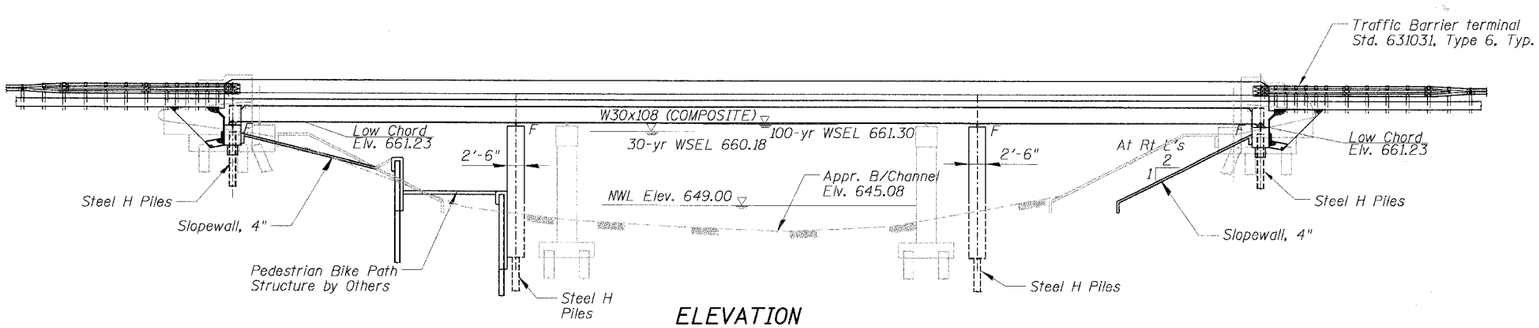
Bench Mark: OSBM2, Elv. 665.29. Square cut set on concrete base of light standard on the east side of Spring Road, infront of entrance of Oakbrook Terrace Tower Equity Office.

Existing Structure : SN 022-0027 was built in 1964. The supestructure consists of reinforced concrete deck 35'-0" wide x 145'-2" long supported on three span continuous non-composite steel stringers. The existing structure is to be removed down to 1'-0" below the existing grade (piers and abutments) and replaced with a three span continuous, composite steel stringer supestructure on integral abutments and solid web pier on piles. Timber Edge Drive will be closed to traffic during construction.
No Salvage.

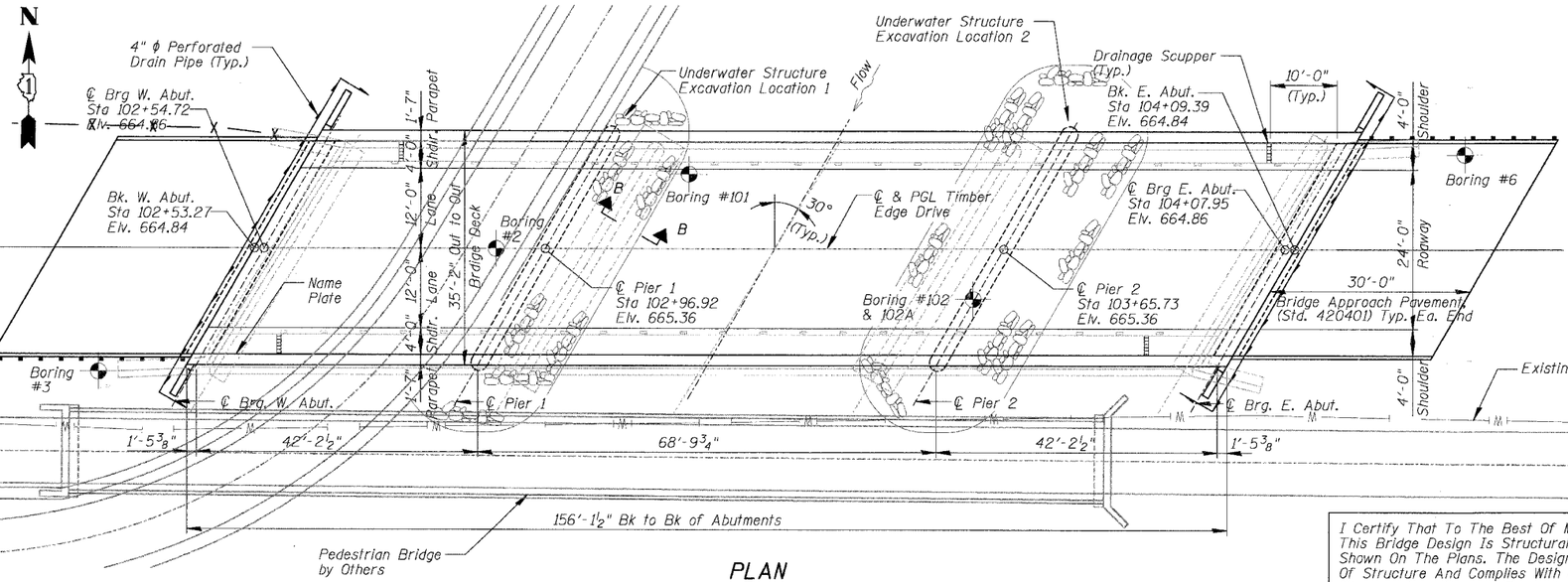
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	03-00019-00-BR	DUPAGE	35	35 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract #83965

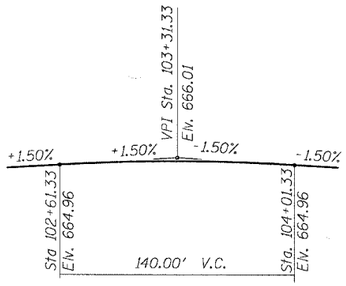
INDEX OF SHEETS



ELEVATION



PLAN



PROFILE GRADE

WATERWAY INFORMATION TABLE

Drainage Area = 100 mi²
Ex. Low Beam Elv. 660.06 @ 104+08 Ex. Low Grade Elv. 663.48 @ 105+00
Prop. Low Beam Elv. 661.29 @ 102+44 Prop. Low Grade Elv. 663.48 @ 105+00

Flood	Freq. Yr.	Q cfs	Opening ft² Exist.	Opening ft² Prop.	Nat. H.W.E.	Created Head-ft Exist.	Created Head-ft Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1850	1256	1256	659.15	0.01	0.11	659.16	659.26
Design	30	2420	1369	1387	660.18	0.00	0.05	660.18	660.23
	50	2652	1369	1450	660.65	0.01	0.09	660.66	660.74
Base	100	3084	1369	1539	661.30	0.02	0.02	661.32	661.32
	500	4379	1369	1539	664.04	0.05	0.00	664.09	664.04

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition.

LOADING HS20-44

Allow 50 #/sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 50,000 psi (structural steel) (M270 Grade 50)
f_y = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient = 0.037g
Site Coefficient = 1.0

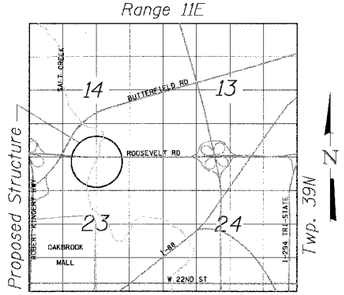
I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One For The Syle Of Structure And Complies With Requirements Of The Current "AASHTO Standard Specification For Highway And Bridges".

STATE OF ILLINOIS
MAJID MOBASSERI
081-005058
CHAMPAIGN, ILLINOIS
LICENCED STRUCTURAL ENGINEER

MAJID MOBASSERI
ILLINOIS REGISTRATION No. 081-005058
EXPIRATION DATE: 11/30/08

SALT CREEK
BUILT BY
CITY OF OAKBROOK TERRACE
SEC. 03-00019-00-BR
STA. 103+31.33
STR. NO. 022-6000 LOADING HS20

NAME PLATE



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

TIMBER EDGE DRIVE OVER SALT CREEK
DuPAGE COUNTY
F.A. ROUTE 7, SEC. 03-00019-00-BR
STATION 103+31.33
STRUCTURE NO. 022-6000

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018

REVISIONS NAME	DATE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: PDR
DRAWN BY: PDR
CHECKED BY: MM
APPROVED BY:
QUANTITY: DETAILS
DATE: 8/24/2007

DRAWING NUMBER
S-1

N:\Oakbrook\T\03608\Struct\03608-S1.PLN