FROM:
HAROLD GREEN DR
TO:
0.5 MI SOUTH OF FM 973

PRELIM SCHEMATIC
FM 973 AT SH 71

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Texas Department of Transportation

PROPOSED PROFILES

BEGIN
ROLL

SHEET
2 OF 3

TEXAS DEPARTMENT OF TRANSPORTATION
PRELIMINARY SCHEMATIC LAYOUT
FM 973
TRAVIS COUNTY

LIMITS: HAROLD GREEN DR TO
APPROX. 0.5 MI SOUTH OF SH 71

CSJ: 1200-03-033 SH71
1200-03-028 FM973

ROADWAY LENGTH: 15064.31 FT = 2.853 MI
BRIDGE LENGTH: 520.00 FT = 0.098 MI
TOTAL LENGTH: 15584.31 FT = 2.951 MI

NORTH AUSTIN AREA
ENGINEER'S OFFICE

DESIGN SPEED:

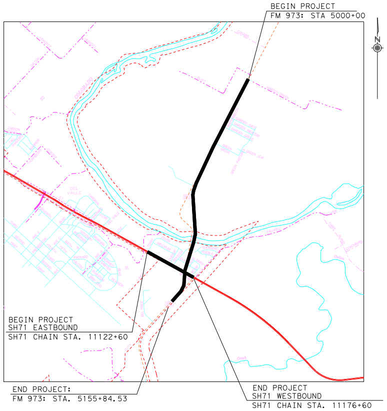
FM 973: 50 MPH
INTERSECTING ROADS: 30 MPH
SH 71 FRONTAGE: 45 MPH

CURRENT ADT (2007): 13,400

PROJECTED ADT (2027): 22,800

FUNCTIONAL CLASSIFICATION: MAJOR ARTERIAL

LOCATION MAP


BEGIN PROJECT
FM 973: STA 5000+00
N
BEGIN PROJECT
SH71 EASTBOUND
SH71 CHAIN STA. 11122+60
END PROJECT:
FM 973: STA. 5155+84.53
END PROJECT
SH71 WESTBOUND
SH71 CHAIN STA. 11176+60

EQUATION:
Sta 11158+77.46 BK =
Sta 11158+95.81 AH

PRELIMINARY
FOR REVIEW ONLY

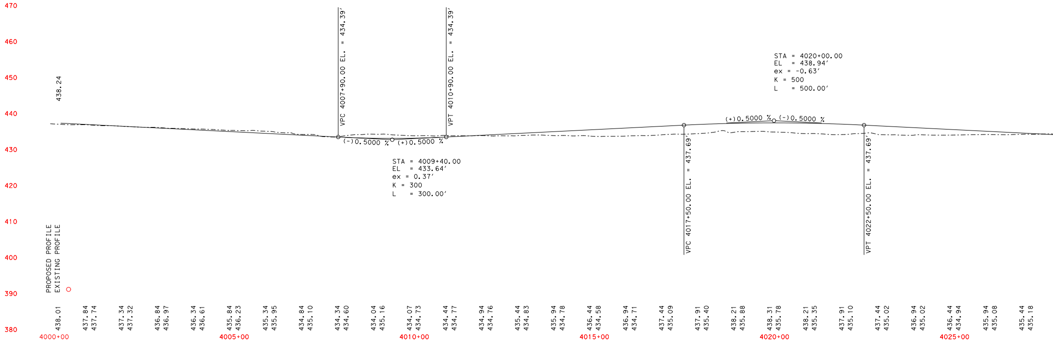
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:

CATHLEEN A. KRATZ	96622	06/09/11
NAME	P.E.#	DATE

PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 100'

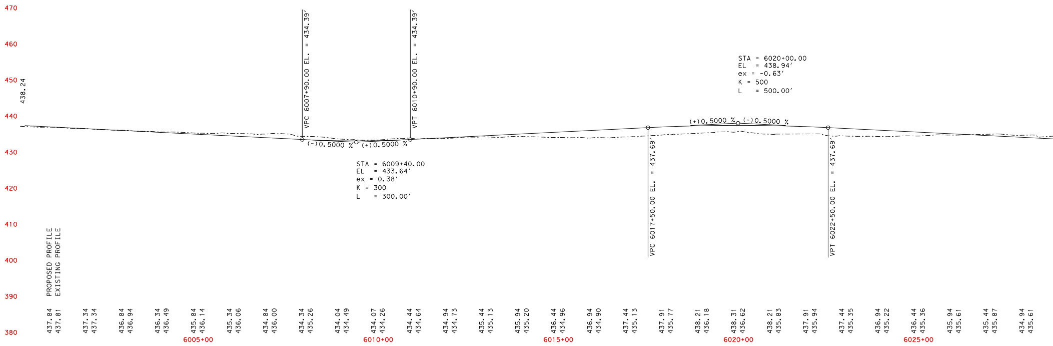
PROPOSED SOUTH

CHAIN = FM973SB
PROFILE = FM973SB
EX-PROFILE = FM973SBEX


470
460
450
440
430
420
410
400
390
380
438.24
PROPOSED PROFILE
EXISTING PROFILE
VPC 4007+90.00 EL. = 434.39'
VPT 4010+90.00 EL. = 434.39'
(-)0.5000 %
(+)0.5000 %
STA = 4009+40.00
EL = 433.64'
ex = 0.37'
K = 300
L = 300.00'
STA = 4020+00.00
EL = 438.94'
ex = -0.63'
K = 500
L = 500.00'
(+)0.5000 %
(-)0.5000 %
VPC 4017+50.00 EL. = 437.69'
VPT 4022+50.00 EL. = 437.69'
438.01
437.84 437.74
437.34 437.32
436.84 436.97
436.34 436.61
435.84 436.23
435.34 435.95
434.84 435.10
434.34 434.60
434.04 435.16
434.07 434.73
434.44 434.77
434.94 434.76
435.44 434.83
435.94 434.78
436.44 434.58
436.94 434.71
437.44 435.09
437.91 435.40
438.21 435.88
438.31 435.78
438.21 435.35
437.91 435.10
437.44 435.02
436.94 435.02
436.44 434.94
435.94 435.08
435.44 435.18
4000+00
4005+00
4010+00
4015+00
4020+00
4025+00

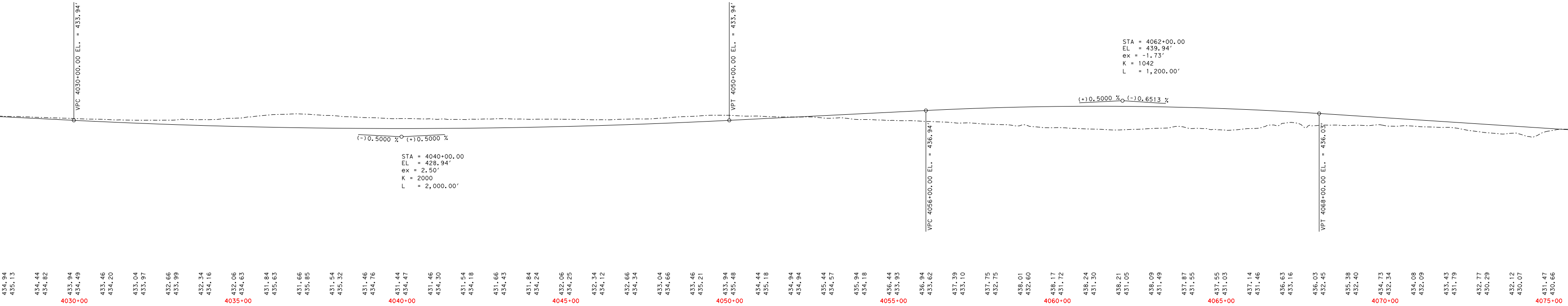
PROPOSED NORTH

CHAIN = FM973NB
PROFILE = FM973NB
EX-PROFILE = FM973NBEX

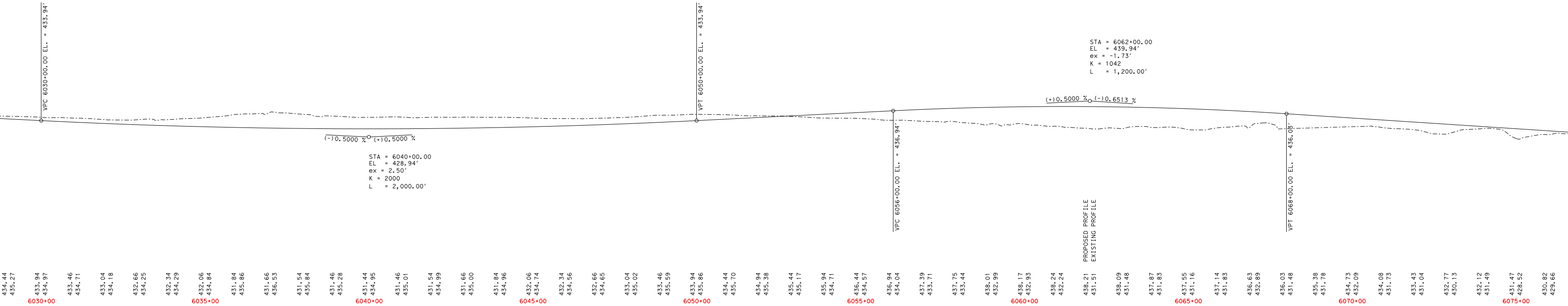

470
460
450
440
430
420
410
400
390
380
438.24
PROPOSED PROFILE
EXISTING PROFILE
VPC 6007+90.00 EL. = 434.39'
VPT 6010+90.00 EL. = 434.39'
(-)0.5000 %
(+)0.5000 %
STA = 6009+40.00
EL = 433.64'
ex = 0.38'
K = 300
L = 300.00'
STA = 6020+00.00
EL = 438.94'
ex = -0.63'
K = 500
L = 500.00'
(+)0.5000 %
(-)0.5000 %
VPC 6017+50.00 EL. = 437.69'
VPT 6022+50.00 EL. = 437.69'
437.84 437.81
437.34 437.34
436.84 436.94
436.34 436.49
435.84 436.14
435.34 436.06
434.84 436.00
434.34 435.26
434.04 434.49
434.07 434.26
434.44 434.64
434.94 434.73
435.44 435.13
435.94 435.20
436.44 434.96
436.94 434.90
437.44 435.13
437.91 435.77
438.21 436.18
438.31 436.62
438.21 435.83
437.91 435.94
437.44 435.35
436.94 435.22
436.44 435.36
435.94 435.61
435.44 435.87
434.94 435.61
6005+00
6010+00
6015+00
6020+00
6025+00

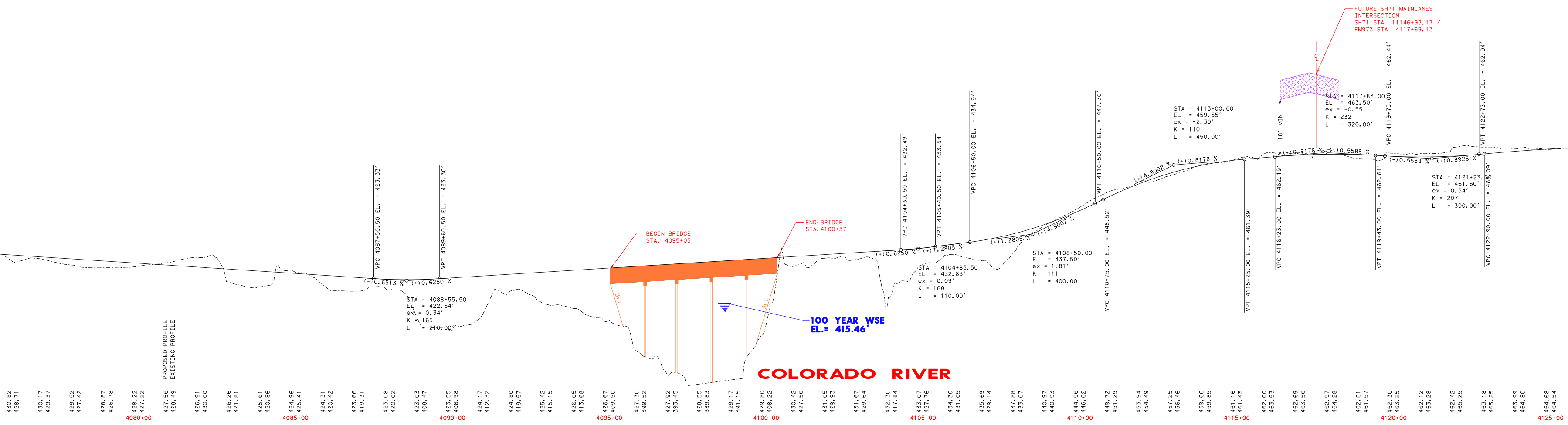
PRELIMINARY FM973 SCHEMATIC
SUBJECT TO CHANGE

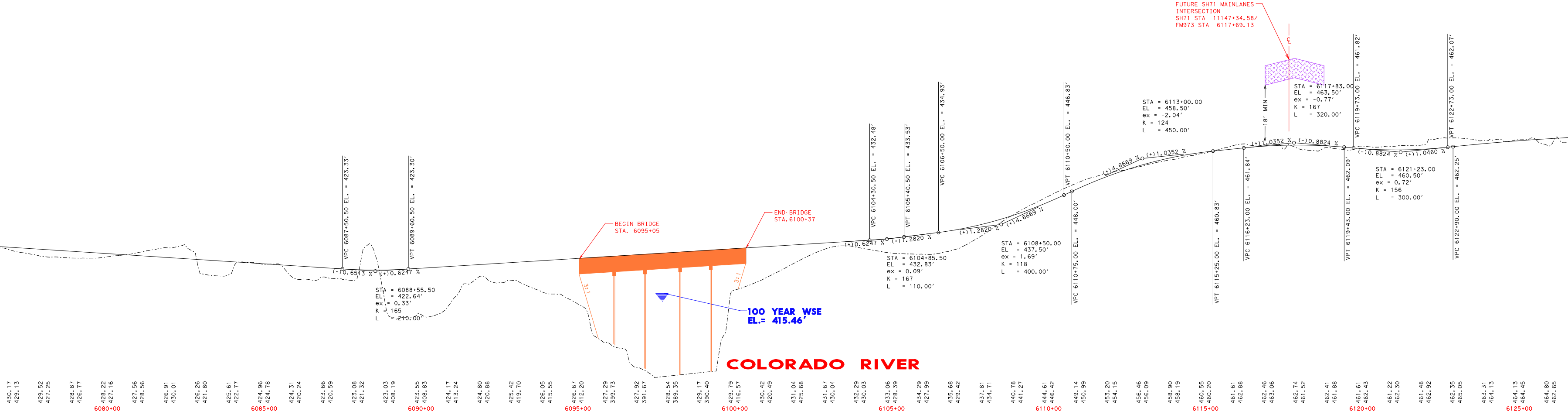
PROFILE

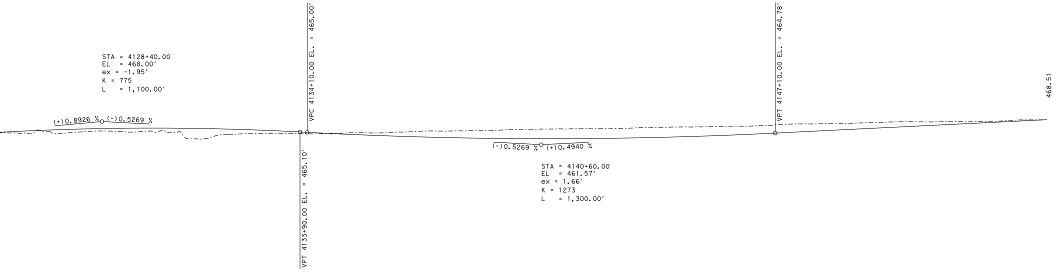

VPC 4030+00.00 EL. = 433.94'
VPT 4050+00.00 EL. = 433.94'
(-)0.5000 % (+)0.5000 %
STA = 4040+00.00
EL = 428.94'
ex = 2.50'
K = 2000
L = 2,000.00'
STA = 4062+00.00
EL = 439.94'
ex = -1.73'
K = 1042
L = 1,200.00'
(+)0.5000 % (-)0.6513 %
VPC 4056+00.00 EL. = 436.94'
VPT 4068+00.00 EL. = 436.03'
434.94 435.13
434.44 434.82
433.94 434.49
433.46 434.20
433.04 433.97
432.66 433.99
432.34 434.16
432.06 434.63
431.84 435.63
431.66 435.85
431.54 435.32
431.46 434.76
431.44 434.47
431.46 434.30
431.54 434.18
431.66 434.43
431.84 434.24
432.06 434.25
432.34 434.12
432.66 434.34
433.04 434.66
433.46 435.21
433.94 435.48
434.44 435.18
434.94 434.94
435.44 434.57
435.94 434.18
436.44 433.93
436.94 433.62
437.39 433.10
437.75 432.75
438.01 432.60
438.17 431.72
438.24 431.30
438.21 431.05
438.09 431.49
437.87 431.55
437.55 431.03
437.14 431.46
436.63 433.16
436.03 432.45
435.38 432.40
434.73 432.34
434.08 432.09
433.43 431.79
432.77 430.29
432.12 430.07
431.47 430.66
4030+00
4035+00
4040+00
4045+00
4050+00
4055+00
4060+00
4065+00
4070+00
4075+00

PROFILE

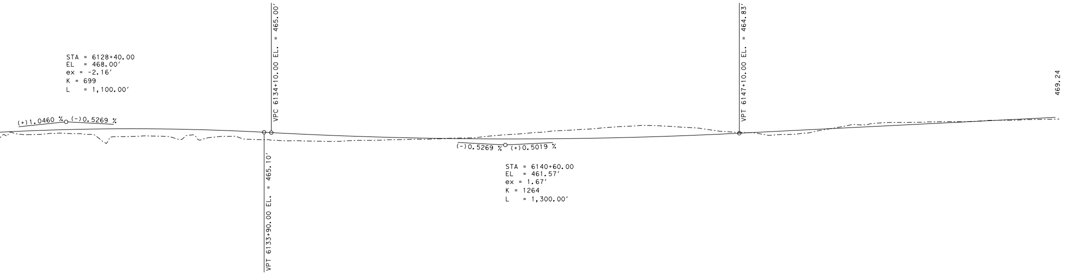

VPC 6030+00.00 EL. = 433.94'
VPT 6050+00.00 EL. = 433.94'
(-)0.5000 % (+)0.5000 %
STA = 6040+00.00
EL = 428.94'
ex = 2.50'
K = 2000
L = 2,000.00'
STA = 6062+00.00
EL = 439.94'
ex = -1.73'
K = 1042
L = 1,200.00'
(+)0.5000 % (-)0.6513 %
VPC 6056+00.00 EL. = 436.94'
VPT 6068+00.00 EL. = 436.03'
PROPOSED PROFILE
EXISTING PROFILE
434.44 435.27
433.94 434.97
433.46 434.71
433.04 434.18
432.66 434.25
432.34 434.29
432.06 434.84
431.84 435.86
431.66 436.53
431.54 435.84
431.46 435.28
431.44 434.95
431.46 435.01
431.54 434.99
431.66 435.00
431.84 434.96
432.06 434.74
432.34 434.56
432.66 434.65
433.04 435.02
433.46 435.59
433.94 435.86
434.44 435.70
434.94 435.38
435.44 435.17
435.94 434.71
436.44 434.57
436.94 434.04
437.39 433.71
437.75 433.44
438.01 432.99
438.17 432.93
438.24 432.24
438.21 431.51
438.09 431.48
437.87 431.83
437.55 431.16
437.14 431.83
436.63 432.89
436.03 431.48
435.38 431.78
434.73 432.09
434.08 431.73
433.43 431.04
432.77 430.13
432.12 431.49
431.47 428.52
430.82 429.66
6030+00
6035+00
6040+00
6045+00
6050+00
6055+00
6060+00
6065+00
6070+00
6075+00


FUTURE SH71 MAINLANES
INTERSECTION
SH71 STA 11146+93.17 /
FM973 STA 4117+69.13
℄
18' MIN
VPC 4087+50.50 EL. = 423.33'
VPT 4089+60.50 EL. = 423.30'
(-)0.6513 %
(+)0.6250 %
STA = 4088+55.50
EL = 422.64'
ex = 0.34'
K = 165
L = 210.00'
BEGIN BRIDGE
STA. 4095+05
END BRIDGE
STA.4100+37
3:1
3:1
100 YEAR WSE
EL.= 415.46'
COLORADO RIVER
PROPOSED PROFILE
EXISTING PROFILE
VPC 4104+30.50 EL. = 432.49'
VPT 4105+40.50 EL. = 433.54'
VPC 4106+50.00 EL. = 434.94'
(+)0.6250 %
(+)1.2805 %
STA = 4104+85.50
EL = 432.83'
ex = 0.09'
K = 168
L = 110.00'
(+)1.2805 %
(+)4.9002 %
STA = 4108+50.00
EL = 437.50'
ex = 1.81'
K = 111
L = 400.00'
VPT 4110+50.00 EL. = 447.30'
VPC 4110+75.00 EL. = 448.52'
(+)4.9002 %
(+)0.8178 %
STA = 4113+00.00
EL = 459.55'
ex = -2.30'
K = 110
L = 450.00'
VPT 4115+25.00 EL. = 461.39'
VPC 4116+23.00 EL. = 462.19'
(+)0.8178 %
(-)0.5588 %
STA = 4117+83.00
EL = 463.50'
ex = -0.55'
K = 232
L = 320.00'
VPT 4119+43.00 EL. = 462.61'
VPC 4119+73.00 EL. = 462.44'
(-)0.5588 %
(+)0.8926 %
STA = 4121+23.00
EL = 461.60'
ex = 0.54'
K = 207
L = 300.00'
VPC 4122+90.00 EL. = 462.09'
VPT 4122+73.00 EL. = 462.94'
430.82 428.71
430.17 429.37
429.52 427.42
428.87 426.78
428.22 427.22
4080+00
427.56 428.49
426.91 430.00
426.26 421.81
425.61 420.86
424.96 425.41
4085+00
424.31 420.42
423.66 419.31
423.08 420.02
423.03 408.47
423.55 406.98
4090+00
424.17 412.32
424.80 419.57
425.42 415.15
426.05 413.68
426.67 409.90
4095+00
427.30 399.52
427.92 393.45
428.55 389.83
429.17 391.15
429.80 408.22
4100+00
430.42 427.56
431.05 429.93
431.67 429.64
432.30 417.84
433.07 427.76
4105+00
434.30 431.05
435.69 429.14
437.88 433.07
440.97 440.93
444.96 446.02
4110+00
449.72 451.29
453.94 454.49
457.25 456.46
459.66 459.85
461.16 461.43
4115+00
462.00 463.53
462.69 463.56
462.97 464.28
462.81 461.57
462.30 463.25
4120+00
462.12 463.28
462.42 465.25
463.18 465.25
463.99 464.80
464.68 464.54
4125+00


FUTURE SH71 MAINLANES
INTERSECTION
SH71 STA 11147+34.58/
FM973 STA 6117+69.13
℄
18' MIN
VPC 6087+50.50 EL. = 423.33'
VPT 6089+60.50 EL. = 423.30'
(-)0.6513 %
(+)0.6247 %
STA = 6088+55.50
EL = 422.64'
ex = 0.33'
K = 165
L = 210.00'
BEGIN BRIDGE
STA. 6095+05
END BRIDGE
STA.6100+37
3:1
3:1
100 YEAR WSE
EL.= 415.46'
COLORADO RIVER
VPC 6104+30.50 EL. = 432.48'
VPT 6105+40.50 EL. = 433.53'
VPC 6106+50.00 EL. = 434.93'
(+)0.6247 %
(+)1.2820 %
STA = 6104+85.50
EL = 432.83'
ex = 0.09'
K = 167
L = 110.00'
(+)1.2820 %
(+)4.6669 %
STA = 6108+50.00
EL = 437.50'
ex = 1.69'
K = 118
L = 400.00'
VPT 6110+50.00 EL. = 446.83'
VPC 6110+75.00 EL. = 448.00'
(+)4.6669 %
(+)1.0352 %
STA = 6113+00.00
EL = 458.50'
ex = -2.04'
K = 124
L = 450.00'
VPT 6115+25.00 EL. = 460.83'
VPC 6116+23.00 EL. = 461.84'
(+)1.0352 %
(-)0.8824 %
STA = 6117+83.00
EL = 463.50'
ex = -0.77'
K = 167
L = 320.00'
VPT 6119+43.00 EL. = 462.09'
VPC 6119+73.00 EL. = 461.82'
(-)0.8824 %
(+)1.0460 %
STA = 6121+23.00
EL = 460.50'
ex = 0.72'
K = 156
L = 300.00'
VPC 6122+90.00 EL. = 462.25'
VPT 6122+73.00 EL. = 462.07'
430.17 429.13
429.52 427.25
428.87 426.77
428.22 427.16
6080+00
427.56 428.56
426.91 430.01
426.26 421.80
425.61 422.77
424.96 424.78
6085+00
424.31 420.24
423.66 420.59
423.08 421.32
423.03 408.19
423.55 408.83
6090+00
424.17 413.24
424.80 420.88
425.42 419.70
426.05 415.55
426.67 412.20
6095+00
427.29 399.73
427.92 391.67
428.54 389.35
429.17 390.40
429.79 416.57
6100+00
430.42 420.49
431.04 425.68
431.67 430.04
432.29 430.03
433.06 428.39
6105+00
434.29 427.99
435.68 429.42
437.81 434.71
440.78 441.27
444.61 446.42
6110+00
449.14 450.99
453.20 454.15
456.46 456.09
458.90 458.19
460.55 460.20
6115+00
461.61 462.88
462.46 463.06
462.74 461.52
462.41 461.88
461.61 462.43
6120+00
461.22 462.30
461.48 462.92
462.35 465.05
463.31 464.13
464.13 464.45
6125+00
464.80 462.65


STA = 4128+40.00
EL = 468.00'
ex = -1.95'
K = 775
L = 1,100.00'
(+)0.8926 %
(-)0.5269 %
VPC 4134+10.00 EL. = 465.00'
VPT 4133+90.00 EL. = 465.10'
(-)0.5269 %
(+)0.4940 %
STA = 4140+60.00
EL = 461.57'
ex = 1.66'
K = 1273
L = 1,300.00'
VPT 4147+10.00 EL. = 464.78'
468.51

	PROPOSED PROFILE	EXISTING PROFILE
	465.24	464.86
	465.67	464.87
	465.96	465.24
	466.13	465.16
4130+00	466.18	465.31
	466.09	463.19
	465.87	464.46
	465.52	464.70
	465.05	464.62
4135+00	464.55	464.75
	464.14	464.83
	463.80	465.15
	463.54	465.34
	463.36	465.47
4140+00	463.26	465.81
	463.23	465.94
	463.28	465.97
	463.42	466.13
	463.63	466.39
4145+00	463.92	466.51
	464.29	466.72
	464.73	466.96
	465.23	467.33
	465.72	467.48
4150+00	466.22	467.77
	466.71	467.92
	467.20	467.96
	467.70	468.04
	468.19	468.45


STA = 6128+40.00
EL = 468.00'
ex = -2.16'
K = 699
L = 1,100.00'
(+)1.0460 %
(-)0.5269 %
VPC 6134+10.00 EL. = 465.00'
VPT 6133+90.00 EL. = 465.10'
(-)0.5269 %
(+)0.5019 %
STA = 6140+60.00
EL = 461.57'
ex = 1.67'
K = 1264
L = 1,300.00'
VPT 6147+10.00 EL. = 464.83'
469.24

	PROPOSED PROFILE	EXISTING PROFILE
	465.33	464.71
	465.72	464.79
	465.97	464.51
6130+00	466.07	463.89
	466.03	464.02
	465.85	463.95
	465.52	463.97
	465.05	463.04
6135+00	464.55	462.69
	464.14	462.60
	463.80	462.88
	463.54	463.15
	463.37	463.40
6140+00	463.27	463.87
	463.25	464.65
	463.30	465.50
	463.44	466.02
	463.66	466.77
6145+00	463.96	466.82
	464.33	466.22
	464.79	465.10
	465.29	464.30
	465.79	464.91
6150+00	466.29	466.76
	466.79	467.68
	467.29	467.88
	467.80	468.05
	468.30	468.36
6155+00	468.80	468.57

FROM:
HAROLD GREEN DR
TO:
0.5 MI SOUTH OF SH 71

PRELIM SCHEMATIC
FM 973 AT SH 71

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PROPOSED PROFILES

END ROLL

SHEET 2 OF 3

$FILE$
$DATE$
$TIME$

$FILE$