

ORIGINAL PLOT DATE: DATE
 FOR REDUCED PLANS, THE 0 ORIGINAL SCALE IS IN INCHES 3 2 1 0
 Path: N:\CS_PROJECTS\NEXGEN\19190336-Wheatland-Regional-2019-Study\Wheatland-CoverSheet.dwg Layout Name: C01 Plot Date: Nov 04, 2025 at 09:40 am

PROJECT PLANS FOR :

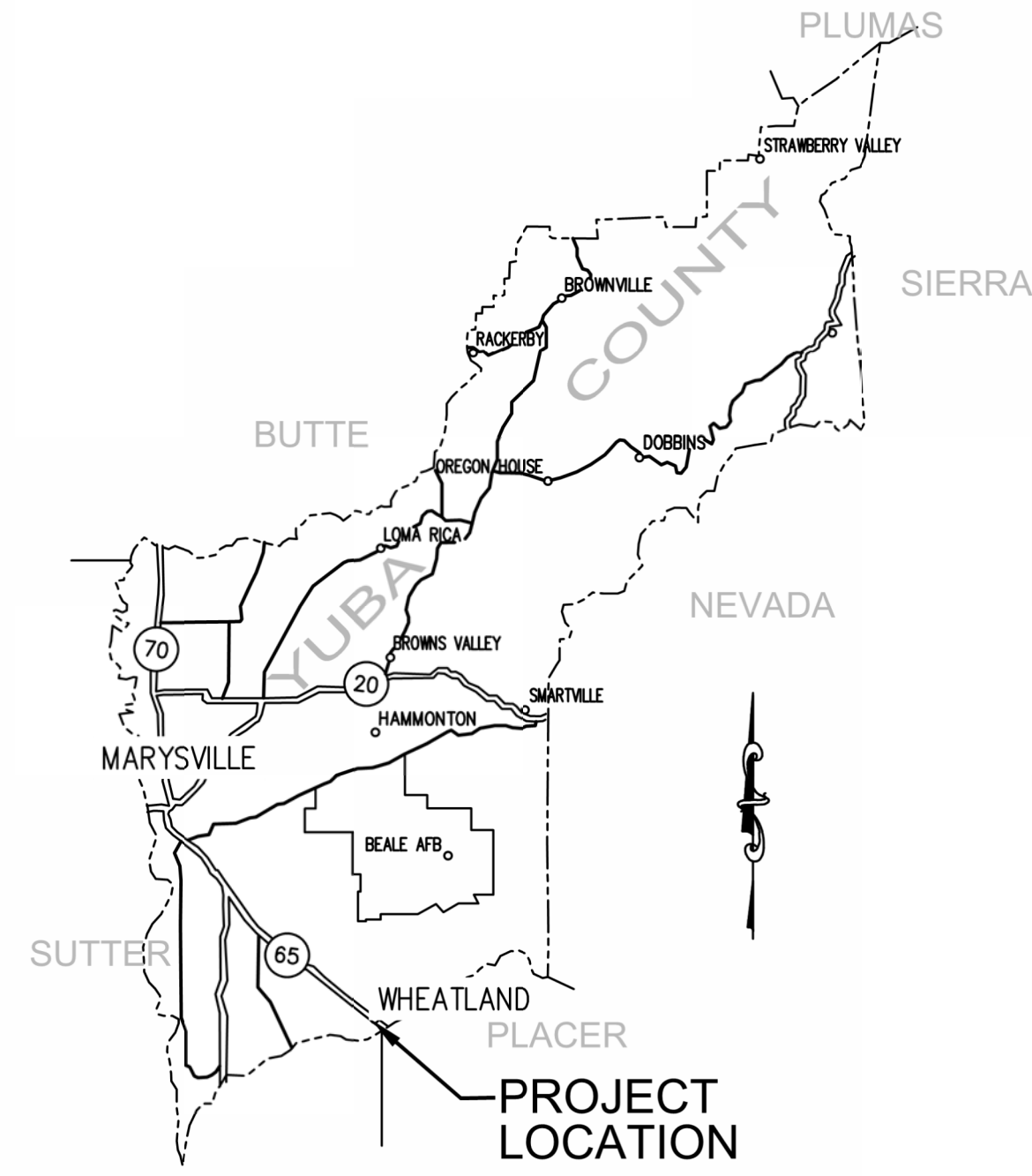
WHEATLAND REGIONAL SEWER PIPELINE PROJECT

VOLUME 5 - PUMP STATION DRAWINGS

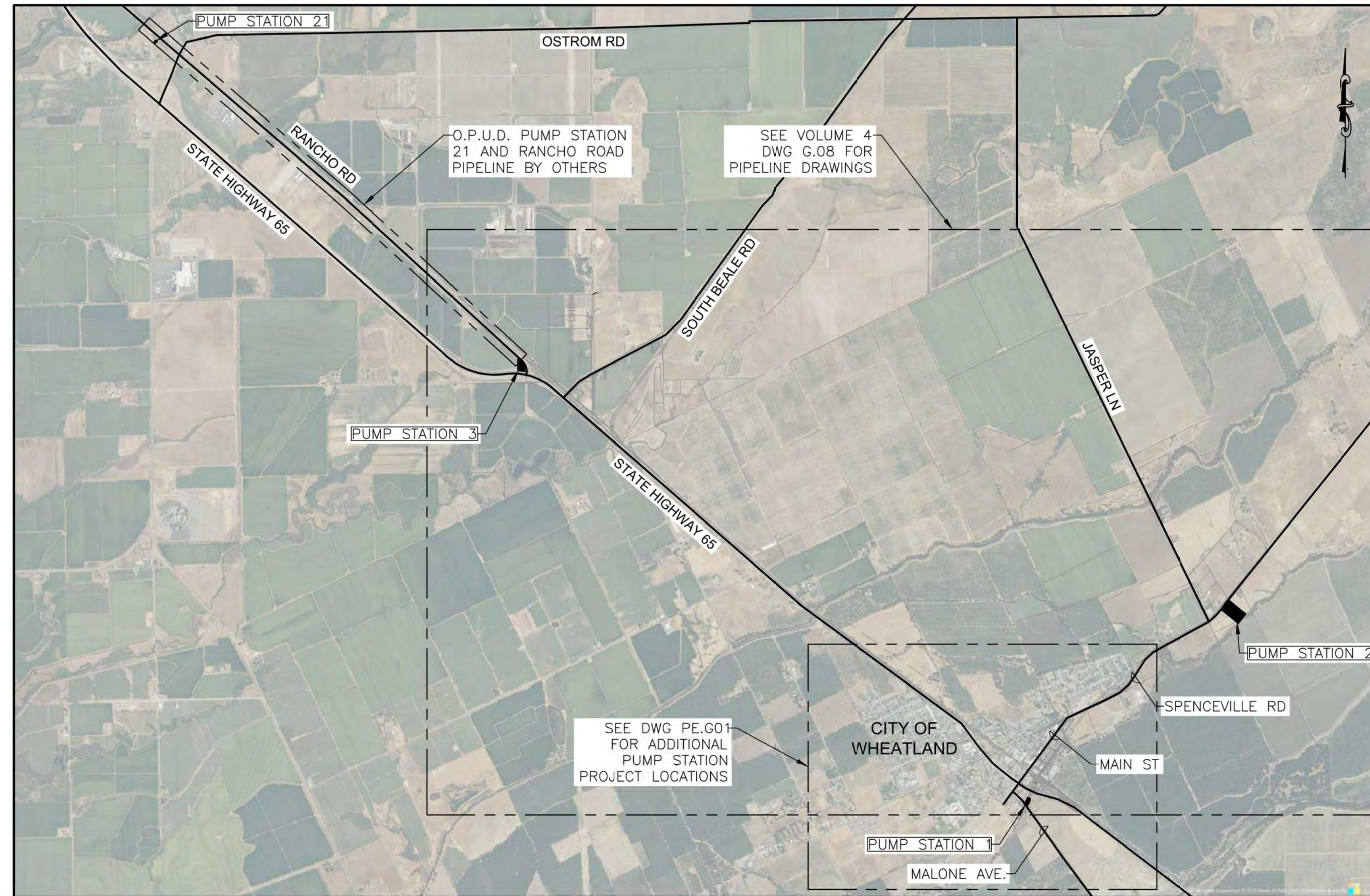
CWSRF PROJECT NO.: C-06-8753-110

BID SET

CITY OF WHEATLAND
YUBA COUNTY, CALIFORNIA



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

NEXGEN UTILITY MANAGEMENT
 4010 LENNANE DRIVE
 SACRAMENTO, CA 95834
 916.564.8000



APPROVED: *Daniel Rich* 09/05/2025
 Daniel Rich, Principal, P.E. DATE

SUBMITTED: *Joseph DiGiorgio* 09/05/2025
 Joseph DiGiorgio, Project Manager, P.E. DATE



REVISIONS	
MARK	DESCRIPTION
1	
2	
3	
4	
5	

WDID # _____

CITY OF WHEATLAND
 APPROVED DATE 11/04/2025

Terrence Y. Hill
 TERENCE Y. HILL
 PUBLIC WORKS DIRECTOR

CITY OF WHEATLAND
 APPROVED DATE 10/31/2025

Dane H. Schilling
 DANE H. SCHILLING
 CITY ENGINEER

WHEATLAND REGIONAL SEWER PIPELINE PROJECT

CITY OF WHEATLAND
PROJECT TITLE, VICINITY MAP AND LOCATION MAP

PROJECT NUMBER
 DATE: 11/03/2025
 DRAWING NUMBER
G01
 SHEET NO.:
 1 OF 250

Funding for this project has been provided in part through an agreement with the State Water Resources Control Board. California's Clean Water Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds. Funding has also been provided in part by the Yuba Water Agency.




The contents of this document do not necessarily reflect the views and policies of the foregoing, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

DRAWING INDEX

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

SHT NO.	DWG NO.	DRAWING TITLE	SHT NO.	DWG NO.	DRAWING TITLE	SHT NO.	DWG NO.	DRAWING TITLE
GENERAL								
1	G01	PROJECT TITLE, VICINITY MAP AND LOCATION MAP	74	P1.M14	CONTROL BUILDING SECTION	147	P2.M41	PUMP STATION NO.2 ODOR CONTROL SYSTEM PLAN, SECTIONS AND DETAILS
2	G02	INDEX OF DRAWINGS	75	P1.M20	PUMP STATION NO.1 STORAGE TANKS PLAN	148	P2.M50	PUMP STATION NO.2 LABORATORY BUILDING PLAN
3	G03	INDEX OF DRAWINGS, DRAWING NUMBERING SYSTEM AND NOTES	76	P1.M21	PUMP STATION NO.1 STORAGE TANKS SECTION 1	149	P2.M51	PUMP STATION NO.2 LABORATORY BUILDING ELEVATIONS
4	G04	ABBREVIATIONS, SYMBOLS, PIPING ABBREVIATIONS AND PIPING SYMBOLS	77	P1.M22	PUMP STATION NO.1 STORAGE TANKS SECTION 2	150	P2.M55	PUMP STATION NO.2 MAINTENANCE BUILDING PLAN
5	G05	PUMP SYSTEM PROFILE AND DESIGN CRITERIA	78	P1.M23	PUMP STATION NO.1 STORAGE TANKS SECTION 3	151	P2.M56	PUMP STATION NO.2 MAINTENANCE BUILDING ELEVATIONS
6	C01	TYPICAL CIVIL DETAILS 1	79	P1.M30	PUMP STATION NO.1 PLAN	152	P2.M60	PUMP STATION NO.2 VACTOR RECEIVING STATION PLAN
7	C02	TYPICAL CIVIL DETAILS 2	80	P1.M31	PUMP STATION NO.1 SECTION	153	P2.M61	PUMP STATION NO.2 VACTOR RECEIVING STATION SECTIONS AND DETAILS
8	C03	TYPICAL CIVIL DETAILS 3	81	P1.M40	PUMP STATION NO.1 ODOR CONTROL SYSTEM PLAN AND SECTIONS	154	P2.M70	PUMP STATION NO.2 EQUALIZATION TANKS PLAN
9	C04	TYPICAL CIVIL DETAILS 4	82	P1.M41	PUMP STATION NO.1 CHEMICAL STORAGE TANK PLAN AND SECTION	155	P2.M71	PUMP STATION NO.2 EQUALIZATION TANKS PLAN
10	C05	TYPICAL CIVIL DETAILS 5	83	P1.E01	PUMP STATION NO.1 MSB-0100 SINGLE LINE DIAGRAMS AND CALCULATIONS	156	P2.M72	PUMP STATION NO.2 EQUALIZATION TANKS SECTIONS
11	C06	TYPICAL CIVIL DETAILS 6	84	P1.E02	PUMP STATION NO.1 MCC-0100 SINGLE LINE DIAGRAMS	157	P2.M73	PUMP STATION NO.2 EQUALIZATION TANKS SECTIONS
12	M01	TYPICAL MECHANICAL DETAILS 1	85	P1.E03	PUMP STATION NO.1 MSB-0100 & MCC-0100 ELEVATIONS	158	P2.M74	PUMP STATION NO.2 EQUALIZATION TANKS SECTIONS
13	M02	TYPICAL MECHANICAL DETAILS 2	86	P1.E04	PUMP STATION NO.1 CONDUIT AND CABLE SCHEDULE	159	P2.M90	PUMP STATION NO.2 ELECTRICAL BUILDING PLAN
14	M03	TYPICAL MECHANICAL DETAILS 3	87	P1.E10	PUMP STATION NO.1 POWER PLAN	160	P2.M91	PUMP STATION NO.2 ELECTRICAL BUILDING ELEVATIONS
15	M04	TYPICAL MECHANICAL DETAILS 4	88	P1.E11	PUMP STATION NO.1 UTILITY PLAN	161	P2.M92	PUMP STATION NO.2 ELECTRICAL BUILDING ELEVATIONS
16	M05	TYPICAL MECHANICAL DETAILS 5	89	P1.E12	PUMP STATION NO.1 CONTROL BUILDING ELECTRICAL PLAN	162	P2.E01	PUMP STATION NO.2 MSB/SWB-0200 SINGLE LINE DIAGRAMS AND CALCULATIONS
17	S01	GENERAL STRUCTURAL NOTES 1	90	P1.E13	PUMP STATION NO.1 CONTROL BUILDING GROUNDING PLAN	163	P2.E02	PUMP STATION NO.2 MCC-0200 SINGLE LINE DIAGRAMS
18	S02	GENERAL STRUCTURAL NOTES 2	91	P1.E14	PUMP STATION NO.1 CONTROL BUILDING LIGHTING PLAN	164	P2.E03	PUMP STATION NO.2 MSB/SWB-0200 ELEVATIONS
19	S03	TYPICAL STRUCTURAL DETAILS 1	92	P1.E30	PUMP STATION NO.1 ELECTRICAL PLAN	165	P2.E04	PUMP STATION NO.2 MCC-0200 ELEVATIONS
20	S04	TYPICAL STRUCTURAL DETAILS 2	93	P1.E40	PUMP STATION NO.1 ODOR CONTROL ELECTRICAL PLAN	166	P2.E05	PUMP STATION NO.2 PANEL SCHEDULE
21	S05	TYPICAL STRUCTURAL DETAILS 3	94	P1.E41	PUMP STATION NO.1 CHEMICAL SYSTEM ELECTRICAL PLAN	167	P2.E10	PUMP STATION NO.2 OVERALL ELECTRICAL PLAN 1
22	S06	TYPICAL STRUCTURAL DETAILS 4	95	P1.I10	PUMP STATION NO.1 INLET P&ID	168	P2.E11	PUMP STATION NO.2 OVERALL ELECTRICAL PLAN 2
23	S07	TYPICAL STRUCTURAL DETAILS 5	96	P1.I11	PUMP STATION NO.1 P&ID 1	169	P2.E12	PUMP STATION NO.2 OVERALL LIGHTING PLAN 1
24	S08	CALTRANS STANDARD PLAN B0-3	97	P1.I12	PUMP STATION NO.1 P&ID 2	170	P2.E13	PUMP STATION NO.2 OVERALL LIGHTING PLAN 2
25	S09	CALTRANS STANDARD PLAN B3-3A	98	P1.I13	PUMP STATION NO.1 P&ID 3	171	P2.E15	PUMP STATION NO.2 CONDUIT AND CABLE SCHEDULE 1
26	S10	CALTRANS STANDARD PLAN B3-6	99	P1.I14	PUMP STATION NO.1 MISCELLANEOUS P&ID	172	P2.E16	PUMP STATION NO.2 CONDUIT AND CABLE SCHEDULE 2
27	S11	CALTRANS STANDARD PLAN B11-52	<u>PUMP STATION NO.2</u>			173	P2.E20	PUMP STATION NO.2 INFLUENT SPLITTER AND STORAGE TANKS ELECTRICAL PLAN
28	S12	CALTRANS STANDARD PLAN B11-80	100	P2.G01	PUMP STATION NO.2 PROCESS FLOW DIAGRAM	174	P2.E30	PUMP STATION NO.2 ELECTRICAL PLAN
29	S13	CALTRANS STANDARD PLAN B11-85	101	P2.G02	PUMP STATION NO.2 STAGING AREA	175	P2.E40	PUMP STATION NO.2 BIO-FILTER SYSTEM ELECTRICAL PLAN
30	E01	ELECTRICAL SYMBOLS	102	P2.C01	PUMP STATION NO.2 PAVING, GRADING AND DRAINAGE PLAN	176	P2.E50	PUMP STATION NO.2 LABORATORY ELECTRICAL PLAN
31	E02	ELECTRICAL ABBREVIATIONS AND GENERAL NOTES	103	P2.C02	PUMP STATION NO.2 PAVING, GRADING AND DRAINAGE PLAN	177	P2.E51	PUMP STATION NO.2 LABORATORY LIGHTING PLAN
32	E03	EXAMPLE PLC MODULE LOOP DIAGRAMS 1	104	P2.C03	PUMP STATION NO.2 PAVING, GRADING AND DRAINAGE PLAN	178	P2.E55	PUMP STATION NO.2 MAINTENANCE BUILDING ELECTRICAL PLAN
33	E04	EXAMPLE PLC MODULE LOOP DIAGRAMS 2	105	P2.C04	PUMP STATION NO.2 PIPING PLAN	179	P2.E56	PUMP STATION NO.2 MAINTENANCE BUILDING GROUNDING PLAN
34	E05	EXAMPLE INTERCONNECT DIAGRAM	106	P2.C05	PUMP STATION NO.2 PIPING PLAN	180	P2.E57	PUMP STATION NO.2 MAINTENANCE BUILDING LIGHTING PLAN
35	E06	TYPICAL CONTROL PANEL ELEMENTARY DIAGRAM	107	P2.C06	PUMP STATION NO.2 PIPING PLAN	181	P2.E58	PUMP STATION NO.2 MAINTENANCE BUILDING NETWORK PLAN
36	E07	TYPICAL CONTROL PANEL ELEVATION	108	P2.C07	PUMP STATION NO.2 18IN SEWER PLAN AND PROFILE	182	P2.E70	PUMP STATION NO.2 EQUALIZATION TANK ELECTRICAL PLAN 1
37	E08	LIGHTING FIXTURE SCHEDULE AND INSTALLATION DETAILS	109	P2.C08	PUMP STATION NO.2 18IN FM PLAN AND PROFILE STATIONS 1+00 TO 4+25	183	P2.E71	PUMP STATION NO.2 EQUALIZATION TANK ELECTRICAL PLAN 2
38	E09	VFD ELEMENTARY DIAGRAM	110	P2.C09	PUMP STATION NO.2 18IN FM PLAN AND PROFILE STATIONS 4+25 TO POC	184	P2.E90A	PUMP STATION NO.2 CONTROL BUILDING ELECTRICAL PLAN 1
39	E10	FVNR ELEMENTARY DIAGRAM	111	P2.C10	PUMP STATION NO.2 UNDERGROUND STORM TRENCH RETENTION PLAN	185	P2.E90B	PUMP STATION NO.2 CONTROL BUILDING ELECTRICAL PLAN 2
40	E11	TYPICAL ELEMENTARY DIAGRAM	112	P2.LS01	PUMP STATION NO.2 LANDSCAPE GENERAL NOTES	186	P2.E90C	PUMP STATION NO.2 CONTROL BUILDING ELECTRICAL PLAN 3
41	E12	SERVER RACK ELEMENTARY DIAGRAM AND ELEVATION	113	P2.LS02	PUMP STATION NO.2 LANDSCAPE IRRIGATION PLAN	187	P2.E91	PUMP STATION NO.2 CONTROL BUILDING GROUNDING PLAN
42	E20	TYPICAL ELECTRICAL DETAILS 1	114	P2.LS03	PUMP STATION NO.2 LANDSCAPE IRRIGATION PLAN	188	P2.E92	PUMP STATION NO.2 CONTROL BUILDING LIGHTING PLAN
43	E21	TYPICAL ELECTRICAL DETAILS 2	115	P2.LS04	PUMP STATION NO.2 LANDSCAPE IRRIGATION CALCULATIONS SCHEDULE AND NOTES	189	P2.I20	PUMP STATION NO.2 INLET P&ID
44	E22	TYPICAL ELECTRICAL DETAILS 3	116	P2.LS05	PUMP STATION NO.2 LANDSCAPE IRRIGATION DETAILS	190	P2.I21	PUMP STATION NO.2 P&ID 1
45	E23	TYPICAL ELECTRICAL DETAILS 4	117	P2.LS06	PUMP STATION NO.2 LANDSCAPE IRRIGATION DETAILS	191	P2.I22	PUMP STATION NO.2 P&ID 2
46	E24	TYPICAL ELECTRICAL DETAILS 5	118	P2.LS07	PUMP STATION NO.2 LANDSCAPE IRRIGATION DETAILS	192	P2.I23	PUMP STATION NO.2 P&ID 3
47	E25	TYPICAL ELECTRICAL DETAILS 6	119	P2.LS08	PUMP STATION NO.2 LANDSCAPE IRRIGATION PLANTING PLAN	193	P2.I24	PUMP STATION NO.2 STORAGE SYSTEM P&ID
48	E26	TYPICAL ELECTRICAL DETAILS 7	120	P2.LS09	PUMP STATION NO.2 LANDSCAPE IRRIGATION PLANTING PLAN AND NOTES	194	P2.I25	PUMP STATION NO.2 BIO-FILTER 1 P&ID
49	E27	TYPICAL ELECTRICAL DETAILS 8	121	P2.LS10	PUMP STATION NO.2 LANDSCAPE PLANTING NOTES	195	P2.I26	PUMP STATION NO.2 BIO-FILTER 2 P&ID
50	E28	TYPICAL ELECTRICAL DETAILS 9	122	P2.LS11	PUMP STATION NO.2 LANDSCAPE PLANTING DETAILS	196	P2.I27	PUMP STATION NO.2 CHEMICAL FEED SYSTEM P&ID
51	I01	INSTRUMENTATION SYMBOLS AND ABBREVIATIONS	123	P2.S20	PUMP STATION NO.2 INFLUENT SPLITTER STRUCTURAL PLANS	197	P2.I28	PUMP STATION NO.2 HIGH PRESSURE BOOSTER PUMP P&ID
52	I02	NETWORK DIAGRAM 1	124	P2.S21	PUMP STATION NO.2 INFLUENT SPLITTER STRUCTURAL SECTION	198	P2.I29	PUMP STATION NO.2 MISCELLANEOUS P&ID
53	I03	NETWORK DIAGRAM 2	125	P2.S30	PUMP STATION NO.2 STRUCTURAL PLANS 1	<u>PUMP STATION NO.3</u>		
<u>PUMP STATION NO.1</u>								
54	P1.G01	PUMP STATION NO.1 PROCESS FLOW	126	P2.S31	PUMP STATION NO.2 STRUCTURAL PLANS 2	199	P3.G01	PUMP STATION NO.3 PROCESS FLOW DIAGRAM
55	P1.G02	PUMP STATION NO.1 STAGING AREA	127	P2.S32	PUMP STATION NO.2 STRUCTURAL SECTION 1	200	P3.C01	PUMP STATION NO.3 PAVING, GRADING AND DRAINAGE PLAN
56	P1.C01	PUMP STATION NO.1 GRADING AND PAVING PLAN	128	P2.S33	PUMP STATION NO.2 STRUCTURAL SECTION 2	201	P3.C02	PUMP STATION NO.3 PIPING PLAN
57	P1.C02	PUMP STATION NO.1 PIPING PLAN	129	P2.S34	PUMP STATION NO.2 STRUCTURAL SECTION 3	202	P3.LS01	PUMP STATION NO.3 LANDSCAPE IRRIGATION PLAN
58	P1.C03	PUMP STATION NO.1 12 INCH GRAVITY SEWER PROFILE	130	P2.S40	PUMP STATION NO.2 BIO-FILTER SYSTEM STRUCTURAL PLAN	203	P3.LS02	PUMP STATION NO.3 LANDSCAPE IRRIGATION NOTES AND SCHEDULE
59	P1.C04	PUMP STATION NO.1 8 INCH POTABLE WATER PLAN AND PROFILE	131	P2.S60	PUMP STATION NO.2 VACTOR RECEIVING STRUCTURAL PLAN	204	P2.LS03	PUMP STATION NO.3 LANDSCAPE IRRIGATION DETAILS
60	P1.C05	PUMP STATION NO.1 BYPASS PUMPING PLAN	132	P2.S61	PUMP STATION NO.2 VACTOR RECEIVING STRUCTURAL SECTIONS	205	P3.LS04	PUMP STATION NO.3 LANDSCAPE IRRIGATION DETAILS
61	P1.D10	MALONE LIFT STATION DEMOLITION PLAN	133	P2.S70	PUMP STATION NO.2 EQUALIZATION STRUCTURAL PLAN	206	P3.LS05	PUMP STATION NO.3 LANDSCAPE IRRIGATION DETAILS
62	P1.D11	MALONE LIFT STATION DEMOLITION SECTIONS	134	P2.S71	PUMP STATION NO.2 EQUALIZATION STRUCTURAL SECTIONS	207	P3.LS06	PUMP STATION NO.3 LANDSCAPE PLANTING PLAN AND NOTES
63	P1.LS01	PUMP STATION NO. 1 LANDSCAPE IRRIGATION PLAN AND NOTES	135	P2.S72	PUMP STATION NO.2 EQUALIZATION STRUCTURAL PLANS AND SECTION	208	P3.LS07	PUMP STATION NO.3 LANDSCAPE PLANTING DETAILS
64	P1.LS02	PUMP STATION NO. 1 LANDSCAPE IRRIGATION SCHEDULE AND CALCULATIONS	136	P2.M10	PUMP STATION NO.2 INFLUENT MANHOLE PLAN AND SECTION	209	P3.M10	PUMP STATION NO.3 CONTROL BUILDING PLAN
65	P1.LS03	PUMP STATION NO. 1 LANDSCAPE DETAILS	137	P2.M11	PUMP STATION NO.2 CAV VAULT PLAN AND SECTION	210	P3.M11	PUMP STATION NO.3 CONTROL BUILDING DETAILS
66	P1.LS04	PUMP STATION NO. 1 LANDSCAPE DETAILS	138	P2.M20	PUMP STATION NO.2 INFLUENT SPLITTER BOXES AND STORAGE TANKS PLAN	211	P3.M20	PUMP STATION NO.3 CONTROL BUILDING PLAN AND SECTION
67	P1.LS05	PUMP STATION NO. 1 LANDSCAPE DETAILS	139	P2.M21	PUMP STATION NO.2 INFLUENT SPLITTER BOXES PLAN AND SECTIONS	212	P3.M30	PUMP STATION NO.3 PLAN AND SECTION
68	P1.LS06	PUMP STATION NO. 1 LANDSCAPE PLANTING PLAN AND NOTES	140	P2.M22	PUMP STATION NO.2 STORAGE TANKS SECTION AND DETAIL	213	P3.M31	PUMP STATION NO.3 SECTIONS
69	P1.LS07	PUMP STATION NO. 1 LANDSCAPE PLANTING DETAILS	141	P2.M23	PUMP STATION NO.2 STORAGE TANKS SECTION	214	P3.M32	PUMP STATION NO.3 SECTION AND ELEVATIONS
70	P1.M10	PUMP STATION NO.1 CONTROL BUILDING PLAN	142	P2.M30	PUMP STATION NO.2 PLAN	215	P3.M33	PUMP STATION NO.3 ELEVATIONS
71	P1.M11	PUMP STATION NO.1 CONTROL BUILDING ELEVATIONS 1	143	P2.M31	PUMP STATION NO.2 SECTION	216	P3.M90	PUMP STATION NO.3 GENERATOR PLAN AND ELEVATION
72	P1.M12	PUMP STATION NO.1 CONTROL BUILDING ELEVATIONS 2	144	P2.M32	PUMP STATION NO.2 SECTIONS	217	P3.M91	PUMP STATION NO.3 GENERATOR PLAN AND ELEVATION
73	P1.M13	CONTROL BUILDING SECTIONS AND DETAIL	145	P2.M33	PUMP STATION NO.2 BOTTOM PLAN			
			146	P2.M40	PUMP STATION NO.2 BIO-FILTER SYSTEM			

REVISIONS	
MARK	DESCRIPTION
1	
2	
3	
4	
5	



PREPARED UNDER THE DIRECTION OF

DATE: 09/05/2025


DESIGNED BY: A. ORTIZ

DRAWN BY: J. AYALA

REVIEWED BY: J. DIGIORGIO

NEXGEN UTILITY MANAGEMENT

4010 LENNANE DRIVE
SACRAMENTO, CA 95834
916.564.8000



CALIFORNIA

WHEATLAND REGIONAL SEWER PIPELINE PROJECT

CITY OF WHEATLAND

INDEX OF DRAWINGS

PROJECT NUMBER	C-06-8753-110
DATE:	11/03/2025
DRAWING NUMBER	G02
SHEET NO.:	2 OF 250

DRAWING INDEX

SHT DWG NO. NO.	DRAWING TITLE
218 P3.E01	PUMP STATION NO.3 MSB-0300 SINGLE LINE DIAGRAM AND CALCULATIONS
219 P3.E02	PUMP STATION NO.3 MCC-0300 SINGLE LINE DIAGRAM AND CALCULATIONS
220 P3.E03	PUMP STATION NO.3 MSB-0300 AND MCC-0300 ELEVATIONS
221 P3.E04	PUMP STATION NO.3 CONDUIT AND CABLE SCHEDULE
222 P3.E10	PUMP STATION NO.3 POWER PLAN
223 P3.E11	PUMP STATION NO.3 UTILITY PLAN
224 P3.E12	PUMP STATION NO.3 CONTROL BUILDING ELECTRICAL PLAN
225 P3.E13	PUMP STATION NO.3 CONTROL BUILDING GROUNDING PLAN
226 P3.E14	PUMP STATION NO.3 CONTROL BUILDING LIGHTING PLAN
227 P3.E30	PUMP STATION NO.3 BUILDING ELECTRICAL PLAN
228 P3.E31	PUMP STATION NO.3 BUILDING LIGHTING PLAN
229 P3.I30	PUMP STATION NO.3 P&ID 1
230 P3.I31	PUMP STATION NO.3 BOOSTER PUMP P&ID
231 P3.I32	PUMP STATION NO.3 MISCELLANEOUS P&ID

EXISTING LIFT STATIONS

232 PE.G01	PROJECT LOCATION MAP
233 PE.E01	TYPICAL LIFT STATION SERVICE AND MOTOR CONTROL PANEL
234 PE.E10	SUNRISE LIFT STATION ELECTRICAL SITE PLAN, SINGLE LINES AND DETAILS
235 PE.E20	C STREET LIFT STATION ELECTRICAL SITE PLAN, SINGLE LINES AND DETAILS
236 PE.E30	SPRUCE LIFT STATION ELECTRICAL SITE PLAN, SINGLE LINES AND DETAILS
237 PE.E40	REDWOOD LIFT STATION ELECTRICAL SITE PLAN, SINGLE LINES AND DETAILS
238 PE.E50	CALATERRA LIFT STATION ELECTRICAL SITE PLAN, SINGLE LINES AND DETAILS

WELL NO. 7

239 P7.D01	WELL NO.7 GENERATOR DEMOLITION PLAN
240 P7.C01	WELL NO. 7 BOOSTER PUMP STATION SITE PLAN
241 P7.C02	WELL NO. 7 BOOSTER PUMP STATION SECTIONS AND DETAILS
242 P7.C03	WELL NO. 7 BOOSTER PUMP GENERATOR PLAN AND SECTION
243 P7.E01	WELL PUMP STATION NO.7 SINGLE LINE DIAGRAM AND CALCULATION
244 P7.E02	WELL PUMP STATION NO.7 UTILITY PLAN
245 P7.E03	WELL PUMP STATION NO.7 SINGLE LINE DIAGRAM AND CALCULATION

PUMP STATION NO. 21

246 PS21.E21	PUMP STATION NO.21 ELECTRICAL PLAN
--------------	------------------------------------

EROSION AND SEDIMENT CONTROL

247 EC01	EROSION CONTROL PUMP STATION NO. 1
248 EC02	EROSION CONTROL PUMP STATION NO. 2
249 EC03	EROSION CONTROL PUMP STATION NO. 3
250 EC04	EROSION CONTROL DETAILS

DRAWING NUMBERING SYSTEM

- THE DRAWINGS ARE PRIMARILY DIVIDED WITH NO PREFIX FOR FOR TYPICAL DETAILS AND GLOBAL INFORMATION SHEETS, AND THEN WITH PX WHERE "X" IS THE PUMP STATION LOCATION.
- THE DRAWINGS ARE SUBDIVIDED INTO BROAD TRADE SECTIONS AND HAVE THE FOLLOWING PREFIXES TO THEIR NUMBERS ACCORDING TO CATEGORY AND ARE BOUND IN THE FOLLOWING ORDER.
 - G GENERAL
 - C CIVIL
 - D DEMOLITION
 - LS LANDSCAPE
 - S STRUCTURAL
 - M MECHANICAL
 - E ELECTRICAL
 - I INSTRUMENTATION
- THE DRAWINGS ARE FURTHER SUBDIVIDED BY TWO DIGIT NUMBERS WHERE THE FIRST DIGIT INDICATED THE AREA OR STRUCTURE AND IS APPLICABLE ACROSS THE VARIOUS ABOVE MENTIONED TRADES.

VOLUME 4 NOTES REFERENCES

- SEE VOLUME 4, DRAWINGS G.03 - G.06 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.**
- SEE VOLUME 4, DRAWING G.09 FOR ADDITIONAL INFORMATION REGARDING STAGING AND STORAGE AREAS AT PUMP STATIONS 1 AND 3.**
- SEE VOLUME 4, DRAWINGS G.10 AND G.12 FOR SURVEY HORIZONTAL CONTROL AND BASIS OF BEARINGS.**

GENERAL NOTES

- WORK SHALL BE IN CONFORMANCE WITH THE ENVIRONMENTAL REQUIREMENTS AS OUTLINED IN THE PROJECTS ENVIRONMENTAL DOCUMENTS APPENDED TO THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, RIGHTS OF ENTRY, APPROVALS AND LICENSES PRIOR TO BEGINNING CONSTRUCTION.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH {CAL-OSHA) WHEN TRENCH EXCAVATIONS EXCEED 5'-0". CONTACT CAL-OSHA FOR FURTHER INFORMATION (HEALTH AND SAFETY CODE 17922.5).
- ALL WORKMANSHIP, MATERIALS, AND CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS, THE LATEST EDITION OF THE CITY OF WHEATLAND IMPROVEMENT STANDARDS, THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE YUBA COUNTY IMPROVEMENT STANDARDS, ASTM STANDARDS, AND AWWA STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THE PROJECT.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY IN WRITING, RESIDENTS AND BUSINESS ESTABLISHMENTS ALONG THE ROUTE OF THE WORK AT LEAST TEN (10) WORKING DAYS PRIOR TO ROAD CLOSURES AND AT LEAST THREE (3) WORKING DAYS PRIOR TO DISRUPTION OF INGRESS AND EGRESS. THE NOTICE PROVIDED TO THE RESIDENCES OR BUSINESSES SHALL INCLUDE, AT A MINIMUM, SCHEDULE OF LANE OR ROAD CLOSURES AND/OR PARKING RESTRICTIONS WITH ESTIMATED DURATION, ALTERNATE ROUTE OR DETOUR, AND NAME AND TWENTY--FOUR (24) HOUR PHONE NUMBER OF A PRIMARY CONTACT AND BACK-UP CONTACT EMPLOYED BY THE CONTRACTOR.
- THE CONTRACTOR MUST OBTAIN WRITTEN PERMISSION FROM THE OWNER OF ANY PRIVATELY OWNED PROPERTY PRIOR TO BEGINNING ANY WORK, STORING MATERIALS OR OTHERWISE CONDUCTING ANY OPERATIONS ON SAID PROPERTY. THE WRITTEN APPROVAL FROM THE PROPERTY OWNER MUST BE ON FILE WITH THE CITY BEFORE ANY OPERATIONS WILL BE PERMITTED ON SAID PROPERTY.
- ANY PUBLIC OR PRIVATE PROPERTY INCLUDING LANDSCAPING, IRRIGATION OR OTHER IMPROVEMENTS WHICH IS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED IN KIND AT NO ADDITIONAL COST TO THE CITY AND TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING A COMPLETE SET OF CONTRACT PLANS AND SPECIFICATIONS, COUNTY PERMITS, SWPPP, AND THE LATEST GOVERNING STANDARD SPECIFICATIONS AT THE PROJECT SITE DURING WORK HOURS.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL POWER, UTILITIES, AND TEMPORARY FACILITIES THAT ARE NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECYCLING/DISPOSAL OF ALL BITUMINOUS PAVEMENT, CONCRETE, REINFORCEMENT, AND SPOILS NOT NEEDED FOR BACKFILL PER THE CONTRACT SPECIFICATIONS. MATERIAL DISPOSED OF SHALL BE AT AN APPROVED DISPOSAL FACILITY. ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON COMPLETION OF INSTALLATION.
- ALL FIELD STAKING AND SITE LAYOUT SHALL BE PERFORMED BY OR UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR OR CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AT THE EXPENSE OF THE CONTRACTOR. SURVEY CONTROL ESTABLISHED BY THE DESIGN TEAM AND CAD FILES WITH DESIGN LAYOUT WILL BE AVAILABLE TO THE CONTRACTOR'S SURVEYOR FOR CONSTRUCTION STAKING PURPOSES.
- BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT CONTAINED IN THE CONTRACT SPECIFICATIONS.
- UNLESS OTHER MATERIAL IS NOTED IN SPECIFIC DETAILS OR CIRCUMSTANCES, ALL NUTS, BOLTS, AND WASHERS USED TO SECURE UNDERGROUND FITTINGS SHALL BE STAINLESS STEEL. AFTER INSTALLATION, ALL STEEL HARDWARE SHALL BE COATED WITH A RUST PREVENTATIVE, WRAPPED WITH 8 MIL POLYETHYLENE SHEETING, AND SECURED WITH PVC TAPE.
- MECHANICAL RESTRAINTS TO BE PROVIDED AT ALL PRESSURE PIPELINE BENDS, WHETHER OR NOT SHOWN ON THE PLANS.

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES TO THE SATISFACTION OF THE CITY INSPECTOR AND PER THE ENVIRONMENTAL DOCUMENTS APPENDED TO THESE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PLAN HIS WORK IN CONFORMANCE WITH THE VARIOUS RESTRICTIONS AND REQUIREMENTS CONTAINED IN THE APPENDICES OF THE VOLUME 1 SPECIFICATIONS.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO CONSTRUCTION. PRE-CONSTRUCTION MEETING SHALL INCLUDE REPRESENTATIVES FROM CITY OF WHEATLAND, PACIFIC GAS AND ELECTRIC AND THE ENGINEER OF RECORD.
- TO SCHEDULE PUBLIC WORKS INSPECTION IN CITY RIGHT-OF-WAY, CALL (530) 633-8192 AT LEAST TWO WORKING DAYS PRIOR TO INSPECTION, EXCLUDING WEEKENDS AND HOLIDAYS.

EXISTING UTILITY NOTES

- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT {USA) AT 811. CONTRACTOR SHALL MAKE THE ENGINEER OF RECORD AWARE OF ANY DISCREPANCIES.
- EXISTING UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM EVIDENCE ON THE SURFACE OF THE SITE AND FROM AVAILABLE RECORDS. BEFORE COMMENCING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXPOSE BURIED STRUCTURES AND UTILITIES AS NEEDED TO VERIFY LOCATIONS AND ELEVATIONS. TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL NOTE THAT EXISTING UTILITY SERVICES ARE NOT ALL SHOWN ON THE PLANS. IF SHOWN ON THE PLANS, THE CITY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SUCH MATERIAL OR INFORMATION. CABLE TV LINES, IF PRESENT, ARE SOMETIMES LOCATED IN COMMON TRENCHES WITH OTHER UNDERGROUND UTILITIES. THE CONTRACTOR SHALL INCLUDE THESE CONSIDERATIONS IN HIS ESTIMATE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO CITY OR OTHER UTILITIES CAUSED BY HIS OPERATIONS.
- OVERHEAD UTILITIES ARE SHOWN WHERE KNOWN HEREIN. CONTRACTOR TO TAKE CARE TO IDENTIFY AND PROTECT DURING CONSTRUCTION.
- CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES. AT PG&E'S OPTION, PG&E MAY REQUIRE A SPECIAL PG&E INSPECTOR TO OBSERVE ANY WORK WITHIN 3-FEET OF ANY EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
- NO MECHANICAL EQUIPMENT SHALL BE USED WITHIN TWO (2) FEET OF PG&E GAS TRANSMISSION LINES. EXCAVATION IN THE VICINITY OF PG&E GAS FACILITIES SHALL FOLLOW PG&E UTILITY PROCEDURE TD-4412P-05 "EXCAVATION FOR DAMAGE PREVENTION".

MITIGATION NOTES

- THE PROJECT CONTRACTOR SHALL ENSURE THAT THE HEAVY-DUTY OFF-ROAD VEHICLES (50 HORSEPOWER OR MORE) TO BE USED IN THE CONSTRUCTION PROJECT, INCLUDING OWNED, LEASED, AND SUBCONTRACTOR VEHICLES, SHALL ACHIEVE A PROJECT-WIDE FLEET AVERAGE NOX REDUCTION OF 42% COMPARED TO THE YEAR 2023 CARB FLEET AVERAGE. THE 42% NOX REDUCTION MAY BE ACHIEVED BY REQUIRING A COMBINATION OF ENGINE TIER 3 OR TIER 4 OFF-ROAD CONSTRUCTION EQUIPMENT OR THE USE OF HYBRID, ELECTRIC, OR ALTERNATIVELY FUELED EQUIPMENT. FOR INSTANCE, THE EMISSIONS PRESENTED IN TABLE 4.2-10 WERE ACHIEVED BY REQUIRING ALL ON-ROAD HEAVY-DUTY HAUL TRUCKS TO BE MODEL YEAR 2010 OR NEWER, AND ALL OFF-ROAD CONSTRUCTION EQUIPMENT USED FOR GRUBBING/LAND CLEARING AND GRADING/EXCAVATION SHALL BE ENGINE TIER 4.
- OTHER ACCEPTABLE OPTIONS FOR REDUCING EMISSIONS MAY INCLUDE THE USE OF LATE MODEL ENGINES, LOW-EMISSION DIESEL PRODUCTS, ALTERNATIVE FUELS, ENGINE RETROFIT TECHNOLOGY, AFTER-TREATMENT PRODUCTS, AND/OR OTHER OPTIONS AS THEY BECOME AVAILABLE. THE FOLLOWING LINK SHALL BE USED TO CALCULATE COMPLIANCE WITH THIS CONDITION: [HTTP://WWW.AIRQUALITY.ORG/BUSINESSES/CEQA-LAND-USE-PLANNING/MITIGATION](http://www.airquality.org/businesses/ceqa-land-use-planning/mitigation) (CLICK ON THE CURRENT "CONSTRUCTION MITIGATION TOOL" SPREADSHEET UNDER STEP 1).
- THE CONSTRUCTION MITIGATION TOOL SPREADSHEET SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND VERIFICATION.
- PORTABLE EQUIPMENT OVER 50 HORSEPOWER MUST HAVE EITHER A VALID DISTRICT PERMIT TO OPERATE (PTO) OR A VALID STATEWIDE PORTABLE EQUIPMENT REGISTRATION PROGRAM (PERP) PLACARD AND STICKER ISSUED BY CARB.

REVISIONS	
MARK	DESCRIPTION
1	
2	
3	
4	
5	

PROJECT NUMBER C-06-8753-110
DATE: 11/03/2025
DRAWING NUMBER G03
SHEET NO.: 3 OF 250



PREPARED UNDER THE DIRECTION OF	DATE: 09/05/2025	REVIEWED BY: J. DIGIORGIO
<i>James Digorgio</i>		DRAWN BY: J. AYALA
DESIGNED BY: A. ORTIZ		

NEXGEN UTILITY MANAGEMENT
4010 LENNANE DRIVE
SACRAMENTO, CA 95834
916.564.8000



CALIFORNIA
WHEATLAND REGIONAL SEWER PIPELINE PROJECT
CITY OF WHEATLAND
INDEX OF DRAWINGS, DRAWING NUMBERING SYSTEM AND NOTES

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3
2
1
0

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

ORIGINAL PLOT DATE: 3 2 1 0

ABBREVIATIONS

AB ANCHOR BOLT, AGGREGATE BASE	FG FINISHED GRADE/FLAP GATE	PSI POUNDS PER SQUARE INCH
ABND ABANDONED	FH FIRE HYDRANT	PV PLUG VALVE
AC ASPHALT CONCRETE	FPM FEET PER MINUTE	PVC POLYVINYL CHLORIDE (PIPE)
ACK ACKNOWLEDGE	FPS FEET PER SECOND	PVT PAVEMENT
ADD ADDENDUM, ADDITION(AL)	FRP FIBERGLASS REINFORCED PLASTIC	R RISER
ADJ ADJUSTABLE	FT FEET, FOOT	RAD RADIUS
AGG AGGREGATE	FTG FOOTING	RBO REMOVED BY OTHERS (TO BE)
AHR ANCHOR	FUT FUTURE	RCP REINFORCED CONCRETE PIPE
AL ALUMINUM		RECOM RECOMMEND (ATION)
ALTN ALTERNATE	GALV GALVANIZED	RED REDUCER
APPROX APPROXIMATE(LY)	GND GROUND	REHAB REHABILITATE
ARCH ARCHITECTURAL	GPD GALLONS PER DAY	REINF REINFORCE (ING)
ARV AIR RELEASE VALVE	GPM GALLONS PER MINUTE	REMOV REMOVABLE
AT ALUMINUM THRESHOLD	GR GRADE	REQ REQUIREMENT (S)
ATM ATMOSPHERE	GS GALVANIZED STEEL	REQ'D REQUIRED
AUTO AUTOMATIC	GSP GALVANIZED STEEL PIPE	RMV REMOVE
AVG AVERAGE	GTV GATE VALVE	R&R REMOVE AND RELOCATE (REINSTALL)
AVV AIR VACUUM VALVE	GTV & B GATE VALVE AND VALVE BOX	R&S REMOVE AND SAVE (SALVAGE)
AWG AMERICAN WIRE GAUGE		RST REINFORCING STEEL
		RV RELIEF VALVE
BC BEGINNING OF CURVE	HDR HEADER	R/W RIGHT OF WAY
BD BOARD	HGR HANGER	R&W REMOVE AND WASTE
BF BLIND FLANGE	HNDRL HANDRAIL	RWD REDWOOD
BFP BACK FLOW PREVENTER	HORIZ HORIZONTAL	
BLDG BUILDING	HPV PLUG VALVE-HIGH PRESSURE SERVICE	SARV SEWAGE AIR RELEASE VALVE
BLK BLOCK	HSB HIGH STRENGTH BOLT	SAVV SEWAGE AIR VACUUM VALVE
BO BLOW-OFF	HV HOSE VALVE, HOSE BIBB	SCAV SEWAGE COMBINATION AIR VALVE
BOD BIOCHEMICAL OXYGEN DEMAND	HWL HIGH WATER LEVEL	SCS SUPERVISORY COMPUTER STATION
BOT BOTTOM		SG SLUICE GATE
BFV BUTTERFLY VALVE	ID INSIDE DIAMETER	SH SHEET
BV BALL VALVE	IE INVERT ELEVATION	SIM SIMILAR
	IF INSIDE FACE	SLG SLIDE GATE
CAP CAPACITY	IN INCH	SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
CAV COMBINATION AIR VALVE	INVT INVERT	SMS SHEET METAL SCREW
CB CATCH BASIN	JB JUNCTION BOX	SP STRUCTURAL PLYWOOD
CC CENTER TO CENTER	JT JOINT	SPEC SPECIFICATIONS
CCSP CEMENT LINED & COATED STEEL PIPE		SPRT SUPPORT
CCV CUSHIONED SWING CHECK VALVE	MAX MAXIMUM	SQ SQUARE
C&G CURB AND GUTTER	MECH MECHANICAL	SR SHORT RADIUS
CJ CONSTRUCTION JOINT	MFR MANUFACTURER	SST STAINLESS STEEL
CMP CORRUGATED METAL PIPE	MGD MILLION GALLONS PER DAY	STD STANDARD, STORM DRAIN
CMU CONCRETE MASONRY UNIT	MGAL MILLION GALLONS	STIFF STIFFENER
CND CONDUIT	MH MANHOLE	STL STEEL
CO CLEANOUT	MIN MINIMUM, MINUTE	
CONC CONCRETE	MISC MISCELLANEOUS	T&B TOP AND BOTTOM
CONN CONNECTION	MJ MECHANICAL JOINT	TB THRUST BLOCK
CONST CONSTRUCTION	MTD MOUNTED	TBA TO BE ABANDONED
COTG CLEANOUT TO GRADE		TOC TOP OF CONCRETE
CPL CONCRETE PROTECTIVE LINER	NFYD NON FREEZE YARD DRAIN	TOW TOP OF WALL
CPLG COUPLING	NFYH NON FREEZE YARD HYDRANT	TOS TOP OF STEEL
CT CONSTANT TORQUE	NG NATURAL GAS	TYP TYPICAL
CTR CENTER	NIC NOT IN CONTRACT	
CV CHECK VALVE	NTS NOT TO SCALE	UGND UNDERGROUND
		UNO UNLESS NOTED OTHERWISE
DET DETAIL	OC ON CENTER	U/P UTILITY POLE
DIA DIAMETER	OD OUTSIDE DIAMETER	
DIP DUCTILE IRON PIPE	OF OUTSIDE FACE	V VALVE, VENT, VOLTS
DN DOWN	OI OPERATOR INTERFACE	VAR VARIES (ABLE)
DWG DRAWING	OPER OPERATOR (ING)	VB VALVE BOX, VACUUM BREAKER
	OPNG OPENING	VERT VERTICAL
(E) EXISTING	OPP OPPOSITE	VFD VARIABLE FRQUENCY DRIVE
EA EACH		VT VARIABLE TORQUE
EC END OF CURVE	PAC POLYALUMINUM CHLORIDE	
EF EACH FACE	PB PULL BOX	W/ WITH
EFL EFFLUENT	PBV PLASTIC BALL VALVE	W/O WITHOUT
EJ EXPANSION JOINT	PCV PLASTIC CHECK VALVE	WP WATER PROOF
EL ELEVATION	PG PRESSURE GAUGE	WS WATER SURFACE
ELEC ELECTRIC(AL)	PI POINT OF INTERSECTION	WSEL WATER SURFACE ELEVATION
EP EDGE OF PAVEMENT	PL PLACES, PLATE, PROPERTY LINE	WSTP WATERSTOP
EQPT EQUIPMENT	PLC PROGRAMMABLE LOGIC CONTROLLER	WWF WELDED WIRE FABRIC
EW EACH WAY	PP POWER POLE, PIPE PENETRATION	
EXIST EXISTING	PPLN PIPELINE	XFMR TRANSFORMER
EXT EXTERIOR	PREFAB PREFABRICATED	
	PRESS PRESSURE	YCO YARD CLEANOUT
(F) FUTURE	PRFV PRESSURE RELIEF VALVE	
FCA FLANGE COUPLER ADAPTOR	PRV PRESSURE REGULATING (REDUCING) VALVE	
FCS FIELD CONTROL STATION	PS PRESSURE SWITCH, PIPE SUPPORT	
FF FINISHED FLOOR	PSF POUNDS PER SQUARE FOOT	

SYMBOLS

	SECTION IDENTIFICATION LETTER
	SHEET OR DRAWING NUMBER WHERE SECTION APPEARS
	DETAIL IDENTIFICATION LETTER
	SHEET OR DRAWING NUMBER WHERE DETAIL IS TAKEN OR APPEARS
	DETAIL IDENTIFICATION NUMBER
	SEE TYPICAL DETAIL SHEETS
	NEW FACILITIES
	EXISTING FACILITIES
	NEW FENCE
	EXISTING FENCE
	NEW CONTOUR
	EXISTING CONTOUR
	NEW EMBANKMENT
	EXISTING EMBANKMENT
	EXISTING PIPE OR STRUCTURE TO BE ABANDONED OR REMOVED
	NEW SPOT ELEVATION
	EXISTING SPOT ELEVATION
	TREE & TRUNK DIAMETER
	TREE TO BE REMOVED
	NEW MANHOLE & PIPELINE
	EXISTING MANHOLE & PIPELINE
	HORIZONTAL LENGTH AND SIZE OF NEW PIPE
	INVERT ELEVATION (PROFILE)
	NEW MANHOLE STATION
	SLOPE OF NEW PIPE (PROFILE)
	NEW POWER POLE
	EXISTING POWER POLE
	EXISTING UNDERGROUND CABLE
	OVERHEAD ELECTRICAL
	EXISTING OVERHEAD ELECTRICAL
	ORNAMENTAL FENCE
	CHAINLINK FENCE
	TEMPORARY EXCLUSION FENCE

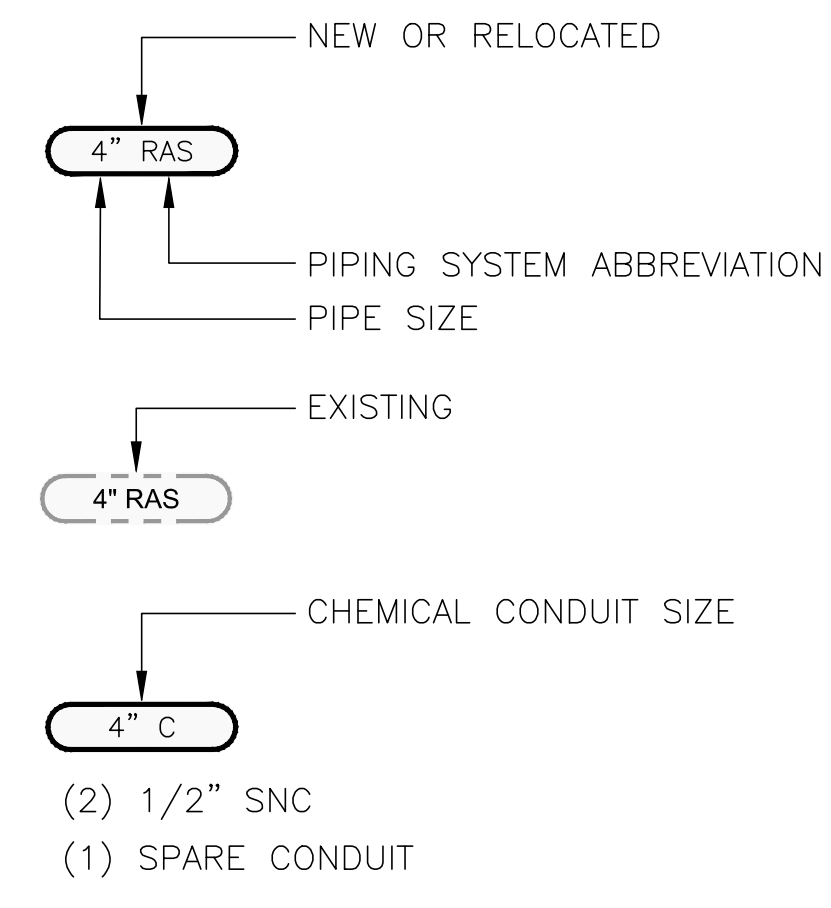
PIPING SYMBOLS

	AIR RELEASE VALVE AIR & VACUUM VALVE COMBINATION AIR VALVE
	GATE VALVE
	CHECK VALVE
	SPLIT DISK CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	BACK-FLOW PREVENTER
	DIAPHRAGM VALVE
	PRESSURE RELIEF VALVE
	PLUG VALVE (SEAT SIDE BLACK)
	BALL VALVE
	GLOBE VALVE
	ANGLE VALVE
	BUTTERFLY VALVE
	UNION
	REDUCER
	STRAINER
	PRESSURE GAUGE OR SWITCH
	HOSE VALVE
	FIRE OR WHARF HYDRANT
	MECHANICAL JOINT OR BELL & SPIGOT FITTING
	FLANGED FITTING
	FLANGED COUPLING ADAPTER
	FLEXIBLE COUPLING
	GROOVED COUPLING

HATCHING LEGEND

	NEW AGGREGATE BASE		EXISTING CONCRETE
	NEW CONCRETE		EXISTING ASPHALT PAVING
	NEW ASPHALT PAVING		EXISTING AGGREGATE BASE
	GRATE		
	HATCH		
	ENGINEERED FILL		
	SUBGRADE		
	CRUSHED ROCK		
	GROUT		

PIPING IDENTIFICATION SYSTEM



NOTE:
SEE PIPING ABBREVIATIONS BELOW. SEE SPECIFICATIONS FOR PIPE MATERIAL NOT NOTED ON THE DRAWINGS.

PIPING SYSTEM ABBREVIATIONS

C	CONDUIT
CLS	CHLORINE SOLUTION
CNS	CALCIUM NITRATE SOLUTION
D	DRAIN
FA	FOUL AIR
FM	FORCE MAIN
G	GAS
HP	HIGH PRESSURE
OF	OVER FLOW
RS	RAW SEWAGE
SS	SANITARY SEWER
SMP	SAMPLE
STD	STORM DRAIN
V	VENT
WP	POTABLE WATER
WN	NON-POTABLE WATER



PREPARED UNDER THE DIRECTION OF
DATE: 09/05/2025
DRAWN BY: J. AYALA
DESIGNED BY: A. ORTIZ
REVIEWED BY: J. DIGIORGIO

NEXGEN UTILITY MANAGEMENT
4010 LENNANE DRIVE
SACRAMENTO, CA 95834
916.564.8000

CALIFORNIA
WHEATLAND REGIONAL SEWER PIPELINE PROJECT
CITY OF WHEATLAND

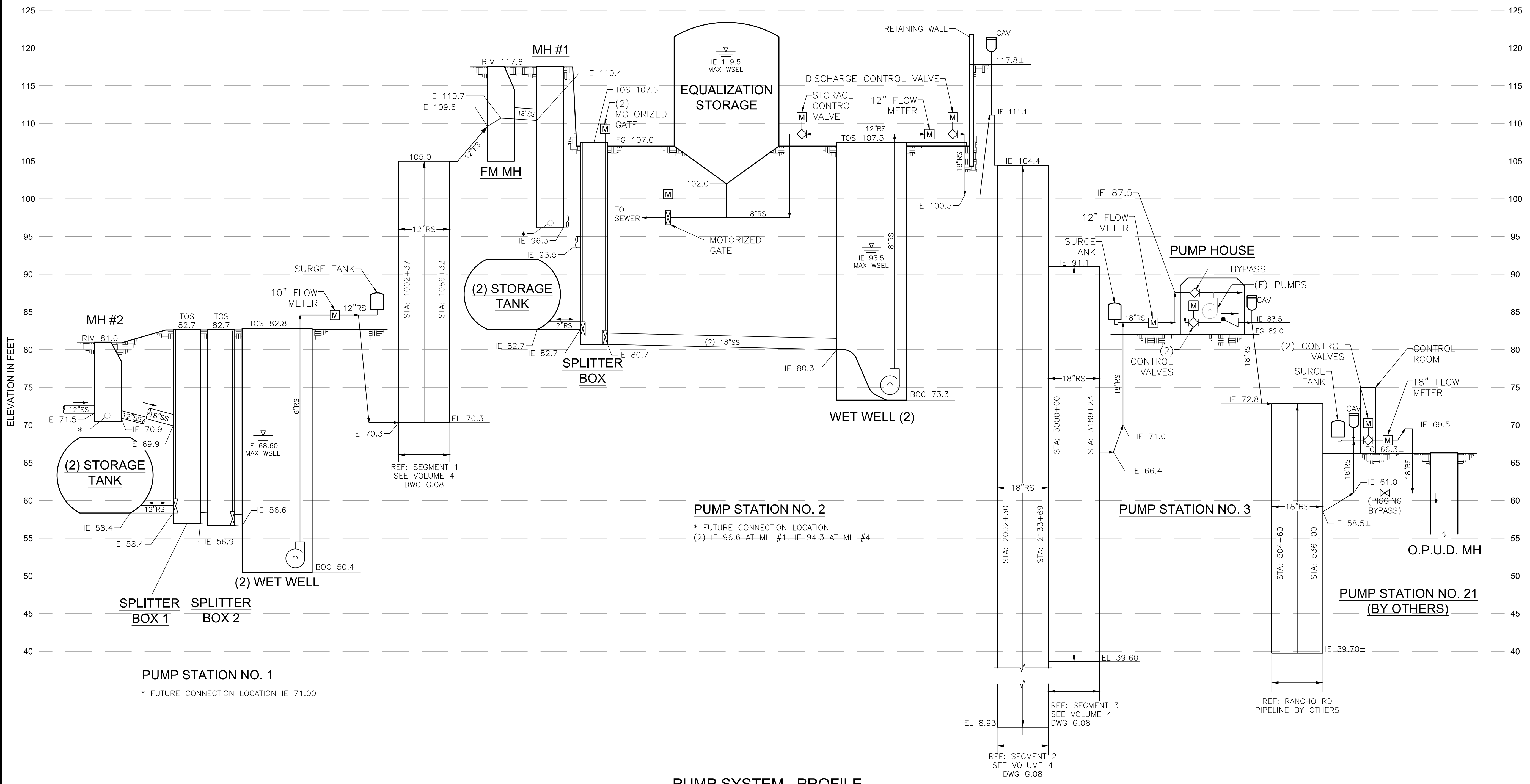
ABBREVIATIONS, SYMBOLS, PIPING ABBREVIATIONS AND PIPING SYMBOLS

REVISIONS	
MARK	DESCRIPTION
1	
2	
3	
4	
5	

PROJECT NUMBER
C-06-8753-110
DATE: 11/03/2025
DRAWING NUMBER
G04
SHEET NO.:
4 OF 250

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

ORIGINAL PLOT DATE:



PUMP SYSTEM PROFILE

PUMP STATION NO.1		
	INITIAL	DESIGN
ADWF (GPD)	450,000	750,000
PEAK HOUR (GPM)	1,080	1,680
TYPICAL OPERATING FLOWS (GPM)	520	520
FLUSHING FLOW (GPM)	980	980
NUMBER OF PUMPS	4	4
SIZE (HP, EACH PUMP)	65	65
CAPACITY (GPM, EACH PUMP)	---	850
PEAK HOUR TDH (FEET)	95	150
GENERATOR SIZE (KW)	300	300
FUEL TYPE	NATURAL GAS	NATURAL GAS
SEWER STORAGE TANKS (NO.)	2	2
SEWER STORAGE TANKS SIZE (GALLONS)	20,000	20,000
SURGE TANK SIZE (GALLONS)	250	250

PUMP STATION NO.2		
	INITIAL	DESIGN
ADWF (GPD)	450,000	1,600,000
PEAK HOUR (GPM)	1,080	3,080
TYPICAL OPERATION FLOWS (GPM)	1,020	1,020
FLUSHING FLOW (GPM)	2,140	2,140
NUMBER OF PUMPS	6	6
SIZE (HP, EACH PUMP)	65	65
CAPACITY (GPM, EACH PUMP)	---	650
PEAK HOUR TDH (FEET)	105	160
GENERATOR SIZE (KW)	2 x 300	2 x 300
FUEL TYPE	NATURAL GAS	NATURAL GAS
SEWER STORAGE TANKS (NO.)	2	2
SEWER STORAGE TANKS SIZE (GALLONS)	20,000	20,000
EQUALIZATION TANKS (NO.)	1	3
EQUALIZATION TANKS SIZE (GALLONS, EA)	400,000	400,000

PUMP STATION NO.3		
	INITIAL	DESIGN
ADWF (GPD)	450,000	1,600,000
PEAK HOUR (GPM)	---	3,080
TYPICAL OPERATING FLOWS (GPM)	1,020	1,020
FLUSHING FLOW (GPM)	2,140	2,140
NUMBER OF PUMPS	0	4
SIZE (HP, EACH PUMP)	---	40
CAPACITY (GPM, EACH PUMP)	---	1,030
PEAK HOUR TDH (FEET)	---	65
GENERATOR SIZE (KW)	100	300
FUEL TYPE	DIESEL	TBD
FUEL TANK SIZE (GALLONS)	394	TBD
SURGE TANK SIZE (GALLONS)	1,000	1,000

*IF PUMPING TO OPUD PS21

SEE VOLUME 4, DRAWINGS G.13 AND G.14 FOR PIPELINE HYDRAULIC GRADE LINES UNDER OPERATING CONDITIONS

REVISIONS	
MARK	DESCRIPTION
1	
2	
3	
4	
5	



PREPARED UNDER THE DIRECTION OF
 DATE: 09/05/2025
 REVIEWED BY: J. DIGIORGIO
 DRAWN BY: J. AYALA
 DESIGNED BY: A. ORTIZ

NEXGEN UTILITY MANAGEMENT
 4010 LENNANE DRIVE
 SACRAMENTO, CA 95834
 916.564.8000

CALIFORNIA
 WHEATLAND REGIONAL SEWER PIPELINE PROJECT
 CITY OF WHEATLAND
PUMP SYSTEM PROFILE AND DESIGN CRITERIA

PROJECT NUMBER: C-06-8753-110
 DATE: 11/03/2025
 DRAWING NUMBER: G05
 SHEET NO.: 5 OF 250