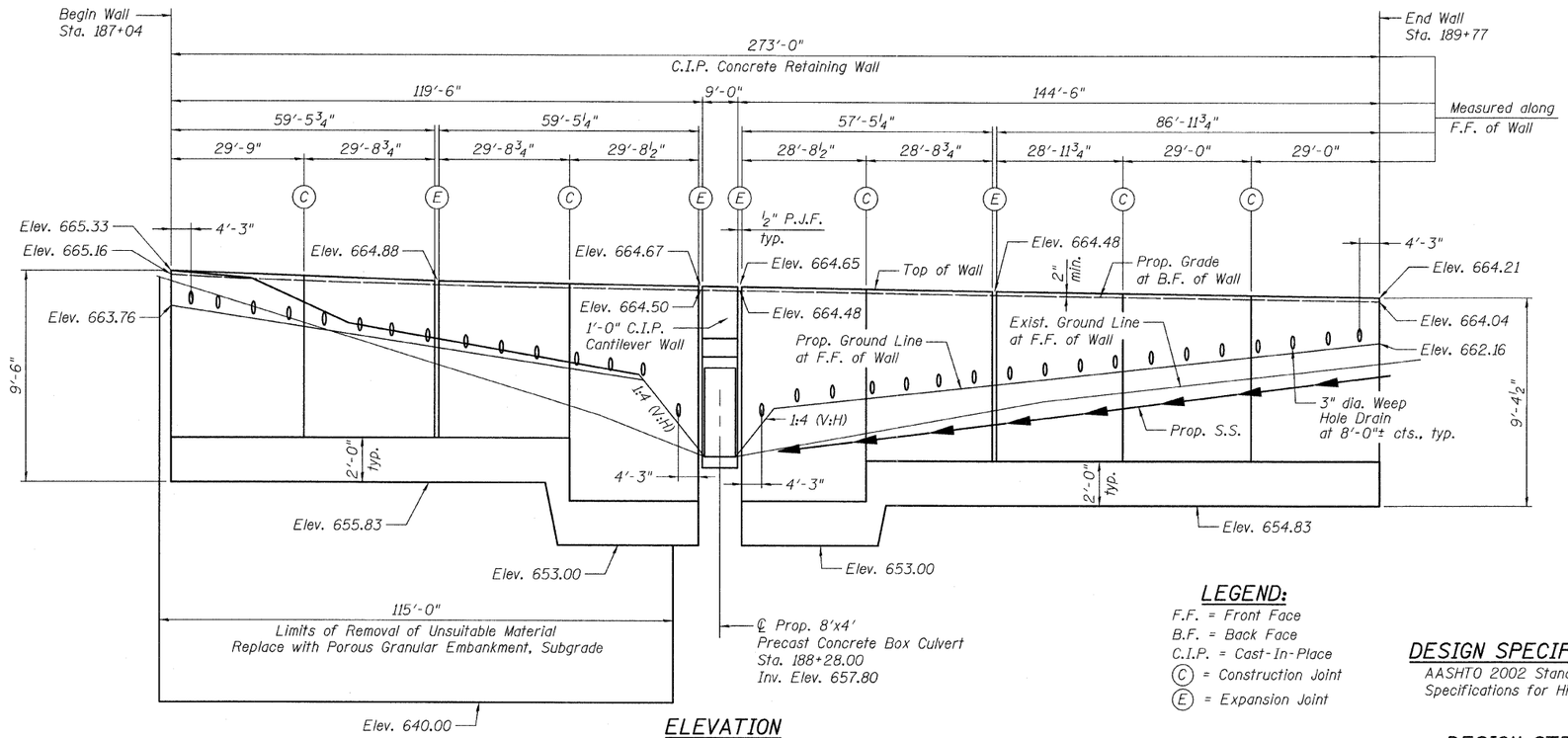
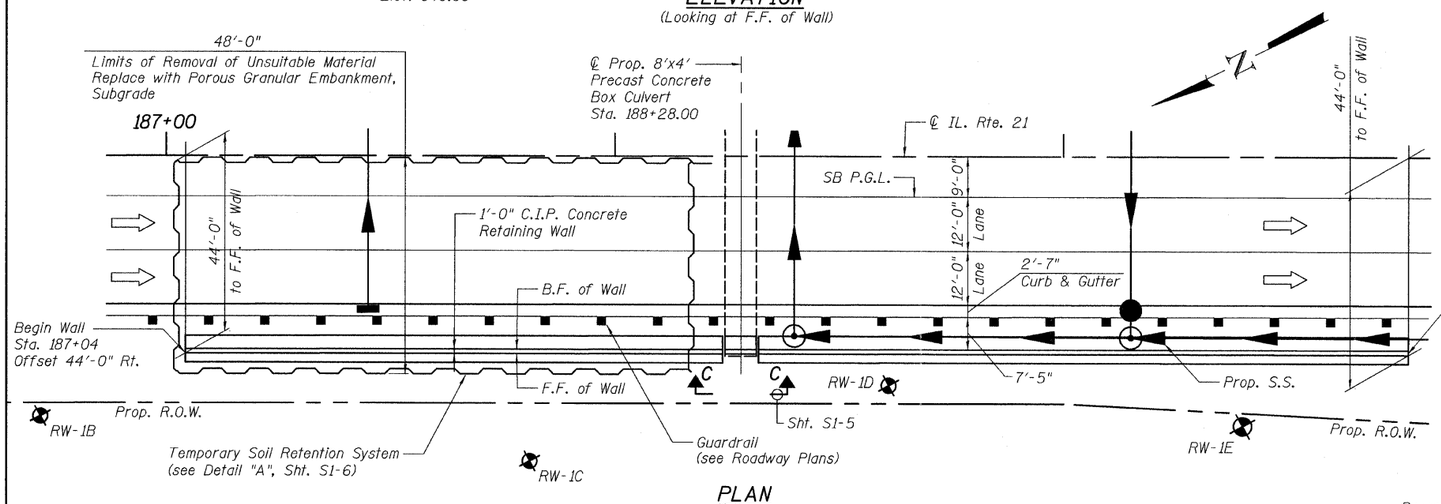
Bench Mark:
Chiseled box on top of S.E. wingwall of bridge,
Elevation 669.64

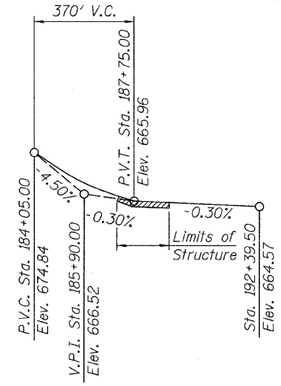


ELEVATION
(Looking at F.F. of Wall)



PLAN

370' V.C.



PROFILE GRADE
(Along SB P.G.L.)

INDEX OF SHEETS

S1-1 GENERAL PLAN & ELEVATION
S1-2 PLAN & ELEVATION-I
S1-3 PLAN & ELEVATION-II
S1-4 RETAINING WALL SECTIONS
S1-5 RETAINING WALL DETAILS
S1-6 TEMPORARY SOIL RETENTION SYSTEM
S1-7 SOIL BORING LOGS-I
S1-8 SOIL BORING LOGS-II

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	320
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	4,600
Concrete Structures	Cu. Yd.	200.0
Form Liner Textured Surface	Sq. Ft.	1,670
Reinforcement Bars, Epoxy Coated	Pound	21,630
Geocomposite Wall Drain	Sq. Yd.	106
Concrete Gutter, Type B	Foot	273
Temporary Soil Retention System	Sq. Ft.	7,600
Porous Granular Embankment, Subgrade	Cu. Yd.	3,230
Porous Granular Embankment, Special	Cu. Yd.	318
Stain For Concrete Structures	Sq. Yd.	186

LEGEND:

F.F. = Front Face
B.F. = Back Face
C.I.P. = Cast-In-Place
(C) = Construction Joint
(E) = Expansion Joint

DESIGN SPECIFICATIONS

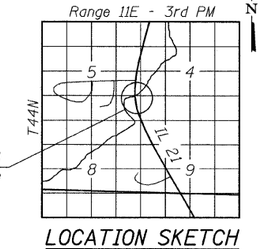
AASHTO 2002 Standard
Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 36,000 psi (Structural Steel)

Indicates Boring Locations



LOCATION SKETCH

STATE OF ILLINOIS
BHADRESH N. SHAH
081-004476
CHICAGO
LICENSED STRUCTURAL ENGINEER

Bhadresh N. Shah Aug. 15, 2011

BHADRESH N. SHAH
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. No. 081-004476
EXPIRES: 11-30-12

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 21 - RETAINING WALL NO. 1
F.A.P. 330 SEC. 128R-3
LAKE COUNTY
STATION 187+04.00 TO 189+77.00
STRUCTURE NO. 049-W017

CHRISTIAN–ROGE & ASSOCIATES, INC.

FILE NAME = D168953-01-GPE.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISED -
		CHECKED - B.N.S.	REVISED -
	PLOT SCALE =	DRAWN - F.M.	REVISED -
	PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 049-W017
SHEET NO. S1-1 OF S1-8 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	286
		CONTRACT NO. 60953		
	ILLINOIS FED. AID PROJECT			