BENCHMARKS:
BM "6E" Square cut in northwest corner of southwest handrail (J-Wall) at the southwest abutment of existing I-80 bridge over Burnham Ave. El. 187.309

EXISTING STRUCTURE:
Structure No. 016-0082 Three span, 54.839 m back to back of abutment, continuous non-composite steel multi-beam bridge on multi-column concrete piers and open abutments. 16.98 m between barriers (Each Direction).

SALVAGE: None

STAGING: See sections on Sht. BS-4 for staging.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	631	443
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* (2425 & 2626) R-2 CONTRACT NO. 62111

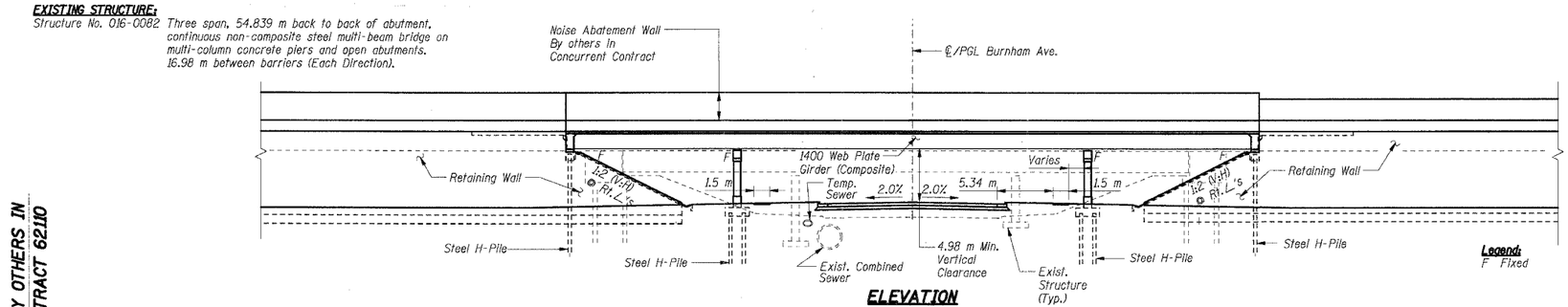
DESIGN SPECIFICATIONS:
2002 AASHTO Standard Specifications for Highway Bridges.

1989 AASHTO Guide Specifications for Structural Design of Sound Barriers with 1992 Interims.

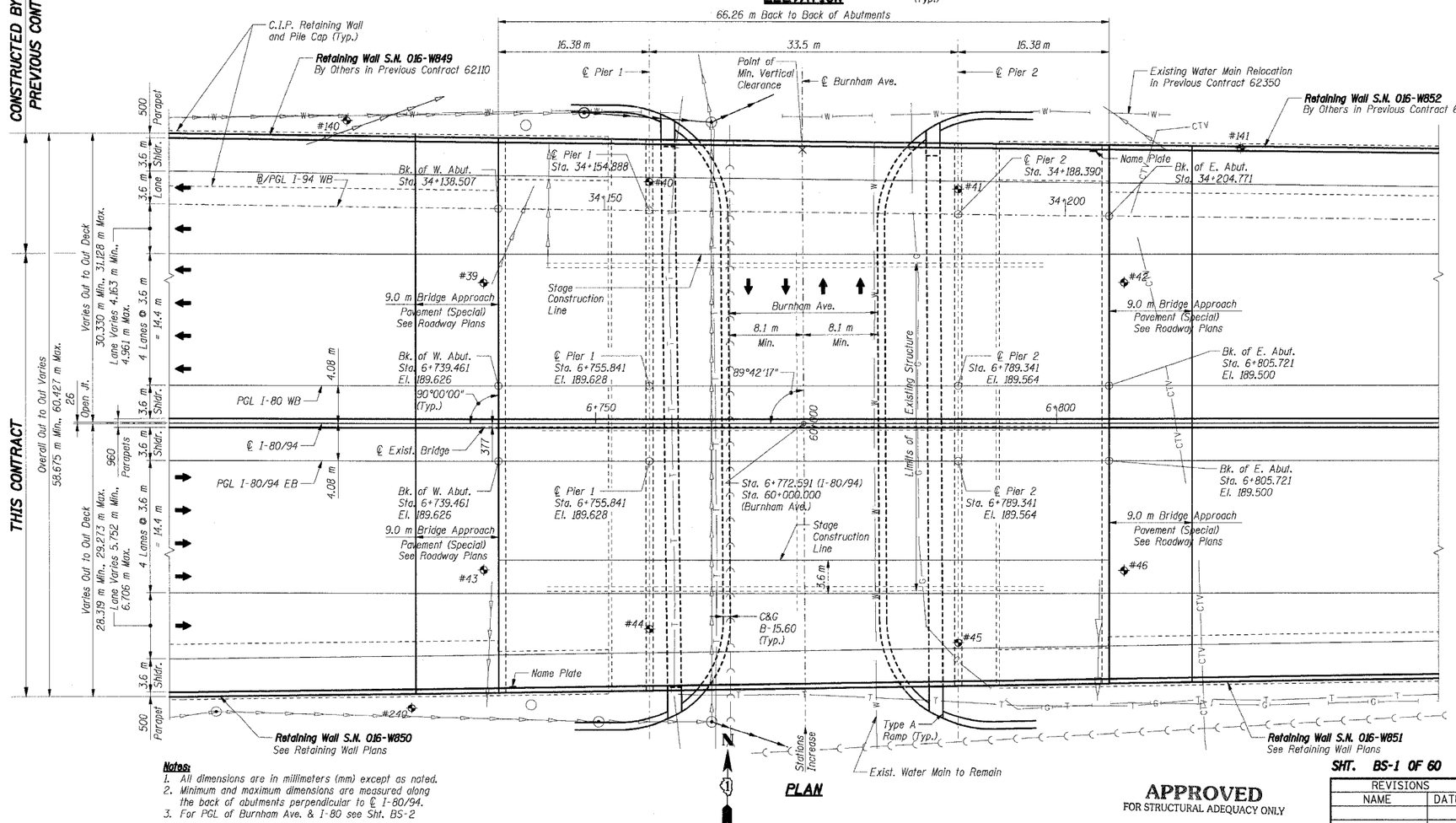
DESIGN LOADING:
Roadway Live Load: MS-18 & Alt.
Future Wearing Surface: 2.4 kN/sq. m.
Noise Abatement Wall:
Wind Load: 1.7 kPa
Design Height: 3.16 m measured from top of parapet

DESIGN STRESSES:
Concrete, f'c: 24 MPa
Reinforcement, fy: 400 MPa
Structural Steel, fy: 345 MPa (M270M Grade 345)
, fy: 250 MPa (M270M Grade 250)

SEISMIC DATA:
Seismic Performance Category (SPC): A
Bedrock Acceleration Coefficient (A): 0.04g
Site Coefficient (S): 1.0

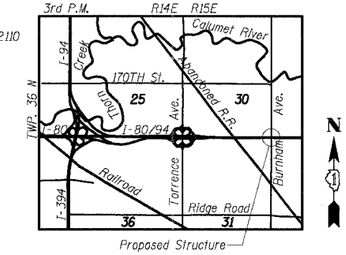


ELEVATION



PLAN

Notes:
1. All dimensions are in millimeters (mm) except as noted.
2. Minimum and maximum dimensions are measured along the back of abutments perpendicular to ℄ I-80/94.
3. For PGL of Burnham Ave. & I-80 see Sht. BS-2



LOCATION MAP

LEGEND
#240 Soil Boring
Exist. Combined Sewer
Existing Gas Main (to be relocated)
Existing Water Main
Existing Telephone
Existing Cable Television (to be relocated by others)
Proposed Storm Sewer (See Drainage Plans)
Existing Storm Sewer (See Drainage Plans)
Existing Manhole (See Drainage Plans)
Existing Catch Basin (See Drainage Plans)
Proposed Manhole (See Drainage Plans)

STATE OF ILLINOIS
VINOD C. PATEL
081-007328
CHICAGO, IL
REGISTERED STRUCTURAL ENGINEER
DATE 7-14-2005
EXP. 11-30-2006

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E Anderson (TJD)
ENGINEER OF BRIDGES AND STRUCTURES

REVISIONS	
NAME	DATE

SHT. BS-1 OF 60

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
I-80/94 OVER BURNHAM AVENUE
STRUCTURE NO. 016-2791 STA. 6+772.591
SECTION 1977-121-R
COOK COUNTY

GENERAL PLAN & ELEVATION

DATE: 7/18/2005
DRAWN BY: LG
CHECKED BY: MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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