

**BENCH MARK:**

C.P. #12: Found Rebar with Cap 39.25' from N.E. corner of S.W. Wingwall, 31.50' along slope from S.W. corner of S.W. Wingwall & 2.50' from existing back of curb, El. 810.890

Existing Structure: None

F.A.P. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-N-1	COOK	196	120
STA. 85+00.00		TO STA. 92+46.15		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

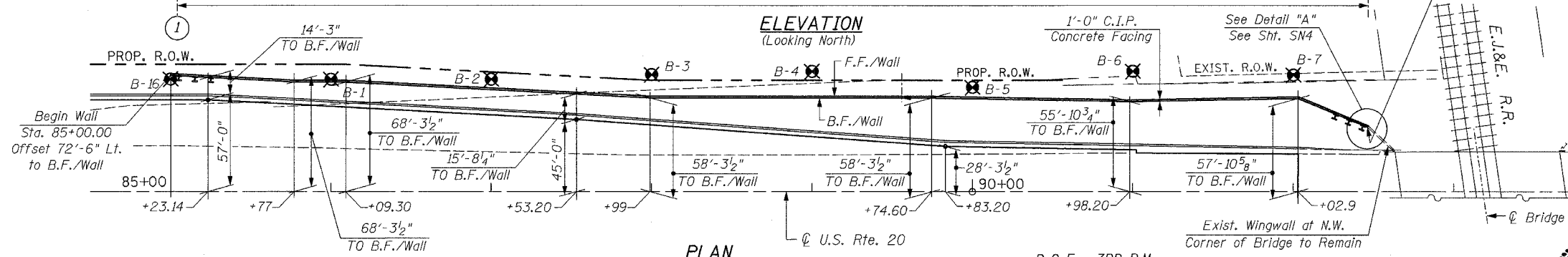
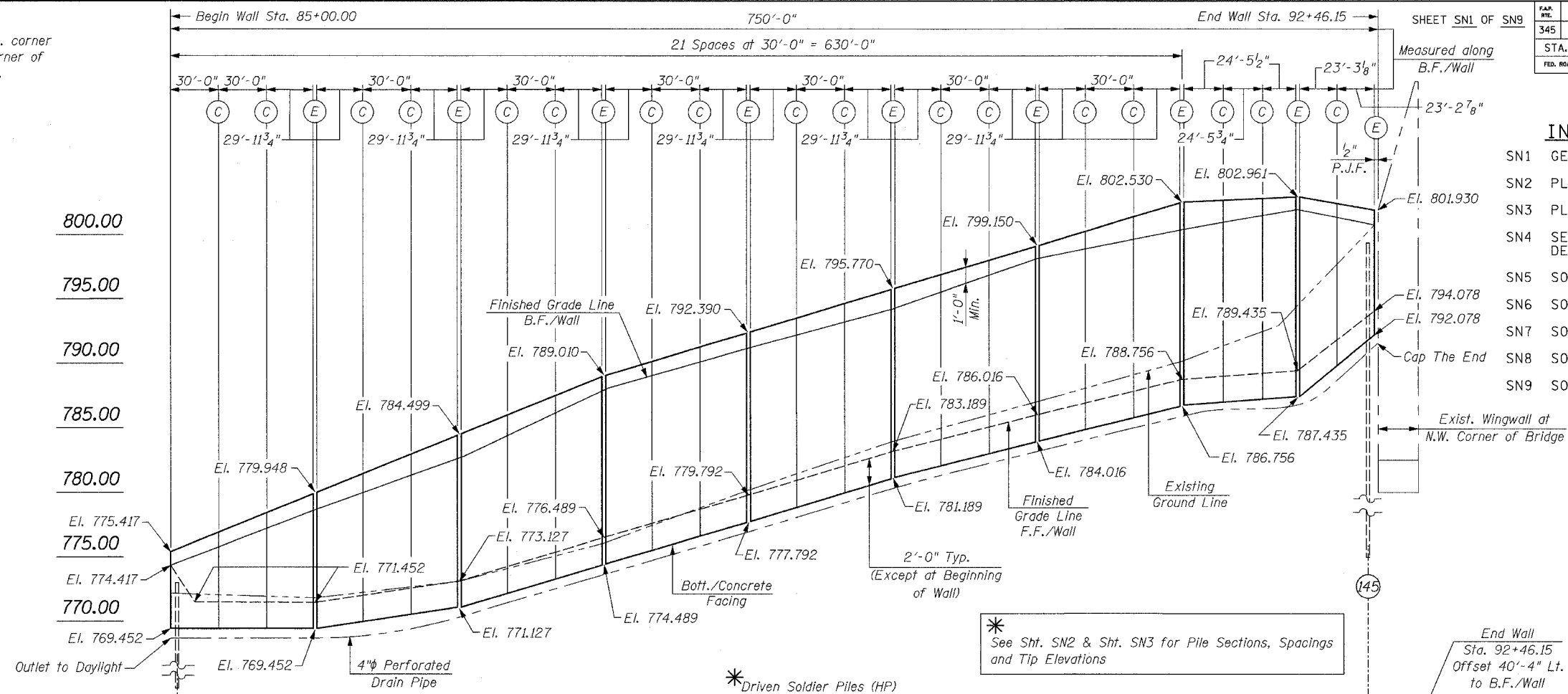
CONTRACT NO. 62617

**INDEX OF SHEETS**

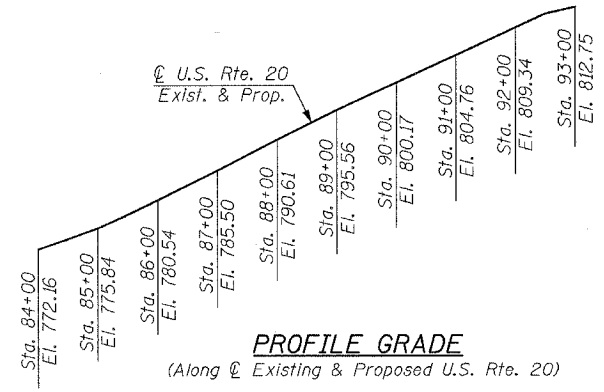
- SN1 GENERAL PLAN & ELEVATION
- SN2 PLAN & ELEVATION-I
- SN3 PLAN & ELEVATION-II
- SN4 SECTION & RETAINING WALL DETAILS
- SN5 SOLDIER PILE SCHEDULE
- SN6 SOIL BORING LOGS-I
- SN7 SOIL BORING LOGS-II
- SN8 SOIL BORING LOGS-III
- SN9 SOIL BORING LOGS-IV

**LEGEND:**

- B.F. = Back Face
- F.F. = Front Face
- C.I.P. = Cast-In-Place
- ⊙ = Construction Joint
- ⊕ = Expansion Joint
- ⊗ = Soil Boring Location



**PLAN**  
(From Sta. 85+00.00 to Sta. 92+46.15)



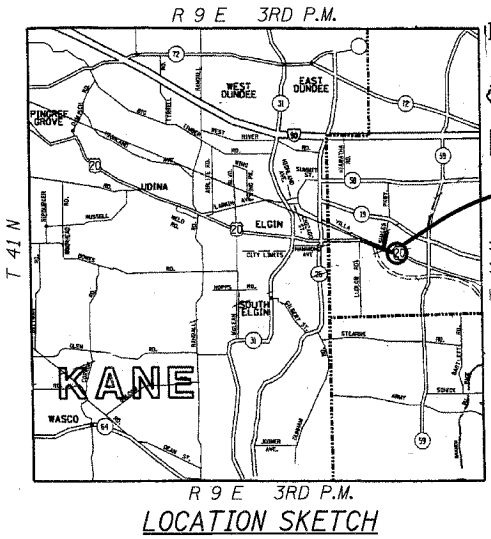
**PROFILE GRADE**

(Along U.S. Rte. 20  
Exist. & Prop.)

**HIGHWAY CLASSIFICATION**  
Route: F.A.P. 345 (U.S. Route 20)  
Class: Other Principal Arterial  
A.D.T.: 40,500 (Year 2005) 55,000 (Year 2010)  
D.H.V.: 2,450 (Year 2005) 3,300 (Year 2010)  
Design Speed: 50 mph  
Posted Speed: 50 mph

**DESIGN SPECIFICATIONS**  
AASHTO 17th Edition - 2002  
**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 PSI (C.I.P. Concrete)  
fy = 60,000 PSI (Reinforcement Grade 60)  
fy = 36,000 PSI (Soldier Pile) AASHTO M270 Gr. 36

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
*Repliv & Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



**LOCATION SKETCH**

REVISIONS	
NAME	DATE



*J. Najdowski*  
JEFFREY C. NAJDOWSKI  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS LIC. No. 081-006006  
EXPIRES: 11-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL PLAN & ELEVATION**  
U.S. RTE. 20  
AT BLUFF CITY / SHALES PARKWAY  
NORTH SOLDIER PILE RETAINING WALL  
F.A.P. 345 SECTION: 8R-1-N-1  
COOK COUNTY  
STRUCTURE NO. 016-W969  
SCALE: NONE  
DATE: FEBRUARY, 2008  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.  
**CHRISTIANO-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS