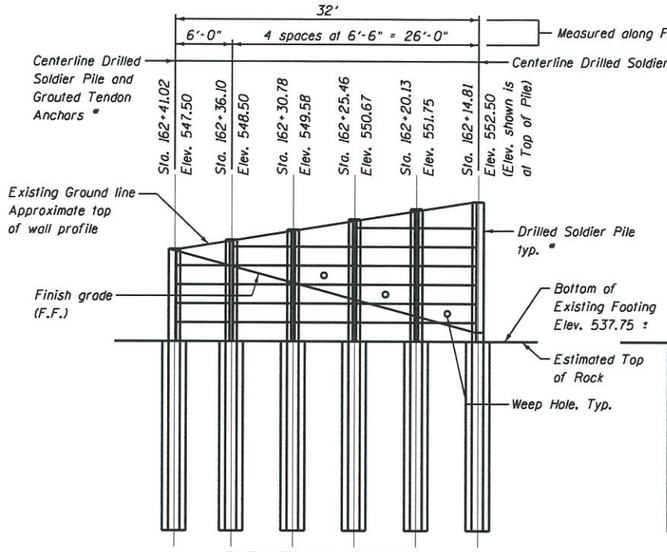
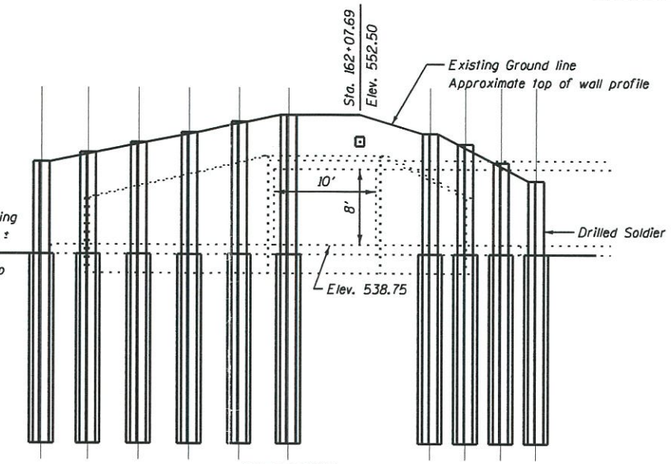
BENCHMARK 1
CHISELED SQUARE TOP OF WALL
SOUTH OF CONTROL POINT 251511
Sta 170+01.86
36.3502 LT.
N 1700365.8430
E 768236.4840
ELEV. 586.78

Existing Structure:
10'x8' Cast-in-place Concrete Box
Culvert SN 050-2524
Section 1Z
Built 1961
374' Between Headwalls
Variable Wall and Slab Thicknesses
20° Lt Fwd Skew

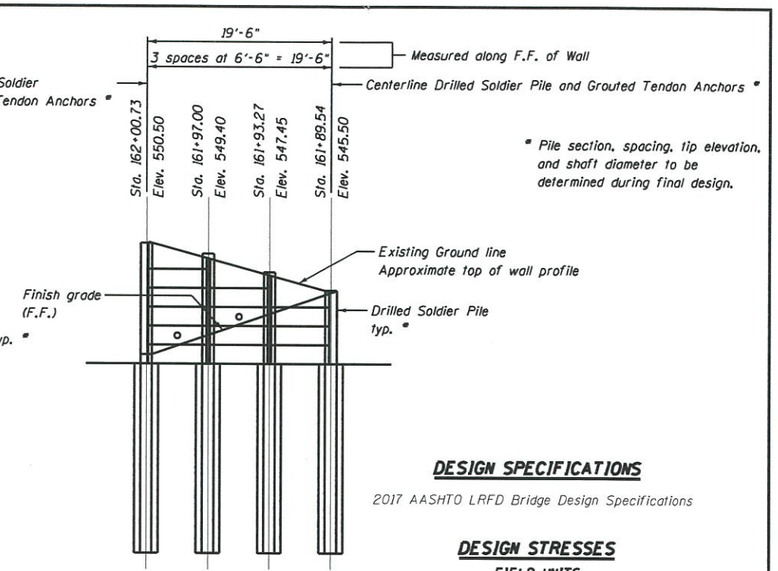
Traffic Control:
Outside Lane Closure



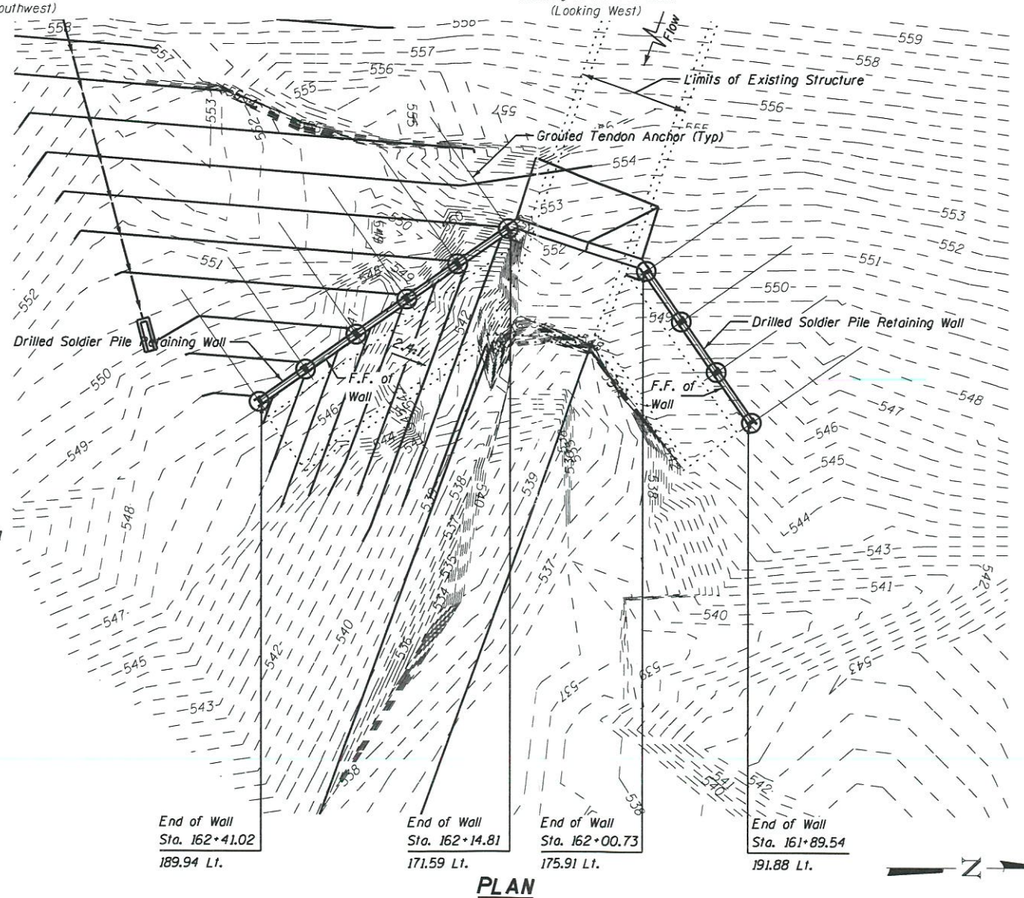
ELEVATION SOUTH WALL
(Looking at F.F. of wall)
(Looking Southwest)



ELEVATION
(Looking at F.F. of wall)
(Looking West)



ELEVATION NORTH WALL
(Looking at F.F. of wall)
(Looking Northwest)



Offsets are measured from Baseline IL 251 to front face of wall.
F.F. - Front Face

PLAN

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

EXISTING

fs = 20,000 psi (Reinforcement)
fc = 1,400 psi (Barrel)
fc = 1,000 psi (Wing Walls)

PRECAST UNITS

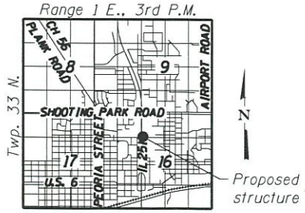
f'c = 6,000 psi
fy = 60,000 psi (Reinforcement)

HIGHWAY CLASSIFICATION

F.A.P. 46 - IL 251
Functional Class: Other Principal Arterial
ADT: 8050 (2015); 10600 (2038)
DHV: .084
Design Speed: 45 m.p.h.
Posted Speed: 45 m.p.h.

APPROVED
AUG 14 2018
AS A BASIS FOR
PREPARATION OF DETAILED PLANS

Range 1 E., 3rd P.M.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL ROUTE 251
F.A.P. 46
SECTION (1)1-2
LASALLE COUNTY
STATION 161+89.54 TO 162+41.02
STRUCTURE NO. 050-8802

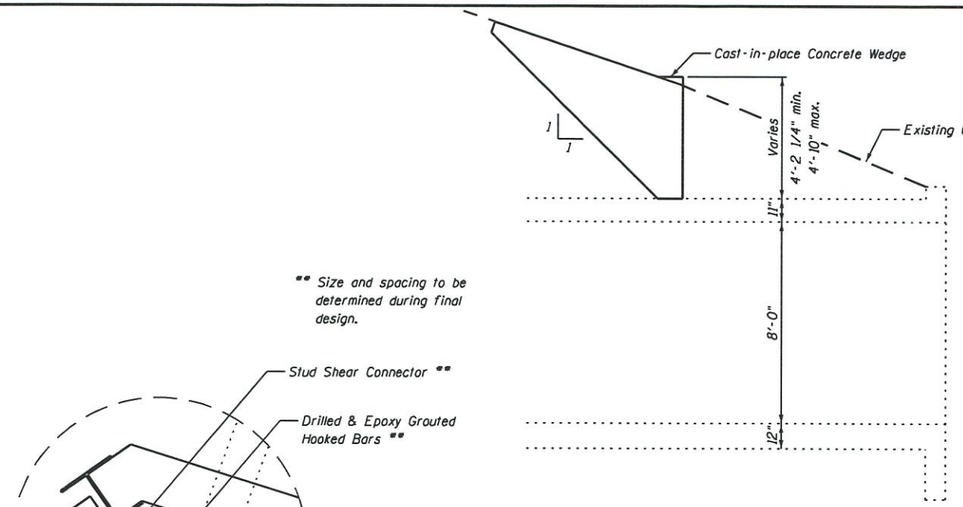
FILE NAME = D366F12-sht-TSL-CULVERT.dgn	USER NAME = CHAMLIN	DESIGNED JKC	REVISED -
		DRAWN LAG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED JKC	REVISED -
	PLOT DATE = $DATE$	DATE 7/5/18	REVISED -

CHAMLIN & ASSOCIATES, INC.

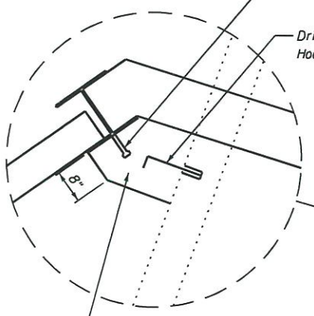
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=8' | SHEET 1 OF 2 SHEETS | STA. 162+23.20 TO STA. 163+64.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(1)1-2	LaSalle		
		CONTRACT NO. 66F12		
	ILLINOIS FED. AID PROJECT			

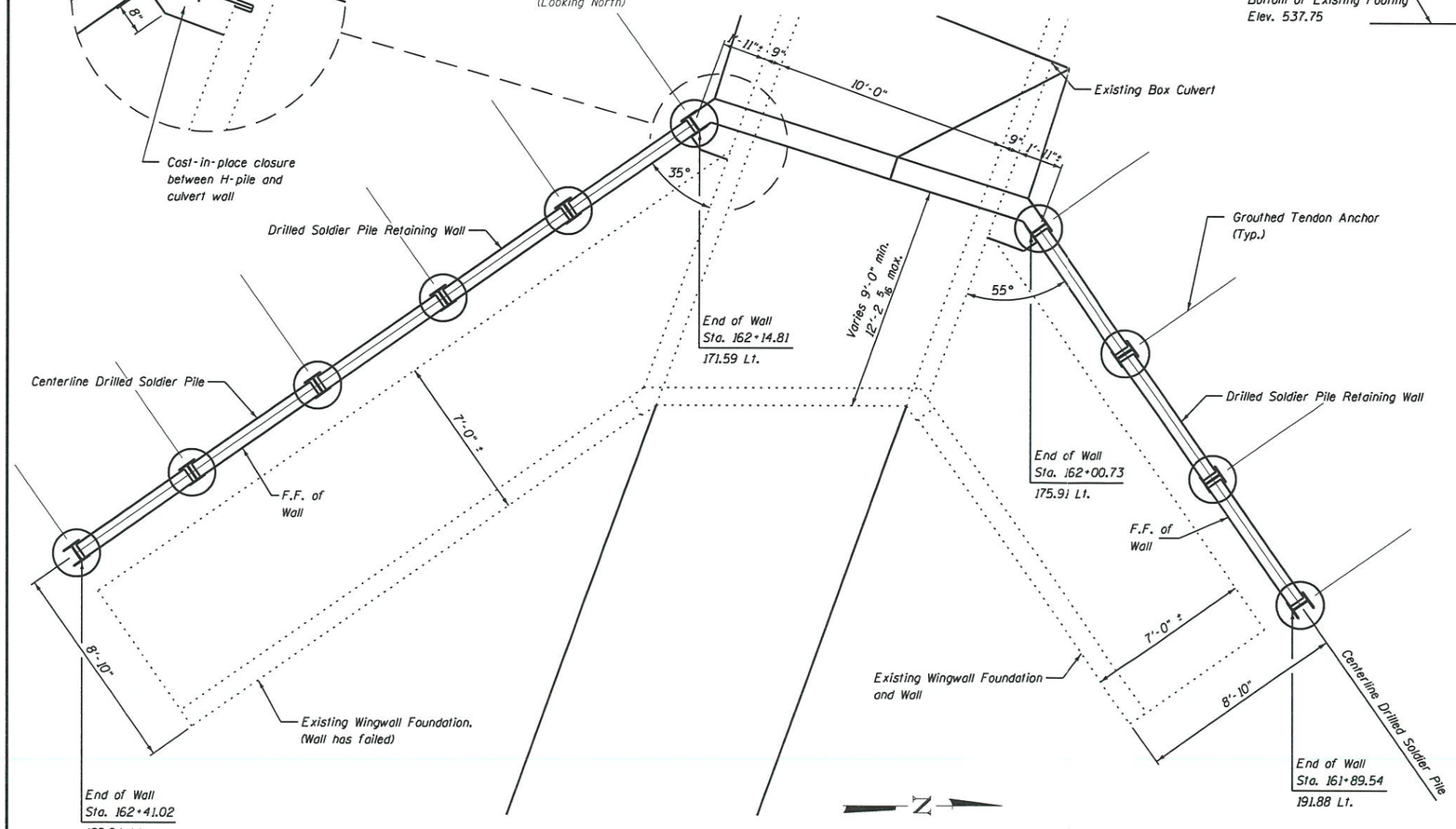


** Size and spacing to be determined during final design.

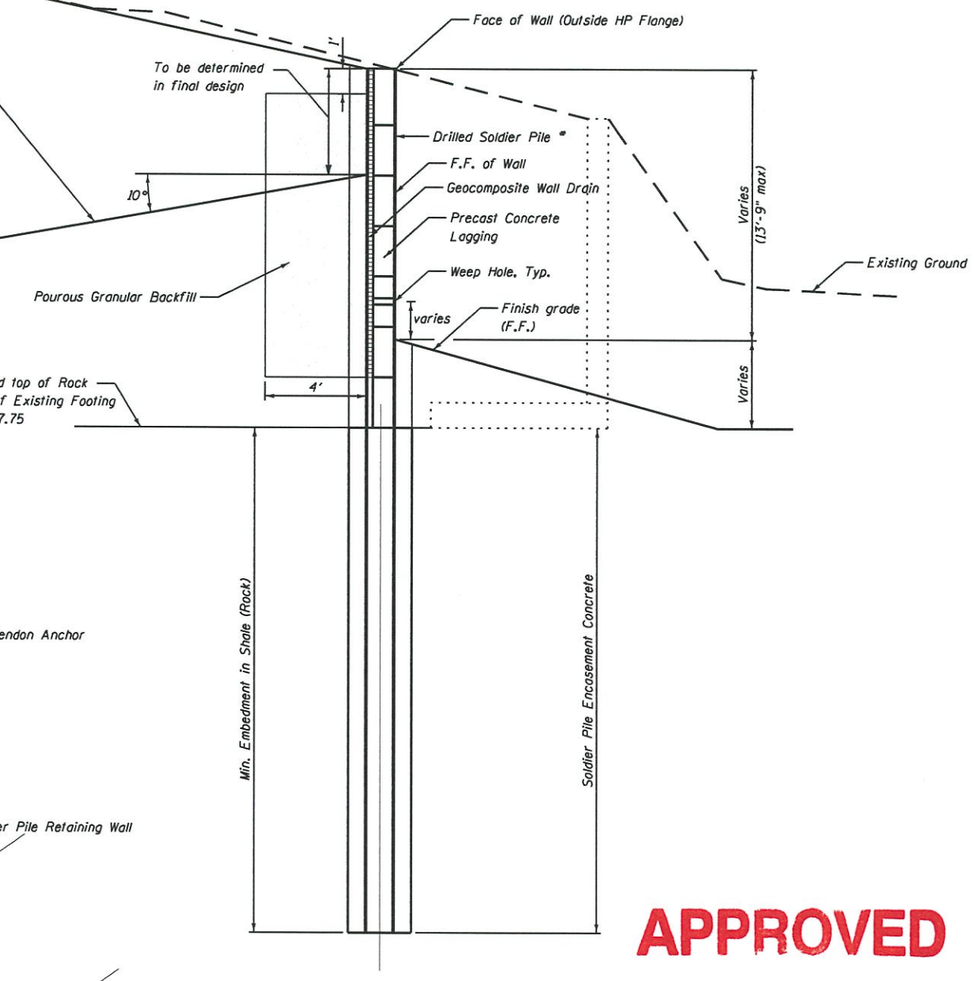


WALL SECTION ABOVE BOX CULVERT

(Looking North)



PLAN



TYPICAL WALL SECTION

(Looking Northwest or Northeast)

* Pile section, spacing, tip elevation, and shaft diameter to be determined during final design.

APPROVED

AUG 14 2018

AS A BASIS FOR PREPARATION OF DETAILED PLANS

DETAILS
IL ROUTE 251
F.A.P. 46
SECTION (1)I-2
LASALLE COUNTY
STATION 161+89.54 TO 162+41.02
STRUCTURE NO. 050-8802

FILE NAME = D366F12-sht-TSL-CULVERT-DETAIL.dgn	USER NAME = CHAMLIN	DESIGNED JKC	REVISED -
CHAMLIN & ASSOCIATES, INC.		DRAWN LAG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED JKC	REVISED -
	PLOT DATE = $DATE$	DATE 7/5/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=8' | SHEET 2 OF 2 SHEETS | STA. 162+23.20 TO STA. 163+64.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(1)I-2	LaSalle		

CONTRACT NO. 66F12

ILLINOIS FED. AID PROJECT