Part of NW 1/4 Section 10, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.

OWNERSHIP TABLE

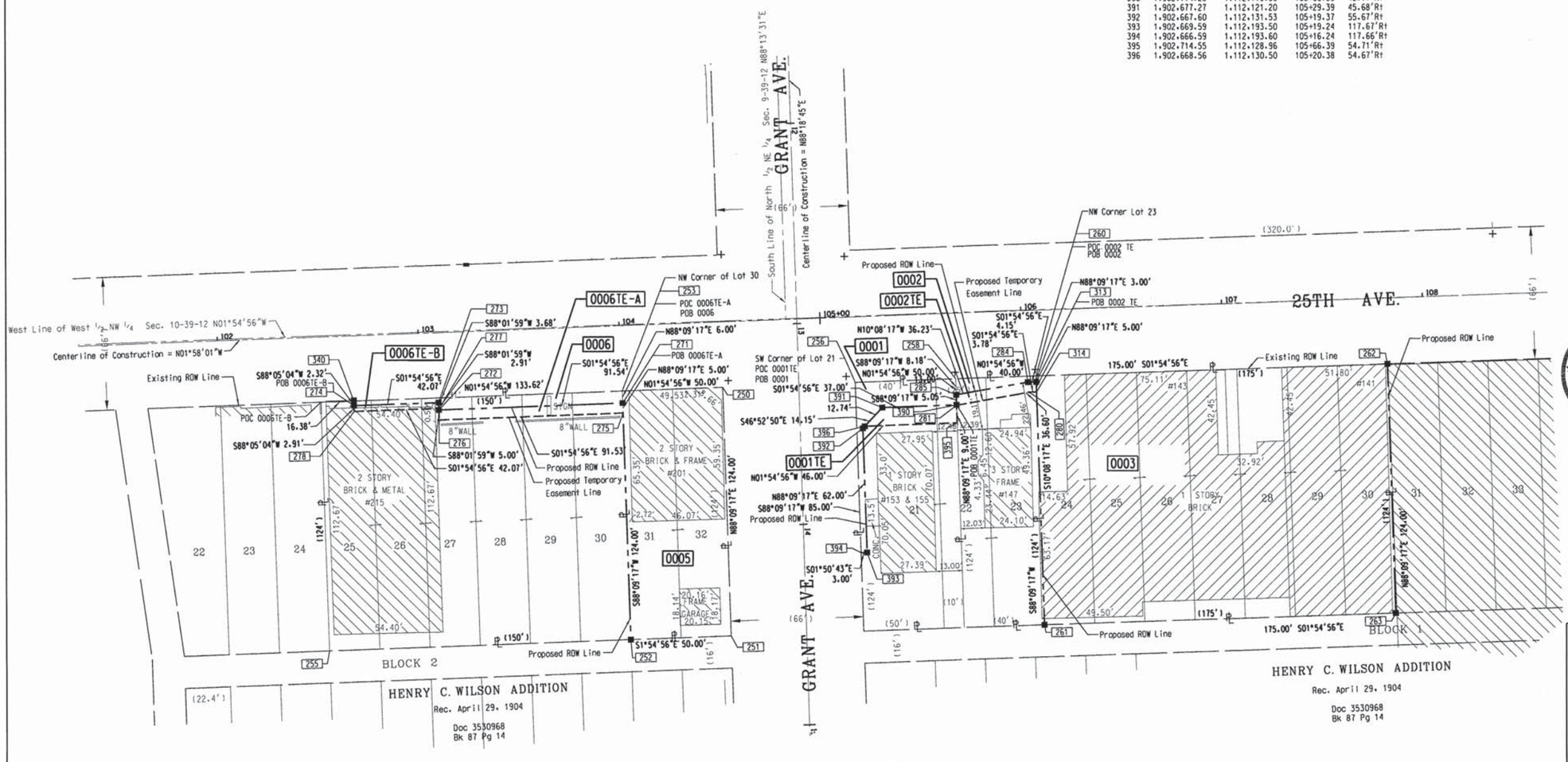
PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
0001 0001TE	0.142	0.021			0.121	0.009	374	CONSTRUCTION	15-10-112-026 15-10-112-034
0002 0002TE	0.114	0.005	213		0.109	0.005	202	CONSTRUCTION	15-10-112-033
0003	0.498	0.498			0.000				15-10-112-010 15-10-112-011 15-10-112-012 15-10-112-013 15-10-112-014 15-10-112-015
0005	0.142	0.142			0.000				15-10-113-001 15-10-113-002
0006 0006TE-A 0006TE-B	0.427	0.015			0.412	0.011 0.003	122	CONSTRUCTION	15-10-113-003 15-10-113-004 15-10-113-005 15-10-113-006

- NAD 83(2011) ILLINOIS EAST STATE PLANE ZONE -

COORDINATES SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES. COMBINED SCALE FACTOR IS 0.99996489
-- PROPOSED R.O.W. AND CENTERLINE CONTROL POINTS --
STATE PLANE COORDINATES

POINT	NORTH	EAST
AJ2805 NAD83(2011)	1.909.480.922	1.118.826.732
AJ2809 NAD83(2011)	1.909.574.314	1.116.660.165

Point	North	East	Station	Offset
250	1.902.597.89	1.112.110.85	104+50.42	32.60'Rt
251	1.902.601.88	1.112.234.78	104+50.16	156.60'Rt
252	1.902.551.91	1.112.236.45	104+00.16	156.56'Rt
253	1.902.547.92	1.112.112.52	104+00.42	32.56'Rt
255	1.902.402.00	1.112.241.47	102+50.16	156.43'Rt
256	1.902.663.85	1.112.108.64	105+16.42	32.66'Rt
257	1.902.667.85	1.112.232.58	105+16.16	156.66'Rt
258	1.902.713.83	1.112.106.97	105+66.42	32.17'Rt
259	1.902.717.82	1.112.230.92	105+66.16	156.72'Rt
260	1.902.753.80	1.112.105.63	106+06.42	32.74'Rt
261	1.902.757.80	1.112.229.57	106+06.16	156.74'Rt
262	1.902.928.71	1.112.099.78	107+81.42	32.90'Rt
263	1.902.932.70	1.112.223.72	107+81.16	156.90'Rt
271	1.902.548.11	1.112.118.52	104+00.41	38.56'Rt
272	1.902.456.62	1.112.121.58	103+08.87	38.48'Rt
273	1.902.456.50	1.112.117.90	103+08.87	34.80'Rt
274	1.902.414.45	1.112.119.30	102+66.80	34.76'Rt
275	1.902.548.27	1.112.123.51	104+00.40	43.56'Rt
276	1.902.456.79	1.112.126.57	103+08.87	43.48'Rt
277	1.902.456.60	1.112.120.80	103+08.87	37.70'Rt
278	1.902.414.54	1.112.122.21	102+66.79	37.67'Rt
280	1.902.750.28	1.112.113.76	106+02.63	40.74'Rt
281	1.902.714.25	1.112.120.20	105+66.39	45.94'Rt
284	1.902.749.76	1.112.108.77	106+02.27	35.74'Rt
285	1.902.714.09	1.112.115.15	105+66.40	40.89'Rt
313	1.902.753.90	1.112.108.63	106+06.42	35.74'Rt
314	1.902.754.06	1.112.113.63	106+06.41	40.74'Rt
340	1.902.414.37	1.112.116.99	102+66.80	32.44'Rt
390	1.902.714.25	1.112.119.96	105+66.39	45.71'Rt
391	1.902.677.27	1.112.121.20	105+29.39	45.68'Rt
392	1.902.667.60	1.112.131.53	105+19.37	55.67'Rt
393	1.902.669.59	1.112.193.50	105+19.24	117.67'Rt
394	1.902.666.59	1.112.193.60	105+16.24	117.66'Rt
395	1.902.714.55	1.112.128.96	105+66.39	54.71'Rt
396	1.902.668.56	1.112.130.50	105+20.38	54.67'Rt



LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
129.32' MEASURED DIMENSION
129.32'(COMP.) COMPUTED DIMENSION
( ) RECORD DATA
EXISTING BUILDING

30 15 0 30
SCALE 1" = 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

O IRON PIPE OR ROD FOUND
⊕ "MAG" NAIL SET
+ CUT CROSS FOUND OR SET
● 5/8" REBAR SET

● T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE., IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER. I.D.O.T. STD 2135 (TO BE SET BY OTHERS).

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, BEN B. POCHYLA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTIONS 3,4 TOWNSHIP 39 NORTH, RANGE 12 EAST, AND SECTIONS 9,10 TOWNSHIP 39 NORTH, RANGE 12 EAST, OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO ILLINOIS THIS 10th DAY OF March 2013 A.D.

STATE OF ILLINOIS
BEN B. POCHYLA
3139
PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3139
LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GLOBETROTTERS
300 S. WACKER DR., CHICAGO, IL 60606
(312) 922-6400 (312) 922-6558 FAX

CONTRACT 63887

TOTAL SHEETS 240 SHEET NO. 101

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
25th AVENUE

LIMITS: IL64 TO US20	COUNTY: COOK
SECTION: 99-00094-00-GS	JOB NO.: R-90-028-13
STATION 102+67	TO STATION 106+16
SCALE: 1" = 30'	SHEET 3 OF 7

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: REVISION MADE BY

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7/29/2014

Part of NE 1/4 Section 9, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.

OWNERSHIP TABLE

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
00014 0014PE 0014TE-A 0014TE-B	11.798	0.112			11.686	0.638 TE-A : 0.042 TE-B : 0.047		CONSTRUCTION	15-09-201-003 15-09-201-005 15-09-201-019

CURVE DATA TABLE

	CURVE 1	CURVE 2	CURVE 3
P.I. STA =	55+95.50	57+84.78	58+36.95
Δ =	100°05'03" RT	36°56'13" RT	47°04'21" LT
D =	90°56'44"	65°06'32"	100°31'08"
R =	63.00'	88.00'	57.00'
T =	75.19'	29.39'	24.83'
L =	110.05'	56.73'	46.83'
E =	35.10'	4.78'	5.17'
S.E. =			
P.C. STA=	55+20.30	57+55.39	58+12.12
P.T. STA=	56+30.35	58+12.12	58+58.95

- NAD 83(2011) ILLINOIS EAST STATE PLANE ZONE -

COORDINATES SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES. COMBINED SCALE FACTOR IS 0.99996489
-- PROPOSED R.O.W. AND CENTERLINE CONTROL POINTS --
STATE PLANE COORDINATES

POINT	NORTH	EAST
AJ2805 NAD83(2011)	1,909,480.922	1,118,826.732
AJ2809 NAD83(2011)	1,909,574.314	1,116,660.165

Point	North	East	Station	Offset
267	1,902,653.01	1,111,775.34	105+17.02	300.82'Lt
268	1,902,661.29	1,112,042.69	105+16.13	33.34'Lt
269	1,903,229.28	1,112,023.69	110+84.43	32.83'Lt
286	1,903,230.01	1,112,018.67	110+85.33	37.83'Lt
287	1,902,950.59	1,112,028.01	108+05.76	38.08'Lt
288	1,902,759.79	1,112,028.36	106+15.06	44.27'Lt
289	1,902,759.74	1,112,029.36	106+14.97	43.28'Lt
290	1,902,729.35	1,112,027.77	105+84.66	45.91'Lt
291	1,902,729.41	1,112,026.77	105+84.74	46.91'Lt
292	1,902,672.69	1,112,023.79	105+28.17	51.83'Lt
293	1,902,663.67	1,112,011.90	105+19.56	64.03'Lt
294	1,902,660.16	1,111,898.66	105+19.94	177.32'Lt
295	1,902,656.84	1,111,898.76	105+16.61	177.34'Lt
299	1,902,653.94	1,111,805.32	105+16.92	270.82'Lt
300	1,902,663.70	1,111,805.00	105+26.69	270.81'Lt
301	1,902,668.48	1,112,009.96	105+24.43	65.80'Lt
302	1,902,675.27	1,112,018.92	105+30.91	56.61'Lt
303	1,902,729.67	1,112,021.78	105+85.18	51.89'Lt
304	1,902,788.98	1,112,025.71	106+44.32	45.93'Lt
305	1,902,788.89	1,112,023.31	106+44.32	48.33'Lt
306	1,902,950.58	1,112,023.01	108+05.92	43.08'Lt
307	1,903,172.51	1,112,015.38	110+27.98	43.08'Lt
308	1,903,169.34	1,112,020.70	110+24.63	37.88'Lt
309	1,903,155.57	1,111,788.55	110+18.83	270.37'Lt
310	1,903,222.08	1,111,862.75	110+82.76	193.93'Lt
311	1,903,208.93	1,111,954.37	110+66.47	102.80'Lt
312	1,903,267.89	1,111,754.77	111+32.24	300.26'Lt
373	1,902,626.38	1,111,790.24	104+89.89	286.84'Lt
374	1,903,173.46	1,111,771.94	110+37.28	286.35'Lt
375	1,903,237.93	1,111,843.86	110+99.24	212.26'Lt
376	1,903,220.16	1,111,967.62	110+77.24	89.18'Lt
377	1,903,195.16	1,112,017.46	110+50.55	40.23'Lt
378	1,903,178.43	1,112,059.80	110+32.37	1.51'Rt
379	1,903,179.51	1,112,091.39	110+32.37	33.13'Rt
380	1,902,729.78	1,112,040.40	105+84.65	33.27'Lt

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
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- PLATTED LOT LINE
- PROPERTY (DEED) LINE
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- 129.32'(COMP.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

30 15 0 30
SCALE 1" = 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- "MAG" NAIL SET
- 5/8" REBAR SET

- T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, BEN B. POCHYLA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTIONS 3,4 TOWNSHIP 39 NORTH, RANGE 12 EAST, AND SECTIONS 9,10 TOWNSHIP 39 NORTH, RANGE 12 EAST, OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY. THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO ILLINOIS THIS 10th DAY OF March 2013 A.D.

STATE OF ILLINOIS — BEN B. POCHYLA 3139 — PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3139
LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GLOBETROTTERS
300 S. WACKER DR., CHICAGO, IL 60606
(312) 922-6400 (312) 922-6558 FAX

CONTRACT 63887

TOTAL SHEETS 240 SHEET NO. 102

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
25th AVENUE

LIMITS: IL64 TO US20 COUNTY: COOK
SECTION: 99-00094-00-GS JOB NO.: R-90-028-13
STATION 105+27 TO STATION 111+32
SCALE: 1" = 30' SHEET 4 OF 7

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: REVISION MADE BY

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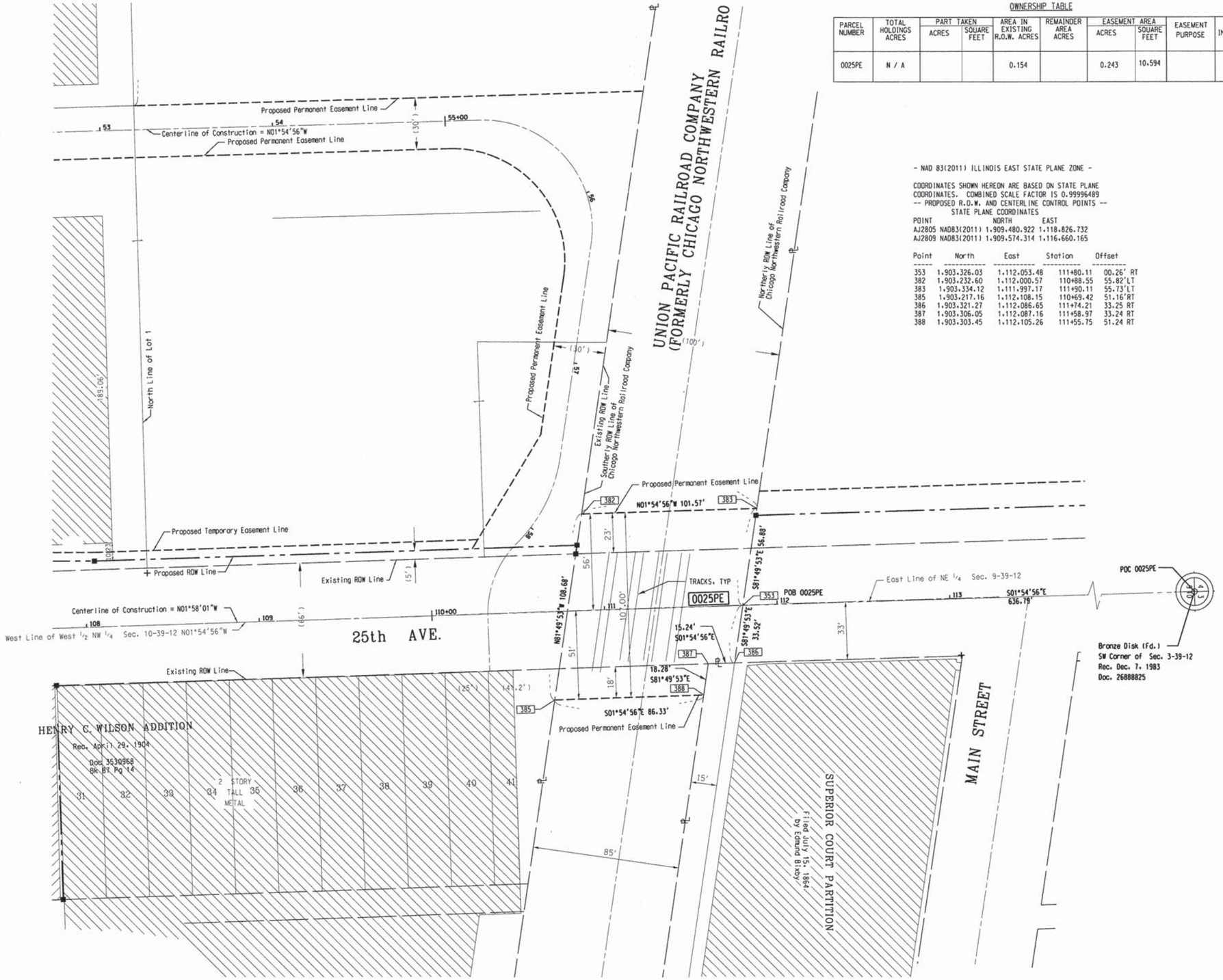
7/29/2014



Part of NE 1/4 Section 9, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.

Part of NW 1/4 Section 10, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.

OWNERSHIP TABLE

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
0025PE	N / A			0.154		0.243	10,594		15-09-500-001 15-10-500-008

- NAD 83(2011) ILLINOIS EAST STATE PLANE ZONE -

COORDINATES SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES. COMBINED SCALE FACTOR IS 0.99996489
-- PROPOSED R.O.W. AND CENTERLINE CONTROL POINTS --
STATE PLANE COORDINATES

POINT	NORTH	EAST
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AJ2809 NAD83(2011)	1,909,574.314	1,116,660.165

Point	North	East	Station	Offset
353	1,903,326.03	1,112,053.48	111+80.11	00.26' RT
382	1,903,232.60	1,112,000.57	110+88.55	55.82'LT
383	1,903,334.12	1,111,997.17	111+90.11	55.73'LT
385	1,903,217.16	1,112,108.15	110+69.42	51.16'RT
386	1,903,321.27	1,112,086.65	111+74.21	33.25 RT
387	1,903,306.05	1,112,087.16	111+58.97	33.24 RT
388	1,903,303.45	1,112,105.26	111+55.75	51.24 RT

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
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- PROPOSED RIGHT OF WAY LINE
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- 129.32'(COMP.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

30 15 0 30
SCALE 1" = 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET

- ● T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER. I.D.O.T. STD 2135 (TO BE SET BY OTHERS).
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, BEN B. POCHYLA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTIONS 3,4 TOWNSHIP 39 NORTH, RANGE 12 EAST, AND SECTIONS 9,10 TOWNSHIP 39 NORTH, RANGE 12 EAST, OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO ILLINOIS THIS 10th DAY OF March 2013 A.D.

STATE OF ILLINOIS ★ BEN B. POCHYLA 3139 ★ PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3139
LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GLOBETROTTERS
300 S. WACKER DR., CHICAGO, IL 60606
(312) 922-6400 (312) 922-6558 FAX

CONTRACT 63887

TOTAL SHEETS 240 SHEET NO. 103

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
25th AVENUE

LIMITS: IL64 TO US20 COUNTY: COOK
SECTION: 99-00094-00-GS JOB NO.: R-90-028-13
STATION 110+84 TO STATION 111+75
SCALE: 1" = 30' SHEET 5 OF 7

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: REVISION MADE BY

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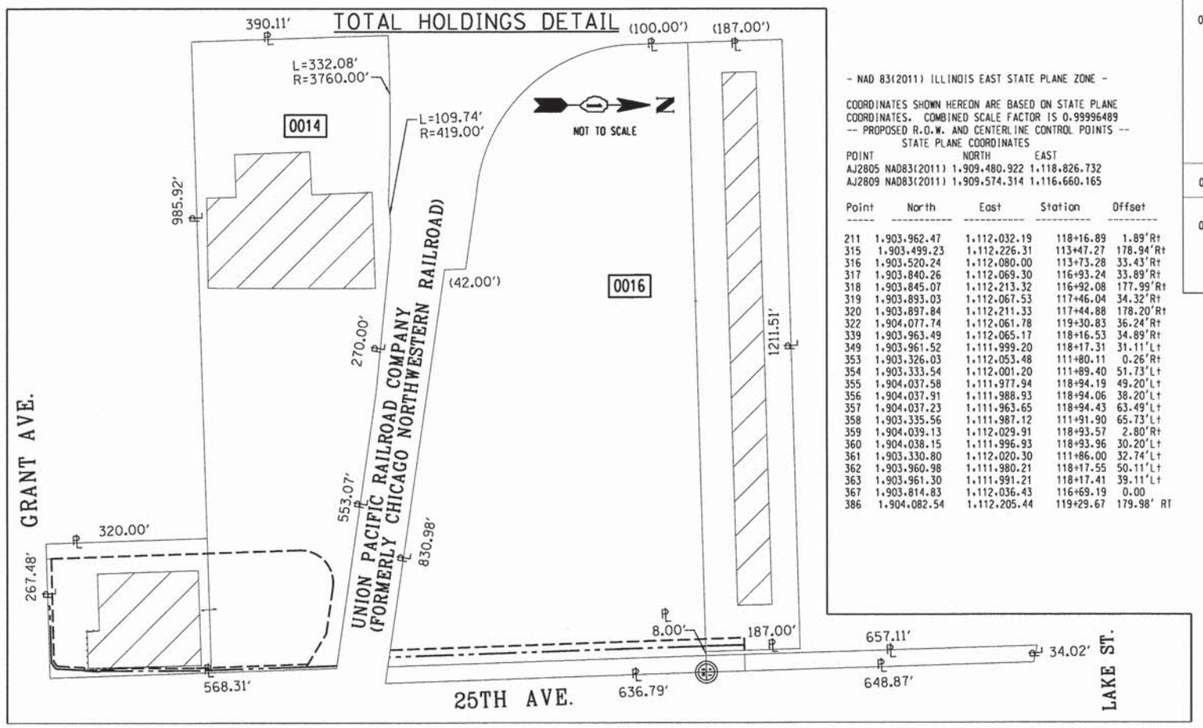
3/21/2014

Part of SW 1/4 Section 3, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.
Part of SE 1/4 Section 4, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.
Part of NE 1/4 Section 9, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.
Part of NW 1/4 Section 10, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.

TOTAL HOLDINGS DETAIL



- NAD 83(2011) ILLINOIS EAST STATE PLANE ZONE -

COORDINATES SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES. COMBINED SCALE FACTOR IS 0.99996489
-- PROPOSED R.O.W. AND CENTERLINE CONTROL POINTS --
STATE PLANE COORDINATES

POINT	NORTH	EAST
AJ2805 NAD83(2011)	1,909,480.922	1,118,826.732
AJ2809 NAD83(2011)	1,909,574.314	1,116,660.165

Point	North	East	Station	Offset
211	1,903,962.47	1,112,032.19	118+16.89	1.89'Rt
315	1,903,499.23	1,112,226.31	113+47.27	178.94'Rt
316	1,903,520.24	1,112,080.00	113+73.28	33.43'Rt
317	1,903,840.26	1,112,069.30	116+93.24	33.89'Rt
318	1,903,845.07	1,112,213.32	116+92.08	177.99'Rt
319	1,903,893.03	1,112,067.53	117+46.04	34.32'Rt
320	1,903,897.84	1,112,211.33	117+44.88	178.20'Rt
322	1,904,077.74	1,112,061.78	119+30.83	36.24'Rt
339	1,903,963.49	1,112,065.17	118+16.53	34.89'Rt
349	1,903,961.52	1,111,999.20	118+17.31	31.11'Lt
353	1,903,326.03	1,112,053.48	111+80.11	0.26'Rt
354	1,903,333.54	1,112,001.20	111+89.40	51.73'Lt
355	1,904,037.58	1,111,977.94	118+94.19	49.20'Lt
356	1,904,037.91	1,111,988.93	118+94.06	38.20'Lt
357	1,904,037.23	1,111,963.65	118+94.43	63.49'Lt
358	1,903,335.56	1,111,987.12	111+91.90	65.73'Lt
359	1,904,039.13	1,112,029.91	118+93.57	2.80'Rt
360	1,904,038.15	1,111,996.93	118+93.96	30.20'Lt
361	1,903,330.80	1,112,020.30	111+86.00	32.74'Lt
362	1,903,960.98	1,111,980.21	118+17.55	50.11'Lt
363	1,903,961.30	1,111,991.21	118+17.41	39.11'Lt
367	1,903,814.83	1,112,036.43	116+69.19	0.00
386	1,904,082.54	1,112,205.44	119+29.67	179.98' RT

OWNERSHIP TABLE

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
0016 0016PE	20.881	0.832		0.538	20.049	0.226			15-04-412-008 15-09-201-001
0020	1.107	1.107			0.000				15-10-100-022 15-10-100-023 15-10-100-024 15-10-100-025 15-10-100-026 15-10-100-027 15-10-100-028 15-10-100-029 15-10-100-030 15-10-100-031 15-10-100-032
0021	0.175	0.175			0.000				15-10-100-075
0022	0.610	0.610			0.000				15-10-100-014 15-10-100-015 15-10-100-016 15-10-100-017 15-10-100-018 15-10-100-019

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER. QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 129.32' — MEASURED DIMENSION
- 129.32'(COMP.) ( ) — COMPUTED DIMENSION / RECORD DATA
- EXISTING BUILDING

30 15 0 30
SCALE 1" = 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET

- ● T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER. I.D.O.T. STD 2135 (TO BE SET BY OTHERS).
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, BEN B. POCHYLA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTIONS 3,4 TOWNSHIP 39 NORTH, RANGE 12 EAST, AND SECTIONS 9,10 TOWNSHIP 39 NORTH, RANGE 12 EAST, OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO ILLINOIS THIS 10th DAY OF March 2013 A.D.

STATE OF ILLINOIS — BEN B. POCHYLA 3139 — PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3139
LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GLOBETROTTERS
300 S. WACKER DR., CHICAGO, IL 60606
(312) 922-6400 (312) 922-6558 FAX

CONTRACT 63887

TOTAL SHEETS 240 SHEET NO. 104

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
25th AVENUE

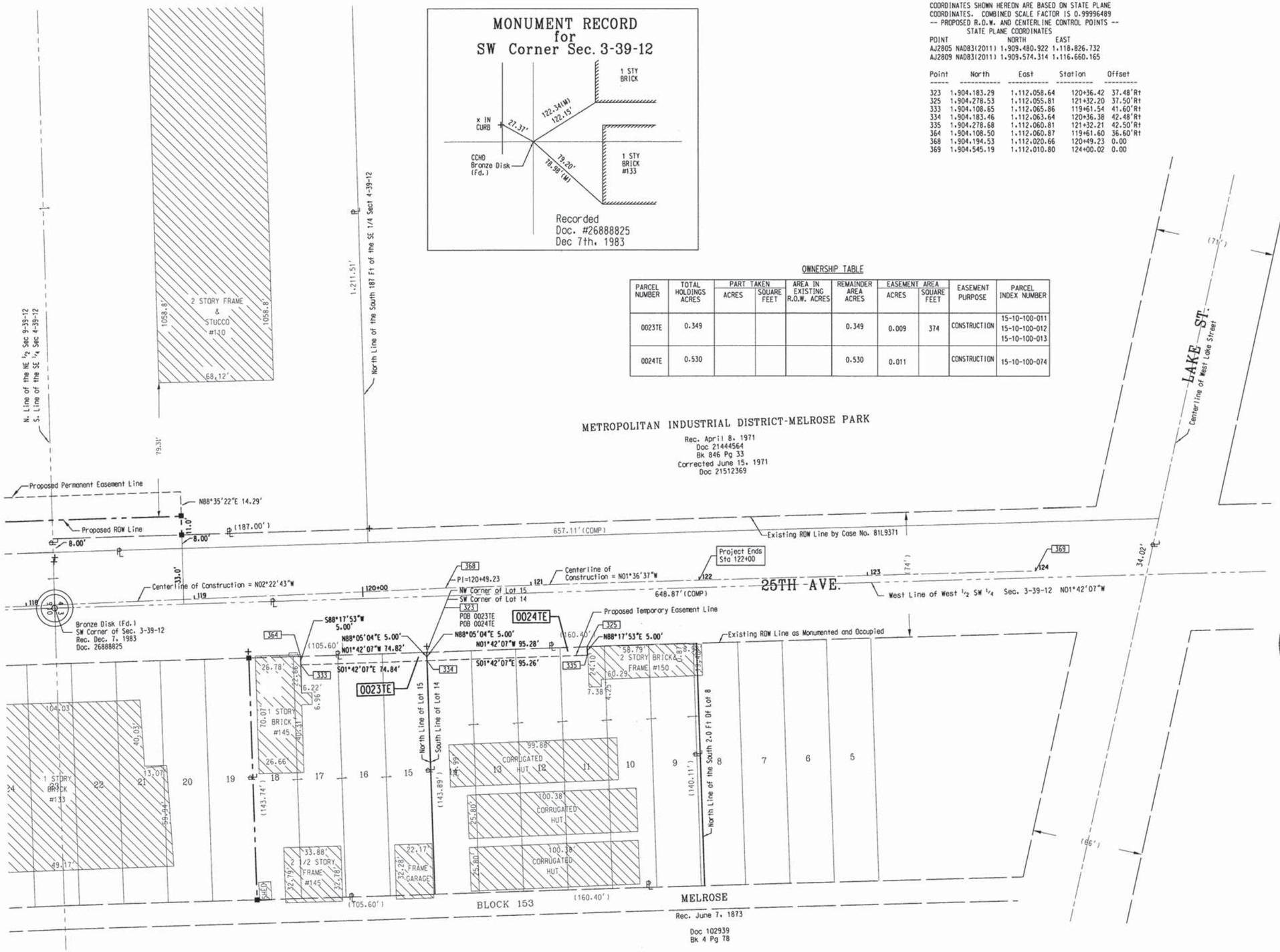
LIMITS: IL64 TO US20	COUNTY: COOK
SECTION: 99-00094-00-GS	JOB NO.: R-90-028-13
STATION 111+80	TO STATION 119+31
SCALE: 1" = 30'	SHEET 6 OF 7

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: REVISION MADE BY

P:\projects\12024\000\C\CADD.Drawings\V12024-LandAcq P6.dgn
7/29/2014

Part of SE 1/4 Section 3, Township 39 North, Range 12 East of the Third Principal Meridian, Cook Co.



MONUMENT RECORD for SW Corner Sec. 3-39-12

Recorded
Doc. #26888825
Dec 7th, 1983

- NAD 83(2011) ILLINOIS EAST STATE PLANE ZONE -

COORDINATES SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES. COMBINED SCALE FACTOR IS 0.99996489
-- PROPOSED R.O.W. AND CENTERLINE CONTROL POINTS --
STATE PLANE COORDINATES

POINT	NORTH	EAST
AJ2805 NAD83(2011)	1,909,480.922	1,118,826.732
AJ2809 NAD83(2011)	1,909,574.314	1,116,660.165

Point	North	East	Station	Offset
323	1,904,183.29	1,112,058.64	120+36.42	37.48'Rt
325	1,904,278.53	1,112,055.81	121+32.20	37.50'Rt
333	1,904,108.65	1,112,065.86	119+61.54	41.60'Rt
334	1,904,183.46	1,112,063.64	120+36.38	42.48'Rt
335	1,904,278.68	1,112,060.81	121+32.21	42.50'Rt
364	1,904,108.50	1,112,060.87	119+61.60	36.60'Rt
368	1,904,194.53	1,112,020.66	120+49.23	0.00
369	1,904,545.19	1,112,010.80	124+00.02	0.00

OWNERSHIP TABLE

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
0023TE	0.349				0.349	0.009	374	CONSTRUCTION	15-10-100-011 15-10-100-012 15-10-100-013
0024TE	0.530				0.530	0.011		CONSTRUCTION	15-10-100-074

METROPOLITAN INDUSTRIAL DISTRICT-MELROSE PARK
Rec. April 8, 1971
Doc 21444564
Bk 846 Pg 33
Corrected June 15, 1971
Doc 21512369

LEGEND

SECTION CORNER (9/10/16/15) — QUARTER SECTION CORNER (16/15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 129.32' — MEASURED DIMENSION
- 129.32'(COMP.) — COMPUTED DIMENSION
- ( ) — RECORD DATA
- EXISTING BUILDING

30 15 0 30
SCALE 1" = 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET

- ● T1, T2, T3 — THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 — THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ■ M — STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ — PERMANENT SURVEY MARKER. I.D.O.T. STD 2135 (TO BE SET BY OTHERS).
- □ — RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, BEN B. POCHYLA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTIONS 3,4 TOWNSHIP 39 NORTH, RANGE 12 EAST, AND SECTIONS 9,10 TOWNSHIP 39 NORTH, RANGE 12 EAST, OF THE THIRD PRINCIPAL MERIDIAN. COOK COUNTY: THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF: THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY. THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN HEREON AND THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO ILLINOIS THIS 10th DAY OF March 20 13 A.D.

STATE OF ILLINOIS ★ BEN B. POCHYLA 3139 ★ PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3139
LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GLOBETROTTERS
300 S. WACKER DR., CHICAGO, IL 60606
(312) 922-6400 (312) 922-6558 FAX

CONTRACT 63887

TOTAL SHEETS 240 SHEET NO. 105

PLAT OF HIGHWAYS

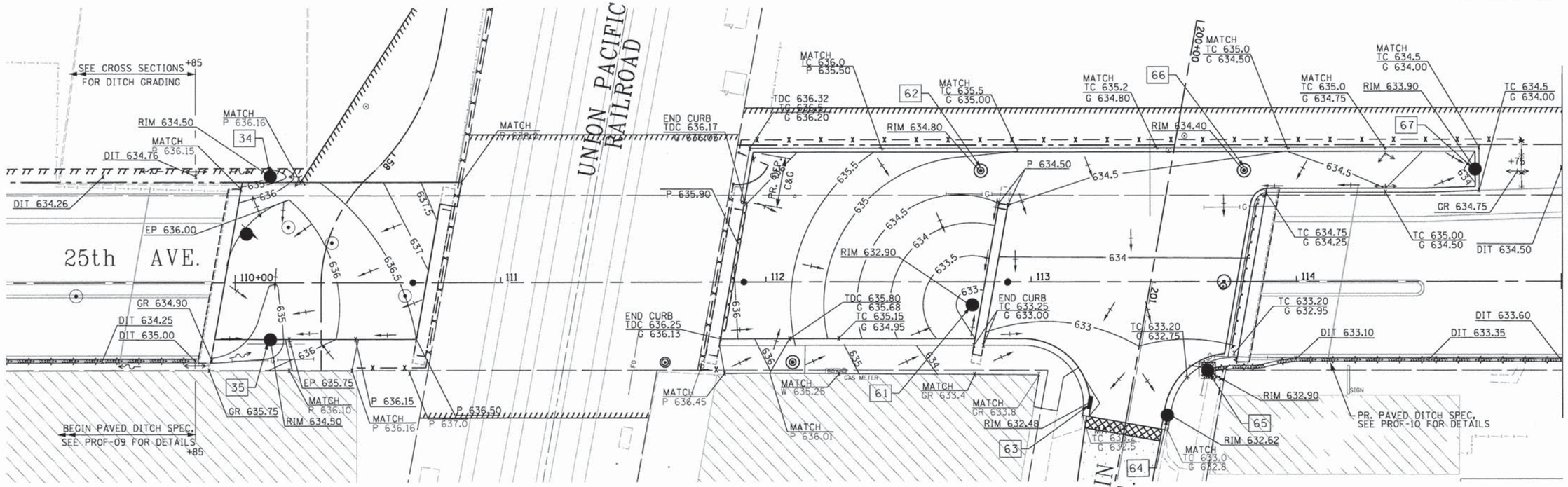
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
25th AVENUE

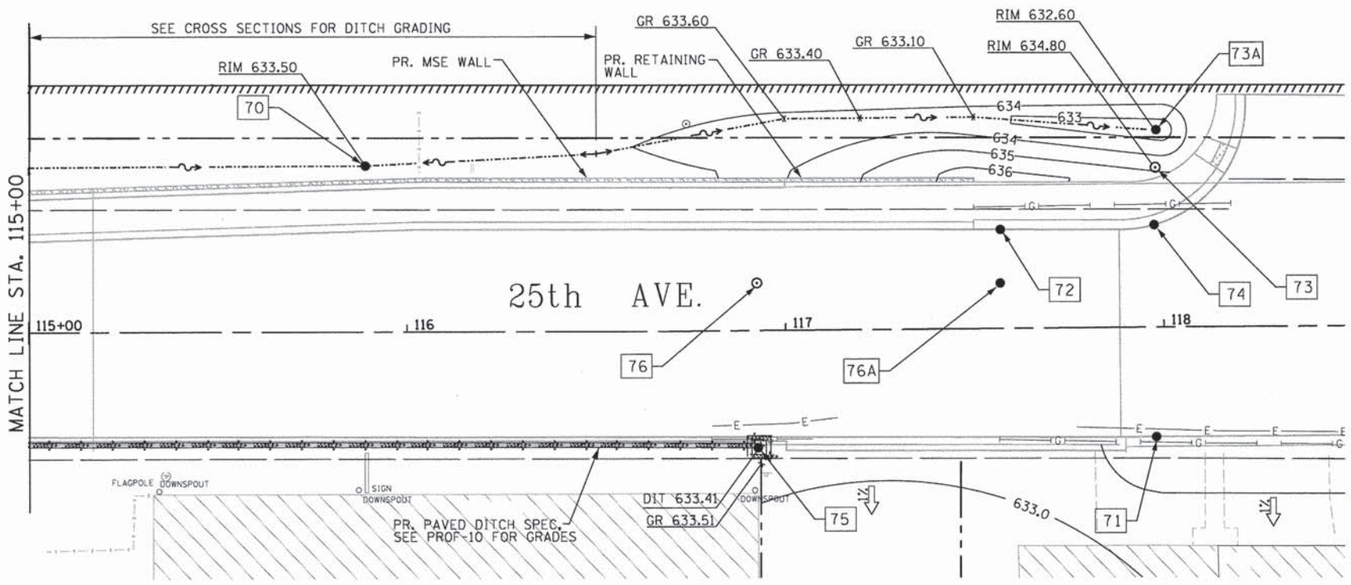
LIMITS: IL64 TO US20 COUNTY: COOK
SECTION: 99-00094-00-GS JOB NO.: R-90-028-13
STATION 119+31 TO STATION 122+00
SCALE: 1" = 30' SHEET 7 OF 7

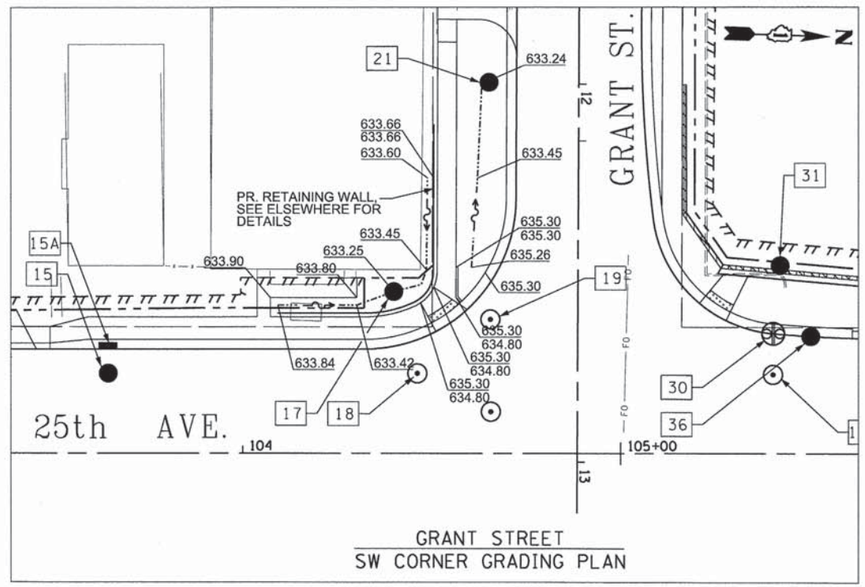
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: REVISION MADE BY

P:\projects\12024\000\C\CADD_Drawings\VI2024-LandAcq P7.dgn
3/21/2014







GRD-1

Globetrotters Engineering Corporation

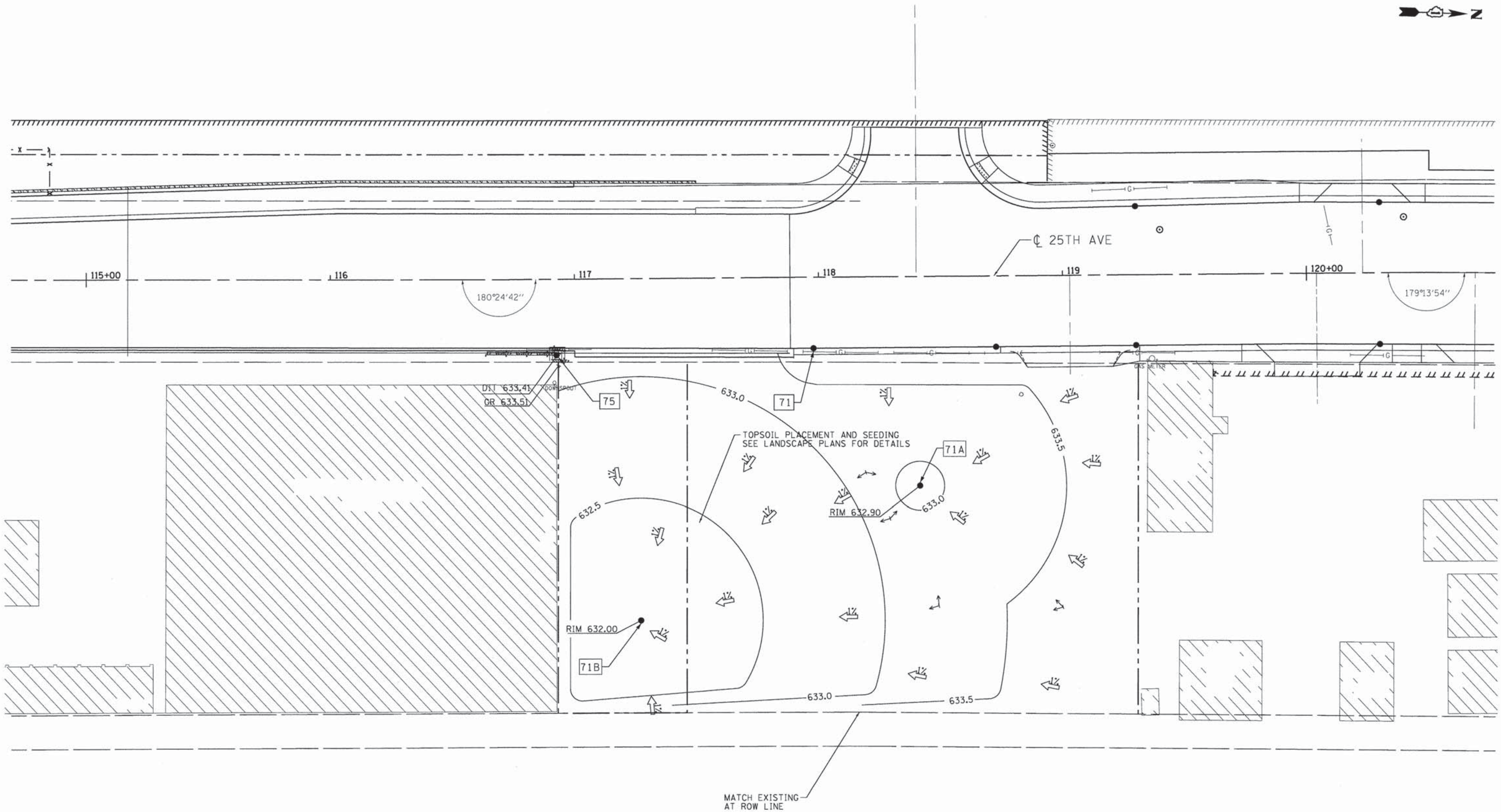
USER NAME = mohammad.ali	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - MA	REVISED -
PLOT DATE = 7/30/2014	DATE - 3-24-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 109+30.00 TO STA. 118+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	106
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

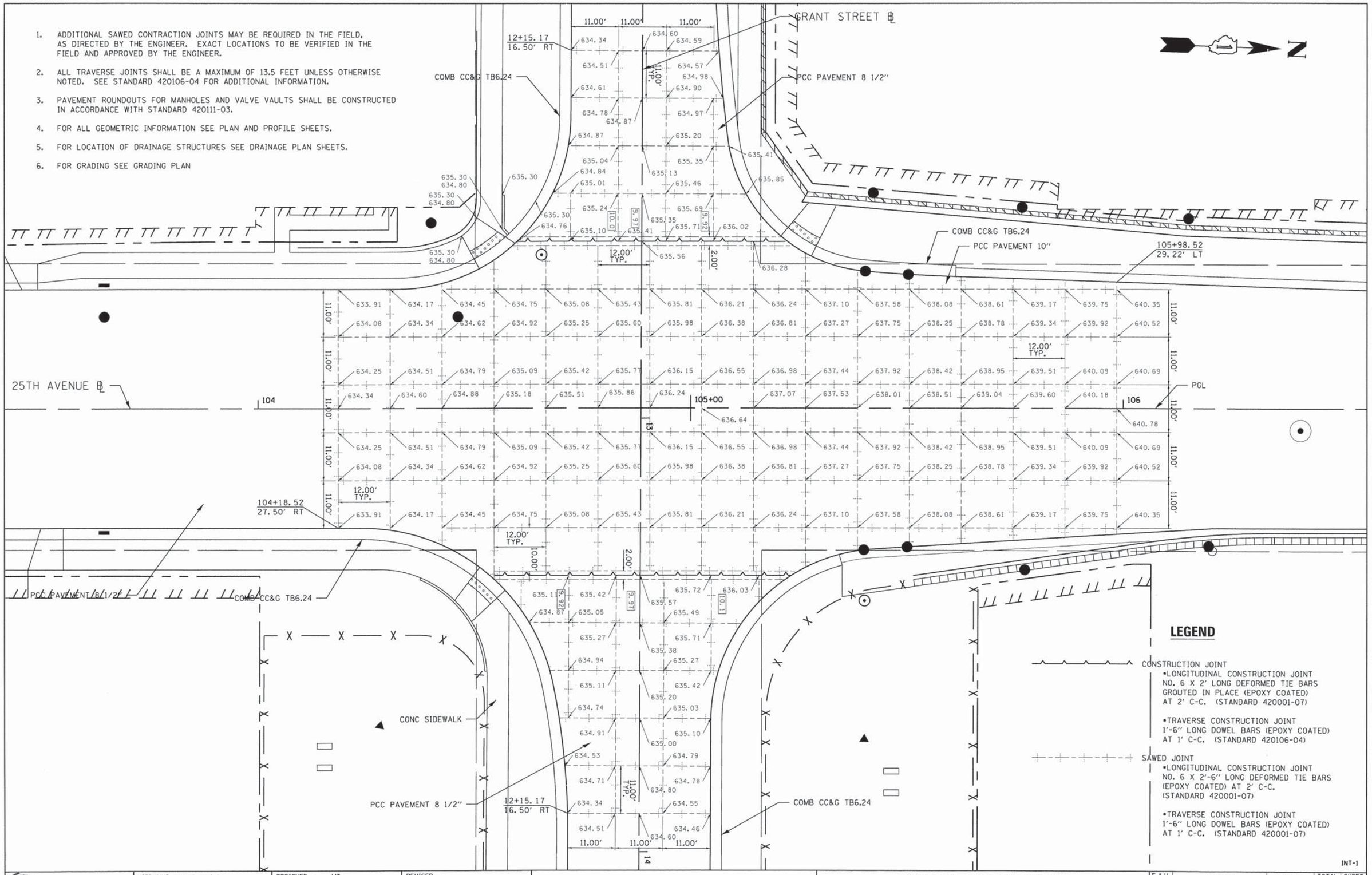


GRD-2

Globetrotters Engineering Corporation	USER NAME = mohammed.ali	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING PLAN 25TH AVENUE GRADE SEPARATION
		DRAWN - MA	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - MA	REVISED -		
	PLOT DATE = 7/30/2014	DATE - 3-24-2014	REVISED -		SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 115+00.00 TO STA. 120+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	107
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

1. ADDITIONAL SAWED CONTRACTION JOINTS MAY BE REQUIRED IN THE FIELD, AS DIRECTED BY THE ENGINEER. EXACT LOCATIONS TO BE VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.
2. ALL TRAVERSE JOINTS SHALL BE A MAXIMUM OF 13.5 FEET UNLESS OTHERWISE NOTED. SEE STANDARD 420106-04 FOR ADDITIONAL INFORMATION.
3. PAVEMENT ROUNDOUTS FOR MANHOLES AND VALVE VAULTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD 420111-03.
4. FOR ALL GEOMETRIC INFORMATION SEE PLAN AND PROFILE SHEETS.
5. FOR LOCATION OF DRAINAGE STRUCTURES SEE DRAINAGE PLAN SHEETS.
6. FOR GRADING SEE GRADING PLAN



LEGEND

CONSTRUCTION JOINT
- LONGITUDINAL CONSTRUCTION JOINT NO. 6 X 2' LONG DEFORMED TIE BARS GROUTED IN PLACE (EPOXY COATED) AT 2' C-C. (STANDARD 420001-07)
- TRAVERSE CONSTRUCTION JOINT 1'-6" LONG DOWEL BARS (EPOXY COATED) AT 1' C-C. (STANDARD 420106-04)

SAWED JOINT
- LONGITUDINAL CONSTRUCTION JOINT NO. 6 X 2'-6" LONG DEFORMED TIE BARS (EPOXY COATED) AT 2' C-C. (STANDARD 420001-07)
- TRAVERSE CONSTRUCTION JOINT 1'-6" LONG DOWEL BARS (EPOXY COATED) AT 1' C-C. (STANDARD 420001-07)

INT-1

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - MT	REVISED -
	DRAWN - MT	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - RH	REVISED -
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL / JOINTING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1"=10' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	108
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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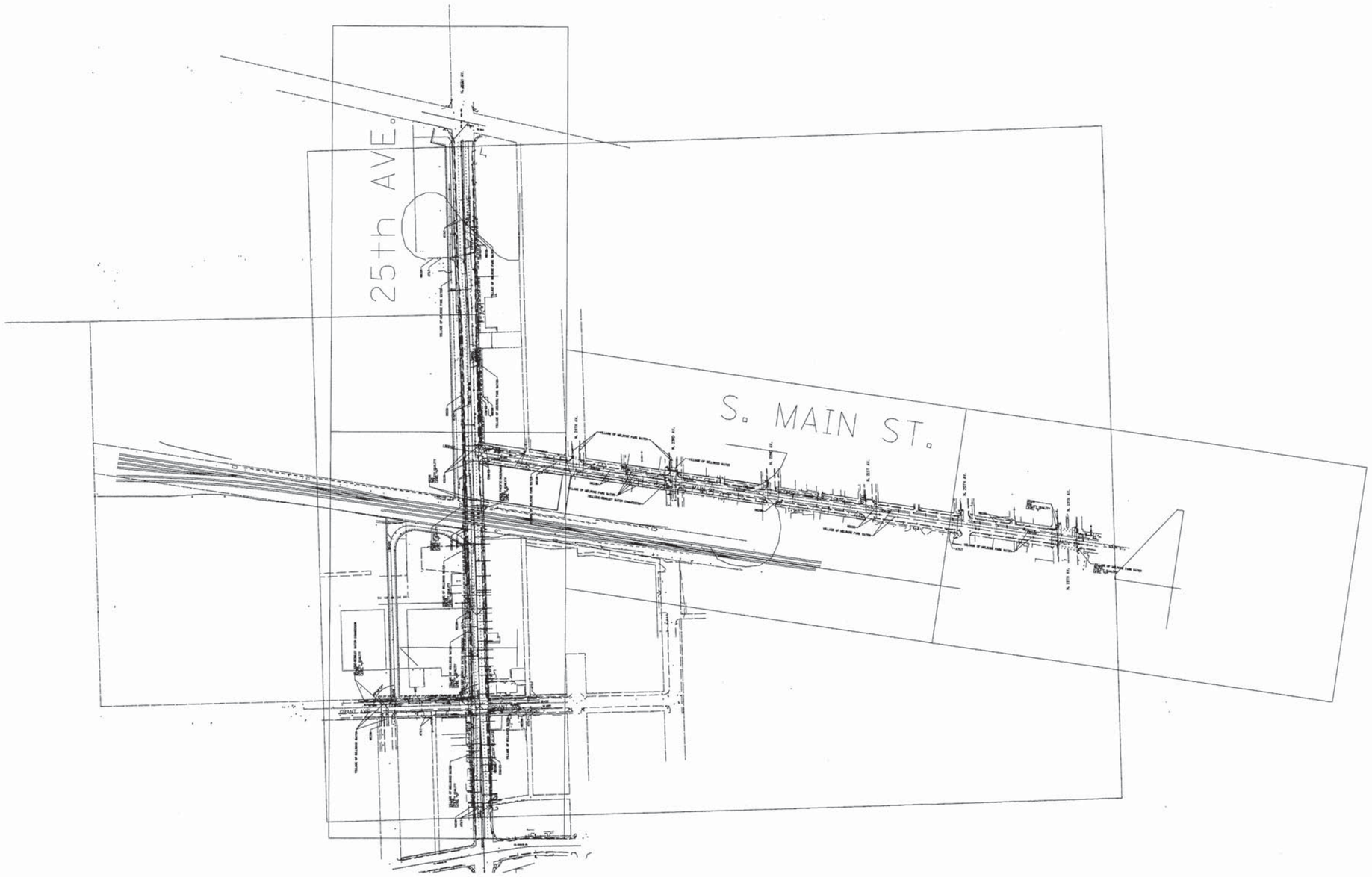


A A AERIAL UNKNOWN CTV CTV CTV CABLE TV T T TELEPHONE G GAS E E ELECTRIC TRAFFIC SIGNAL/LIGHTING W W WATER FO FO FO FIBER OPTIC TBE TEST HOLE	UTILITY OWNERS AT&T = FIBER OPTIC AT&T = TELEPHONE COMCAST = CATV COMED = ELECTRIC MCI = FIBER OPTIC NICOR = GAS SPRINT = FIBER OPTIC VILLAGE OF BELLWOOD WATER = WATER VILLAGE OF MELROSE PARK WATER = WATER UNION PACIFIC RR = WATER HILLSIDE-BERKLEY WATER COMMISSION = WATER	Underground utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 7/25/13 through 8/14/13. Changes to utilities after 8/14/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
11/14/13
date
license expires 11-30-15

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510546
SUE Plan Page: Cover

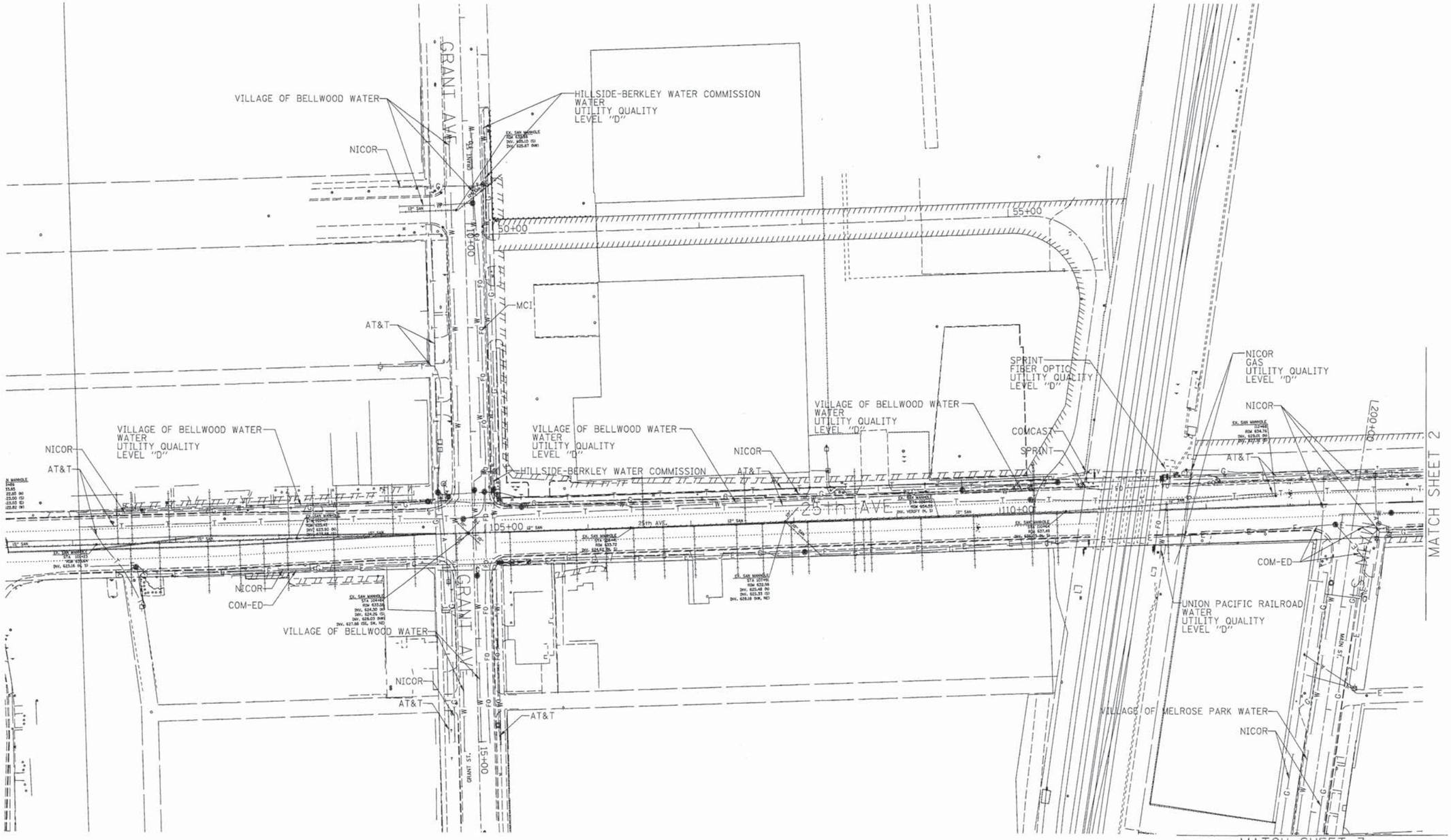
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED: 11/13/13 ADDED ALIGNMENT
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	8/15/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

25th Avenue at UPRR Grade Separation
Melrose Park, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	Cook	240	109
		Contract No. 63887		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



A — A	AERIAL
	UNKNOWN
CTV — CTV	CABLE TV
T — T	TELEPHONE
G — G	GAS
E — E — E	ELECTRIC
	TRAFFIC SIGNAL/LIGHTING
W — W	WATER
FO — FO	FIBER OPTIC
	TBE TEST HOLE

UTILITY OWNERS

AT&T = FIBER OPTIC
AT&T = TELEPHONE
COMCAST = CATV
COMED = ELECTRIC
MCI = FIBER OPTIC
NICOR = GAS
SPRINT = FIBER OPTIC
VILLAGE OF BELLWOOD WATER = WATER
VILLAGE OF MELROSE PARK WATER =WATER
UNION PACIFIC RR = WATER
HILLSIDE-BERKLEY WATER COMMISSION = WATER

Underground utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 7/25/13 through 8/14/13. Changes to utilities after 8/14/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
11/15/13
date
license expires 11-30-15

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510546
SUE Plan Page: 1 of 4

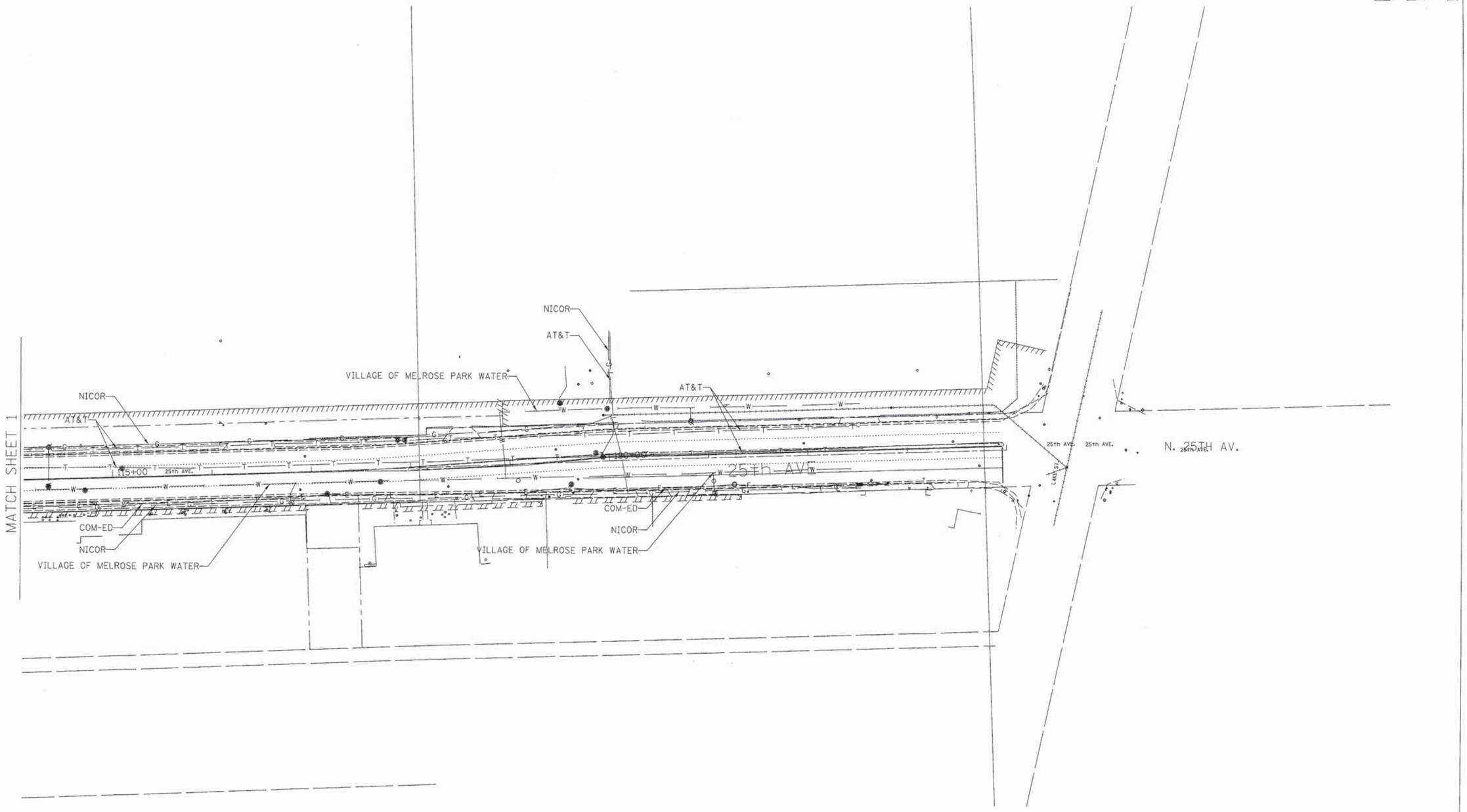
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED: 11/13/13 ADDED ALIGNMENT
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	8/14/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

25th Avenue at UPRR Grade Separation
Melrose Park, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	Cook	240	110
		Contract No. 63887		
FED. ROAD DIST. NO. _	ILLINOIS	IDOT Project No.		



A — A —	AERIAL
	UNKNOWN
CTV — CTV —	CABLE TV
T — T —	TELEPHONE
G — G —	GAS
E — E — E —	ELECTRIC
	TRAFFIC SIGNAL/LIGHTING
W — W —	WATER
FO — FO —	FIBER OPTIC
	TBE TEST HOLE

UTILITY OWNERS

AT&T = FIBER OPTIC
AT&T = TELEPHONE
COMCAST = CATV
COMED = ELECTRIC
MCI = FIBER OPTIC
NICOR = GAS
SPRINT = FIBER OPTIC
VILLAGE OF BELLWOOD WATER = WATER
VILLAGE OF MELROSE PARK WATER =WATER
UNION PACIFIC RR = WATER
HILLSIDE-BERKLEY WATER COMMISSION = WATER

Underground utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 7/25/13 through 8/14/13. Changes to utilities after 8/14/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

KENNETH F. SLANINKA, Jr. 062-055488 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS
signature
11/19/13
date
license expires 11-30-15

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510546
SUE Plan Page: 2 of 4

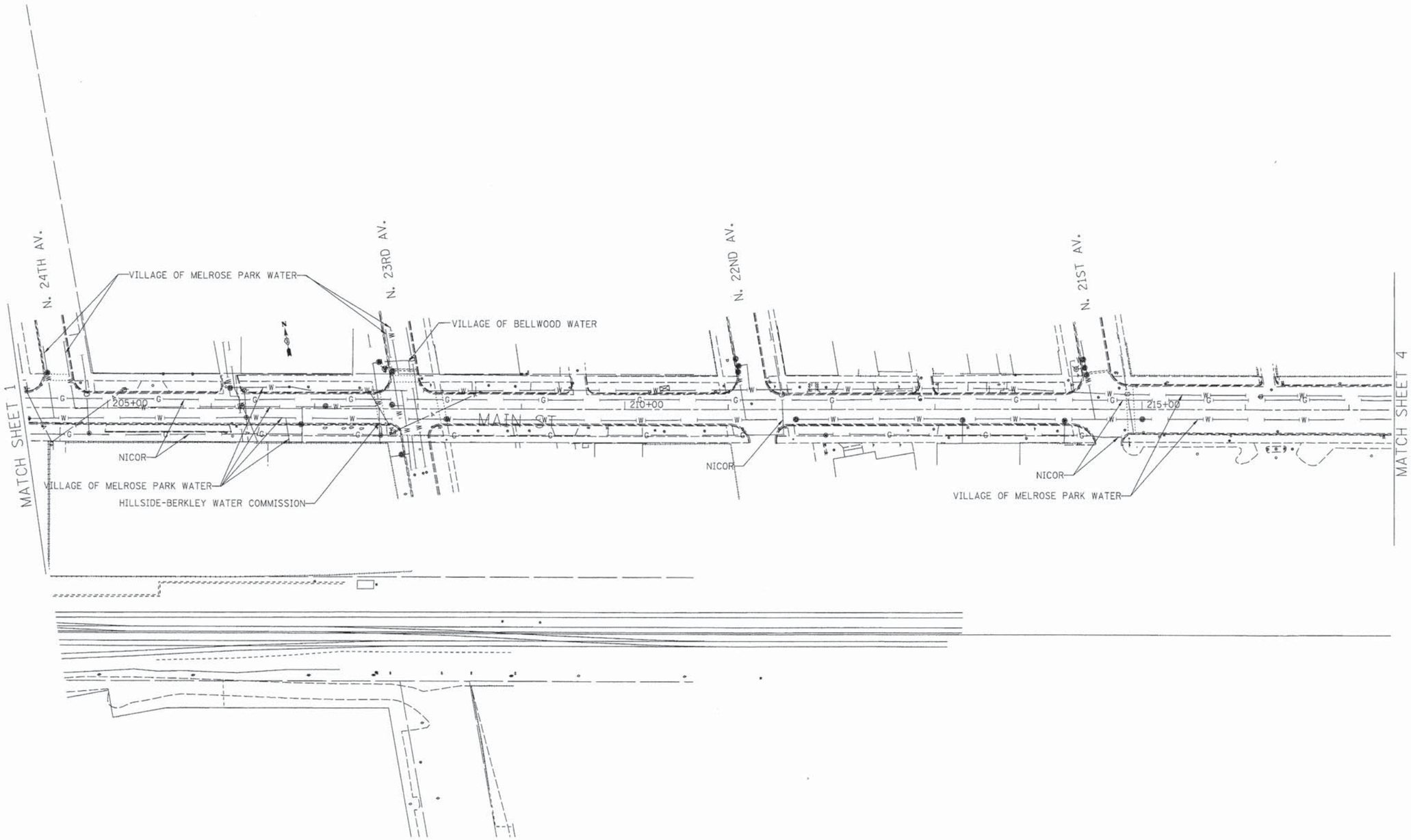
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED: 11/13/13 ADDED ALIGNMENT
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	8/14/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

25th Avenue at UPRR Grade Separation
Melrose Park, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	Cook	240	111
		Contract No. 63887		
FED. ROAD DIST. NO. _	ILLINOIS	IDOT Project No.		



A —— A —— AERIAL
UNKNOWN
CTV —— CTV —— CABLE TV
T —— T —— TELEPHONE
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E —— E —— E —— ELECTRIC
TRAFFIC SIGNAL/LIGHTING
W —— W —— WATER
FO —— FO —— FIBER OPTIC
TBE TEST HOLE

UTILITY OWNERS
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AT&T = TELEPHONE
COMCAST = CATV
COMED = ELECTRIC
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20 0 METERS 20 40
50 0 FEET 50 100

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
11/14/13
date
license expires 11-30-15

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510546
SUE Plan Page: 3 of 4

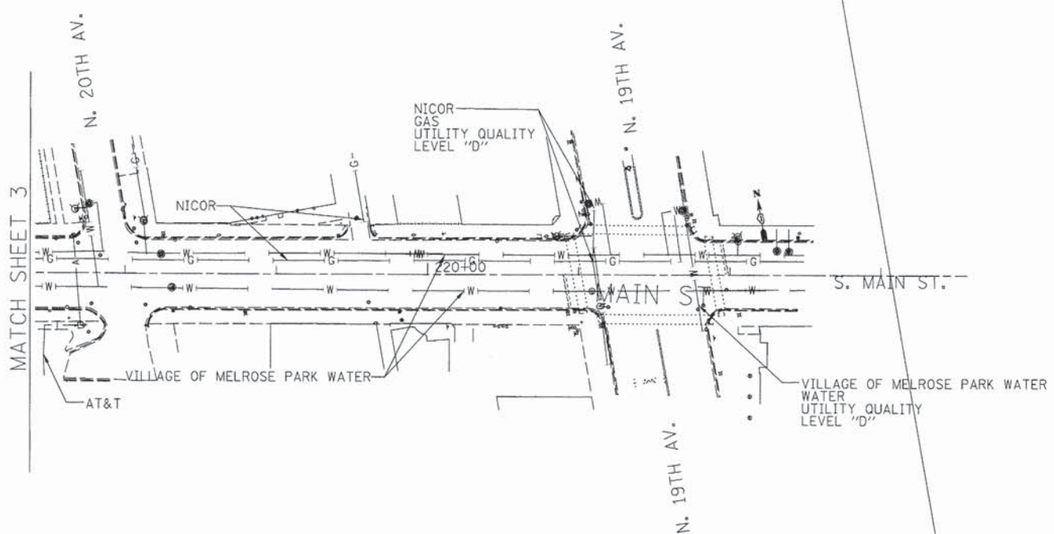
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED: 11/13/13 ADDED ALIGNMENT
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	8/14/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

25th Avenue at UPRR Grade Separation
Melrose Park, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	Cook	240	112
		Contract No. 63887		
FED. ROAD DIST. NO. _	ILLINOIS	IDOT Project No.		



A —— A —— AERIAL
UNKNOWN
CTV —— CTV —— CABLE TV
T —— T —— TELEPHONE
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TBE TEST HOLE

UTILITY OWNERS

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signature
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Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510546
SUE Plan Page: 4 of 4

Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED: 11/13/13 ADDED ALIGNMENT
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	8/14/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

25th Avenue at UPRR Grade Separation
Melrose Park, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	Cook	240	113
		Contract No. 63887		
FED. ROAD DIST. NO. _	ILLINOIS	IDOT Project No.		

REMOVE AND RE-ERECT EXISTING SIGN MUTCD S1-1 (SCHOOL SIGN) MUTCD W16-9P (AHEAD plaque) EXIST. STA. 102+25 PROP. STA. 102+83.25

AHEAD

REMOVE AND RE-ERECT EXISTING SIGNS MUTCD R2-1 (SPEED LIMIT) MUTCD R3-4 (NO U-TURN) STA. 104+15

SPEED LIMIT 30

PROPOSED MUTCD R1-1 (STOP) STA. 12+54 30"x30"

STOP

EXISTING SIGN TO REMAIN MUTCD R2-1 (SPEED LIMIT) STA. 10+49

SPEED LIMIT 20

PROPOSED MUTCD R1-1 (STOP) STA. 10+02 30"x30"

STOP

ONE WAY

ONE WAY

EXISTING SIGNS TO REMAIN MUTCD R6-2R (ONE WAY) MUTCD R6-2L (ONE WAY) STA. 9+65

STOP

PROPOSED MUTCD R1-1 (STOP) STA. 9+95 30"x30"

IMPROVEMENT BEGINS STATION 9+56.42 GRANT ST.

26th AV.

COZZI O'BRIEN DRIVEWAY

STA 55+20.30 12.00' LT

STA 55+03.60 12.00' RT

PERMANENT EASEMENT (TYP) NOTE 1

REMOVE AND RE-ERECT EXISTING NO THRU TRUCK TRAFFIC SIGNS AFTER DETOUR IS NO LONGER NEEDED

℄ GRANT ST.

ALLEY

SPEED LIMIT 20

PROPOSED MUTCD R2-1 (SPEED LIMIT) STA. 11+70.14 24"x30"

COZZI O'BRIEN TEMPORARY EASEMENT (TYP) PROPOSED ROW (TYP) EXISTING ROW (TYP)

STA 56+47.06 12.00' RT

STA 56+30.35 12.00' LT

STA 57+55.39 12.00' RT

STA 57+55.39 12.00' LT

STA 58+12.12 12.00' RT

STA 58+12.12 12.00' LT

RAILROAD

RESTORE EXISTING PAVEMENT MARKINGS

ST. CHARLES RD.

ST. CHARLES KOPYKAT

ALARMS PLUS

25th AV.

IMPROVEMENT BEGINS STATION 101+41 25TH AVE.

℄ 25TH AVE.

STA 58+58.95 12.00' RT

STA 58+58.95 12.00' LT

MATCHLINE STA. 112+50

EXISTING SIGN TO REMAIN MUTCD R2-1 (SPEED LIMIT) STA. 100+49

SPEED LIMIT 30

MATCH EXISTING STRIPING

FIRST BAPTIST CHURCH

COMBINED METALS

EXISTING SIGNS TO REMAIN MUTCD R3-4 (NO U-TURN) AND (NO PARKING ANYTIME) STA. 100+65

NO PARKING ANYTIME

EXISTING SIGN TO REMAIN (NO PARKING ANYTIME) STA. 101+68

NO PARKING ANYTIME

STA 104+88.50 (25TH AVE.)= STA 12+97.67 (GRANT ST.)

REMOVE AND RE-ERECT EXISTING SNOW REMOVAL SIGN STA. 14+18.00

IMPROVEMENT ENDS STATION 14+81.34 GRANT ST.

PROPOSED MUTCD W7-1a (HILL WITH GRADE) STA. 107+10.98 36"x36"

7%

STOP

PROPOSED MUTCD R1-1 (STOP) STA. 13+43 30"x30"

EXISTING SIGN TO REMAIN MUTCD R2-1 (SPEED LIMIT) STA. 14+72

SPEED LIMIT 20

24th AV.

GRANT ST.

BELLWOOD MELROSE PARK UNION PACIFIC

COZZI O'BRIEN

YELLOW CURB MARKINGS	
GRANT ST.	
QUADRANT	STATION
(C1) SOUTHEAST	13+44 TO 13+96
(C2) SOUTHWEST	12+31 TO 12+58
(C3) NORTHWEST	12+19 TO 12+55

NOTES

1. SEE ROADWAY PLANS FOR PAVING LIMITS.

LEGEND:

(1) EPOXY PAVEMENT MARKING- LETTERS AND SYMBOLS
(2) EPOXY PAVEMENT MARKING- LINE 4" WHITE 10' DASH, 30' SPACE
(3) EPOXY PAVEMENT MARKING- LINE 4" WHITE EDGE LINE
(4) EPOXY PAVEMENT MARKING- LINE 4" YELLOW EDGE LINE
(5) EPOXY PAVEMENT MARKING- LINE 4" YELLOW DOUBLE CENTER LINE
(6) EPOXY PAVEMENT MARKING- LINE 6" WHITE
(7) EPOXY PAVEMENT MARKING- LINE 6" WHITE 2' DASH, 6' SPACE
(8) EPOXY PAVEMENT MARKING- LINE 4" YELLOW 10' DASH, 30' SPACE
(9) EPOXY PAVEMENT MARKING- LINE 12" YELLOW ø45 DEGREE, MIN OF 5 (SPACING AS SPECIFIED ON PLAN)
(10) EPOXY PAVEMENT MARKING- LINE 12" WHITE ø45 DEGREE, MIN OF 5 (SPACING AS SPECIFIED ON PLAN)
(11) EPOXY PAVEMENT MARKING- LINE 24" WHITE

SYMBOLS

◀ ONE-WAY AMBER MARKER
◁ ONE-WAY CRYSTAL MARKER (W/O)
◆ TWO-WAY AMBER MARKER

PMS-1

Globetrotters Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - MA	REVISED -	
	DRAWN - MA	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - RH	REVISED -	
PLOT DATE = 7/30/2014	DATE - 3-24-2014	REVISED -	

FILE NAME = P:\projects\12024\000\C\CADD.Sheets\D116899-sht-pmkl.dgn
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. 101+41.00 TO STA. 112+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	114
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

NOTES

1. SEE ROADWAY PLANS FOR PAVING LIMITS.

PROPOSED MUTCD W2-1 (CROSS ROAD) W16-9P (AHEAD plaque) STA 115+08.12 30"x30" 24"x12"

PROPOSED MUTCD W7-1a (HILL WITH GRADE) STA. 116+83.63 36"x36"

REMOVE AND RE-ERECT EXISTING SIGN MUTCD R8-3 (NO PARKING symbol) STA. 117+56

PROPOSED MUTCD R1-1 (STOP) STA. 118+13 30"x30"

EXISTING SIGN TO REMAIN MUTCD R3-4 (NO U-TURN) STA. 121+92

EXISTING SIGN TO REMAIN MUTCD R2-1 (SPEED LIMIT) STA. 123+83

BELLWOOD

MELROSE PARK

LAKE ST.

N. 25TH AV.

25th AV.

PERMANENT EASEMENT (TYP)
PROPOSED ROW (TYP)
EXISTING ROW (TYP)

IMPROVEMENT ENDS STATION 122+00 25TH AVE.

MATCHLINE STA. 112+50

MAIN ST.

ALLEY

ALLEY

NO OUTLET

PROPOSED MUTCD W14-2 (NO OUTLET) STA. 204+10.00

N. 24TH AV.

SPEED LIMIT 30

MELROSE PARK VILLAGE LIMITS

REMOVE AND RE-ERECT EXISTING SIGNS MUTCD R2-1 (SPEED LIMIT) (MELROSE PARK VILLAGE LIMITS) EXIST. STA. 118+45 PROP. STA. 117+60.43

EXISTING ROW (TYP)

TEMPORARY EASEMENT (TYP)

MATCH EXISTING STRIPING

NO PARKING ANY TIME

EXISTING SIGN TO REMAIN (NO PARKING ANY TIME) STA. 120+85

NO PARKING ANY TIME

EXISTING SIGN TO REMAIN (NO PARKING ANY TIME) STA. 123+01

LEGEND:

1. EPOXY PAVEMENT MARKING- LETTERS AND SYMBOLS
2. EPOXY PAVEMENT MARKING- LINE 4" WHITE 10' DASH, 30' SPACE
3. EPOXY PAVEMENT MARKING- LINE 4" WHITE EDGE LINE
4. EPOXY PAVEMENT MARKING- LINE 4" YELLOW EDGE LINE
5. EPOXY PAVEMENT MARKING- LINE 4" YELLOW DOUBLE CENTER LINE
6. EPOXY PAVEMENT MARKING- LINE 6" WHITE
7. EPOXY PAVEMENT MARKING- LINE 6" WHITE 2' DASH, 6' SPACE
8. EPOXY PAVEMENT MARKING- LINE 4" YELLOW 10' DASH, 30' SPACE
9. EPOXY PAVEMENT MARKING- LINE 12" YELLOW ø45 DEGREE, MIN OF 5 (SPACING AS SPECIFIED ON PLAN)
10. EPOXY PAVEMENT MARKING- LINE 12" WHITE ø45 DEGREE, MIN OF 5 (SPACING AS SPECIFIED ON PLAN)
11. EPOXY PAVEMENT MARKING- LINE 24" WHITE

SYMBOLS

- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

PMS-2

Globetrotters Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - RH	REVISED -
PLOT DATE = 7/30/2014	DATE - 3-24-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. 112+50.00 TO STA.122+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	115
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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NOTES

1. SODDING SHALL BE USED FOR LONG TERM STABILIZATION. PRIOR TO PLACING SODDING, REMOVE ANY TEMPORARY EROSION CONTROL MEASURES IN PLACE. SEE EROSION AND SEDIMENT CONTROL PLANS FOR TREE PROTECTION, SHORT TERM STABILIZATION AND ADDITIONAL REQUIREMENTS. SEE REMOVAL PLANS FOR TREES AND OTHER LANDSCAPE ITEMS TO BE REMOVED.

2. SEE LANDSCAPE PLAN SHEET LDS-3 FOR TREES, SEEDING LOCATIONS AND SEEDING TYPE WITHIN PROPOSED DETENTION POND.

N

IMPROVEMENT BEGINS
STATION 9+56.42
GRANT ST.

26th AV.

COZZI O'BRIEN DRIVEWAY

50+00

55+00

PERMANENT EASEMENT (TYP)

ST. CHARLES RD.

ALLEY

ST. CHARLES KOPYKAT

ALARMS PLUS

BELLWOOD ELECTRIC MOTORS

COZZI O'BRIEN
TEMPORARY EASEMENT (TYP)
PROPOSED ROW (TYP)
EXISTING ROW (TYP)

NOTE 1 (TYP)

STR. NO. 016-6351

RAILROAD

25th AV.

IMPROVEMENT BEGINS
STATION 101+41
25TH AVE.

30'

100+00

105+00

110+00

MATCHLINE STA. 112+50

NOTE 2

FIRST BAPTIST CHURCH

ALLEY

COMBINED METALS

ALLEY

BELLWOOD
MELROSE PARK
UNION
PACIFIC

COZZI O'BRIEN

IMPROVEMENT ENDS
STATION 14+81.34
GRANT ST.

115+00

LEGEND

- SODDING, SALT TOLERANT
- SEEDING CLASS 2A
- SEEDING CLASS 1B
- SEEDING CLASS 3
- SEEDING CLASS 4B

24th AV.

GRANT ST.

LDS-1

Globetrotters Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - RH	REVISED -
PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 50' | SHEET 1 OF 4 SHEETS | STA. 101+41.00 TO STA. 112+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	116
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

NOTES

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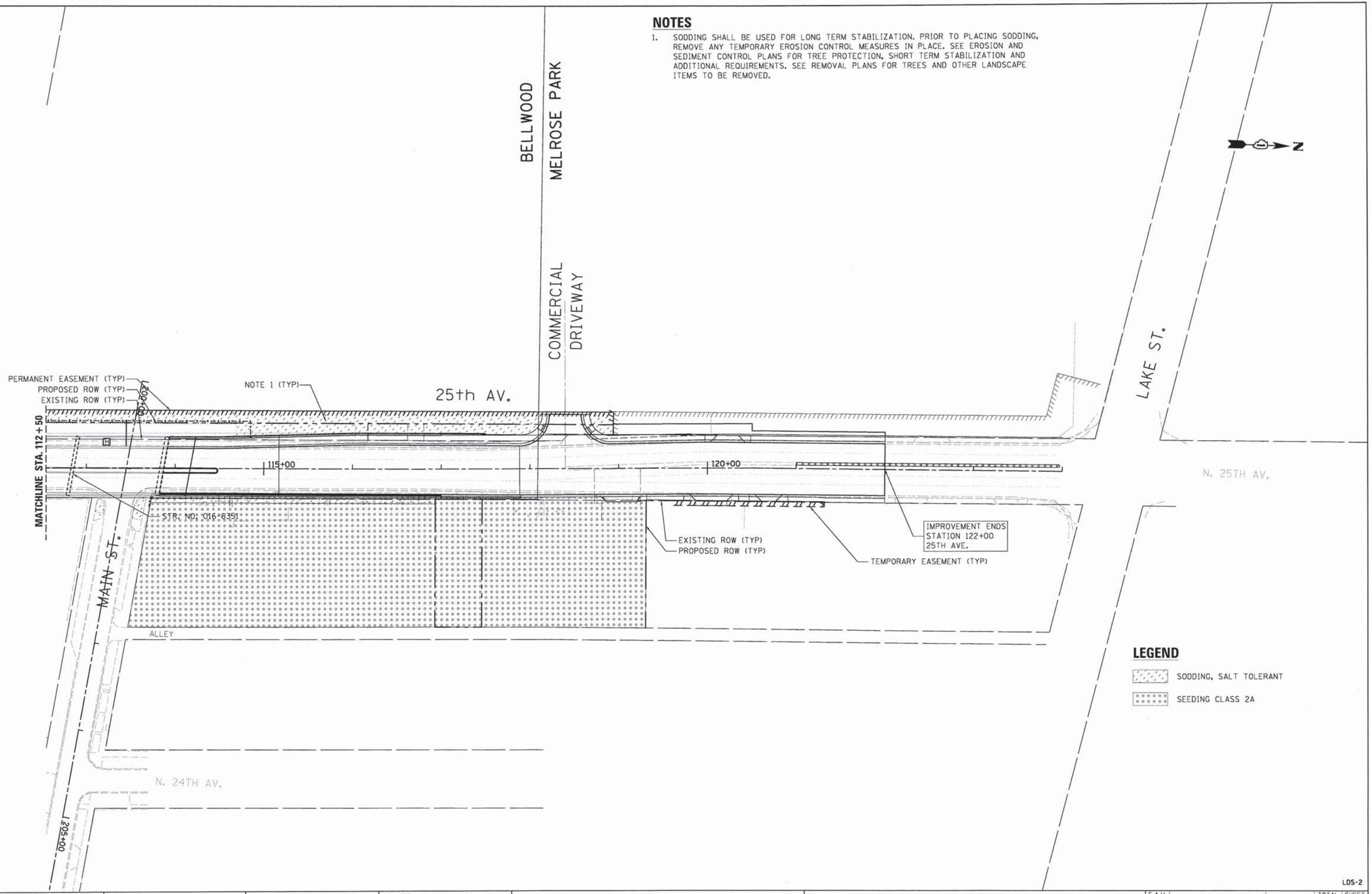

LEGEND

SODDING, SALT TOLERANT

SEEDING CLASS 2A

LDS-2

USER NAME = mohammed.ali	DESIGNED - MA	REVISED -	
	DRAWN - MA	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - RH	REVISED -	
PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED -	

Globetrotters Engineering Corporation

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 50' | SHEET 2 OF 4 SHEETS | STA. 112+50.00 TO STA.122+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	117
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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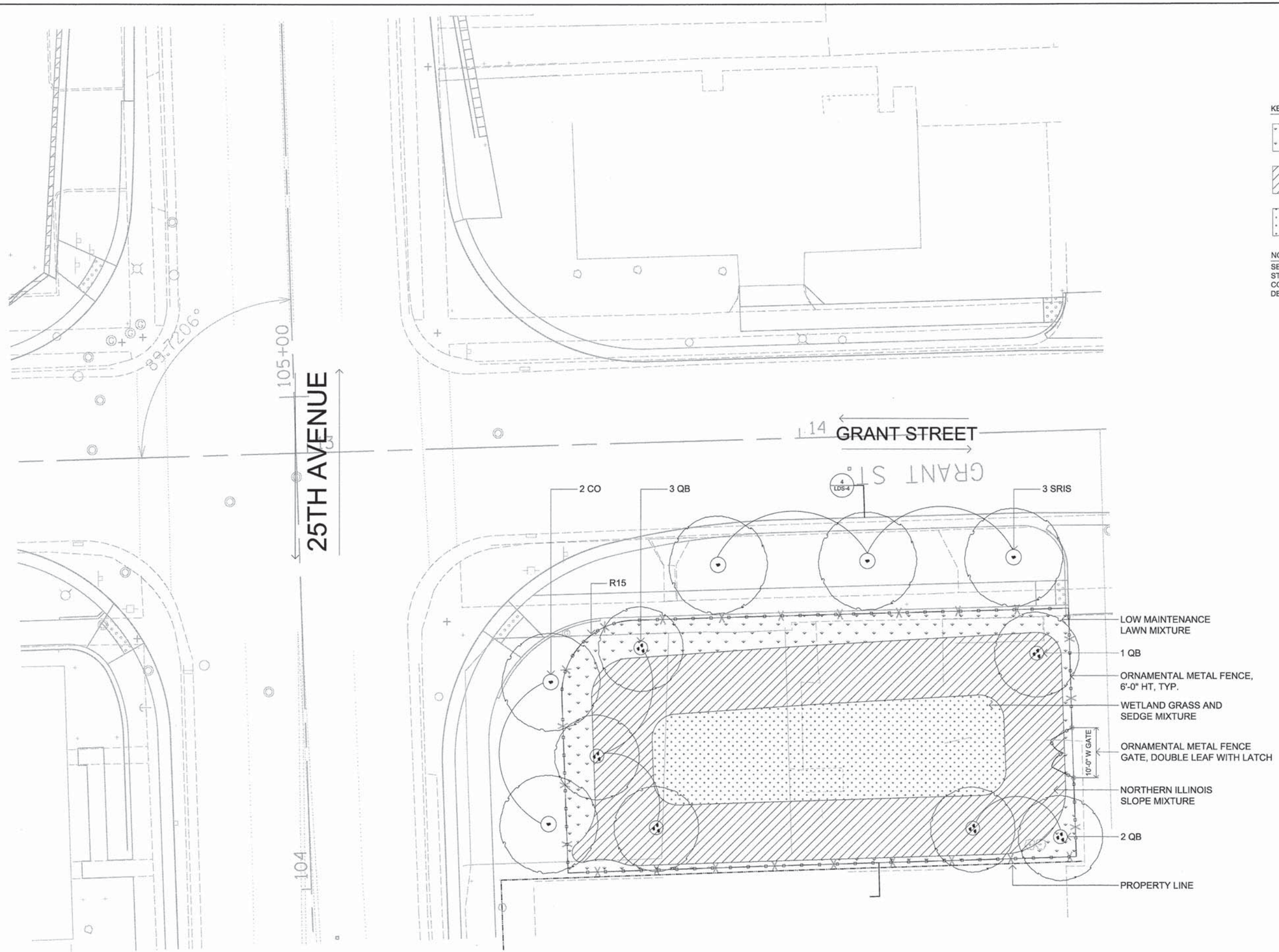

KEY:

1B LOW MAINTENANCE LAWN MIXTURE

3 NORTHERN ILLINOIS SLOPE MIXTURE

4B WETLAND GRASS AND SEDGE MIXTURE

NOTE #1:

SEEDING MIXTURES RELATE TO ART. 250.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION

LDS-3

WOLFF LANDSCAPE ARCHITECTURE

USER NAME = mohammed.ali	DESIGNED - MA	REVISED -	
	DRAWN - MA	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - RH	REVISED -	
PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	118
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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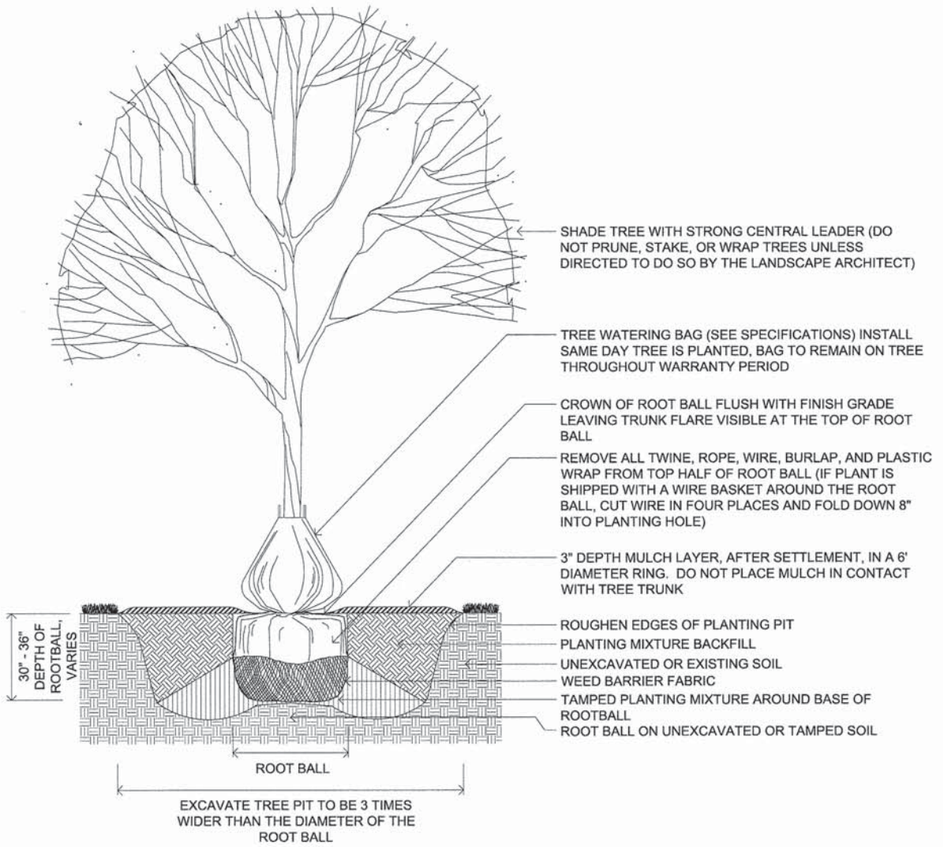
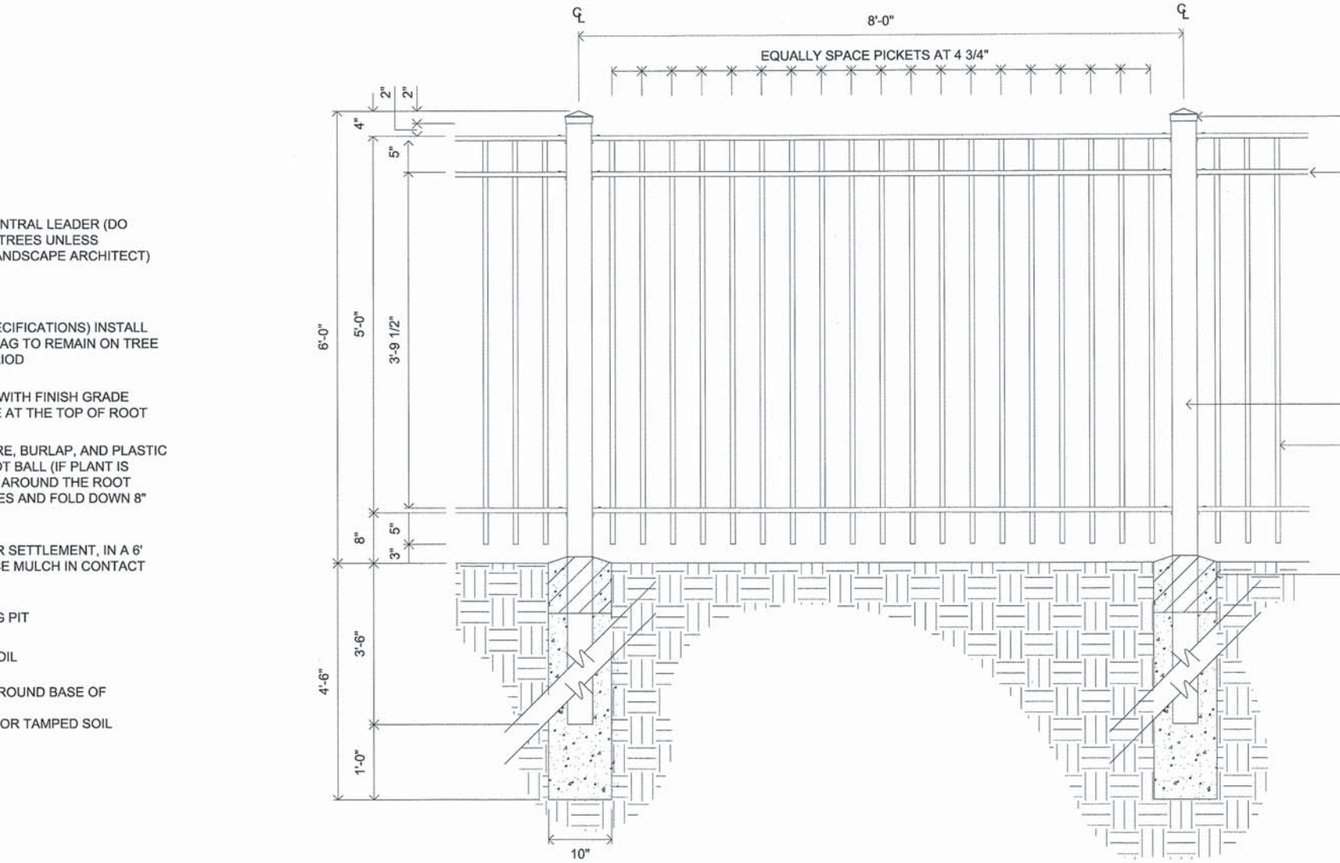


1 DECIDUOUS TREE INSTALLATION DETAIL

SCALE: 1/2" = 1'-0"

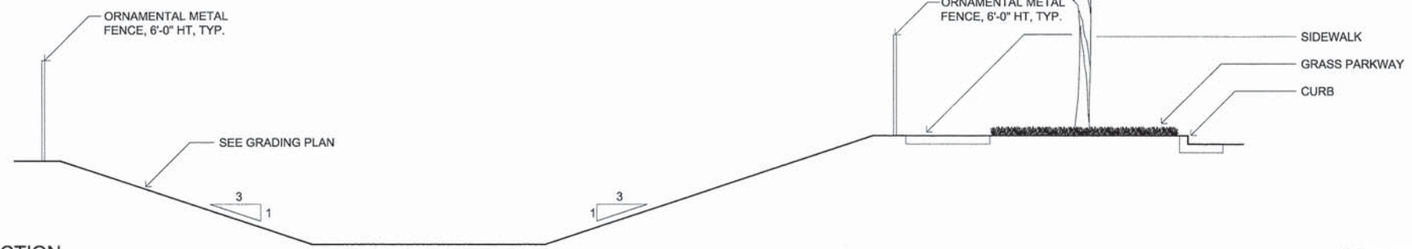


3 ORNAMENTAL METAL FENCE DETAIL

SCALE: 1" = 1'-0"

	CODE	BOTANICAL NAME	COMMON NAME	QTY.	CAL.	HT.	SPREAD	ROOT	REMARKS
SHADE TREES	CO	CELTIS OCCIDENTALIS CHICAGOLAND	CHICAGOLAND HACKBERRY	2	4"	-	-	B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY
	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	6	-	10'	-	B&B	MULTI-STEM TRUNK, 4-5 STEMS MIN., SPRING DIG ONLY
	SRIS	SYRINGA RETICULATA IVORY SILK	IVORY SILK JAPANESE TREE LILAC	3	4"	-	-	B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY

2 PLANT LIST



4 SECTION

SCALE: 1/4" = 1'-0"

LDS-4

WOLFF LANDSCAPE ARCHITECTURE

USER NAME = mohammed.ali	DESIGNED - MA	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 50' | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	119
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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ABBREVIATIONS

AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BC	BOLT CIRCLE
C	CONDUIT
CDA	CHICAGO DEPARTMENT OF AVIATION
DIA	DIAMETER
GRD	GROUND
GS	GALVANIZED STEEL
HDP	HIGH DENSITY POLYETHYLENE
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
MA	MAST ARM
MH	MOUNTING HEIGHT
MOT	MAINTENANCE OF TRAFFIC
N	NEUTRAL
NIC	NOT IN CONTRACT
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
USE	UNDERGROUND SERVICE ENTRANCE
W	WATTS
XLP	CROSS-LINKED POLYETHYLENE

LIGHTING GENERAL NOTES

1. PRIOR TO INSTALLATION OF THE NEW UNIT DUCT, CONDUITS, JUNCTION BOXES, LIGHT STANDARD FOUNDATION AND APPURTENANCES, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
2. THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH WOULD EFFECT HIS WORK UNDER THIS CONTRACT FOR THE OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
3. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
4. ALL NEW UNIT DUCT, CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
5. CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDER DRAINS.
6. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH NATIONAL ELECTRICAL CODE.
7. GROUNDING OF POLE AND CONTROLLER INCLUDING GROUND ROD, CONDUCTOR AND LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR WHICH IT IS INSTALLED.
8. ALL UNDERGROUND WIRING SHALL BE 30 INCHES MINIMUM BELOW GRADE PER IDOT STANDARD SPECIFICATION SECTION 810.
9. THE NEW ELECTRICAL INSTALLATION AND MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS:
   - ILLINOIS DEPARTMENT OF TRANSPORTATION. (IDOT)
   - NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. (NEMA)
   - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. (IEEE)
   - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. (IES)
   - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS. (AATO)
   - U.S. DEPARTMENT OF TRANSPORTATION. (U.S.D.O.T)
   - UNDERWRITERS LABORATORIES. (UL)
   - AMERICAN STANDARD INSTITUTE. (ASI)
   - INSULATED POWER AND CABLE ENGINEERS ASSOCIATION. (IPCEA)
   - NATIONAL ELECTRICAL SAFETY CODE (NESC)
   - NATIONAL ELECTRICAL CODE 2011
   - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
   - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
10. ALL SPLICING MUST BE IN POLE BASES OR JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
11. UNLESS NOTED OTHERWISE, ALL SHOULDER MOUNTED POLES SHALL HAVE MINIMUM SETBACK REQUIREMENT AS FOLLOWS:
    1- FACE OF THE CURB TO CENTERLINE OF THE POLE AS 3 FT.
12. ERECT POLES AFTER RESPECTIVE FOUNDATION HAS CURED.
13. TO MAINTAIN STRUCTURAL INTEGRITY, POLES WITH MAST ARMS SHALL NOT BE ERECTED WITHOUT LUMINAIRES.
14. PROVIDE RACKING AND TRAINING OF ALL CABLES IN MANHOLES AND HANDHOLES WITH APPROVED TYPE FASTENERS.
15. PLACE COUPLING ON THE ENDS OF CONDUIT TERMINATIONS AND PLUG WITH REMOVABLE PLUG.
16. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX THEY PASS THROUGH AS WELL AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. BOXES SHALL BE EQUIPPED FOR THE GROUNDING WIRE TERMINATIONS WITHOUT DEGRADATION OF BOX RATING.
17. VERIFY BRANCH CIRCUITRY BEFORE PERFORMING ELECTRICAL WORK.
18. NOTIFY THE PROPER UTILITY COMPANIES 48 HOURS PRIOR TO WORKING ON THE ROADWAY LIGHTING.
19. ELECTRICAL SERVICE SHALL BE 120/240 VOLT, UNLESS NOTED OTHERWISE.
20. INSTALL CABLE IN CONTINUOUS UNCUT LENGTHS BETWEEN HANDHOLES AND LIGHT POLES.
21. ALL IRON AND STEEL PRODUCTS WHICH ARE TO BE INCORPORATED INTO THE WORK SHALL BE DOMESTICALLY MANUFACTURED OR PRODUCED AND FABRICATED.

LIGHTING REMOVAL GENERAL NOTES

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.
2. BRANCH CIRCUIT WIRING FOR EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED TO NEAREST LIGHTING EQUIPMENT TO REMAIN. REMOVE EXISTING WIRING.
3. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY THIS DEMOLITION. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM BELLWOOD/MELROSE PARK, AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON. NEVER DURING NIGHT TIME.
4. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING ROADWAY FOR THIS WORK, AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REINSTALLING, REPAIRING, OR REPLACING EQUIPMENT.
5. ALL EXISTING EQUIPMENT THAT ARE TO BE REMOVED AND SALVAGED SHALL BE RETURNED TO BELLWOOD/MELROSE PARK AS DIRECTED BY THE ENGINEER.
6. LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
7. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS. THE CONTINUITY OF THE CIRCUIT OR CONDUITS WILL BE INCIDENTAL TO THE PAY ITEM, "MAINTENANCE OF LIGHTING SYSTEM."
8. IN AREAS WHERE LIGHT POLES ON SIDEWALKS ARE TO BE REMOVED, THE REMOVAL OF CABLE DUCT AND ELECTRICAL STREET LIGHTING HAND HOLES SHALL BE INCLUDED IN THE COST OF SIDEWALK REMOVAL PAY ITEM. IN AREAS WHERE LIGHT POLES ARE TO BE REMOVED ARE NOT AFFECTED BY SIDEWALK REMOVAL THE CABLE DUCT SHALL BE ABANDON IN PLACE.

Globetrotters Engineering Corporation

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SHEET INDEX, GENERAL NOTES, AND ABBREVIATIONS
25TH AVENUE GRADE SEPARATION

SCALE: NONE | SHEET 1 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-0094-00-GS	COOK	240	120

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT

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BILL OF MATERIALS

LOCATION				80400100 ELECTRIC SERVICE INSTALLATION	80400200 ELECTRIC SERVICE CONNECTION	81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	81100605 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	81100805 CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	81200230 CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	81300550 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	81300980 JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8" X 8" X 6"	81301290 JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 12" X 6"	81400100 HANDHOLE	81603100 UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	81603158 UNIT DUCT, 600V, 5-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	81702400 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO.2	82500350 LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	83600200 LIGHT POLE FOUNDATION, 24" DIAMETER	84200500 REMOVAL OF LIGHTING UNIT, SALVAGE	84200804 REMOVAL OF POLE FOUNDATION	X8211000 UNDERPASS LUMINAIRE (SPECIAL)	XX006996 LIGHT POLE, ALUMINUM, 14' SPECIAL	XX008068 LUMINAIRE INSTALLATION, TYPE 1	XX008069 LUMINAIRE INSTALLATION, TYPE 2	XX008665 LIGHT POLE, ALUMINUM, 18' SPECIAL
ALIGNMENT	DRAWING	STATION	STATION	EACH	LSUM	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH		FOOT	FOOT	EACH	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH
25TH AVE.	E-03	BOP	112+50.00	0	0	0		0			0	0			0		0		12	12					
25TH AVE.	E-04	112+50.00	EOP	0	0	0	0	0			0	0			0	0	0		6	6	0	0	0	0	0
25TH AVE.	E-05	BOP	112+50.00	0	0	84	500	0	2180		5	2			2580			80				4	14	2	12
25TH AVE.	E-06	112+50.00	EOP	0	0	60	310	110	1740		5	3	1		1670	270	1	40				3	10	0	7
25TH AVE.	E-07	110+10.00	114+00.00	1	1	0		130		1	0			810		290	0	0			18				
			TOTAL	1	1	144	810	240	3920	1	10	5	1	810	4250	560	1	120	18	18	18	7	24	2	19

LIGHTING FIXTURE SCHEDULE

TAG	LIGHT FIXTURE DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	LAMPS TYPE	LAMPS VOLT	LAMPS WATT	MOUNTING	REMARKS
A	OUTDOOR TYPE LED LUMINAIRE ON 18'-0" ALUMINUM POLE WITH 8' EXTENDED REACH BRACKET	PHILIPS RVS-55W32LED4K-R-LE3 GE ERS13BXDX5401GRAYF AEL 20BLEDE70	LED LED LED	240 MVOLT	56 54 47	POLE	EQUIPPED WITH -40° BALLAST AND FUSES.
B	OUTDOOR TYPE LED LUMINAIRE ON 14'-0" ALUMINUM POLE WITH 8' EXTENDED REACH BRACKET	PHILIPS RVS-55W32LED4K-R-LE3 GE 454893 AEL 20BLEDE70	LED LED LED	240	56 54 47	POLE	EQUIPPED WITH -40° BALLAST AND FUSES. POLE MOUNTED TO PARAPET WALL
C	OUTDOOR TYPE LED LUMINAIRE ON 18'-0" ALUMINUM POLE WITH 8' EXTENDED REACH BRACKET	PHILIPS RVS-80W48LED4K-R-LE3 GE ERS23EXDX5401GRAYF AEL 30BLEDE10	LED LED LED	240 MVOLT	81 94 108	POLE	EQUIPPED WITH -40° BALLAST AND FUSES.
D	OUTDOOR TYPE UNDERPASS LED LUMINAIRE	PHILIPS 161-4-220LA-9670-NW-240-BRP-DL	LED	240	220	WALL	EQUIPPED WITH -40° BALLAST AND FUSES.
E	(2) OUTDOOR TYPE LED 4' LUMINAIRE WITH 4000 K, 30°x 60° BEAM ANGLE	PHILIPS eW Graze QLX Powercore 523-000081-25	LED	240	40	WITHIN BOTTOM OF PYLON EXTENSION	EQUIPPED WITH -40° BALLAST AND FUSES.

CABLE AND CONDUIT SCHEDULE

TAG	DESCRIPTION
1	UNIT DUCT, 5-1/C, NO.8, 1/C NO. 8 GRD., 1¼" DIA., DIRECT BURIED.
2	UNIT DUCT, 5-1/C, NO.8, 1/C NO.8 GRD., 1 1/4" DIA., IN 3" PUSH THROUGH UNDERGROUND CONDUIT GALVANIZED STEEL CONDUIT.
3	UNIT DUCT, 5-1/C, NO.8, 1/C NO.8 GRD., 1 1/4" DIA., IN 2" PVC COATED GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE.
4	UNIT DUCT, 5-1/C, NO.8, 1/C NO.8 GRD., 1 1/4" DIA., IN 2" PVC CONDUIT, IN SIDEWALK OR IN SLAB.
5	UNIT DUCT, 5-1/C, NO.8, 1/C NO.8 GRD., 1 1/4" DIA., IN 2" PVC CONDUIT, EMBEDDED IN STRUCTURE.
6	UNIT DUCT, 4-1/C, NO.6, 1/C NO. 6 GRD., 1 1/4" DIA., IN 2" PVC COATED RGS CONDUIT, ATTACHED TO STRUCTURE.
7	3-1/C NO.2 IN UNDERGROUND 3" GALVANIZED STEEL CONDUIT.
8	3-1/C NO.2 3" PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE.
9	2" PVC COATED GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE FOR TRAFFIC CONTROLS. TRAFFIC CABLES PROVIDED BY OTHERS. PROVIDE PULL STRING IN EMPTY CONDUIT.
10	2" PVC CONDUIT, EMBEDDED IN STRUCTURE FOR TRAFFIC CONTROLS. TRAFFIC CABLES PROVIDED BY OTHERS. PROVIDE PULL STRING IN EMPTY CONDUIT.

LEGENDS

- (A) PROPOSED LIGHTING UNIT 18 FOOT ALUMINUM POLE, 8 FOOT DAVIT ARM, WITH 56 WATT LED LUMINAIRE (SEE LIGHT POLE DETAILS SHT. E-09)
- (B) PROPOSED LIGHTING UNIT 14 FOOT ALUMINUM POLE, 8 FOOT DAVIT ARM, WITH 56 WATT LED LUMINAIRE MOUNTED ON PARAPET WALL. (SEE LIGHT POLE DETAILS SHT. E-09)
- (C) PROPOSED LIGHTING UNIT 18 FOOT ALUMINUM POLE, 8 FOOT DAVIT ARM, WITH 81 WATT LED LUMINAIRE (SEE LIGHT POLE DETAILS SHT. E-09)
- [D] PROPOSED UNDERPASS LIGHTING UNIT AT 15' ABOVE GRADE.
- (E) EXISTING LIGHTING TO REMAIN
- (R) EXISTING LIGHTING UNIT TO BE REMOVED
- GROUND FIELD FOR CONTROLLERS GROUND RODS 5/8" x 10'-0" # 2/0 AWG BARE COPPER WIRE
- [J] ELECTRICAL JUNCTION BOX
- [H] ELECTRICAL HANDHOLE
- GROUND ROD 5/8" DIA. X 10'
- L-URSC 2"DIA — 2" RIGID GALVANIZED STEEL CONDUIT SLEEVE BELOW PAVEMENT L-LENGTH U-UNDERGROUND R-RIGID S-STEEL C-CONDUIT
- UNIT DUCT, 1 1/4" DIA POLYETHYLENE, SCH-40 600V, 5-1/C #8 & 1/C #8 GROUND (XLP-TYPE USE), (UNLESS NOTED OTHERWISE)
- 2" DIA. RIGID GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE, INCLUDING UNIT DUCT (SEE PLANS FOR UNIT DUCT TYPE)
- 2" DIA PVC CONDUIT EMBEDDED IN BARRIER WALL. INCLUDING UNIT DUCT. (SEE PLANS FOR UNIT DUCT TYPE)
- PROPOSED LIGHTING CONTROLLER 120/240V, 1PH, 3 WIRE
- EXISTING LIGHTING CONTROLLER 120/240V, 1PH, 3 WIRE

POLE /UNIT IDENTIFICATION

A - DENOTES CONTROLLER
a - DENOTES CIRCUIT NUMBER
X - DENOTES POLE NUMBER ON THE CIRCUIT

E-02

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL LEGENDS
25TH AVENUE GRADE SEPARATION

SCALE: NONE | SHEET 2 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-0094-00-GS	COOK	240	121
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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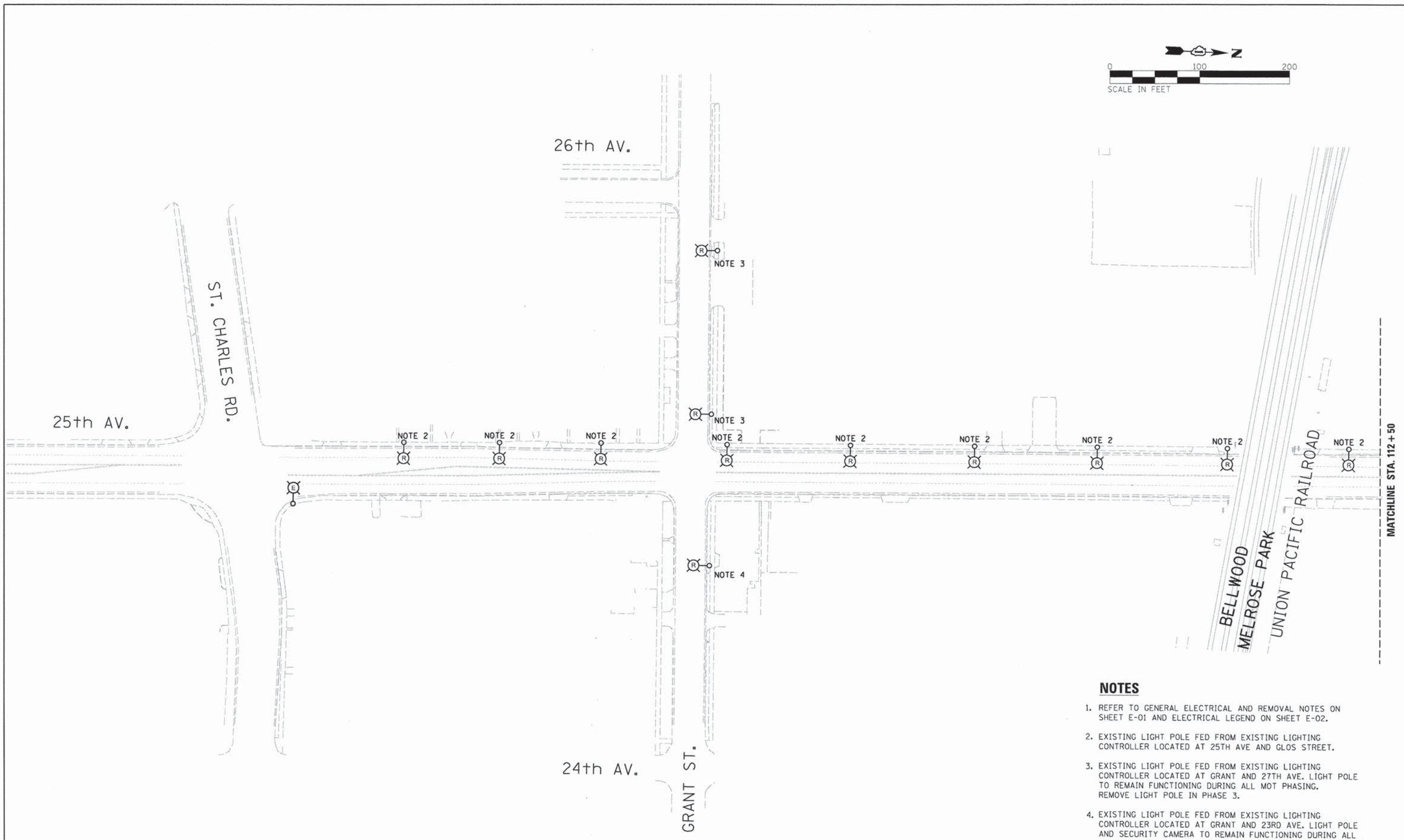

NOTES

1. REFER TO GENERAL ELECTRICAL AND REMOVAL NOTES ON SHEET E-01 AND ELECTRICAL LEGEND ON SHEET E-02.
2. EXISTING LIGHT POLE FED FROM EXISTING LIGHTING CONTROLLER LOCATED AT 25TH AVE AND GLOS STREET.
3. EXISTING LIGHT POLE FED FROM EXISTING LIGHTING CONTROLLER LOCATED AT GRANT AND 27TH AVE. LIGHT POLE TO REMAIN FUNCTIONING DURING ALL MOT PHASING. REMOVE LIGHT POLE IN PHASE 3.
4. EXISTING LIGHT POLE FED FROM EXISTING LIGHTING CONTROLLER LOCATED AT GRANT AND 23RD AVE. LIGHT POLE AND SECURITY CAMERA TO REMAIN FUNCTIONING DURING ALL MOT PHASING. CCTV CAMERA TO BE REMOVED BY THE VILLAGE OF BELLWOOD. REMOVE LIGHT POLE IN PHASE 3.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1" = 50' | SHEET 3 OF 10 SHEETS | STA. 101+41 TO STA. 112+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	122
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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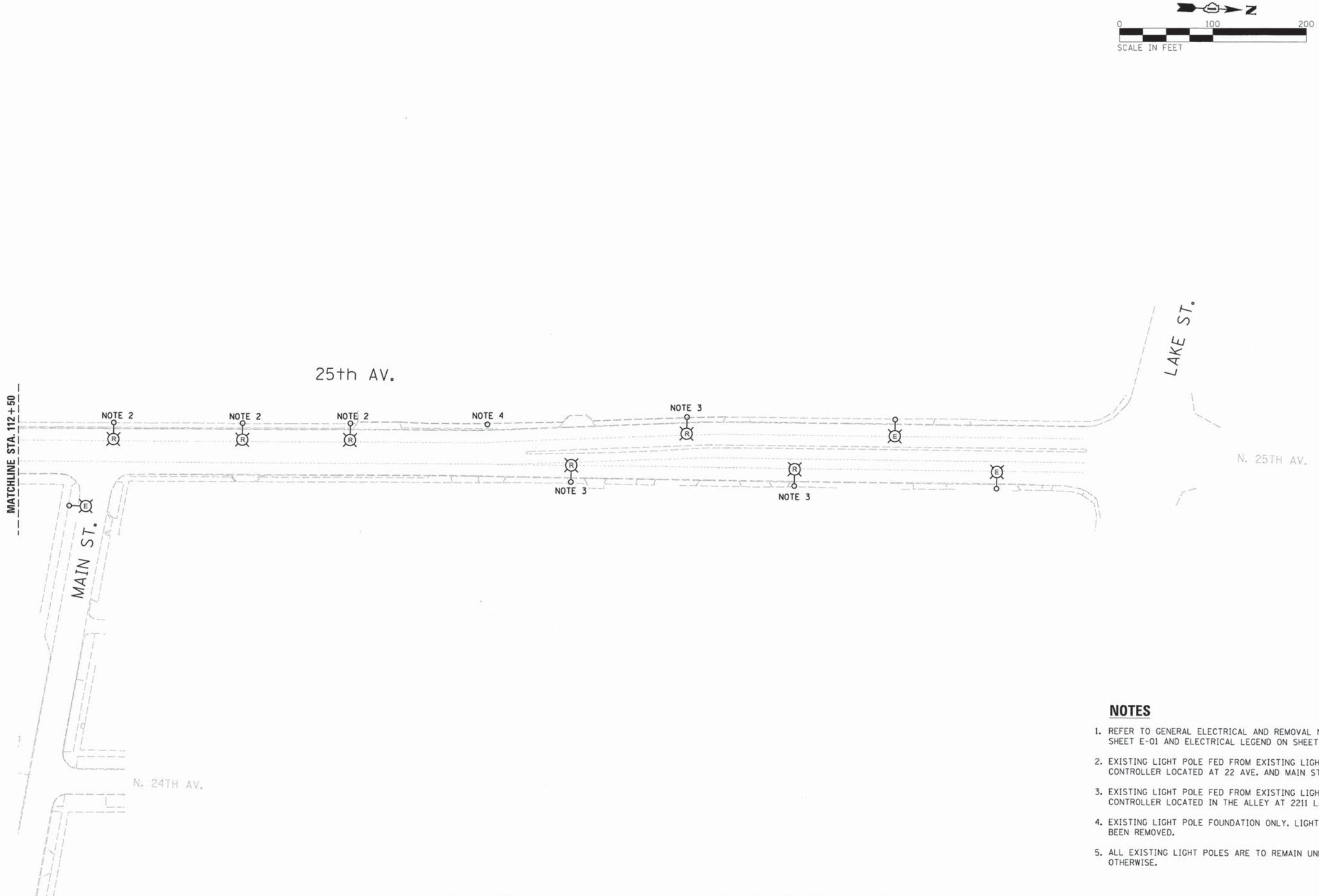

NOTES

1. REFER TO GENERAL ELECTRICAL AND REMOVAL NOTES ON SHEET E-01 AND ELECTRICAL LEGEND ON SHEET E-02.
2. EXISTING LIGHT POLE FED FROM EXISTING LIGHTING CONTROLLER LOCATED AT 22 AVE. AND MAIN STREET.
3. EXISTING LIGHT POLE FED FROM EXISTING LIGHTING CONTROLLER LOCATED IN THE ALLEY AT 2211 LAKE STREET.
4. EXISTING LIGHT POLE FOUNDATION ONLY. LIGHT POLE HAS BEEN REMOVED.
5. ALL EXISTING LIGHT POLES ARE TO REMAIN UNLESS NOTED OTHERWISE.

E-04

Globetrotters Engineering Corporation

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 112+50 TO STA. 122+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	123
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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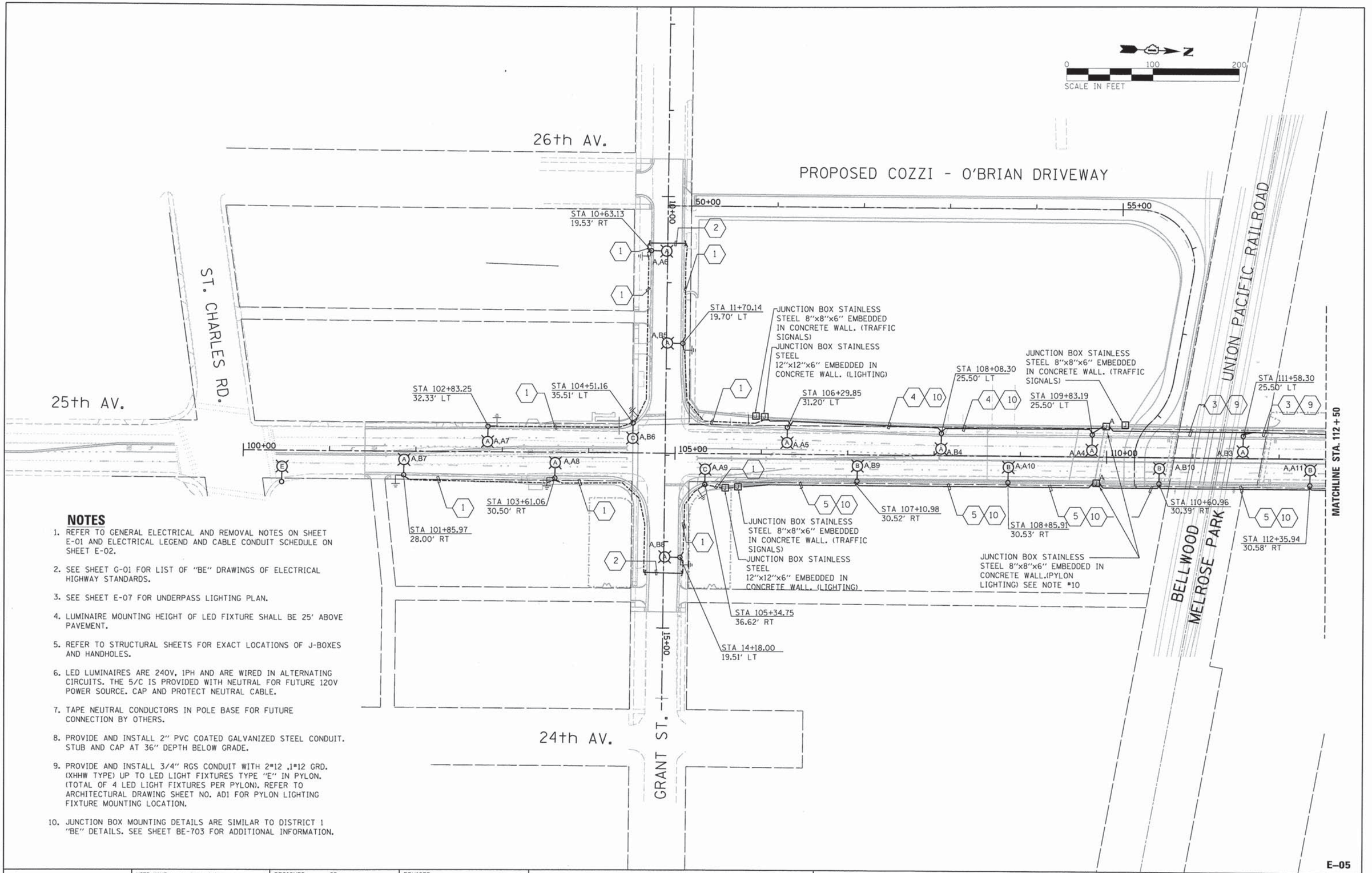

NOTES

1. REFER TO GENERAL ELECTRICAL AND REMOVAL NOTES ON SHEET E-01 AND ELECTRICAL LEGEND AND CABLE CONDUIT SCHEDULE ON SHEET E-02.
2. SEE SHEET G-01 FOR LIST OF "BE" DRAWINGS OF ELECTRICAL HIGHWAY STANDARDS.
3. SEE SHEET E-07 FOR UNDERPASS LIGHTING PLAN.
4. LUMINAIRE MOUNTING HEIGHT OF LED FIXTURE SHALL BE 25' ABOVE PAVEMENT.
5. REFER TO STRUCTURAL SHEETS FOR EXACT LOCATIONS OF J-BOXES AND HANDHOLES.
6. LED LUMINAIRES ARE 240V, 1PH AND ARE WIRED IN ALTERNATING CIRCUITS. THE 5/C IS PROVIDED WITH NEUTRAL FOR FUTURE 120V POWER SOURCE. CAP AND PROTECT NEUTRAL CABLE.
7. TAPE NEUTRAL CONDUCTORS IN POLE BASE FOR FUTURE CONNECTION BY OTHERS.
8. PROVIDE AND INSTALL 2" PVC COATED GALVANIZED STEEL CONDUIT. STUB AND CAP AT 36" DEPTH BELOW GRADE.
9. PROVIDE AND INSTALL 3/4" RGS CONDUIT WITH 2#12 ,1#12 GRD. (XHHW TYPE) UP TO LED LIGHT FIXTURES TYPE "E" IN PYLON. (TOTAL OF 4 LED LIGHT FIXTURES PER PYLON). REFER TO ARCHITECTURAL DRAWING SHEET NO. AD1 FOR PYLON LIGHTING FIXTURE MOUNTING LOCATION.
10. JUNCTION BOX MOUNTING DETAILS ARE SIMILAR TO DISTRICT 1 "BE" DETAILS. SEE SHEET BE-703 FOR ADDITIONAL INFORMATION.

E-05

Globetrotters Engineering Corporation

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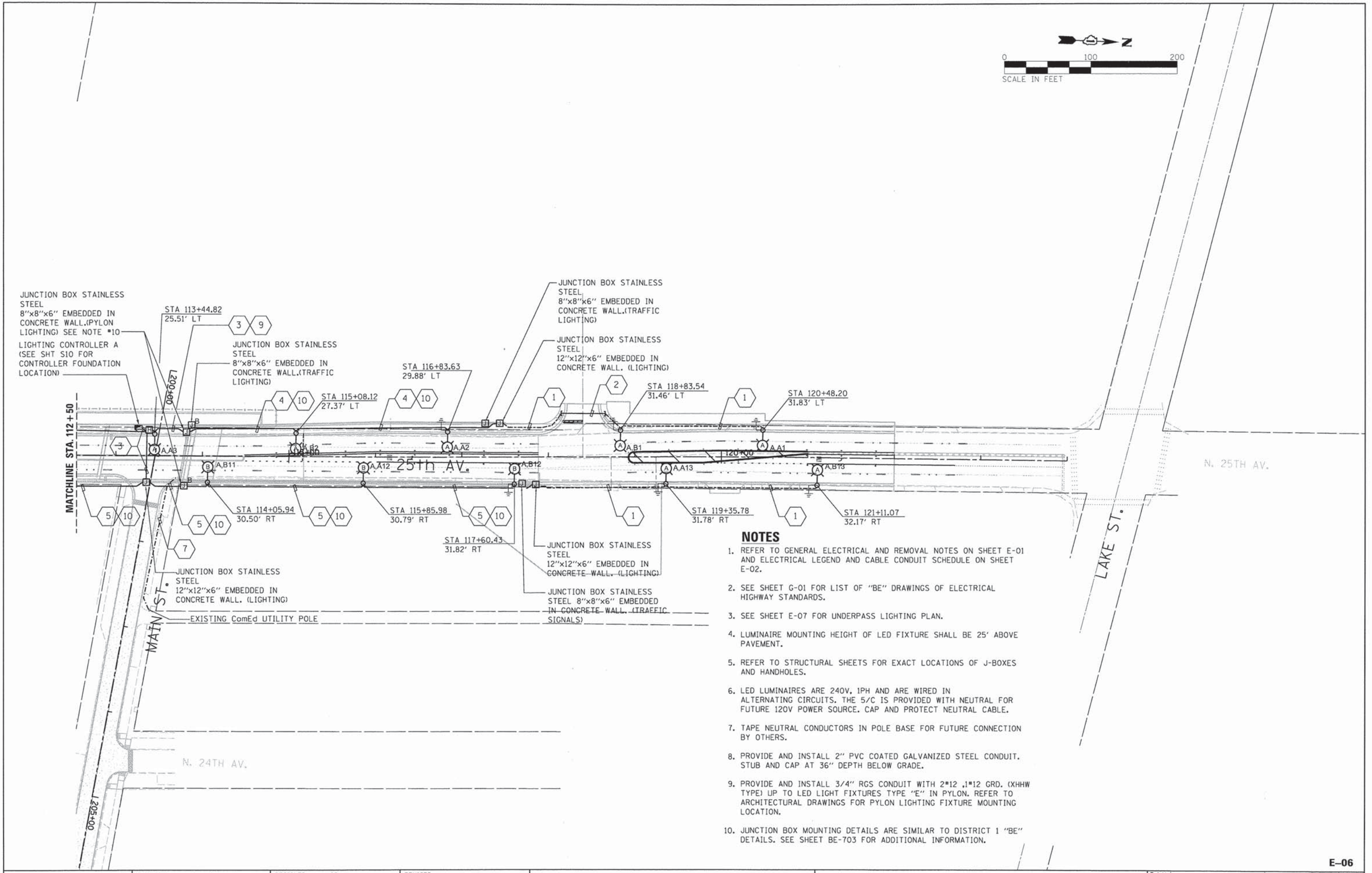
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 101+41 TO STA. 112+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	124
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		



NOTES

1. REFER TO GENERAL ELECTRICAL AND REMOVAL NOTES ON SHEET E-01 AND ELECTRICAL LEGEND AND CABLE CONDUIT SCHEDULE ON SHEET E-02.
2. SEE SHEET G-01 FOR LIST OF "BE" DRAWINGS OF ELECTRICAL HIGHWAY STANDARDS.
3. SEE SHEET E-07 FOR UNDERPASS LIGHTING PLAN.
4. LUMINAIRE MOUNTING HEIGHT OF LED FIXTURE SHALL BE 25' ABOVE PAVEMENT.
5. REFER TO STRUCTURAL SHEETS FOR EXACT LOCATIONS OF J-BOXES AND HANDHOLES.
6. LED LUMINAIRES ARE 240V, 1PH AND ARE WIRED IN ALTERNATING CIRCUITS. THE 5/C IS PROVIDED WITH NEUTRAL FOR FUTURE 120V POWER SOURCE. CAP AND PROTECT NEUTRAL CABLE.
7. TAPE NEUTRAL CONDUCTORS IN POLE BASE FOR FUTURE CONNECTION BY OTHERS.
8. PROVIDE AND INSTALL 2" PVC COATED GALVANIZED STEEL CONDUIT. STUB AND CAP AT 36" DEPTH BELOW GRADE.
9. PROVIDE AND INSTALL 3/4" RGS CONDUIT WITH 2#12 ,1#12 GRD. (XHHW TYPE) UP TO LED LIGHT FIXTURES TYPE "E" IN PYLON. REFER TO ARCHITECTURAL DRAWINGS FOR PYLON LIGHTING FIXTURE MOUNTING LOCATION.
10. JUNCTION BOX MOUNTING DETAILS ARE SIMILAR TO DISTRICT 1 "BE" DETAILS. SEE SHEET BE-703 FOR ADDITIONAL INFORMATION.

E-06

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - CD	REVISED -
	DRAWN - CD	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - IB	REVISED -
PLOT DATE = 3/21/2014	DATE - 1-06-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
25TH AVENUE GRADE SEPARATION

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 112+50 TO STA. 122+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	125
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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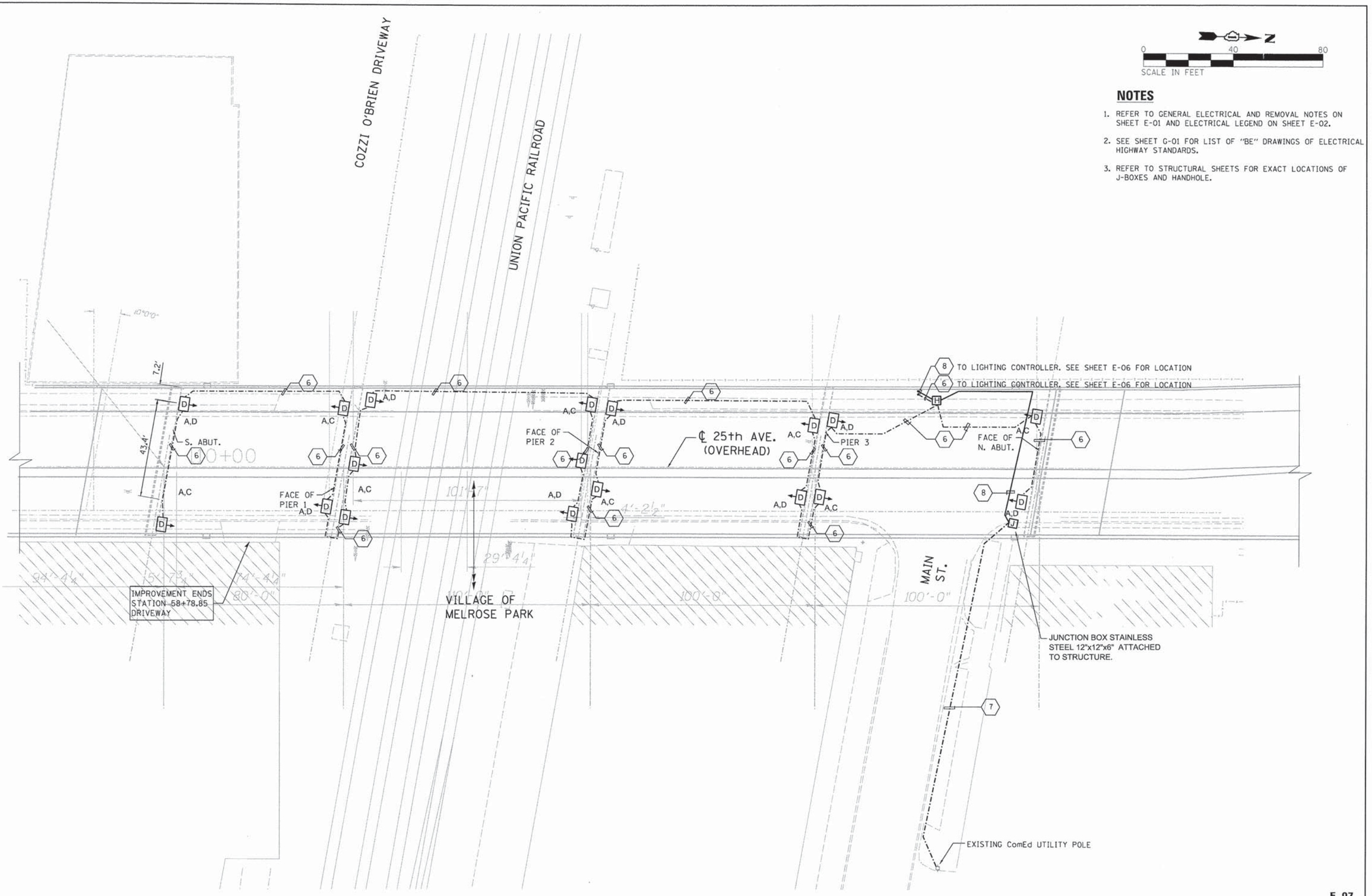

E–07

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - CD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED UNDERPASS LIGHTING PLAN 25TH AVENUE GRADE SEPARATION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CD	REVISED -			2714	99-00094-00-GS	COOK	240	126
	PLOT SCALE = 20.0000 ' / in.	CHECKED - IB	REVISED -					CONTRACT NO. 63887		
	PLOT DATE = 3/21/2014	DATE - 1-06-2014	REVISED -		SCALE: 1"=20' SHEET 7 OF 10 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

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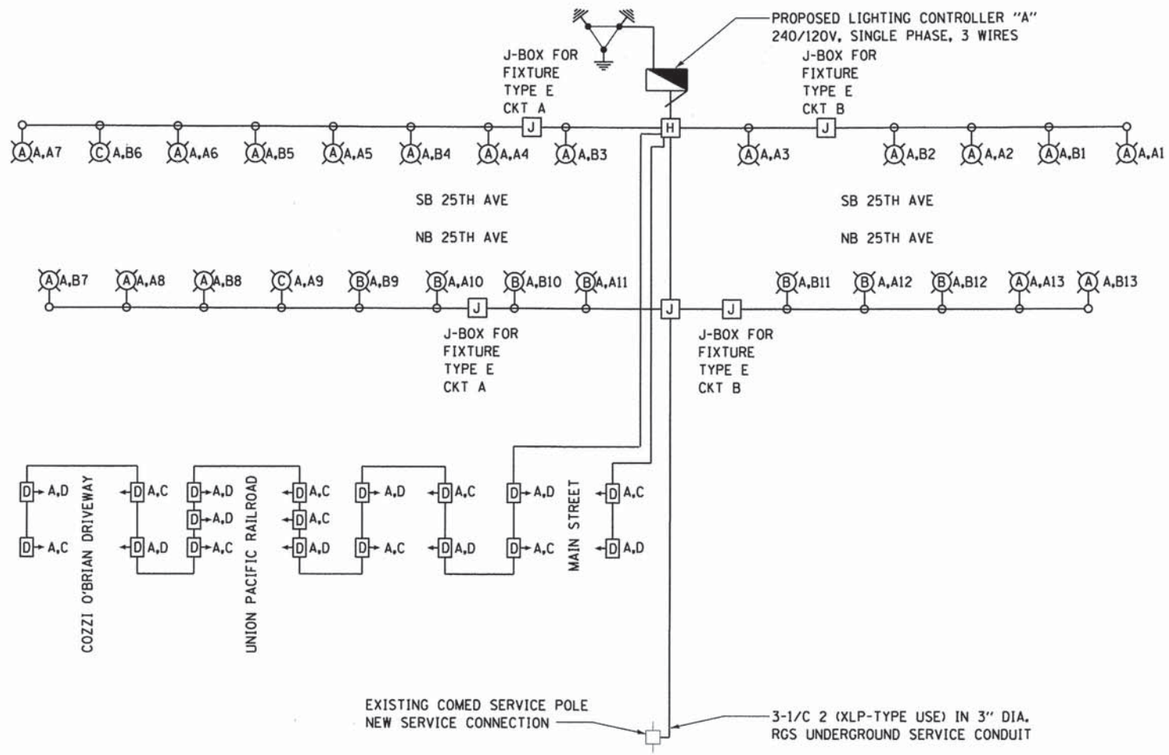
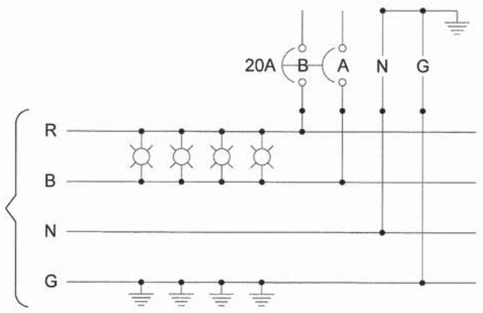


LOAD TABLE (AMPS)
CONTROLLER
240/120V, 1PH, 3W

CKT. TAG	PHASE A WATTS	PHASE B WATTS	LUMINAIRES
A	377	----	A,B,C,E
	----	377	A,B,C,E
B	377	----	A,B,C,E
	----	377	A,B,C,E
C	880	----	D
	----	880	D
D	880	----	D
	----	880	D
TOTAL WATTS	2514	2514	A,B,C,D

TOTAL CONN. LOAD	5028 WATTS
TOTAL CONN. LOAD	21 AMPS



LUMINAIRE WIRING DETAIL (TYPICAL)

NOTE:

1. LOADING ASSUMES 22% BALLAST FACTOR ON ALL LUMINAIRES.

E-08

Globetrotters Engineering Corporation

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	DRAWN - CD	REVISED -	
PLOT SCALE = 50.0000 '/ in.	CHECKED - IB	REVISED -	
PLOT DATE = 3/21/2014	DATE - 1-06-2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE DIAGRAM - CONTROLLER A
25TH AVENUE GRADE SEPARATION

SCALE: N.T.S. | SHEET 8 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	127
		CONTRACT NO. 63887		
	ILLINOIS	FED. AID PROJECT		

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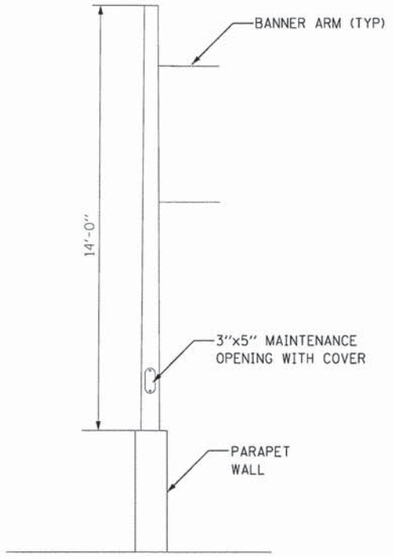
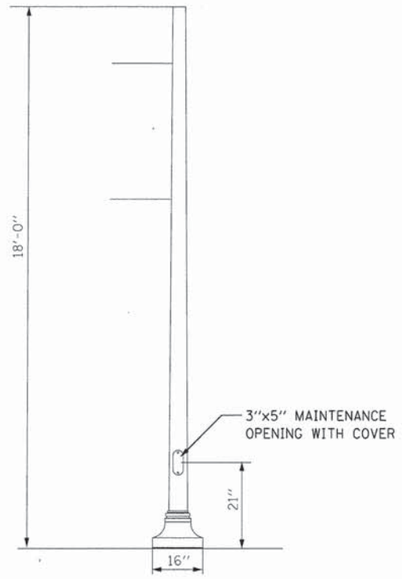


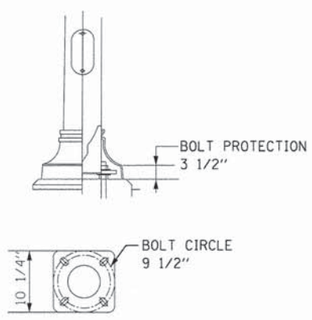
ALUMINUM TAPERED POLE (14' HIGH)
N.T.S.



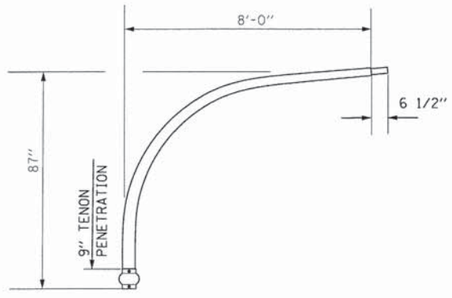
ALUMINUM TAPERED POLE (18' HIGH)
N.T.S.

NOTES:

1. 18', 14' POLES AND DAVIT ARM DETAILS ON THIS SHEET ARE SIMILAR TO DISTRICT 1 "BE" DAVIT LIGHT POLE DETAIL. SEE SHEET BE-412 FOR ADDITIONAL INFORMATION.
2. BASE DETAIL, BOLT CIRCLE ON THIS SHEET IS SIMILAR TO DISTRICT 1 "BE" LIGHT POLE MOUNTED TO PARAPET WALL. SEE SHEET BE-330 FOR ADDITIONAL INFORMATION.



BASE DETAIL
N.T.S.



EXTENDED REACH BRACKET DETAIL
N.T.S.

E-09

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - CD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL DETAILS 25TH AVENUE GRADE SEPARATION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CD	REVISED -			2714	99-00094-00-GS	COOK	240	128
	PLOT SCALE = 50.0000 '/ in.	CHECKED - IB	REVISED -					CONTRACT NO. 63887		
	PLOT DATE = 3/21/2014	DATE - 1-06-2014	REVISED -		SCALE: N.T.S. SHEET 9 OF 10 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

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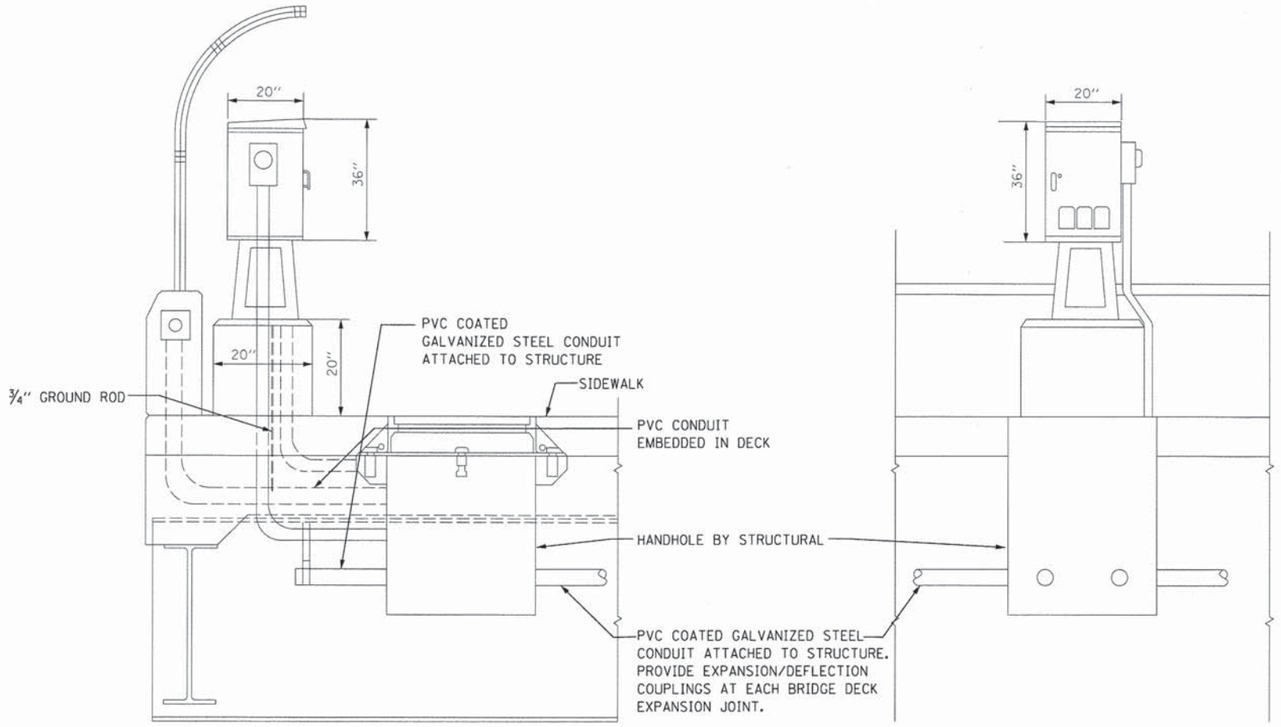
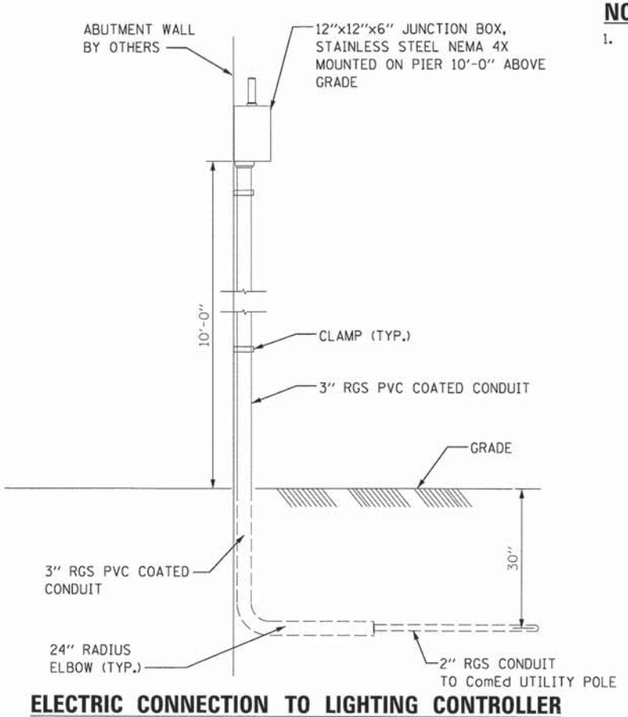


INSTALLATION DETAIL FOR PAD MOUNTED LIGHTING CONTROLLER

1B DETAIL



ELECTRIC CONNECTION TO LIGHTING CONTROLLER

N.T.S.

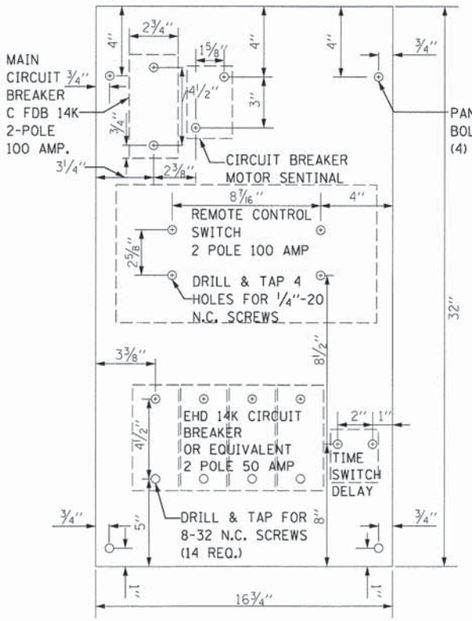
NOTES:

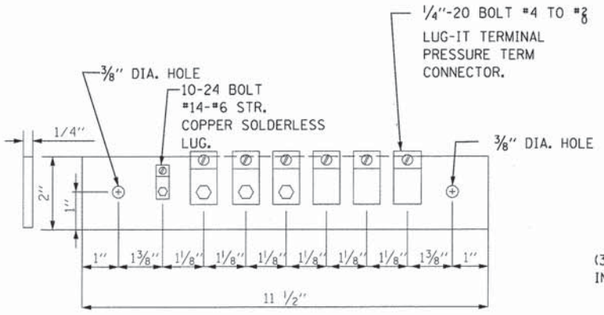
1. 100A, 240/120V, 3PH, 3W LIGHTING COTROLLER DETAIL ON THIS SHEET IS SIMILAR TO DISTRICT 1 "BE" LIGHTING CONTROLLER SINGLE DOOR. SEE SHEET BE-215 FOR ADDITIONAL INFORMATION.

NOTES:

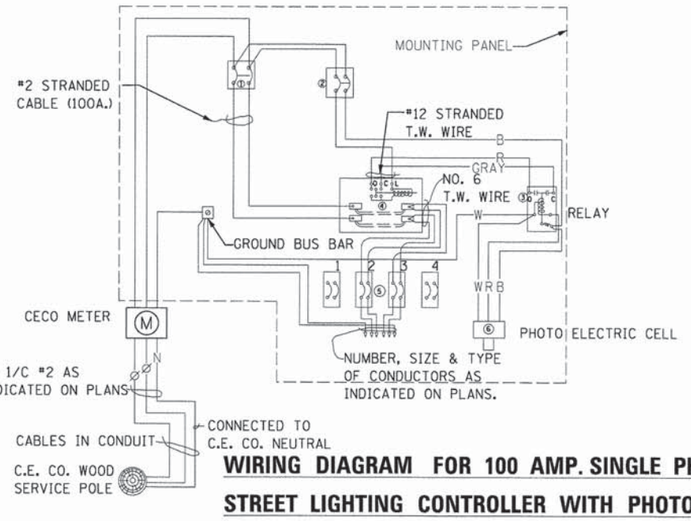
1. COORDINATE WITH BRIDGE STRUCTURAL WORK.
2. JUNCTION BOX ATTACHED TO PIER/ ABUTMENT WALL MUST BE ATTACHED WITH EXPANSION ANCHORS AS RECOMMENDED BY MANUFACTURER. EXPANSION ANCHORS POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED.

BACK PANEL 1" THICK PHENOLIC LINEN BASE





1/4" THICK COPPER BUS BAR TO BE MOUNTED ON LOWER LEFT SIDE OF CABINET.



WIRING DIAGRAM FOR 100 AMP. SINGLE PHASE 240V. STREET LIGHTING CONTROLLER WITH PHOTO CELL (120V.)

1. CIRCUIT BREAKER-2 POLE, 100A
2. MANUAL STARTER-2 POLE, 5.3A. THERMAL OVERLOAD
3. RELAY
4. REMOTE CONTROL SWITCH-2 POLE, 100A, 240 V. A.C. COIL
5. BRANCH CIRCUIT BREAKER-2 POLE, 20A.
6. PHOTO ELECTRIC CELL

NOTES

1. MOUNT PHOTOCELL IN BOTTOM OF CABINET AT RIGHT SIDE. BOTTOM OF PHOTOCELL TO BE FLUSH OR SLIGHTLY ABOVE OUTSIDE EDGE OF CABINET.
2. GROUND BUS TO BE MOUNTED ON LEFT SIDE WALL OF CABINET

Globetrotters Engineering Corporation

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PLOT DATE = 3/21/2014	DATE - 1-06-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS
25TH AVENUE GRADE SEPARATION

SCALE: N.T.S. | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	129
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-1R

SHEET 1 OF 1

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.8	Boring Location: 1902445.98, 1112104.28	
Drilling Company: Earth Solutions	Date Started: 04/26/13	Date Finished: 04/26/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 10.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA		Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna		Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Waxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
632			(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1140.
	2		(CH) Greenish gray to light brown **CLAY**, soft, high plasticity, trace fine gravel, dark gray mottling, dry to moist.	SS-1	2-3.5	12/18	5 4 5	9	24.5	2.5	0.0	0.0	
630	4		(CH) Greenish gray to light brown **CLAY**, very soft, high plasticity, trace fine gravel, brown mottling, moist.	SS-2	3.5-5	13/18	2 2 3	5	31.6	1.75	0.0	0.0	
628	6		(CL) Brown **CLAY**, soft, trace fine gravel, moist.										
626			(CL) Gray **SANDY CLAY**, soft, brown mottling, wet.	SS-3	6-7.5	18/18	3 4 6	10		1.0	0.0	0.0	
624	8		(CL) Brown **CLAY**, soft, trace fine gravel, moist.										
	10		(ML) Brown **CLAYEY SILT**, trace fine gravel.	SS-4	8.5-10	15/18	6 6 9	15	20.6	NA	0.0	0.0	

End of boring at 10' bgs at 1155.

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3R

SHEET 1 OF 1

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.87	Boring Location: 1903246.86, 1111772.51	
Drilling Company: Earth Solutions	Date Started: 04/26/13	Date Finished: 04/26/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 10.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA		Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna		Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Waxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
632			(FILL) Dark brown **CLAY**, wood pieces, very moist.				7						*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1405.
	2		(FILL) Dark brown **GRAVELLY SAND.**	SS-1	0-2	22/24	5 5 7	10		2.0	0.0	0.0	
			(FILL) Dark brown **CLAY**, high plasticity, soft, trace fine gravel.										Collect sample SB-3R-PSI from 0-2' bgs at 1410.
630	4		No recovery from 2-4' bgs.	SS-2	2-4	0/24	4 3 4 4	7		NA	0.0	0.0	
			(FILL) Dark brown **SAND AND GRAVEL**, with wood pieces, moist.	SS-3	4-6	2/24	4 4 6 6	10		NA	0.0	0.0	
628	6		(CL) Brown **SILTY CLAY**, high plasticity, stiff, trace fine gravel, light brown and light gray mottling, moist.	SS-4	6-8	24/24	8 8 13 18	21	18.8	3.5	0.0	0.0	
626	8		(CL) Brown **SILTY CLAY**, medium plasticity, trace fine gravel, light brown mottling, moist.	SS-5	8-10	24/24	5 12 15 21	27	17.4	3.5	0.0	0.0	
624	10												

End of boring at 10' bgs at 1425.

URS

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LOG OF BORING SB-4R-PSI

SHEET 1 OF 1

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 631.98	Boring Location: 1904204.11, 1112045.03	
Drilling Company: Earth Solutions	Date Started: 04/24/13	Date Finished: 04/24/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 10.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 9.7		Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna		Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Waxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
			(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1145.
630	2		(FILL) Dark brown, fine to medium **CLAYEY SILT**, some fine to medium sand and gravel.	SS-1	1-3	9/24	12 5 4 4	9	24.8	NA	0.0	0.0	
628	4		(FILL) Brown **SILTY CLAY**, (CL), medium stiff, high plasticity, light gray mottling, moist to wet.	SS-2	3-5	19/24	2 5 7 7	12	19.2	3.0	0.0	0.0	Collect sample SB-4R-PSI from 3-4' bgs at 1155.
			(FILL) **CLAYEY SAND AND GRAVEL.**										
626	6		(CL) Brown **SILTY CLAY**, high plasticity, very stiff, trace fine gravel, moist.	SS-3	5-7	24/24	4 6 10 14	16	17.0	4.0	0.0	0.0	
624	8		(CL) Brown **SILTY CLAY**, medium stiff, high plasticity, trace fine gravel, moist.	SS-4	7-9	24/24	8 12 24 24	36	30.2	3.0	0.0	0.0	
622	10		(CL) Brown **SILTY CLAY**, soft, high plasticity, trace fine gravel, very moist to moist.	SS-5	9-10	4/12	14 16	30		2.0	0.0	0.0	
			(SC) Brown **CLAYEY SAND AND GRAVEL**, wet.										

End of boring at 10' bgs at 1205.

SBL-1

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN MA	REVISED -	
	PLOT SCALE = 10.0000 ' / in.	CHECKED RH	REVISED -	
	PLOT DATE = 3/21/2014	DATE 3-24-2014	REVISED -	

SOIL BORING LOGS
25TH AVENUE GRADE SEPARATION

SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	130
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

FILE NAME = P:\projects\12024\000\C\CADD_Sheets\D116899-sht-Boring1.dgn
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CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-5R-PSI

SHEET 1 OF 1

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.21	Boring Location: 1902629.92, 1112135.48	
Drilling Company: Earth Solutions	Date Started: 04/24/13	Date Finished: 04/24/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 10.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan/Head (ppm)	PID/FID (ppm)	REMARKS
			(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0825.
632	2		(CL) Dark brown **SILTY CLAY**, stiff, high plasticity, trace fine to medium gravel, moist.										
				SS-1	1-3	12/24	7 7 9 12	16	22.5	3.0	0.0	0.0	Collect sample SB-5R-PSI from 1-3' bgs at 0830.
630	4		(CL) Light gray **SILTY CLAY**, medium stiff, trace fine to medium gravel, brown mottling, moist.	SS-2	3-5	21/24	4 5 6 7	11	21.6	2.0	0.0	0.0	
628	6		(CL) Brown **SILTY CLAY**, stiff, trace fine to medium gravel, moist.	SS-3	5-7	24/24	5 9 12 17	23	29.3	3.0	0.0	0.0	
626	8		(CL) Brown **SILTY CLAY**, soft to medium stiff, high plasticity, trace fine gravel, moist to very moist.	SS-4	7-9	24/24	10 17 20 26	37	17.2	3.0 0.75; 6.5*	0.0	0.0	
624	10		(CL) Brown **SILTY CLAY**, high plasticity, medium stiff, trace fine gravel, moist.	SS-5	9-10	11/12	5 7	12	18.7	2.0	0.0	0.0	

End of boring at 10' bgs at 0845.

URSCHI-MOD GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 3/18/13

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-6R

SHEET 1 OF 1

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.95	Boring Location: 1902622.56, 1111799.7	
Drilling Company: Earth Solutions	Date Started: 04/26/13	Date Finished: 04/26/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 10.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan/Head (ppm)	PID/FID (ppm)	REMARKS
			(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1220.
632	2		(CL) Brown to reddish orange **CLAY**, medium plasticity, medium stiff, trace fine to medium gravel, dark brown mottling, dry.	SS-1	1-2.5	11/18	5 6 10	16	27.5	3.0	0.0	0.0	
630	4		(CL) Light brown **SILTY CLAY**, high plasticity, medium stiff to soft, trace fine gravel, dark brown mottling, moist.	SS-2	3.5-5	14/18	2 2 3	5	29.0	2.5	0.0	0.0	
628	6		(CL) Brown **SILTY CLAY**, soft to very soft, trace fine gravel, trace organics, moist.	SS-3	6-7.5	18/18	3 4 8	12	14.8	0.75	0.0	0.0	
626	8		(CL) Brown and reddish orange **SILTY CLAY**, stiff, trace fine to medium gravel, dark brown mottling, moist.	SS-4	8.5-10	16/18	7 9 13	22	15.9	3.0	0.0	0.0	
624	10												

End of boring at 10' bgs at 1240.

URSCHI-MOD GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 3/18/13

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-2R-PSI

SHEET 1 OF 1

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.98	Boring Location: 1902951.71, 1111779.61	
Drilling Company: Earth Solutions	Date Started:	Date Finished:	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 10.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 9	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan/Head (ppm)	PID/FID (ppm)	REMARKS
			(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1305.
			(FILL) Dark brown **SANDY GRAVEL**, very moist.										
632	2		(CL) Dark gray **SILTY CLAY**, medium stiff, moist.	SS-1	1-3	12/24	11 3 5 6	8	24.1	3.0	0.0	0.0	Collect sample SB-2R-PSI from 3-5' bgs at 1315.
			(CL) Brown **CLAY**, trace fine to medium gravel, greenish gray mottling.										
630	4		(SC) Brown **CLAYEY SAND AND GRAVEL**, light brown gravel, wet.	SS-2	3-5	15/24	2 3 4 5	7		1.0	0.0	0.0	
			(CL) Light brown **CLAY**, brown mottling, soft, very moist.										
628	6		(CL) Brown **CLAY**, trace fine to medium gravel, stiff, medium plasticity, moist.	SS-3	5-7	21/24	6 8 12 20	20	18.4	3.0	0.0	0.0	
626	8		(CL) Brown **CLAY**, very stiff to hard, medium plasticity, moist.	SS-4	7-9	24/24	4 10 15 23	25	18.1	4.5+	0.0	0.0	
624	10		(CH) Brown **CLAY**, some fine to medium gravel, stiff, high plasticity, wet.	SS-5	9-10	12/12	7 10	17	19.5	3.5	0.0	0.0	

End of boring at 10' bgs at 1325.

URSCHI-MOD GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 3/18/13

SBL-2

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED MA	REVISED -	
	DRAWN MA	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED RH	REVISED -	
PLOT DATE = 3/21/2014	DATE 3-24-2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
25TH AVENUE GRADE SEPARATION

SCALE: N.T.S. | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	131
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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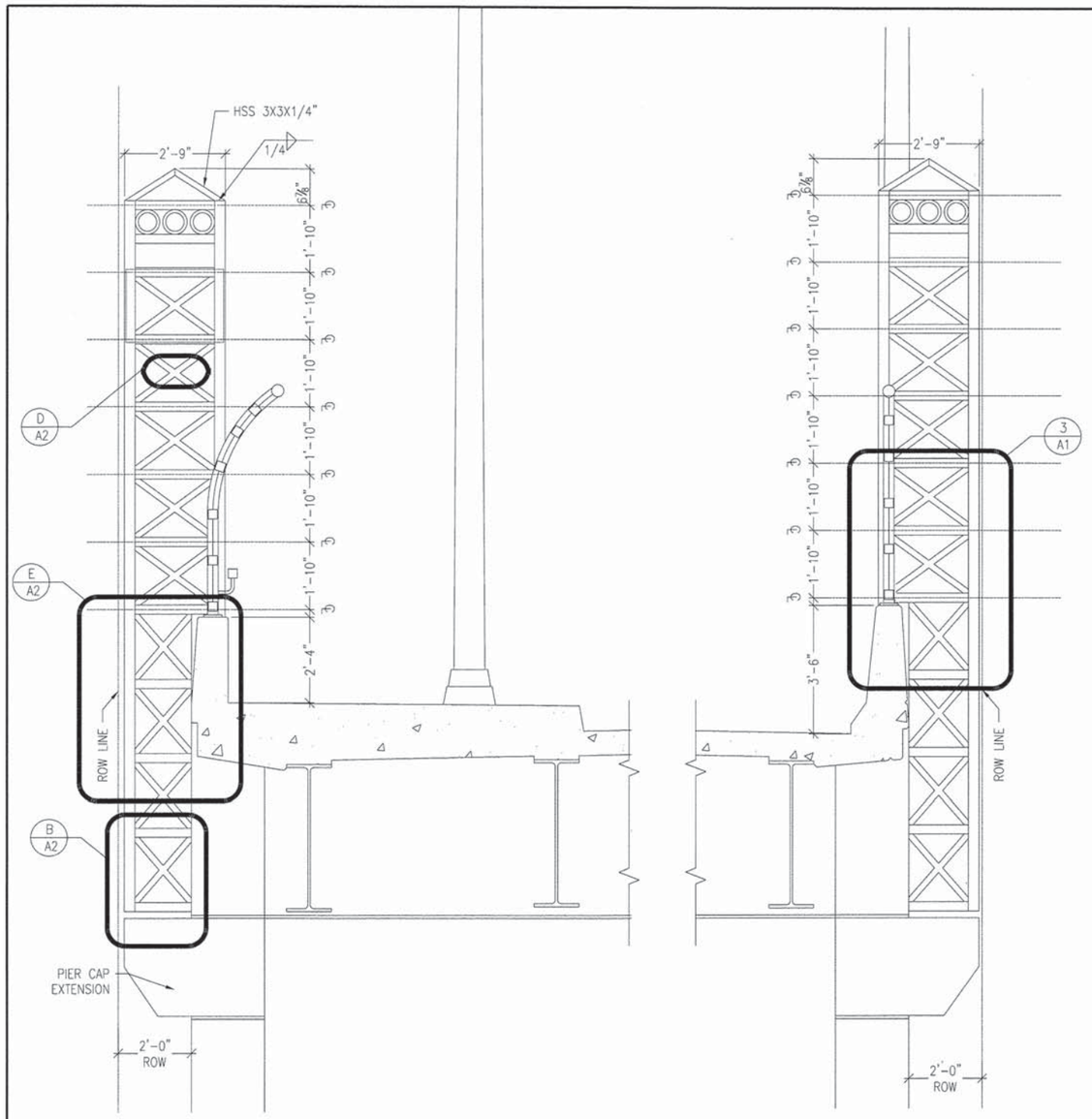
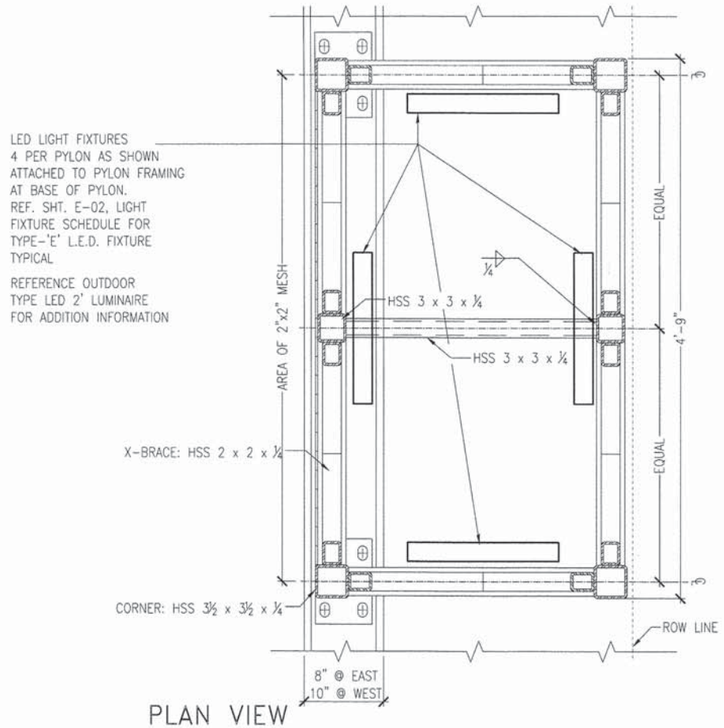
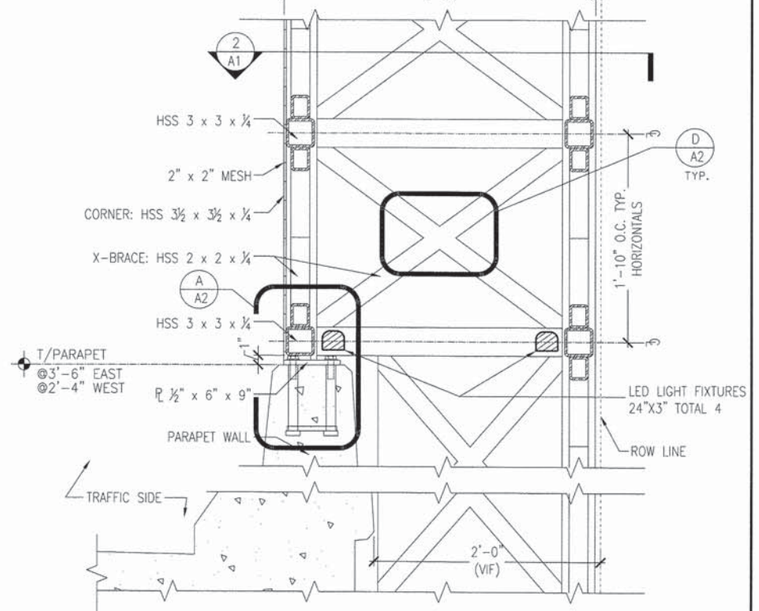


1 SECTION AT PYLON/VIEW NORTH (TYPICAL OF 4)
SCALE: 1/2"=1'-0"



2 PLAN VIEW
PYLON DETAIL AT EAST PARAPET
SCALE: 1 1/2"=1'-0"



3 PYLON DETAIL AT EAST PARAPET
SCALE: 1 1/2"=1'-0"

GENERAL NOTES

1. ALL TUBE SECTIONS ARE GALVANIZED ACCORDING TO ARTICLE 509.05 OF THE STANDARD SPECIFICATIONS.
2. ALL WELDED CONSTRUCTION, TYPICAL.
3. 2"X2" GALVANIZED MESH TO EXTEND ACROSS ROADWAY SIDE OF EACH PYLON, TO HEIGHT OF ADJACENT FENCE.

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - JG	REVISED
	CHECKED - RD	REVISED
PLOT SCALE = None	DRAWN - MH	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 132 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	132
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

A1

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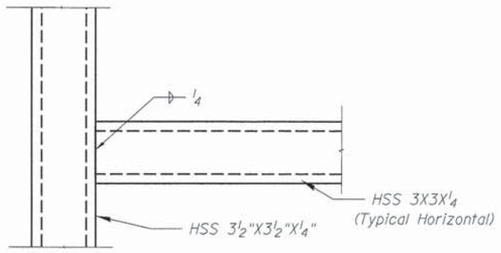
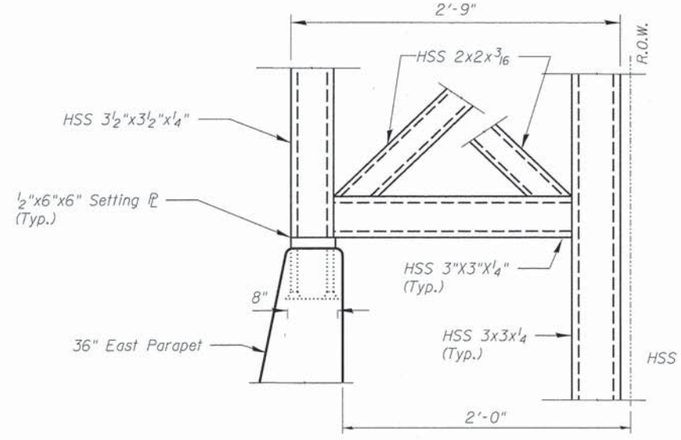


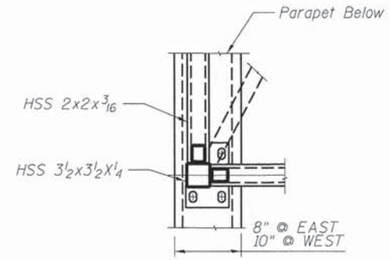
Per AISC J4:
For Shear yielding, Rn= FyAg
Desing Strength = ϕFyAg = ϕFy(Ae/0.85), where
Ae= 5/8R (AISC Table J2)
Therefore, ϕFyAg=0.80(LRFD*)(42ksi**)(5/8R)
R=1.11" for HSS 3X3X1/4
Design Strength of HSS 3x3x1/4=23.3 k/in
Total Shear @ Base= 1.32 <<23.3 k/in
Total Mmax @ Base=161 k-in, meaning weld req'd. is minimal.

*Per Table J2.5
**=0.6(70 ksi), per Table J2.5

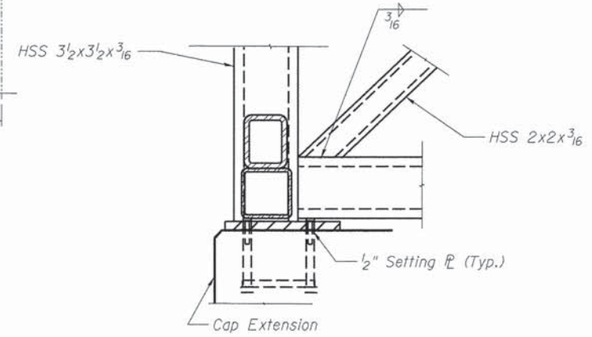
WELD DETAIL - TYP



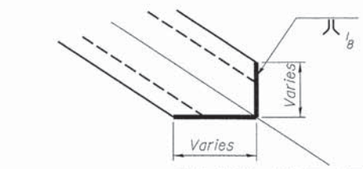
A1 DETAIL A



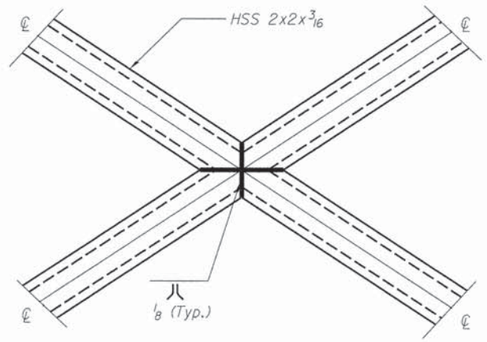
A1 DETAIL B - PLAN VIEW AT WEST PARAPET



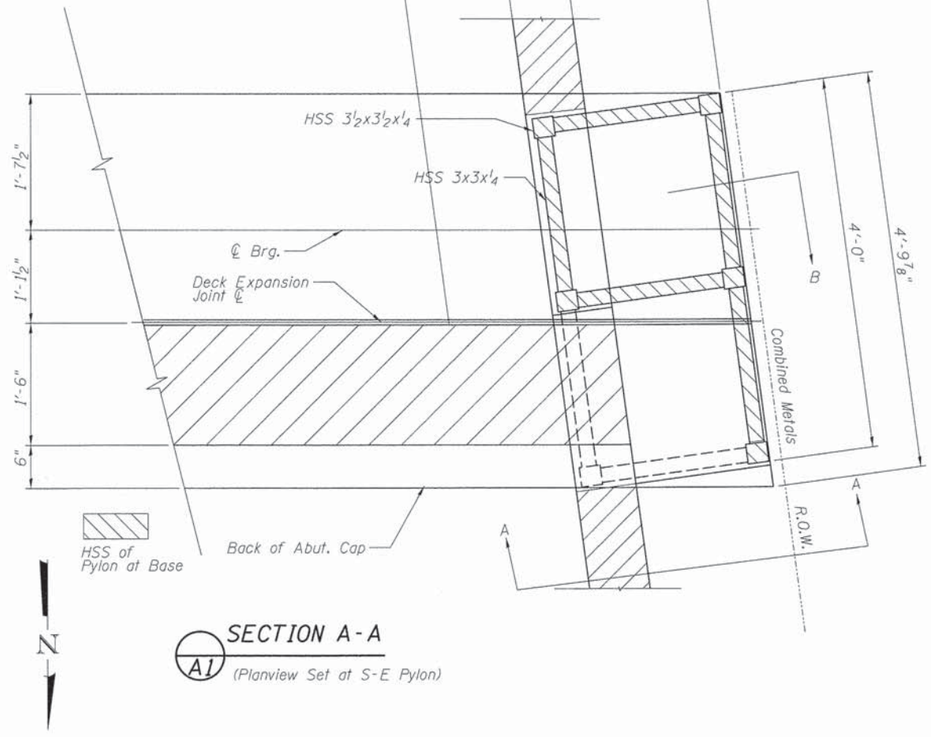
A1 DETAIL B-ELEVATION DETAIL AT WEST PARAPET



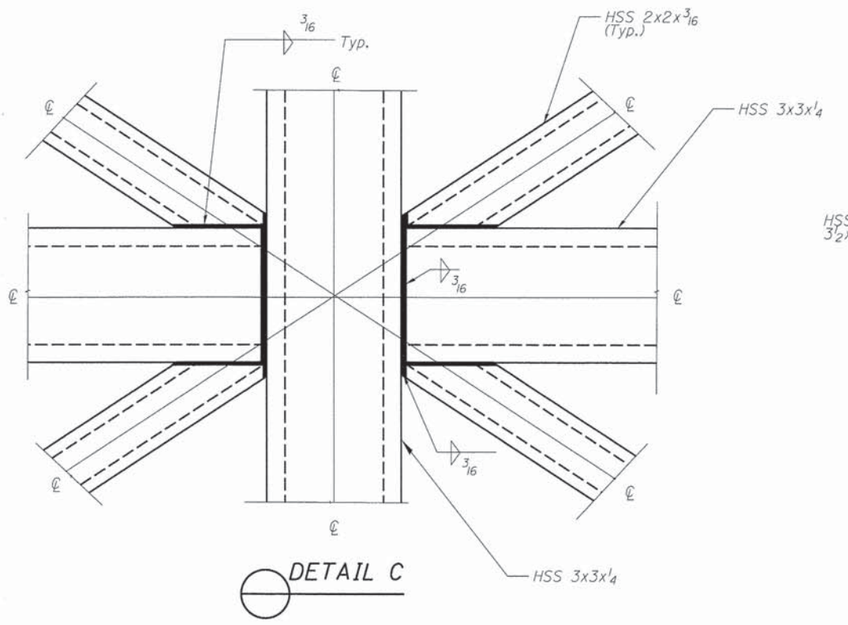
SPLICE (SEE DTL. D)



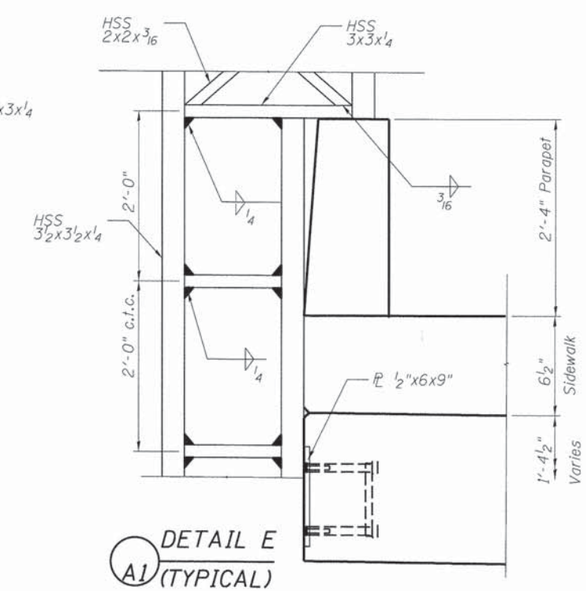
A1 DETAIL D - TYPICAL



A1 SECTION A-A
(Planview Set at S-E Pylon)



DETAIL C



A1 DETAIL E (TYPICAL)

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - DH	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PYLON DETAILS
STRUCTURE NO. 16-6351
SHEET NO. 133 OF 240 SHEETS

A2

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	133
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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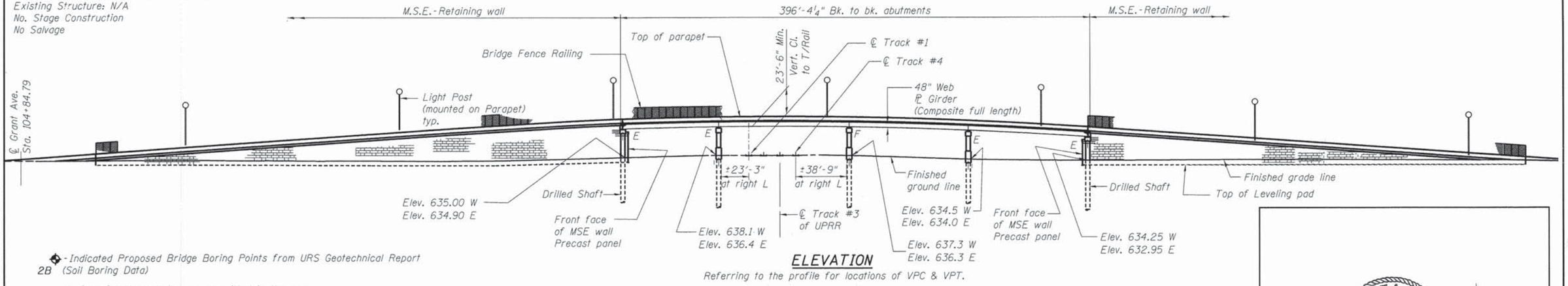
Bench Mark: West Bonnet Bolt on fire hydrant at northeast corner.
25th Ave. & Lake St. Elev. 634.60.

Existing Structure: N/A
No. Stage Construction
No Salvage



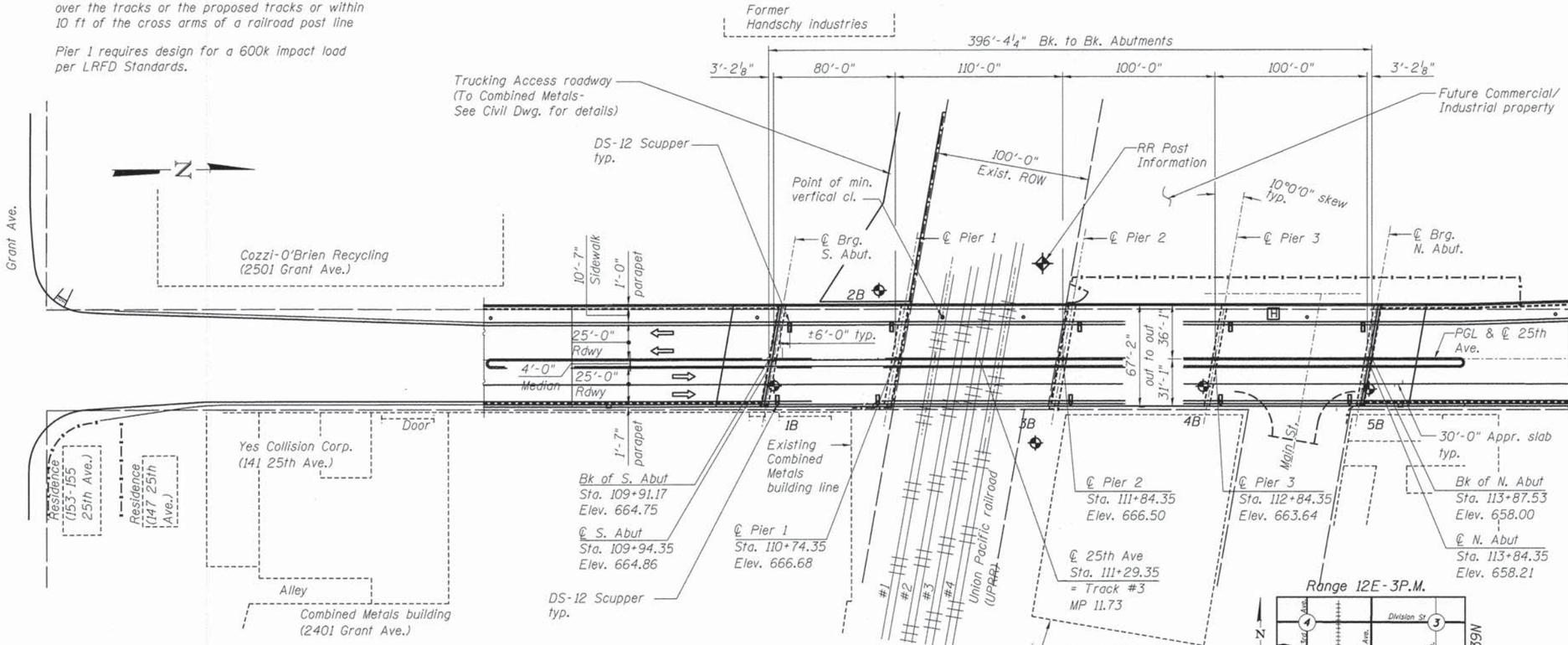
ELEVATION

Referring to the profile for locations of VPC & VPT.

◆ 2B - Indicated Proposed Bridge Boring Points from URS Geotechnical Report (Soil Boring Data)

No free fall deck drains are permitted in the span over the tracks or the proposed tracks or within 10 ft of the cross arms of a railroad post line

Pier 1 requires design for a 600k impact load per LRFD Standards.



PLAN

UPRR-MP=001173

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge
Design Specifications, 6th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

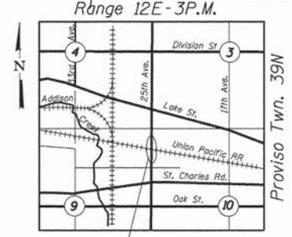
DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
f'c = 4,500 psi (Precast panels)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 Second (SD1) = 0.04
Design Spectral Acceleration at 0.2 Second (SDS) = 0.09
Soil Site Class = C



LOCATION SKETCH

ROBERT A. DOGGETT
081-005462
LICENSED STRUCTURAL ENGINEER
OF ILLINOIS

3/21/14

Expires 11/30/14

I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges

GENERAL PLAN AND ELEVATION
25th AVE. OVER U.P.R.R. TRACKS
MELROSE PARK/BELLWOOD, IL
F.A.U. RTE. 2714
PROVISO TOWNSHIP SECTION 3, 4, 9 & 10
COOK COUNTY STATION 111+28.59
STRUCTURE NO. 016-6351

S1

Globetrotters Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/20/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-6351
SHEET NO. 134 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	134

CONTRACT NO. 63887

ILLINOIS FED. AID PROJECT

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GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 7/8-in. ϕ, holes 15/16-in. ϕ, unless otherwise noted.

2. Calculated weight of Structural Steel = 764,452 lbs. (M270 Grade 50W)

3. All structural steel shall be AASHTO M 270 Grade -50W (except expansion joints which shall be AASHTO M 270 Grade 36).

4. No field welding is permitted except as specified in the contract documents.

5. Reinforcement bars designated (E) shall be epoxy coated.

6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

7. Concrete Sealer shall be applied to the designated areas of the abutments.

8. All structural steel and exposed surfaces of bearings within a distance of 10 ft. each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

9. Concrete for the Drilled Shafts shall be placed in accordance with Articles 516.03 and 516.12 of the Standard Specifications. Cost included in Drilled Shalft in Soil and/or Drilled Shaft in Rock. When drilling shafts, the locations will be specified. Place note with shaft dadta on appropriate substructure sheet.

10. All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

11. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other places or shims and placed as shown on bearing details.

12. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

13. The Contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad.

14. Slipforming of the parapets is not allowed.

15. All demolition within the Railroad's Right-of-Way Shall and/or demolition that may impact the Railroad's tracks or operations shall be in compliance with the Railroad's Demolition Guidelines.

16. Erection over the Railroad's Right-of-Way Shall be done to cause no interruption to the Railroad's traffic, enabling the track(s) to remain open per the Railroad's requirements.

17. Railroad requirements do not allow work within 50 feet of the track centerline when a train passes the work site, and all personnel must clear the area within 25 feet of the track centeline and secure all equipment.

18. All permament clearances shall be verified before the project's closing.

19. When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
1. At least 72 hours shall have elapsed from the end of the previous pour.
2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

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S6 Top of Slab Elevations -3
S7 Top of Slab Elevations - 4
S8 Top of S. Approach Slab Elevations
S9 Top of N. Approach Slab Elevations
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S17 Bridge Fence Railing (Sidewalk)
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S19 Drainage Scuppers DS-12
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S25 Bearing Details
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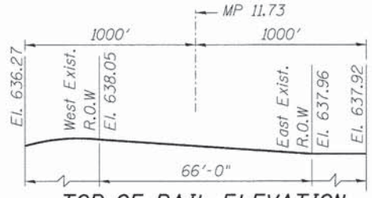
S39 Soil Boring Logs
S40 Soil Boring Logs
S41 Soil Boring Logs
S42 Soil Boring Logs
S43 Soil Boring Logs

TOTAL BILL OF MATERIAL

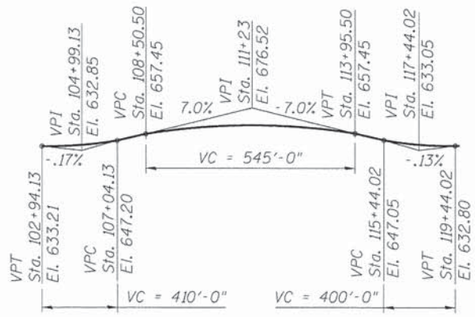
Item	Unit	Super	Sub	Total
Drainage System	L. Sum	1		1
Drainage Scupper, DS-12	Each	10		10
MSE Wall (Abutment)	Sq. Ft.		3362	3362
Remove & Dispose Unsuitable Mat'l.	Cu. Yd.		150	150
Protective Shield	Sq. Yd.	2722		2722
Structure Excavation	Cu. Yd.		369	369
Concrete Structure	Cu. Yd.		667	667
Concrete Superstructure	Cu. Yd.	1166		1166
Bridge Deck Grooving	Sq. Yd.	1993		1993
Protective Coat	Sq. Yd.	3227		3227
Furnishing and Erecting Struct. Steel	L. Sum	1		1
Stud Shear Connectors	Each	9450		9450
Reinf. Bars, Epoxy-Coated (Superstruct.)	Pound	248100		248100
Reinf. Bars, Epoxy-Coated (Substruct.)	Pound		105070	105070
Reinforcement Bars	Pound		89310	89310
Bar Splicers	Each		134	134
Bridge Fence Railing (Sidewalk)	Foot	450		450
Bridge Fence Railing	Foot	450		450
Name Plates	Each		2	2
Drilled Shaft in Soil (Abutments)	Cu. Yd.		149	149
Drilled Shaft in Soil (Piers)	Cu. Yd.		314	314
Preformed Joint Strip Seal	Foot	142		142
Elast. Brg. Assembly, Type I, 15"x 24"	Each		20	20
Elast. Brg. Assembly, Type II, 10"x14"	Each		20	20
Anchor Bolts, 1"	Each		80	80
Concrete Sealer	Sq. Ft.		1366	1366

STATION
BUILT BY
STATE OF ILLINOIS
CREATE GS6, SECTION 3.4.9.10
LOADING HL-93
STRUCTURE NO. 016-6351

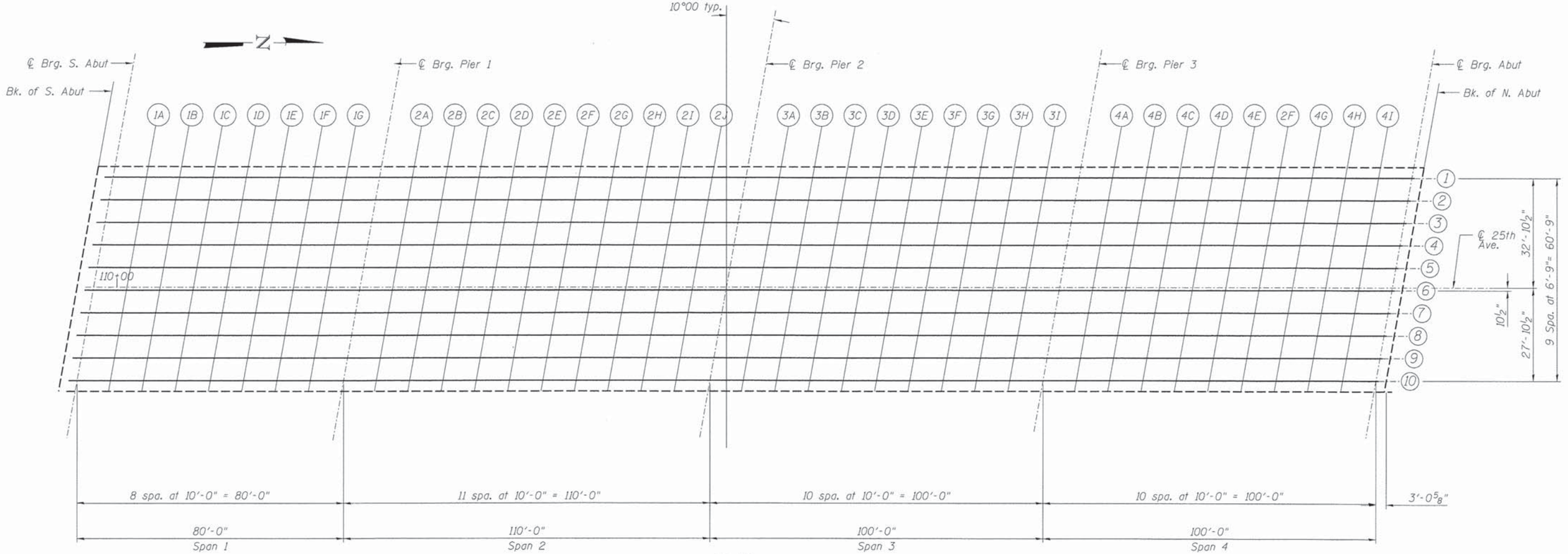
NAME PLATE
See Std. 515001



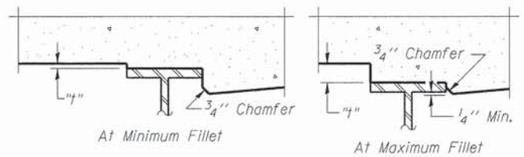
TOP OF RAIL ELEVATION
U.P.R.R.-TRACK #3



25th AVE. PROFILE



PLAN

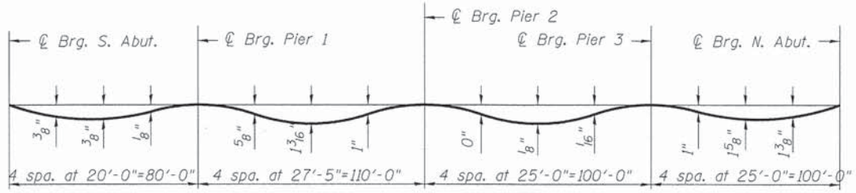


At Minimum Fillet

At Maximum Fillet

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

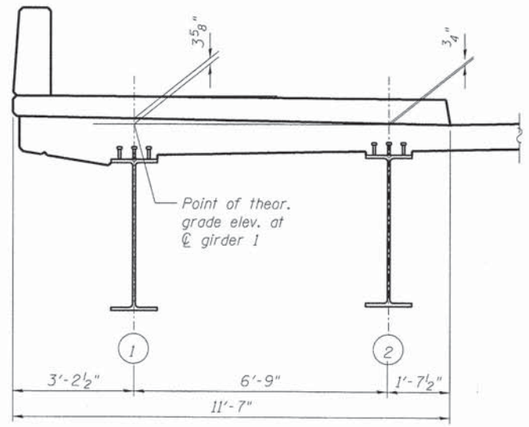
FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



SECTION THRU SIDEWALK

(Looking North)

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS – PLAN
STRUCTURE NO. 016-6351
SHEET NO. 136 OF 240 SHEETS

S3

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	136
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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4:14:58 PM

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+96.966	-32.875	664.430	664.430
℄ S. Abut	110+00.146	-32.875	664.532	664.532
1A	110+10.146	-32.875	664.835	664.850
1B	110+20.146	-32.875	665.112	665.138
1C	110+30.146	-32.875	665.363	665.396
1D	110+40.146	-32.875	665.589	665.615
1E	110+50.146	-32.875	665.789	665.806
1F	110+60.146	-32.875	665.963	665.966
1G	110+70.146	-32.875	666.112	666.110
℄ Brg. Pier 1	110+80.146	-32.875	666.235	666.235
2A	110+90.146	-32.875	666.332	666.348
2B	111+00.146	-32.875	666.403	666.446
2C	111+10.146	-32.875	666.449	666.519
2D	111+20.146	-32.875	666.469	666.560
2E	111+30.146	-32.875	666.464	666.562
2F	111+40.146	-32.875	666.433	666.529
2G	111+50.146	-32.875	666.376	666.468
2H	111+60.146	-32.875	666.293	666.365
2I	111+70.146	-32.875	666.185	666.232
2J	111+80.146	-32.875	666.051	666.070
℄ Brg. Pier 2	111+90.146	-32.875	665.891	665.891
3A	112+00.146	-32.875	665.706	665.701
3B	112+10.146	-32.875	665.495	665.495
3C	112+20.146	-32.875	665.258	665.264
3D	112+30.146	-32.875	664.996	665.006
3E	112+40.146	-32.875	664.708	664.719
3F	112+50.146	-32.875	664.394	664.402
3G	112+60.146	-32.875	664.055	664.055
3H	112+70.146	-32.875	663.689	663.683
3I	112+80.146	-32.875	663.299	663.290
℄ Brg. Pier 3	112+90.146	-32.875	662.882	662.882
4A	113+00.146	-32.875	662.440	662.451
4B	113+10.146	-32.875	661.972	662.029
4C	113+20.146	-32.875	661.478	661.570
4D	113+30.146	-32.875	660.959	661.069
4E	113+40.146	-32.875	660.414	660.553
4F	113+50.146	-32.875	659.844	659.983
4G	113+60.146	-32.875	659.247	659.373
4H	113+70.146	-32.875	658.625	658.720
4I	113+80.146	-32.875	657.977	658.029
℄ Brg. N. Abut	113+90.146	-32.875	657.304	657.304
Bk. of N. Abut.	113+93.326	-32.875	657.085	657.085

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+95.776	-26.125	664.497	664.497
℄ S. Abut	109+98.956	-26.125	664.600	664.600
1A	110+08.956	-26.125	664.905	664.920
1B	110+18.956	-26.125	665.186	665.212
1C	110+28.956	-26.125	665.440	665.473
1D	110+38.956	-26.125	665.669	665.695
1E	110+48.956	-26.125	665.872	665.889
1F	110+58.956	-26.125	666.049	666.052
1G	110+68.956	-26.125	666.201	666.200
℄ Brg. Pier 1	110+78.956	-26.125	666.327	666.327
2A	110+88.956	-26.125	666.427	666.444
2B	110+98.956	-26.125	666.502	666.545
2C	111+08.956	-26.125	666.551	666.621
2D	111+18.956	-26.125	666.574	666.664
2E	111+28.956	-26.125	666.571	666.669
2F	111+38.956	-26.125	666.543	666.640
2G	111+48.956	-26.125	666.489	666.581
2H	111+58.956	-26.125	666.410	666.482
2I	111+68.956	-26.125	666.305	666.352
2J	111+78.956	-26.125	666.174	666.193
℄ Brg. Pier 2	111+88.956	-26.125	666.017	666.017
3A	111+98.956	-26.125	665.835	665.830
3B	112+08.956	-26.125	665.627	665.627
3C	112+18.956	-26.125	665.393	665.399
3D	112+28.956	-26.125	665.134	665.144
3E	112+38.956	-26.125	664.849	664.860
3F	112+48.956	-26.125	664.538	664.546
3G	112+58.956	-26.125	664.202	664.202
3H	112+68.956	-26.125	663.840	663.833
3I	112+78.956	-26.125	663.452	663.443
℄ Brg. Pier 3	112+88.956	-26.125	663.038	663.038
4A	112+98.956	-26.125	662.599	662.611
4B	113+08.956	-26.125	662.134	662.191
4C	113+18.956	-26.125	661.644	661.735
4D	113+28.956	-26.125	661.128	661.238
4E	113+38.956	-26.125	660.586	660.724
4F	113+48.956	-26.125	660.018	660.157
4G	113+58.956	-26.125	659.425	659.551
4H	113+68.956	-26.125	658.806	658.901
4I	113+78.956	-26.125	658.161	658.213
℄ Brg. N. Abut	113+88.956	-26.125	657.491	657.491
Bk. of N. Abut.	113+92.136	-26.125	657.272	657.272

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+94.586	-19.375	664.563	664.563
℄ S. Abut	109+97.766	-19.375	664.667	664.667
1A	110+07.766	-19.375	664.976	664.991
1B	110+17.766	-19.375	665.259	665.286
1C	110+27.766	-19.375	665.516	665.549
1D	110+37.766	-19.375	665.748	665.775
1E	110+47.766	-19.375	665.954	665.971
1F	110+57.766	-19.375	666.135	666.137
1G	110+67.766	-19.375	666.290	666.288
℄ Brg. Pier 1	110+77.766	-19.375	666.419	666.419
2A	110+87.766	-19.375	666.522	666.538
2B	110+97.766	-19.375	666.600	666.642
2C	111+07.766	-19.375	666.652	666.722
2D	111+17.766	-19.375	666.678	666.769
2E	111+27.766	-19.375	666.678	666.776
2F	111+37.766	-19.375	666.653	666.750
2G	111+47.766	-19.375	666.603	666.695
2H	111+57.766	-19.375	666.526	666.598
2I	111+67.766	-19.375	666.424	666.471
2J	111+77.766	-19.375	666.296	666.316
℄ Brg. Pier 2	111+87.766	-19.375	666.143	666.143
3A	111+97.766	-19.375	665.963	665.959
3B	112+07.766	-19.375	665.758	665.759
3C	112+17.766	-19.375	665.528	665.533
3D	112+27.766	-19.375	665.272	665.282
3E	112+37.766	-19.375	664.990	665.001
3F	112+47.766	-19.375	664.682	664.689
3G	112+57.766	-19.375	664.349	664.349
3H	112+67.766	-19.375	663.990	663.983
3I	112+77.766	-19.375	663.605	663.596
℄ Brg. Pier 3	112+87.766	-19.375	663.194	663.194
4A	112+97.766	-19.375	662.758	662.770
4B	113+07.766	-19.375	662.297	662.353
4C	113+17.766	-19.375	661.809	661.901
4D	113+27.766	-19.375	661.296	661.406
4E	113+37.766	-19.375	660.757	660.896
4F	113+47.766	-19.375	660.193	660.332
4G	113+57.766	-19.375	659.602	659.728
4H	113+67.766	-19.375	658.986	659.082
4I	113+77.766	-19.375	658.345	658.396
℄ Brg. N. Abut	113+87.766	-19.375	657.678	657.678
Bk. of N. Abut.	113+90.946	-19.375	657.460	657.460

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+93.396	-12.625	664.629	664.629
℄ S. Abut	109+96.576	-12.625	664.734	664.734
1A	110+06.576	-12.625	665.046	665.061
1B	110+16.576	-12.625	665.332	665.359
1C	110+26.576	-12.625	665.593	665.625
1D	110+36.576	-12.625	665.827	665.854
1E	110+46.576	-12.625	666.037	666.054
1F	110+56.576	-12.625	666.220	666.223
1G	110+66.576	-12.625	666.378	666.377
℄ Brg. Pier 1	110+76.576	-12.625	666.510	666.510
2A	110+86.576	-12.625	666.616	666.633
2B	110+96.576	-12.625	666.697	666.740
2C	111+06.576	-12.625	666.752	666.822
2D	111+16.576	-12.625	666.782	666.872
2E	111+26.576	-12.625	666.785	666.883
2F	111+36.576	-12.625	666.763	666.860
2G	111+46.576	-12.625	666.715	666.807
2H	111+56.576	-12.625	666.642	666.714
2I	111+66.576	-12.625	666.543	666.590
2J	111+76.576	-12.625	666.418	666.438
℄ Brg. Pier 2	111+86.576	-12.625	666.268	666.268
3A	111+96.576	-12.625	666.092	666.087
3B	112+06.576	-12.625	665.890	665.890
3C	112+16.576	-12.625	665.662	665.667
3D	112+26.576	-12.625	665.409	665.419
3E	112+36.576	-12.625	665.130	665.141
3F	112+46.576	-12.625	664.825	664.833
3G	112+56.576	-12.625	664.495	664.496
3H	112+66.576	-12.625	664.139	664.133
3I	112+76.576	-12.625	663.758	663.749
℄ Brg. Pier 3	11286.576	-12.625	663.350	663.350
4A	11296.576	-12.625	662.917	662.929
4B	11306.576	-12.625	662.458	662.515
4C	11316.576	-12.625	661.974	662.065
4D	11326.576	-12.625	661.464	661.574
4E	11336.576	-12.625	660.928	661.066
4F	11346.576	-12.625	660.367	660.506
4G	11356.576	-12.625	659.779	659.905
4H	11366.576	-12.625	659.167	659.262
4I	11376.576	-12.625	658.528	658.579
℄ Brg. N. Abut	11386.576	-12.625	657.864	657.864
Bk. of N. Abut.	11389.756	-12.625	657.647	657.647

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+92.206	-5.875	664.695	664.695
℄ S. Abut	109+95.386	-5.875	664.801	664.801
1A	110+05.386	-5.875	665.116	665.131
1B	110+15.386	-5.875	665.405	665.432
1C	110+25.386	-5.875	665.668	665.701
1D	110+35.386	-5.875	665.906	665.933
1E	110+45.386	-5.875	666.119	666.135
1F	110+55.386	-5.875	666.305	666.308
1G	110+65.386	-5.875	666.466	666.465
℄ Brg. Pier 1	110+75.386	-5.875	666.601	666.601
2A	110+85.386	-5.875	666.711	666.727
2B	110+95.386	-5.875	666.794	666.837
2C	111+05.386	-5.875	666.852	666.923
2D	111+15.386	-5.875	666.885	666.976
2E	111+25.386	-5.875	666.892	666.989
2F	111+35.386	-5.875	666.873	666.969
2G	111+45.386	-5.875	666.828	666.920
2H	111+55.386	-5.875	666.758	666.830
2I	111+65.386	-5.875	666.662	666.709
2J	111+75.386	-5.875	666.540	666.559
℄ Brg. Pier 2	111+85.386	-5.875	666.392	666.392
3A	111+95.386	-5.875	666.219	666.215
3B	112+05.386	-5.875	666.021	666.021
3C	112+15.386	-5.875	665.796	665.801
3D	112+25.386	-5.875	665.546	665.556
3E	112+35.386	-5.875	665.270	665.281
3F	112+45.386	-5.875	664.968	664.976
3G	112+55.386	-5.875	664.641	664.642
3H	112+65.386	-5.875	664.288	664.282
3I	112+75.386	-5.875	663.910	663.901
℄ Brg. Pier 3	112+85.386	-5.875	663.505	663.505
4A	112+95.386	-5.875	663.075	663.087
4B	113+05.386	-5.875	662.620	662.676
4C	113+15.386	-5.875	662.138	662.230
4D	113+25.386	-5.875	661.631	661.741
4E	113+35.386	-5.875	661.099	661.237
4F	113+45.386	-5.875	660.540	660.679
4G	113+55.386	-5.875	659.956	660.082
4H	113+65.386	-5.875	659.346	659.441
4I	113+75.386	-5.875	658.711	658.762
℄ Brg. N. Abut	113+85.386	-5.875	658.050	658.050
Bk. of N. Abut.	113+88.566	-5.875	657.834	657.834

PGL & ℄ 25th Ave.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+91.170	0.000	664.752	664.752
℄ S. Abut	109+94.350	0.000	664.858	664.858
1A	110+04.350	0.000	665.176	665.191
1B	110+14.350	0.000	665.468	665.495
1C	110+24.350	0.000	665.734	665.767
1D	110+34.350	0.000	665.975	666.001
1E	110+44.350	0.000	666.190	666.207
1F	110+54.350	0.000	666.379	666.381
1G	110+64.350	0.000	666.542	666.541
℄ Brg. Pier 1	110+74.350	0.000	666.680	666.680
2A	110+84.350	0.000	666.792	666.809
2B	110+94.350	0.000	666.879	666.922
2C	111+04.350	0.000	666.939	667.010
2D	111+14.350	0.000	666.974	667.065
2E	111+24.350	0.000	666.984	667.082
2F	111+34.350	0.000	666.968	667.064
2G	111+44.350	0.000	666.926	667.017
2H	111+54.350	0.000	666.858	666.930
2I	111+64.350	0.000	666.764	666.812
2J	111+74.350	0.000	666.645	666.665
℄ Brg. Pier 2	111+84.350	0.000	666.501	666.501
3A	111+94.350	0.000	666.330	666.326
3B	112+04.350	0.000	666.134	666.134
3C	112+14.350	0.000	665.912	665.918
3D	112+24.350	0.000	665.665	665.675
3E	112+34.350	0.000	665.392	665.403
3F	112+44.350	0.000	665.093	665.100
3G	112+54.350	0.000	664.768	664.769
3H	112+64.350	0.000	664.418	664.411
3I	112+74.350	0.000	664.042	664.033
℄ Brg. Pier 3	112+84.350	0.000	663.640	663.640
4A	112+94.350	0.000	663.213	663.224
4B	113+04.350	0.000	662.760	662.817
4C	113+14.350	0.000	662.281	662.373
4D	113+24.350	0.000	661.777	661.887
4E	113+34.350	0.000	661.247	661.385
4F	113+44.350	0.000	660.691	660.830
4G	113+54.350	0.000	660.110	660.236
4H	113+64.350	0.000	659.502	659.598
4I	113+74.350	0.000	658.870	658.921
℄ Brg. N. Abut	113+84.350	0.000	658.211	658.211
Bk. of N. Abut.	113+87.530	0.000	657.996	657.996

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+91.016	0.875	664.733	664.733
℄ S. Abut	109+94.196	0.875	664.840	664.840
1A	110+04.196	0.875	665.158	665.173
1B	110+14.196	0.875	665.450	665.477
1C	110+24.196	0.875	665.717	665.749
1D	110+34.196	0.875	665.958	665.984
1E	110+44.196	0.875	666.173	666.190
1F	110+54.196	0.875	666.362	666.365
1G	110+64.196	0.875	666.526	666.525
℄ Brg. Pier 1	110+74.196	0.875	666.665	666.665
2A	110+84.196	0.875	666.777	666.794
2B	110+94.196	0.875	666.864	666.907
2C	111+04.196	0.875	666.925	666.995
2D	111+14.196	0.875	666.960	667.051
2E	111+24.196	0.875	666.970	667.068
2F	111+34.196	0.875	666.954	667.051
2G	111+44.196	0.875	666.913	667.005
2H	111+54.196	0.875	666.845	666.917
2I	111+64.196	0.875	666.752	666.800
2J	111+74.196	0.875	666.634	666.653
℄ Brg. Pier 2	111+84.196	0.875	666.489	666.489
3A	111+94.196	0.875	666.319	666.315
3B	112+04.196	0.875	666.124	666.124
3C	112+14.196	0.875	665.902	665.907
3D	112+24.196	0.875	665.655	665.666
3E	112+34.196	0.875	665.382	665.394
3F	112+44.196	0.875	665.084	665.091
3G	112+54.196	0.875	664.760	664.760
3H	112+64.196	0.875	664.410	664.403
3I	112+74.196	0.875	664.034	664.026
℄ Brg. Pier 3	112+84.196	0.875	663.633	663.633
4A	112+94.196	0.875	663.206	663.218
4B	113+04.196	0.875	662.753	662.810
4C	113+14.196	0.875	662.275	662.367
4D	113+24.196	0.875	661.771	661.881
4E	113+34.196	0.875	661.242	661.380
4F	113+44.196	0.875	660.686	660.825
4G	113+54.196	0.875	660.105	660.231
4H	113+64.196	0.875	659.498	659.594
4I	113+74.196	0.875	658.866	658.917
℄ Brg. N. Abut	113+84.196	0.875	658.208	658.208
Bk. of N. Abut.	113+87.376	0.875	657.993	657.993

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+89.826	7.625	664.587	664.587
℄ S. Abut	109+93.006	7.625	664.695	664.695
1A	110+03.006	7.625	665.016	665.031
1B	110+13.006	7.625	665.311	665.338
1C	110+23.006	7.625	665.581	665.613
1D	110+33.006	7.625	665.825	665.851
1E	110+43.006	7.625	666.043	666.060
1F	110+53.006	7.625	666.236	666.238
1G	110+63.006	7.625	666.403	666.401
℄ Brg. Pier 1	110+73.006	7.625	666.544	666.544
2A	110+83.006	7.625	666.660	666.676
2B	110+93.006	7.625	666.749	666.792
2C	111+03.006	7.625	666.814	666.884
2D	111+13.006	7.625	666.852	666.943
2E	111+23.006	7.625	666.865	666.963
2F	111+33.006	7.625	666.852	666.949
2G	111+43.006	7.625	666.814	666.905
2H	111+53.006	7.625	666.749	666.821
2I	111+63.006	7.625	666.659	666.707
2J	111+73.006	7.625	666.544	666.563
℄ Brg. Pier 2	111+83.006	7.625	666.402	666.402
3A	111+93.006	7.625	666.235	666.231
3B	112+03.006	7.625	666.043	666.043
3C	112+13.006	7.625	665.824	665.830
3D	112+23.006	7.625	665.580	665.591
3E	112+33.006	7.625	665.311	665.322
3F	112+43.006	7.625	665.015	665.023
3G	112+53.006	7.625	664.694	664.695
3H	112+63.006	7.625	664.347	664.341
3I	112+73.006	7.625	663.975	663.966
℄ Brg. Pier 3	112+83.006	7.625	663.577	663.577
4A	112+93.006	7.625	663.153	663.164
4B	113+03.006	7.625	662.703	662.760
4C	113+13.006	7.625	662.228	662.319
4D	113+23.006	7.625	661.727	661.837
4E	113+33.006	7.625	661.200	661.339
4F	113+43.006	7.625	660.648	660.787
4G	113+53.006	7.625	660.070	660.196
4H	113+63.006	7.625	659.466	659.562
4I	113+73.006	7.625	658.837	658.888
℄ Brg. N. Abut	113+83.006	7.625	658.182	658.182
Bk. of N. Abut.	113+86.186	7.625	657.968	657.968

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+88.636	14.375	664.441	664.441
℄ S. Abut	109+91.816	14.375	664.549	664.549
1A	110+01.816	14.375	664.873	664.888
1B	110+11.816	14.375	665.172	665.198
1C	110+21.816	14.375	665.444	665.477
1D	110+31.816	14.375	665.692	665.718
1E	110+41.816	14.375	665.913	665.930
1F	110+51.816	14.375	666.109	666.111
1G	110+61.816	14.375	666.279	666.278
℄ Brg. Pier 1	110+71.816	14.375	666.423	666.423
2A	110+81.816	14.375	666.542	666.558
2B	110+91.816	14.375	666.635	666.678
2C	111+01.816	14.375	666.702	666.772
2D	111+11.816	14.375	666.743	666.834
2E	111+21.816	14.375	666.759	666.857
2F	111+31.816	14.375	666.750	666.846
2G	111+41.816	14.375	666.714	666.806
2H	111+51.816	14.375	666.653	666.725
2I	111+61.816	14.375	666.566	666.613
2J	111+71.816	14.375	666.453	666.473
℄ Brg. Pier 2	11181.816	14.375	666.315	666.315
3A	11191.816	14.375	666.151	666.147
3B	11201.816	14.375	665.962	665.962
3C	11211.816	14.375	665.746	665.752
3D	11221.816	14.375	665.505	665.516
3E	11231.816	14.375	665.239	665.250
3F	11241.816	14.375	664.946	664.954
3G	11251.816	14.375	664.628	664.629
3H	11261.816	14.375	664.284	664.278
3I	11271.816	14.375	663.915	663.906
℄ Brg. Pier 3	11281.816	14.375	663.520	663.520
4A	11291.816	14.375	663.099	663.111
4B	11301.816	14.375	662.653	662.709
4C	11311.816	14.375	662.180	662.272
4D	11321.816	14.375	661.683	661.792
4E	11331.816	14.375	661.159	661.297
4F	11341.816	14.375	660.610	660.749
4G	11351.816	14.375	660.035	660.161
4H	11361.816	14.375	659.434	659.529
4I	11371.816	14.375	658.808	658.859
℄ Brg. N. Abut	11381.816	14.375	658.156	658.156
Bk. of N. Abut.	11384.996	14.375	657.943	657.943

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+87.446	21.125	664.294	664.294
℄ S. Abut	109+90.626	21.125	664.403	664.403
1A	110+00.626	21.125	664.731	664.746
1B	110+10.626	21.125	665.032	665.059
1C	110+20.626	21.125	665.308	665.341
1D	110+30.626	21.125	665.558	665.585
1E	110+40.626	21.125	665.782	665.799
1F	110+50.626	21.125	665.981	665.984
1G	110+60.626	21.125	666.154	666.153
℄ Brg. Pier 1	110+70.626	21.125	666.302	666.302
2A	110+80.626	21.125	666.423	666.440
2B	110+90.626	21.125	666.519	666.562
2C	111+00.626	21.125	666.590	666.660
2D	111+10.626	21.125	666.634	666.725
2E	111+20.626	21.125	666.653	666.751
2F	111+30.626	21.125	666.647	666.743
2G	111+40.626	21.125	666.614	666.706
2H	111+50.626	21.125	666.556	666.628
2I	111+60.626	21.125	666.472	666.519
2J	111+70.626	21.125	666.363	666.382
℄ Brg. Pier 2	111+80.626	21.125	666.228	666.228
3A	111+90.626	21.125	666.067	666.011
3B	112+00.626	21.125	665.880	665.883
3C	112+10.626	21.125	665.668	665.731
3D	112+20.626	21.125	665.430	665.555
3E	112+30.626	21.125	665.166	665.303
3F	112+40.626	21.125	664.877	664.967
3G	112+50.626	21.125	664.562	664.567
3H	112+60.626	21.125	664.221	664.144
3I	112+70.626	21.125	663.855	663.752
℄ Brg. Pier 3	112+80.626	21.125	663.463	663.463
4A	112+90.626	21.125	663.045	663.183
4B	113+00.626	21.125	662.602	663.281
4C	113+10.626	21.125	662.132	663.229
4D	113+20.626	21.125	661.638	662.956
4E	113+30.626	21.125	661.117	662.778
4F	113+40.626	21.125	660.571	662.239
4G	113+50.626	21.125	659.999	661.510
4H	113+60.626	21.125	659.402	660.544
4I	113+70.626	21.125	658.778	659.395
℄ Brg. N. Abut	113+80.626	21.125	658.129	658.129
Bk. of N. Abut.	113+83.806	21.125	657.918	657.918

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	109+86.256	27.875	664.147	664.147
℄ S. Abut	109+89.436	27.875	664.257	664.257
1A	109+99.436	27.875	664.588	664.603
1B	110+09.436	27.875	664.892	664.919
1C	110+19.436	27.875	665.171	665.204
1D	110+29.436	27.875	665.424	665.451
1E	110+39.436	27.875	665.652	665.669
1F	110+49.436	27.875	665.853	665.856
1G	110+59.436	27.875	666.030	666.028
℄ Brg. Pier 1	110+69.436	27.875	666.180	666.180
2A	110+79.436	27.875	666.305	666.321
2B	110+89.436	27.875	666.404	666.447
2C	110+99.436	27.875	666.477	666.547
2D	111+09.436	27.875	666.525	666.616
2E	111+19.436	27.875	666.547	666.645
2F	111+29.436	27.875	666.543	666.640
2G	111+39.436	27.875	666.514	666.606
2H	111+49.436	27.875	666.459	666.531
2I	111+59.436	27.875	666.378	666.425
2J	111+69.436	27.875	666.272	666.291
℄ Brg. Pier 2	111+79.436	27.875	666.139	666.139
3A	111+89.436	27.875	665.982	665.977
3B	111+99.436	27.875	665.798	665.798
3C	112+09.436	27.875	665.589	665.594
3D	112+19.436	27.875	665.354	665.364
3E	112+29.436	27.875	665.094	665.105
3F	112+39.436	27.875	664.807	664.815
3G	112+49.436	27.875	664.495	664.496
3H	112+59.436	27.875	664.158	664.151
3I	112+69.436	27.875	663.794	663.786
℄ Brg. Pier 3	112+79.436	27.875	663.405	663.405
4A	112+89.436	27.875	662.991	663.002
4B	112+99.436	27.875	662.550	662.607
4C	113+09.436	27.875	662.084	662.176
4D	113+19.436	27.875	661.592	661.702
4E	113+29.436	27.875	661.075	661.213
4F	113+39.436	27.875	660.532	660.671
4G	113+49.436	27.875	659.963	660.089
4H	113+59.436	27.875	659.369	659.464
4I	113+69.436	27.875	658.748	658.800
℄ Brg. N. Abut	113+79.436	27.875	658.102	658.102
Bk. of N. Abut.	113+82.616	27.875	657.892	657.892

WEST CURB LINE

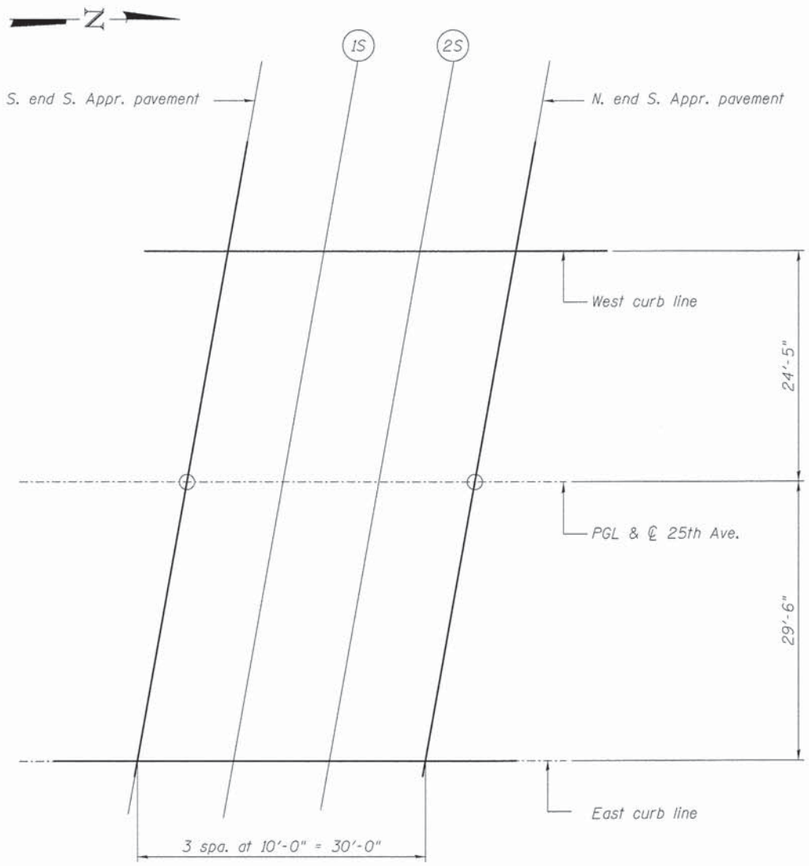
Location	Station	Offset	Theoretical Grade Elevations
S. end S. Appr. pavement	109+56.81	-24.5	663.06
1S	109+66.81	-24.5	666.47
2S	109+76.81	-24.5	663.86
N. end S. Appr. pavement	109+86.81	-24.5	664.22

PGL & ℄ 25th AVE.

Location	Station	Offset	Theoretical Grade Elevations
S. end S. Appr. pavement	109+61.17	0.0	663.62
1S	109+71.17	0.0	664.02
2S	109+81.17	0.0	664.40
N. end S. Appr. pavement	109+91.17	0.0	664.75

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. end S. Appr. pavement	109+66.43	29.5	664.30
1S	109+76.43	29.5	664.69
2S	109+86.43	29.5	665.05
N. end S. Appr. pavement	109+96.43	29.5	665.39



SOUTH APPROACH

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS – SOUTH APPROACH
STRUCTURE NO. 016-6351
SHEET NO. 141 OF 240 SHEETS

S8

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	141
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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WEST CURB LINE

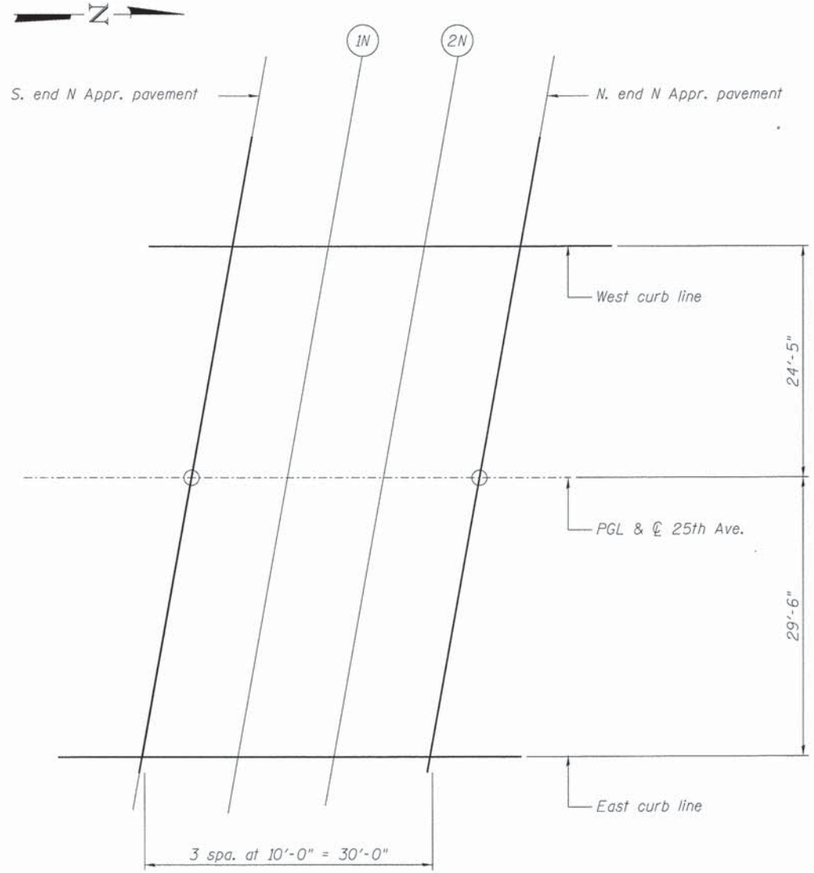
Location	Station	Offset	Theoretical Grade Elevations
S. end N. Appr. pavement	113+83.17	-24.5	657.91
1N	113+93.17	-24.5	657.23
2N	114+03.17	-24.5	656.53
N. end N. Appr. pavement	114+13.17	-24.5	655.83

PGL & ℄ 25th AVE.

Location	Station	Offset	Theoretical Grade Elevations
S. end N. Appr. pavement	113+87.53	0.0	658.00
1N	113+97.53	0.0	657.30
2N	114+07.53	0.0	656.60
N. end N. Appr. pavement	114+17.53	0.0	655.90

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. end N. Appr. pavement	113+92.79	29.5	658.10
1N	114+02.79	29.5	657.40
2N	114+12.79	29.5	656.70
N. end N. Appr. pavement	114+22.79	29.5	656.00



NORTH APPROACH

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS – NORTH APPROACH
STRUCTURE NO. 016-6351
SHEET NO. 142 OF 240 SHEETS

S9

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	142
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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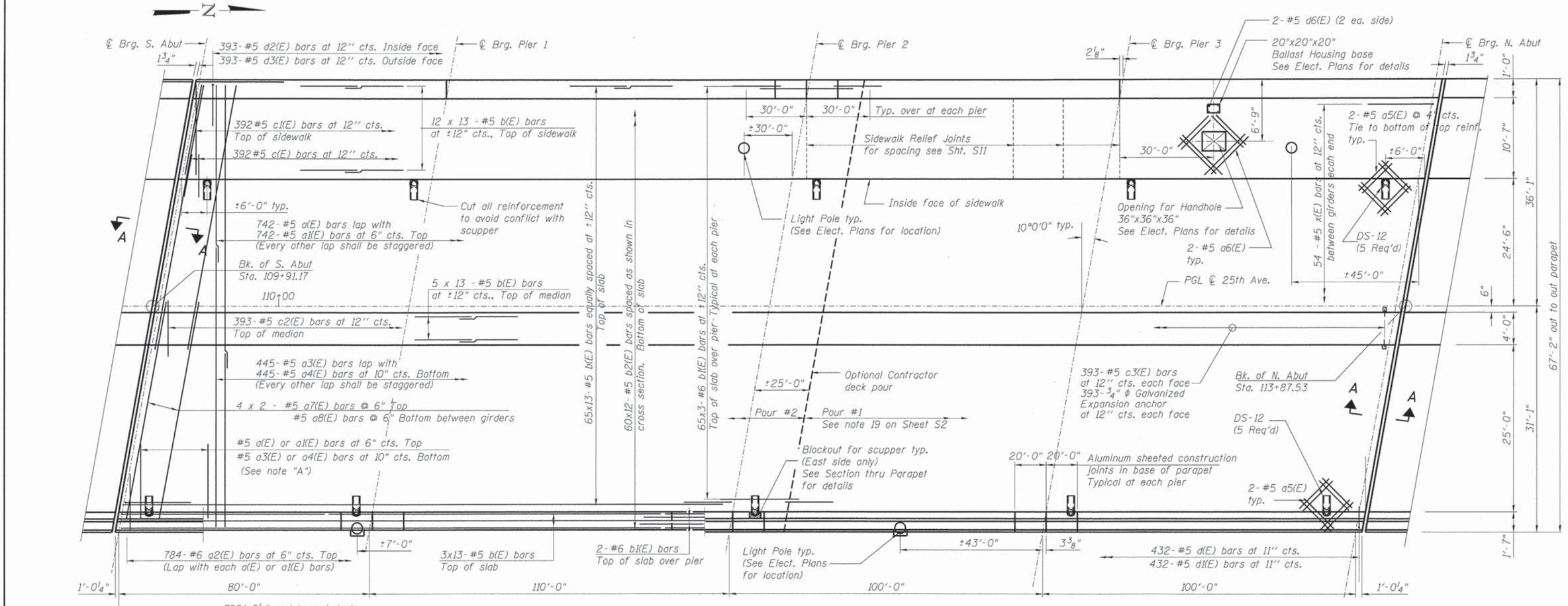
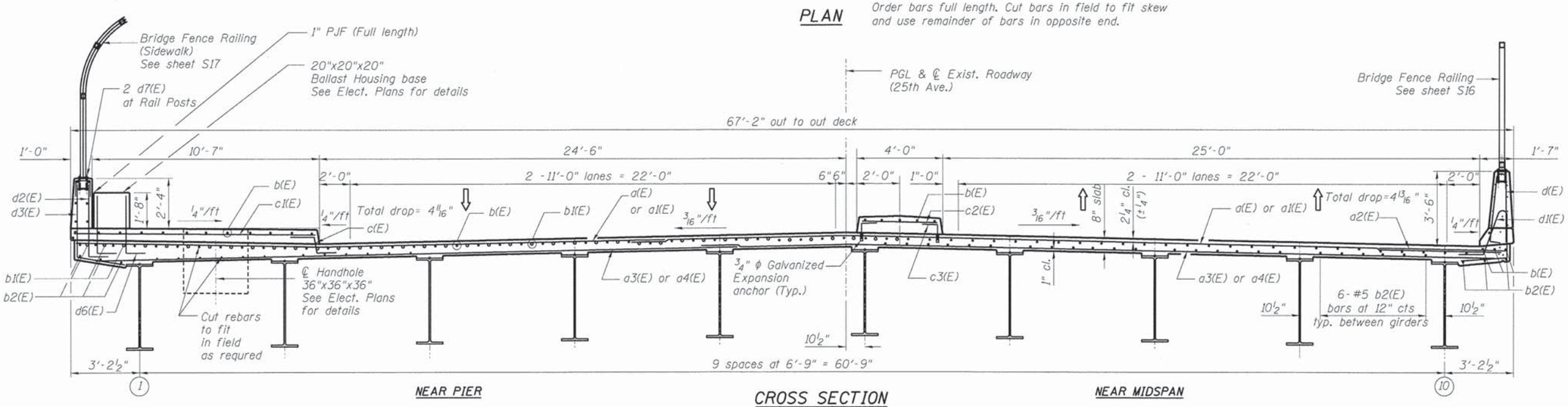


PLAN

Note "A"
Order bars full length. Cut bars in field to fit skew and use remainder of bars in opposite end.



NEAR PIER — NEAR MIDSPAN

CROSS SECTION
(Looking north)

MINIMUM BAR LAPS

#4 bar=2'-10"
#5 bar=3'-5"
#6 bar=4'-0"

Notes:
1. See Sheet S2 for superstructure details and Bill of Material.
2. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
3. See Sheet S11 for parapet reinforcement.
4. For Light pole anchor details See Sheet S12.
5. For Section A-A see Sheet S13.
6. 3/4" ϕ Galvanized Expansion anchor is included in the cost of reinf. bars, Epoxy Coated.

S10

Globetrotters® Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE – DECK PLAN
STRUCTURE NO. 016-6351
SHEET NO. 143 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	143
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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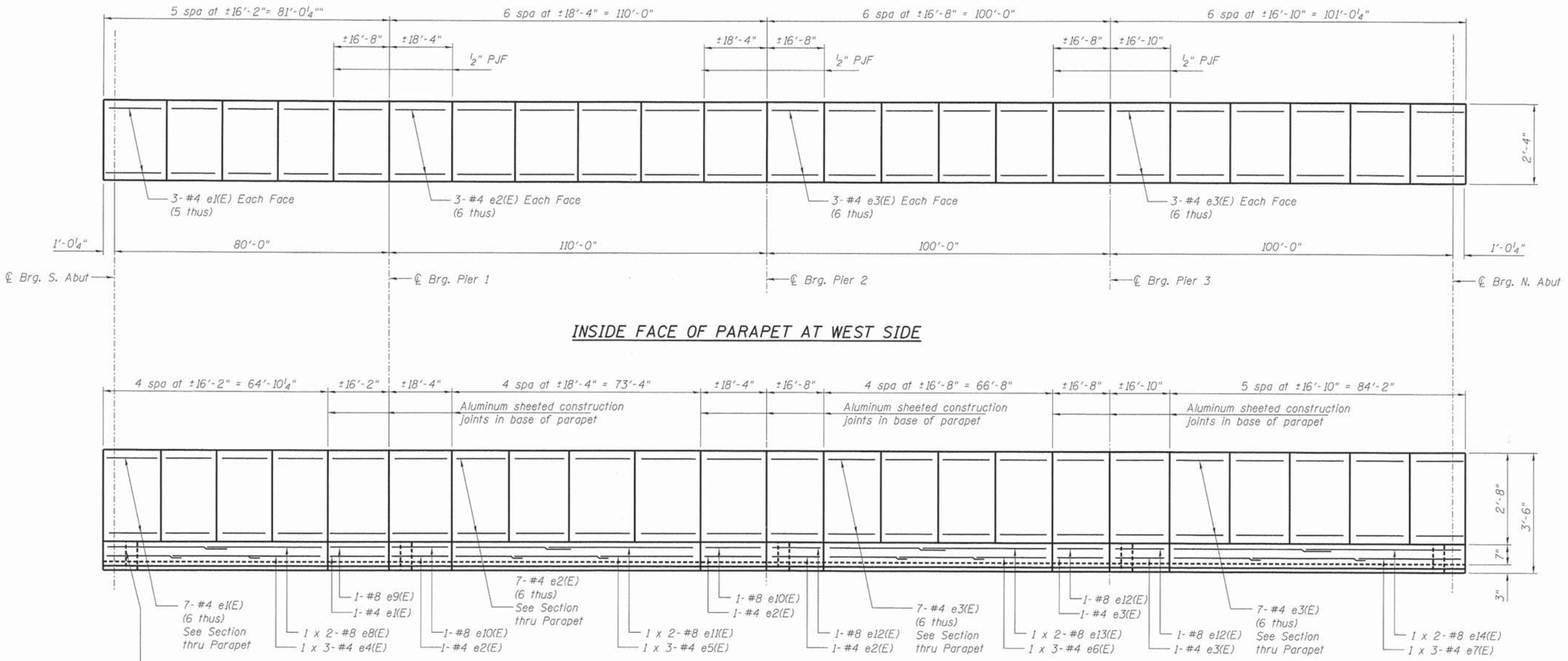
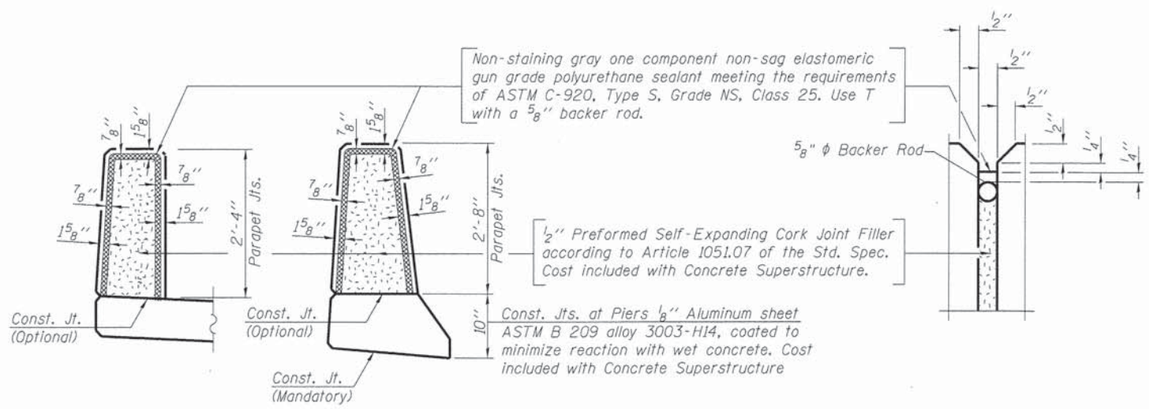


INSIDE FACE OF PARAPET AT WEST SIDE

OUTSIDE FACE OF PARAPET AT EAST SIDE

MINIMUM BAR LAPS

For parapet
#4 = 2'-10"
#8 = 5'-2"



PARAPET JOINT DETAILS

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS – 1
		CHECKED - JG	REVISED		STRUCTURE NO. 016-6351
	PLOT SCALE = None	DRAWN - RJ	REVISED		SHEET NO. 144 OF 240 SHEETS
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	144
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

S11

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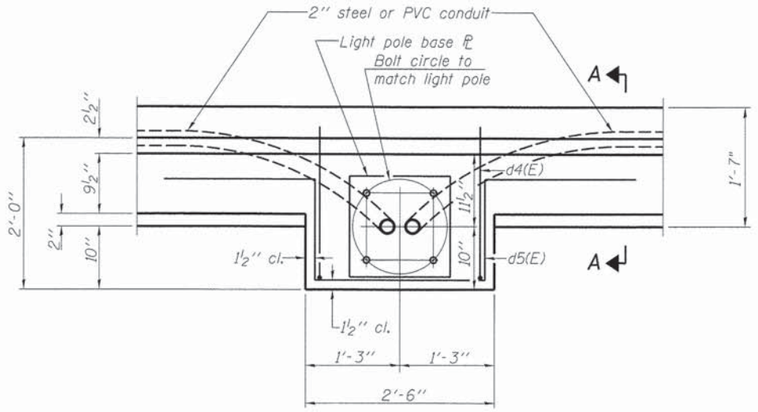
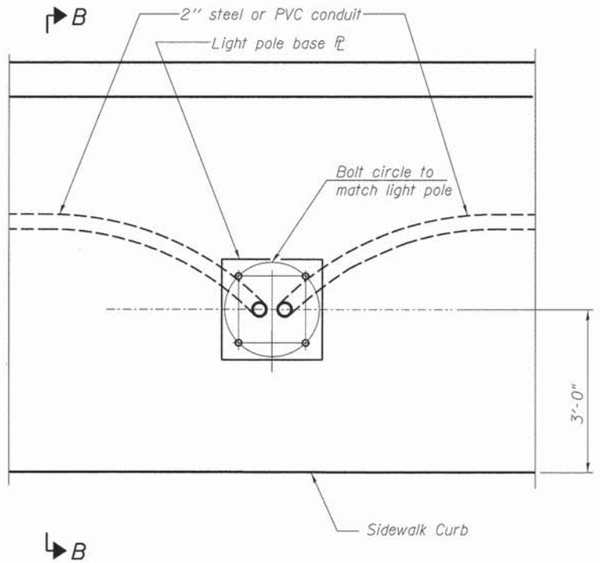
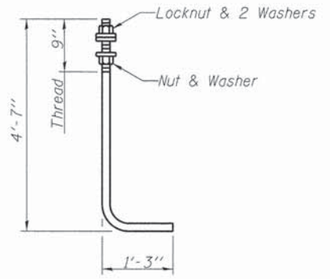


PLAN
LIGHT POLE AT PARAPET

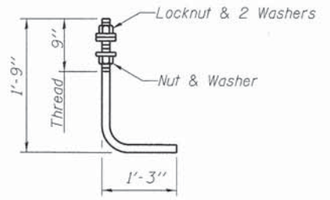
Note:
Cost of anchor rods and conduit is included with Concrete Superstructure.



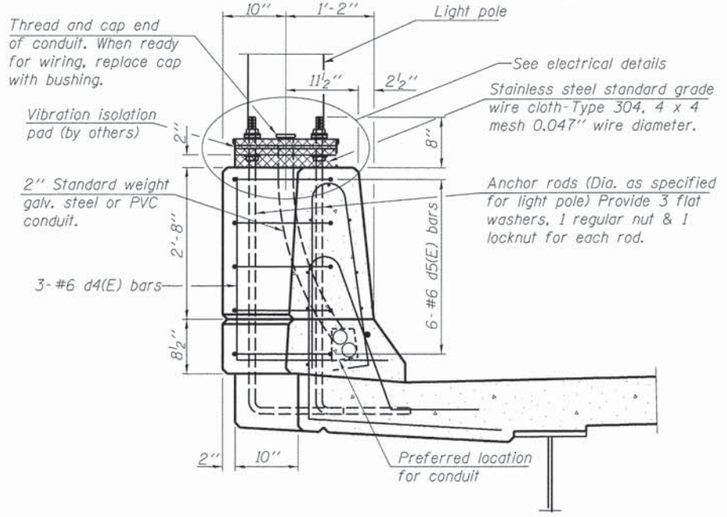
PLAN
LIGHT POLE AT SIDEWALK



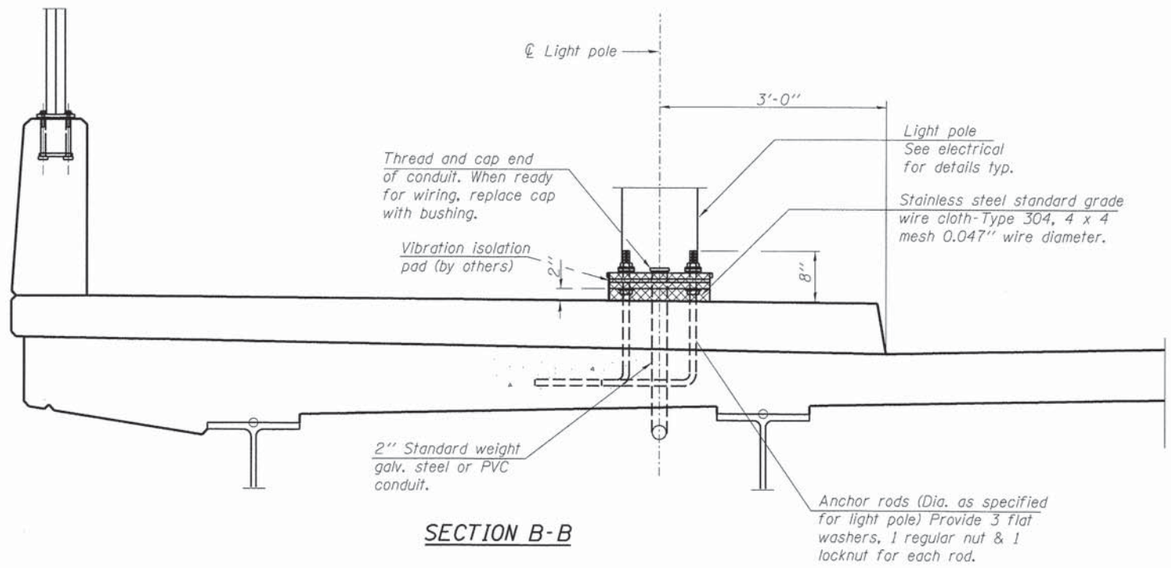
ANCHOR ROD - PARAPET
Diameter as specified for light poles.
(ASTM F 1554 Grade 105)



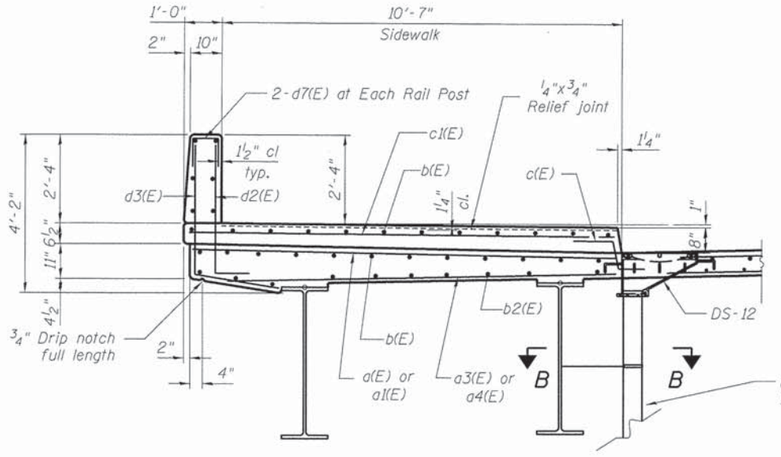
ANCHOR ROD - SIDEWALK
Diameter as specified for light poles.
(ASTM F 1554 Grade 105)



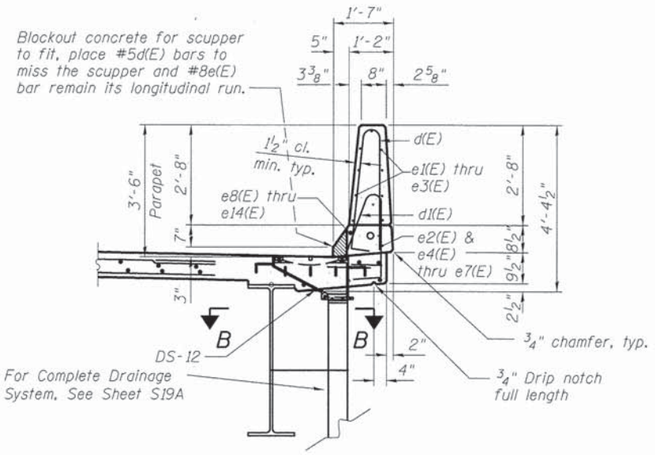
SECTION A-A



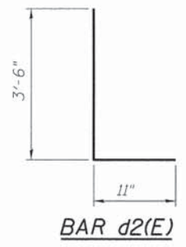
SECTION B-B



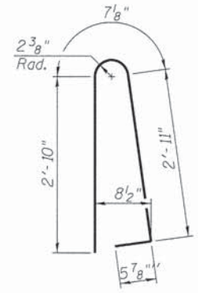
SECTION THRU SIDEWALK (WEST SIDE)



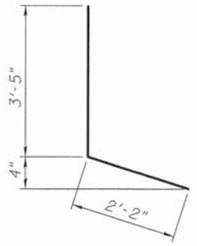
SECTION THRU PARAPET (EAST SIDE)



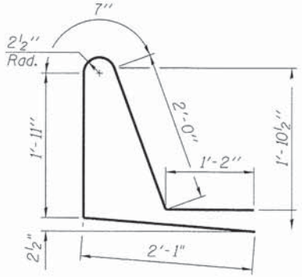
BAR d2(E)



BAR d(E)



BAR d3(E)



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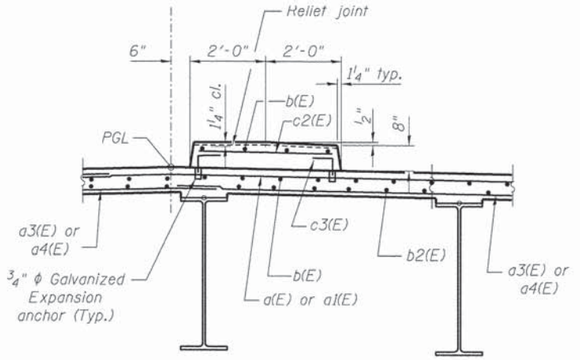
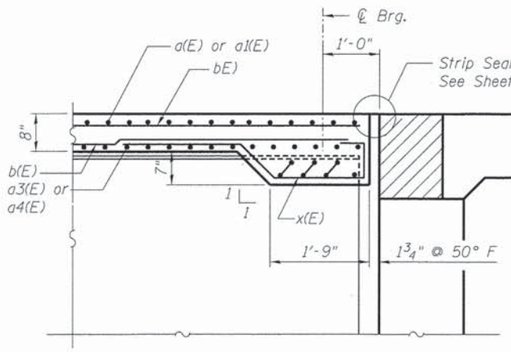
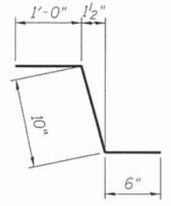


SECTION THRU MEDIAN



SECTION A-A



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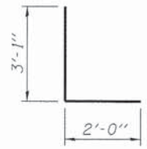

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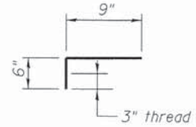

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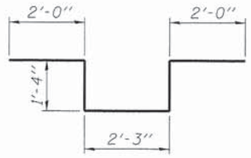

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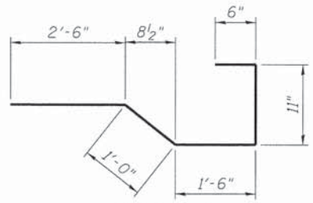
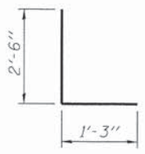


BAR X (E)



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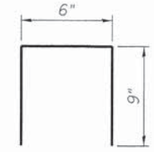

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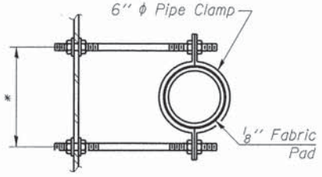
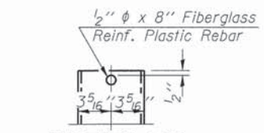
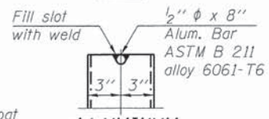


SECTION B-B

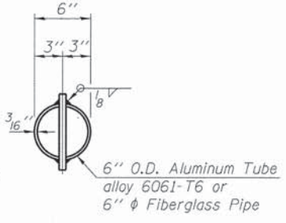
*Dimension as required by Pipe Clamp



FIBERGLASS PIPE



ALUMINUM TUBE



TOP PLAN

(Showing Aluminum Tube)

Notes:

The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting.

Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	760	#5	28'-9"	
a1(E)	760	#5	41'-3"	
a2(E)	784	#5	6'-6"	
a3(E)	445	#5	31'-2"	
a4(E)	445	#5	37'-9"	
a5(E)	80	#5	2'-0"	
a6(E)	8	#5	5'-0"	
a7(E)	16	#5	31'-2"	
a8(E)	54	#5	5'-4"	
b(E)	1105	#5	32'-2"	
b1(E)	591	#6	31'-1"	
b2(E)	720	#5	32'-2"	
c(E)	393	#5	2-4"	
c1(E)	393	#5	11'-3"	
c2(E)	393	#5	3'-8"	
c3(E)	786	#5	1'-3"	
d(E)	432	#5	6'-10"	
d1(E)	432	#5	7'-9"	
d2(E)	393	#5	4'-5"	
d3(E)	393	#5	5'-7"	
d4(E)	6	#6	5'-1"	
d5(E)	10	#6	8-11"	
d6(E)	4	#5	3'-9"	
d7(E)	150	#4	2'-0"	
e1(E)	66	#4	15'-10"	
e2(E)	79	#4	18'-0"	
e3(E)	159	#4	16'-4"	
e4(E)	3	#4	28'-3"	
e5(E)	3	#4	25'-9"	
e6(E)	3	#4	23'-6"	
e7(E)	3	#4	29'-4"	
e8(E)	2	#8	40'-3"	
e9(E)	1	#8	15'-10"	
e10(E)	2	#8	18'-0"	
e11(E)	2	#8	41'-11"	
e12(E)	3	#8	16'-4"	
e13(E)	2	#8	35'-8"	
e14(E)	2	#8	44'-1"	
x(E)	393	#5	5'-7"	
Reinforcement Bars, Epoxy Coated			Pound	191,600
Concrete Superstructure			Cu. Yds.	920
Bridge Deck Grooving			Sq. Yd.	1993
Protective Coat			Sq. Yd.	3227

Bars indicated thus 2 x 3 - #5 etc. indicates 2 line of bars with 3 lengths per line.

For Section A-A see Sheet S10.

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS – 3
STRUCTURE NO. 16-6351
SHEET NO. 146 OF 240 SHEETS

S13

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	146
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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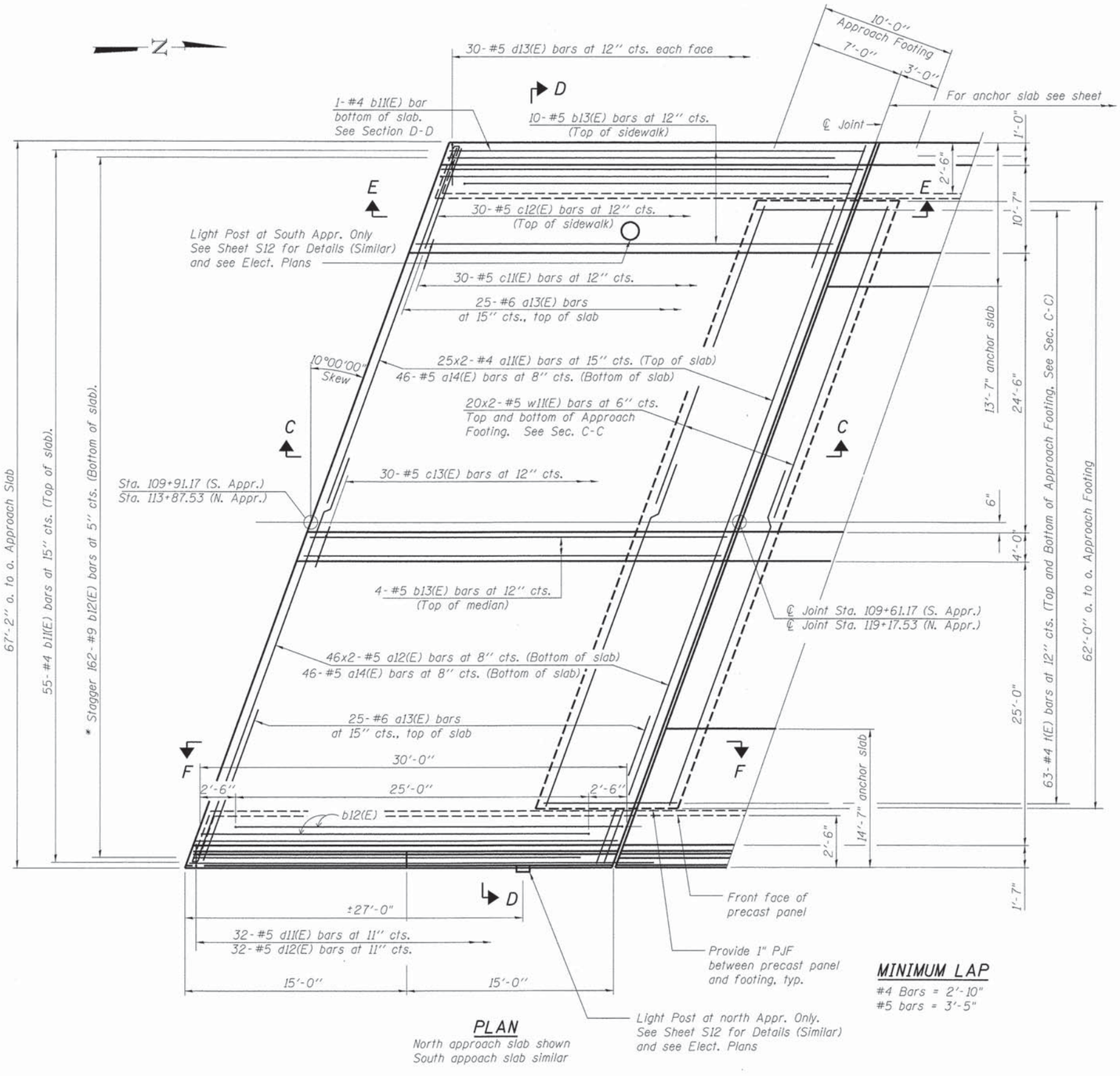
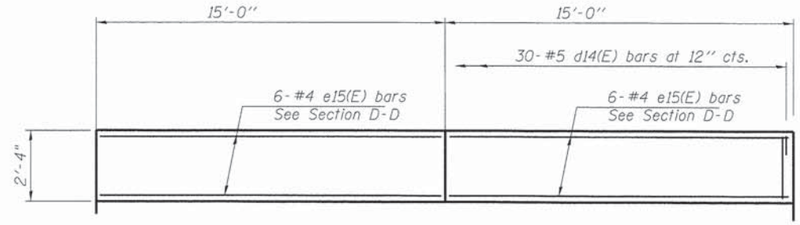


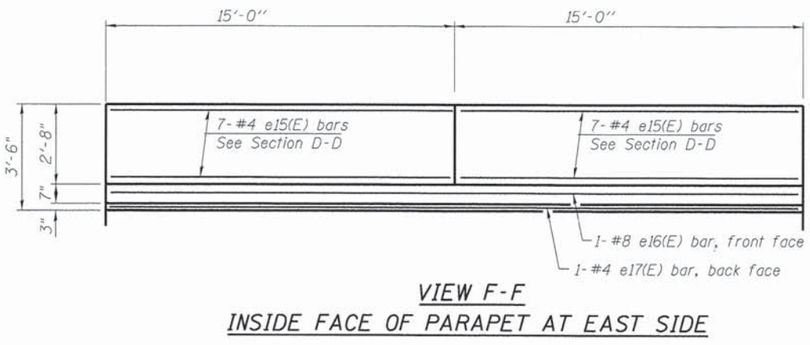
PLAN

North approach slab shown
South appoach slab similar

* Tilt #9 b1(E) bars as required to maintain clearance.



VIEW E-E
INSIDE FACE OF PARAPET AT WEST SIDE



VIEW F-F
INSIDE FACE OF PARAPET AT EAST SIDE

MINIMUM LAP

#4 Bars = 2'-10"
#5 bars = 3'-5"

Notes:
See sheet S15 for Sections C-C & D-D.

Bars indicated thus 46 x 2-#5 etc. indicates 46 lines of bars with 2 lengths per line.

See Sheet S15 for Bill of Material.

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB PLAN
STRUCTURE NO. 016-6351
SHEET NO. 147 OF 240 SHEETS

S14

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	147
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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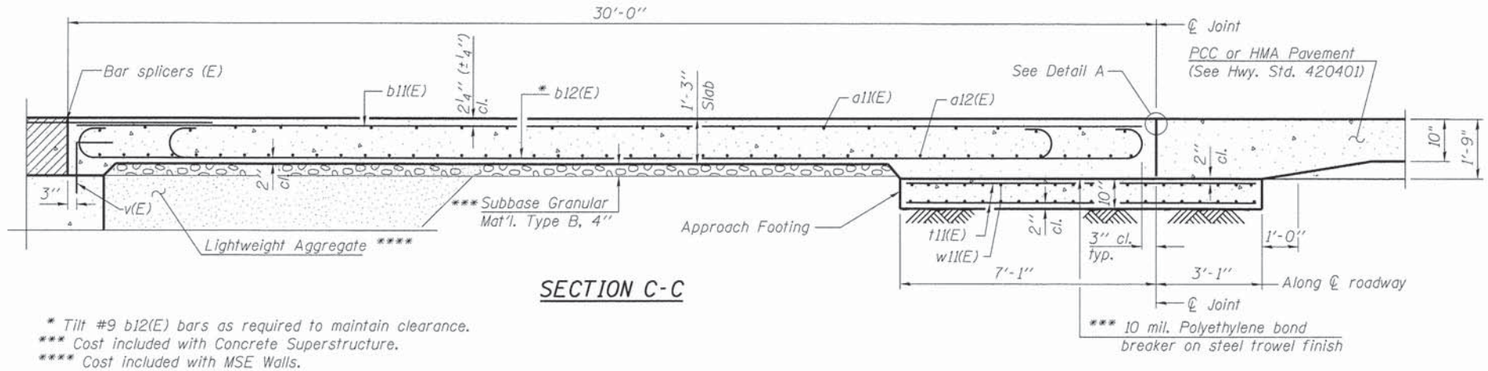
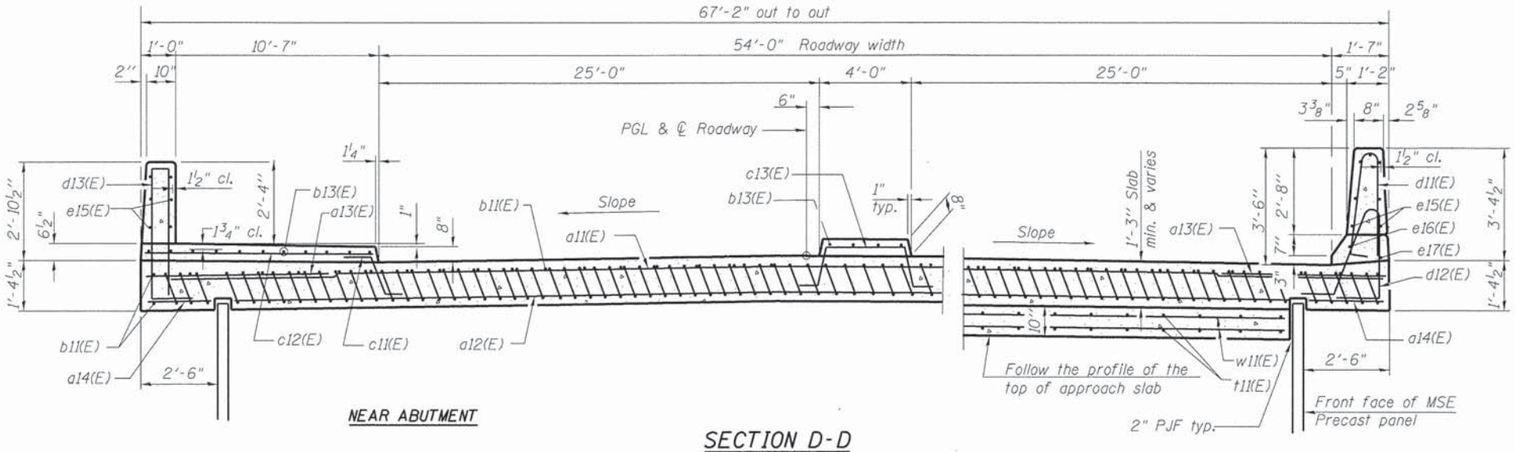


SECTION C-C

* Tilt #9 b12(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.
**** Cost included with MSE Walls.



NEAR ABUTMENT

SECTION D-D

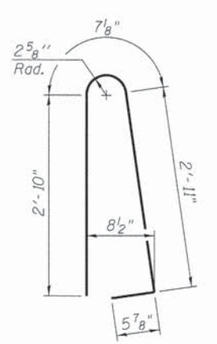
(See Plan for dimensions not shown)

AT APPROACH FOOTING

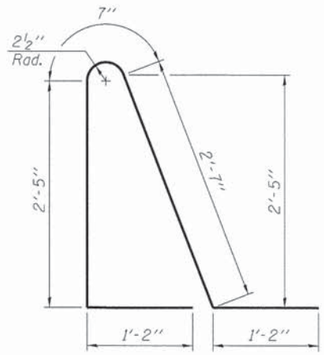
Notes:
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For additional parapet details, see sheet S18.

For location of Section C-C and D-D see Sheet S14.

Preformed Joint Steel of Detail A is incidental with contrete superstructure.



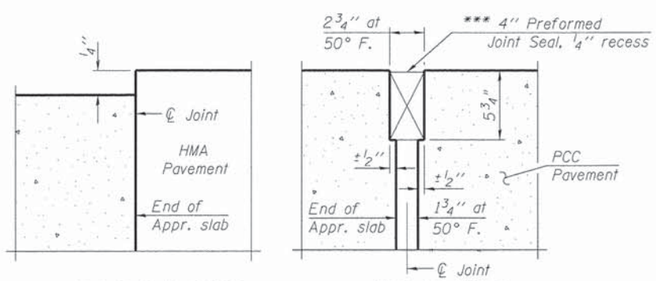
BAR d11(E)



BAR d12(E)

TWO APPROACHES
BILL OF MATERIAL

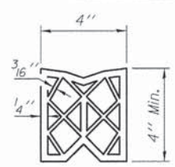
Bar	No.	Size	Length	Shape
a11(E)	100	#4	34'-11"	
a12(E)	184	#5	35'-0"	
a13(E)	100	#6	6'-6"	
a14(E)	184	#5	2'-2"	
b11(E)	112	#4	29'-8"	
b12(E)	324	#9	29'-9"	
b13(E)	28	#5	29'-8"	
c11(E)	60	#5	3'-2"	
c12(E)	60	#5	11'-3"	
c13(E)	60	#5	7'-11"	
d4(E)	3	#6	5'-1"	
d5(E)	5	#6	8'-11"	
d11(E)	68	#5	6'-10"	
d12(E)	68	#5	7'-11"	
d13(E)	60	#5	9'-3"	
e15(E)	52	#4	14'-8"	
e16(E)	2	#8	29'-8"	
e17(E)	2	#4	29'-8"	
t11(E)	272	#4	9'-10"	
w11(E)	160	#5	32'-4"	
Rebar, Epoxy-Coated			Poured	57200
Conc. Superstruct.			Cu. Yd.	246



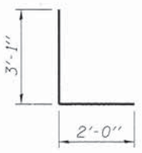
FLEXIBLE PAVEMENT

RIGID PAVEMENT

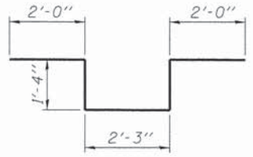
DETAIL A



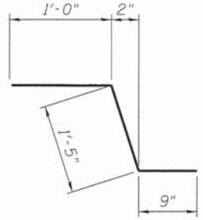
PREFORMED JOINT SEAL



BAR d4(E)



BAR d5(E)



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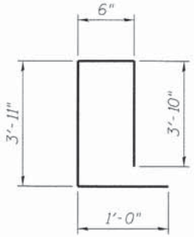

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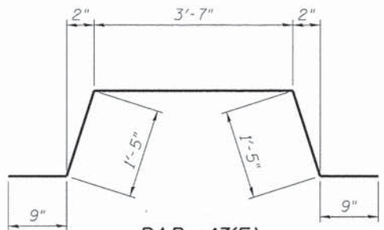

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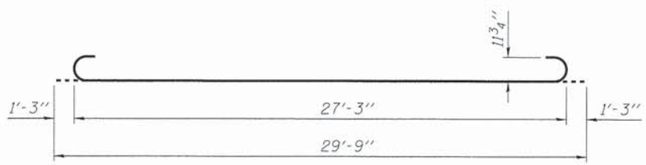

BAR b12(E)

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 148 OF 240 SHEETS

S15

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	148
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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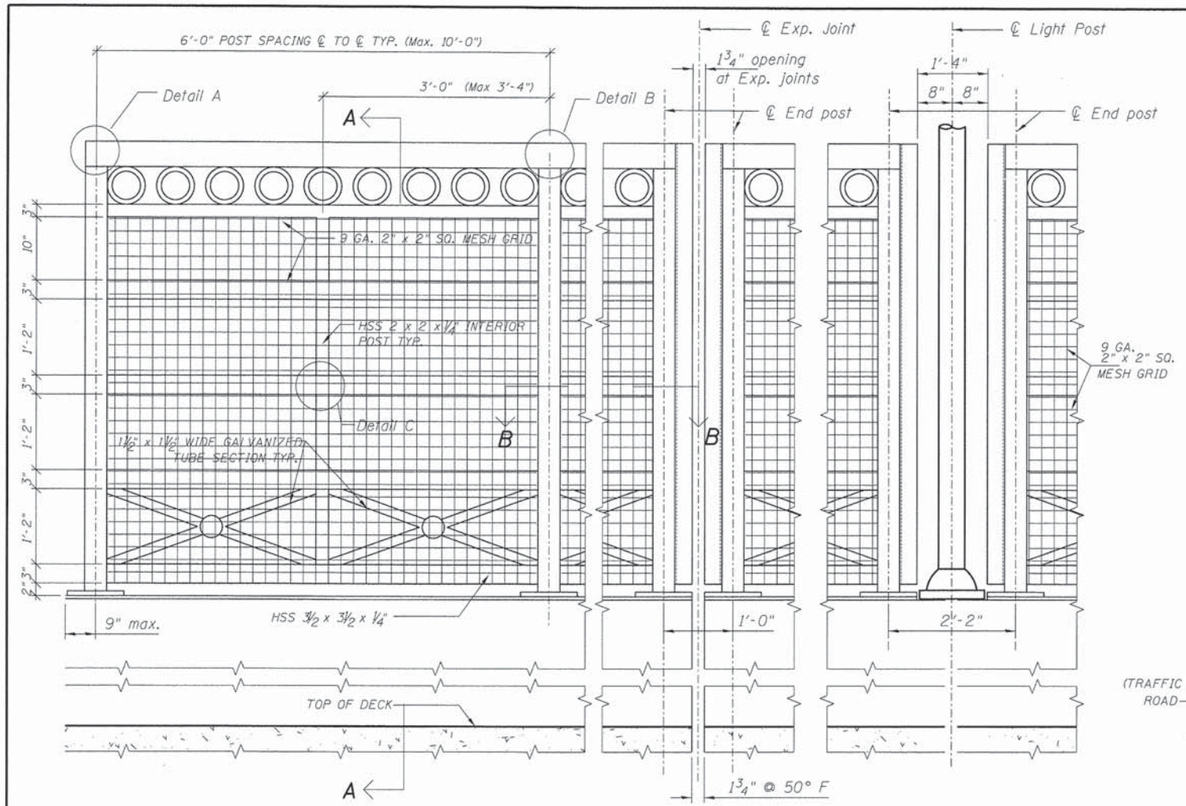
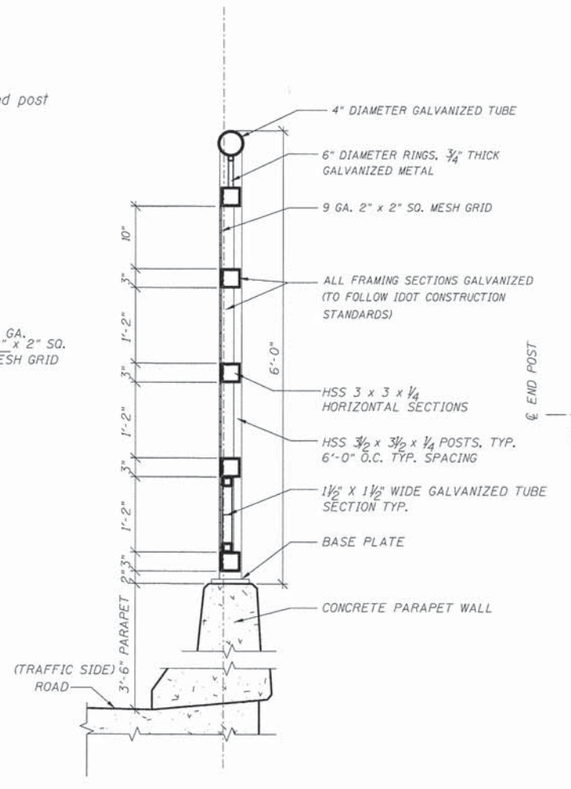
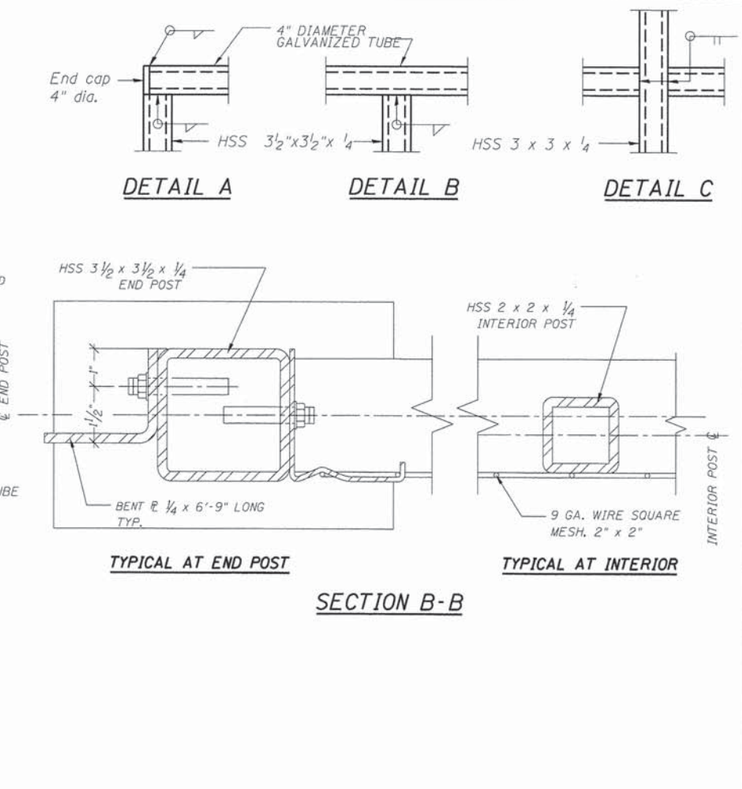


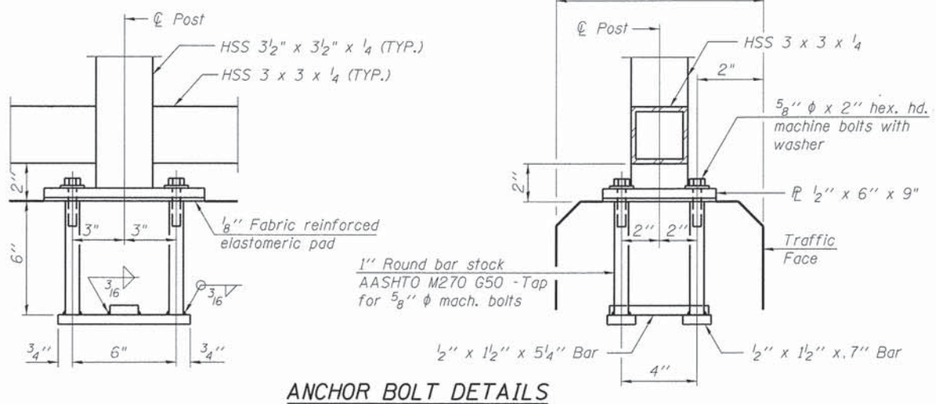
ELEVATION



SECTION A-A



SECTION B-B

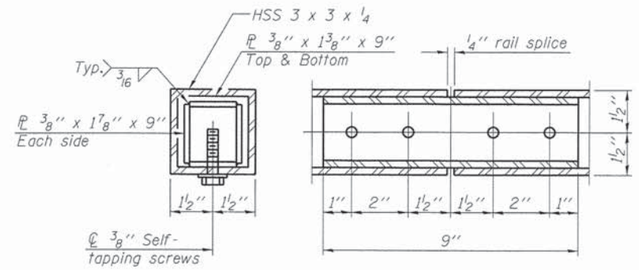


ANCHOR BOLT DETAILS

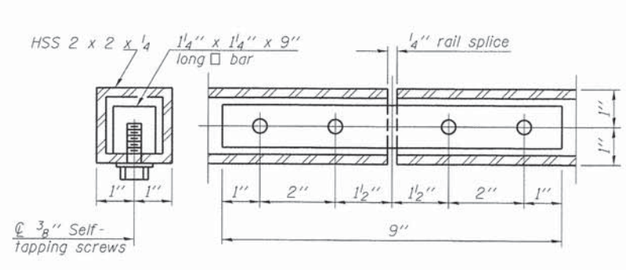
ELEVATION
At Exp. Joints

ELEVATION
At Light Post

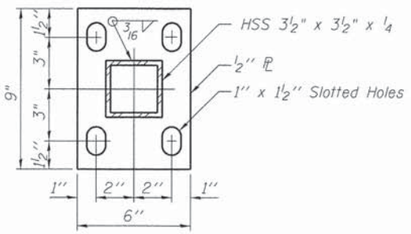
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



RAIL SPLICE



HANDRAIL SPLICE



BASE PL

Note:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	1203

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ/MH	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING
STRUCTURE NO. 016-6351
SHEET NO. 149 OF 240 SHEETS

S16

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	149
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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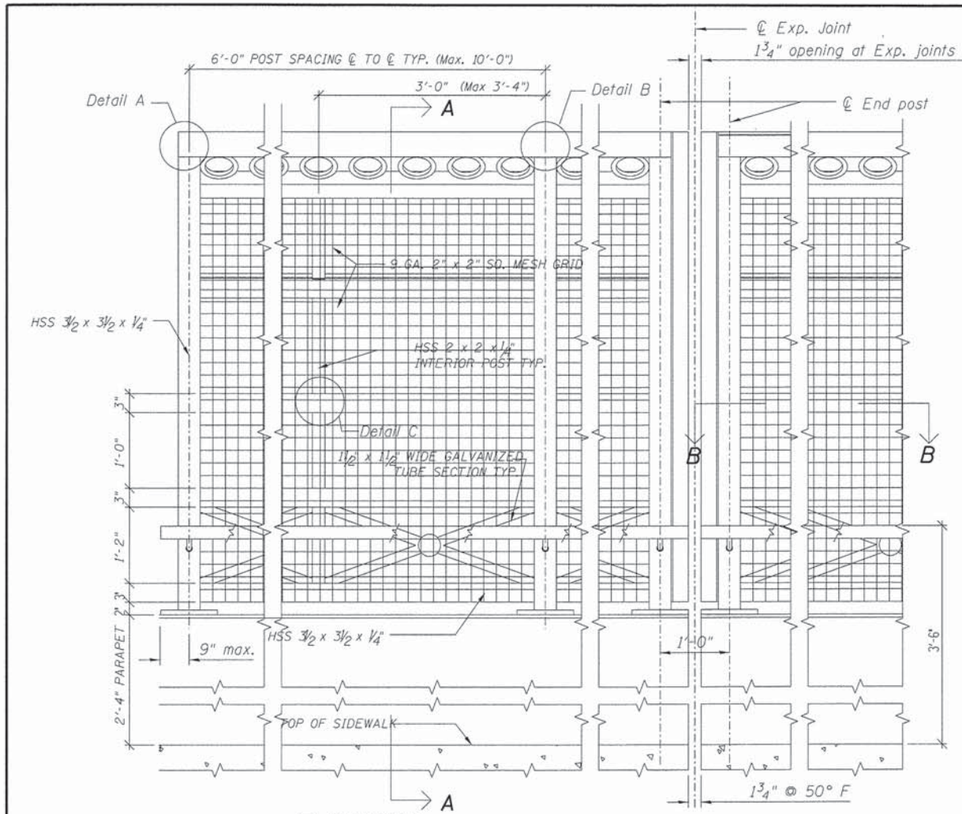
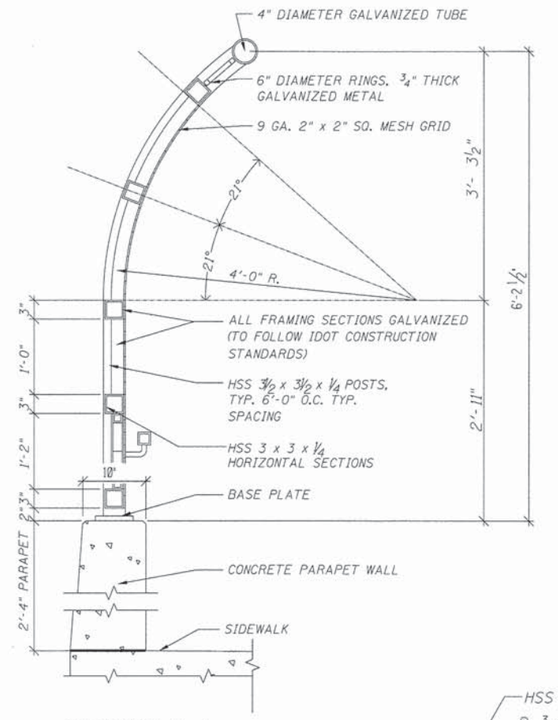
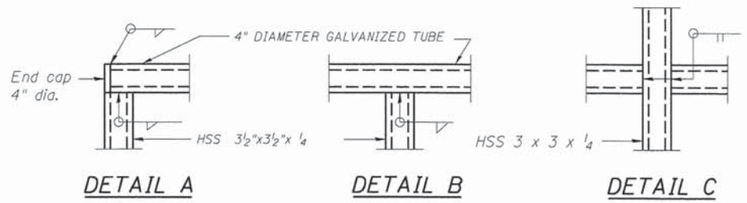


ELEVATION

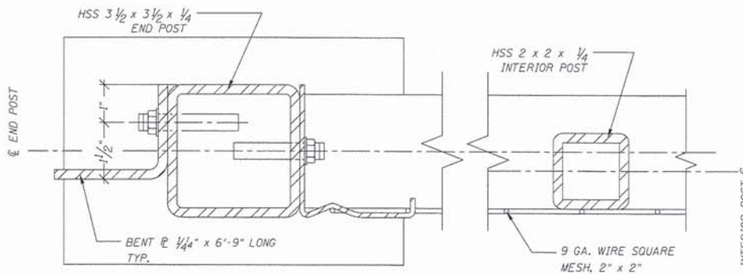
ELEVATION
At Exp. Joints



SECTION A-A

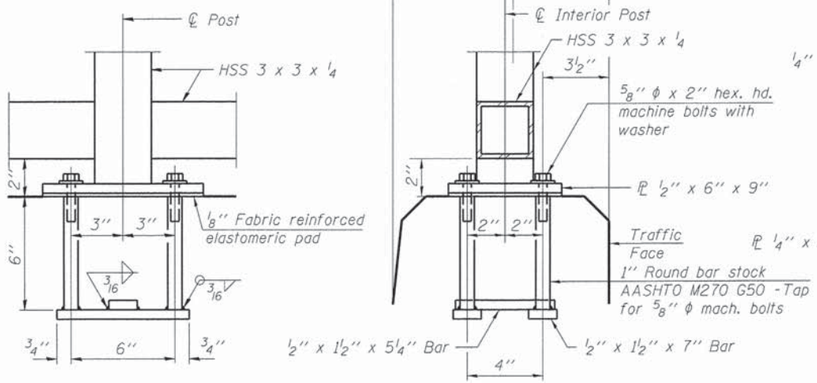


DETAIL A DETAIL B DETAIL C



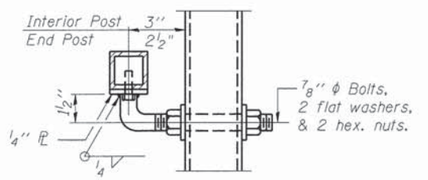
TYPICAL AT END POST TYPICAL AT INTERIOR

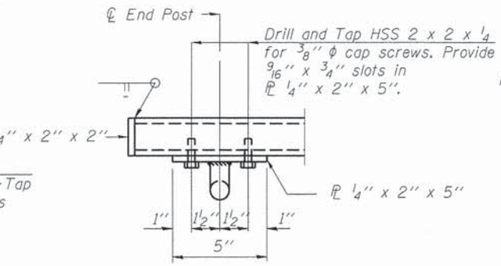
SECTION B-B



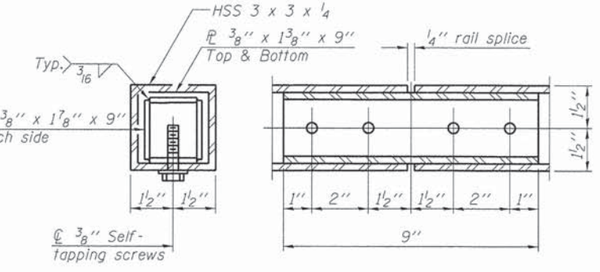
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

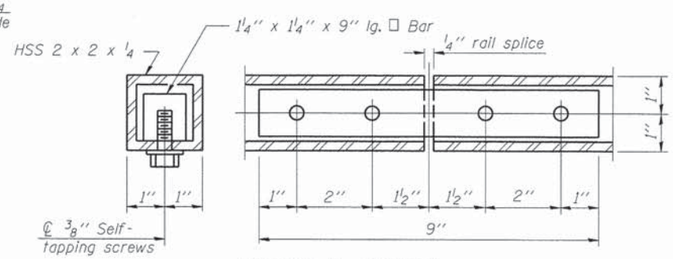




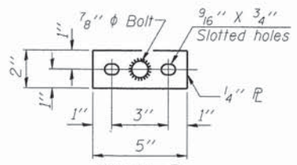
HANDRAIL DETAIL



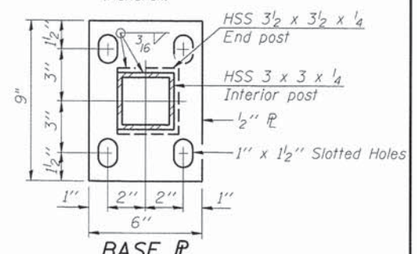
RAIL SPLICE



HANDRAIL SPLICE



BASE PL (Handrail)



BASE PL

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing (Sidewalk)	Foot	1228

USER NAME = stephen.schuh	DESIGNED - RD		REVISED
	CHECKED - JG		REVISED
PLOT SCALE = None	DRAWN - RJ/MH		REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014		REVISED

Globetrotters Engineering Corporation

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING (SIDEWALK)
STRUCTURE NO. 016-6351
SHEET NO. 150 OF 240 SHEETS

S17

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	150
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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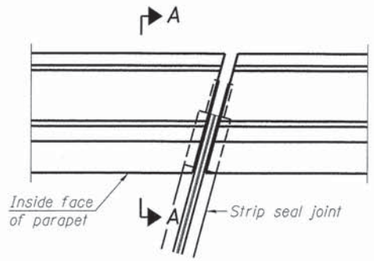
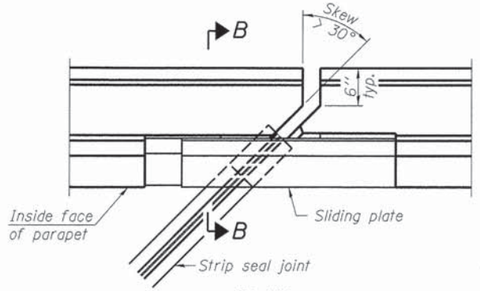
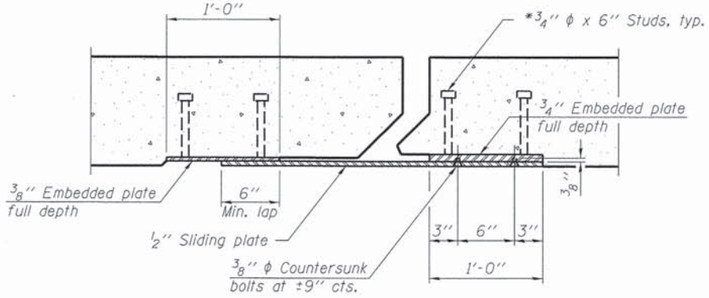


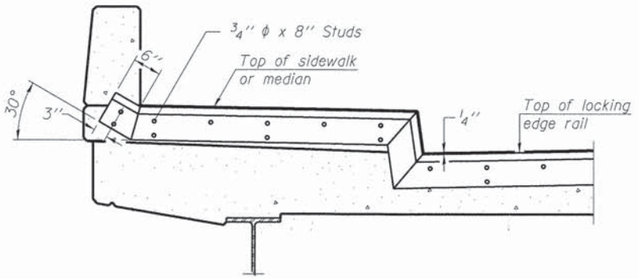
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

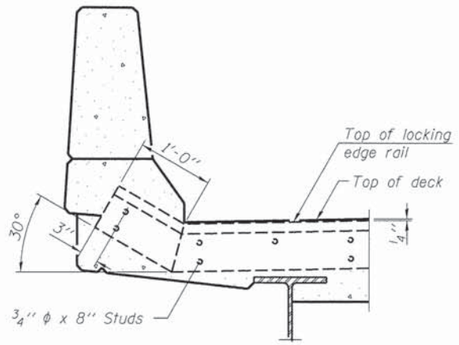


SECTION C-C

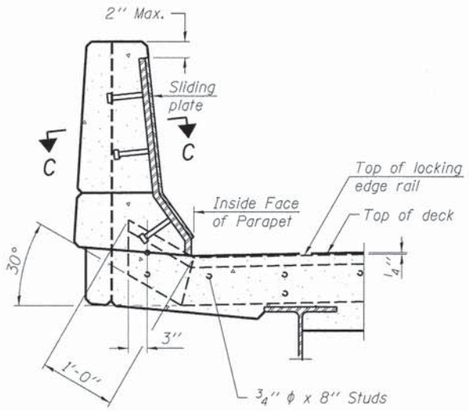


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

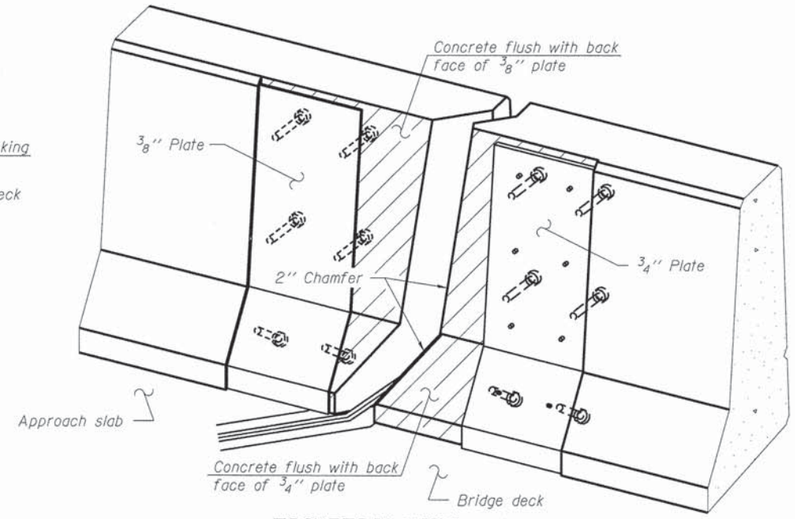
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

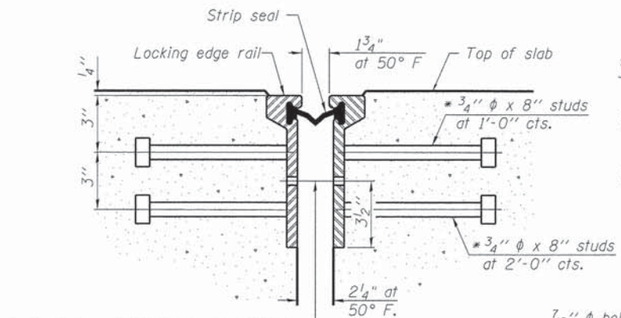
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

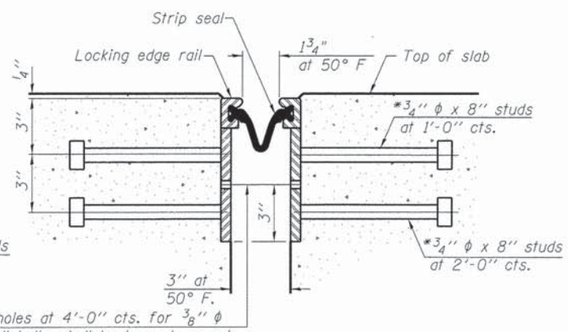
Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

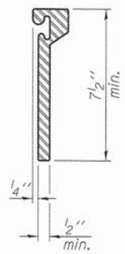
SECTION THRU ROLLED RAIL JOINT



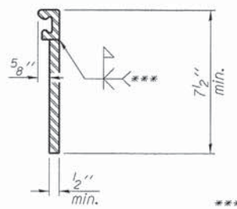
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

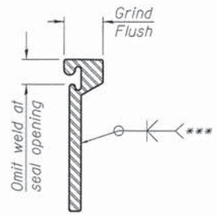
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	142

EJ-SSJ 1-27-12

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-6351
SHEET NO. 151 OF 240 SHEETS

S18

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	151
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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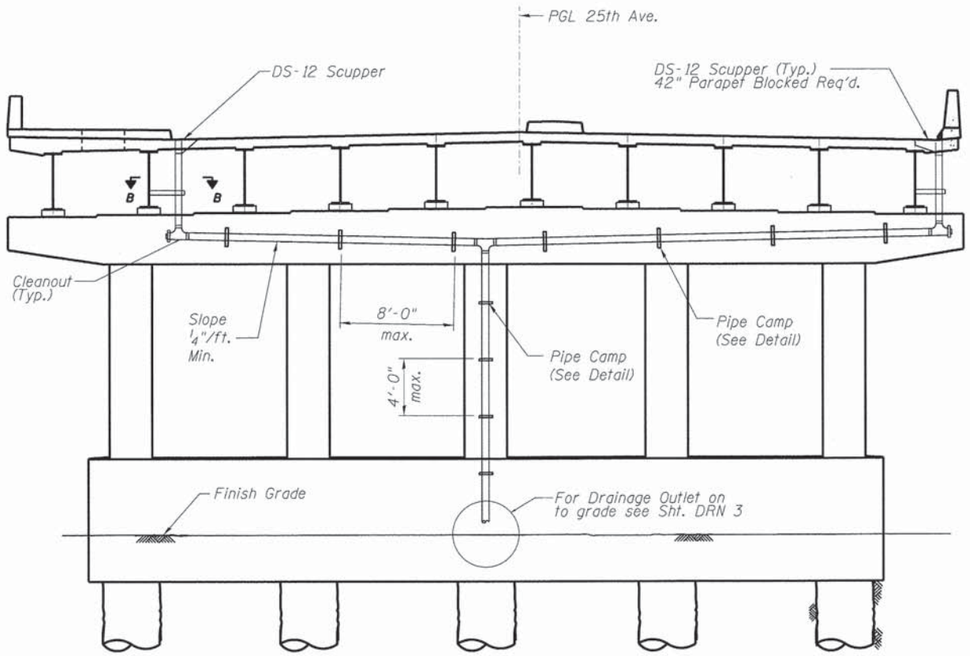
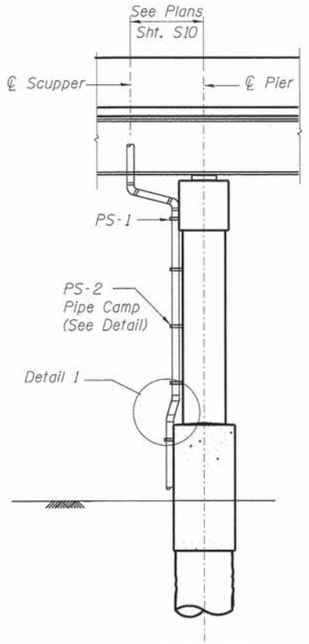
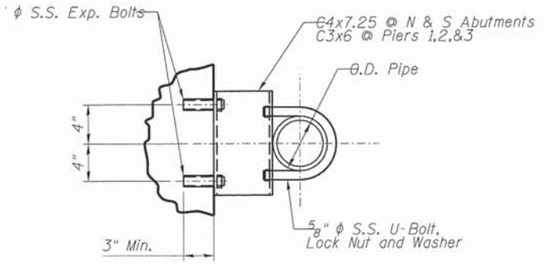


ELEVATION

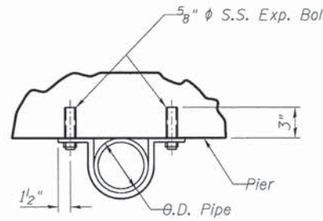
(Looking North - Pier 1 Shown)
Piers 2 & 3 Similar
but drawn on South Side)



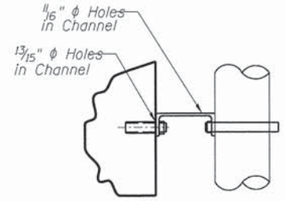
END VIEW



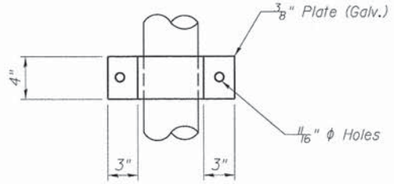
PLAN



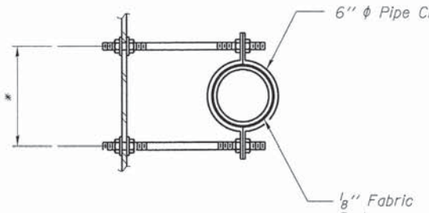
PLAN



PIPE SUPPORT DETAIL PS-2

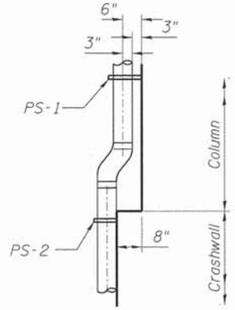


PIPE SUPPORT DETAIL PS-1



SECTION B-B

*Dimension as required
by Pipe Clamp



DETAIL 1

Notes:

This Elevation View is looking North, (with sidewalk on the West Side). This is applicable only to Pier One, which has piping on the South Side. Piers Two and Three having piping on their North Sides. Note as such.

S19A

Globetrotters Engineering Corporation	USER NAME = mohammed.ali	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - DH/RJ	REVISED
	PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DRAINAGE ELEVATION
STRUCTURE NO. 016-6351
SHEET NO. 152 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	152
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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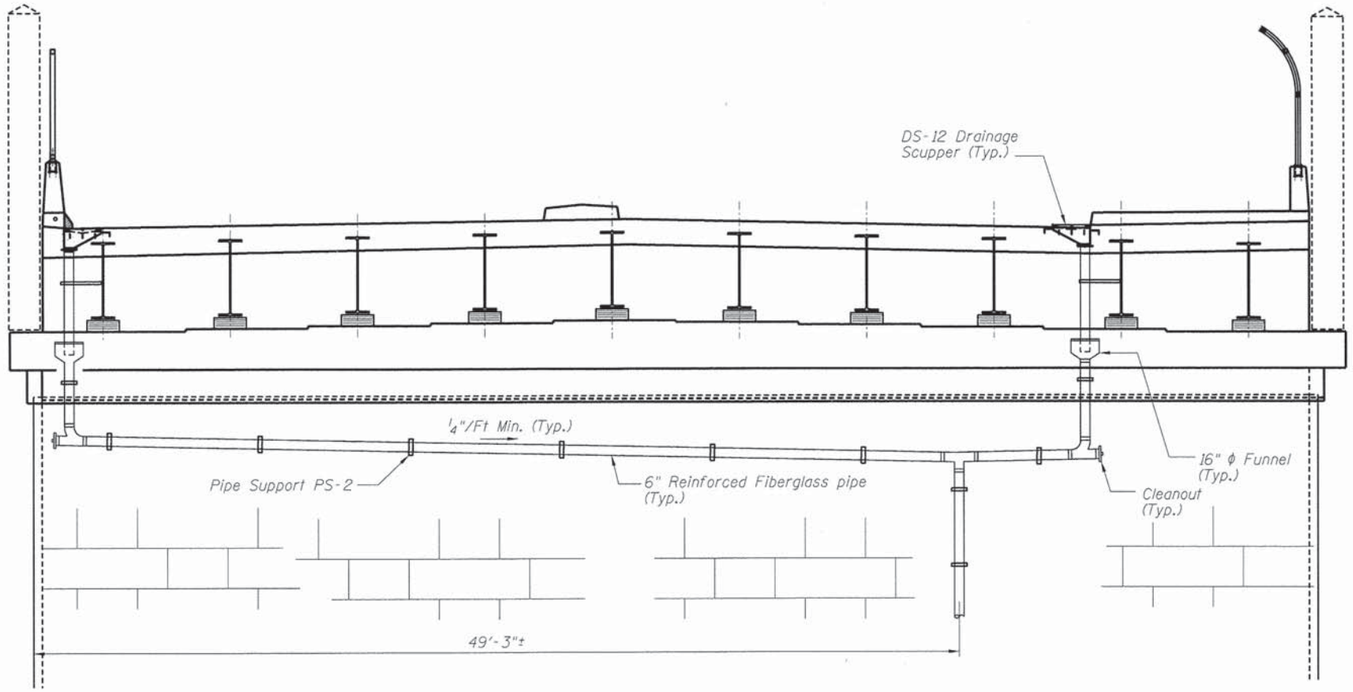
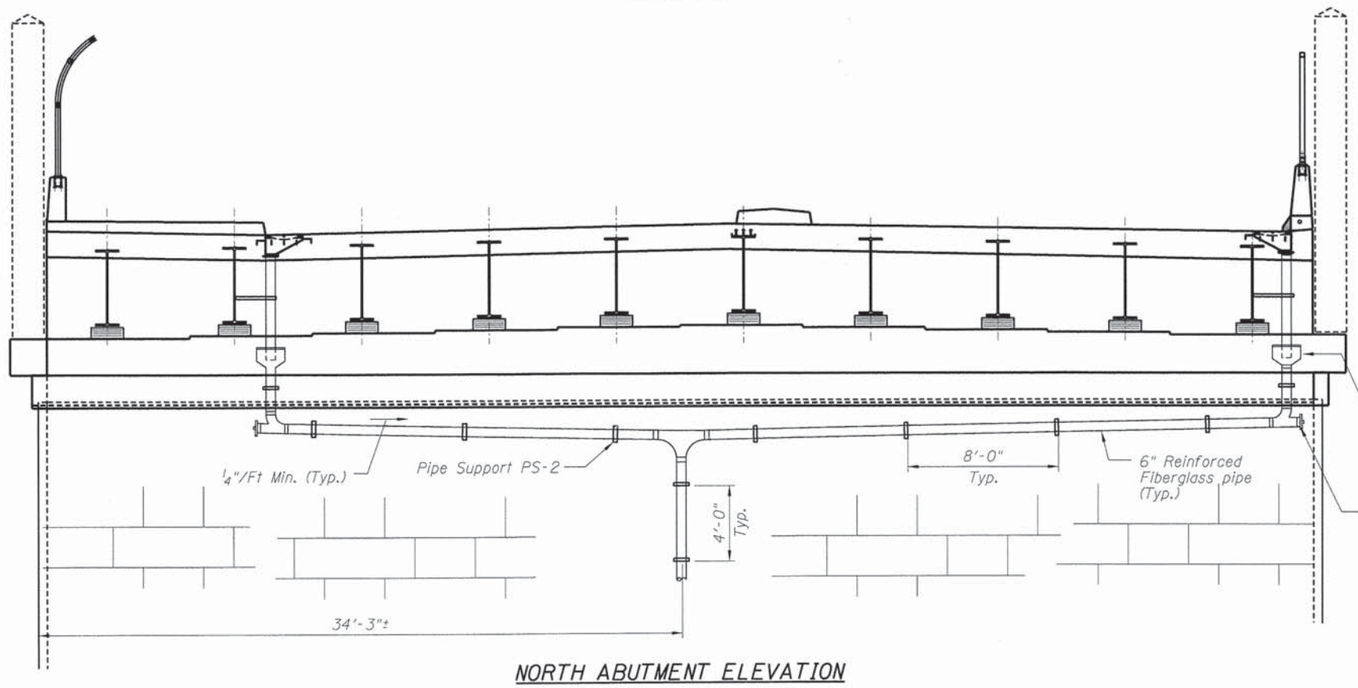


SOUTH ABUTMENT ELEVATION

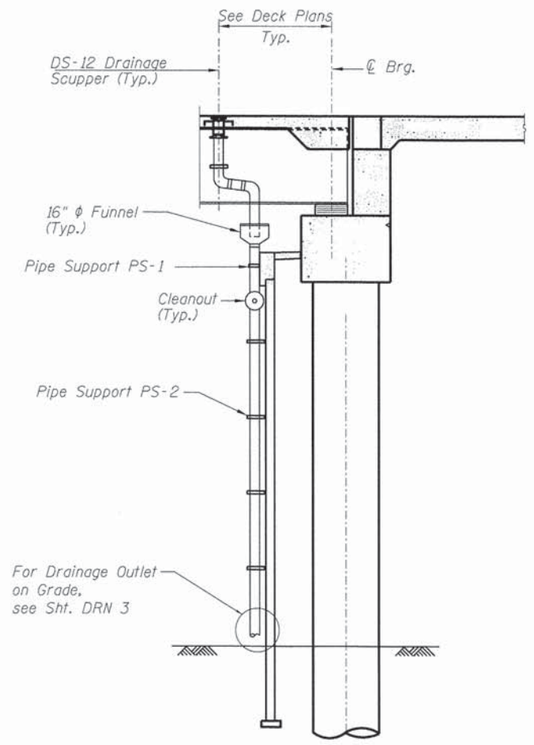
Looking South



NORTH ABUTMENT ELEVATION

Looking North

Note: Parapet and fence and/or sidewalk are not shown.



END VIEW
SECTION THRU ABUTMENT

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE ELEVATION AT ABUTMENTS STRUCTURE NO. 016-6351	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JG	REVISED			2714	99-00094-00-GS	COOK	240	153
	PLOT SCALE = None	DRAWN - DH/RJ	REVISED		SHEET NO. 153 OF 240 SHEETS			CONTRACT NO. 63887		
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED					ILLINOIS FED. AID PROJECT		

S19B

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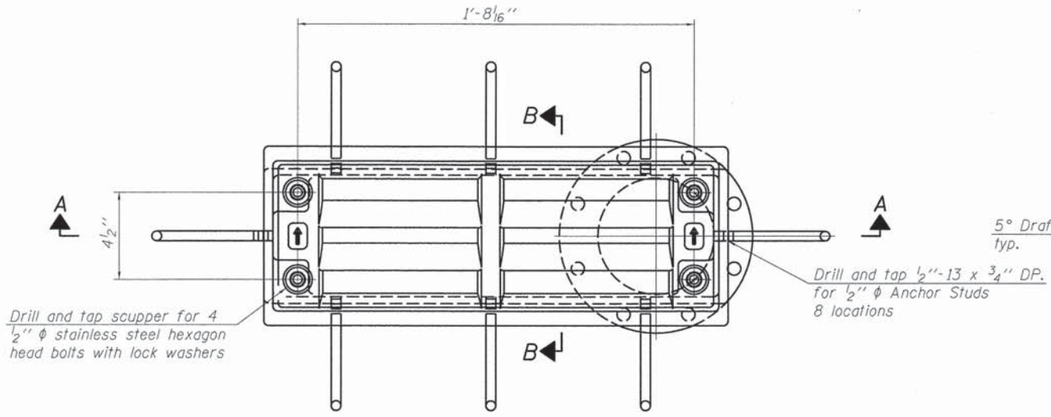
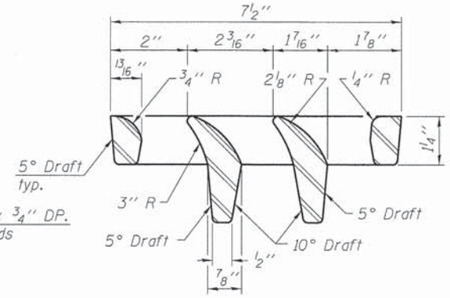
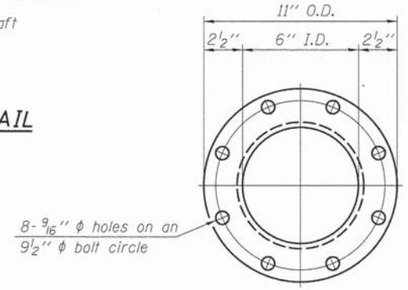
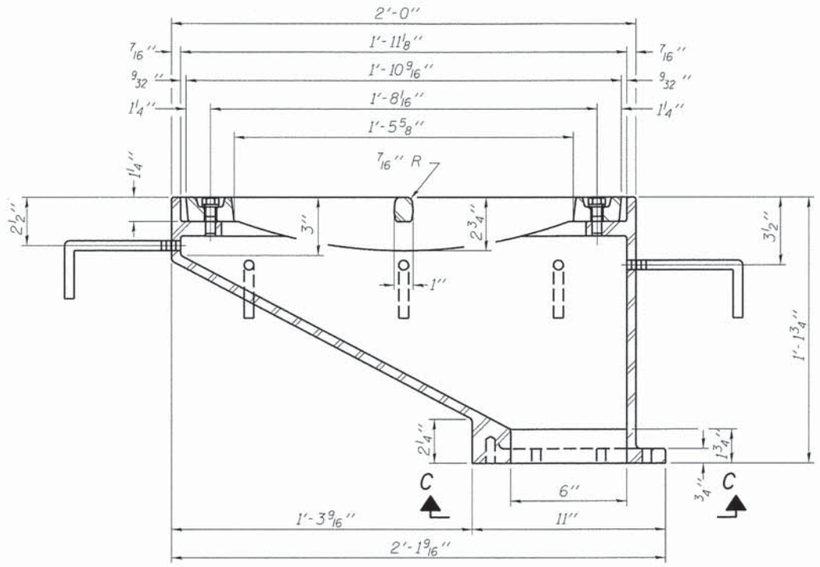


PLAN



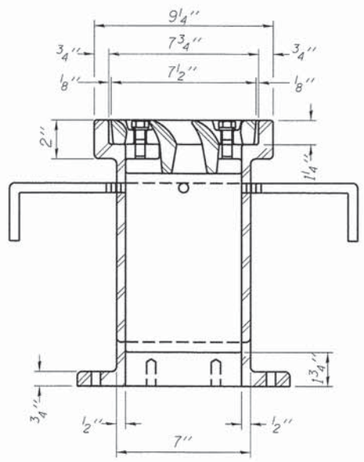
VANE GRATE DETAIL



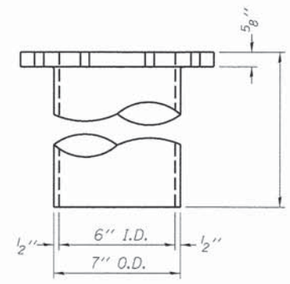


SECTION A-A

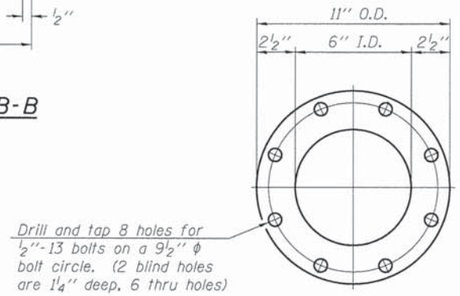
See sheet S10 of S13 for scupper location relative to parapet.



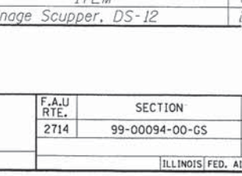
SECTION B-B



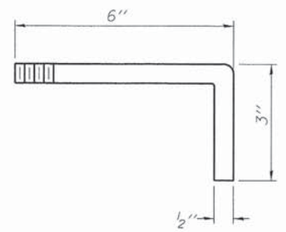
DOWNSPOUT



VIEW C-C



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	10

DS-12 7-1-10

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-12
STRUCTURE NO. 016-6351
SHEET NO. 154 OF 240 SHEETS

S19

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	154
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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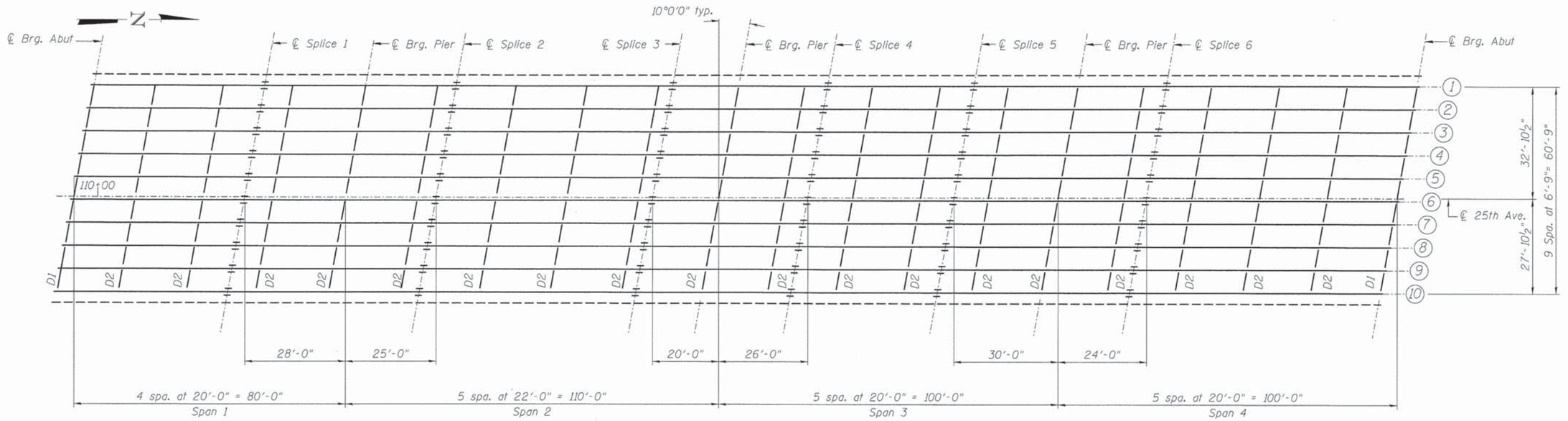
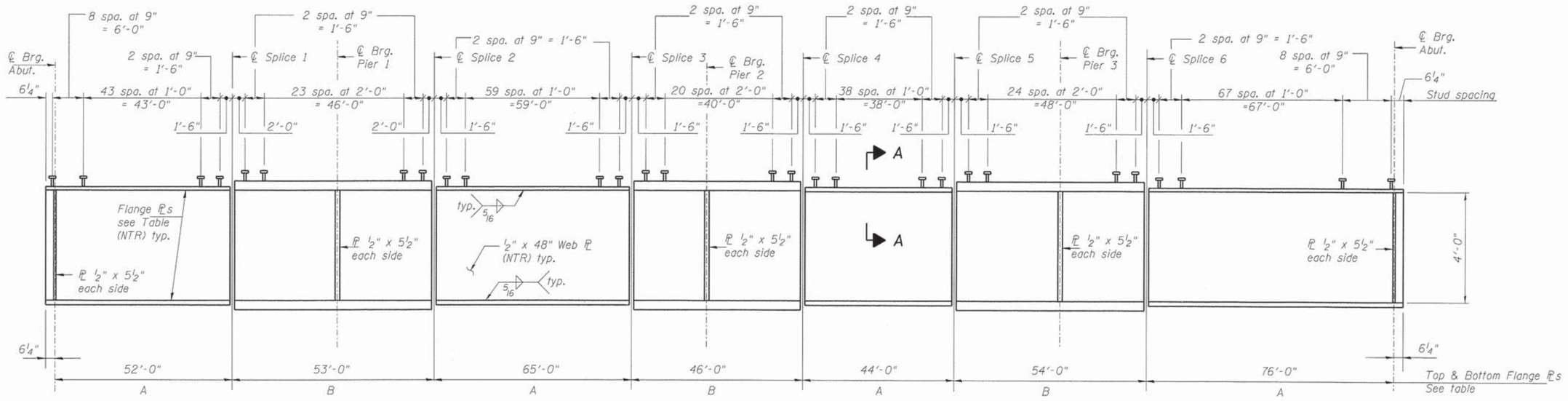


FRAMING PLAN



GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.

FLANGE PLATE THICKNESS FOR GIRDER 1 THRU 10		
Location	A	B
Top	¾" x 1'-2"	1¼" x 1'-2"
Bottom	⅞" x 1'-2"	1⅜" x 1'-2"

Notes:
1. All Structural Steel on this sheet shall be AASHTO M270 Grade 50W Steel.
2. All splice plates shall comply with NTR.
3. Longitudinal dimensions for Girders are shown horizontal, exclusive of rise.
4. 15/16"ϕ holes typ. for all ⅞"ϕ bolts unless noted otherwise.
5. Two hardened washers shall be required over all holes for diaphragm connections.
6. For Section A-A see sheet S21.
7. For Splice details see sheet S21.
8. All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL – FRAMING PLAN
STRUCTURE NO.
SHEET NO. 155 OF 240 SHEETS

S20

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	155
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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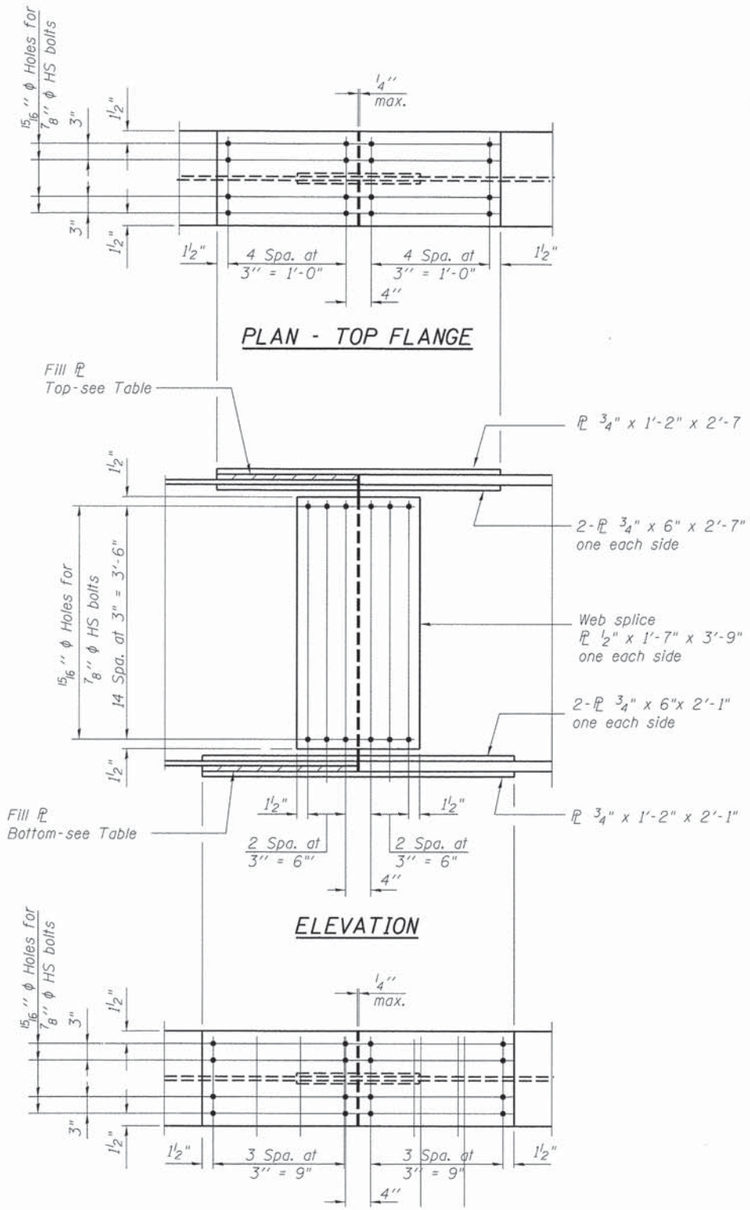


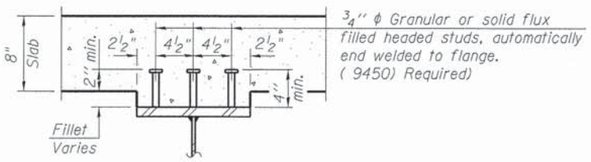
PLAN - TOP FLANGE

ELEVATION

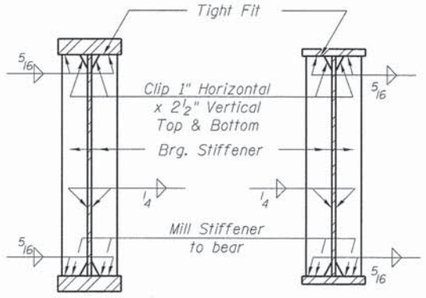
PLAN - BOTTOM FLANGE

SPLICE DETAIL

(60 Required)



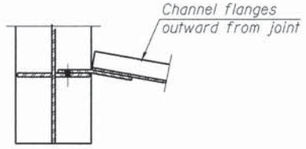
SECTION A-A



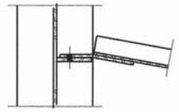
SECTION AT PIER

SECTION AT ABUTMENT

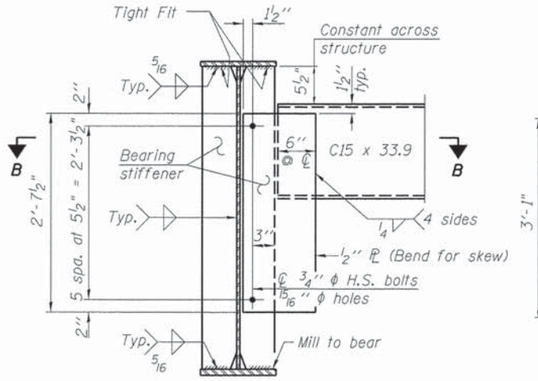
BEARING STIFFENER



SECTION B-B



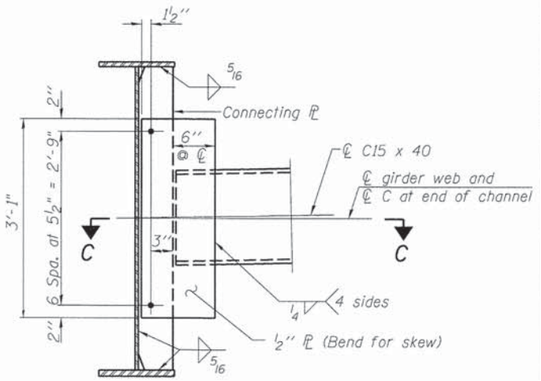
SECTION C-C



END DIAPHRAGM-D1

Note: Two hardened washers required for each set of oversized holes.

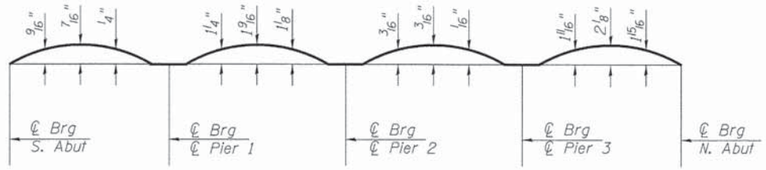
18 REQUIRED



INTERIOR DIAPHRAGM-D2

Note:
Two hardened washers required for each set of oversized holes.
*3/4" ϕ HS bolts, 15/16" ϕ holes

162 REQUIRED



CAMBER DIAGRAM

Note: Alternate channels C15x50, are permitted to facilitate material acquisition. Calcualted wieght of structural steel is based on the C15x40 sections. The alternate, if utilized, shall be provided at no additional cost to the department.

FILL PLATES THICKNESS AT SPLICE

Location	SP 1	SP 2	SP 3	SP 4	SP 5	SP 6
Top	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Bottom	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

TOP OF WEB ELEVATIONS

Note:
Top of web elevations for fabrication only

Girder	℄ Brg S. Abut	Splice 1	℄ Brg ℄ Pier 1	Splice 2	Splice 3	℄ Brg ℄ Pier 2	Splice 4	Splice 5	℄ Brg ℄ Pier 3	Splice 6	℄ Brg N. Abut
1	663.64	664.67	665.35	665.36	665.20	665.08	664.45	663.21	662.13	660.99	657.46
2	663.75	664.78	665.46	665.46	665.30	665.18	664.55	663.32	662.23	661.09	656.76
3	663.86	664.89	665.57	665.57	665.41	665.29	664.66	663.42	662.34	661.20	657.87
4	663.85	665.01	665.66	665.70	665.58	665.42	664.75	663.53	662.50	661.34	657.05
5	663.99	665.10	665.75	665.78	665.63	665.54	664.87	663.64	662.66	661.24	657.24
6	664.03	665.17	665.81	665.88	665.77	665.63	664.96	663.72	662.77	663.86	657.40
7	663.89	665.07	665.69	665.83	665.65	665.55	664.83	663.61	662.73	661.33	657.37
8	663.74	664.92	665.57	665.69	665.48	665.47	664.67	663.47	662.66	663.28	657.35
9	663.59	664.86	665.45	665.57	665.43	665.38	664.17	663.47	662.61	663.68	657.32
10	663.45	664.73	665.33	665.47	665.29	665.29	664.53	663.26	662.56	663.13	657.29

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connect.	Each	9450
Furn. and Erect Struc. Stl.	L. Sum.	1

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.^{4} and in.^{3}).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.^{4} and in.^{3}).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.^{4} and in.^{3}).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3\ f_s(L+IM)$

$0.95R_hF_yf$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (f_{sDC1} + f_{sDC2}) + 1.5\ f_{sDW} + 1.75\ f_s(L+IM)$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_f: Maximum factored shear range in span computed according to Article 6.10.10.

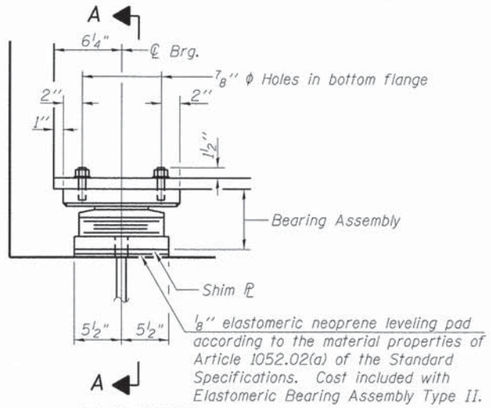
Note:
M_L and R_L include the effects of centrifugal force and superelevation.

INTERIOR GIRDER MOMENT TABLE

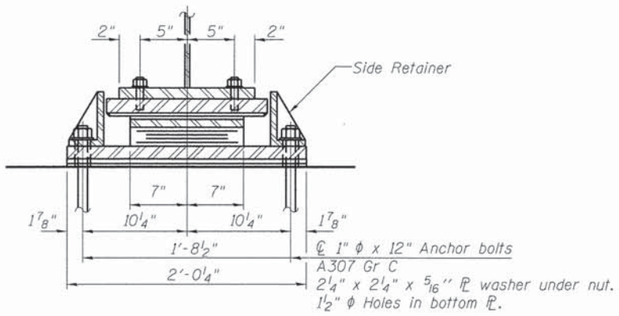
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.6 Sp. 4
I_s	(in^4)	18123	26295	18123	26295	18123	26295	18123
$I_c(n)$	(in^4)	50926	30992	50926	30992	50926	30992	50926
$I_c(3n)$	(in^4)	37256	30992	37256	30992	37256	30992	37256
S_s	(in^3)	757	1093	757	1093	757	1093	757
$S_c(n)$	(in^3)	1129	1406	1129	1406	1129	1406	1129
$S_c(3n)$	(in^3)	1024	1160	1024	1160	1024	1160	1024
DC1	(k/')	0.851	0.853	0.854	0.858	0.861	0.854	0.846
M_{DC1}	('k)	308	941	459	844	195	1019	655
DC2	(k/')	0.131	0.131	0.131	0.131	0.131	0.131	0.131
M_{DC2}	('k)	47	133	71	121	32	144	100
DW	(k/')	0.240	0.240	0.240	0.240	0.240	0.240	0.240
M_{DW}	('k)	87	244	130	221	58	263	183
M_{L+IM}	('k)	974	206	1012	225	968	204	1200
M_u (Strength I)	('k)	2279	2069	2629	1932	2065	2205	3318
$\phi_f M_n$	('k)	5845	x	5711	x	5944	x	5540
f_s DC1	(ksi)	4.88	10.34	7.28	9.27	3.09	11.19	10.39
f_s DC2	(ksi)	0.55	1.38	0.83	1.25	0.38	1.49	1.17
f_s DW	(ksi)	1.02	2.52	1.52	2.29	0.68	2.72	2.14
f_s (L+IM)	(ksi)	10.58	13.21	11.03	14.33	10.53	15.54	13.06
f_s (Service II)	(ksi)	20.21	31.41	23.97	31.44	17.83	35.60	30.68
$0.95R_hF_{yf}$	(ksi)	50.00	50.00	50.00	50.00	50.00	50.00	50.00
f_s (Total)(Strength I)	(ksi)	26.84	41.55	31.72	41.66	23.78	47.12	40.52
$\phi_f F_n$	(ksi)	39.60	50.00	38.00	50.00	47.00	50.00	35.60
V_f	(k)	17.2	26.8	20.4	29.8	19.7	28.6	19.5

INTERIOR GIRDER REACTION TABLE

		S. Abut.	Pier 1	Pier 2	Pier 3	N. Abut.
R_{DC1}	(k)	23.9	97.4	91.6	101.3	34.1
R_{DC2}	(k)	3.6	14.2	13.4	14.8	5.1
R_{DW}	(k)	6.6	26.0	24.6	27.0	9.4
R_{L+IM}	(k)	78.2	149.4	146.8	154.7	83.5
R_{Total}	(k)	112.3	287.0	276.4	297.8	132.1

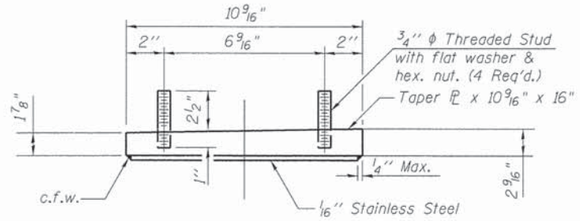


ELEVATION

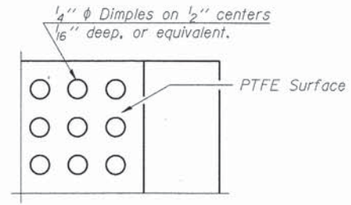


SECTION A-A

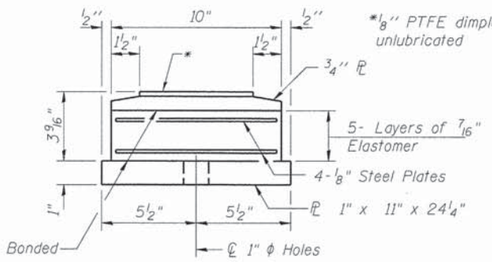
TYPE II ELASTOMERIC EXP. BRG. AT ABUTMENTS



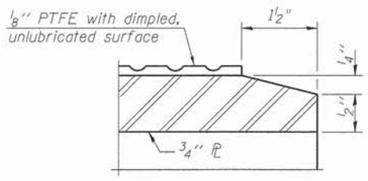
TOP BEARING ASSEMBLY



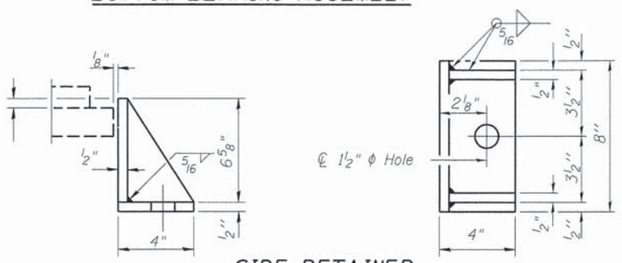
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

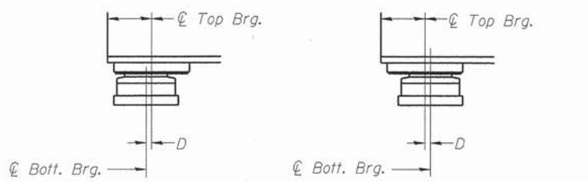


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50°F. (Move bott. brg. away from fixed brg.)

ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

The structural steel plates of the Bearing Assemply shall conform to the requirements of AASHTO M270 grade 50W.

Two ⅛" adjusting shims shall be provided for each bearing in addition to the other plates or shims and placed as shown on the bearing plans.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade -50 (AASHTO M 270 Grade -50W.)

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. For Type I elastometric bearings, shims should be detailed between the bearing and the flange, and not extend beyond their mutual contact area.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II - 10" x 14"	Each	20
Anchor Bolts	Each	40

I-2E-2

1-27-12

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 158 OF 240 SHEETS

S23

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	158
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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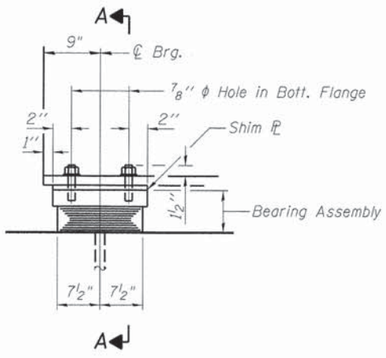
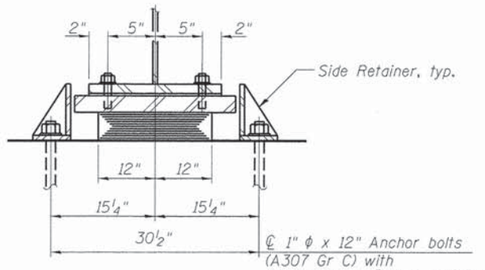
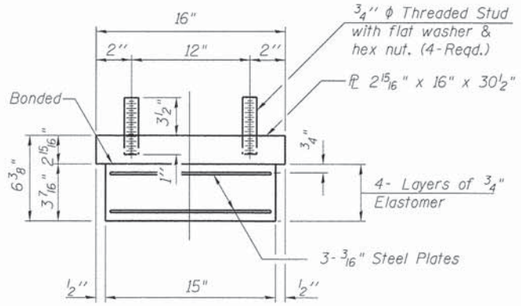


ELEVATION



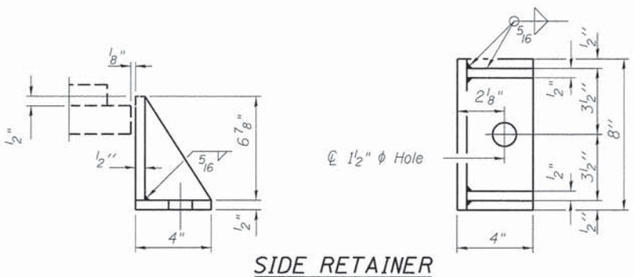
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. - PIER 1



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

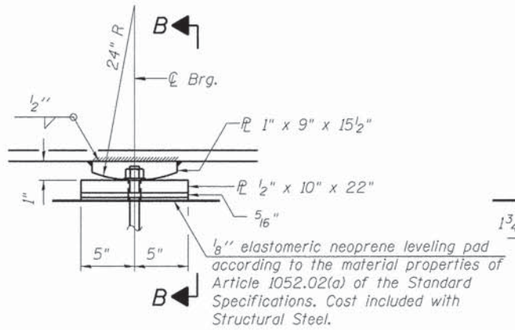
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The structural steel plates of the bearing assembly shall conform to the requirements of AASHTO M270 Grade 50 (AASHTO M270 Grade 50W).

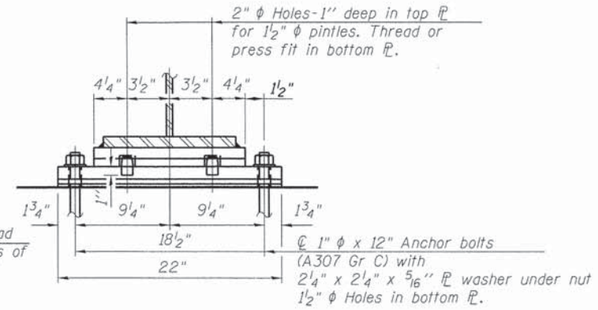
Two ⅛" adjusting shims shall be provided for each bearing in addition to other plates or shims and placed as shown on the bearing plans.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade - 50 (AASHTO M 270 Grade - 50W.)

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. For Type I elastometric bearings, shims should be detailed between the bearing and the flange, and not extend beyond their mutual contact area.

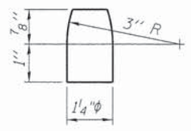


ELEVATION



SECTION B-B

FIXED BEARING - PIER 2



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I 15"X24"	Each	10
Anchor Bolts	Each	20

I-2E-1

1-27-12

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 159 OF 240 SHEETS

S24

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	159
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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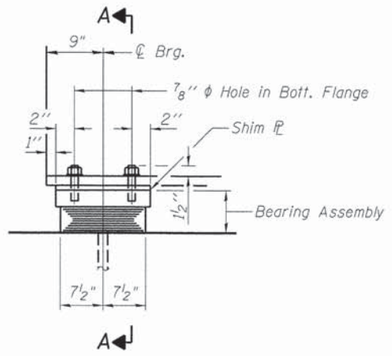
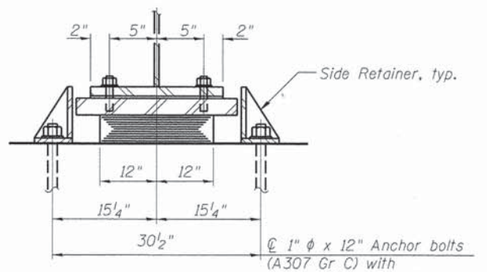
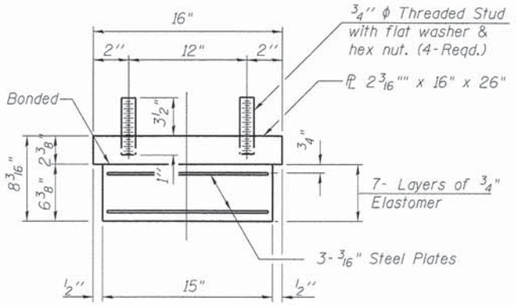


ELEVATION



SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. - PIER 3



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

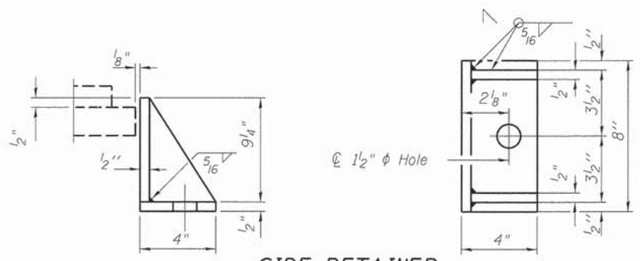
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The structural steel plates of the bearing assembly shall conform to the requirements of AASHTO M270 Grade 50 (AASHTO M270 Grade 50W).

Two 1/8" adjusting shims shall be provided for each bearing in addition to other plates or shims and placed as shown on the bearing plans.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade - 50W (AASHTO M 270 Grade - 50W.)

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. For Type I elastometric bearings, shims should be detailed between the bearing and the flange, and not extend beyond their mutual contact area.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I 15"X24"	Each	10
Anchor Bolts	Each	20

I-2E-2

1-27-12

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 160 OF 240 SHEETS

S25

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	160
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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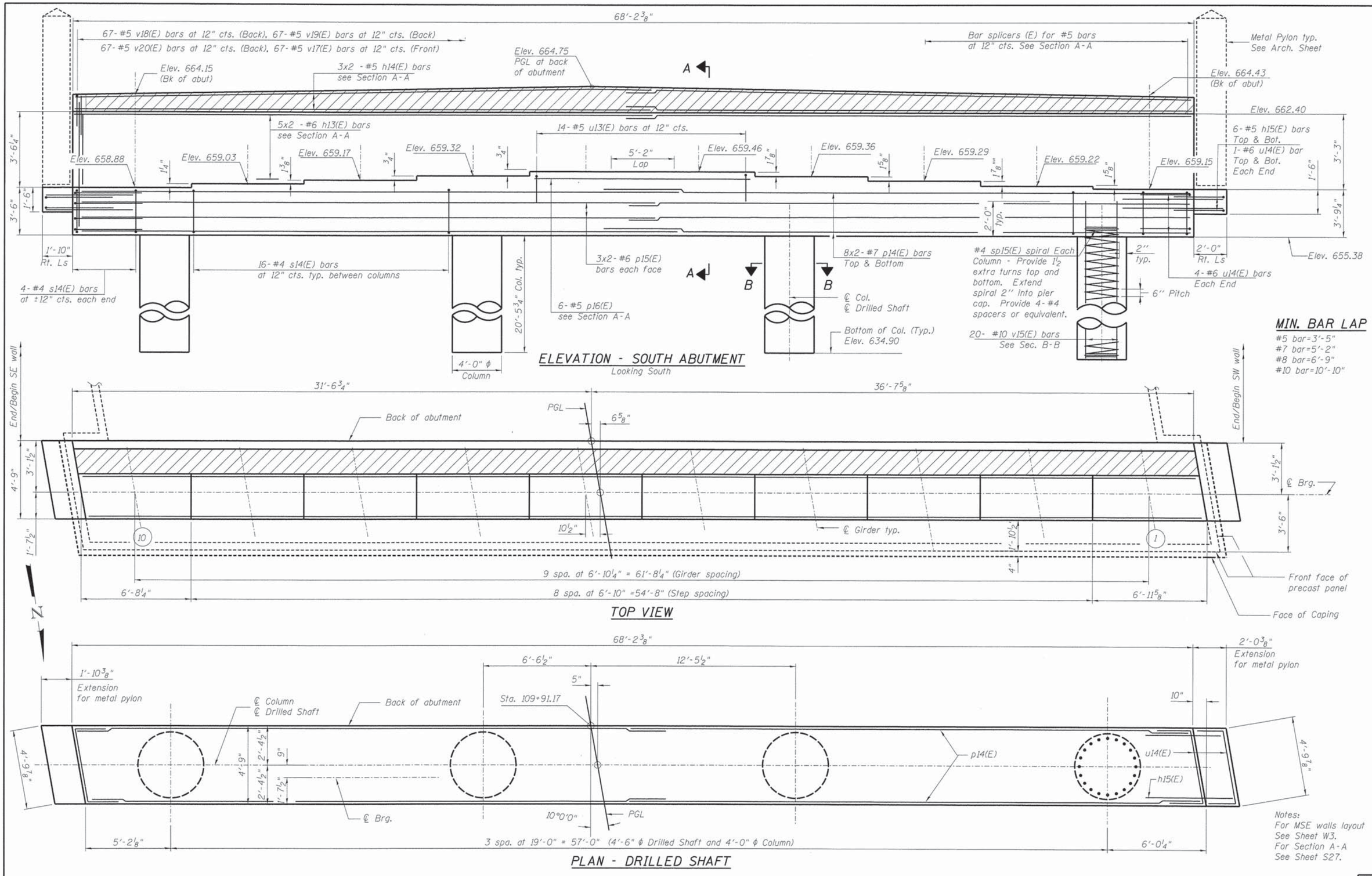

Notes:
For MSE walls layout See Sheet W3.
For Section A-A See Sheet S27.

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

Globetrotters® Engineering Corporation

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 016-6351
SHEET NO. 161 OF 240 SHEETS

S26

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	161
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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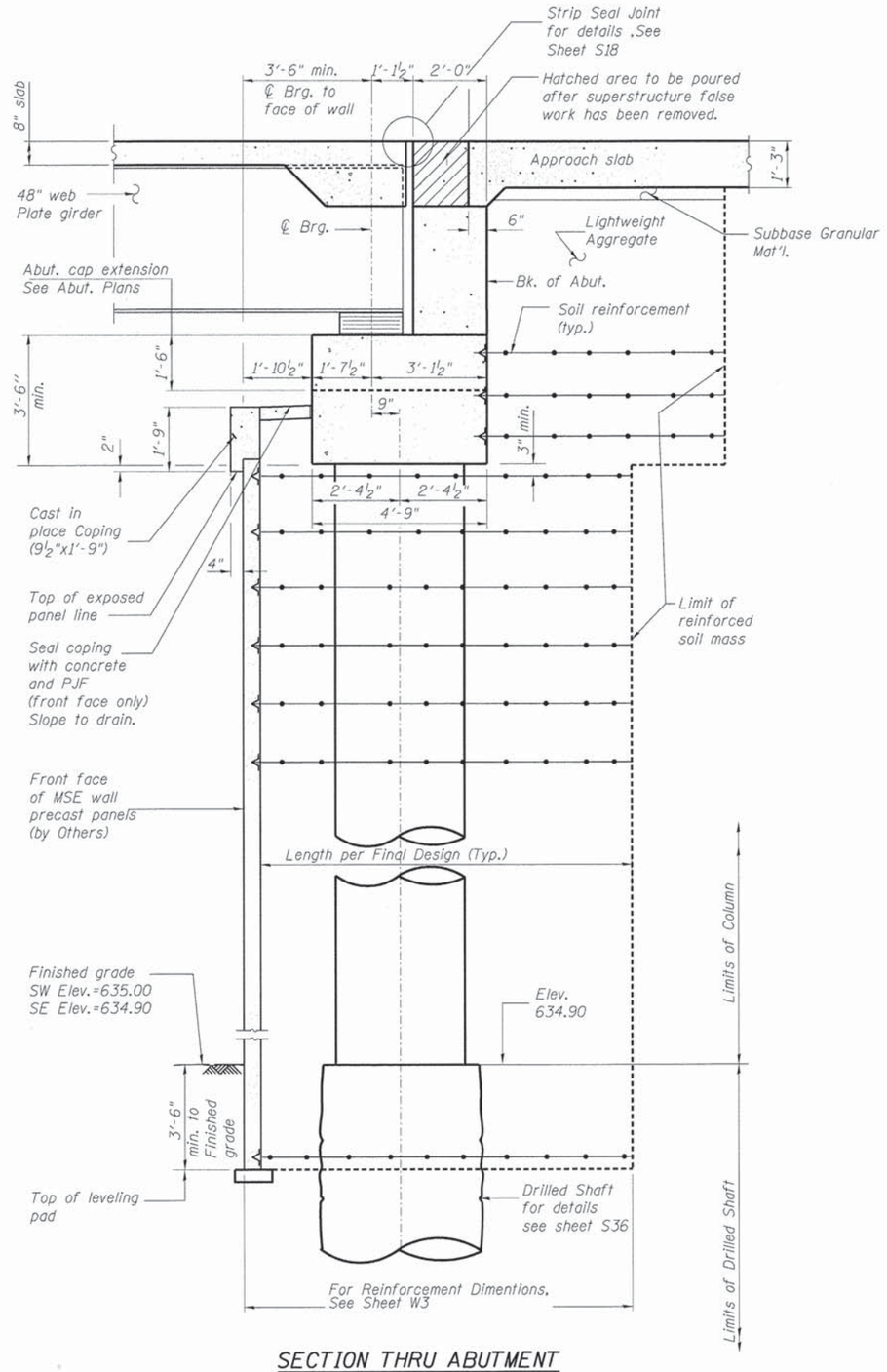
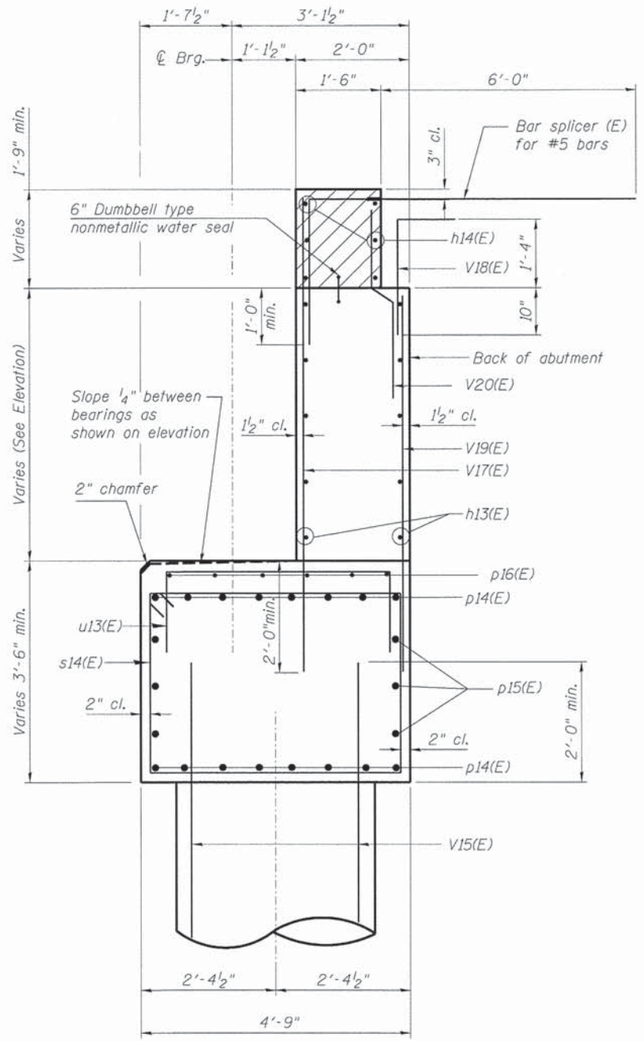


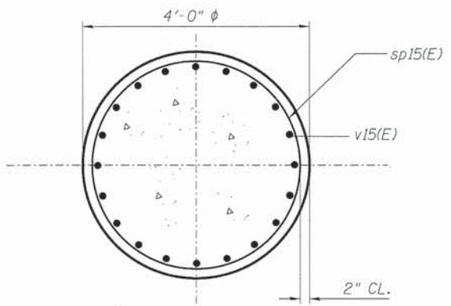
SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)

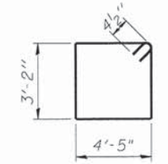


SECTION A-A

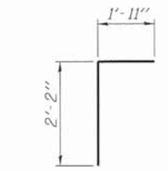
Shown Reinforcement



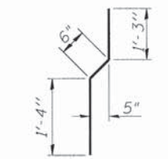
SECTION B-B



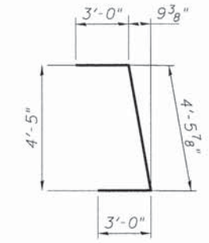
BARS s14(E)



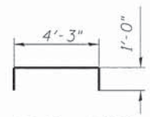
BAR v18(E)



BAR v20(E)



BAR u14E)



BAR u13(E)

SOUTH ABUTMENT BILL OF MATERIAL

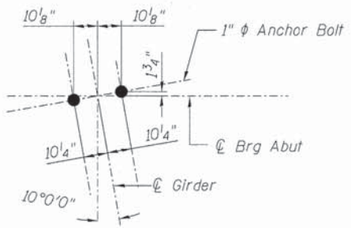
	Bar	No.	Size	Length	Shape
	h13(E)	20	#6	36'-0"	
	h14(E)	6	#5	35'-10"	
	h15(E)	24	#6	4'-6"	
	p14(E)	32	#7	36'-6"	
	p15(E)	12	#6	35'-10"	
	p16(E)	6	#5	13'-2"	
	s14(E)	56	#4	15'-11	
**	sp15(E)	4	#4	22'-5"	
	u13(E)	14	#5	6'-3"	
	u14(E)	12	#6	10'-6"	
	v15(E)	80	#10	22'-5"	
	v17(E)	67	#6	7'-4"	
	v18(E)	67	#5	4'-1"	
	v19(E)	67	#6	5'-7"	
	v20(E)	67	#5	3'-1"	
	Concrete Structures			Cu. Yd.	104
	Reinforcement Bars, Epoxy Coated			Pound	16,000
	Bar Splicers			Each	67
	Temporary Casting			Foot	180
	Concrete Sealer			Sq. Ft.	683
	MSE Wall (Abut)			Sq. Ft.	1810
	Structure Excavation			Cu. Yd.	75

For details of piles and Concrete Encasement, see sheet S36.

** Minimum lap for spirals =1'-8" Length is height of spiral.

Notes:
Pour steps Monolithically with Cap.
Concrete Sealer shall be applied to exposed surfaces of Backwall, Cap Seat, and Front of Cap Seat.

Note:
Reinforced MSE fill shall be placed behind the MSE Abutment after the superstructure has been poured and falsework removed.



ANCHOR BOLTS LAYOUT

Globetrotters Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 162 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	162
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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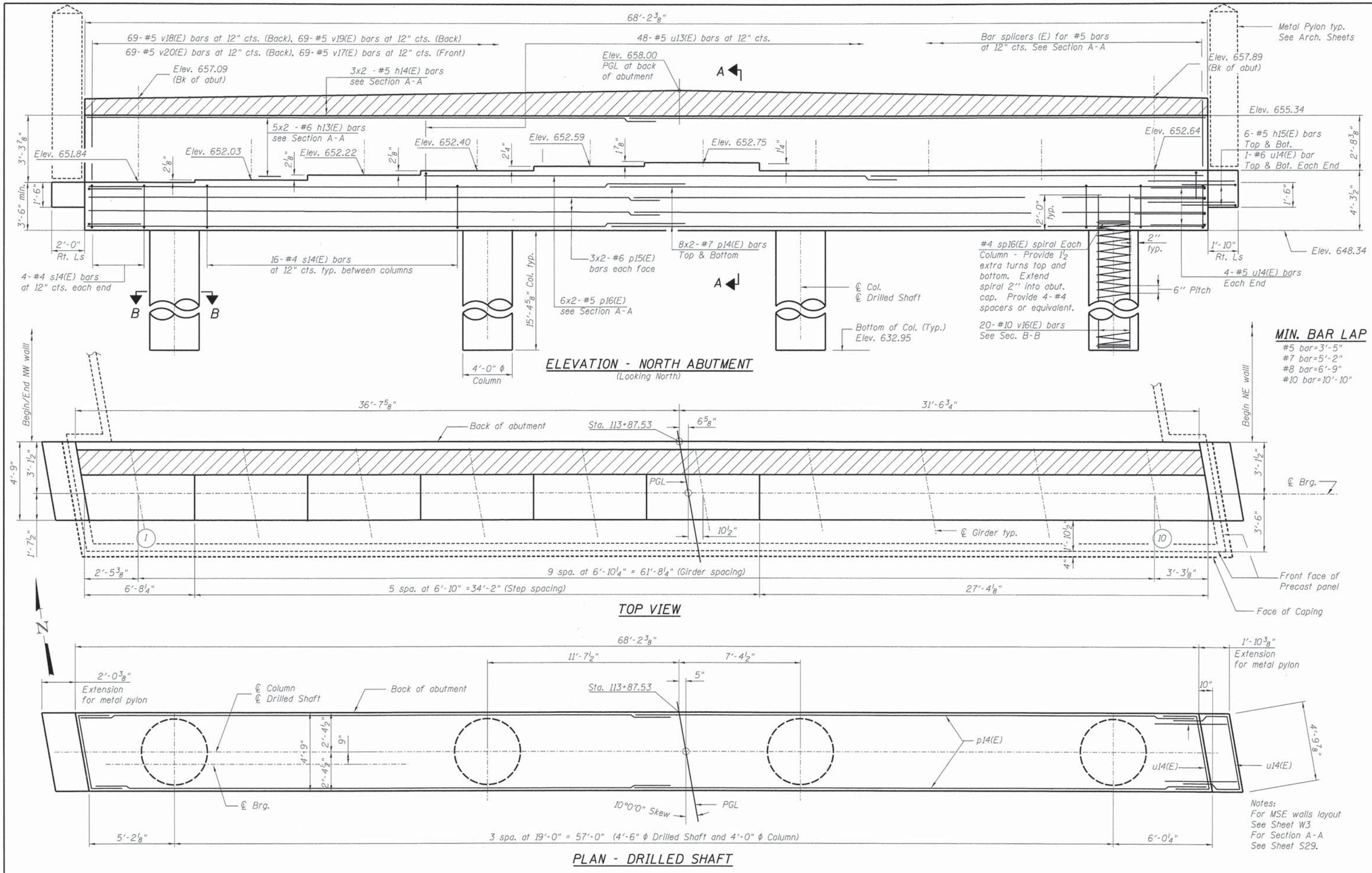

Notes:
For MSE walls layout See Sheet W3
For Section A-A See Sheet S29.

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

Globetrotters Engineering Corporation

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 016-6351
SHEET NO. 163 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	163
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

S28

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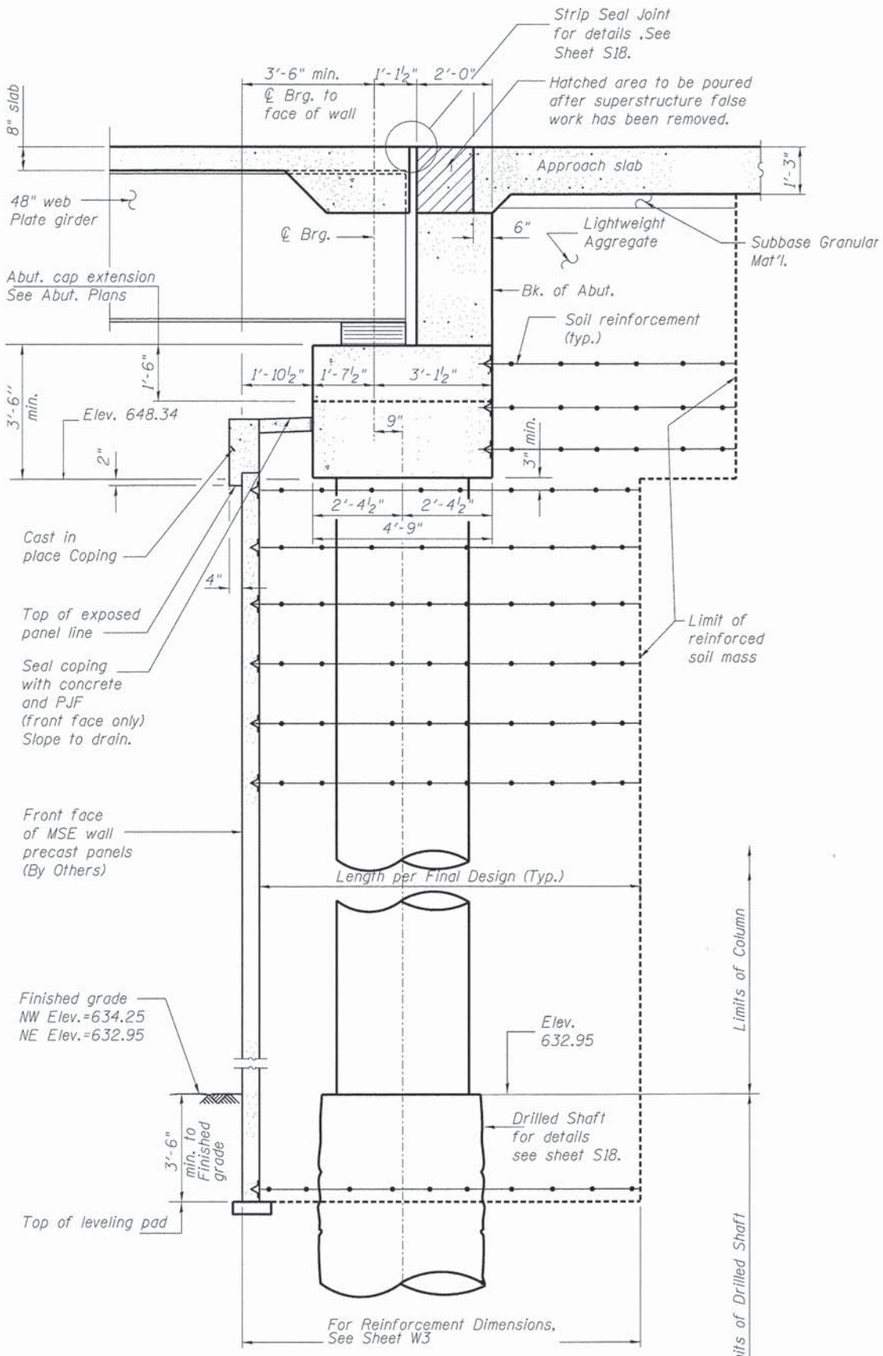
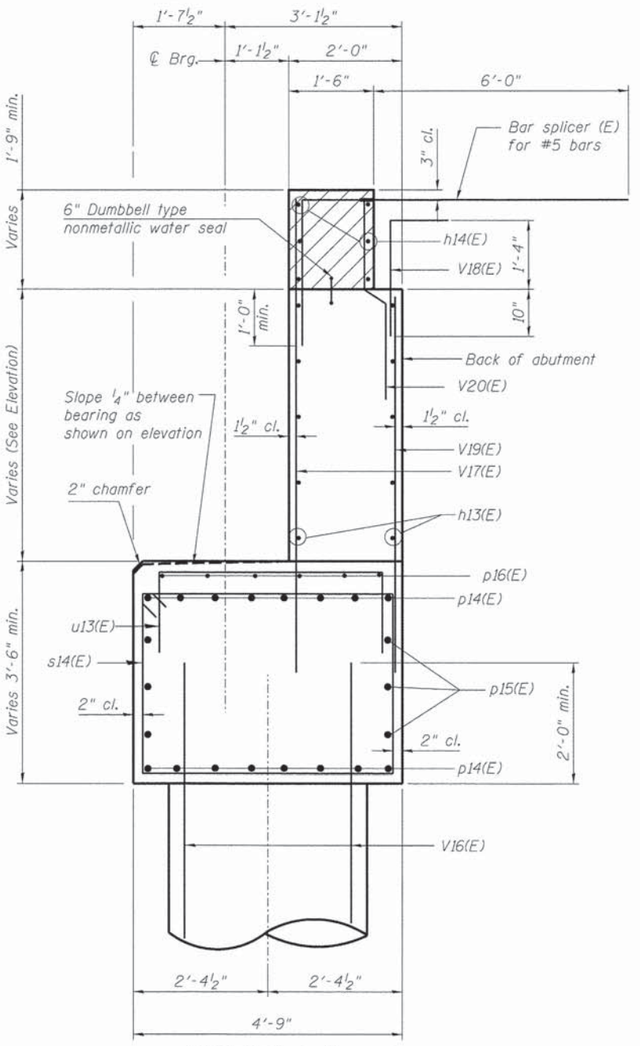


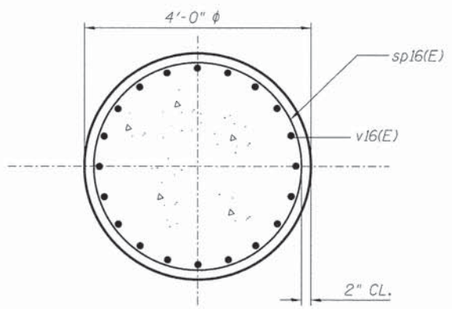
SECTION THRU ABUTMENT

(Horiz. dim. ℄ Rt. L's)

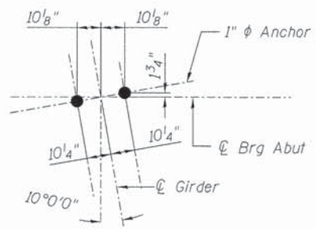


SECTION A-A

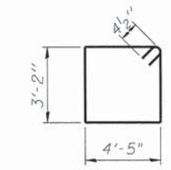
Shown Reinforcement



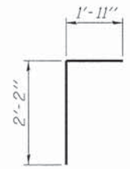
SECTION B-B



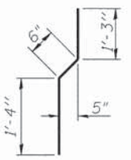
ANCHOR BOLTS LAYOUT



BARS s14(E)



BAR v18(E)



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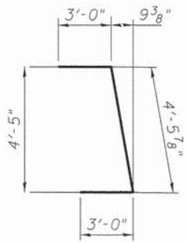
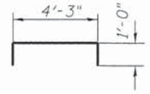


BAR u14E)



BAR u13(E)

NORTH ABUTMENT BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h13(E)	20	#6	36'-0"	
	h14(E)	6	#5	35'-10"	
	h15(E)	24	#6	4'-6"	
	p14(E)	32	#7	36'-6"	
	p15(E)	12	#6	35'-10"	
	p16(E)	12	#5	25'-7"	
	s14(E)	56	#4	15'-11	
**	sp16(E)	4	#4	17'-7"	
	u13(E)	48	#5	6'-3"	
	u14(E)	12	#6	10'-10"	
	v16(E)	80	#10	17'-6"	
	v17(E)	67	#6	7'-4"	
	v18(E)	67	#5	4'-1"	
	v19(E)	67	#6	5'-7"	
	v20(E)	67	#5	3'-1"	
	Concrete Structures		Cu. Yd.	105	
	Reinforcement Bars, Epoxy Coated		Pound	15,700	
	Drilled Shaft		Cu. Yd.	65	
	Bar Splices		Each	67	
	Temporary Casing		Foot	140	
	Concrete Sealer		Sq. Ft.	683	
	MSE Wall Abut		Sq. Ft.	1551	
	Structure Excavation		Cu. Yd.	75	

For details of piles and Concrete Encasement, see sheet S36.

** Minimum lap for spirals =1'-8"
Length is height of spiral.

Notes:
Pour steps Monolithically with Cap.
Concrete Sealer shall be applied to exposed surfaces of Backwall, Cap Seat, and Front of Cap Seat.

Note:
Reinforced MSE fill shall be placed behind the MSE Abutment after the superstructure has been poured and falsework removed.

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 164 OF 240 SHEETS

S29

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	164
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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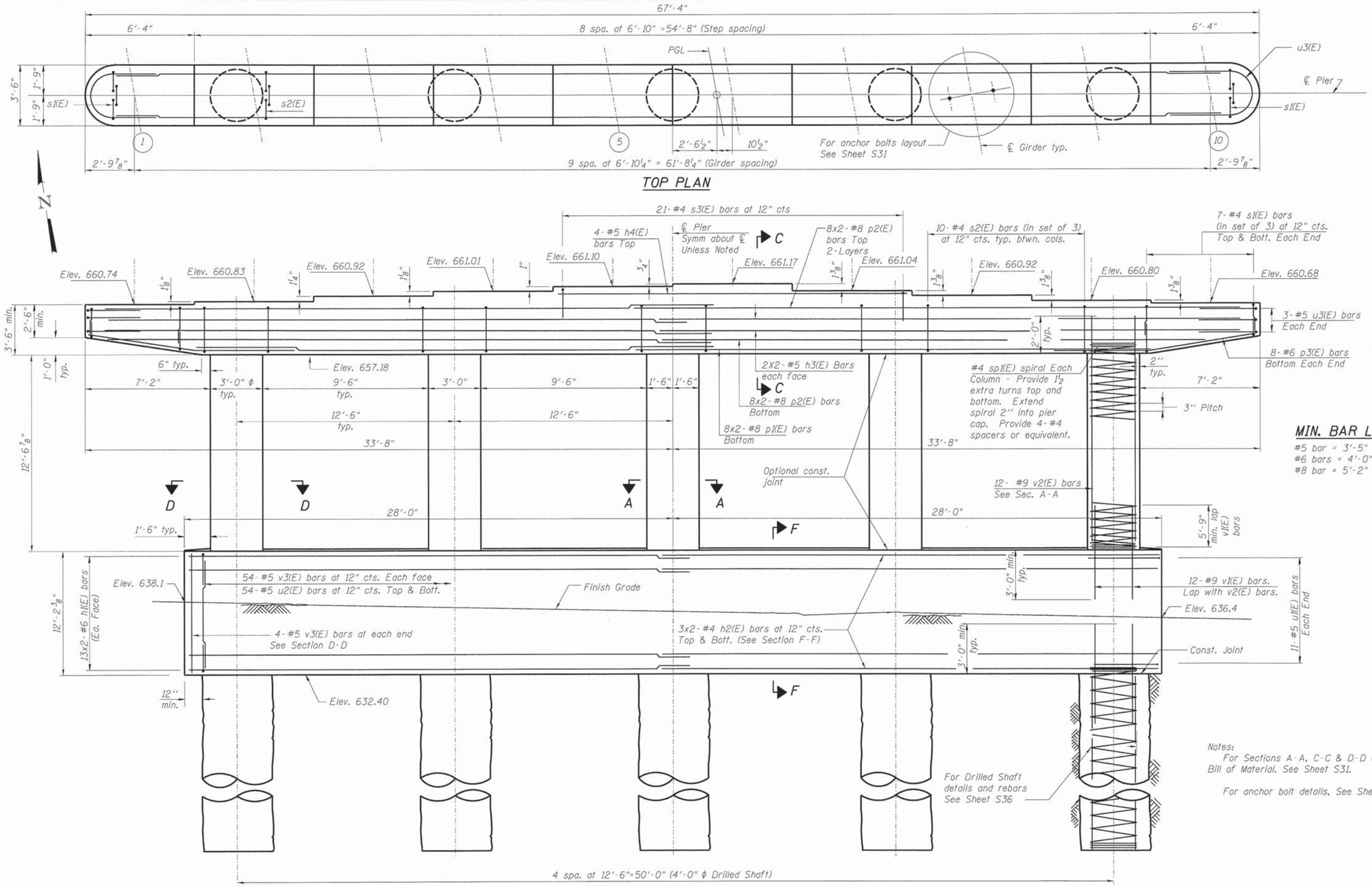

ELEVATION
(Looking North)

MIN. BAR LAP
#5 bar = 3'-5"
#6 bars = 4'-0"
#8 bar = 5'-2"

Notes:
For Sections A-A, C-C & D-D and Bill of Material. See Sheet S31.

For anchor bolt details, See Sheet S24.

Globetrotters Engineering Corporation	USER NAME = mohammed.ali	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 016-6351
SHEET NO. 165 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	165
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

S30

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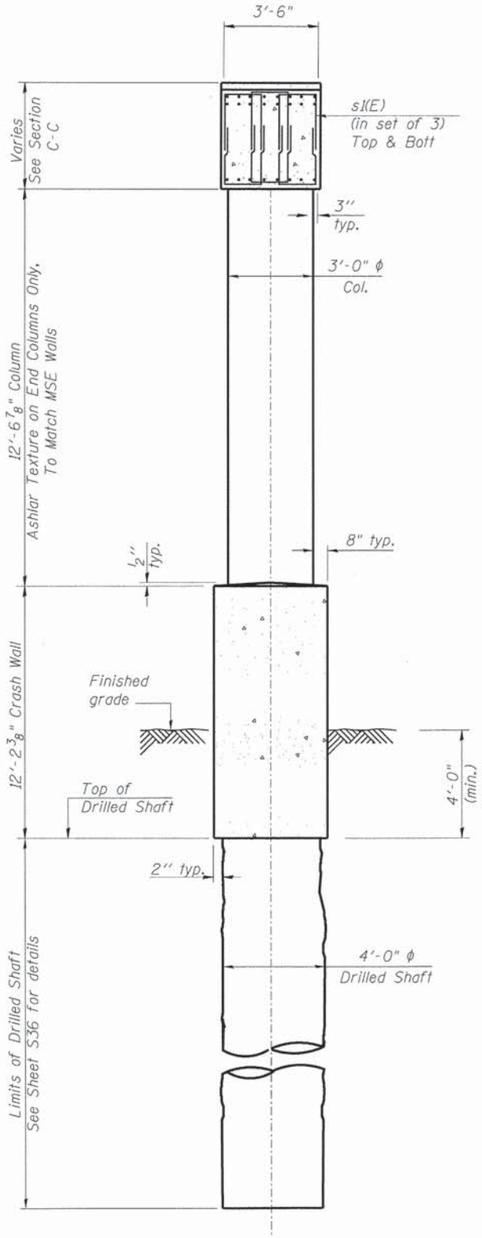
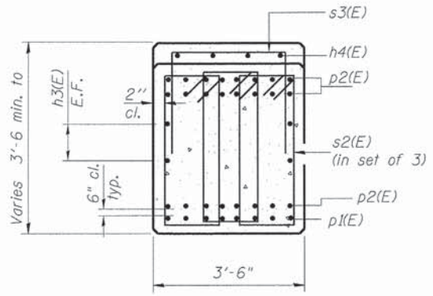
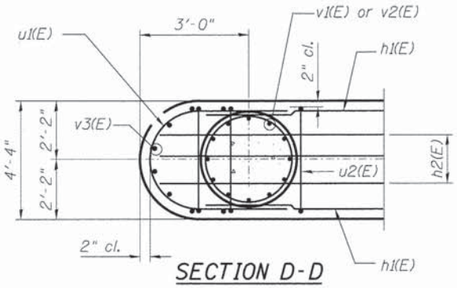


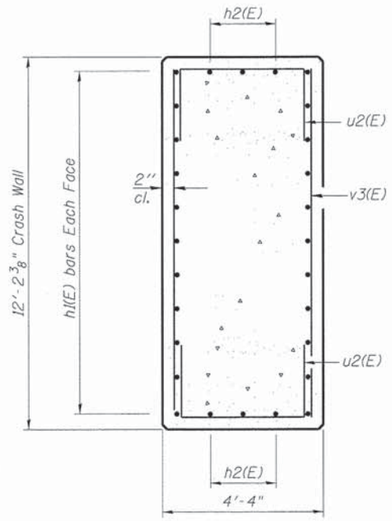
END VIEW



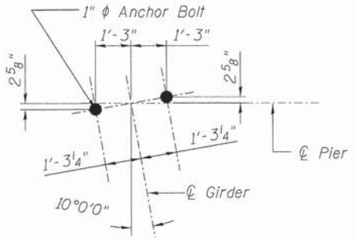
SECTION C-C



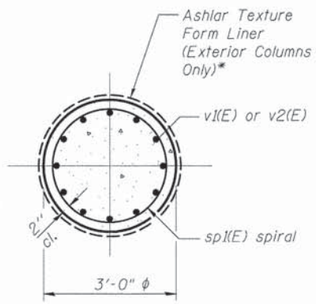
SECTION D-D



SECTION F-F

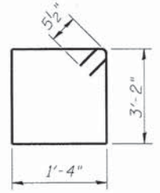


ANCHOR BOLTS LAYOUT

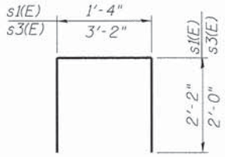


SECTION A-A

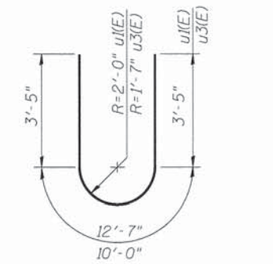
*NOTE:
Ashlar Texture Form Liner Shall Be Included In Payment With Concrete Structures



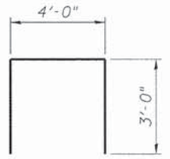
BAR s2(E)



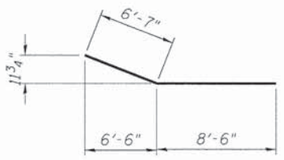
BARs s1(E) & S3(E)



BARS u1(E) and u3(E)



BAR U2(E)



BAR p3(E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h1(E)	52	#6	29'-10"	
	h2(E)	12	#4	29'-3"	
	h3(E)	8	#5	33'-3"	
	h4(E)	4	#5	20'-3"	
	p1(E)	16	#8	29'-1"	
	p2(E)	48	#8	34'-3"	
	p3(E)	16	#6	15'-1"	
	s1(E)	84	#4	5'-8"	
	s2(E)	120	#4	9'-11"	
	s3(E)	21	#5	7'-2"	
**	sp1(E)	5	#4	14'-0"	
	u1(E)	22	#5	19'-5"	
	u2(E)	108	#5	10'-0"	
	u3(E)	6	#5	16'-10"	
	v1(E)	60	#9	8'-9"	
	v2(E)	60	#9	14'-5"	
	v3(E)	116	#5	11'-10"	
	Concrete Structures			Cu. Yd.	159
	Reinforcement Bars, Epoxy Coated			Pound	19,700
	Drilled Shaft in Soil			Cu. Yd.	105
	Struct. Excavation			Cu. Yd.	77

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
**Length is height of spiral.

Globetrotters® Engineering Corporation

USER NAME = mohammed.ali	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 166 OF 240 SHEETS

S31

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	166
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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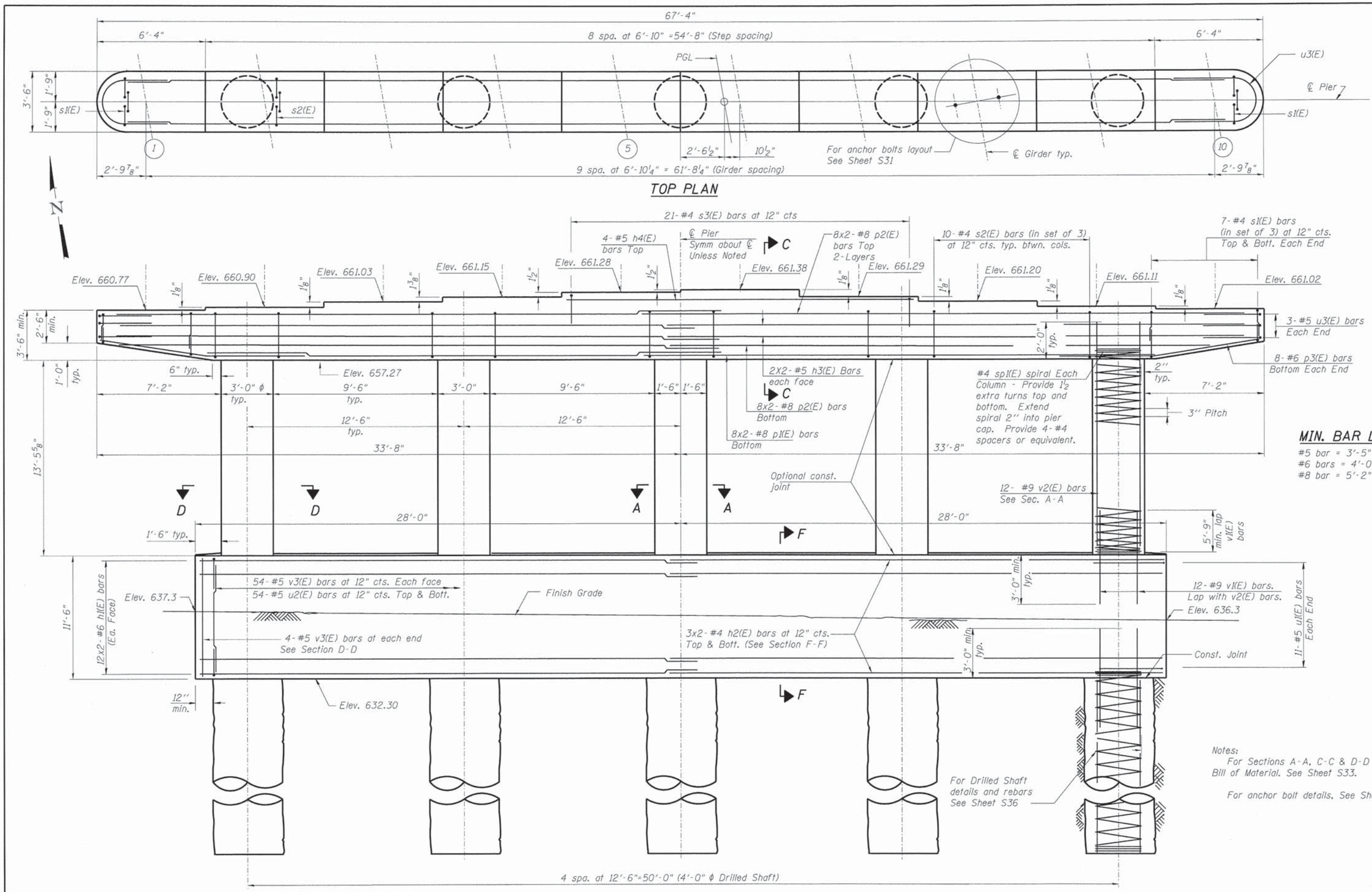

ELEVATION
(Looking North)

MIN. BAR LAP

#5 bar = 3'-5"
#6 bars = 4'-0"
#8 bar = 5'-2"

Notes:
For Sections A-A, C-C & D-D and Bill of Material. See Sheet S33.

For anchor bolt details, See Sheet S24.

S32

Globetrotters® Engineering Corporation	USER NAME = mohammed.ali	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 016-6351
SHEET NO. 167 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	167
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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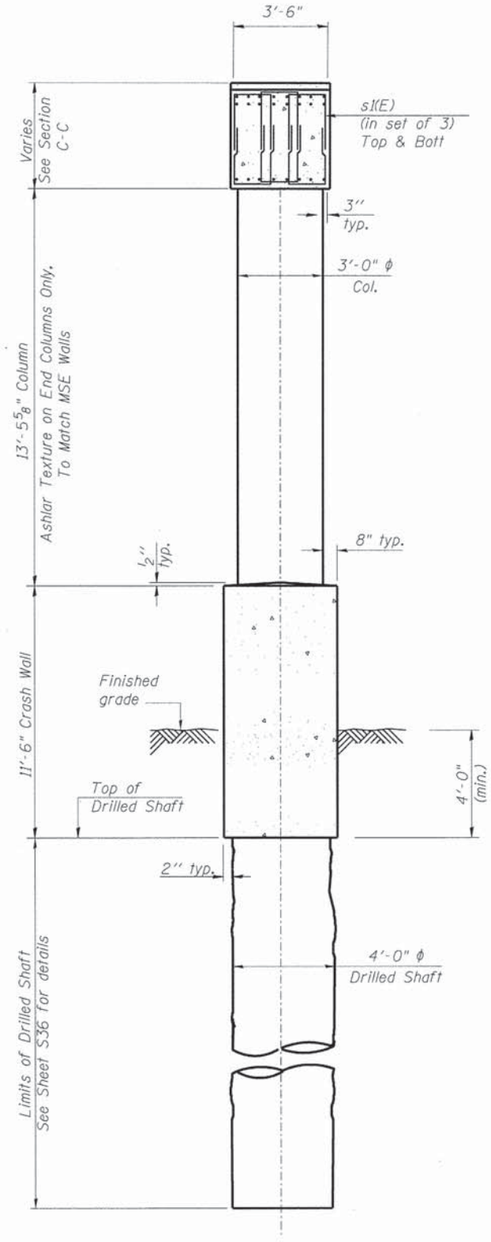
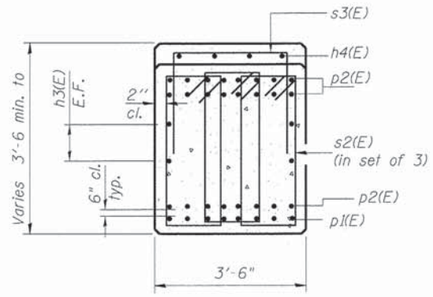
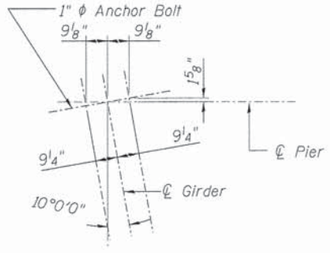


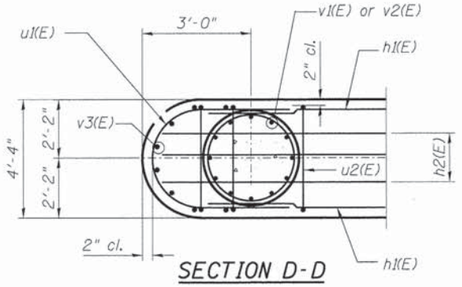
END VIEW



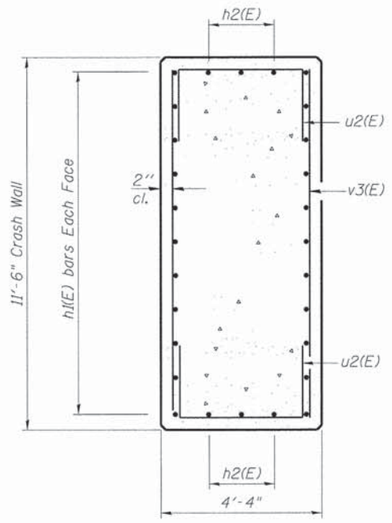
SECTION C-C



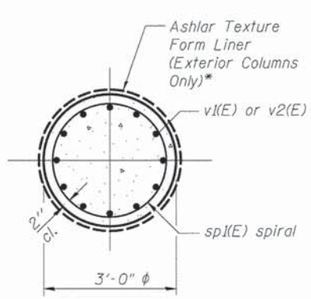
ANCHOR BOLTS LAYOUT



SECTION D-D

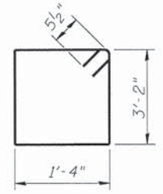


SECTION F-F

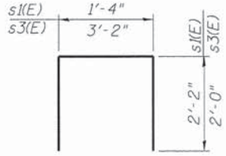


SECTION A-A

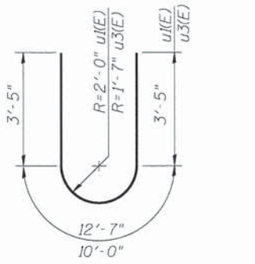
*NOTE:
Ashlar Texture Form Liner Shall Be Included In Payment With Concrete Structures



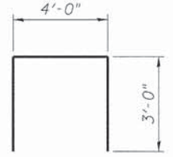
BAR s2(E)



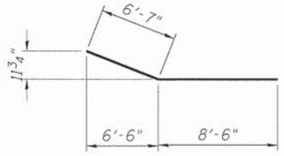
BARs s1(E) & S3(E)



BARS u1(E) and u3(E)



BAR U2(E)

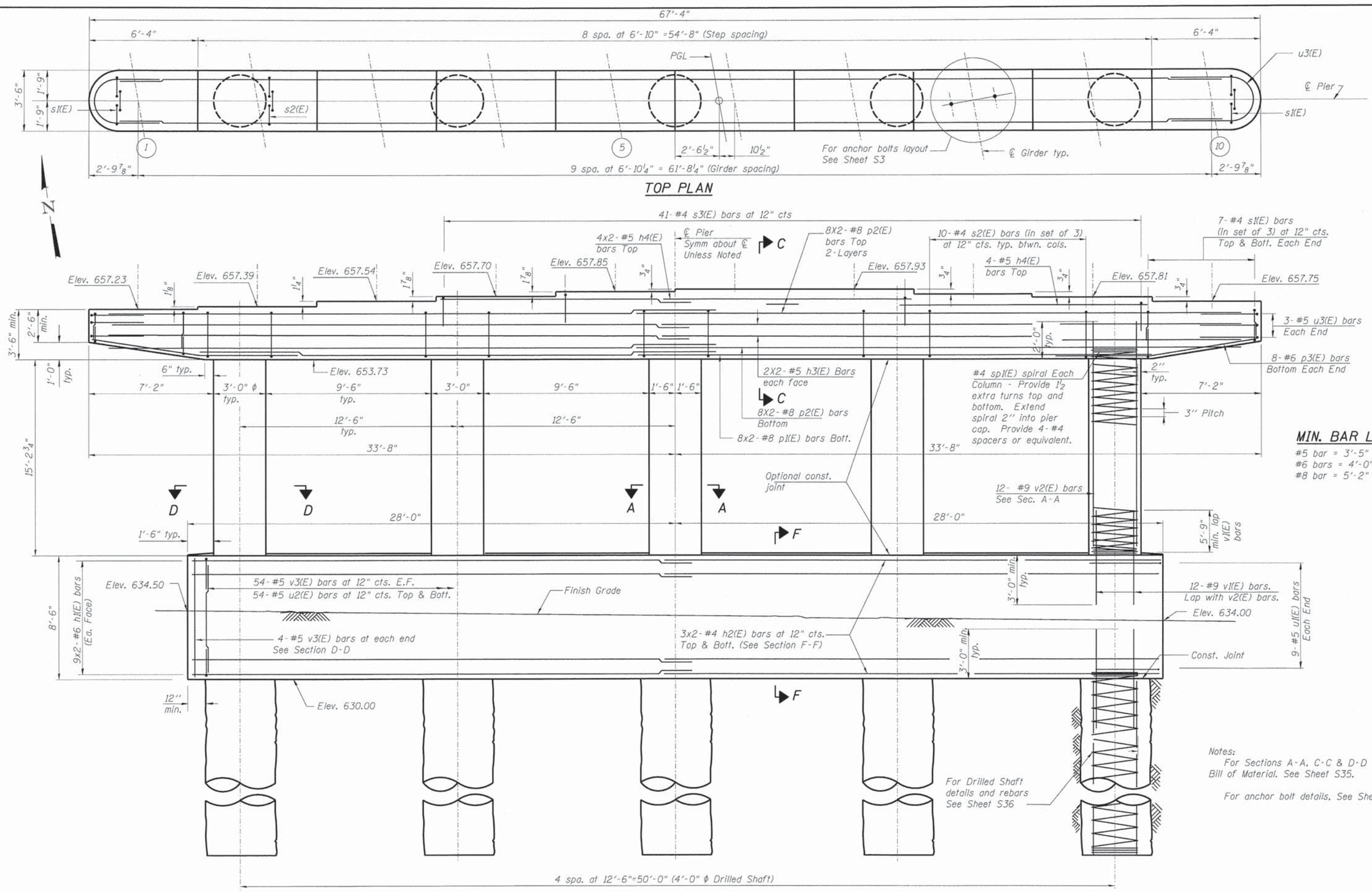


BAR p3(E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h1(E)	48	#6	29'-10"	—
	h2(E)	12	#4	29'-3"	—
	h3(E)	8	#5	35'-4"	—
	h4(E)	4	#5	20'-3"	—
	p1(E)	16	#8	36'-3"	—
	p2(E)	48	#8	31'-9"	—
	p3(E)	16	#6	15'-1"	⌒
	s1(E)	84	#4	5'-8"	⊔
	s2(E)	120	#4	9'-11"	□
	s3(E)	21	#5	7'-2"	⊔
**	sp1(E)	5	#4	10'-5"	∿∿
	u1(E)	22	#5	19'-5"	⊔⊔
	u2(E)	108	#5	10'-0"	⊔⊔
	u3(E)	6	#5	16'-0"	⊔⊔
	v1(E)	60	#9	8'-9"	—
	v2(E)	60	#9	15'-4"	—
	v3(E)	116	#5	11'-2"	—
	Concrete Structures			Cu. Yd.	154
	Reinforcement Bars, Epoxy Coated			Pound	19,200
	Drilled Shaft in Soil			Cu. Yd.	128
	Struct. Excavation			Cu. Yd.	73

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
**Length is height of spiral.



ELEVATION
(Looking North)

MIN. BAR LAP

#5 bar = 3'-5"
#6 bars = 4'-0"
#8 bar = 5'-2"

Notes:
For Sections A-A, C-C & D-D and Bill of Material. See Sheet S35.

For anchor bolt details, See Sheet S25.

Globetrotters® Engineering Corporation	USER NAME = mohammed.ali	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 7/31/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3
STRUCTURE NO. 016-6351
SHEET NO. 169 OF 240 SHEETS

S34

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	169

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT

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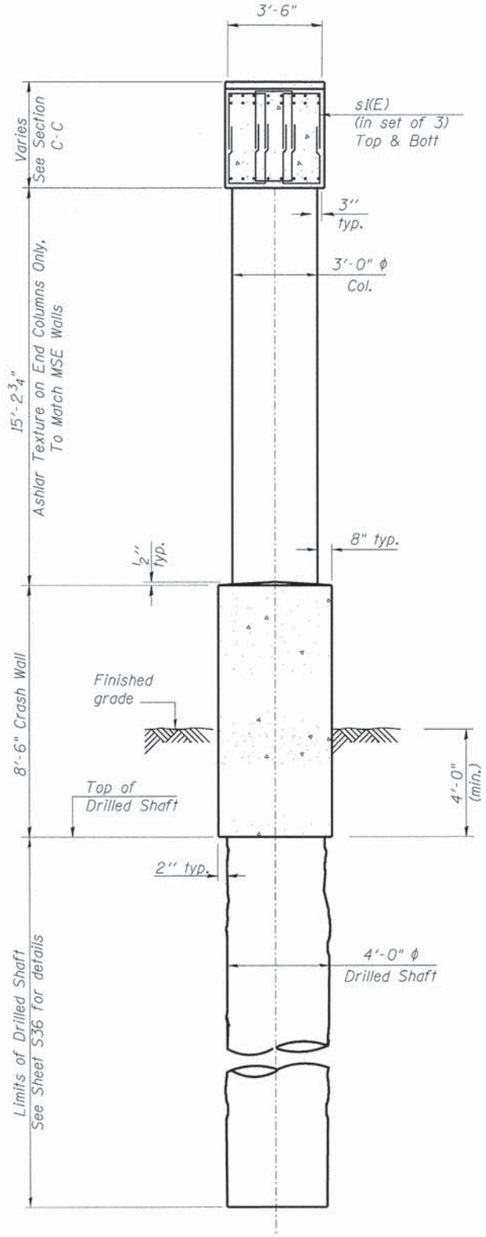
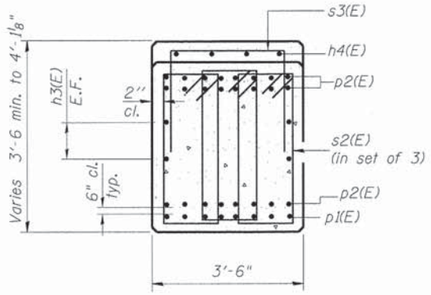
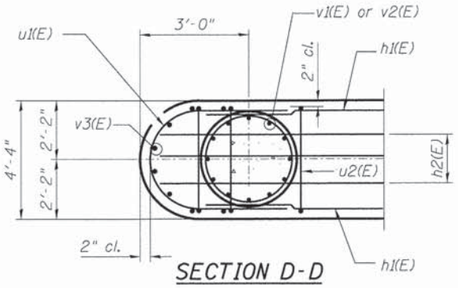


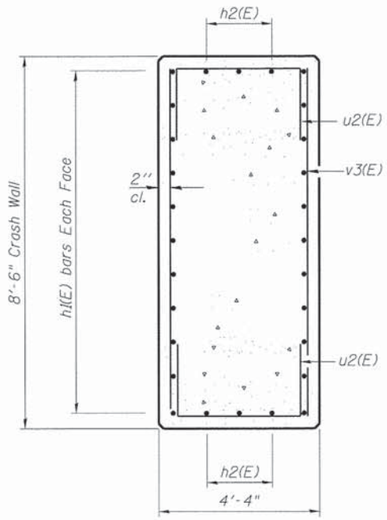
END VIEW



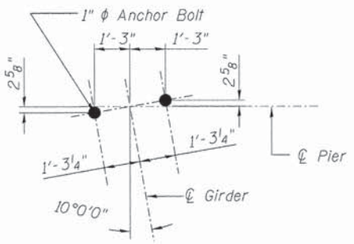
SECTION C-C



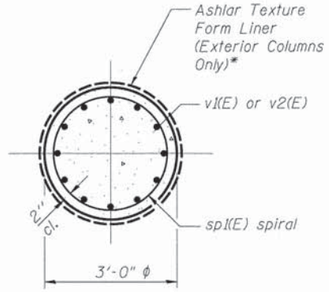
SECTION D-D



SECTION F-F

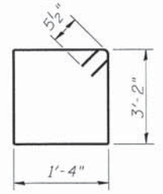


ANCHOR BOLTS LAYOUT

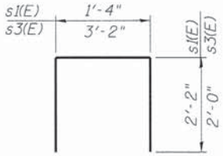


SECTION A-A

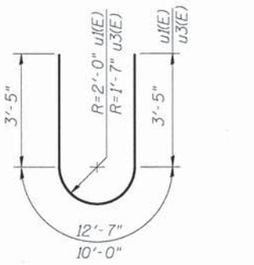
*NOTE:
Ashlar Texture Form Liner Shall Be Included In Payment With Concrete Structures



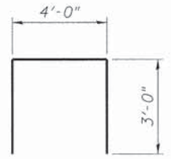
BAR s2(E)



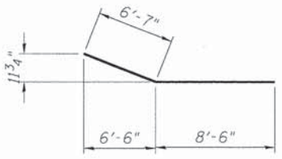
BARs s1(E) & S3(E)



BARS u1(E) and u3(E)



BAR U2(E)

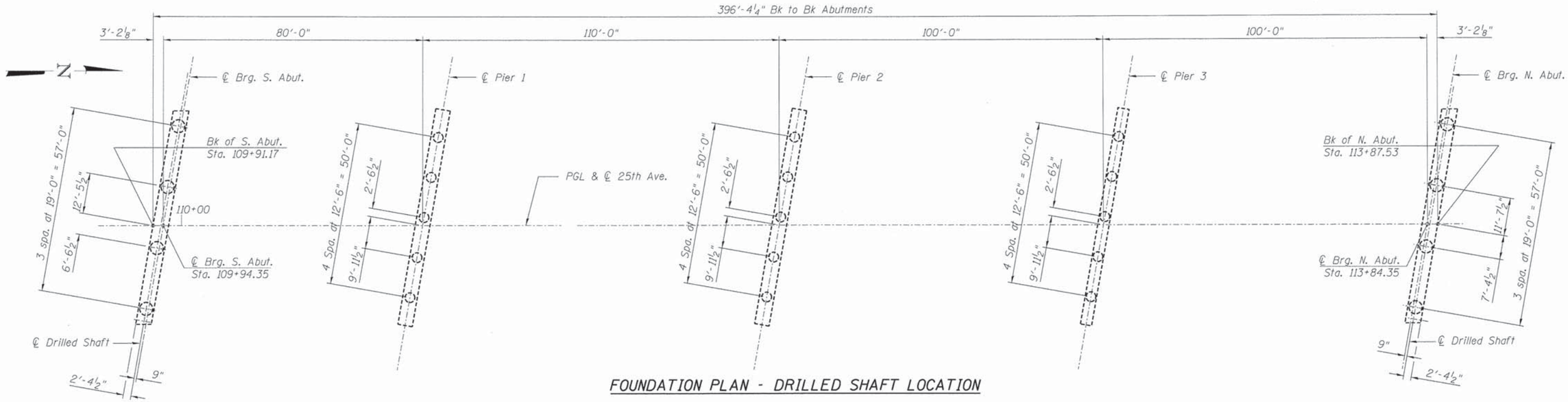


BAR p3(E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h1(E)	36	#6	29'-10"	—
	h2(E)	12	#4	29'-3"	—
	h3(E)	8	#5	33'-4"	—
	h4(E)	12	#5	15'-3"	—
	p1(E)	16	#8	29'-1"	—
	p2(E)	48	#8	34'-3"	—
	p3(E)	16	#6	15'-1"	◺
	s1(E)	84	#4	5'-8"	⊔
	s2(E)	120	#4	9'-11"	⊡
	s3(E)	41	#5	7'-2"	⊔
**	sp1(E)	5	#4	15'-9"	∿∿
	u1(E)	22	#5	19'-5"	⊃⊂
	u2(E)	108	#5	10'-0"	⊃⊂
	u3(E)	6	#5	16'-10"	⊃⊂
	v1(E)	60	#9	8'-9"	—
	v2(E)	60	#9	17'-1"	—
	v3(E)	116	#5	8'-2"	—
	Concrete Structures			Cu. Yd.	130
	Reinforcement Bars, Epoxy Coated			Pound	19,200
	Drilled Shaft in Soil			Cu. Yd.	81
	Struct. Excavation			Cu. Yd.	68

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
**Length is height of spiral.



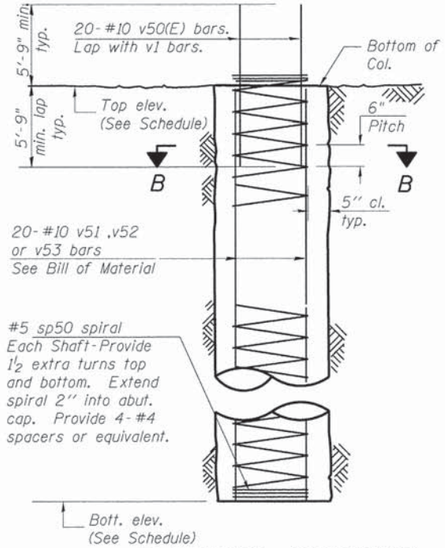
FOUNDATION PLAN - DRILLED SHAFT LOCATION

DRILLED SHAFT - SCHEDULE

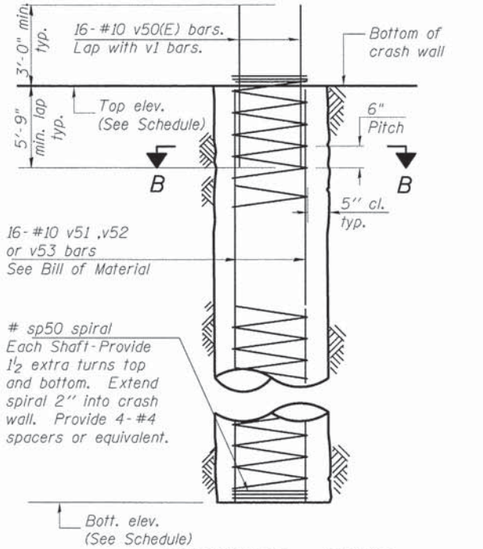
Location	No. Required	Diameter (Inch)	Top Elevation	Bottom Elevation	Length (Ft)	Vertical Bar Size	Bar No. Required
S. Abutment	4	54	634.90	589.90	45	#10	20
Pier 1	5	48	632.40	587.40	45	#10	16
Pier 2	5	48	632.30	577.30	55	#10	16
Pier 3	5	48	630.00	595.00	35	#10	16
N. Abutment	4	54	632.95	597.95	35	#10	20

Location	Axial Capacity (Kip)	Moment Capacity ("/Kip)
Abutment	7590	27900
Pier	7303	27600

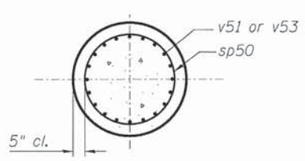
If a portion of drilled shaft concrete encasement is under water, reiinforcement may be placed under water into forms. Concrete shall be tremied according to ARticle 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.



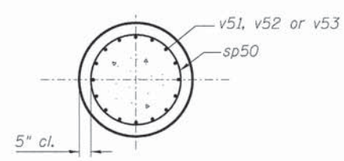
ELEVATION- ABUTMENTS



ELEVATION - PIERS



SECTION B-B



SECTION B-B

BILL OF MATERIAL

LOCATION	Bar	No.	Size	Length	Shape
South Abutment	v50(E)	80	#10	11'-6"	——
	v51	160	#10	25'-9"	——
**	sp50	4	#5	45'-0"	∧∧∧
Pier 1	v50(E)	80	#10	8'-9"	——
	v51	160	#10	25'-9"	——
**	sp50	5	#5	45'-0"	∧∧∧
Pier 2	v50(E)	80	#10	8'-9"	——
	v52	160	#10	30'-9"	——
**	sp50	5	#5	55'-0"	∧∧∧
Pier 3	v50(E)	80	#10	8'-9"	——
	v53	80	#10	34'-8"	——
**	sp50	5	#5	35'-0"	∧∧∧
North Abutment	v50(E)	80	#10	11'-6"	——
	v53	80	#10	34'-8"	——
**	sp50	4	#5	35'-0"	∧∧∧
Reinforcement Bars, Epoxy Coated				Pound	17000
Reinforcement Bars				Pound	81000

** Minimum lap for spirals =1'-10"
Length is height of spiral.

Globetrotters Engineering Corporation

USER NAME = richard.jew	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 7/29/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION PLAN AND DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 170A OF 240 SHEETS

S36

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	170A

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-1B

SHEET 1 OF 4

Project: 25th Avenue Grade Separator		Project No.: 25369005.3000	
Location: Melrose Park/Bellwood, IL	Elevation: 635.38		Boring Location: 0903141.22, 1112076.773
Drilling Company: Earth Solutions	Date Started: 04/17/13		Date Finished: 04/22/13
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 75.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 63.5		Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna		Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Wuxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength* (tsf)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
634	0		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0820.
632	2		(FILL) Dark brown to black CLAYEY SAND, little fine to coarse gravel, dry to moist.	SS-1	2-4	17/24	12 8 10 7	18		NA	0.0	0.0	Collect sample SB-1B from 2-4' bgs at 0830.
630	4		(CL) Light brown and gray SILTY CLAY, soft, high plasticity, trace fine gravel, brown mottling, moist.	SS-2	4-6	12/24	5 4 5 6	9	26.2	1.0	0.0	0.0	
626	6		(CL) Light brown SILTY CLAY, some fine to coarse sand, little fine to coarse gravel, low plasticity, medium stiff, moist.	SS-3	6-8	15/24	2 2 3 2	5	20.9	0.75	0.0	0.0	
624	8		(CL) Brown SANDY CLAY, soft, high plasticity, trace fine gravel, moist.	3T	8-10	30/24							3T: LL: 23; PL: 15; PI: 8.
622	10		(CL) Light brown to gray SILTY CLAY, medium to high plasticity, medium stiff, trace fine gravel, moist.										
620	12		(CL) Brown SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-4	11-13	24/24	4 13 17 27	30	17.2	3.0; 4.9*	0.0	0.0	
	14		(CL) Same as above, gray.	SS-5	13-15	24/24	10 13 10 10	23	16.8	3.5	0.0	0.0	
618							4 4						

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-1B

SHEET 2 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength* (tsf)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
618	18		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-6	15-17	24/24	13 13	17	16.8	3.75	0.0	0.0	
616	20			SS-7	17-19	24/24	4 8 12 14	20	18.1	3.75	0.0	0.0	Pressure testing from 0940 to 1010.
614	22												
612	24		(CL) Gray SILTY CLAY, stiff, very hard, low plasticity, trace fine gravel, moist.	SS-8	23.5-25	13/18	22 44 50 for 4"	>100	10.4	4.5+	0.0	0.0	Resume drilling at 23.5' bgs at 1055.
610	26		(SP) Gray, fine to medium SAND, poorly graded, very dense, dry.										Pressure testing from 35-40' bgs.
608	28			SS-9	28.5-30	14/18	22 28 40	68	3.0	NA	0.0	0.0	
606	30												
604	32		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, hard, low plasticity, moist.	SS-10	33.5-35	14/18	26 17 27	44	10.4	4.0	0.0	0.0	
602	34		(CL) Gray SILTY CLAY, very stiff, trace fine gravel, high plasticity.										

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-1B

SHEET 3 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength* (tsf)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
598	38		(ML) Gray CLAYEY SILT, little fine to coarse sand, trace fine to coarse gravel, very dense, low plasticity, moist.										
596	40			SS-11	38.5-40	14/18	14 30 60 for 5"	>100	13.5	NA	0.0	0.0	
594	42		(ML) Same as above, dry.	SS-12	43.5-45	14/18	33 50 for 5"	>100		NA	0.0	0.0	
592	44												
590	46		(ML) Same as above.	SS-13	48.5-50	12/18	13 23 45	68		NA	0.0	0.0	
588	48												
586	50												
584	52		(ML) Gray CLAYEY SILT, trace fine gravel, dry.	SS-14	53.5-55	9/18	50 for 4"	>100		NA	0.0	0.0	
582	54												
580													

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-6351
SHEET NO. 171 OF 240 SHEETS

S37

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	171
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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URS — LOG OF BORING SB-1B

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

SHEET 4 OF 4

DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
58.5-60		SS-15	58.5-60	11/18	23 / 50 for 5"	>100		NA	0.0	0.0	
63.5-65	(ML) Gray **CLAYEY SILT**, trace fine gravel, wet.	SS-16	63.5-65	10/18	24 / 50 for 5"	>100		NA	0.0	0.0	
68.5-70	(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, moist.	SS-17	68.5-70	21/18	10 / 12 / 23	35		NA	0.0	0.0	
73.5-75	(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, moist.	SS-18	73.5-75	13/18	16 / 50 for 5"	>100		NA	0.0	0.0	

End of boring at 75' bgs at 0955.

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/18/13

URS — LOG OF BORING SB-2B-PSI

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

SHEET 1 OF 4

Project: 25th Avenue Grade Separator	Project No.: 25369006.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 636.86	Boring Location: 1903207.63, 1112012.35	
Drilling Company: Earth Solutions	Date Started: 05/01/13	Date Finished: 05/01/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 75.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 4	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
0-0.5	(ASPHALT) **ASPHALT/GRAVEL.**										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166).
0.5-2	(FILL) Dark brown to black **CLAYEY SAND**, little fine to coarse gravel, dry to moist.	SS-1	0.5-2	17/18	25 / 23 / 20	43		NA	0	0	Begin drilling at 0820.
2-4	(FILL) Dark brown **CLAYEY SAND**, some fine to coarse gravel, moist.	SS-2	2-4	16/24	7 / 7 / 13	20		NA	0	0	Collect sample SB-2b-PSI from 2-4' bgs at 0830.
4-6	(FILL) Dark brown **CLAYEY SAND**, some fine to coarse gravel, trace wood pieces, moist to wet.	SS-3	4-6	9/18	50 for 2"	>100		NA	0	0	
6-8	(CL) Light brown to light gray **CLAY**, trace fine to medium gravel, trace fine to coarse sand, brown mottling, medium stiff, low plasticity, moist.	SS-4	6-8	16/24	4 / 4 / 5	9	24.0	0.75	0	0	
8-10	(CL) Light brown **SILTY CLAY**, little fine to coarse sand, little fine to coarse gravel, medium stiff, low plasticity, moist.	SS-5	8-10	22/20	2 / 6 / 6	12	14.0	1	0	0	
10-12.5	(CL) Brown **SILTY CLAY**, high plasticity, stiff, trace fine gravel, moist.	3T	10-12.5	20/30				3	0	0	3T: LL: 34; PL: 20; PI: 14.
13.5-15	(CL) Gray **SILTY CLAY**, little fine to coarse sand, little fine to coarse gravel, hard, low plasticity, moist.	SS-6	13.5-15	18/18	6 / 7 / 9	16	13.9	4	0	0	

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/18/13

URS — LOG OF BORING SB-2B-PSI

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

SHEET 2 OF 4

DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
16-17.5	(CL) Gray **SILTY CLAY**, little fine to coarse sand, little fine to coarse gravel, hard, low plasticity, moist.	SS-7	16-17.5	20/18	5 / 8 / 14	22	14.5	4	0	0	
18.5-20		SS-8	18.5-20	16/18	4 / 8 / 11	19	16.2	4; 5.7*	0	0	
23.5-25	(ML) Gray **CLAYEY SILT**, little fine to coarse sand, trace fine to coarse gravel, dense, low plasticity, moist to dry.	SS-9	23.5-25	18/18	14 / 15 / 20	35	11.1	NA	0	0	
28.5-30	(ML) Gray **CLAYEY SILT**, moist. (SC) Gray, fine **POORLY GRADED CLAYEY SAND**, wet. (ML) Gray **CLAYEY SILT.**	SS-10	28.5-30	17/16	18 / 37 / 50 for 4"	>100	13.6	NA	0	0	
31.5	(CL) Gray **SILTY CLAY**, trace fine to coarse sand, trace fine gravel, very stiff, low plasticity, moist.										
33.5-35	(CL) Gray **SILTY CLAY**, hard, high plasticity, trace fine gravel.	SS-11	33.5-35	18/18	6 / 10 / 5	15	18.0	4.5+	0	0	

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/18/13

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SOIL BORING LOGS STRUCTURE NO. 016-6351**
		CHECKED - JG	REVISED		
	PLOT SCALE = None	DRAWN - RJ	REVISED		
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		SHEET NO. 172 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	172
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

S38

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URS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-2B-PSI
SHEET 3 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6" / Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
600			(ML) Gray CLAYEY SILT, trace fine to coarse sand, trace medium gravel, medium dense, low plasticity, moist.									
	38											
598				SS-12	38.5-40	18/18	13 14 24	38	12.6	NA	0	0
	40											
596				SS-13	43.5-45	7/18	38 50 for 5"	>100	16.9	NA	0	0
	42											
594												
	44											
592												
	46		Sample dry at 46.5' bgs.									
590				SS-14	48.5-50	15/18	38 50 for 5"	>100	9.0	NA	0	0
	48											
588												
	50											
586			(ML) Gray CLAYEY SILT, dry to moist.									
	52											
584				SS-15	53.5-55	7/18	50 for 5"	>100	16.9	NA	0	0
	54											
582												

URS-CHICAGO GLOBETROTTERS GINT STD US LABSOIT 6/18/13

URS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-2B-PSI
SHEET 4 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6" / Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
580												
	58											
578			(ML) Gray CLAYEY SILT, trace fine gravel, dry.	SS-16	58.5-60	6/18	50 for 5"	>100	14.2	NA	0	0
	60											
576												
	62											
574			(ML) Same as above, moist.	SS-17	63.5-65	5/18	50 for 4"	>100	18.5	NA	0	0
	64											
572												
	66		(ML) SILT, trace fine sand, very dense, wet.									
570												
	68			SS-18	68.5-70	8/18	43 50 for 4"	>100	20.1	NA	0	0
568												
	70											
566			(ML) CLAYEY SILT, trace fine gravel, wet.									
	72											
564			Higher sand content, little fine to coarse sand at 73.5' bgs.	SS-19	73.5-42	16/18	37 50 for 5"	>100	9.1	NA	0	0
	74											
562			End of boring at 75' bgs at 1110.									

URS-CHICAGO GLOBETROTTERS GINT STD US LABSOIT 6/18/13

URS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3B
SHEET 1 OF 4

Project: 25th Avenue Grade Separator	Project No.: 26369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 636.66	Boring Location: 1603313.85, 1112109.45	
Drilling Company: Earth Solutions	Date Started: 05/03/13	Date Finished: 05/03/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 75.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 4	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junoluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6" / Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
636			(ASPHALT).									*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0815.
	2		(FILL) Brown to dark brown, fine to coarse CLAYEY GRAVEL AND SAND, dry.									
634				SS-1	2-4	10/24	20 6 4 5 10		NA	0.0	0.0	
	▽4		(FILL) Dark brown CLAYEY SAND AND GRAVEL, moist to wet.	SS-2	4-6	13/24	4 2 2 2 4	36.8	NA	0.0	0.0	
632			(ML) Dark brown CLAYEY SILT, moist.									
	6		(CL) Olive gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, soft, low plasticity, moist.	SS-3	6-8	14/24	1 1 1 1 2	34.0	0.5	0.0	0.0	SS-3: LL: 39; PL: 16; PI: 23.
630												
	8		(CL) Olive green SILTY CLAY, medium stiff, high plasticity, trace fine gravel, light brown mottling, moist.	SS-4	8-10	16/24	3 2 2 4 4	16.7	1.0	0.0	0.0	
628												
	10		(CL) Gray SILTY CLAY, hard, high plasticity, trace fine gravel, brown mottling, moist.	ST	10-12.5	30/30			4.5+	0.0	0.0	Shelby tube collected from 10-12.5' bgs.
626			(CL) Light brown SILTY CLAY, soft to very stiff, high plasticity, trace fine to medium gravel, moist.	SS-5	11-12.5	16/16	3 10 14	24	15.0	3.75	0.0	0.0	ST: LL: 35; PL: 16; PI: 19.
	12											
624												
	14		(CL) Gray SILTY CLAY, stiff, high plasticity, trace fine gravel, moist.	SS-6	13.5-15	18/18	4 7 8	15	16.1	4.0	0.0	0.0	
622												

URS-CHICAGO GLOBETROTTERS GINT STD US LABSOIT 6/18/13

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351		S39
		CHECKED - JG	REVISED			F.A.U RTE. 2714	SECTION 99-00094-00-GS
	PLOT SCALE = None	DRAWN - RJ	REVISED				COUNTY COOK
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		SHEET NO. 173 OF 240 SHEETS		TOTAL SHEETS 240
							SHEET NO. 173
							CONTRACT NO. 63887
							ILLINOIS FED. AID PROJECT

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URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3B
SHEET 2 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (tsf)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
620	18		(CL) Gray **SILTY CLAY**, hard, high plasticity, trace fine gravel, brown mottling, moist.	SS-2	16-17.5	18/18	4 6 11	17	16.8	4.0	0.0	0.0	
618	20		(CL) Gray **SILTY CLAY**, stiff, high plasticity, trace fine gravel, moist.	SS-3	18.5-20	18/18	5 8 12	20	17.5	3.0	0.0	0.0	
616	22		(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, moist.										
614	24			SS-4	23.5-25	17/18	13 25 30	55	11.7	NA	0.0	0.0	
612	26												
610	28			SS-6	28.5-30	18/18	17 38 28	66	7.0	NA	0.0	0.0	
608	30		(SP) Gray, fine to medium **POORLY GRADED SAND**, dry. (ML) Gray **CLAYEY SILT**, dry.										
606	32		(CL) Gray **SILTY CLAY**, medium plasticity, hard, trace fine to medium gravel, dry.										
604	34			SS-7	33.5-35	18/18	8 5 20	25	13.5	4.5+	0.0	0.0	
602													

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3B
SHEET 3 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (tsf)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
600	38		(CL) Gray **SILTY CLAY**, medium stiff, high plasticity, trace fine to medium gravel, moist.	SS-8	38.5-40	18/18	15 25 30	55	16.9	3.5	0.0	0.0	
598	40												
596	42		(ML) Gray **CLAYEY SILT**, trace fine gravel, moist to very moist.										
594	44			SS-9	43.5-45	14/18	37 50 for 4"	>100	18.6	NA	0.0	0.0	
592	46												
590	48			SS-10	48.5-50	18/18	24 27 30	57	10.2	NA	0.0	0.0	
588	50		(ML) Gray **CLAYEY SILT**, trace fine gravel, dry.										
586	52												
584	54		(ML) Gray **CLAYEY SILT**, trace fine gravel, dry.	SS-11	53.5-55	18/18	12 12 34	46	11.5	NA	0.0	0.0	
582													

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3B
SHEET 4 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (tsf)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
580	58		(ML) Gray **CLAYEY SILT**, trace fine gravel, dry.	SS-12	58.5-60	12/18	48 50 for 4"	>100	15.9	NA	0.0	0.0	
578	60												
576	62		(ML) Same as above, wet.	SS-13	63.5-65	10/18	43 50 for 3"	>100	18.5	NA	0.0	0.0	
574	64												
572	66												
570	68		(SP) Fine to medium **POORLY GRADED SAND.**										
568	70		(ML) Gray **CLAYEY SILT**, dry.	SS-14	68.5-70	16/18	38 39 45	84		NA	0.0	0.0	
566	72												
564	74		(ML) Gray **CLAYEY SILT**, trace fine gravel, dry.	SS-15	73.5-75	8/18	50 for 3"	>100	10.9	NA	0.0	0.0	
562			End of boring at 75' bgs at 1110.										

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-4B-PSI
SHEET 1 OF 4

Project: 25th Avenue Grade Separator	Project No.: 25389005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 634.36	Boring Location: 1903423.49, 1112066.05	
Drilling Company: Earth Solutions	Date Started: 04/29/13	Date Finished: 04/29/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): 7	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 75.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 43.5	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
634		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0845.
632	2	(FILL) Dark gray CLAY, stiff, medium plasticity, some fine to coarse gravel, dry to moist.	SS-1	2-4	15/24	4 6 6 8	12	6.8	3.0	0.0	0.0	Collect sample SB-4B-PSI from 2-4' bgs at 0855.
630	4	Gray concrete pieces at 4' bgs. (FILL) Brown and gray SILTY CLAY, little fine to medium gravel, little fine to coarse sand, low plasticity, stiff, moist.	SS-2	4-6	14/24	7 5 5 5	10	18.2	1.75	0.0	0.0	
628	6	(FILL) Brown, fine to medium CLAYEY SAND, poorly graded, loose, wet.	SS-3	6-8	17/24	1 2 1 5	3		NA	0.0	0.0	
626	8	(CH) Brown CLAY, high plasticity, medium stiff, trace fine to medium gravel, moist.	SS-4	8-10	17/24	4 6 8 13	14	20.1	3.5; 3.3*	0.0	0.0	
624	10	(CL) Brown SILTY CLAY, some fine to coarse sand, little fine to coarse gravel, hard, low plasticity, moist.	SS-5	10-12	21/24	8 4 20 23	24	17.9	4.0	0.0	0.0	
622	12	(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, hard, low plasticity, wet.	SS-6	12-14	22/24	8 10 15 20	25	15.0	4.5	0.0	0.0	
620	14		3T	14-16.5	20/30				3.5	0.0	0.0	3T; LL: 31; PL: 16; PI: 15.

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/18/13

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CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-4B-PSI
SHEET 2 OF 4

ELEV	DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
618		(ML) Gray CLAYEY SILT, some fine to coarse sand, little fine to coarse gravel, medium dense, low plasticity, moist.										
616	18		SS-7	17-19	22/24	4 5 8 10	13	10.3	3.0	0.0	0.0	
614	20	(ML) Gray CLAYEY SILT, trace fine to medium gravel, dry. (SC) Gray, fine CLAYEY SAND, very moist. (ML) Gray CLAYEY SILT, little fine to coarse sand, little fine to coarse gravel, dense to very dense, low plasticity, dry.	SS-8	19-21	17/24	8 14 19 20	33	12.7	NA	0.0	0.0	Pressure testing from 19-23' bgs from 0955 to 1040. Resume drilling at 1055.
612	22											
610	24	(ML) Gray CLAYEY SILT, trace fine to medium gravel, moist.	SS-9	23.5-25	15/18	19 27 50	77		NA	0.0	0.0	
608	26											
606	28	No recovery from 28.5-30' bgs.	SS-10	28.5-30	0/18	16 20 21	41		NA	0.0	0.0	
604	30											
602	32											
600	34	(ML) Gray CLAYEY SILT, trace fine to medium gravel, dry.	SS-11	33.5-35	14/18	21 40 40	80	11.4	NA	0.0	0.0	

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/18/13

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-4B-PSI
SHEET 3 OF 4

ELEV	DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
598												
596	38	(ML) Gray CLAYEY SILT, trace fine to medium gravel, dry.	SS-12	38.5-40	14/18	40 50 for 3"	>100	13.4	NA	0.0	0.0	
594	40											
592	42											
590	44	(ML) Gray CLAYEY SILT, wet. Seam of gray fine to coarse gravel from 44.7-45' bgs.	SS-13	43.5-45	6/18	31 50 for 5"	>100	13.9	NA	0.0	0.0	
588	46											
586	48	(ML) Gray CLAYEY SILT, trace fine to medium gravel.	SS-14	48.5-50	17/18	13 27 30	57	17.5	NA	0.0	0.0	
584	50											
582	52											
580	54	(ML) Gray CLAYEY SILT, trace fine to medium gravel.	SS-15	53.5-55	4/18	50 for 5"	>100	15.3	NA	0.0	0.0	

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/18/13

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351
		CHECKED - JG	REVISED		
	PLOT SCALE = None	DRAWN - RJ	REVISED		
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		SHEET NO. 175 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	175
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

S41

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-4B-PSI

SHEET 4 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Pocketpen. Resistance, tsf	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
578													
	58												
576			(ML) Gray CLAYEY SILT, trace fine to medium gravel, moist.	SS-16	58.5-60	11/18	49 50 4.5" for	>100		NA	0.0	0.0	
	60												
574													
	62												
572			(ML) Gray CLAYEY SILT, trace fine gravel, very moist.	SS-17	63.5-65	15/18	38 41 50 for 4"	>100		NA	0.0	0.0	
	64												
570													
	66												
568													
566	68		(ML) CLAYEY SILT, trace fine to medium gravel, dry.	SS-18	68.5-70	14/18	31 41 50 for 4"	>100		NA	0.0	0.0	
	70												
564													
	72		(SM) Gray, fine to coarse SILTY SAND, trace fine to coarse gravel, well graded, very dense, wet.										
562													
	74			SS-19	73.5-75	10/18	48 50 2" for	>100		NA	0.0	0.0	
560			End of boring at 75' bgs at 1345.										

US-CHICAGO GLOBETROTTERS GEOTECH.GPJ CONT STD.US LAB.GDT 6/19/13

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-5B

SHEET 1 OF 4

Project: 26th Avenue Grade Separator	Project No.: 25359005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.76	Boring Location: 1003631.63, 1112085.97	
Drilling Company: Earth Solutions	Date Started: 04/19/13	Date Finished: 04/22/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 75.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 28.5	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Pocketpen. Resistance, tsf	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
632			(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166).
	2		(CL) Brown SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, stiff, low plasticity, moist.	SS-1	2-3.5	9/18	3 5 7	12	34.7	NA	0.0	0.0	
630													
	4			SS-2	3.5-5	12/18	4 3 5	8	18.9	NA	0.0	0.0	
628			(ML) Brown CLAYEY SILT, trace fine sand, medium dense, low plasticity, wet.										
	6			SS-3	6-7.5	15/18	5 5 6	10	17.7	NA	0.0	0.0	
626													
	8			SS-4	8.5-10	15/18	5 8 17	25	12.2	NA	0.0	0.0	
624			(CL) Brown SILTY CLAY, little fine to coarse sand, little fine to coarse gravel, very stiff, low plasticity, moist.										
	10		No recovery from 11-12.5' bgs.	SS-5	11-12.5	0/18	8 12 18	30		NA	0.0	0.0	
622													
	12		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-6	13.5-15	18/18	5 11 13	24	17.1	3.75	0.0	0.0	
620													
	14												
618													

US-CHICAGO GLOBETROTTERS GEOTECH.GPJ CONT STD.US LAB.GDT 6/19/13

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-5B

SHEET 2 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Pocketpen. Resistance, tsf	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
618			(CL) Gray SILTY CLAY, medium stiff, high plasticity, trace fine gravel, moist.	SS-7	16-17.5	4.5/18	4 6 15	21	15.0	3.5; 4.5*	0.0	0.0	
	18		(ML) Gray CLAYEY SILT, some fine to medium gravel, dry.										
614				SS-8	18.5-20	18/18	25 31 36	87	9.5	NA	0.0	0.0	Setup for pressure testing at 0900.
	20												
612													Noticed water coming up through auger when drilling down 23-25' bgs. Hit obstruction at 23.5' bgs. Had to pound through to 25' bgs at 1030.
	22												
610													Pressure testing from 25-29' bgs at 1120. Resume drilling at 1100 on 4/22/2013.
	24												
608													
	26												
606													
	28												
604			(ML) Gray CLAYEY SILT, trace fine to medium gravel, wet.	SS-9	28.5-30	12/18	16 50 for 5"	>100	14.4	NA	0.0	0.0	
	30												
602													
	32												
600			(ML) Gray CLAYEY SILT, trace fine gravel, moist.	SS-10	33.5-35	9/18	39 50 for 5"	>100		NA	0.0	0.0	
	34												
598													

US-CHICAGO GLOBETROTTERS GEOTECH.GPJ CONT STD.US LAB.GDT 6/19/13

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351	S42
		CHECKED - JG	REVISED			
	PLOT SCALE = None	DRAWN - RJ	REVISED		SHEET NO. 176 OF 240 SHEETS	
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED			

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	176
		CONTRACT NO. 63887		
	ILLINOIS	FED. AID PROJECT		

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LOG OF BORING SB-5B

SHEET 3 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
596													
	38												
594			(ML) Gray **CLAYEY SILT**, trace fine gravel, dry.	SS-11	38.5-40	18/18	27 28 24	52		NA	0.0	0.0	
	40												
592													
	42												
590													
	44		(ML) Same as above.	SS-12	43.5-45	18/18	17 12 30	42		NA	0.0	0.0	
588													
	46												
586													
	48												
584			(ML) Gray **CLAYEY SILT**, trace fine gravel, moist.	SS-13	48.5-50	12/18	40 50 for 3"	>100		NA	0.0	0.0	
	50												
582													
	52												
580													
	54		(ML) Gray **CLAYEY SILT**, trace fine gravel, moist to wet.	SS-14	53.5-55	18/18	35 50 for 4"	>100		NA	0.0	0.0	
578													

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ CINT STD US LAB.GDT 6/10/13

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-5B

SHEET 4 OF 4

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
576													
	58												
574			(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, dry.	SS-15	58.5-60	16/18	21 21 25	46		NA	0.0	0.0	
	60												
572													
	62												
570													
	64		(ML) Gray **CLAYEY SILT**, trace fine gravel, moist to wet.	SS-16	63.5-65	18/18	27 43 50 for 5"	>100		NA	0.0	0.0	
568													
	66												
566													
	68												
564			(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, dry.	SS-17	68.5-70	18/18				NA	0.0	0.0	
	70												
562													
	72		(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, dry.										
560													
	74		(ML) Same as above.	SS-18	73.5-75	18/18	15 20 36	56		NA	0.0	0.0	
558													

End of boring at 75' bgs at 1335.

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ CINT STD US LAB.GDT 6/10/13

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351	F.A.U RTE. 2714
		CHECKED - JG	REVISED			SECTION 99-00094-00-GS
	PLOT SCALE = None	DRAWN - RJ	REVISED			COUNTY COOK
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		SHEET NO. 177 OF 240 SHEETS	TOTAL SHEETS 240, SHEET NO. 177

S43

CONTRACT NO. 63887

ILLINOIS FED. AID PROJECT

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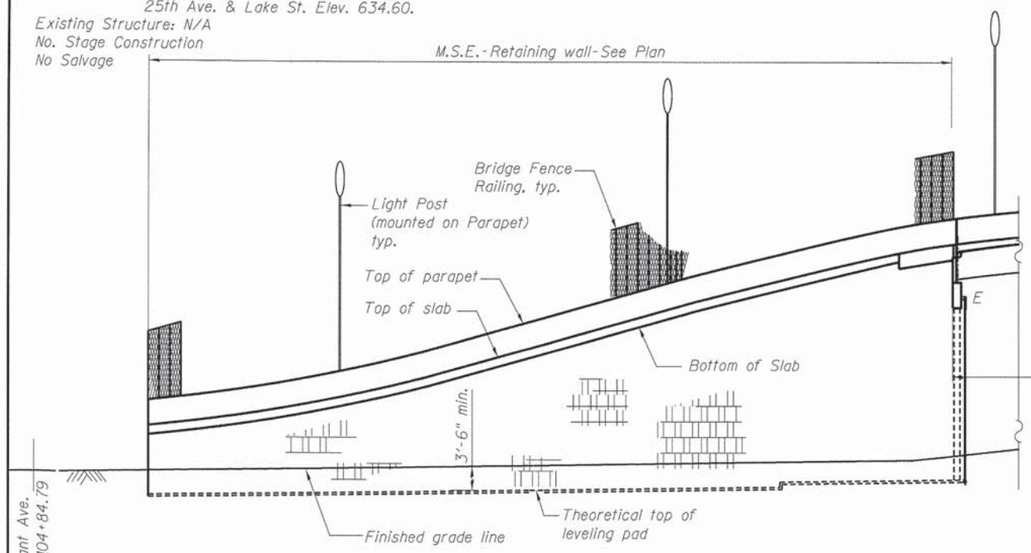
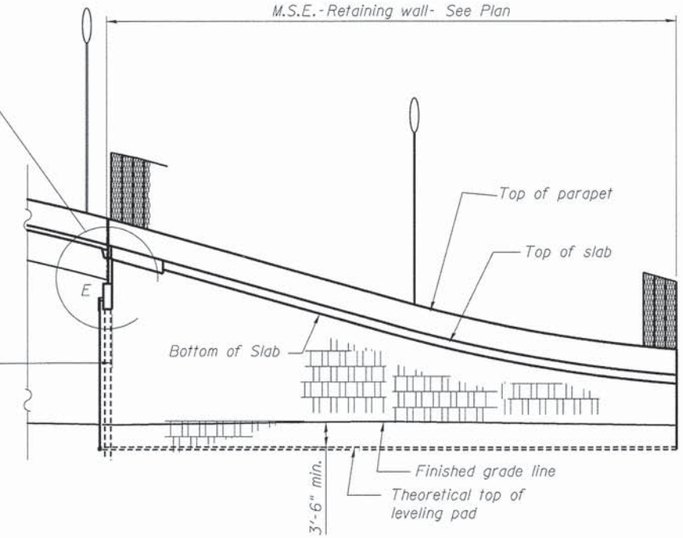
Bench Mark: West Bonnet Bolt on fire hydrant at northeast corner, 25th Ave. & Lake St. Elev. 634.60.
Existing Structure: N/A
No. Stage Construction
No Salvage



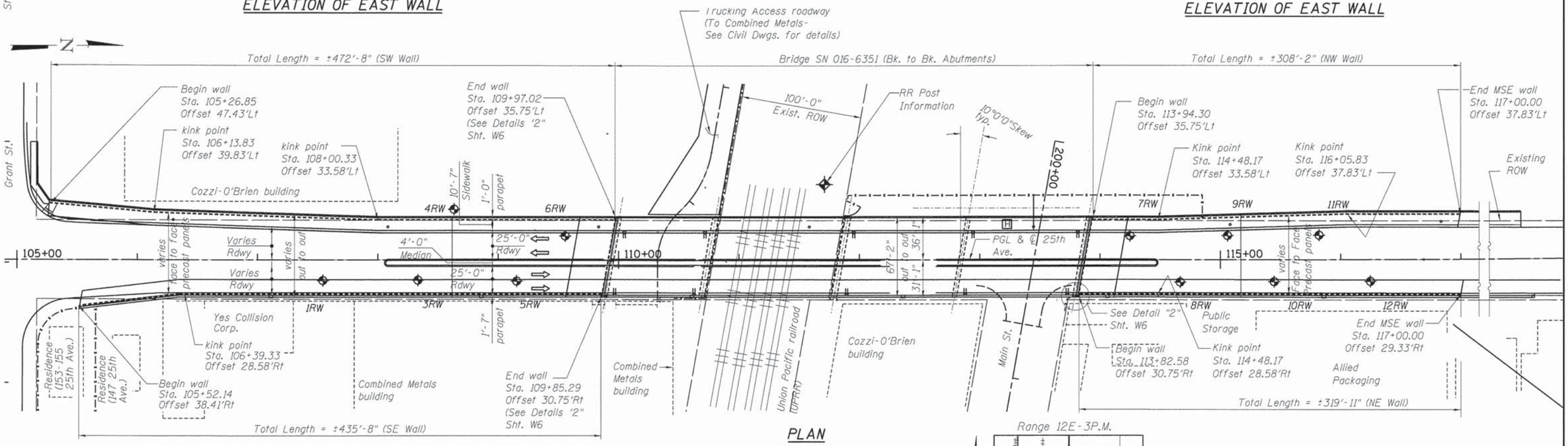
ELEVATION OF EAST WALL

For wall details see Sheets W4 and W5

Bridge SN 016-6351 - Bk to bk abutments



ELEVATION OF EAST WALL



PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

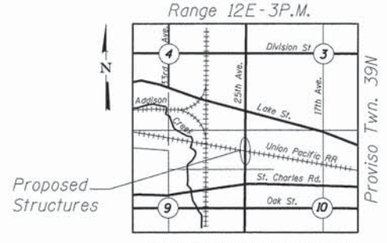
f'c = 4,000 psi
f'c = 4,500 psi (Precast panel)
fy = 60,000 psi (Reinforcement)

HIGHWAY CLASSIFICATION

Funding Rte.: F.A.U. Rte. 2714
Functional Class: Minor Arterial Urban Street
ADT: 19,000 (2012); 20000 (2040)
ADTT: 950 (5%) (2012); 1000 (2040)
DHV: 1,729
Design Speed: 35 m.p.h.
Posted Speed: 30 m.p.h.
2-Way Traffic
Directional Distribution: 50:50

Notes:
Horizontal dimensions, Stations and offsets are measured at the front face of precast panels.

◆ 5RW - Indicated Proposed MSE wall boring points from URS Geotechnical Report (Soil Boring Data)



LOCATION SKETCH

W1

USER NAME = robert.esquivel	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 4/8/2014	DATE - 3-24-2014	REVISED	

Globetrotters® Engineering Corporation

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
MSE RETAINING WALLS
SHEET NO. 178 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	178

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT

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GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.

2. The MSE Panel Walls are designed to not carry any vertical load other than their self-weight. Construction shall be carried out in that manner. Any failure of the MSE Walls due to gravity load shall be the responsibility of the Contractor.

3. Slipforming of the parapets is not allowed.

4. When transverse joints are required in anchorage slabs, they shall be aligned with joints in parapets and, if possible, adjacent pavement joints.

5. Anchorage slabs shall be cast-in-place for the inset of the 2" PJF and the coping of the MSE Wall.

6. The barriers on the MSE Walls shall be designed and constructed in accordance with AASHTO LRFD Chapter 13 (2).

7. The MSE Walls should be designed and constructed by the Contractor in accordance of guidelines required when modes of stability failure are possible due to the addition of the barrier system. This includes both sliding and overturning of the barrier-moment slab system.

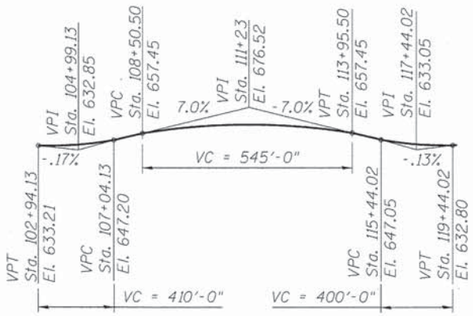
8. The precast panels of the MSE Walls should be designed and constructed by the Contractor in accordance of guidelines required when modes of stability failure are possible due to the addition of the barrier system. This includes both sliding and overturning of the barrier-moment slab system.

9. The Design and Construction of the MSE Walls are the responsibility of the Contractor In full. Per results of the geotechnial Investigation, a lightweight fill or other means is necessary to allow the placement of the MSE Walls as shown at all locations shown on the plans. consultation with Geotechnical Report and the Geotechnical Engineer (URS Corporation) are recommended.

10. The Final MSE wall design plans shall be stamped and sealed by a licensed Il. Structural Engineer.

INDEX OF DRAWING - MSE RETAINING WALLS

W1	General Plan
W2	General Data
W3	Reinforced Soil Mass Plan
W4	South Wall Elevations
W5	North Wall Elevations
W6	Cross Section & Details
W7	South Anchor Slab Plan & Details
W8	North Anchor Slab Plan & Details
W9	Anchor Slab Sections & Details
W10	Soil Boring Logs
W11	Soil Boring Logs
W12	Soil Boring Logs
W13	Soil Boring Logs
W14	Soil Boring Logs
W15	Soil Boring Logs
W16	Soil Boring Logs
W17	Soil Boring Logs
w18	Soil Boring Logs



25th AVE. PROFILE

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
MSE Wall	Sq. Ft.	25483		29929
Conc. Super Struct. (Appr. Overhang)	Cu. Yd.	1433		1433
Protective Coat	Sq. Yd.	3222		3222
Reinf. Bar, Epoxy-Ctd (Appr. Overhang)	Pound	151126		151126
Bridge Fence Railing (Sidewalk)	Foot	778		778
Bridge Fence Railing	Foot	753		753

The cost of back fill and rebar are included in the per Sq. Ft. cost of the wall.

W2

Globetrotters® Engineering Corporation

USER NAME = robert.esquivel	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 4/8/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-6351
SHEET NO. 179 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	179
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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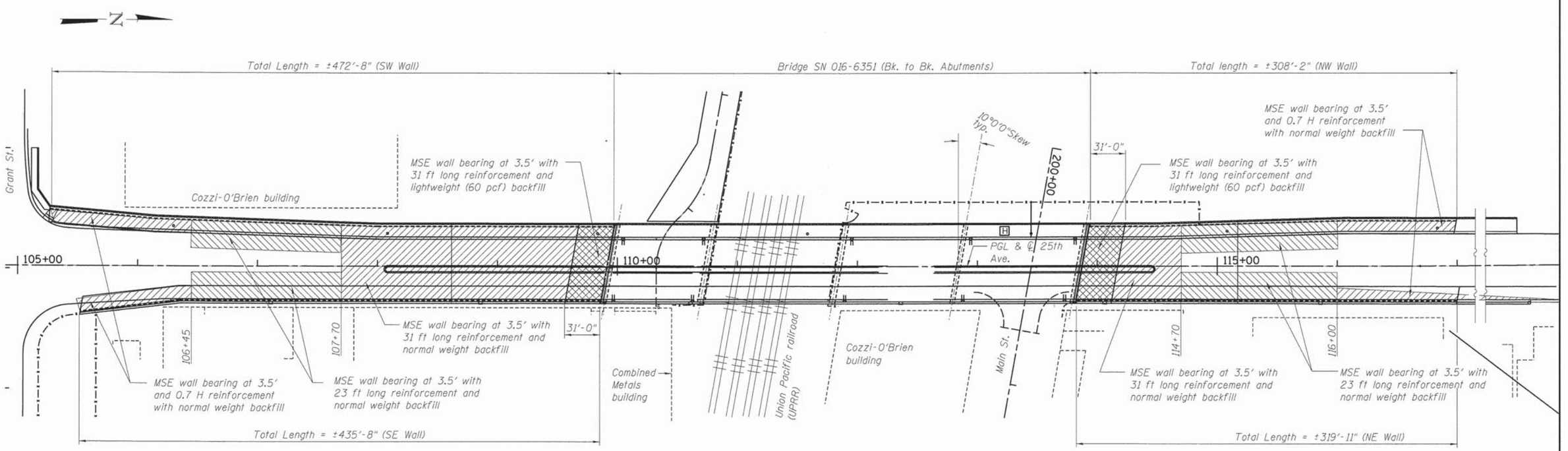

REINFORCED SOIL MASS PLAN

Note:
The above is merely a recommendation, not a design directive, relative to the MSE wall design. The final design is the responsibility of the Contractor, taking into account all conditions as presented in the projects Geotechnical Report, per URS.

The cost of back fill and rebar are included in the per Sq. Ft. cost of the wall.

W3

Globetrotters® Engineering Corporation

USER NAME = robert.esquivel	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 4/8/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REINFORCED SOIL MASS PLAN
MSE RETAINING WALLS
SHEET NO. 180 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	180
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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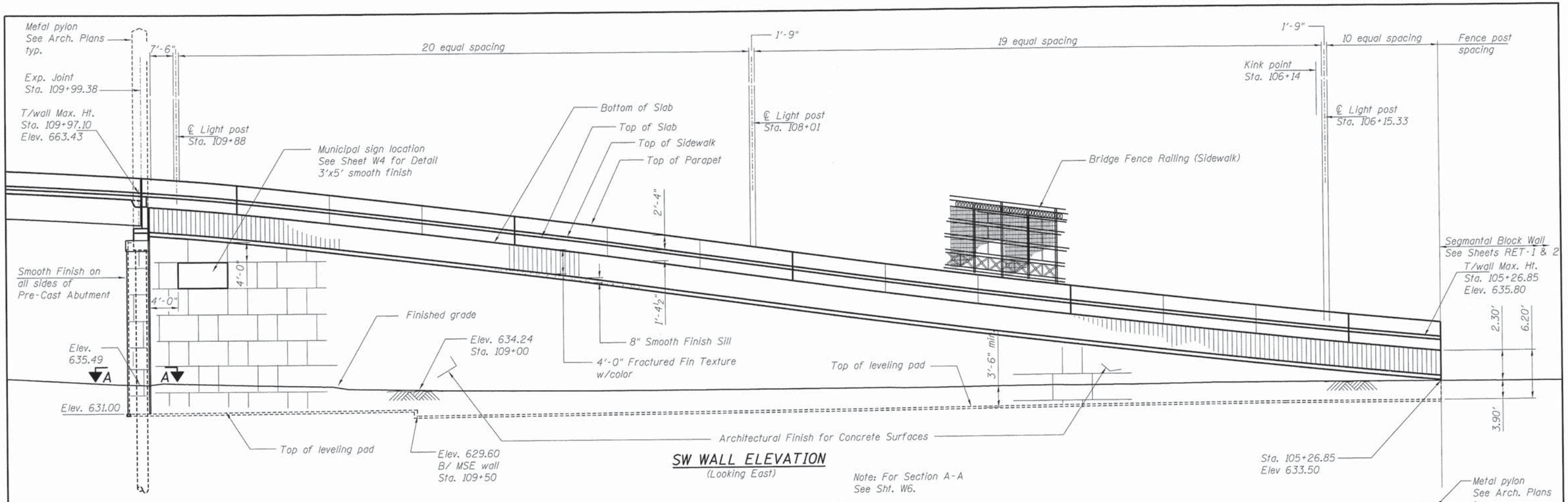

W4

Globetrotters® Engineering Corporation	USER NAME = robert.esquivel	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 4/8/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH WALL ELVATIONS
MSE RETAINING WALLS
SHEET NO. 181 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	181
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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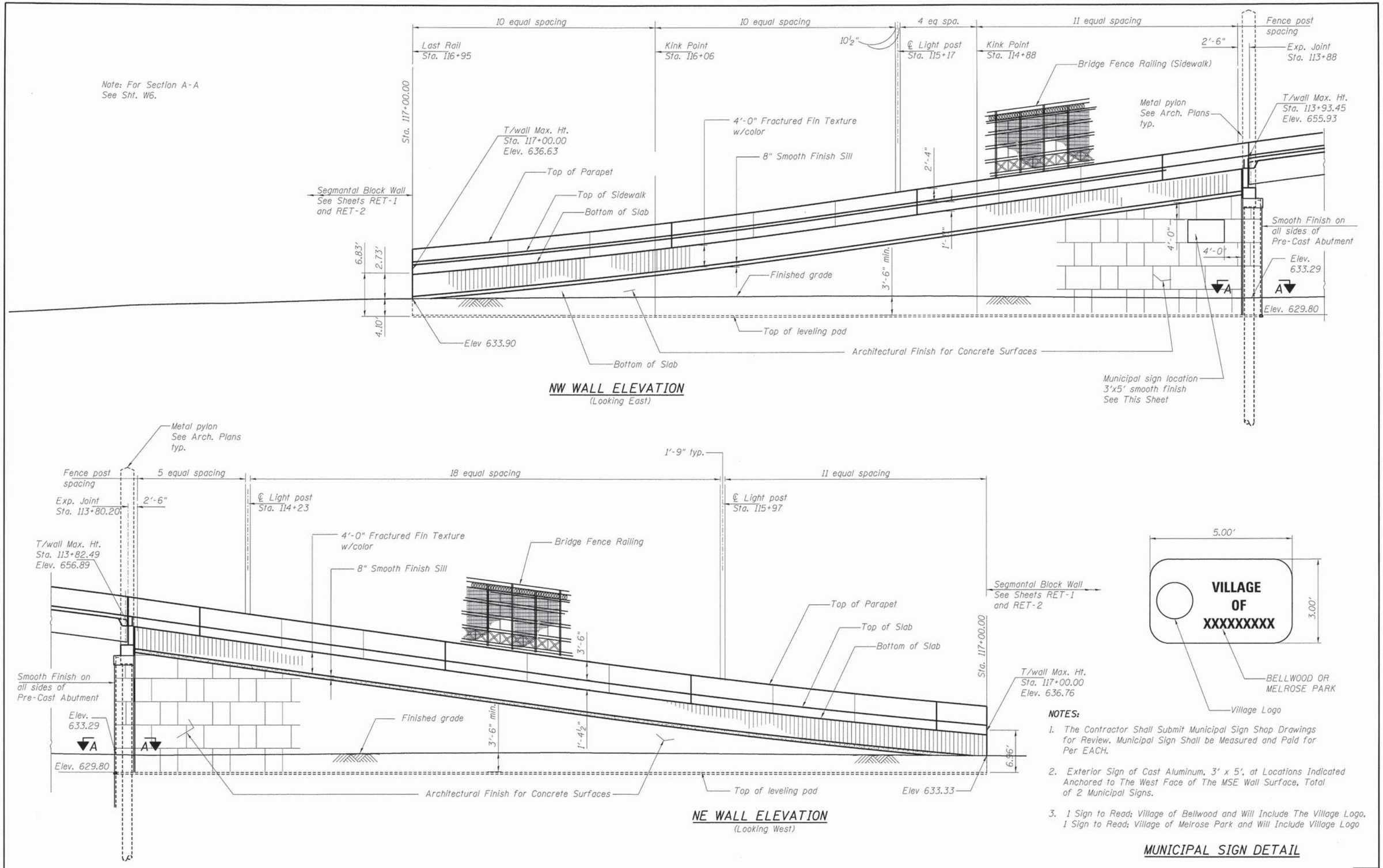

NOTES:

1. The Contractor Shall Submit Municipal Sign Shop Drawings for Review. Municipal Sign Shall be Measured and Paid for Per EACH.
2. Exterior Sign of Cast Aluminum, 3' x 5', at Locations Indicated Anchored to The West Face of The MSE Wall Surface, Total of 2 Municipal Signs.
3. 1 Sign to Read: Village of Bellwood and Will Include The Village Logo. 1 Sign to Read: Village of Melrose Park and Will Include Village Logo

MUNICIPAL SIGN DETAIL

Globetrotters® Engineering Corporation

USER NAME = robertesquivel	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 4/8/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH WALL ELEVATIONS
MSE RETAINING WALLS
SHEET NO. 182 OF 240 SHEETS

W5

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	182
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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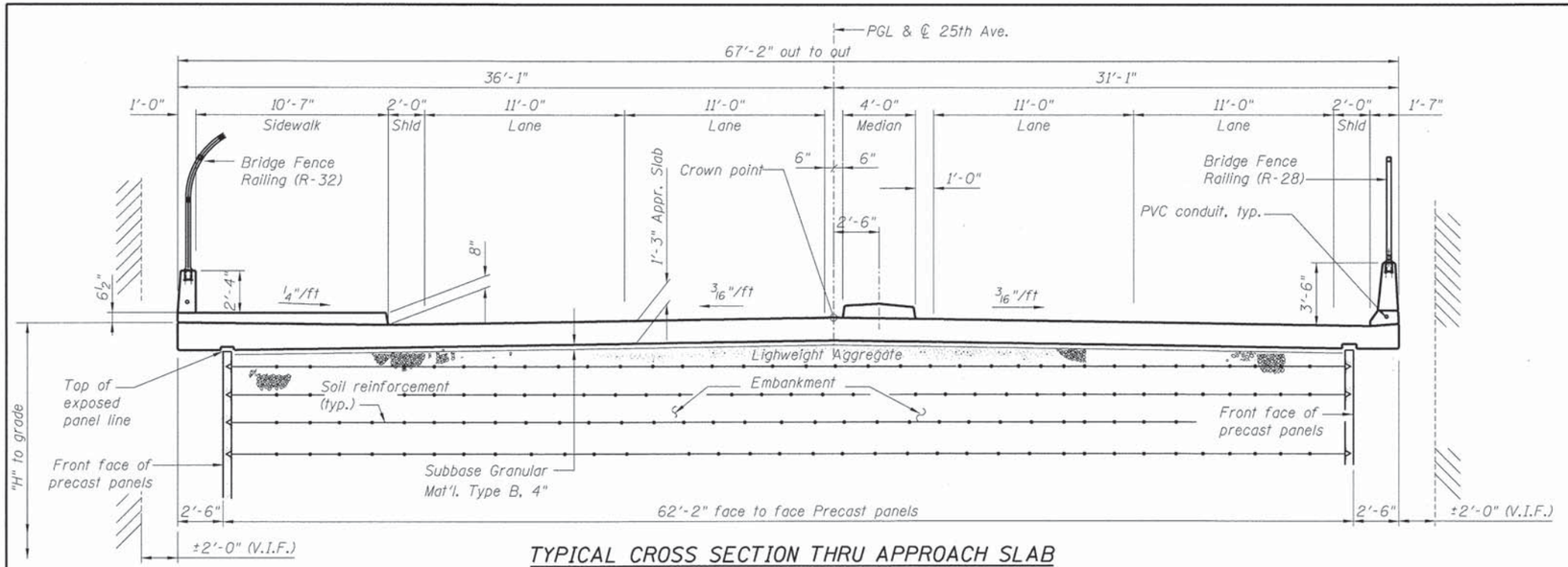
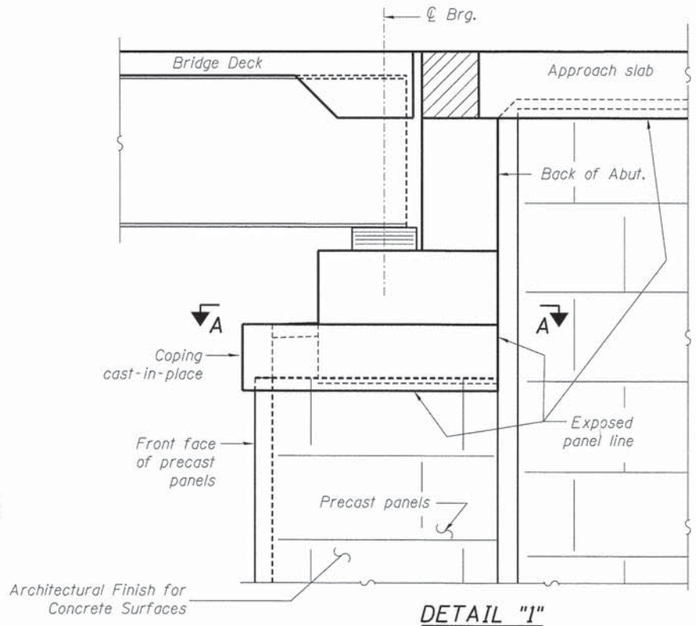
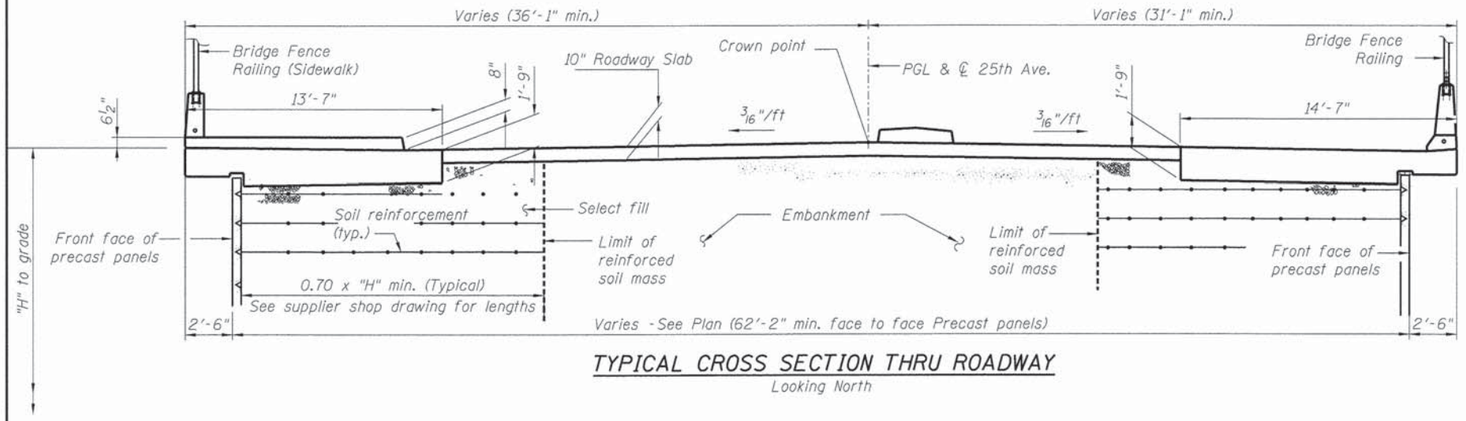


TYPICAL CROSS SECTION THRU APPROACH SLAB

Looking North

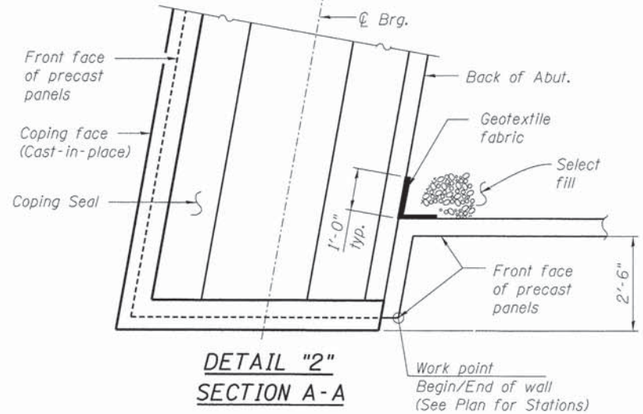


DETAIL "1" END VIEW AT ABUTMENT

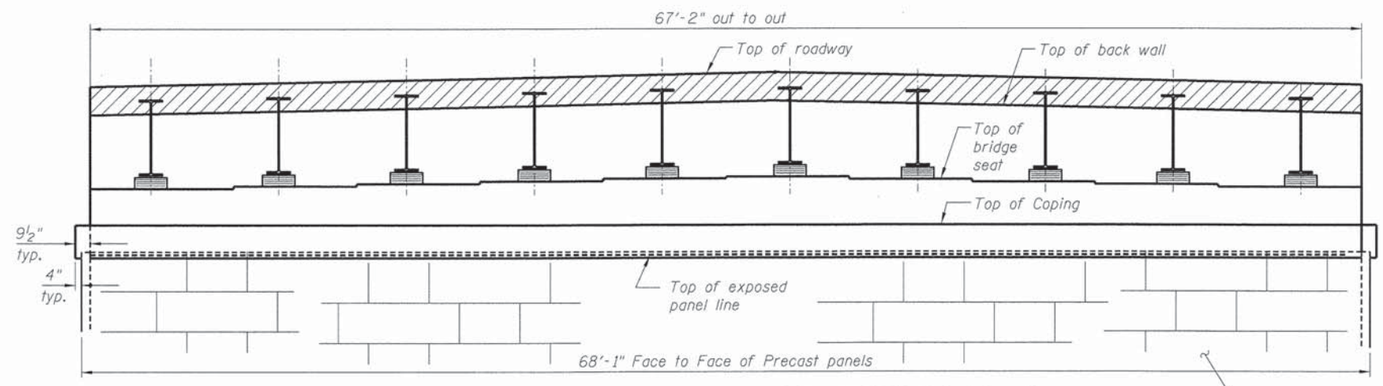


TYPICAL CROSS SECTION THRU ROADWAY

Looking North



DETAIL "2" SECTION A-A



ELEVATION AT ABUTMENT - M.S.E. RETAINING WALLS

Looking North - North abutment shown, south abutment similar

Note:
Hatched area to be poured after superstructure false work has been removed.

Item	Unit	Quantity
Bridge Fence Raling (Sidewalk)	Foot	778
Bridge Fence Railing	Foot	753

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS AND DETAILS
MSE RETAINING WALL
SHEET NO. 183 OF 240 SHEETS

W6

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	183

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT

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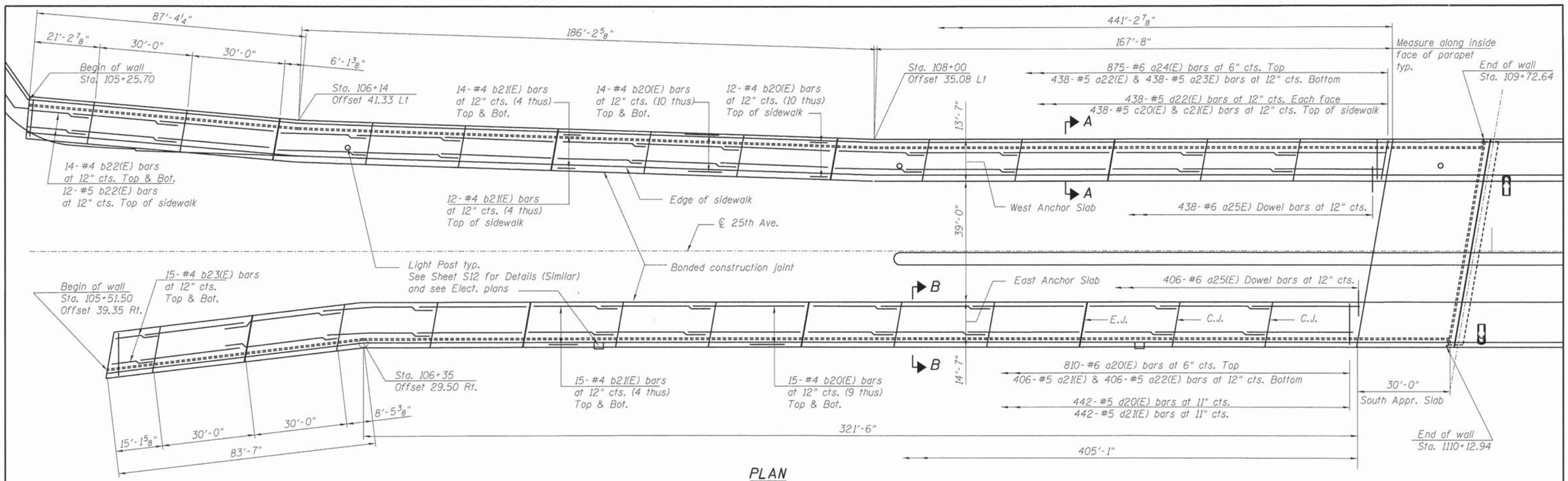
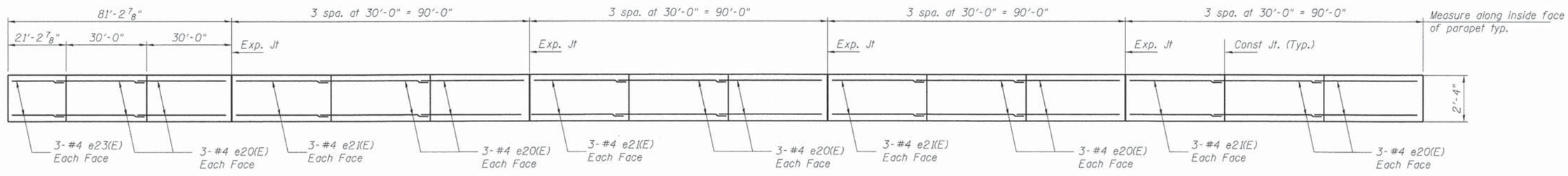
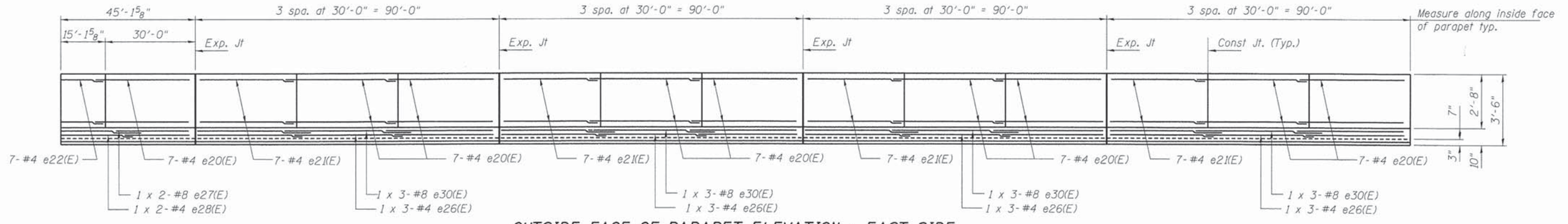


PLAN



INSIDE FACE OF PARAPET ELEVATION - WEST SIDE



OUTSIDE FACE OF PARAPET ELEVATION - EAST SIDE

W7

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ANCHOR SLAB PLAN AND DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 184 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	184
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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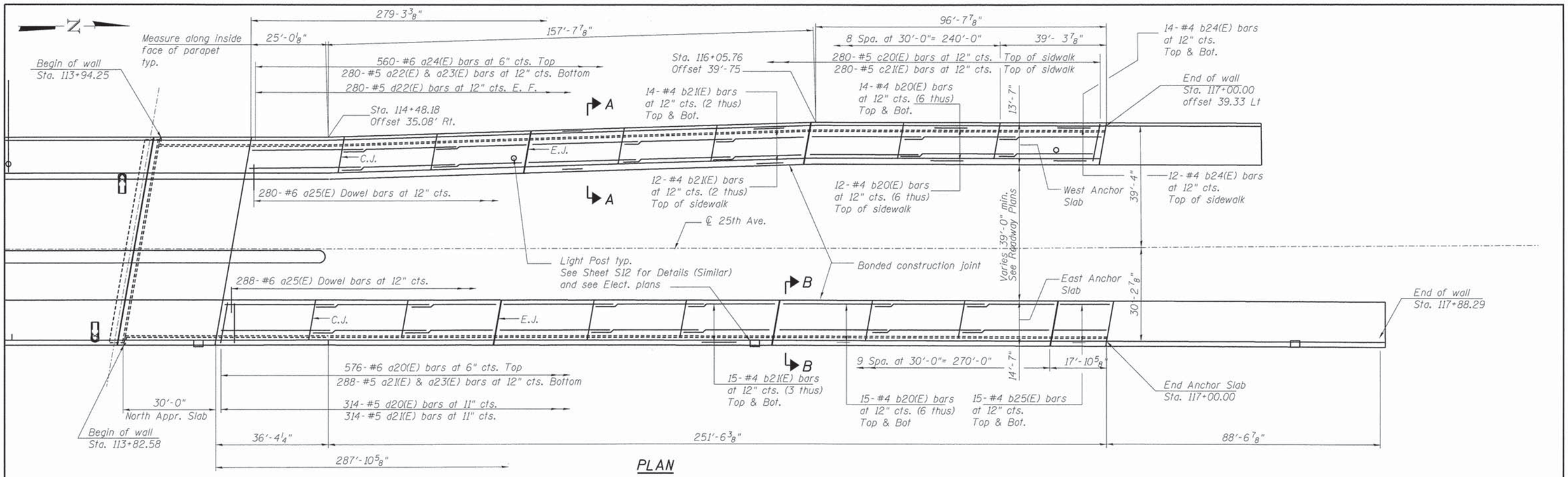
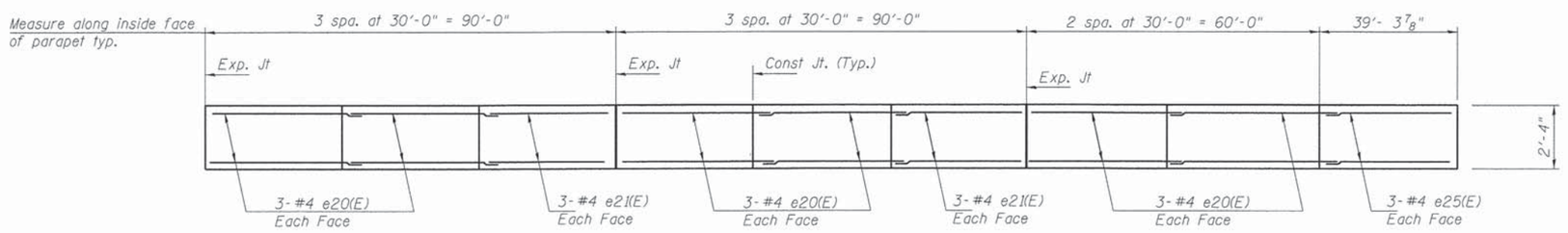
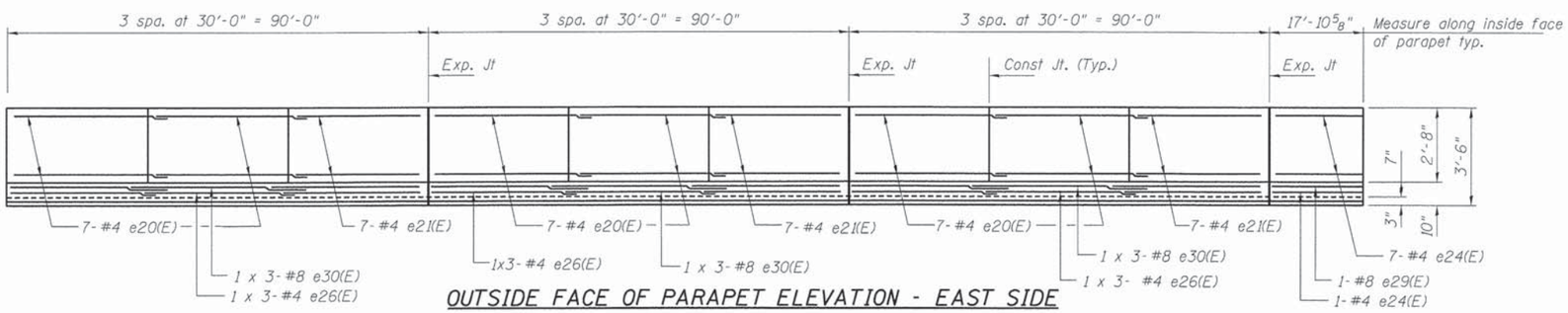


PLAN



INSIDE FACE OF PARAPET ELEVATION - WEST SIDE



OUTSIDE FACE OF PARAPET ELEVATION - EAST SIDE

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ANCHOR SLAB PLAN AND DETAILS
MSE RETAINING WALLS
SHEET NO. 185 OF 240 SHEETS

W8

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	185
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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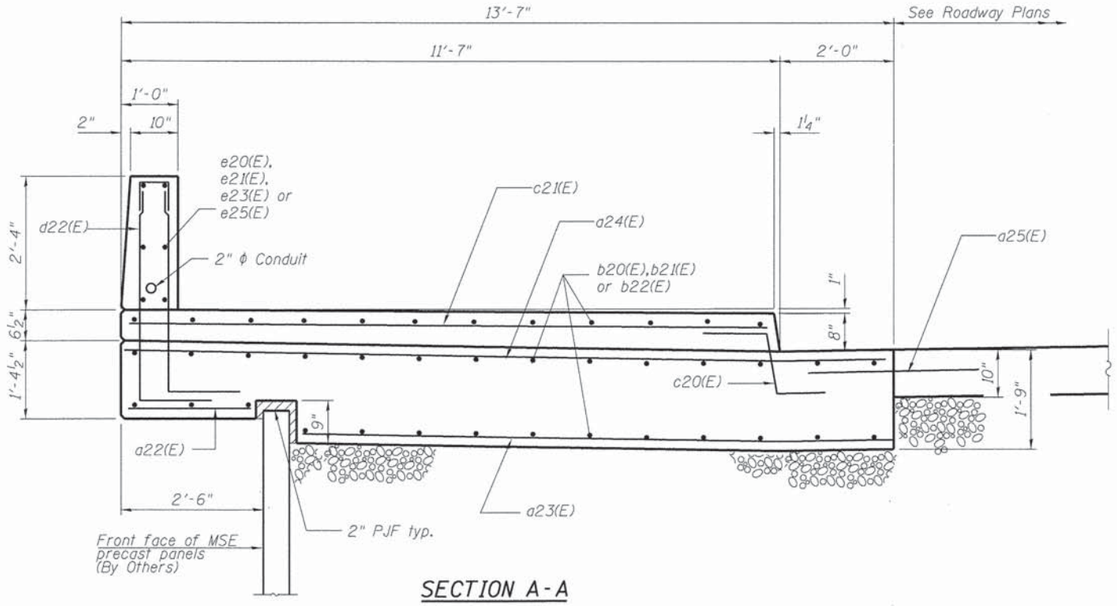
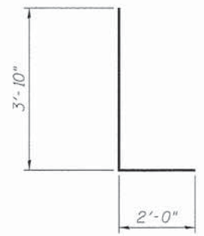
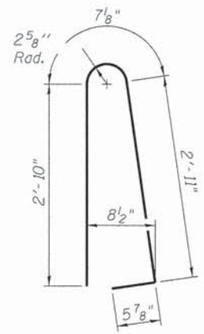


SECTION A-A
(Looking North))

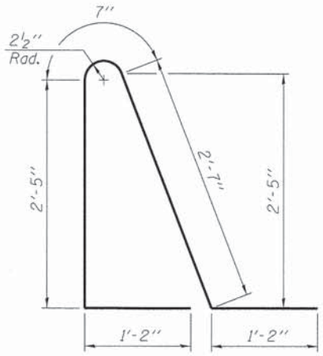
BAR d4(E)



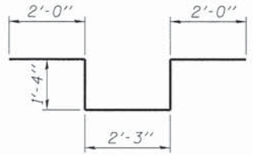
BAR d22(E)



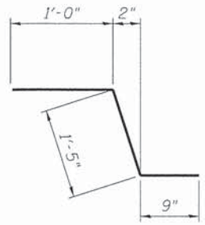
BAR d20(E)



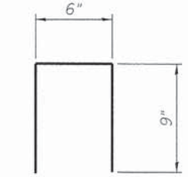
BAR d21(E)



BAR d5(E)



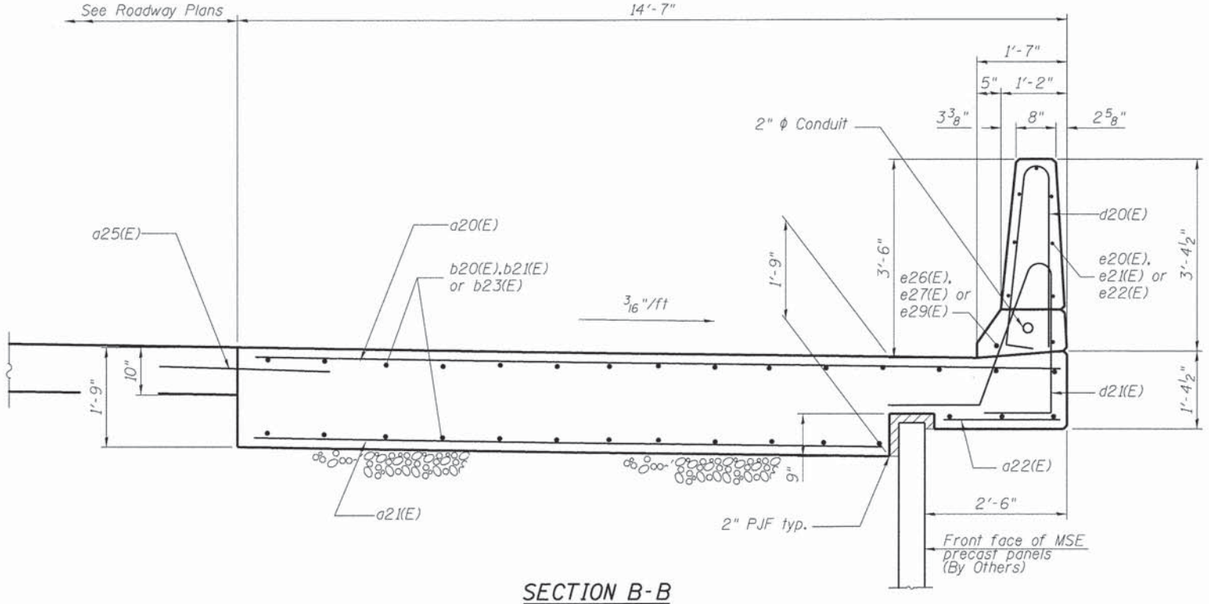
BAR c20(E)



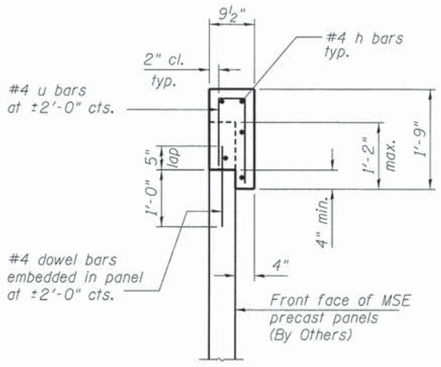
BAR u20(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	1386	#6	14'-3"	
a21(E)	694	#5	11'-1"	
a22(E)	1412	#5	2'-0"	
a23(E)	718	#5	10'-1"	
a24(E)	1435	#6	13'-3"	
a25(E)	1412	#6	3'-0"	
b20(E)	1090	#4	33'-3"	
b21(E)	450	#4	29'-8"	
b22(E)	40	#4	21'-0"	
b23(E)	30	#4	14'-10"	
b24(E)	40	#4	36'-3"	
b25(E)	30	#4	17'-7"	
c20(E)	718	#5	3'-2"	
c21(E)	718	#5	11'-2"	
d4(E)	6	#6	5'-1"	L
d5(E)	10	#6	8'-11"	
d20(E)	755	#4	6'-10"	
d21(E)	755	#4	7'-11"	
d22(E)	1436	#4	5'-10"	
e20(E)	201	#4	32'-8"	
e21(E)	85	#4	29'-8"	
e22(E)	7	#4	14'-10"	
e23(E)	6	#4	20'-11"	
e24(E)	8	#4	17'-7"	
e25(E)	6	#4	39'-0"	
e26(E)	21	#4	31'-9"	
e27(E)	2	#8	25'-0"	
e28(E)	2	#4	23'-10"	
e29(E)	1	#8	17'-6"	
e30(E)	14	#8	35'-1"	
Rebar, Epoxy-Coded			lbs	151,130
Conc. Superstruct.			Cu. Yd.	1430
Protection Coat			Sq. Yd.	2810



SECTION B-B
(Looking North))



CAST IN PLACE COPING DETAILS

Notes:
1. When transverse joints are required in anchorage slabs, they shall be aligned with joints in parapets and, if possible, adjacent pavement joints.

2. Anchorage slabs shall be cast-in-place for the inset of the 2" PJF and the coping of the MSE Wall.

W9

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTIONS AND DETAILS
STRUCTURE NO. 016-6351
SHEET NO. 186 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	186
		CONTRACT NO. 63887		
		ILLINOIS FED. AID PROJECT		

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-1RW

SHEET 1 OF 2

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.8	Boring Location: 1932901.36, 1112084.59	
Drilling Company: Earth Solutions	Date Started: 04/16/13	Date Finished: 04/16/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 25.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Counts per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan/Head Space (ppm)	PID/FID Scan/Head Space (ppm)	REMARKS
632	0		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0900.
630	2		(CL) Brown SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, stiff, low plasticity, moist.	SS-1	2-4	10/24	5 5 5	10	10.8	2.75	0.0	0.0	Metal 12" sewer line in ground. Move boring 3' NE at 0950.
628	4			SS-2	4-6	14/24	14 12 16	28	18.5	3.0	0.0	0.0	
626	6			SS-3	6-8	13/24	9 9 13 20	22	17.8	3.0	0.0	0.0	
624	8		(CL) Gray SILTY CLAY, little fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-4	8-10	21/24	8 9 13 16	22	16.7	3.75; 3.2*	0.0	0.0	
622	10												
620	12			SS-5	11-13	21/24	5 7 10	17	16.9	3.1*	0.0	0.0	Shelby tube collected from 13.5-15' bgs. ST; LL: 25; PL: 16; PI: 19.
618	14		(ML) Gray CLAYEY SILT, trace fine to medium gravel, dry to very moist.	ST	13.5-18	27/30					NA	0.0	0.0

USACHICAGO GLOBETROTTERS GEOTECH LOG GINT STD US LAB.GDT 4/9/15

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-1RW

SHEET 2 OF 2

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Counts per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan/Head Space (ppm)	PID/FID Scan/Head Space (ppm)	REMARKS
615	18		(ML) Gray SILT, little fine to coarse sand, trace fine gravel, dense, dry.	SS-6	16-17.5	18/18	12 22 28	50	12.6	NA	0.0	0.0	
614	20			SS-7	18.5-20	18/18	15 26 32	58	9.8	NA	0.0	0.0	
612	22			SS-8	21-23.5	NA	7 10 14	24	12.0	NA	0.0	0.0	
610	24			SS-9	23.5-25	NA	12 10 45	55		NA	0.0	0.0	
608			End of boring at 25' bgs at 1110.										

USACHICAGO GLOBETROTTERS GEOTECH LOG GINT STD US LAB.GDT 4/9/15

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3RW

SHEET 1 OF 2

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.62	Boring Location: 1932879.872, 1112081.856	
Drilling Company: Earth Solutions	Date Started: 04/16/13	Date Finished: 04/16/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 35.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Counts per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan/Head Space (ppm)	PID/FID Scan/Head Space (ppm)	REMARKS
632	0		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1145.
630	2		(ML) Light brown CLAYEY SILT, trace fine to medium gravel, dry.	SS-1	2-3.5	8/18	16 12 7	19		NA	0.0	0.0	
628	4		(CL) Brown SILTY CLAY, trace fine to coarse sand, trace fine gravel, stiff, low plasticity, moist.	SS-2	3.5-5	13/18	8 9 11	20	18.3	3	0.0	0.0	
626	6												
624	8			SS-3	6-7.5	16/18	5 10 14	24	20.1	2.75	0.0	0.0	
622	10		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, stiff to very stiff, low plasticity, moist.										
620	12			SS-4	8.5-10	16/18	6 6 9	15	17.4	3; 3.1*	0.0	0.0	
618	14												
616	16			SS-5	11-12.5	16/18	4 4 6	10	19.1	1.75	0.0	0.0	
				SS-6	13.5-15	18/18	4 6 10	16	19.0	2.0	0.0	0.0	
			(ML) Gray CLAYEY SILT.										

USACHICAGO GLOBETROTTERS GEOTECH LOG GINT STD US LAB.GDT 4/9/15

W10

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351	F.A.U RTE.	SECTION
		CHECKED - JG	REVISED			2714	99-00094-00-GS
	PLOT SCALE = None	DRAWN - RJ	REVISED				
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		SHEET NO. 187 OF 240 SHEETS		

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	240	187
CONTRACT NO. 63887		
ILLINOIS FED. AID PROJECT		

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-3RW

SHEET 2 OF 2

ELEV	DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetrom. Resistance *tsf	Moisture Content	Unconfined Compr. Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
616	18	(ML) Gray CLAYEY SILT, trace fine to coarse sand, trace fine gravel, medium dense, low plasticity, moist to dry.	SS-7	16-17.5	18/18	7 9 15	24	12.3	NA	0.0	0.0	
614	20											Stop drilling for lunch at 1255. Resume drilling at 1317.
			SS-8	18.5-20	18/18	7 20 22	42		NA	0.0	0.0	
610	22											
606	24		SS-9	23.5-25	18/18	10 15 21	36	10.8	NA	0.0	0.0	
	26	Blind drilled from 25-28.5' bgs.										
602	28		SS-10	28.5-30	18/18	14 17 20	37	14.8	NA	0.0	0.0	
600	30	Blind drilled from 30-33.5' bgs.										
	32											
598	34		SS-11	33.5-35	NA	13 26 30	56		NA	0.0	0.0	
		End of boring at 35' bgs at 1350.										

USR-CHICAGO GLOBETROTTERS GEOTECH.GDT STD.LIS LAB.GDT 6/18/13

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LOG OF BORING SB-4RW-PSI

SHEET 1 OF 3

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.44	Boring Location: 1903007.95, 1112021.59	
Drilling Company: Earth Solutions	Date Started: 05/01/13	Date Finished: 05/01/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 50.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 8.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetrom. Resistance *tsf	Moisture Content	Unconfined Compr. Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
			(TOPSOIL).				5						
			(FILL) Dark brown CLAY AND GRAVEL.				4						
632			<<FirstData(	SS-1	0-2	24/24	7 11			3.76	0.0	0.0	
	2		(CL) Brown CLAY, stiff, trace organics, trace fine to medium gravel, light gray mottling, moist.				8						
630				SS-2	2-4	12/24	5 6 9 13	15	18.8	3.75	0.0	0.0	
	4		(CL) Brown SILTY CLAY, medium plasticity, stiff to medium stiff, light brown mottling, moist.	SS-3	4-5	19/24	5 7 8 11	15	18.4	3.5	0.0	0.0	
628													
	6		(CL) Brown to gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-4	6-8	22/24	4 7 10 12	17	20.2	3.75	0.0	0.0	
626													
	8		(CL) Brown SILTY CLAY, trace fine to coarse sand, very stiff, low plasticity, moist.	SS-5	8-10	18/24	4 7 9 12	16	17.7	3.75	0.0	0.0	SS-5: LL: 37; PL: 16; PI: 21.
624	10												
				ST	10-12.5	20/30				3.5	0.0	0.0	
622													
	12												
620				SS-6	13.5-15	14/18	3 5 8	13	18.7	3.0	0.0	0.0	
	14												
618													

*Uncorrected compressive strength of soil samples determined using RIMAC (ASTM D2166).
Begin drilling at 1250.

Collect sample SB-4RW-PSI from 2-4' bgs at 1300.

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LOG OF BORING SB-4RW-PSI

SHEET 2 OF 3

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetrom. Resistance *tsf	Moisture Content	Unconfined Compr. Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
			(CL) Gray SILTY CLAY, high plasticity, medium stiff, trace fine gravel, moist.	SS-7	16-17.5	12/18	23 7 7	14	20.6	2.5	0.0	0.0	
616	18		(ML) Gray CLAYEY SILT, trace fine to medium gravel, dry.										
614	20			SS-8	18.5-20	18/18	9 6 18	24	11.9	NA	0.0	0.0	
612	22		(CL) Gray SILTY CLAY, little fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.										
610	24			SS-9	23.5-25	18/18	6 8 10	18	12.7	NA	0.0	0.0	
608	26												
606	28		(CL) Same as above.	SS-10	28.5-30	14/18	12 13 20	33		NA	0.0	0.0	
604	30												
602	32		(CL) Gray SILTY CLAY, low plasticity, very stiff, moist.										
600	34		(CL) Gray SILTY CLAY, low plasticity, very stiff, moist.	SS-11	33.5-35	NA	8 13 19	32	18.0	4.5+	0.0	0.0	
598													

USR-CHICAGO GLOBETROTTERS GEOTECH.GDT STD.LIS LAB.GDT 6/18/13

Globetrotters Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED	
	CHECKED - JG	REVISED	
PLOT SCALE = None	DRAWN - RJ	REVISED	
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-6351
SHEET NO. 188 OF 240 SHEETS

W11

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	188
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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LOG OF BORING SB-4RW-PSI

SHEET 3 OF 3

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance *N*	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan/Head (ppm)	PID/ FID Hexane (ppm)	REMARKS
596	38		(ML) Gray CLAYEY SILT, trace fine gravel, some fine to coarse sand, low plasticity, dry.										
				SS-12	38.5-40	6/18	50 for 4"	>100	10.9	NA	0.0	0.0	
594	40												
592	42		0.2' gray rock, dry at 43.0' bgs.										SS-13: Drilled on a piece of coarse gravel at 44' bgs.
			(ML) Gray CLAYEY SILT, dry.	SS-13	43.5-45	13/18	28 50 for 4"	>100	10.5	NA	0.0	0.0	
590	44												
588	46		(ML) Same as above.	SS-14	46.5-50	8/18	50 for 5"	>100		NA	0.0	0.0	
586	48												
584	50		End of boring at 50' bgs at 1445.										

US-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

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LOG OF BORING SB-5RW

SHEET 1 OF 3

Project: 25th Avenue Grade Separator	Project No.: 25359005.3000
Location: Melrose Park/Bellwood, IL	Elevation: 633.38 / Boring Location: 1903061.564, 1112079.74
Drilling Company: Earth Solutions	Date Started: 04/16/13 / Date Finished: 04/16/13
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA / Rock Depth (ft bgs): NA / Completion Depth (ft bgs): 50.0
Drilling Method: Mud Rotary	Water Level (ft bgs)
Drill Bit Type/Diameter: 8.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA / Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna / Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Wood

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance *N*	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan/Head (ppm)	PID/ FID Hexane (ppm)	REMARKS
632	0		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1410.
	2		(CL) Greenish gray to light brown mottled SILTY CLAY, trace fine gravel, trace fine to coarse sand, very stiff, medium plasticity, moist.	SS-1	2-3.5	9/18	18 7 7	14	22.0	2.0	0.0	0.0	
630	4			SS-2	3.5-5	8/18	5 7 6	13	20.9	2.5; 2.8*	0.0	0.0	
628	6		(CL) Brown SILTY CLAY, trace fine gravel, little fine to coarse sand, very stiff, low plasticity, moist.	SS-3	6-7.5	18/18	9 12 22	34	17.3	3.0	0.0	0.0	
626	8		(CL) Brown SILTY CLAY, stiff, low plasticity, trace fine gravel, moist.	SS-4	8.5-10	18/18	7 10 11	21	17.0	3.5; 4.0*	0.0	0.0	
624	10		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine gravel, very stiff, low plasticity, moist.	SS-5	11-12.5	15/18	4 5 6	11	19.7	2.0	0.0	0.0	SS-5: LL: 35; PL: 16; PI: 19.
622	12												
620	14		Stiff at 13.5' bgs.	SS-6	13.5-15	17/18	4 3 5	8	19.5	1.5	0.0	0.0	
618	16		(CH) Brown to olive gray CLAY.										

US-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

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LOG OF BORING SB-5RW

SHEET 2 OF 3

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance *N*	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan/Head (ppm)	PID/ FID Hexane (ppm)	REMARKS
616	18		(CH) Brown to olive gray CLAY, soft, high plasticity, trace fine gravel. 2" seam of fine sand at 18.5-18.7' bgs.	SS-7	16-17.5	18/18	4 7 14	21	13.8	2.0; 2.7*	0.0	0.0	
614	20		(ML) Gray CLAYEY SILT, trace fine to coarse sand, trace fine to medium gravel, dense, low plasticity, moist to dry.	SS-8	18.5-20	16/18	11 13 18	31	10.0	NA	0.0	0.0	
612	22												
610	24		(ML) Same as above, trace fine to coarse gravel.	SS-9	23.5-25	18/18	22 28 30	48		NA	0.0	0.0	
608	26												
606	28		(ML) Higher clay content at 28.5' bgs.	SS-10	28.5-30	13/18	14 17 22	39	11.6	NA	0.0	0.0	
604	30												
602	32		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, hard, low plasticity, moist.	SS-11	33.5-35	18/18	13 14 21	35		4.0	0.0	0.0	
600	34												
598													

US-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

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LOG OF BORING SB-5RW

SHEET 3 OF 3

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
596	38		(ML) Gray **CLAYEY SILT**, trace fine to coarse sand, trace fine to coarse gravel, very dense, low plasticity, moist to dry.										
594	40			SS-12	38.5-40	9/18	50 for 3"	>100	14.4	NA	0.0	0.0	
592	42												
590	44		(ML) Gray **CLAYEY SILT**, piece of rock in spoon.	SS-13	43.5-45	2/18	35 44 34	78		NA	0.0	0.0	
588	46												
586	48		(ML) Gray **CLAYEY SILT**, trace fine to coarse gravel, dry.	SS-14	48.5-50	11/16	32 50 for 5"	>100	14.1	NA	0.0	0.0	
584	50		End of boring at 50' bgs at 1625.										

USR-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

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LOG OF BORING SB-6RW

SHEET 1 OF 2

Project: 25th Avenue Grade Separator		Project No.: 25369005.3000	
Location: Melrose Park/Bellwood, IL	Elevation: 634.82	Boring Location: 1933100.79, 1112041.28	
Drilling Company: Earth Solutions	Date Started: 05/08/13	Date Finished: 05/08/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 25.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 17		Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna		Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Waxall		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
634	0		(ASPHALT).										Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0825.
632	2		(FILL) Dark brown **SAND**, some fine to coarse gravel, dry.	SS-1	2-3.5	4/18	3 3 3	6		3.0	0.0	0.0	
630	4		(CL) Light brown to greenish gray **CLAY**, soft, low plasticity, dark brown mottling, dry to moist. (CL) Light brown to light gray **SILTY CLAY**, trace fine to coarse gravel, brown mottling, medium stiff, high plasticity, moist.	SS-2	3.5-5	11/18	2 3 3	6	20.1	3.0	0.0	0.0	
628	6		(CL) Light brown **CLAY**, stiff, medium plasticity, trace fine to medium gravel, brown mottling, moist.	SS-3	6-7.5	12/18	3 7 11	18	17.8	4.0	0.0	0.0	
626	8		(CL) Olive gray **CLAY**, hard, high plasticity, trace fine to medium gravel, brown mottling, moist.	SS-4	8.5-10	16/18	6 9 11	20	17.0	4.5+	0.0	0.0	
624	10		(CL) Olive gray **SILTY CLAY**, medium stiff, high plasticity, trace fine to medium gravel, moist.	SS-5	11-12.5	16/18	3 4 7	11	19.2	2.5	0.0	0.0	SS-5: LL: 33; PL: 15; PI: 18.
622	12		(CL) Same as above.	SS-6	13.5-15	18/18	3 4 6	10	18.9	2.5	0.0	0.0	
620	14		(ML) Gray **CLAYEY SILT**, very moist. (CL) Gray **SILTY CLAY**.										

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LOG OF BORING SB-6RW

SHEET 2 OF 2

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type and No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
615			(CL) Gray SILTY CLAY, soft, high plasticity, trace fine to medium gravel, moist.	SS-7	16-17.5	18/18	3 4 9	13	14.4	2.5	0.0	0.0	
616	18		(ML) Gray **SANDY, CLAYEY SILT**, wet. (ML) Gray **CLAYEY SILT**, very moist.										
614	20		(ML) Gray **CLAYEY SILT**, trace fine to coarse gravel, dry to moist.	SS-8	18.5-20	15/18	10 15 16	31	11.2	NA	0.0	0.0	
612	22												
610	24		(ML) Gray **CLAYEY SILT**, trace fine to medium gravel, moist.	SS-9	23.5-25	18/18	10 18 20	36	11.5	NA	0.0	0.0	
			End of boring at 25' bgs at 1005.										

USR-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

Globetrotters® Engineering Corporation

USER NAME = stephen.schuh	DESIGNED - RD	REVISED
	CHECKED - JG	REVISED
PLOT SCALE = None	DRAWN - RJ	REVISED
PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-6351
SHEET NO. 190 OF 240 SHEETS

W13

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	190
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-7RW-PSI
SHEET 1 OF 3

Project: 26th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.87	Boring Location: 1903569.53, 1112024.78	
Drilling Company: Earth Solutions	Date Started: 04/26/13	Date Finished: 04/26/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 50.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxall		

DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
0	(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0810.
2	(CL) Dark brown SILTY CLAY, high plasticity, medium stiff, trace fine to medium gravel, light brown to light gray mottling.	SS-1	2-4	11/24	6, 6, 8, 10	14	18.9	3.0	0.0	0.0	
4	(CL) Brown SILTY CLAY, little fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-2	4-6	20/24	4, 4, 6, 6	10	20.5	3.5 / 2.0	0.0	0.0	Collect sample SB-7RW-PSI from 4-6' bgs at 0845.
6	(CL) Brown SILTY CLAY, trace fine to coarse sand, trace fine to medium gravel, hard, low plasticity, moist.	SS-3	6-8	24/24	13, 15, 17, 28	32	17.6	4.0	0.0	0.0	
8		SS-4	8-10	24/24	8, 15, 21, 30	36	18.4	4.0	0.0	0.0	
11	(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, stiff, low plasticity, moist.	SS-5	11-12.5	15/18	5, 8, 13	21	16.3	4.0	0.0	0.0	
12.5	(CL) Gray SILTY CLAY, trace fine to medium gravel, stiff, medium plasticity, moist.	3T	12.5-15	30/30				4.0	0.0	0.0	Shelby tube collected from 12.5-15' bgs. 3T: LL: 31; PL: 15; PI: 16.

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LOG OF BORING SB-7RW-PSI
SHEET 2 OF 3

DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
16	(CL) Gray SILTY CLAY, high plasticity, medium stiff, trace fine gravel, moist.	SS-6	16-17.5	17/18	4, 7, 10	17	17.6	3.0	0.0	0.0	
18	(SC) Gray, fine POORLY GRADED CLAYEY SAND, dry to moist.										
18.5	(ML) Gray CLAYEY SILT.	SS-7	18.5-20	13/18	8, 8, 18	26	10.2	NA	0.0	0.0	
23.5	(ML) Gray CLAYEY SILT, little fine to coarse sand, trace fine to coarse gravel, very dense, low plasticity, moist to dry.	SS-8	23.5-25	15/18	16, 25, 35	60	11.4	NA	0.0	0.0	
28.5		SS-9	28.5-30	18/18	20, 30, 35	65	11.6	NA	0.0	0.0	
33.5	(ML) Gray CLAYEY SILT, little fine to coarse sand, trace fine to coarse gravel, very dense, low plasticity, moist to dry.	SS-10	33.5-35	18/18	37, 50 for 5"	>100	13.7	NA	0.0	0.0	

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/10/13

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CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-7RW-PSI
SHEET 3 OF 3

DEPTH	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
38.5	(ML) Gray CLAYEY SILT, trace fine to medium gravel, moist.	SS-11	38.5-40	12/18	30, 50 for 4"	>100	8.3	NA	0.0	0.0	
43.5	(ML) Same as above, dry.	SS-12	43.5-45	14/18	33, 50 for 4"	>100	12.1	NA	0.0	0.0	
48.5	(ML) Gray CLAYEY SILT, trace fine to medium gravel, dry.	SS-13	48.5-50	NA	23, 50 for 5"	>100	12.2	NA	0.0	0.0	

End of boring at 50' bgs at 1035.

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/10/13

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-6351
SHEET NO. 191 OF 240 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	191

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT
W14

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-8RW

SHEET 1 OF 3

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 632.06	Boring Location: 1903612.62, 1112061.8	
Drilling Company: Earth Solutions	Date Started: 04/19/13	Date Finished: 04/19/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 50.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 5.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA		Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna		Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Counts per 6"	Penetration Resistance 'N'	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Reading (ppm)	PID/FID Headspace (ppm)	REMARKS
632			(ASPHALT).										
	2		(CL) Greenish gray to light brown SILTY CLAY, high plasticity, medium stiff, trace fine sand and gravel, dark brown mottling, moist.	SS-1	2-3.5	10/18	6 6 7	13	13.0	2.0	0.0	0.0	
630			(CL) Light brown to dark gray SILTY CLAY, stiff, medium plasticity, trace fine gravel, brown mottling, moist.	SS-2	3.5-5	18/18	5 8 12	20	18.1	3.5; 4.8*	0.0	0.0	
628	4		No recovery from 6-7.5' bgs.	SS-3	6-7.5	0/18	5 8 9	17		NA	0.0	0.0	
626	6		(ML) Light brown CLAYEY SILT, trace fine to coarse sand, medium dense, low plasticity, moist.	SS-4	8.5-10	18/18	9 15 21	36	19.1	NA	0.0	0.0	
624	8												
622	10		(CL) Gray SILTY CLAY, little fine to coarse sand, trace fine to coarse gravel, very stiff to hard, low plasticity, moist.	SS-5	11-12.5	18/18	5 9 14	23	12.1	3.75	0.0	0.0	
620	12												
618	14		(CL) Gray SILTY CLAY, medium plasticity, stiff, trace fine gravel, moist.	SS-6	13.5-15	18/18	5 7 11	18	16.1	3.75; 4.9*	0.0	0.0	

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CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-8RW

SHEET 2 OF 3

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Counts per 6"	Penetration Resistance 'N'	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Reading (ppm)	PID/FID Headspace (ppm)	REMARKS
616			(CL) Gray SILTY CLAY, medium plasticity, stiff, trace fine gravel, moist.	SS-7	16-17.5	18/18	5 9 16	25	16.0	3.5	0.0	0.0	
	18												
614			(ML) Gray CLAYEY SILT, trace fine to coarse sand, trace fine to coarse gravel, dense, low plasticity, moist.	SS-8	18.5-20	18/18	11 20 23	43	14.9	NA	0.0	0.0	
612	20												
	22												
610			Some fine to coarse sand at 23.5' bgs.	SS-9	23.5-25	18/18	20 21 24	45		2.0	0.0	0.0	
608	24		(CL) Brown SILTY CLAY, medium stiff, high plasticity, trace fine gravel.										
	26		(SP) Gray, fine to medium SAND, moist, dense, poorly graded, moist.										
606				SS-10	28.5-30	18/18	20 30 29	59		NA	0.0	0.0	
	28												
604													
	30		(ML) Gray SILT, trace fine to coarse sand, trace fine gravel, dense, moist.										
602													
	32												
600			(ML) Gray SILT, trace fine to coarse sand, trace fine gravel, dense, dry.	SS-11	33.5-35	18/18	25 25 16	41	11.5	NA	0.0	0.0	
	34												
598													

LIB-CHICAGO GLOBETROTTERS GEOTECH GPJ GINT STD US LAB.GDT 6/9/13

URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-8RW

SHEET 3 OF 3

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Counts per 6"	Penetration Resistance 'N'	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Reading (ppm)	PID/FID Headspace (ppm)	REMARKS
596			(ML) Gray SILT, trace fine to coarse sand, trace fine gravel, dense, dry.										
	38												
594			(ML) Same as above, dry.	SS-12	38.5-40	18/18	42 50 for 5"	>100		NA	0.0	0.0	
592	40												
	42												
590			(ML) Same as above.	SS-13	43.5-45	6/18	50 for 5"	>100	8.6	NA	0.0	0.0	
588	44												
	46												
586			(ML) Same as above.	SS-14	48.5-50	12/18	12 50 for 5"	>100		NA	0.0	0.0	
584	48												
	50		End of boring at 50' bgs at 1430.										

LIB-CHICAGO GLOBETROTTERS GEOTECH GPJ GINT STD US LAB.GDT 6/9/13

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351
		CHECKED - JG	REVISED		
	PLOT SCALE = None	DRAWN - RJ	REVISED		SHEET NO. 192 OF 240 SHEETS
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED		

W15

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	192
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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URS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-9RW

SHEET 1 OF 2

Project: 25th Avenue Grade Seperator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.25	Boring Location: 1903650.82, 1112022.25	
Drilling Company: Earth Solutions	Date Started: 04/24/13	Date Finished: 04/24/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 30.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 28.5	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Pressure Resistance *tsf	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan/Head Space (ppm)	PID/ FID Bore Hole (ppm)	REMARKS
632	0		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1420.
	2		(FILL) Brown, fine to coarse WELL GRADED SAND AND GRAVEL, (SW), dry.	SS-1	1-2.5	10/18	8 13 7	20		3.0	0.0	0.0	
630	4		(CL) Dark brown SILTY CLAY, low plasticity, medium stiff, some fine to medium sand and gravel, dry.										
			(CL) Dark brown CLAY, trace fine to coarse sand, trace fine to medium gravel, brown mottling, very stiff, low plasticity, moist.	SS-2	3.5-5	18/18	4 5 6	11	19.8	3.0, 2.5*	0.0	0.0	
626	6												
			(CL) Brown CLAY, trace fine gravel, trace fine to coarse sand, very stiff, low plasticity, moist.	SS-3	6-7.5	18/18	8 10 12	22	19.7	3.0	0.0	0.0	
624	8												
				SS-4	8.5-10	18/18	10 15 20	35	17.1	2.5	0.0	0.0	
622	10												
	12		(CL) Gray SILTY CLAY, medium stiff, high plasticity, trace fine gravel, moist.	SS-5	11-12.5	18/18	6 10 12	22	17.4	3.5; 3.4*	0.0	0.0	
620	14		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.										
				SS-6	13.5-15	18/18	8 10 12	22	16.5	3.5	0.0	0.0	
618													

URS-CHICAGO GLOBETROTTERS GEOTECH.GDT GINT STD US LAB.GDT 6/6/13

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CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-9RW

SHEET 2 OF 2

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Pressure Resistance *tsf	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan/Head Space (ppm)	PID/ FID Bore Hole (ppm)	REMARKS
616	18		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-7	16-17.5	18/18	4 8 12	20	16.8	3.75	0.0	0.0	
614	20		(ML) Gray CLAYEY SILT, little fine to coarse sand, trace fine to coarse gravel, very dense, dry.	SS-8	18.5-20	18/18	13 26 36	62	12.1	NA	0.0	0.0	
612	22												
	24			SS-9	23.5-25	18/18	18 21 37	58	11.5	NA	0.0	0.0	SS-9: LL: 27; PL: 14; PI: 13.
608	26												
606	28		(SM) Gray, fine SILTY SAND, very dense, poorly graded, wet.	SS-10	28.5-30	17/18	21 26 14	40		NA	0.0	0.0	
604	30		End of boring at 30' bgs at 1535.										

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LOG OF BORING SB-10RW

SHEET 1 OF 2

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.22	Boring Location: 1903690.99, 1112058.85	
Drilling Company: Earth Solutions	Date Started: 04/22/13	Date Finished: 04/22/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 30.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 9.5	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Waxali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Pressure Resistance *tsf	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan/Head Space (ppm)	PID/ FID Bore Hole (ppm)	REMARKS
632	0		(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Move boring 1' NW due to abandoned line encountered.
	2		(SC) Dark brown CLAYEY SAND, trace fine gravel, moist.	SS-1	2-3.5	13/18	5 5 9 4			NA	0.0	0.0	
630	4		No recovery from 3.5-5' bgs.	SS-2	3.5-5	0/18	2 2 4 2			NA	0.0	0.0	
628	6		(CL) Gray SILTY CLAY, very soft, high plasticity, trace fine gravel, light brown mottling, moist.	SS-3	6-7.5	18/18	3 6 8 6	14	18.4	0.75	0.0	0.0	
626	8												
624	10		(CL) Brown SILTY CLAY, soft, high plasticity, trace fine gravel, very moist.	SS-4	8.5-10	18/18	4 6 8	19	20.9	2.0	0.0	0.0	
			(ML) Light brown CLAYEY SILT, wet.										
622	12		(ML) CLAYEY SILT, moist.	SS-5	11-12.5	18/18	4 5 8	13	16.7	NA	0.0	0.0	
620	14		(CL) Gray SILTY CLAY, medium stiff, high plasticity, trace fine gravel, moist.										
			(CL) Gray SILTY CLAY.	3T	13.5-16	30/30				3.5	0.0	0.0	Collect shelby tube from 13.5-16' bgs. 3T: LL: 30; PL: 16; PI: 14.
616													

URS-CHICAGO GLOBETROTTERS GEOTECH.GDT GINT STD US LAB.GDT 6/6/13

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-6351
SHEET NO. 193 OF 240 SHEETS

W16

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	193
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-10RW
SHEET 2 OF 2

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
			(CL) Gray SILTY CLAY.										
616	16		(ML) Gray CLAYEY SILT, trace fine to medium gravel, moist.										
614	20			SS-6	18.5-20	18/18	4 9 15	24	14.8	NA	0.0	0.0	
612	22												
610	24		(ML) Gray CLAYEY SILT, trace fine gravel, moist.	SS-7	23.5-25	18/18	12 14 17	31	13.2	NA	0.0	0.0	
606	28												
604	30		(ML) Gray CLAYEY SILT, moist. (SP) Gray, fine to medium POORLY GRADED SAND, dry.	SS-8	28.5-30	18/18	14 22 30	52		NA	0.0	0.0	
			End of boring at 30' bgs at 1840.										

USRCHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-11RW-PSI
SHEET 1 OF 2

Project: 25th Avenue Grade Separator	Project No.: 25368005.3000		
Location: Melrose Park/Bellwood, IL	Elevation: 633.29	Boring Location: 1903727.01, 1112019.22	
Drilling Company: Earth Solutions	Date Started: 04/24/13	Date Finished: 04/24/13	
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA	Rock Depth (ft bgs): NA	Completion Depth (ft bgs): 25.0
Drilling Method: Mud Rotary	Water Level (ft bgs)		
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: NA	Water Level After Drilling: NA	
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna	Geologist: Junaluska Williams	
Boring Location Description:	Reviewed by: Mark Wagali		

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
632	0		(ASPHALT).										*Uncontined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 1300. Collect sample SB-11RW-PSI from 2-4' bgs at 1305.
630	2		(CL) Greenish gray to light brown SILTY CLAY, medium stiff, high plasticity, some fine to medium gravel, brown mottling.	SS-1	2-4	14/24	8 10 12 14	22	19.8	3.0	0.0	0.0	
628	4		(CL) Brown and gray mottled SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, stiff, low plasticity, moist.	SS-2	4-6	17/24	3 3 4 5	7	22.4	1.0	0.0	0.0	
625	6		(CL) Same as above, moist.	SS-3	6-8	24/24	3 3 4 5	7	18.9	0.75; 0.5*	0.0	0.0	
624	8		(CL) Brown SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, stiff, low plasticity, moist.	SS-4	8-10	24/24	4 4 6 6	10	19.6	1.0	0.0	0.0	
622	10		(CL) Brown SILTY CLAY, soft, trace fine gravel, moist.	SS-5	10-12	24/24	4 6 10 10	18	13.0	1.75	0.0	0.0	
620	12		(CL) Gray SILTY CLAY, trace fine to coarse sand, trace fine to coarse gravel, very stiff, low plasticity, moist.	SS-6	12-14	21/24	4 4 8 10	12	17.9	2.75	0.0	0.0	
618	14												

USRCHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-11RW-PSI
SHEET 2 OF 2

ELEV	DEPTH	Graphic	DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/ FID Scan (ppm)	PID/ FID Head (ppm)	REMARKS
616	16		(CL) Gray SILTY CLAY, soft, high plasticity, trace fine gravel, moist.	SS-7	16-17.5	18/18	4 3 3	14	17.8	1.75	0.0	0.0	
614	20		(ML) Gray CLAYEY SILT, trace fine sand, medium dense, moist.	SS-8	18.5-20	18/18	3 4 6	10	19.8	NA	0.0	0.0	
612	22												
610	24		(ML) Gray CLAYEY SILT, trace fine to coarse sand, dense, dry.	SS-9	23.5-25	18/18	17 14 27	41	14.2	NA	0.0	0.0	
			End of boring at 25' bgs at 1350.										

USRCHICAGO GLOBETROTTERS GEOTECH.GPJ GINT STD US LAB.GDT 6/9/13

W17

Globetrotters® Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 016-6351	F.A.U RTE.	SECTION	COUNTY
		CHECKED - JG	REVISED			2714	99-00094-00-GS	COOK
	PLOT SCALE = None	DRAWN - RJ	REVISED		SHEET NO. 194 OF 240 SHEETS			
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED					

TOTAL SHEETS	SHEET NO.
240	194

CONTRACT NO. 63887
ILLINOIS FED. AID PROJECT

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URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-12RW
SHEET 1 OF 2

Project: 25th Avenue Grade Separator	Project No.: 25369005.3000
Location: Melrose Park/Bellwood, IL	Elevation: 632.72 / Boring Location: 1903771.23, 1112056.22
Drilling Company: Earth Solutions	Date Started: 04/24/13 / Date Finished: 04/24/13
Drilling Equipment: Track-mounted Diedrich D-120	Refusal Depth (ft bgs): NA / Rock Depth (ft bgs): NA / Completion Depth (ft bgs): 25.0
Drilling Method: Mud Rotary	Water Level (ft bgs)
Drill Bit Type/Diameter: 3.25" ID HSA (casing), Tri-cone bit	Water Level During Drilling: 3.5 / Water Level After Drilling: NA
Sampler Type/Diameter: 2" OD, Split-Barrell Sampler	Driller: Juan Luna / Geologist: Junaluska Williams
Boring Location Description:	Reviewed by: Mark Waxali

DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
(ASPHALT).										*Unconfined compressive strength of soil samples determined using RIMAC (ASTM D2166). Begin drilling at 0925.
(FILL) RED BRICK, dry. (FILL) Dark brown CLAY, low plasticity, stiff, some fine to medium gravel, dry.	SS-1	2-3.5	12/18	6 8 10	18	21.1	3.0	0.0	0.0	Collect sample SB-12RW from 3-4' bgs at 0935.
(FILL) Dark gray, fine CLAYEY SAND, (SC), medium dense, wet.	SS-2	3.5-5	11/18	3 5 5	10		NA	0.0	0.0	Encountered dark gray, oily soil; odor.
(FILL) Brown, fine POORLY GRADED SAND, (SP).										
(FILL) RED BRICK. (FILL) Brown CLAYEY SAND AND GRAVEL. (FILL) Dark gray, fine CLAYEY SAND, (SC).	SS-3	6-7.5	11/18	38 9 9	18		NA	0.0	0.0	Odor.
(ML) Brown CLAYEY SILT, trace fine to coarse sand, medium dense, low plasticity, moist to wet.	SS-4	8.5-10	17/18	9 9 15	14	24.1	3.0	0.0	0.0	
(CL) Gray SILTY CLAY, trace fine to coarse sand, stiff, low plasticity, moist.	SS-5	11-12.5	18/18	3 6 10	16	16.9	2.0; 2.5*	0.0	0.0	
	SS-6	13.5-15	16/18	7 10 15	25	16.8	3.0	0.0	0.0	
(ML) Gray CLAYEY SILT,.										

ELEV: 632, 630, 628, 626, 624, 622, 620, 618
DEPTH: 2, 4, 6, 8, 10, 12, 14

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ OINT STD US LAB.GDT 6/18/13

URS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING SB-12RW
SHEET 2 OF 2

DESCRIPTION	Sample Type And No.	Depth Interval	Rec (in)	Blow Count per 6"	Penetration Resistance "N"	Moisture Content	Unconfined Compressive Strength (TSF)	PID/FID Scan (ppm)	PID/FID Head (ppm)	REMARKS
(ML) Gray CLAYEY SILT, trace fine to coarse sand, medium dense, low plasticity, moist.	SS-7	16-17.5	16/18	3 6 10	16	14.9	NA	0.0	0.0	
(CL) Gray SILTY CLAY, little fine to coarse sand, trace fine gravel, very stiff, low plasticity, moist.	SS-8	18.5-20	14/18	5 7 11	18	13.3	3.0	0.0	0.0	
(CL) Same as above.	SS-9	23.5-25	17/18	10 18 20	38	14.0	3.0; 2.9*	0.0	0.0	

ELEV: 616, 614, 612, 610, 608
DEPTH: 18, 20, 22, 24

End of boring at 25' bgs at 1030.

URS-CHICAGO GLOBETROTTERS GEOTECH.GPJ OINT STD US LAB.GDT 6/18/13

Globetrotters Engineering Corporation	USER NAME = stephen.schuh	DESIGNED - RD	REVISED
		CHECKED - JG	REVISED
	PLOT SCALE = None	DRAWN - RJ	REVISED
	PLOT DATE = 3/21/2014	DATE - 3-24-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-6351
SHEET NO. 195 OF 240 SHEETS

W18

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	195
		CONTRACT NO. 63887		

ILLINOIS FED. AID PROJECT

P:\projects\12024\000\S\CADD Sheets\MSE Wall-W18-Boring Data-9.dgn
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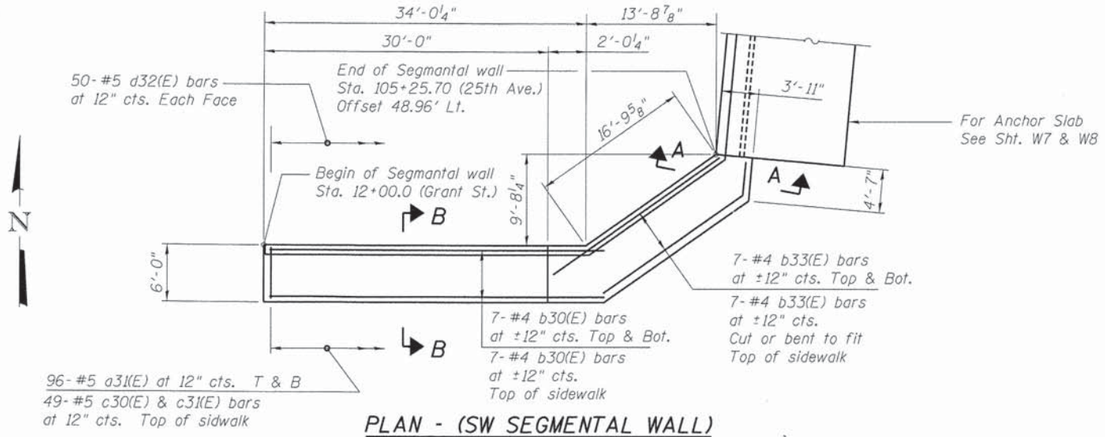
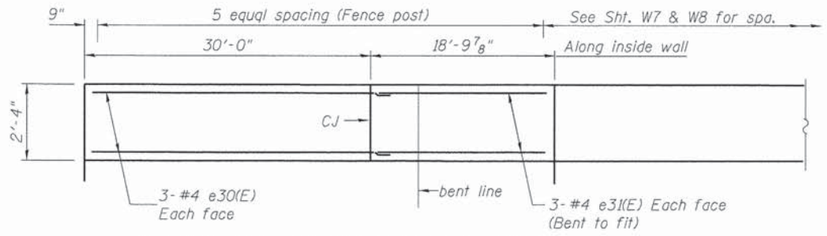
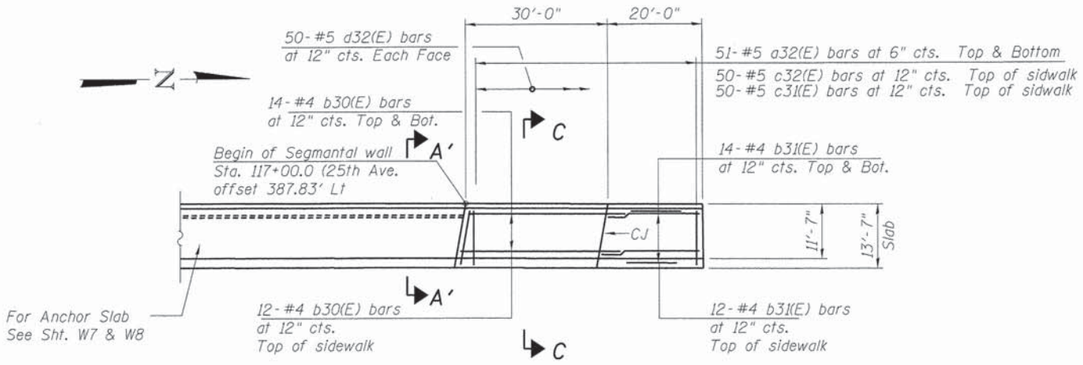


PLAN - (SW SEGMENTAL WALL)



ELEVATION - (SW SEGMENTAL WALL)



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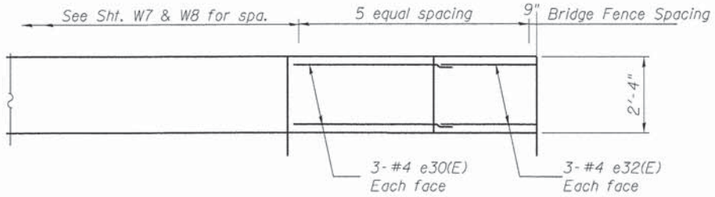
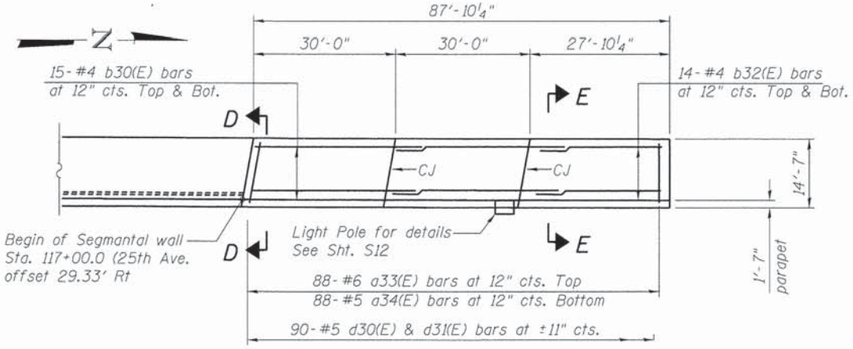
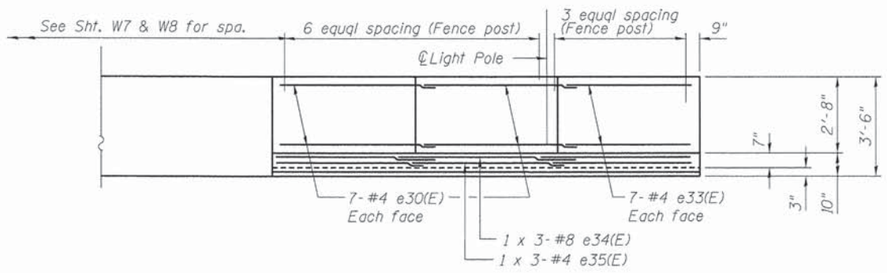


ELEVATION - (NW SEGMENTAL WALL)



PLAN - (NE SEGMENTAL WALL)



ELEVATION - (NE SEGMENTAL WALL)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Segmental Wall	Sq. Ft.	358
Conc. Super Struct. (Appr. Overhang)	Cu. Yd.	111
Protective Coat	Sq. Yd.	592
Reinf. Bar, Epoxy-Ctd (Appr. Overhang)	Pound	15204
Bridge Fence Railing (Sidewalk)	Foot	101
Bridge Fence Railing	Foot	88

RET-1

Globetrotters® Engineering Corporation

USER NAME = robertesquivel	DESIGNED - RD	REVISED
	CHECKED - DP	REVISED
PLOT SCALE = NONE	DRAWN - RJ	REVISED
PLOT DATE = 3-24-2014	CHECKED - RD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEGMENTAL CONCRETE BLOCK WALLS
25TH AVENUE GRADE SEPARATION
SHEET NO. 1 OF 2 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	196
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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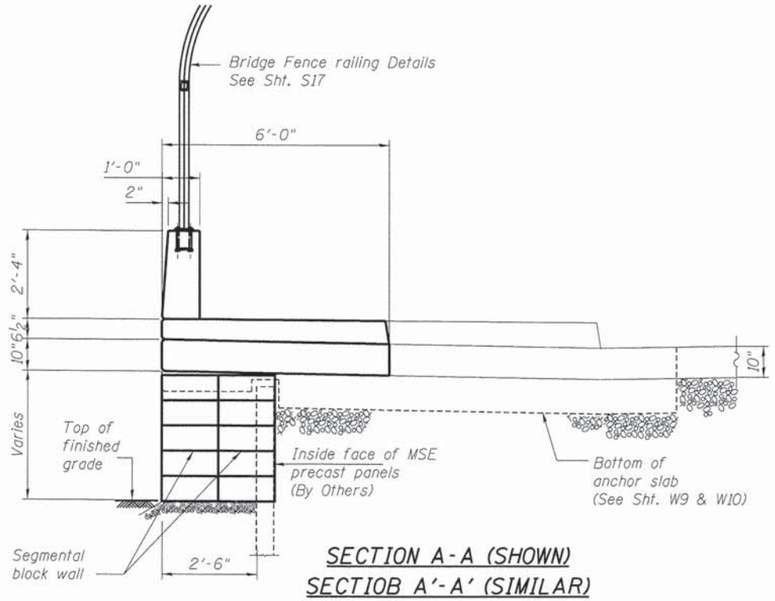
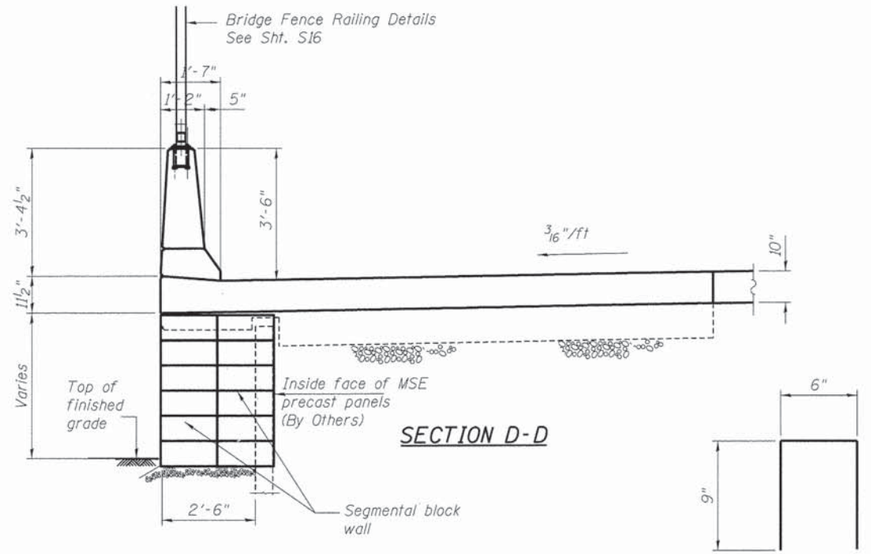


SECTION A-A (SHOWN)
SECTIOB A'-A' (SIMILAR)

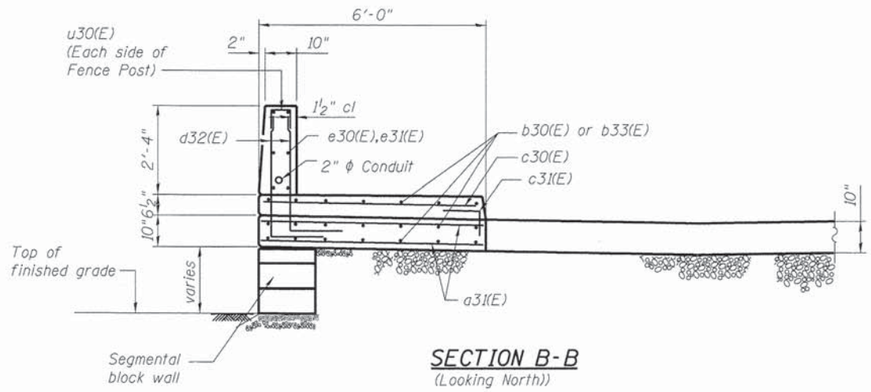


SECTION D-D

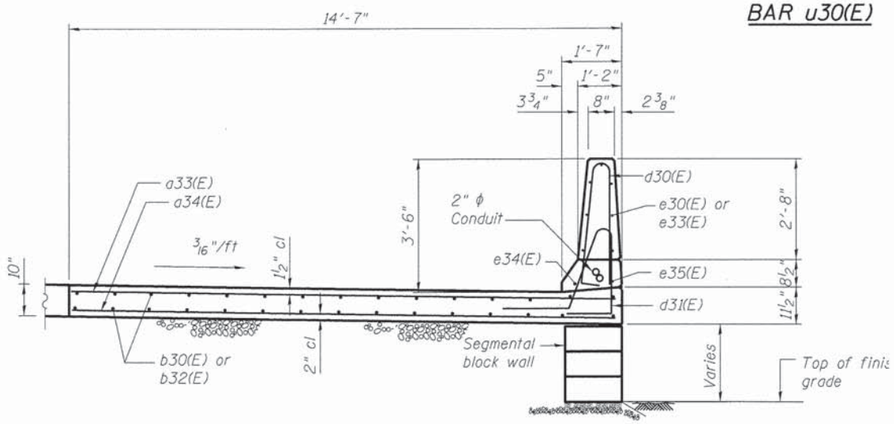
BAR u30(E)

BILL OF MATERIAL

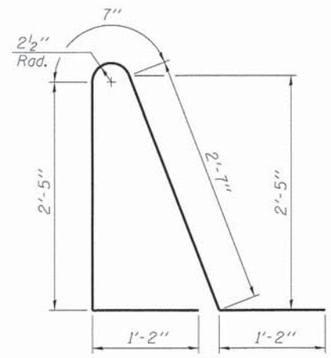
Bar	No.	Size	Length	Shape
a31(E)	96	#5	5'-8"	
a32(E)	102	#5	13'-3"	
a33(E)	88	#6	14'-3"	
a34(E)	88	#5	14'-3"	
b30(E)	91	#4	32'-6"	
b31(E)	40	#4	19'-8"	
b32(E)	28	#4	27'-6"	
b33(E)	21	#4	18'-6"	
c30(E)	49	#5	5'-8"	
c31(E)	99	#5	1'-9"	
c32(E)	50	#5	13'-3"	
d30(E)	90	#5	6'-10"	
d31(E)	90	#5	7'-11"	
d32(E)	203	#5	5'-1"	
d33(E)	6	#5	8'-11"	
e30(E)	40	#4	32'-6"	
e31(E)	6	#4	18'-6"	
e32(E)	6	#4	19'-8"	
e33(E)	6	#4	27'-6"	
e34(E)	3	#8	31'-10"	
e35(E)	3	#4	30'-8"	
u30(E)	46	#4	2'-0"	
Conc. Superstruct.			Cu. Yd.	
Rebar, Epoxy-Coated			lbs	
Protection Coat			Sq. Yd.	



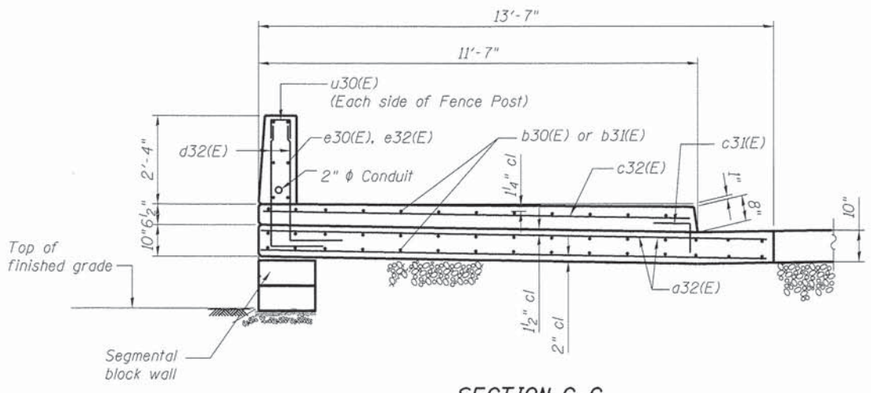
SECTION B-B
(Looking North))



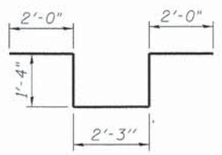
SECTION E-E



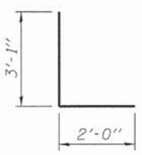
BAR d31(E)



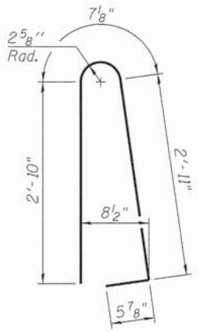
SECTION C-C
(Looking North))



BAR d33(E)
(At Light Post)



BAR d32(E)
(3-At Light Post)



BAR d30(E)

RET-2

Globetrotters® Engineering Corporation	USER NAME = robert.esquivel	DESIGNED - RD	REVISED
		CHECKED - DP	REVISED
	PLOT SCALE = NONE	DRAWN - RJ	REVISED
	PLOT DATE = 3-24-2014	CHECKED - RD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEGMENTAL CONCRETE BLOCK WALLS
25TH AVENUE GRADE SEPARATION
SHEET NO. 2 OF 2 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714	99-00094-00-GS	COOK	240	197
		CONTRACT NO. 63887		
	ILLINOIS FED. AID PROJECT			

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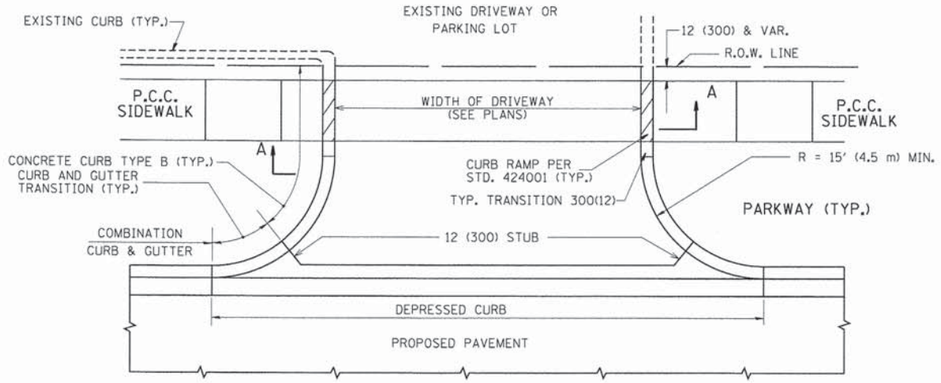
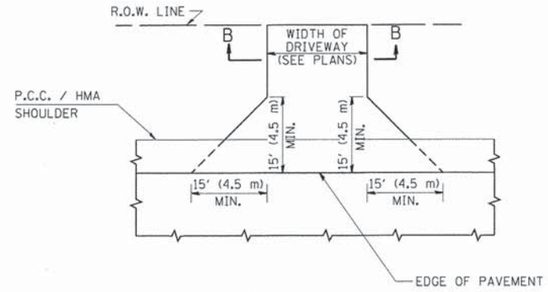
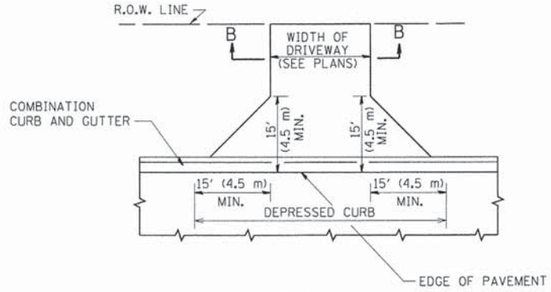


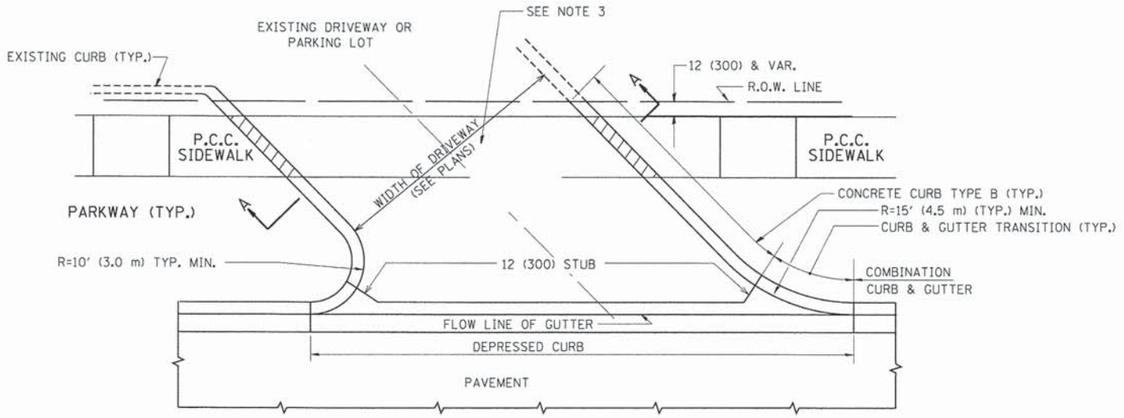
WITH CONCRETE CURB, TYPE B



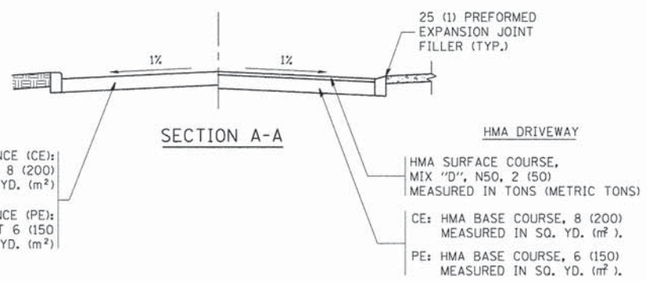
ADJACENT TO P.C.C. / HMA SHOULDER

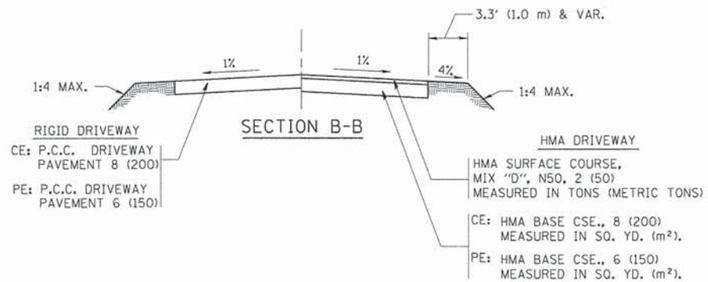


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

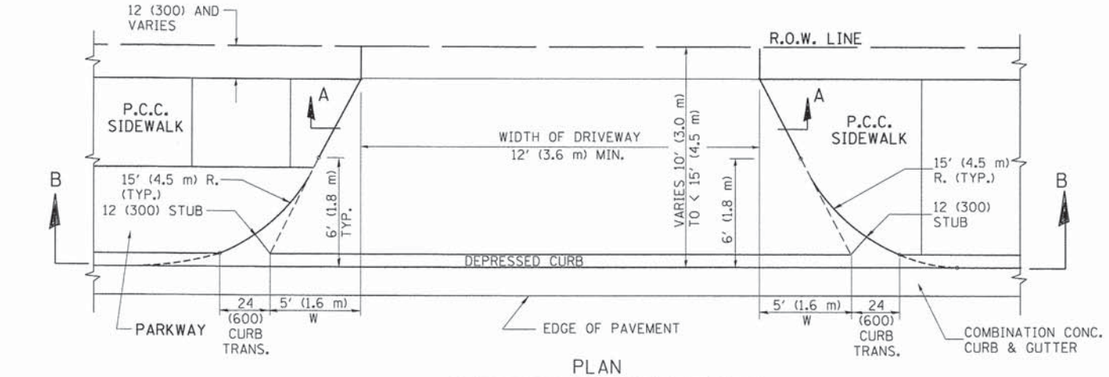
FILE NAME = c:\pw_work\pwidot\leysa\d0108315\bd01.dgn	USER NAME = leysa	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

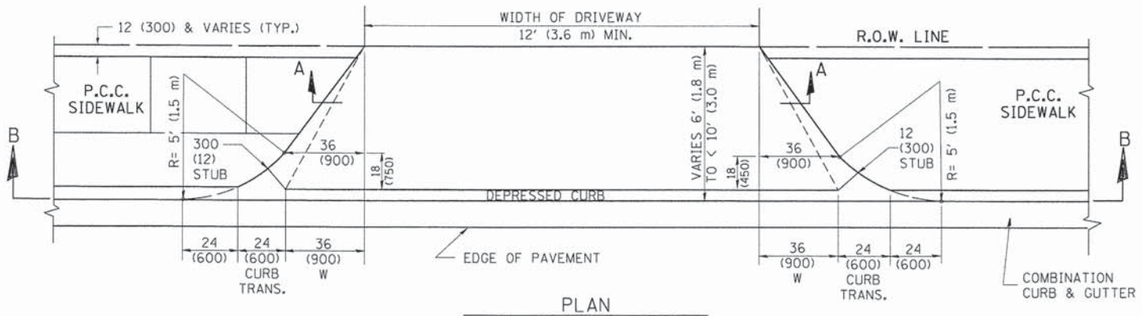
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714			240	198
	BD0156-07 (BD-01)	CONTRACT	63887	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



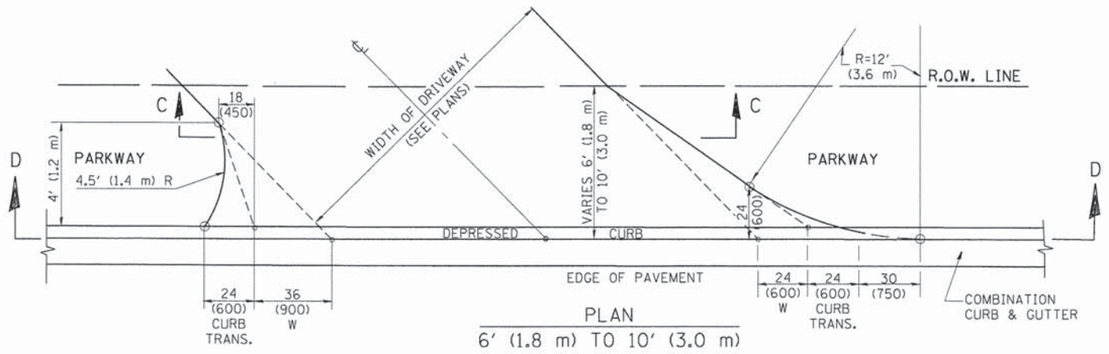
PLAN

10' (3.0 m) TO < 15' (4.5 m)



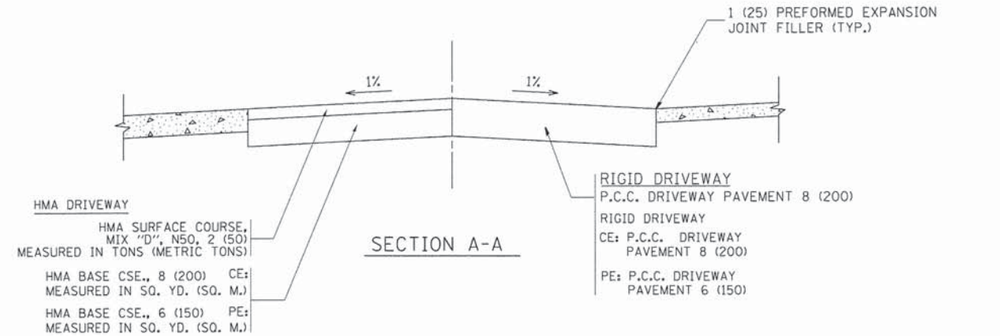
PLAN

6' (1.8 m) TO < 10' (3.0 m)

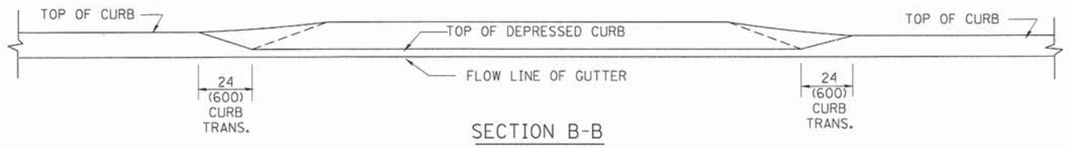


PLAN

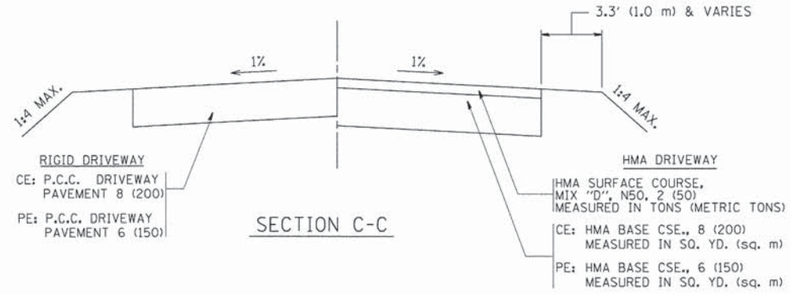
6' (1.8 m) TO 10' (3.0 m)



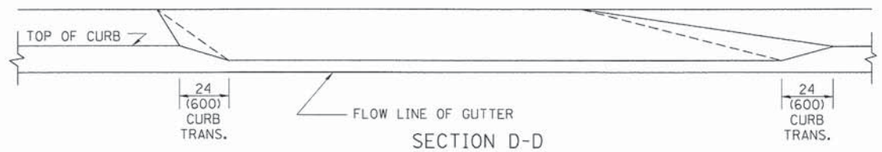
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

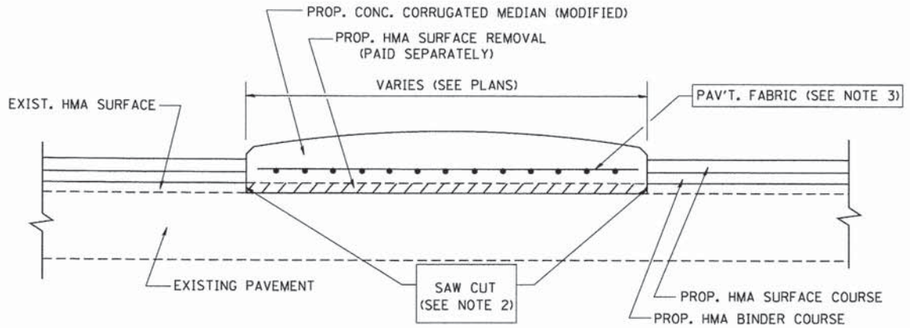
FILE NAME = c:\pw_work\pwidot\leysa\d0108315\bd02.dgn	USER NAME = leysa	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
		DRAWN -	REVISED - P. LoFLEUR 04-15-03
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 10/26/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

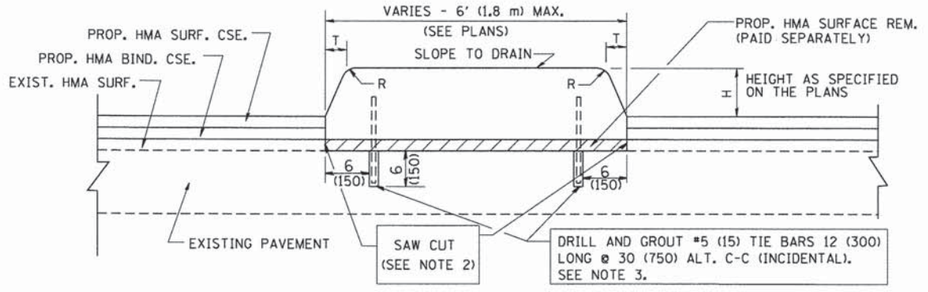
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714			240	199
	BD400-02 (BD-02)	CONTRACT 63887		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd05.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)**
		DRAWN -	REVISED - R. SHAH 10-25-94		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - E. GOMEZ 08-28-00		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/4/2008	DATE - 05-14-90	REVISED - R. BORO 01-01-07		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2714			240	200
	BD600-02 (BD-5)	CONTRACT 63887		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		