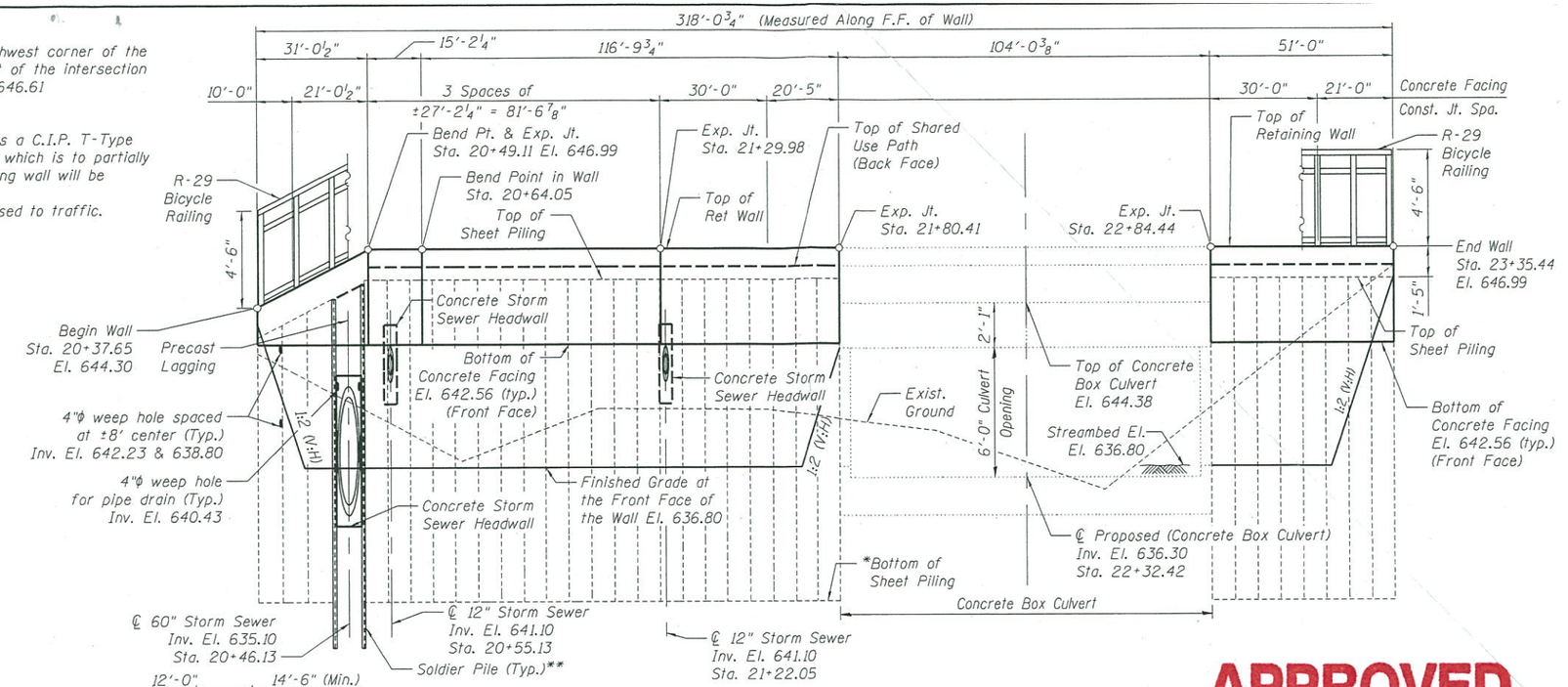
Benchmark:
Square cut in the top of the northwest corner of the headwall in the southeast quadrant of the intersection of IL 68 and Lee Street. Elev. 646.61

Existing Structure:
Built in 1969. Existing Structure is a C.I.P. T-Type reinforced concrete retaining wall which is to partially remain. A new sheet piling retaining wall will be constructed in front of it.
The east leg of IL 68 will be closed to traffic.

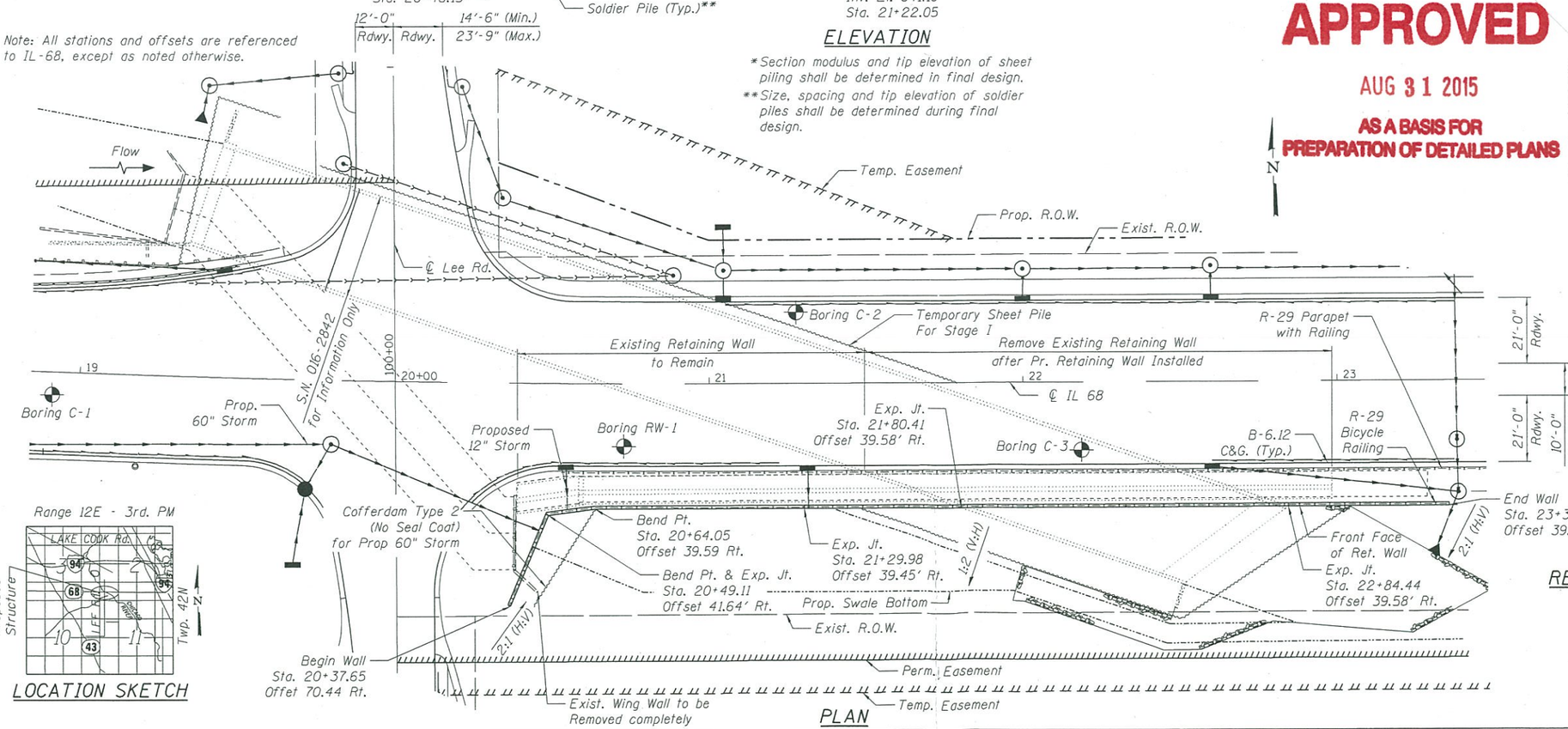
No Salvage



ELEVATION

*Section modulus and tip elevation of sheet piling shall be determined in final design.
**Size, spacing and tip elevation of soldier piles shall be determined during final design.

Note: All stations and offsets are referenced to IL-68, except as noted otherwise.



PLAN

LOCATION SKETCH

APPROVED
AUG 31 2015
AS A BASIS FOR PREPARATION OF DETAILED PLANS

HIGHWAY CLASSIFICATION

F.A.P. Rte. 343 - IL. Rte. 68
Functional Class: Other Principal Arterial
ADT: 30,300 (2008); 31,000 (2030)
ADTT: 910 (2008); 930 (2030)
DHV: 3,190 (2030)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.

Lee Street
Functional Class: Major Collector
ADT: 1,150 (2010)
ADTT: N/A
DHV: N/A
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.

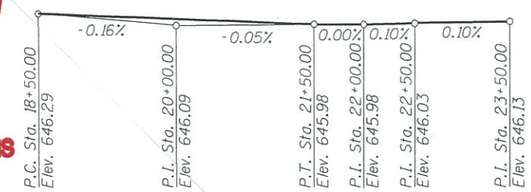
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (ASTM A 72 Grade 50 Sheet Piling)
fy = 50,000 psi (ASTM M270, Grade 50 Soldier Piles)

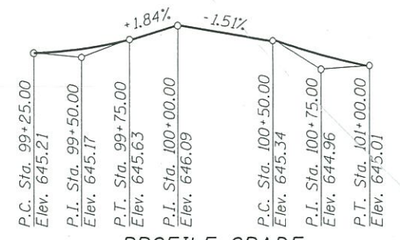
DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition



PROFILE GRADE

(Along ℄ IL 68)
LVC = 300'



PROFILE GRADE

(Along ℄ Lee St.)
LVC = 50'

GENERAL PLAN & ELEVATION
RETAINING WALL ALONG IL 68 (DUNDEE ROAD)
F.A.P. RTE. 343 - SEC 30T-1
COOK COUNTY
STATION 20+37.65 TO 23+35.44
STRUCTURE NO. 016-2281

FILENAME = F:\3-1296.IL68Lu\DRAWINGS\CADDSheets\016Z281-GB113-TSL-001.dgn

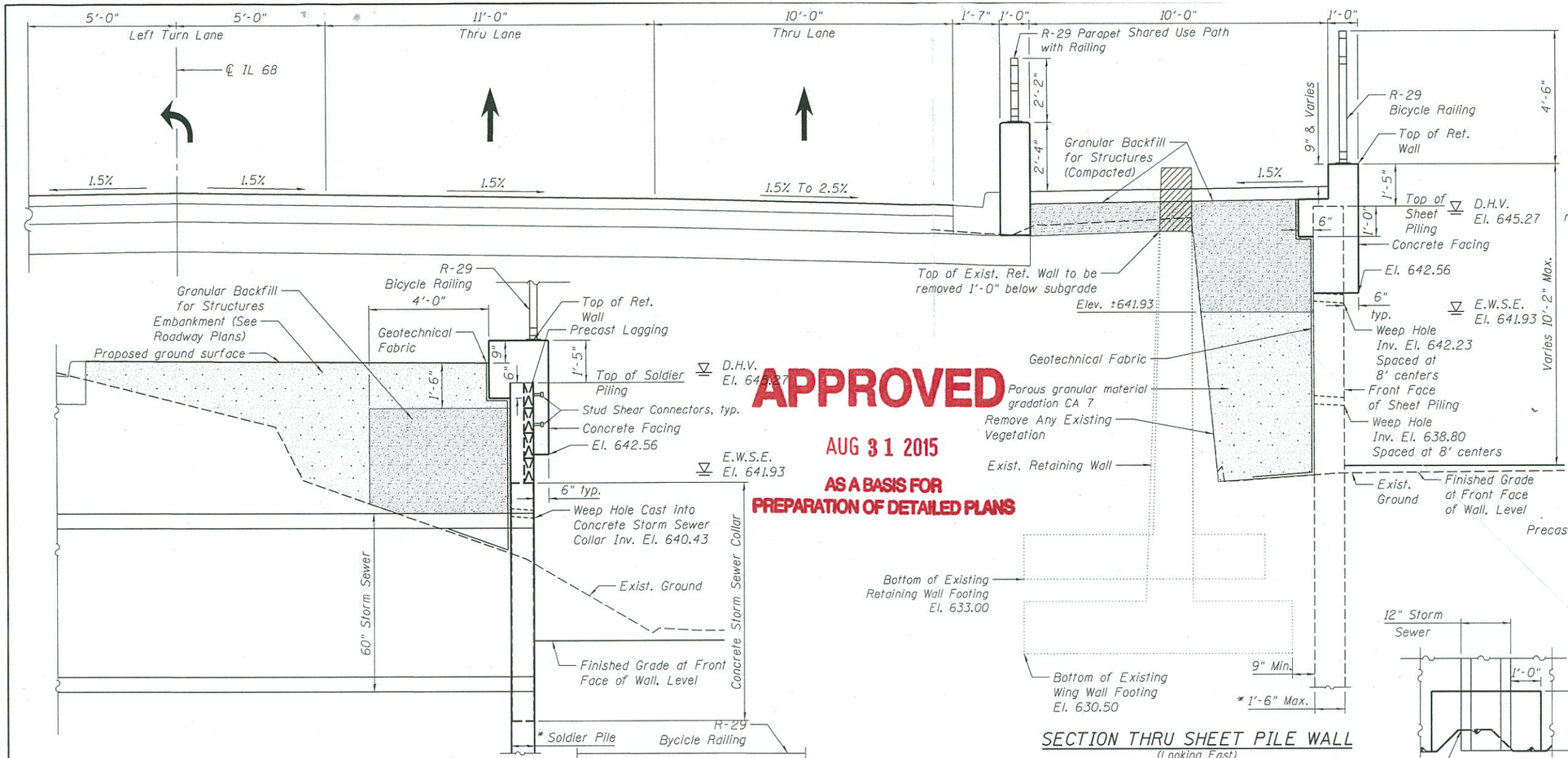
BLOOM COMPANIES, LLC
Infrastructure Generation and Sustainability
600 W. Fulton Street, Suite 701 • Chicago, IL 60661
Phone: (312) 878-9500 Fax: (312) 878-9600

USER NAME = bmattas	DESIGNED - BCM/JRS	REVISED	
	CHECKED - BT	REVISED	
PLOT SCALE = N/A	DRAWN - TVB	REVISED	
PLOT DATE = 7/14/2015	CHECKED - 10/10/2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-2281
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	117	84
		CONTRACT NO. 60J13		
	ILLINOIS FED. AID PROJECT			



SECTION THRU SHEET PILE WALL

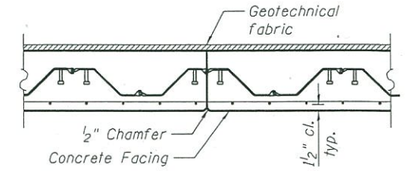
(Looking East)

* Section modulus and tip elevation of sheet piling shall be determined in final design.

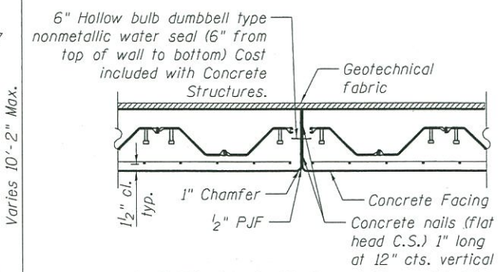
SECTION THRU SOLDIER PILE WALL

(Looking East)

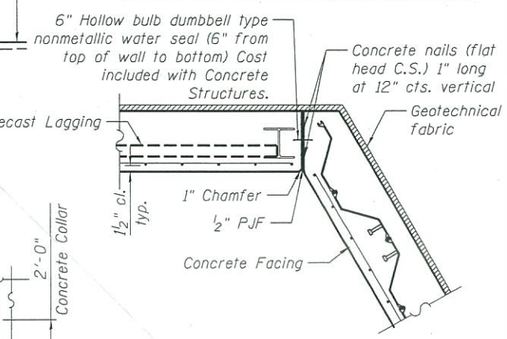
* Size, spacing and tip elevation of soldier piles shall be determined during final design.



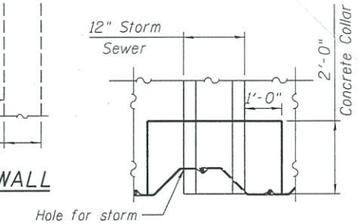
CONSTRUCTION JOINT



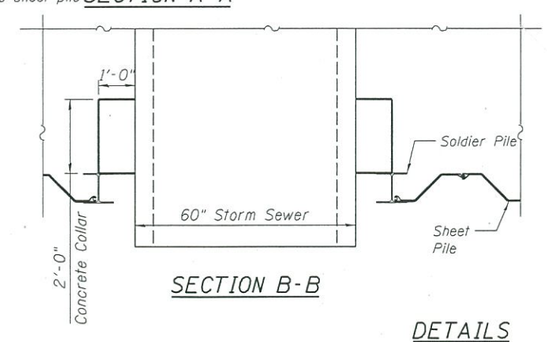
SHEET PILE EXPANSION JOINT



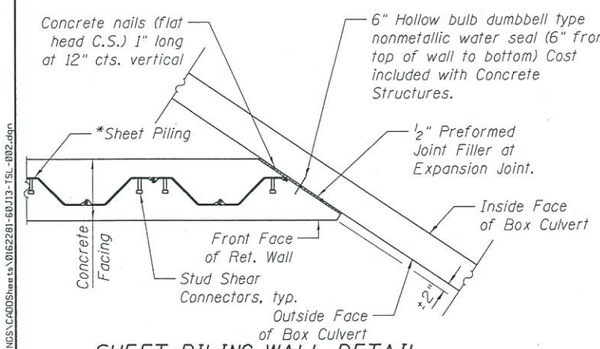
SOLDIER PILE EXPANSION JOINT



SECTION A-A

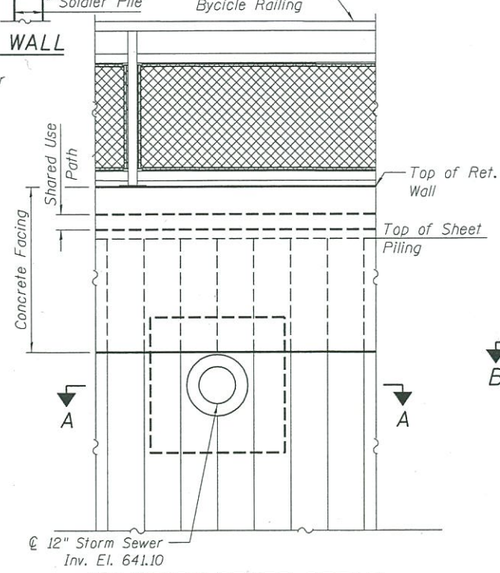


SECTION B-B

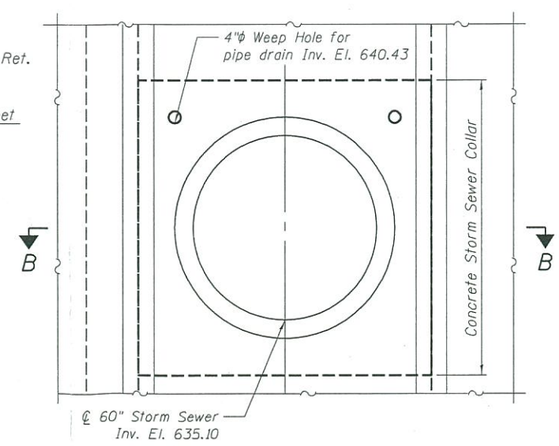


SHEET PILING WALL DETAIL AT BOX CULVERT

* Section modulus and tip elevation of sheet piling shall be determined in final design.



12" STORM SEWER DETAIL



60" STORM SEWER DETAIL

APPROVED

AUG 31 2015

AS A BASIS FOR PREPARATION OF DETAILED PLANS

DETAILS

RETAINING WALL ALONG IL 68 (DUNDEE ROAD)

F.A.P. RTE. 343 - SEC 30T-1

COOK COUNTY

STATION 20+37.65 TO 23+35.44

STRUCTURE NO. 016-2281

FILENAME = F:\3-1296_IL68LJ\DRAWINGS\C4DDSheets\016228I-60J13-TSL-002.dgn

BLOOM COMPANIES, LLC — Infrastructure Innovation and Ingenuity — 600 W. Fulton Street, Suite 701 • Chicago, IL 60661 — Phone: (312) 876-9600 Fax: (312) 876-9600	USER NAME = bmattos	DESIGNED - BCM/JRS	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS STRUCTURE NO. 016-2281
		CHECKED - BT	REVISED		
	PLOT SCALE = N/A	DRAWN - TVB	REVISED		
	PLOT DATE = 7/14/2015	CHECKED - 10/10/2014	REVISED		SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	30T-1	COOK	117	85
		CONTRACT NO. 60J13		
		ILLINOIS FED. AID PROJECT		