

Benchmark: BM #6 - Square cut in base of L.P. at N.E. corner of IL Route 132 and Magnolia (Speedway) 45.14' LT, Sta. 32+13.24 (TL 132 E.B. @), Elev. 696.47.

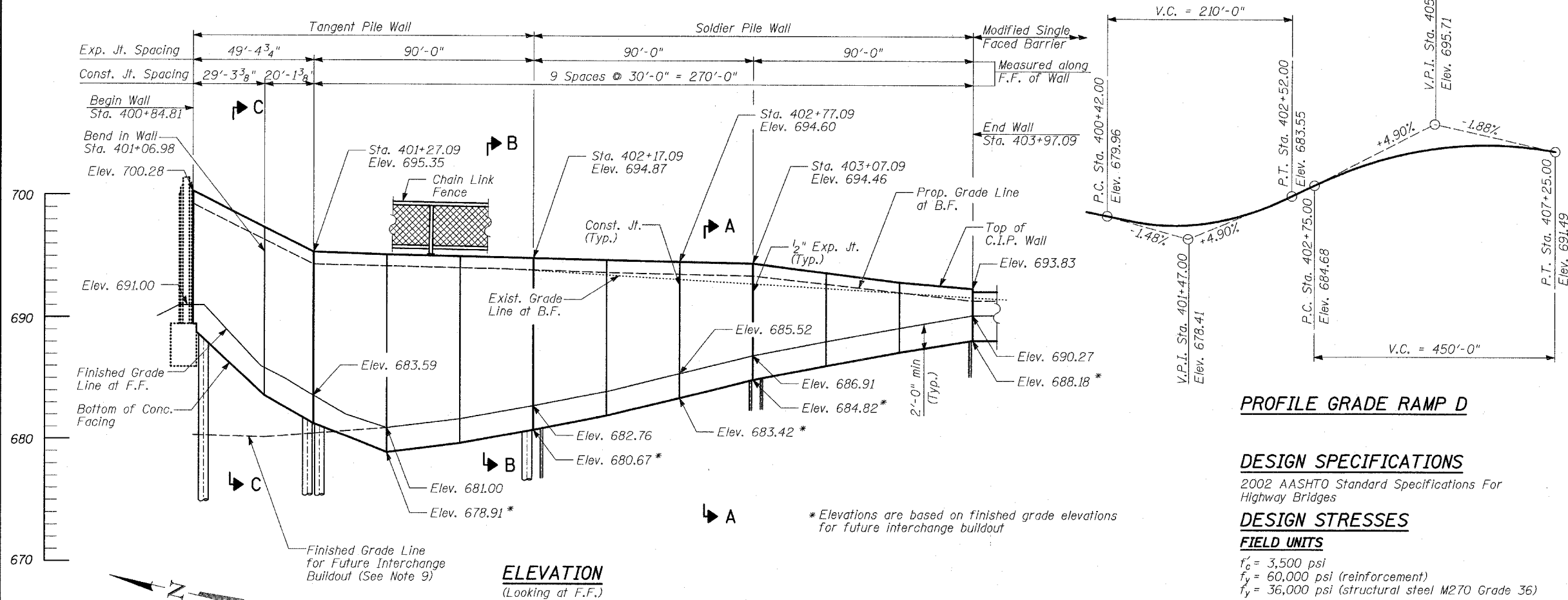
Existing Structure: None.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. - 1
346		LAKE	469	351	13 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-			
125X-HB-(1&2) R-1			CONTRACT # 60826		

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	401
Concrete Structures	CU YD	158
Anti-Graffiti Coating	SQ FT	3,657
Rustication Finish	SQ FT	2,968
Stud Shear Connectors	EACH	266
Untreated Timber Lagging	SQ FT	1,401
Furnishing Soldier Piles (W Section)	FOOT	852
Reinforcement Bars	POUND	143,020
Reinforcement Bars, Epoxy Coated	POUND	17,180
Drilled Shaft in Soil	CU YD	592
Geocomposite Wall Drain	SQ YD	367
Pipe Underdrains for Structures, 4"	FOOT	320
Drilling and Setting Soldier Piles (in Soil)	CU FT	5,507
Chain Link Fence, 42" Attached to Structure	FOOT	320



PROFILE GRADE RAMP D

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications For Highway Bridges

DESIGN STRESSES

FIELD UNITS

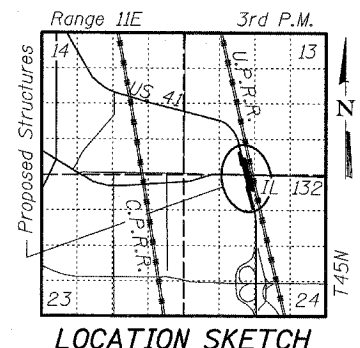
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (structural steel M270 Grade 36)

INDEX OF SHEETS:

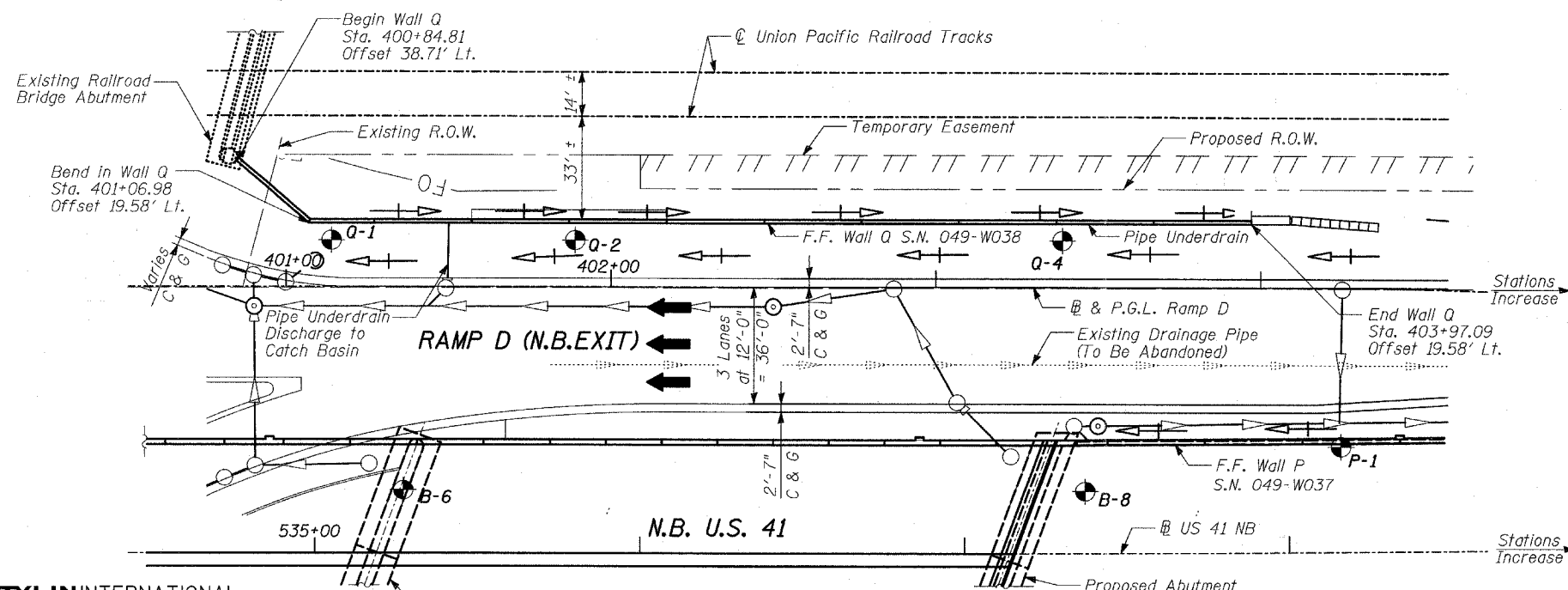
1. WALL Q GENERAL PLAN AND ELEVATION, STA 400+88.04 TO STA 403+97.09
2. WALL Q PLAN AND ELEVATION, STA 400+84.81 TO 401+27.09
3. WALL Q PLAN AND ELEVATION, STA 401+27.09 TO 402+17.09
4. WALL Q PLAN AND ELEVATION, STA 402+17.09 TO 403+07.09
5. WALL Q PLAN AND ELEVATION, STA 403+07.09 TO 403+97.09
6. WALL Q REINFORCEMENT DETAILS
7. WALL Q DETAILS (1 OF 2)
8. WALL Q DETAILS (2 OF 2)
9. CHAIN LINK FENCE DETAILS
10. RUSTICATION FINISH
11. BORING LOG Q-1
12. BORING LOG Q-2
13. BORING LOG Q-4

GENERAL NOTES:

1. Wall stations and offsets are given to the front face of the concrete facing, and are measured from Ramp D Baseline.
2. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress (f_b) of 1000 psi.
5. All exposed concrete edges shall be chamfered $3/4$ " except as noted.
6. Anti-Graffiti Coating shall be applied to exposed surfaces of the concrete facing.
7. The Geocomposite Wall Drain shall be constructed according to Section 591 of the Standard Specifications.
8. Existing utilities in conflict with Soldier Pile Wall construction shall be abandoned or relocated according to directions given in the Utilities and Drainage Plans.
9. Design wall heights from Sta. 400+84.81 to Sta. 401+57.09 will accommodate the Future Interchange Buildout, which includes an additional right turn lane.



LOCATION SKETCH



PLAN

TYLIN INTERNATIONAL

DESIGNED	- MB
CHECKED	- CM/AD
DRAWN	- DE
CHECKED	- CM/AD

LEGEND

- ⊙ - Manhole
- - Catch Basin
- ⊕ - Soil Boring
- - Prop. Storm Sewer
- - Exist. Drain Pipe
- +— - Proposed Drainage Swale

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TYP)
ENGINEER OF BRIDGES AND STRUCTURES



Signed SP
Spiros Pantazis, S.E., Il. Lic. No. 081-006448
Expires 11-30-2008.
Date 5/14/08
For drawings 1 thru 12 of 12

**WALL Q
GENERAL PLAN
STA 400+84.81 TO STA 403+97.09**

FAP 346 (U.S. ROUTE 41 - SKOKIE
HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W038