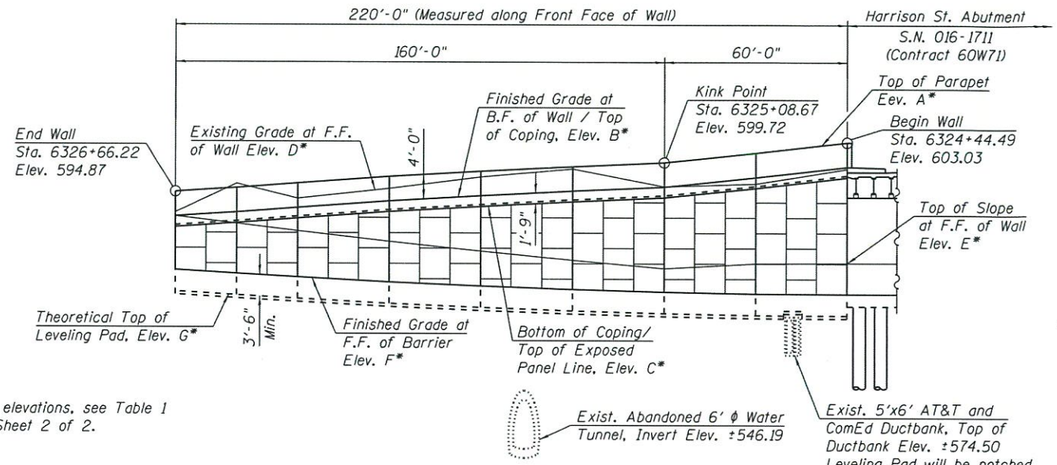
Bench Mark: Chisel "X" on chain bolt of fire hydrant in front of 555 W. Harrison St. Elev. 594.46

Existing Structure: Existing Sheet Pile Wall along Existing Ramp EN.

Traffic on Ramp NE, Des Plaines Street, and Harrison Street will be maintained with stage construction.
The Existing CTA Bus turn around will be closed during construction.

No Salvage.

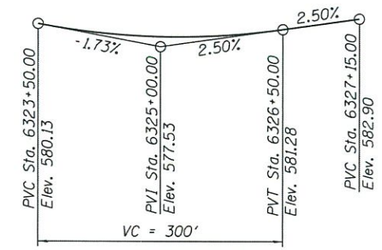
Notes:
1.) Wall offsets are measured from the ℄ of Proposed NB C-D Road to the front face of precast panels.
2.) F.F. denotes Front Face.
3.) B.F. denotes Back Face.
4.) Proposed drainage information shown is conceptual and will be determined during final design.



* For elevations, see Table 1 on Sheet 2 of 2.

ELEVATION

(Looking Southeast at F.F. of Wall.
Proposed Concrete Barrier not shown for clarity.)



PROFILE GRADE

(℄ NB C-D Road)

APPROVED

APR 24 2018

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

CURVE DATA

(NB C-D Road)
Prop. Curve P-NCD-NX-3
P.I. Sta. = 6324+41.27
Δ = 20° 56' 44" (RT)
D = 17° 21' 44"
R = 330.00'
T = 61.00'
L = 120.64'
E = 5.59'
e = 5.80%
T.R. = NA
S.E. Run = 105'
P.C. Sta. = 6323+80.27
P.T. Sta. = 6325+00.91

(NB C-D Road)
Prop. Curve P-NCD-NX-4
P.I. Sta. = 6328+76.78
Δ = 59° 05' 41" (LT)
D = 14° 08' 50"
R = 405.00'
T = 229.58'
L = 417.72'
E = 60.54'
e = 5.40%
T.R. = 36'
S.E. Run = 98'
P.C. Sta. = 6326+47.20
P.T. Sta. = 6330+64.91

HIGHWAY CLASSIFICATION

NB C-D Road
Functional Class: Interstate
ADT: NA (2012); 17,000 (2040)
ADTT: NA (2012); 440 (2040)
DHV: 1,680 (2040)
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.
One-Way Traffic
Directional Distribution: 100%

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge
Design Specifications 8th Edition

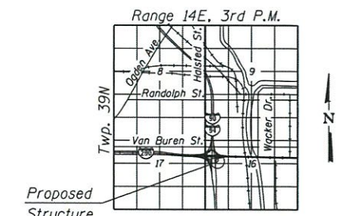
DESIGN STRESSES

FIELD UNITS

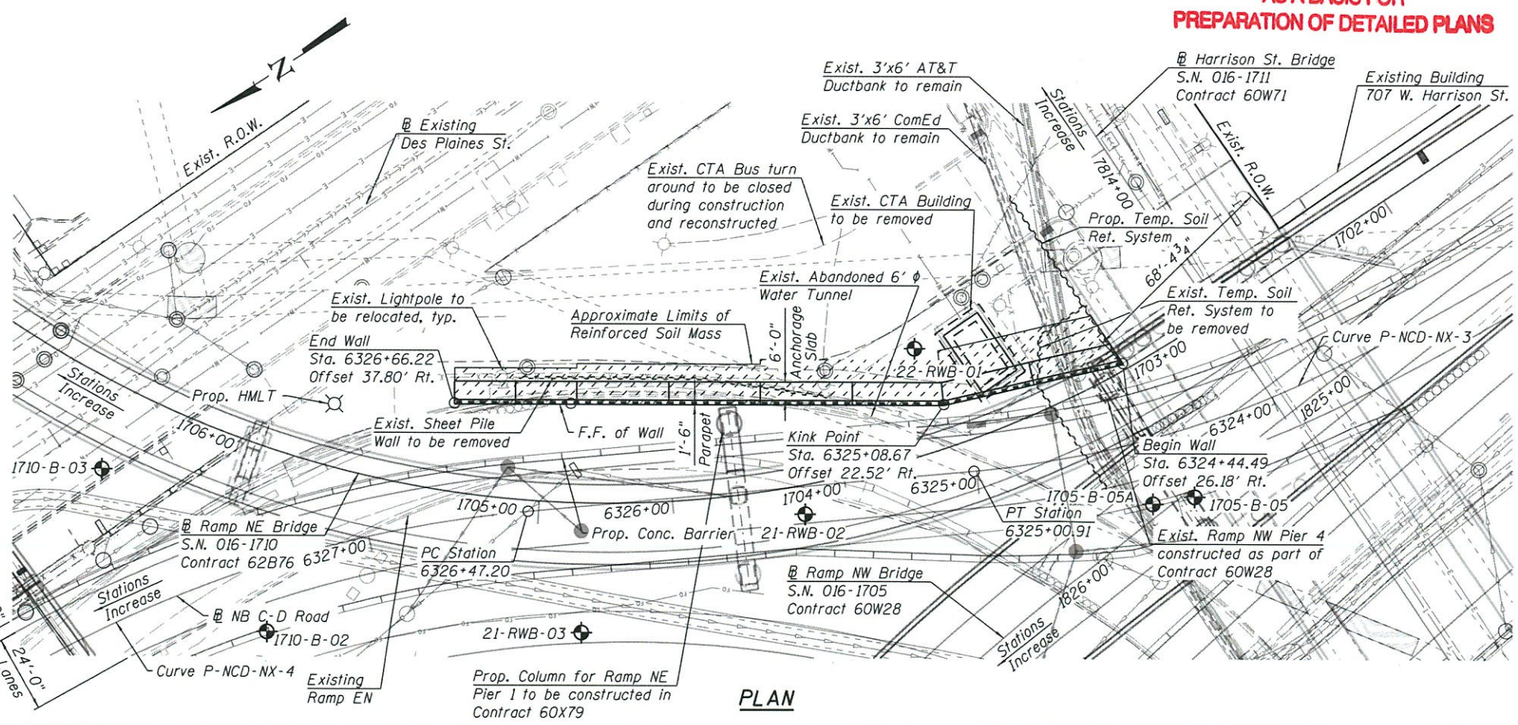
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi



LOCATION SKETCH



PLAN

LEGEND:

Ex. Chain Link Fence	— x — x — x —	Soil Boring	
Combined Sewer		Existing Catch Basin	
Electric	—— E —— E ——	Proposed Catch Basin	
Ex. Storm Sewer		Existing Manhole	
Prop. Storm Sewer		Proposed Manhole	
Ex. ITS Cable		Proposed Inlet	
Ex. Gas Line	—— G ——	Limits of Soil Reinforcement	
Ex. Fiber Optic	—— FO —— FO ——		
Ex. AT&T Line	—— T —— T ——		

GENERAL PLAN
RETAINING WALL 22A ALONG NB C-D ROAD
F.A.I. RTE. 90/94 (KENNEDY EXPRESSWAY)
SECTION 2014-005R&B
COOK COUNTY
STATION 6324+44.49 TO STATION 6326+66.22
STRUCTURE NO. 016-1813

TranSystems	USER NAME = wjcolletti	DESIGNED - WJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JM/MDS	REVISED -			90/94	2014-005R&B	COOK	2	1
	PLOT SCALE = 48.00 ' / in.	DRAWN - WJC	REVISED -					CONTRACT NO. 60X79		
	PLOT DATE = 4/10/2018	CHECKED - JM/MDS	REVISED -		SHEET NO. 1 OF 2 SHEETS			ILLINOIS FED. AID PROJECT		

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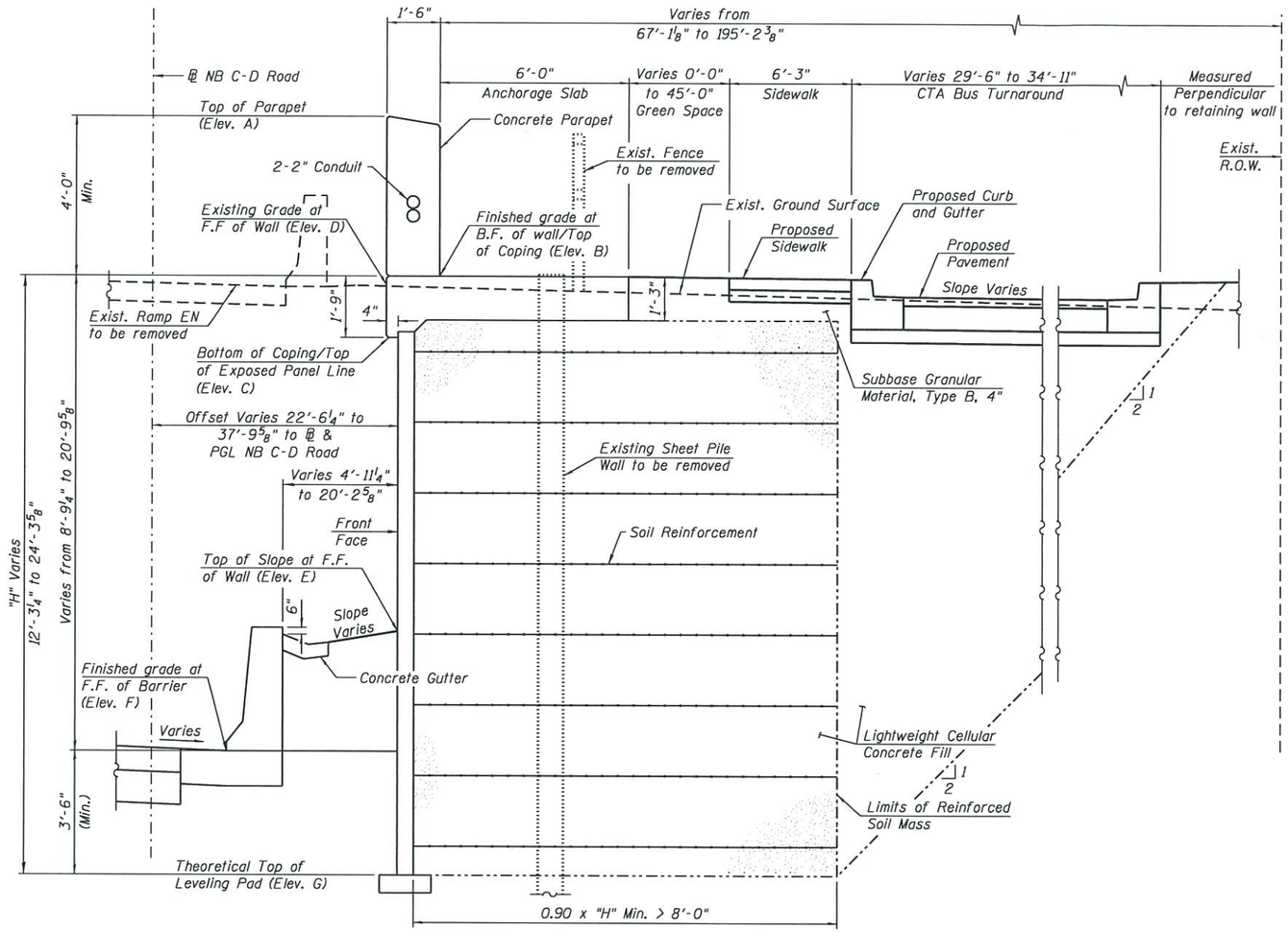

TYPICAL CROSS SECTION

(Looking Upstation)

TABLE 1 - WALL ELEVATIONS

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
6324+44.49	26.18' Rt.	603.03	599.03	597.28	598.68	583.30	578.23	574.73
6324+77.06	25.77' Rt.	601.28	597.28	595.53	596.25	583.19	578.25	574.75
6325+08.67	22.52' Rt.	599.72	595.72	593.97	595.77	582.42	578.57	575.07
6325+38.54	25.29' Rt.	599.03	595.03	593.28	598.66	583.75	578.97	575.47
6325+68.41	28.07' Rt.	598.24	594.24	592.49	597.32	585.20	579.49	575.99
6325+98.29	30.84' Rt.	597.38	593.38	591.63	595.41	586.78	580.15	576.65
6326+28.16	33.61' Rt.	596.28	592.28	590.53	593.77	588.48	580.93	577.43
6326+48.00	35.46' Rt.	595.53	591.53	589.78	596.21	589.68	581.52	578.02
6326+66.22	37.80' Rt.	594.87	590.87	589.12	591.51	590.87	582.10	578.60

Elevation A- Top of Parapet
Elevation B- Finished Grade at Back Face of Wall / Top of Coping
Elevation C- Bottom of Coping / Top of Exposed Panel Line
Elevation D- Existing Grade at Front Face of Wall
Elevation E- Top of Slope at Front Face of Wall
Elevation F- Finished Grade at Front Face of Barrier
Elevation G- Theoretical Top of Leveling Pad

APPROVED

APR 24 2018

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

CROSS SECTIONS AND DETAILS
RETAINING WALL 22A ALONG NB C-D ROAD
F.A.I. RTE. 90/94 (KENNEDY EXPRESSWAY)
SECTION 2014-005R&B
COOK COUNTY
STATION 6324+44.49 TO STATION 6326+66.22
STRUCTURE NO. 016-1813

TranSystems	USER NAME = wjcolletti	DESIGNED - WJC	REVISED -
		CHECKED - JM/MDS	REVISED -
	PLOT SCALE = 0.17 ' / in.	DRAWN - WJC	REVISED -
	PLOT DATE = 4/18/2018	CHECKED - JM/MDS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2014-005R&B	COOK	2	2
		CONTRACT NO. 60X79		
	ILLINOIS	FED. AID PROJECT		

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