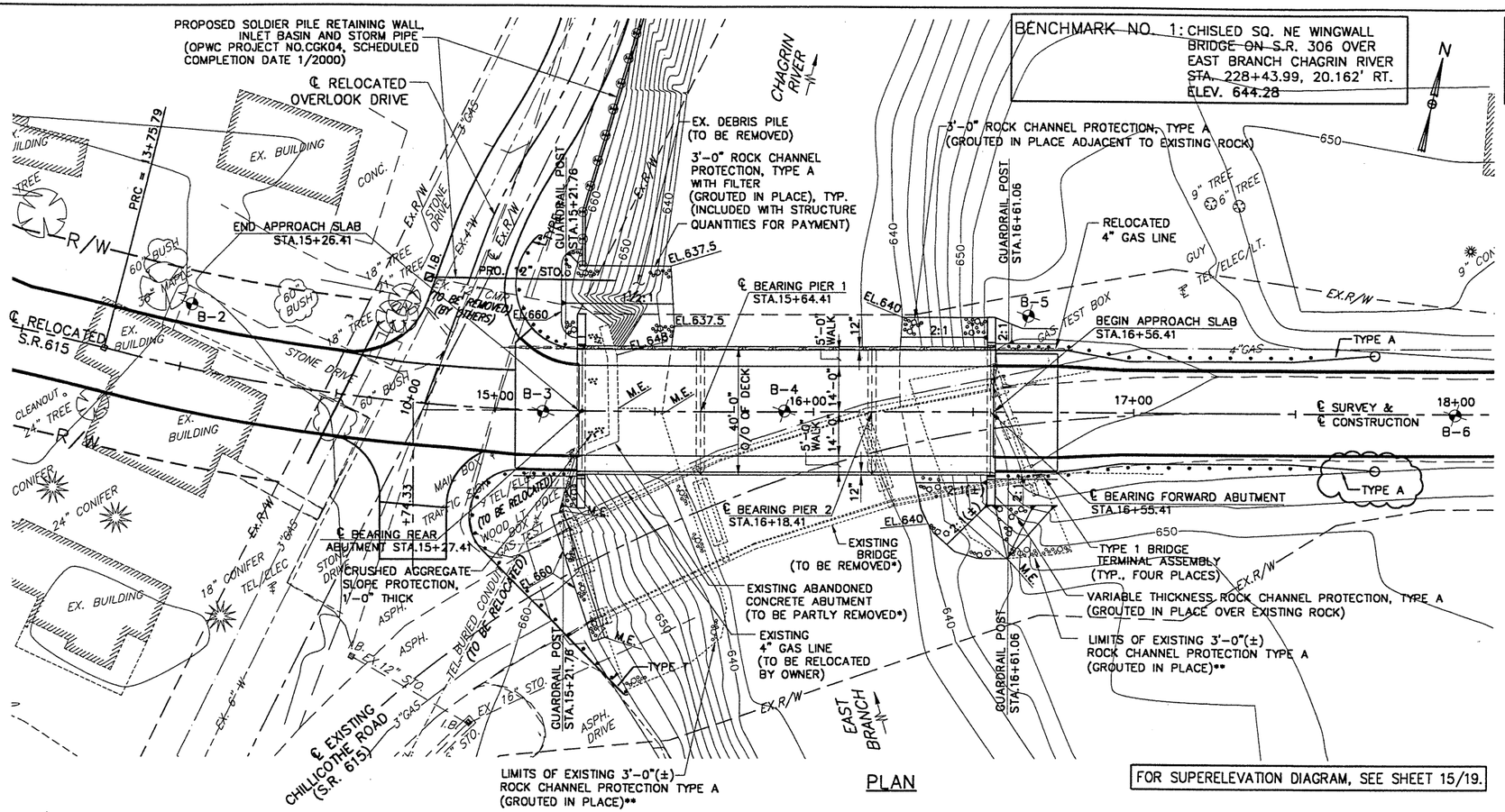
BENCHMARK NO. 1: CHISLED SQ. NE WINGWALL BRIDGE ON S.R. 306 OVER EAST BRANCH CHAGRIN RIVER STA. 228+43.99, 20.162' RT. ELEV. 644.28

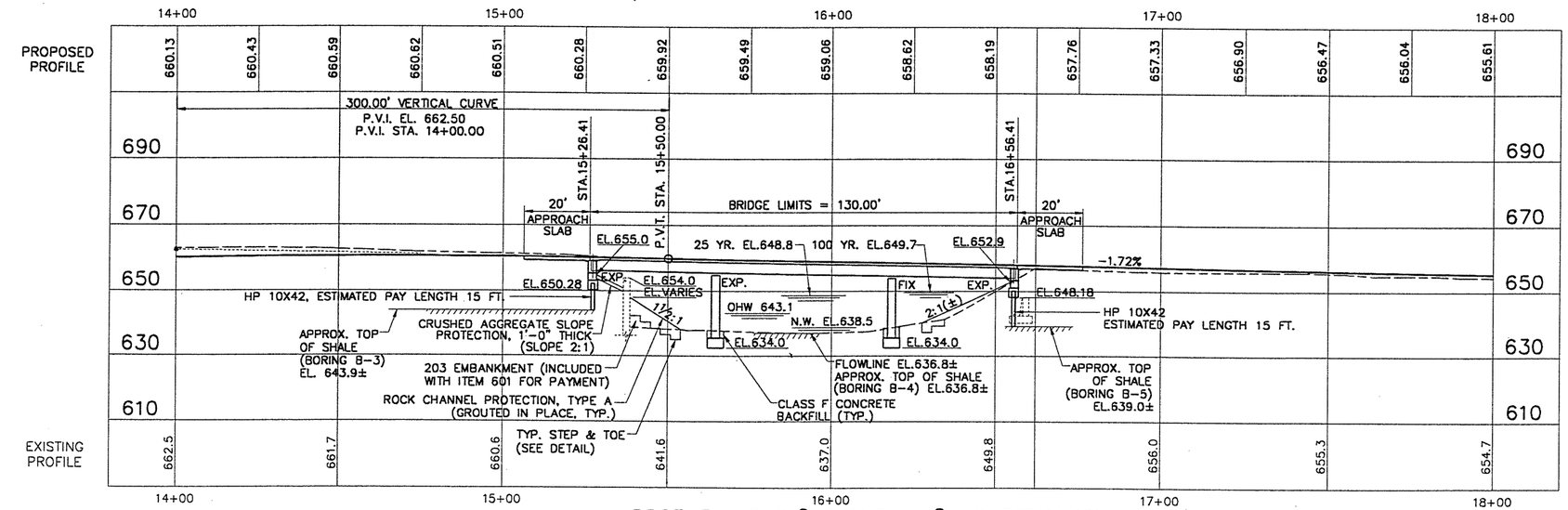
BENCHMARK NO. 2: CHISLED SQ. SET ON CONCRETE BASE (SW CORNER) OF O.B.T. BOX AT NE CORNER GARFIELD ROAD AND S.R. 615 STA. 30+55.68, 45.52' RT. ELEV. 650.32

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



PLAN

FOR SUPERELEVATION DIAGRAM, SEE SHEET 15/19.



PROFILE ALONG ℄ SURVEY & ℄ CONSTRUCTION

EXISTING STRUCTURE

TYPE: 3 SPAN CONTINUOUS REINFORCED CONCRETE SLAB DECK WITH REINFORCED CONCRETE SUBSTRUCTURE
SPANS: 44'-0", 55'-0", 44'-0" C/C OF BEARINGS
ROADWAY: 28'-0" F/F OF 1'-9" SAFETY CURBS
SKEW: NONE
ALIGNMENT: 15° CURVE RIGHT
WEARING SURFACE: ASPHALT CONCRETE
APPROACH SLABS: AS-4-47, 15'-0" LONG
CONDITION: SATISFACTORY
DATE BUILT: 1954
STRUCTURE FILE NUMBER: 4306333

PROPOSED STRUCTURE

TYPE: 3 SPAN CONTINUOUS STEEL COMPOSITE BEAMS (A588) WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS: 37'-0", 54'-0", 37'-0" C/C BEARINGS
ROADWAY: 28'-0" F/F CURBS w/5'-0" SIDEWALKS
LOADING: HS 20-44 (CASE II) AND THE ALTERNATE MILITARY LOADING
WEARING SURFACE: MONOLITHIC CONCRETE
SUPERELEVATION: VARIES
APPROACH SLABS: AS-1-81 (20'-0" LONG)
SKEW: NONE
ALIGNMENT: TANGENT

* – SEE ITEM 202 GENERAL NOTE ON SHEET 2/19 FOR SUBSTRUCTURE AND SLOPE PROTECTION REMOVAL INFORMATION.

** – TO BE INCORPORATED INTO THE NEW WORK (SEE GENERAL NOTE ON SHEET 2/19 AND RIVER SECTIONS ON SHEETS 18 AND 19/19 FOR ADDITIONAL INFORMATION.)

– INDICATES SOIL BORING LOCATION.

M.E. – INDICATES MATCH EXISTING SLOPE PROTECTION LIMITS AND ELEVATION.

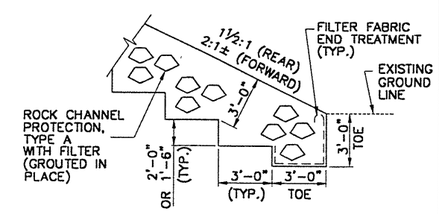
DESIGN AVERAGE DAILY TRAFFIC: 11950 (2023)
DESIGN AVERAGE DAILY TRUCK: 480 (2023)

HYDRAULIC DATA

PROPOSED STRUCTURE CLEARS DESIGN ESTIMATED 25 YR. WATER BY 5.66'

DRAINAGE AREA 44.14 SQ. MI.

ESTIMATED: Q_{25} = 5644 CFS
V_{25} = 6.56 FT./SEC.
Q_{100} = 7731 CFS
V_{100} = 8.02 FT./SEC.



ROCK CHANNEL PROTECTION STEP AND TOE DETAIL
(APPLIES TO AREAS ADJACENT TO EXISTING GROUTED ROCK)

CT Consultants, Inc. Engineers · Architects · Planners

DESIGNED J.P.R.	DRAWN R.L.B.	REVIEWED J.E.A. 12/30/99	DATE
CHECKED I.A.S.	REVISED R.L.B.	STRUCTURE FILE NUMBER	

LAKE COUNTY
STA. 15+26.41
STA. 16+56.41

SITE PLAN
LAK-615-0.29
OVER EAST BRANCH CHAGRIN RIVER

LAK - 615 - 0.00

1/19

75/95

H:\CT\97260\SDSK\97260TIN.DWG PAPER SPACE PLOT SCALE 1:1