PLANS FOR
INTERCEPTING SEWER
COLORADO SPRINGS, COLORADO

CONTRACT 3

INDEX

SHEET NO.	TITLE		
1.	GENERAL LAYOUT		
2.	PLAN PROFILE	LINE NO. 3	STA. 0 + 00 TO STA 15 + 00
3.	" "	" "	" 15 + 00 " " 30 + 00
4.	" "	" "	" 30 + 00 " " 45 + 00
5.	" "	" "	" 45 + 00 " " 61 + 00
6.	" "	" "	" 61 + 00 " " 77 + 00
7.	" "	" "	" 77 + 00 " " 93 + 00
8.	" "	" "	" 93 + 00 " " 108 + 00
9.	" "	" "	" 108 + 00 " " 124 + 00
10.	" "	" "	" 124 + 00 " " 140 + 00
11.	" "	" "	" 140 + 00 " " 153 + 97
12.	MISCELLANEOUS DETAILS		
13.	STANDARD MANHOLE DETAILS		

BLACK & VEATCH
CONSULTING ENGINEERS
KANSAS CITY, MO.

1951

#51-65

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. — MEASUREMENTS CHECKED / BY M.T. NOTED / STRUCTURE NUMBERS CHECKED — DATE

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — MEASUREMENTS CHECKED / BY M.T. NOTED / STRUCTURE NUMBERS CHECKED — DATE

Sta. 46+40 Δ=1°11' Rt.
Sta. M++
Intercept existing 6" sanitary sewer from East. Plug existing 6" sanitary sewer to West.

Sta. 49+34
Sta. M++
Intercept existing 6" sanitary sewer from East. Plug existing 6" sanitary sewer to West.

8" Water line
8" San. Sewer
(Gravel Surface)
10" Gas line (H.P.) W.I.
SIERRA MADRE AVENUE
4" Gas line
New 30" Sanitary sewer, line 3
6" San. Sewer
4" Gas line
Asphalt Mat Surfacing
Concrete Curb & Gutter
Sta. 53+76 Sta. M++
16" Cast Iron Pipe Duct & Water Line
4" Gas line
Asphalt Mat Surfacing
8" San. Sewer
4" Gas (H.P.) W.I.
6" Water
Concrete Curb & Gutter
10" Gas line (H.P.) W.I.
24" Gas line W.I.
Asphalt Mat Surfacing
Gas Regr. M.H.
End of Asphalt Mat Surfacing
8" San. Sewer
MORENO ST.
4" Water
4" Gas
Wetland Fill (Boulders)
Water
Sta. 58+29 Sta. M++
Water
STA 45+00
STA 50+00
STA 55+00
STA 60+00
6" San. Sewer
8" San. Sewer
Asphalt Mat Surfacing
Asphalt Mat Surfacing
8" Water line
Water
B19 B15 B13 B11 B09 B07 B05 B03 B01 A99 A97 A95 A93 A91 A89 A87 A85 A83 A81 A79 A77 A75 A73 A71 A69 A67 A65 A63 A61 A59 A57 A55 A53 A51 A49 A47 A45 A43 A41 A39 A37 A35 A33 A31 A29 A27 A25 A23 A21 A19 A17 A15 A13 A11 A09 A07 A05 A03 A01 B02 B04 B06 B08 B10 B12 B14 B16 B18 B20 B22 B24 B26 B28 B30 B32 B34 B36 B38 B40 B42 B44 B46 B48 B50 B52 B54 B56 B58 B60 B62 B64 B66 B68 B70 B72 B74 B76 B78 B80 B82 B84 B86 B88 B90 B92 B94 B96 B98 C00 C02 C04 C06 C08 C10 C12 C14 C16 C18 C20 C22 C24 C26 C28 C30 C32 C34 C36 C38 C40 C42 C44 C46 C48 C50 C52 C54 C56 C58 C60 C62 C64 C66 C68 C70 C72 C74 C76 C78 C80 C82 C84 C86 C88 C90 C92 C94 C96 C98 D00 D02 D04 D06 D08 D10 D12 D14 D16 D18 D20 D22 D24 D26 D28 D30 D32 D34 D36 D38 D40 D42 D44 D46 D48 D50 D52 D54 D56 D58 D60 D62 D64 D66 D68 D70 D72 D74 D76 D78 D80 D82 D84 D86 D88 D90 D92 D94 D96 D98 E00 E02 E04 E06 E08 E10 E12 E14 E16 E18 E20 E22 E24 E26 E28 E30 E32 E34 E36 E38 E40 E42 E44 E46 E48 E50 E52 E54 E56 E58 E60 E62 E64 E66 E68 E70 E72 E74 E76 E78 E80 E82 E84 E86 E88 E90 E92 E94 E96 E98 F00 F02 F04 F06 F08 F10 F12 F14 F16 F18 F20 F22 F24 F26 F28 F30 F32 F34 F36 F38 F40 F42 F44 F46 F48 F50 F52 F54 F56 F58 F60 F62 F64 F66 F68 F70 F72 F74 F76 F78 F80 F82 F84 F86 F88 F90 F92 F94 F96 F98 G00 G02 G04 G06 G08 G10 G12 G14 G16 G18 G20 G22 G24 G26 G28 G30 G32 G34 G36 G38 G40 G42 G44 G46 G48 G50 G52 G54 G56 G58 G60 G62 G64 G66 G68 G70 G72 G74 G76 G78 G80 G82 G84 G86 G88 G90 G92 G94 G96 G98 H00 H02 H04 H06 H08 H10 H12 H14 H16 H18 H20 H22 H24 H26 H28 H30 H32 H34 H36 H38 H40 H42 H44 H46 H48 H50 H52 H54 H56 H58 H60 H62 H64 H66 H68 H70 H72 H74 H76 H78 H80 H82 H84 H86 H88 H90 H92 H94 H96 H98 I00 I02 I04 I06 I08 I10 I12 I14 I16 I18 I20 I22 I24 I26 I28 I30 I32 I34 I36 I38 I40 I42 I44 I46 I48 I50 I52 I54 I56 I58 I60 I62 I64 I66 I68 I70 I72 I74 I76 I78 I80 I82 I84 I86 I88 I90 I92 I94 I96 I98 J00 J02 J04 J06 J08 J10 J12 J14 J16 J18 J20 J22 J24 J26 J28 J30 J32 J34 J36 J38 J40 J42 J44 J46 J48 J50 J52 J54 J56 J58 J60 J62 J64 J66 J68 J70 J72 J74 J76 J78 J80 J82 J84 J86 J88 J90 J92 J94 J96 J98 K00 K02 K04 K06 K08 K10 K12 K14 K16 K18 K20 K22 K24 K26 K28 K30 K32 K34 K36 K38 K40 K42 K44 K46 K48 K50 K52 K54 K56 K58 K60 K62 K64 K66 K68 K70 K72 K74 K76 K78 K80 K82 K84 K86 K88 K90 K92 K94 K96 K98 L00 L02 L04 L06 L08 L10 L12 L14 L16 L18 L20 L22 L24 L26 L28 L30 L32 L34 L36 L38 L40 L42 L44 L46 L48 L50 L52 L54 L56 L58 L60 L62 L64 L66 L68 L70 L72 L74 L76 L78 L80 L82 L84 L86 L88 L90 L92 L94 L96 L98 M00 M02 M04 M06 M08 M10 M12 M14 M16 M18 M20 M22 M24 M26 M28 M30 M32 M34 M36 M38 M40 M42 M44 M46 M48 M50 M52 M54 M56 M58 M60 M62 M64 M66 M68 M70 M72 M74 M76 M78 M80 M82 M84 M86 M88 M90 M92 M94 M96 M98 N00 N02 N04 N06 N08 N10 N12 N14 N16 N18 N20 N22 N24 N26 N28 N30 N32 N34 N36 N38 N40 N42 N44 N46 N48 N50 N52 N54 N56 N58 N60 N62 N64 N66 N68 N70 N72 N74 N76 N78 N80 N82 N84 N86 N88 N90 N92 N94 N96 N98 O00 O02 O04 O06 O08 O10 O12 O14 O16 O18 O20 O22 O24 O26 O28 O30 O32 O34 O36 O38 O40 O42 O44 O46 O48 O50 O52 O54 O56 O58 O60 O62 O64 O66 O68 O70 O72 O74 O76 O78 O80 O82 O84 O86 O88 O90 O92 O94 O96 O98 P00 P02 P04 P06 P08 P10 P12 P14 P16 P18 P20 P22 P24 P26 P28 P30 P32 P34 P36 P38 P40 P42 P44 P46 P48 P50 P52 P54 P56 P58 P60 P62 P64 P66 P68 P70 P72 P74 P76 P78 P80 P82 P84 P86 P88 P90 P92 P94 P96 P98 Q00 Q02 Q04 Q06 Q08 Q10 Q12 Q14 Q16 Q18 Q20 Q22 Q24 Q26 Q28 Q30 Q32 Q34 Q36 Q38 Q40 Q42 Q44 Q46 Q48 Q50 Q52 Q54 Q56 Q58 Q60 Q62 Q64 Q66 Q68 Q70 Q72 Q74 Q76 Q78 Q80 Q82 Q84 Q86 Q88 Q90 Q92 Q94 Q96 Q98 R00 R02 R04 R06 R08 R10 R12 R14 R16 R18 R20 R22 R24 R26 R28 R30 R32 R34 R36 R38 R40 R42 R44 R46 R48 R50 R52 R54 R56 R58 R60 R62 R64 R66 R68 R70 R72 R74 R76 R78 R80 R82 R84 R86 R88 R90 R92 R94 R96 R98 S00 S02 S04 S06 S08 S10 S12 S14 S16 S18 S20 S22 S24 S26 S28 S30 S32 S34 S36 S38 S40 S42 S44 S46 S48 S50 S52 S54 S56 S58 S60 S62 S64 S66 S68 S70 S72 S74 S76 S78 S80 S82 S84 S86 S88 S90 S92 S94 S96 S98 T00 T02 T04 T06 T08 T10 T12 T14 T16 T18 T20 T22 T24 T26 T28 T30 T32 T34 T36 T38 T40 T42 T44 T46 T48 T50 T52 T54 T56 T58 T60 T62 T64 T66 T68 T70 T72 T74 T76 T78 T80 T82 T84 T86 T88 T90 T92 T94 T96 T98 U00 U02 U04 U06 U08 U10 U12 U14 U16 U18 U20 U22 U24 U26 U28 U30 U32 U34 U36 U38 U40 U42 U44 U46 U48 U50 U52 U54 U56 U58 U60 U62 U64 U66 U68 U70 U72 U74 U76 U78 U80 U82 U84 U86 U88 U90 U92 U94 U96 U98 V00 V02 V04 V06 V08 V10 V12 V14 V16 V18 V20 V22 V24 V26 V28 V30 V32 V34 V36 V38 V40 V42 V44 V46 V48 V50 V52 V54 V56 V58 V60 V62 V64 V66 V68 V70 V72 V74 V76 V78 V80 V82 V84 V86 V88 V90 V92 V94 V96 V98 W00 W02 W04 W06 W08 W10 W12 W14 W16 W18 W20 W22 W24 W26 W28 W30 W32 W34 W36 W38 W40 W42 W44 W46 W48 W50 W52 W54 W56 W58 W60 W62 W64 W66 W68 W70 W72 W74 W76 W78 W80 W82 W84 W86 W88 W90 W92 W94 W96 W98 X00 X02 X04 X06 X08 X10 X12 X14 X16 X18 X20 X22 X24 X26 X28 X30 X32 X34 X36 X38 X40 X42 X44 X46 X48 X50 X52 X54 X56 X58 X60 X62 X64 X66 X68 X70 X72 X74 X76 X78 X80 X82 X84 X86 X88 X90 X92 X94 X96 X98 Y00 Y02 Y04 Y06 Y08 Y10 Y12 Y14 Y16 Y18 Y20 Y22 Y24 Y26 Y28 Y30 Y32 Y34 Y36 Y38 Y40 Y42 Y44 Y46 Y48 Y50 Y52 Y54 Y56 Y58 Y60 Y62 Y64 Y66 Y68 Y70 Y72 Y74 Y76 Y78 Y80 Y82 Y84 Y86 Y88 Y90 Y92 Y94 Y96 Y98 Z00 Z02 Z04 Z06 Z08 Z10 Z12 Z14 Z16 Z18 Z20 Z22 Z24 Z26 Z28 Z30 Z32 Z34 Z36 Z38 Z40 Z42 Z44 Z46 Z48 Z50 Z52 Z54 Z56 Z58 Z60 Z62 Z64 Z66 Z68 Z70 Z72 Z74 Z76 Z78 Z80 Z82 Z84 Z86 Z88 Z90 Z92 Z94 Z96 Z98

SCALE
Hor. 1"=50'
Vert 1"=10'

6" San. Sewer
Inv. El. 6016.4
6" Sanitary Sewer
Inv. El. 6017.3
4" Gas line
6" Sanitary Sewer
Inv. El. 6016.4
4" Gas
10" Water
8" Water line
6" San. Sewer
Inv. El. 6023.50
Water
Water
204 Lin. Ft. of 30" VCP @ 3.00% Grade
402 Lin. Ft. of 30" VCP @ 2.62% Grade
442 Lin. Ft. of 30" VCP @ 1.20% Grade
412 Lin. Ft. of 24" VCP @ 0.20% Grade

BLACK & VEATCH, CONSULTING ENGINEERS, KANSAS CITY, MO. 1951

PLATE 1 - PLAN - PROFILE G. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

COLORADO SPRINGS, COLORADO

INTERCEPTING SEWER CONTRACT 3

SHEET 5 OF 13

Intercept existing 8" sanitary sewer from East, Plug existing 8" sanitary sewer to West. Existing M.H. to be removed as required for new constr.

Sta 63+01 Drop MH

Start of Asphalt-mat surfacing

8" Water line

Existing 6" san. sewer to be reconstructed under Contract 3 to existing 8" san. sewer west of new M.H. @ Sta 63+01 or to new MH @ Sta 63+01.

8" San. Sewer

8" Water line

16" Gas line (H.P.)

10" Gas line (H.P.)

432 410 431 429 427 425 417

Sta. 65+60 Std. M.H.

Gas Reg. MH

Sta. 68+20 Δ = 0°32' Lt. Std. M.H.

Sta. 70+95 Std. M.H.

Asphalt Mat surface

New 30" Sanitary Sewer, Line 3

10" H.P. Gas line

8" Water line

Sta. 73+50 Δ = 0°35' Rt. Std. M.H.

Sta. 76+15 Std. M.H.

16" Gas Line

Ck. 5.58 cfs

12" Storm Sewer

Telephone Conduit

CIMARRON

COSTILLA

Asphalt Covered sumpy

VERMIJO

STA 65+00

STA 70+00

STA 75+00

Scale:
Hor 1"=50'
Vert 1"=10'

519 LIN. FT. OF 30" RCP @ 1.25% GRADE

630 LIN. FT. OF 30" RCP @ 0.20% GRADE

730 LIN. FT. OF 27" RCP @ 0.16% GRADE

Bottom of Conc. encasement

6000
5990
5980

STA 61+00 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77

PLAN
SURVEYED
DRAWN
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
DRAWN
NOTE BOOK
NO.
XINGS CHECKED
P. M.'S NOTED
STRUCTURE NOTATIONS DRAWN
BY
DATE

Revised R.R. crossing
Revised
Alignment Change
Eliminate 2 sta eq. tangent
Added 2 sta eq. tangent

BLACK & VEATCH, CONSULTING ENGINEERS, KANSAS CITY, MO. 1951

PLATE 1 - PLAN - PROFILE, G. P. R. & R. E. STANDARD
KELLOGG & ESSER CO., NEW YORK

COLORADO SPRINGS, COLORADO

INTERCEPTING SEWER CONTRACT 3

SHEET 6 OF 13