

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
DBA REGEN MONTEREY

NOTICE TO CONTRACTORS

INVITATION TO BID

PROJECT: 2025 Landfill Gas Collection and Control (GCCS) Improvements – Phases I and II

OWNER: Monterey Regional Waste Management District DBA ReGen Monterey (ReGen)
PHYSICAL: 14201 Del Monte Boulevard, Monterey County, CA 93908
MAILING: P.O. Box 1670, Marina, California 93933-1670
Project Manager: David I. Ramirez, P.E.
Phone: (831) 261-2153 Email: dramirez@regenmonterey.org

ENGINEER: Tetra Tech, Inc.
Paul J. Stout, P.E.
21700 Copley Drive, Suite 200
Diamond Bar, California, 91765
Phone: (909) 860-7777 Email: Paul.Stout@tetrattech.com

CALL FOR BIDS:

You are invited to bid on a Public Works contract for the 2025 Landfill Gas Collection and Control (GCCS) Improvements – Phases I and II at ReGen’s existing landfill site. The project includes pre-survey, drilling, installation, tie-in, and post survey of (x22) new vertical wells and the decommission of (x3) vertical wells. Construction will occur in (x2) mobilizations with (x10) wells scheduled for a June/July 2025 installation, and (x12) wells scheduled for a September 2025 installation.

Bid Documents (including plans, specifications, and bid forms) may be obtained by contacting David Ramirez at dramirez@regenmonterey.org or Paul Stout at Paul.Stout@tetrattech.com. Supplemental information for bidders, such as drill logs, reports of geological information, soils testing data, etc., are available for examination without charge at the ReGen Monterey office. Bids shall be submitted on the Bid Forms provided with the Bid Documents.

Pursuant to Section 1770 and the following sections of the California Labor Code, the contractor shall pay not less than the prevailing rate of per diem wages as determined by the California Department of Industrial Relations for projects in Monterey County.

All contract work must be completed within ninety (90) calendar days after the Notice-to-Proceed is issued by ReGen Monterey.

Bids may be submitted electronically to David Ramirez at dramirez@regenmonterey.org or to the ReGen Monterey office located at 14201 Del Monte Blvd., Monterey County, CA 93908 until **2:00 p.m. (local time) on Tuesday, June 3, 2025** (P.O. Box 1670, Marina, CA 93933-1670). Any bids received after that time will not be considered. Oral, telephonic, facsimile, or telegraphic bids are invalid and will not receive consideration.

Questions regarding the project or work required may be addressed to Paul Stout, Project Manager for Tetra Tech, at Paul.Stout@tetrattech.com **and** David Ramirez, Project Manager for ReGen Monterey at dramirez@regenmonterey.org. Questions must be submitted by **12:00 p.m. (local time) on Tuesday, May 27, 2025**.

The successful bidder must be licensed in the State of California and must demonstrate acceptable experience of the type of work described in the Bid Documents. ReGen Monterey reserves the right to waive any irregularities and to reject any or all bids.

Dated: May 20, 2025

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

Publication date: May 20, 2025

Monterey Regional Waste Management District
2025 Gas Collection and Control System Improvements - Phases I and II
Bid Schedule
Prepared By: Tetra Tech
May 20, 2025

	Item	Phase I Quantity	Unit	Unit Price	Total
1	Mobilization/Demobilization	1	LS		
2	Survey (Pre and Post Construction)	1	LS		
3	Drilling and Completion of 36" Diameter Boreholes (assumed well depth maximum of 100 feet below grade)	1000	VF		
4	Vertical Well Borehole - Materials and Installation (Gravel, Soil, Geotextile 6" SDR-11 Perforated and Solid Pipe, Bentonite Seals, Wellbore Seal, Safety Gate)	1000	VF		
5	6" HDPE SDR-17 Solid Pipe and Fittings, Above Grade (Ground Stabilization) - Materials and Installation	1700	LF		
6	6" HDPE SDR-17 Solid Pipe and Fittings, Below Grade (Trenching and Backfill) - Materials and Installation	160	LF		
7	18" HDPE SDR-17 Solid Pipe and Fittings, Above Grade (Ground Stabilization) - Materials and Installation	0	LF		
8	18" HDPE SDR-17 Solid Pipe and Fittings, Below Grade (Trenching and Backfill) - Materials and Installation	0	LF		
9	12" Corrugated Metal Pipe (CMP) Road Crossing - Materials and Installation	160	LF		
10	24" CMP Road Crossing - Materials and Installation	0	LF		
11	2" QED Vertical Wellhead - Materials and Installation	10	EA		
12	Decommissioning/ Abandonment of Vertical Wells	0	EA		
				TOTAL	

Abbreviations

LS	Lump Sum
LF	Linear Foot
EA	Each
HDPE	High-Density Polyethylene
SDR	Standard Dimension Ratio
VF	Vertical Foot

Monterey Regional Waste Management District
2025 Gas Collection and Control System Improvements - Phases I and II
Bid Schedule
Prepared By: Tetra Tech
May 20, 2025

	Item	Phase II Quantity	Unit	Unit Price	Total
1	Mobilization/Demobilization	1	LS		
2	Survey (Pre and Post Construction)	1	LS		
3	Drilling and Completion of 36" Diameter Boreholes (assumed well depth maximum of 100 feet below grade)	1200	VF		
4	Vertical Well Borehole - Materials and Installation (Gravel, Soil, Geotextile 6" SDR-11 Perforated and Solid Pipe, Bentonite Seals, Wellbore Seal, Safety Gate)	1200	VF		
5	6" HDPE SDR-17 Solid Pipe and Fittings, Above Grade (Ground Stabilization) - Materials and Installation	1520	LF		
6	6" HDPE SDR-17 Solid Pipe and Fittings, Below Grade (Trenching and Backfill) - Materials and Installation	120	LF		
7	18" HDPE SDR-17 Solid Pipe and Fittings, Above Grade (Ground Stabilization) - Materials and Installation	1650	LF		
8	18" HDPE SDR-17 Solid Pipe and Fittings, Below Grade (Trenching and Backfill) - Materials and Installation	120	LF		
9	12" Corrugated Metal Pipe (CMP) Road Crossing - Materials and Installation	120	LF		
10	24" CMP Road Crossing - Materials and Installation	120	LF		
11	2" QED Vertical Wellhead - Materials and Installation	12	EA		
12	Decommissioning/ Abandonment of Vertical Wells	3	EA		
				TOTAL	

Abbreviations

LS	Lump Sum
LF	Linear Foot
EA	Each
HDPE	High-Density Polyethylene
SDR	Standard Dimension Ratio
VF	Vertical Foot

MONTEREY COUNTY, CALIFORNIA
MAY 2025



DETAIL INDICATOR

SHEET ON WHICH DETAIL IS REFERENCED

WELL BORE REINFORCEMENT GRATE



1 — DETAIL NUMBER

DS2 — SHEET NUMBER ON WHICH DETAIL APPEARS

SHEET ON WHICH DETAIL APPEARS

WELL BORE REINFORCEMENT GRATE

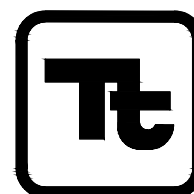
DETAIL

SCALE: NOT TO SCALE

1 → DETAIL NUMBER

DS2 → SHEET NUMBER ON WHICH DETAIL APPEARS

NOTE: THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, AND UTILITY LINES MAY EXIST WHERE NONE ARE SHOWN. SOME INFORMATION MAY HAVE BEEN DERIVED FROM INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. SUCH INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME THE CONTRACTOR BEGINS CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES AT LEAST 48 HOURS BEFORE CONSTRUCTION. THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF PERTINENT UTILITIES, LANDFILL LINERS, AND OTHER EXISTING FEATURES IN OR NEAR THE AREA OF WORK, WHETHER INDICATED ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL NOTIFY THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE IF THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL COORDINATE ANY POTENTIAL DISRUPTIONS IN UTILITY SERVICE WITH THE UTILITY COMPANIES AFFECTED AT LEAST 24 HOURS BEFORE THE DISRUPTION. THE CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING UTILITIES AT THE CONTRACTOR'S EXPENSE.

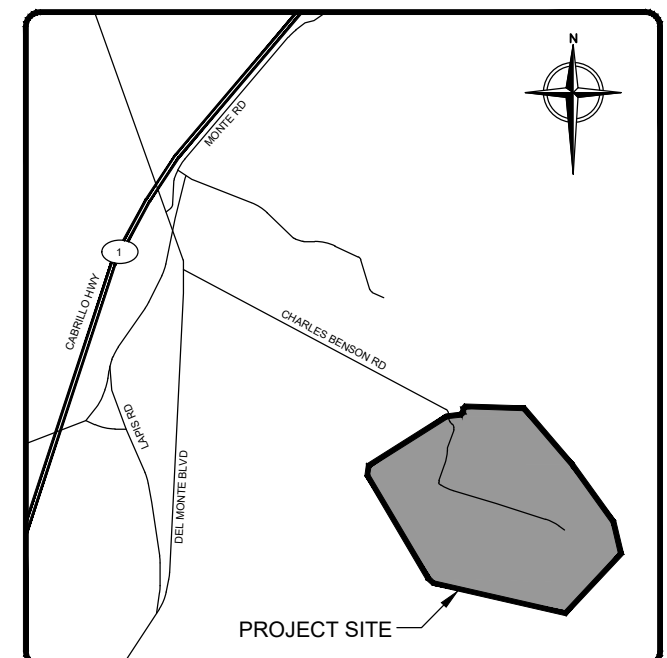


TETRA TECH

**21700 Copley Drive
Suite 200
Diamond Bar, CA 91765
Tel: (909) 860-7777
Fax (909) 396-1768**

SHEET INDEX

1	NOTES
2	GCCS AS-BUILT SITE PLAN
3	CONSTRUCTION SITE PLAN
4	CONSTRUCTION SITE PLAN
5	CONSTRUCTION SITE PLAN
DS1	WELL SCHEDULE/ LANDFILL GAS DETAILS
DS2	LANDFILL GAS DETAILS
DS3	LANDFILL GAS DETAILS
DS4	LANDFILL GAS DETAILS



LOCATION MAP

SCALE: 1"=10 MILES
SOURCE: YAHOO MAPS

ISSUED FOR BIDDING

This drawing represents intellectual property of Tetra Tech. Any modification to the original by other than Tetra Tech personnel violates its original purpose and as such is rendered void. Tetra Tech will not be held liable for any changes made to this document without express written consent of the originator.

PAUL J. STOUT, P.E.

P.E. Lic. No. C052827	Date
-----------------------	------

GENERAL NOTES:

1. AERIAL SURVEY OF THE LANDFILL PROPERTY WAS PERFORMED BY MRWMD ON MAY 16, 2025.
2. 2014 GCCS AS-BUILT INFORMATION PROVIDED BY GOLDER, DATE OF RECORD DRAWINGS: JUNE 3, 2015.
3. SUPPLEMENTAL AS-BUILT INFORMATION OBTAINED BY TETRA TECH DURING SITE VISIT ON JANUARY 8 & 9, 2019.
4. PROPERTY, LANDFILL SOLID WASTE BOUNDARY, PHASE DELINEATION AND BUILDING IDENTIFICATION PROVIDED BY WHITSON ENGINEERING DRAWING TITLED "LANDFILL & RECYCLING FACILITIES" (4/26/2011).
5. GCCS AS-BUILT UPDATES PROVIDED BY MRWMD VIA EMAIL DATED OCTOBER 28 AND NOVEMBER 5, 2020. SURVEY PROVIDED BY WHITSON ENGINEERING, DATE OF SURVEY: DECEMBER 12, 2020.
6. WELLS AND LATERAL TIE INS CONSTRUCTED IN PHASES IIB AND IIC OF THE 2019 GCCS IMPROVEMENTS PROJECT ARE DESIGN LOCATIONS PER REVISION 10 OF THE ISSUED FOR CONSTRUCTION SET DATED SEPTEMBER 10, 2021.
7. RNG FACILITIES, EQUIPMENT, AND PIPING LOCATIONS ARE FROM THE ISSUED FROM CONSTRUCTION SET DATED MARCH 6, 2020 AND ARE DESIGN LOCATIONS
8. TETRA TECH 2019 GCCS DESIGN DATED DECEMBER 28, 2020 INCORPORATED INTO AS-BUILT.
9. WELLS AND LATERAL PIPING CONSTRUCTED IN PHASE I OF THE 2022 GCCS IMPROVEMENTS PROJECT ARE DESIGN LOCATIONS PER THE ISSUED FOR CONSTRUCTION SET DATED AUGUST 23, 2022.
10. GCCS AS-BUILT UPDATES FOR A PORTION OF THE PHASE I LATERALS OF THE 2022 GCCS IMPROVEMENTS PROVIDED BY MRWMD VIA EMAIL DATED SEPTEMBER 28, 2022. SURVEY PROVIDED BY WHITSON ENGINEERING, DATE OF SURVEY: SEPTEMBER 16-29, 2022.
11. 2024 GCCS AS-BUILT PHASE I SURVEY COMPLETED BY WHITSON ENGINEERS ON APRIL 29, 2024 AND PROVIDED BY MRWMD ON APRIL 30, 2024.
12. 2024 GCCS AS-BUILT PHASE II SURVEY COMPLETED BY WHITSON ENGINEERS PROVIDED BY MRWMD ON OCTOBER 1, 2024.

CONSTRUCTION NOTES:

1. CONTRACTOR TO SURVEY AND STAKE PIPING ALIGNMENTS WITH GRADES AND OBTAIN APPROVAL FROM THE ENGINEER AND OWNER PRIOR TO PROCEEDING.
2. THE CONTRACTOR SHALL LAY OUT THE PIPE TO CONFORM TO FIELD CONDITIONS. PROVIDE 36" MINIMUM COVER AND 5% MINIMUM SLOPE CROSSING BELOW PERIMETER AND MAIN HAUL ROADS. PROVIDE MINIMUM PIPE DRAINAGE SLOPES OF 3% WITHIN WASTE LIMIT AND 1% OUTSIDE OF WASTE LIMIT. CONTRACTOR RESPONSIBLE FOR CUT AND FILL BENEATH PIPE TO ENSURE PROPER DRAINAGE, AS APPROVED BY THE ENGINEER AND OWNER.
3. FEATURES, CONTOURS, AND ELEVATIONS OF THESE BASE MAPS ARE APPROXIMATE INDICATIONS OF CURRENT AND FUTURE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR INSPECTING WORK AREAS AT PRE-BID SITE WALK AS CURRENT CONDITIONS FOR BIDDING PURPOSES. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS OF THESE ELEMENTS PRIOR TO, AND DURING CONSTRUCTION, AND SHALL FINALIZE THE GAS SYSTEM LOCATIONS TO ACCOMMODATE FINAL FIELD CONDITIONS, AS APPROVED BY THE ENGINEER AND OWNER.
4. ALL CONNECTIONS TO EXISTING PIPING SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO BIDDING. SOME CONNECTIONS MAY REQUIRE EXCAVATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL DISCONNECTIONS AND RECONNECTIONS FOR INSTALLATION OF NEW PIPING WHERE NECESSARY.
6. WORK SHALL NOT VARY FROM DESIGN WITHOUT APPROVAL OF THE ENGINEER. WORK THAT VARIES FROM DESIGN WITHOUT APPROVAL WILL BE SUBJECT TO REWORK TO MAINTAIN ADHERENCE TO THE APPROVED DESIGN. ANY REWORK AS A RESULT WILL NOT BE PAID FOR.
7. ALL PIPING GREATER THAN 6 INCHES IN DIAMETER SHALL BE PRESSURE TESTED FOR 1 HOUR AT 10 PSIG. GREATER THAN 10% DROP IN PRESSURE OVER 1 HOUR SHALL INDICATE A LEAK EXISTS AND SHALL BE REPAIRED AND RETESTED. PIPE SHALL BE TESTED IN SEGMENTS NO LONGER THAN 2,000 FEET UNLESS APPROVED BY THE ENGINEER.
8. CONTRACTOR TO REMOVE AND REUSE EXISTING WELLHEADS, PUMPS, PIPING AND FITTINGS WHERE APPLICABLE. CAP ALL ABANDONED PIPE. IF ABANDONED PIPE IS HDPE, USE FUSED ON HDPE CAP. IF ABANDONED PIPE IS PVC, USE PVC SCH 40 CAP SECURED WITH SET SCREWS AT 90° AND CEMENT.
9. ALL EXISTING PIPING THAT IS NOT IN USE, AS DIRECTED BY THE ENGINEER, SHALL BE RELOCATED BY THE CONTRACTOR TO THE ON-SITE STORAGE FACILITY.
10. CONTRACTOR TO USE FACTORY MOLDED/FABRICATED CONCENTRIC REDUCER FITTINGS AS NECESSARY.
11. CONTRACTOR TO PROTECT IN PLACE THE EXISTING ABOVE AND BELOW GRADE LATERALS DURING CONSTRUCTION. IF EXISTING PIPING NEEDS TO BE RELOCATED TEMPORARILY DURING CONSTRUCTION, THE CONTRACTOR WILL ENSURE CONSTANT SLOPE IS MAINTAINED ON THE PIPE AND THE LATERALS WILL BE RETURNED TO THEIR EXISTING CONDITION FOLLOWING CONSTRUCTION ACTIVITIES.
12. ELECTROFUSION COUPLERS SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER AND OWNER.
13. CONTRACTOR SHALL PREPARE BID ASSUMING THAT THE WELLS WILL BE INSTALLED PRIOR TO LATERAL PIPING. LATERAL PIPING ALIGNMENTS AND ROUTES SUBJECT TO CHANGE PENDING INSTALLED WELL GAS QUALITY AND ASSOCIATED SCOPE ADJUSTMENTS WILL BE ASSESSED VIA THE PROVIDED UNIT PRICE VALUES IN THE BID.
14. CONTRACTOR SHALL PREPARE THE POST CONSTRUCTION SURVEY OF ALL INSTALLED PIPING, WELLS, VALVES, ROAD CROSSINGS, AND RELATED MATERIALS. FAILURE TO COMPLETE THE POST CONSTRUCTION SURVEY OF ALL INSTALLED MATERIALS MAY RESULT IN LACK OF PAYMENT.

ISSUED FOR BIDDING

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP
DATE OF ISSUE	05/20/2025	DRAWN BY CME/CDH DESIGNED BY CME	CHECKED BY CME	APPROVED BY PJS		

**TETRA TECH**

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
MONTEREY COUNTY, CALIFORNIA

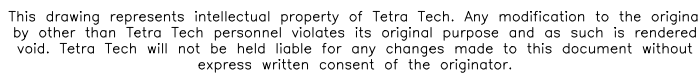
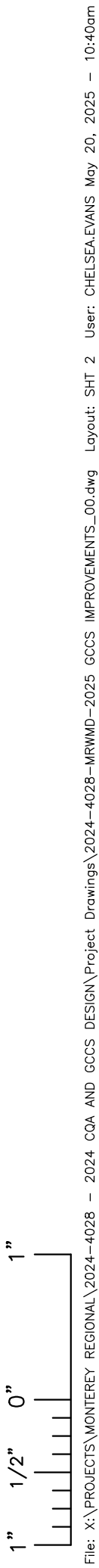
2025 GCCS IMPROVEMENTS - PHASES I AND II

SHEET NO.

1

PROJECT NO.
24-4028

This drawing represents intellectual property of Tetra Tech. Any modification to the original by other than Tetra Tech personnel violates its original purpose and as such is rendered void. Tetra Tech will not be held liable for any changes made to this document without express written consent of the originator.

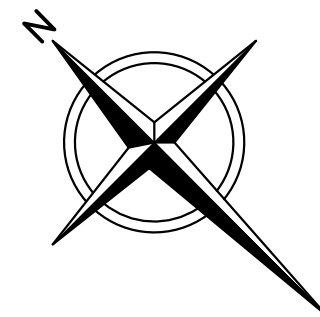


ISSUED FOR BIDDING

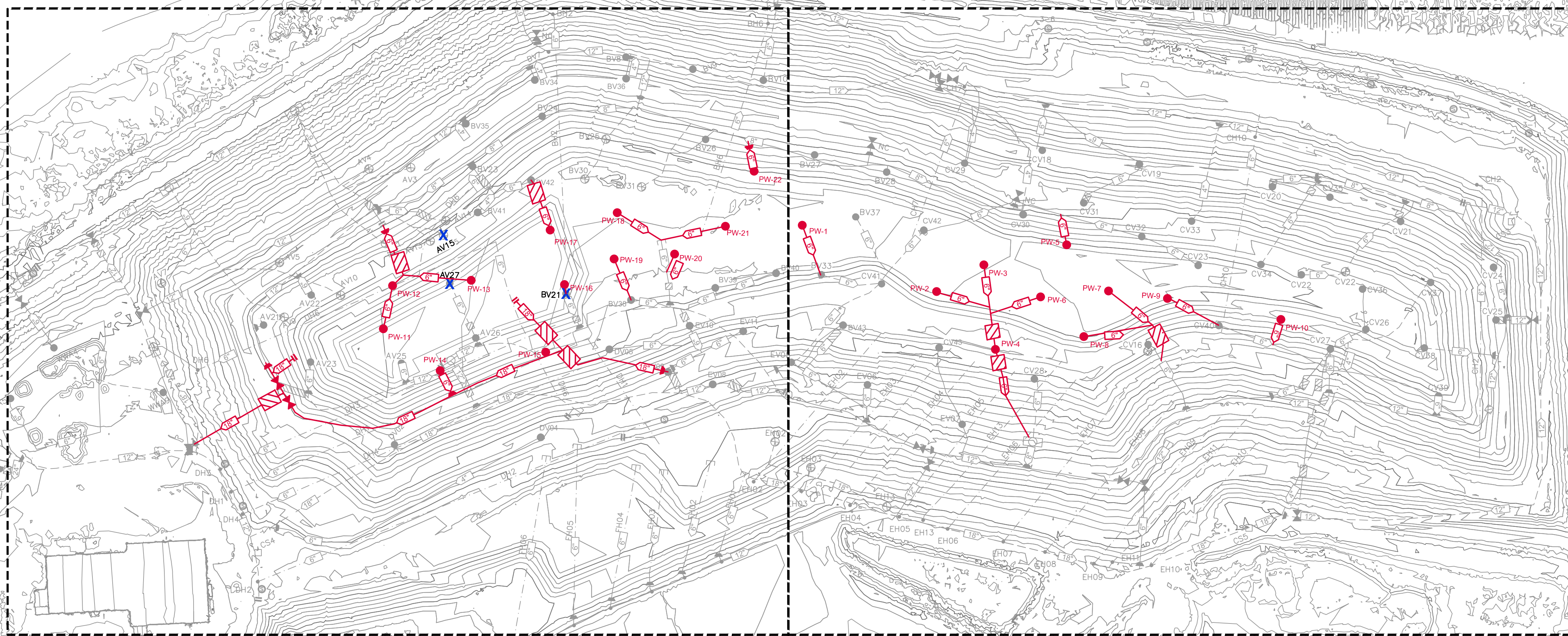


ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE
APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY

PROJECT NC
2024-4028



0 200 400
SCALE IN FEET



SEE SHEET 4 FOR
ENLARGED PLAN
VIEW OF PHASE II
IMPROVEMENTS IN
THIS AREA

SEE SHEET 5 FOR
ENLARGED PLAN
VIEW OF PHASE I
IMPROVEMENTS IN
THIS AREA

LEGEND:

	MODULE BOUNDARY		EXISTING VALVE
	EXISTING INDEX CONTOUR		EXISTING LFG WELL AND COLLECTOR CONTROL MANIFOLD
	EXISTING INTERMEDIATE CONTOUR		EXISTING SUMP
	EXISTING LANDFILL GAS HEADER, ABOVE GRADE		EXISTING REDUCER
	EXISTING LANDFILL GAS HEADER, BELOW GRADE		EXISTING BLIND FLANGE
	EXISTING HORIZONTAL COLLECTOR		EXISTING CONDENSATE DRAIN LINE, ABOVE GRADE
	EXISTING HORIZONTAL COLLECTOR LATERAL CONNECTION		EXISTING NORMALLY OPEN VALVE
	EXISTING VERTICAL WELL, REMOTE WELLHEAD		EXISTING NORMALLY CLOSED VALVE
	EXISTING VERTICAL WELL, ABOVE GRADE		EXISTING CAP
	EXISTING LEACHATE SUMP		EXISTING ROAD CROSSING
	EXISTING CHECK VALVE		PROPOSED LFG VERTICAL WELL

	PROPOSED REDUCER
	PROPOSED ROAD CROSSING
	PROPOSED LANDFILL GAS PIPE, ABOVE GRADE
	PROPOSED LANDFILL GAS PIPE, BELOW GRADE
	EXISTING WELL TO BE ABANDONED
	PROPOSED VALVE
	PROPOSED BLIND FLANGE

EXISTING VERTICAL WELLS PROPOSED FOR ABOVE GRADE ABANDONMENT IN PHASE II PER DETAIL 1/DS4		
AV15	AV27	BV21

ISSUED FOR BIDDING

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	05/20/2025	DATE OF ISSUE				
		DESIGNED BY	CME/CDH	CHECKED BY	CME	APPROVED BY
			CME		PJS	



ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
MONTEREY COUNTY, CALIFORNIA

2025 GCCS IMPROVEMENTS - PHASES I AND II
CONSTRUCTION SITE PLAN

SHEET NO.

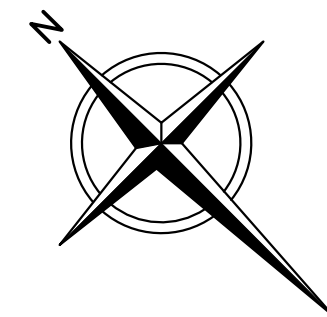
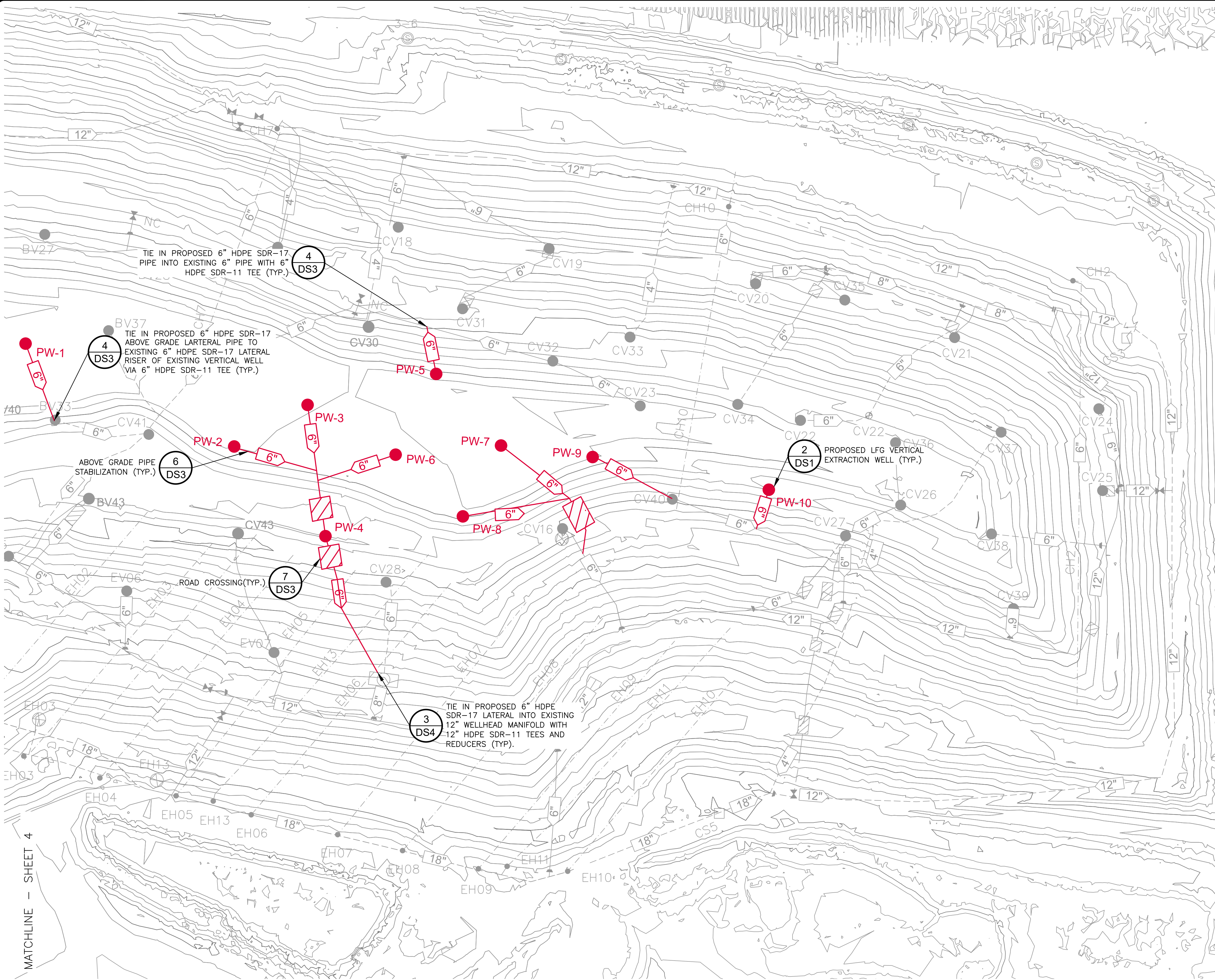
3

PROJECT NO.
2024-4028

1" 1/2" 0"

File: X:\PROJECTS\MONTEREY REGIONAL\2024-4028-MRWMO-2025 GCCS IMPROVEMENTS_00.dwg Layout: SH14 User: CHELSEAEDVANS May 20, 2025 - 10:40am

MATCHLINE - SHEET 4



0 100 200
SCALE IN FEET

LEGEND:

- MODULE BOUNDARY
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING LANDFILL GAS HEADER, ABOVE GRADE
- EXISTING LANDFILL GAS HEADER, BELOW GRADE
- EXISTING HORIZONTAL COLLECTOR
- EXISTING HORIZONTAL COLLECTOR LATERAL CONNECTION
- EXISTING VERTICAL WELL, REMOTE WELL HEAD
- EXISTING VERTICAL WELL, ABOVE GRADE
- EXISTING REDUCER
- EXISTING LEACHATE SUMP
- EXISTING VALVE
- EXISTING CHECK VALVE
- EXISTING LFG WELL AND COLLECTOR CONTROL MANIFOLD
- EXISTING WELLHEAD NOT CONNECTED TO HEADER
- EXISTING SUMP
- EXISTING BLIND FLANGE
- EXISTING CONDENSATE DRAIN LINE, ABOVE GRADE
- EXISTING NORMALLY OPEN VALVE
- EXISTING NORMALLY CLOSED VALVE
- EXISTING CAP
- EXISTING ROAD CROSSING
- PROPOSED LFG VERTICAL WELL
- PROPOSED REDUCER
- PROPOSED ROAD CROSSING
- PROPOSED LANDFILL GAS PIPE, ABOVE GRADE
- PROPOSED LANDFILL GAS PIPE, BELOW GRADE

ISSUED FOR BIDDING

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	05/20/2025	DATE OF ISSUE				
		DESIGNED BY	CME/CDH	CHECKED BY	CME	APPROVED BY
			CME		PJS	

This drawing represents intellectual property of Tetra Tech. Any modification to the original by other than Tetra Tech personnel violates its original purpose and as such is rendered void. Tetra Tech will not be held liable for any changes made to this document without express written consent of the originator.



TETRA TECH

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
MONTEREY COUNTY, CALIFORNIA

2025 GCCS IMPROVEMENTS - PHASES I AND II
CONSTRUCTION SITE PLAN- PHASE I

SHEET NO.

4

PROJECT NO.
2024-4028

1" 1/2" 0"

File: X:\PROJECTS\MONTEREY REGIONAL\2024-4028-MRWMO-2025 GCCS IMPROVEMENTS_00.dwg Layout: SH15 User: CHELSEA EVANS May 20, 2025 - 1:33pm

This drawing represents intellectual property of Tetra Tech. Any modification to the original by other than Tetra Tech personnel violates its original purpose and as such is rendered void. Tetra Tech will not be held liable for any changes made to this document without express written consent of the originator.

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
DATE OF ISSUE	05/20/2025	DRAWN BY CME/CDH	DESIGNED BY CME	CHECKED BY CME	APPROVED BY PJS	



TETRA TECH

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
MONTEREY COUNTY, CALIFORNIA

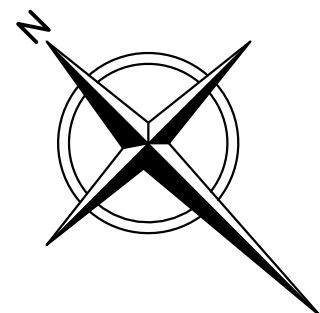
2025 GCCS IMPROVEMENTS - PHASES I AND II
CONSTRUCTION SITE PLAN- PHASE II

SHEET NO.

5

PROJECT NO.
2024-4028

ISSUED FOR BIDDING



0 100 200
SCALE IN FEET

LEGEND:

- MODULE BOUNDARY
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING LANDFILL GAS HEADER, ABOVE GRADE
- EXISTING LANDFILL GAS HEADER, BELOW GRADE
- EXISTING HORIZONTAL COLLECTOR
- EXISTING HORIZONTAL COLLECTOR LATERAL CONNECTION
- EXISTING VERTICAL WELL, REMOTE WELL HEAD
- EXISTING VERTICAL WELL, ABOVE GRADE
- EXISTING REDUCER
- EXISTING LEACHATE SUMP
- EXISTING VALVE
- EXISTING CHECK VALVE
- EXISTING LFG WELL AND COLLECTOR CONTROL MANIFOLD
- EXISTING WELLHEAD NOT CONNECTED TO HEADER
- EXISTING SUMP
- EXISTING BLIND FLANGE
- EXISTING CONDENSATE DRAIN LINE, ABOVE GRADE
- EXISTING NORMALLY OPEN VALVE
- EXISTING NORMALLY CLOSED VALVE
- EXISTING CAP
- EXISTING ROAD CROSSING
- PROPOSED LFG VERTICAL WELL
- PROPOSED REDUCER
- PROPOSED ROAD CROSSING
- PROPOSED LANDFILL GAS PIPE, ABOVE GRADE
- PROPOSED LANDFILL GAS PIPE, BELOW GRADE
- EXISTING WELL TO BE ABANDONED
- PROPOSED VALVE
- PROPOSED BLIND FLANGE

MATCHLINE - SHEET 5

CLIENT
MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

PROJECT
2025 GCCS Improvements

JOB NO.
197-2024-4028

SUBJECT
LFG Extraction Well Schedule

BY

DATE

CHECKED

DATE

Well ID	Stake ID	Stake No.	Northing	Easting	Bottom of Waste ¹	Ground Surface ²	Depth of Waste ³ (D _R) ⁴	Well Depth (D _B) ¹	Perf. Length (D _P)	Solid Length ⁵ (D _S)	Stone Length	Notes
					ft. msl	ft. msl	ft.	ft.	ft.	ft.	ft.	
Well Schedule												
PW-1			2,153,355	5,752,908	30	174	144	100	63	35	70	
PW-2			2,152,930	5,753,052	30	193	163	100	63	35	70	
PW-3			2,152,886	5,753,209	30	217	187	100	63	35	70	
PW-4			2,152,683	5,753,054	30	160	130	100	63	35	70	
PW-5			2,152,753	5,753,427	30	183	153	100	63	35	70	
PW-6			2,152,698	5,753,261	30	200	170	100	63	35	70	
PW-7			2,152,567	5,753,418	30	211	181	100	63	35	70	
PW-8			2,152,491	5,753,245	30	192	162	100	63	35	70	
PW-9			2,152,426	5,753,527	30	187	157	100	63	35	70	
PW-10			2,152,146	5,753,656	30	190	160	100	63	35	70	
PW-11			2,154,023	5,751,800	30	190	160	100	63	35	70	
PW-12			2,154,068	5,751,932	30	174	144	100	63	35	70	
PW-13			2,153,940	5,752,090	30	190	160	100	63	35	70	
PW-14			2,153,814	5,751,832	30	180	150	100	63	35	70	
PW-15			2,153,630	5,752,095	30	183	153	100	63	35	70	
PW-16			2,153,733	5,752,278	30	160	130	100	63	35	70	
PW-17			2,153,879	5,752,363	30	162	132	100	63	35	70	
PW-18			2,153,774	5,752,542	30	178	148	100	63	35	70	
PW-19			2,153,682	5,752,438	30	179	149	100	63	35	70	
PW-20			2,153,565	5,752,576	30	163	133	100	63	35	70	
PW-21			2,153,516	5,752,743	30	180	150	100	63	35	70	
PW-22			2,153,572	5,752,921	30	150	120	100	63	35	70	
Proposed: 22 New Wells								2,200	1,386	770	1,540	

NOTE:

Tetra Tech QA/QC Reviewer Acknowledgement:

Date

Tetra Tech Project Manager Acknowledgement:

Date

Tetra Tech Design Engineer Acknowledgement:

Date

Monterey Regional Waste Management District Acknowledgement:

Date

Field CQA Monitor

Date

Surveyor Acknowledgement:

Date

Driller Acknowledgement:

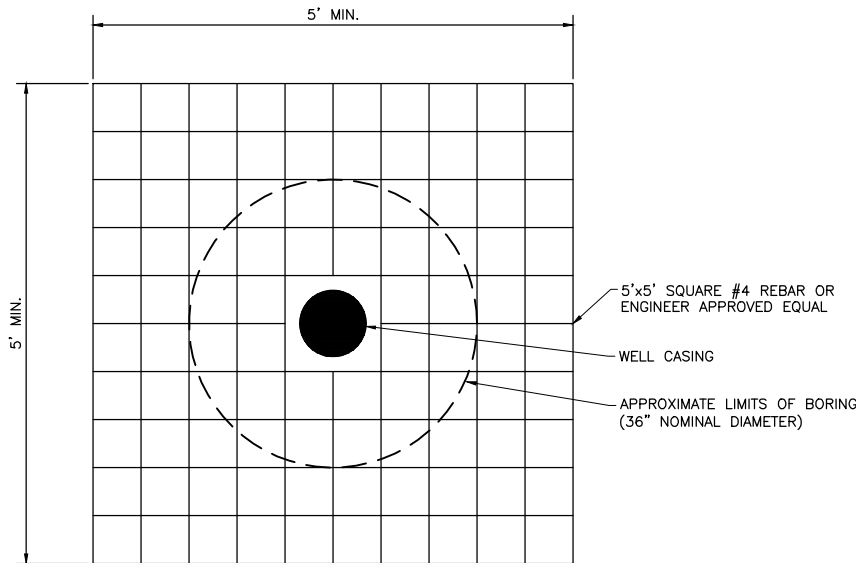
Date

Under no circumstance shall drilling activities begin without providing the above signatures. Any changes to well locations or depths shall require these signatures be obtained again.

- NOTES:
- BASE ELEVATION ESTIMATED BASED ON HIGHEST BASE GRADE ELEVATION (40 FT MSL FOR LOCATIONS IN MODULE 3, PHASE II OR 30 FT MSL FOR ALL OTHER LOCATIONS) IN SUBGRADE PREPARATION PLANS PREPARED BY EMCON ASSOCIATES, PROVIDED BY MONTEREY OR THE HIGHEST LINER ELEVATION WITHIN 50FT OF THE WELL LOCATION PER PDF RECORD DRAWINGS FOR MODULES 3, 4, AND 5 PROVIDED BY MONTEREY (WHICHEVER IS HIGHER).
 - GROUND SURFACE ELEVATIONS TO BE PROVIDED BY SURVEYOR AFTER COMPLETION OF THE PRE CONSTRUCTION SURVEY.
 - DEPTH OF WASTE IS ASSUMED EQUAL TO THE MATHEMATICAL DIFFERENCE BETWEEN GROUND SURFACE AT TIME OF SURVEY AND CALCULATED LANDFILL BASE ELEVATION. SEE NOTES 1 AND 2.
 - THE WELL DEPTH IS CALCULATED AS THE WASTE DEPTH MINUS 15 FT PER THE TETRA TECH STANDARD OPERATING PROCEDURE FOR TYPICAL LFG WELL COMPLETION. MAXIMUM DEPTH IS 100 FT.
 - ALL WELLS TO HAVE 5 FEET OF STICKUP, WHICH IS NOT INCLUDED IN THE SOLID LENGTH (D_S) LISTED IN THE TABLE ABOVE. SOLID PIPE LENGTH IS 35 FEET BELOW THE GROUND SURFACE.
 - SHOULD ANY PROPOSED WELL LOCATION BE MOVED THE RELOCATION MUST BE SURVEYED. THE NEW LOCATION MUST BE APPROVED BY THE MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT PROJECT MANAGER AND THE ENGINEER AND A REVISED WELL SCHEDULE MUST BE SIGNED BY ALL PARTIES INVOLVED PRIOR TO DRILLING THE RELOCATED WELL.
 - THIS PROJECT REQUIRES DRILLING OF LANDFILL GAS EXTRACTION WELLS IN A LANDFILL WHICH CONTAINS NON-HOMOGENOUS SOIL AND SOLID WASTE MATERIALS. AS SUCH, DRILLING PROGRESS (RATES) IN LANDFILLS CAN VARY GREATLY BASED ON THE MATERIALS ENCOUNTERED DURING DRILLING. VARIATIONS IN DRILLING RATES WILL NOT BE CONSIDERED A CHANGED CONDITION PER THE CONTRACT DOCUMENTS.
 - CONTRACTOR SHALL GET AUTHORIZATION FROM OWNER AND ENGINEER PRIOR TO DRILLING.
 - CONTRACTOR TO PROVIDE SURVEYING SERVICES FOR AS-BUILT FOR POST CONSTRUCTION RECORDS.



- NOTES:
- D_R = DEPTH OF REFUSE
D_B = DEPTH OF BORING
D_S = DEPTH OF SOLID PIPE (BELOW GRADE) – 35 FEET MINIMUM
D_P = LENGTH OF PERFORATED PIPE
 - 1”–3” NON-CARBONATE GRAVEL WITH MINIMAL FINES.
 - WELL DRILLING WILL NOT COMMENCE UNTIL BOTTOM LINER ELEVATIONS ARE IDENTIFIED AND VERIFIED BY PROJECT SURVEYOR, DESIGN ENGINEER, AND CQA REPRESENTATIVE.
 - WELL DRILLING TABLE WILL BE MANAGED BY THE CLIENT OR A DESIGNATED REPRESENTATIVE TO ENSURE ONLY THE VERIFIED WELL DEPTHS ARE PRESENT, AND THAT DRILLER AND CQA REPRESENTATIVE HAVE THE IDENTICAL INFORMATION PRIOR TO DRILLING.
 - BENTONITE TO BE SUFFICIENTLY HYDRATED DURING PLACEMENT.



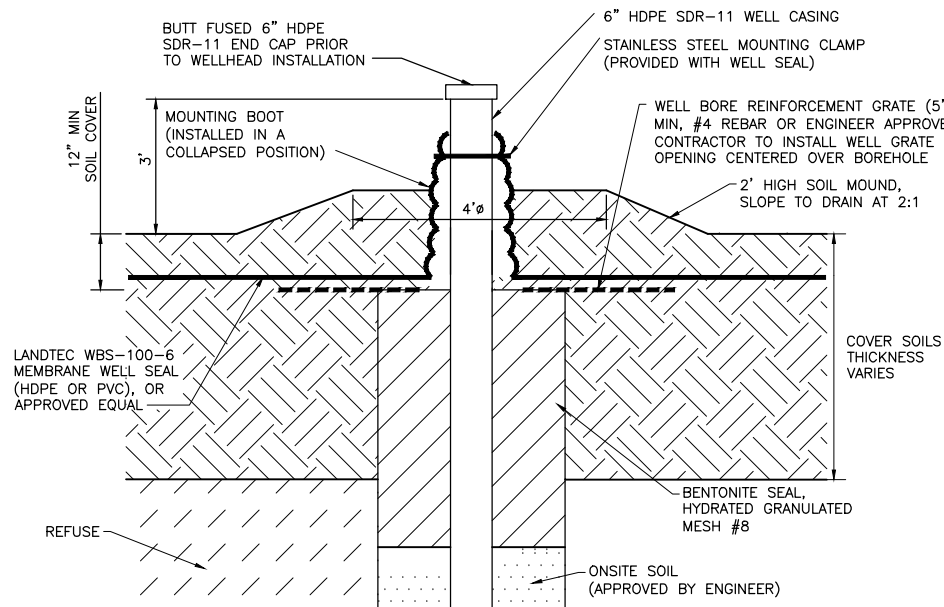
- NOTES:
1. USE A SINGLE PANEL WWR PER GRATE. FIELD FABRICATED PANELS ARE NOT PERMITTED.
 2. WOODEN MATERIALS ARE NOT PERMITTED.
 3. REMOVE THE MINIMUM BARS AS NEEDED TO ACCOMMODATE THE WELL CASING.

WELL BORE REINFORCEMENT GRATE

DETAIL

SCALE: NOT TO SCALE

1
DS2



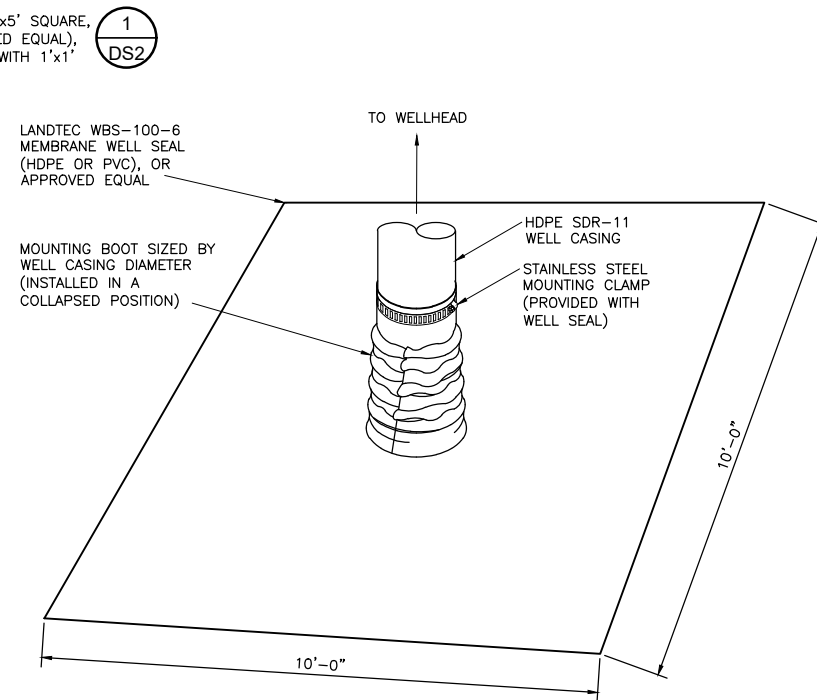
PROFILE VIEW

LFG MEMBRANE WELL SEAL

DETAIL

SCALE: NOT TO SCALE

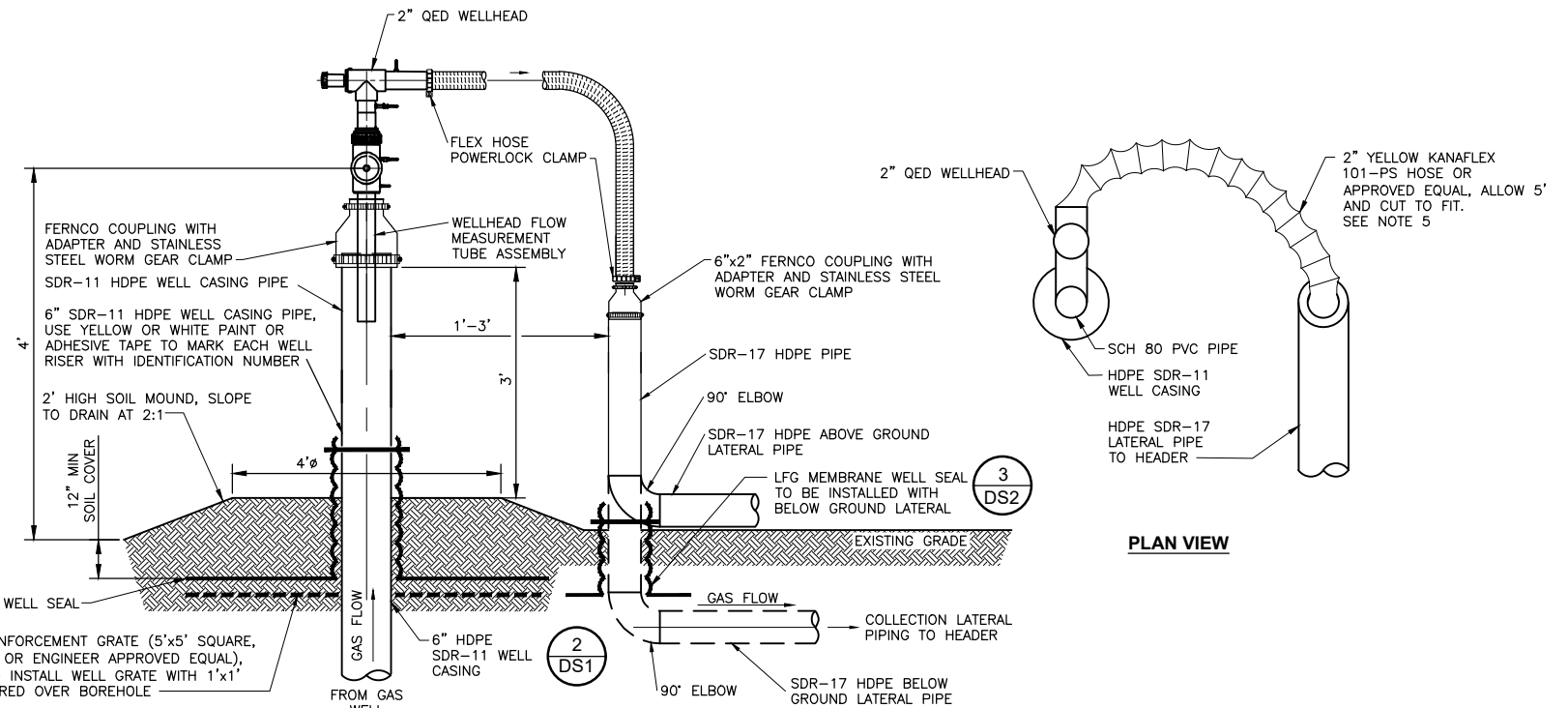
3
DS2



PLAN VIEW

NOTES:

1. LFG WELL SEAL TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



PROFILE VIEW

WELLHEAD ROTATED FOR CLARITY

2-INCH VERTICAL WELLHEAD

DETAIL

SCALE: NOT TO SCALE

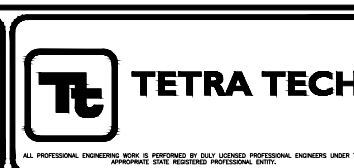
2
DS2

NOTES:

1. WELLHEAD ASSEMBLY SHOWN REPRESENTS A 2" QED WELLHEAD.
2. PROVIDE HIGH VISIBILITY REFLECTIVE TAPE AROUND TOP 1-FOOT OF WELL CASING AND LATERAL PIPE.
3. THIS SPECIFICATION REPRESENTS A VERTICAL WELL HEAD CAPABLE OF CONVEYING APPROXIMATELY 100-110 SCFM OF LFG FROM THE LANDFILL. PROJECTED OR ACTUAL FLOWS ABOVE THIS RANGE WILL REQUIRE A LARGER WELLHEAD AND MODIFIED WELLHEAD DESIGN INCORPORATING A LARGER FERNCO COUPLER, KANAFLEX HOSE, AND A HDPE REDUCER.
4. WELLHEAD SHALL BE INSTALLED 90° FROM LATERAL PIPE. SEE PLAN VIEW DETAIL ABOVE.
5. INSTALL FLEX HOSE WITH EXCESS HOSE TO ALLOW MOVEMENT OF LATERAL BUT CONFIGURE AS NECESSARY TO PREVENT SAG AND WATER ACCUMULATION. ALL INSTALLATIONS SHALL BE INSPECTED BY ENGINEER PRIOR TO APPROVAL.

ISSUED FOR BIDDING

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	05/20/2025	DATE OF ISSUE				
		DRAWN BY CME/CDH				
		DESIGNED BY CME				
		CHECKED BY CME				
		APPROVED BY PJS				



MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
MONTEREY COUNTY, CALIFORNIA

2025 GCCS IMPROVEMENTS - PHASES I AND II
LANDFILL GAS DETAILS

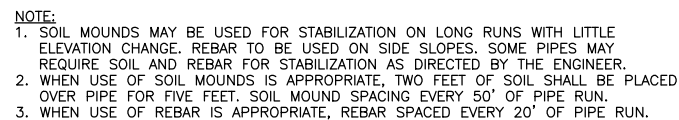
SHEET NO.

DS2

PROJECT NO.
2024-4028

This drawing represents intellectual property of Tetra Tech. Any modification to the original by other than Tetra Tech personnel violates its original purpose and as such is rendered void. Tetra Tech will not be held liable for any changes made to this document without express written consent of the originator.

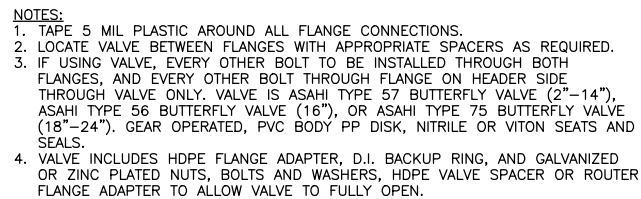
ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.



DETAIL

SCALE: NOT TO SCALE

1
DS3



DETAIL

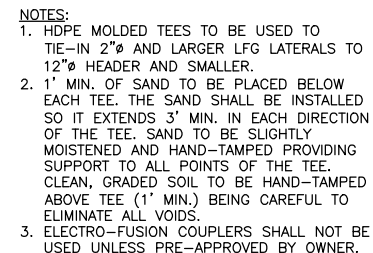
SCALE: NOT TO SCALE

2
DS3



SCALE: NOT TO SCALE

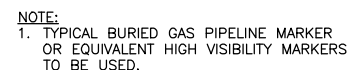
3
DS3



DETAIL

SCALE: NOT TO SCALE

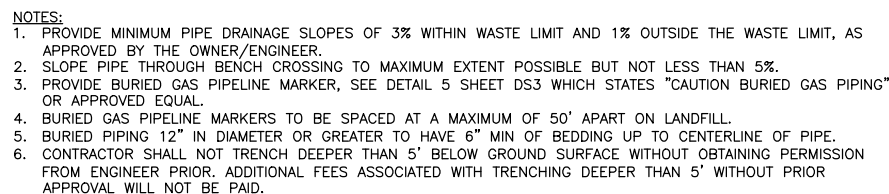
4
DS3



DETAIL

SCALE: NOT TO SCALE

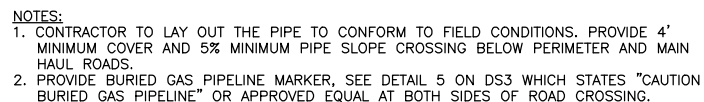
5
DS3



DETAIL

SCALE: NOT TO SCALE

6
DS3



DETAIL

SCALE: NOT TO SCALE

7
DS3

PIPE SCHEDULE	
6" LATERAL PIPE	12" CASING PIPE OR APPROVED EQUAL
8" LATERAL PIPE	12" CASING PIPE OR APPROVED EQUAL
12" LATERAL PIPE OR 2"x6" LATERAL PIPE	18" CASING PIPE OR APPROVED EQUAL
3"x6" LATERAL PIPE	24" CASING PIPE OR APPROVED EQUAL



2025 GCCS IMPROVEMENTS - PHASES I AND II LANDFILL GAS DETAILS

PROJECT NO.

2024-4028

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP B
DATE OF ISSUE		DRAWN BY	CHECKED BY		CME	
05/20/2025		DESIGNED BY	APPROVED BY		PJS	
		CME/CDH				
		CME				



TETRA TECH

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE
APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY



1. FOR VERTICAL WELL ABANDONMENT, EXCAVATE TO A DEPTH OF NO LESS THAN 3 FEET BELOW EXISTING SURFACE. CUT CASING AT THIS ELEVATION, AND CAP. SALVAGE WELLHEAD.
2. IF ABANDONED WELL CASING IS HDPE, USE FUSED ON HDPE CAP. IF ABANDONED WELL CASING IS PVC, USE PVC SCH 40 CAP SECURED WITH SET SCREWS AT 90° AND CEMENT AS NECESSARY.
3. BACKFILL THE EXCAVATION WITH 2 FEET OF BENTONITE MIXTURE HYDRATED DURING PLACEMENT. THE REMAINDER OF THE EXCAVATION IS TO BE BACKFILLED WITH SOIL. THE SOIL SHALL BE COMPACTED IN PLACE USING AN EXCAVATOR BUCKET OR OTHER SUITABLE COMPACTION TECHNIQUE. ABANDONMENT WILL BE TESTED BY OWNER FOR SURFACE EMISSIONS PRIOR TO ACCEPTANCE. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS UNTIL PASSING LESS THAN 100 PPM METHANE EMISSIONS.
4. LATERAL PIPING SHALL BE DECOMMISSIONED WITH A CAP. IF ABANDONED PIPE IS HDPE, USE FUSED ON HDPE CAP. IF ABANDONED PIPE IS PVC, USE PVC SCH 40 CAP SECURED WITH SET SCREWS AT 90° AND CEMENT AS NECESSARY.
5. FOR DECOMMISSIONING REMOTE WELLHEADS, CUT AND CAP VACUUM LATERAL AT BOTH ENDS OF THE WELLHEAD AND SALVAGE WELLHEAD.
6. FOR ABANDONMENT OF STEEL CASINGS, CUT BELOW GRADE WITH NON-SPARKING TOOL. BACKFILL WELL CASING WITH BENTONITE SLURRY TO TOP OF CASING AND INSTALL 6" PVC CAP WITH 3 LAG SCREWS AT 90° ANGLES.

SCALE: NOT TO SCALE

1

DS4



1. CONTRACTOR TO BED WITH CLEAN SOILS OR SAND TO PROVIDE APPROPRIATE SLOPE.
2. CONTRACTOR TO CHECK DRAINAGE SLOPE OF ALL WELLS AND PIPING BEING CONNECTED TO CONNECTION MANIFOLD TO ASSURE DRAINAGE IS MAINTAINED.

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE



1. ANY WASTE ENCOUNTERED DURING EXCAVATION SHALL BE BROUGHT TO THE ACTIVE FACE FOR DISPOSAL.
2. FOR DECOMMISSIONED REMOTE WELLHEADS, THE VACUUM LATERAL SHALL BE CUT AND CAPPED AT BOTH ENDS OF THE WELLHEAD. WELLHEAD SHALL BE SALVAGED.
3. IF THE WELL WAS IN THE AREA OF THE FINAL CAP, THEN THE WELL WAS DECOMMISSIONED ABOVE THE LINER MATERIAL.

DETAIL

SCALE: NOT TO SCALE

2

DS4

2025 GCCS IMPROVEMENTS - PHASES I AND II LANDFILL GAS DETAILS

SHEET NO.

DS4

PROJECT NO.
2024-4028

[illegible]

TETRA TECH

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE
ARMOURNATH STATE REGISTERED PROFESSIONAL ENTITY