PUBLIC SYSTEM DESIGN APPROVAL BOX

COLORADO SPRINGS UTILITIES
WASTEWATER DESIGN APPROVAL

Date: _____ By: _____

PROJECT NO. 2007-S RMS NO. 00000

In case of errors or omissions with the sewer design as shown on this document the standards as defined in the "Line Extension and Service Standards" shall rule.
48-Hour notification is required prior to start of construction.
Phone the Inspections Section
Approval expires 180 days from Design Approval.

WASTEWATER SERVICE APPROVAL

COLORADO SPRINGS UTILITIES — 5/29/09 DATE
PROJECT NO: 2009-S-040
WORKORDER NO:

WASTEWATER GENERAL NOTES:

The Contractor shall notify the Colorado Springs Utilities, Inspection Supervisor (668-4658) 48 hours prior to the start of construction to outline methods of construction, materials to be used, construction staking.

1.) All D.I.P. shall be cathodically protected by bonding all joints, poly-wrapping, and installing 17lb magnesium anodes at the locations shown on the drawings. The cost of all cathodic protection shall be included in the project.

2.) All PVC pipe shall be installed per Colorado Springs Utilities "Line Extension & Service Standard" Specifications.

3.) If a bypass pumping plan or Flow Management Plan is needed, it shall be reviewed and approved by the Colorado Springs Utilities, prior to design approval. The Contractor shall have 100% redundant pumping capacity with 24 Hour supervision during all pumping operations.

4.) All manholes located within the Project Limits shall be located and raised by the Contractor. If the manhole is in poor condition or if the distance between the Ring/Cover and Cone of the manhole exceeds the wastewater standards, the Contractor may be required to replace part or all of the existing manhole.

5.) All manholes to be abandoned shall have the "IN" and "OUT" inverts plugged with a watertight mechanical plug and grouted, the cone section shall be removed and disposed, the ring and cover removed and returned to the Colorado Springs Utilities, and the manhole filled with compacted fill.

6.) If an abandoned sewer line falls under a proposed structure it shall be removed or grouted full.

7.) If field conditions are found to be different than shown on the plans the Contractor shall notify the Colorado Springs Utilities Inspector and the Engineer immediately so that appropriate action can be taken by the Owner/Developer.

8.) The Contractor is responsible for any damage to the wastewater pipelines as a result of his actions. The Contractor shall make all the required repairs immediately to the satisfaction of the Colorado Springs Utilities Inspector.

9.) All pipelines 10" diameter and larger and pipelines less than 1.04% grade shall be "As-Built" surveyed. "As-Built" drawing(s) and electronic file shall be submitted to the Colorado Springs Utilities for review and acceptance.

10.) All Septic Tanks to be abandoned shall have the inverts plugged, the lid removed, and the tank filled with approved (granular) compacted fill. The El Paso County Department of Health shall be notified when any Septic tank is abandoned. The contractor shall notify the Department of Health and pay all necessary fees and permits.

11.) The Contractor will be required to replace existing manholes that, in the Colorado Springs Utilities Inspector's view, are found to be in poor condition and can no longer be modified or used.

12.) The Contractor will verify and reconnect all existing service connections with the approval of the Colorado Springs Utilities Inspector. The Contractor shall note that services other than those from adjacent structures may be encountered.

13.) For Deep Service sanitary sewer connections reference Wastewater Construction Detail Drawings for minimum slopes and depth of plug details.

14.) For Service Location, ref: Wastewater Construction Detail Drawings and reference Chapter 7.

15.) Tracer wire is to be installed with all sanitary sewer main lines and service lines (from the main line to the building structure), reference Wastewater Construction Detail Drawings for manhole configuration and service clean-outs.

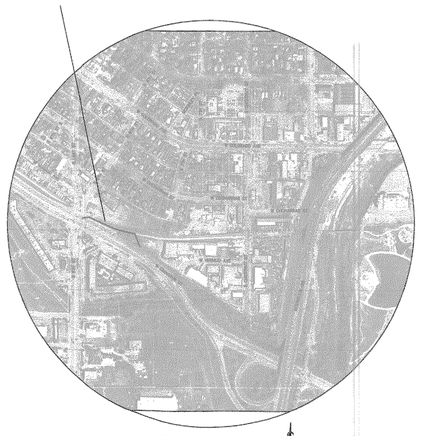
16.) Geotechnical and groundwater studies have not been performed in preparation of these plans. Conditions may be encountered that would require deviations from these plans. Utilities makes no warranties or representations regarding existing conditions.

For Pipelines less than 1.04% grade the following additional installation practices shall be used.

(a) The bottom of pipe trench shall be plate tamped prior to the installation of any pipe or bedding material.

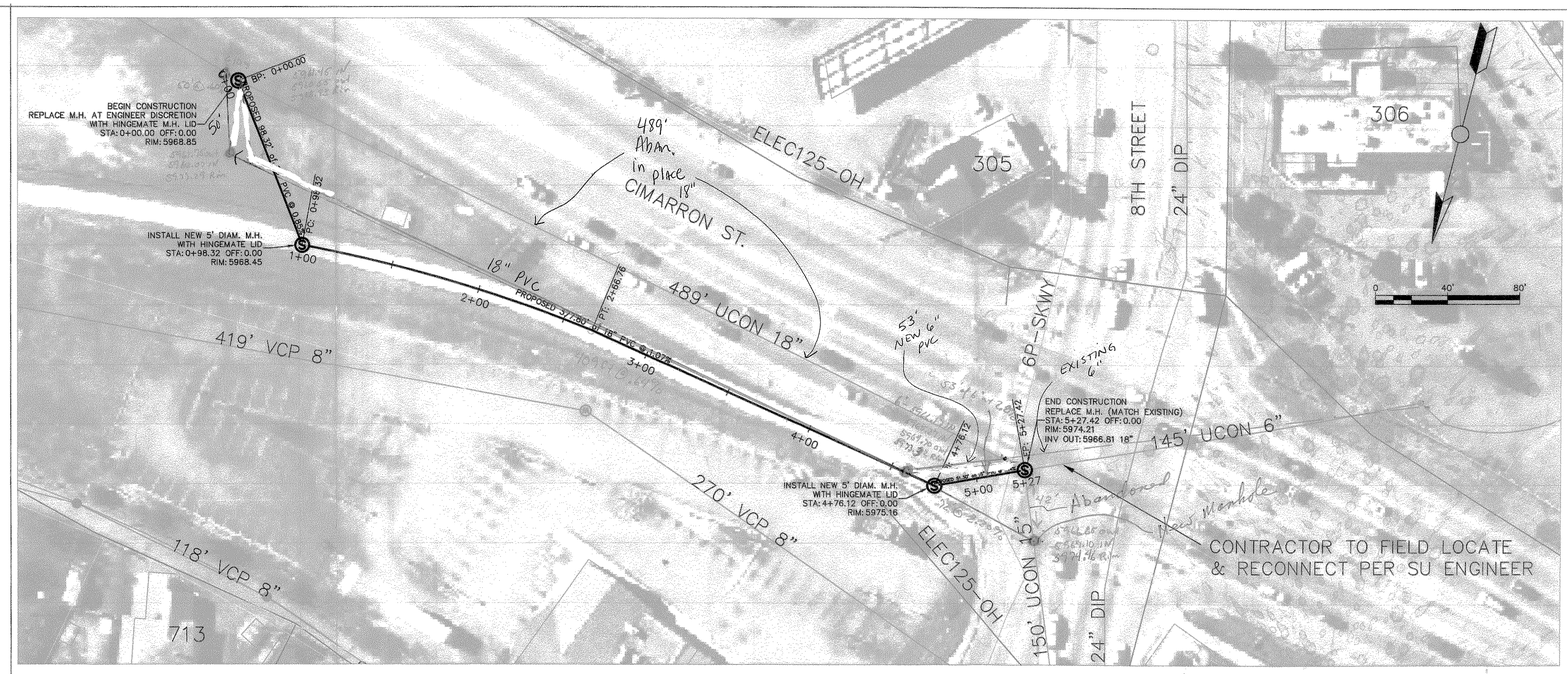
(b) Select bedding material shall be installed per Section 2.16 of the "Colorado Springs Utilities, Wastewater Standards"
(c) Trench Backfill Material shall be installed per Section 2.17 of the "Colorado Springs Utilities, Wastewater Standards"
(d) Pipelines for less than 1.04% shall be "AS CONSTRUCTED" by a licensed surveyor or an appropriate representative under his direct supervision. The "as constructed manhole inverts shall be recorded on the record drawing(s) submitted to Colorado Springs Utilities Records Management

SITE LOCATION

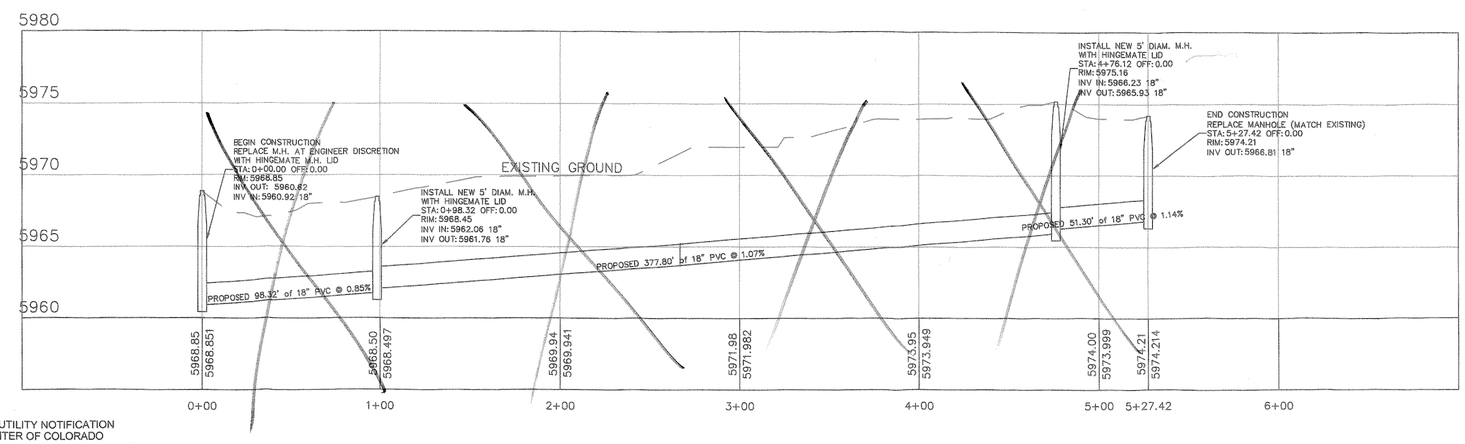


SITE MAP – N.T.S.

N



As- Built in Red Pen
Design in black
Existing in green



CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PROFILE SCALE
1" = 40' HORIZ.
1" = 5' VERT.

LEGEND

EXISTING ROW/PROPERTY LINE	VALVE (PROPOSED)
EXISTING CURB LINE	VALVE (EXISTING)
EXISTING GAS MAIN	BLOWOFF (PROPOSED)
EXISTING WATER	BLOWOFF (EXISTING)
PROPOSED WATER	PLUG (PROPOSED)
EXISTING STORM DRAIN	PLUG (EXISTING)
EXISTING ELECTRIC	EXISTING FIRE HYDRANT
EXISTING SEWER	PROPOSED FIRE HYDRANT
EXISTING MAN HOLE	EXISTING FIBER LINE/CABLE
PROPOSED SEWER/MAN HOLE	FENCE/WALL

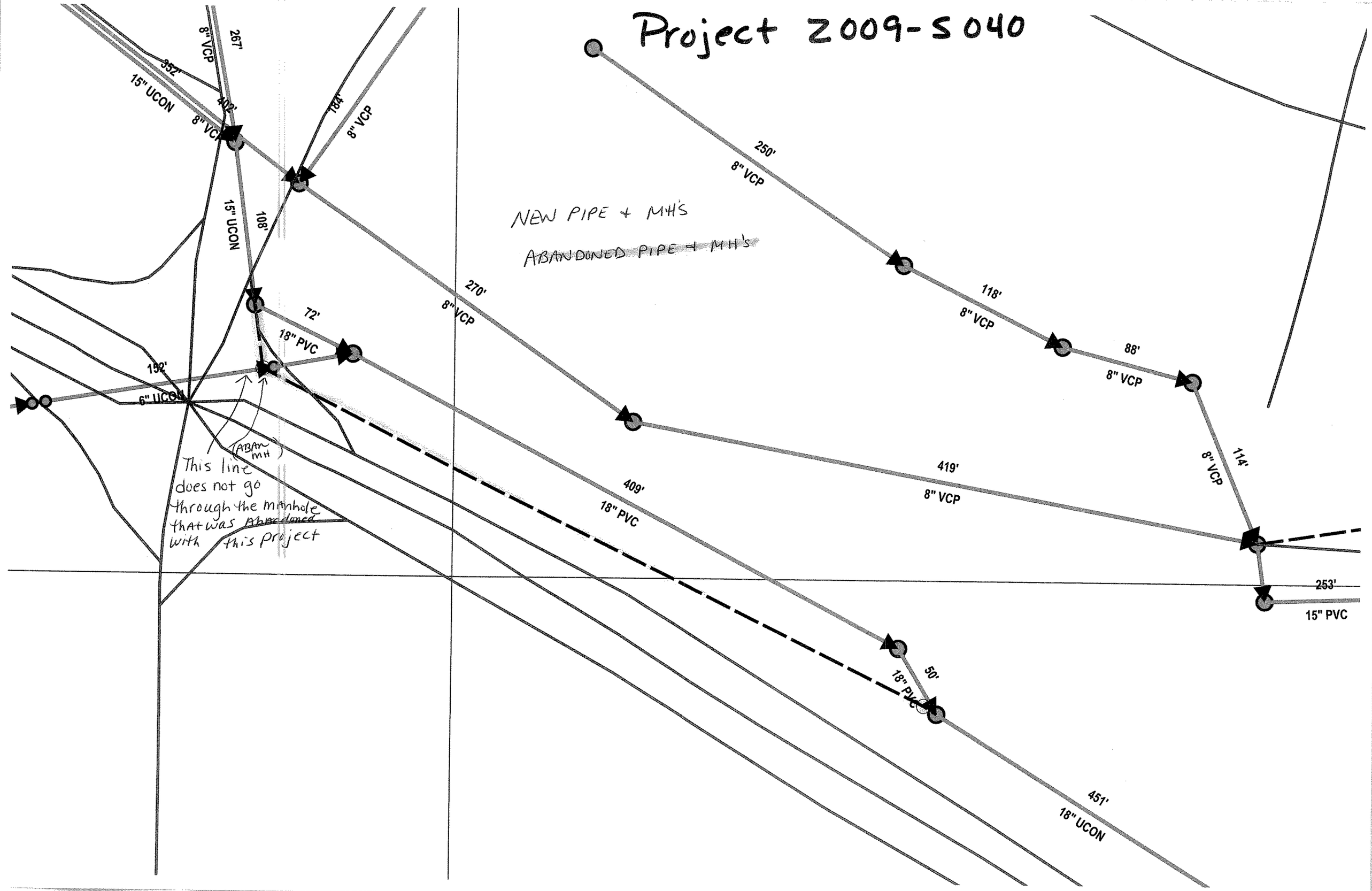
(PROJECT RELATED INFORMATION)

PARENT WORK ORDER NUMBER: 1660705
PROJECT NUMBER: 2009-S-040
FIMS MAP: xx
SHEET NO: 1 OF 1
NETWORK LOCATION & DRAWING TITLE:
L:\PEM\WWPD\PROJECTS-ONGOING\2009 Projects\SSERP Designs\8th and 24
REVISIONS:

8TH & CIMARRON 18" UCON REPLACEMENT
REPLACE APPOX. 530' OF 18" UCON GRAVITY MAIN WITH 18" PVC GRAVITY MAIN ON NEW ALIGNMENT IN BIKE PATH NORTH OF W. CIMARRON ST.

18" PLAN & PROFILE - STA: 0+00.00 TO STA: 5+27.42

Colorado Springs Utilities
It's how we're all connected

DESIGN BY:	J. RASMUSSEN	DATE:	May 29, 2009
APPROVED BY:	B. MULLIGAN	DATE:	May 29, 2009
SURVEYED BY:	G. RUST		
SCALE:	1" = 40' HORIZ. (PLAN), 1" = 40' (PROFILE) 1" = 5' VERT.		

Project 2009-S040