OTTAWA COUNTY	OHIO
OTT - 19 - 3.18	FHWA REGION 5
	FEDERAL PROJECT

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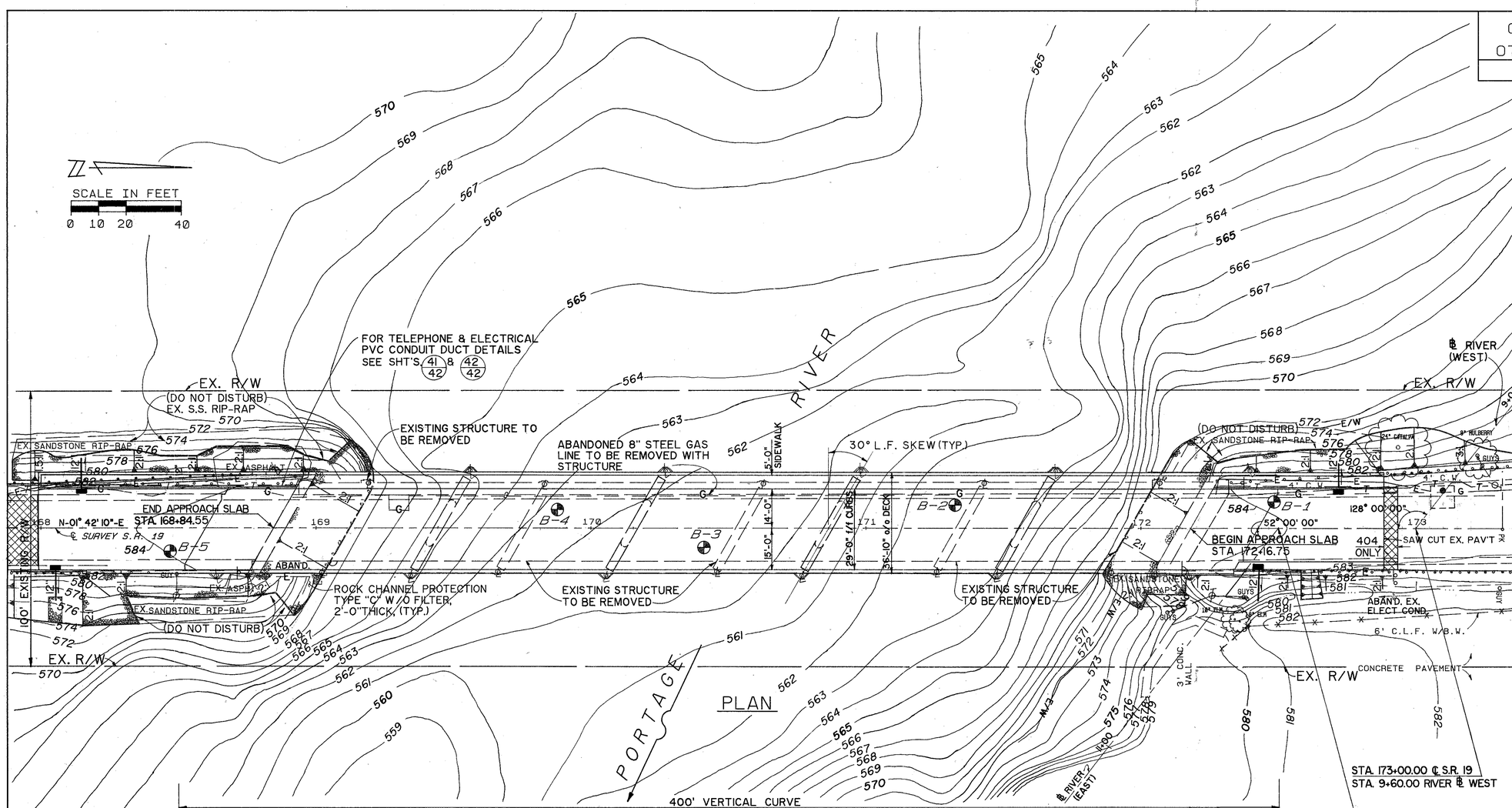


NOTE: EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS

* DENOTES APPROXIMATE ELEV. FOR LIMITS OF EXIST. PIER REMOVAL

** DENOTES APPROXIMATE ELEV. FOR LIMITS OF EXIST. ABUT. REMOVAL

REVIEWED BY BURGESS & NIPLE, LTD.
S.A.N 1-10-92

NOTE: FOR ADDITIONAL DETAILS ON RIVER ℄ SEE SHEET 10 OF 42

A.D.T.

CURRENT A.D.T. (1989)_____4080
DESIGN YEAR A.D.T.T. (2009)_____ 280
DESIGN YEAR A.D.T.(2009)_____4900

HYDRAULIC DATA

DRAINAGE AREA: 525 SQ. MILES

CHANNEL SLOPE: .00063 FT./FT.

25 YEAR DESIGN DATA

Q_{25} = 15,290 cfs
VELOCITY = 4.2 fps
DEPTH OF FLOW = 16.8 ft
HIGH WATER ELEVATION = 577.8

100 YEAR CHECK DATA

Q_{100} = 18,800 cfs
VELOCITY = 4.6 fps
DEPTH OF FLOW = 18.7 ft
HIGH WATER ELEVATION = 579.7

EXISTING STRUCTURE

TYPE: 4 SPAN CONTINOUS STEEL BEAM BRIDGE ON FULL HEIGHT U-TYPE ABUTMENTS AND WALL TYPE PIERS ON CONCRETE. PIER PEDESTALS.
SPAN: 64.00'-80.00'-80.00'-64.00'(C/C BEARING)
ROADWAY WIDTH: 24'-0" f/f 3'-0" CURBS
ALIGNMENT: TANGENT
SKEW: 30 DEGREES L.F.
WEARING SURFACE: ASPHALT CONCRETE
APPROACH SLABS: 25'-0" ±
CONDITION: FAIR
DATE CONSTRUCTED: 1932
LOADING: H-15
S.F.N.: 6200877

PROPOSED STRUCTURE

TYPE: CONTINOUS COMPOSITE STEEL BEAM BRIDGE WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE.

SPANS: 57'-0", 3 @ 71'-0", 57'-0" c/c BEARINGS

ROADWAY: 29'-0"(f/f CURB), SIDEWALK: 1 @ 5'-0" LT
SKEW: 30 DEGREES L.F.
LOADING: HS20-44, CASE II & ALTERNATE MILITARY LOADING
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-81 (LENGTH=25')
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
CROWN: 3/16" / FT.

SITE BENCH MARK

TOP OF 1" DIA. THREADED ANCHOR BOLT IN END GUARD RAIL POST, 480'± SOUTHERLY OF BRIDGE STRUCTURE & WESTERLY OF ℄ S.R. 19
ELEVATION = 584.16

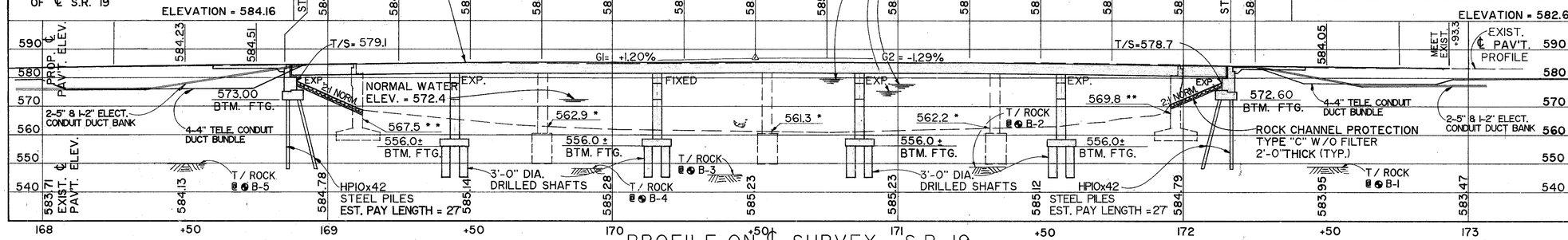
SITE BENCH MARK

CUT "X" ON INLET CASTING OF CATCH BASIN 35'± SOUTHERLY OF "DODGE" DEALER BLDG.; WESTERLY SIDE S.R. 19
ELEVATION = 582.64

BRIDGE LIMITS 332.2'

PROP. ℄ SURVEY PROFILE

100 YR. HIGHWATER ELEVATION = 579.7
ORDINARY HIGHWATER ELEVATION = 575.3
25 YR. DESIGN HIGHWATER ELEVATION = 577.8



PROFILE ON ℄ SURVEY S.R. 19

McDONNELL PROUDFOOT & ASSOCIATES inc.
engineers planners surveyors

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SITE PLAN
BRIDGE NO. OTT-19-0323
OVER PORTAGE RIVER
OTTAWA COUNTY STA. 168+84.55
STA. 172+16.75

PRESENT TOPOGRAPHY		PROPOSED WORK				
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED	DATE
McDONNELL PROUDFOOT	McDONNELL PROUDFOOT	RXN	DBG	THY		11-10-89