TO PLACING THE SUBGRADE PREPARATION LAYER. THE SUBGRADE SHALL BE FIRM, IN AN UNFROZEN STATE, AND FREE OF ORGANICS, TOPSOIL, DEBRIS, AND STANDING OR RUNNING WATER.

4. UNSUITABLE MATERIALS SHALL BE OVER-EXCAVATED AND REMOVED FROM THE SUBGRADE. UNSUITABLE MATERIALS INCLUDE: ORGANIC-RICH SOILS, SATURATED SAND AND SOFT SOILS THAT DO NOT PROVIDE A FIRM SUBGRADE TO WITHSTAND THE MASS OF THE LANDFILL. SOFT, UNSTABLE OR PUMPING SOILS AT THE SUBGRADE SHALL BE REMOVED TO SUCH A DEPTH SO THAT, WHEN BACKFILLED, THE SUBGRADE IS FIRM AND UNYIELDING. SUCH OVER-EXCAVATIONS SHALL BE BACKFILLED WITH COMPACTED SUBGRADE PREPARATION LAYER MATERIAL. THE USE OF GEOTEXTILE AT THE BOTTOM OF THE OVER-EXCAVATION IS ALLOWED TO MINIMIZE THE DEPTH OF THE REQUIRED OVER-EXCAVATION AT THE CONTRACTOR'S DISCRETION. UNSUITABLE AND OVER-EXCAVATED MATERIAL TO BE STOCKPILED SEPARATELY FROM THE REMAINDER OF THE EXCAVATED MATERIAL.

ABBREVIATIONS

℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
COE	CORRUGATED POLYETHYLENE PIPE
ϕ	DIAMETER
DST	DOUBLE-SIDED TEXTURED
E	EASTING
EL	ELEVATION (NAVD88)
FL	FLOW LINE
GCL	GEOSYNTHETIC CLAY LINER
HDPE	HIGH DENSITY POLYETHYLENE
INV	PIPE INVERT
LCRS	LEACHATE COLLECTION AND REMOVAL SYSTEM
LFG	LANDFILL GAS
MFG	MANUFACTURER
MW	MONITORING WELL
N	NORTHING
NAG	NORTH AMERICAN GREEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OZ/SY	OUNCES PER SQUARE YARD
PL	PROPERTY LINE
PT	POINT
RCP	REINFORCED CONCRETE PIPE
SDR	STANDARD DIMENSION RATIO
SS	STAINLESS STEEL
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
TEMP	TEMPORARY
TYP	TYPICAL

REV. NO.	DATE	DESCRIPTION

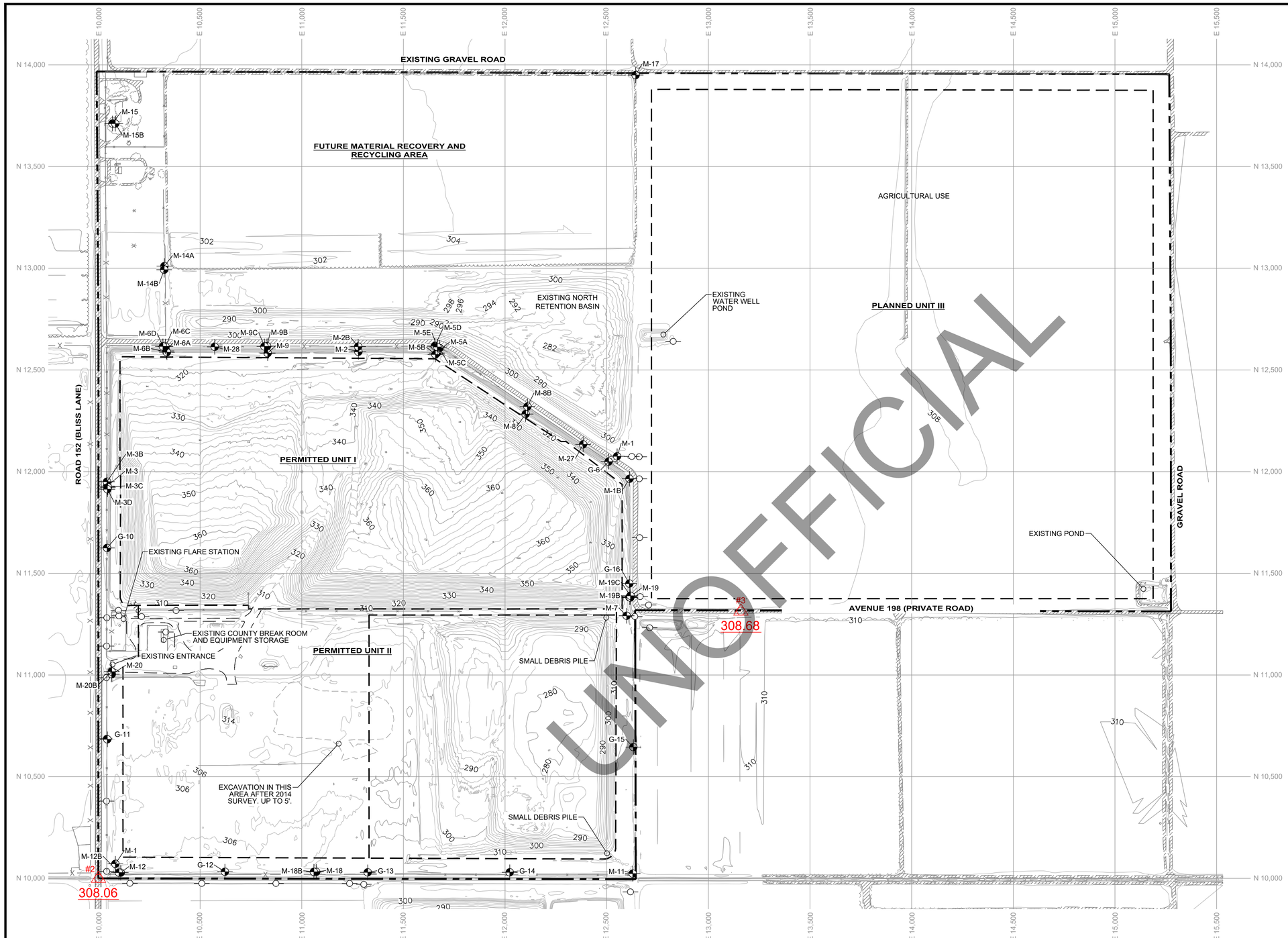
ISSUED FOR BIDDING AND CONSTRUCTION

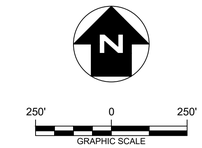
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
GENERAL NOTES

PROJ. NO.: 631021443 | DATE: APRIL 2021
DESIGNED BY: PFB
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR
DRAWING NO. **C2**
SHEET 2 OF 38





LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
- 300 — PROPOSED CONTOUR
- EXISTING ROAD
- X — X — EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ROAD
- PROPOSED GRAVEL / PROPOSED ROAD (CLASS 2 AGG.) 12" THICK
- PROPOSED COMPACTED SOIL. 12" THICK
- M-4 — GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 — LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 / C10 — DRAWING REFERENCE

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.

REV. NO.	DATE	DESCRIPTION

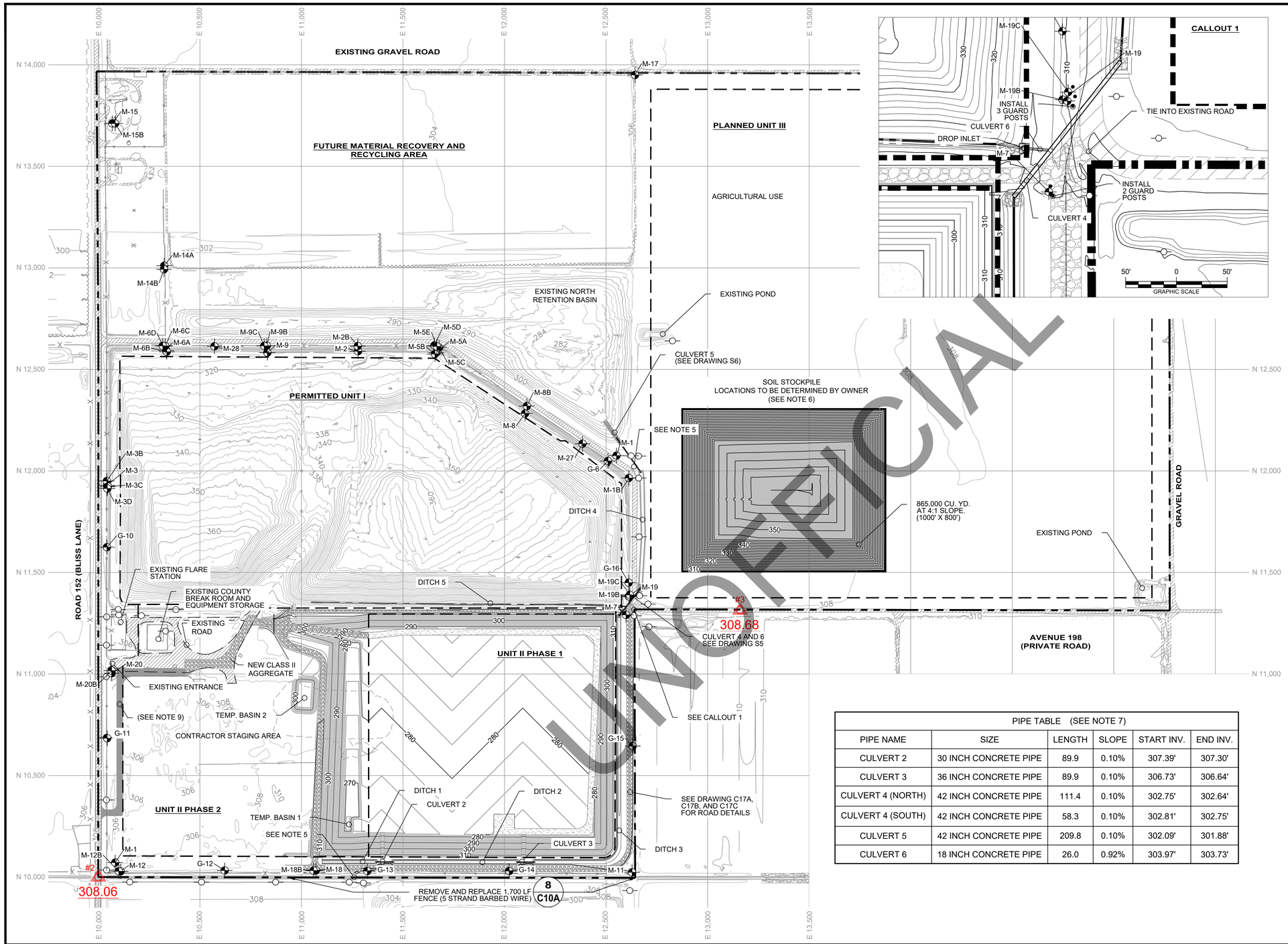
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
EXISTING SITE PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C3
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 3 OF 38



250' 0 250'
GRAPHIC SCALE

LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
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4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. COORDINATE ROAD AND GUARD POST LOCATION WITH OWNER.
6. UNSUITABLE SOIL AND STRIPPED VEGETATION MATERIALS TO BE STOCKPILED SEPARATELY FROM USABLE SOIL MATERIAL STOCKPILE.
7. RCP TO BE MINIMUM CLASS IV AND SUPPORT HL-93 LOADS WITH LESS THAN 2 FEET OF COVER.
8. CONTRACTOR TO PROTECT ALL MONITORING WELLS, GAS WELLS, AND OTHER INFRASTRUCTURE.
9. ASPHALT TO BE PLACED OVER EXISTING BASE ROAD. PROVIDE TYPE A HMA IN ACCORDANCE WITH SECTION 39 OF THE STANDARD SPECIFICATIONS, AS REVISED BY COUNTY. SEE DRAWINGS C10A AND C17A.

PIPE TABLE (SEE NOTE 7)

PIPE NAME	SIZE	LENGTH	SLOPE	START INV.	END INV.
CULVERT 2	30 INCH CONCRETE PIPE	89.9	0.10%	307.39'	307.30'
CULVERT 3	36 INCH CONCRETE PIPE	89.9	0.10%	306.73'	306.64'
CULVERT 4 (NORTH)	42 INCH CONCRETE PIPE	111.4	0.10%	302.75'	302.64'
CULVERT 4 (SOUTH)	42 INCH CONCRETE PIPE	58.3	0.10%	302.81'	302.75'
CULVERT 5	42 INCH CONCRETE PIPE	209.8	0.10%	302.09'	301.88'
CULVERT 6	18 INCH CONCRETE PIPE	26.0	0.92%	303.97'	303.73'

REV. NO.	DATE	DESCRIPTION

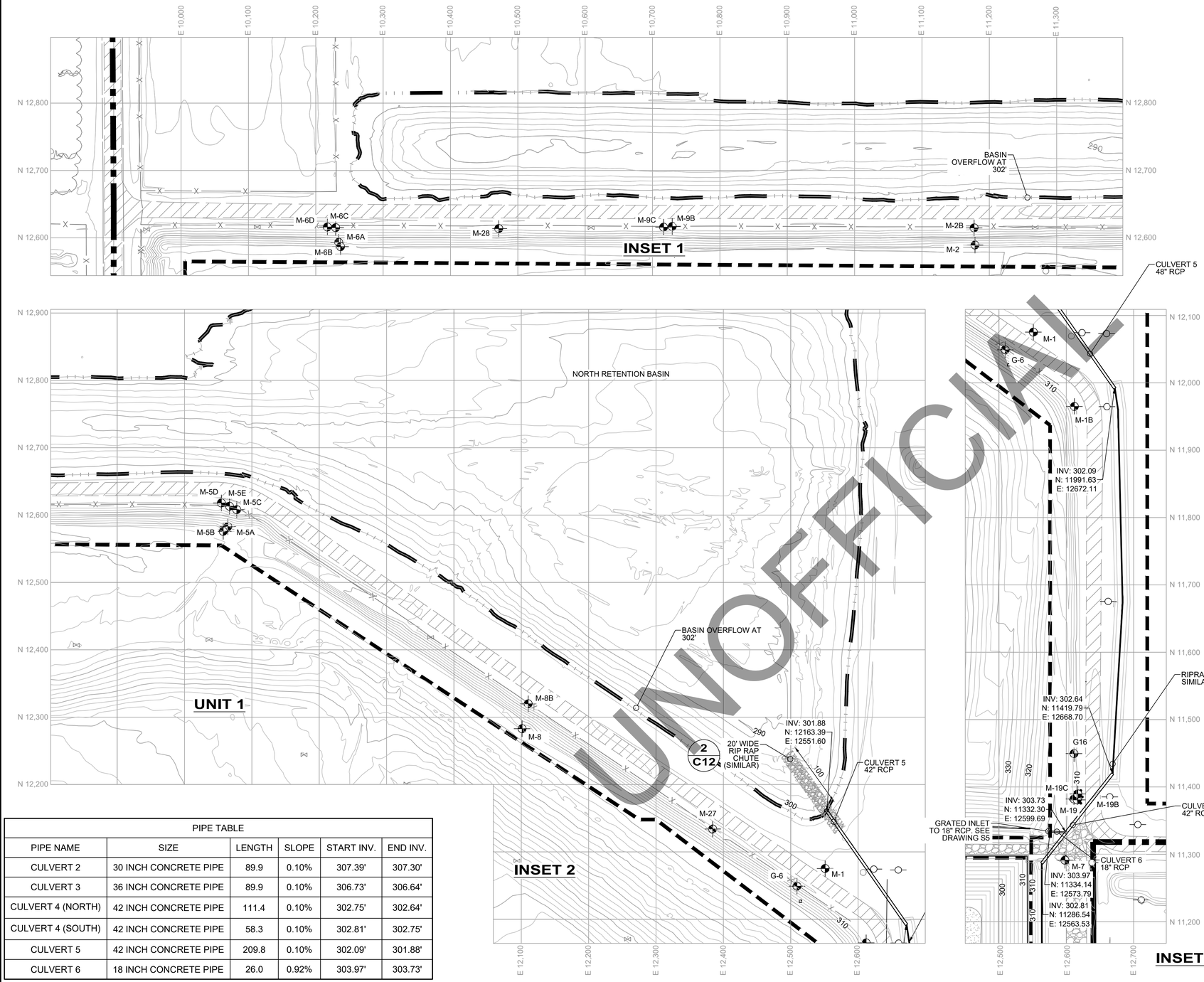
ISSUED FOR BIDDING AND CONSTRUCTION

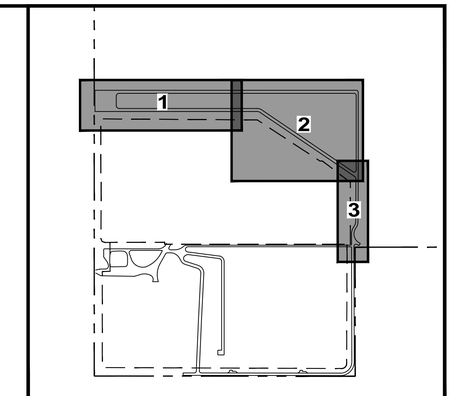
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
PROPOSED SITE PLAN

PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR
DRAWING NO. C4
SHEET 4 OF 38





KEYMAP 750' 0 750' GRAPHIC SCALE

LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
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- CONTROL POINT
- G-6 LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 C10 DRAWING REFERENCE

NOTES

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2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. POND VOLUME BENEATH ELEVATION 302' = 6,672,339 CF (153 AC-FT).

80' 0 80' GRAPHIC SCALE

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE	START INV.	END INV.
CULVERT 2	30 INCH CONCRETE PIPE	89.9	0.10%	307.39'	307.30'
CULVERT 3	36 INCH CONCRETE PIPE	89.9	0.10%	306.73'	306.64'
CULVERT 4 (NORTH)	42 INCH CONCRETE PIPE	111.4	0.10%	302.75'	302.64'
CULVERT 4 (SOUTH)	42 INCH CONCRETE PIPE	58.3	0.10%	302.81'	302.75'
CULVERT 5	42 INCH CONCRETE PIPE	209.8	0.10%	302.09'	301.88'
CULVERT 6	18 INCH CONCRETE PIPE	26.0	0.92%	303.97'	303.73'

REV. NO.	DATE	DESCRIPTION

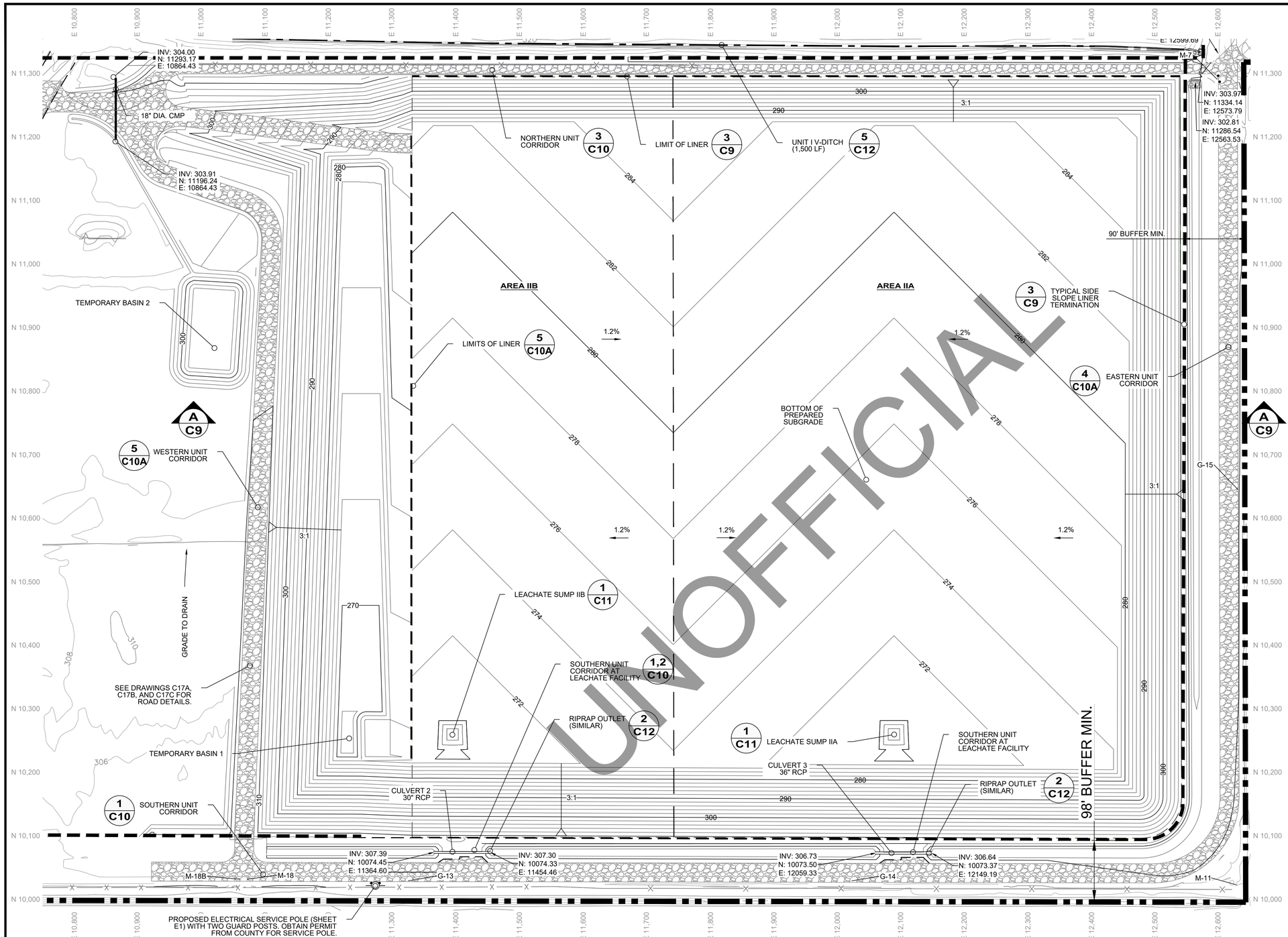
ISSUED FOR BIDDING AND CONSTRUCTION

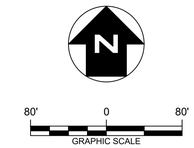
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
STORMWATER BASIN AND CHANNEL PLAN

PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR
DRAWING NO. C5
SHEET 5 OF 38





LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
- 300 — PROPOSED CONTOUR
- EXISTING ROAD
- X — X — EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ROAD
- PROPOSED GRAVEL / PROPOSED ROAD (CLASS 2 AGG.) 12" THICK
- PROPOSED COMPACTED SOIL. 12" THICK
- M-4 GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1/C10 DRAWING REFERENCE

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. PROVIDE GUARD POST PER DETAIL 3, SHEET 15 AT EACH M18, G13, G14, G15, M7, M19, M20. COORDINATE WITH OWNER.
6. BOTTOM OF PROPOSED SUBGRADE AND SUBGRADE PREPARATION LAYER TO BE SMOOTH AND UNYIELDING PRIOR TO PLACEMENT OF ADDITIONAL LINER COMPONENTS.

REV. NO.	DATE	DESCRIPTION

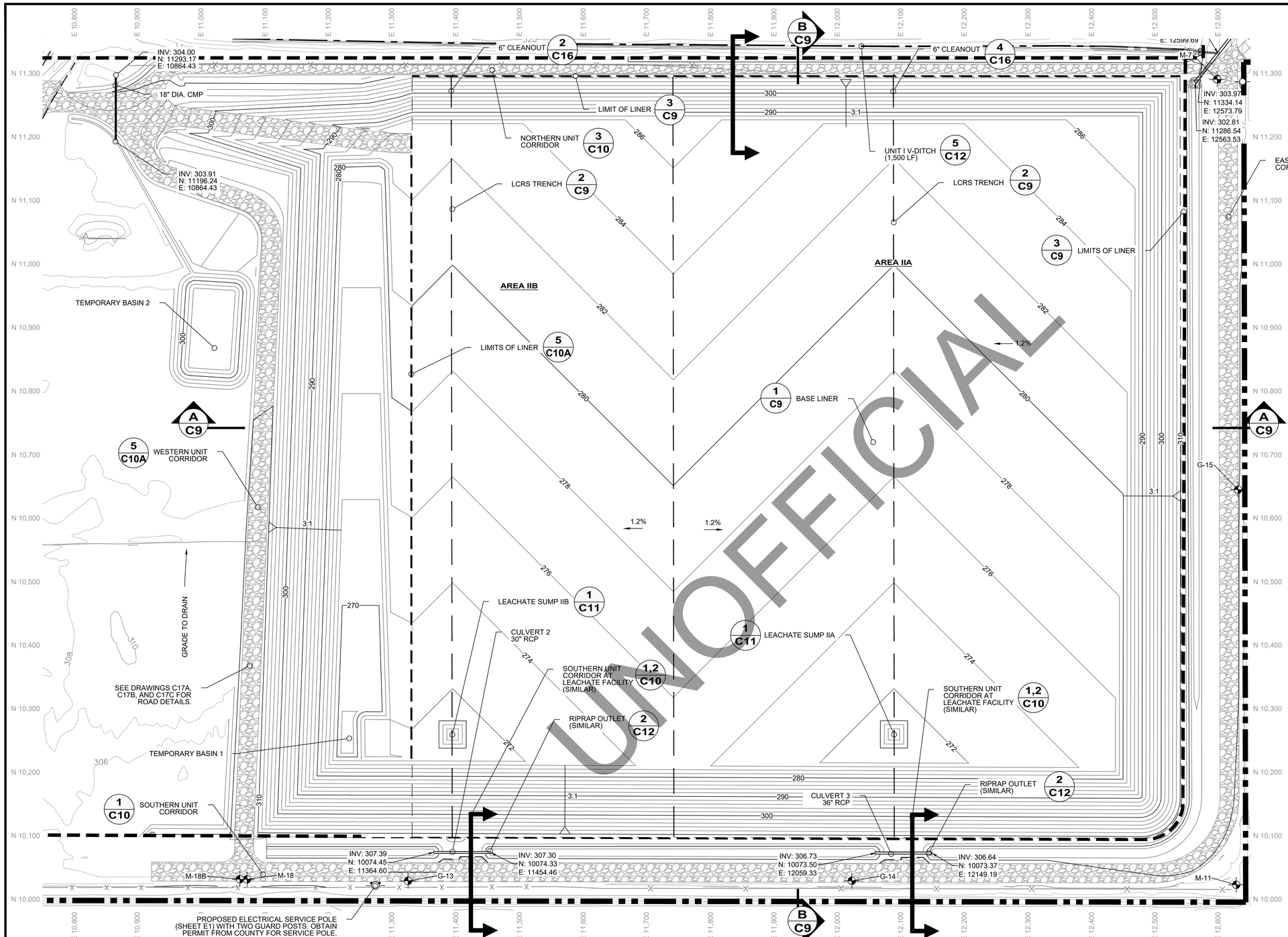
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
BOTTOM OF PREPARED SUBGRADE

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C6
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 6 OF 38



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
- 300 — PROPOSED CONTOUR
- EXISTING ROAD
- X — X — EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ROAD
- PROPOSED GRAVEL / PROPOSED ROAD (CLASS 2 AGG.) 12" THICK
- PROPOSED COMPACTED SOIL. 12" THICK
- M-4 — GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 — LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 C10 — DRAWING REFERENCE

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
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4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. PROVIDE GUARD POST PER DETAIL 3, SHEET 15 AT EACH M18, G13, G14, G15, M7, M19, M20. COORDINATE WITH OWNER.
6. SUBGRADE TO BE SMOOTH AND UNYIELDING PRIOR TO PLACEMENT OF GEOSYNTHETICS.

REV. NO.	DATE	DESCRIPTION

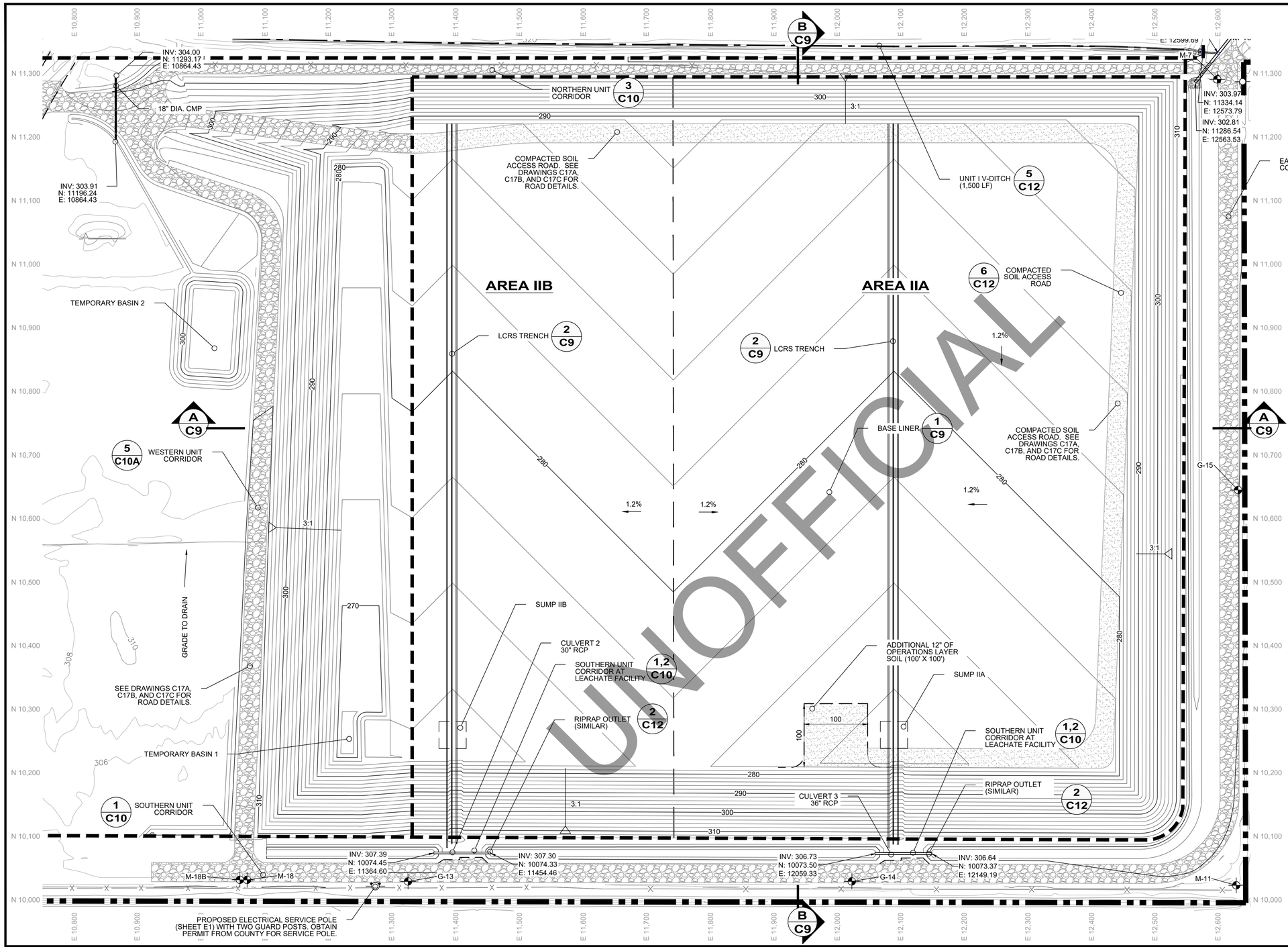
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
TOP OF PREPARED SUBGRADE

PROJ. NO.: 631021443	DATE: APRIL 2021	DRAWING NO.	
DESIGNED BY: PFB		C7	
DRAWN BY: BWM/NV/SJL			
CHECKED BY: MWO			
APPROVED BY: CMR		SHEET 7 OF 38	



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
- 300 — PROPOSED CONTOUR
- EXISTING ROAD
- X — X — EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ROAD
- PROPOSED GRAVEL / PROPOSED ROAD (CLASS 2 AGG.) 12" THICK
- PROPOSED COMPACTED SOIL. 12" THICK
- M-4 — GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 — LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 C10 — DRAWING REFERENCE
- SPOT ELEVATION (SEE C8A)

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
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4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. PROVIDE GUARD POST PER DETAIL 3, SHEET 15 AT EACH M18, G13, G14, G15, M7, M19, M20. COORDINATE WITH OWNER.
6. SOIL ACCESS ROAD TO BE ADDITIONAL 12" OPERATIONS COMPACTED TO 90% DENSITY (ASTM D1557).
7. SPOT ELEVATION POINTS REPRESENT TOP OF THE OPERATIONS SOIL LAYER. THE COMPACTED SOIL ACCESS ROAD AND TURN AROUND AREA TO BE AN ADDITIONAL 12-INCHES OF OPERATIONS LAYER SOIL COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D1557 AT +/- 3% OF OPTIMUM MOISTURE.

REV. NO.	DATE	DESCRIPTION

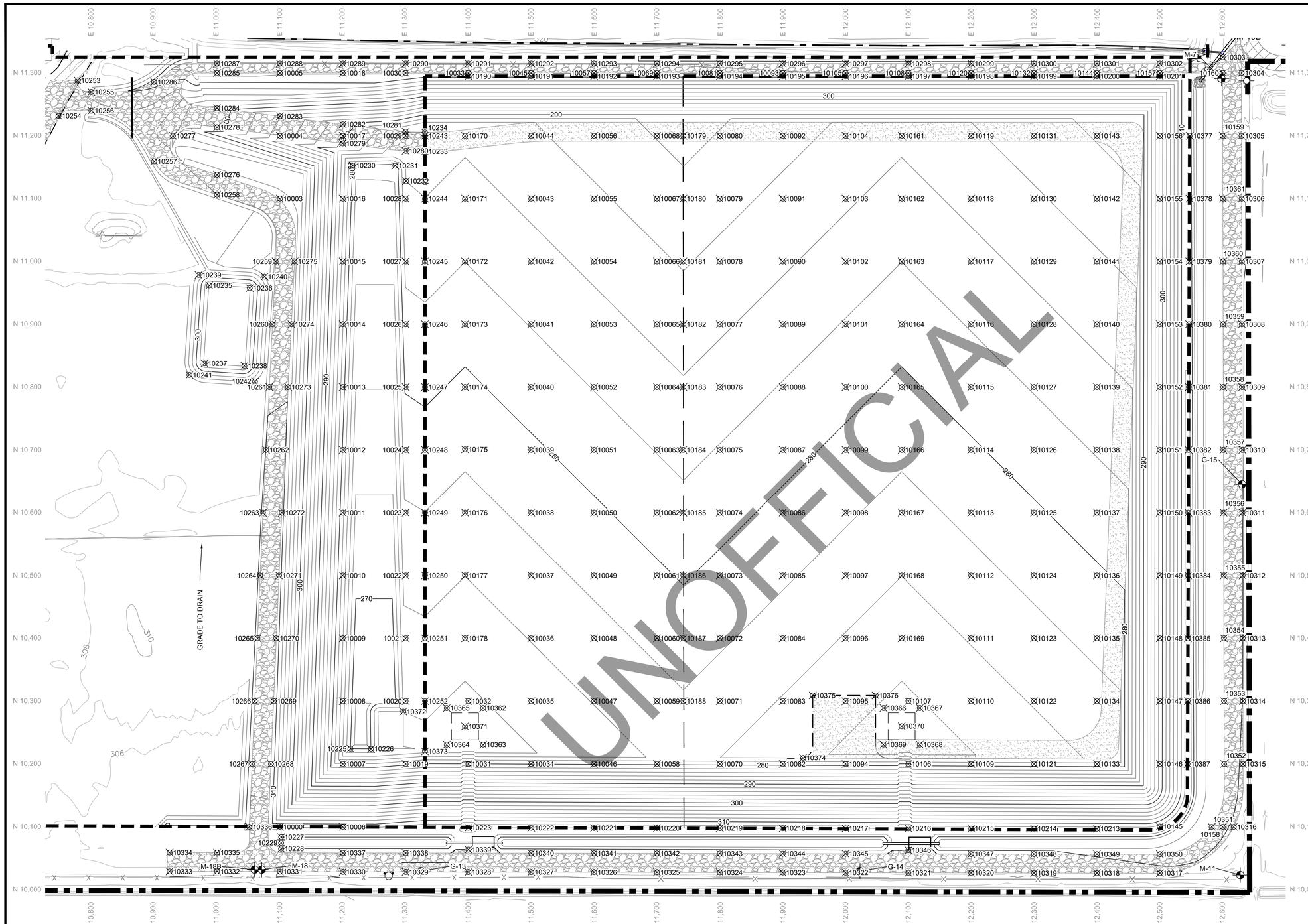
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
TOP OF OPERATIONS LAYER PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C8
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 8 OF 38



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 EXISTING CONTOUR
- 300 PROPOSED CONTOUR
- EXISTING ROAD
- X X EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ROAD
- PROPOSED GRAVEL / PROPOSED ROAD (CLASS 2 AGG.) 12" THICK
- PROPOSED COMPACTED SOIL. 12" THICK
- M-4 GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- SPOT ELEVATION

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
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6. SOIL ACCESS ROAD TO BE ADDITIONAL 12" OPERATIONS COMPACTED TO 90% DENSITY (ASTM D1557).
7. SPOT ELEVATION POINTS REPRESENT TOP OF THE OPERATIONS SOIL LAYER. THE COMPACTED SOIL ACCESS ROAD AND TURN AROUND AREA TO BE AN ADDITIONAL 12-INCHES OF OPERATIONS LAYER SOIL COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D1557 AT +/- 3% OF OPTIMUM MOISTURE.

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

SPOT ELEVATION POINTS PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C8A
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 9 OF 38

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)*	DESCRIPTION
10000	10100.00	11100.00	311.72	PROPOSED GRADE
10003	11100.00	11100.00	308.49	EDGE AGG. ROAD
10004	11200.00	11100.00	295.18	EDGE AGG. ROAD
10005	11300.00	11100.00	312.87	EDGE AGG. ROAD
10006	10100.00	11200.00	311.57	PROPOSED GRADE
10007	10200.00	11200.00	278.24	PROPOSED GRADE
10008	10300.00	11200.00	274.99	PROPOSED GRADE
10009	10400.00	11200.00	276.19	PROPOSED GRADE
10010	10500.00	11200.00	277.39	PROPOSED GRADE
10011	10600.00	11200.00	278.59	PROPOSED GRADE
10012	10700.00	11200.00	279.79	PROPOSED GRADE
10013	10800.00	11200.00	280.99	PROPOSED GRADE
10014	10900.00	11200.00	282.19	PROPOSED GRADE
10015	11000.00	11200.00	283.39	PROPOSED GRADE
10016	11100.00	11200.00	284.59	PROPOSED GRADE
10017	11200.00	11200.00	290.26	TOP AGG. ROAD
10018	11300.00	11200.00	312.77	EDGE AGG. ROAD
10019	10200.00	11300.00	277.48, 278.16, 279.39	PROPOSED GRADE
10020	10300.00	11300.00	274.21	PROPOSED GRADE
10021	10400.00	11300.00	275.40	PROPOSED GRADE
10022	10500.00	11300.00	276.58	PROPOSED GRADE
10023	10600.00	11300.00	277.76	PROPOSED GRADE
10024	10700.00	11300.00	278.95	PROPOSED GRADE
10025	10800.00	11300.00	280.13	PROPOSED GRADE
10026	10900.00	11300.00	281.31	PROPOSED GRADE
10027	11000.00	11300.00	282.47	PROPOSED GRADE
10028	11100.00	11300.00	283.48	PROPOSED GRADE
10029	11200.00	11300.00	285.86	TOP AGG. ROAD
10030	11300.00	11300.00	312.67	EDGE AGG. ROAD
10031	10200.00	11400.00	277.05, 278.05, 281.05	TOP OPS LAYER OVER PIPES (3')
10032	10300.00	11400.00	270.87, 271.85, 273.68	TOP OPS LAYER
10033	11300.00	11400.00	312.57	EDGE AGG. ROAD
10034	10200.00	11500.00	276.91, 277.91, 279.91	TOP OPS LAYER
10035	10300.00	11500.00	271.88, 272.88, 274.88	TOP OPS LAYER
10036	10400.00	11500.00	273.08, 274.08, 276.08	TOP OPS LAYER
10037	10500.00	11500.00	274.28, 275.28, 277.28	TOP OPS LAYER
10038	10600.00	11500.00	275.48, 276.48, 278.48	TOP OPS LAYER
10039	10700.00	11500.00	276.68, 277.68, 279.68	TOP OPS LAYER
10040	10800.00	11500.00	277.88, 278.88, 280.88	TOP OPS LAYER
10041	10900.00	11500.00	279.08, 280.08, 282.08	TOP OPS LAYER
10042	11000.00	11500.00	280.28, 281.28, 283.28	TOP OPS LAYER
10043	11100.00	11500.00	281.48, 282.48, 284.48	TOP OPS LAYER
10044	11200.00	11500.00	282.68, 283.68, 285.68**	TOP OPS LAYER SOIL ROAD
10045	11300.00	11500.00	312.47	EDGE AGG. ROAD
10046	10200.00	11600.00	276.76, 277.76, 279.76	TOP OPS LAYER
10047	10300.00	11600.00	273.08, 274.08, 276.08	TOP OPS LAYER
10048	10400.00	11600.00	274.28, 275.28, 277.28	TOP OPS LAYER
10049	10500.00	11600.00	275.48, 276.48, 278.48	TOP OPS LAYER
10050	10600.00	11600.00	276.68, 277.68, 279.68	TOP OPS LAYER
10051	10700.00	11600.00	277.88, 278.88, 280.88	TOP OPS LAYER
10052	10800.00	11600.00	279.08, 280.08, 282.08	TOP OPS LAYER
10053	10900.00	11600.00	280.28, 281.28, 283.28	TOP OPS LAYER
10054	11000.00	11600.00	281.48, 282.48, 284.48	TOP OPS LAYER
10055	11100.00	11600.00	282.68, 283.68, 285.68	TOP OPS LAYER
10056	11200.00	11600.00	283.88, 284.88, 286.88**	TOP OPS LAYER SOIL ROAD
10057	11300.00	11600.00	312.37	EDGE AGG. ROAD
10058	10200.00	11700.00	276.61, 277.61, 279.61	TOP OPS LAYER
10059	10300.00	11700.00	274.28, 275.28, 277.28	TOP OPS LAYER
10060	10400.00	11700.00	275.48, 276.48, 278.48	TOP OPS LAYER
10061	10500.00	11700.00	276.68, 277.68, 279.68	TOP OPS LAYER
10062	10600.00	11700.00	277.88, 278.88, 280.88	TOP OPS LAYER
10063	10700.00	11700.00	279.08, 280.08, 282.08	TOP OPS LAYER
10064	10800.00	11700.00	280.28, 281.28, 283.28	TOP OPS LAYER
10065	10900.00	11700.00	281.48, 282.48, 284.48	TOP OPS LAYER
10066	11000.00	11700.00	282.68, 283.68, 285.68	TOP OPS LAYER
10067	11100.00	11700.00	283.88, 284.88, 286.88	TOP OPS LAYER
10068	11200.00	11700.00	285.08, 286.08, 288.08**	TOP OPS LAYER SOIL ROAD
10069	11300.00	11700.00	312.27	EDGE AGG. ROAD
10070	10200.00	11800.00	276.46, 277.46, 279.46	TOP OPS LAYER

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)*	DESCRIPTION
10071	10300.00	11800.00	274.08, 275.08, 277.08	TOP OPS LAYER
10072	10400.00	11800.00	275.28, 276.28, 278.28	TOP OPS LAYER
10073	10500.00	11800.00	276.48, 277.48, 279.48	TOP OPS LAYER
10074	10600.00	11800.00	277.68, 278.68, 280.68	TOP OPS LAYER
10075	10700.00	11800.00	278.88, 279.88, 281.88	TOP OPS LAYER
10076	10800.00	11800.00	280.08, 281.08, 283.08	TOP OPS LAYER
10077	10900.00	11800.00	281.28, 282.28, 284.28	TOP OPS LAYER
10078	11000.00	11800.00	282.48, 283.48, 285.48	TOP OPS LAYER
10079	11100.00	11800.00	283.68, 284.68, 286.68	TOP OPS LAYER
10080	11200.00	11800.00	284.88, 285.88, 287.88**	TOP OPS LAYER SOIL ROAD
10081	11300.00	11800.00	312.17	EDGE AGG. ROAD
10082	10200.00	11900.00	276.31, 277.31, 279.31	TOP OPS LAYER
10083	10300.00	11900.00	272.88, 273.88, 275.88	TOP OPS LAYER
10084	10400.00	11900.00	274.08, 275.08, 277.08	TOP OPS LAYER
10085	10500.00	11900.00	275.28, 276.28, 278.28	TOP OPS LAYER
10086	10600.00	11900.00	276.48, 277.48, 279.48	TOP OPS LAYER
10087	10700.00	11900.00	277.68, 278.68, 280.68	TOP OPS LAYER
10088	10800.00	11900.00	278.88, 279.88, 281.88	TOP OPS LAYER
10089	10900.00	11900.00	280.08, 281.08, 283.08	TOP OPS LAYER
10090	11000.00	11900.00	281.28, 282.28, 284.28	TOP OPS LAYER
10091	11100.00	11900.00	282.48, 283.48, 285.48	TOP OPS LAYER
10092	11200.00	11900.00	283.68, 284.68, 286.68**	TOP OPS LAYER SOIL ROAD
10093	11300.00	11900.00	312.07	EDGE AGG. ROAD
10094	10200.00	12000.00	276.17, 277.17, 279.17	TOP OPS LAYER
10095	10300.00	12000.00	271.68, 272.68, 274.68**	TOP OPS LAYER SOIL ROAD /PAD
10096	10400.00	12000.00	272.88, 273.88, 275.88	TOP OPS LAYER
10097	10500.00	12000.00	274.08, 275.08, 277.08	TOP OPS LAYER
10098	10600.00	12000.00	275.28, 276.28, 278.28	TOP OPS LAYER
10099	10700.00	12000.00	276.48, 277.48, 279.48	TOP OPS LAYER
10100	10800.00	12000.00	277.68, 278.68, 280.68	TOP OPS LAYER
10101	10900.00	12000.00	278.88, 279.88, 281.88	TOP OPS LAYER
10102	11000.00	12000.00	280.08, 281.08, 283.08	TOP OPS LAYER
10103	11100.00	12000.00	281.28, 282.28, 284.28	TOP OPS LAYER
10104	11200.00	12000.00	282.48, 283.48, 285.48**	TOP OPS LAYER SOIL ROAD
10105	11300.00	12000.00	311.97	EDGE AGG. ROAD
10106	10200.00	12100.00	276.02, 277.02, 280.14	TOP OPS LAYER OVER PIPES (3')
10107	10300.00	12100.00	270.87, 271.85, 273.74	TOP OPS LAYER
10108	11300.00	12100.00	311.87	EDGE AGG. ROAD
10109	10200.00	12200.00	275.87, 276.87, 278.87	TOP OPS LAYER
10110	10300.00	12200.00	271.94, 272.94, 274.94	TOP OPS LAYER
10111	10400.00	12200.00	273.14, 274.14, 276.14	TOP OPS LAYER
10112	10500.00	12200.00	274.34, 275.34, 277.34	TOP OPS LAYER
10113	10600.00	12200.00	275.54, 276.54, 278.54	TOP OPS LAYER
10114	10700.00	12200.00	276.74, 277.74, 279.74	TOP OPS LAYER
10115	10800.00	12200.00	277.94, 278.94, 280.94	TOP OPS LAYER
10116	10900.00	12200.00	279.14, 280.14, 282.14	TOP OPS LAYER
10117	11000.00	12200.00	280.34, 281.34, 283.34	TOP OPS LAYER
10118	11100.00	12200.00	281.54, 282.54, 284.54	TOP OPS LAYER
10119	11200.00	12200.00	282.74, 283.74, 285.74**	TOP OPS LAYER SOIL ROAD
10120	11300.00	12200.00	311.77	EDGE AGG. ROAD
10121	10200.00	12300.00	275.72, 276.72, 278.72	TOP OPS LAYER
10122	10300.00	12300.00	273.14, 274.14, 276.14	TOP OPS LAYER
10123	10400.00	12300.00	274.34, 275.34, 277.34	TOP OPS LAYER
10124	10500.00	12300.00	275.54, 276.54, 278.54	TOP OPS LAYER
10125	10600.00	12300.00	276.74, 277.74, 279.74	TOP OPS LAYER
10126	10700.00	12300.00	277.94, 278.94, 280.94	TOP OPS LAYER
10127	10800.00	12300.00	279.14, 280.14, 282.14	TOP OPS LAYER
10128	10900.00	12300.00	280.34, 281.34, 283.34	TOP OPS LAYER
10129	11000.00	12300.00	281.54, 282.54, 284.54	TOP OPS LAYER
10130	11100.00	12300.00	282.74, 283.74, 285.74	TOP OPS LAYER
10131	11200.00	12300.00	283.94, 284.94, 286.94**	TOP OPS LAYER SOIL ROAD
10132	11300.00	12300.00	311.67	EDGE AGG. ROAD
10133	10200.00	12400.00	275.57, 276.57, 278.57	TOP OPS LAYER
10134	10300.00	12400.00	274.34, 275.34, 277.34	TOP OPS LAYER
10135	10400.00	12400.00	275.54, 276.54, 278.54	TOP OPS LAYER
10136	10500.00	12400.00	276.74, 277.74, 279.74	TOP OPS LAYER
10137	10600.00	12400.00	277.94, 278.94, 280.94	TOP OPS LAYER
10138	10700.00	12400.00	279.14, 280.14, 282.14	TOP OPS LAYER
10139	10800.00	12400.00	280.34, 281.34, 283.34	TOP OPS LAYER

POINT NO.	NORTHING (ft)	EASTING (FT)	ELEVATION (ft)*	DESCRIPTION
10140	10900.00	12400.00	281.54, 282.54, 284.54	TOP OPS LAYER
10141	11000.00	12400.00	282.74, 283.74, 285.74	TOP OPS LAYER
10142	11100.00	12400.00	283.94, 284.94, 286.94	TOP OPS LAYER
10143	11200.00	12400.00	285.14, 286.14, 288.14**	TOP OPS LAYER SOIL ROAD
10144	11300.00	12400.00	311.57	EDGE AGG. ROAD
10145	10100.00	12500.00	309.79, 310.79, 312.79	TOP OPS LAYER
10146	10200.00	12500.00	295.70, 296.70, 298.70	TOP OPS LAYER
10147	10300.00	12500.00	295.67, 296.67, 298.67	TOP OPS LAYER
10148	10400.00	12500.00	295.64, 296.64, 298.64	TOP OPS LAYER
10149	10500.00	12500.00	295.61, 296.61, 298.61	TOP OPS LAYER
10150	10600.00	12500.00	295.57, 296.57, 298.57	TOP OPS LAYER
10151	10700.00	12500.00	295.54, 296.54, 298.54	TOP OPS LAYER
10152	10800.00	12500.00	295.51, 296.51, 298.51	TOP OPS LAYER
10153	10900.00	12500.00	295.48, 296.48, 298.48	TOP OPS LAYER
10154	11000.00	12500.00	295.45, 296.45, 298.45	TOP OPS LAYER
10155	11100.00	12500.00	295.42, 296.42, 298.42	TOP OPS LAYER
10156	11200.00	12500.00	295.39, 296.39, 298.39	TOP OPS LAYER
10157	11300.00	12500.00	311.47	EDGE AGG. ROAD
10158	10100.00	12600.00	309.83	EDGE AGG. ROAD
10159	11200.00	12600.00	308.73	EDGE AGG. ROAD
10160	11300.00	12600.00	310.98	EDGE AGG. ROAD
10161	11200.00	12089.29	281.41, 282.41, 284.41**	TOP OPS LAYER SOIL ROAD AT EAST LCRS TRENCH
10162	11100.00	12089.29	280.21, 281.21, 283.21	TOP OPS LAYER AT EAST LCRS TRENCH
10163	11000.00	12089.29	279.01, 280.01, 282.01	TOP OPS LAYER AT EAST LCRS TRENCH
10164	10900.00	12089.29	277.81, 278.81, 280.81	TOP OPS LAYER AT EAST LCRS TRENCH
10165	10800.00	12089.29	276.61, 277.61, 279.61	TOP OPS LAYER AT EAST LCRS TRENCH
10166	10700.00	12089.29	275.41, 276.41, 278.41	TOP OPS LAYER AT EAST LCRS TRENCH
10167	10600.00	12089.29	274.21, 275.21, 277.21	TOP OPS LAYER AT EAST LCRS TRENCH
10168	10500.00	12089.28	273.01, 274.01, 276.01	TOP OPS LAYER AT EAST LCRS TRENCH
10169	10400.00	12089.27	271.85, 272.81, 274.81	TOP OPS LAYER AT EAST LCRS TRENCH
10170	11200.00	11394.55	281.41, 282.41, 284.41**	TOP OPS LAYER SOIL ROAD AT WEST LCRS TRENCH
10171	11100.00	11394.55	280.21, 281.21, 283.21	TOP OPS LAYER AT EAST LCRS TRENCH
10172	11000.00	11394.55	279.01, 280.01, 282.01	TOP OPS LAYER AT EAST LCRS TRENCH
10173	10900.00	11394.55	277.81, 278.81, 280.81	TOP OPS LAYER AT EAST LCRS TRENCH
10174	10800.00	11394.55	276.61, 277.61, 279.61	TOP OPS LAYER AT EAST LCRS TRENCH
10175	10700.78	11394.54	275.42, 276.42, 278.42	TOP OPS LAYER AT EAST LCRS TRENCH
10176	10600.00	11394.54	274.21, 275.21, 277.21	TOP OPS LAYER AT EAST LCRS TRENCH
10177	10500.00	11394.54	273.01, 274.01, 276.01	TOP OPS LAYER AT EAST LCRS TRENCH
10178	10400.00	11394.53	271.85, 272.81, 274.81	TOP OPS LAYER AT EAST LCRS TRENCH
10179	11200.00	11741.92	285.58, 286.58, 288.58**	TOP OPS LAYER SOIL ROAD AT LCRS RIDGE
10180	11100.00	11741.92	284.38, 285.38, 287.38	TOP OPS LAYER AT LCRS RIDGE
10181	11000.00	11741.92	283.18, 284.18, 286.18	TOP OPS LAYER AT LCRS RIDGE
10182	10900.00	11741.91	281.98, 282.98, 284.98	TOP OPS LAYER AT LCRS RIDGE
10183	10800.00	11741.98	280.78, 281.78, 283.78	TOP OPS LAYER AT LCRS RIDGE
10184	10700.00	11741.91	279.58, 280.58, 282.58	TOP OPS LAYER AT LCRS RIDGE
10185	10600.00	11741.91	278.38, 279.38, 281.38	TOP OPS LAYER AT LCRS RIDGE
10186	10500.00	11741.91	277.18, 278.18, 280.18	TOP OPS LAYER AT LCRS RIDGE
10187	10400.00	11741.91	275.98, 276.98, 278.98	TOP OPS LAYER AT LCRS RIDGE
10188	10300.00	11741.90	274.78, 275.78, 277.78	TOP OPS LAYER AT LCRS RIDGE
10189	11295.00	11300.00	309.55, 310.17, 310.68	PROPOSED GRADE
10190	11295.00	11400.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10191	11295.00	11500.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10192	11295.00	11600.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10193	11295.00	11700.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10194	11295.00	11800.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10195	11295.00	11900.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10196	11295.00	12000.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10197	11295.00	12100.00	307.50, 308.51, 310.51	ANCHOR TRENCH
10198	11295.00	12200.00	307.51, 308.51, 310.51	ANCHOR TRENCH
10199	11295.00	12300.00	307.51, 308.51, 310.51	ANCHOR TRENCH
10200	11295.00	12400.00	307.51, 308.51, 310.51	ANCHOR TRENCH
10201	11295.00	12500.00	307.51, 308.51, 310.51	ANCHOR TRENCH
10202	11200.00	12539.72	308.63, 309.63, 311.63	ANCHOR TRENCH
10203	11100.00	12539.93	308.73, 309.73, 311.73	ANCHOR TRENCH
10204	11000.00	12540.13	308.83, 309.83, 311.83	ANCHOR TRENCH
10205	10900.00	12540.34	308.93, 309.93, 311.93	ANCHOR TRENCH
10206	10800.00	12540.54	309.03, 310.03, 312.03	ANCHOR TRENCH

POINT NO.	NORTHING (ft)	EASTING (FT)	ELEVATION (ft)*	DESCRIPTION
10207	10700.00	12540.75	309.13, 310.13, 312.13	ANCHOR TRENCH
10208	10600.00	12540.96	309.23, 310.23, 312.23	ANCHOR TRENCH
10209	10500.00	12541.16	309.33, 310.33, 312.33	ANCHOR TRENCH
10210	10400.00	12541.37	309.43, 310.43, 312.43	ANCHOR TRENCH
10211	10300.00	12541.57	309.53, 310.53, 312.53	ANCHOR TRENCH
10212	10200.00	12541.78	309.63, 310.63, 312.63	ANCHOR TRENCH
10213	10097.02	12400.00	309.90, 310.90, 312.81	ANCHOR TRENCH
10214	10097.18	12300.00	310.00, 311.00, 312.64	ANCHOR TRENCH
10215	10097.34	12200.00	310.09, 311.09, 312.46	ANCHOR TRENCH
10216	10097.48	12100.00	310.19, 311.19, 314.15	ANCHOR TRENCH AT 3' OPS LAYER
10217	10097.61	12000.00	310.30, 311.30, 312.44	ANCHOR TRENCH
10218	10097.76	11900.00	310.39, 311.39, 312.54	ANCHOR TRENCH
10219	10097.91	11800.00	310.49, 311.49, 312.63	ANCHOR TRENCH
10220	10098.06	11700.00	310.59, 311.59, 312.73	ANCHOR TRENCH
10221	10098.21	11600.00	310.69, 311.69, 312.82	ANCHOR TRENCH
10222	10098.36	11500.00	310.78, 311.78, 312.92	ANCHOR TRENCH
10223	10098.50	11400.00	310.89, 311.89, 314.980	ANCHOR TRENCH AT 3' OPS LAYER
10224	10098.61	11300.00	311.37, 311.98, 313.21	PROPOSED GRADE
10225	10224.67	11212.27	270.00	PROPOSED GRADE AT TEMP BASIN
10226	10224.52	11244.91	270.00	PROPOSED GRADE AT TEMP BASIN
10227	10083.64	11102.09	310.00	PROPOSED GRADE AT SWALE TOP
10228	10065.35	11102.00	310.00	PROPOSED GRADE AT SWALE TOP
10229	10074.49	11102.09	307.41	PROPOSED GRADE AT SWALE BOTTOM
10230	11152.80	11215.68	280.00	PROPOSED GRADE
10231	11152.32	11283.58	280.00	PROPOSED GRADE
10232	11127.66	11300.73	284.00	PROPOSED GRADE
10233	11175.17	11330.86	281.89, 282.89, 284.89	EDGE AGG. ROAD AT OPS LAYER SOIL ROAD AT ANCHOR TRENCH
10234	11205.40	11330.88	282.25, 283.25, 285.25	EDGE AGG. ROAD AT OPS LAYER SOIL ROAD AT ANCHOR TRENCH
10235	10962.00	10987.66	296.00	PROPOSED GRADE AT TEMP BASIN BOTTOM
10236	10957.70	11051.94	296.00	PROPOSED GRADE AT TEMP BASIN BOTTOM
10237	10837.67	10980.03	296.00	PROPOSED GRADE AT TEMP BASIN BOTTOM
10238	10833.73	11043.50	296.00	PROPOSED GRADE AT TEMP BASIN BOTTOM
10239	10978.64	10970.50	304.00	PROPOSED GRADE AT TEMP BASIN TOP
10240	10975.89	11075.72	306.00	PROPOSED GRADE AT TEMP BASIN TOP
10241	10819.26	10956.23	306.00	PROPOSED GRADE AT TEMP BASIN TOP
10242	10808.96	11060.43	306.00	PROPOSED GRADE AT TEMP BASIN TOP
10243	11200.00	11330.86	282.18, 283.18, 285.18	TOP AGG. ROAD AT OPS LAYER SOIL ROAD AT ANCHOR TRENCH
10244	11100.00	11330.86	280.98, 281.98, 283.98	ANCHOR TRENCH - SOIL BERM ON TOP
10245	11000.00	11330.86	279.78, 280.78, 282.78	ANCHOR TRENCH - SOIL BERM ON TOP
10246	10900.00	11330.86	278.58, 279.58, 281.58	ANCHOR TRENCH - SOIL BERM ON TOP
10247	10800.00	11330.86	277.38, 278.38, 280.38	ANCHOR TRENCH - SOIL BERM ON TOP
10248	10700.00	11330.86	276.18, 277.18, 279.18	ANCHOR TRENCH - SOIL BERM ON TOP
10249	10600.00	11330.86	274.98, 275.98, 277.98	ANCHOR TRENCH - SOIL BERM ON TOP
10250	10500.00	11330.86	273.78, 274.78, 276.78	ANCHOR TRENCH - SOIL BERM ON TOP
10251	10400.00	11330.86	272.58, 273.58, 275.58	ANCHOR TRENCH - SOIL BERM ON TOP
10252	10300.00	11330.86	271.38, 272.38, 274.38	ANCHOR TRENCH - SOIL BERM ON TOP
10253	11288.26	10778.17	307.39	EDGE AGG. ROAD
10254	11231.48	10747.73	307.00	EDGE AGG. ROAD
10255	11269.91	10800.00	308.43	EDGE AGG. ROAD
10256	11239.71	10800.00	307.19	EDGE AGG. ROAD
10257	11159.43	10900.00	307.62	EDGE AGG. ROAD
10258	11106.33	11000.00	308.00	EDGE AGG. ROAD
10259	11000.00	11093.33	308.62	EDGE AGG. ROAD

NOTES

* WHERE PRESENT, THE ELEVATIONS FOR THE BOTTOM OF THE PREPARED SUBGRADE, TOP OF THE PREPARED SUBGRADE, AND TOP OF OPERATIONS LAYER ARE ALL SHOWN.

** ELEVATION REPRESENTS TOP OF OPERATIONS LAYER. SOIL ROAD IS 1' HIGHER ON FILL.

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

SPOT ELEVATION POINTS TABLE

PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWING NO. **C8B**
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR
SHEET 10 OF 38

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)*	DESCRIPTION
10260	10900.00	11088.00	309.09	EDGE AGG. ROAD
10261	10800.00	11083.22	309.75	EDGE AGG. ROAD
10262	10700.00	11078.16	310.31	EDGE AGG. ROAD
10263	10600.00	11073.10	310.87	EDGE AGG. ROAD
10264	10500.00	11068.63	311.18	EDGE AGG. ROAD
10265	10400.00	11064.33	311.41	EDGE AGG. ROAD
10266	10300.00	11060.03	311.65	EDGE AGG. ROAD
10267	10200.00	11055.73	311.88	EDGE AGG. ROAD
10268	10200.00	11085.76	311.87	EDGE AGG. ROAD
10269	10300.00	11090.06	311.64	EDGE AGG. ROAD
10270	10400.00	11094.36	311.41	EDGE AGG. ROAD
10271	10500.00	11098.65	311.18	EDGE AGG. ROAD
10272	10600.00	11103.14	310.88	EDGE AGG. ROAD
10273	10799.94	11113.25	309.89	EDGE AGG. ROAD
10274	10900.00	11118.31	309.39	EDGE AGG. ROAD
10275	11000.00	11123.37	308.89	EDGE AGG. ROAD
10276	11137.87	11000.00	308.27	EDGE AGG. ROAD
10277	11200.00	10929.78	304.72	EDGE AGG. ROAD
10278	11213.54	11000.00	300.64	EDGE AGG. ROAD
10279	11188.00	11200.00	289.79	EDGE AGG. ROAD
10280	11176.11	11300.00	285.30	EDGE AGG. ROAD
10281	11206.35	11300.00	285.77	EDGE AGG. ROAD
10282	11218.10	11200.00	290.96	EDGE AGG. ROAD
10283	11230.94	11100.00	296.05	EDGE AGG. ROAD
10284	11243.78	11000.00	301.15	EDGE AGG. ROAD
10285	11300.00	11000.00	312.97	EDGE AGG. ROAD
10286	11285.90	10900.00	311.18	EDGE AGG. ROAD
10287	11315.00	11000.00	312.67	EDGE AGG. ROAD
10288	11315.00	11100.00	312.57	EDGE AGG. ROAD
10289	11315.00	11200.00	312.47	EDGE AGG. ROAD
10290	11315.00	11300.00	312.37	EDGE AGG. ROAD
10291	11315.00	11400.00	312.27	EDGE AGG. ROAD
10292	11315.00	11500.00	312.17	EDGE AGG. ROAD
10293	11315.00	11600.00	312.07	EDGE AGG. ROAD
10294	11315.00	11700.00	311.97	EDGE AGG. ROAD
10295	11315.00	11800.00	311.87	EDGE AGG. ROAD
10296	11315.00	11900.00	311.77	EDGE AGG. ROAD
10297	11315.00	12000.00	311.67	EDGE AGG. ROAD
10298	11315.00	12100.00	311.57	EDGE AGG. ROAD
10299	11315.00	12200.00	311.47	EDGE AGG. ROAD
10300	11315.00	12300.00	311.37	EDGE AGG. ROAD
10301	11315.00	12400.00	311.27	EDGE AGG. ROAD
10302	11315.00	12500.00	311.17	EDGE AGG. ROAD
10303	11325.01	12600.00	311.50	EDGE AGG. ROAD
10304	11300.00	12630.15	310.93	EDGE AGG. ROAD
10305	11200.00	12630.06	309.33	EDGE AGG. ROAD
10306	11100.00	12630.30	309.36	EDGE AGG. ROAD
10307	11000.00	12630.55	309.40	EDGE AGG. ROAD
10308	10900.00	12630.79	309.43	EDGE AGG. ROAD
10309	10800.00	12631.03	309.53	EDGE AGG. ROAD
10310	10700.00	12631.27	309.63	EDGE AGG. ROAD
10311	10600.00	12631.51	309.73	EDGE AGG. ROAD
10312	10500.00	12631.75	309.83	EDGE AGG. ROAD
10313	10400.00	12631.99	309.92	EDGE AGG. ROAD
10314	10300.00	12632.23	310.02	EDGE AGG. ROAD
10315	10200.00	12632.47	310.12	EDGE AGG. ROAD
10316	10100.00	12617.65	310.17	EDGE AGG. ROAD
10317	10026.58	12500.00	310.24	EDGE AGG. ROAD
10318	10026.60	12400.00	310.51	EDGE AGG. ROAD
10319	10026.77	12300.00	310.79	EDGE AGG. ROAD
10320	10026.94	12200.00	311.07	EDGE AGG. ROAD
10321	10027.11	12100.00	311.19	EDGE AGG. ROAD
10322	10027.28	12000.00	311.28	EDGE AGG. ROAD
10323	10027.45	11900.00	311.38	EDGE AGG. ROAD
10324	10027.66	11800.00	311.47	EDGE AGG. ROAD
10325	10027.90	11700.00	311.56	EDGE AGG. ROAD
10326	10028.02	11600.00	311.55	EDGE AGG. ROAD
10327	10028.14	11500.00	311.54	EDGE AGG. ROAD
10328	10028.26	11400.00	311.53	EDGE AGG. ROAD
10329	10028.37	11300.00	311.51	EDGE AGG. ROAD

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)*	DESCRIPTION
10330	10028.49	11200.00	311.50	EDGE AGG. ROAD
10331	10028.90	11100.00	311.49	EDGE AGG. ROAD
10332	10029.09	11000.00	311.48	EDGE AGG. ROAD
10333	10029.19	10924.46	311.47	EDGE AGG. ROAD
10334	10059.19	10924.50	310.87	EDGE AGG. ROAD
10335	10059.09	11000.00	310.88	EDGE AGG. ROAD
10336	10100.00	11051.44	312.12	EDGE AGG. ROAD
10337	10058.49	11200.00	310.90	EDGE AGG. ROAD
10338	10058.37	11300.00	310.91	EDGE AGG. ROAD
10339	10063.81	11400.00	310.84	EDGE AGG. PAD
10340	10058.14	11500.00	310.94	EDGE AGG. ROAD
10341	10058.02	11600.00	310.95	EDGE AGG. ROAD
10342	10057.90	11700.00	310.96	EDGE AGG. ROAD
10343	10057.66	11800.00	310.87	EDGE AGG. ROAD
10344	10057.45	11900.00	310.78	EDGE AGG. ROAD
10345	10057.28	12000.00	310.68	EDGE AGG. ROAD
10346	10062.80	12100.00	310.98	EDGE AGG. PAD
10347	10056.94	12200.00	310.47	EDGE AGG. ROAD
10348	10056.77	12300.00	310.19	EDGE AGG. ROAD
10349	10056.60	12400.00	309.91	EDGE AGG. ROAD
10350	10056.57	12500.00	309.63	EDGE AGG. ROAD
10351	10100.00	12582.60	309.53	EDGE AGG. ROAD
10352	10200.00	12602.47	309.52	EDGE AGG. ROAD
10353	10300.00	12602.23	309.42	EDGE AGG. ROAD
10354	10400.00	12601.99	309.32	EDGE AGG. ROAD
10355	10500.00	12601.75	309.23	EDGE AGG. ROAD
10356	10600.00	12601.51	309.13	EDGE AGG. ROAD
10357	10700.00	12601.27	309.03	EDGE AGG. ROAD
10358	10800.00	12601.03	308.93	EDGE AGG. ROAD
10359	10900.00	12600.79	308.83	EDGE AGG. ROAD
10360	11000.00	12600.54	308.80	EDGE AGG. ROAD
10361	11100.00	12600.30	308.76	EDGE AGG. ROAD
10362	10289.05	11423.53	270.83, 271.83, 273.83	TOP OPS LAYER AT WEST SUMP PERIMETER
10363	10231.05	11423.53	270.14, 271.42, 273.14	TOP OPS LAYER AT WEST SUMP PERIMETER
10364	10231.05	11365.53	270.14, 271.54, 273.14	TOP OPS LAYER AT WEST SUMP PERIMETER
10365	10289.05	11365.53	270.83, 271.83, 273.83	TOP OPS LAYER AT WEST SUMP PERIMETER
10366	10289.17	12060.27	270.83, 271.83, 273.83	TOP OPS LAYER AT WEST SUMP PERIMETER
10367	10289.17	12118.27	270.83, 271.83, 273.83	TOP OPS LAYER AT EAST SUMP PERIMETER
10368	10231.17	12118.27	270.14, 271.61, 273.14	TOP OPS LAYER AT EAST SUMP PERIMETER
10369	10231.17	12060.27	270.14, 271.59, 273.14	TOP OPS LAYER AT EAST SUMP PERIMETER
10370	10260.17	12089.27	264.18, 265.18, 273.18	TOP OPS LAYER AT WEST SUMP CENTER
10371	10260.05	11394.53	264.14, 265.14, 273.14	TOP OPS LAYER AT WEST SUMP CENTER
10372	10283.44	11296.34	274.00	PROPOSED GRADE
10373	10220.21	11330.86	270.42, 271.42, 273.42	ANCHOR TRENCH - SOIL BERM ON TOP
10374	10209.80	11932.43	273.00, 274.00, 276.0	TOP OPS LAYER SOIL ROAD
10375	10309.25	11947.82	272.42, 273.42, 275.42	TOP OPS LAYER SOIL ROAD
10376	10309.25	12047.82	271.22, 272.22, 274.22	TOP OPS LAYER SOIL ROAD
10377	11200.00	12547.53	311.22	ANCHOR TRENCH
10378	11100.00	12547.18	311.60	ANCHOR TRENCH
10379	11000.00	12546.84	311.83	ANCHOR TRENCH
10380	10900.00	12546.49	311.93	ANCHOR TRENCH
10381	10800.00	12546.14	312.03	ANCHOR TRENCH
10382	10700.00	12545.80	312.13	ANCHOR TRENCH
10383	10600.00	12545.45	312.23	ANCHOR TRENCH
10384	10500.00	12545.16	312.33	ANCHOR TRENCH
10385	10400.00	12544.76	312.43	ANCHOR TRENCH
10386	10300.00	12544.41	312.53	ANCHOR TRENCH
10387	10200.00	12544.07	312.63	ANCHOR TRENCH

DETAIL SHEETS POINT TABLES
PROPOSED GRADE

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
4001	10074.45	11364.60	307.39	INVERT ELEVATION
4002	10079.65	11363.19	308.00	PROPOSED GRADE
4003	10083.65	11367.67	310.00	PROPOSED GRADE
4004	10087.90	11371.91	312.01	PROPOSED GRADE
4005	10104.29	11371.18	312.00	PROPOSED GRADE
4006	10079.08	11372.24	310.00	PROPOSED GRADE
4007	10081.57	11378.24	312.00	PROPOSED GRADE
4008	10083.59	11379.95	312.36	TOP OF AGGREGATE BASE
4009	10083.59	11383.07	312.51	TOP OF AGGREGATE BASE / CONCRETE APRON
4010	10100.44	11383.07	312.00	TOP OF CONCRETE APRON
4011	10083.59	11403.63	313.01	TOP OF CONCRETE APRON
4012	10100.45	11403.63	314.29	TOP OF CONCRETE APRON
4013	10083.59	11405.74	313.01	TOP OF CONCRETE APRON
4014	10095.33	11371.14	312.01	PROPOSED GRADE
4015	10093.33	11371.14	312.01	PROPOSED GRADE
5001	10074.33	11454.46	307.31	INVERT ELEVATION
5002	10072.07	11452.73	308.00	PROPOSED GRADE
5003	10079.27	11446.80	310.00	PROPOSED GRADE
5004	10083.72	11451.29	310.00	PROPOSED GRADE
5005	10087.98	11447.06	312.00	PROPOSED GRADE
5006	10069.63	11446.71	310.00	PROPOSED GRADE
5007	10074.45	11446.75	310.00	PROPOSED GRADE
5008	10065.03	11451.26	310.00	PROPOSED GRADE
5009	10067.51	11405.84	311.21	GRADE OUTSIDE CONTAINMENT STRUCTURE
5010	10084.92	11405.84	313.18	GRADE OUTSIDE CONTAINMENT STRUCTURE
5011	10084.92	11441.22	312.14	GRADE OUTSIDE CONTAINMENT STRUCTURE
5012	10067.51	11441.26	310.99	GRADE OUTSIDE CONTAINMENT STRUCTURE
6001	10073.50	12059.33	306.72	INVERT ELEVATION
6002	10080.03	12056.53	308.00	PROPOSED GRADE
6003	10084.03	12061.02	310.00	PROPOSED GRADE
6004	10088.03	12065.50	312.00	PROPOSED GRADE
6005	10092.32	12065.36	312.00	PROPOSED GRADE
6006	10094.32	12065.36	312.00	PROPOSED GRADE
6007	10101.21	12065.36	312.00	PROPOSED GRADE
6008	10078.08	12066.98	310.00	PROPOSED GRADE
6009	10080.57	12073.00	312.00	PROPOSED GRADE
6010	10082.58	12074.69	312.26	TOP OF AGGREGATE BASE
6011	10082.58	12077.81	312.35	TOP OF AGGREGATE BASE / CONCRETE APRON
6012	10099.44	12077.81	312.00	TOP OF CONCRETE APRON
6013	10082.58	12098.37	312.72	TOP OF CONCRETE APRON
6014	10099.43	12098.37	313.55	TOP OF CONCRETE APRON
6015	10082.58	12100.48	312.69	TOP OF CONCRETE APRON
7001	10073.37	12149.19	306.64	INVERT ELEVATION
7002	10066.64	12151.83	308.00	PROPOSED GRADE
7003	10062.66	12147.33	310.00	PROPOSED GRADE
7004	10080.08	12151.88	308.00	PROPOSED GRADE
7005	10084.08	12147.39	310.00	PROPOSED GRADE
7006	10088.10	12142.90	312.00	PROPOSED GRADE
7007	10071.07	12147.46	308.00	PROPOSED GRADE
7008	10068.62	12141.44	310.00	PROPOSED GRADE
7009	10078.26	12141.52	310.00	PROPOSED GRADE
7010	10075.74	12147.50	308.00	PROPOSED GRADE
7011	10066.50	12100.58	311.31	GRADE OUTSIDE CONTAINMENT STRUCTURE
7012	10083.91	12100.58	312.82	GRADE OUTSIDE CONTAINMENT STRUCTURE
7013	10083.91	12135.96	312.00	GRADE OUTSIDE CONTAINMENT STRUCTURE
7014	10066.50	12135.99	311.00	GRADE OUTSIDE CONTAINMENT STRUCTURE

NOTES

* WHERE PRESENT, THE ELEVATIONS FOR THE BOTTOM OF THE PREPARED SUBGRADE, TOP OF THE PREPARED SUBGRADE, AND TOP OF OPERATIONS LAYER ARE ALL SHOWN.

REV. NO.	DATE	DESCRIPTION

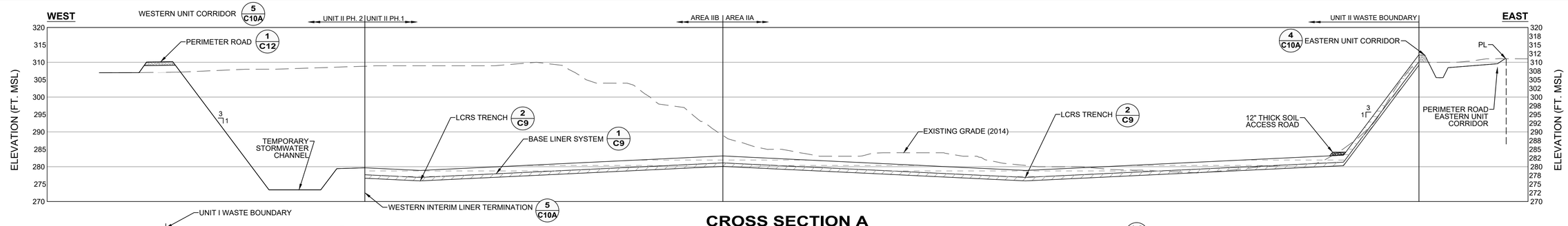
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

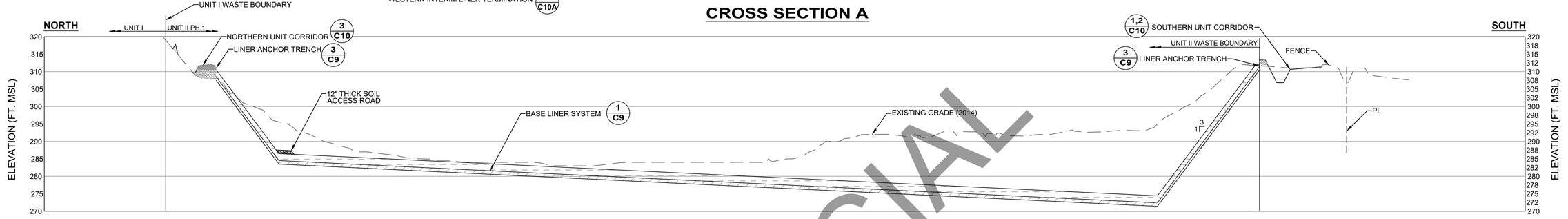
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

SPOT ELEVATION POINTS TABLE

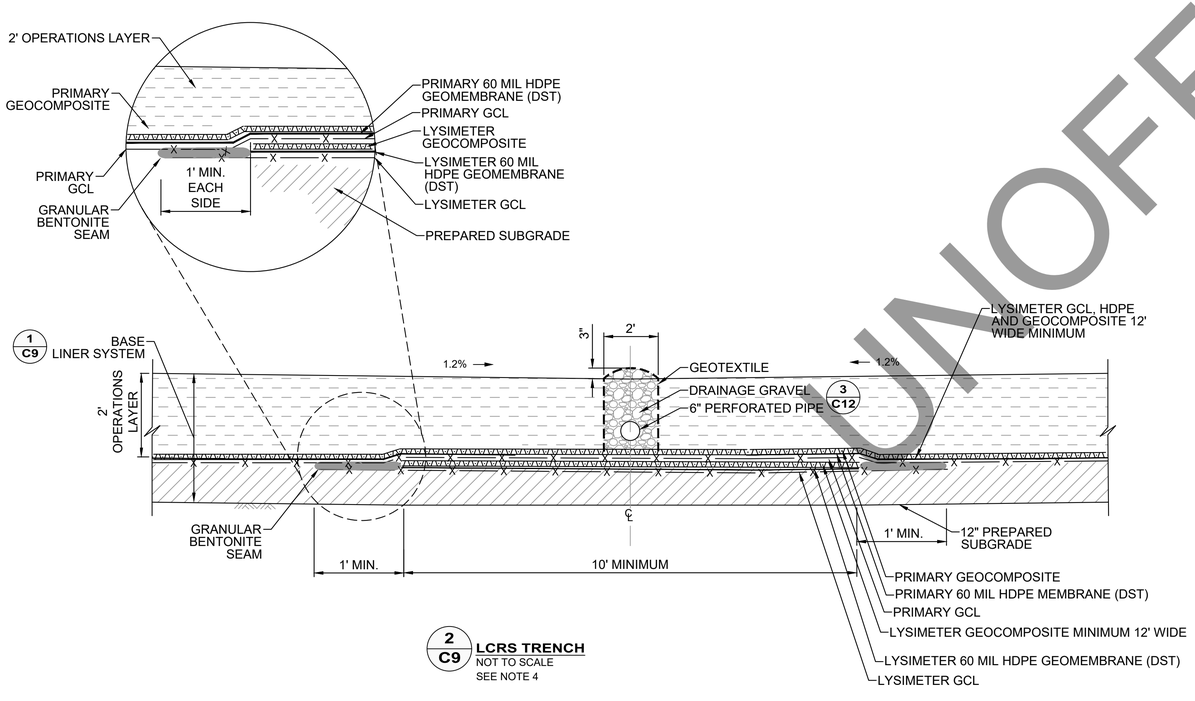
PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWING NO.
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR
C8C
SHEET 11 OF 38



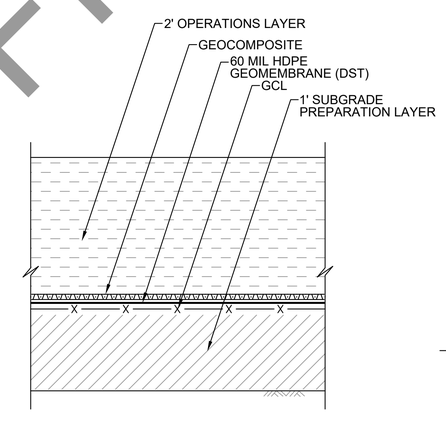
CROSS SECTION A



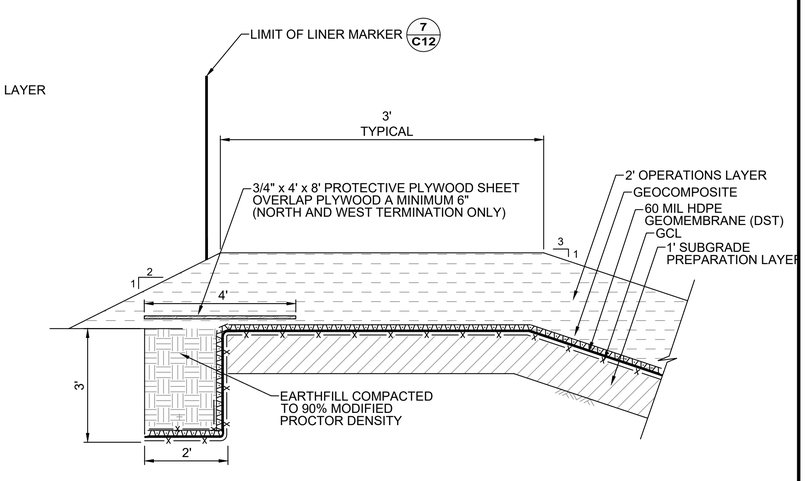
CROSS SECTION B



2 C9 LCRS TRENCH
NOT TO SCALE
SEE NOTE 4



1 C9 BASE LINER
NOT TO SCALE



3 C9 TYPICAL SIDE SLOPE LINER TERMINATION
NOT TO SCALE

NOTES:
1. SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
2. LINER MATERIAL THICKNESS HAS BEEN EXAGGERATED FOR CLARITY.
3. BASE LINER TYPICAL FOR FLOOR AND SIDE SLOPES.
4. EXTEND LYSIMETER GCL ONE FOOT LYSIMETER HDPE AND GEOCOMPOSITE. ADD GRANULAR BENTONITE AND SEAM LYSIMETER GCL TO PRIMARY GCL.

REV. NO.	DATE	DESCRIPTION

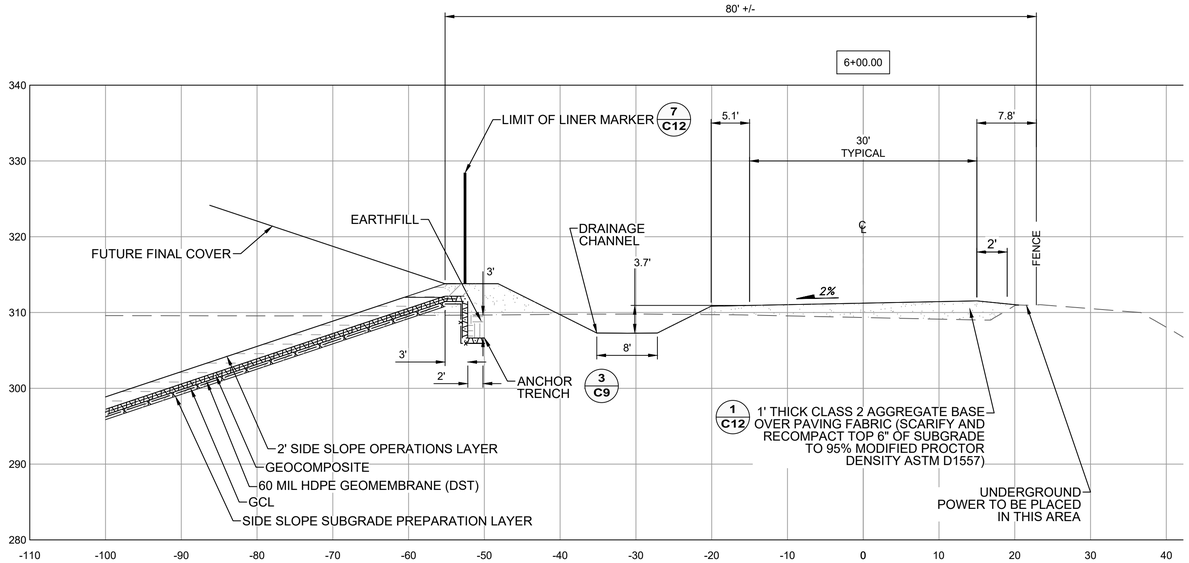
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

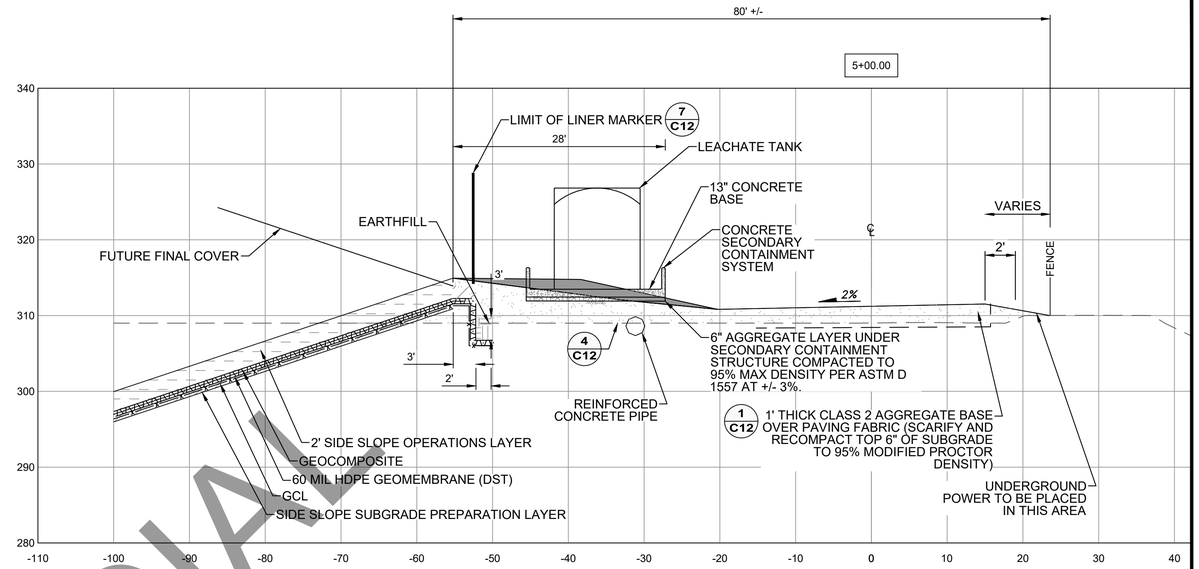
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
SECTIONS AND BASE LINER DETAILS

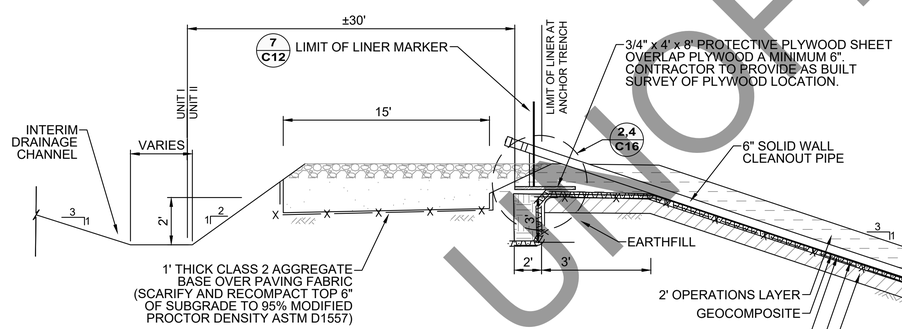
PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C9
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 12 OF 38



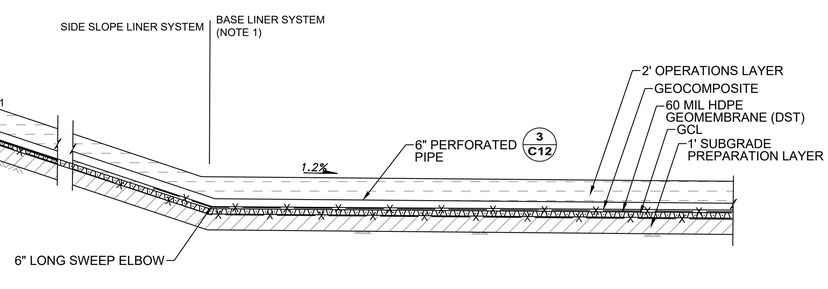
1 C10 SOUTHERN UNIT CORRIDOR (TYPICAL)
NOT TO SCALE



2 C10 SOUTHERN UNIT CORRIDOR TYPICAL AT LEACHATE STORAGE
NOT TO SCALE



3 C10 NORTHERN UNIT CORRIDOR (TYP. SECTION)
NOT TO SCALE



NOTES:

1. THE BASE (FLOOR) LINER SYSTEM AND SIDE SLOPE LINER SYSTEM ARE THE SAME. LYSIMETER TO BE CONSTRUCTED BENEATH PIPES AND SUMPS.

REV. NO.	DATE	DESCRIPTION

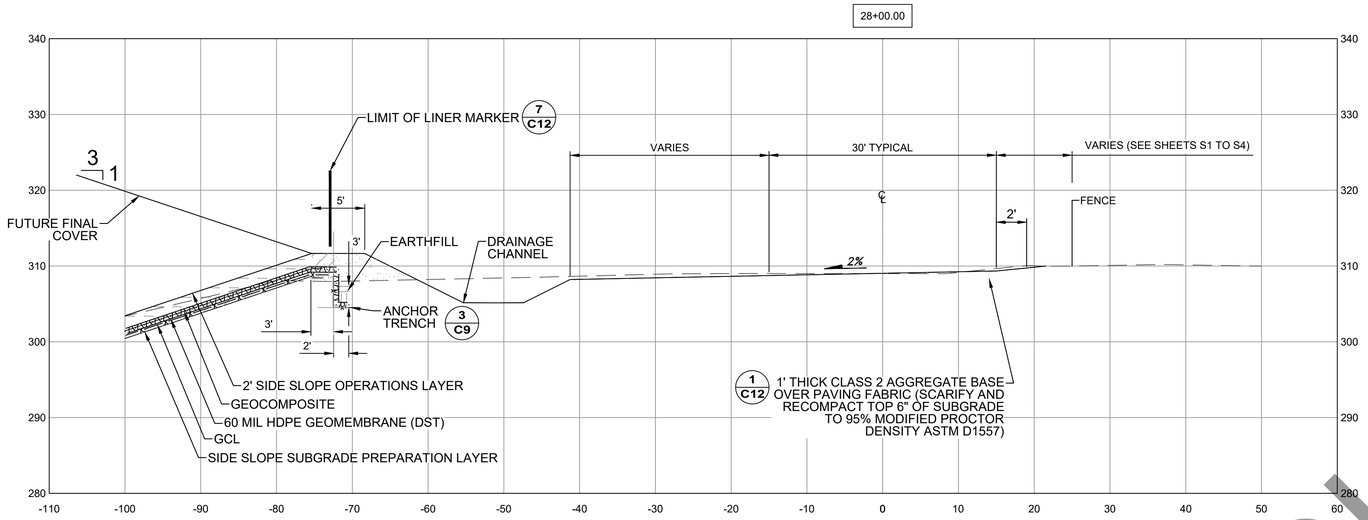
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

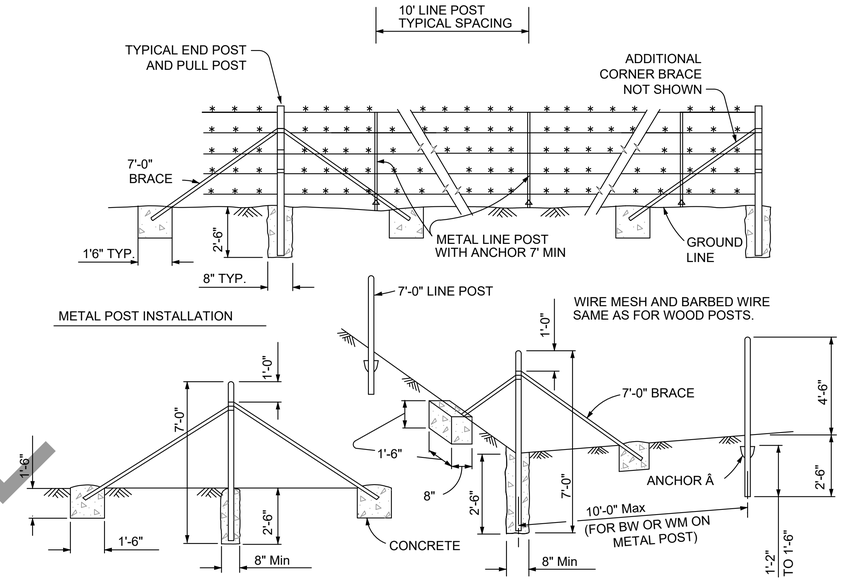
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
SECTIONS AND BASE LINER DETAILS

PROJ. NO.: 631021443	DATE: APRIL 2021	DRAWING NO.	
DESIGNED BY: PFB		C10	
DRAWN BY: BWM/NV/SJL			
CHECKED BY: MWO			
APPROVED BY: CMR		SHEET 13 OF 38	



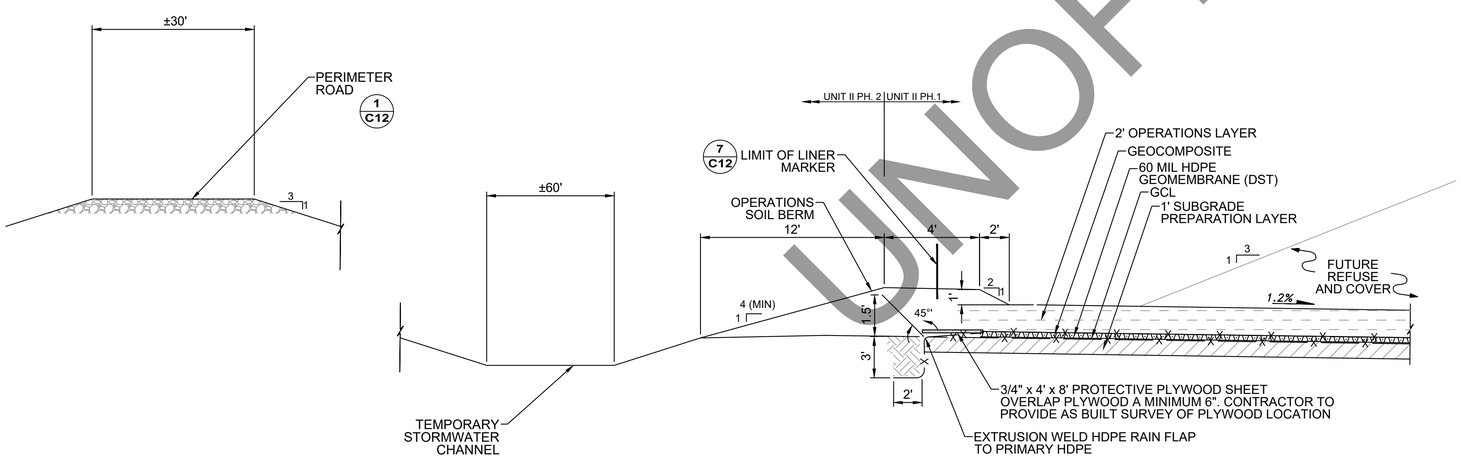
4 C10A EASTERN UNIT CORRIDOR (TYPICAL)
NOT TO SCALE



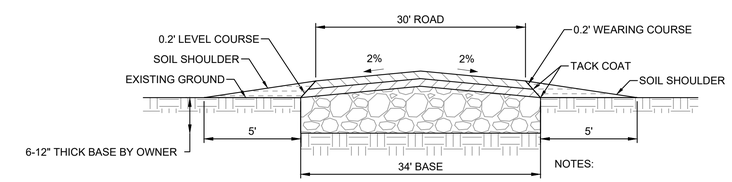
8 C10A 5-STRAND BARBED WIRE FENCE DETAIL
NOT TO SCALE

NOTES:

1. REFER TO SECTION 80 OF THE 2018 CALTRANS STANDARD SPECIFICATIONS AND TECHNICAL SPECIFICATION 02444 FOR ADDITIONAL INFORMATION. LINE POSTS TO BE METAL WITH ANCHORS, MINIMUM 7-FEET IN LENGTH, SET A MAXIMUM OF 10-FEET APART. CORNER POST ASSEMBLY TO BE CONSTRUCTED AT THE EAST END OF FENCE AND EXISTING FENCE ATTACHED. END POST ASSEMBLY TO BE CONSTRUCTED AT THE WEST END OF FENCE AND EXISTING FENCE ATTACHED. PULL POST ASSEMBLY TO BE CONSTRUCTED IN APPROXIMATE CENTER OF NEW FENCE. CORNER POST, END POST AND PULL POSTS TO BE SET IN CONCRETE.



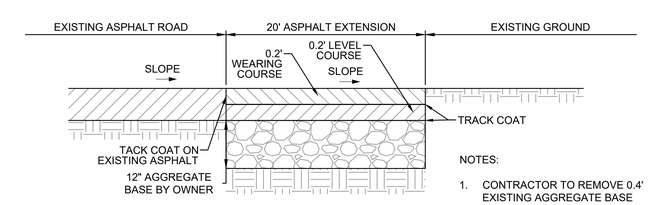
5 C10A WESTERN UNIT CORRIDOR AND INTERIM LINER TERMINATION
NOT TO SCALE



NOTES:

1. CONTRACTOR TO GRADE EXISTING BASE FOR DRAINAGE.

6 C10A HMA ROAD SECTION
NOT TO SCALE



NOTES:

1. CONTRACTOR TO REMOVE 0.4' EXISTING AGGREGATE BASE AND GRADE TO DRAIN. CONNECT NEW HMA TO EXISTING AND MATCH ELEVATIONS.

7 C10A HMA ROAD SECTION
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

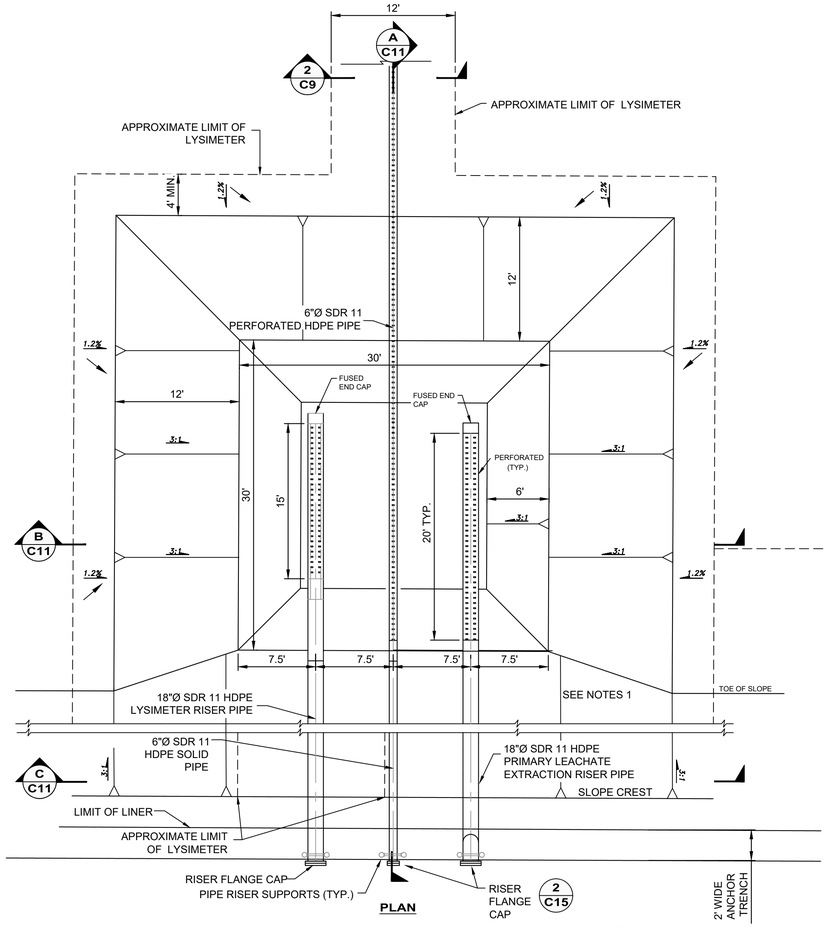
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

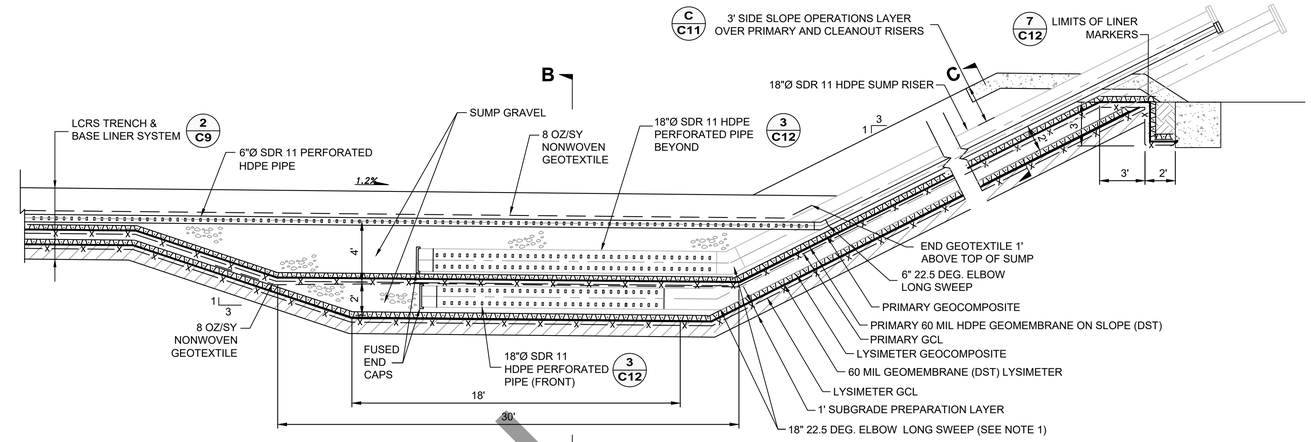
UNIT II, PHASE 1
SECTIONS AND DETAILS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C10A
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 14 OF 38



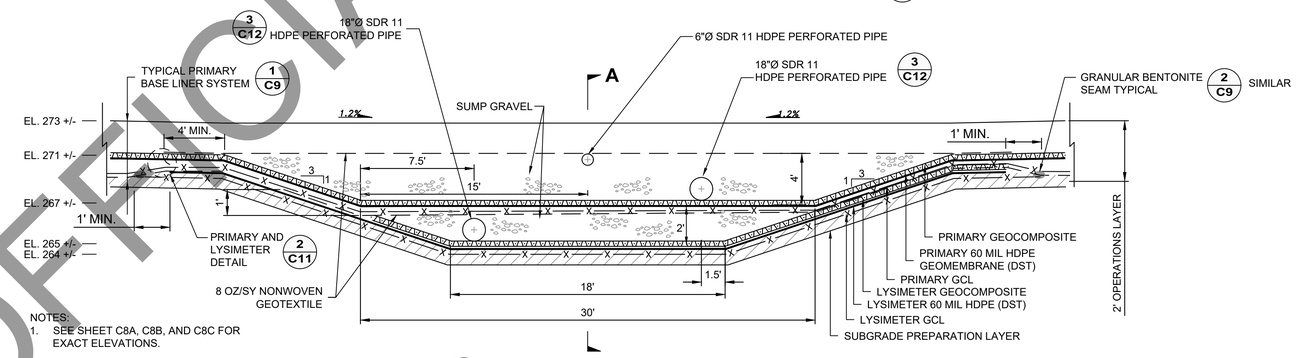
NOTES:
1. LYSIMETER WIDTH TO TRANSITION TO 15' AT 2' ABOVE BASE OPERATIONS LAYER.

1 C11 TYPCIAL LEACHATE SUMP (TOP OF PRIMARY LINER)
NOT TO SCALE



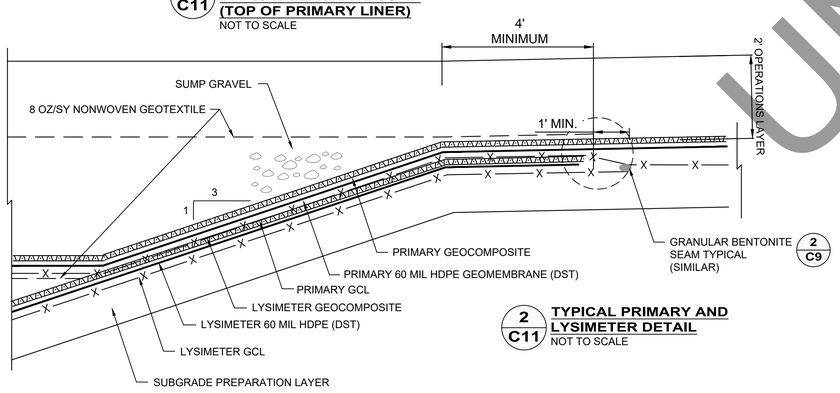
A C11 TYPICAL LEACHATE SUMP SECTION A
NOT TO SCALE

NOTES:
1. SUMP PUMP CARRIAGE MUST BE FABRICATED TO ROLL PAST ELBOW. CONTRACTOR TO COORDINATE FABRICATION.
2. SEE 1,2 C11

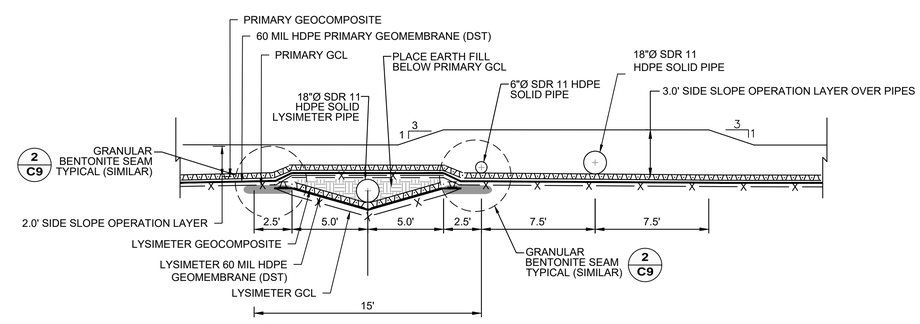


NOTES:
1. SEE SHEET C8A, C8B, AND C8C FOR EXACT ELEVATIONS.

B C11 TYPICAL LEACHATE SUMP SECTION B
NOT TO SCALE



2 C11 TYPICAL PRIMARY AND LYSIMETER DETAIL
NOT TO SCALE



C C11 TYPICAL LEACHATE SUMP SECTION C
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

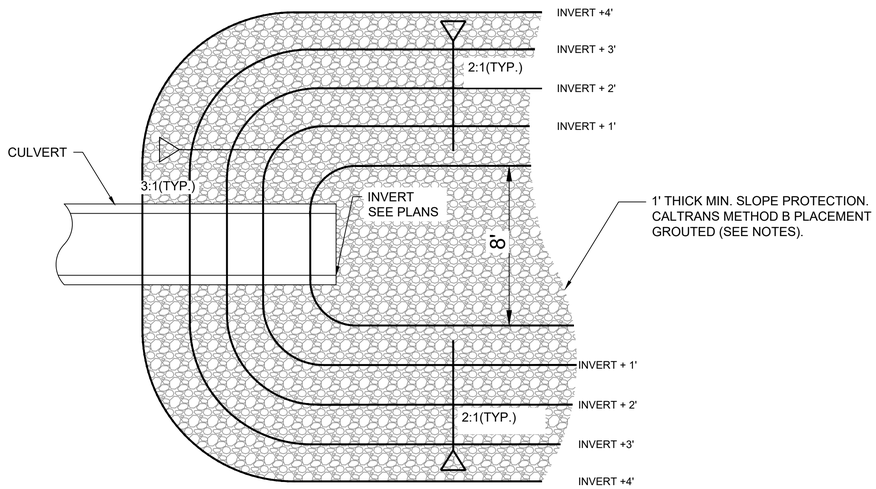
APTIM

APTIM Environmental & Infrastructure, LLC

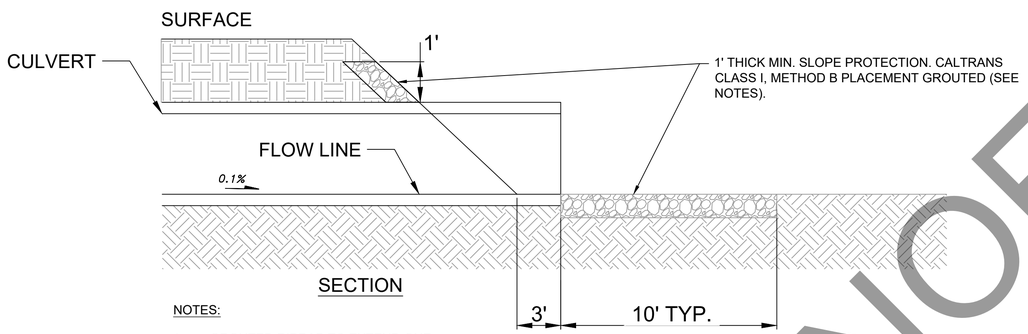
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
LEACHATE SUMP DETAILS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C11
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 15 OF 38



PLAN

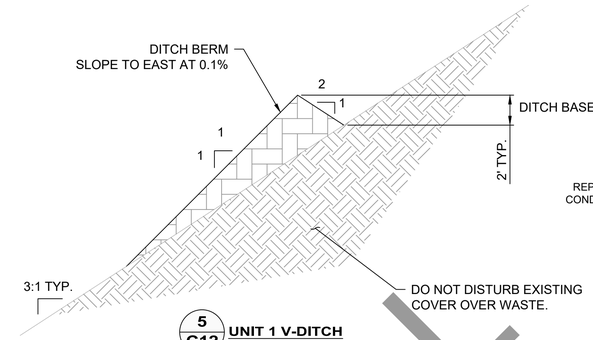


SECTION

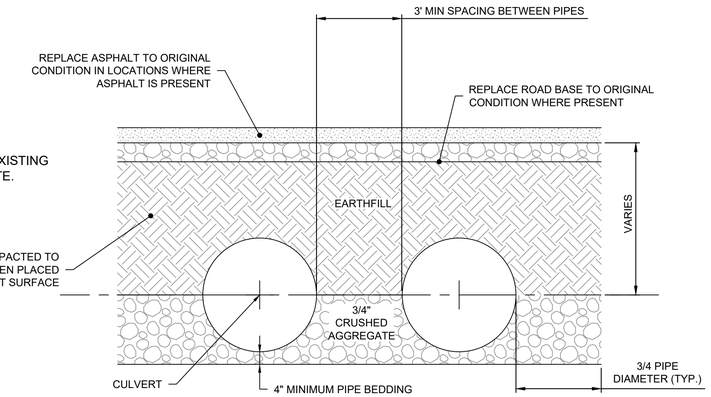
NOTES:

1. GROUTED RIPRAP TO EXTEND ONE FOOT ABOVE TOP OF CULVERT.

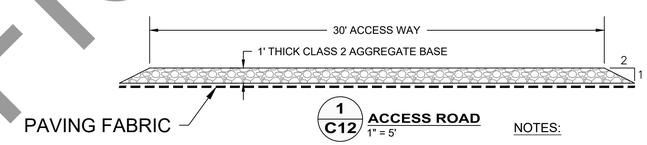
2 / C12 TYPICAL RCP CULVERT END SECTION
1"=5'



5 / C12 UNIT 1 V-DITCH
NOT TO SCALE



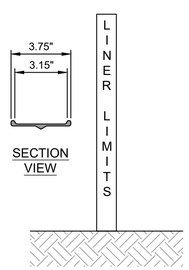
4 / C12 PIPE TRENCH
1"=2'



1 / C12 ACCESS ROAD
1" = 5'

NOTES:

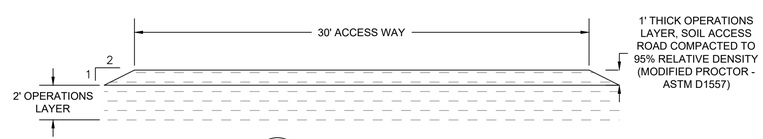
1. SCARIFY AND RE-COMPACT TOP 6" OF SUBGRADE TO 95% MAXIMUM DENSITY (ASTM D1557).
2. AGGREGATE BASE TO BE COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D1557.



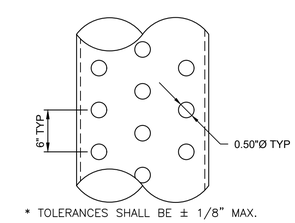
NOTES:

1. PROVIDE AND PLACE LIMIT OF LINER FIBERGLASS MARKERS ON 200-FOOT SPACING AND AT CORNERS ALONG ANCHOR TRENCH ON ALL FOUR SIDES. DO NOT PUNCTURE LINER.
2. CARSONITE CRM3 OR EQUIVALENT
3. COLOR – ORANGE
4. 72-INCH
5. "LINER LIMITS" DECAL ON ONE SIDE
6. NO ANCHORS
7. PROVIDE OWNER WITH 10 EXTRA MARKERS AND POST DRIVER TOOL FROM MANUFACTURER

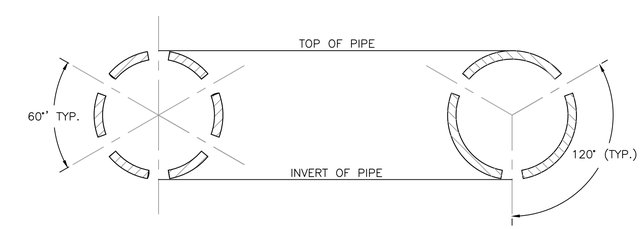
7 / C12 LIMIT OF LINER MARKERS
NTS



6 / C12 COMPACTED SOIL ACCESS ROAD
1" = 5'



* TOLERANCES SHALL BE ± 1/8" MAX.



18" Ø PIPE PERFORATION **6" Ø PIPE PERFORATION**

3 / C12 PIPE PERFORATION SCHEDULE
NOT TO SCALE

NOTES:

1. PROVIDE OWNER WITH 3,600 LF OF 6" SDR 11 HDPE PERFORATED PIPE. STORE ONSITE AS DIRECTED BY OWNER.

REV. NO.	DATE	DESCRIPTION

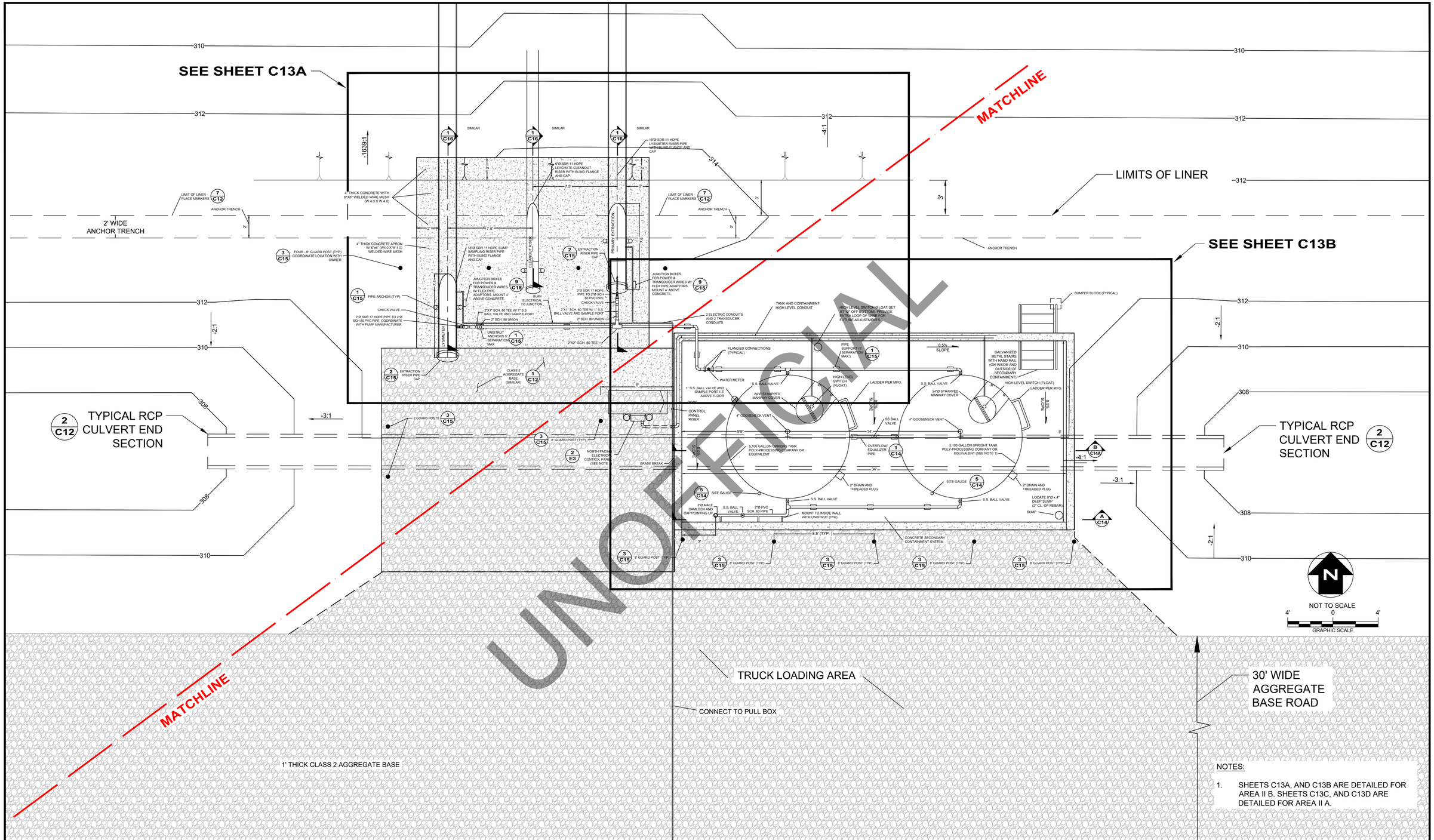
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
MISC. DETAILS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C12
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 16 OF 38



NOTES:

1. SHEETS C13A, AND C13B ARE DETAILED FOR AREA II B. SHEETS C13C, AND C13D ARE DETAILED FOR AREA II A.

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

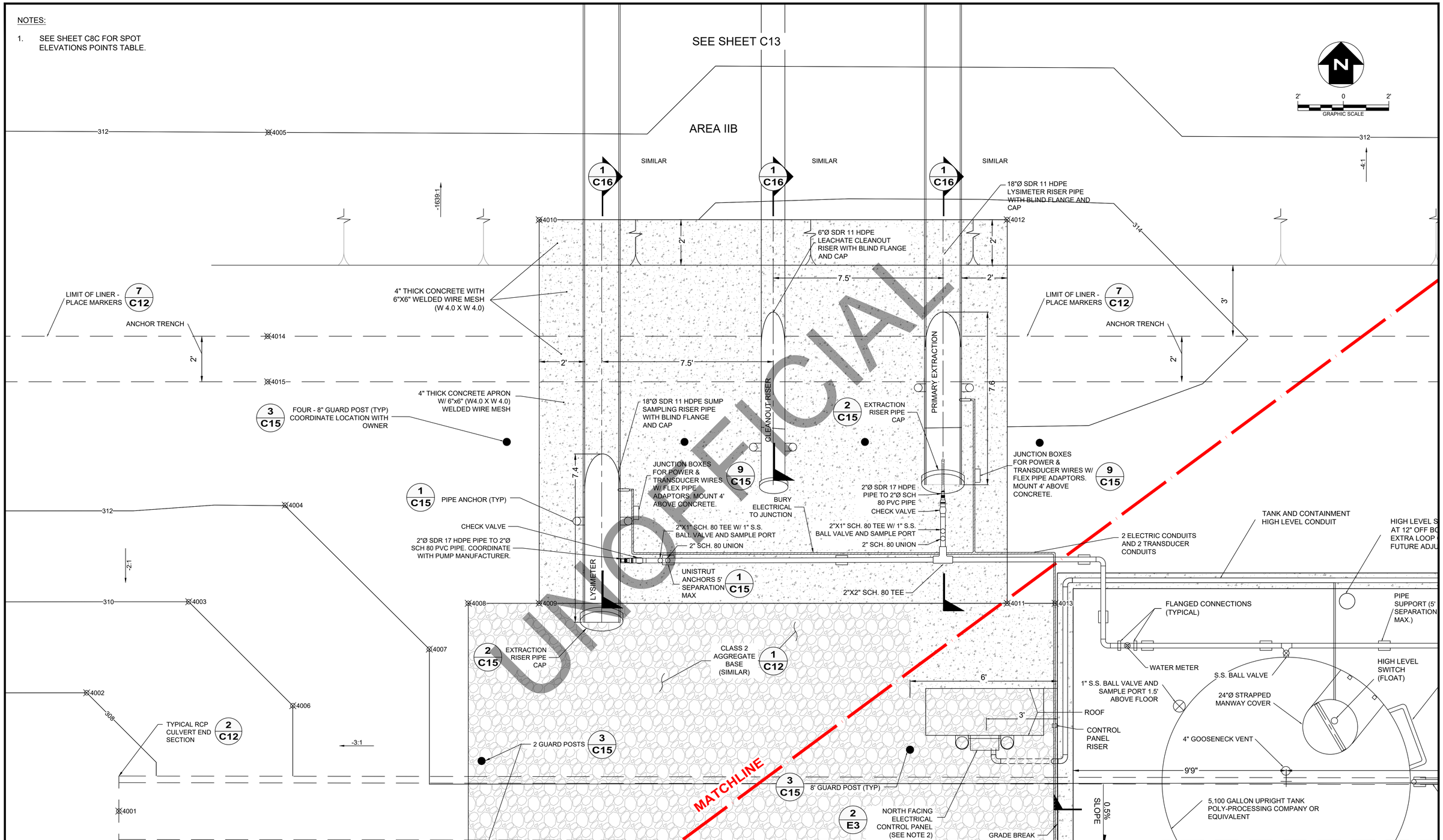
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
LEACHATE STORAGE FACILITY PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C13
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 17 OF 38

NOTES:

1. SEE SHEET C8C FOR SPOT ELEVATIONS POINTS TABLE.



REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM

APTIM Environmental & Infrastructure, LLC

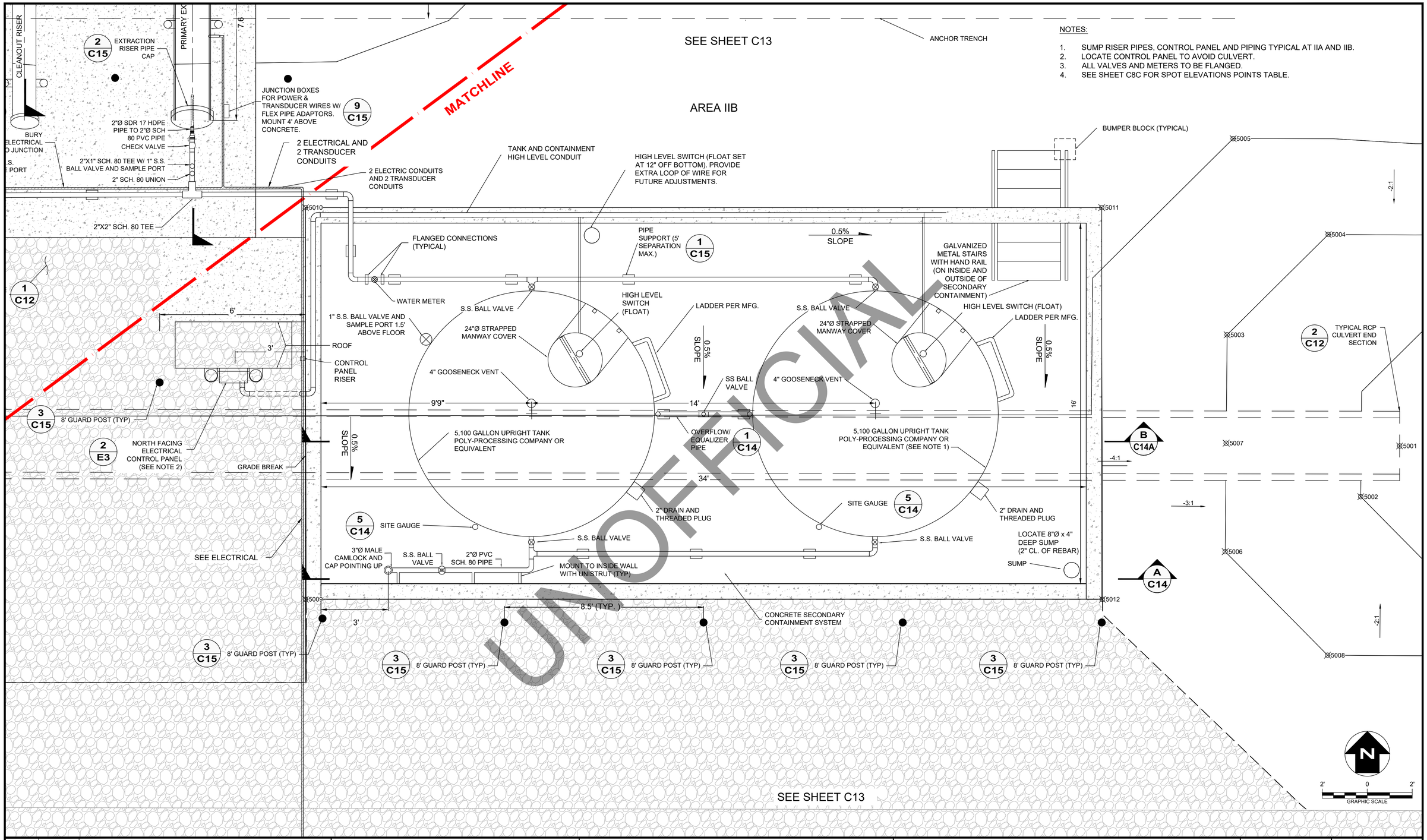
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1 (AREA IIB)
WEST LEACHATE EXTRACTION FACILITY PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C13A
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 18 OF 38

NOTES:

1. SUMP RISER PIPES, CONTROL PANEL AND PIPING TYPICAL AT IIA AND IIB.
2. LOCATE CONTROL PANEL TO AVOID CULVERT.
3. ALL VALVES AND METERS TO BE FLANGED.
4. SEE SHEET C8C FOR SPOT ELEVATIONS POINTS TABLE.



REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

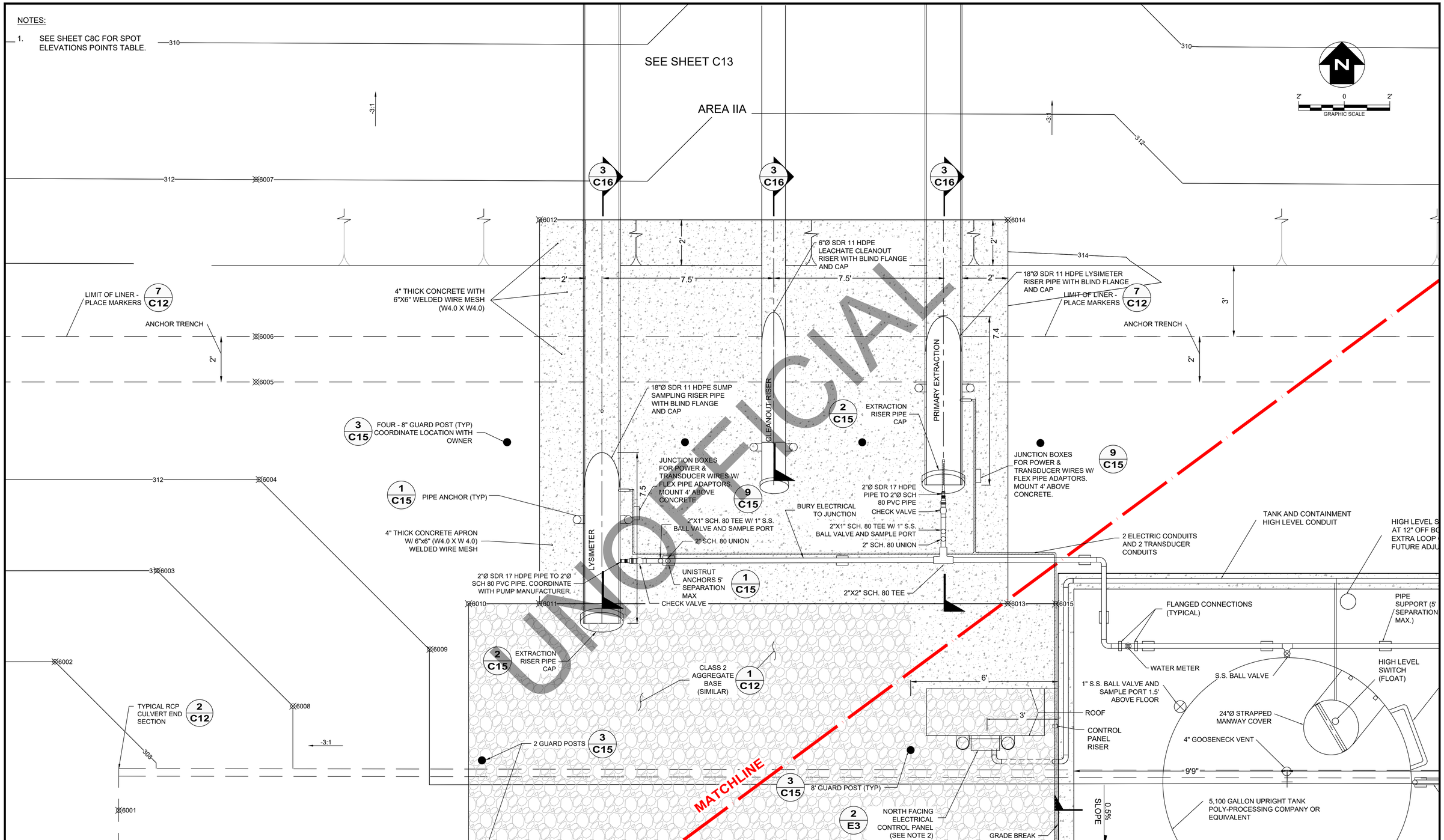
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1 (AREA IIB)
WEST LEACHATE STORAGE FACILITY PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	**C13B**
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 19 OF 38

NOTES:

1. SEE SHEET C8C FOR SPOT ELEVATIONS POINTS TABLE.



REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

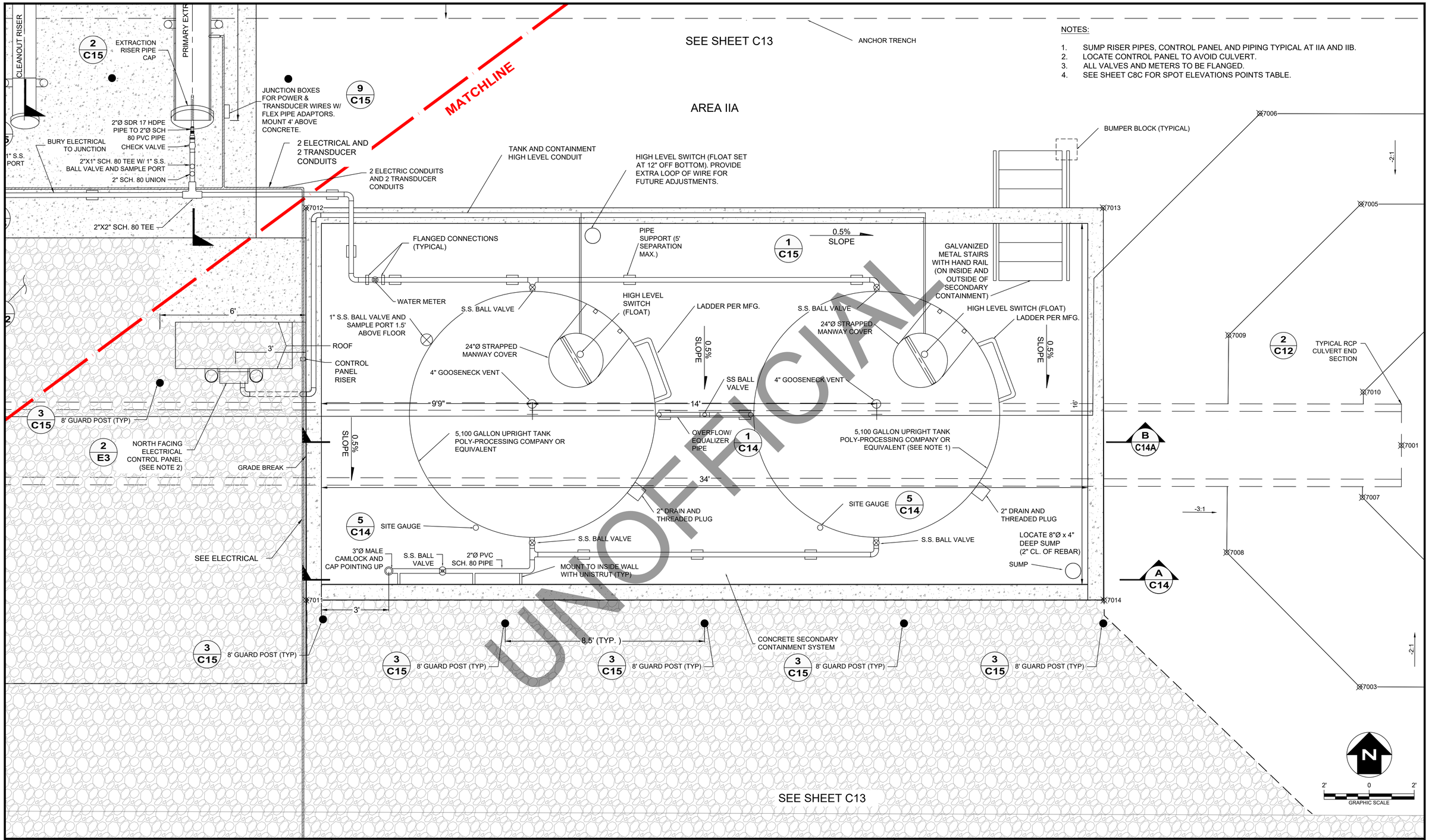
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1 (AREA IIA)
EAST LEACHATE EXTRACTION FACILITY PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C13C
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 20 OF 38

NOTES:

1. SUMP RISER PIPES, CONTROL PANEL AND PIPING TYPICAL AT IIA AND IIB.
2. LOCATE CONTROL PANEL TO AVOID CULVERT.
3. ALL VALVES AND METERS TO BE FLANGED.
4. SEE SHEET C8C FOR SPOT ELEVATIONS POINTS TABLE.



REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

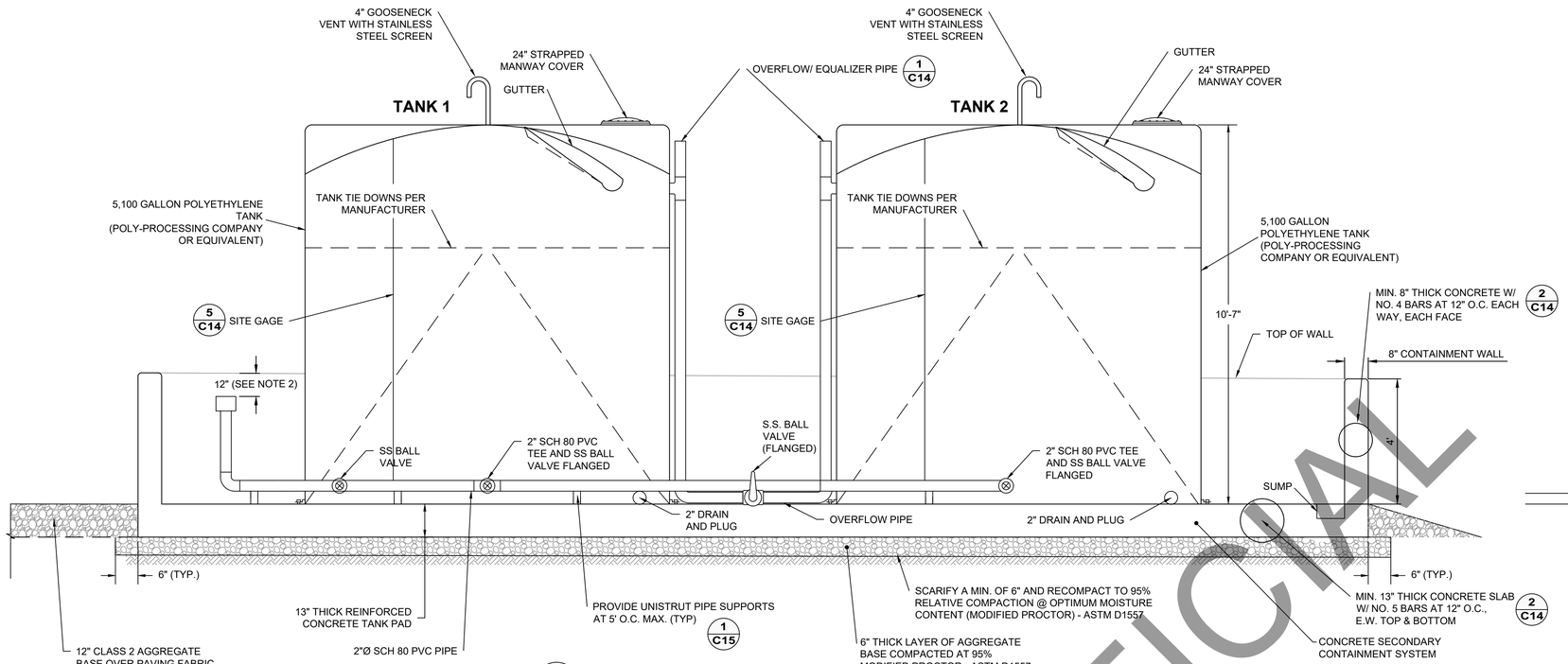
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

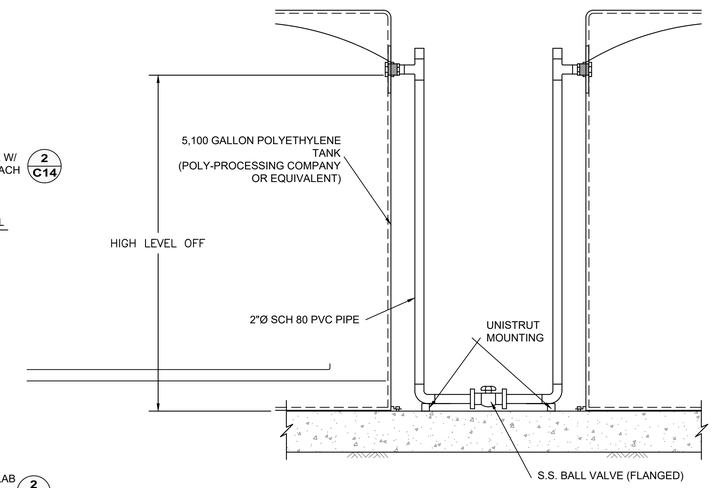
UNIT II, PHASE 1 (AREA IIA)
EAST LEACHATE STORAGE FACILITY PLAN

PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWING NO.
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR

C13D



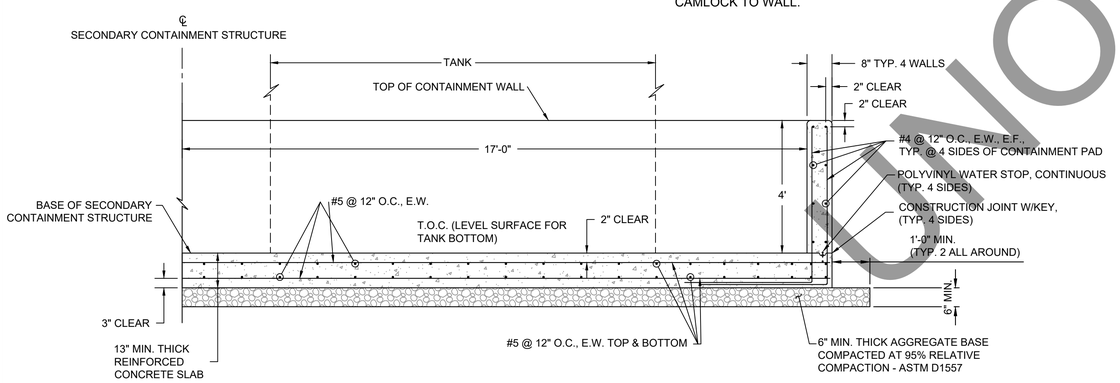
A C14 LEACHATE STORAGE TANKS
NOT TO SCALE



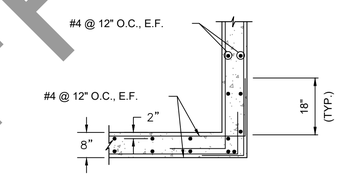
1 C14 OVERFLOW/EQUALIZER PIPE
NOT TO SCALE

NOTES:

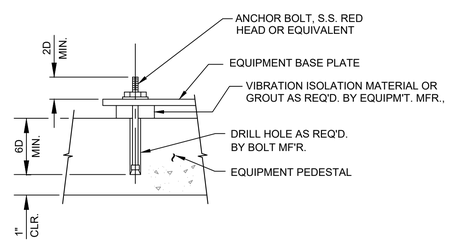
1. ALL PIPES AND APPURTENANCES NOT SHOWN IN SECTION. SEE PLAN VIEW FOR MORE DETAILS.
2. EXTEND 3" CAMLOCK AND CAP TO 12" BELOW TOP OF CONCRETE WALL. SECURE PIPE AND CAMLOCK TO WALL.



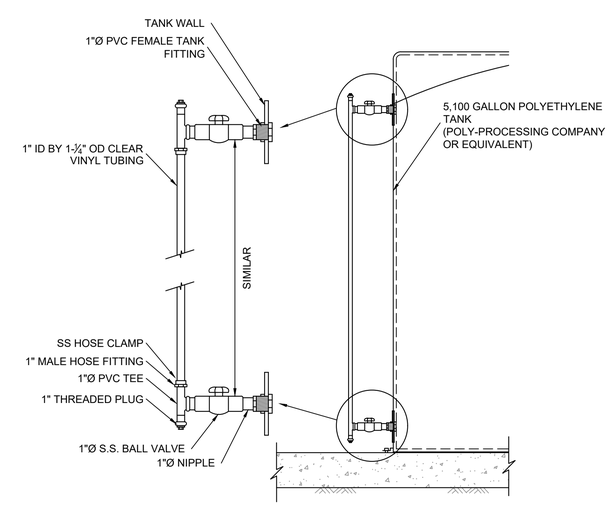
2 C14 SECTION
NOT TO SCALE



3 C14 WALL CORNER, TYP., 4 CORNERS
NOT TO SCALE



4 C14 TYPE "A" ANCHOR BOLT
NOT TO SCALE



5 C14 SITE GAUGE
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

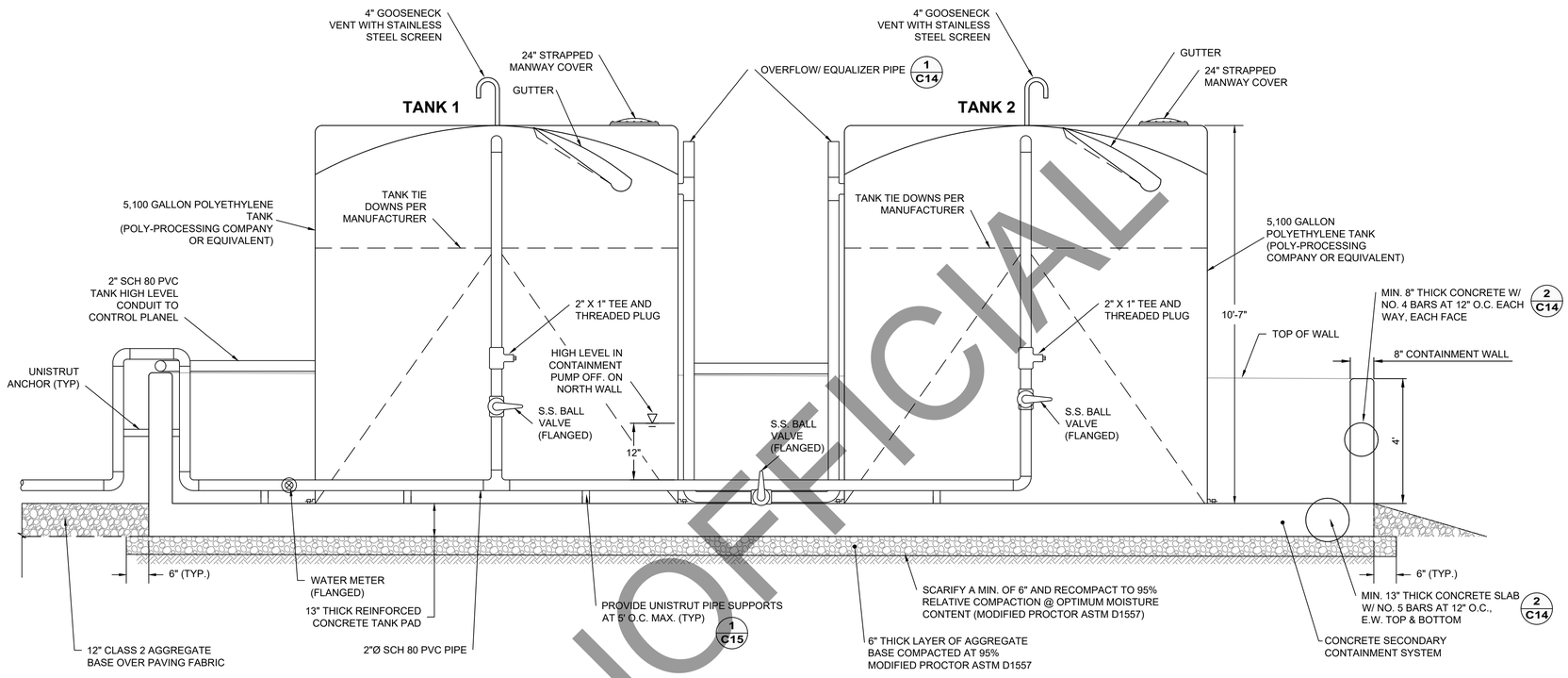
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
LEACHATE FACILITY DETAILS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C14
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 22 OF 38



B C14A **LEACHATE STORAGE TANKS**
NOT TO SCALE

NOTES:

1. ALL PIPES AND APPURTENANCES NOT SHOWN IN SECTION. SEE PLAN VIEW FOR MORE DETAILS.

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

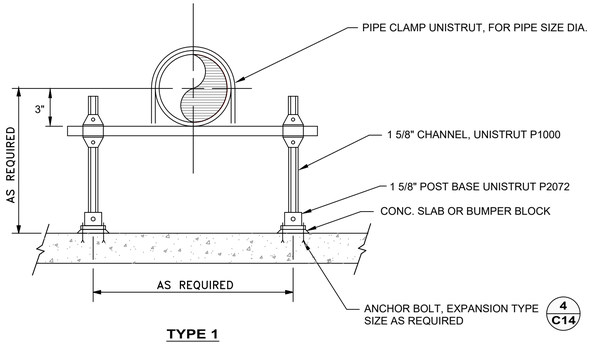
APTIM

APTIM Environmental & Infrastructure, LLC

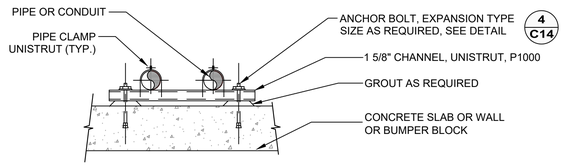
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
LEACHATE FACILITY DETAILS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C14A
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 23 OF 38

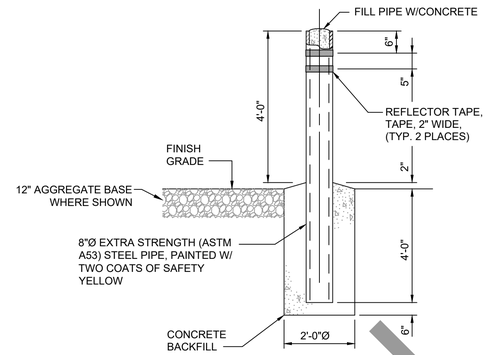


TYPE 1

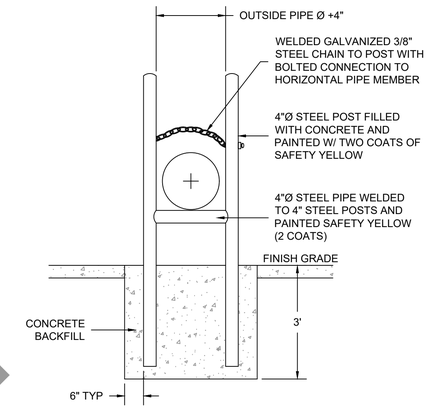


TYPE 2

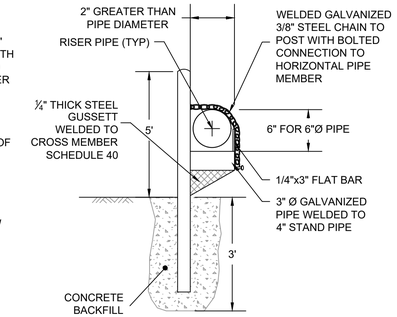
NOTES:
1. PROVIDE ALL FLANGES WITH STAINLESS STEEL BOLTS, WASHERS (2 PER BOLT), NUTS, AND FLANGE GASKET.
2. ALL UNISTRUTS, HARDWARE, PIPE CLAMPS, SUPPORTS AND OTHER HARDWARE TO BE HOT DIP GALVANIZED.



3 / C15 8" Ø GUARD POST
NOT TO SCALE

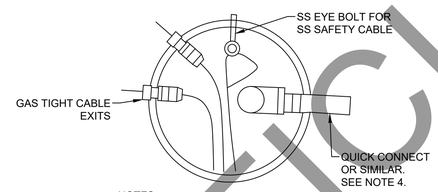


SECTION A-A'



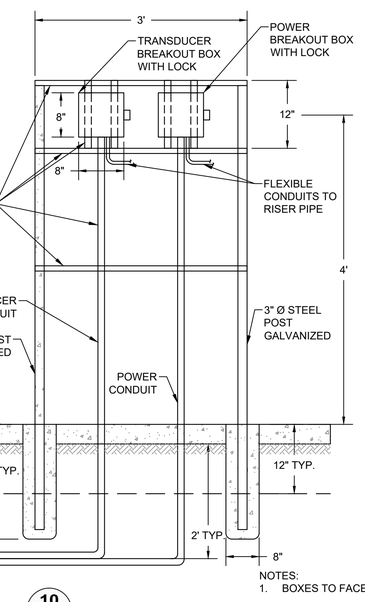
SECTION B-B'

5 / C15 PIPE SUPPORTS
NOT TO SCALE



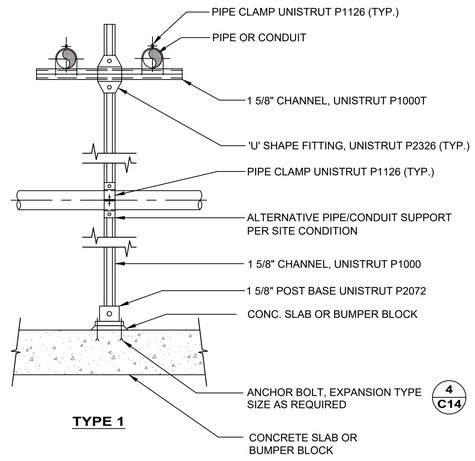
NOTES:
1. COORDINATE LOCATION OF PIPE PENETRATION WITH OWNER.
2. ALL BOLTS, WASHERS, NUTS AND EYEBOLT TO BE STAINLESS STEEL.
3. FLANGE CAP NOT SHOWN FOR CLARITY.
4. DISCHARGE PIPE TO HAVE A FLEXIBLE CONNECTION FROM QUICK CONNECT FITTING TO 2" PVC PIPE.

2 / C15 EXTRACTION RISER PIPE CAP
NOT TO SCALE



NOTES:
1. BOXES TO FACE EAST.

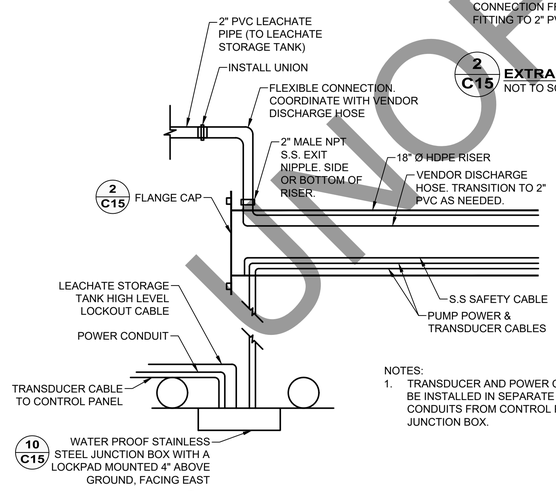
10 / C15 JUNCTION BOX DETAIL
NOT TO SCALE



TYPE 1

1 / C15 PIPE AND CONDUIT SUPPORT (TYP.)
NOT TO SCALE

NOTES:
1. ALL UNISTRUTS, HARDWARE, PIPE CLAMPS, SUPPORTS AND OTHER HARDWARE TO BE HOT DIP GALVANIZED.



NOTES:
1. TRANSDUCER AND POWER CABLES TO BE INSTALLED IN SEPARATE BURIED CONDUITS FROM CONTROL PANEL TO JUNCTION BOX.

9 / C15 RISER PLAN VIEW
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

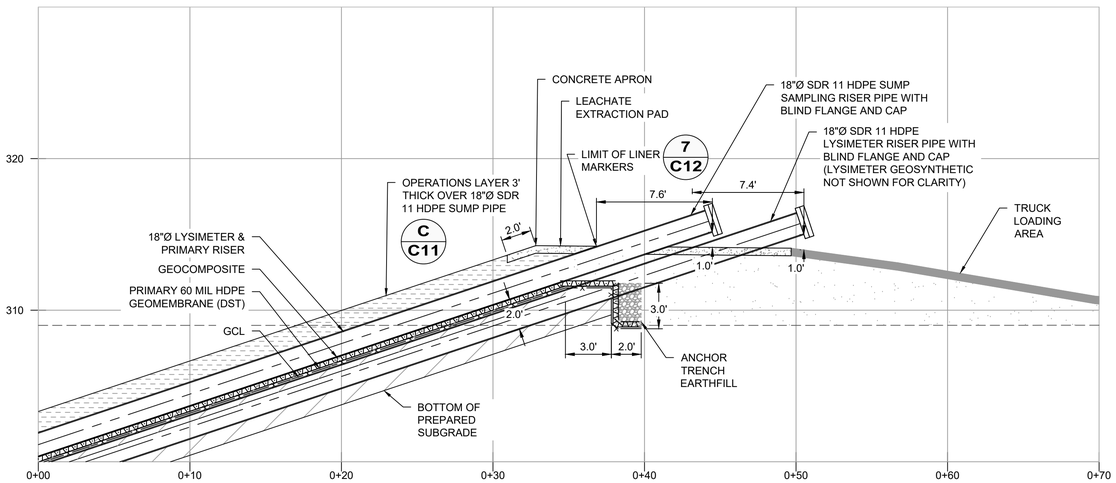
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
LEACHATE FACILITY DETAILS AND SECTIONS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C15
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 24 OF 38

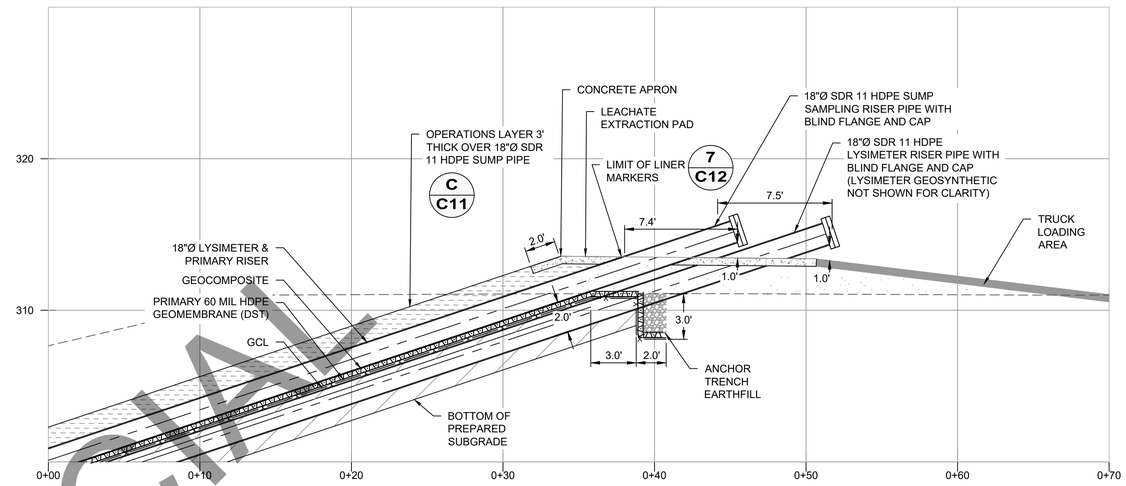
WEST



NOTES:
1. ONLY ONE LAYER OF GEOSYNTHETICS SHOWN FOR CLARITY.
2. 6" CLEANOUT RISER NOT SHOWN FOR CLARITY.

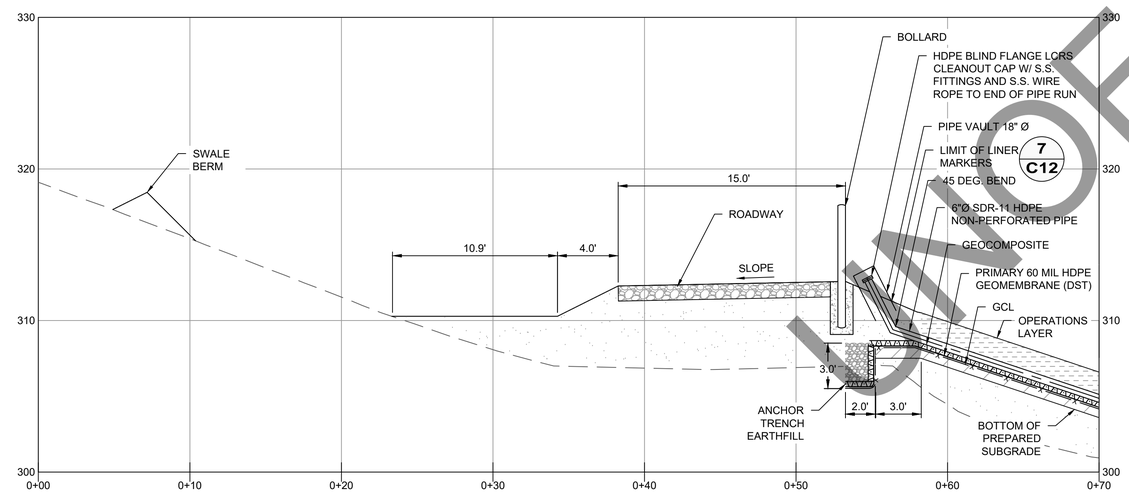
1 / C16 AREA IIB LEACHATE RISER PIPES
NOT TO SCALE

EAST

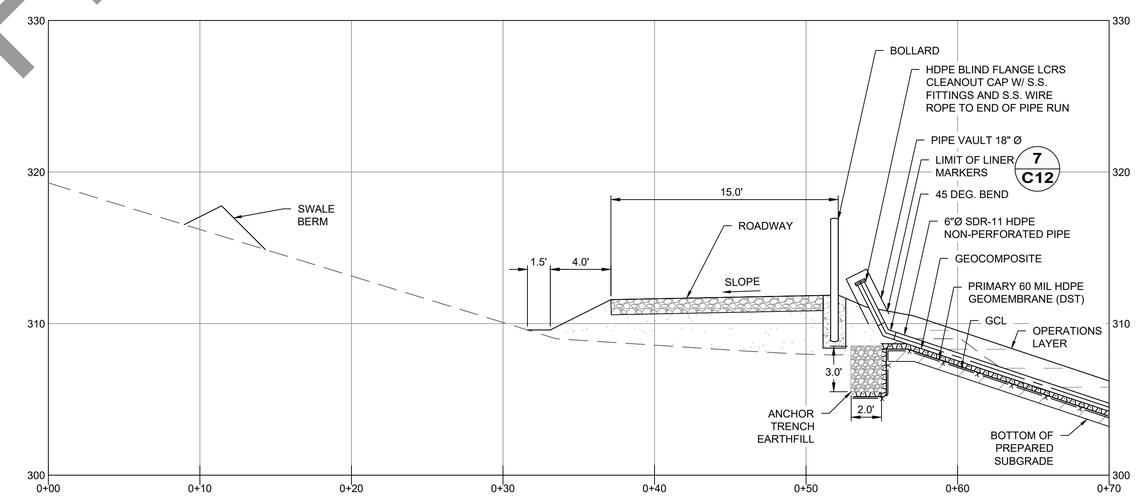


NOTES:
1. ONLY ONE LAYER OF GEOSYNTHETICS SHOWN FOR CLARITY.
2. 6" CLEANOUT RISER NOT SHOWN FOR CLARITY.

3 / C16 AREA iiA LEACHATE RISER PIPES
NOT TO SCALE



2 / C16 AREA IIB LEACHATE CLEANOUT
NOT TO SCALE



4 / C16 AREA IIA LEACHATE CLEANOUT
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

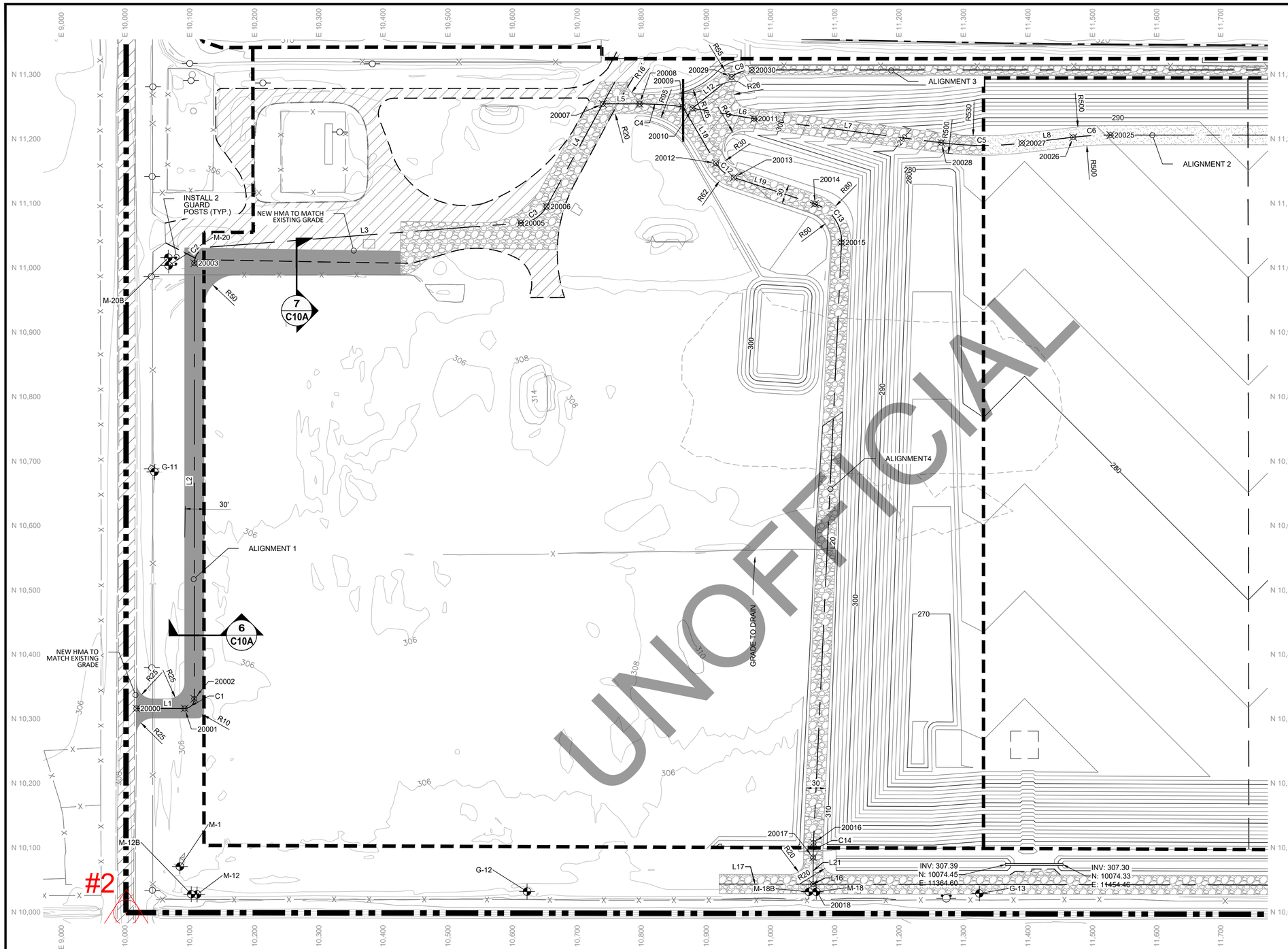
ISSUED FOR BIDDING AND CONSTRUCTION

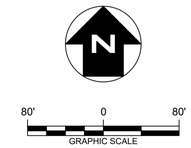
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
LEACHATE CLEANOUTS AND RISER PIPES

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C16
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 25 OF 38





LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 EXISTING CONTOUR
- 300 PROPOSED CONTOUR
- EXISTING ROAD
- X X EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ENTRANCE ROAD
- PROPOSED GRAVEL / ACCESS ROAD (CLASS 2 AGG. BASE)
- PROPOSED COMPACTED SOIL. ACCESS ROAD
- M-4 GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 / C10 DRAWING REFERENCE
- SPOT ELEVATION (SEE C17C)

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. PROVIDE GUARD POST PER DETAIL 3, SHEET 15 AT EACH M18, G13, G14, G15, M7, M19, M20. COORDINATE WITH OWNER.
6. SOIL ACCESS ROAD TO BE ADDITIONAL 12" OPERATIONS LAYER SOIL COMPACTED TO 95% DENSITY (ASTM D1557)

REV. NO.	DATE	DESCRIPTION

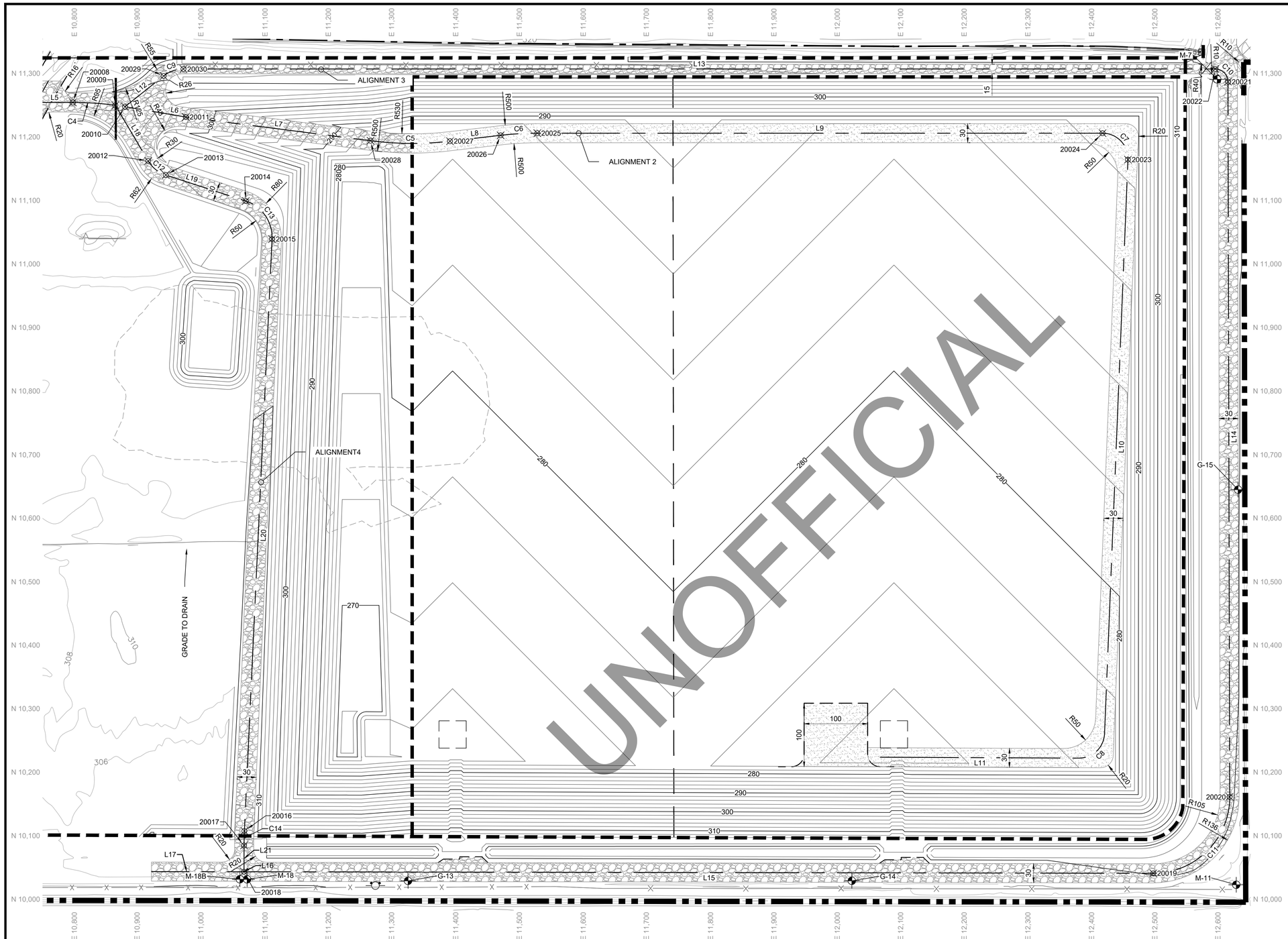
ISSUED FOR BIDDING AND CONSTRUCTION

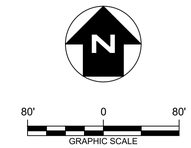
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
ROADWAY ALIGNMENT

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C17A
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 26 OF 38





LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
- 300 — PROPOSED CONTOUR
- EXISTING ROAD
- X — X — EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ENTRANCE ROAD
- PROPOSED GRAVEL / ACCESS ROAD (CLASS 2 AGG. BASE)
- PROPOSED COMPACTED SOIL. ACCESS ROAD
- M-4 — GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 — LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 / C10 — DRAWING REFERENCE
- SPOT ELEVATION (SEE C17C)

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. PROVIDE GUARD POST PER DETAIL 3, SHEET 15 AT EACH M18, G13, G14, G15, M7, M19, M20. COORDINATE WITH OWNER.
6. SOIL ACCESS ROAD TO BE ADDITIONAL 12" OPERATIONS COMPACTED TO 95% DENSITY (ASTM D1557)

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
ROADWAY ALIGNMENT

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	C17B
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 27 OF 38

ALIGNMENT 1			
Number	Length	Radius	Line/Chord Direction
L1	74.90		N90° 00' 00.00"E
C1	23.56	15.00	N45° 00' 00.00"E
L2	675.99		N00° 00' 00.00"E
C2	37.34	25.00	N42° 47' 38.86"E
L3	485.43		N85° 35' 17.72"E
C3	49.61	50.00	N57° 09' 46.34"E
L4	220.00		N28° 44' 14.95"E

ALIGNMENT 2			
Number	Length	Radius	Line/Chord Direction
L5	57.03		N90° 00' 00.00"E
C4	83.86	500.00	S85° 11' 42.13"E
L6	95.71		S80° 23' 24.26"E
L7	293.06		S82° 40' 58.94"E
C5	125.45	515.00	S89° 39' 41.91"E
L8	80.21		N83° 21' 35.12"E
C6	57.95	500.00	N86° 40' 47.56"E
L9	889.61		N90° 00' 00.00"E
C7	64.46	40.00	S43° 50' 00.41"E
L10	904.42		S02° 19' 59.19"W
C8	61.38	40.00	S46° 17' 42.53"W
L11	312.79		N89° 44' 34.12"W

ALIGNMENT 3			
Number	Length	Radius	Line/Chord Direction
L12	77.76		N51° 26' 09.05"E
C9	33.65	50.00	N70° 43' 02.33"E
L13	1624.10		N89° 59' 55.61"E
C10	31.37	20.00	S45° 04' 10.39"E
L14	1117.87		S00° 08' 16.38"E
C11	198.50	120.77	S43° 32' 07.19"W
L15	1394.77		N89° 54' 02.59"W
L16	69.71		N89° 55' 45.12"W
L17	110.75		N89° 53' 17.23"W

ALIGNMENT 4			
Number	Length	Radius	Line/Chord Direction
L18	101.78		S30° 32' 55.63"E
C12	36.15	50.00	S51° 15' 48.10"E
L19	132.43		S71° 58' 40.58"E
C13	78.18	60.00	S34° 39' 06.53"E
L20	932.80		S02° 40' 27.52"W
C14	22.72	500.00	S01° 22' 21.20"W
L21	41.37		S00° 04' 14.88"W

POINTS (SEE C17A AND C17B)				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
20000	10316.66	10015.54	-	MATCH EXISTING PAVEMENT
20001	10316.66	10090.44	307.06	TOP HMA ROAD
20002	10331.66	10105.44	307.04	TOP HMA ROAD
20003	11007.65	10105.44	305.83	TOP HMA ROAD
20005	11069.92	10612.51	307.00	TOP CLASS 2 AGGREGATE ROAD
20006	11095.73	10652.51	307.00	TOP CLASS 2 AGGREGATE ROAD
20007	11254.91	10739.79	306.97	TOP CLASS 2 AGGREGATE ROAD
20008	11254.91	10796.82	307.79	TOP CLASS 2 AGGREGATE ROAD
20009	11250.41	10863.72	308.57	TOP CLASS 2 AGGREGATE ROAD
20010	11248.12	10878.94	308.30	TOP CLASS 2 AGGREGATE ROAD
20011	11231.92	10974.65	302.26	TOP CLASS 2 AGGREGATE ROAD
20012	11162.76	10915.45	307.08	TOP CLASS 2 AGGREGATE ROAD
20013	11140.63	10943.04	307.90	TOP CLASS 2 AGGREGATE ROAD
20014	11099.66	11068.98	308.37	TOP CLASS 2 AGGREGATE ROAD
20015	11039.80	11110.35	308.56	TOP CLASS 2 AGGREGATE ROAD
20016	10108.02	11066.83	312.09	TOP CLASS 2 AGGREGATE ROAD
20017	10085.31	11066.28	311.70	TOP CLASS 2 AGGREGATE ROAD
20018	10043.93	11066.23	311.19	TOP CLASS 2 AGGREGATE ROAD
20019	10041.47	12497.49	309.94	TOP CLASS 2 AGGREGATE ROAD
20020	10161.76	12617.56	309.85	TOP CLASS 2 AGGREGATE ROAD
20021	11287.58	12615.01	308.93	TOP CLASS 2 AGGREGATE ROAD
20022	11307.54	12595.01	310.58	TOP CLASS 2 AGGREGATE ROAD
20023	11164.85	12457.55	288.41	TOP SOIL ACCESS ROAD
20024	11206.48	12417.58	288.43	TOP SOIL ACCESS ROAD
20025	11206.48	11527.96	286.09	TOP SOIL ACCESS ROAD
20026	11203.13	11470.15	285.36	TOP SOIL ACCESS ROAD
20027	11193.85	11390.47	284.39	TOP SOIL ACCESS ROAD
20028	11194.59	11265.33	286.94	TOP CLASS 2 AGGREGATE ROAD
20029	11296.60	10939.74	310.90	TOP CLASS 2 AGGREGATE ROAD
20030	11307.50	10970.91	312.85	TOP CLASS 2 AGGREGATE ROAD

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

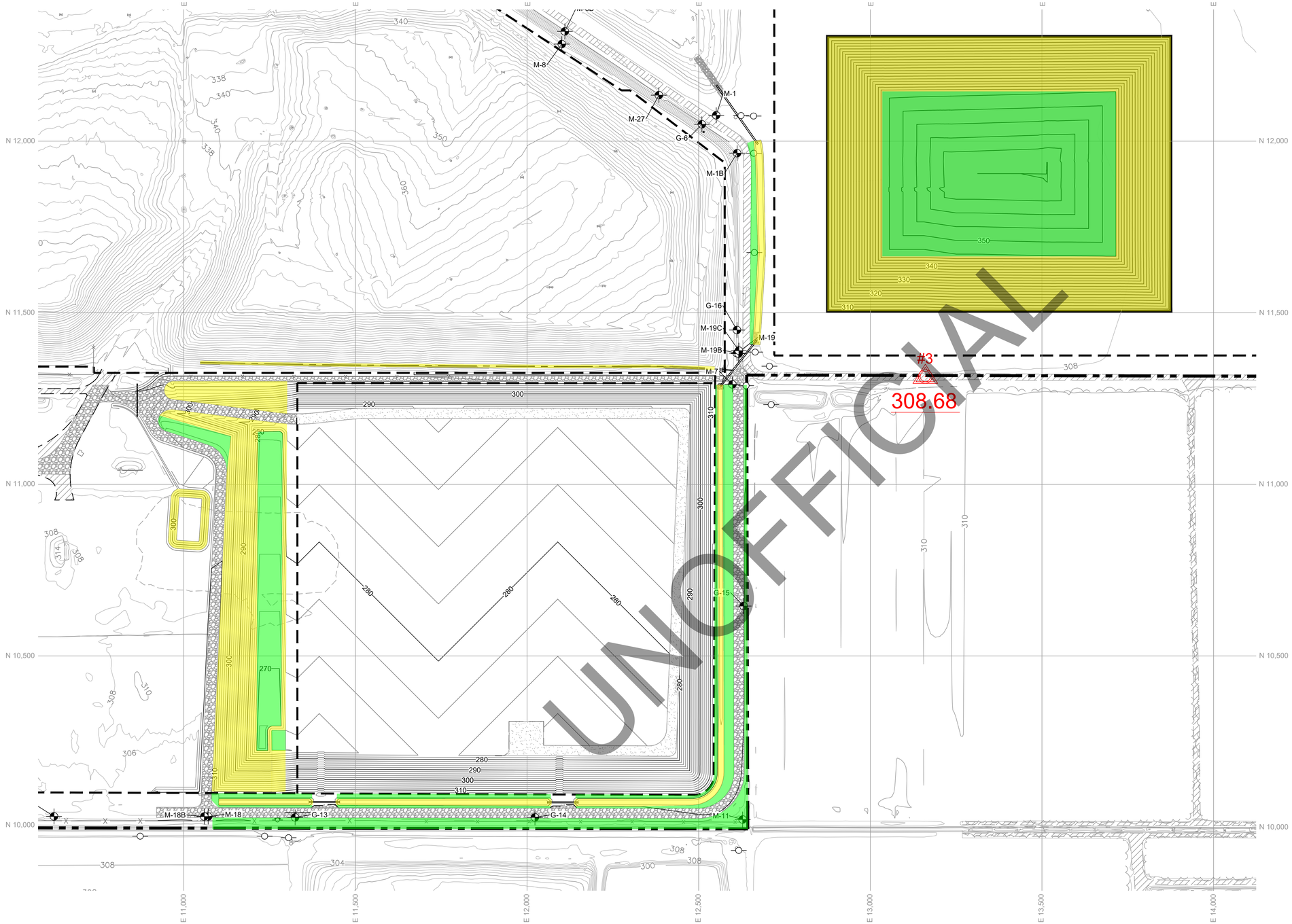
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

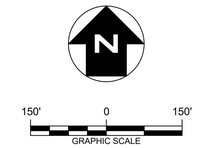
UNIT II, PHASE 1
ROADWAY ALIGNMENT POINTS

PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWING NO.
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR

C17C

SHEET 28 OF 38





LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION ANCHOR TRENCH
- 300 EXISTING CONTOUR
- 300 PROPOSED CONTOUR
- EXISTING ROAD
- X X EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ENTRANCE ROAD
- PROPOSED GRAVEL / ACCESS ROAD (CLASS 2 AGG. BASE)
- PROPOSED COMPACTED SOIL. ACCESS ROAD
- M-4 GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 / C10 DRAWING REFERENCE
- AREA TO BE SEEDED
- AREA TO BE SEEDED AND EROSION CONTROL MAT

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. COORDINATE ROAD AND GUARD POST LOCATION WITH OWNER.
6. UNSUITABLE SOIL AND STRIPPED VEGETATION MATERIALS TO BE STOCKPILED SEPARATELY FROM USABLE SOIL MATERIAL STOCKPILE.
7. RCP TO BE MINIMUM CLASS IV AND SUPPORT HL-93 LOADS WITH LESS THAN 2 FEET OF COVER.
8. CONTRACTOR TO PROTECT ALL MONITORING WELLS, GAS WELLS, AND OTHER INFRASTRUCTURE.
9. ASPHALT TO BE PLACED OVER EXISTING BASE ROAD. PROVIDE TYPE A HMA IN ACCORDANCE WITH SECTION 39 OF THE STANDARD SPECIFICATIONS, AS REVISED BY COUNTY. SEE DRAWINGS C10A AND C17A.
10. ALL DISTURBED AREAS, EXCEPT FOR DISPOSAL CELL AND POND BOTTOM, ARE TO BE SEEDED AND STABILIZED, INCLUDING ANY AREA DISTURBED AND NOT SHOWN. SLOPES IN EXCESS OF 10:1 TO RECEIVE EROSION CONTROL MAT AND BE SEEDED, INCLUDING ANY AREA DISTURBED AND NOT SHOWN.

REV. NO.	DATE	DESCRIPTION

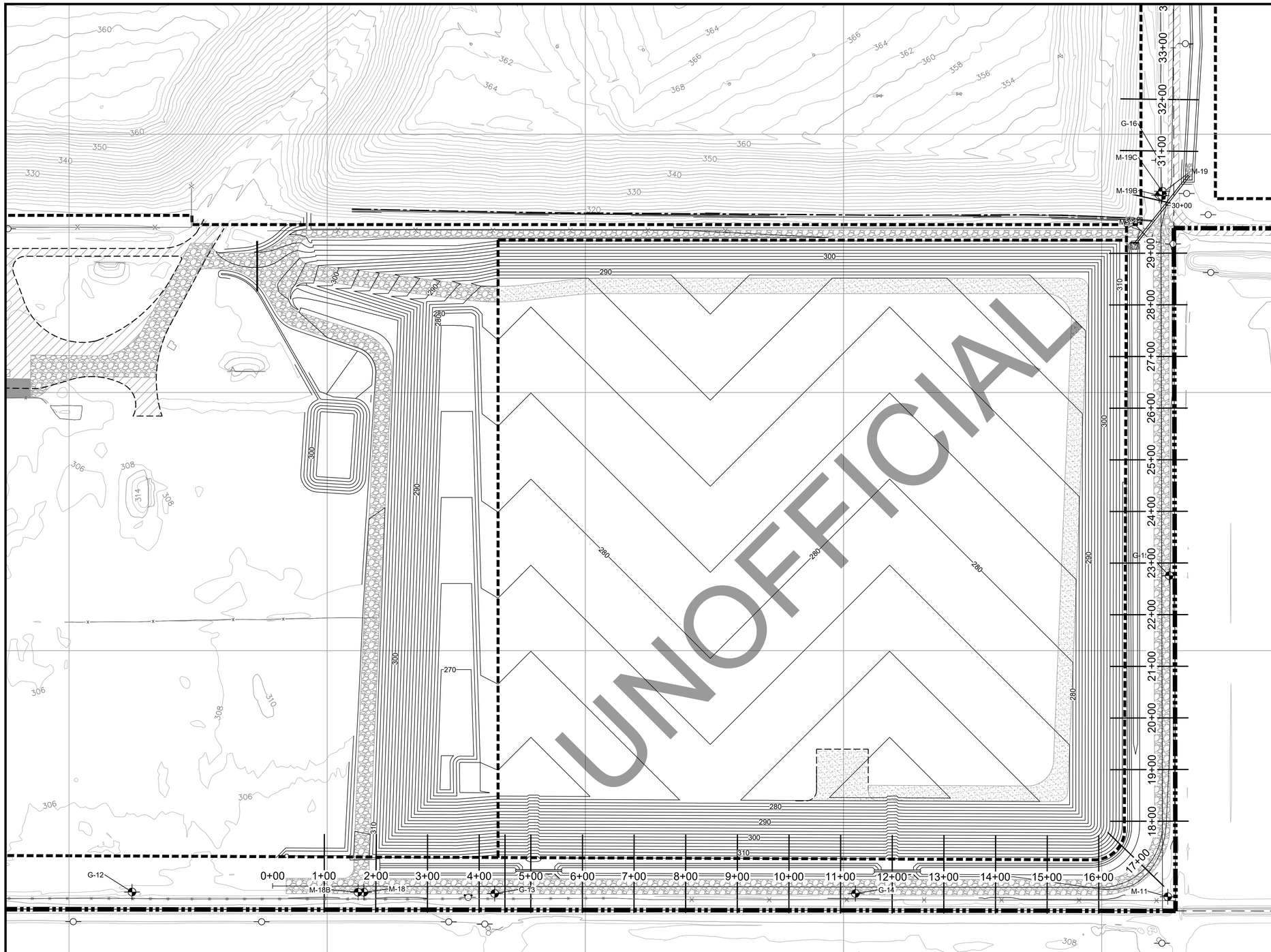
ISSUED FOR BIDDING AND CONSTRUCTION

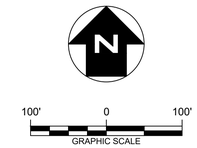
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

LIMITS OF SEEDING AND EROSION CONTROL MAT

PROJ. NO.: 631021443	DATE: APRIL 2021		
DESIGNED BY: PFB	DRAWING NO.		
DRAWN BY: BWM/NV/SJL	C18		
CHECKED BY: MWO			
APPROVED BY: CMR	SHEET 29 OF 38		





LEGEND

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LOCATION OF ANCHOR TRENCH
- 300 — EXISTING CONTOUR
- 300 — PROPOSED CONTOUR
- EXISTING ROAD
- EXISTING FENCE
- EXISTING POWER POLE
- PROPOSED HMA ROAD
- PROPOSED GRAVEL / PROPOSED ROAD (CLASS 2 AGG.) 12" THICK
- PROPOSED COMPACTED SOIL. 12" THICK
- M-4 — GROUNDWATER MONITORING WELL LOCATION
- CONTROL POINT
- G-6 — LANDFILL GAS MONITORING WELL LOCATION
- REINFORCED CONCRETE PIPE (NO HEADWALLS)
- 1 / C10 — DRAWING REFERENCE

NOTES

1. EXISTING CONTOURS WERE COMPILED BASED ON AERIAL PHOTOGRAPHY DEVELOPED BY CARTWRIGHT AERIAL SURVEYS, INC. OBTAINED ON APRIL 09, 2014 AND APRIL 19, 2001.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. COORDINATE ROAD LOCATION WITH OWNER. POWER POLES AND MONITOR WELLS TO BE RELOCATED BY OWNER, IF NECESSARY.
6. UNSUITABLE SOIL AND STRIPPED VEGETATION MATERIALS TO BE STOCKPILED SEPARATELY FROM USABLE SOIL MATERIAL STOCKPILE.

REV. NO.	DATE	DESCRIPTION

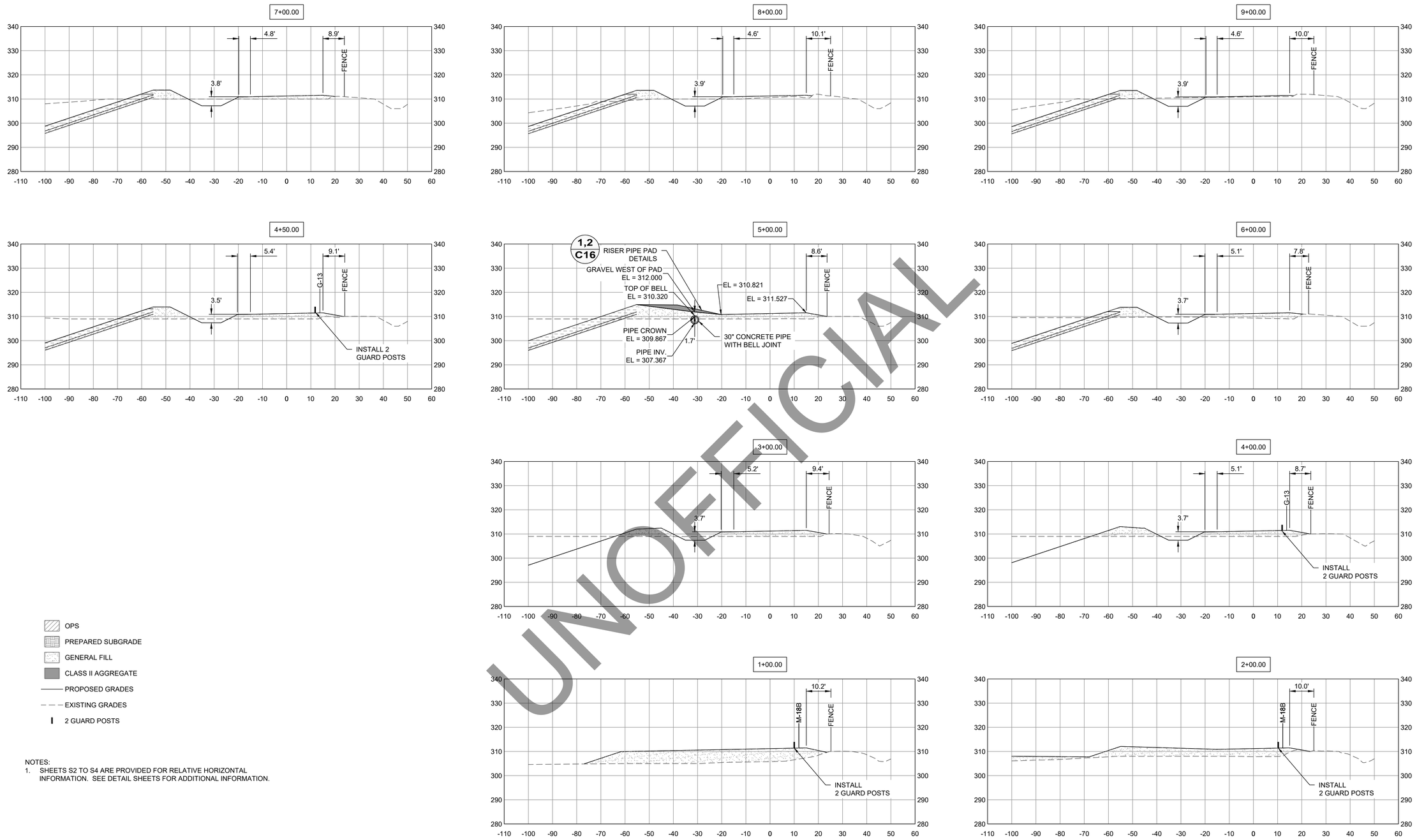
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
CROSS-SECTIONS ALIGNMENT PLAN

PROJ. NO.: 631021443	DATE: APRIL 2021	DRAWING NO.	
DESIGNED BY: PFB		**S1**	
DRAWN BY: BWM/NV/SJL			
CHECKED BY: MWO			
APPROVED BY: CMR		SHEET 30 OF 38	



OPS
PREPARED SUBGRADE
GENERAL FILL
CLASS II AGGREGATE
PROPOSED GRADES
EXISTING GRADES
2 GUARD POSTS

NOTES:
1. SHEETS S2 TO S4 ARE PROVIDED FOR RELATIVE HORIZONTAL INFORMATION. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

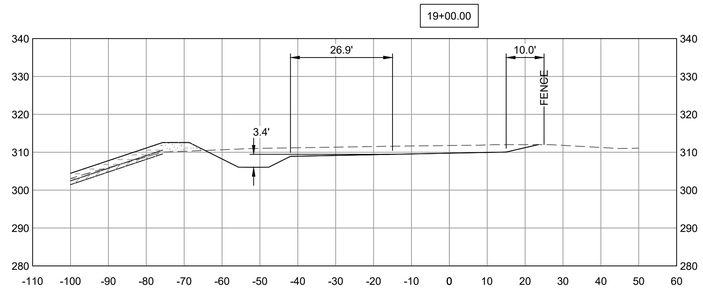
APTIM

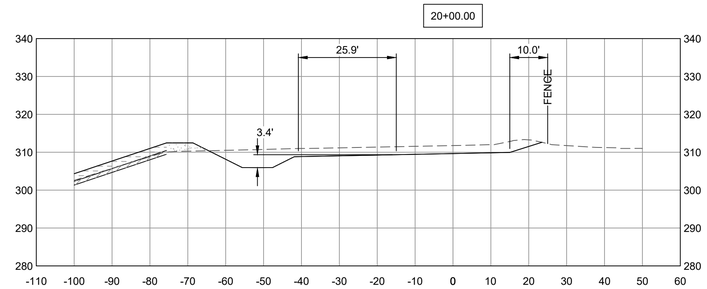
APTIM Environmental & Infrastructure, LLC

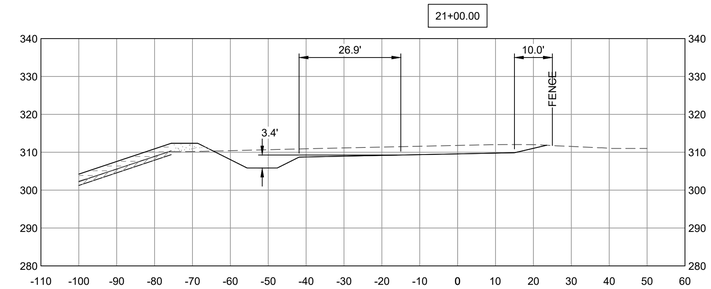
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

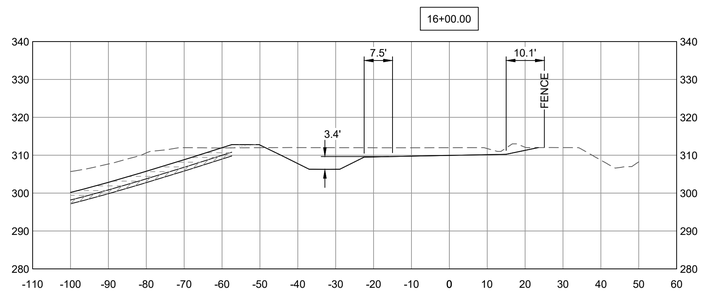
UNIT II, PHASE 1
CROSS-SECTIONS

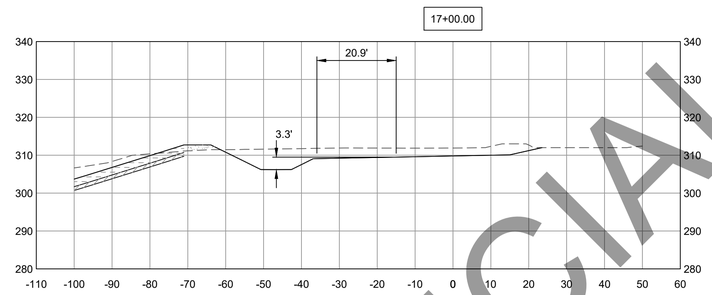
PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	S2
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 31 OF 38

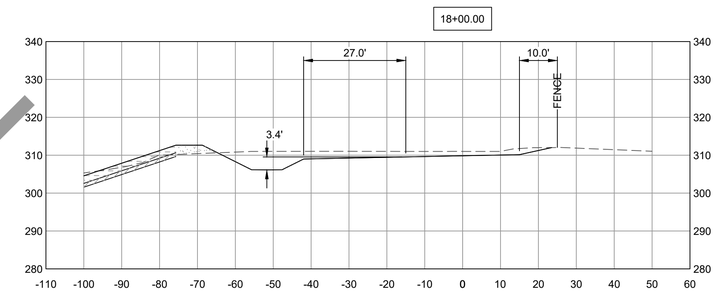


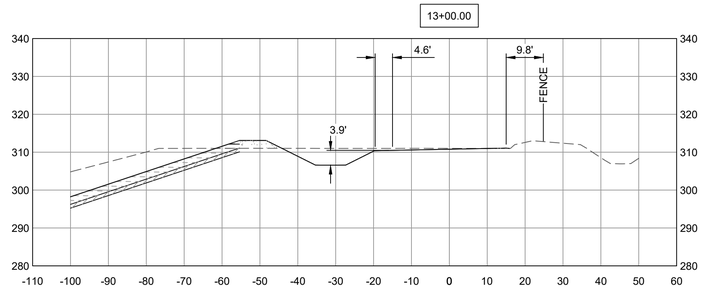


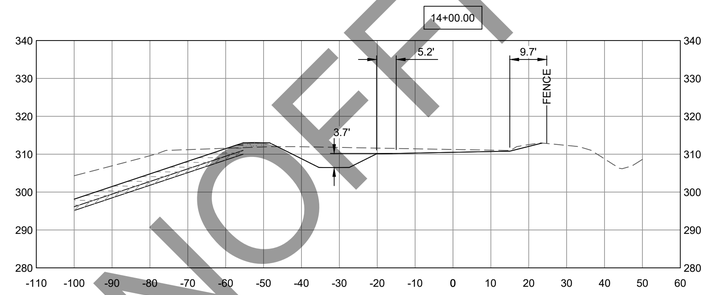


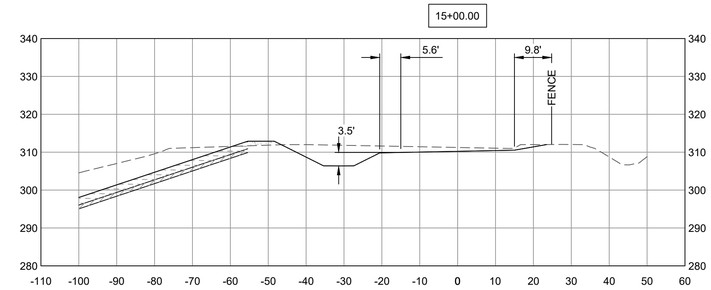


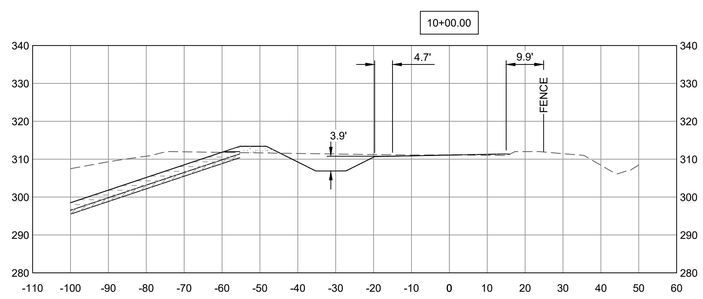


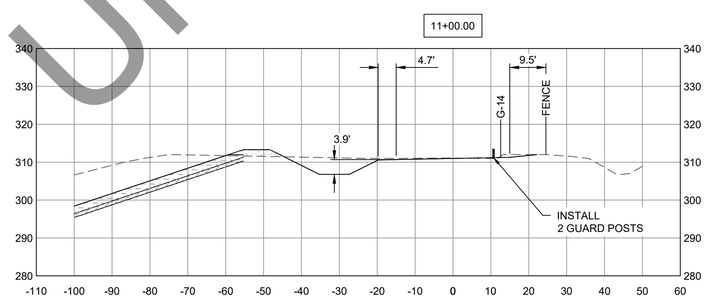


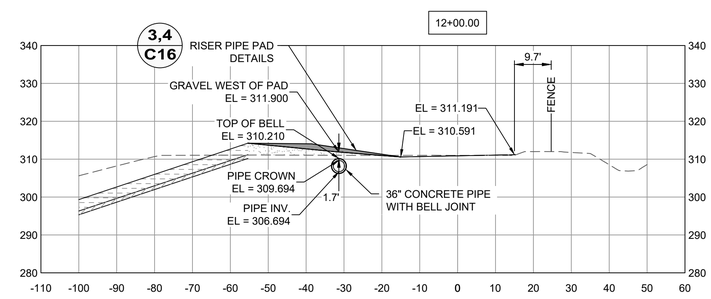












0 20'
GRAPHIC SCALE

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

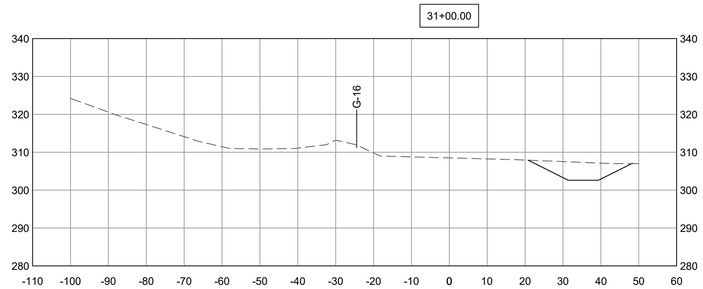
APTIM

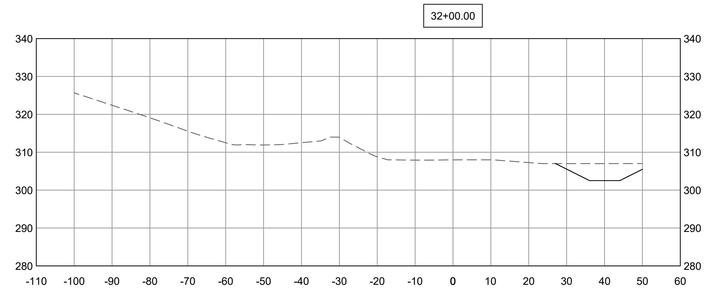
APTIM Environmental & Infrastructure, LLC

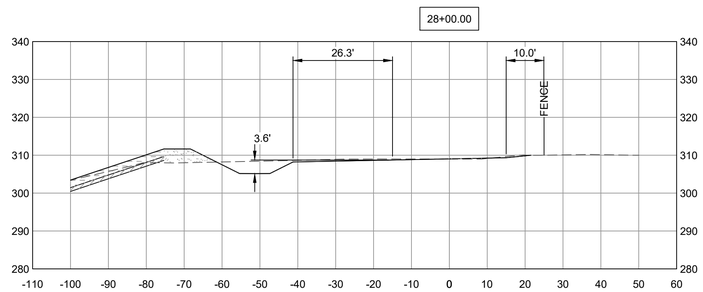
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

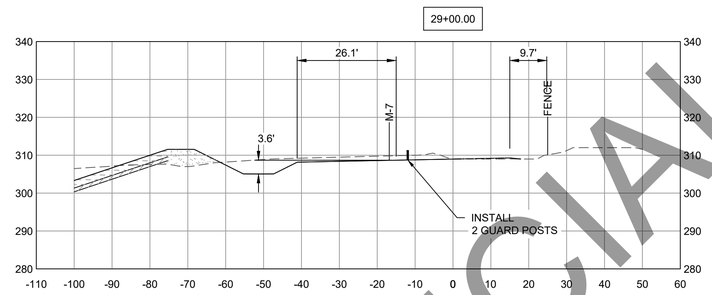
UNIT II, PHASE 1
CROSS-SECTIONS

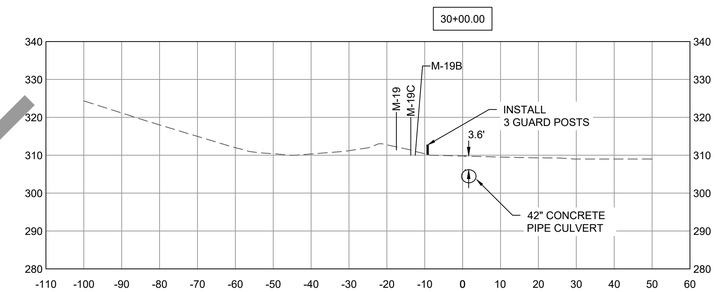
PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	**S3**
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 32 OF 38

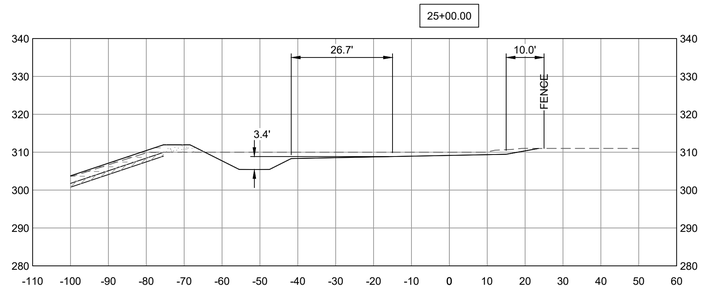


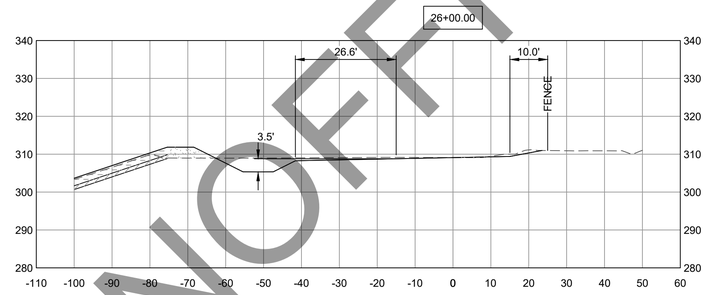


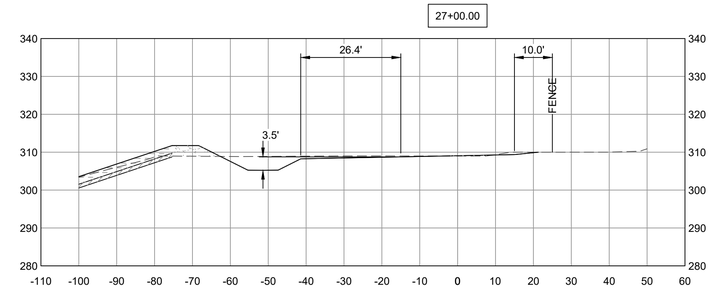


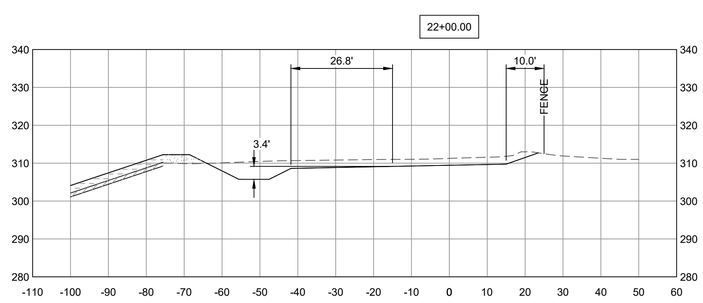


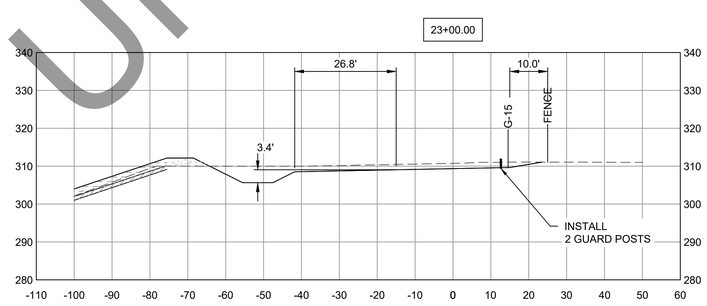


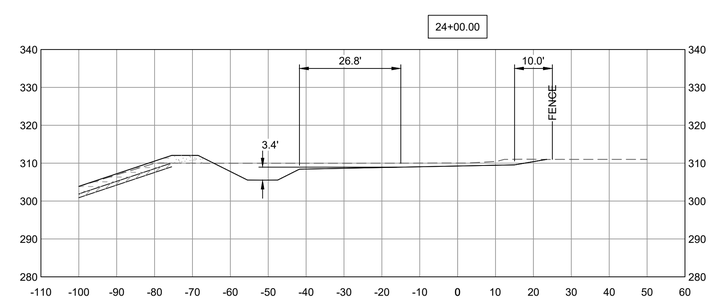












0 20'
GRAPHIC SCALE

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

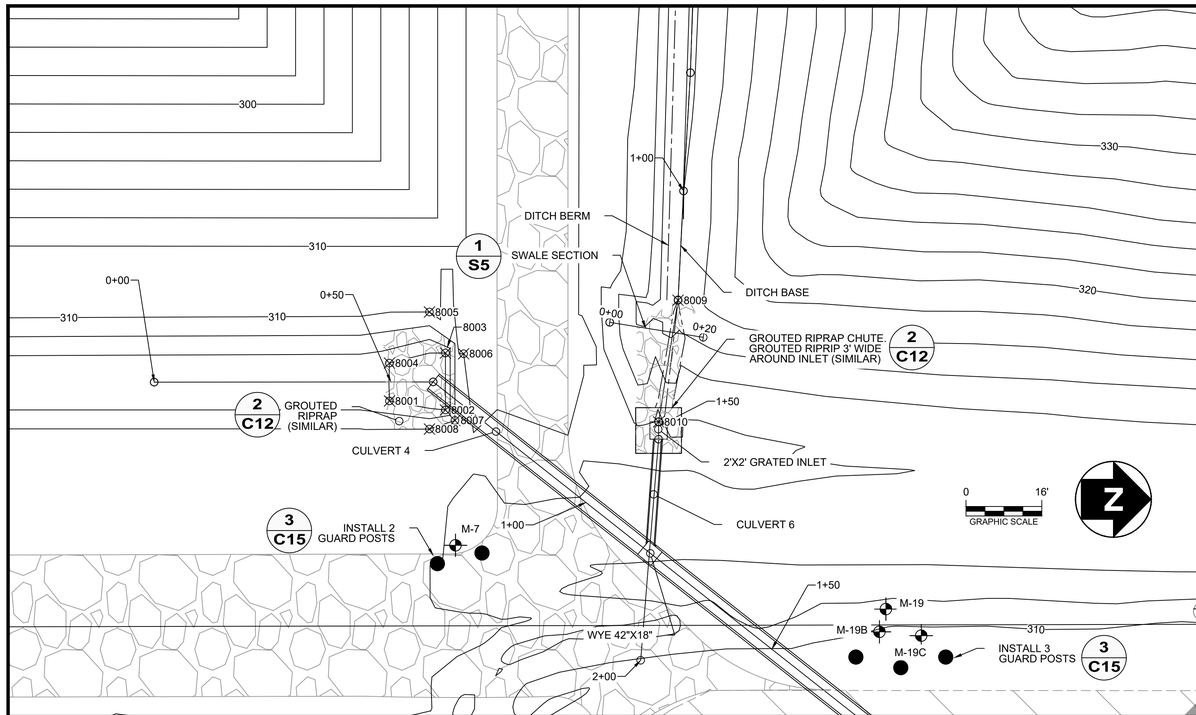
APTIM

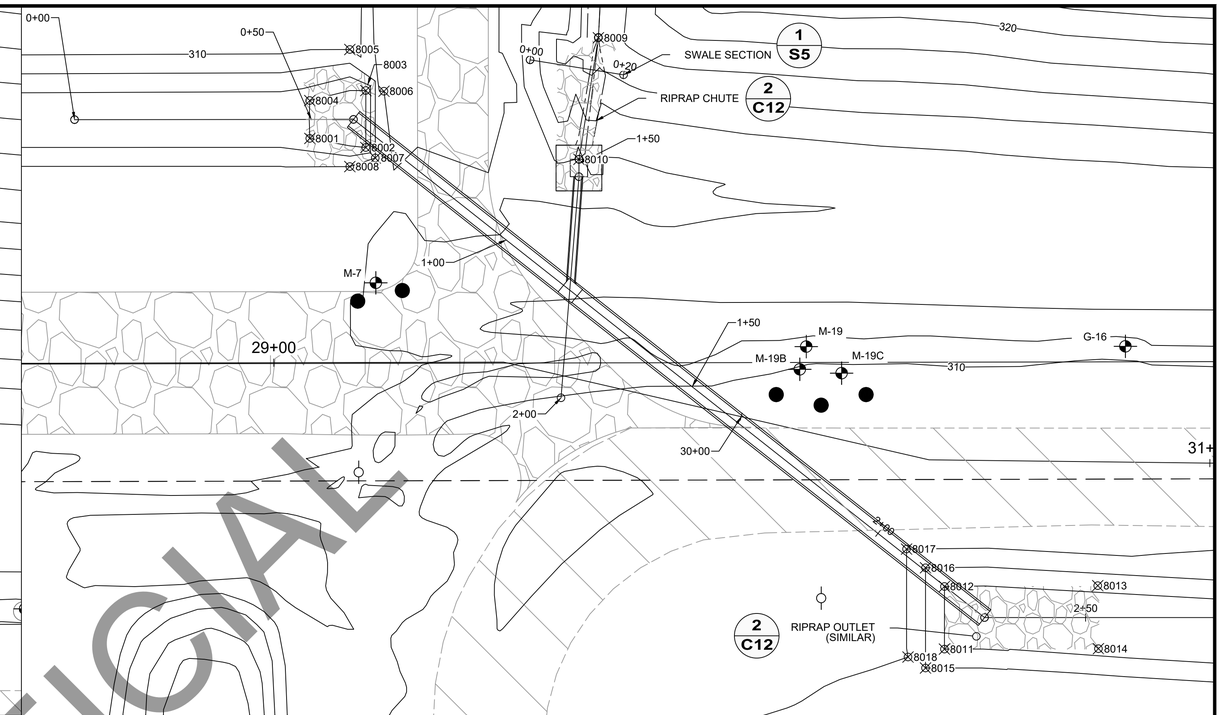
APTIM Environmental & Infrastructure, LLC

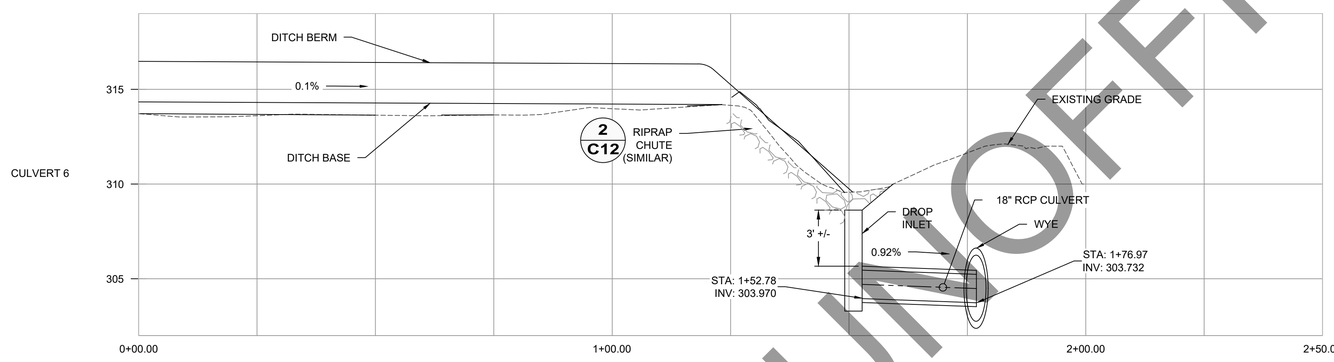
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

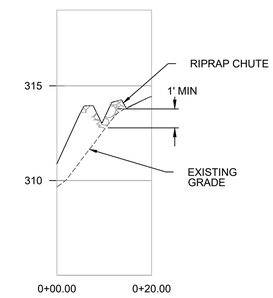
UNIT II, PHASE 1
CROSS-SECTIONS

PROJ. NO.: 631021443	DATE: APRIL 2021
DESIGNED BY: PFB	DRAWING NO.
DRAWN BY: BWM/NV/SJL	S4
CHECKED BY: MWO	
APPROVED BY: CMR	SHEET 33 OF 38

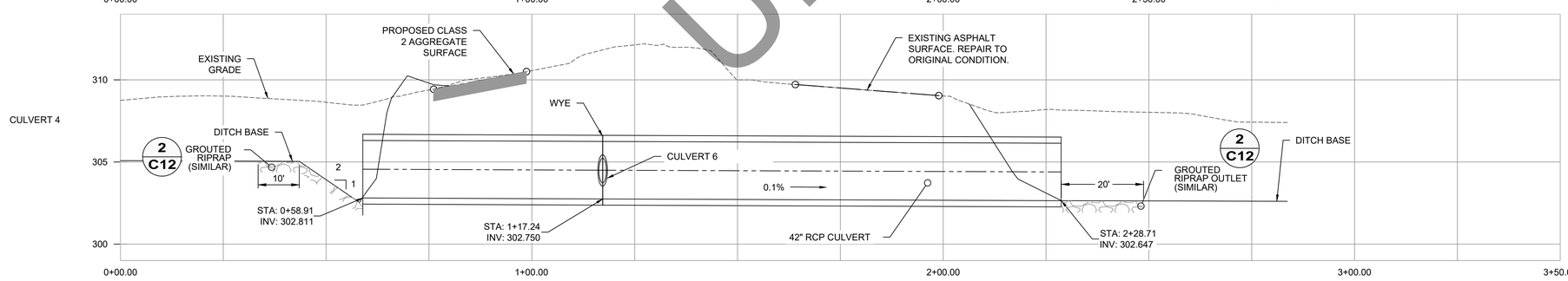








1 S5 **SWALE SECTION**
NOT TO SCALE



POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
8001	11277.31	12567.55	304.00	TOP OF RIPRAP
8002	11289.13	12569.46	304.00	TOP OF RIPRAP
8003	11289.13	12557.44	304.00	TOP OF RIPRAP
8004	11277.30	12559.55	304.00	TOP OF RIPRAP
8005	11285.76	12548.77	310.00	PROPOSED GRADE
8006	11292.97	12557.58	310.00	PROPOSED GRADE
8007	11291.13	12571.67	308.00	PROPOSED GRADE
8008	11285.76	12573.49	308.00	PROPOSED GRADE
8009	11338.25	12546.29	314.20	FLOW LINE
8010	11334.14	12571.96	309.54	INLET ELEVATION
8011	11411.32	12675.37	304.00	TOP OF RIPRAP
8012	11411.32	12662.15	304.00	TOP OF RIPRAP
8013	11443.69	12661.98	304.70	TOP OF RIPRAP
8014	11443.85	12675.28	303.25	TOP OF RIPRAP
8015	11407.32	12679.36	306.00	PROPOSED GRADE
8016	11407.32	12658.20	306.00	PROPOSED GRADE
8017	11403.32	12654.25	308.00	PROPOSED GRADE
8018	11403.64	12677.04	308.00	PROPOSED GRADE

0 16'
GRAPHIC SCALE
VERTICAL EXAGGERATION = 4

NOTES:

1. GROUTED RIPRAP TO EXTEND ABOVE TOP OF CULVERT.

REV. NO.	DATE	DESCRIPTION

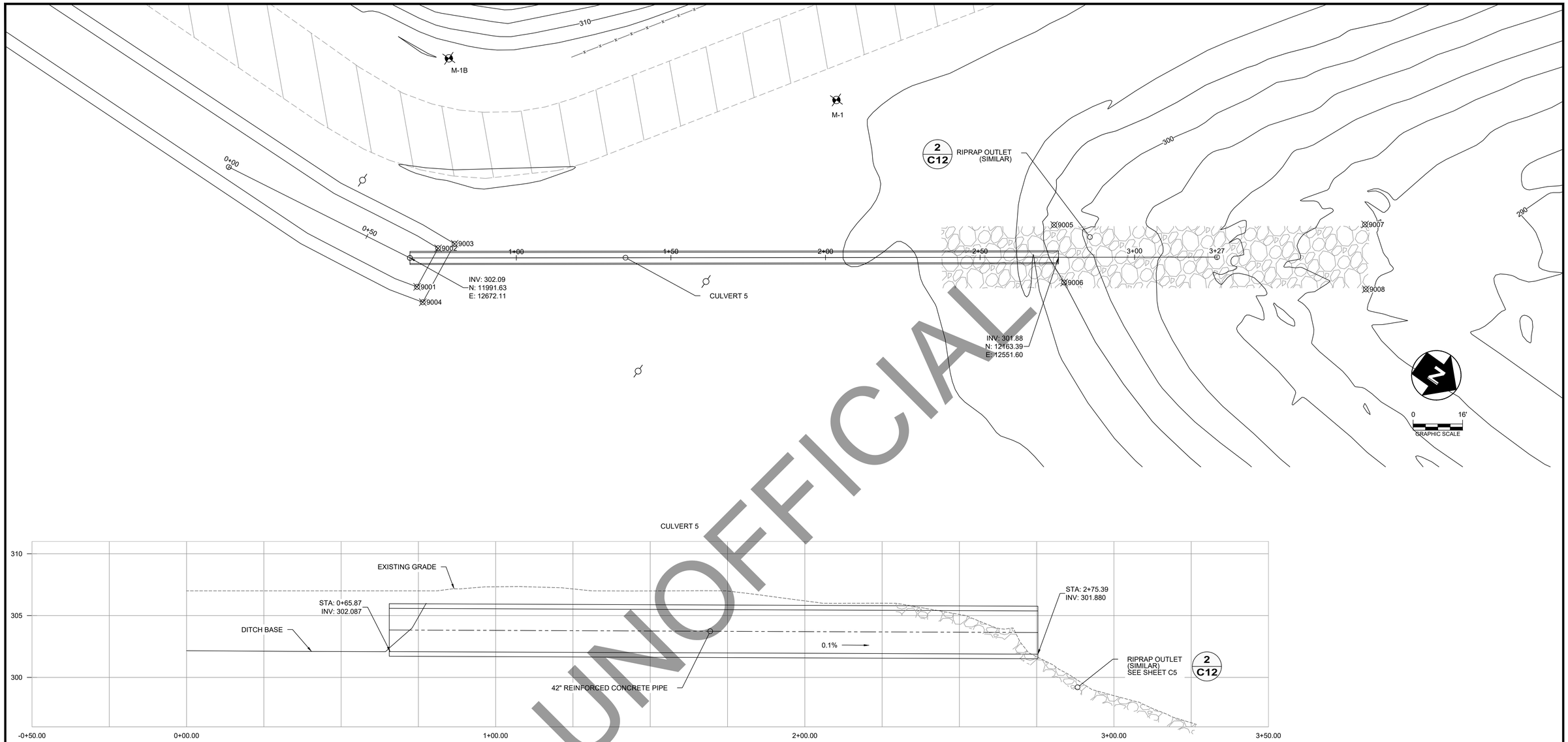
ISSUED FOR BIDDING AND CONSTRUCTION

APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

DROP INLET
CULVERT 4 & 6

PROJ. NO.: 631021443
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR
DRAWING NO. **S5**
SHEET 34 OF 38



POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
9001	11998.89	12678.46	304.00	PROPOSED GRADE
9002	11997.30	12664.32	304.00	PROPOSED GRADE
9003	12000.84	12660.05	306.00	PROPOSED GRADE
9004	12003.25	12681.47	306.00	PROPOSED GRADE
9005	12156.22	12543.83	301.53	PROPOSED GRADE RIPRAP
9006	12169.56	12557.24	302.00	PROPOSED GRADE RIPRAP
9007	12238.54	12486.01	292.44	PROPOSED GRADE RIPRAP
9008	12250.75	12503.06	292.46	PROPOSED GRADE RIPRAP

0 16'
GRAPHIC SCALE

VERTICAL EXAGGERATION = 4

REV. NO.	DATE	DESCRIPTION

ISSUED FOR BIDDING AND CONSTRUCTION

APTIM

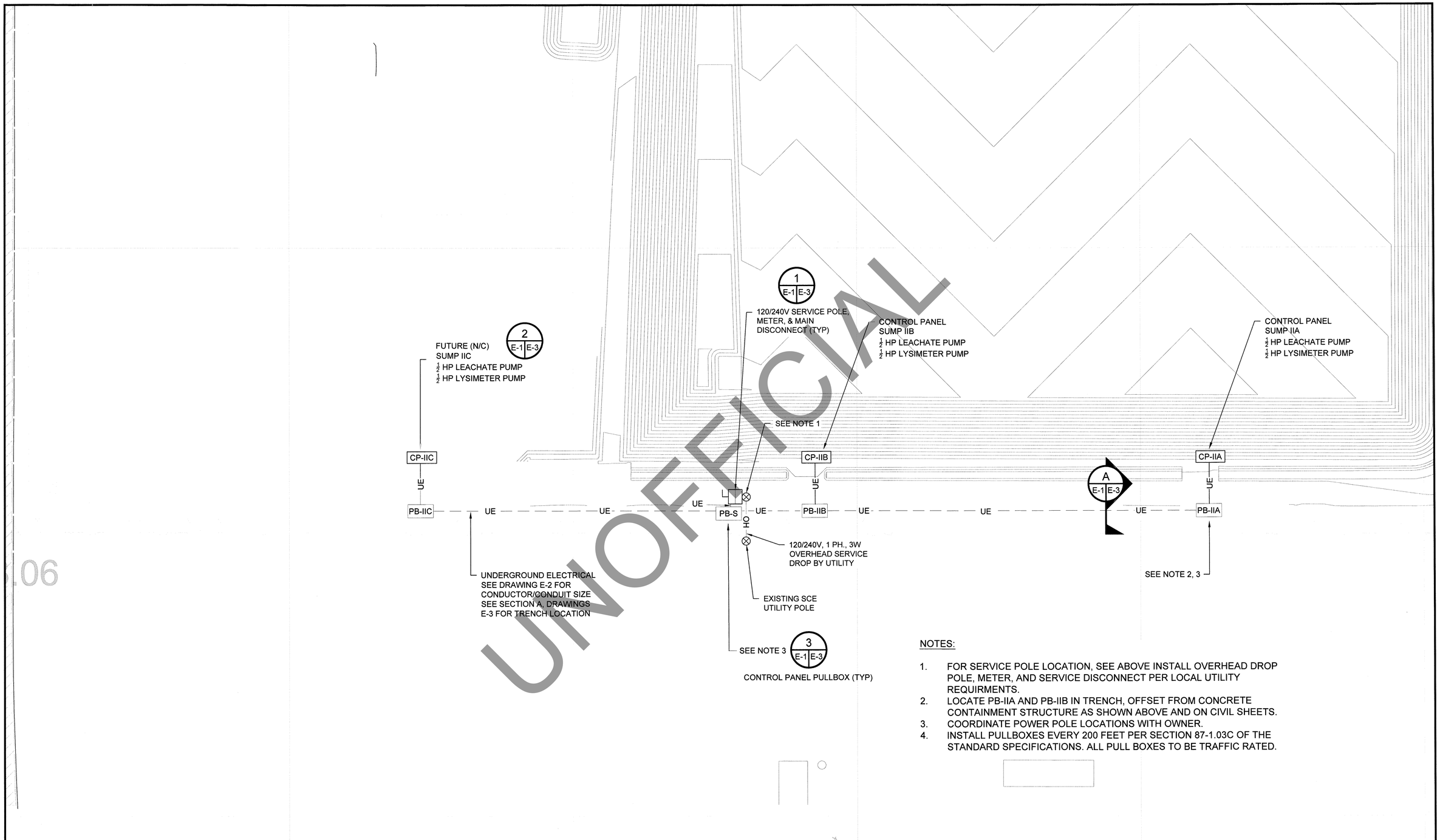
APTIM Environmental & Infrastructure, LLC

WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

PROFILE
CULVERT 5

PROJ. NO.: 631021443
DESIGNED BY: PFB
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR

DATE: APRIL 2021
DRAWING NO.
S6
SHEET 35 OF 38



NOTES:

1. FOR SERVICE POLE LOCATION, SEE ABOVE INSTALL OVERHEAD DROP POLE, METER, AND SERVICE DISCONNECT PER LOCAL UTILITY REQUIRMENTS.
2. LOCATE PB-IIA AND PB-IIB IN TRENCH, OFFSET FROM CONCRETE CONTAINMENT STRUCTURE AS SHOWN ABOVE AND ON CIVIL SHEETS.
3. COORDINATE POWER POLE LOCATIONS WITH OWNER.
4. INSTALL PULLBOXES EVERY 200 FEET PER SECTION 87-1.03C OF THE STANDARD SPECIFICATIONS. ALL PULL BOXES TO BE TRAFFIC RATED.

REV. NO.	DATE	DESCRIPTION
3.	9/13/22	ISSUED FOR CONSTRUCTION
2B.	3/2/22	2022 FINAL UPDATES FOR REVIEW
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2.	11/20/13	ISSUED FOR CONSTRUCTION
1.	6/3/13	ISSUED FOR AGENCY REVIEW
0.	04/25/11	ISSUED FOR AGENCY REVIEW

REGISTERED PROFESSIONAL ENGINEER JAMES SCOTT DAVIS 16646 ELECTRICAL STATE OF CALIFORNIA
15 SEP 2022

APTIM

APTIM Environmental & Infrastructure, LLC

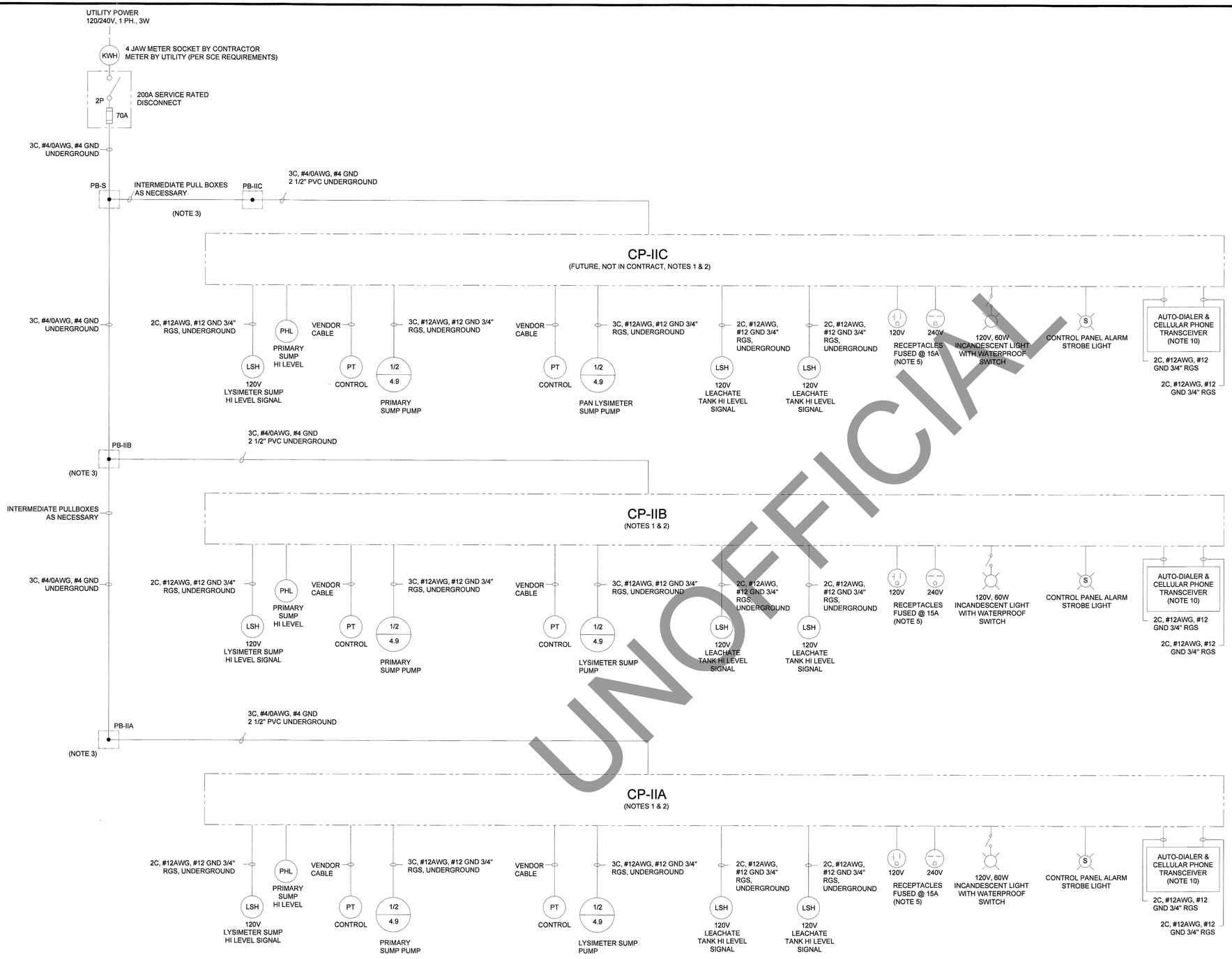
WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
ELECTRICAL DETAILS

PROJ. NO.: 631233260
DATE: APRIL 2021
DESIGNED BY: PFB
DRAWING NO.
DRAWN BY: BWM/NV/SJL
CHECKED BY: MWO
APPROVED BY: CMR

E1

SHEET 20 OF 27



NOTES:

1. REQUIREMENTS FOR LEACHATE PUMP CONTROL PANELS CP-IIA, CP-IIB, AND CP-IIC:

   ALL PUMPS 240V, 1 PH.
   PRIMARY LEACHATE SUMP PUMPS: 1/2HP
   LYSIMETER LEACHATE SUMP PUMPS: 1/2HP

   VENDOR PROVIDED CONTROL PANELS TO INCLUDE: NEMA 4 W/ THREE PT. LATCH KIT ENCLOSURE, WINDOWS FOR CONTROLS AND DISPLAYS, FUSED DISCONNECTS CAPABLE OF BEING LOCKED IN THE OPEN POSITION, MOTOR STARTERS & OVERLOAD PROTECTION, VENDOR SUPPLIED PRESSURE TRANSDUCER FOR PUMPDOWN LOGIC CONTROL, HAND-OFF-AUTO CONTROL SWITCH (SEE OPERATION LOGIC, NOTE 2). PANEL SHALL ALSO INCLUDE A 120V & 240V, 15A GFCI PROTECTED RECEPTACLE. A WEATHERPROOF 120V, 60W, MANUALLY CONTROLLED INCANDESCENT LIGHT SHALL ALSO BE INCLUDED. EACH PANEL WILL HAVE A RED STROBE LIGHT FOR INDICATION OF HIGH LEVEL IN THE LEACHATE STORAGE TANKS, THE LEACHATE SUMPS, THE LYSIMETER SUMPS, AND SECONDARY CONTAINMENT. ALL PANELS SHALL BE UL LISTED AND NORTH FACING.

2. OPERATION CONTROL LOGIC FOR LEACHATE PUMPS AT EACH STATION TO BE AS FOLLOWS:

   A. CONTROL SWITCHES FOR LEACHATE AND LYSIMETER PUMPS TO NORMALLY BE IN THE "AUTO" POSITION.

   B. EACH PUMP IS EQUIPPED WITH ITS OWN PRESSURE TRANSDUCER FOR SUMP PUMPDOWN CONTROL.

   C. THE CONTROL LOGIC SHALL ENSURE THAT NO MORE THAN ONE OF THE SUMP PUMPS AT ANY ONE STATION MAY EVER OPERATE AT ANY ONE TIME.

   D. BOTH THE LEACHATE AND LYSIMETER PUMPS WILL BE SHUTDOWN FOR A HIGH TANK LEVEL FROM RESPECTIVE LEACHATE STORAGE TANKS OR SECONDARY CONTAINMENT AND A RED STROBE LIGHT WILL BE ACTIVATED.

3. NOT ALL PULL BOXES SHOWN, SEE DRAWING E-1 FOR INTERMEDIATE PULL BOXES. ALL SPLICES/CONNECTIONS MADE IN UNDERGROUND BOXES TO BE RATED FOR SUBMERSIBLE ENVIRONMENT PER ITEM 87 OF STANDARD SPECIFICATIONS.

4. CIRCUITS GOING TO A RISER PIPE ARE ROUTED IN CONDUIT FROM THE CONTROL PANEL TO THE JUNCTION BOXES AND TO THE RISER PIPE.

5. NORMAL OPERATION AND MAINTENANCE ACTIVITIES TO LIMIT RECEPTACLE USAGE BY NOT PERMITTING THE USE OF MORE THAN ONE FULLY LOADED 120V AND ONE 240V RECEPTACLE AT ANY ONE TIME.

6. INSTALL CONDUIT SEALS ON ALL CONDUITS EXITING FROM UNDERGROUND.

7. PROVIDE TWO (2) EACH SPARE, COMPLETE CARRIAGES, PUMPS, MOTORS, TRANSDUCERS, POWER AND TRANSDUCER CABLES LONG ENOUGH FOR DEEPEST APPLICATION. DELIVER TO OWNER.

8. SCHEDULE ELECTRICAL WORK EARLY IN PROJECT TO AVOID DELAYS.

9. CONTROL PANEL SHALL HAVE READOUTS FOR FLOW AND ACCUMULATED FLOW FROM THE PRIMARY PUMP. SHALL ALSO HAVE PRIMARY SUMP AND LYSIMETER SUMP LEVEL INDICATORS.

10. PROVIDE AUTODIALER WITH 120VAC POWER WITH 4 DIGITAL INPUTS FOR MONITORING THE FOLLOWING CONDITIONS.

    A. STORAGE TANK LEVEL HIGH

    B. LEACHATE SUMP LEVEL HIGH

    C. LYSIMETER SUMP LEVEL HIGH

    D. LEACHATE CONTAINMENT LEVEL HIGH

FOR ANY OF THESE CONDITIONS THE AUTODIALER SHALL BE PROGRAMMED TO AUTOMATICALLY CALL PREARRANGED PHONE NUMBER(S) USING THE CELLULAR TRANSCEIVER AND SHALL PROVIDE VOICE MESSAGE(S) IDENTIFYING THE ABNORMAL CONDITION(S). SEE SPECIFICATION 16911 FOR ADDITIONAL REQUIREMENTS.

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16646
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STATE OF CALIFORNIA
15 SEP 2022

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WOODVILLE LANDFILL
TULARE COUNTY, CALIFORNIA

UNIT II, PHASE 1
ELECTRICAL ONE-LINE DIAGRAM

PROJ. NO.: 631233260
DATE: APRIL 2021
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DRAWN BY: BWM/NV/SJL
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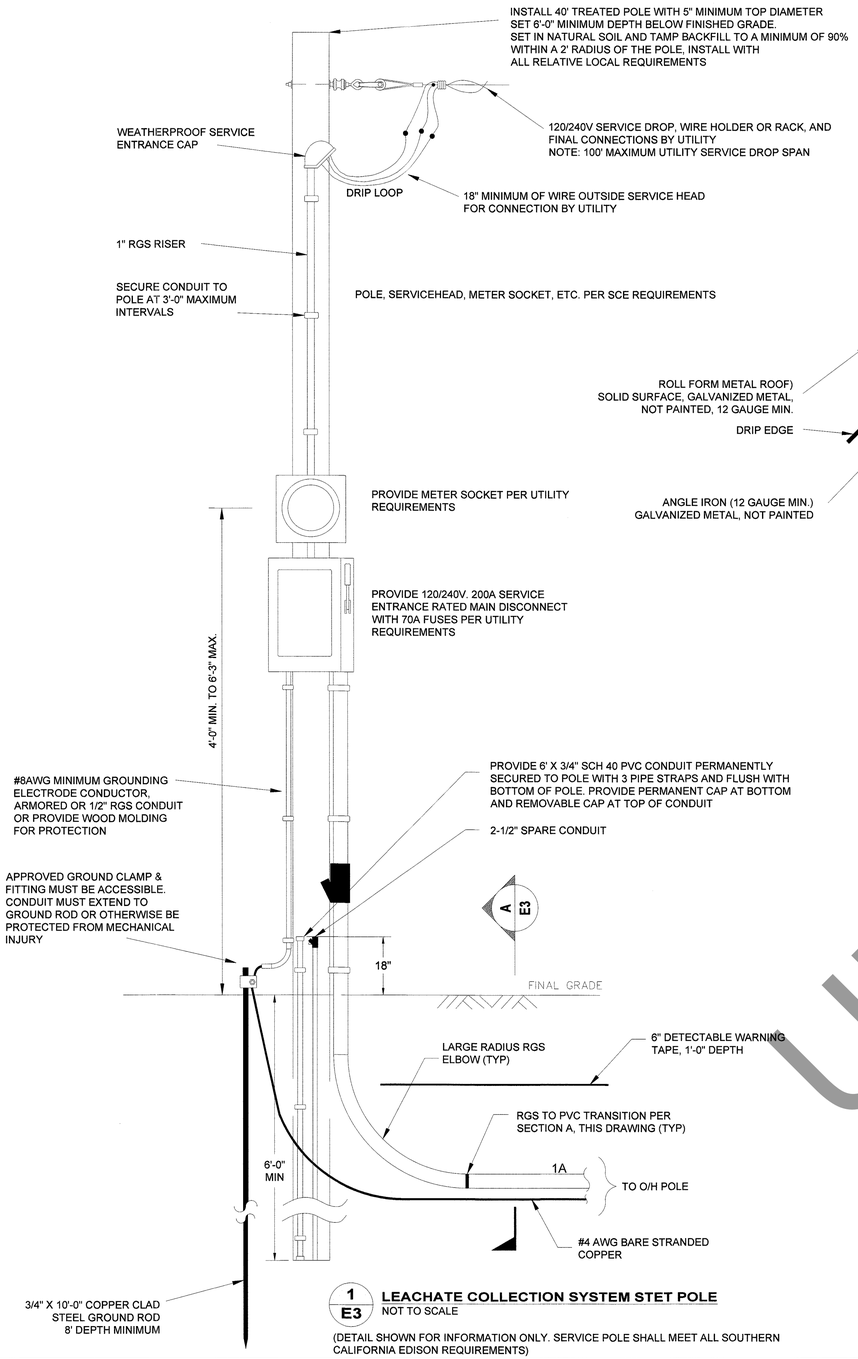
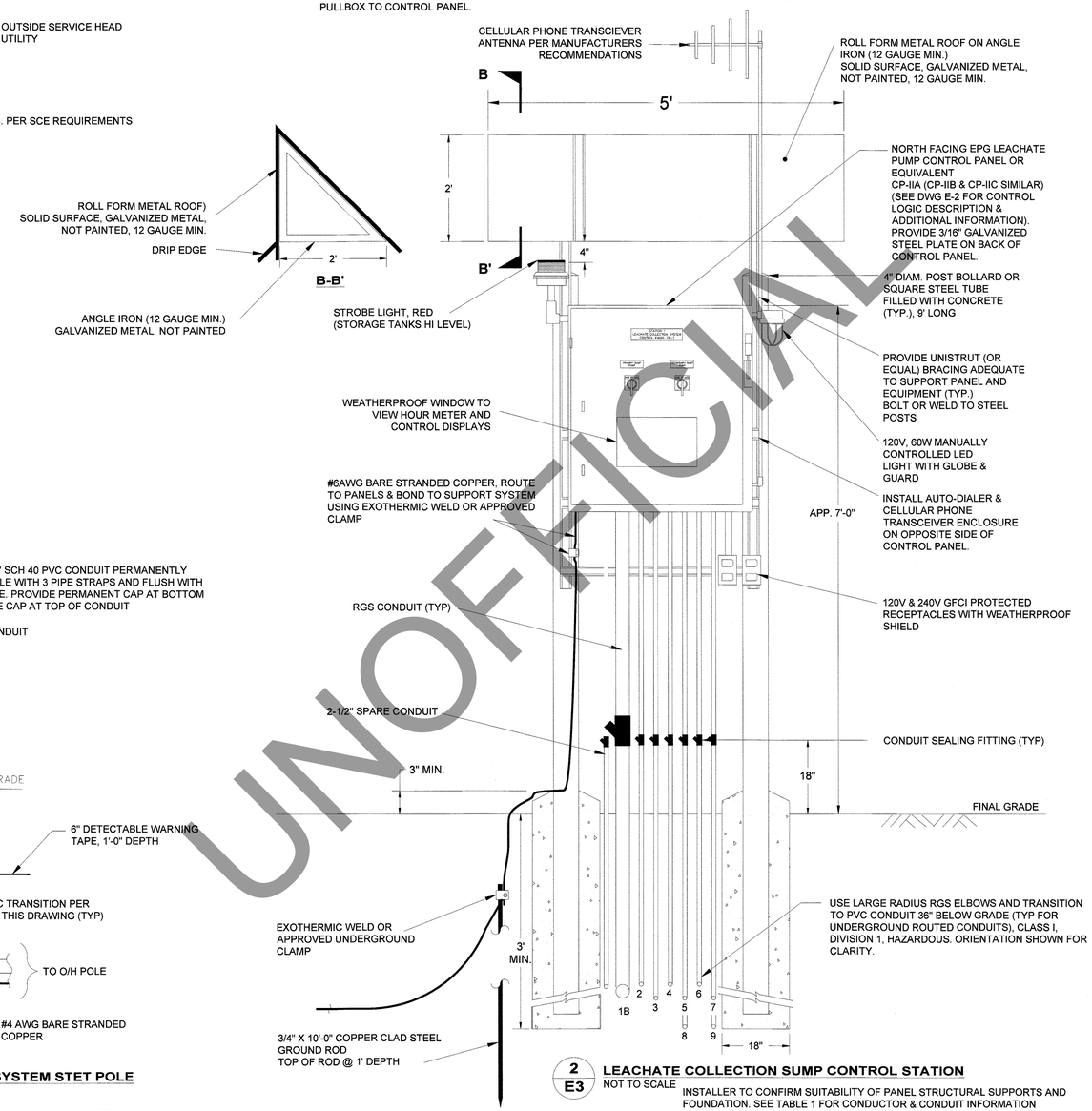
DRAWING NO. **E2**
SHEET 21 OF 27

NO.	CIRCUIT	CONDUCTORS / CONDUIT**
1A, 1B, 1C, 1D	120/240V, 3W DISTRIBUTION	3C #4/0AWG, #4G, 2 1/2" C
2	240V, LEACHATE SUMP PUMP POWER	3C #12AWG, #12G, 3/4" C
3	240V,PAN LYSIMETER SUMP PUMP POWER	3C #12AWG, #12G, 3/4" C
4	4-20mA, LEACHATE SUMP PUMP PRESSURE TRANSDUCER	2 PAIR, #16AWG, TWSP, 3/4" C
5	4-20mA, PAN LYSIMETER SUMP PUMP PRESSURE TRANSDUCER	2 PAIR, #16AWG, TWSP, 3/4" C
6	120V, LEACHATE TANK HI LEVEL SIGNAL FROM LEACHATE STORAGE TANKS	2C #12AWG, #12G, 3/4" C
7	120V, LEACHATE CONTAINMENT HI LEVEL SIGNAL FROM LEACHATE CONTAINMENT	2C #12AWG, #12G, 3/4" C
8	120V, PAN LYSIMETER SUMP HI LEVEL SIGNAL	2C #12AWG, #12G, 3/4" C
9	120V, PRIMARY SUMP HI LEVEL SIGNAL	
10	120V, AUTODIALER & CELLULAR PHONE TRANSCIEVER	2C #12AWG, #12G, 3/4" C
11	SIGNAL, DRY CONTACT INPUTS FROM CONTROL PANEL TO AUTODIALER	4 PAIR #16AWG TWSP, 3/4" RGS

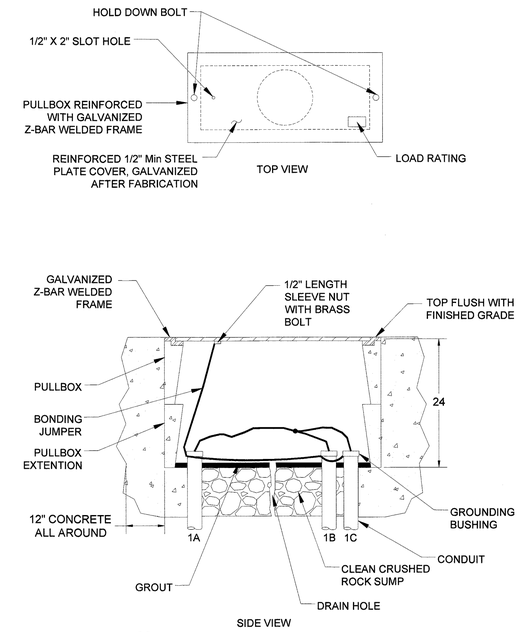
** CIRCUITS GOING TO A RISER PIPE ARE ROUTED IN CONDUIT FROM THE CONTROL PANEL TO THE JUNCTION BOX TO THE RISER PIPE AND FROM PULLBOX TO CONTROL PANEL.



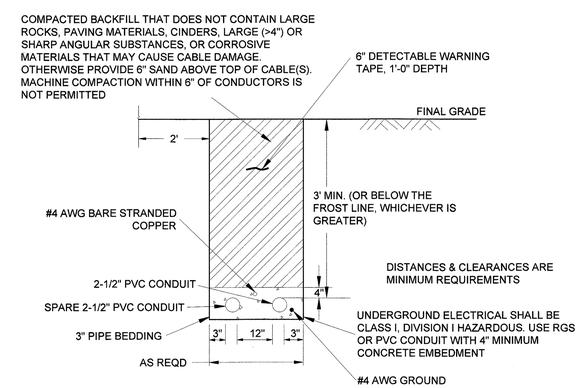
1 / E3 LEACHATE COLLECTION SYSTEM STET POLE
NOT TO SCALE
(DETAIL SHOWN FOR INFORMATION ONLY. SERVICE POLE SHALL MEET ALL SOUTHERN CALIFORNIA EDISON REQUIREMENTS)



2 / E3 LEACHATE COLLECTION SUMP CONTROL STATION
NOT TO SCALE
INSTALLER TO CONFIRM SUITABILITY OF PANEL STRUCTURAL SUPPORTS AND FOUNDATION. SEE TABLE 1 FOR CONDUCTOR & CONDUIT INFORMATION



3 / E3 NO. 6(T) TRAFFIC PULL BOX WITH EXTENSION
NOT TO SCALE
SEE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION ES-8B FOR FURTHER DETAILS



A / E3 TYPICAL UNDERGROUND ELECTRICAL
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER JAMES SCOTT DAVIS 16646 ELECTRICAL STATE OF CALIFORNIA 15 SEP 2022

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