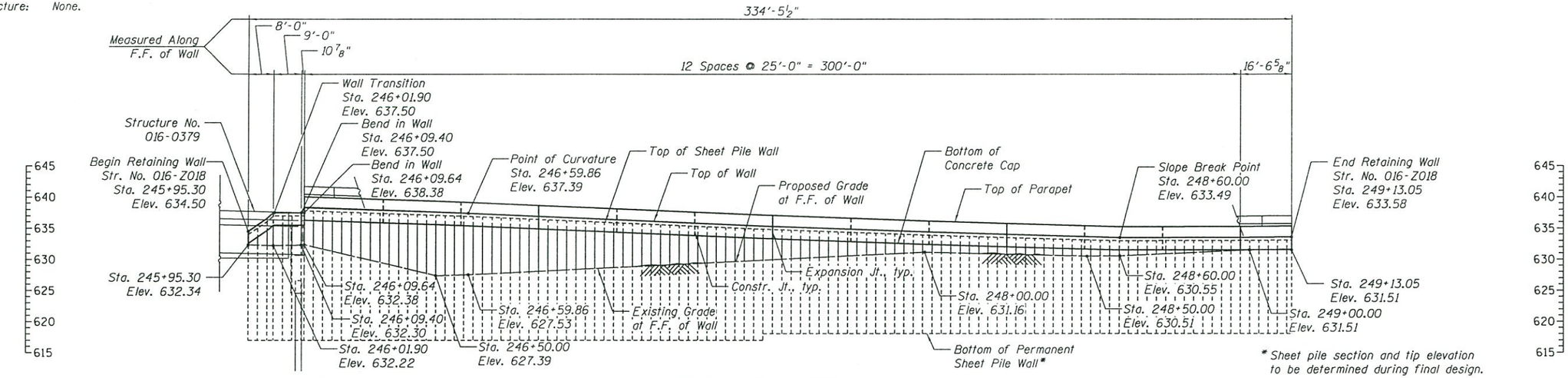
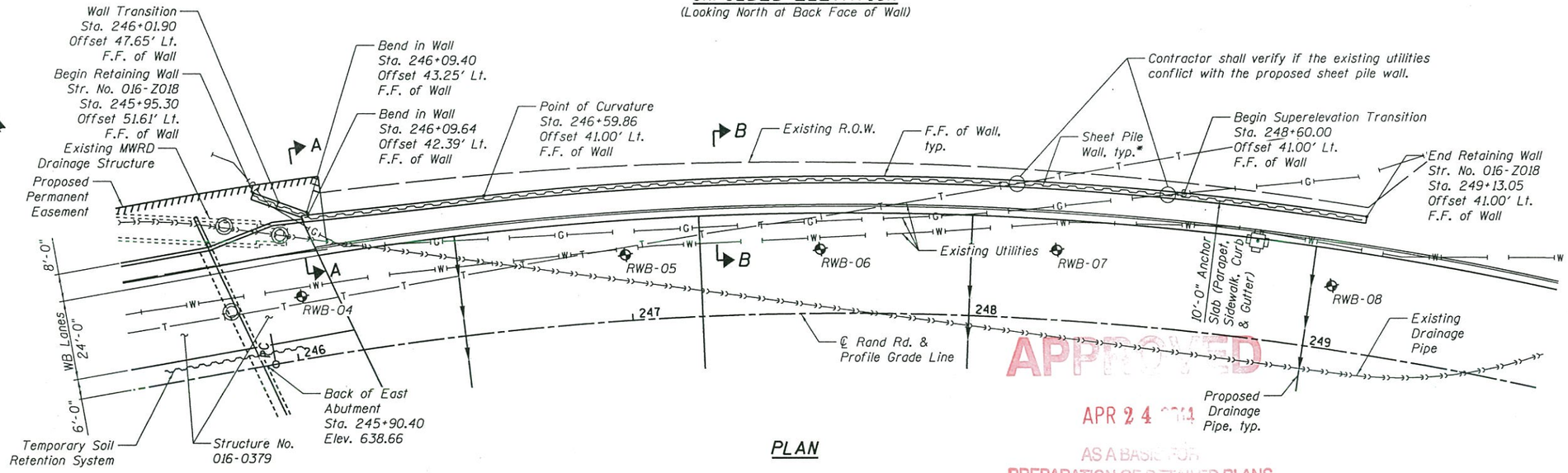
Benchmark: BM-92 Chiseled square on sidewalk at S.W. corner of S.N. 016-0362, Elev. 635.39.

Existing Structure: None.

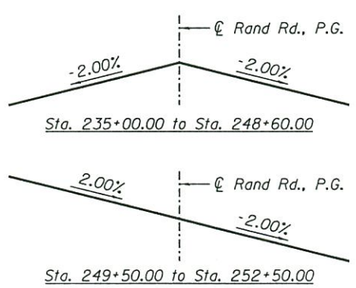


UNFOLDED ELEVATION

(Looking North at Back Face of Wall)

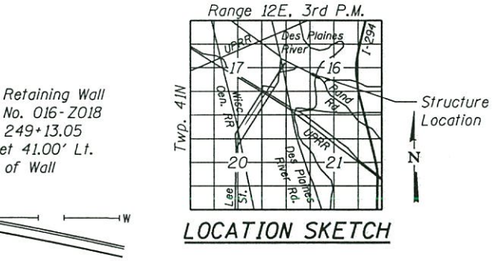


PLAN



SUPERELEVATION TRANSITION
RAND ROAD

(Looking Upstation)



LOCATION SKETCH

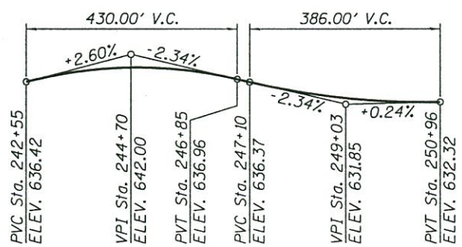
LEGEND

Soil Boring

CURVE DATA

(℄ of Rand Rd.)

P.I. Sta. = 249+67.15
Δ = 42° 59' 15" (RT)
D = 6° 01' 52"
R = 950.00'
T = 374.10'
L = 712.76'
E = 71.00'
P.C. Sta. = 245+93.06
P.T. Sta. = 253+05.82



PROFILE GRADE

(Along ℄ Rand Rd.)

HIGHWAY CLASSIFICATION

Rte. FAU 3523 (Rand Road)
Functional Class: Minor Arterial
ADT: 27,400 (2010); 29,000 (2030)
DHV: 1,525 (2030)
ADTT: 2.2%
Design Speed: 40 m.p.h.
Posted Speed: 40 m.p.h.
Two-Way Traffic
Directional Distribution: 50/50

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Sheet Pile)

APPROVED
APR 24 2014
AS A BASIS FOR
PREPARATION OF DETAILED PLANS

GENERAL PLAN
RAND ROAD
RTE. FAU 3523 - SEC. 120Y-B
COOK COUNTY
STATION 245+95.30 TO 249+13.05
STRUCTURE NO. 016-Z018

RS&H

USER NAME = lait	DESIGNED - TLR 07-30-2013	REVISED - TLR 12-16-2013
PLOT DATE = 4/23/2014	CHECKED - LM 07-31-2013	REVISED
	DRAWN - TLR 07-31-2013	REVISED
	CHECKED - LM 07-31-2013	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 016-Z018
SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	173	113
		CONTRACT NO. 60IJ10		
	ILLINOIS FED. AID PROJECT			

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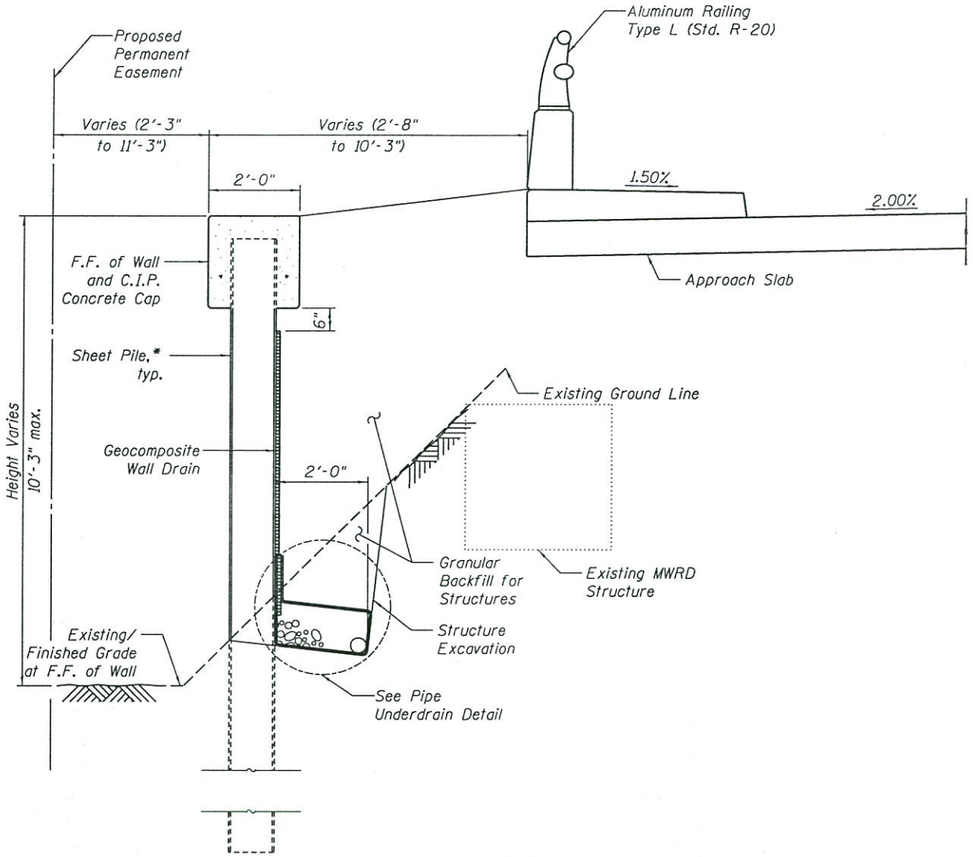
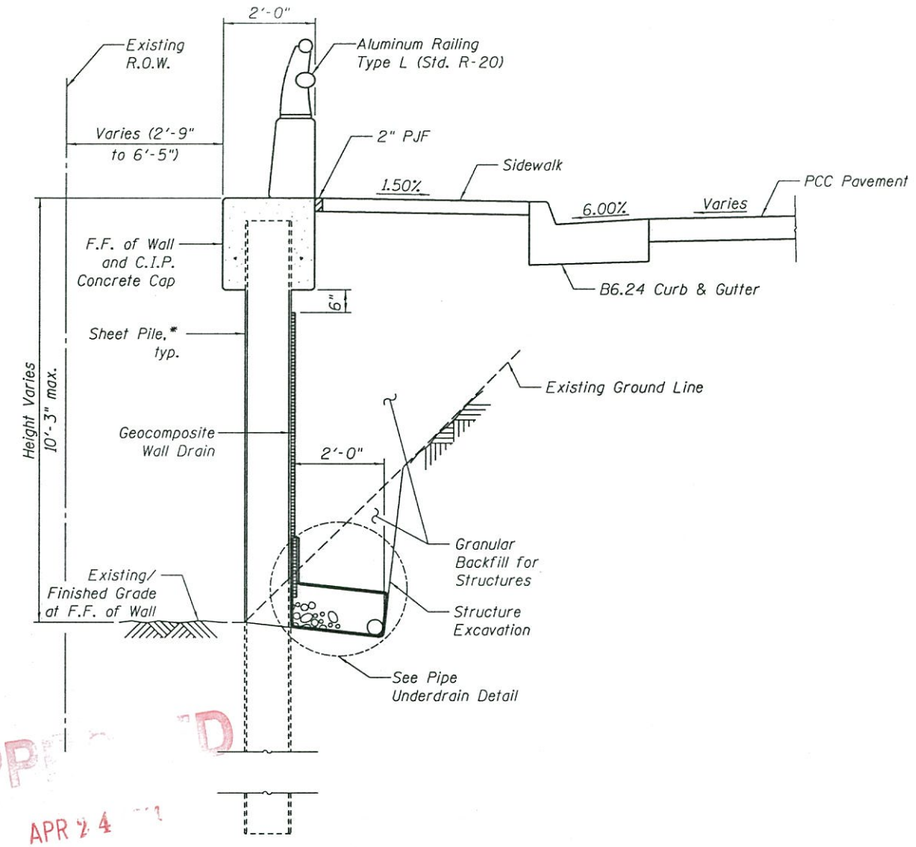
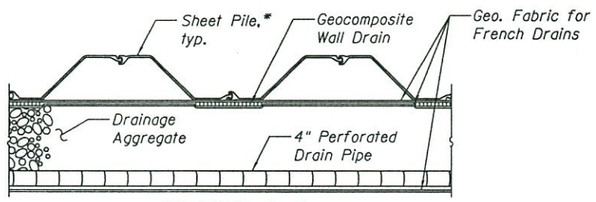


SECTION A-A THRU
SHEET PILE WALL

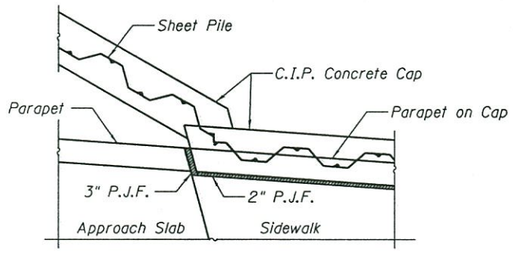


SECTION B-B THRU
SHEET PILE WALL

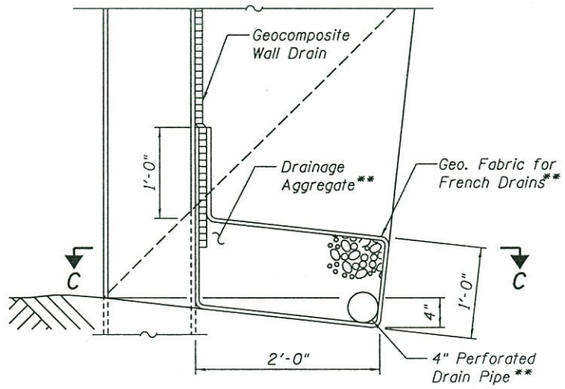
APPROVED
APR 24
AS A BASIS FOR PREPARATION OF DETAILED PLANS



SECTION C-C



RETAINING WALL/APPROACH SLAB
INTERFACE DETAIL



PIPE UNDERDRAIN DETAIL

**Note: Included in the cost of pipe underdrains for structures, 4"

* Sheet pile section and tip elevation to be determined during final design.

DETAILS
RAND ROAD
RTE. FAU 3523 - SEC. 120Y-B
COOK COUNTY
STATION 245+95.30 TO 249+13.05
STRUCTURE NO. 016-Z018

FILE NAME = X:\P\113-2838-888 Rand Road\CAD\S\C400 Sheets\TSL1_A\B1678018-68J1P-TSL-002.dgn

RS&H

USER NAME = lait	DESIGNED - TLR	07-30-2013	REVISED - TLR	12-16-2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS STRUCTURE NO. 016-Z018
PLOT DATE = 4/23/2014	CHECKED - LM	07-31-2013	REVISED - TLR	03-28-2014		SHEET NO. 2 OF 2 SHEETS
	DRAWN - TLR	07-31-2013	REVISED			
	CHECKED - LM	07-31-2013	REVISED			

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	173	114
		CONTRACT NO. 601J10		
		ILLINOIS FED. AID PROJECT		