

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

7400 (12) COLLECTOR 0.2 (PCC-20)
 DESIGN SPEED = 25 MPH
 POSTED SPEED = 25 MPH

TRAFFIC DATA

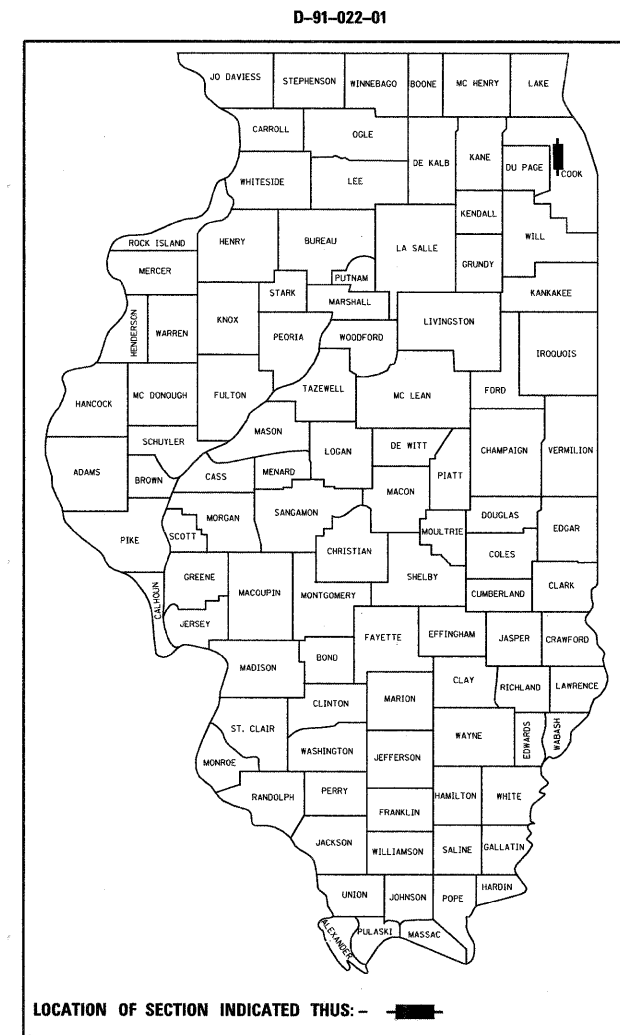
EXISTING ADT = 7,400 (2006)
 PROPOSED ADT = 8,000 (2030)

THESE IMPROVEMENTS IS LOCATED
 WITHIN THE VILLAGE OF MELROSE PARK

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

**F.A.U. 2742 (5TH AVENUE)
 OVER SILVER CREEK
 SECTION 3222-W-BR
 PROJECT: BRM-2742(006)
 BRIDGE REPLACEMENT
 COOK COUNTY
 C-91-022-01**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 62116	

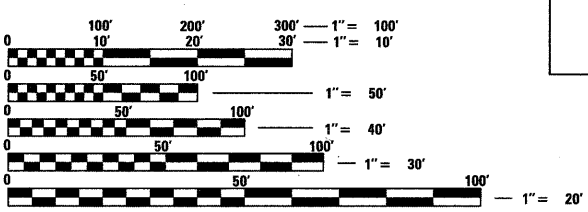


END IMPROVEMENTS
 STA. 35+18

THE PROJECT CONSISTS OF THE
 REPLACEMENT OF SN: 016-0691 WITH
 SN: 016-2818 OVER SILVER CREEK;
 RECONSTRUCTION OF 5TH AVENUE
 FROM STA. 35+18 TO STA. 37+94

END IMPROVEMENT
 STA. 37+94

SN: 016-2818 STA. 36+54
 SINGLE SPAN REINFORCED CONCRETE SLAB
 STRUCTURE ON INTEGRAL ABUTMENTS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
 ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
 CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
 ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

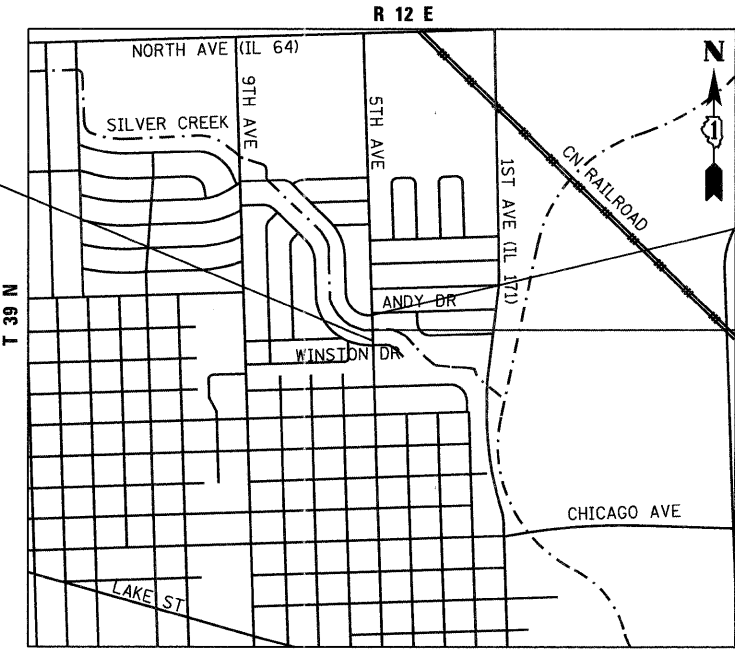
PROJECT ENGINEER: ROBERT BORO
PROJECT MANAGER: ISSAM RAYYAN

CONTRACT NO. 62116

Ciorba Group, Inc.

DESIGN FIRM
 REGISTRATION NUMBER
 184-001016

CONSULTING ENGINEERS
 SUITE 402, 5507 NORTH CUMBERLAND AVE
 CHICAGO, ILLINOIS 60656 :: (773) 775-4009



LOCATION MAP
 1" = 1,000'

GROSS AND NET LENGTH OF PROJECT = 276 FT = 0.05 MI.

MATTHEW J. LEHMAN
 062-057159
 LICENSED
 PROFESSIONAL
 ENGINEER
 OF
 ILLINOIS
Matthew J. Lehman
 DATE: 10/25/2011
 SEAL EXPIRES: 11/30/2013

SALVATORE C. DI FERDINANDO
 081-005930
 LICENSED
 STRUCTURAL
 ENGINEER
 STATE OF
 ILLINOIS
Salvatore C. Di Ferdinando
 DATE: 10/25/2011
 SEAL EXPIRES: 11/30/2012

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 25, 2011

Diane M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 2011
Scott E. Stitt P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2011
William R. Frey
 Interim DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: ROBERT BORO (847)705-4237


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STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420111-03	PCC PAVEMENT ROUNDOUTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
424001-06	CURB RAMP FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAMES AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701311-03	LANE CLOSURE, 2L, 2W, MOVING DAY OPERATIONS-DAY ONLY
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-05	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
814001-02	HANDHOLES

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 ENGINEERING CONSULTANT Clorba Group, Inc. CONSULTING ENGINEERS <small>5017 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel: 773.775.4000 Fax: 773.775.4014 Email: clorba@clorba.com</small>	USER NAME = wlancoaster	DESIGNED - WBL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 2742 /5TH AVENUE OVER SILVER CREEK INDEX OF SHEETS AND STATE STANDARDS	F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 2
	PLOT SCALE = 1:0000' / IN.	CHECKED - MJL	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 62116	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 10/26/2011	DATE - 10/17/11	REVISED -							

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
2. THE VILLAGE OF MELROSE PARK DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION
3. 10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTER AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
7. FULL-DEPTH SAWCUTS SHALL BE MADE AS DIRECTED BY THE ENGINEER TO REMOVE THE EXISTING PAVEMENT, CURB AND GUTTER, DRIVEWAYS AND SIDEWALK. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE FOR THE ITEM BEING REMOVED.
8. STAGING PROCEDURES PRESENTED ARE THE SUGGESTED SEQUENCE OF OPERATIONS. THE CONTRACTOR MAY SUBMIT AN ALTERNATE STAGING PROPOSAL TO THE ENGINEER FOR APPROVAL.
9. ALL TEMPORARY PAVEMENT MARKINGS PROPOSED WITHIN THE WORK AREA SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION PHASE CHANGE.
10. FOR PAVEMENT MARKING, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS SHOWN.
11. MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AND OMISSIONS.
12. THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISORS AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
13. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT (708) 597-9800.

THE FOLLOWING NOMINAL QUANTITIES HAVE BEEN PROVIDED FOR USE AT THE ENGINEER'S DISCRETION TO REPLACE AND/OR EXTEND THE OUTFALLS ON THE FOUR CORNERS OF THE BRIDGE.

ITEM	QUANTITY
STORM SEWERS, CLASS A, TYPE 1, 12"	50 L.F.
STORM SEWERS, CLASS A, TYPE 1, 8"	50 L.F.
TRENCH BACKFILL	45 CU YD

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ENGINEERING CONSULTANT
 **Corba Group, Inc.**
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel. 773.775.4000 Fax 773.775.4014
 Email: Chicago@corba.com

USER NAME = wlancaester	DESIGNED - WBL	REVISED -
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	DATE - 10/17/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 2742 /5TH AVENUE
 OVER SILVER CREEK
 GENERAL NOTES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 3
CONTRACT NO. 62116				ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004	STRUCTURAL 0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	26	26	
20101100	TREE TRUNK PROTECTION	EACH	6	6	
20101200	TREE ROOT PRUNING	EACH	1	1	
20200100	EARTH EXCAVATION	CU YD	210	210	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	33	33	
20300100	CHANNEL EXCAVATION	CU YD	154		154
20800150	TRENCH BACKFILL	CU YD	57	57	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	450	450	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6	6	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	6	6	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6	6	
25200110	SODDING, SALT TOLERANT	SQ YD	450	450	
25200200	SUPPLEMENTAL WATERING	UNIT	14	14	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000400	PERIMETER EROSION BARRIER	FOOT	410	410	
28000510	INLET FILTERS	EACH	6	6	
28100107	STONE RIPRAP, CLASS A4	SQ YD	289		289
28200200	FILTER FABRIC	SQ YD	289		289
28400100	GABIONS	CU YD	16		16
31200100	STABILIZED SUBBASE 4"	SQ YD	83	83	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	6	6	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	220	220	
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SQ YD	750	750	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	120	120	

• DENOTES SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 2742 /5TH AVENUE
OVER SILVER CREEK
SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	4
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004	STRUCTURAL 0011
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	310	310	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,600	1,600	
42400800	DETECTABLE WARNINGS	SQ FT	50	50	
44000100	PAVEMENT REMOVAL	SQ YD	1,070	1,070	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	230	230	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	500	500	
44000600	SIDEWALK REMOVAL	SQ FT	2,640	2,640	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	3.0		3.0
50200100	STRUCTURE EXCAVATION	CU YD	246		246
50300225	CONCRETE STRUCTURES	CU YD	87.0		87.0
50300254	RUBBED FINISH	SQ FT	917		917
50300255	CONCRETE SUPERSTRUCTURE	CU YD	347.5		347.5
50300260	BRIDGE DECK GROOVING	SQ YD	423		423
50300300	PROTECTIVE COAT	SQ YD	695		695
50800105	REINFORCEMENT BARS	POUND	10,040		10,040
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	97,780		97,780
50800515	BAR SPLICERS	EACH	294		294
51500100	NAME PLATES	EACH	1		1
* 51603000	DRILLED SHAFT IN SOIL	CU YD	56.6		56.6
550A0030	STORM SEWERS, CLASS A, TYPE 1 8"	FOOT	50	50	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	91	91	
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	4	4	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	44		44
60107600	PIPE UNDERDRAINS 4"	FOOT	41	41	

* DENOTES SPECIALTY ITEM

ENGINEERING CONSULTANT

Clorba Group, Inc.
 CONSULTING ENGINEERS
 6607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60655
 Tel. 773.775.4008 Fax 773.775.4014
 Email: clorba@clorba.com

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 2742 /5TH AVENUE
 OVER SILVER CREEK
 SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 5
CONTRACT NO. 62116				ILLINOIS FED. AID PROJECT

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004	STRUCTURAL 0011
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2	
60255500	MANHOLES TO BE ADJUSTED	EACH	5	5	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2	
60500050	REMOVING CATCH BASINS	EACH	1	1	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	390	390	
66400105	CHAIN LINK FENCE, 4'	FOOT	91	91	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	120	120	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	240	240	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2,940	2,940	
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	30	30	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,040	1,040	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	135	135	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	135	135	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	15	15	
* 72000200	SIGN PANEL - TYPE 2	SQ FT	50	50	
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	5	5	
* 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	35	35	
* 72900100	METAL POST - TYPE A	FOOT	30	30	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	930	930	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	680	680	
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	330	330	

* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 2742 /5TH AVENUE
OVER SILVER CREEK
SUMMARY OF QUANTITIES**

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 6
CONTRACT NO. 62116				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004	STRUCTURAL 0011
				URBAN - 80% FEDERAL, 20% STATE	
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	60	60	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	55	55	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	15	15	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	15	15	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	300	300	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	20	20	
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	165	165	
* 81400200	HEAVY-DUTY HANDHOLE	EACH	1	1	
* 81702410	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 4	FOOT	360	360	
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,075	1,075	
X0322918	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER	EACH	2	2	
* X0323651	REMOVE AND REINSTALL EXISTING LIGHTING UNIT	EACH	1	1	
X0325405	FILL EXISTING STORM SEWERS	CU YD	0.2	0.2	
X0325670	CONCRETE BRIDGE RAIL, SIDEWALK MOUNTED	FOOT	121		121
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	86		86
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
XX000882	WOOD FENCE	FOOT	130	130	
Z0022800	FENCE REMOVAL	FOOT	290	290	
XX005968	TURBIDITY CURTAIN	SQ YD	115	115	
X7010218	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	EACH	1	1	
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	910	910	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Δ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	7	7	
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2	

* DENOTES SPECIALTY ITEM

Δ NON-PARTICIPATING (100% STATE)

ENGINEERING CONSULTANT
 **Clorba Group, Inc.**
 CONSULTING ENGINEERS
 6607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel. 773.775.4000 Fax 773.775.4014
 Email: clorba@clorba.com

USER NAME = wloncaster
 PLOT SCALE = 1:8000' / IN.
 PLOT DATE = 10/25/2011

DESIGNED - WBL
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REVISED -
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 REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 2742 /5TH AVENUE
 OVER SILVER CREEK
 SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	7
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004	STRUCTURAL 0011
Z0030340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	136		136
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	152		152
⊙ Z0076600	TRAINEES	HOUR	1,000	1,000	
Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	2	2	
Δ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	130	130	
Δ X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	525	525	

* DENOTES SPECIALTY ITEM
 ⊙ 0042
 Δ NON-PARTICIPATING (100% STATE)

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 ENGINEERING CONSULTANT Clorba Group, Inc. CONSULTING ENGINEERS <small>8507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60634 Tel. 773.775.4028 Fax 773.775.4014 Email: clorba@clorba.com</small>	USER NAME = wloncaster	DESIGNED - WBL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 2742 /5TH AVENUE OVER SILVER CREEK SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8" = 1' / IN.	DRAWN - WBL	REVISED -			2742	3222-W-BR	COOK	51	8
PLOT DATE = 10/25/2011	CHECKED - MJL	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 62116		ILLINOIS FED. AID PROJECT		
	DATE - 10/17/11	REVISED -						Rev.		

STATION	STAGE 1					STAGE 2				
	EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
WINSTON DRIVE TO ANDY DRIVE										
35+18.00 TO 35+50.00	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
35+18.00 TO 35+50.00	20.6	17.5	0.5	0.1	17.4	15.8	13.4	1.7	1.2	12.3
35+50.00 TO 36+00.00	25.5	21.6	4.3	5.8	15.8	22.0	18.7	2.2	9.3	9.5
36+00.00 TO 36+06.50	4.3	3.6	1.0	1.2	2.4	3.9	3.3	0.2	1.0	2.3
36+06.50 TO 36+31.50	12.7	10.8	3.7	8.9	1.8	12.4	10.5	1.6	5.2	5.3
BRIDGE										
36+76.50 TO 36+96.50	7.3	6.2	3.0	10.8	-4.6	6.4	5.4	2.3	10.1	-4.7
36+96.50 TO 37+00.00	1.5	1.3	0.6	1.5	-0.3	1.4	1.2	0.0	1.0	0.2
37+00.00 TO 37+50.00	14.1	12.0	5.0	15.7	-3.8	9.6	8.2	3.1	18.5	-10.3
37+50.00 TO 37+94.00	24.0	20.4	1.1	2.7	17.7	23.2	19.7	2.8	7.6	12.2
37+94.00 TO 38+00.00	2.9	2.5	0.0	0.0	2.5	2.7	2.3	0.0	0.0	2.3
NOMINAL QUANTITY TO TIE-IN TO PROPOSED GABIONS				4.0					4.0	
TOTALS	113	96	19	51	49	97	83	14	58	29

STABILIZED SUBBASE 4"				
STA	STA	LENGTH	WIDTH	SQ YD
35+94	36+03	9.0	41.5	41.5
37+00	37+09	9.0	41.5	41.5
TOTAL				83

AGGREGATE BASE COURSE, TYPE B					
STA	STA	LOCATION	LENGTH	WIDTH	TON
36+03	36+06	LT	3.0	8.1	1.4
36+03	36+06	RT	3.0	8.5	1.4
36+97	37+00	LT	3.0	8.2	1.4
36+97	37+00	RT	3.0	8.5	1.4
TOTAL					6

SUMMARY						
STAGE	EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
1	113	96	19	51	49	0
2	97	83	14	58	29	0
TOTAL	210	179	33	109	78	0

CATCH BASINS TO BE ADJUSTED		
STA	LOCATION	EACH
35+97	RT	1.0
37+84	RT	1.0
TOTAL		2.0

REMOVING CATCH BASINS		
STA	LOCATION	EACH
36+30	LT	1.0
TOTAL		1.0

DRAINAGE STRUCTURES TO BE CLEANED		
STA	LOCATION	EACH
35+97	RT	1.0
37+84	RT	1.0
34+46	LT	1.0
35+12	RT	1.0
37+88	LT	1.0
38+00	LT	1.0
38+49	RT	1.0
TOTAL		7.0

MANHOLES TO BE ADJUSTED		
STA	LOCATION	EACH
35+85	LT	1.0
37+02	RT	1.0
37+05	LT	1.0
37+07	LT	1.0
37+92	LT	1.0
TOTAL		5.0

STORM SEWERS TO BE CLEANED			
STA	STA	LOCATION	FOOT
34+46	36+36	LT	205.0
35+12	36+36	RT	130.0
36+67	38+00	LT	135.0
36+70	38+49	RT	185.0
TOTAL			655.0

VALVE VAULTS TO BE ADJUSTED		
STA	LOCATION	EACH
35+99	LT	1.0
37+13	LT	1.0
TOTAL		2.0



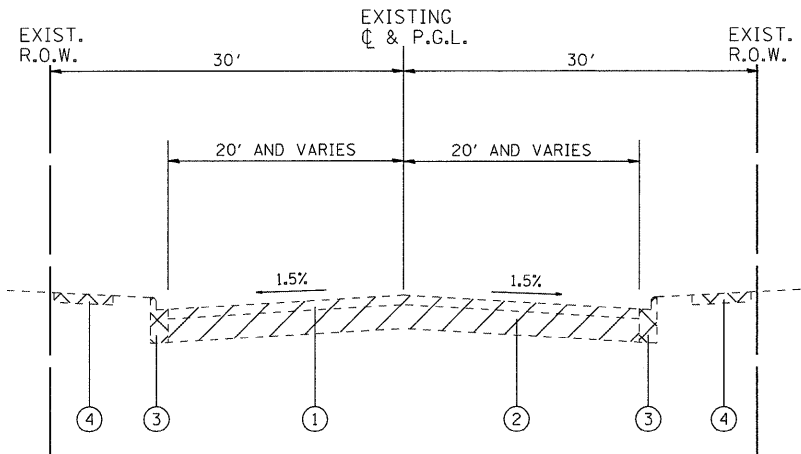
ENGINEERING CONSULTANT	USER NAME = wlancoaster	DESIGNED - WBL	REVISED -
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		CHECKED - MJL	REVISED -
		DATE - 10/17/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

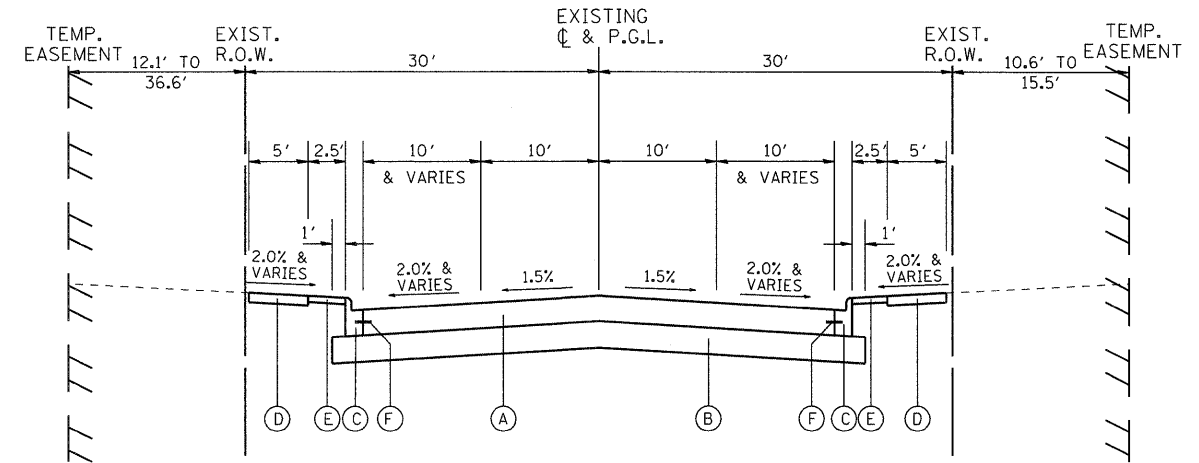
FAU 2742 /5TH AVENUE OVER SILVER CREEK SCHEDULE OF QUANTITIES	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 9
CONTRACT NO. 62116				ILLINOIS FED. AID PROJECT

Rev.



5TH AVENUE
EXISTING TYPICAL SECTION
STA. 35+18 TO STA. 36+11
STA. 36+97 TO STA. 37+94
(LOOKING NORTH)



5TH AVENUE
PROPOSED TYPICAL SECTION
STA. 35+18 TO STA. 35+94
STA. 37+09 TO STA. 37+94
(LOOKING NORTH)

5TH AVENUE

STRUCTURAL DESIGN FACTOR:	YEAR 2030	
PV = 7930	SU = 0	MU = 40
ROAD/STREET CLASSIFICATION:	CLASS I	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P = 2538	S = 0	M = 18
TRAFFIC FACTOR:	ACTUAL TF = 0.03	
	MINIMUM TF = 0.2	

EXISTING CONDITIONS:

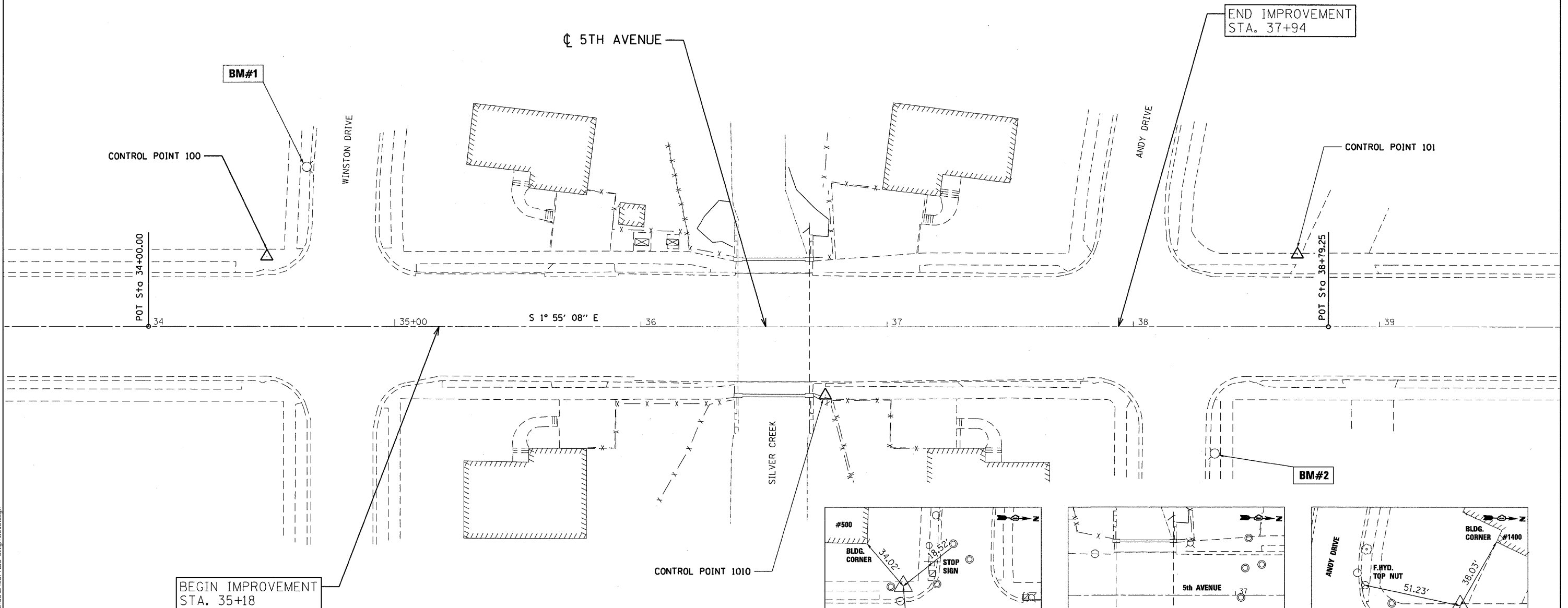
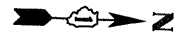
- ① HOT-MIX ASPHALT SURFACE AND BINDER COURSE 3" +/-
- ② PCC BASE COURSE, 9" +/-
- ③ COMBINATION CONCRETE CURB AND GUTTER
- ④ PCC SIDEWALK
- REMOVAL PAID AS PAVEMENT REMOVAL
- ☒ PAVEMENT REMOVAL
- ☒ SIDEWALK REMOVAL AND COMBINATION CURB AND GUTTER REMOVAL

PROPOSED IMPROVEMENTS:

- Ⓐ PORTLAND CEMENT CONCRETE PAVEMENT, 8" (JOINTED) (12' TRANSVERSE CONTRACTION JOINT SPACING)
- Ⓑ AGGREGATE SUBGRADE 12"
- Ⓒ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- Ⓓ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- Ⓔ SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4" NUTRIENTS
- Ⓕ EPOXY COATED TIE BARS, AS PER STANDARD 606001 (INCLUDED IN THE COST OF COMB. CONC. CURB AND GUTTER, TYPE B-6.12)

PROJECT COORDINATES

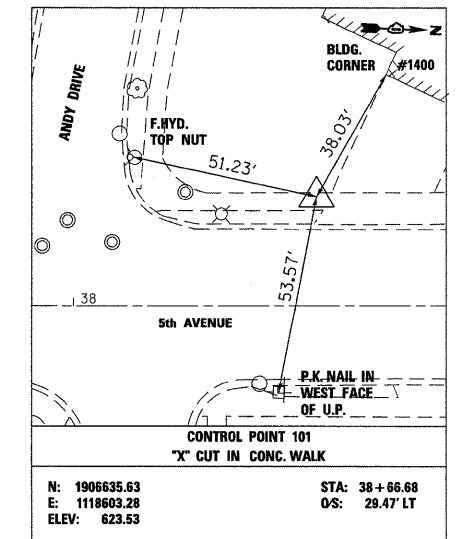
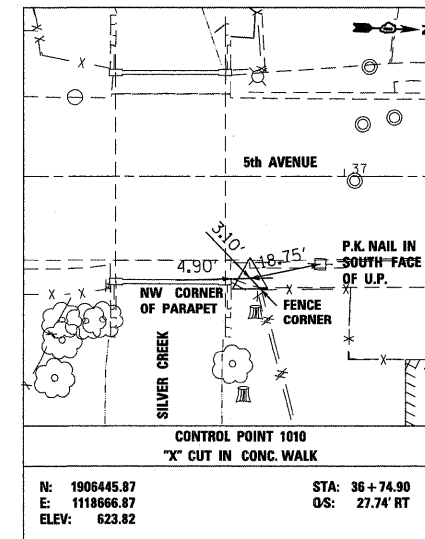
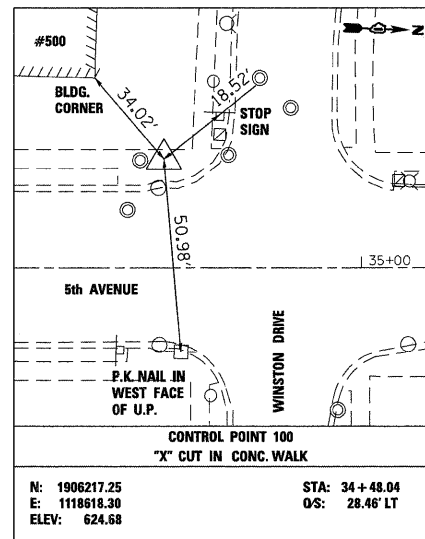
NUMBER	LOCATION	DESCRIPTION	STATION	NORTHING	EASTING
1	5TH - CL	P.O.T. STATION	34+00.00	1,906,170.20	1,118,648.36
2	5TH - CL	P.O.T. STATION	38+79.25	1,906,649.18	1,118,632.31



BEGIN IMPROVEMENT
STA. 35+18

END IMPROVEMENT
STA. 37+94

BM#	DESCRIPTION	ELEVATION
BM#1	SE B-BOLT OF FIRE HYDRANT @ SW CORNER OF 5TH AVENUE & WINSTON DRIVE	625.56
BM#2	NW B-BOLT OF FIRE HYDRANT @ NE CORNER OF 5TH AVENUE & ANDY DRIVE	625.24



ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.775.4200 Fax: 773.775.4014
Email: clorba@clorba.com

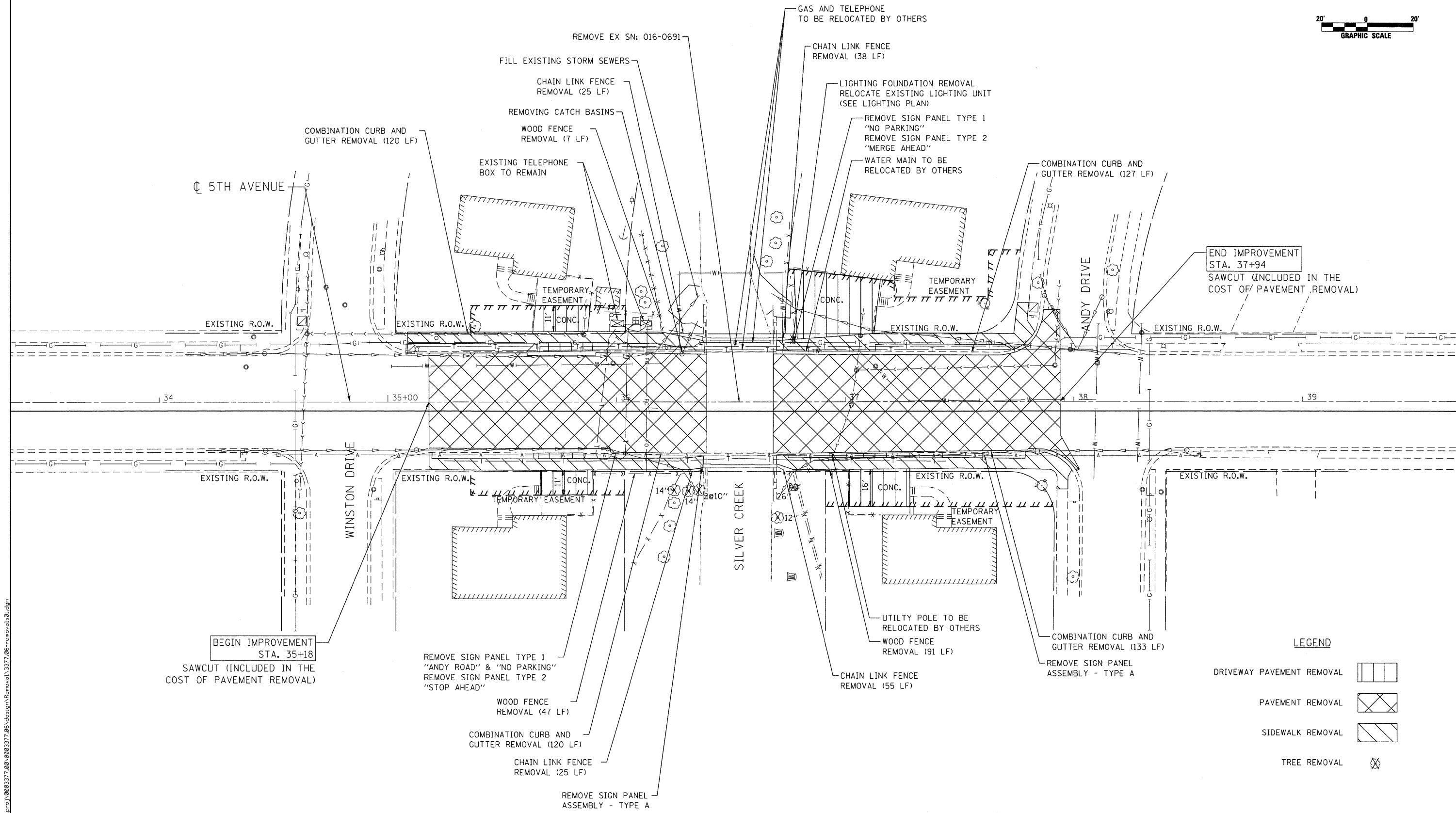
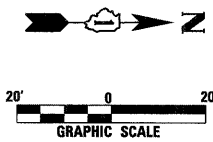
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PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED - MJL
	DATE - 10/17/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 2742 / 5TH AVENUE
OVER SILVER CREEK
ALIGNMENTS, TIES AND BENCHMARKS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	11
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				



BEGIN IMPROVEMENT
STA. 35+18
SAWCUT (INCLUDED IN THE
COST OF PAVEMENT REMOVAL)

REMOVE SIGN PANEL TYPE 1
"ANDY ROAD" & "NO PARKING"
REMOVE SIGN PANEL TYPE 2
"STOP AHEAD"

WOOD FENCE
REMOVAL (47 LF)

COMBINATION CURB AND
GUTTER REMOVAL (120 LF)

CHAIN LINK FENCE
REMOVAL (25 LF)

REMOVE SIGN PANEL
ASSEMBLY - TYPE A

END IMPROVEMENT
STA. 37+94
SAWCUT (INCLUDED IN THE
COST OF PAVEMENT REMOVAL)

LEGEND

DRIVEWAY PAVEMENT REMOVAL	
PAVEMENT REMOVAL	
SIDEWALK REMOVAL	
TREE REMOVAL	

ENGINEERING CONSULTANT

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60654
 Tel: 773.772.4200 Fax: 773.779.4014
 Email: ciorba@ciorba.com

USER NAME = w Lancaster	DESIGNED - WBL	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

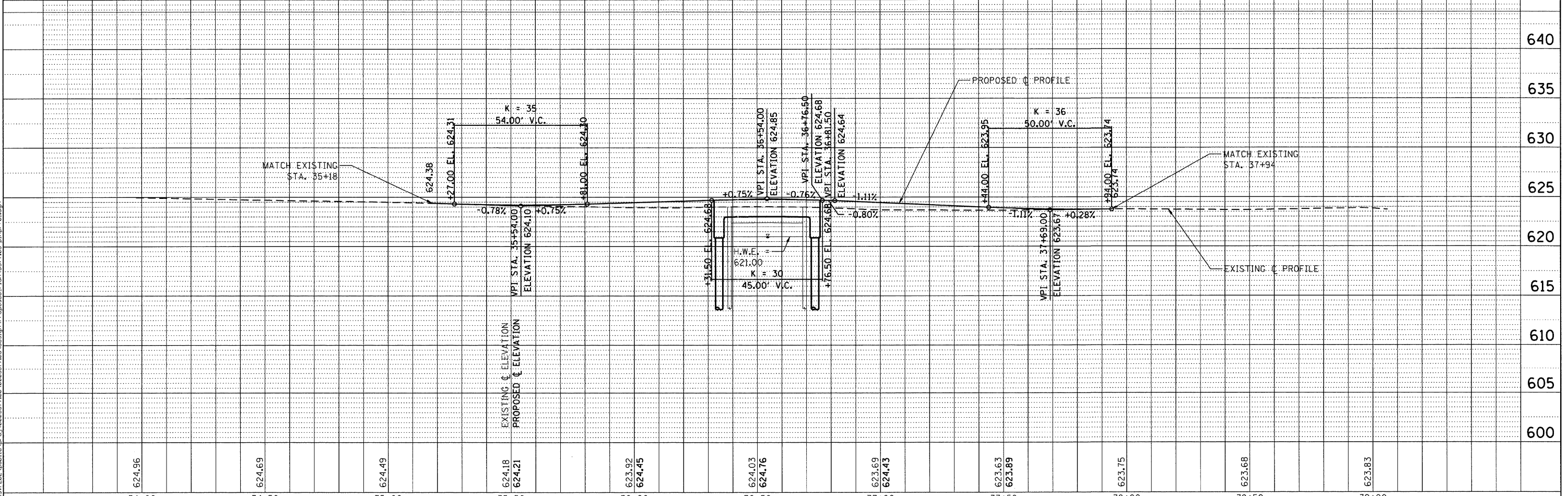
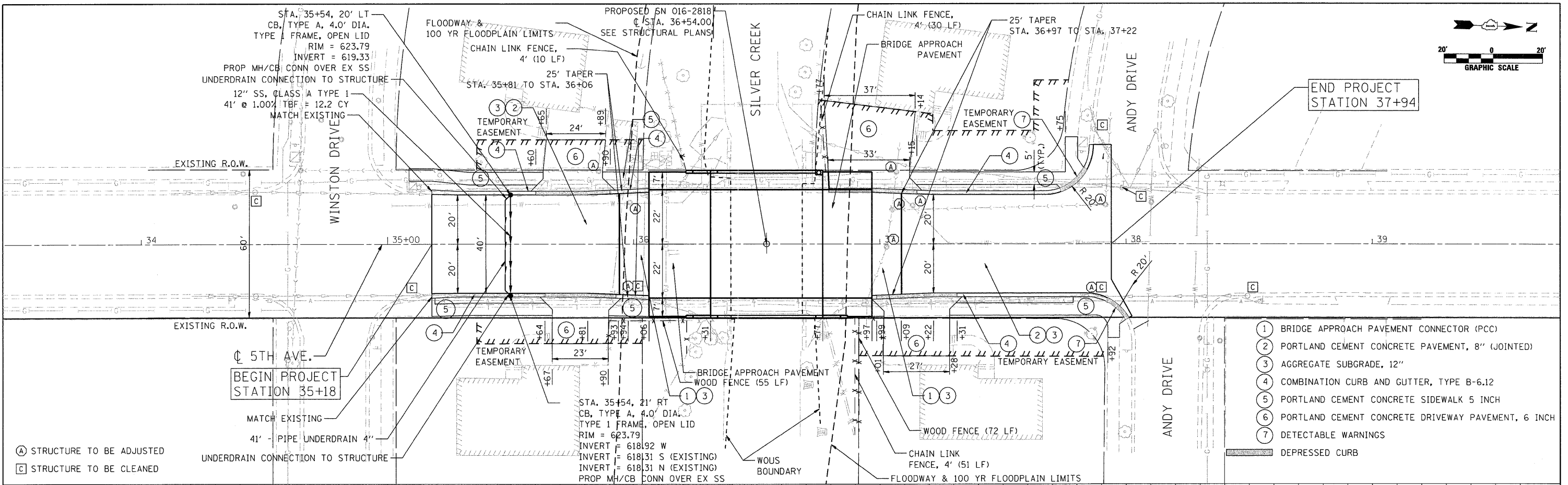
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 2742 / 5TH AVENUE
OVER SILVER CREEK
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	12
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

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624.96	624.69	624.49	624.18 624.21	623.92 624.45	624.03 624.76	623.69 624.43	623.63 623.89	623.75	623.68	623.83
34+00	34+50	35+00	35+50	36+00	36+50	37+00	37+50	38+00	38+50	39+00

ENGINEERING CONSULTANT
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 2007 North Granddallas Avenue, Suite 402
 Chicago, Illinois 60654
 Tel: 773.774.4000 Fax: 773.779.4014
 Email: drc@cgiorba.com

USER NAME = wlancoaster
 DESIGNED - WBL
 DRAWN - WBL
 CHECKED - MJL
 DATE - 10/17/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 2742 / 5TH AVENUE
OVER SILVER CREEK
PROPOSED PLAN AND PROFILE


SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

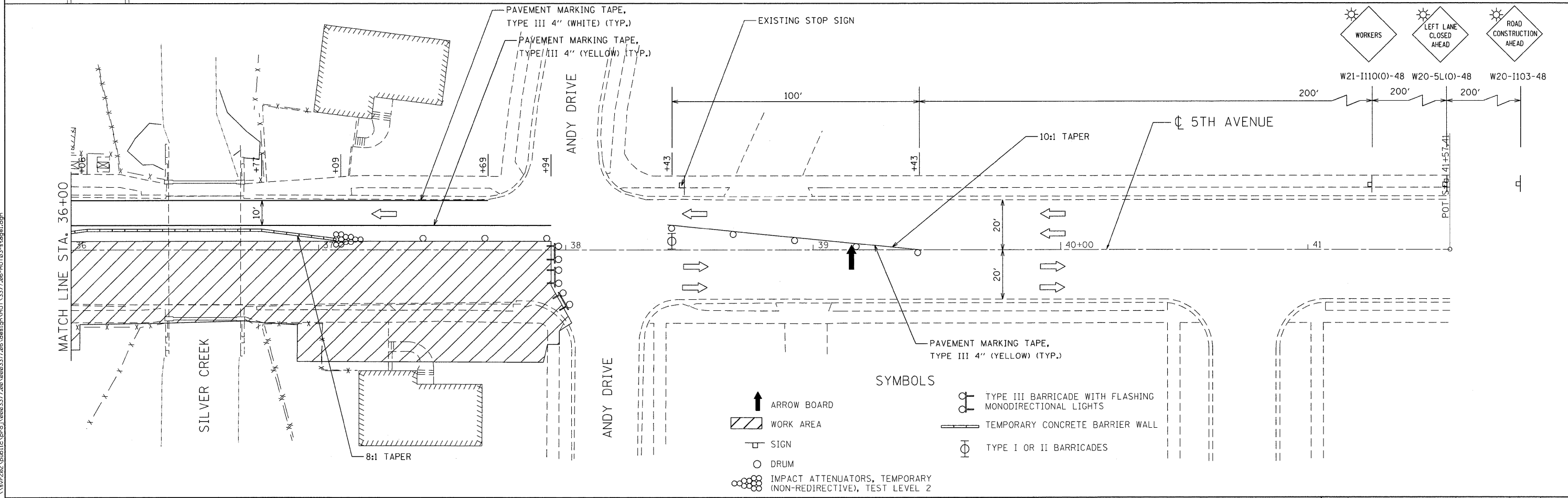
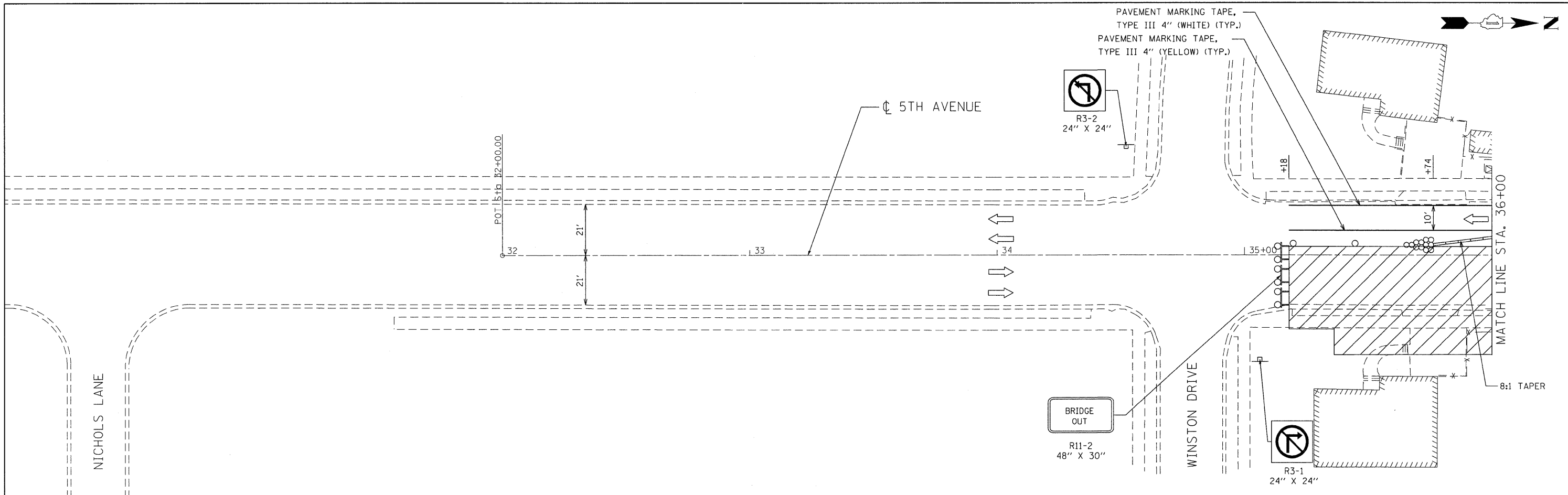
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	13
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL AND PROTECTION GENERAL NOTES

1. TRAFFIC CONTROL SHOULD BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS, THE SUPPLEMENTAL SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITIONS, ANY SPECIAL DETAILS AND HIGHWAY STANDARDS CONTAINED IN THE PLANS, THE TRAFFIC SPECIFICATIONS AND THE SPECIAL PROVISIONS CONTAINED HEREIN.
2. THE STAGING AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE STAGING AND TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. THE ENGINEER AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
4. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT, OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
5. ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL AND PROTECTION, AS DETAILED ON THE PLANS, SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING EXISTING SPEED LIMIT SIGNS, GUIDE SIGNS, OR ANY OTHER CONFLICTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE METHOD IN WHICH THE SIGNS WILL BE COVERED TO THE ENGINEER FOR APPROVAL.
7. IN ADDITION TO THE PROPOSED DRAINAGE STRUCTURES SHOWN ON THE PLANS, SECTIONS OF THE EXISTING DRAINAGE SYSTEM SHALL BE UTILIZED DURING CONSTRUCTION UNTIL THE PROPOSED DRAINAGE SYSTEM IS IN PLACE.
8. PRIOR TO REMOVING TRAFFIC CONTROL AND OPENING CLOSED PAVEMENT AREAS TO TRAFFIC, THE CONTRACTOR SHALL SWEEP THE PAVEMENT SURFACE CLEAN. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."
9. FOR ADVANCED SIGNING SEE STANDARD 701606.
10. WHEN EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS ARE IN CONFLICT WITH THE TRAFFIC CONTROL AND PROTECTION PLAN, EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS SHALL BE REMOVED AND PAID FOR AS PAVEMENT MARKING REMOVAL OR AS RAISED REFLECTIVE PAVEMENT MARKER REMOVAL.
11. THE CONTRACTOR SHALL INSTALL SHORT-TERM PAVEMENT MARKINGS AS DIRECTED BY ENGINEER.
12. DRIVEWAY ACCESS SHALL BE MAINTAINED WHENEVER POSSIBLE USING AGGREGATE FOR TEMPORARY ACCESS.

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	PLOT SCALE = 1:8000 ' / IN.	DRAWN - WBL	REVISED -			2742	3222-W-BR	COOK	51	14
	PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -			CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	
				SCALE: SHEET NO. OF SHEETS STA. TO STA.						



- SYMBOLS**
- ARROW BOARD
 - WORK AREA
 - SIGN
 - DRUM
 - IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2
 - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - TEMPORARY CONCRETE BARRIER WALL
 - TYPE I OR II BARRICADES

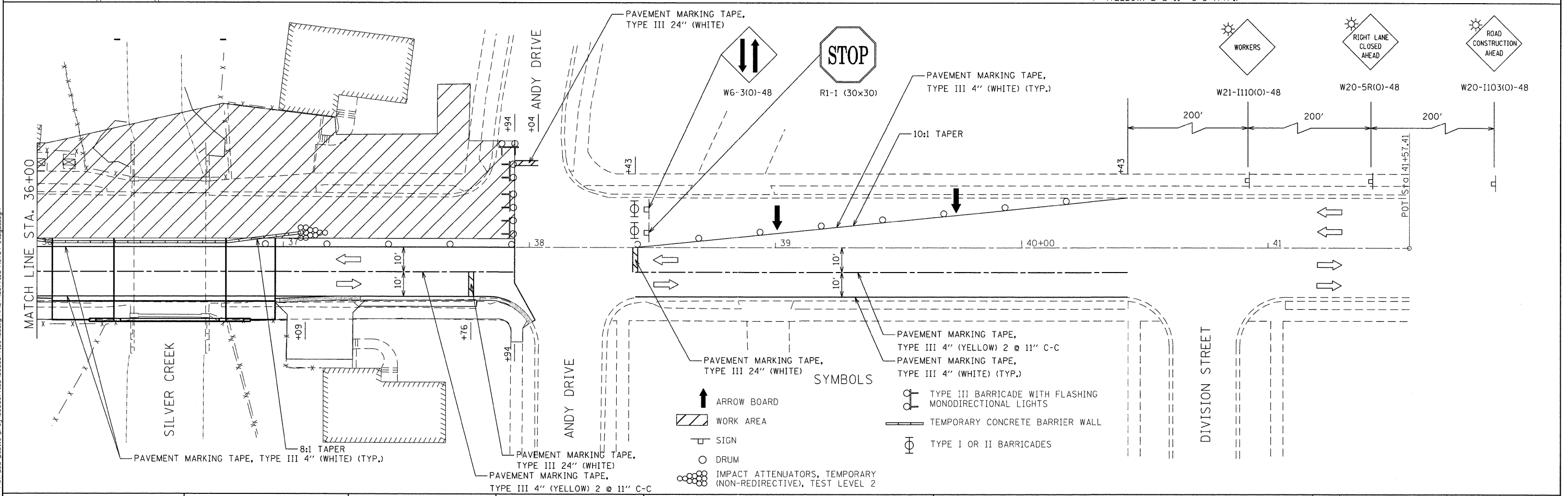
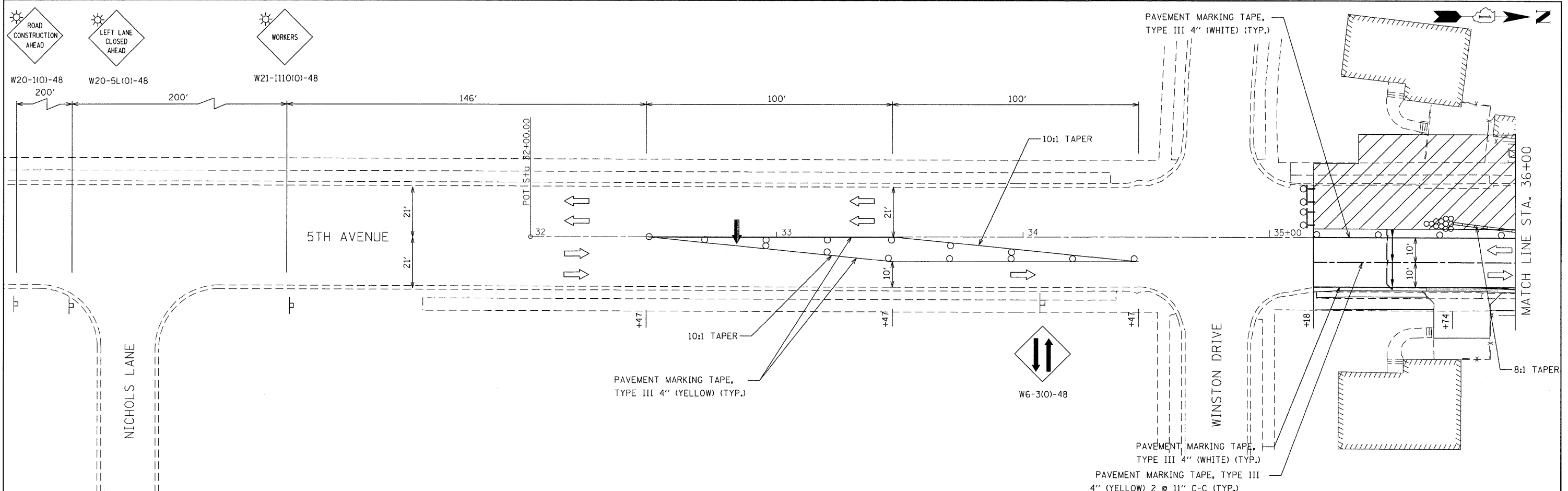
ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel. 773.775.4008 Fax 773.775.4014
 Email: chicago@clorba.com

USER NAME = wjancaster	DESIGNED - WBL	REVISED -
PLLOT SCALE = 28.0006' / IN.	DRAWN - WBL	REVISED -
PLLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 2742 /5TH AVENUE
OVER SILVER CREEK
SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL STAGE I
 SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
2742	3222-W-BR	COOK	51	16
CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	



- SYMBOLS**
- ARROW BOARD
 - WORK AREA
 - SIGN
 - DRUM
 - IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2
 - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - TEMPORARY CONCRETE BARRIER WALL
 - TYPE I OR II BARRICADES

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 4517 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.776.4000 Fax: 773.776.4014
 Email: cgroup@clorba.com

USER NAME = wjancaster
 PLOT SCALE = 20.0006' / IN.
 PLOT DATE = 10/26/2011

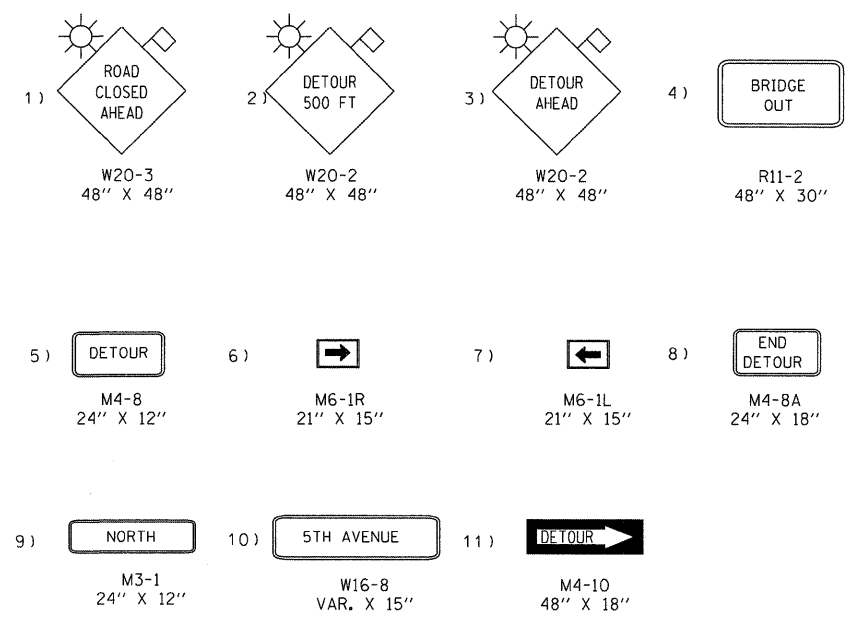
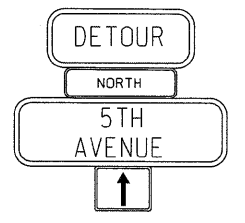
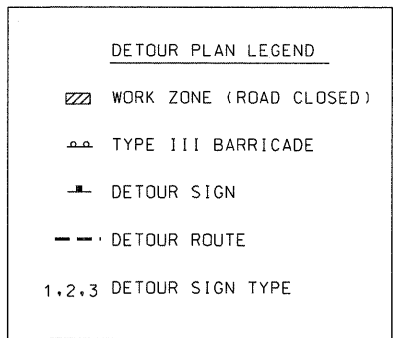
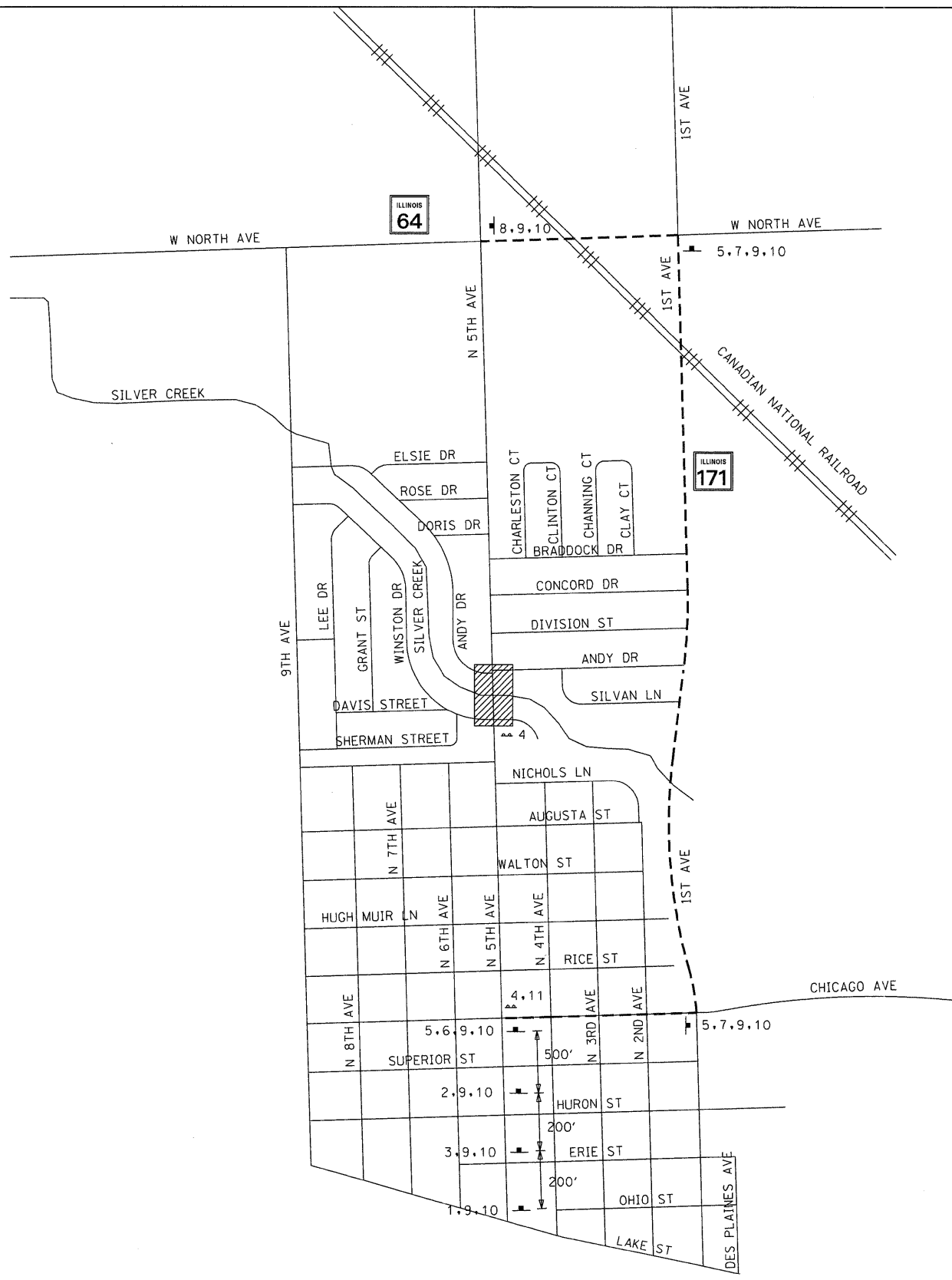
DESIGNED - WBL
 DRAWN - WBL
 CHECKED - MJL
 DATE - 10/17/11

REVISED -
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 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 2742 / 5TH AVENUE
OVER SILVER CREEK
SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL STAGE II
 SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	17
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

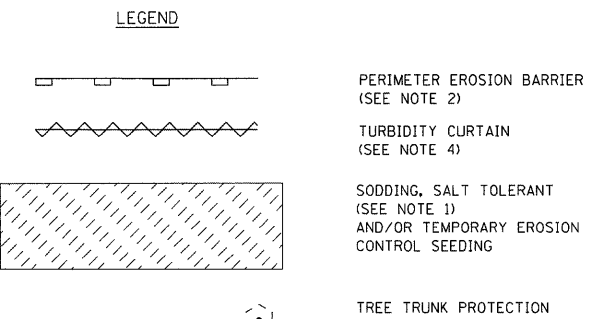
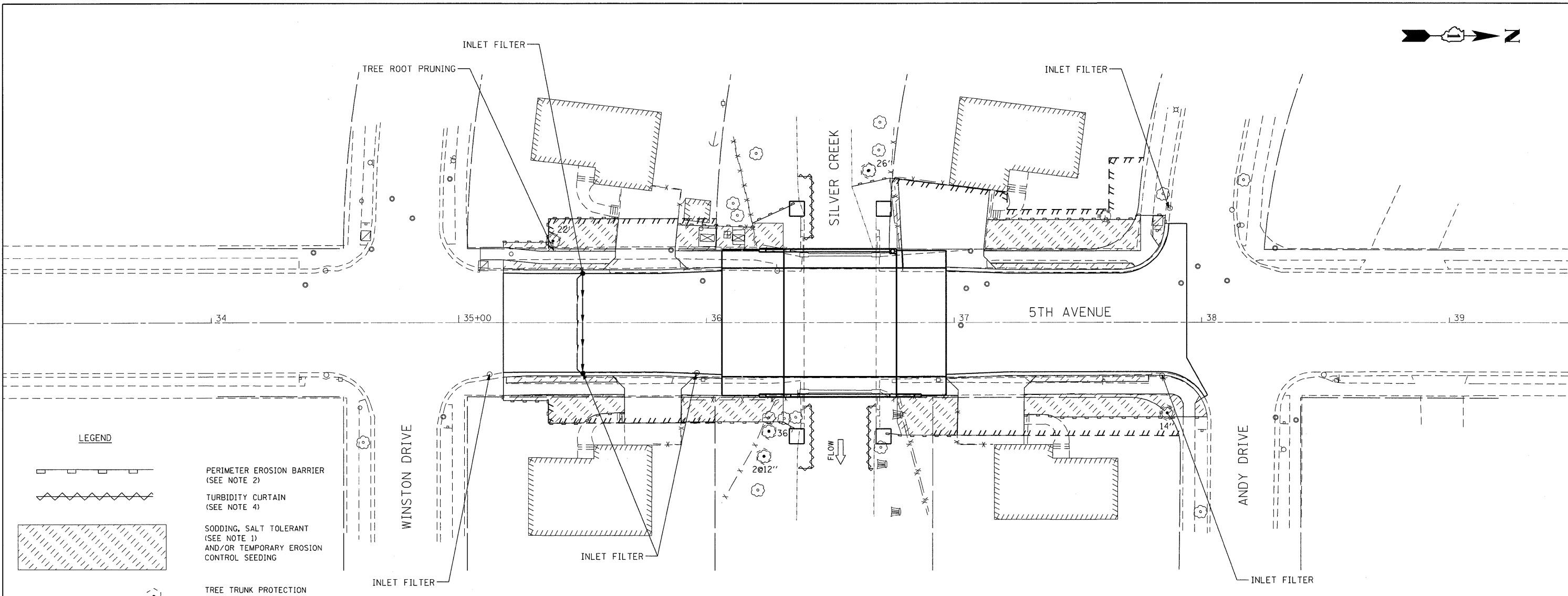


DETOUR PLAN GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL SIGNS MUST BE INSTALLED AT THE DIRECTION AND UNDER THE SUPERVISION OF THE ENGINEER. 48 HOURS NOTICE MUST BE GIVEN TO THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
2. ALL TRAFFIC SIGNS SHALL MEET WITH THE APPROVAL OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER AND DURATION.
3. FOR TYPICAL SIGN INSTALLATIONS, SEE STANDARD #701901
4. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.
5. FLAGS ON "WARNING" SIGNS ARE OPTIONAL.
6. THE COST OF INSTALLING, MAINTAINING AND REMOVING THE DETOUR SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

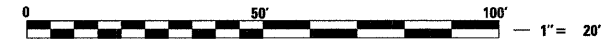
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	ENGINEERING CONSULTANT	USER NAME = wjancoster	DESIGNED - WBL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 2742 /5TH AVENUE OVER SILVER CREEK TEMPORARY DETOUR PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLDT SCALE = 500.0000' / IN.	DRAWN - WBL	REVISED -			2742	3222-W-BR	COOK	51	18
		PLDT DATE = 10/26/2011	CHECKED - MJL	REVISED -			CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	
		DATE - 10/17/11	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.							



NOTES:

1. SODDING, SALT TOLERANT SHALL BE PLACED ONLY IF DEEMED NECESSARY BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN THE PERIMETER EROSION BARRIER AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR "PERIMETER EROSION BARRIER."
3. TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED ONLY IF DEEMED NECESSARY BY THE ENGINEER
4. TURBIDITY CURTAINS SHALL BE USED TO PLACE PROPOSED GABIONS. SEE STRUCTURAL PLANS FOR GABION DETAILS.
5. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHALL BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
7. PROPERTIES AND CHANNELS ADJOINING THE PROJECT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
8. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
9. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
10. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
11. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
12. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA, WETLAND AREAS OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES.
13. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
14. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING, OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL OR WATER OF THE U.S.. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
15. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
16. WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM, INCLUDING BED AND BANKS, SHALL BE RESTABILIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.
17. WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
18. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING TURBIDITY CURTAINS. IF A COFFERDAM IS DEEMED NECESSARY, A NON-ERODIBLE COFFERDAM (STEEL SHEETS, AQUA BARRIERS, ETC.) SHALL BE USED. EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
19. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE TURBIDITY CURTAIN.
20. IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS OTHERWISE REQUIRED.
21. THIS PROJECT REQUIRES AN US ARMY CORPS OF ENGINEERS 404 PERMIT. THE PERMIT ISSUED TO THE DEPARTMENT DOES NOT COVER THE IN STREAM WORK BY THE CONTRACTOR. THEREFORE AFTER AWARD, THE CONTRACTOR WILL NEED TO SUBMIT THE WORK PLAN TO THE CORPS. THE CORPS WILL NOT BE PROVIDING AN APPROVAL UNLESS STATED OTHERWISE IN THE PERMIT AND IN STREAM WORK CAN COMMENCE AT THE CONTRACTOR'S DISCRETION. GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE CORPS WEBSITE: [HTTP://WWW.LRC.USACE.ARMY.MIL/](http://www.lrc.usace.army.mil/)



ENGINEERING CONSULTANT

Clorba Group, Inc.
CONSULTING ENGINEERS
5537 North Cumberland Avenue, Suite 402
Chicago, Illinois 60630
Tel. 773.775.4209 Fax 773.775.4614
Email: clorba@clorba.com

USER NAME = w Lancaster	DESIGNED - WBL	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

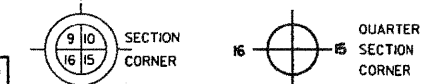
**FAU 2742 /5TH AVENUE
OVER SILVER CREEK
EROSION AND SEDIMENT CONTROL & LANDSCAPING PLAN**

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 19
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

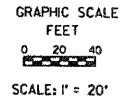
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PART OF THE SW 1/4 OF SECTION 2, TWP. 39 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

LEGEND



- SECTION LINE
- - - QUARTER SECTION LINE
- - - QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (OOEO) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION (129.32')
- EXISTING BUILDING



Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

COORDINATE VALUES

PROJECT COORDINATES ARE IN U.S. SURVEY FEET, SURFACE GROUND COORDINATES, AND CAN BE CONVERTED TO ILLINOIS STATE PLANE NAD 83, EAST ZONE (1201), COORDINATES BY MULTIPLYING THE PROJECT GROUND COORDINATES BY 0.99994281297-COMBINED FACTOR.

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

- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION SET 5/8 INCH IRON ROO FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION BURIED 5/8 INCH IRON ROO 20 INCHES BELOW GROUND TO THE 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 METAL ROO 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.O.O.T. STANDARD 2135 1TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

THIS IS TO CERTIFY THAT I, DOUGLAS R. MCCLINTIC, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 2, 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 THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT OAKBROOK TERRACE, ILLINOIS THIS DAY OF 2000 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2992
LICENSE EXPIRATION DATE: NOVEMBER 30, 2000.

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

JACOB & HEPNER ASSOCIATES, INC.
ENGINEERS - SURVEYORS
1801 S. Meyers Road, Suite 180
Oakbrook Terrace, IL 60181
(630) 652-4800

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 2742 / 5TH AVENUE

LIMITS: OVER SILVER CREEK COUNTY: COOK
PROJECT JOB NO.: R-90-005-02
STATION: 35+35.670 TO STATION: 37+93.247
SCALE: 1"=20' SHEET 2 OF 2

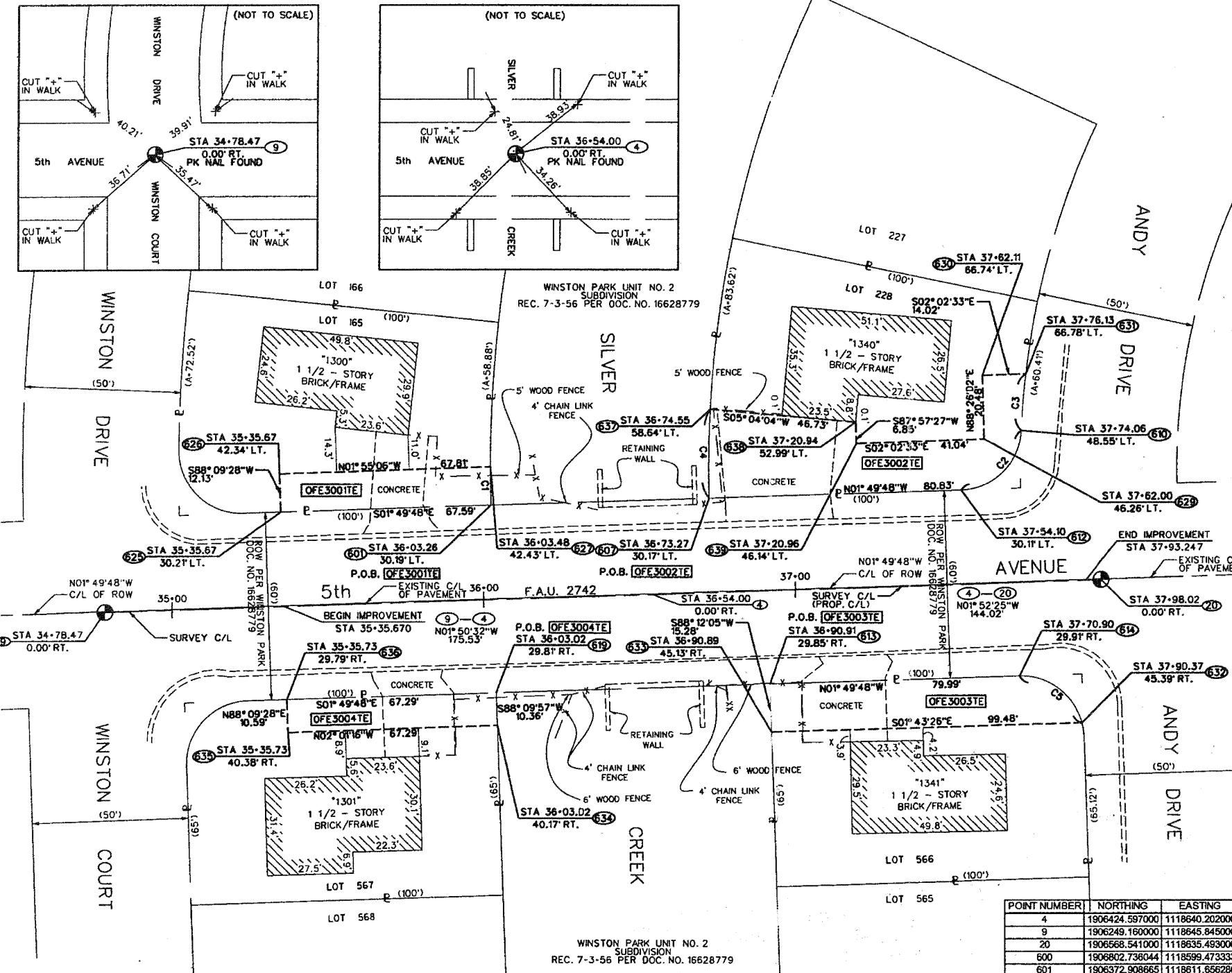
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

RECEIVED
OCT 8 2010
PLAYS & LEGALS

MADE BY

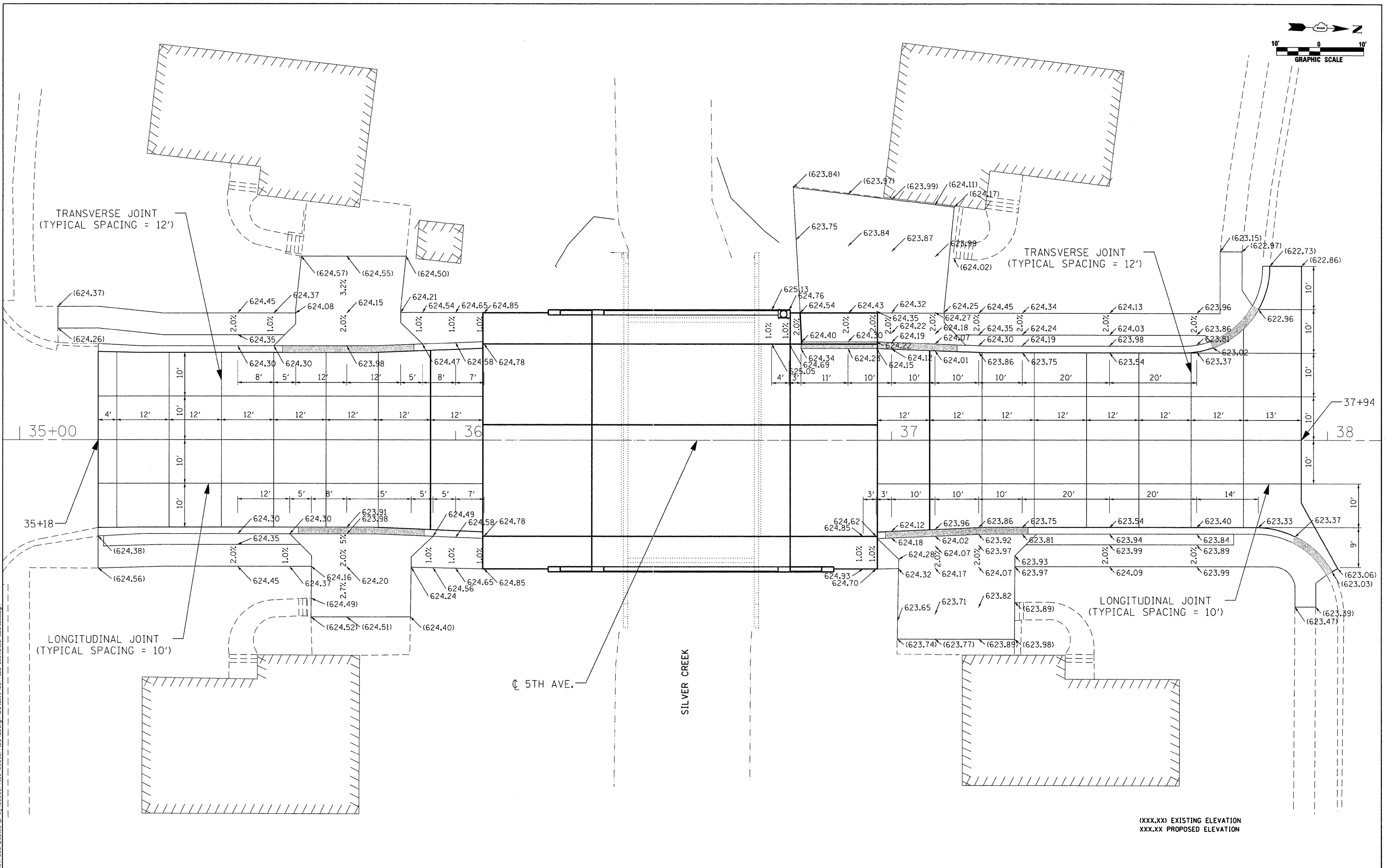
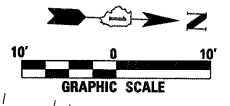
POINT NUMBER	NORTHING	EASTING	STATION	OFFSET
4	1906424.597000	1118640.202000	36+54.00	0.00' RT.
9	1906249.160000	1118645.845000	34+78.47	0.00' RT.
20	1906568.541000	1118635.493000	37+98.02	0.00' RT.
600	1906802.736044	1118599.473333	RADIUS POINT	
601	1906372.908665	1118611.656286	36+03.26	30.19' LT.
607	1906442.873511	1118609.421050	36+73.27	30.17' LT.
610	1906543.000391	1118587.751950	37+74.06	48.55' LT.
611	1906523.020726	1118586.850305	RADIUS POINT	
612	1906523.659462	1118606.840103	37+54.10	30.11' LT.
613	1906462.461464	1118668.825867	36+90.91	29.85' RT.
614	1906542.409797	1118666.271680	37+70.90	29.91' RT.
615	1906543.048351	1118666.261483	RADIUS POINT	
619	1906374.605033	1118671.632703	36+03.02	29.81' RT.
625	1906305.357036	1118613.814424	35+35.67	30.21' LT.
626	1906304.966987	1118601.688049	35+35.67	42.34' LT.
627	1906372.738047	1118599.418184	36+03.48	42.43' LT.
629	1906531.026709	1118590.435499	37+62.00	46.26' LT.
630	1906530.467024	1118589.962853	37+62.11	66.74' LT.
631	1906544.473773	1118569.463343	37+76.13	66.78' LT.
632	1906562.373270	1118681.108054	37+90.37	45.39' RT.
633	1906462.941125	1118684.101749	36+90.89	45.13' RT.
634	1906374.936708	1118681.990118	36+03.02	40.17' RT.
635	1906307.686302	1118684.363362	35+35.73	40.38' RT.
636	1906307.345932	1118673.781495	35+35.73	29.79' RT.
637	1906443.214322	1118580.922548	36+74.55	58.64' LT.
638	1906489.764167	1118585.050609	37+20.94	52.99' LT.
639	1906490.008370	1118591.898300	37+20.96	46.14' LT.

REVISION DATE: REVISION



RADIUS	ARC	CHORD BEARING	CHORD
C1	430.00'	12.24' N89° 11' 31" E	12.24'
C2	20.00'	29.88' N44° 37' 23" W	27.17'
C3	260.00'	18.35' N85° 23' 39" W	18.35'
C4	360.00'	28.51' S89° 18' 53" E	28.50'
C5	20.00'	26.84' N36° 37' 15" E	24.87'

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
						ACRES	SQUARE FEET			
OFE300ITE	FRANCISCO J. GONZALEZ & ARACELI GONZALEZ	0.149	N/A	N/A	0.149	0.019	825	TEMPORARY CONSTRUCTION	15-02-107-037	
OFE3002TE	ENRIQUE ROORIGUEZ	0.164	N/A	N/A	0.164	0.052	2248	TEMPORARY CONSTRUCTION	15-02-107-064	
OFE3003TE	STEVEN R. KALNICKY & VENITA M. KALNICKY	0.147	N/A	N/A	0.147	0.033	1452	TEMPORARY CONSTRUCTION	15-02-338-025	
OFE3004TE	JAVIER ARIZMENDI & VERONICA ARIZMENDI	0.147	N/A	N/A	0.147	0.016	705	TEMPORARY CONSTRUCTION	15-02-338-046	



(XXX.XX) EXISTING ELEVATION
 XXX.XX PROPOSED ELEVATION

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6037 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60655
 Tel: 773.775.4000 Fax: 773.775.4014
 Email: chris@clorba.com

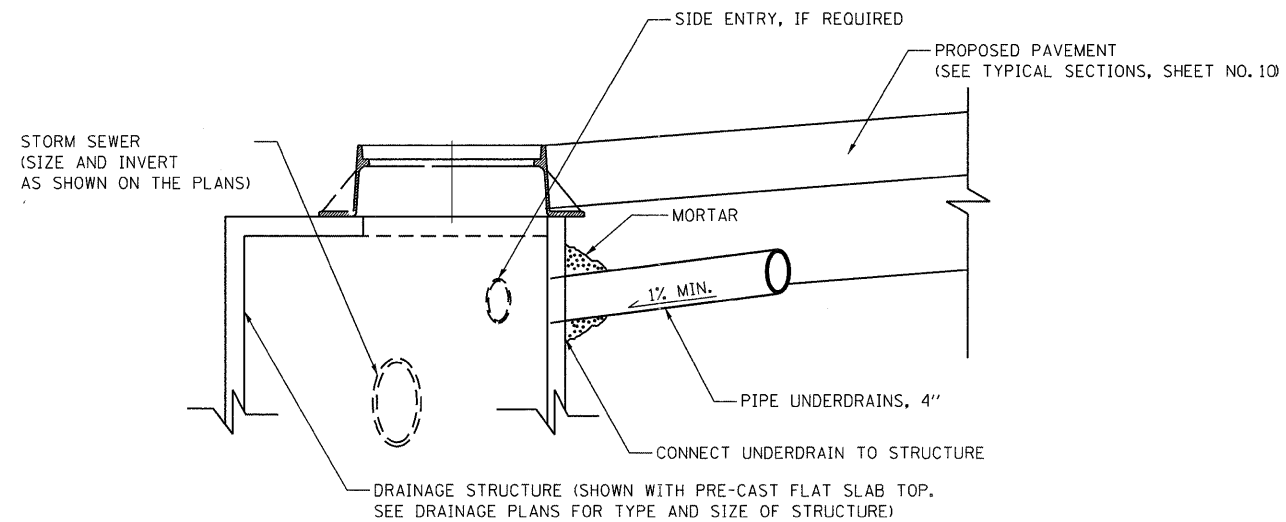
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PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 2742 / 5TH AVENUE
OVER SILVER CREEK
JOINTING AND ELEVATION DETAIL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 21
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				



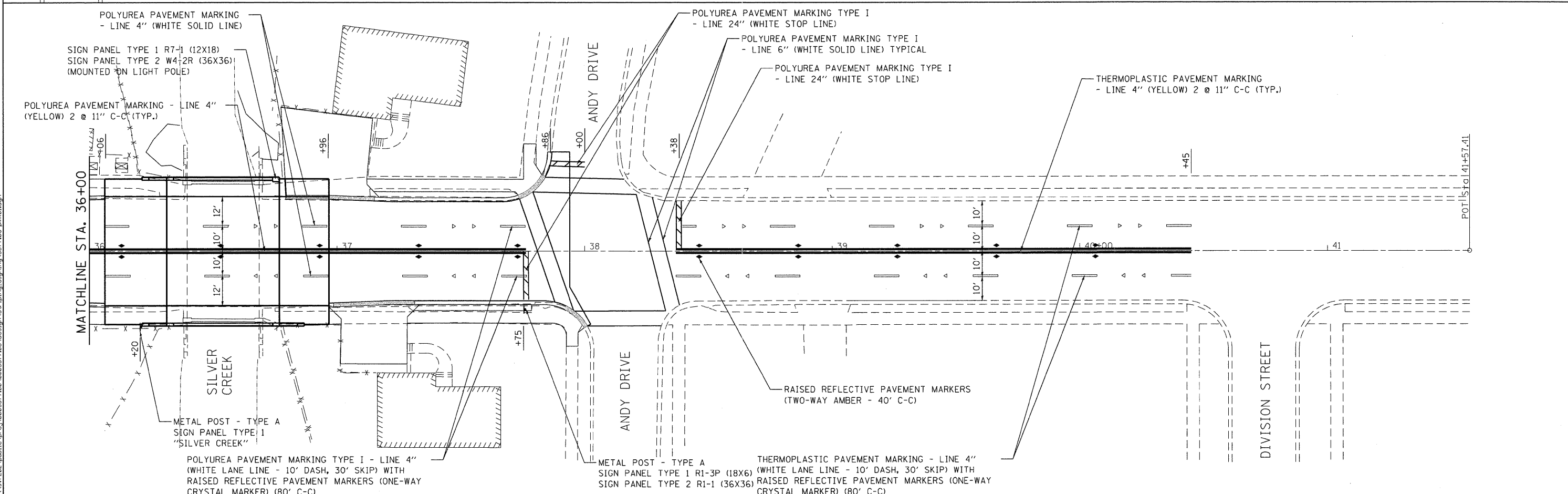
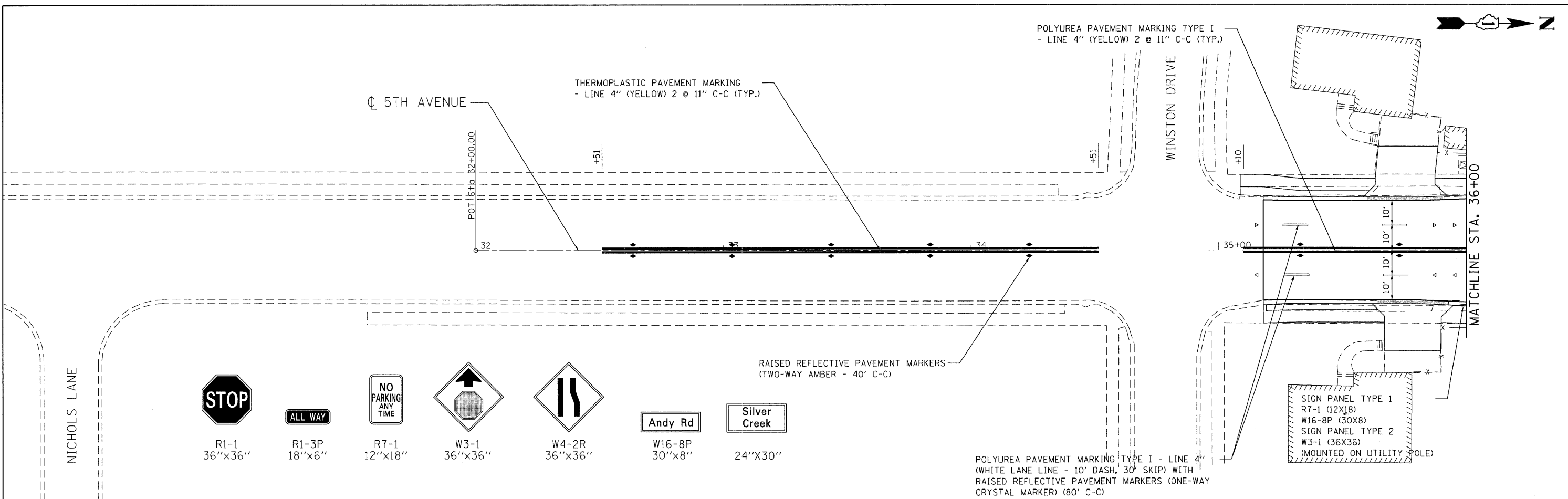
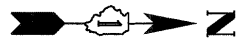
NOTE:

THE CONTRACTOR SHALL CAREFULLY CORE INTO THE DRAINAGE STRUCTURE THE SAME SIZE AS THE EXTERNAL DIAMETER OF THE PROPOSED PIPE UNDERDRAIN. THE PROTRUSION OF THE PROPOSED PIPE UNDERDRAIN INTO THE DRAINAGE STRUCTURE MUST NOT EXCEED A MAXIMUM OF ONE INCH. AFTER THE PIPE UNDERDRAIN IS INSTALLED, THE DRAINAGE STRUCTURE SHALL BE MORTARED WITH A NON-SHRINK CONCRETE GROUT.

UNDERDRAIN CONNECTION TO STRUCTURE

\\svr202\public\proj\08-08083377-06\design\Details\3377-06-DrainageDetail.dgn

Ciorba Group, Inc. CONSULTING ENGINEERS <small>5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773-420-8000 Fax: 773-778-4014 Email: ciorba@cg-engineers.com</small>	USER NAME = wjencaster	DESIGNED - WBL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 2742 /5TH AVENUE OVER SILVER CREEK DRAINAGE DETAIL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8" = 1'-0"	DRAWN - WBL	REVISED -			2742	3222-W-BR	COOK	51	22
PLOT DATE = 10/26/2011	CHECKED - MJL	DATE - 10/17/11	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				
						CONTRACT NO. 62116				



ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6337 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.774.4000 Fax: 773.779.4014
 Email: clorba@clorba.com

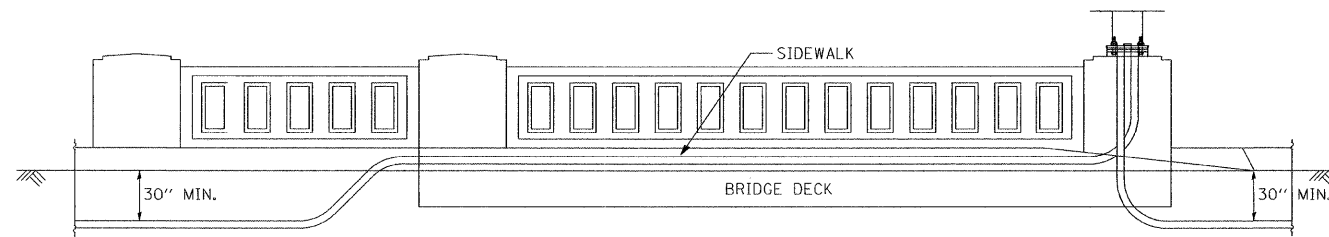
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PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE = 10/17/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 2742 / 5TH AVENUE
OVER SILVER CREEK
PAVEMENT MARKING AND SIGNING PLAN

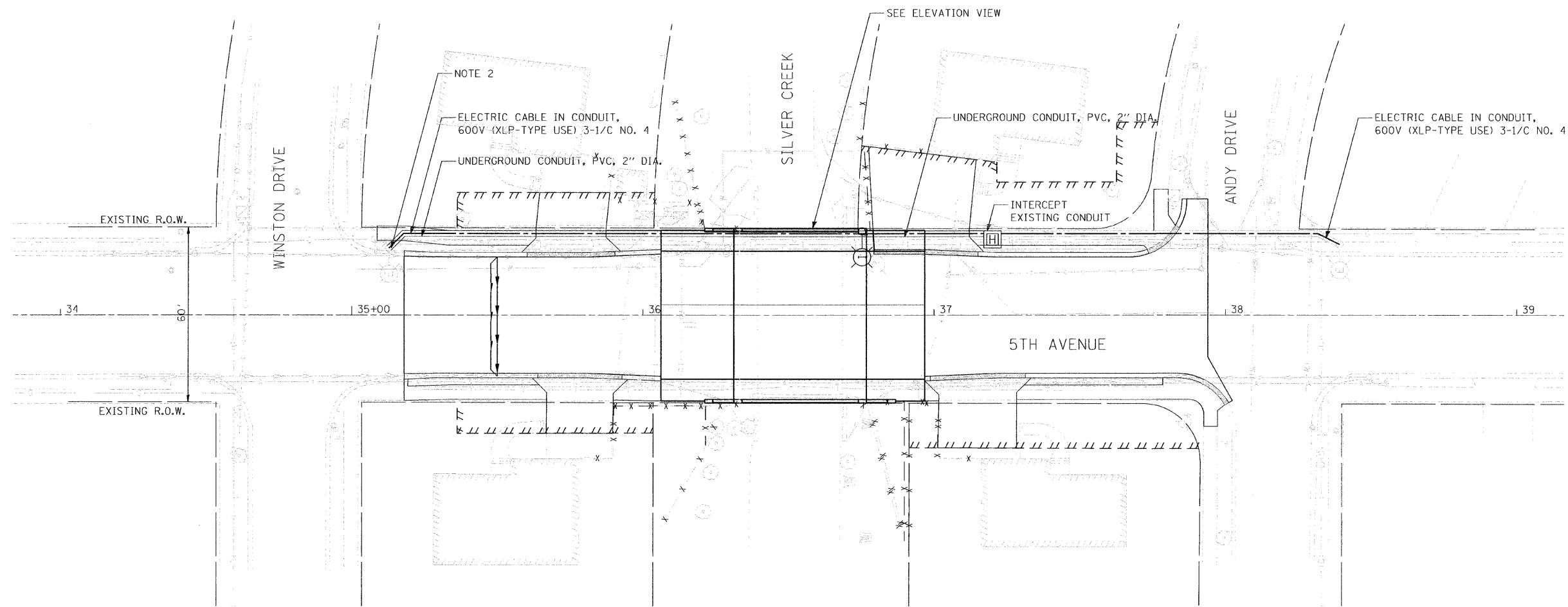
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	23
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				



CONDUIT ROUTING THROUGH BRIDGE STRUCTURE

SEE BRIDGE PLANS FOR MORE



LEGEND:

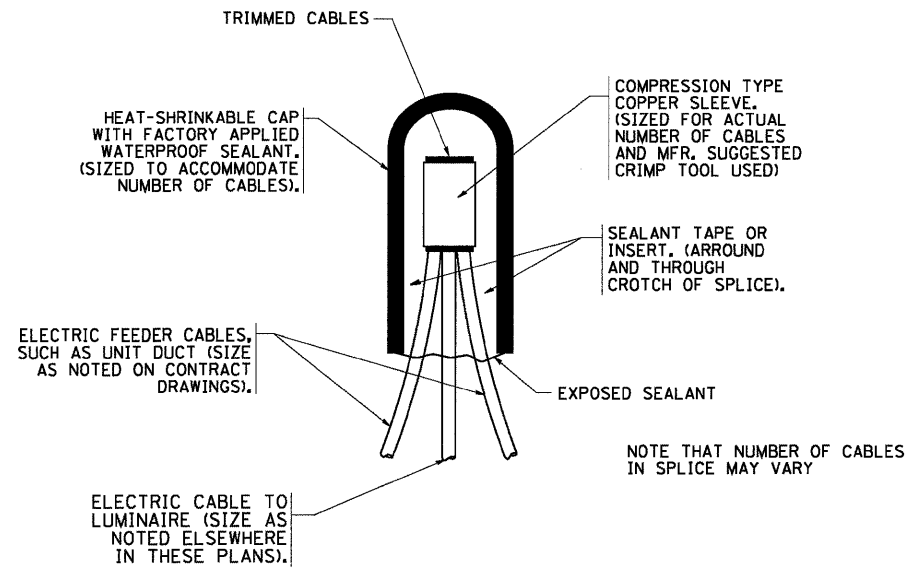
- EXISTING LIGHTING UNIT
- REMOVE AND REINSTALL EXISTING LIGHTING UNIT
- HEAVY-DUTY HANDHOLE
- ELECTRIC CABLE IN CONDUIT, NUMBER AND SIZE AS NOTED

NOTES:

1. UNDERGROUND SPLICES ARE NOT ALLOWED.
2. EXCAVATE EXISTING RACEWAY/CONDUIT AND INSTALL A PVC CONDUIT COUPLER.
3. CONDUIT WITHIN BRIDGE STRUCTURE INCLUDED IN THE COST OF CONCRETE SUPERSTRUCTURE.

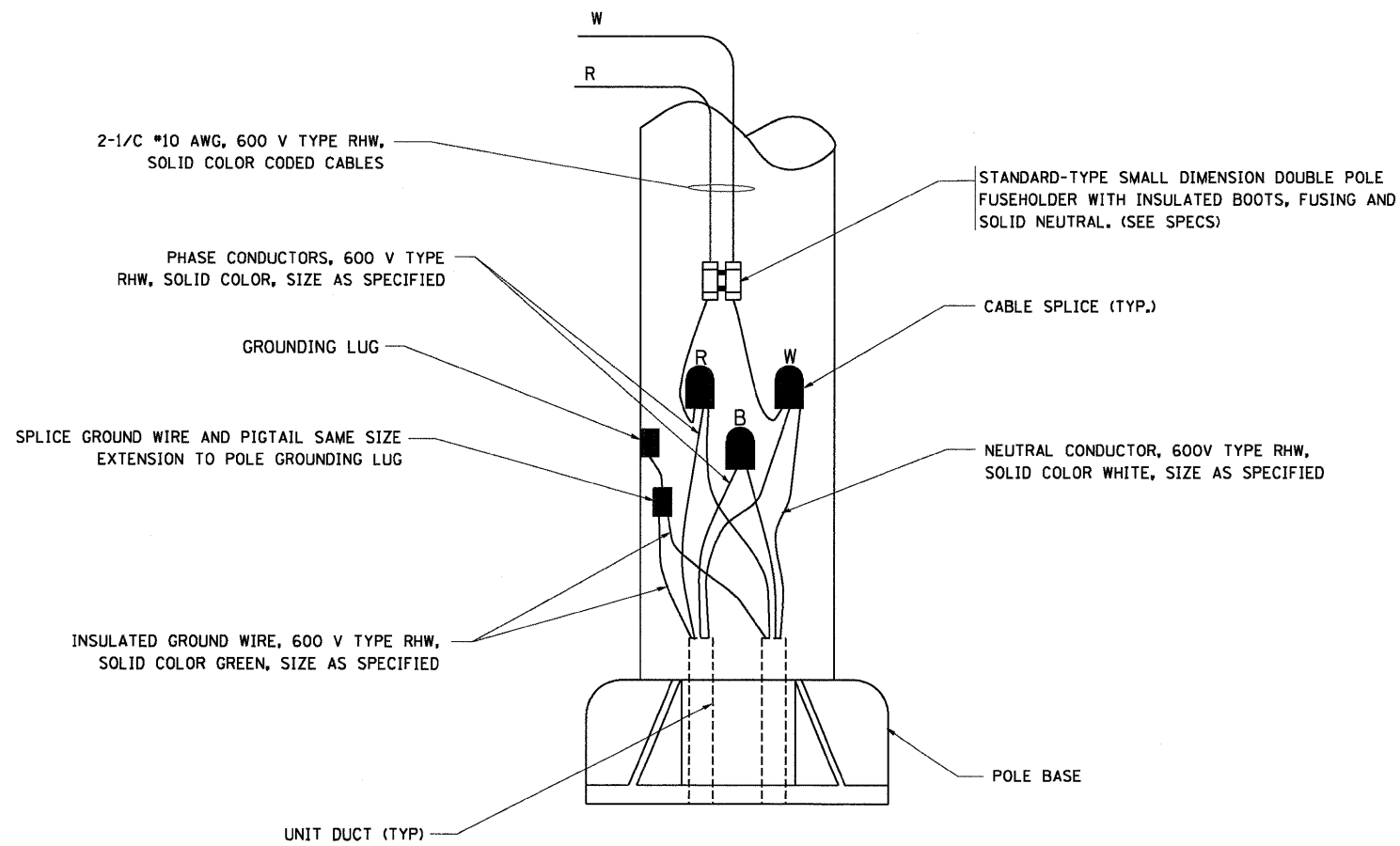
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Clorba Group, Inc. CONSULTING ENGINEERS <small>2517 North Cumberland Avenue, Suite 402 Chicago, IL 60640 Tel: 773-775-4200 Fax: 773-778-4614 Email: chris@clorba.com</small>	ENGINEERING CONSULTANT	DESIGNED - WBL	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 2742 /5TH AVENUE OVER SILVER CREEK LIGHTING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = jvondra	DRAWN - WBL	REVISIONS			2742	3222-W-BR	COOK	51	24
	PLOT SCALE = 20.0000' / IN.	CHECKED - MJL	REVISIONS			CONTRACT NO. 62116				
	PLOT DATE = 12/5/2011	DATE - 10/17/11	REVISIONS			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.				



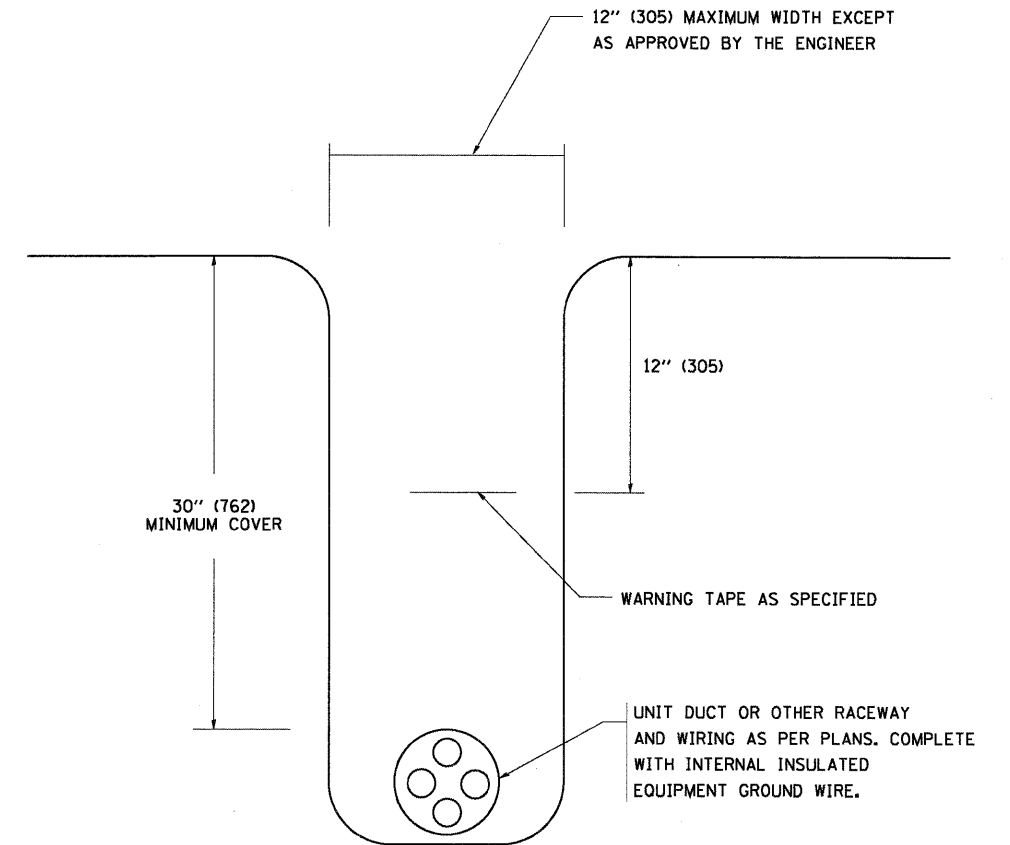
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME = W:\dist\td\22x34\be792.dgn	USER NAME = gegl.enabt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A			F.A. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 25
	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-702		CONTRACT NO.	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

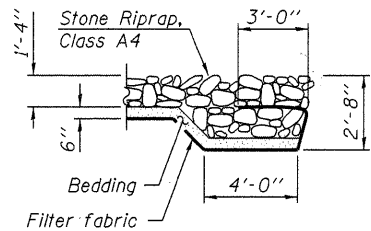
Benchmark: S.E. B-Bolt of fire hyd. at S.W. corner of 5th Ave. and Winston Dr.
Sta. 34+64.25, Offset 64.75', Elev. 625.561

Existing Structure: S.N. 016-0691 built in 1929 as FAU 2742, Section F. Overlay was placed in 1999 and in 2010. A single span reinforced concrete bridge. Superstructure on closed abutments, 32' long and 56' out to out. Existing superstructure & portions of substructure to be removed and replaced using stage construction, keeping one lane open in the southbound direction during stage I and one lane in each direction during stage II. Northbound traffic will be detoured during stage I.

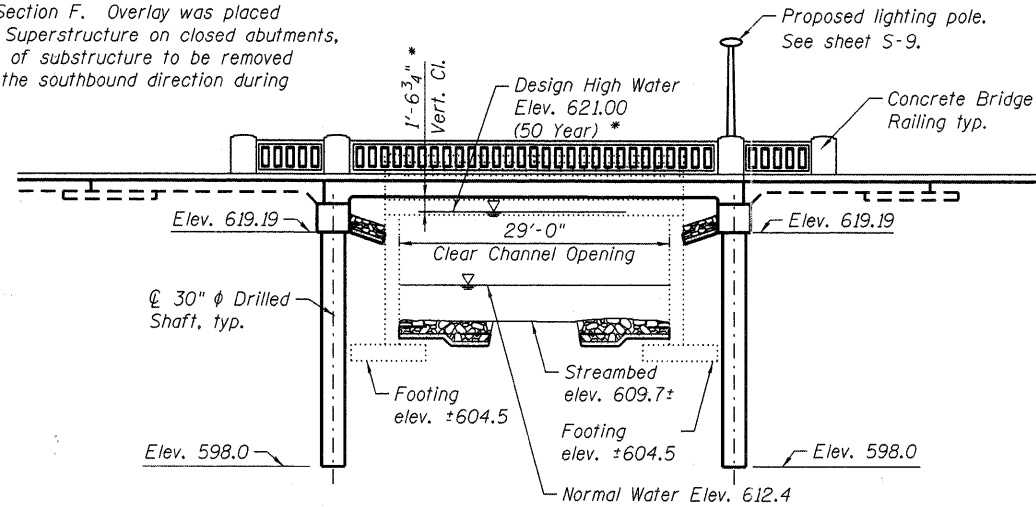
No Salvage.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	South Abut.	North Abut.
	604.5	604.5



SECTION B-B



ELEVATION

NOTES:

1. Appr. Railing will be omitted on the NW corner of the bridge
2. For Section A-A see sheet S-2.
3. Existing Watermain and gas main in conflict with proposed drilled shaft to be relocated by others prior to drilling operations.

WATERWAY INFORMATION

Drainage Area = 9.0 Sq. Mi. Proposed Low Grade Elev. 624.43 @ Sta. 37+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	425	326	327	621.0	0.0	0.0	621.0	621.0
Base	50	645	326	327	621.0*	0.0	0.0	621.0	621.0
Overtopping	100	770	326	330	621.1	0.0	0.0	621.1	621.1
Max. Calc.	500	1010	326	333	621.2	0.0	0.0	621.2	621.2

All Elevations are based on FIS Datum -0.281' = Highway Datum

* The vertical clearance was determined using the 50 year HWE (622.9) of the Des Plaines River.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

DESIGN STRESSES

FIELD UNITS

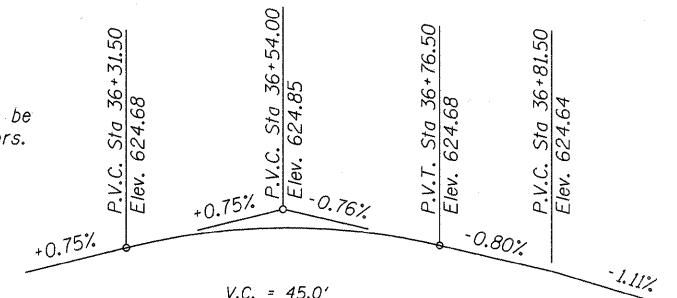
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HS 20-44

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

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

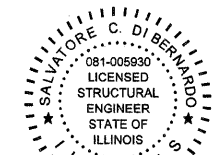


PROFILE

along 5th Avenue

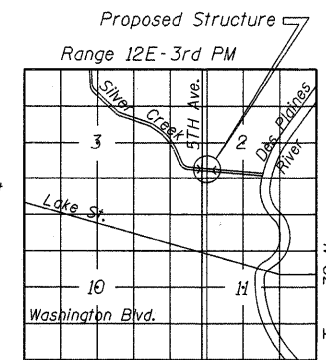
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Carl Perry
ENGINEER OF BRIDGES AND STRUCTURES

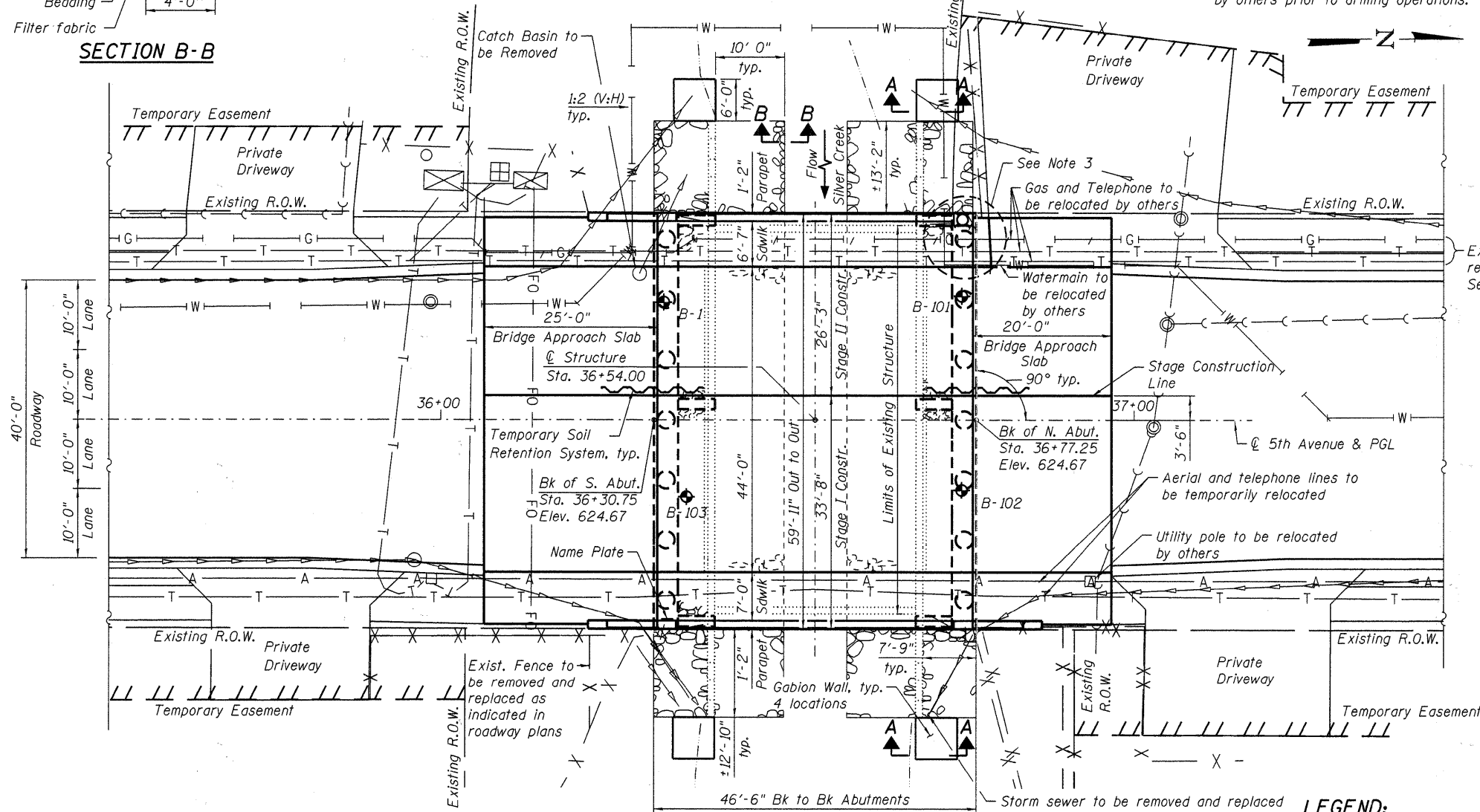


Salvatore C. DiBenedetto
DATE: 10/25/2011
SEAL EXPIRES: 11/30/2012

GENERAL PLAN
FIFTH AVENUE OVER SILVER CREEK
F.A.U. RTE. 2742 SEC. 3222-W-BR
COOK COUNTY
STATION 36+54.00
STRUCTURE NO. 016-2818



LOCATION SKETCH



PLAN

LEGEND:

- ◆ Soil Boring Location
- W— Existing 12" Water Main
- G— Existing 4" Gas Main

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S-1 OF S-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	26
CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	

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Clorba Group, Inc.
CONSULTING ENGINEERS
5601 North Cicero Avenue
Chicago, Illinois 60630
Tel: 773-775-4014
Fax: 773-775-4014
Email: clorba@clorba.com

USER NAME	DESIGNED	CHECKED	DRAWN	CHECKED
rdenley	BWS	DL	RD	SCD

REVISIONS	DATE	BY	REASON
1			

GENEAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
6. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
7. Work in the waterway shall be timed to take place during low flow conditions.
8. Work may not be performed in the water except for the placement of the materials necessary for de-watering.

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Install Temporary Soil Retention System at both abutments.
2. Excavate behind existing abutment to elevation for Stage I proposed abutment placement.
3. Install Stage I drilled shafts at both abutments.
4. Stage I partial removal of abutments. (See Sheet S-14)
5. Form and pour abutments and tie walls between existing and proposed abutments.
6. Stage I Removal of deck.
7. Place riprap between existing and proposed abutments and proposed drainage.
8. Form and pour deck and approach slab.
9. Repeat, steps 2 - 8 for stage II.

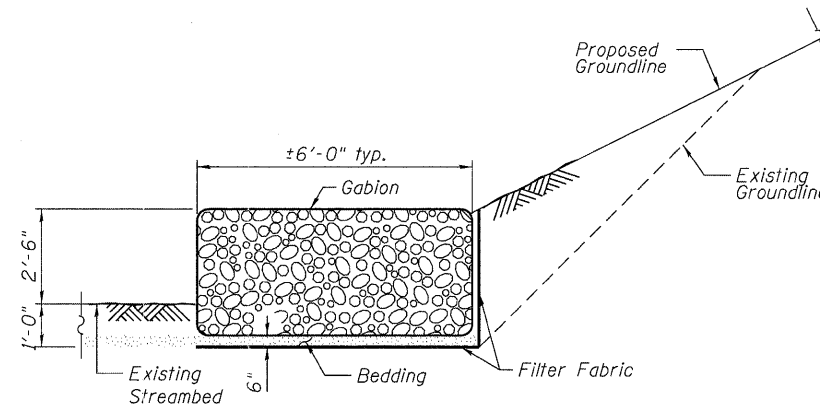
INDEX OF SHEETS

- S-1 General Plan
- S-2 General Notes, Bill of Materials and Index of Sheets
- S-3 Stage Construction
- S-4 Temporary Concrete Barrier for Stage Construction
- S-5 Top of Slab Elevations
- S-6 Top of South Approach Slab Elevations
- S-7 Top of North Approach Slab Elevations
- S-8 Superstructure Plan and Cross Section
- S-9 Concrete Bridge Railing Sidewalk Mounted
- S-10 Superstructure Details
- S-11 Bridge Approach Slab Details 1
- S-12 Bridge Approach Slab Details 2
- S-13 Abutment Details
- S-14 Abutment Removal
- S-15 Bar Splicer Assembly and Mechanical Splicer Details
- S-16 Soil Boring Log I
- S-17 Soil Boring Log II

STATION 36+54
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.U. RT. 2742 SEC. 3222-W-BR
 LOADING HS20-44
 STR. NO. 016-2818

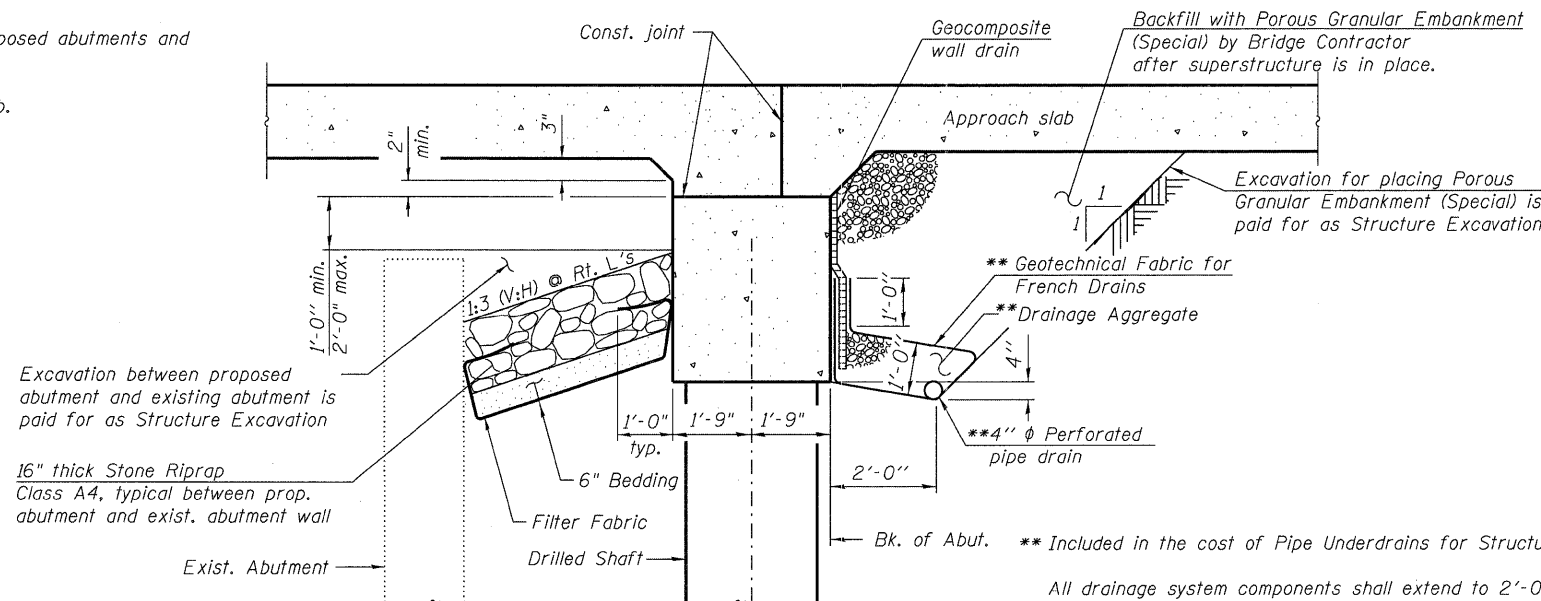
NAME PLATE

See Std. 515001



SECTION A-A

See sheet S-1 for section location
 Bedding and Filter Fabric included with cost of Gabions



SECTION THRU ABUTMENT

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

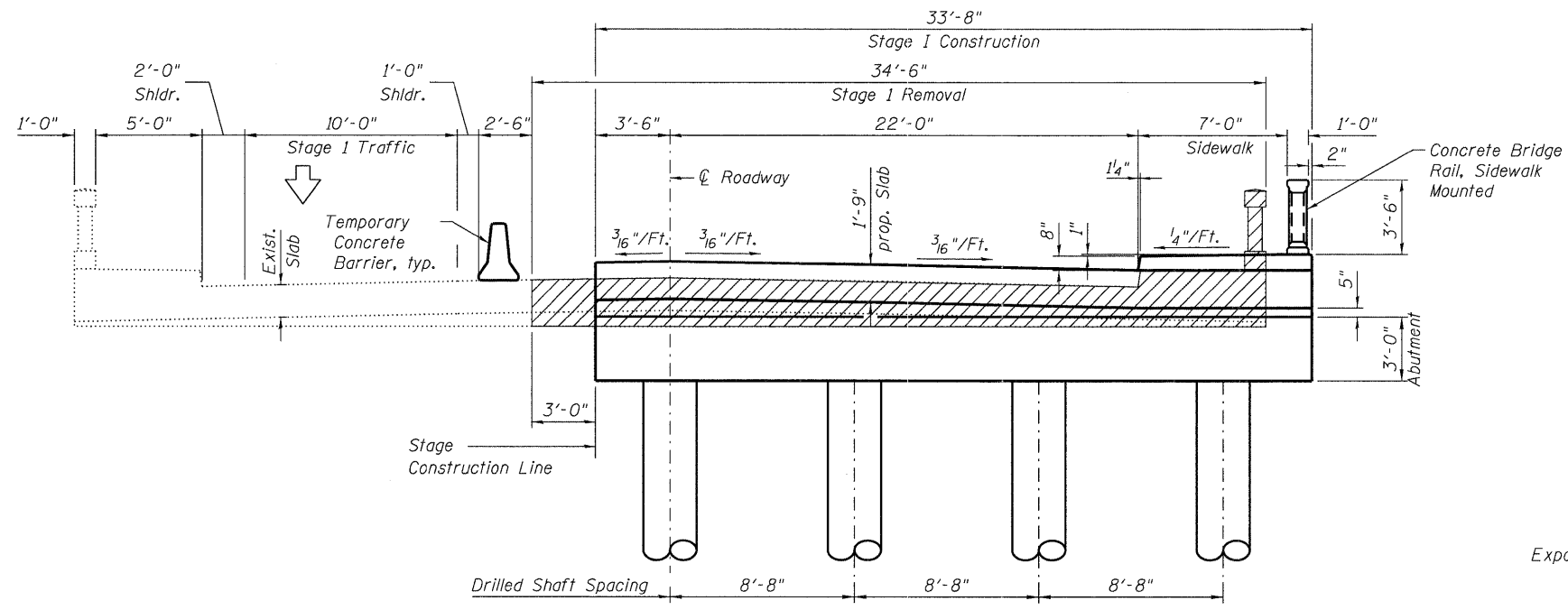
All drainage system components shall extend to 2'-0" from the end of each abutment. The pipes shall be sloped toward the center of the bridge and be outletted thru the existing abutment into the creek. Cost for coring through abutment included in the Cost of Pipe Underdrains for Structures.

TOTAL BILL OF MATERIAL

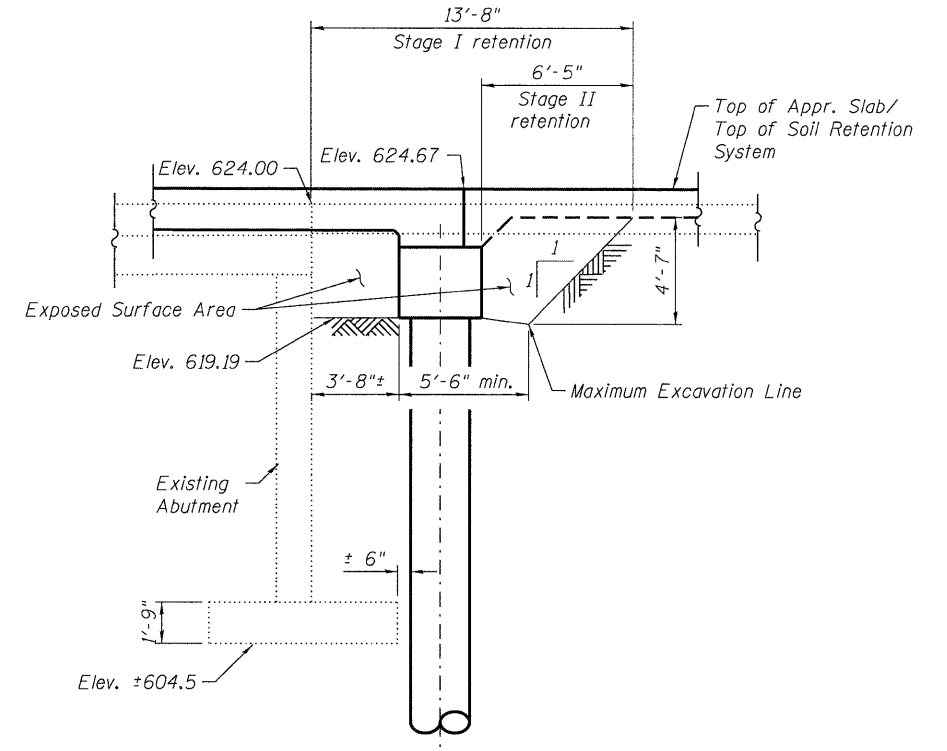
ITEM	UNIT	SUB	SUPER	TOTAL
Stone Riprap, Class A4	Sq Yd	289		289
Filter Fabric	Sq Yd	289		289
Gabions	Cu Yd	16		16
Removal Of Existing Superstructures	Each		1	1
Concrete Removal	Cu Yd	3.0		3.0
Structure Excavation	Cu Yd	246		246
Concrete Structures	Cu Yd	87.0		87.0
Rubbed Finish	Sq Ft		917	917
Concrete Superstructure	Cu Yd		347.5	347.5
Bridge Deck Grooving	Sq Yd		423	423
Protective Coat	Sq Yd		695	695
Reinforcement Bars	Pound	10,040		10,040
Reinforcement Bars, Epoxy Coated	Pound	13,830	83,950	97,780
Bar Splicers	Each	102	192	294
Name Plates	Each		1	1
Drilled Shaft In Soil	Cu Yd	56.6		56.6
Geocomposite Wall Drain	Sq Yd	44		44
* Concrete Bridge Rail, Sidewalk Mounted	Foot		121	121
* Porous Granular Embankment, Special	Cu Yd	86		86
* Pipe Underdrains For Structures 4"	Foot	136		136
* Temporary Soil Retention System	Sq Ft	152		152

* Special Provision

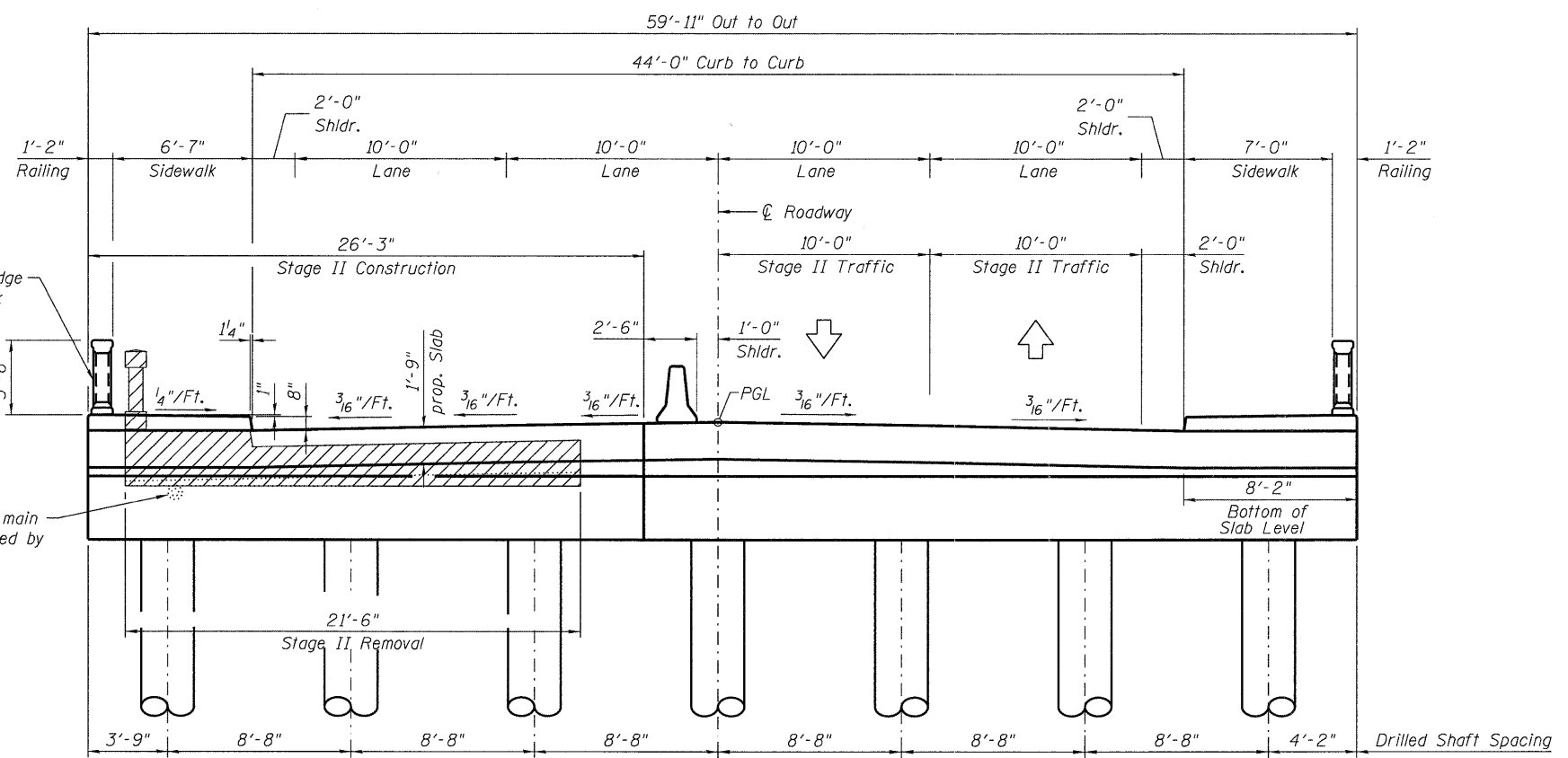
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STAGE I CONSTRUCTION
(Looking North)



TEMPORARY SOIL RETENTION SYSTEM



STAGE II CONSTRUCTION
(Looking North)

NOTES

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. The existing bridge sidewalk and rail removal is included with the cost of the Removal of Existing Concrete Deck.
3. Per the existing plans, the sidewalk has voids in place for telephone to cross the bridge. Care should be taken when removing the structure not to damage the utilities.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	152

LEGEND

Concrete Deck Removal

N:\PROJECTS\0003377_00\0003377_06\Design\Structure\CAD\016-281B_03_Stage_Constr.dgn

Clorba Group, Inc.
CONSULTING ENGINEERS
5001 North Cicero Avenue
Suite 200, Chicago, Illinois 60630
Tel: 773.741.4014
Email: clorba@clorba.com

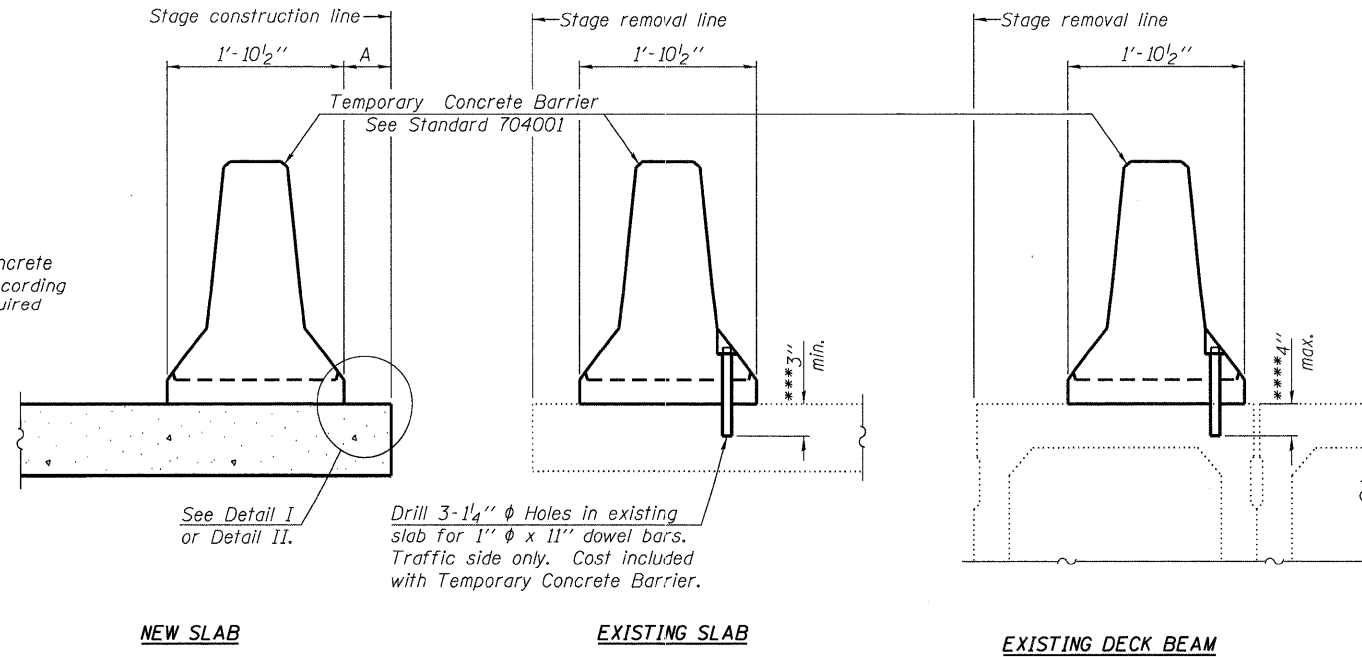
USER NAME = rdonley	DESIGNED BWS	REVISIONS
PLOT SCALE = 4/0" = 1" = 1/4"	CHECKED SCD	REVISIONS
PLOT DATE = 10/25/2011	DRAWN RD	REVISIONS
	CHECKED DL	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
STRUCTURE NO. 016-281B
SHEET NO. S-3 OF S-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	28
				CONTRACT NO. 62116
[ILLINOIS] FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

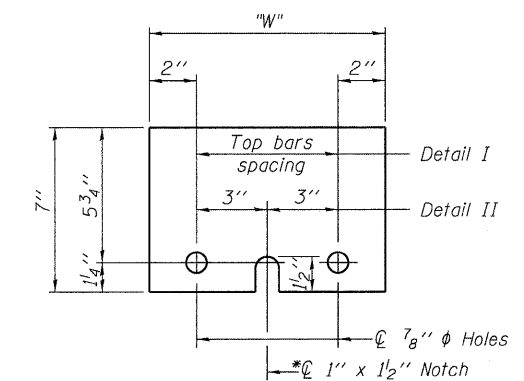
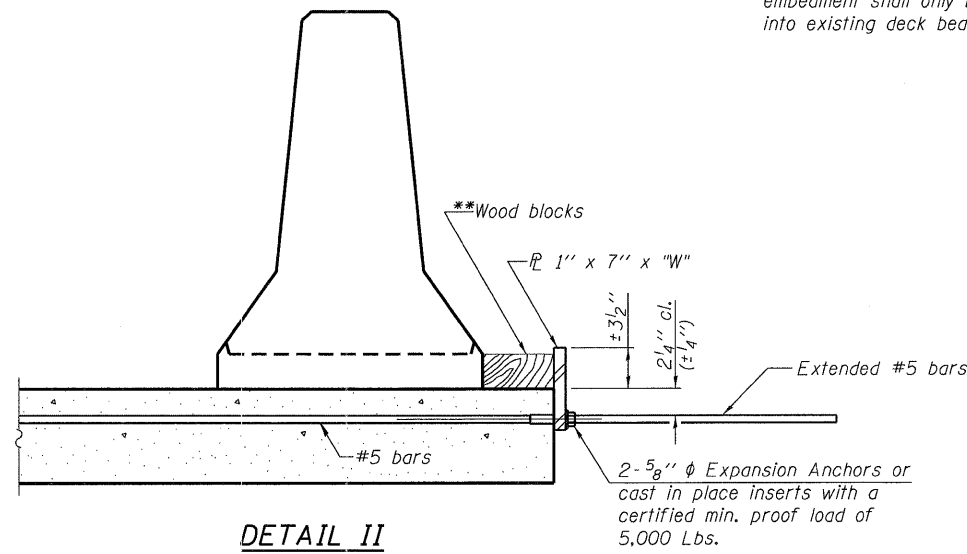
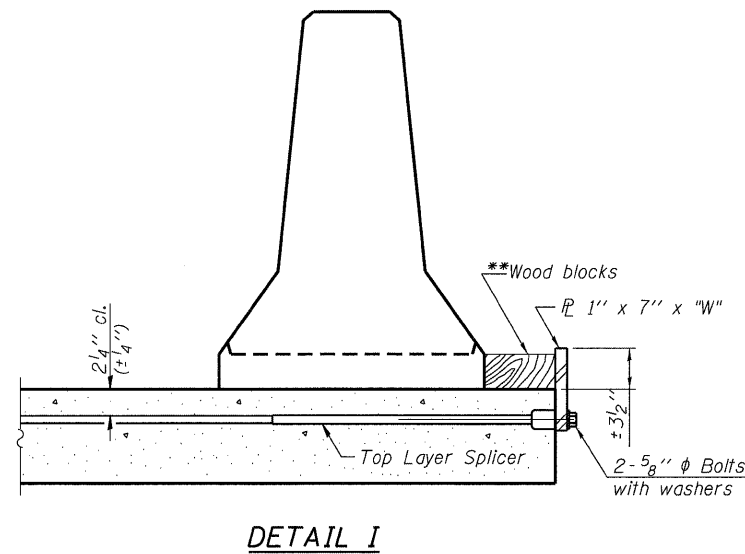
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



STEEL RETAINER \bar{P} 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

N:\PROJ\0003377_00\Design\Structure\016-2818-04 Temporary Barrier-Details.dgn

R-27

7-1-10



USER NAME = rdonley	DESIGNED BWS	REVISED -
	CHECKED SCD	REVISED -
PLOT SCALE = 0:1' = 1/4"	DRAWN RD	REVISED -
PLOT DATE = 10/25/2011	CHECKED DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-2818

SHEET NO. S-4 OF S-17 SHEETS

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 29
CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	

WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	36+30.75	-29.75	624.54	624.54
S. End of Deck	36+31.25	-29.75	624.54	624.54
A	36+41.25	-29.75	624.60	624.64
B	36+51.25	-29.75	624.63	624.69
C	36+61.25	-29.75	624.62	624.67
D	36+71.25	-29.75	624.58	624.59
N. End of Deck	36+76.75	-29.75	624.54	624.54
Bk. of N. Abut.	36+77.25	-29.75	624.54	624.54

WEST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	36+30.75	-22.00	624.33	624.33
S. End of Deck	36+31.25	-22.00	624.33	624.33
A	36+41.25	-22.00	624.39	624.43
B	36+51.25	-22.00	624.42	624.48
C	36+61.25	-22.00	624.41	624.46
D	36+71.25	-22.00	624.37	624.38
N. End of Deck	36+76.75	-22.00	624.33	624.33
Bk. of N. Abut.	36+77.25	-22.00	624.33	624.33

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	36+30.75	-3.50	624.62	624.62
S. End of Deck	36+31.25	-3.50	624.62	624.62
A	36+41.25	-3.50	624.68	624.72
B	36+51.25	-3.50	624.71	624.77
C	36+61.25	-3.50	624.70	624.75
D	36+71.25	-3.50	624.66	624.67
N. End of Deck	36+76.75	-3.50	624.62	624.62
Bk. of N. Abut.	36+77.25	-3.50	624.62	624.62

ROADWAY AND PROFILE GRADE

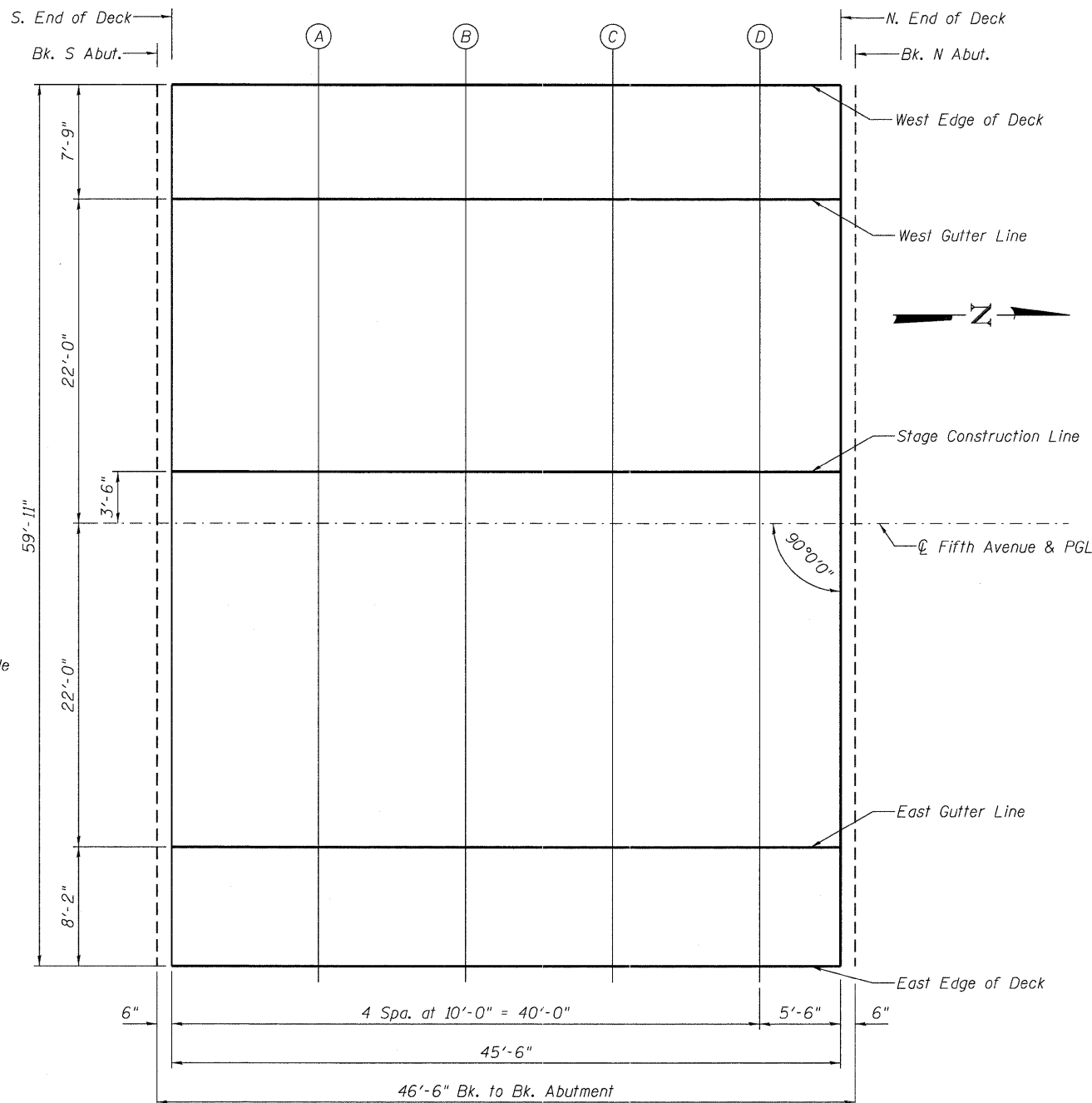
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	36+30.75	0.00	624.67	624.67
S. End of Deck	36+31.25	0.00	624.68	624.68
A	36+41.25	0.00	624.74	624.78
B	36+51.25	0.00	624.76	624.82
C	36+61.25	0.00	624.76	624.80
D	36+71.25	0.00	624.72	624.73
N. End of Deck	36+76.75	0.00	624.68	624.68
Bk. of N. Abut.	36+77.25	0.00	624.67	624.67

EAST GUTTER LINE

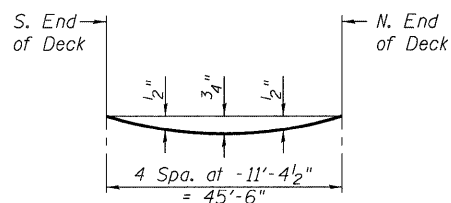
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	36+30.75	22.00	624.33	624.33
S. End of Deck	36+31.25	22.00	624.33	624.33
A	36+41.25	22.00	624.39	624.43
B	36+51.25	22.00	624.42	624.48
C	36+61.25	22.00	624.41	624.46
D	36+71.25	22.00	624.37	624.38
N. End of Deck	36+76.75	22.00	624.33	624.33
Bk. of N. Abut.	36+77.25	22.00	624.33	624.33

EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	36+30.75	30.17	624.54	624.54
S. End of Deck	36+31.25	30.17	624.54	624.54
A	36+41.25	30.17	624.60	624.64
B	36+51.25	30.17	624.63	624.69
C	36+61.25	30.17	624.62	624.67
D	36+71.25	30.17	624.58	624.59
N. End of Deck	36+76.75	30.17	624.54	624.54
Bk. of N. Abut.	36+77.25	30.17	624.54	624.54



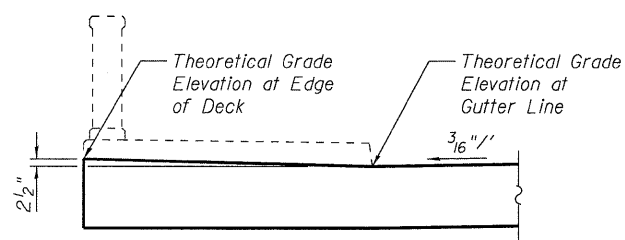
PLAN



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.



SIDEWALK DETAIL

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WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	36+06.25	-29.08	624.34
A1	36+16.25	-29.08	624.41
A2	36+26.25	-29.75	624.50
N. End South Appr. Pav't	36+31.25	-29.75	624.55

WEST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	36+06.25	-22.00	624.15
A1	36+16.25	-22.00	624.22
A2	36+26.25	-22.00	624.30
N. End South Appr. Pav't	36+31.25	-22.00	624.34

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	36+06.25	-3.50	624.43
A1	36+16.25	-3.50	624.51
A2	36+26.25	-3.50	624.59
N. End South Appr. Pav't	36+31.25	-3.50	624.63

ROADWAY AND PROFILE GRADE

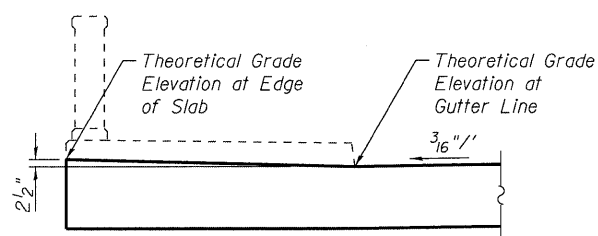
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	36+06.25	0.00	624.49
A1	36+16.25	0.00	624.56
A2	36+26.25	0.00	624.64
N. End South Appr. Pav't	36+31.25	0.00	624.68

EAST GUTTER LINE

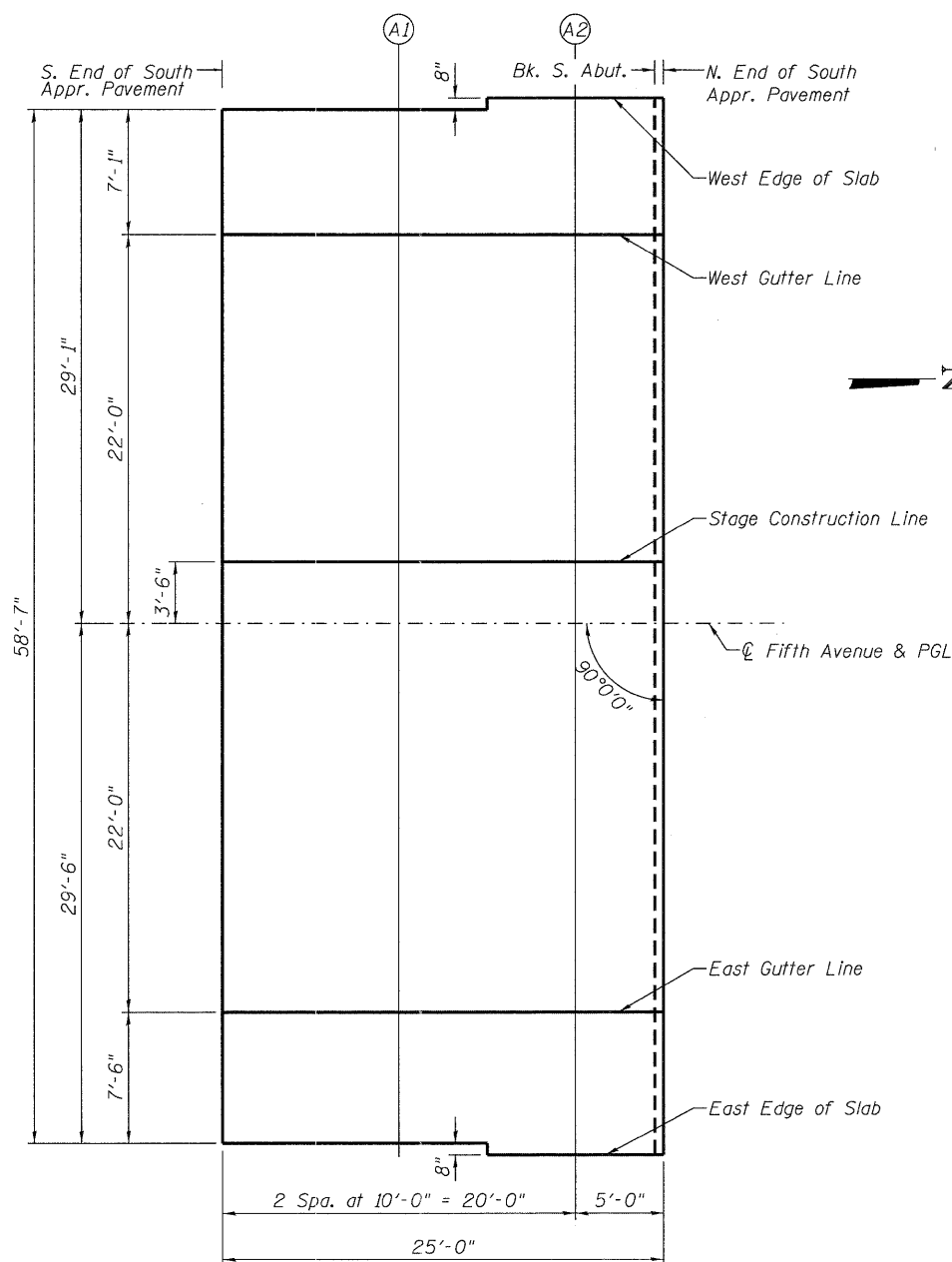
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	36+06.25	22.00	624.15
A1	36+16.25	22.00	624.22
A2	36+26.25	22.00	624.30
N. End South Appr. Pav't	36+31.25	22.00	624.34

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	36+06.25	29.50	624.34
A1	36+16.25	29.50	624.41
A2	36+26.25	30.17	624.50
N. End South Appr. Pav't	36+31.25	30.17	624.55



SIDEWALK DETAIL



PLAN

N:\PROJECTS\0003377_00\0003377_06\Design\Structural\CAD\016-2818_06 Top of South Approach Slab Elevations.dgn

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	36+76.75	-29.08	* 624.60
A3	36+86.75	-29.08	* 624.47
N. End North Appr. Pav't	36+96.75	-29.08	* 624.35

WEST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	36+76.75	-22.00	624.33
A3	36+86.75	-22.00	* 624.21
N. End North Appr. Pav't	36+96.75	-22.00	* 624.10

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	36+76.75	-3.50	624.62
A3	36+86.75	-3.50	624.53
N. End North Appr. Pav't	36+96.75	-3.50	624.42

ROADWAY AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	36+76.75	0.00	624.68
A3	36+86.75	0.00	624.58
N. End North Appr. Pav't	36+96.75	0.00	624.47

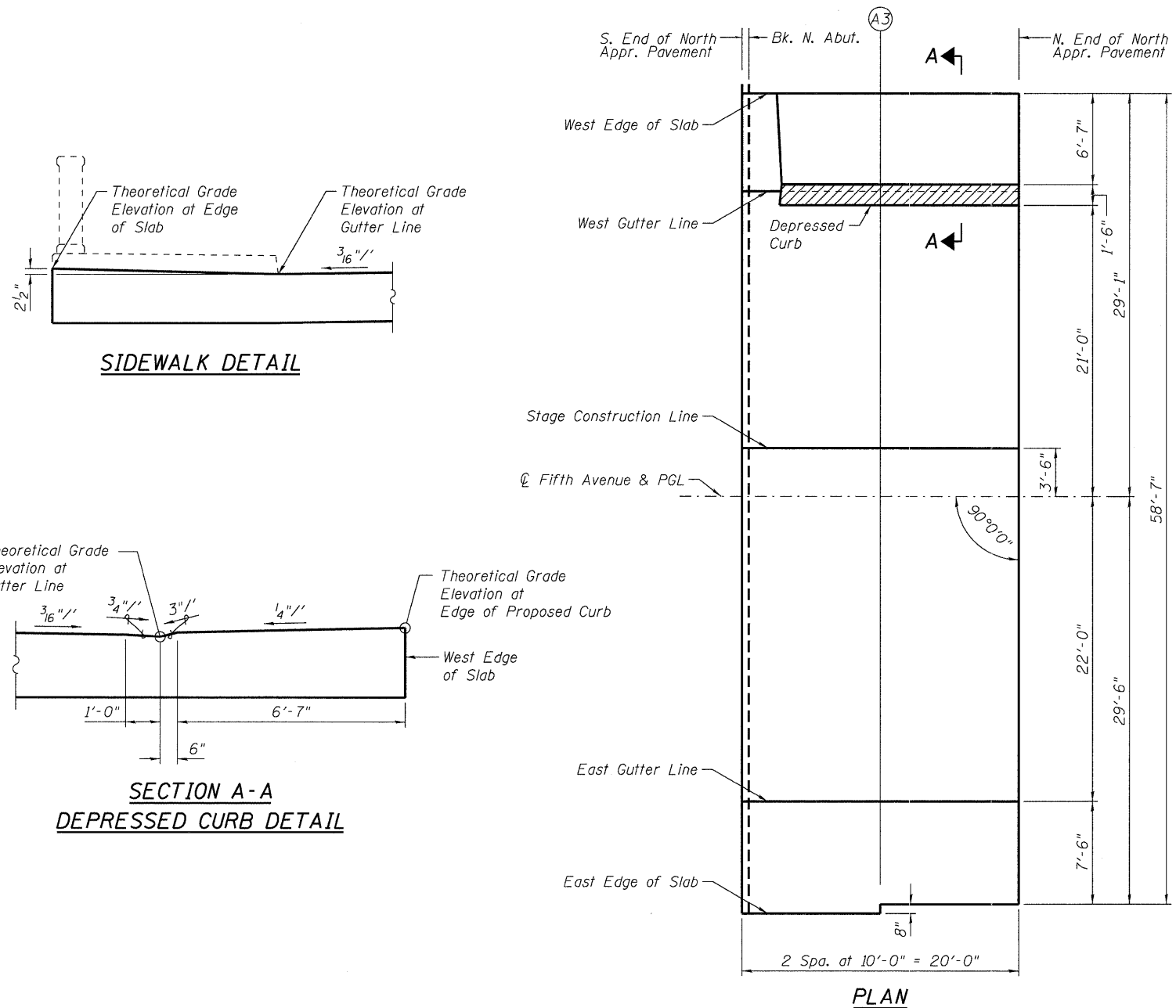
EAST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	36+76.75	22.00	624.33
A3	36+86.75	22.00	624.24
N. End North Appr. Pav't	36+96.75	22.00	624.13

EAST EDGE OF SLAB

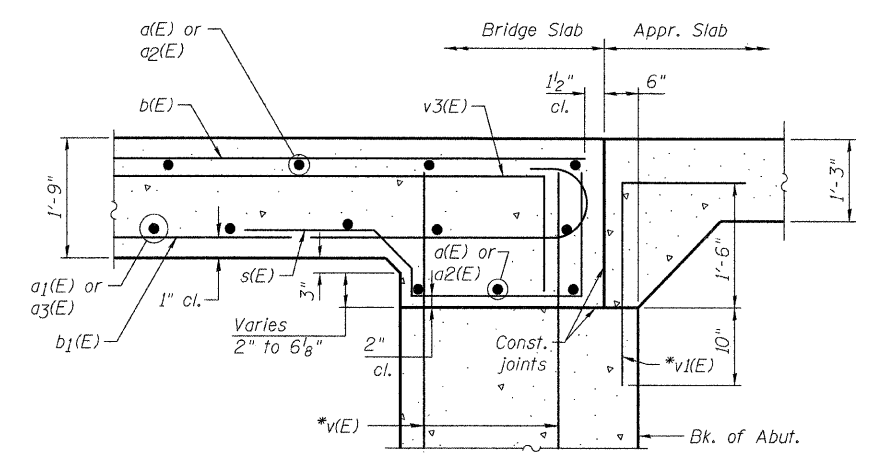
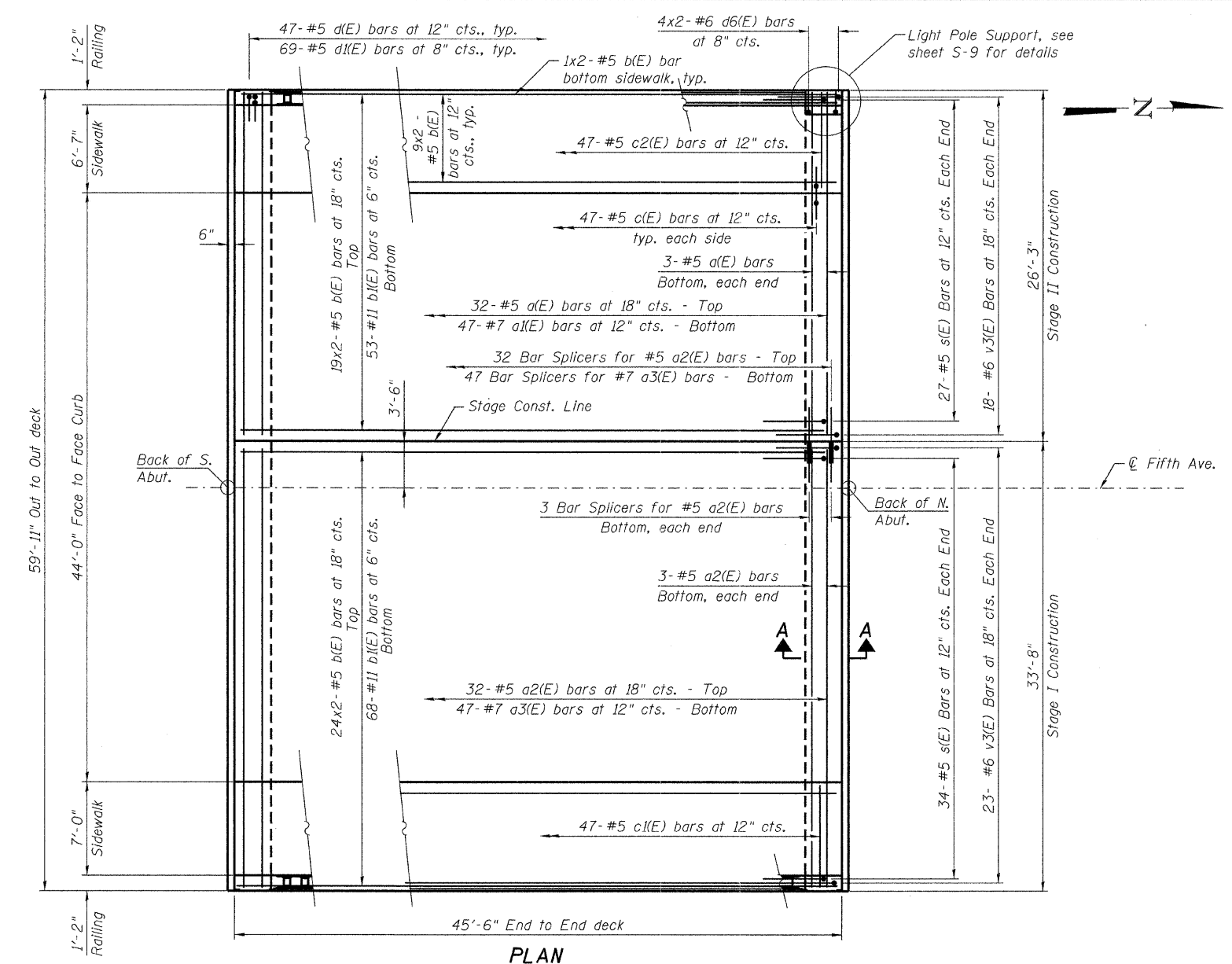
Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	36+76.75	30.17	624.54
A3	36+86.75	30.17	624.45
N. End North Appr. Pav't	36+96.75	29.50	* 624.70

* Elevations adjusted for depressed curb, see detail.



N:\PROJ\0003377\00\0003377\06\Design\Structural\CAD\016-2818_07_Top of North Approach Slab Elevations.dgn

N:\PROJ\0003377\00\0023377\06\Design\Structural\CAD\016-2818_06 Deck and Cross Section.dgn



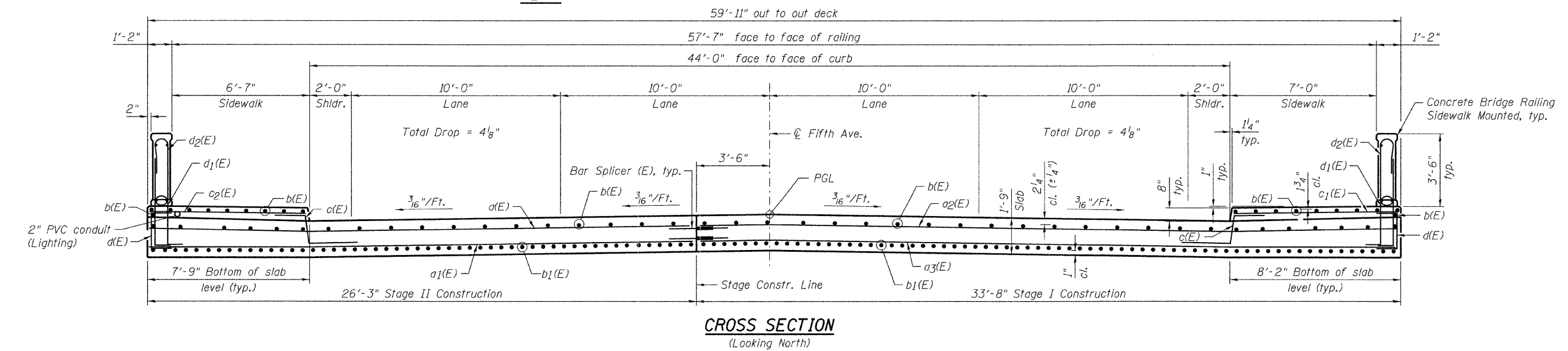
SECTION A-A

Pour bridge slab before pouring approach slab.
 *v(E) and v1(E) bars included with the abutments on sheet S-13.

MINIMUM BAR LAP
 #5 Bars = 2'-11"

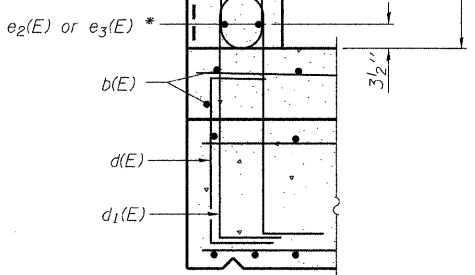
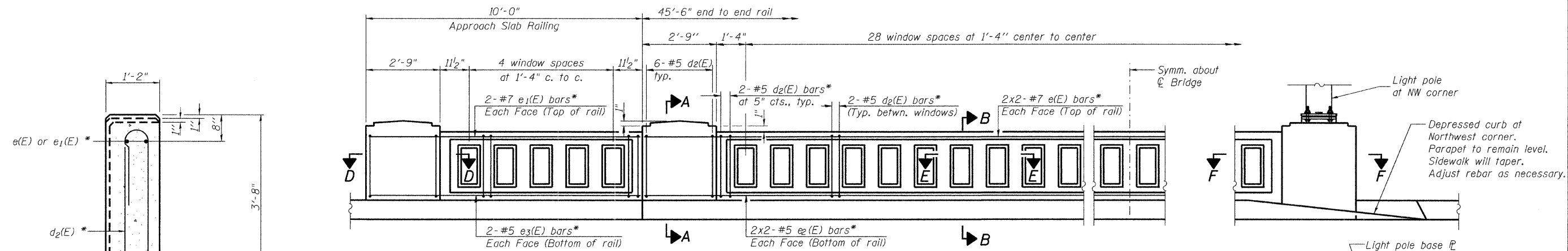
NOTES:

- See sheet S-10 for Superstructure details and Bill of Material.
- Bars indicated thus 20x3 - #5 etc. indicates 20 lines of bars with 3 lengths per line.
- See sheet S-9 for sidewalk details and bridge rail reinforcement.



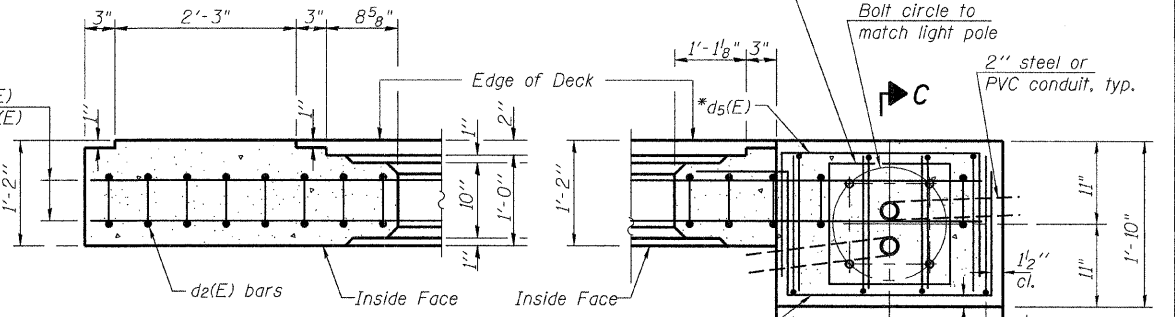
CROSS SECTION
 (Looking North)

<p> Clorba Group, Inc. CONSULTING ENGINEERS 500 West Chicago Avenue Chicago, Illinois 60610 Tel: 312.775.4399 Fax: 312.775.4314 Email: chicago@clorba.com </p>	USER NAME = bsauter PLOT SCALE = 5/4 1' / in. PLOT DATE = 12/5/2011	DESIGNED BWS CHECKED LVH DRAWN RD CHECKED AMK	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE PLAN AND CROSS SECTION STRUCTURE NO. 016-2818 SHEET NO. S-8 OF S-17 SHEETS	F.A.U. RTE. 2742 SECTION 3222-W-BR COUNTY COOK TOTAL SHEETS 51 SHEET NO. 33 CONTRACT NO. 62116 ILLINOIS FED. AID PROJECT
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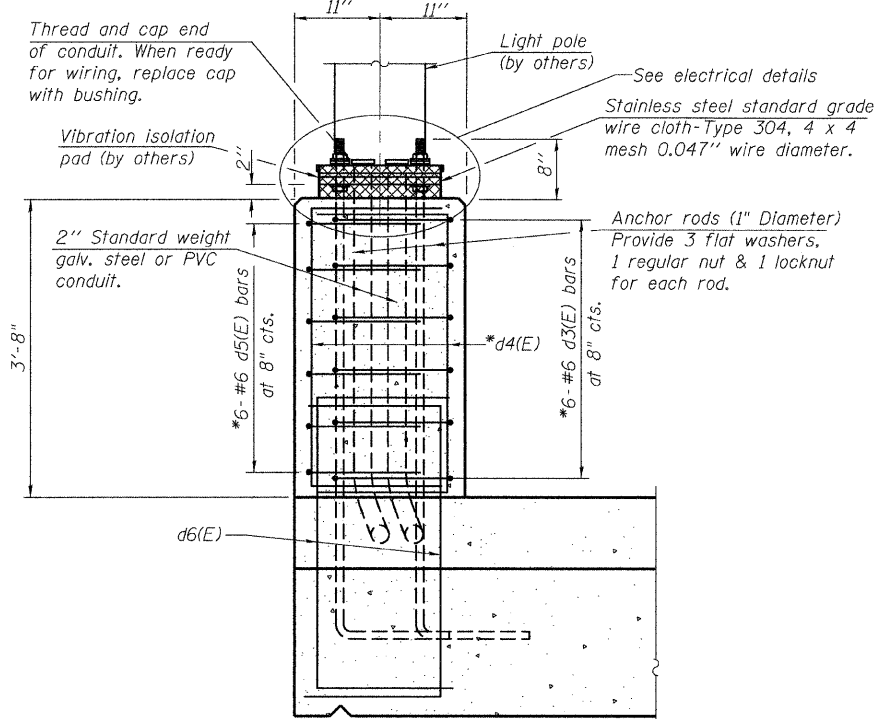


SECTION A-A

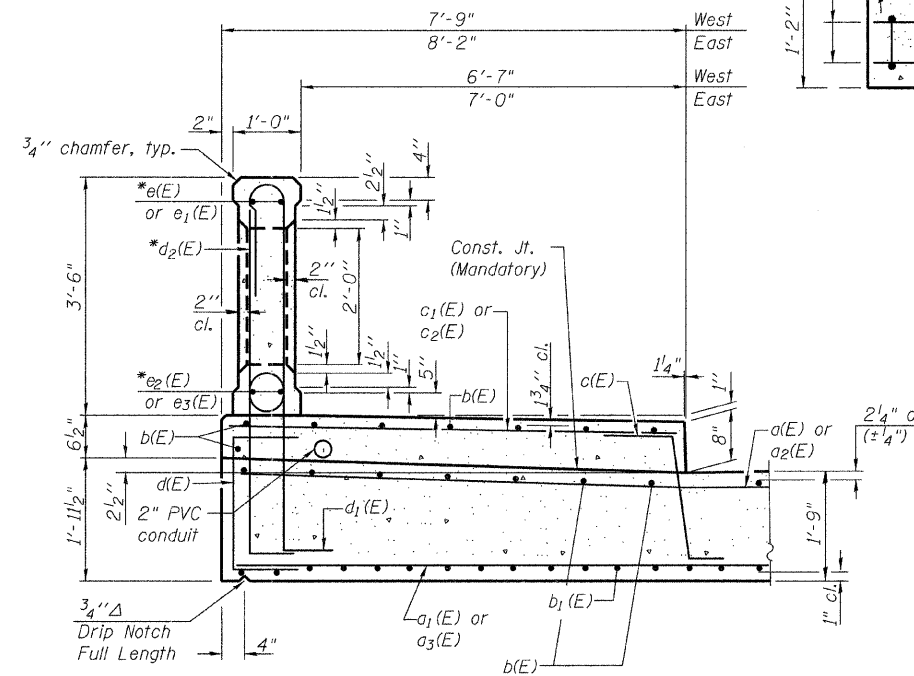
INSIDE ELEVATION OF RAIL
Omit Approach Slab Railing on Northwest corner



SECTION D-D

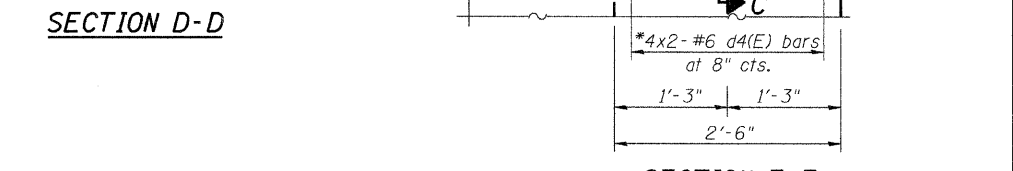


SECTION C-C
Rebars shown in Section A-A omitted for clarity

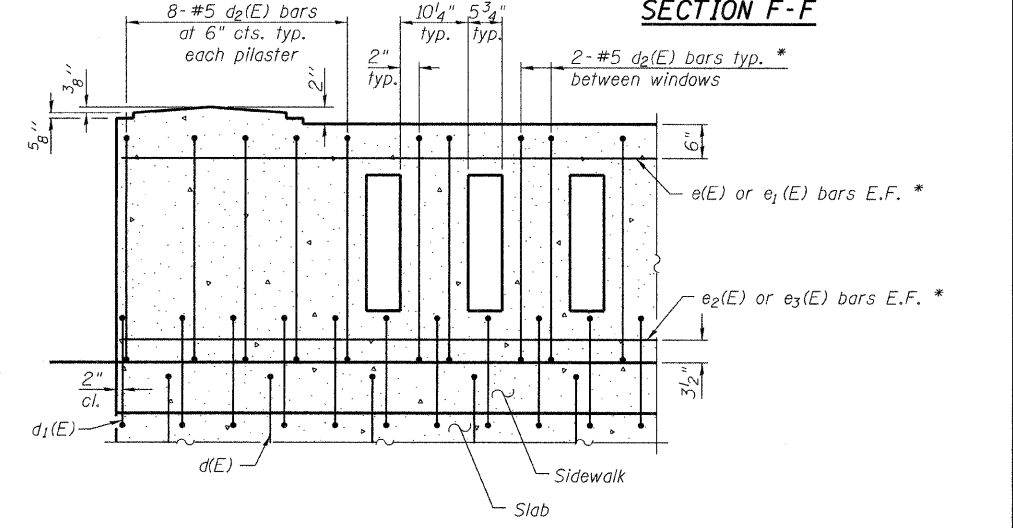


SECTION B-B

*Bars e(E) thru e3(E), d2(E), d3(E), d4(E), and d5(E) are included in the cost of Concrete Bridge Railing, Sidewalk Mounted.



SECTION F-F



TYPICAL REINFORCEMENT PLACEMENT
(Inside Face)

BAR LIST
For Information Only

Bar	No.	Size	Length	Shape
d2(E)	198	# 5	8'-8"	U
d3(E)	6	# 6	5'-11"	U
d4(E)	8	# 6	6'-4"	U
d5(E)	6	# 6	5'-2"	U
e(E)	8	# 7	25'-6"	—
e1(E)	6	# 7	9'-8"	—
e2(E)	8	# 5	24'-3"	—
e3(E)	6	# 5	9'-8"	—

For bar details see sheet S-10.

MINIMUM BAR LAP

#5 Bars = 3'-3"
#7 Bars = 5'-10"

NOTES:

- All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.
- All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Railing, Sidewalk Mounted.
- Holes and recesses must be formed or cored. Drilling is not permitted.
- Cost of anchor rods and conduit is included with Concrete Superstructure. See sheet S-10 for Anchor Rod details.
- For Section E-E see sheet S-10.

\\svr202\Public\PROJ\00023377\00\0003377\06\Design\Structural\Concrete\Railings\Railings.dgn

Clorba Group, Inc.
CONSULTING ENGINEERS
602 North Chestnut Street
Suite 202, Chicago, Illinois 60606
Tel: 773.775.4911
Fax: 773.775.4912
Email: clorba@clorba.com

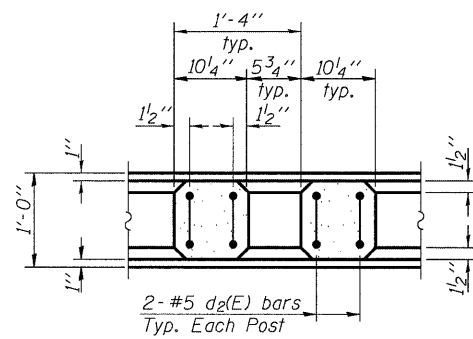
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

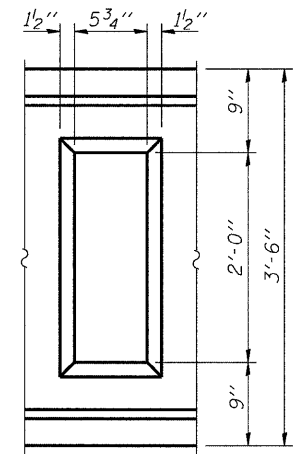
CONCRETE BRIDGE RAILING SIDEWALK MOUNTED
STRUCTURE NO. 016-2818
SHEET NO. S-9 OF S-17 SHEETS

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 34
CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	

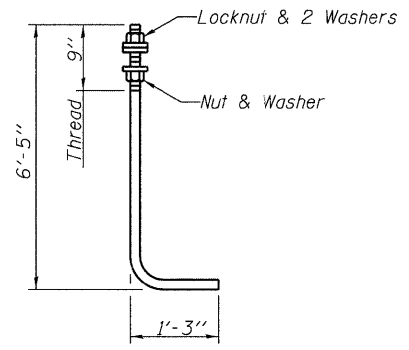
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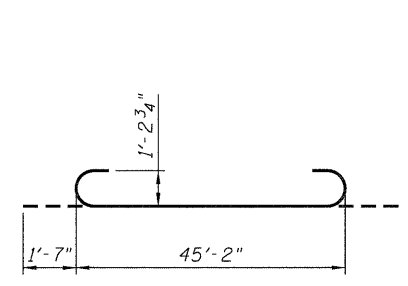
SECTION E-E



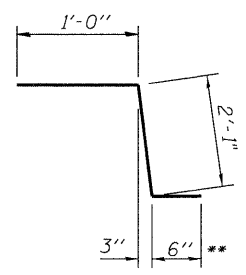
WINDOW DETAIL



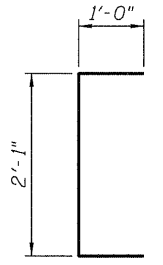
ANCHOR ROD FOR LIGHT POLE
1" Diameter (ASTM F 1554 Grade 105)



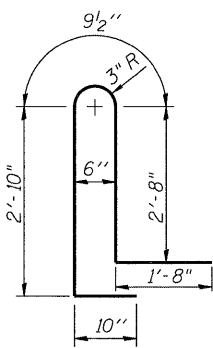
BAR b1(E)



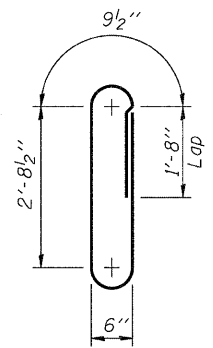
BAR c(E)



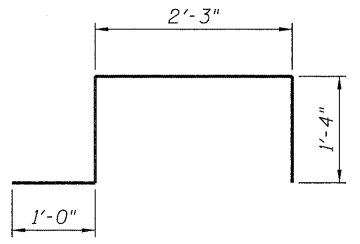
BAR d(E)



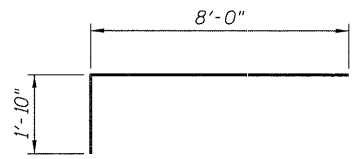
BAR d1(E)



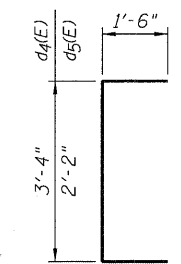
BAR d2(E)*



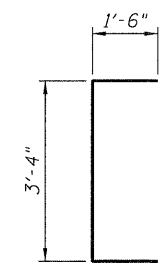
BAR d3(E)*



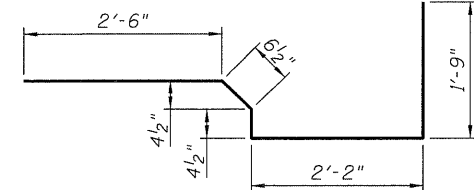
BAR v3(E)



*** BARS d4(E) & d5(E)**



BAR d6(E)



BAR s(E)

* Bars d2(E) thru d5(E) are included in the cost of Concrete Bridge Railing Sidewalk Mounted.
** In lieu of bottom leg, c(E) bars may be cored and set according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	38	# 5	25'-11"	—
a1(E)	47	# 7	25'-11"	—
a2(E)	38	# 5	33'-4"	—
a3(E)	47	# 7	33'-4"	—
b(E)	126	# 5	24'-1"	—
b1(E)	121	# 11	48'-4"	⌋
c(E)	94	# 5	3'-7"	⌋
c1(E)	47	# 5	7'-10"	—
c2(E)	47	# 5	7'-5"	—
d(E)	94	# 5	4'-1"	⌋
d1(E)	138	# 5	8'-10"	⌋
d6(E)	8	# 6	6'-4"	⌋
s(E)	122	# 5	7'-4"	⌋
v3(E)	82	# 6	9'-10"	⌋
Reinforcement Bars, Epoxy Coated			Pound	47,270
Concrete Superstructure			Cu. Yds.	202.8
Concrete Bridge Rail, Sidewalk Mounted			Foot	121
Bridge Deck Grooving			Sq. Yds.	213
Protective Coat			Sq. Yds.	377
Bar Splicers			Each	85
Rubbed Finish			Sq. Ft.	917

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.



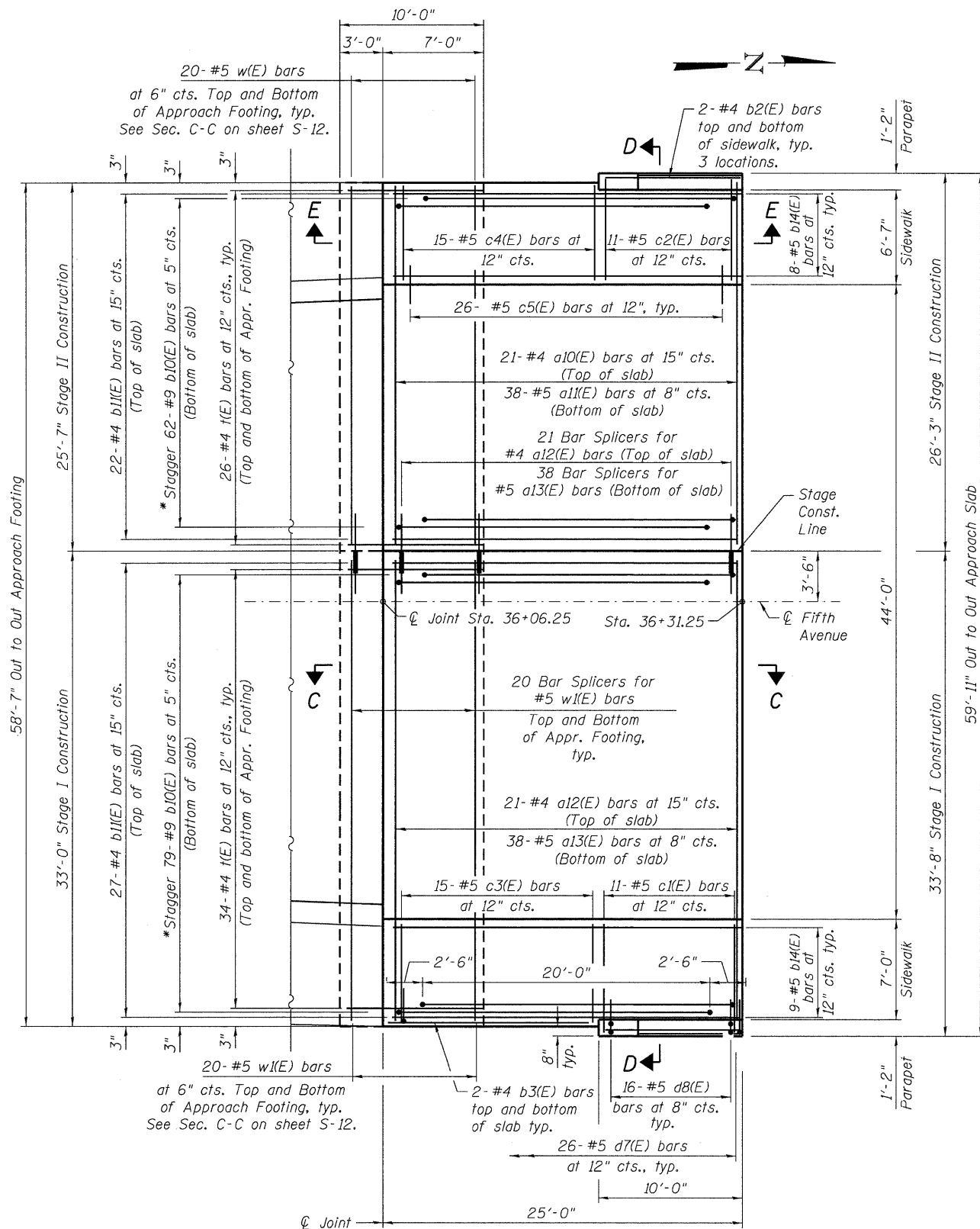
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DRAWN RD	REVISIONS	
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PLOT DATE = 10/25/2011		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

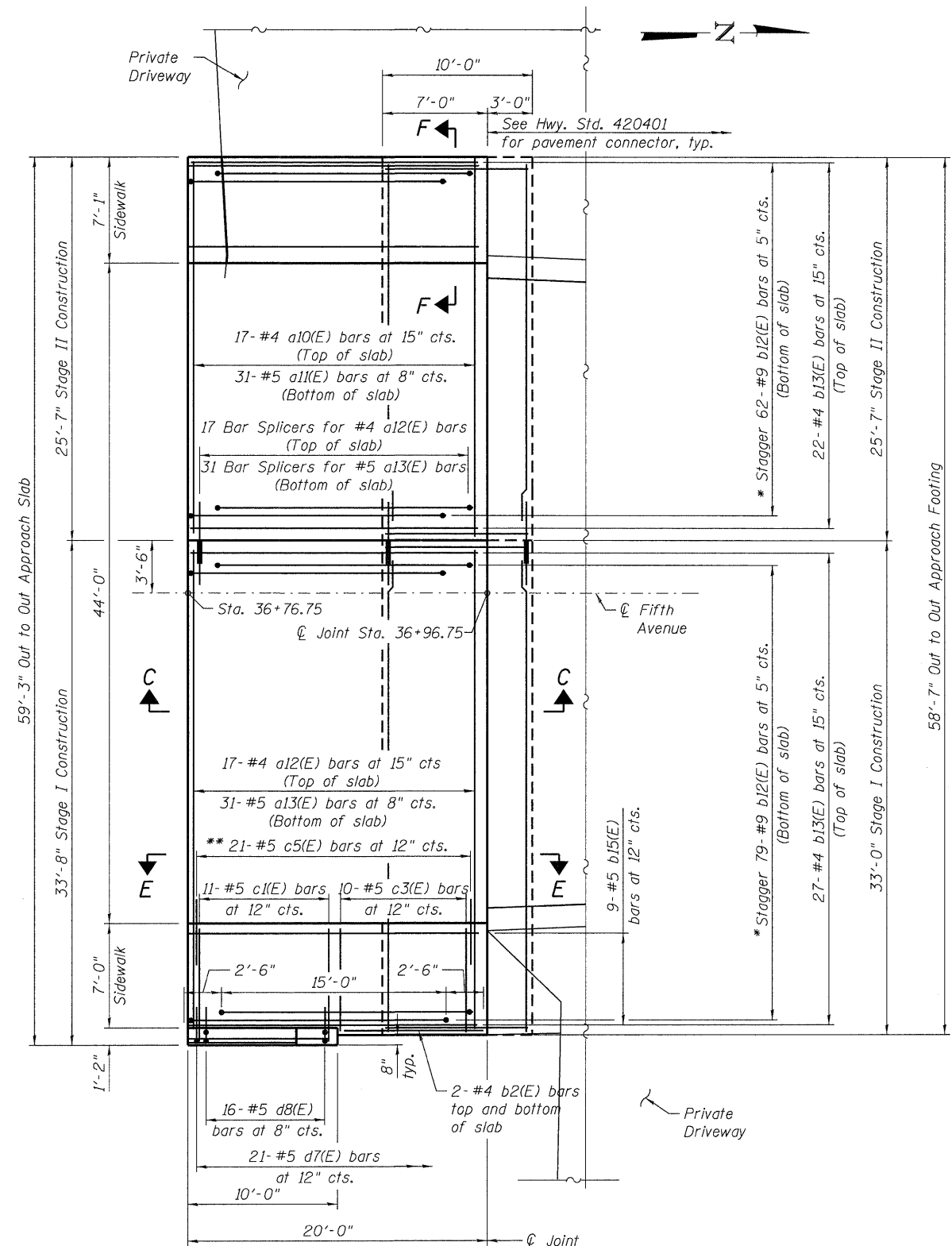
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 016-2818**
SHEET NO. S-10 OF S-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	35
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

N:\PROJECTS\0003377_000\0003377_000\Design\Structural\CAD\016-2818 11 Bridge Approach Slab Details 1of2.dgn



SOUTH APPROACH PLAN



NORTH APPROACH PLAN

* Tilt #9 b10(E) and b12(E) bars as required to maintain clearance.

** Adjust c5(E) bars at North end of approach to allow for sidewalk transition.

NOTE

Sections C-C, D-D, E-E, and F-F shown on sheet S-12.



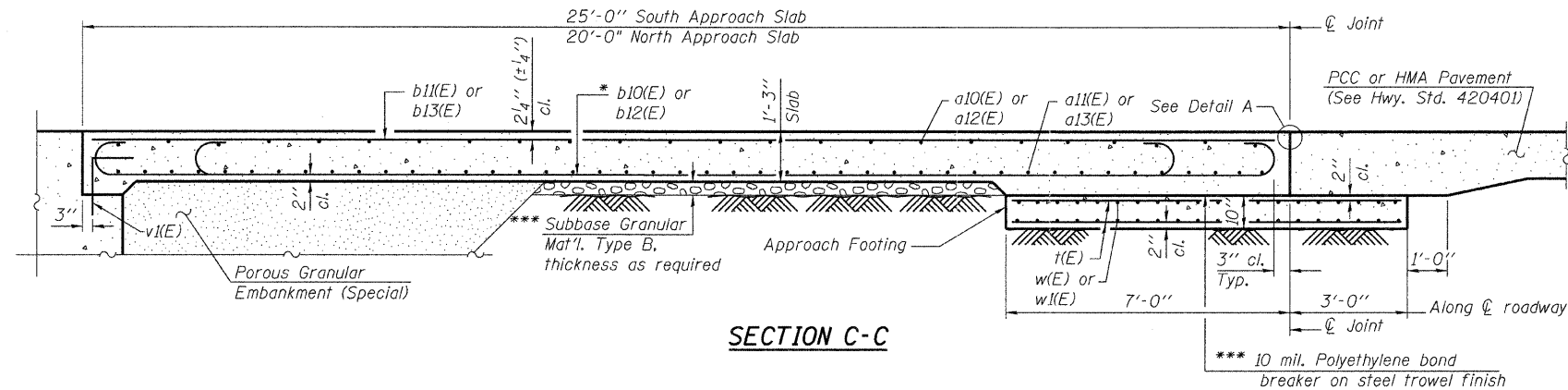
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

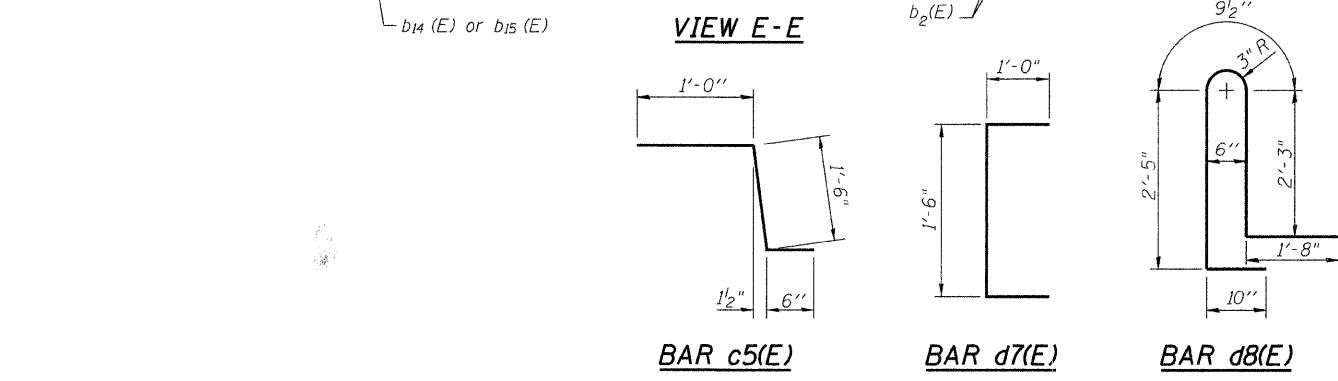
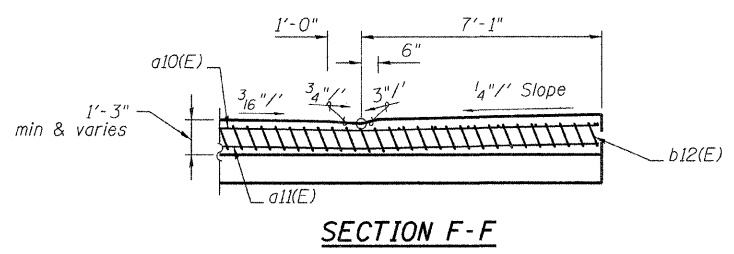
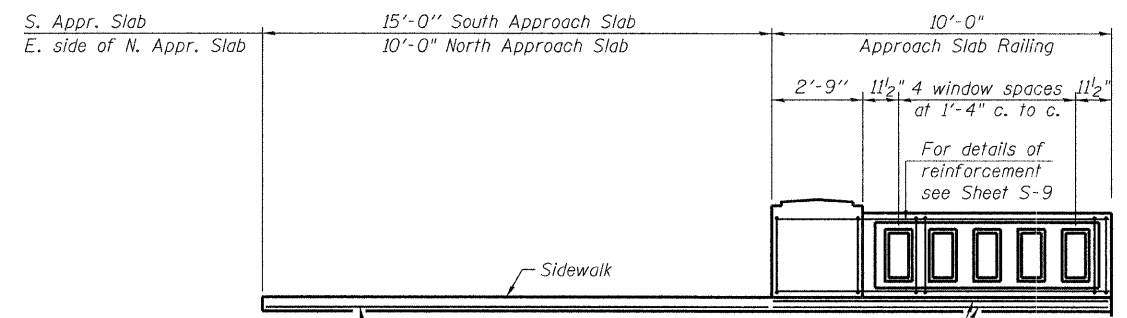
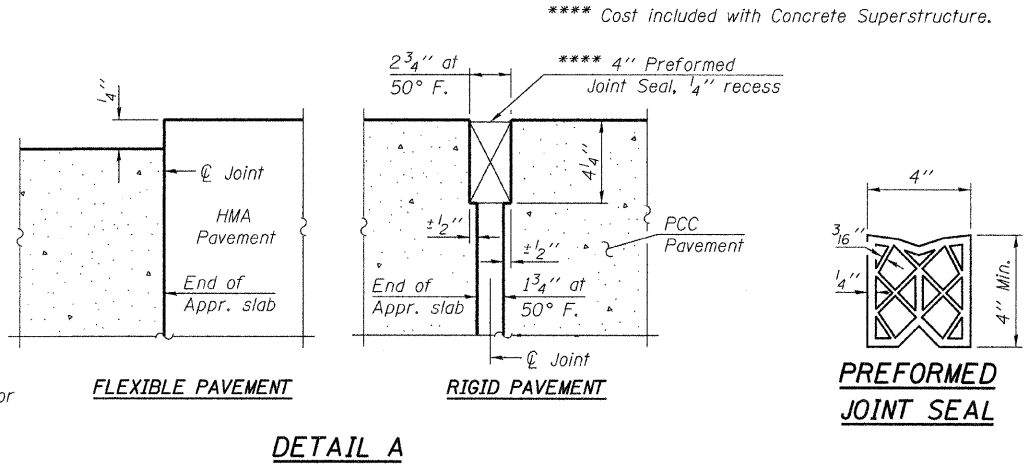
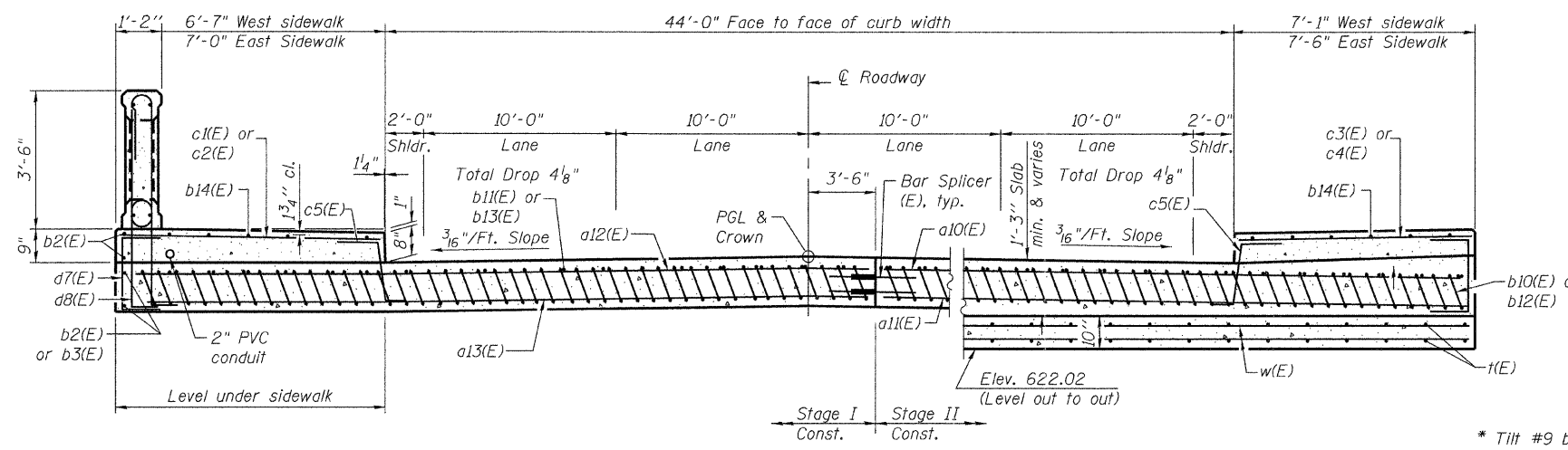
**BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 016-2818**

SHEET NO. S-11 OF S-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	36
CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	



NOTES:
 Approach slab 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.
 For v1(E) bar details, see sheet S-13.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet S-15.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet S-2.
 For additional Concrete Railing details, see S-9. The Concrete Railing shall be paid for as Concrete Bridge Rail Sidewalk Mounted.

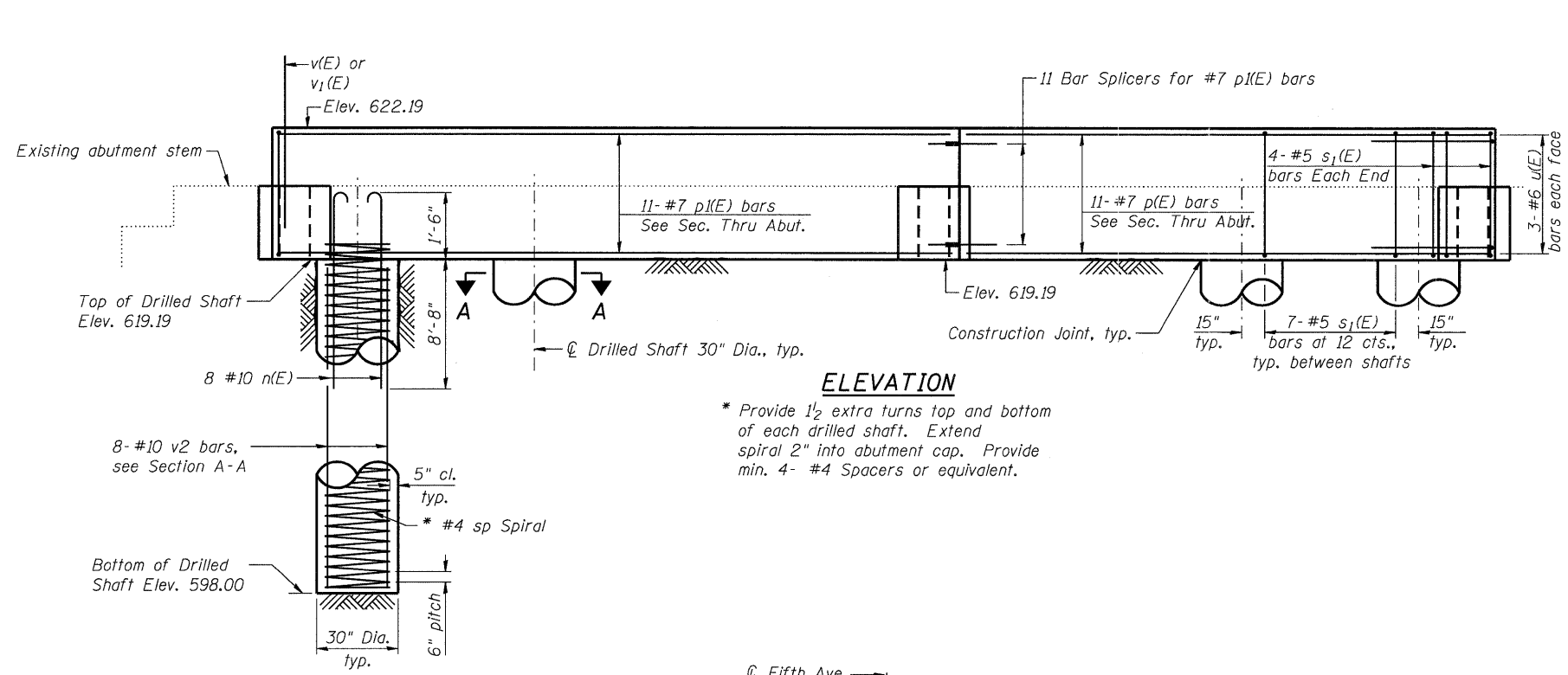


**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	38	# 4	25'-3"	—
a11(E)	69	# 5	25'-3"	—
a12(E)	38	# 4	32'-8"	—
a13(E)	69	# 5	32'-8"	—
b2(E)	8	# 4	9'-8"	—
b3(E)	4	# 4	14'-8"	—
b10(E)	141	# 9	24'-9"	—
b11(E)	49	# 4	24'-8"	—
b12(E)	141	# 9	19'-9"	—
b13(E)	49	# 4	19'-8"	—
b14(E)	17	# 5	24'-8"	—
b15(E)	9	# 5	19'-8"	—
c1(E)	22	# 5	7'-10"	—
c2(E)	11	# 5	7'-5"	—
c3(E)	25	# 5	7'-2"	—
c4(E)	15	# 5	6'-9"	—
c5(E)	73	# 5	3'-0"	—
d7(E)	73	# 5	3'-6"	—
d8(E)	48	# 5	8'-0"	—
t(E)	240	# 4	9'-8"	—
w(E)	80	# 5	25'-3"	—
w1(E)	80	# 5	32'-8"	—
Reinforcement Bars, Epoxy Coated		Pound	36,680	
Concrete Superstructure		Cu. Yd.	144.7	
Bar Splicers		Each	187	
Concrete Structures		Cu. Yd.	36.2	
Bridge Deck Grooving		Sq. Yd.	2.10	
Protective Coat		Sq. Yd.	3.18	

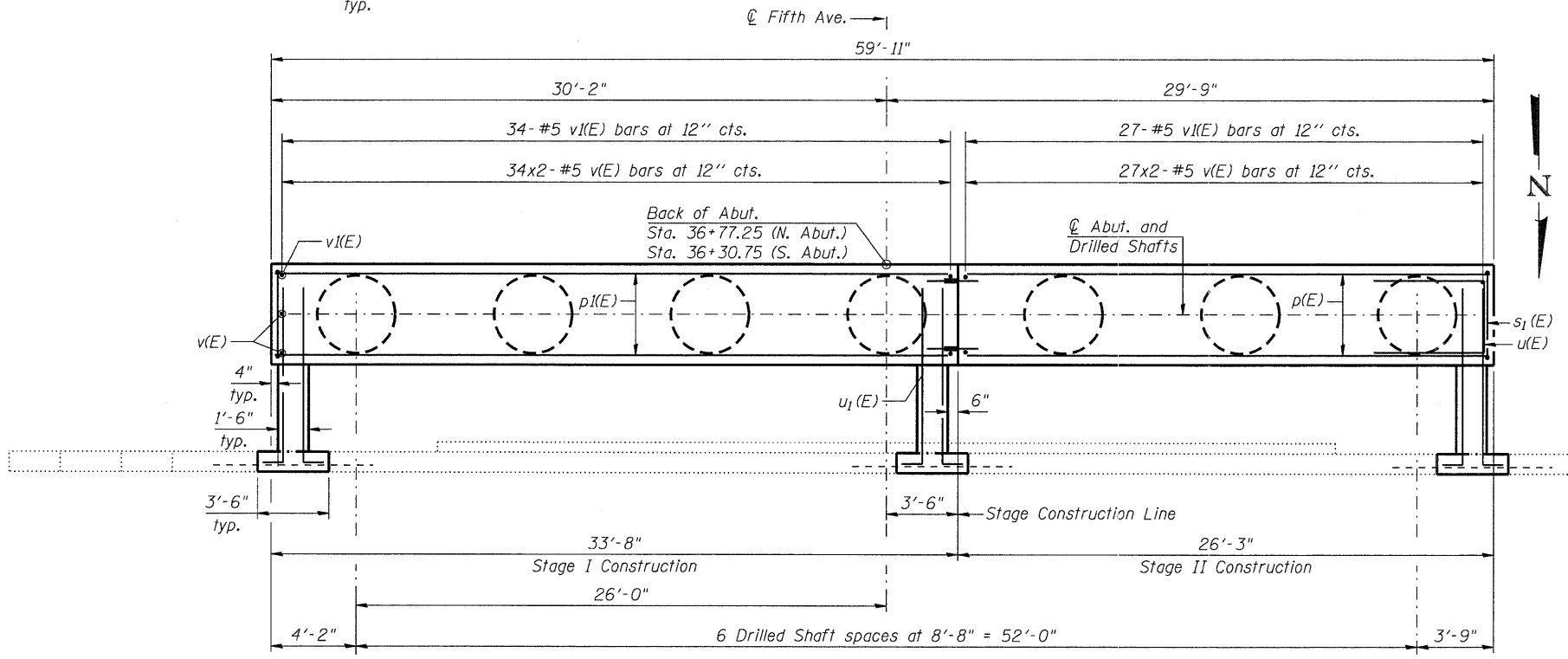
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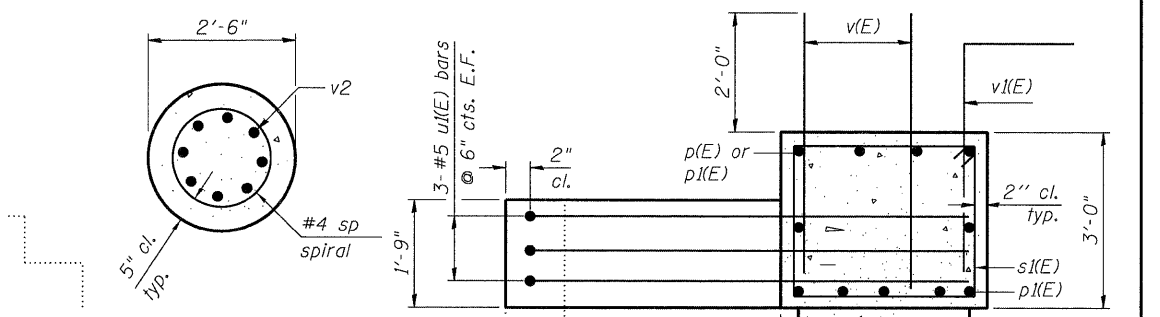
ELEVATION

* Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 2" into abutment cap. Provide min. 4- #4 Spacers or equivalent.

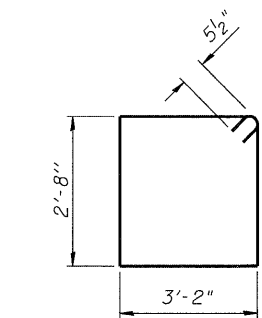


PLAN

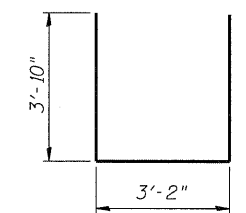
(South Abutment Shown, N. Abutment similar opposite hand)



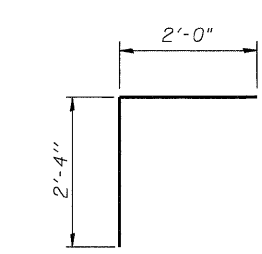
SECTION A-A



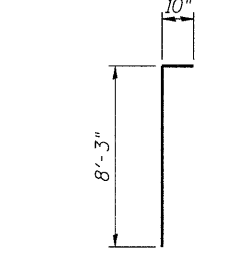
BAR s1(E)



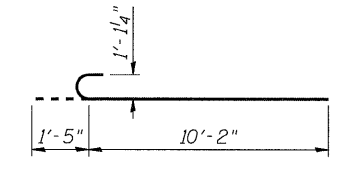
BAR u(E)



BAR v1(E)



BAR u1(E)



BAR n(E)

SEC. THRU ABUT. AT TIE WALLS

BILL OF MATERIAL

Quantities For Two Abutments

Bar	No.	Size	Length	Shape
n(E)	112	# 10	11'-7"	U
p(E)	22	# 7	25'-11"	—
p1(E)	22	# 7	33'-4"	—
s1(E)	100	# 5	12'-7"	□
u(E)	12	# 6	10'-10"	U
u1(E)	36	# 5	9'-1"	U
v(E)	244	# 5	4'-4"	—
v1(E)	122	# 5	4'-4"	—
v2	112	# 10	20'-10"	—
sp	14	# 4	21'-4"	M

Reinforcement Bars, Epoxy Coated	Pound	13,830
Reinforcement Bars	Pound	10,040
Structure Excavation	Cu. Yd.	246
Concrete Structures	Cu. Yd.	50.8
Drilled Shaft in Soil	Cu. Yd.	56.6
Bar Splicers	Each	22
Pipe Underdrain for Structures, 4"	Foot	136
Geocomposite Wall Drain	Sq. Yd.	44
Porous Granular Embankment (Special)	Cu. Yd.	86

** Length is height of spiral.

NOTES:

- For details of existing abutment removal, see sheet S-14.
- For details of Bar Splicers, see sheet S-15.
- Temporary casing is recommended for the drilled shafts due to the water table. See Standard Specifications for details.
- Minimum lap for Spirals is 2'-7".



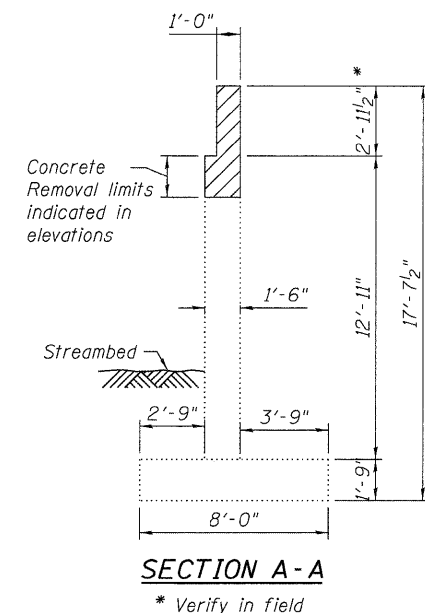
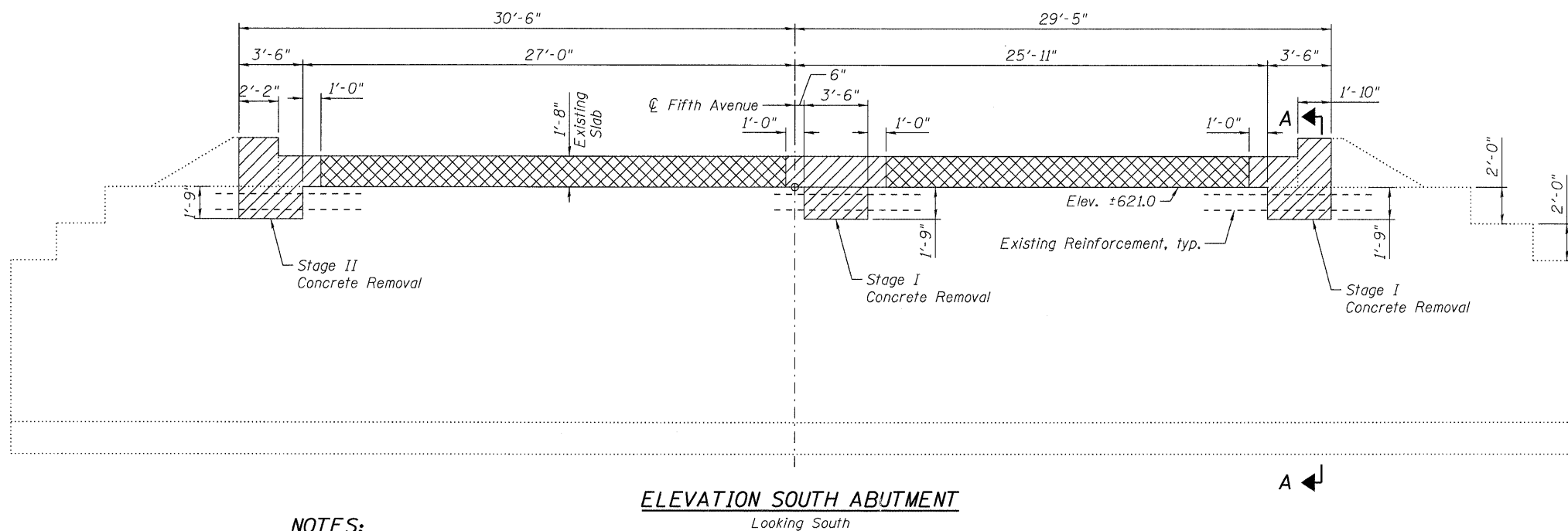
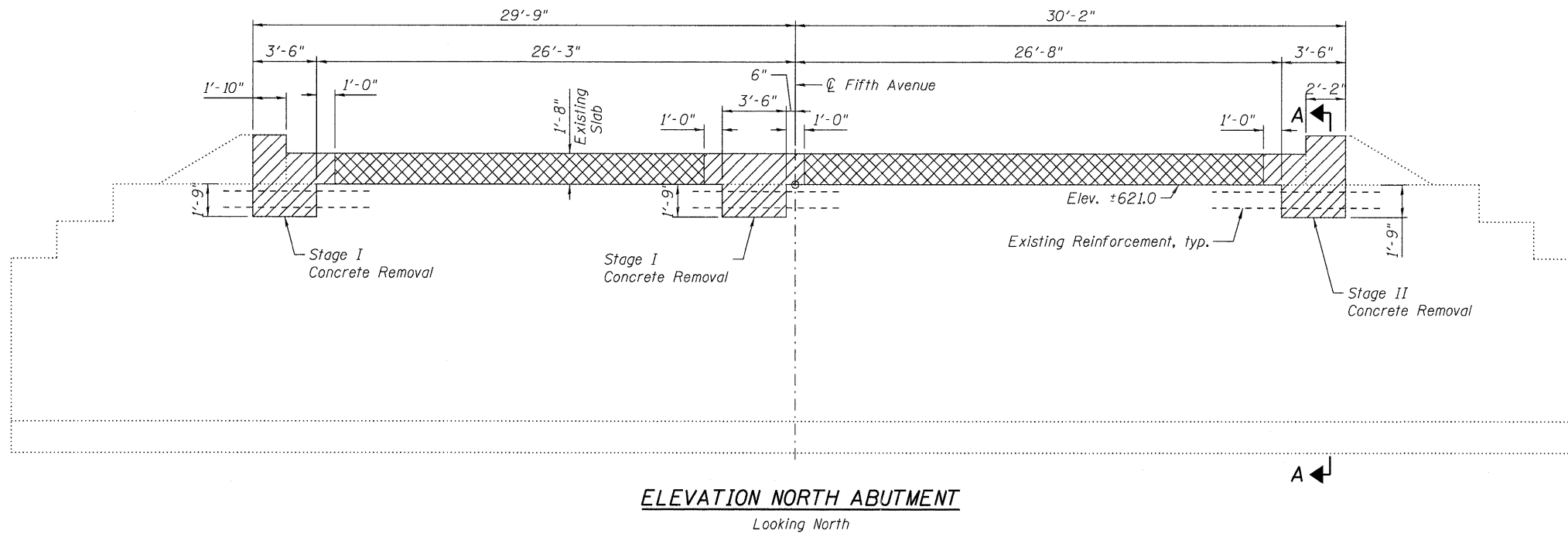
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PLOT DATE = 10/25/2011	DRAWN RD	REVISED -
	CHECKED AMK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
STRUCTURE NO. 016-2818**
SHEET NO. S-13 OF S-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	38

CONTRACT NO. 62116
ILLINOIS FED. AID PROJECT



- NOTES:**
- Existing reinforcement in the abutment to be cleaned and incorporated into proposed construction. Any reinforcement bars that are damaged during partial removal operations at the abutments shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 - The existing deck slab shall be removed a maximum of 3'-0" from the back of abutment in the direction of traffic in all locations.

LEGEND

	Concrete Removal
	Superstructure Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	3.0

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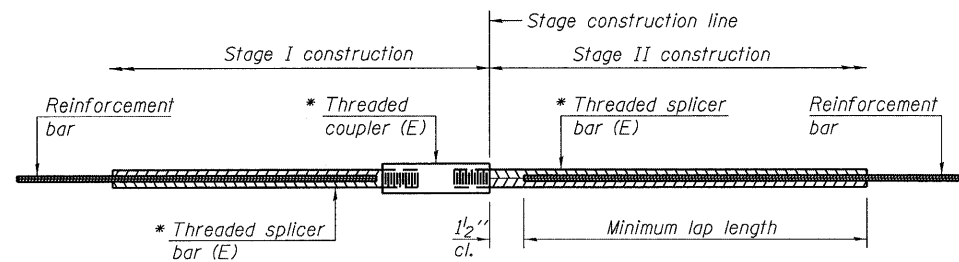


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PLOT DATE = 10/25/2011	DRAWN RD	REVISED -
	CHECKED DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL
STRUCTURE NO. 016-2818
SHEET NO. S-14 OF S-17 SHEETS

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	39
CONTRACT NO. 62116			[ILLINOIS] FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

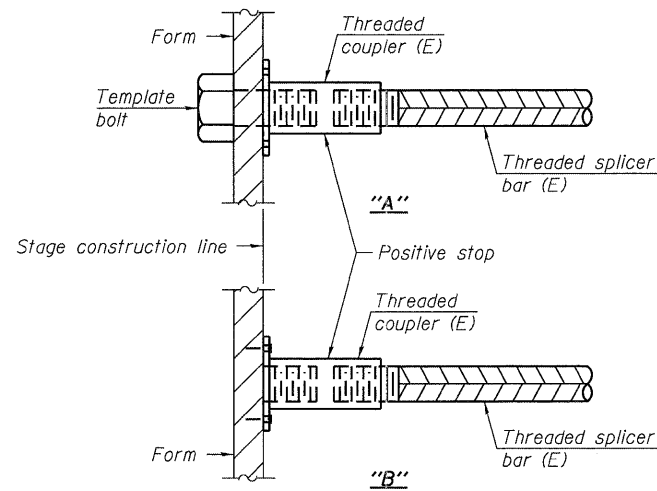
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

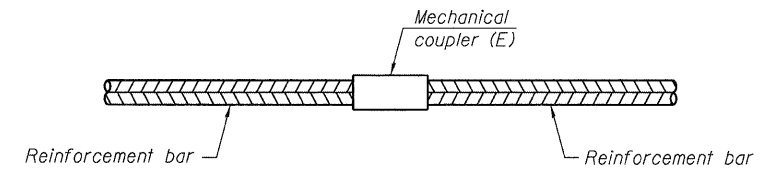
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Approach Slab Footing	#5	80	3
Abutment	#7	22	4
Deck	#5	32	4
Deck	#5	6	3
Deck	#7	47	3
Approach Slab	#4	38	4
Approach Slab	#5	69	3



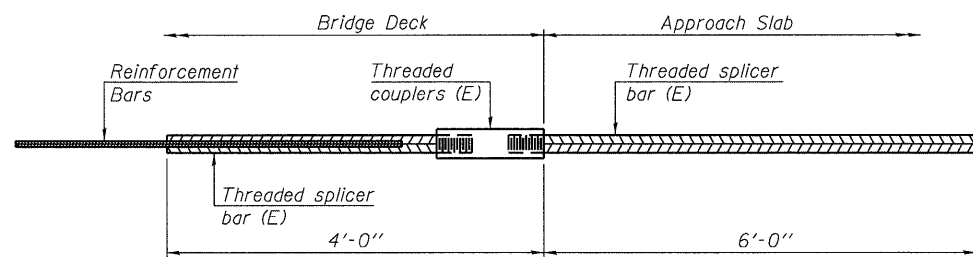
INSTALLATION AND SETTING METHODS

- "A" : Set bar splicer assembly by means of a template bolt.
- "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
- (E) : Indicates epoxy coating.



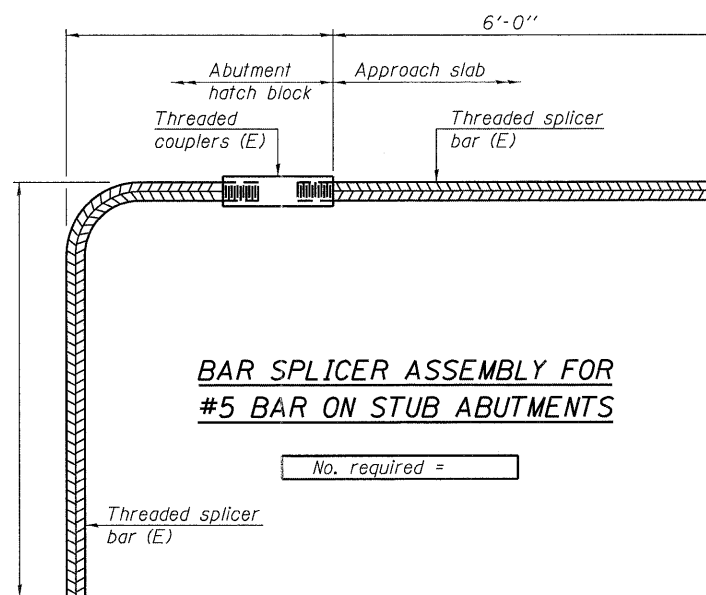
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See special provision for Mechanical Splicers.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10



USER NAME = rdanley	DESIGNED BWS	REVISOR -
PLOT SCALE = 0.1" / 1"	CHECKED DL	REVISOR -
PLOT DATE = 10/25/2011	DRAWN RD	REVISOR -
	CHECKED BWS	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-2818

SHEET NO. S-15 OF S-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	40
CONTRACT NO. 62116				
ILLINOIS FED. AID PROJECT				

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Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2

ROUTE SA 7 DESCRIPTION Bridge Replacement, 5th Ave. over Silver Creek, Melrose Park, Illinois
 SECT. 3222-15D STRUCT. NO. 016-0691 DRILLED BY IDOT DIST. 1
 COUNTY Cook LOCATION SW Corner Bridge S. 2 TWP. 39N RING. 12E

Boring No.	Station	Offset	Surface Elev.	D	B	L	O	Qu	W	Surface Water Elev.	D	B	L	O	Qu	W
1	36+33	17.00ft LT	623.60 ft	H	S			tsf	%	610.6	H	S		tsf	%	
BITUMINOUS & PCC Approach Slab 20" 622.10																
DENSE Light Gray, near White & Black Fine to Medium SILTY SAND 596.60																
VERY STIFF Gray SILT LOAM w/PEBBLES 576.10																
LOOSE Crushed DOLOMITE SAND (FILL) 592.60																
MEDIUM DENSE Gray SAND 591.60																
HARD Gray SILTY CLAY LOAM w/ PEBBLES 590.60																
End of Boring at 56.5'																
CME 750 Drill Rig w/ Automatic Hammer 3.25 inch ID Hollow-Stem Augers																
VERY DENSE Gray Coarse SAND & GRAVEL, TRACE CLAY & SILT 587.10																
COBBLE @ 56.0'																
End of Boring at 56.5'																
CME 750 Drill Rig w/ Automatic Hammer 3.25 inch ID Hollow-Stem Augers																
DENSE Light Gray/Near White and Black Fine to Medium SILTY SAND 611.60																
VERY STIFF to HARD Brown w/Gray Streaks CLAY, PEBBLES, SHALE Bits (TILL) 604.10																
HARD Gray SILTY CLAY LOAM w/PEBBLES, SHALE Bits (TILL) 601.60																
DENSE Gray LOAM w/PEBBLES, SHALE Bits 599.10																

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2

STRUCTURE NO. 016-0691 STRUCTURE NO. 016-0691
 ROUTE SA 7 ROUTE SA 7
 SECTION 3222-15D SECTION 3222-15D
 COUNTY Cook COUNTY Cook

Boring No.	Station	Offset	Surface Elev.	D	B	L	O	Qu	W	Surface Water Elev.	D	B	L	O	Qu	W
1	36+33	17.00ft LT	573.60 ft	H	S			tsf	%	610.6	H	S		tsf	%	
DENSE Light Gray, near White & Black Fine to Medium SILTY SAND 576.10																
VERY DENSE Gray Coarse SAND & GRAVEL, TRACE CLAY & SILT 587.10																
COBBLE @ 56.0'																
End of Boring at 56.5'																
CME 750 Drill Rig w/ Automatic Hammer 3.25 inch ID Hollow-Stem Augers																
DENSE Light Gray, near White & Black Fine to Medium SILTY SAND 548.60																
VERY DENSE Gray Coarse SAND & GRAVEL, TRACE CLAY & SILT 587.10																
COBBLE @ 56.0'																
End of Boring at 56.5'																
CME 750 Drill Rig w/ Automatic Hammer 3.25 inch ID Hollow-Stem Augers																

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1

ROUTE SA 7 DESCRIPTION Bridge Replacement, 5th Ave. over Silver Creek, Melrose Park, Illinois
 SECT. 3222-15D STRUCT. NO. 016-0691 DRILLED BY ISC/54.432
 COUNTY Cook LOCATION NW Corner Bridge S. 2 TWP. 39N RING. 12E

Boring No.	Station	Offset	Surface Elev.	D	B	L	O	Qu	W	Surface Water Elev.	D	B	L	O	Qu	W
101	36+75	18.00ft LT	623.50 ft	H	S			tsf	%	611.6	H	S		tsf	%	
5" Asphaltic Concrete 623.10																
13" P. C. Concrete 622.00																
FILL - Crushed Limestone, damp A-1-a 613.50																
FILL - Dark brown and gray CLAY, moist to very moist A-6 610.50																
Medium stiff gray and dark gray CLAY, moist to very moist A-7-6 608.00																
Very stiff brown and gray CLAY, trace gravel, moist A-6 605.50																
Hard gray CLAY, occasional sand seams, trace gravel, moist A-6 603.00																
Hard gray CLAY LOAM, numerous silt and sand seams, little gravel, damp A-4 600.50																
Very dense gray clayey SILT, trace gravel, damp -4 598.50																

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

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Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2
Date Started _____
Date Completed _____

ROUTE _____ DESCRIPTION Bridge Replacement, 5th Ave. over Silver Creek, Melrose Park, Illinois
SECT. _____ STRUCT. NO. 016-0691 DRILLED BY TSC/54.432
COUNTY Cook LOCATION NE Corner Bridge S. 2, TWP. 39N, RNG. 12E

Boring No.	Station	Offset	Surface Elev.	D	B	L	W	Qu	W	Surface Water Elev.	D	B	L	W	Qu	W
102	36+75	10.00ft RT	623.80 ft	H	S	O	T	tsf	%	611.6	H	S	O	T	tsf	%
6" Asphaltic Concrete	623.30															
20" P. C. Concrete	621.60															
FILL - Crushed Limestone, damp																
A-1-a																
ILL - Brown CLAY, moist	615.80															
A-6	614.30															
P. C. Concrete	613.30															
FILL - Brown CLAY, moist																
A-6	610.80															
Stiff brown and gray CLAY, moist																
A-7-6	608.30															
Very stiff gray CLAY, trace gravel, moist																
A-6	605.80															
Hard gray CLAY, occasional silt seams, trace gravel, moist																
A-6	603.30															
Hard gray CLAY LOAM, occasional silt and sand seams, trace gravel, moist																
A-4/A-6	600.80															
Dense gray clayey SILT, moist																
-4	598.80															

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2
Date Started _____
Date Completed _____

STRUCTURE NO. 016-0691
ROUTE _____
SECTION _____
COUNTY Cook

Boring No.	Station	Offset	Elevation	D	B	L	W	Qu	W
102	36+75	10.00ft RT	573.80 ft	H	S	O	T	tsf	%
Very dense gray medium to fine SAND, moist									
A-3	571.80								
Very dense gray silty SAND, trace gravel, moist									
A-1-b	568.80								
Hard gray CLAY, little gravel, damp									
A-6	560.30								
Probable Weathered Dolomite Rock Surface or Boulder Zone - Hard Drilling	558.80								
End of Boring at 65.0'									
Gus Pech GP-750 Truck Rig (#217) Rope and Cathead Hammer									
Wash Drill below 15.0'									

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1
Date Started _____
Date Completed _____

ROUTE _____ DESCRIPTION Bridge Replacement, 5th Ave. over Silver Creek, Melrose Park, Illinois
SECT. _____ STRUCT. NO. 016-0691 DRILLED BY TSC/54.432
COUNTY Cook LOCATION SE Corner Bridge S. 2, TWP. 39N, RNG. 12E

Boring No.	Station	Offset	Surface Elev.	D	B	L	W	Qu	W	Surface Water Elev.	D	B	L	W	Qu	W
103	36+32	11.00ft RT	623.80 ft	H	S	O	T	tsf	%	611.6	H	S	O	T	tsf	%
6" Asphaltic Concrete	623.30															
14" P. C. Concrete	622.10															
FILL - Crushed Limestone, damp																
A-1-a																
Stiff brown and gray CLAY, trace gravel, moist																
A-6	613.80															
Hard brown CLAY, trace gravel, moist																
A-6/A-7-6	608.30															
Very stiff gray CLAY, trace gravel, moist																
A-6	603.30															
Hard gray SILTY LOAM, trace gravel, moist																
A-4/A-6	600.80															
Hard gray CLAY, trace gravel, damp																
A-6	598.80															

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

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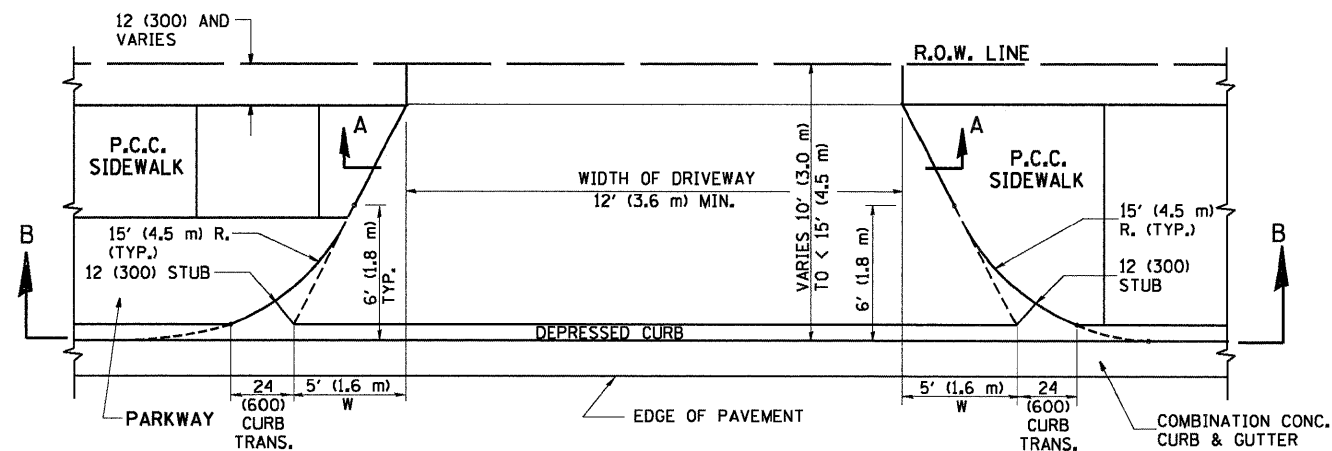


USER NAME = rdnaley	DESIGNED BWS	REVISED -
PLOT SCALE = 0.1" = 1' / in.	CHECKED DL	REVISED -
PLOT DATE = 10/25/2011	DRAWN RD	REVISED -
	CHECKED BWS	REVISED -

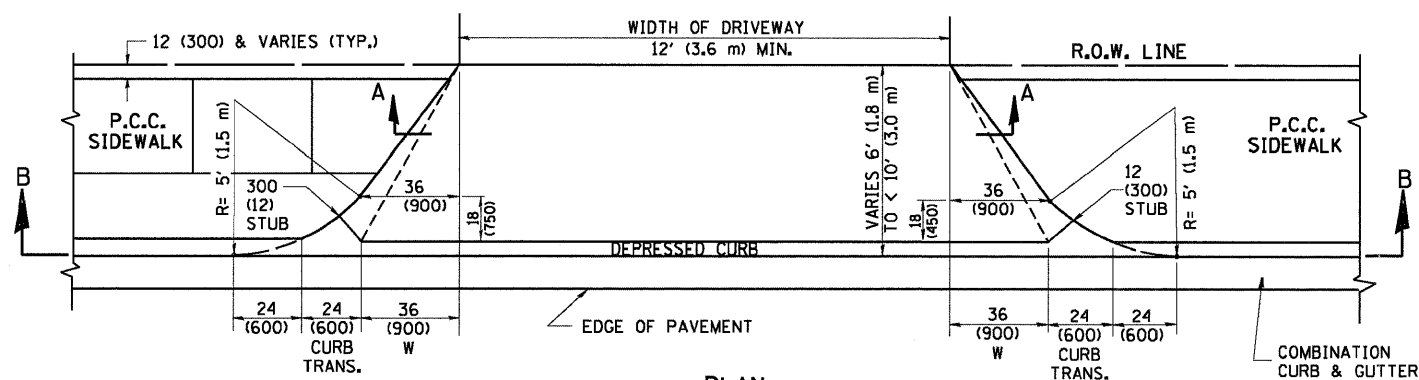
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG II
STRUCTURE NO. 016-2818**
SHEET NO. S-17 OF S-17 SHEETS

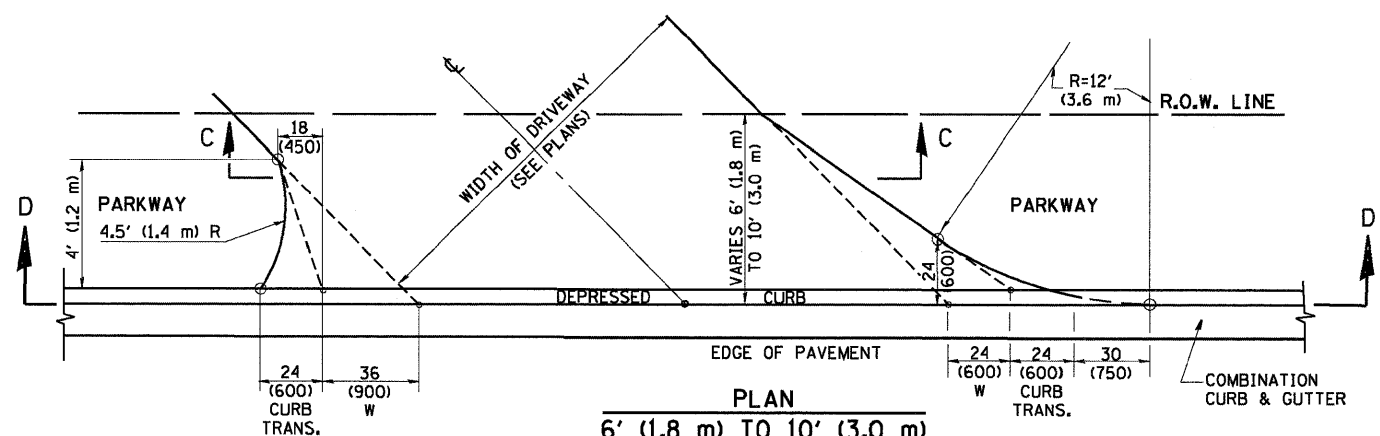
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	42
CONTRACT NO. 62116			ILLINOIS FED. AID PROJECT	



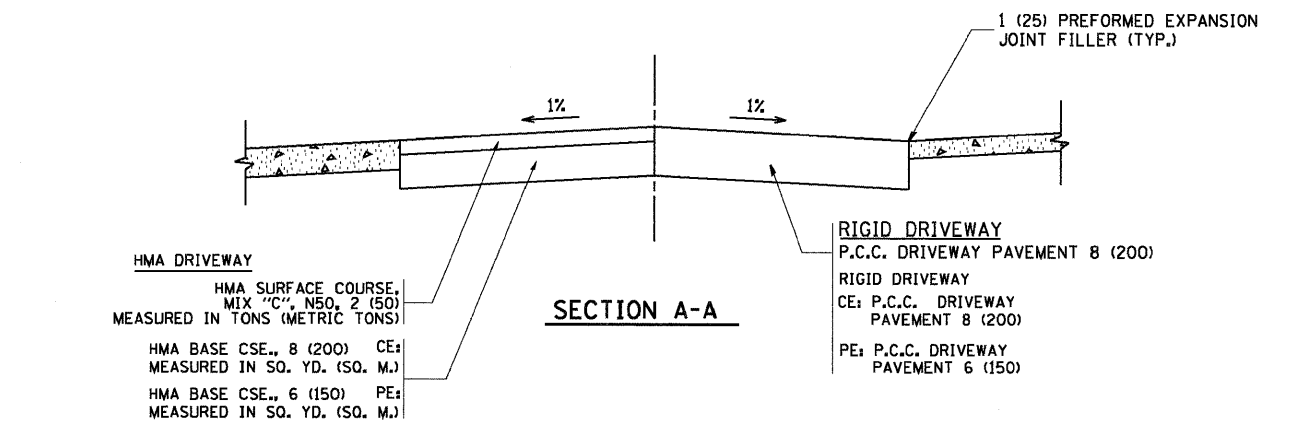
PLAN
10' (3.0 m) TO < 15' (4.5 m)



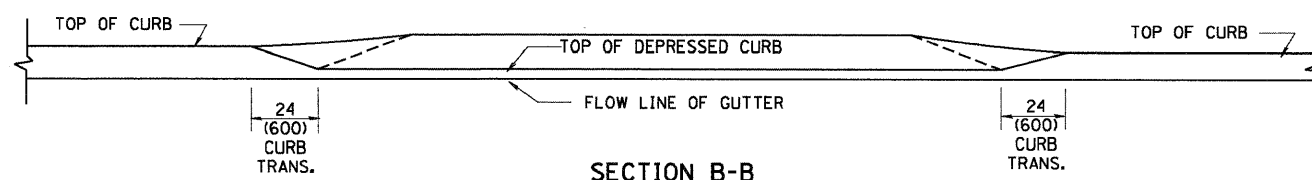
PLAN
6' (1.8 m) TO < 10' (3.0 m)



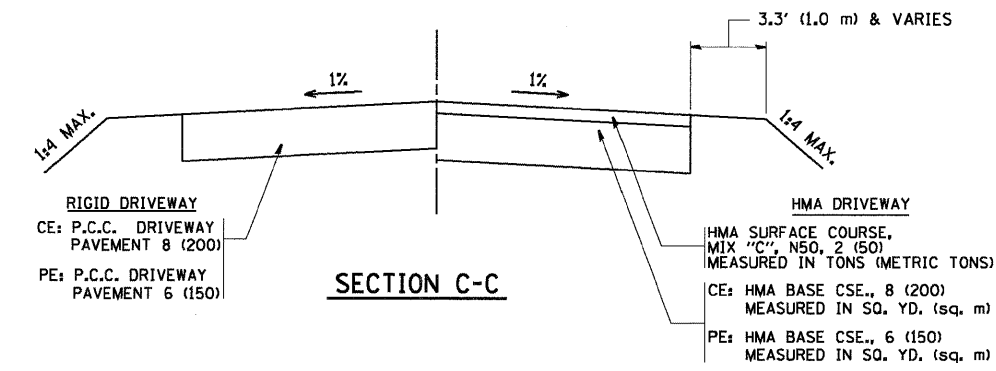
PLAN
6' (1.8 m) TO 10' (3.0 m)



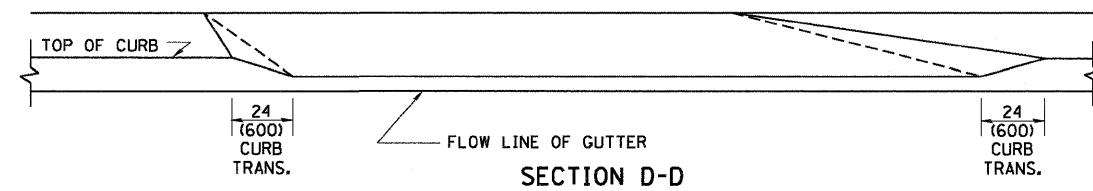
SECTION A-A



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 =	USER NAME = gegljanobt
W:\distatd\22x34\bd02.dgn	

PLOT SCALE = 5/8" @ 1" = 10'
PLOT DATE = 1/4/2008

DESIGNED - R. SHAH
DRAWN -
CHECKED -
DATE - 11-06-95

REVISED - T. HOLTZ 04-08-97
REVISED - M. GOMEZ 04-06-01
REVISED - P. LOFLEUR 04-15-03
REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

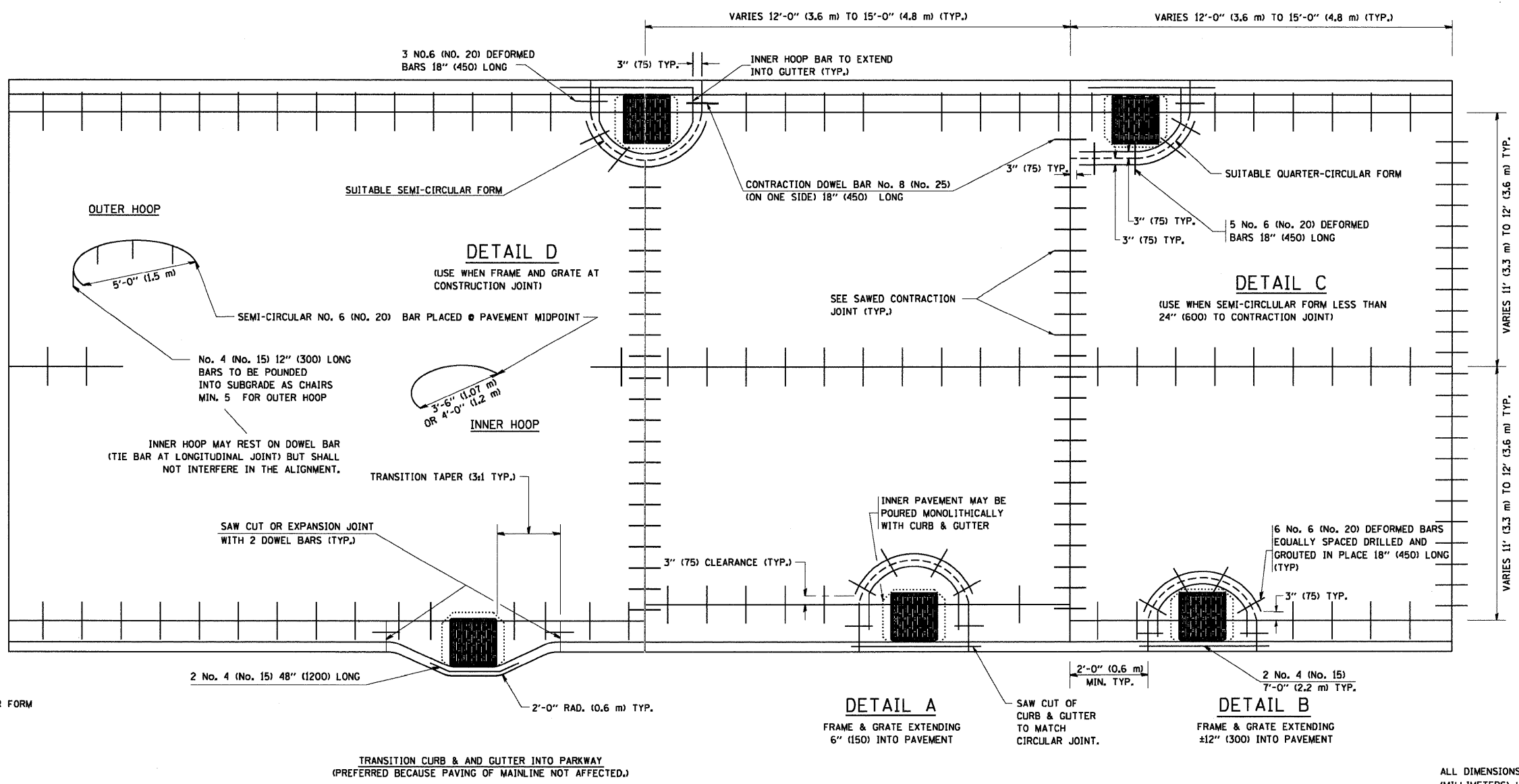
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	43
BD400-02 (BD-02)			CONTRACT NO. 62116	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

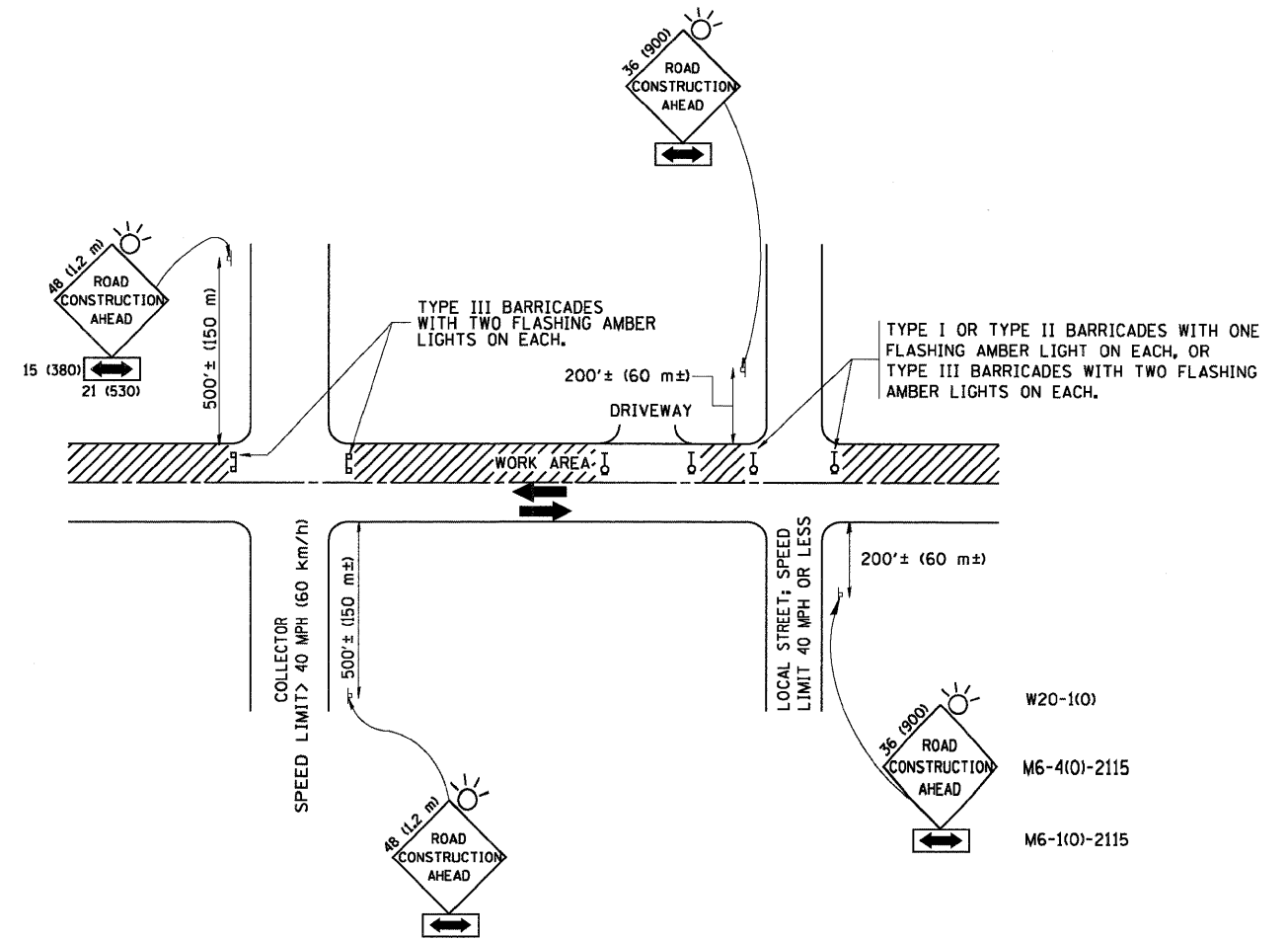
DESIGNER NOTE:
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"

- NOTES:**
1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
 2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
 3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
 4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
 5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
 6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
 7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
 8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
 9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



FILE NAME = W:\diststd\22x34\bd48.dgn	USER NAME = goglianobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER			F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 44
	PLOT SCALE = 50.0000' / IN.	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD-48		CONTRACT NO. 62116	
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02									

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED



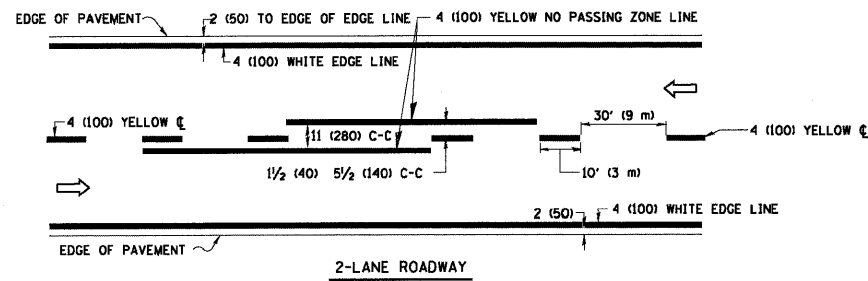
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

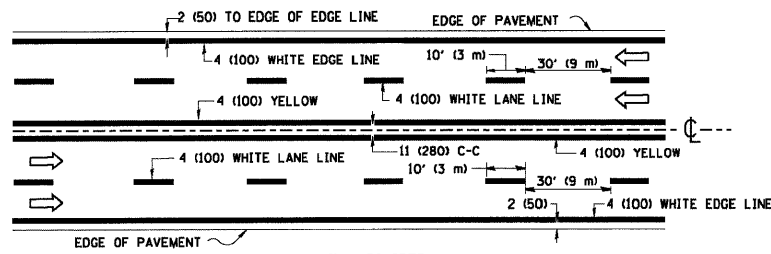
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

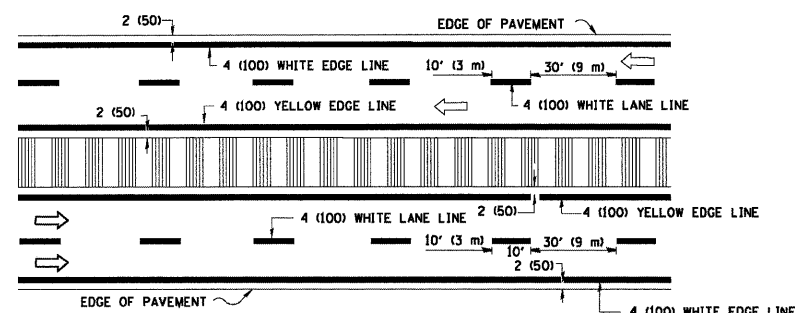
FILE NAME = W:\dists\d\22x34\td10.dgn	USER NAME = geglianabt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			F.A.J. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 45
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - A. HOUSEH 03-06-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-10		CONTRACT NO.	62116
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - A. HOUSEH 10-15-96		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00									



2-LANE ROADWAY



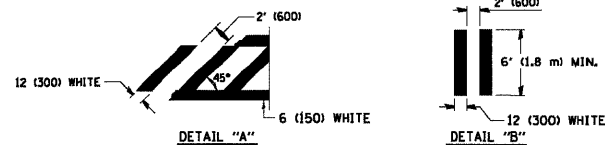
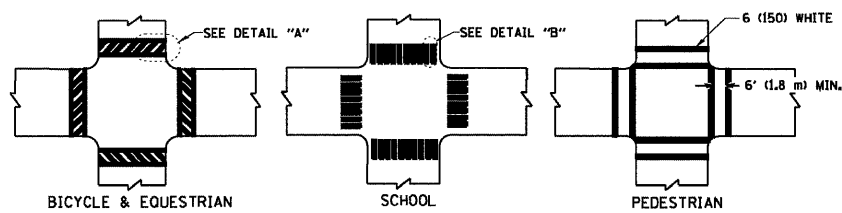
MULTI-LANE UNDIVIDED



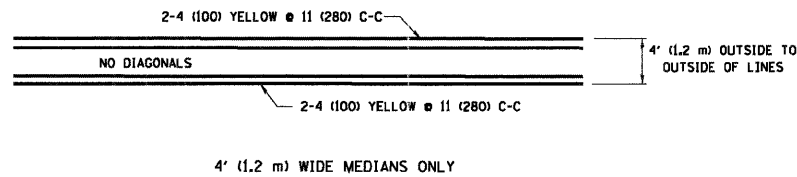
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

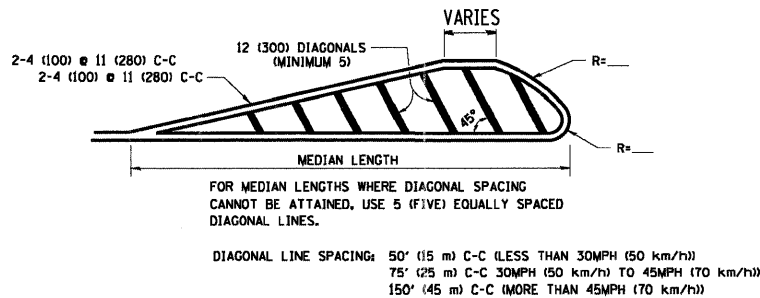
TYPICAL LANE AND EDGE LINE MARKING



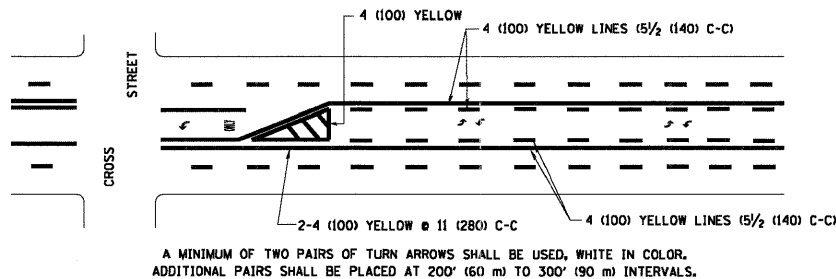
TYPICAL CROSSWALK MARKING



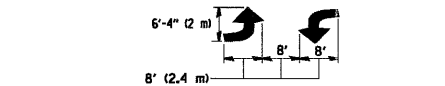
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

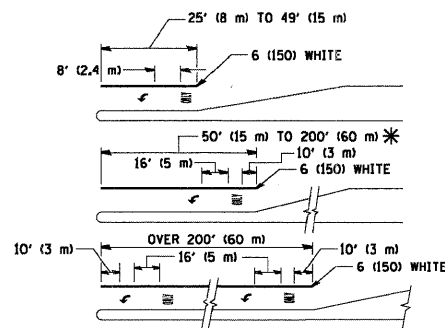


TYPICAL PAINTED MEDIAN MARKING



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL LEFT (OR RIGHT) TURN LANE

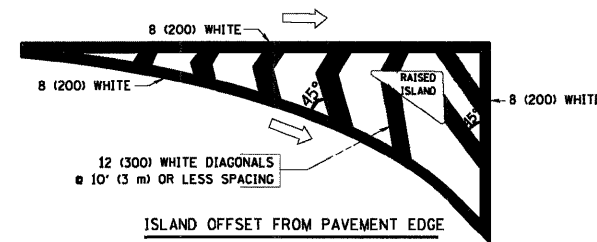


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

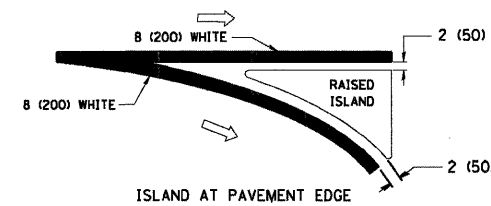
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



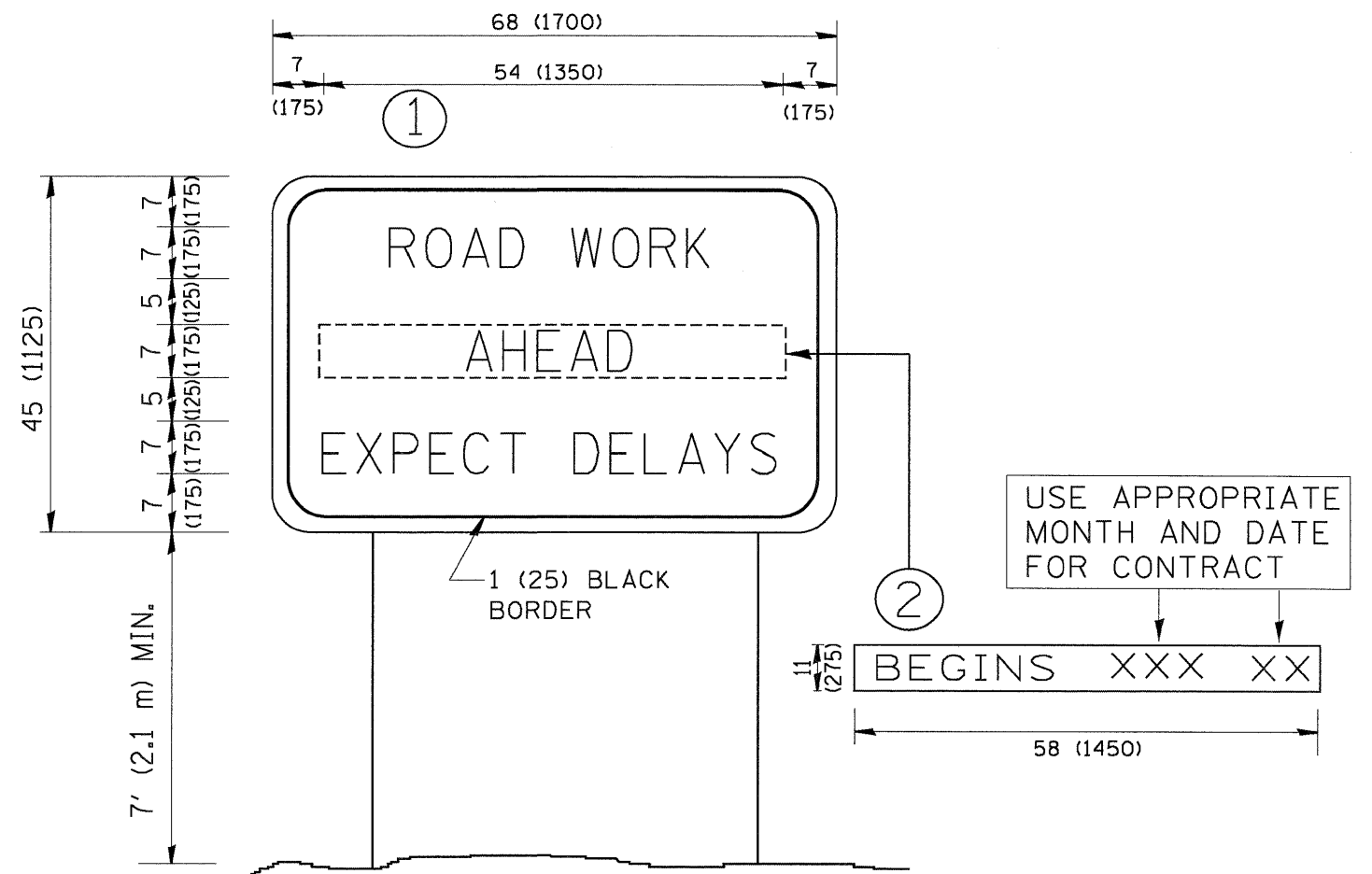
ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
TWO WAY LEFT TURN MARKING	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
CROSSWALK LINES (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
CROSSWALK LINES (LONGITUDINAL BARS (SCHOOL))	12 (300) @ 90°	SOLID	WHITE	2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
PAINTED MEDIANS	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS			
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.



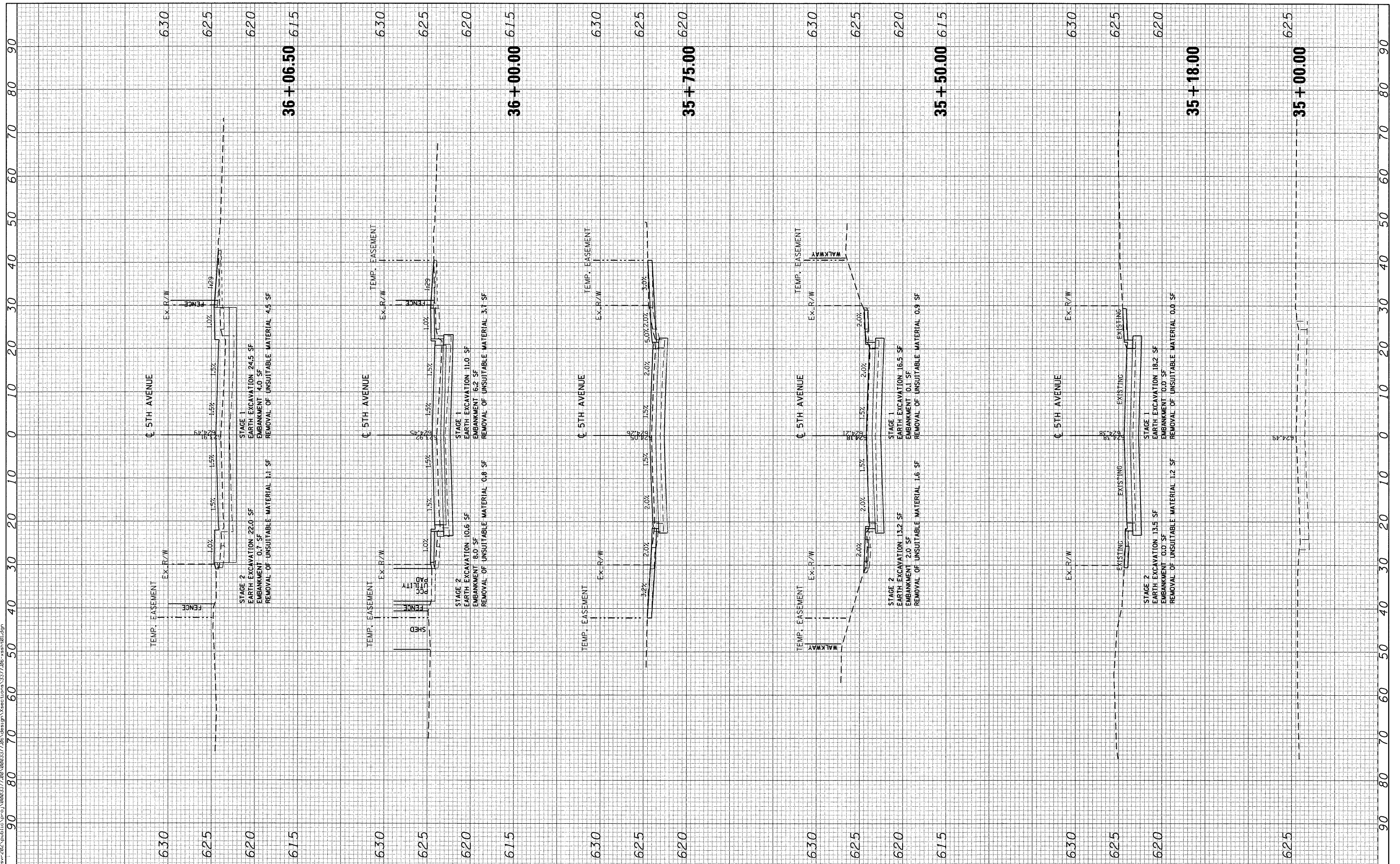
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\data\td\22x34\to22.dgn	USER NAME = geglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.J. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 48
	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22	CONTRACT NO.	62116	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 01-31-07									

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Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wlancaster	DESIGNED - WBL	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

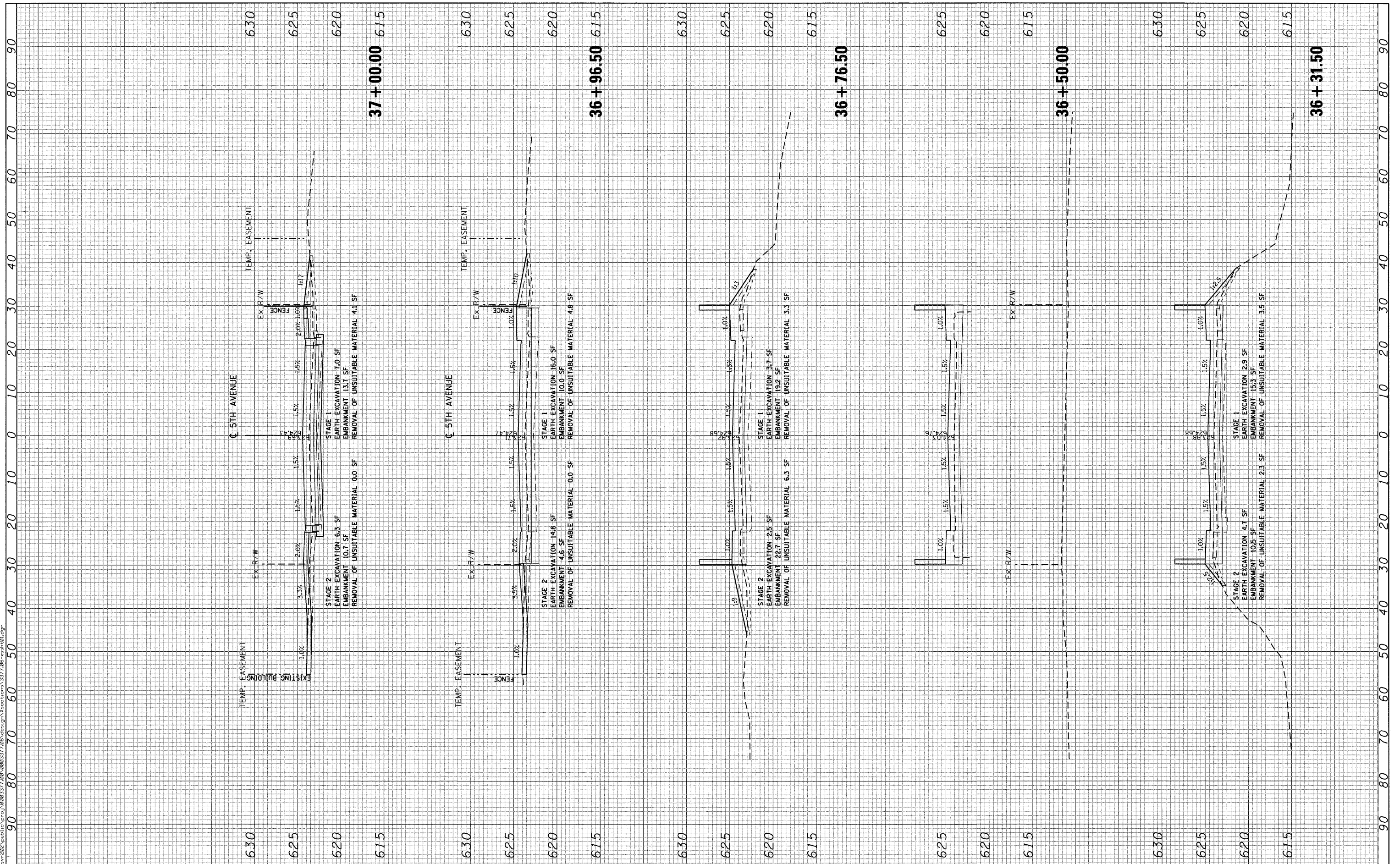
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 2742 5TH AVENUE
 OVER SILVER CREEK
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 35+00.00 TO STA. 36+06.50

F.A.U. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 49
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62116	

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 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wlanaster	DESIGNED - WBL	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

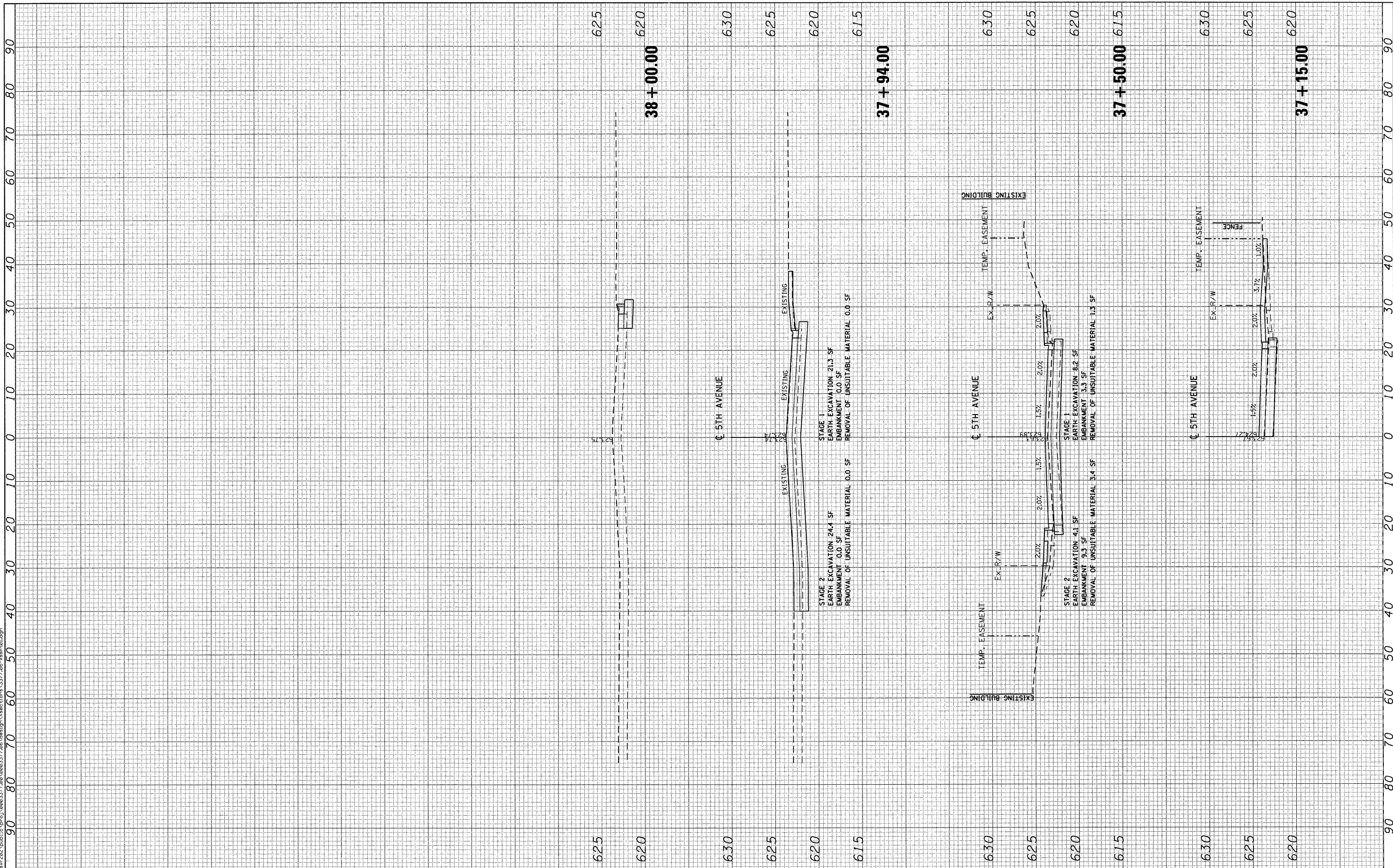
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 2742/5TH AVENUE
 OVER SILVER CREEK
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 36+31.50 TO STA. 37+00.00

F.A.I. RTE. 2742	SECTION 3222-W-BR	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 50
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62116	

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 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wlancaester	DESIGNED - WBL	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 10/26/2011	CHECKED - MJL	REVISED -
	DATE - 10/17/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 2742 5TH AVENUE
 OVER SILVER CREEK
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 37+15.00 TO STA. 38+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2742	3222-W-BR	COOK	51	51
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62116				