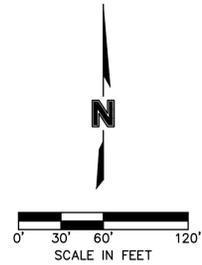
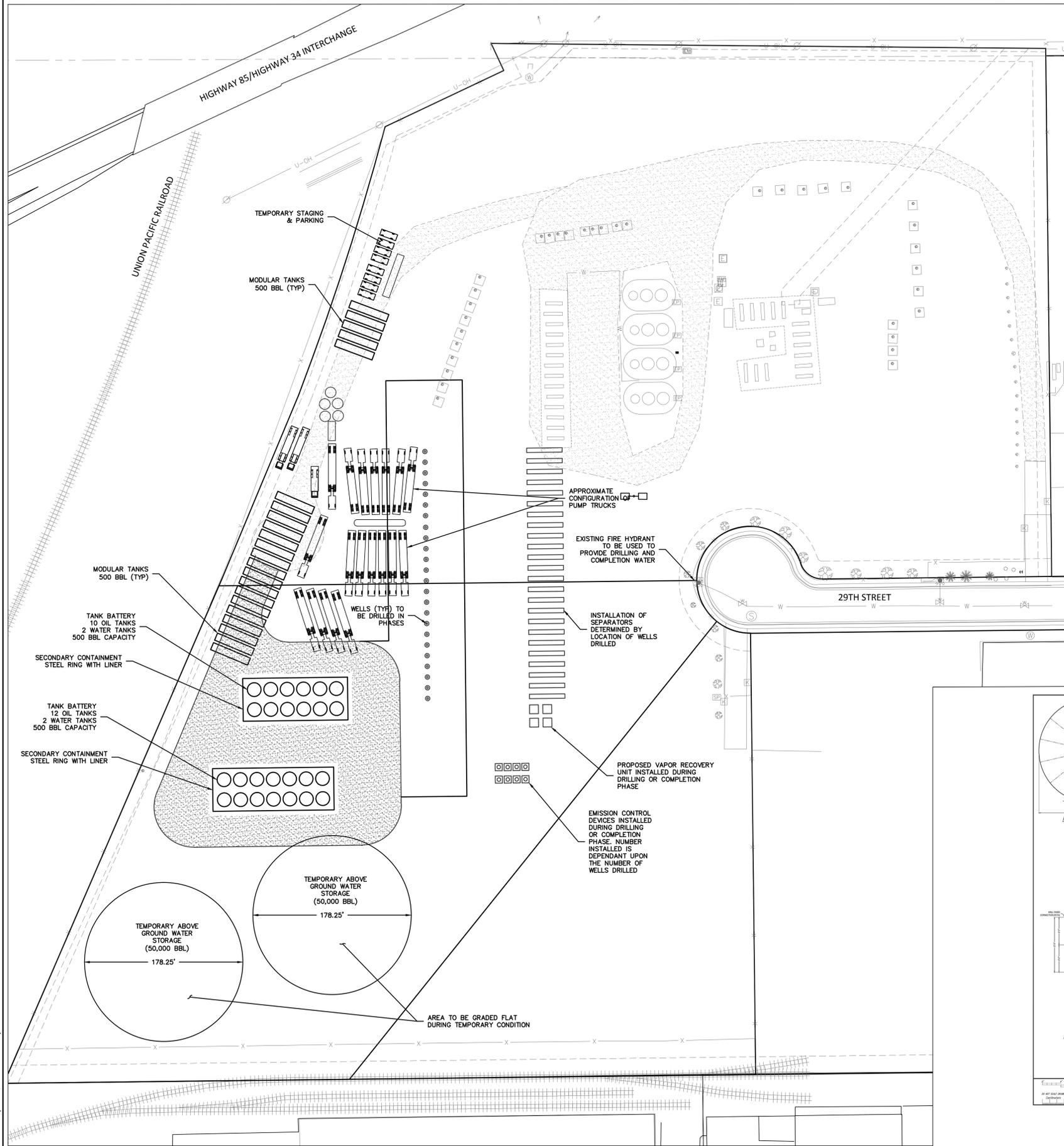


COMPLETION PHASE SCHEMATIC



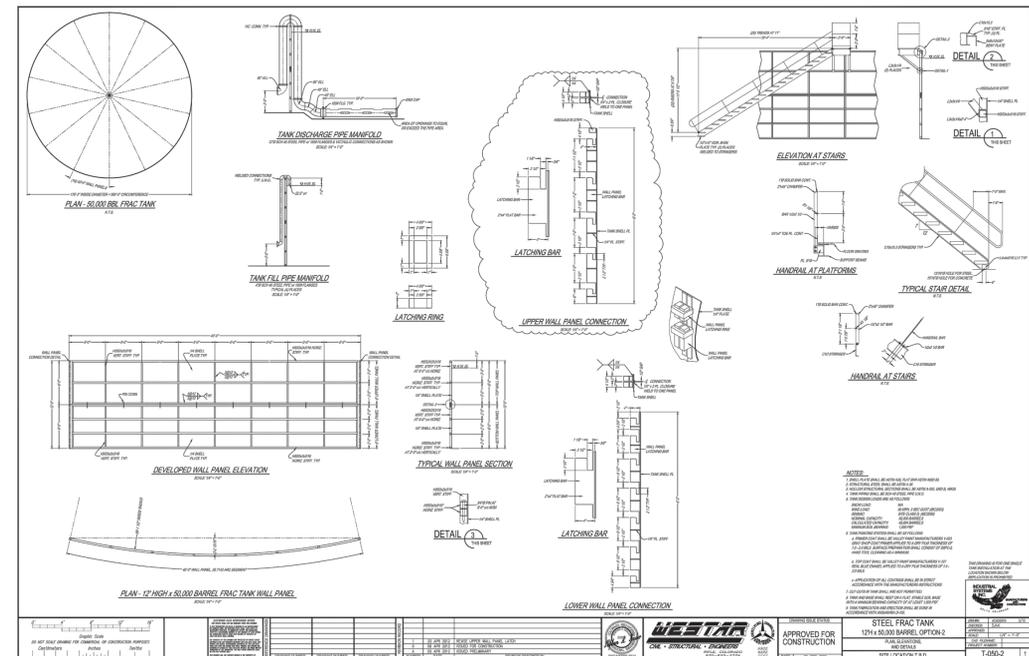
TEMPORARY COMPLETION EQUIPMENT
 EXAMPLE CONFIGURATION
 ESTIMATED DURATION ON-SITE: 2 DAYS PER WELL

GENERAL NOTES

1. THE LAYOUT SHOWN ON THIS PLAN IS CONCEPTUAL AND IS A REPRESENTATION OF THE ANTICIPATED LAYOUT OF EQUIPMENT USED DURING THE COMPLETION PHASE OF THIS PROJECT. ACTUAL LOCATION OF EQUIPMENT MAY VARY.
2. ABOVE GROUND WATER STORAGE TANK IS TEMPORARY AND WILL BE MOVED OFF-SITE UPON COMPLETION OF WELLS.
3. THE PUMPER TRUCKS AND OTHER ASSOCIATED EQUIPMENT WILL BE MOVED OFF-SITE UPON COMPLETION OF COMPLETION OPERATIONS.

BEST MANAGEMENT PRACTICES

1. A NOISE IMPACT MODELING REPORT WAS PREPARED BY BEHRENS AND ASSOCIATES, INC. REFER TO THE REPORT FOR SPECIFICS PERTAINING TO ANTICIPATED NOISE FROM THE PROPOSED USE.
2. TO REDUCE IMPACTS TO AIR QUALITY GAS GATHERING LINES WILL BE CONSTRUCTED AND INSTALLED PRIOR TO COMPLETION OF THE WELLS. THEREFORE FLARING OF GAS DURING THE FLOWBACK PROCESS WILL BE LIMITED, IF NOT ELIMINATED.
3. TO IMPROVE AIR QUALITY, GENERATED DUST FROM THE SILICA SAND USED DURING HYDRAULIC FRACTURING WILL BE CONTAINED USING A DUST SUPPRESSION VACUUM SYSTEM.
4. TEMPORARY ABOVE GROUND WATER TANKS SHALL BE INSTALLED ON-SITE TO BE USED FOR WATER STORAGE DURING THE COMPLETION PHASE. TANKS WILL BE FILLED FROM THE CITY OF GREELEY'S WATER SYSTEM. BY FILLING THE TANK IN THIS MANNER, WATER HAULING TRUCKS WILL NOT BACK UP TO THE TANK TO OFFLOAD WATER. THIS PROCESS SIGNIFICANTLY REDUCES THE CHANCE OF A COLLISION WITH THE TANK. IN ADDITION, THIS PROCESS ALSO SIGNIFICANTLY REDUCES TRUCK TRAFFIC ASSOCIATED WITH WATER HAULING.
5. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED DURING TANK INSTALLATION:
 - 5.A. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH TANK MANUFACTURERS SPECIFICATIONS PRIOR TO TANK INSTALLATION, INCLUDING ENSURING THAT PROPER COMPACTION REQUIREMENTS HAVE BEEN MET.
 - 5.B. A 36-MIL FABRIC REINFORCED LINER WILL BE UTILIZED, IN THE EVENT THAT A TANK BREACH WERE TO OCCUR, THE FABRIC REINFORCED LINER WILL PREVENT A "ZIPPERING" FAILURE FROM OCCURRING.
6. SECONDARY CONTAINMENT WILL BE PROVIDED AROUND THE TANK BATTERY AND SEPARATORS PER COGCC RULES AND REGULATIONS. SECONDARY CONTAINMENT AROUND THE TANK BATTERY WILL INCLUDE A STEEL CONTAINMENT SYSTEM, 30"-44 INCHES TALL, WITH EITHER A GEOMEMBRANE TOP MOUNTED OR SPRAY ON LINER.



TEMPORARY ABOVE GROUND WATER STORAGE TANK

NOT TO SCALE



NOTE
 THIS DOCUMENT HAS BEEN RELEASED BY OLSSON ASSOCIATES ONLY FOR REVIEW BY REGULATORY AGENCIES AND OTHER PROFESSIONALS, AND IS SUBJECT TO CHANGE. THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION.

OLSSON ASSOCIATES ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS HOWEVER THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.



CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

REV. NO.	DATE	DESCRIPTION
A	12/24/13	1ST USER SUBMITTAL TO CITY
B	02/21/14	2ND USER SUBMITTAL TO CITY
C	04/02/14	3RD USER SUBMITTAL TO COG

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DWG: F:\Projects\013_2581\LDVP\Final_Plans\132581_COMP01.dwg USER: jay 132581_SBASE
 DATE: Apr 01, 2014 5:06pm XREFS: 132581_PBASE