STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 9994	*	COOK	246	152
FED. ROAD DIST. # 1	ILLINOIS	FED. AID PROJECT		

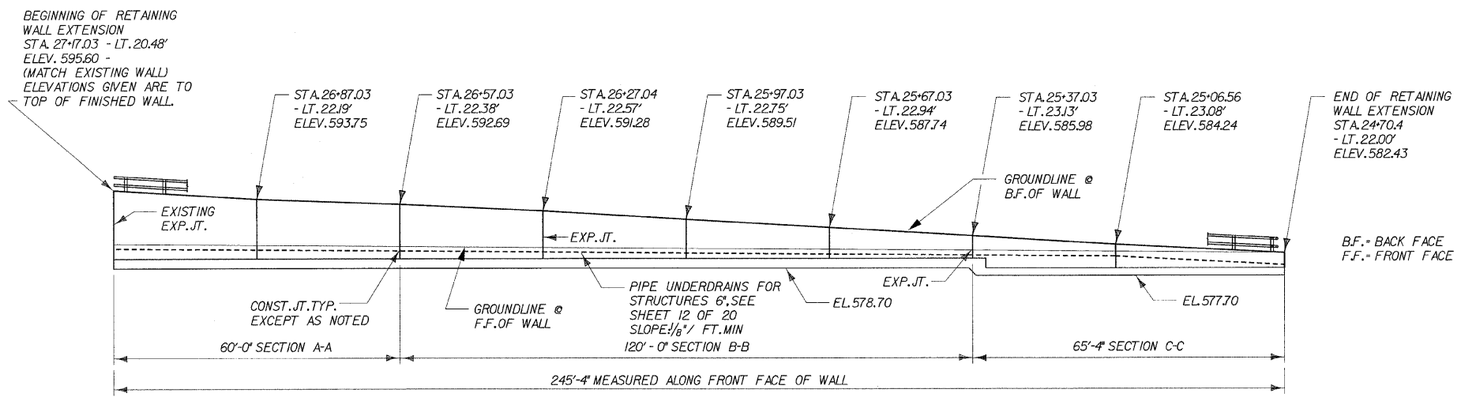
*SECT. (202.6 - 2P, ETC, 1415 & 1517) R-7
CONTRACT NUMBER 62408

SHEET NO. 1
20 SHEETS

BENCH MARK
BM 901 - N.W. ANCHOR BOLT OF HIGH MAST LIGHT POLE
STA. 32+81 - 96 FT. LEFT: ELEV.= 587.33

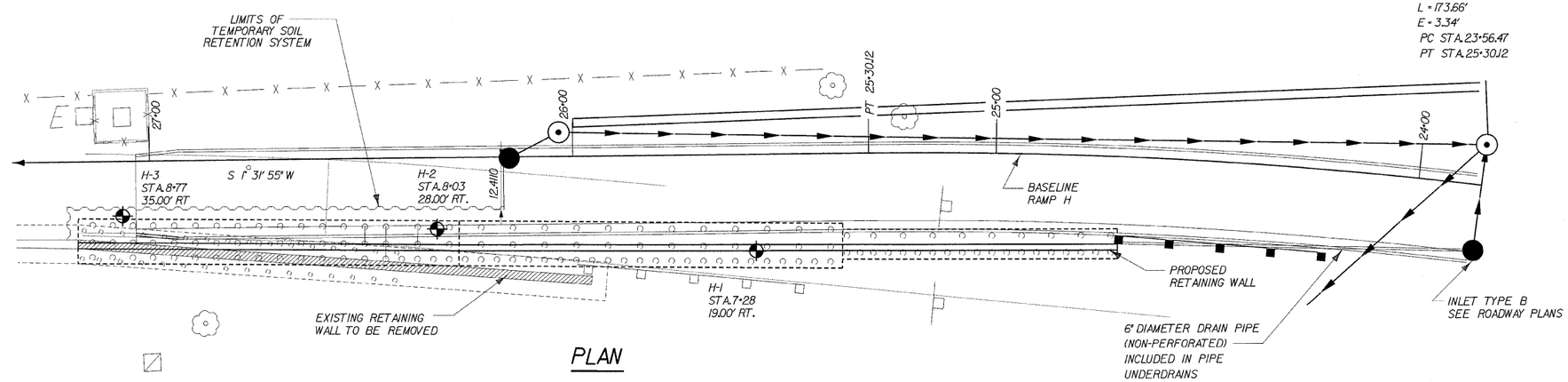
EXISTING STRUCTURE NO. 016-W808
190/194 RAMP H - ADAMS ST. EXIT RAMP
BUILT IN 1957, CONSISTS OF CAST-IN-PLACE CONCRETE RETAINING WALL SUPPORTED ON CONCRETE PILING

PROPOSED IMPROVEMENTS
EXISTING STRUCTURE TO BE REMOVED AND REPLACED WITH A CAST-IN-PLACE CONCRETE T-TYPE RETAINING WALL SUPPORTED ON CONCRETE FILLED METAL SHELL PILES. NO SALVAGE.

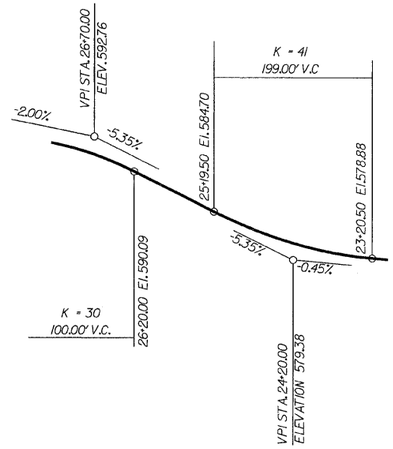


ELEVATION

NOTE: STATIONS AND OFFSETS FROM BASELINE RAMP H



PLAN



PROFILE GRADE RAMP H

(@ BASELINE SURVEY RAMP H)

HORIZONTAL CURVE DATA

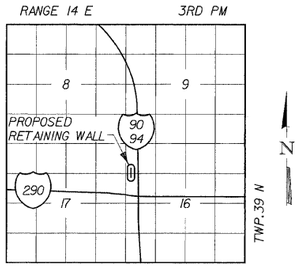
RAMP H
PI STA. 24+43.47
I = 8°48' 18" (LT)
D = 5°04' 14"
T = 87.00'
R = 1,130.00'
L = 173.66'
E = 3.34'
PC STA. 23+56.47
PT STA. 25+30.12

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU YD	293.5
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,000
CONCRETE REMOVAL	CU YD	95
REINFORCEMENT BARS	POUND	19,000
REINFORCEMENT BARS, EPOXY COATED	POUND	4,920
STRUCTURE EXCAVATION	CU YD	1,090
FURNISHING METAL SHELL PILES 14" x 0.250"	FOOT	7,683
DRIVING PILES	FOOT	7,683
TEST PILE METAL SHELLS	EACH	1
GEOCOMPOSITE WALL DRAIN	SQ YD	197
PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	246
RUSTICATION FINISH	SQ FT	1,420
INSTALL DECORATIVE STEEL GUARDRAIL	FOOT	245
INSTALL DECORATIVE STEEL FASCIA	FOOT	182
EMBEDDED PLATE, GUARDRAIL UPRIGHT, EXPANSION JOINT	EACH	4
EMBEDDED PLATE, GUARDRAIL UPRIGHT	EACH	33
REPAIR OF FASCIA PANELS, EXIT RAMP H	LS	1

GENERAL NOTES

1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AST.M A 706 GR60. SEE SPECIAL PROVISIONS.
2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM FIELD MEASUREMENTS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.
4. REMOVAL OF THE EXISTING RAMP H RETAINING WALL, INCLUDING EXISTING PILE TOPS AND BACKFILLING WITH GRANULAR MATERIAL TO EL. 578.7, TO BE INCLUDED IN REMOVAL OF EXISTING STRUCTURES.
5. THE CONTRACTOR SHALL DRIVE ONE METAL SHELL PILE 14" DIAMETER TEST PILE IN A PERMANENT LOCATION NEAR BORING H-2 AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
6. A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
7. ALL CONSTRUCTION JOINTS SHALL BE BONDED.



LOCATION SKETCH

DESIGN SPECIFICATIONS

2002 AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES

DESIGN STRESSES

LOADINGS
EQUIVALENT FLUID SOIL PRESSURE = 40 pcf
TRAFFIC SURCHARGE PRESSURE = 240 psf

F'C = 3,500 PSI (CONCRETE)
FY = 60,000 PSI (REINFORCEMENT)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

DESIGNED	ECF
CHECKED	JMM
DRAWN	ECF & DPW
CHECKED	JMM

DLZ ILLINOIS, L.L.C.
ARLINGTON HEIGHTS, ILLINOIS
Signed : Peter R. Dombrowski
Date : 02-25-2009
Expiration Date : 11/30/10
STATE OF ILLINOIS · PETER R. DOMBROWSKI · 6519 · REGISTERED STRUCTURAL ENGINEER

DLZ Illinois, Inc. 85 W. Algonquin Rd. Ste. 220 Arlington Heights Il 60005

REVISIONS	
NAME	DATE

RETAINING WALL RAMP H
GENERAL PLAN & ELEVATION
I-90/94 KENNEDY EXPRESSWAY
(HUBBARDS CAVE TO I-290)
SECT. (202.6 - 2P, ETC. 1415 & 1517) R-7
STATION 27+17. LT. 20.5' TO 24+70. LT. 22'
(RAMP F BASELINE)
COOK COUNTY
STRUCTURE NUMBER 016-W808

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