

J:\PROJECTS\2018\1801010315_COW_2ND ST. BRIDGE AT BROOKSIDE\180316 CAD\SHS\06 CIVIL\PAV1815_COW.DWG
 PLOTTED: Friday, July 26, 2019 @ 09:21AM

CONTROL POINT #217
 1. CP / EIBC #5 MKEC DESIGN POINT
 2. STA. 10+24.23 17.76' LT.
 3. N 1687580.08 E 1668886.90
 4. ELEV. 1358.12

CONTROL POINT #302
 1. CP / IBSC #302 EL=1358.70
 2. STA. 09+59.02 44.10' LT.
 3. N 1687605.60 E 1668821.37
 4. ELEV. 1358.70

BENCHMARK POINT
 1. BM / SQR CUT 1357.67
 2. STA. 10+39.35 15.43PS
 , RT.
 3. N 1687547.1 E 1668902.4
 4. ELEV. 1357.67

DRAINAGE DATA

Drainage Area ----- 1.0 Sq. Mi.
 Design Frequency ----- 100 Years
 Design Discharge ----- 570 cfs
 Design High Water Elevation ----- 1357.42

Overtopping Elevation ----- 1357.70
 Overtopping Discharge ----- 690 cfs
 Overtopping Frequency ----- >500 Years

Historic High Water Elevation ----- Unknown
 Estimated Ordinary High Water Discharge ----- 570 cfs
 Estimated Ordinary High Water Elevation ----- 1357.15

REMOVAL OF EXISTING STRUCTURE: The Contractor shall remove the existing concrete RFB and wings. All materials shall become the property of the Contractor and shall be removed from the project site by the Contractor.

DESIGN SPECIFICATIONS:

AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING: HL93

UNIT STRESSES: Grade 4.0 Concrete: $f'_c = 4,000$ p.s.i.
 Reinforcing Steel: $f_y = 60,000$ p.s.i.

NOTES:

1. Cast-In-Place and Pre-Cast construction allowed. End Sections shall be Cast-In-Place only in accordance with these plans.
2. Structure will require special hubguard and wingwalls.
3. Backfill at outside barrel walls shall be placed in lifts not exceeding 0'-6" and the difference in elevation of the two backfilling operations shall not exceed 1'-0".
4. It is the responsibility of the Contractor to provide Temporary Shoring Plans bearing the seal of a licensed Professional Engineer in the state of Kansas.



**CONSTRUCTION PLANS FOR
 2ND STREET BRIDGE AT BROOKSIDE
 WICHITA, KS**

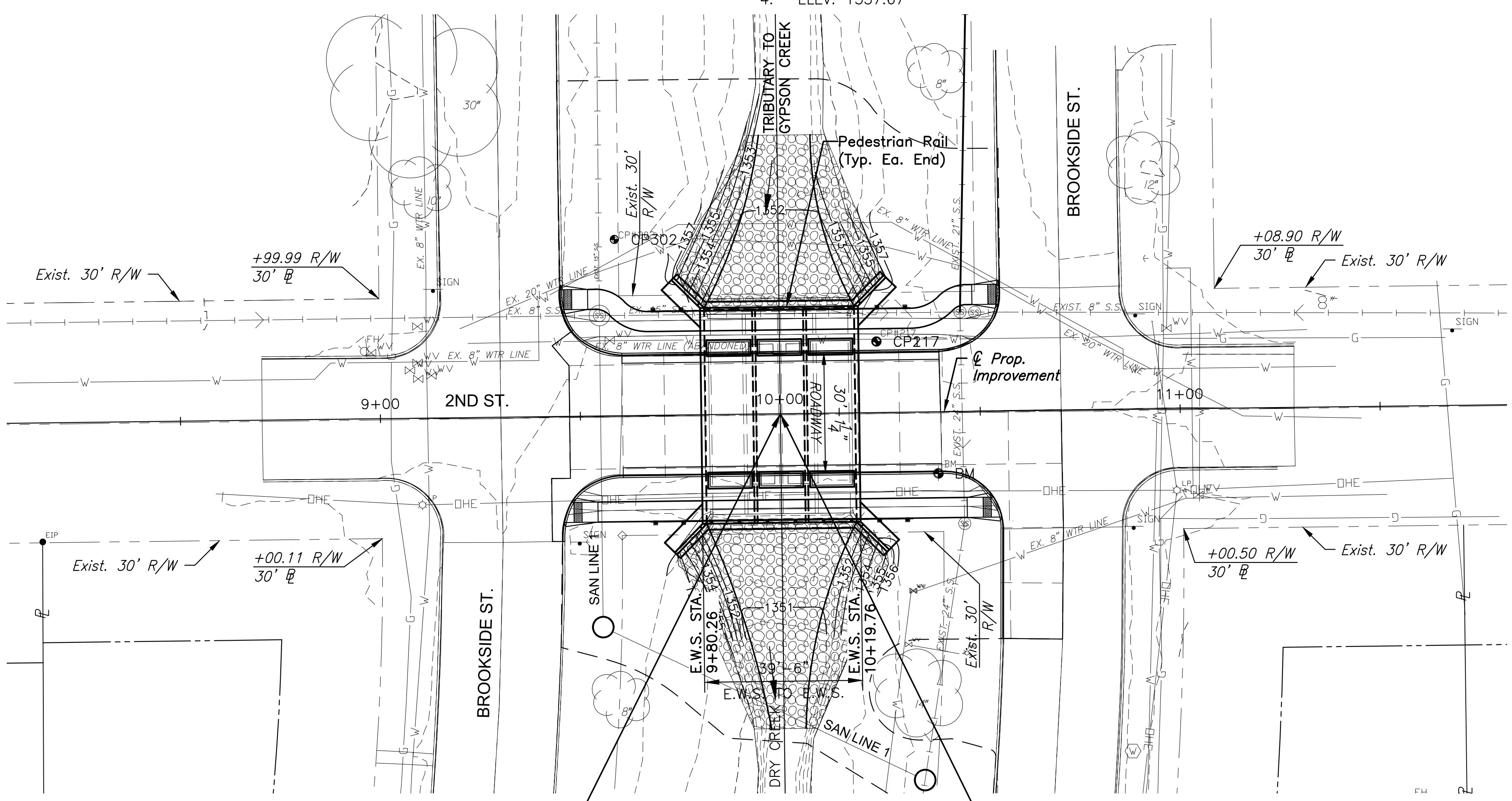
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BRIDGE CONTOUR MAP

PROJECT NO.	472-85435	
DATE	JULY 2019	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
JRA	BKS	JRA

NO.	REVISION	DATE

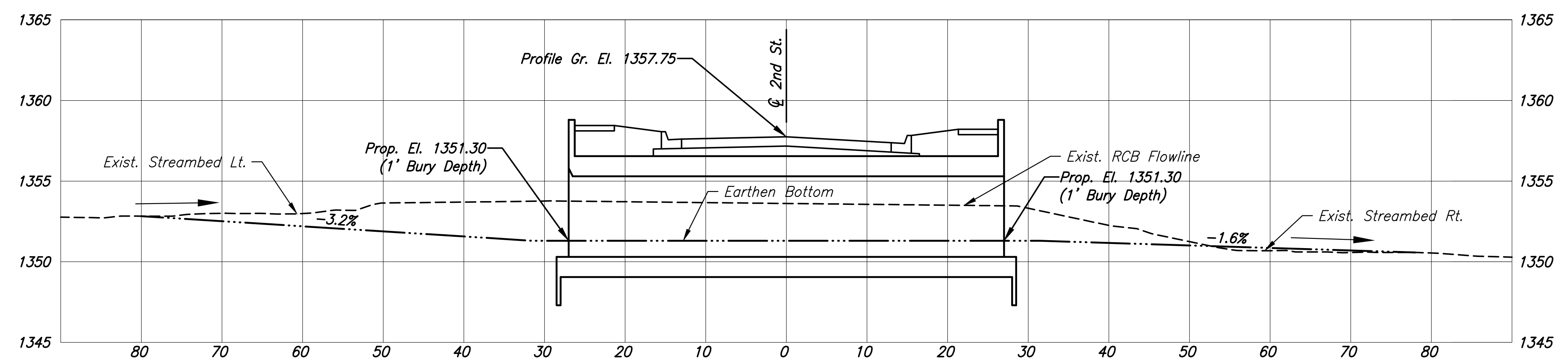
SHEET NO.
 20 OF 48



STA. 10+00.00 Remove
 Br. No. 5304008700DC180
 4-8'x3'x50' RCB
 30'-0" Roadway

PLAN

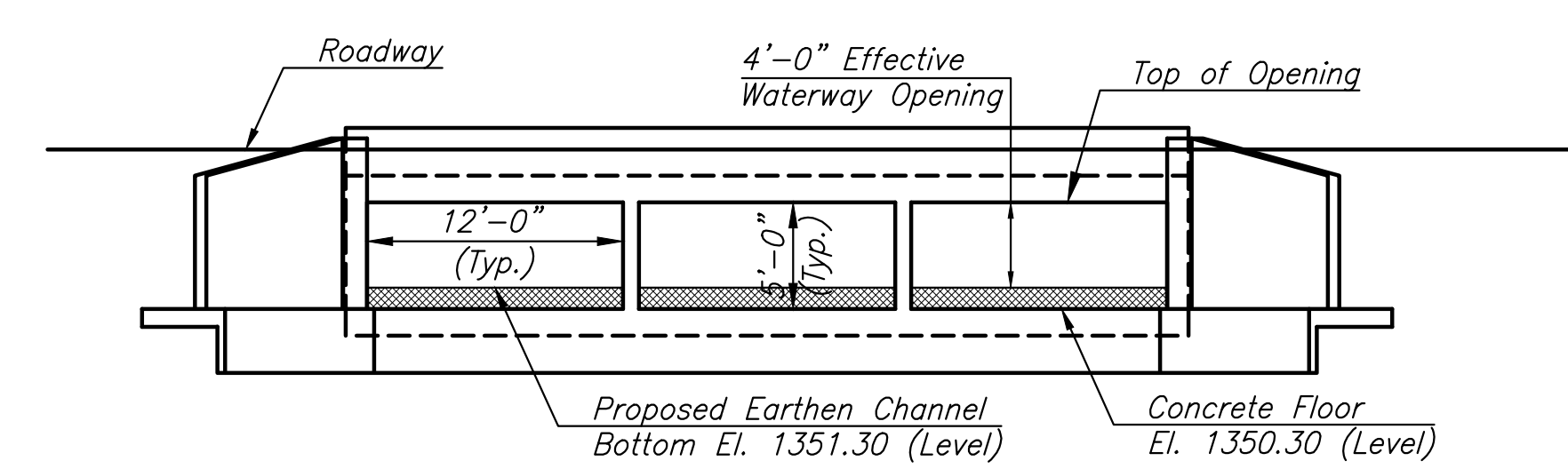
STA. 10+00.00 Const.
 Br. No. 5304008700DC181
 3-12'x5'x54' RCBB
 30'-0" Roadway



PROPOSED BRIDGE SECTION AND CHANNEL PROFILE

LRFD Rating Factors		
Rating	Inventory	Operating
Design Load		
HL-93 Loading	1.18	1.53

2017 Manual for Bridge Evaluation



PROPOSED RCBB WATERWAY OPENING

Note: Bottom of RCBB will be buried 1' below the proposed stream channel bottom as required by the Kansas Department of Wildlife, Parks and Tourism.