

Bench Mark: BM 270-11 - Cut square on the center of the pier base for EB I270 bridge, just east of the east bank of the Chain of Rocks Canal, Elev. 429.361; BM 270-20 - Cut square at SE corner of the pier base for WB I270 bridge over Chain of Rocks Canal, west side of Waterworks Rd (marked BM9), Elev. 443.974.

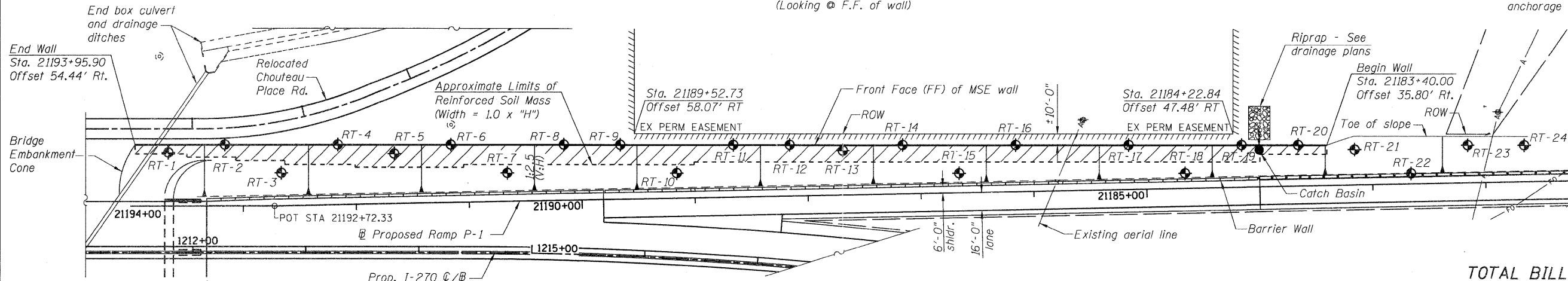
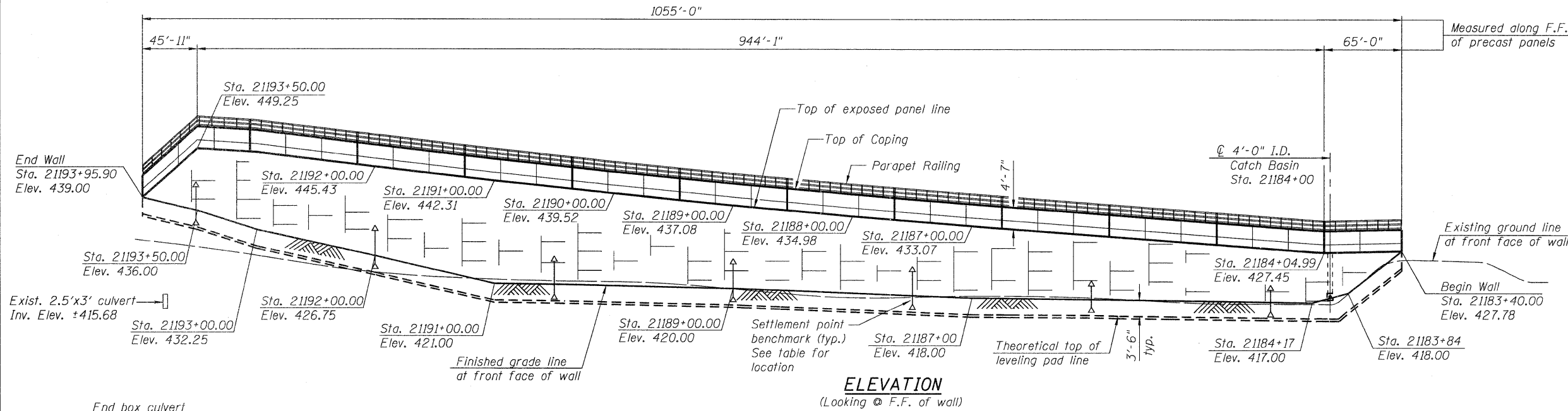
Existing Structures: None.

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GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Maximum applied bearing pressure = 6,600 psf.
4. The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.
5. Slip forming of the parapet and anchorage slab is not allowed.



Note:
Wall offsets are measured from the @ Ramp P-1 to the front face of precast panels.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

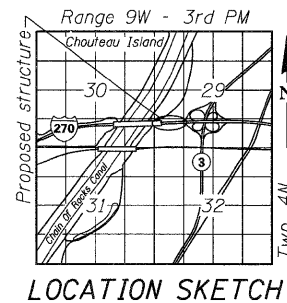
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS
f'c = 4,500 psi (Precast Panels)

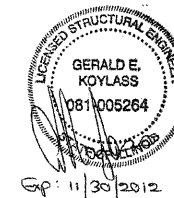
Type	Station	Offset (RT)
Benchmark	21184+50	38'
Benchmark	21186+00	41'
Benchmark	21187+50	44'
Benchmark	21189+00	47'
Benchmark	21190+50	50'
Benchmark	21192+00	53'
Benchmark	21193+50	56'

SETTLEMENT POINT BENCHMARKS

(See Sheet 5 for additional Benchmark Information)



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Gerald E. Koylass
ENGINEER OF BRIDGES AND STRUCTURES



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	3,520
Concrete Structures	Cu Yd	686.1
Reinforcement Bars, Epoxy Coated	Pound	63,620
Parapet Railing	Foot	1,060
Mechanically Stabilized Earth Retaining Wall	Sq Ft	19,560

GENERAL PLAN AND ELEVATION
I-270 OVER CHAIN OF ROCKS CANAL
F.A.I. RTE. 270 - SEC. 60-1B-1
MADISON COUNTY
STATION 21183+40.00 TO 21193+95.90
STRUCTURE NO. 060-W008

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 060W008-76A91-001-CPE.dgn

USER NAME = jehrbart

DESIGNED - JCE
CHECKED - PMH

REVISED - 4/20/11
REVISED -

DRAWN - JCE
CHECKED - PMH

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	513
				CONTRACT NO. T6A91
ILLINOIS FED. AID PROJECT				