

CONSULTANT ENGINEER: DUANE J. O'LAUGHLIN, P.E. CIORBA GROUP, INC.
FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E. 847-705-4021, SCHAUMBURG

INDEX OF SHEETS 06-13-14 LETTING ITEM 046

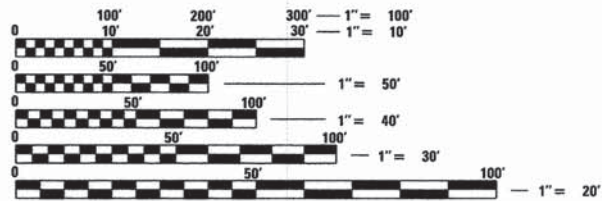
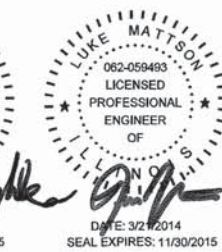
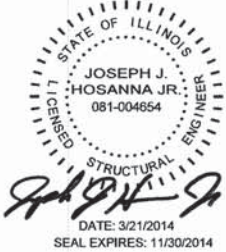
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DISTRICT 1 DETAILS

TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN



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

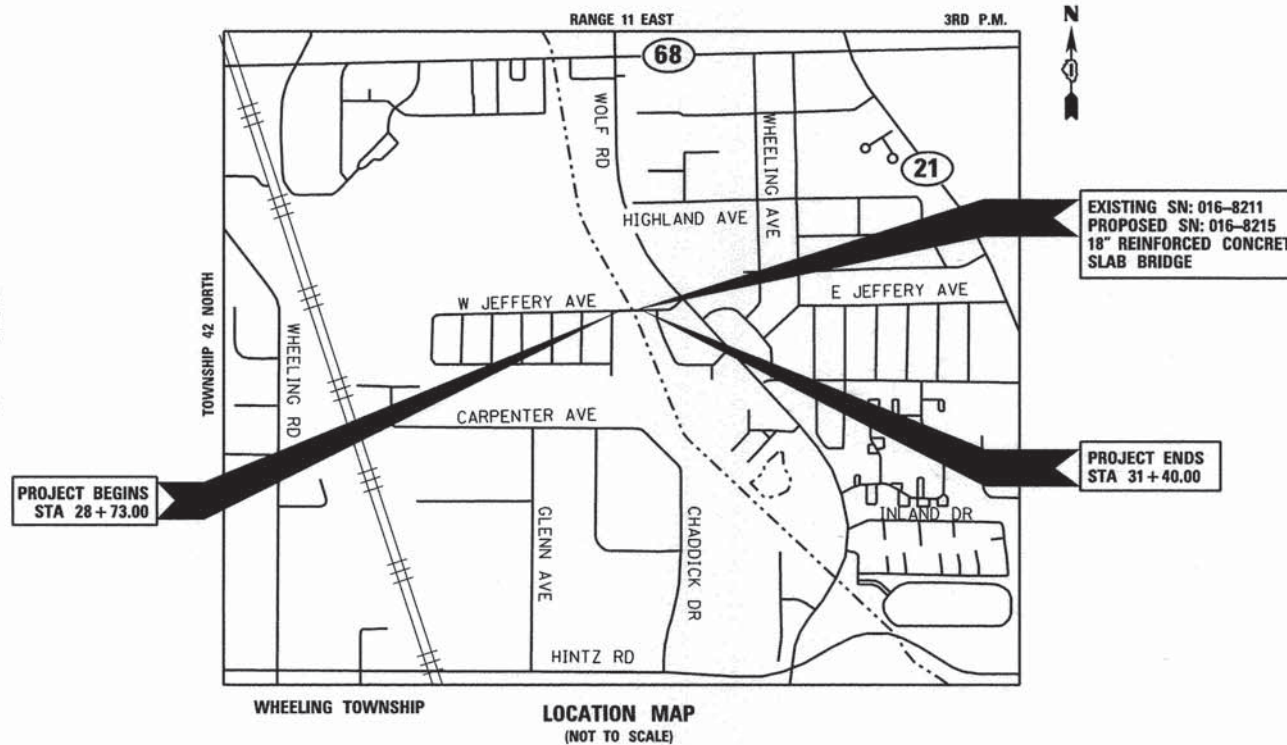
CONTRACT NO. 61A34

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR HIGHWAY
FEDERAL AID PROJECT**

WEST JEFFERY AVENUE
OVER BUFFALO CREEK
BRIDGE REPLACEMENT
SECTION 11-00076-00-BR
PROJECT NO. BROS-0031(036)
VILLAGE OF WHEELING
COOK COUNTY
C-91-025-12



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved: 3/21/14 DATE

John M. Lech
Village of Wheeling, Village Engineer

Passed: APRIL 7, 2014 DATE

Christopher Holt
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: April 7 2014 DATE

John F. ...
District 1 Engineer of Highways, Region 1 Engineer

PROJECT LENGTH

TOTAL GROSS AND NET LENGTH = 267.00 FEET (0.051 MILES)

W JEFFERY AVENUE DESIGN INFORMATION

DESIGN DESIGNATION - LOCAL ROAD
DESIGN SPEED - 30 MPH POSTED SPEED - 25 MPH

ADT

W JEFFERY AVENUE 2012 ADT = 275
2040 ADT = 360

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER
184-001016

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

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GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST I.D.O.T. STANDARD.
2. PROCUREMENT OF ALL NECESSARY PERMITS, AND PAYMENT THEREOF, SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE COST OF PERMITS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING A MINIMUM OF 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
 - THE ENGINEER
 - THE VILLAGE OF WHEELING - JON M. TACK, PE AT 847-499-9059
 - THE IDOT TRAFFIC CONTROL SUPERVISOR AT 847-705-4470
 - CDDOTH PROJECT ENGINEER (BUREAU OF OF CONSTRUCTION)
4. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET TO THE SATISFACTION OF THE ENGINEER.
5. WORK ON THIS PROJECT MAY BE IN PROGRESS AT THE SAME TIME AS WORK ON HINTZ ROAD THE CONTRACTOR MUST COORDINATE WITH THE HINTZ ROAD CONTRACTOR. THE PLACEMENT OF DETOUR SIGNS SHALL BE COORDINATED WITH THE CONSTRUCTION STAGES OF HINTZ ROAD.
6. DURING THE CONSTRUCTION OPERATION WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS, OR DRAINAGE STRUCTURES SO THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.
7. THE CONTRACTOR IS RESPONSIBLE TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.
8. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THE WORK AREAS DESIGNATED ON THE PLANS. ANY DAMAGE TO AREAS OUTSIDE OF THESE LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
9. PROPER DRAINAGE SHALL BE MAINTAINED IN THE IMPROVEMENT AREA DURING CONSTRUCTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED REMOVAL PAY ITEMS.
10. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE VILLAGE OF WHEELING ORDINANCES AND STANDARDS.
11. WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION AND ELEVATIONS OF UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO LOCATION AND ELEVATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDERS. THE ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION AND ELEVATION OF UTILITY FACILITIES, NOR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE ACTUAL LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION AND ELEVATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
12. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT 1-800-892-0123 AT LEAST 48 HOURS PRIOR TO START OF WORK.
13. EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. EACH CONTRACTOR AND SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO:
 - A) ALL EMPLOYEES ON THE SITE AND OTHER PERSONS AND ORGANIZATIONS THAT MAY BE AFFECTED.
 - B) ALL THE WORK AND THE MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE.


C) OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES, UTILITIES, AND UNDERGROUND FACILITIES NOT DESIGNATED FOR REMOVAL, RELOCATIONS, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.

D) EACH CONTRACTOR AND SUBCONTRACTOR SHALL DESIGNATE A RESPONSIBLE REPRESENTATIVE AT THE SITE WHOSE DUTY SHALL BE THE PREVENTION OF ACCIDENTS. THIS PERSON SHALL BE THE CONTRACTOR'S SUPERINTENDENT UNLESS OTHERWISE DESIGNATED IN WRITING BY THE CONTRACTOR TO THE ENGINEER.

14. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING INFORMATION AS SHOWN ON THE PLANS AND NOTIFY THE ENGINEER OF ALL DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORK. EXISTING UNDERGROUND UTILITIES SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION TO DETERMINE IF A PROBLEM OR CONFLICT EXISTS WITH THE PROPOSED IMPROVEMENTS AND TO AVOID DELAYS IN THE PROGRESS OF THE WORK ONCE THE WORK COMMENCES.
15. THE CONTRACTOR SHALL MAKE ALL NECESSARY FINAL ADJUSTMENTS TO EXISTING AND PROPOSED FRAMES, GRATES, LIDS, AND STRUCTURES TO MEET FINAL FINISHED GRADES.
16. THE CONTRACTOR SHALL BE REQUIRED TO MOVE ANY DECORATIVE ROCKS, PAVER BRICKS, OR LANDSCAPE ITEMS THAT INTERFERE WITH CONSTRUCTION. UPON COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL MOVE THESE ITEMS BACK TO THEIR ORIGINAL LOCATION AND IN THEIR ORIGINAL CONDITION. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEM THAT INTERFERED WITH THESE FEATURES.
17. THE CONTRACTOR SHALL MAINTAIN AND KEEP UP TO DATE A SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER WITHIN 30 DAYS OF COMPLETION OF THE PROJECT.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING PCC DRIVEWAY APRONS DURING CURB REMOVAL AND NEW CURB AND GUTTER INSTALLATION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING DRIVEWAY APRONS.
19. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PAVEMENT OPENINGS, OPEN HOLES, EQUIPMENT, AND RUBBLE. OPEN HOLES SHALL NOT BE ALLOWED DURING NON-WORKING HOURS. ALL OPEN HOLES SHALL BE BACKFILLED OR COVERED WITH STEEL PLATES AT THE END OF EACH WORKING DAY. THE CONTRACTOR SHALL MAINTAIN HIGH VISIBILITY OF ALL TEMPORARY HAZARDS TO PEDESTRIANS AND MOTORISTS. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED REMOVAL PAY ITEMS.
20. HORIZONTAL AND/OR VERTICAL SEPERATION BETWEEN STORM SEWERS, SANITARY SEWERS, AND WATER MAINS INCLUDING SERVICE LINES SHALL BE IN CONFORMANCE WITH SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS.
21. FRAMES, LIDS AND GRATES OF EXISTING CATCH BASINS, INLETS, MANHOLES AND VALVE VAULTS WHICH ARE TO BE ABANDONED OR REPLACED IN THIS PROJECT SHALL BE SALAVAGED AND REMAIN THE PROPERTY OF THE VILLAGE OF WHEELING. THE CONTRACTOR SHALL CONTACT JEFF WOLFGRAM AT 847-279-6928 AND DELIVER THESE CASTINGS TO 77 W. HINTZ RD.
22. EXISTING SEWERS OR WATER MAINS TO BE ABANDONED THAT INTERFERE WITH THE PROPOSED IMPROVMENTS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.
23. ALL FRAMES WITH CLOSED LIDS FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT, OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD STORM; ALL LIDS TO BE USED ON SANITARY SEWER STRUCTURES SHALL BEAR THE WORD SANITARY; ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURES SHALL BEAR THE WORD WATER; THIS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND CLOSED LIDS PROVIDED.
24. ALL FRAMES AND GRATES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED, TO THE SATISFACTION OF THE ENGINEER, BY THE CONTRACTOR AT HIS EXPENSE.
25. ONLY PRECAST ADJUSTMENT RINGS WILL BE ALLOWED FOR THE ADJUSTMENTS OF CATCH BASINS, MANHOLES, VALVE VAULTS AND INLETS. NO MORE THAN 3 RINGS FOR A TOTAL ADJUSTMENT OF 12 INCHES WILL BE ALLOWED.

26. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXCAVATION TRENCHES DURING THE INSTALLATION OF STORM SEWER, WATER MAIN, AND SANITARY SEWER TO INCLUDE ANY SHORING OR DEWATERING EQUIPMENT NECESSARY. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED WATER MAIN PAY ITEMS.
27. ALL TRENCHES FOR WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 20 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. ESPECIALLY CONCERNING BACK FILLING AS SOON AS PRACTICALLY POSSIBLE FOR PROTECTION.
28. ALL WATER MAIN FITTINGS, BENDS, TEES AND VALVES SHALL BE MECHANICAL JOINT WITH JOINT RESTRAINTS.
29. VALVES ON EXISTING WATER MAIN LINES SHALL BE OPERATED BY VILLAGE PERSONNEL ONLY. THE CONTRACTOR SHALL NOTIFY JEFF WOLFGRAM AT 77 W. HINTZ RD OR AT 847-279-6928. THE ENGINEER AND THE VILLAGE WATER DEPARTMENT SHALL BE NOTIFIED IN ADVANCE WHEN WATER MAIN ADJUSTMENTS WILL BE MADE SO THAT LOCAL RESIDENTS MAY BE NOTIFIED. THE VILLAGE WATER DEPARTMENT SHALL BE PRESENT FOR INSPECTION OF WATER MAIN ADJUSTMENTS.
30. THE CONTRACTOR SHALL ASSUME FULL MAINTENANCE OF ALL EXISTING VILLAGE OF WHEELING OWNED UTILITIES AS SOON AS THE CONTRACTOR BEGINS ANY PHYSICAL WORK ON THE CONTRACT OR ANY PORTION THEREOF. MAINTENANCE SHALL INCLUDE ANY PART WITHIN THE RIGHT-OF-WAY THAT FALLS WITHIN THE PROJECT LIMITS AND UTILITIES OUTSIDE THE PROJECT LIMITS UP TO THE NEAREST STRUCTURE. THE CONTRACTOR SHALL PROVIDE IMMEDIATE CORRECTIVE ACTION WHEN ANY PART OF THE SYSTEM FAILS TO FUNCTION PROPERLY. THE CONTRACTOR SHALL PROVIDE THE DIRECTOR OF PUBLIC WORKS WITH A 24 HOUR TELEPHONE NUMBER FOR EMERGENCY CALLS. THIS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE MOBILIZATION.
31. CONTRACTOR SHALL PROVIDE AN IN-STREAM WORK PLAN FOR REVIEW BY THE RESIDENT ENGINEER AND WRITTEN APPROVAL BY THE ARMY CORPS PRIOR TO STARTING ANY IN-STREAM WORK.
32. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS AND DOCUMENTS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION.
33. THE ALLOWABLE WORK HOURS FOR THE PROJECT WILL BE MONDAY THROUGH SATURDAY FROM 7 AM TO 6 PM.
34. CONSTRUCTION VIBRATIONS: VIBRATION PRODUCING ACTIVITIES (SUCH AS DEMOLITION, SHEET PILE DRIVING, VIBRATORY COMPACTING, PAVEMENT BREAKING OR OPERATION OF HEAVY CONSTRUCTION EQUIPMENT) WILL BE REQUIRED FOR CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR IS ADVISED THAT STRUCTURES ARE LOCATED CLOSE TO THE PROPOSED WORK AND THAT CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED SO AS TO PRECLUDE DAMAGE TO THESE STRUCTURES AND UNDUE ANNOYANCE TO OCCUPANTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED BY HIS ACTIVITIES. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY SOIL RETENTION SYSTEM.

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	Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60658 Tel. 773.775.4009 Fax 773.775.4014	USER NAME = ntumbov DESIGNED - DRAWN - CHECKED - DATE - 3/24/2014	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT GENERAL NOTES	F.A. R.T.E. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 2	CONTRACT NO. 61A34 [ILLINOIS] FED. AID PROJECT
	SCALE: SHEET NO. OF SHEETS STA. TO STA.										

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY 0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	18
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	17
• 20101200	TREE ROOT PRUNING	EACH	1
20200100	EARTH EXCAVATION	CU YD	278
20800150	TRENCH BACKFILL	CU YD	215
• 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	229
• 25000110	SEEDING, CLASS 1A	ACRE	0.1
• 25000310	SEEDING, CLASS 4	ACRE	0.1
• 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	8
• 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	8
• 25100630	EROSION CONTROL BLANKET	SO YD	439
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10
28000400	PERIMETER EROSION BARRIER	FOOT	446
28000510	INLET FILTERS	EACH	8

• DENOTES SPECIALITY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A34	

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY 0011
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SO YD	90
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	574
35101598	AGGREGATE BASE COURSE, TYPE B 3"	SO YD	149
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SO YD	131
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SO YD	446
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SO YD	67
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	145
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1,171
44000100	PAVEMENT REMOVAL	SO YD	651
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	142
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	140
44000600	SIDEWALK REMOVAL	SO FT	1,366
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
50102400	CONCRETE REMOVAL	CU YD	67.3

• DENOTES SPECIALITY ITEM

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PLOT DATE = 3/24/2014	DATE - 3/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	4
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY 0011
50200100	STRUCTURE EXCAVATION	CU YD	242
50300225	CONCRETE STRUCTURES	CU YD	80.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	199.7
50300260	BRIDGE DECK GROOVING	SO YD	238
50300300	PROTECTIVE COAT	SO YD	376
50800105	REINFORCEMENT BARS	POUND	7,850
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	64,010
51500100	NAME PLATES	EACH	1
51603000	DRILLED SHAFT IN SOIL	CU YD	53.7
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	24
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	141
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	72
55100300	STORM SEWER REMOVAL 8"	FOOT	63
55100400	STORM SEWER REMOVAL 10"	FOOT	93

• DENOTES SPECIALITY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A34	

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY 0011
55100500	STORM SEWER REMOVAL 12"	FOOT	49
* 56100020	DUCTILE IRON WATER MAIN TEE, 8" X 8"	EACH	1
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	109
* 56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	10
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	34
60500040	REMOVING MANHOLES	EACH	1
60500050	REMOVING CATCH BASINS	EACH	2
60500060	REMOVING INLETS	EACH	3
* 66400205	CHAIN LINK FENCE, 5'	FOOT	40
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
* A2000118	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	2
X0322584	REVTMENT MAT REMOVAL	SO YD	90
* X0324932	DUCTILE IRON WATER MAIN 8" IN STEEL CASING	FOOT	75

* DENOTES SPECIALITY ITEM

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PLOT DATE = 4/2/2014	DATE = 4/2/2014	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	6
CONTRACT NO. 61A34			ILLINOIS FED. AID PROJECT	

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY 0011
* X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	2
* X0325950	GATE VALVE 8" WITH VAULT, 5' DIAMETER	EACH	2
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	6
* X5610012	CAP EXISTING WATER MAIN	EACH	3
* X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	160
* X5610708	WATER MAIN REMOVAL, 8"	FOOT	44
* X5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	2
* X5640175	FIRE HYDRANT COMPLETE	EACH	1
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	150
X6022402	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	1
X6022805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	2
X6023204	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	2
X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	380
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* DENOTES SPECIALITY ITEM

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PLOT SCALE = 1.0000' / in.
PLOT DATE = 3/24/2014

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DATE - 3/24/2014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	7
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY 0011
XX003338	TEST HOLE	EACH	2
Z0004552	APPROACH SLAB REMOVAL	SO YD	50
* Z0007124	STEEL RAILING (SPECIAL)	FOOT	85
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0022800	FENCE REMOVAL	FOOT	80
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	54.6
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	108
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	1218
Δ Z0076600	TRAINEES	HOUR	500
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500
* Z0077900	WOOD POST AND RAIL FENCE	FOOT	40
* XX008956	STEEL CASING PIPE, BORED AND JACKED, 20"	FOOT	75

• DENOTES SPECIALITY ITEM

Δ 0042

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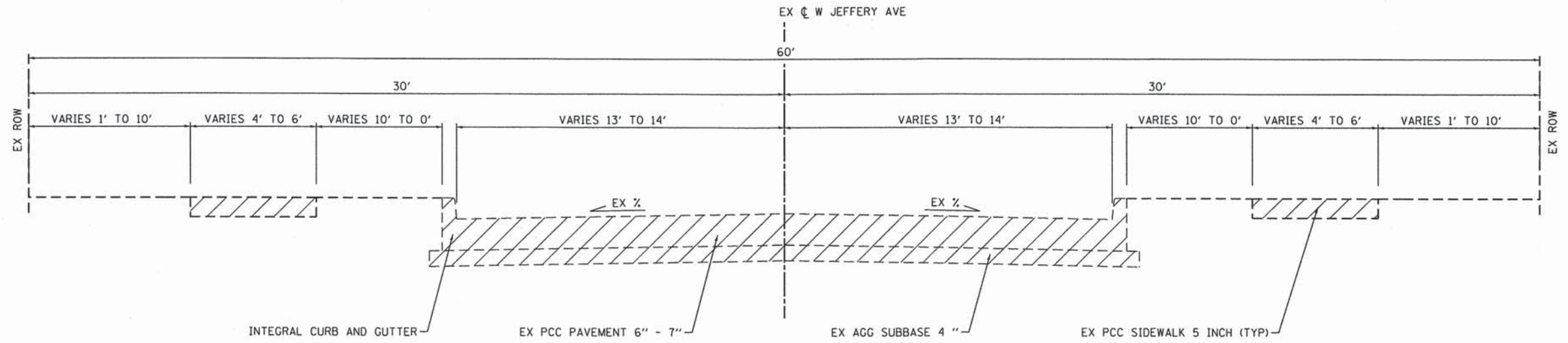
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

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

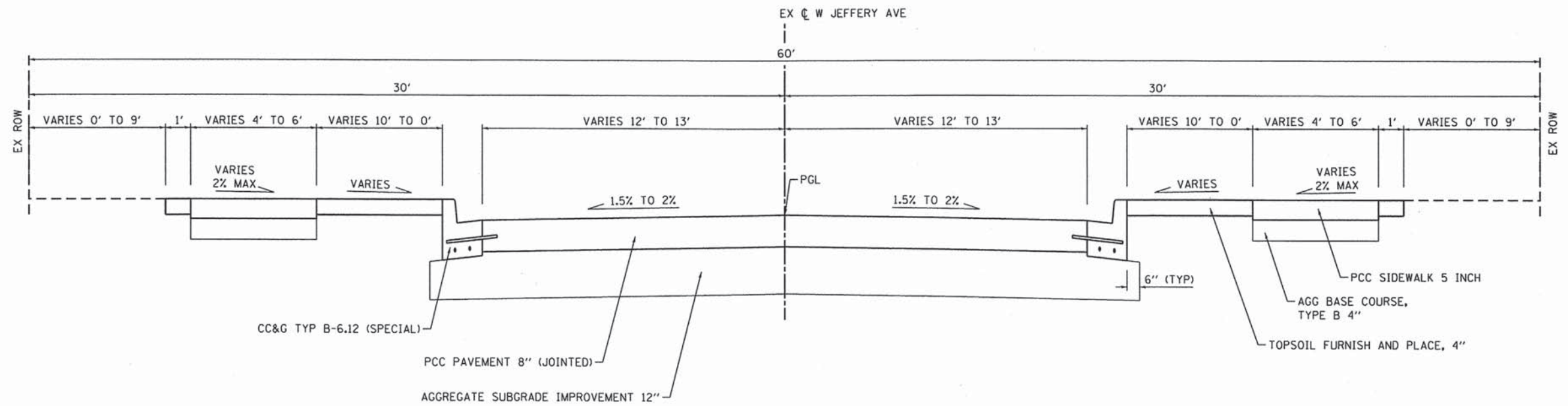
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	8
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61A34



EXISTING TYPICAL SECTION

STA 28+73.00 TO STA 29+74.44
 STA 30+25.39 TO STA 31+40.00



PROPOSED TYPICAL SECTION

STA 28+73.00 TO STA 29+58.71
 STA 29+58.91 TO STA 29+78.91 (APPROACH SLAB - SEE BRIDGE PLANS)
 STA 29+78.91 TO STA 30+21.09 (BRIDGE OMISSION)
 STA 30+21.09 TO STA 30+41.09 (APPROACH SLAB - SEE BRIDGE PLANS)
 STA 30+41.09 TO STA 31+40.00

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PLOT DATE = 3/24/2014	CHECKED -	REVISED -
	DATE = 3/24/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 TYPICAL SECTIONS**

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

F.A. RTE. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 9
CONTRACT NO. 61A34				ILLINOIS FED. AID PROJECT

STATION	LENGTH	CUT	FILL	TOPSOIL	EARTH EXCAVATION	EARTH EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	(FT)	(SF)	(SF)	(SF)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
28+73.00		42.1	0.0	1.0				
29+00.00	27.00	39.1	0.0	3.7	40.6	30.5	0.0	30.5
29+11.60	11.60	39.5	0.1	4.0	16.9	12.7	0.0	12.6
29+25.00	13.40	30.8	1.2	7.3	17.4	13.1	0.3	12.8
29+50.00	25.00	29.8	4.0	6.6	28.1	21.0	2.4	18.6
29+65.00	15.00	23.4	4.0	4.2	14.8	11.1	2.2	8.9
29+75.00	10.00	18.1	0.0	0.0	7.7	5.8	0.7	5.0
29+87.00	12.00	0.0	0.0	0.0	4.0	3.0	0.0	3.0
BRIDGE OMISSION								
30+12.00		0.0	0.0	0.0				
30+25.00	13.00	17.3	0.0	0.0	4.2	3.1	0.0	3.1
30+31.00	6.00	25.1	2.8	4.5	4.7	3.5	0.3	3.2
30+50.00	19.00	29.2	4.1	4.3	19.1	14.3	2.4	11.9
30+81.00	31.00	41.3	0.0	3.7	40.5	30.4	2.4	28.0
31+00.00	19.00	30.6	0.0	7.4	25.3	19.0	0.0	19.0
31+14.00	14.00	39.2	0.0	3.6	18.1	13.6	0.0	13.6
31+40.00	26.00	35.3	0.1	3.2	35.9	26.9	0.0	26.9
			TOTAL		277.2	207.9	10.9	197.0
			ROUNDUP		278.0	208.0	11.0	198.0

PAVEMENT REMOVAL (44000100)				
LOCATION				SQ YD
STATION	STATION	WIDTH 1	WIDTH 2	
28+73.0	29+11.4	24.0	24.5	103.5
29+11.4	29+74.5	27.0	29.0	196.3
30+25.4	31+04.0	29.0	28.0	248.9
31+04.0	31+14.0	28.0	27.7	30.9
31+14.0	31+40.0	24.8	24.0	70.5
TOTAL				651

PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED) (42000301)				
LOCATION				SQ YD
STATION	STATION	WIDTH 1	WIDTH 2	
28+73.0	29+00.0	24.0		72.0
29+00.0	29+47.4	24.0	25.6	130.6
30+52.6	31+14.0	25.8	24.8	172.6
31+14.0	31+40.0	24.8	24.0	70.5
TOTAL				446

TREE REMOVAL (OVER 15 UNITS DIAMETER) (20100210)			
LOCATION			UNIT
STATION	OFFSET	L/R	
30+29	24.4	R	17
TOTAL			17

COMBINATION CURB AND GUTTER REMOVAL (44000500)			
LOCATION			FOOT
STATION	STATION	L/R	
28+63	29+12	R	49
28+73	29+12	L	39
31+14	31+40	L	26
31+14	31+40	R	26
TOTAL			140

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) (42001420)				
LOCATION				SQ YD
STATION	STATION	LENGTH	WIDTH	
29+47.4	29+53.4	17.0	15.9	33.0
30+46.6	30+52.6	17.0	16.0	33.2
TOTAL				67

TREE REMOVAL (6 TO 15 UNITS DIAMETER) (20100110)			
LOCATION			UNIT
STATION	OFFSET	L/R	
29+39	19.7	L	8
30+64	18.8	R	10
TOTAL			18

COMBINATION CURB AND GUTTER, TYPE B-6.12 (SPECIAL) (X6064200)			
LOCATION			FOOT
STATION	STATION	L/R	
28+63.0	29+65.0	R	102
30+47.0	31+40.0	R	93
28+73.0	29+53.0	L	80
30+35.0	31+40.0	L	105
TOTAL			380

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STORM SEWER SCHEDULE							550A0050	550A0070	550A0340	20800150	
PIPE NO	U/S STA	OFFSET	D/S STA	OFFSET	PIPE SLOPE (%)	DIAM. (IN)	STORM SEWERS, CLASS A, TYPE 1 12"	STORM SEWERS, CLASS A, TYPE 1 15"	STORM SEWERS, CLASS A, TYPE 2 12"	TRENCH BACKFILL	
							FOOT	FOOT	FOOT	CU YD	
JEFFERY AVE.											
1-1	31+21	10.8 LT	30+04	21.6 LT	1.00%	15		117		39.0	
1-2	31+21	13.9 RT	31+21	10.8 LT	1.00%	15		24		6.0	
2-1	29+40	25.9 LT	29+78	20.5 LT	2.00%	12			38	21.0	
2-2	29+09	11.2 LT	29+40	25.9 LT	2.00%	12			34	19.0	
2-3	29+09	13.4 RT	29+09	11.2 LT	2.00%	12	24			7.0	
FROM WATER MAIN SCHEDULE										88.0	
FROM REMOVAL SCHEDULE											35.0
TOTAL							24	141	72		215

DRAINAGE STRUCTURE SCHEDULE				INVERT ELEVATION				X6022402	X6022805	X6023204
STR NO	STA	OFFSET	RIM ELEV	N	S	E	W	MANHOLES, TYPE A, 4'-DIA, TYPE 1 FRAME, CLOSED LID, SPECIAL	CATCH BASINS, TYPE A, 4'-DIA, TYPE 1 FRAME, OPEN LID, SPECIAL	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID, SPECIAL
								EACH	EACH	EACH
JEFFERY AVE.										
1-1	31+21	13 LT	639.80		636.52		636.52		1	
1-2	31+21	13.7 RT	639.80	636.76						1
2-1	29+40	25.9 LT	640.90			635.96	635.96	1		
2-2	29+09	13.2 LT	640.27		636.64	636.64			1	
2-3	29+09	13.2 RT	640.27	637.12						1
TOTAL								1	2	2

EROSION CONTROL AND LANDSCAPING SCHEDULE	25000400	25000600	25000110	25000310	25100630	28000250	28000400	28000510	28500100	A2000118
	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SEEDING, CLASS 1A	SEEDING, CLASS 4	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET FILTERS	FABRIC FORMED CONCRETE REVETMENT MAT	TREE, ACERX FREEMANII (AUTUMN BLAZE FREEMAN MAPLE), 3" CALIPER, BALLED AND BURLAPPED
PROJECT 0020191.01										
JEFFERY AVE BRIDGE	POUND	POUND	ACRE	ACRE	SQ YD	POUND	FOOT	EACH	SQ YD	EACH
28+73 TO 31+40	8	8	0.1	0.1	439	10	446	8	90	2

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REMOVAL SCHEDULE				55100300	55100400	55100500	60500040	60500050	60500060	X0322584	X0325003	X5610708	20800150
U/S STA	OFFSET	D/S STA	OFFSET	STORM SEWER REMOVAL 8"	STORM SEWER REMOVAL 10"	STORM SEWER REMOVAL 12"	REMOVING MANHOLES	REMOVING CATCH BASINS	REMOVING INLETS	REVTMENT MAT REMOVAL	REMOVE EXISTING VALVE AND VAULT	WATER MAIN REMOVAL, 8"	TRENCH BACKFILL
				FOOT	FOOT	FOOT	EACH	EACH	EACH	SQ YD	EACH	FOOT	CU YD
JEFFERY AVE													
29+69	0 CL	31+32	0 CL							90			
29+23	16.5 LT						1						
29+24	12.3 RT	29+24	9.03 LT			22							8.5
29+24	11.1 LT							1					
29+24	12.6 LT	29+24	16.5 LT			4							
29+25	13.1 RT								1				
29+26	16.5 LT	29+78	20.5 LT		52								
29+42	22.2 LT										1		
30+37	18.7 RT										1		
30+33	18.5 RT	30+77	18.4 RT									44	
30+66	15.0 LT	30+04	21.6 LT	63									19.5
30+66	21.0 LT	30+66	15.0 LT		6								
30+66	22.0 LT								1				
31+01	11.4 LT	30+66	15.0 LT		35								
31+02	11.4 LT								1				
31+02	13.4 RT	31+02	8.86 LT			23							7
31+02	13.4 RT								1				
FROM WATER MAIN SCHEDULE													88
FROM STORM SEWER SCHEDULE													92
TOTAL				63	93	49	1	2	3	90	2	44	215

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WATER MAIN SCHEDULE				56100020	56109420	X0325950	X5610012	X5630708	X5640175	56103100	X0324932		X5610651	20800150	
STA 1	OFFSET 1	STA 2	OFFSET 2	DUCTILE IRON WATER MAIN TEE, 8" X 8"	DUCTILE IRON WATER MAIN FITTINGS 8" 45 DEGREE BEND	GATE VALVE 8" WITH VAULT, 5'-DIA.	CAP EXISTING WATER MAIN	CONNECTION TO EXISTING WATER MAIN, 8"	FIRE HYDRANT COMPLETE	DUCTILE IRON WATER MAIN 8"	DUCTILE IRON WATER MAIN 8", PUSHED IN STEEL CASING	STEEL CASING PIPE, BORED AND JACKED, 20"	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	TRENCH BACKFILL	
				EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	CU YD	
JEFFERY AVE.															
29+37	LT						1	1							
29+37	LT	30+33	RT										160		
29+41	LT				2										
29+42	RT				2										
29+49	19.3 RT	29+37	9.1 LT							40				27	
29+49	19.3 RT					1									
29+49	19.3 RT	29+71	20.0 RT							31				29	
29+62	RT(VERTICAL)				1										
29+69	RT(VERTICAL)				1										
29+71	20.0 RT	30+46	22.1 RT								75	75			
30+33	RT						1								
30+46	22.1 RT	30+68	22.7 RT							26				24	
30+48	RT(VERTICAL)				1										
30+54	RT(VERTICAL)				1										
30+59	27.39 RT								1						
30+68	22.78 RT					1									
30+68	22.78 RT	30+76	18.4 RT							12				8	
30+75	RT				2										
30+76	RT						1								
30+76	RT			1											
30+76	18.4 RT							1							
FROM STORM SEWER SCHEDULE														92	
FROM REMOVAL SCHEDULE															35
TOTAL				1	10	2	3	2	1	109	75	75	160	215	

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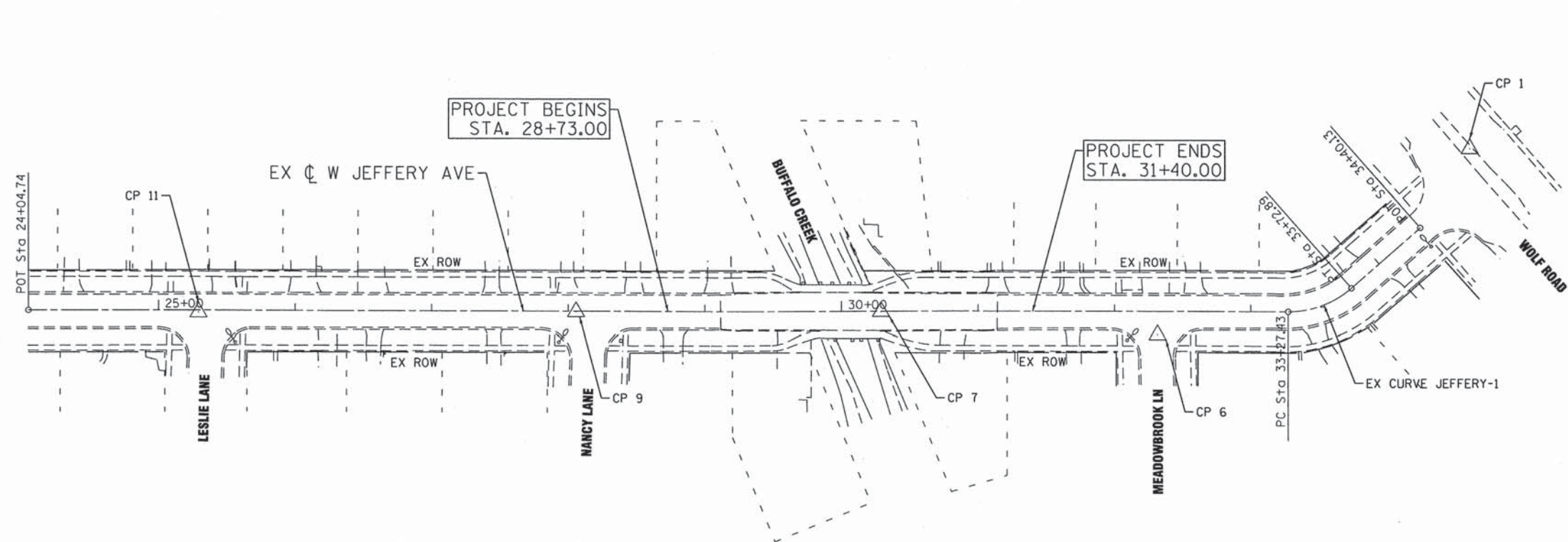
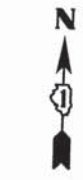
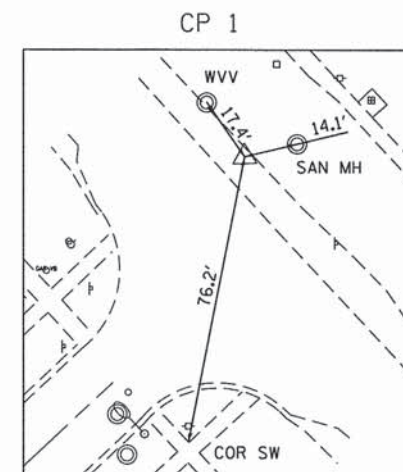
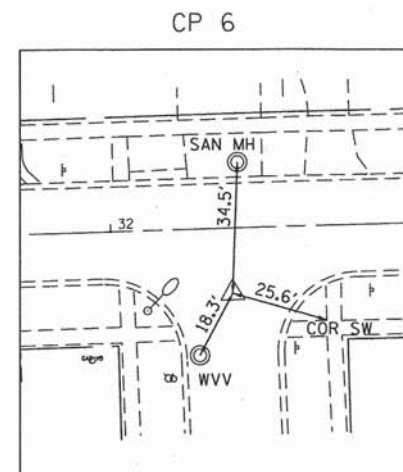
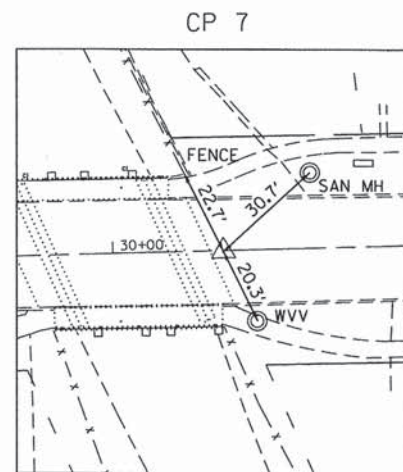
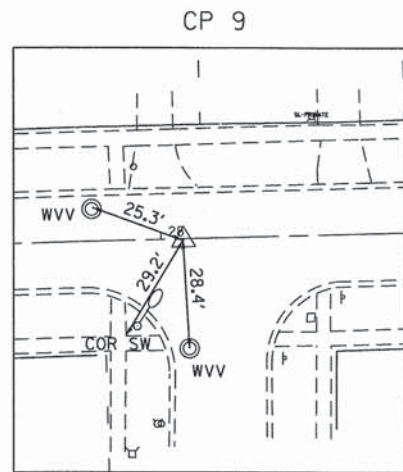
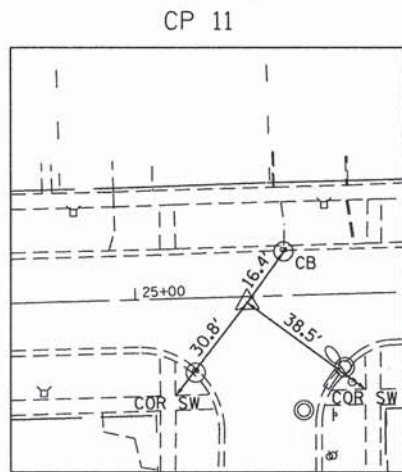
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PLOT DATE = 3/24/2014	DATE - 3/24/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
SCHEDULE OF QUANTITIES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	13
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

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



PROJECT COORDINATES

DESCRIPTION	STATION	NORTHING	EASTING
POT	24+04.74	1,991,388.09	1,097,105.04
PC	33+27.43	1,991,414.74	1,098,027.35
PT	33+72.89	1,991,484.71	1,098,073.15
POT	34+40.13	1,991,479.54	1,098,122.26

CURVE DATA

EXIST. CURVE JEFFERY-1
 PI STA. = 33+53.91
 $\Delta = 41^\circ 26' 27''$ (LT)
 $D = 91^\circ 10' 10''$
 $R = 70.00'$
 $T = 26.48'$
 $L = 45.45'$
 $E = 4.84'$
 P.C. STA. = 33+27.43
 P.T. STA. = 33+72.89

BENCHMARKS

	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM #5	-	-	642.18	SW TAG BOLT OF FHYD AT SW CORNER OF JEFFERY AVE AND MEADOWBROOK LN
BM #8	-	-	641.95	N TAG BOLT OF FHYD AT NORTH SIDE OF JEFFERY AVE AT NANCY LN

CONTROL POINTS

	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	1,991,538.67	1,098,156.87	641.22	CP RB WOLF
CP 2	1,991,599.47	1,098,258.64	639.80	CP SCHOOL YARD
CP 6	1,991,394.82	1,097,931.91	640.73	CP MEADOWBROOK
CP 7	1,991,405.86	1,097,728.97	641.02	CP 34E
CP 9	1,991,399.24	1,097,505.87	641.61	CP NANCY
CP 11	1,991,390.19	1,097,229.55	641.60	CP LESLIE

NOTE

CONTROL POINTS AND BENCHMARK DATA PROVIDED BY THE VILLAGE OF WHEELING

FILE NAME = N:\PROJECTS\2014\Design\Misc_Sheets\0228191.dgn

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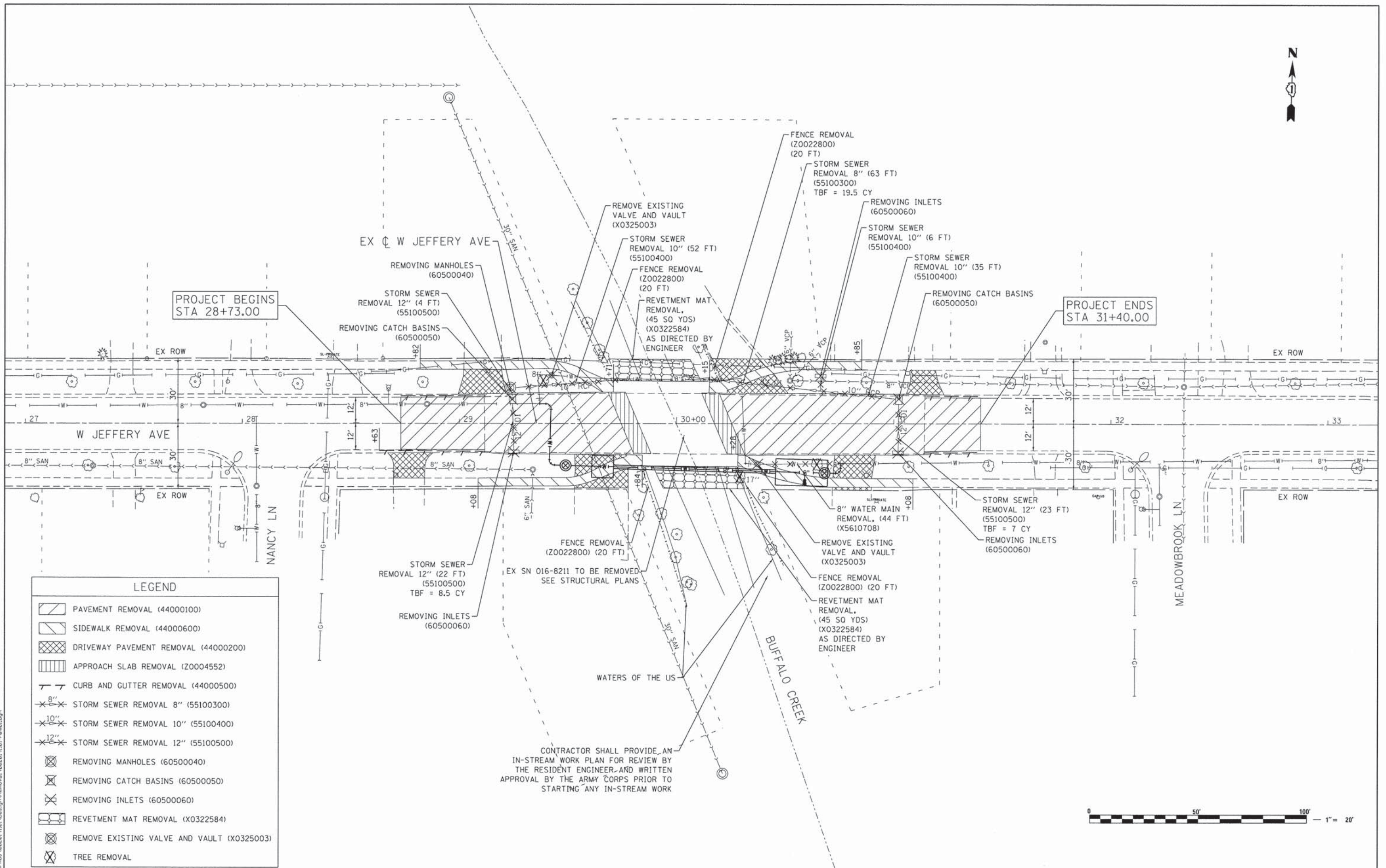
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PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2014	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 ALIGNMENT, TIES AND BENCHMARKS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	14
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



PROJECT BEGINS
STA 28+73.00

PROJECT ENDS
STA 31+40.00

LEGEND	
	PAVEMENT REMOVAL (44000100)
	SIDEWALK REMOVAL (44000600)
	DRIVEWAY PAVEMENT REMOVAL (44000200)
	APPROACH SLAB REMOVAL (Z0004552)
	CURB AND GUTTER REMOVAL (44000500)
	STORM SEWER REMOVAL 8" (55100300)
	STORM SEWER REMOVAL 10" (55100400)
	STORM SEWER REMOVAL 12" (55100500)
	REMOVING MANHOLES (60500040)
	REMOVING CATCH BASINS (60500050)
	REMOVING INLETS (60500060)
	REVTMENT MAT REMOVAL (X0322584)
	REMOVE EXISTING VALVE AND VAULT (X0325003)
	TREE REMOVAL



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Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

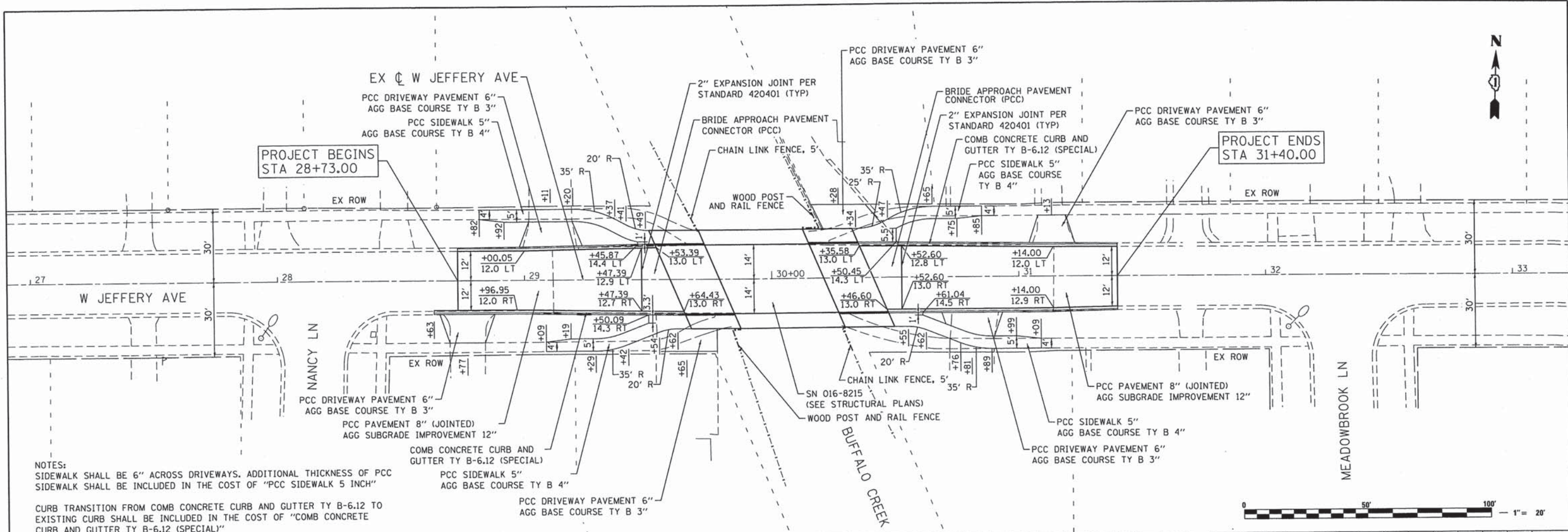
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

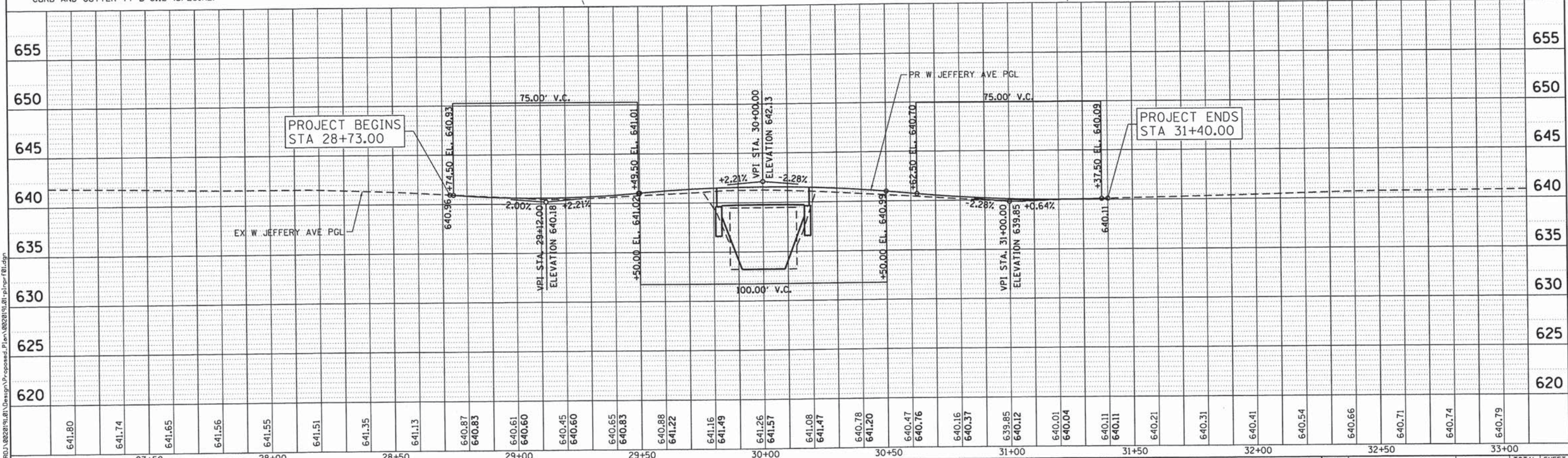
**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
REMOVAL PLAN**

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

F.A. RTE. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 15
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



NOTES:
 SIDEWALK SHALL BE 6" ACROSS DRIVEWAYS. ADDITIONAL THICKNESS OF PCC SIDEWALK SHALL BE INCLUDED IN THE COST OF "PCC SIDEWALK 5 INCH"
 CURB TRANSITION FROM COMB CONCRETE CURB AND GUTTER TY B-6.12 TO EXISTING CURB SHALL BE INCLUDED IN THE COST OF "COMB CONCRETE CURB AND GUTTER TY B-6.12 (SPECIAL)"



641.80	641.74	641.65	641.56	641.55	641.51	641.35	641.13	640.87	640.83	640.61	640.60	640.45	640.60	640.65	640.83	640.88	641.22	641.16	641.49	641.26	641.57	641.08	641.47	640.78	641.20	640.47	640.76	640.16	640.37	639.85	640.12	640.01	640.04	640.11	640.11	640.21	640.31	640.41	640.54	640.66	640.71	640.74	640.79
27+50		28+00			28+50			29+00			29+50			30+00			30+50			31+00			31+50			32+00			32+50			33+00											

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	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 PLAN AND PROFILE

F.A. RTE. N/A	SECTION 11-0076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 16
CONTRACT NO. 61A34			ILLINOIS FED. AID PROJECT	

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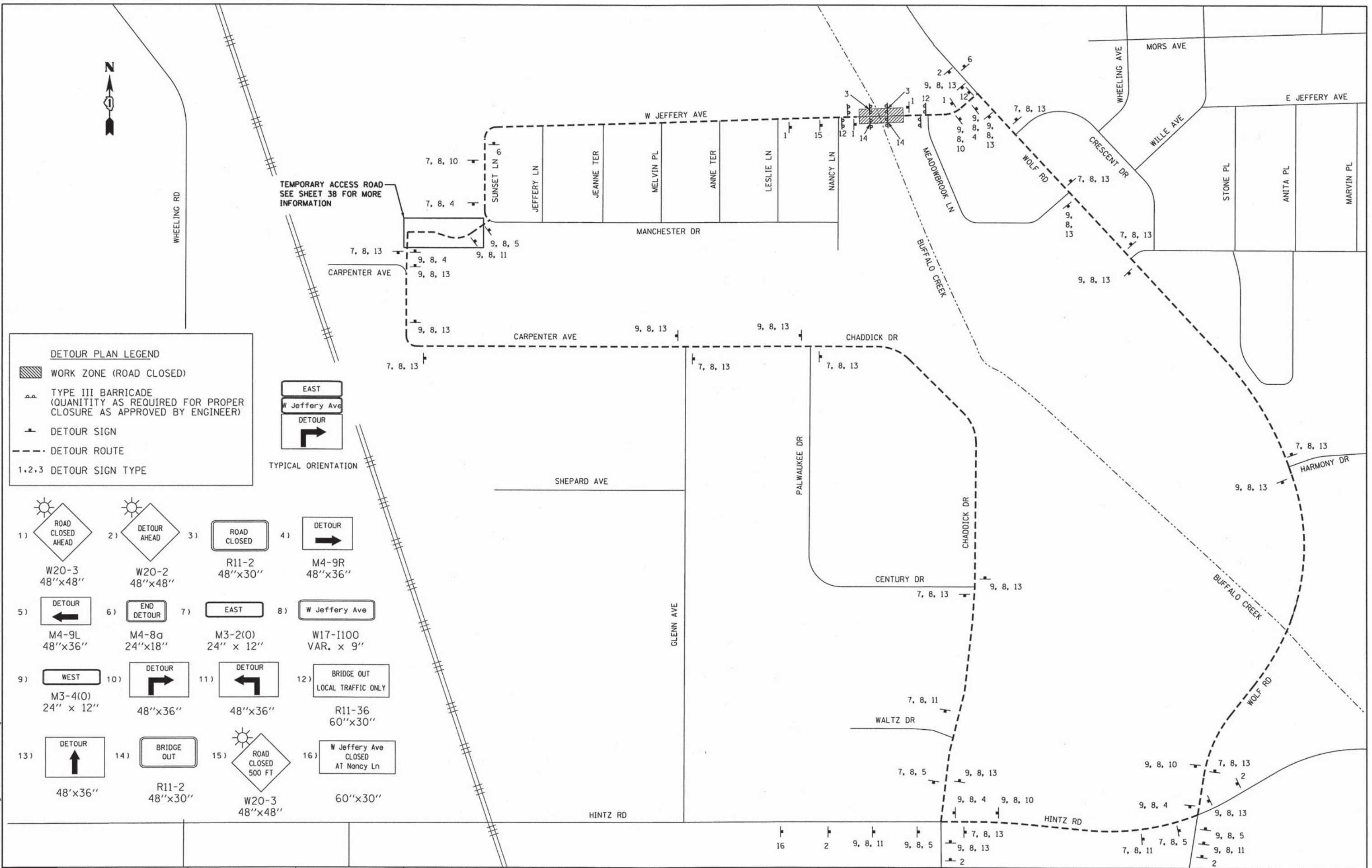
DETOUR PLAN LEGEND

- WORK ZONE (ROAD CLOSED)
- TYPE III BARRICADE (QUANTITY AS REQUIRED FOR PROPER CLOSURE AS APPROVED BY ENGINEER)
- DETOUR SIGN
- DETOUR ROUTE
- 1,2,3 DETOUR SIGN TYPE

TYPICAL ORIENTATION

1) ROAD CLOSED AHEAD W20-3 48"x48"	2) DETOUR AHEAD W20-2 48"x48"	3) ROAD CLOSED R11-2 48"x30"	4) DETOUR M4-9R 48"x36"
5) DETOUR M4-9L 48"x36"	6) END DETOUR M4-8C 24"x18"	7) EAST M3-2(O) 24" x 12"	8) W Jeffery Ave W17-1100 VAR. x 9"
9) WEST M3-4(O) 24" x 12"	10) DETOUR 48"x36"	11) DETOUR 48"x36"	12) BRIDGE OUT LOCAL TRAFFIC ONLY R11-36 60"x30"
13) DETOUR 48"x36"	14) BRIDGE OUT R11-2 48"x30"	15) ROAD CLOSED 500 FT W20-3 48"x48"	16) W Jeffery Ave CLOSED AT Nancy Ln 60"x30"

TEMPORARY ACCESS ROAD
SEE SHEET 38 FOR MORE
INFORMATION



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STATE OF ILLINOIS
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WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
DETOUR PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 17
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL AND LANDSCAPING NOTES:

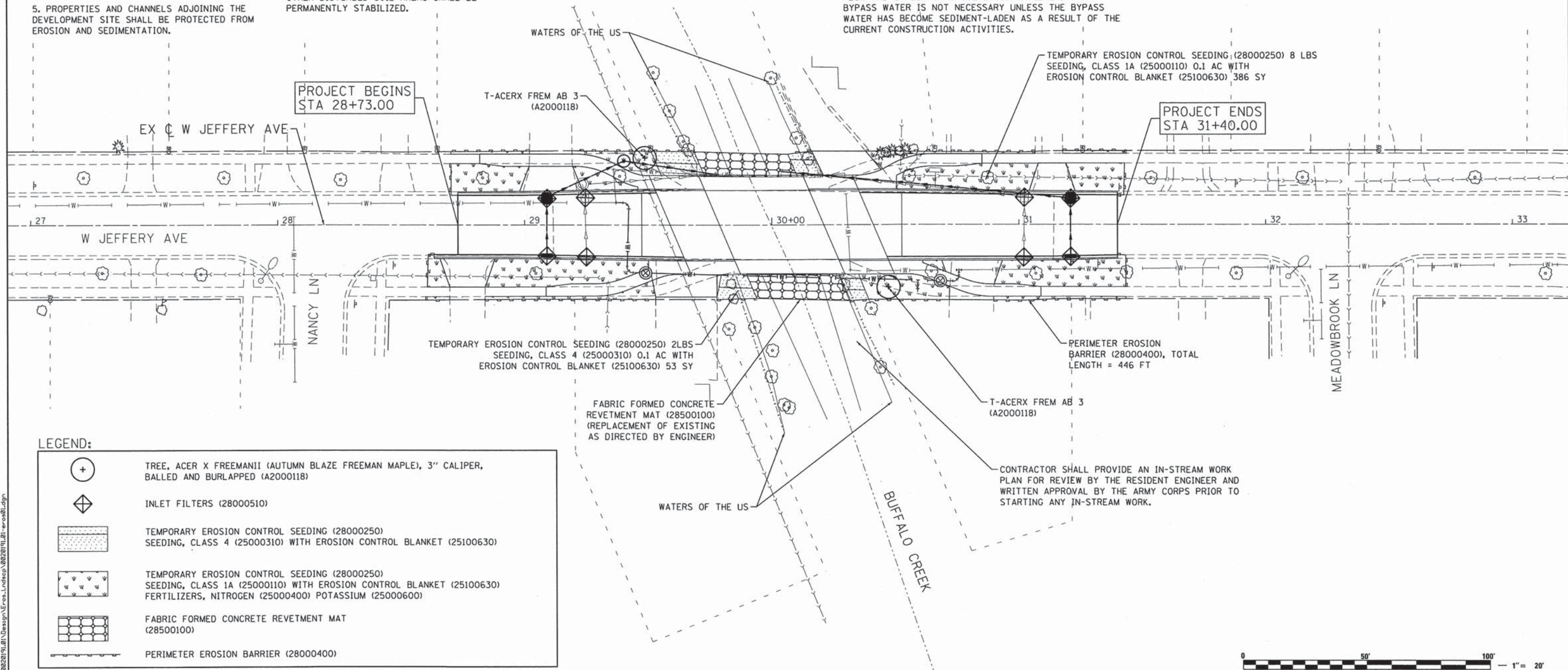
- ALL AREAS OF BARE GROUND WILL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROSION CONTROL IS IN PLACE
- ALL AREAS WITHIN R.O.W. WILL BE RESTORED WITH 4" TOPSOIL, EROSION CONTROL BLANKET AND SEEDING.
- NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED 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.
- 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.
- PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.

- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).
- 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. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF COOK COUNTY.
- CLEANING OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT POSSIBLE.
- ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE AT OR BELOW THE NORMAL WATER ELEVATION.

- WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF THE CAUSEWAY, WILL BE NECESSARY TO ENSURE EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING 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. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.

- DURING DEWATERING OF THE COFFERED AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMER SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER SHALL NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.



LEGEND:

	TREE, ACER X FREEMANII (AUTUMN BLAZE FREEMAN MAPLE), 3" CALIPER, BALLED AND BURLAPPED (A2000118)
	INLET FILTERS (28000510)
	TEMPORARY EROSION CONTROL SEEDING (28000250) SEEDING, CLASS 4 (25000310) WITH EROSION CONTROL BLANKET (25100630)
	TEMPORARY EROSION CONTROL SEEDING (28000250) SEEDING, CLASS 1A (25000110) WITH EROSION CONTROL BLANKET (25100630) FERTILIZERS, NITROGEN (25000400) POTASSIUM (25000600)
	FABRIC FORMED CONCRETE REVETMENT MAT (28500100)
	PERIMETER EROSION BARRIER (28000400)



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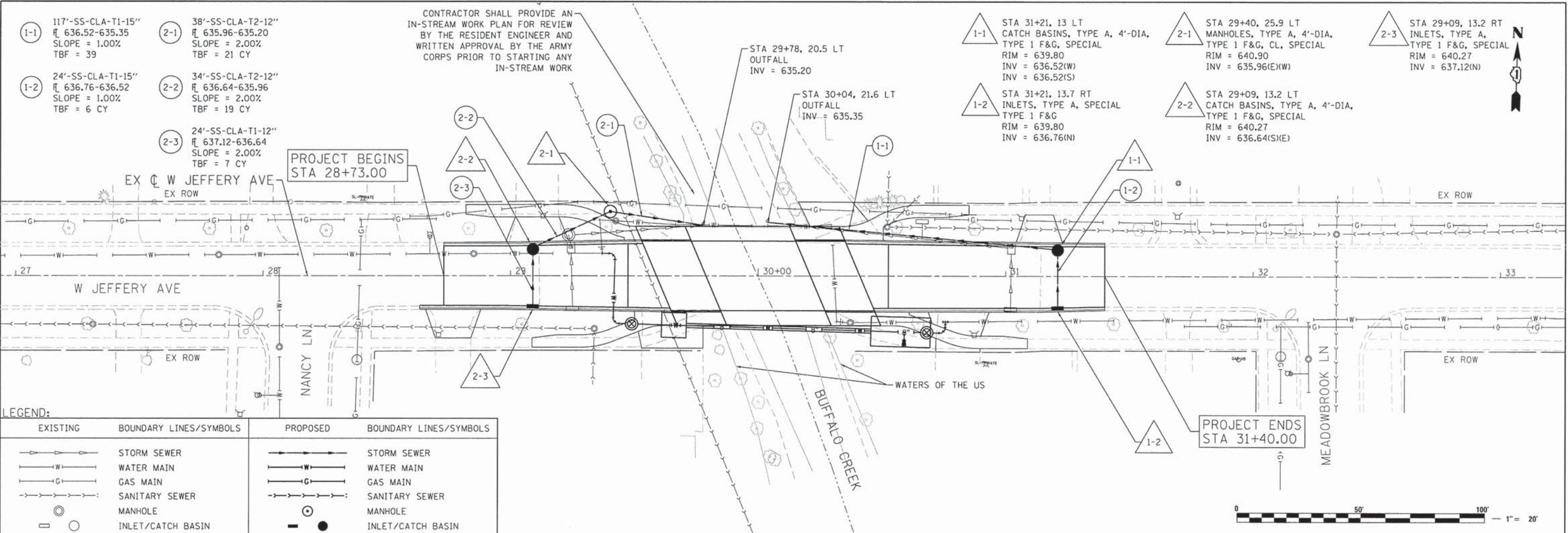
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 EROSION CONTROL & LANDSCAPING PLAN**

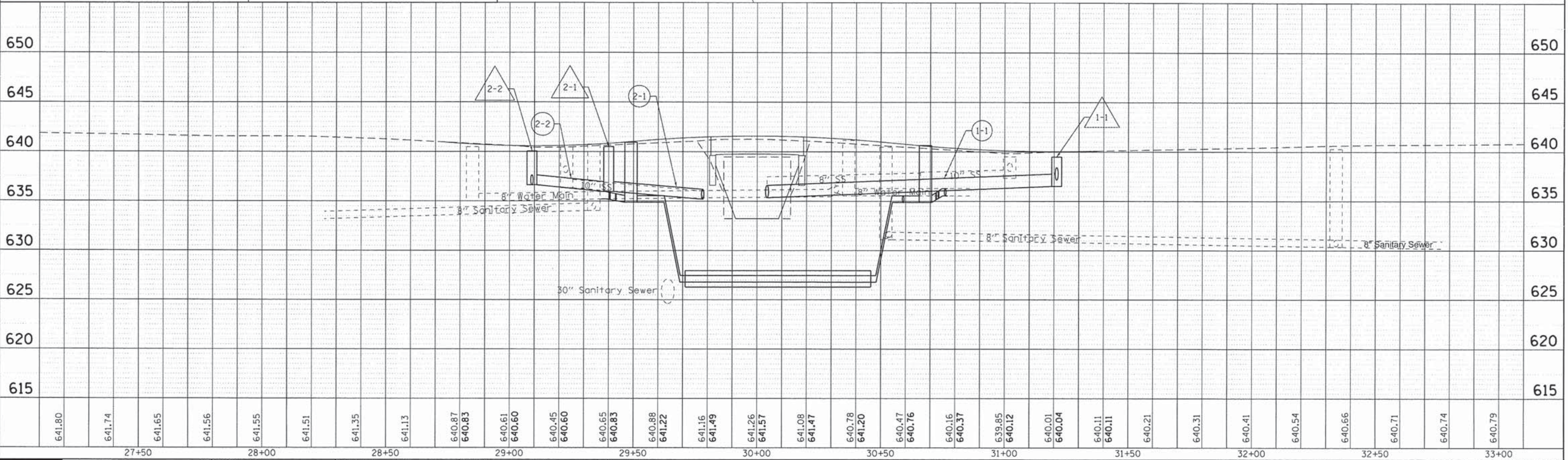
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F.A. RTE. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 18
CONTRACT NO. 61A34				
[ILLINOIS] FED. AID PROJECT				



LEGEND:

EXISTING	BOUNDARY LINES/SYMBOLS	PROPOSED	BOUNDARY LINES/SYMBOLS
	STORM SEWER		STORM SEWER
	WATER MAIN		WATER MAIN
	GAS MAIN		GAS MAIN
	SANITARY SEWER		SANITARY SEWER
	MANHOLE		MANHOLE
	INLET/CATCH BASIN		INLET/CATCH BASIN



641.80	641.74	641.65	641.56	641.55	641.51	641.35	641.13	640.87	640.83	640.61	640.60	640.45	640.60	640.65	640.83	640.88	641.22	641.16	641.49	641.26	641.57	641.08	641.47	640.78	641.20	640.47	640.76	640.16	640.37	639.85	640.12	640.01	640.04	640.11	640.11	640.21	640.31	640.41	640.54	640.66	640.71	640.74	640.79
27+50		28+00		28+50		29+00		29+50		30+00		30+50		31+00		31+50		32+00		32+50		33+00																					

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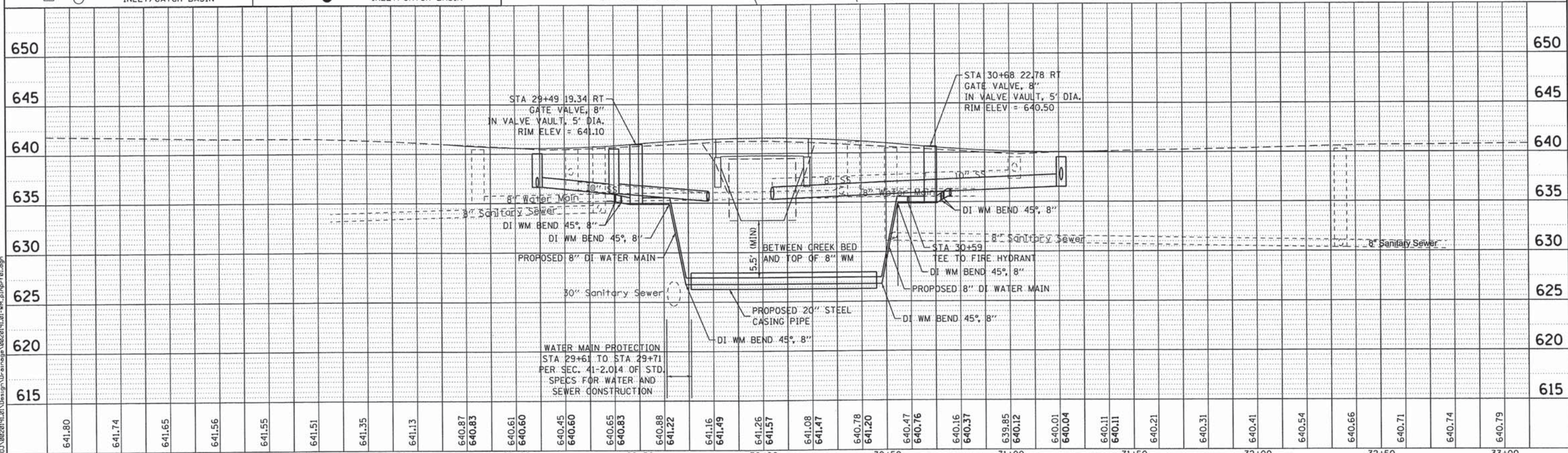
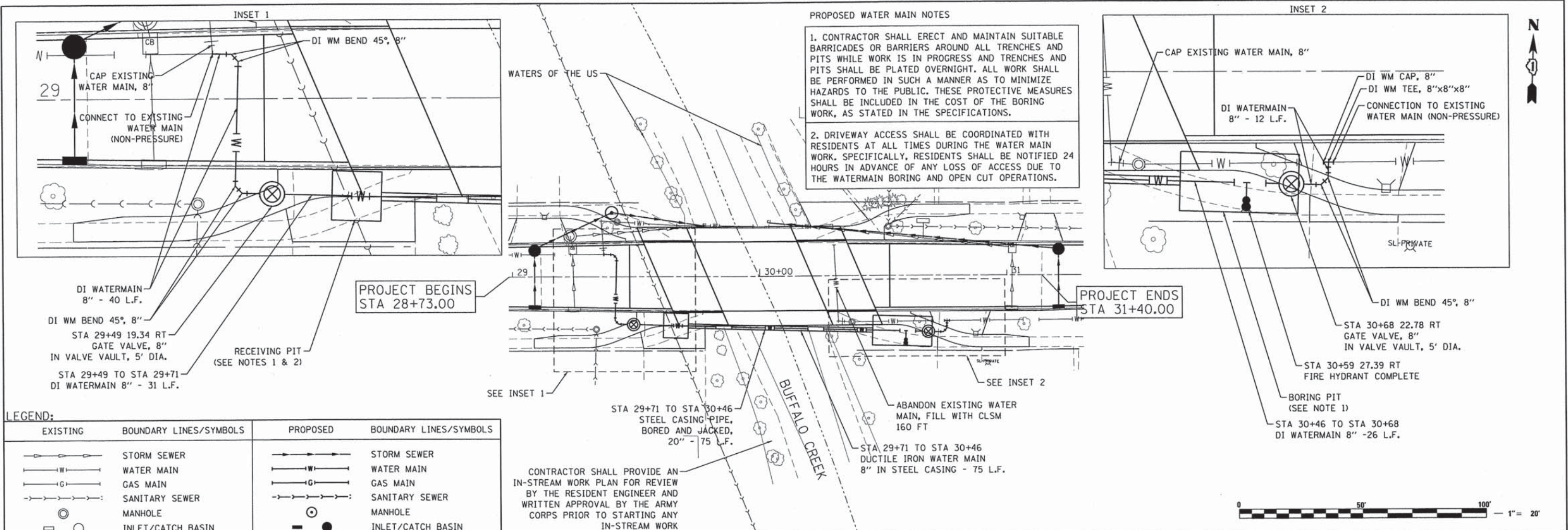
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	DATE - 4/30/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 PROPOSED DRAINAGE PLAN AND PROFILE

F.A. RTE. = N/A	SECTION = 11-00076-00-BR	COUNTY = COOK	TOTAL SHEETS = 48	SHEET NO. = 19
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

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650	645	640	635	630	625	620	615																																				
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27+50		28+00		28+50		29+00		29+50		30+00		30+50		31+00		31+50		32+00		32+50		33+00																					

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	DATE - 4/2/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 PROPOSED WATER MAIN PLAN AND PROFILE

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.R.T.E. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 20
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

Benchmark: Village of Wheeling monument on sidewalk at Southwest corner of existing bridge. Elevation 641.65

Existing Structure: SN 016-8211, built in 1956 as a two-cell 13'x5' concrete box culvert. In 1975, the top slab and center wall were removed, and replaced with a composite PPC Deck Beam superstructure, with a variable-thickness reinforced concrete overlay. The original side walls were thickened to 4' to form the abutments, and the culvert base slab was left in place. Thickened footings to be removed as needed to complete the structure replacement. Traffic to be detoured during construction.

No Salvage.

WATERWAY INFORMATION*

Drainage Area = 20.4 Sq. Mi. Low Grade Elev. 639.85 @ Sta. 31+00 (Exist.)
 10-year velocity = 3.8 ft/s Low Grade Elev. 640.04 @ Sta. 31+21 (Prop.)

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	H.W.E. Prop.	Exist.	Prop.	
	2	426	134.8	136.0	638.90	0.05	0.01	638.95	638.91
	10	606	152.6	157.0	639.65	0.19	0.09	639.84	639.74
Overtopping									
Design	30	849	152.6	157.0	640.27	0.43	0.27	640.70	640.54
Base	100	1411	152.6	157.0	641.14	0.21	0.01	641.35	641.15
Max. Calc.	500	2551	152.6	157.0	643.12	0.29	0.31	643.41	643.43

*Per Approved Floodway Permit

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	635.68	635.66

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

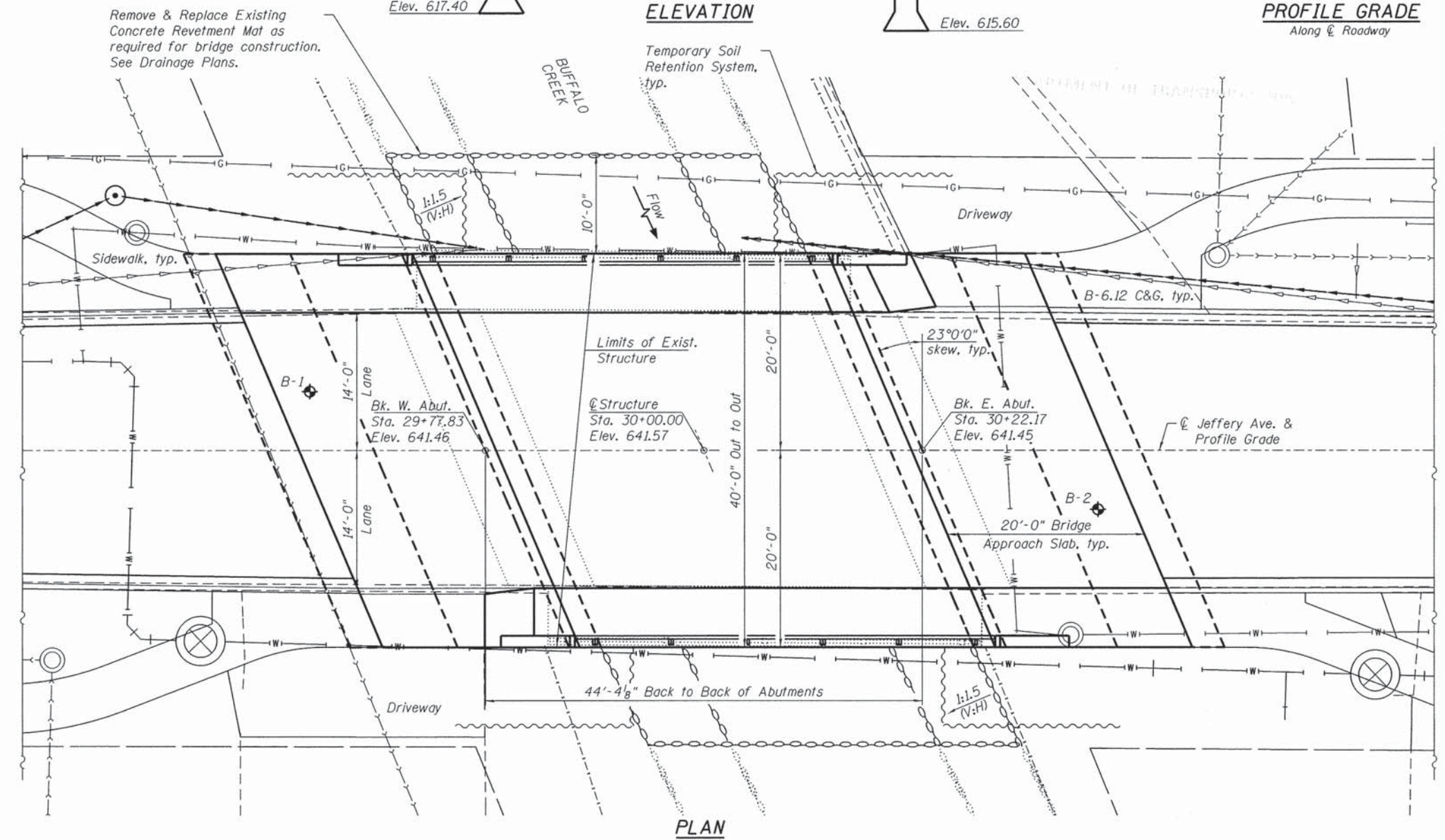
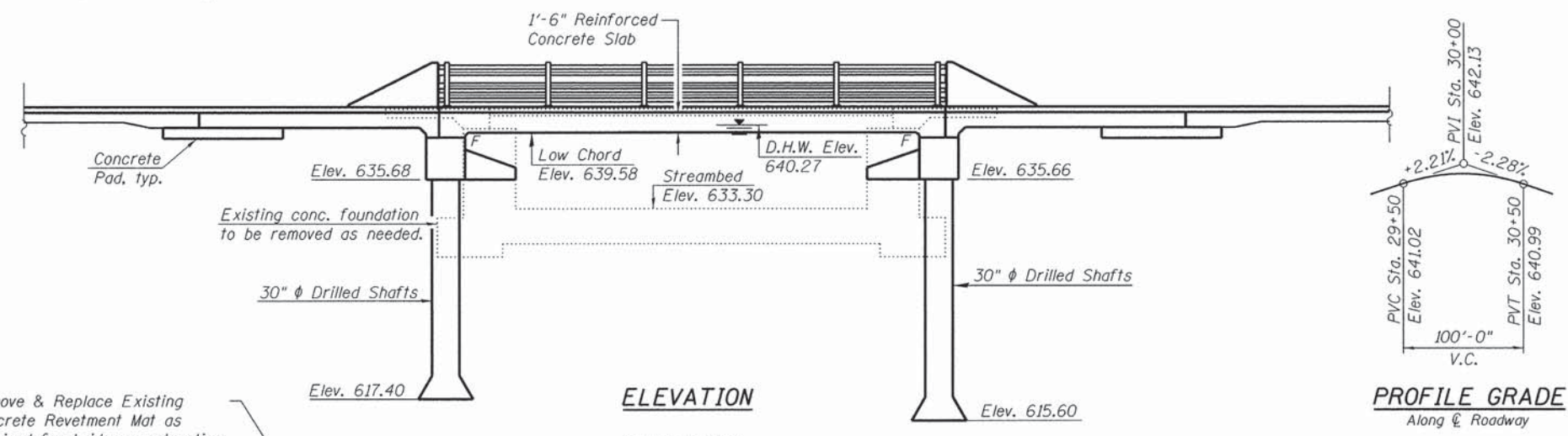
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Steel Railing)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.091g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.173g
 Soil Site Class = D



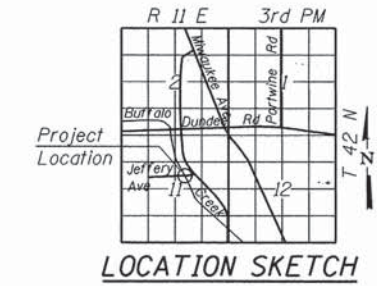
LEGEND:

- - - - - Existing Fence
- G - Existing Gas Line
- - - - - Existing Sanitary Sewer Line
- - - - - Existing Storm Sewer Line
- W - Existing Water Line
- W - Proposed Water Line
- - - - - Existing Right of Way Line or Permanent Easement
- ◆ Soil Boring



DATE: 4/30/2014
 SEAL EXPIRES: 11/30/2014
 Joseph J. Hosanna Jr.

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



GENERAL PLAN
JEFFERY AVENUE OVER
BUFFALO CREEK
SEC. 11-00076-00-BR
COOK COUNTY
STATION 30+00
STRUCTURE NO. 016-8215

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	CHECKED - J.J.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S-1 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	21
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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.
3. 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.
4. Work in the waterway shall be timed to take place during low flow conditions.
5. 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.

INDEX OF SHEETS

- S-1 General Plan
- S-2 General Notes, Bill of Material and Index of Sheets
- S-3 Removal Plan
- S-4 Top of Slab Elevations
- S-5 Top of West Approach Slab Elevations
- S-6 Top of East Approach Slab Elevations
- S-7 Superstructure Plan and Cross Section
- S-8 Bridge Approach Slab Details 1
- S-9 Bridge Approach Slab Details 2
- S-10 Railing Bolster Details
- S-11 Steel Railing, Special
- S-12 Abutment Details 1
- S-13 Abutment Details 2
- S-14 Soil Boring Log 1
- S-15 Soil Boring Log 2
- S-16 Soil Boring Log 3
- S-17 Soil Boring Log 4

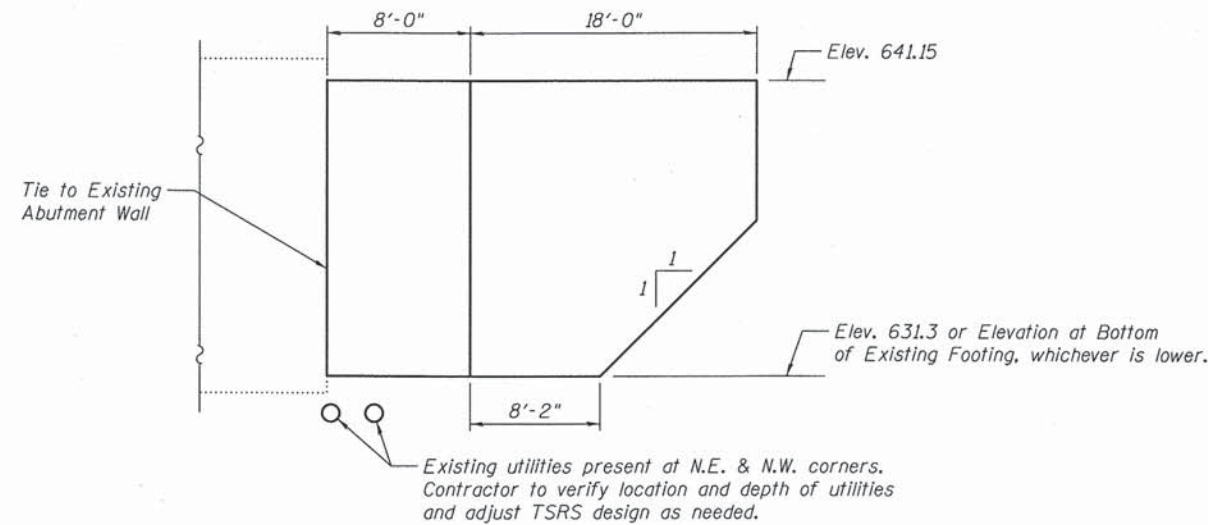
BUFFALO CREEK
BUILT 20... BY
VILLAGE OF WHEELING
SEC. 11-00076-00-BR
STATION 30+00
STR. NO. 016-8215
LOADING HL-93

NAME PLATE
See Std. 515001

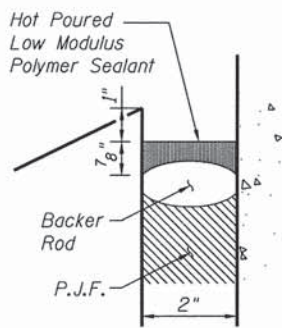
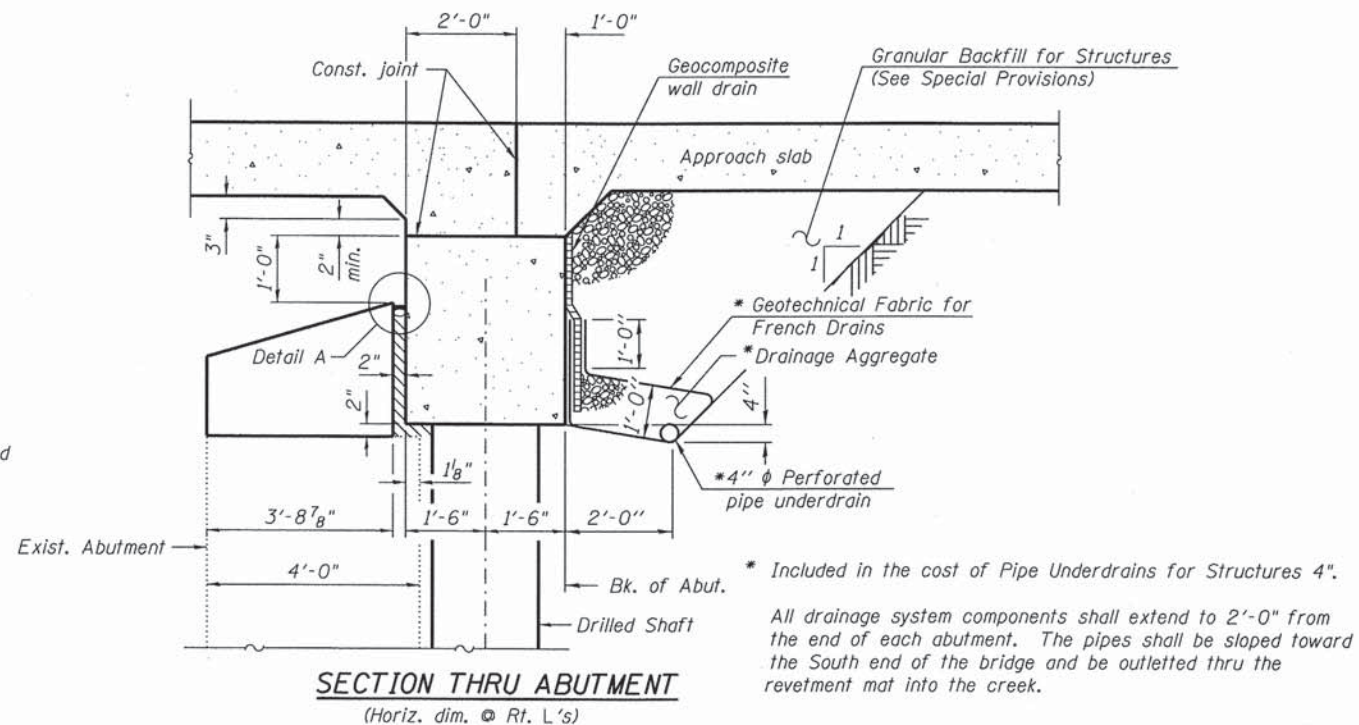
SUGGESTED SEQUENCE OF CONSTRUCTION

1. Remove Existing Superstructure.
2. Install Temporary Soil Retention System.
3. Excavate behind existing abutments to elevation of existing footing.
4. Partial removal of abutments. (See Sheet S-3).
5. Backfill behind existing abutments to elevation for proposed abutment placement.
6. Install drilled shafts at both abutments.
7. Form and pour abutments.
8. Form and pour deck and approach slabs.

Note: Contractor to sequence installation of proposed water main in conjunction with temporary soil retention system.



TEMPORARY SOIL RETENTION SYSTEM
(Developed Elevation Shown)



DETAIL A

Note: Sealant, Backer Rod and P.J.F. shall meet the requirements of sections 1050 and 1051 of The IDOT Standard Specifications. Cost included with cost of Concrete Structures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUB	SUPER	TOTAL
Removal Of Existing Superstructures	Each		1	1
Concrete Removal	Cu Yd	67.3		67.3
Structure Excavation	Cu Yd	242		242
Concrete Structures	Cu Yd	80.2		80.2
Concrete Superstructure	Cu Yd		199.7	199.7
Bridge Deck Grooving	Sq Yd		238	238
Protective Coat	Sq Yd		376	376
Reinforcement Bars	Pound	7850		7850
Reinforcement Bars, Epoxy Coated	Pound	10380	53630	64010
Name Plates	Each		1	1
Drilled Shaft In Soil	Cu Yd	53.7		53.7
Geocomposite Wall Drain	Sq Yd	34		34
** Granular Backfill For Structures	Cu Yd	150		150
** Steel Railing (Special)	Foot		85	85
** Pipe Underdrains For Structures 4"	Foot	108		108
** Temporary Soil Retention System	Sq Ft	1218		1218

** Special Provision

N:\PROJ\022015\01\Design\Structure\CAD\016-8215-02-General_Notes.dgn



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DESIGNED - BWS
CHECKED - JQH
DRAWN - RCD
PLOT SCALE = 8.883333 1/16"
PLOT DATE = 4/4/2014

DESIGNED - BWS
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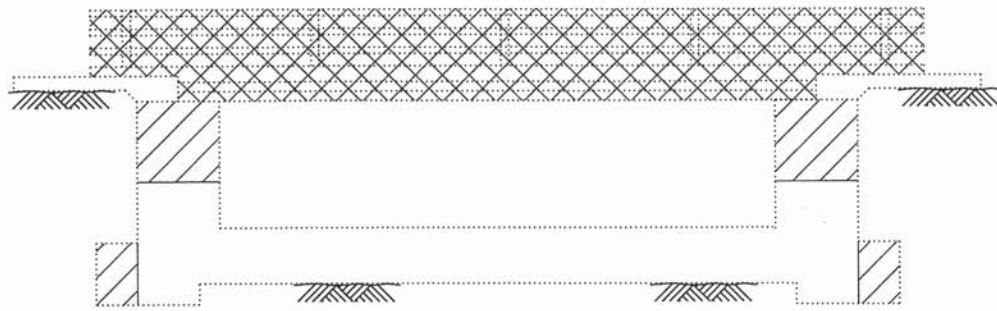
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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

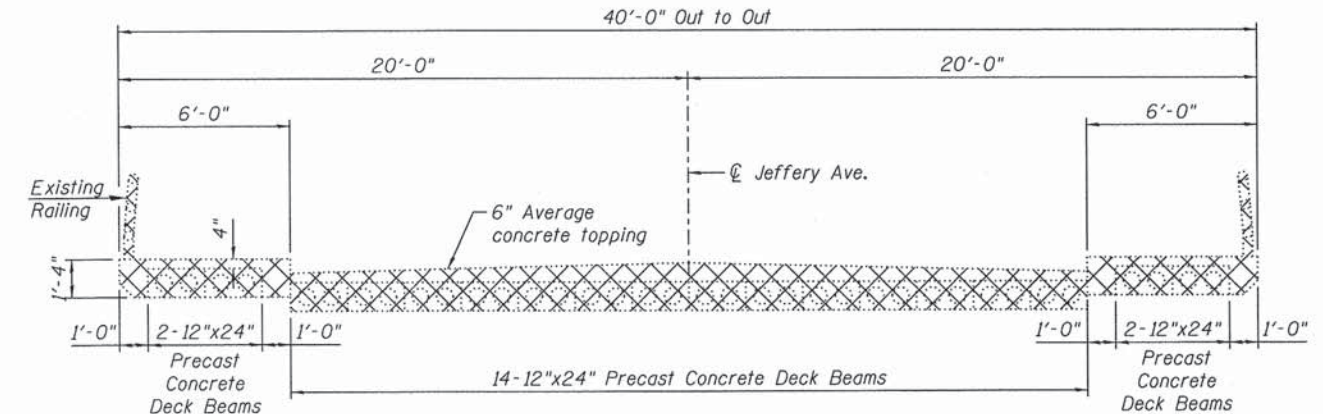
GENERAL NOTES, BILL OF MATERIAL AND INDEX OF SHEETS
STRUCTURE NO. 016-8215

SHEET NO. S-2 OF S-17 SHEETS

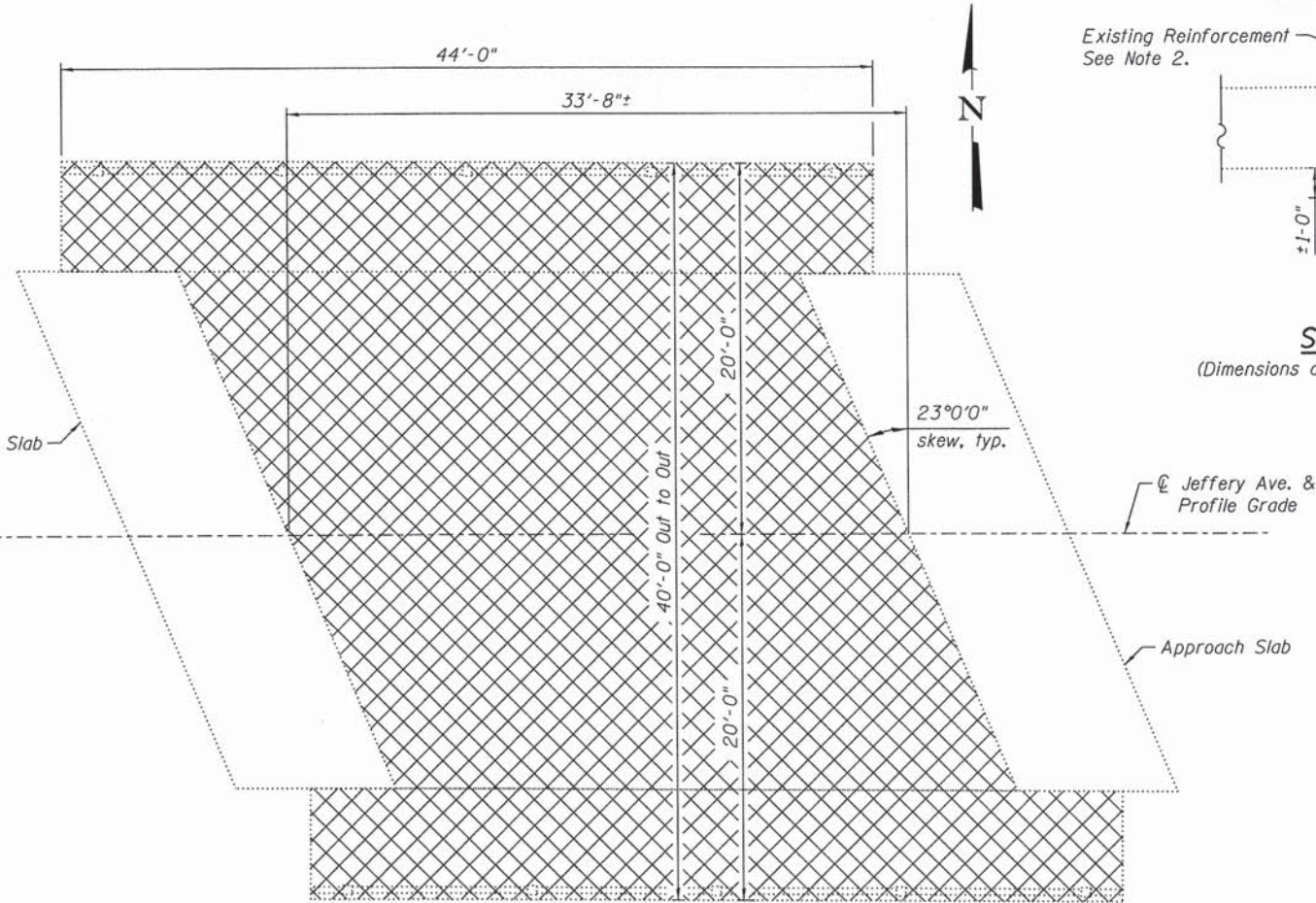
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N/A	11-00076-00-BR	COOK	48	22
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



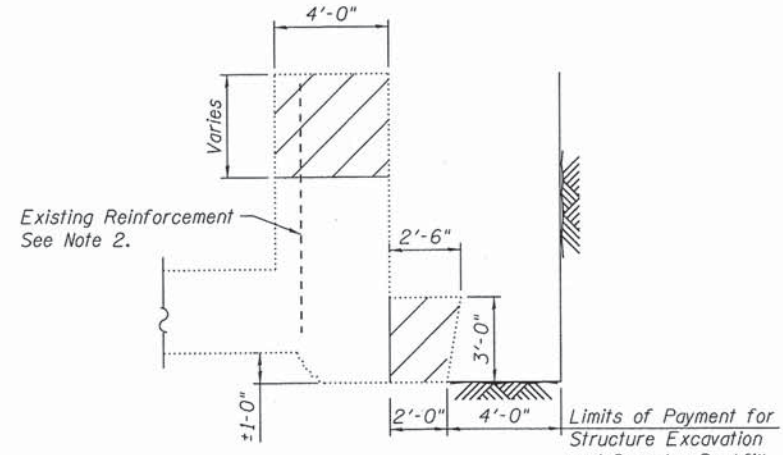
ELEVATION



SECTION THRU STRUCTURE

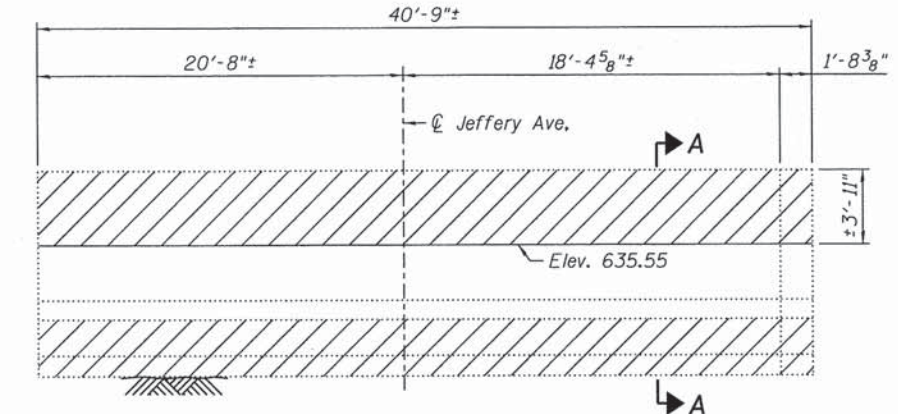


PLAN



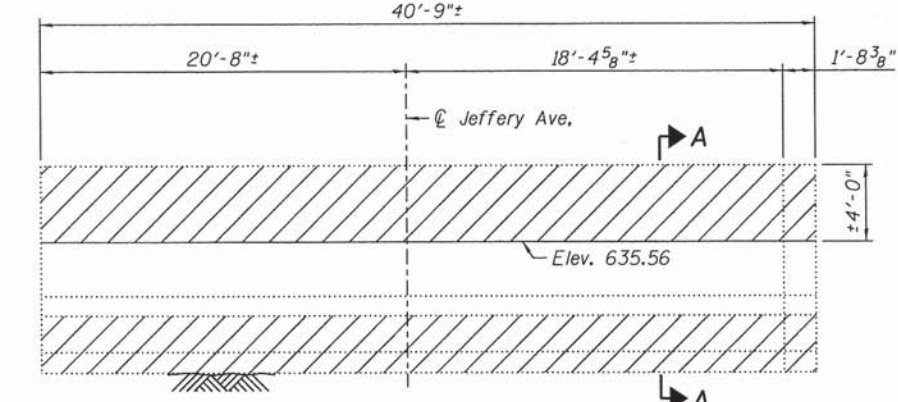
SECTION A-A

(Dimensions are at right L's to abutment.)



ELEVATION EAST ABUTMENT

Looking West



ELEVATION WEST ABUTMENT

Looking East

NOTES:

- Quantities for Structure Excavation and Granular Backfill for Structures required during concrete removal operations shown on sheet S-12.
- Existing reinforcement shall be cleaned and incorporated in the new construction. Cost included with Concrete Removal.

LEGEND:

- Superstructure Removal
- Concrete Removal

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	67.3
Removal of Existing Superstructures	Each	1

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Clorba Group, Inc.
CONSULTING ENGINEERS
5057 North Cumberland Avenue
Suite 202, Chicago, Illinois 60630
Tel: 773.775.4000
Fax: 773.775.4014
Email: clorba@clorba.com

USER NAME = rdonley	DESIGNED - BWS	REVISED -
	CHECKED - JJH	REVISED -
PLOT SCALE = 5/8" = 1' / in.	DRAWN - RCD	REVISED -
PLOT DATE = 3/24/2014	CHECKED - JJH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
STRUCTURE NO. 016-8215**
SHEET NO. S-3 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	23
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF DECK

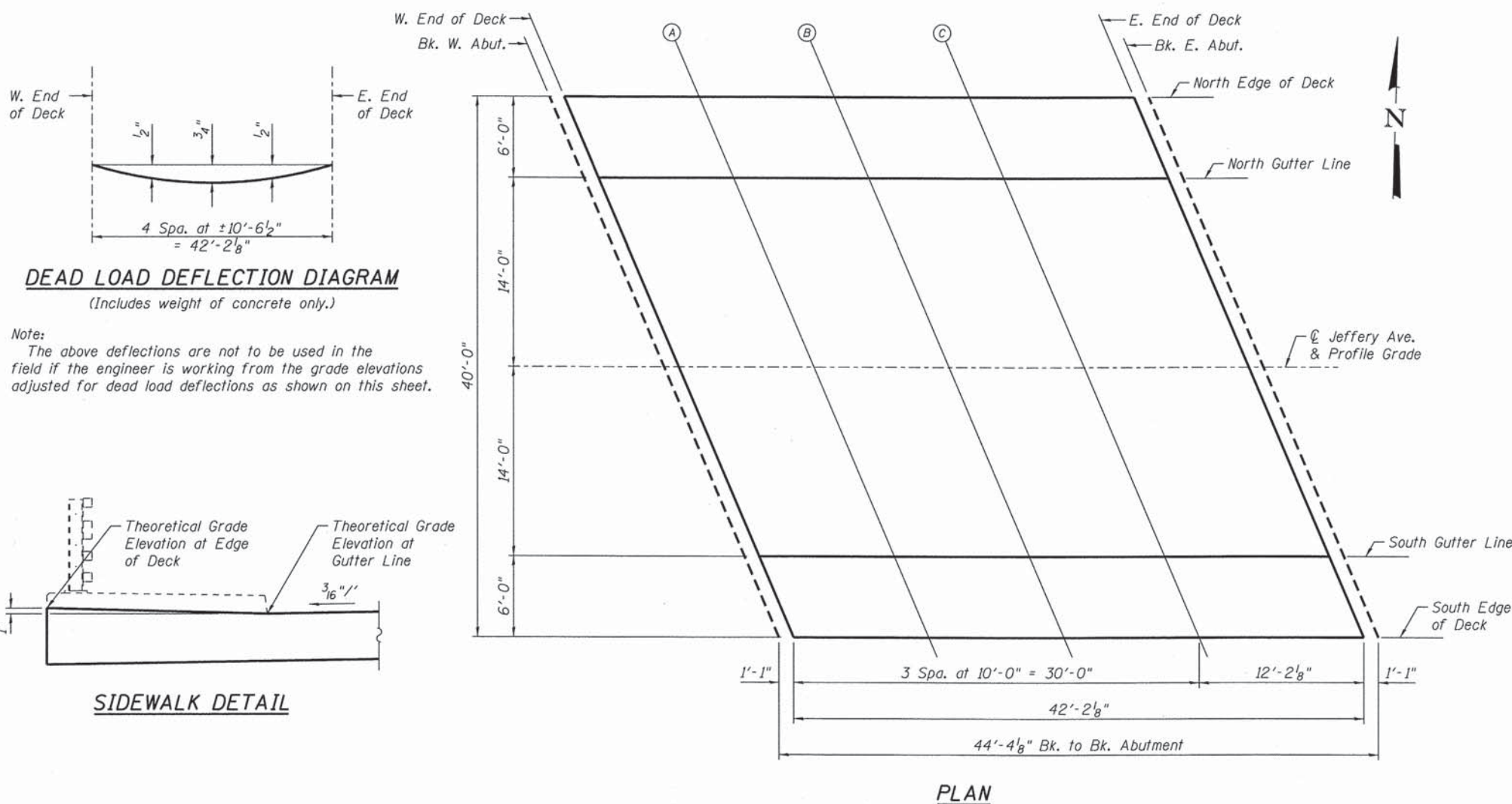
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+69.34	-20.00	641.23	641.23
W. End of Deck	29+70.42	-20.00	641.24	641.24
A	29+80.42	-20.00	641.35	641.39
B	29+90.42	-20.00	641.41	641.47
C	30+00.42	-20.00	641.43	641.47
E. End of Deck	30+12.60	-20.00	641.39	641.39
Bk. E. Abut.	30+13.68	-20.00	641.39	641.39

NORTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+71.88	-14.00	641.18	641.18
W. End of Deck	29+72.97	-14.00	641.19	641.19
A	29+82.97	-14.00	641.29	641.33
B	29+92.97	-14.00	641.34	641.40
C	30+02.97	-14.00	641.35	641.39
E. End of Deck	30+15.14	-14.00	641.29	641.29
Bk. E. Abut.	30+16.23	-14.00	641.28	641.28

JEFFERY AVE. AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+77.83	0.00	641.46	641.46
W. End of Deck	29+78.91	0.00	641.47	641.47
A	29+88.91	0.00	641.54	641.58
B	29+98.91	0.00	641.57	641.63
C	30+08.91	0.00	641.55	641.59
E. End of Deck	30+21.09	0.00	641.46	641.46
Bk. E. Abut.	30+22.17	0.00	641.45	641.45



SOUTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+83.77	14.00	641.29	641.29
W. End of Deck	29+84.86	14.00	641.30	641.30
A	29+94.86	14.00	641.34	641.39
B	30+04.86	14.00	641.34	641.40
C	30+14.86	14.00	641.29	641.34
E. End of Deck	30+27.03	14.00	641.18	641.18
Bk. E. Abut.	30+28.12	14.00	641.16	641.16

SOUTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	29+86.32	20.00	641.39	641.39
W. End of Deck	29+87.40	20.00	641.40	641.40
A	29+97.40	20.00	641.43	641.47
B	30+07.40	20.00	641.42	641.48
C	30+17.40	20.00	641.36	641.40
E. End of Deck	30+29.58	20.00	641.23	641.23
Bk. E. Abut.	30+30.66	20.00	641.21	641.21

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NORTH EDGE OF APPROACH PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	29+50.42	-20.00	640.89
A1	29+60.42	-20.00	641.09
W. End of Deck	29+70.42	-20.00	641.24

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	29+52.97	-14.00	640.87
A1	29+62.97	-14.00	641.05
W. End of Deck	29+72.97	-14.00	641.19

JEFFERY AVE. AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	29+58.91	0.00	641.20
A1	29+68.91	0.00	641.36
W. End of Deck	29+78.91	0.00	641.47

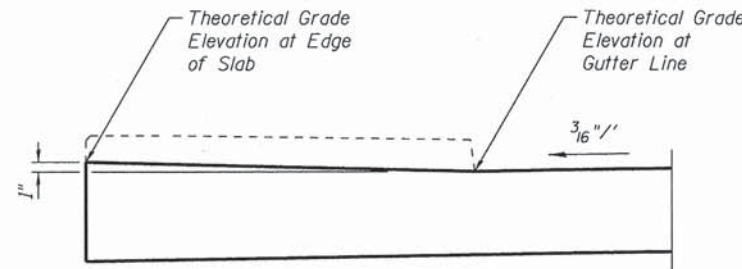
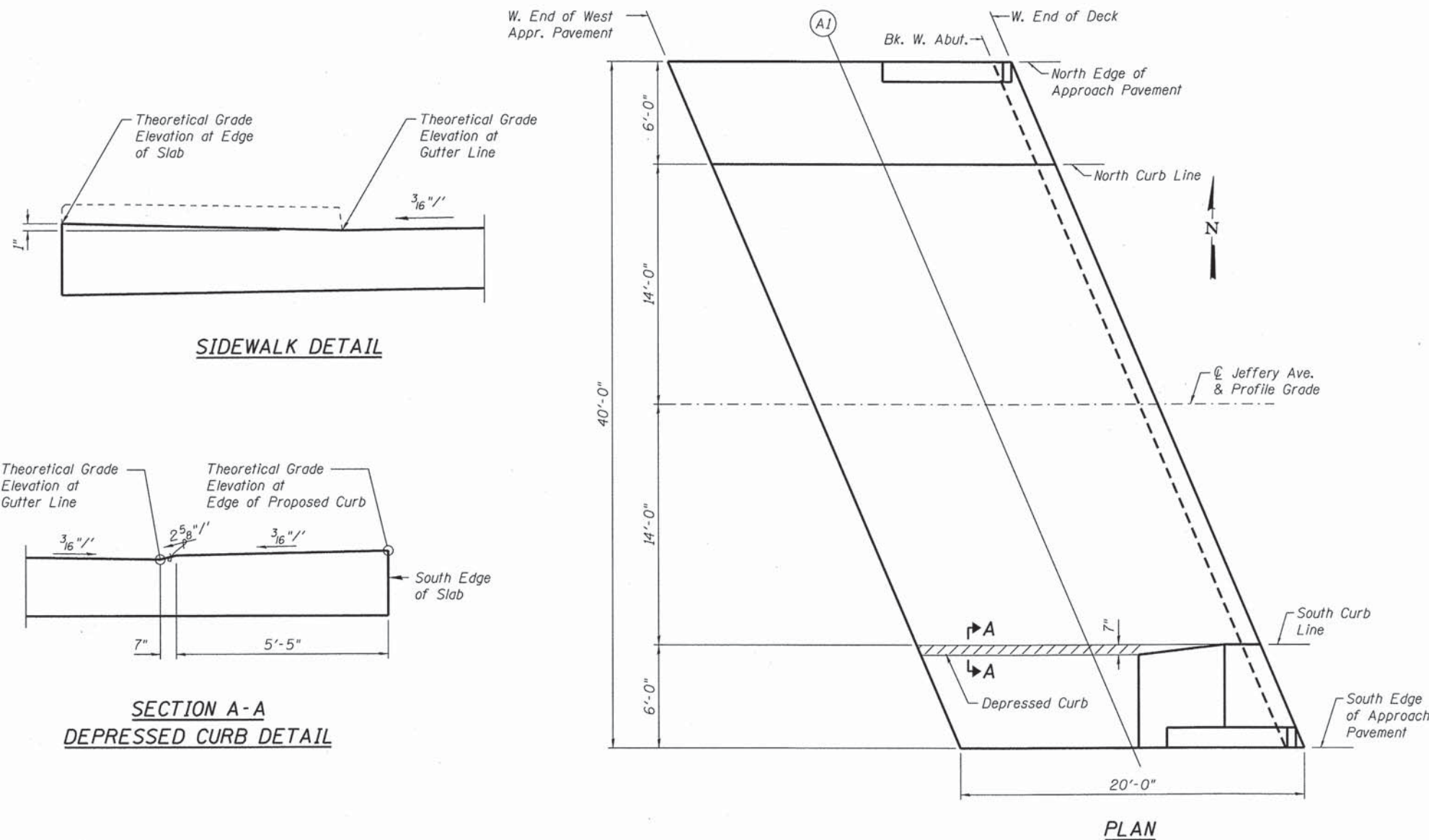
SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	29+64.86	14.00	641.08
A1	29+74.86	14.00	641.21
W. End of Deck	29+84.86	14.00	641.30

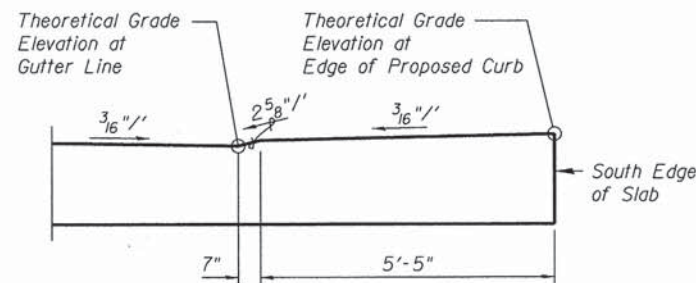
SOUTH EDGE OF APPROACH PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	29+67.40	20.00	*641.33
A1	29+77.40	20.00	*641.45
W. End of Deck	29+87.40	20.00	641.40

* Elevations adjusted for depressed curb, see detail.



SIDEWALK DETAIL



**SECTION A-A
DEPRESSED CURB DETAIL**

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NORTH EDGE OF APPROACH PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End of Deck	30+12.60	-20.00	641.39
A2	30+22.60	-20.00	*641.43
E. End of East Appr. Pavement	30+32.60	-20.00	*641.31

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End of Deck	30+15.14	-14.00	641.29
A2	30+25.14	-14.00	641.20
E. End of East Appr. Pavement	30+35.14	-14.00	641.06

☉ JEFFERY AVE. AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
E. End of Deck	30+21.09	0.00	641.46
A2	30+31.09	0.00	641.34
E. End of East Appr. Pavement	30+41.09	0.00	641.18

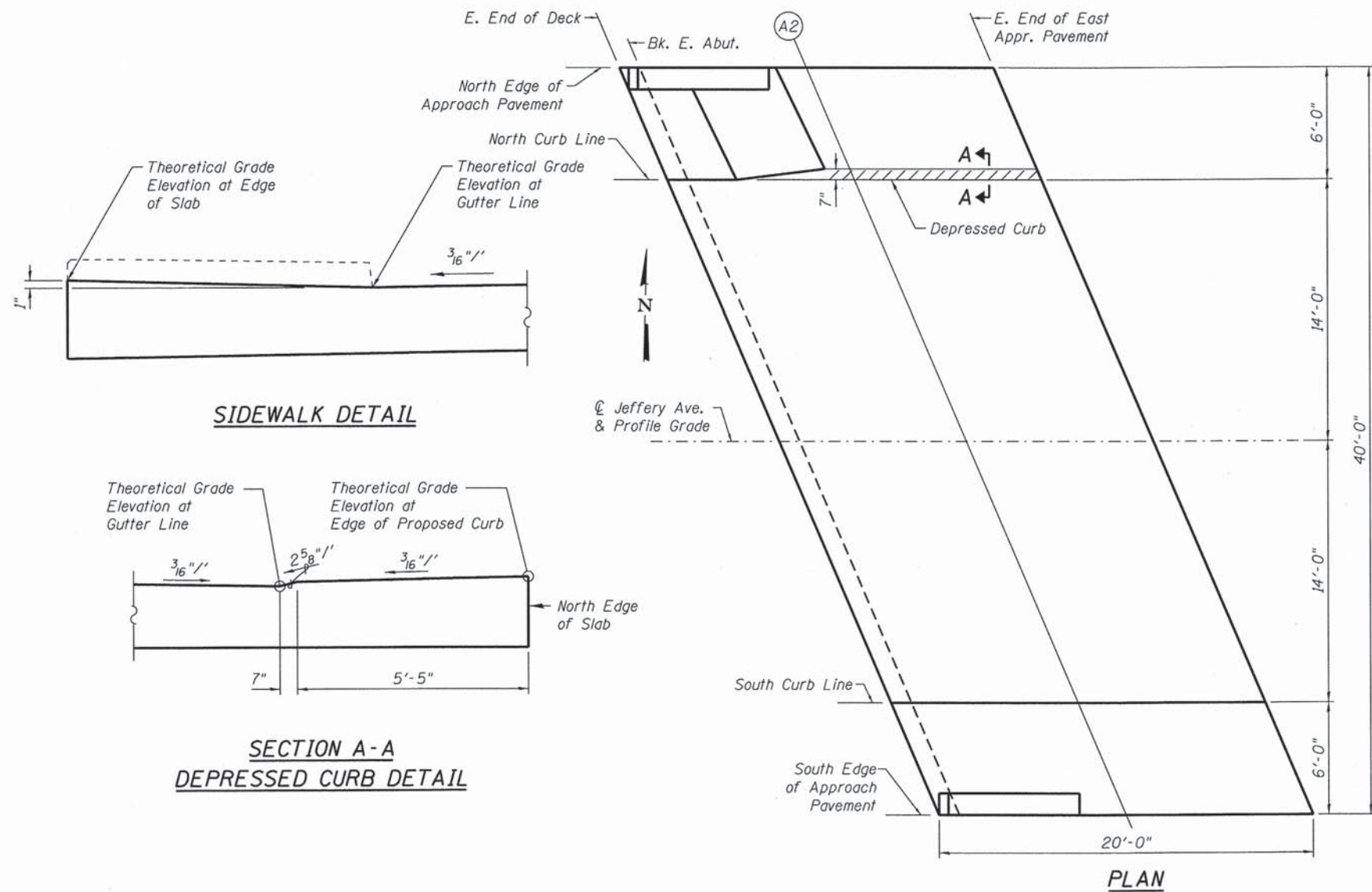
* Elevations adjusted for depressed curb, see detail.

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End of Deck	30+27.03	14.00	641.18
A2	30+37.03	14.00	641.03
E. End of East Appr. Pavement	30+47.03	14.00	640.84

SOUTH EDGE OF APPROACH PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End of Deck	30+29.58	20.00	641.23
A2	30+39.58	20.00	641.07
E. End of East Appr. Pavement	30+49.58	20.00	640.86

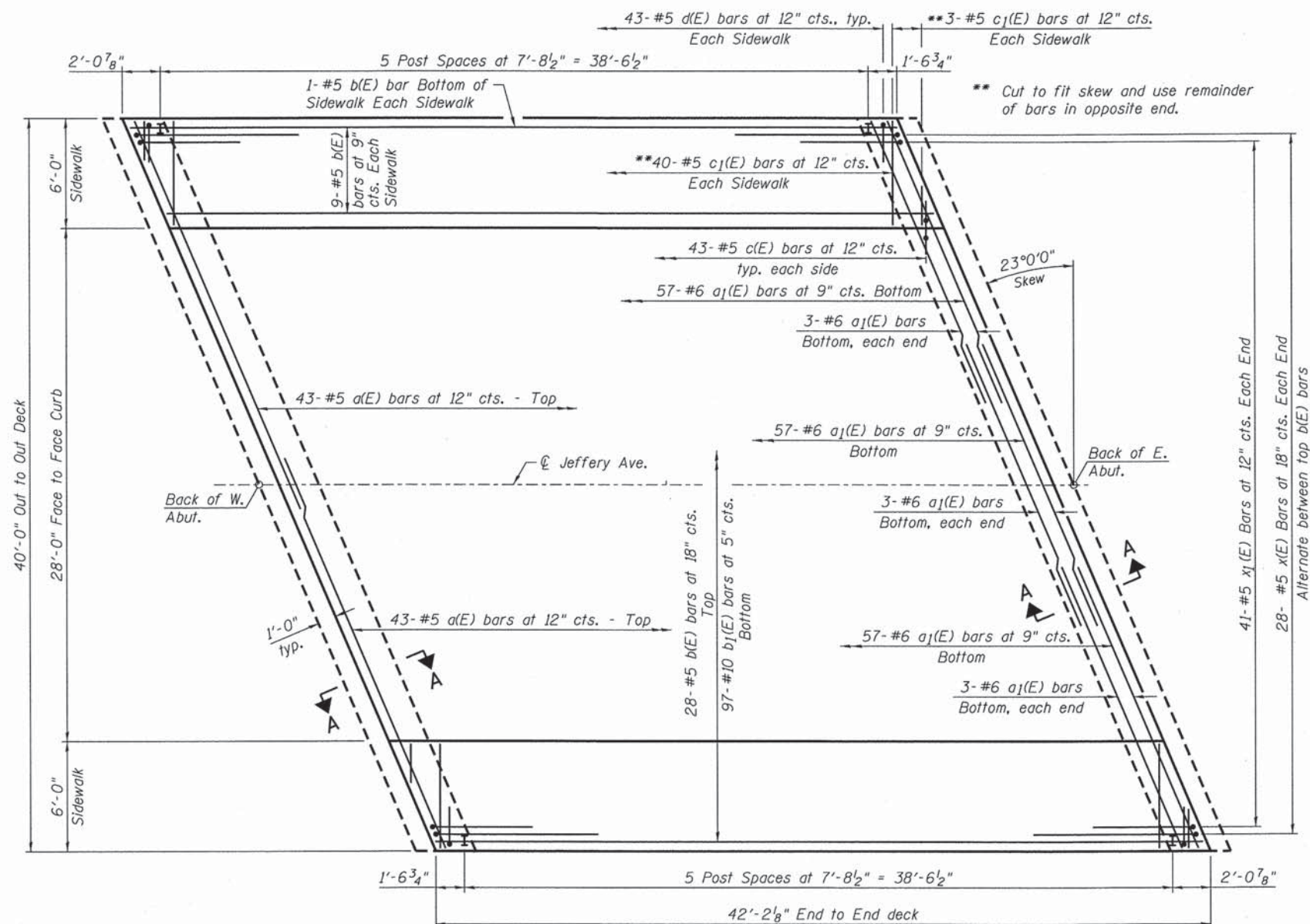


SIDEWALK DETAIL

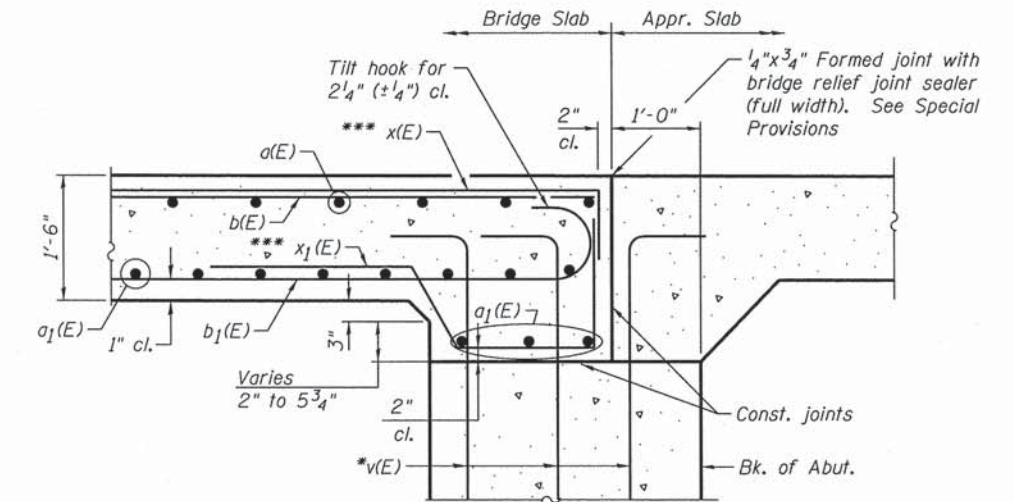
**SECTION A-A
DEPRESSED CURB DETAIL**

PLAN

N:\PROJECTS\02020191_01\Design\Structural\CAD\016-8215-06-Top of East Approach Slab Elevations.dgn



PLAN

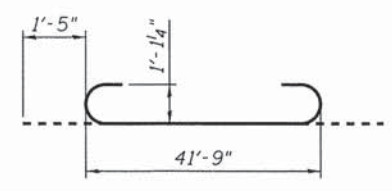


SECTION A-A

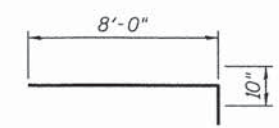
(Dimensions at right angles to abutment.)

Pour bridge slab before pouring approach slab.

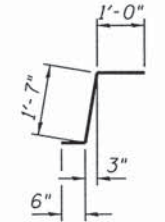
- * v(E) bars included with the abutments on sheet S-12.
- *** Place x(E) & x1(E) bars parallel to C of Roadway.



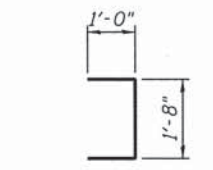
BAR b1(E)



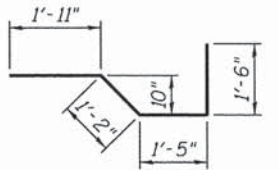
BAR x(E)



BAR c(E)



BAR d(E)



BAR x1(E)

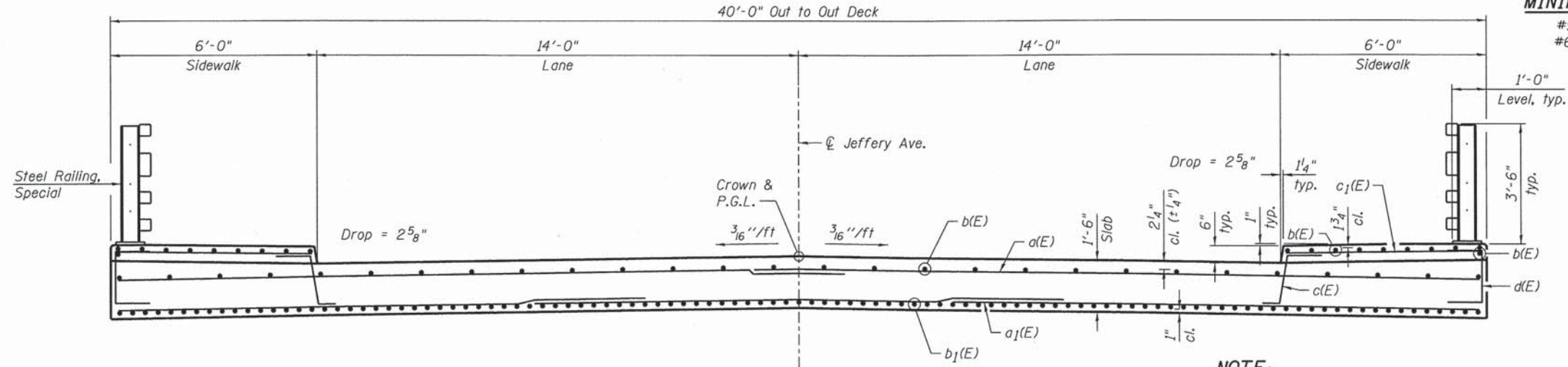
MINIMUM BAR LAP

- #5 Bars = 3'-8"
- #6 Bars = 3'-10"

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	86	# 5	23'-5"	—
a1(E)	189	# 6	16'-11"	—
b(E)	48	# 5	41'-10"	—
b1(E)	97	# 10	44'-7"	—
c(E)	86	# 5	3'-1"	┌
c1(E)	86	# 5	5'-8"	—
d(E)	86	# 5	3'-8"	└
x(E)	56	# 5	8'-10"	—
x1(E)	82	# 5	6'-0"	—

Concrete Superstructure	Cu. Yd.	108.3
Reinforcement Bars, Epoxy Coated	Pound	29,750
Bridge Deck Grooving	Sq. Yd.	122
Protective Coat	Sq. Yd.	193



CROSS SECTION
(Looking East)

NOTE:

See sheets S-10 and S-11 for additional sidewalk details and bridge rail details.

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USER NAME = rdenley
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 PLOT DATE = 3/24/2014

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 CHECKED - JJH
 DRAWN - RCD
 CHECKED - JJH

REVISED -
 REVISED -
 REVISED -
 REVISED -

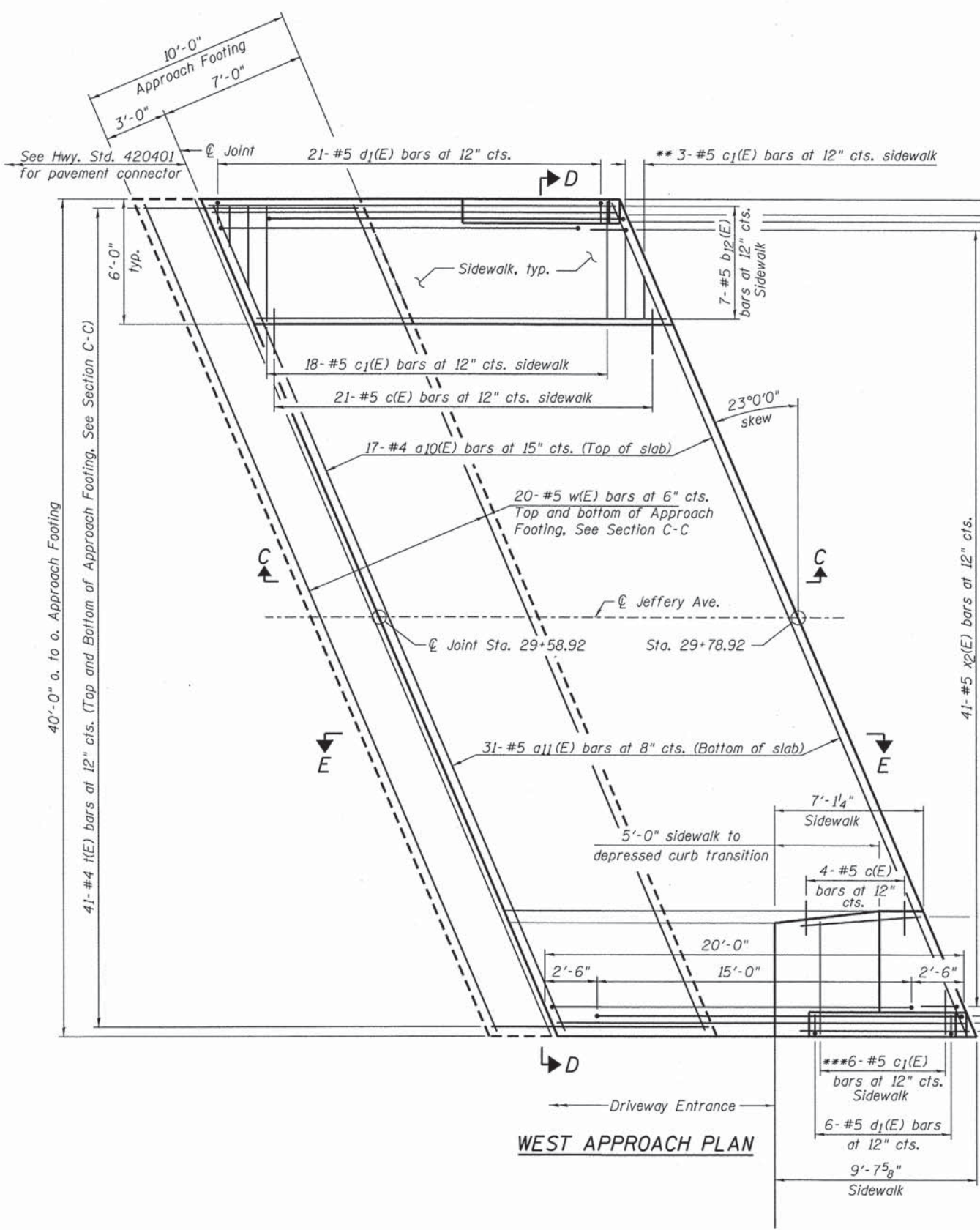
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 016-8215

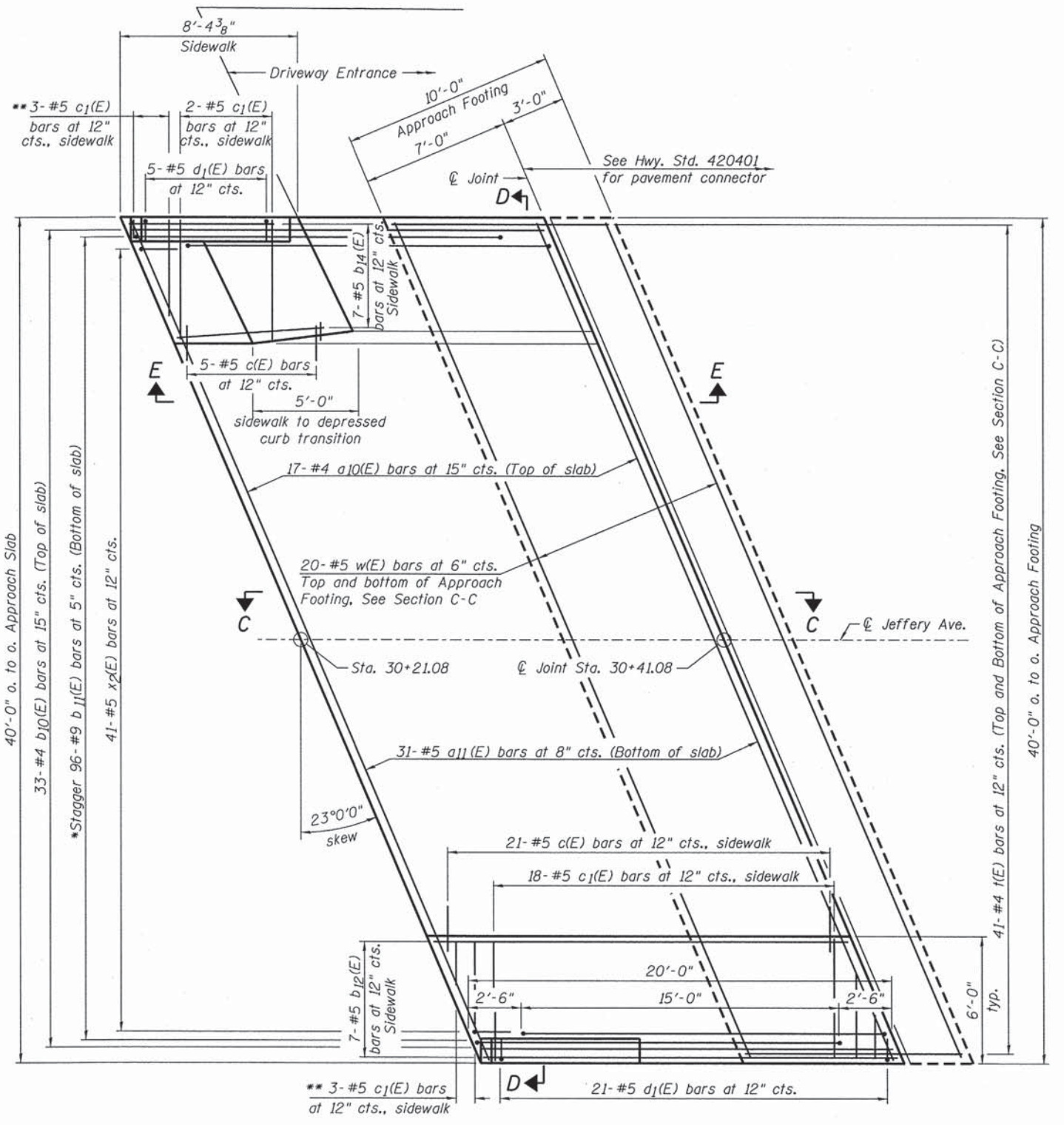
SHEET NO. S-7 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	27
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

N:\PROJECTS\2019\20191121\Design\Structure\CAD\016-8215-08-BrIDGE-Approach-Slab-Details-1.dgn



WEST APPROACH PLAN



EAST APPROACH PLAN

- * Tilt #9 b1(E) bars as required to maintain clearance.
- ** Cut to fit skew and use remainder on other end.
- *** Cut to fit as required.

NOTES:

1. See Sheet S-9 for Sections C-C, D-D and View E-E.
2. a10(E) and a11(E) bar spacings measured along ϕ Rdwy.

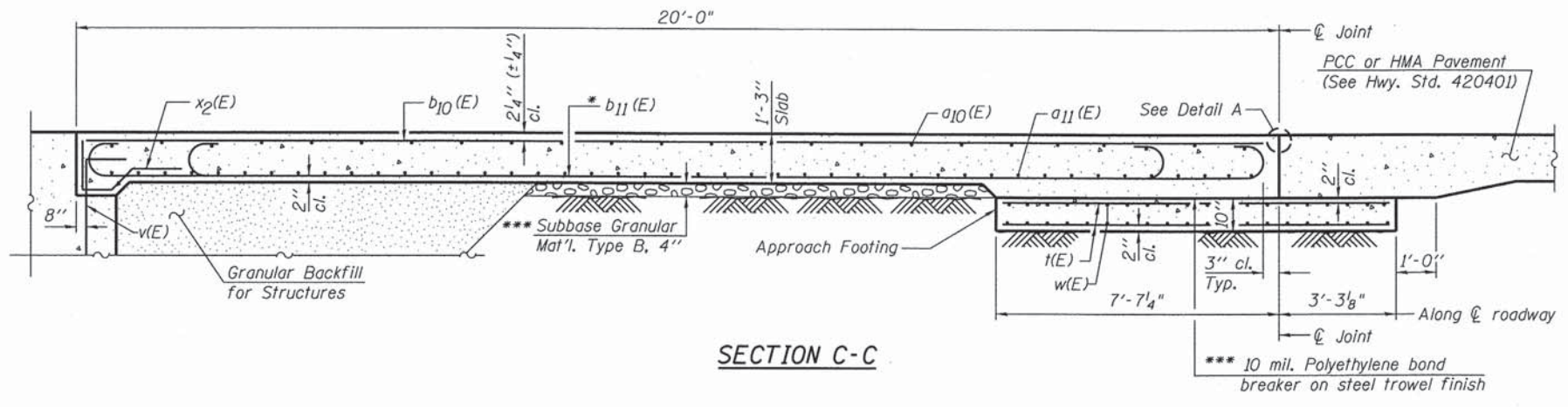


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

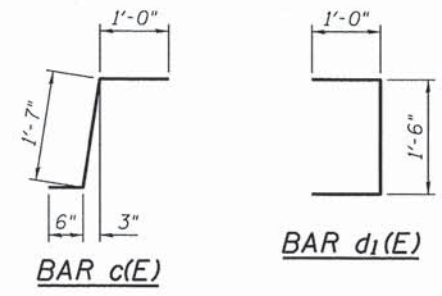
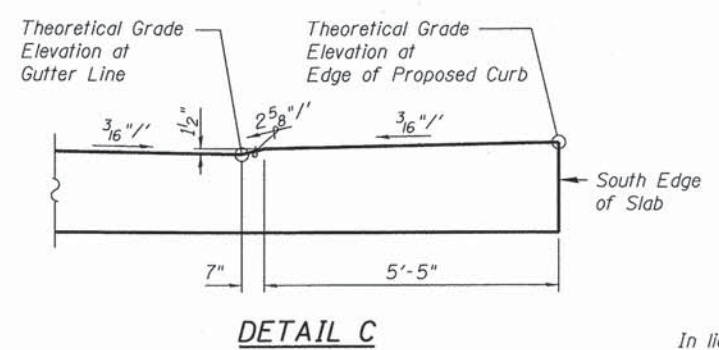
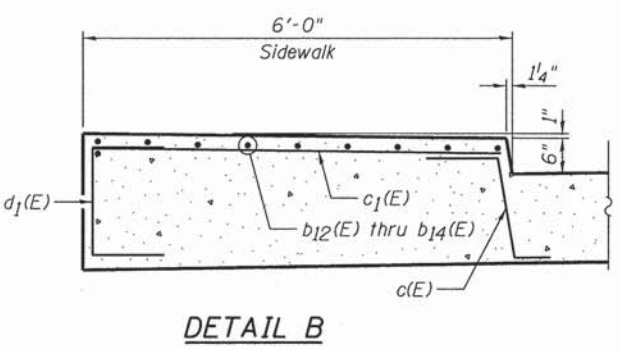
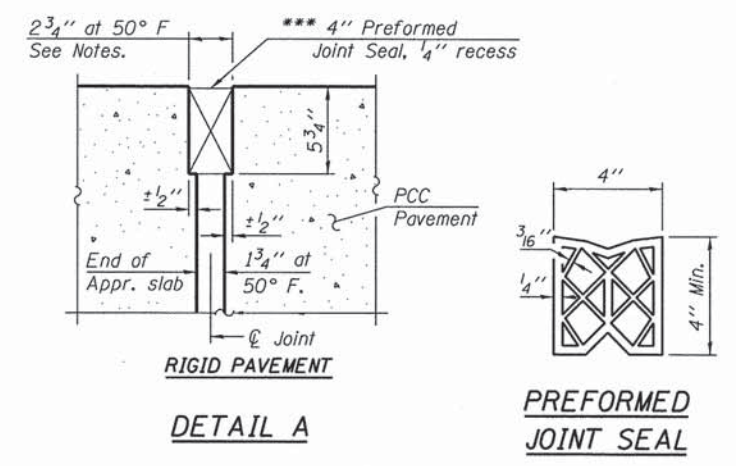
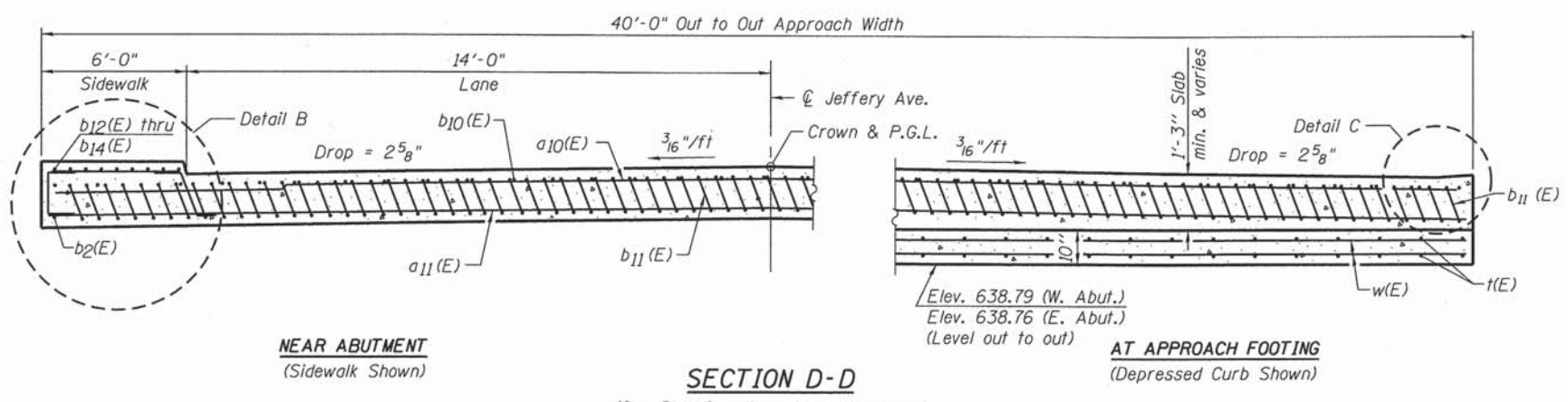
**BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 016-8215**
SHEET NO. S-8 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	28
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

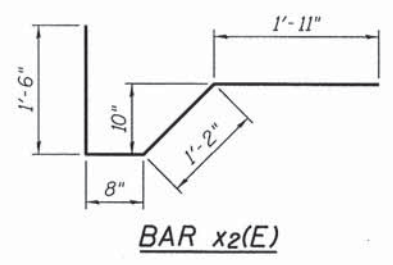
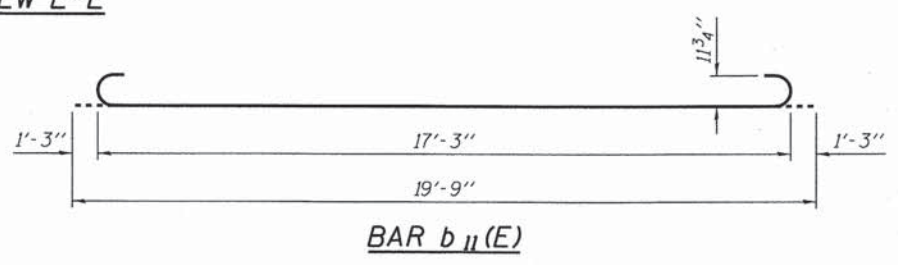
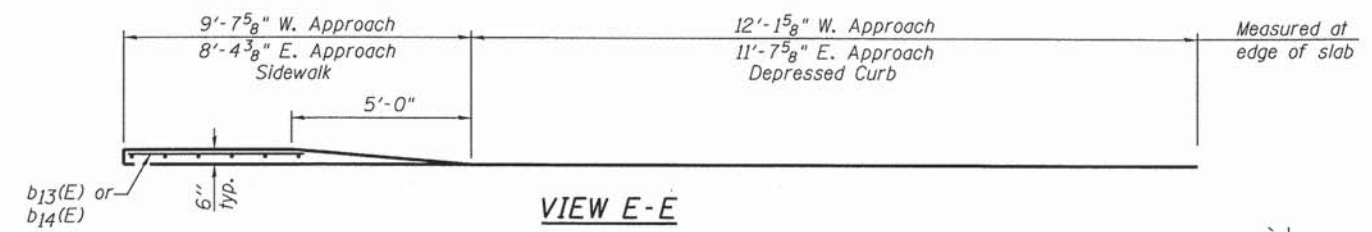


Notes:
 Approach slab concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet S-12 of S-17.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2 of S-17.
 The joint opening shall be determined per Article 520.04 except that on jointless structures the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1/2" for installation purposes.

* Tilt #9 b₁₁(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



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".



**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₁₀ (E)	34	# 4	43'-1"	—
a ₁₁ (E)	62	# 5	43'-1"	—
b ₁₀ (E)	66	# 4	19'-8"	—
b ₁₁ (E)	192	# 9	19'-9"	—
b ₁₂ (E)	14	# 5	19'-8"	—
b ₁₃ (E)	7	# 5	4'-3"	—
b ₁₄ (E)	7	# 5	3'-0"	—
c(E)	51	# 5	3'-1"	┌
c ₁ (E)	55	# 5	5'-8"	—
d ₁ (E)	60	# 5	3'-6"	┌
t(E)	82	# 4	10'-6"	—
w(E)	80	# 5	43'-1"	—
x ₂ (E)	82	# 5	5'-3"	┌
Concrete Superstructure		Cu. Yd.	88.8	
Concrete Structures		Cu. Yd.	26.9	
Reinforcement Bars, Epoxy Coated		Pound	23,200	
Protective Coat		Sq. Yd.	183	
Bridge Deck Grooving		Sq. Yd.	116	

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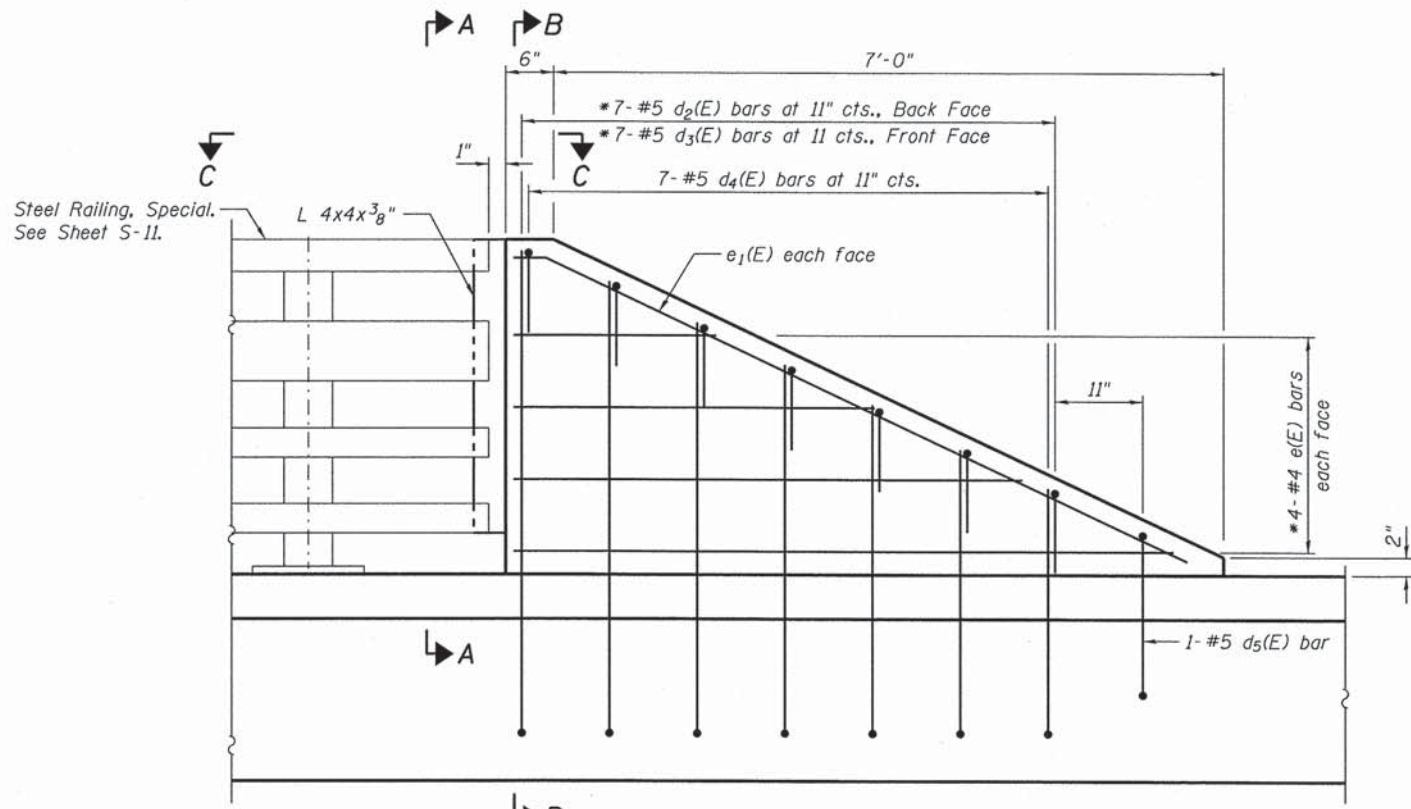


USER NAME = rdonley	DESIGNED - BWS	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

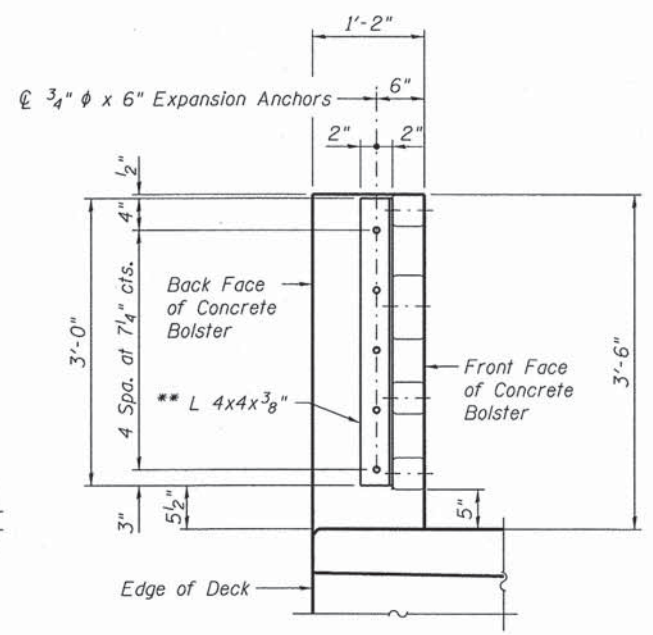
**BRIDGE APPROACH SLAB DETAILS 2
 STRUCTURE NO. 016-8215**
 SHEET NO. S-9 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	29
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



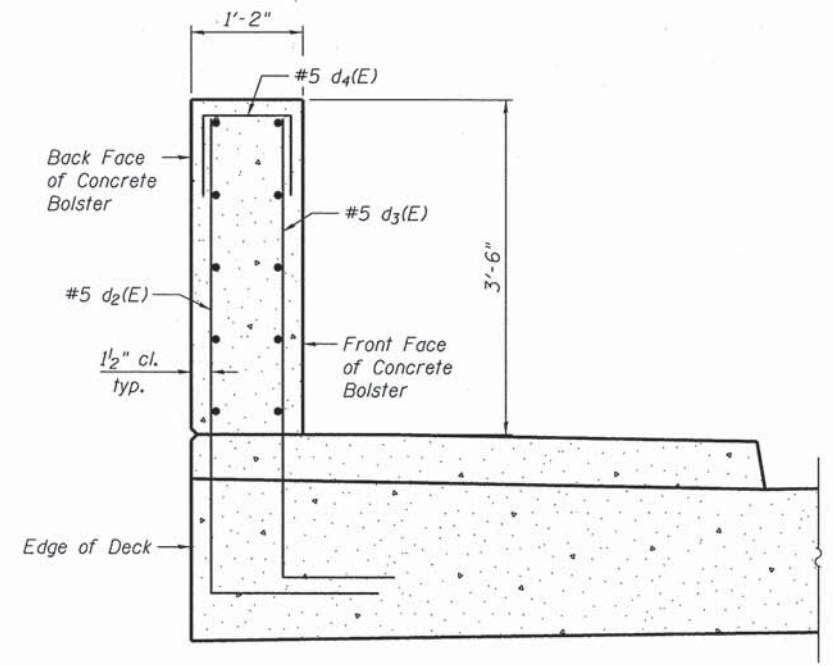
BRIDGE RAILING ELEVATION

* Order $d_2(E)$, $d_3(E)$, and $e(E)$ bars full length. Cut to fit slope.

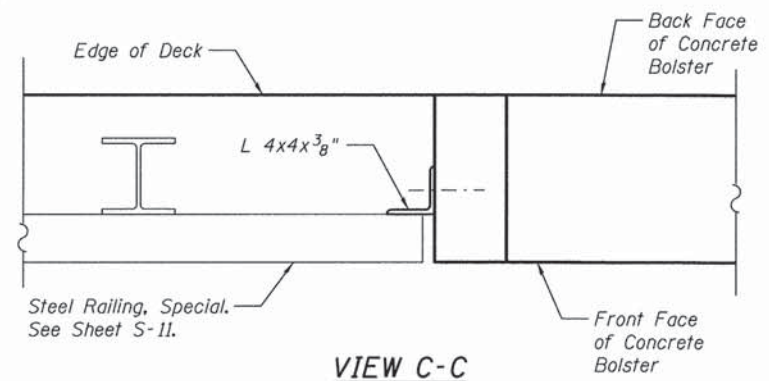


SECTION A-A

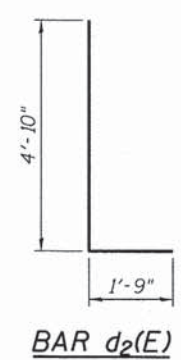
** Cost of Angle and Expansion Anchors included with Steel Railing, (Special)



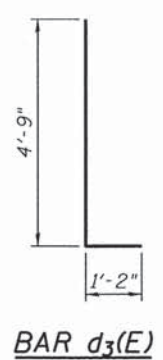
SECTION B-B



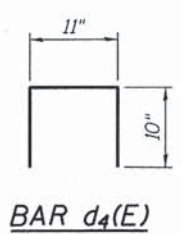
VIEW C-C



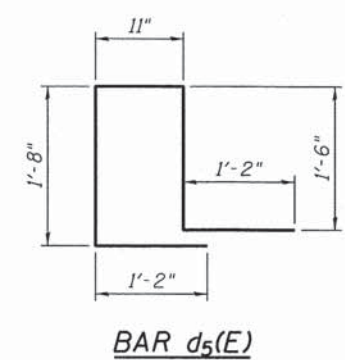
BAR $d_2(E)$



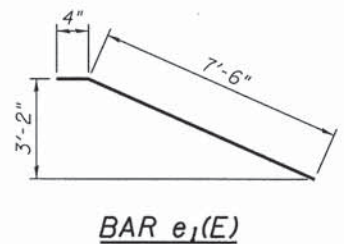
BAR $d_3(E)$



BAR $d_4(E)$



BAR $d_5(E)$



BAR $e_1(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_2(E)$	28	# 5	6'-7"	U
$d_3(E)$	28	# 5	5'-11"	U
$d_4(E)$	28	# 5	2'-7"	U
$d_5(E)$	4	# 5	6'-5"	U
$e(E)$	32	# 4	7'-8"	—
$e_1(E)$	8	# 4	7'-10"	/
Concrete Superstructure			Cu. Yd.	2.6
Reinforcement Bars, Epoxy Coated			Pound	680

NOTE:
All exposed surfaces of the Concrete Bolsters shall receive a Rubbed Finish per Article 503.15(b) of the IDOT Standard Specifications. Cost shall be included in the cost of Concrete Superstructure.

N:\PROJ\0220191\01\Design\Structure\1.CAD\016-8215_10-Pedestrian Railing Bolster.dgn



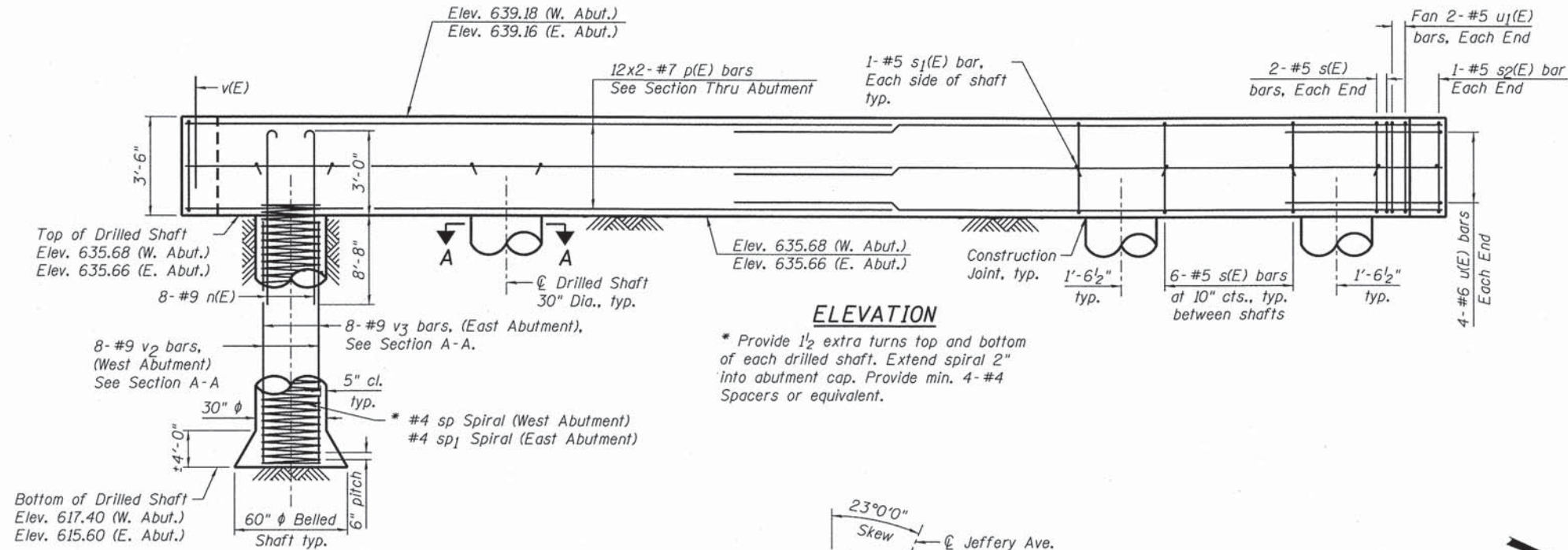
USER NAME = espina
PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 5/5/2014

DESIGNED - BWS
CHECKED - JJH
DRAWN - RCD
CHECKED - JJH
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

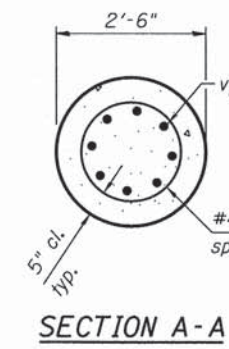
**RAILING BOLSTER DETAILS
STRUCTURE NO. 016-8215**
SHEET NO. S-10 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	30
				CONTRACT NO. 61A34
ILLINOIS FED. AID PROJECT				

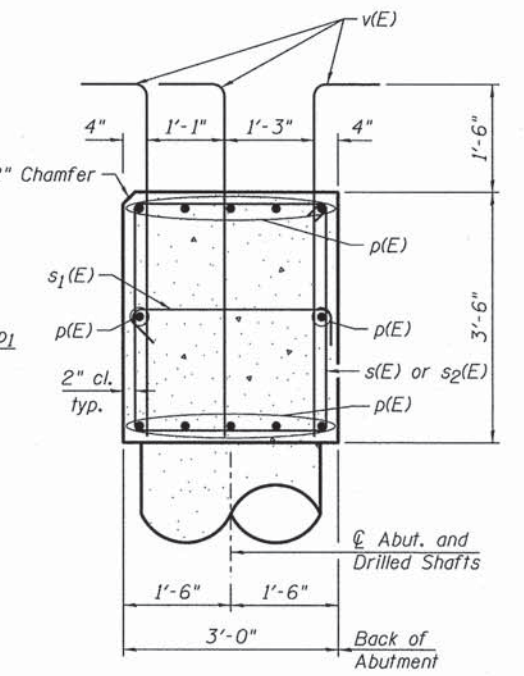


ELEVATION

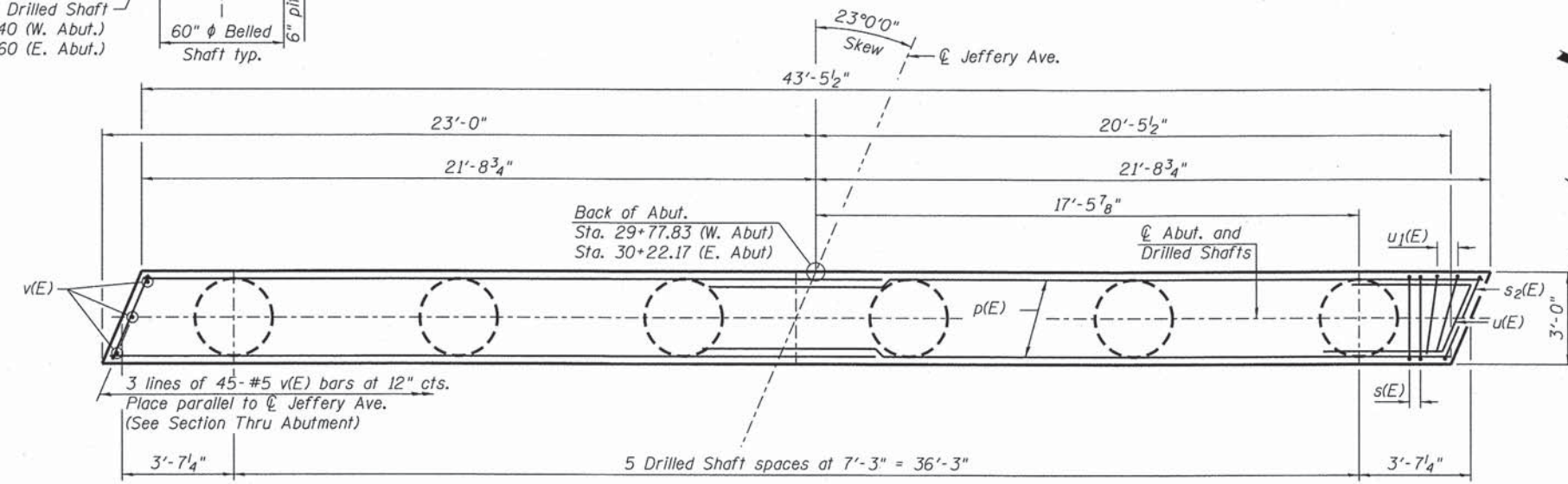
* Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 2" into abutment cap. Provide min. 4-#4 Spacers or equivalent.



SECTION A-A

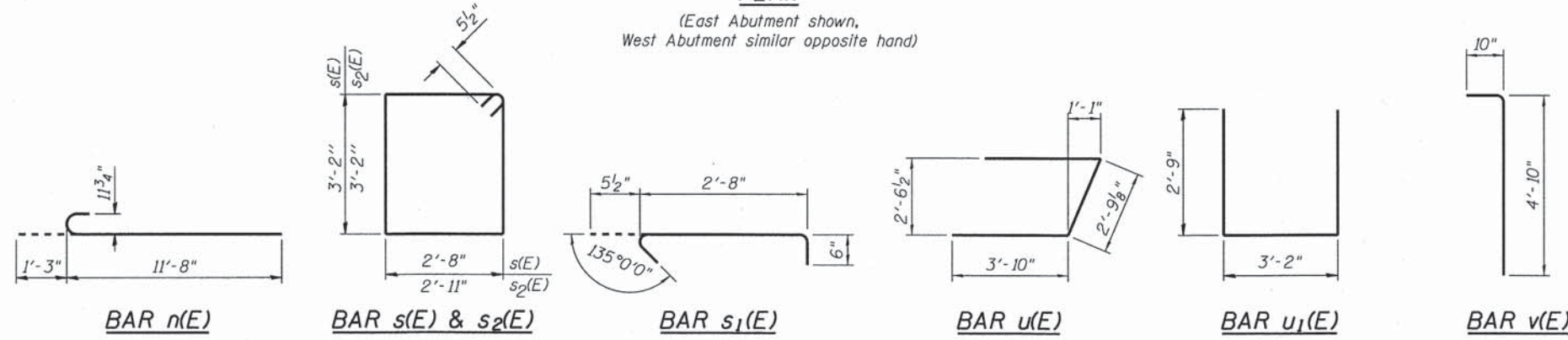


SECTION THRU ABUTMENT
(Dimensions at right angles to abutment.)



PLAN

(East Abutment shown, West Abutment similar opposite hand)



MINIMUM BAR LAP
#7 Bars = 5'-10"

BILL OF MATERIAL
Quantities For Two Abutments

Bar	No.	Size	Length	Shape
n(E)	96	# 9	12'-11"	→
p(E)	48	# 7	24'-5"	—
s(E)	68	# 5	9'-11"	□
s1(E)	24	# 5	3'-8"	↵
s2(E)	4	# 5	10'-2"	□
u(E)	16	# 6	10'-5"	U
u1(E)	8	# 5	8'-8"	U
v(E)	270	# 5	5'-8"	┘
v2	48	# 9	17'-10"	—
v3	48	# 9	19'-7"	—
sp	6	# 4	18'-3"	⋈
sp1	6	# 4	20'-1"	⋈

Item	Unit	Quantity
Reinforcement Bars, Epoxy Coated	Pound	9,370
Reinforcement Bars	Pound	7,850
Structure Excavation	Cu. Yd.	242
Concrete Structures	Cu. Yd.	33.8
Drilled Shaft in Soil	Cu. Yd.	53.7
Pipe Underdrain for Structures, 4"	Foot	108
Geocomposite Wall Drain	Sq. Yd.	34
Granular Backfill for Structures	Cu. Yd.	150

** Length is height of spiral.

NOTES:

- For details of existing abutment removal, see sheet S-3.
- Temporary casing is recommended for the drilled shafts due to the water table and the presence of sand. Temporary casing shall only be advanced to within 2' of the top of the bell. See Standard Specifications and for Geotechnical Report details.
- Minimum lap for Spirals is 2'-7".

N:\PROJECTS\2012\12-Abutment\016-8215-12-Abutment_Details.dgn

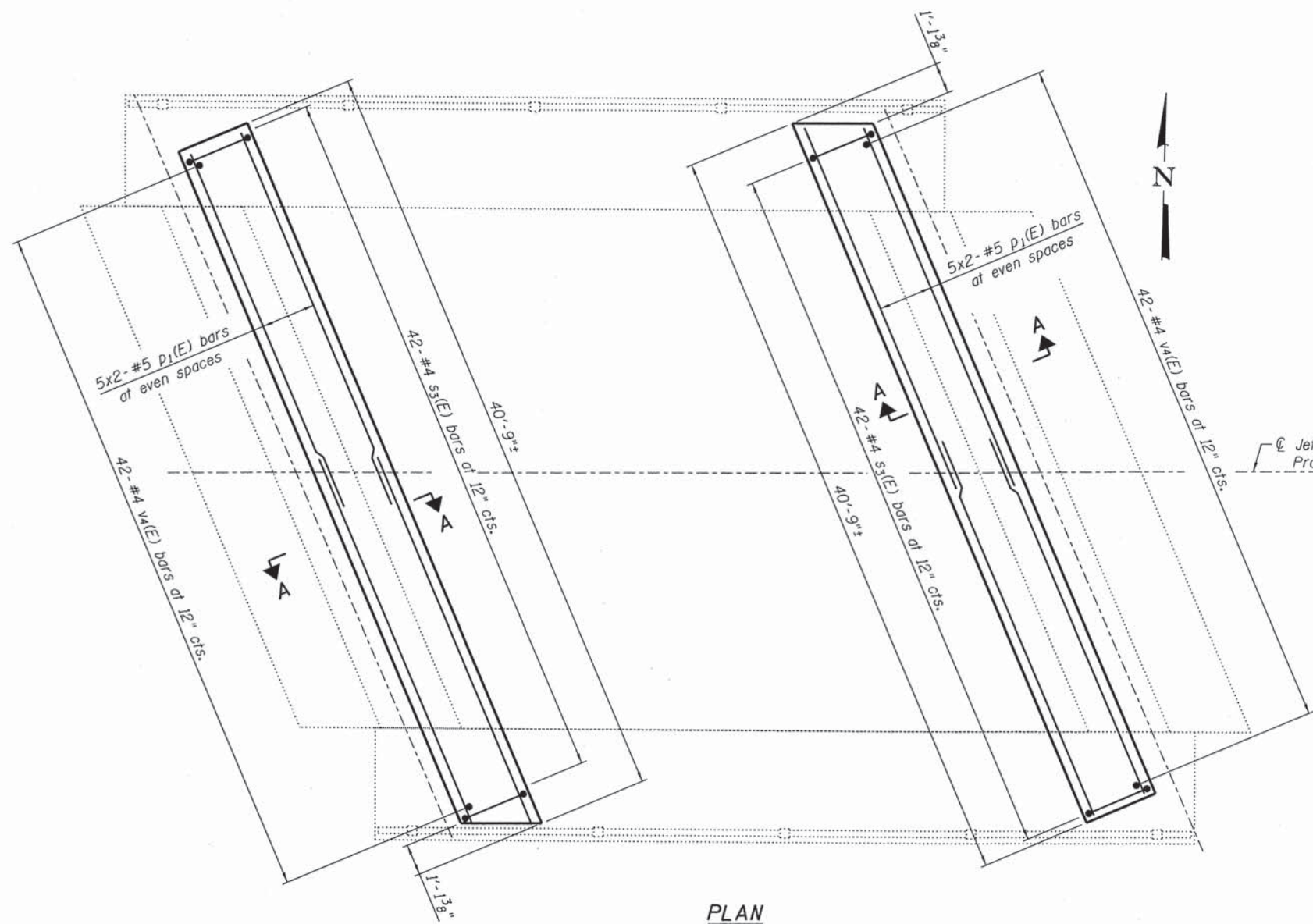


USER NAME = rdonley	DESIGNED - BWS	REVISED -
PLOT SCALE = 2.666667' / in.	CHECKED - JJH	REVISED -
PLOT DATE = 4/14/2014	DRAWN - RCD	REVISED -
	CHECKED - JJH	REVISED -

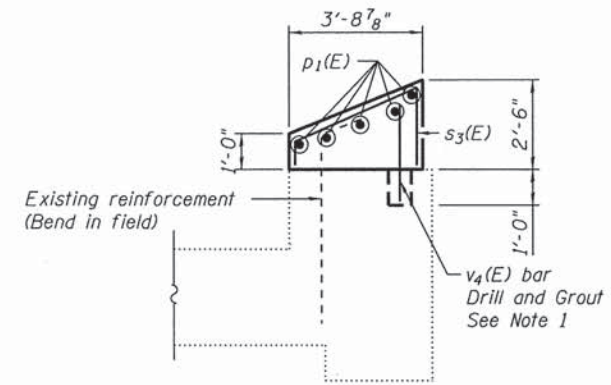
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS 1
STRUCTURE NO. 016-8215
SHEET NO. S-12 OF S-17 SHEETS

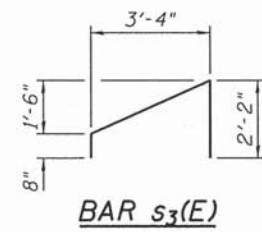
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	32
CONTRACT NO. 61A34			ILLINOIS FED. AID PROJECT	



PLAN



SECTION A-A
(Horiz. dim. @ Rt. L's)



BAR s3(E)

Jeffery Ave. & Profile Grade

MINIMUM BAR LAP:
#5 Bars = 3'-8"

NOTE:

1. Drill and grout per section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p ₁ (E)	20	#5	22'-1"	—
s ₃ (E)	84	#4	6'-5"	↙
v ₄ (E)	84	#4	3'-3"	—
Concrete Structures			Cu. Yd.	19.5
Reinforcement Bars, Epoxy Coated			Pound	1,010

N:\PROJ\0220191\01\Design\Structural\CAD\016-8215_13-Abutment_Details_2.dgn

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CONSULTING ENGINEERS
805 North Cumberland Avenue
Suite 412 Chicago, Illinois 60606
Tel: 773.778.4000
Fax: 773.778.4010
Email: Chicago@clorba.com

USER NAME = rdonley	DESIGNED - BWS	REVISED -
PLOT SCALE = 4.000000' / 1"	CHECKED - JJH	REVISED -
PLOT DATE = 3/24/2014	DRAWN - RCD	REVISED -
	CHECKED - JJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS 2
STRUCTURE NO. 016-8215
SHEET NO. S-13 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	33
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



File No. 20504 **BORING LOG** B-1
 Client Baxter & Woodman, Inc. Sheet 1 of 4
 Comments Sta. 29+60, 6' N. of CL Project Jeffery Avenue Bridge Date 2/27/12
 Location Wheeling, IL Drilled By AC
 S.N. 016-8211 Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
640.9'	Concrete - 6.25"											
639.4'	Brown sand & gravel,damp					8						
	Limestone,some crushed asphalt, damp,medium dense - Fill		1	SS	14"	7	17		5.4			
637.9'	Brown-gray clay & silt,trace sand & gravel,damp,tough		2			5		1.5	9.4			
	Gray fine-medium sand,trace coarse sand,gravel & silt,damp- saturated,medium dense		3	SS	18"	6	12		16.6			
633.9'	Gray clay,some silt,trace sand & gravel,damp,hard		4	SS	18"	5	10	3.5	20.9	110.2	5.1	
632.4'	Gray silt,some clay,trace fine sand,damp,medium dense		5	SS	18"	5	10		20.3			
629.9'	Gray fine-medium sand,some coarse sand & gravel,trace silt,damp- very damp,medium dense		6	SS	18"	8	16		16.5			
626.9'	Gray clay,some silt,trace sand & gravel,damp,very tough to tough		7	SS	18"	6	10	2.5	14.5	124.5	2.5	
622.9'	Gray silt,some clay,trace sand & gravel,damp,dense		8	SS	18"	8	13	2.0	14.6	124.8	1.4	
620.9'			9	SS	18"	8	13					
			10	SS	15"	21	40		10.9			

Water Level — depth, ft. elev., ft.
 - while drilling: 6.5
 - after drilling: 31.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - Unconfined compressive strength, tons./sq. ft.

F-111b



File No. 20504 **BORING LOG** B-1
 Client Baxter & Woodman, Inc. Sheet 2 of 4
 Comments _____ Project Jeffery Avenue Bridge Date 2/27/12
 Location Wheeling, IL Drilled By AC
 Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
619.9'	Gray silt,some clay,trace sand & gravel,damp,dense					12						
	Gray clay,some silt,trace sand & gravel,damp,very hard to hard		11	SS	18"	20	38	4.5+	14.6	122.4	8.0	
			12	SS	18"	12	21	4.5+	18.2	119.8	6.8	
			13	SS	18"	13	23	4.5+	16.8	117.0	6.0	
			14	SS	18"	11	18	4.5+	16.8	117.7	6.0	
607.4'	Gray clay,some silt,trace sand & gravel,damp,very tough to hard		15	SS	18"	9	17	4.5+	22.4	108.3	2.8	
600.9'			16	SS	18"	14	27	4.5+	20.3	113.4	4.1	

Water Level — depth, ft. elev., ft.
 - while drilling: 6.5
 - after drilling: 31.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - Unconfined compressive strength, tons./sq. ft.

F-111b

N:\PROJ\10020101\01\Design\Structure\CAD\016-8215-14-Soil\Boring_Log_1.dgn



USER NAME = rdnley	DESIGNED - BWS	REVISED -
PLOT SCALE = 8 1/4" = 1'	CHECKED - JQH	REVISED -
PLOT DATE = 3/24/2014	DRAWN - RCD	REVISED -
	CHECKED - JQH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG 1
STRUCTURE NO. 016-8215

SHEET NO. S-14 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	34
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



File No. 20504 BORING LOG B-2

Client Baxter & Woodman, Inc. Sheet 1 of 4
 Comments Sta. 30+40, 6' S. of CL Project Jeffery Avenue Bridge Date 2/22/12
 Location Wheeling, IL Drilled By AC
 S.N. 016-8211 Equipment CME 45B H.A. Other Logged By DA

Elev. ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
	Concrete - 6.0'											
639.1'	Brown fine-medium sand, some coarse sand & gravel, damp, medium dense	1				7			5.7			
638.1'	Limestone, damp, medium dense - Fill	2	SS	15"	10		17		6.5			
636.1'	Brown-gray silt, some clay, trace sand & gravel, damp, loose	5	3	SS	18"	5	9		17.8			
634.6'	Brown fine-medium sand, trace coarse sand & gravel, damp-very damp, loose	4				4			10.7			
	Gray clay, some silt, trace sand & gravel, damp, very tough	5	SS	18"	3	6	2.0		24.2	107.8	2.7	
						5						
						6						
		10	6	SS	18"	8	14	2.25	17.3	116.5	2.2	
629.6'						9						
	Gray silt, some clay, trace sand & gravel, damp, dense to medium dense	7				12		4.0	22.4	105.5	3.6	
		8	SS	18"	20	32			16.5			
						4						
626.1'		15	9	SS	18"	6	12		15.8			
	Gray clay, some silt, trace sand & gravel, damp, tough					4						
						5						
		10	SS	18"	6	11	1.5		14.9	127.3	1.8	
622.6'						7						
	Gray silt, some clay, trace sand & gravel, damp, medium dense					12						
621.1'		20	11	SS	18"	17	29		9.6			

Water Level - depth, ft. elev., ft.
 - while drilling: 15.0
 - after drilling: 35.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu.ft.
 Qu - Unconfined compressive strength, tons/ sq. ft.

F-111b



File No. 20504 BORING LOG B-2

Client Baxter & Woodman, Inc. Sheet 2 of 4
 Comments _____ Project Jeffery Avenue Bridge Date 2/22/12
 Location Wheeling, IL Drilled By AC
 Equipment CME 45B H.A. Other Logged By DA

Elev. ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray silt, some clay, trace sand & gravel, damp, dense						22					
							19					
618.1'		12	SS	18"	21	40			10.1			
	Gray clay & silt, trace sand, damp, hard					7						
						8						
615.6'		25	13	SS	18"	11	19	4.5+	19.0	107.4	4.8	
	Gray clay, some silt, trace sand & gravel, damp, hard					5						
						8						
		14	SS	18"	10	18	4.5+	21.4	106.3	4.9		
						5						
611.6'		15				9		4.5+	21.1	106.9	4.3	
	Gray fine sand, some silt, very damp, medium dense	30	16	SS	18"	14	23		19.9			
610.1'						7						
	Gray clay, some silt, trace sand & gravel, damp, hard					12						
						7						
606.6'		17				12		4.5+	18.3	111.9	4.8	
606.1' (a)	see page 4 of 4	35	18	SS	18"	13	25		17.9			
	Gray clay, some silt, trace sand & gravel, damp, very tough					3						
						4						
601.1'		40	19	SS	18"	5	9	1.5	26.4	98.8	2.6	

Water Level - depth, ft. elev., ft.
 - while drilling: 15.0
 - after drilling: 35.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu.ft.
 Qu - unconfined compressive strength, tons/ sq. ft.

F-111b

N:\PROJ\00220191\01\Design\Structural\CAD\016-8215_16-Soil\Boring_Log_3.dgn



USER NAME = rdonley	DESIGNED - BWS	REVISED -
PLOT SCALE = 0.1" = 1'	CHECKED - JJH	REVISED -
PLOT DATE = 3/24/2014	DRAWN - RCD	REVISED -
	CHECKED - JJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG 3
STRUCTURE NO. 016-8215
SHEET NO. S-16 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	36
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



File No. 20504 BORING LOG B-2

Client Baxter & Woodman, Inc. Sheet 3 of 4

Comments _____ Project Jeffery Avenue Bridge Date 2/22/12

Location Wheeling, IL Drilled By AC

Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	40	S	T	R	B	N	Pen.	W	Uw	Qu
599.1'	Gray clay, some silt, trace sand & gravel, damp, tough											
						9						
						9						
		45	20	SS	18"	10	19	3.0	22.3	106.9	3.6	
594.1'	Gray clay & silt, trace sand & gravel, damp, very tough											
						3						
						4						
		50	21	SS	18"	5	9	1.5	26.2	99.7	1.7	
589.1'	Gray clay, some silt, trace sand & gravel, damp, tough											
						15						
						26						
		55	22	SS	18"	28	54		16.7			
582.1'	Gray silt, some clay, trace fine sand, damp, dense											
						14						
						27						
		60	23	SS	18"	28	55		16.4			

Water Level --- depth, ft. elev., ft.
 - while drilling: 15.0
 - after drilling: 35.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu. ft.
 Qu - unconfined compressive strength, tons/ sq. ft.

F-111b



File No. 20504 BORING LOG B-2

Client Baxter & Woodman, Inc. Sheet 4 of 4

Comments _____ Project Jeffery Avenue Bridge Date 2/22/12

Location Wheeling, IL Drilled By AC

Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	60	S	T	R	B	N	Pen.	W	Uw	Qu
579.1'	Gray silt, trace fine sand & clay, damp, dense											
		65	24	SS	18"	7	13	2.75	20.3	115.0	2.3	
574.1'	Gray clay, some silt, trace sand & gravel, damp, very tough											
						7						
						6						
		70	25	SS	18"	12	21		15.1			
567.1'	Gray silt, some clay, trace sand & gravel, damp, medium dense											
						15						
						45						
		75	26	SS	18"	46	91		18.9			
566.1'	Gray silt, trace fine sand & clay, damp, very dense											
	End of Boring											
	(a) Gray silt, some clay, trace fine sand, damp, medium dense											
		80										

Water Level --- depth, ft. elev., ft.
 - while drilling: 15.0
 - after drilling: 35.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu. ft.
 Qu - unconfined compressive strength, tons/ sq. ft.

F-111b

N:\PROJ\0022191\01\Design\Structure\CAD\016-8215-17-Soil_Boring_Log_4.dgn



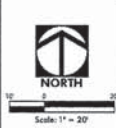
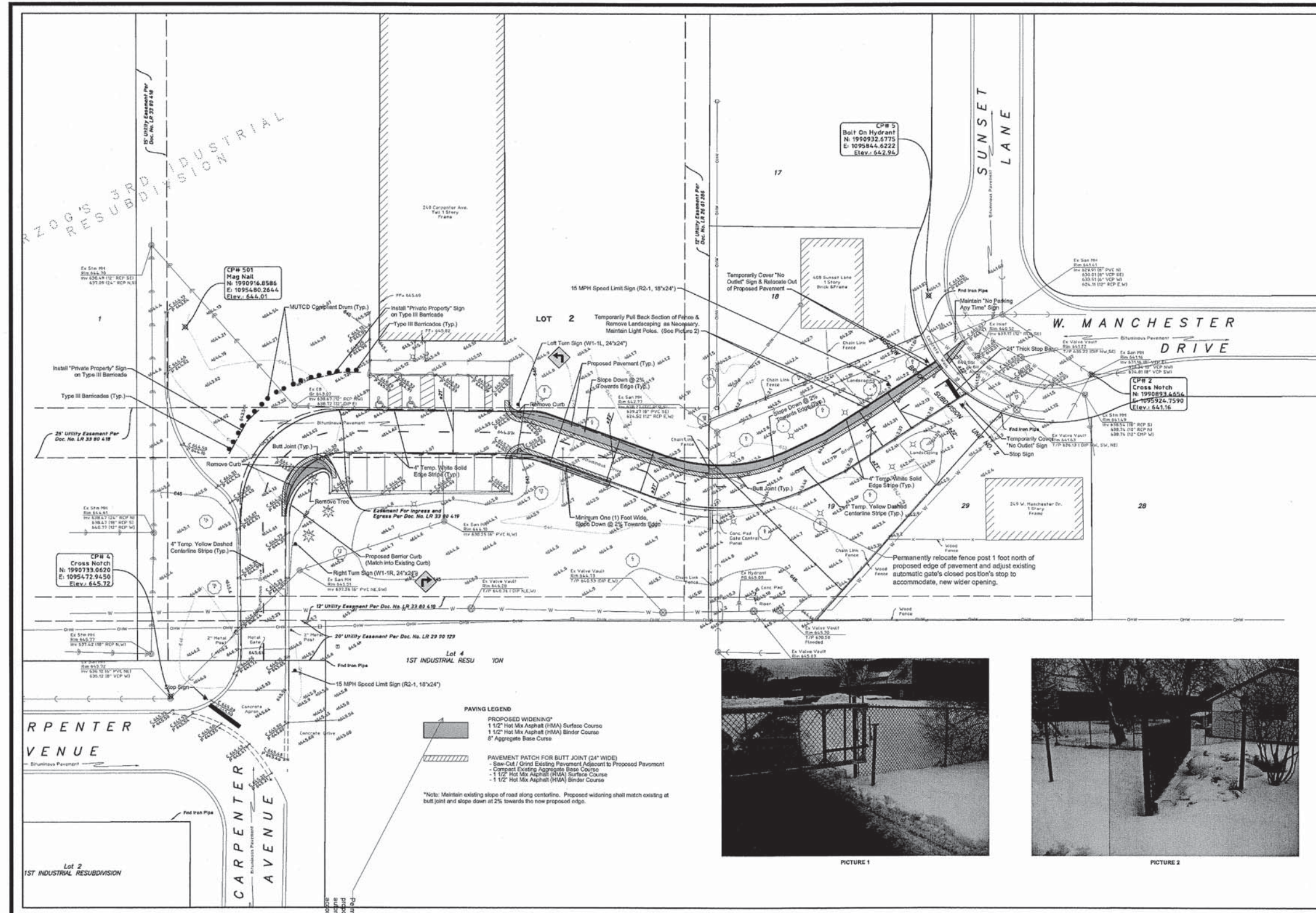
USER NAME = rdanley	DESIGNED - BWS	REVISIONS -
PLOT SCALE = 0.1" = 1' / in.	CHECKED - JH	REVISIONS -
PLOT DATE = 3/24/2014	DRAWN - RCD	REVISIONS -
	CHECKED - JH	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG 4
STRUCTURE NO. 016-8215

SHEET NO. S-17 OF S-17 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	37
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



HAFGER ENGINEERING
 CONSULTING ENGINEERS
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 Illinois Professional Engineer License No. 184-0201132
 www.hafgerengineering.com

SITE PLAN
WABASH PROPERTY
TEMPORARY ACCESS ROAD
 WHEELING, ILLINOIS

Project Manager: L.A.K.
 Engineer: J.O.T.
 Date: 2013-10-08
 Project No.: 13015
 Sheet: 2/3

FOR INFORMATION ONLY

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60655
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = ntumbov	DESIGNED -	REVISED -
PLOT SCALE = 1:8000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/24/2014	CHECKED -	REVISED -
	DATE = 3/24/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
 DETAILS

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

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	38
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				

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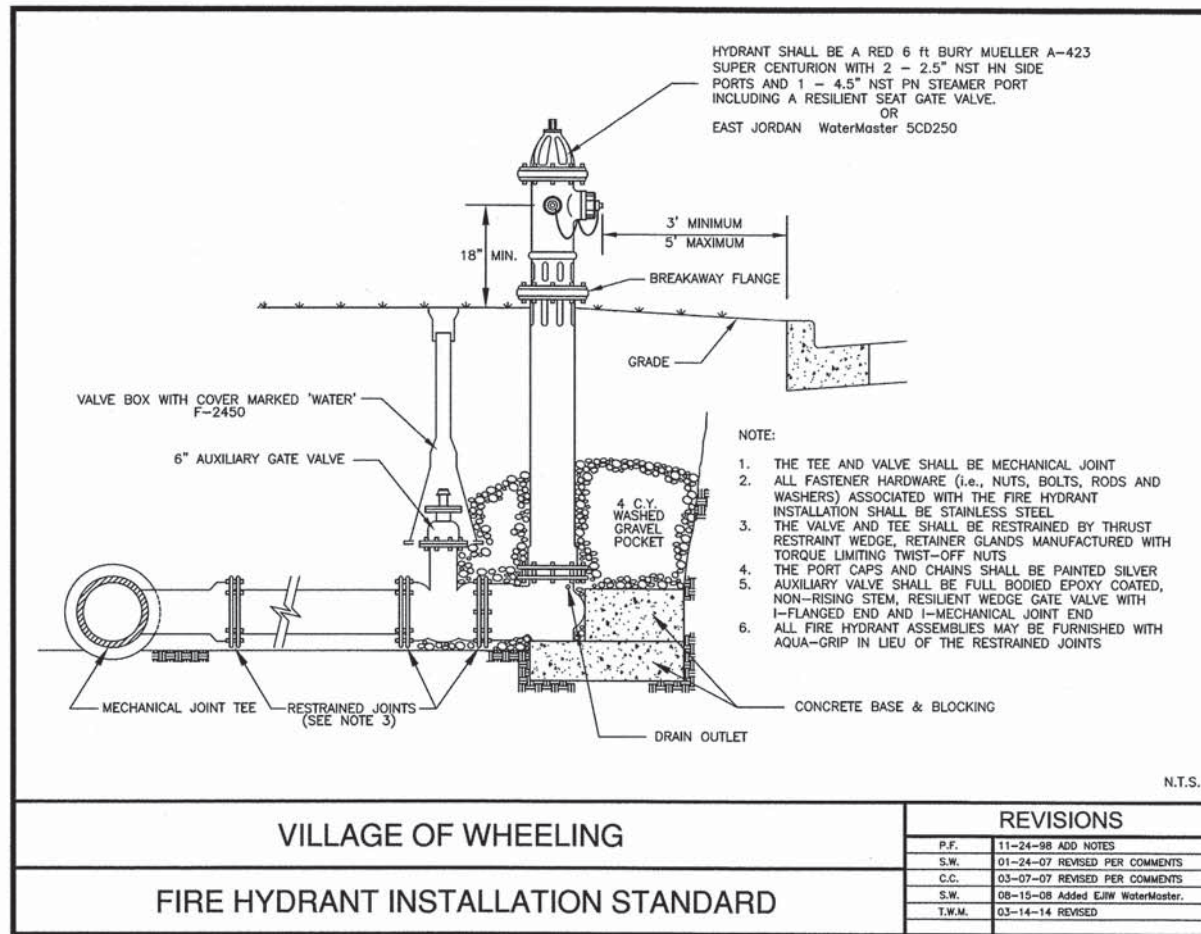
		<p>④ PAVEMENT DEPTH OR 9" MIN.</p> <p>① TO BE CENTERED OR SET AS REQUIRED IN FIELD.</p> <p>② 1/2" DIA. STEEL TIE BAR AT 2'-6" CENTERED WHEN PAVEMENT IS CONCRETE. OMIT WHEN ADJACENT PAVEMENT IS FLEXIBLE.</p> <p>③ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).</p> <p>NOTES: PROVIDE DEPRESSED CURBS AT DRIVEWAYS, CROSSWALKS, AND SIDEWALKS, ETC. ALL CONCRETE SHALL HAVE 4,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO I.D.O.T. STANDARD 608001-01 UNLESS OTHERWISE NOTED HEREIN.</p>						
CURB AND GUTTER STANDARD		<table border="1"> <tr> <th>VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS</th> <th>REVISIONS</th> </tr> <tr> <td>S.W. 08-10-00 AUTOCAD FILE</td> <td></td> </tr> <tr> <td>C.J.C. 11-27-07 AUTOCAD FILE</td> <td></td> </tr> </table>	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS	S.W. 08-10-00 AUTOCAD FILE		C.J.C. 11-27-07 AUTOCAD FILE	
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS							
S.W. 08-10-00 AUTOCAD FILE								
C.J.C. 11-27-07 AUTOCAD FILE								

DRIVEWAY STANDARD											
<table border="1"> <tr> <th>VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS</th> <th>REVISIONS</th> </tr> <tr> <td>S.W. 02-09-04 REVISED PER R.O.</td> <td></td> </tr> <tr> <td>C.J.C. 11-27-07 AUTOCAD FILE</td> <td></td> </tr> <tr> <td>K.R.G. 12-17-08 APRON AGG. THICK ROADWAY</td> <td></td> </tr> <tr> <td>K.R.G. 03-29-10 REVISED GRADE 9</td> <td></td> </tr> </table>		VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS	S.W. 02-09-04 REVISED PER R.O.		C.J.C. 11-27-07 AUTOCAD FILE		K.R.G. 12-17-08 APRON AGG. THICK ROADWAY		K.R.G. 03-29-10 REVISED GRADE 9	
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS										
S.W. 02-09-04 REVISED PER R.O.											
C.J.C. 11-27-07 AUTOCAD FILE											
K.R.G. 12-17-08 APRON AGG. THICK ROADWAY											
K.R.G. 03-29-10 REVISED GRADE 9											

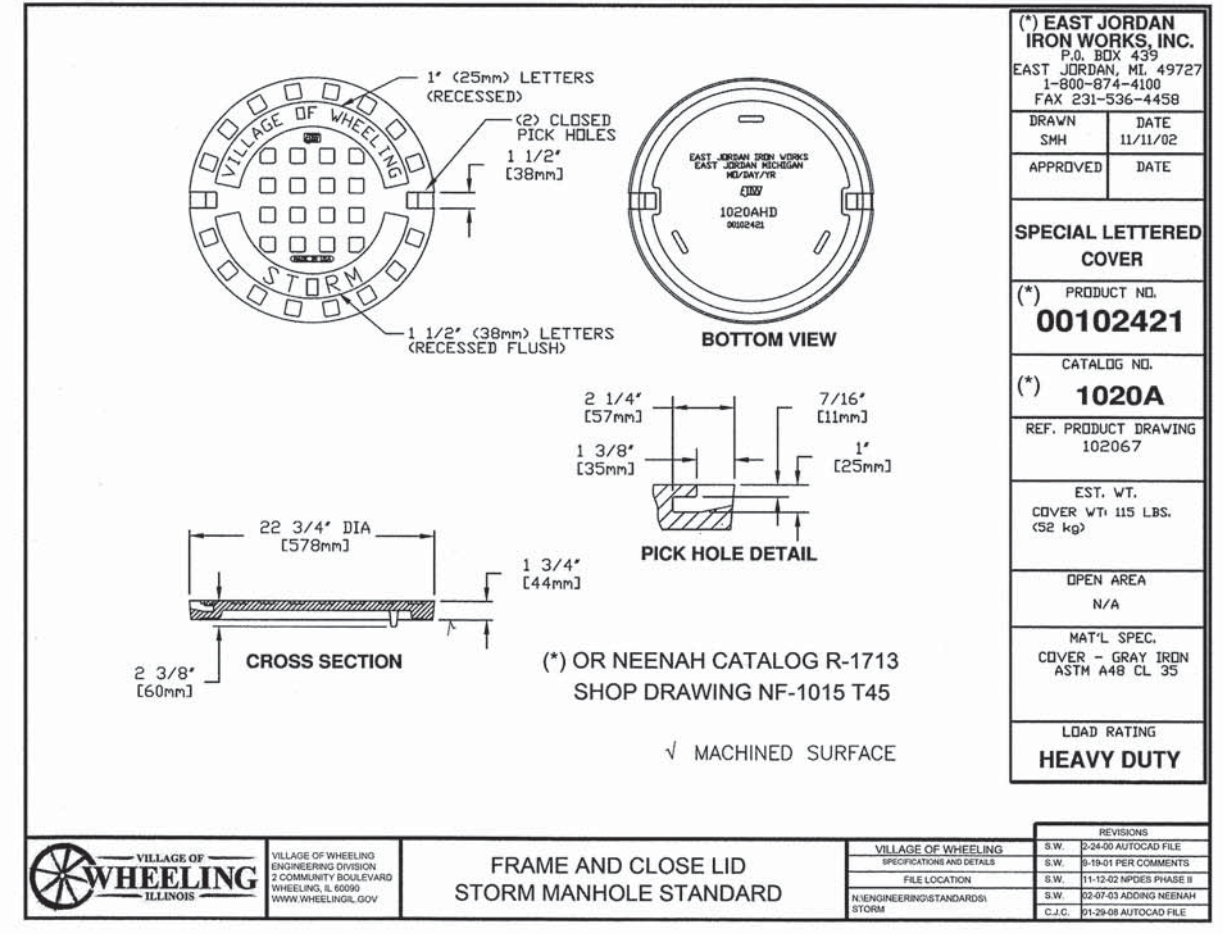
PUBLIC SIDEWALK STANDARDS											
<p>NOTE:</p> <ol style="list-style-type: none"> TO BE FORMED WITH 2" x 6" BOARDS OR BY 5" WIDE STEEL FORMS. TOOLED JOINTS SHALL BE 1/2" AT 5' CENTERS. EXPANSION JOINTS SHALL BE 3/4" THICK X 5" WIDE BITUMINOUS IMPREGNATED FIBERBOARD AT 30' CENTERS, AT DRIVEWAYS AND OTHER CONCRETE JOINTS. PROVIDE BROOM FINISH EXCEPT AT TRUNCATED DOME. D = 6" AT RESIDENTIAL DRIVEWAY D = 8" AT COMMERCIAL/INDUSTRIAL DRIVEWAYS SIDEWALK RAMPS AT DRIVEWAYS SHALL BE BUILT PER THE VILLAGE STANDARD. THE CONCRETE SHALL BE 6 BAG MIX AND SHALL NOT CONTAIN CHLORIDE OR FLY ASH. THE COMPRESSIVE STRENGTH SHALL MEET OR EXCEED I.D.O.T.'S REQUIREMENTS FOR "SI" CONCRETE (MINIMUM 3500 PSI @ 14 DAYS) PROVIDE DEPRESSED CURBS AT ALL WALKS, 5" MINIMUM WIDTH ON DEPRESSION. ALL SIDEWALKS, CURB/GUTTER AND PAVEMENT TO BE SAW-CUT AS REQUIRED. MAXIMUM SLOPE OF RAMP NOT TO EXCEED 8%. DRIVEWAY APRON REMOVAL & REPLACEMENT SHALL INCLUDE THE INSTALLATION OF A TRUNCATED DOME HANDICAPPED SIDEWALK RAMP ON BOTH SIDES OF THE APRON UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER. TRUNCATED DOME CONSTRUCTION FOR DETECTABLE WARNINGS SHALL BE ARMOR-TILE TACTILE SYSTEMS FEDERAL #22144, BRICK RED AND SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE I.D.O.T. STANDARDS. 											
<table border="1"> <tr> <th>VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS</th> <th>REVISIONS</th> </tr> <tr> <td>S.W. 02-09-06 AS PER R.O.</td> <td></td> </tr> <tr> <td>K.R.G. 03-11-06 AS PER T.W.M.</td> <td></td> </tr> <tr> <td>C.J.C. 11-27-07 AUTOCAD FILE</td> <td></td> </tr> <tr> <td>C.J.C. 08-09-08 AS PER K.R.G.</td> <td></td> </tr> </table>		VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS	S.W. 02-09-06 AS PER R.O.		K.R.G. 03-11-06 AS PER T.W.M.		C.J.C. 11-27-07 AUTOCAD FILE		C.J.C. 08-09-08 AS PER K.R.G.	
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS										
S.W. 02-09-06 AS PER R.O.											
K.R.G. 03-11-06 AS PER T.W.M.											
C.J.C. 11-27-07 AUTOCAD FILE											
C.J.C. 08-09-08 AS PER K.R.G.											

TRENCH BACKFILL STANDARD												
<p>NOTES:</p> <ol style="list-style-type: none"> BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE 8 OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK EXCAVATED MATERIAL MAY BE USED IN NON-PAVED AREAS CA-11 OR CA-13 STONE OR OTHER APPROVED SELECT BACKFILL. TAMPED INTO PLACE TO SPRING LINE OF PIPE. CA-11 OR CA-13 STONE OR OTHER APPROVED SELECT BACKFILL. TAMPED TO 12" MINIMUM ABOVE TOP OF PIPE. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS. MAXIMUM TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET 												
<table border="1"> <tr> <th>VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS</th> <th>REVISIONS</th> </tr> <tr> <td>S.W. 6-1-00 AUTOCAD FILE</td> <td></td> </tr> <tr> <td>S.W. 9-18-01 PER COMMENTS</td> <td></td> </tr> <tr> <td>S.W. 11-19-04 NO POLY WRAP GENERAL</td> <td></td> </tr> <tr> <td>C.J.C. 01-23-08 AUTOCAD FILE</td> <td></td> </tr> </table>			VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS	S.W. 6-1-00 AUTOCAD FILE		S.W. 9-18-01 PER COMMENTS		S.W. 11-19-04 NO POLY WRAP GENERAL		C.J.C. 01-23-08 AUTOCAD FILE	
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS											
S.W. 6-1-00 AUTOCAD FILE												
S.W. 9-18-01 PER COMMENTS												
S.W. 11-19-04 NO POLY WRAP GENERAL												
C.J.C. 01-23-08 AUTOCAD FILE												

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REVISIONS	
P.F.	11-24-98 ADD NOTES
S.W.	01-24-07 REVISED PER COMMENTS
C.C.	03-07-07 REVISED PER COMMENTS
S.W.	08-15-08 Added EJW WaterMaster.
T.W.M.	03-14-14 REVISED



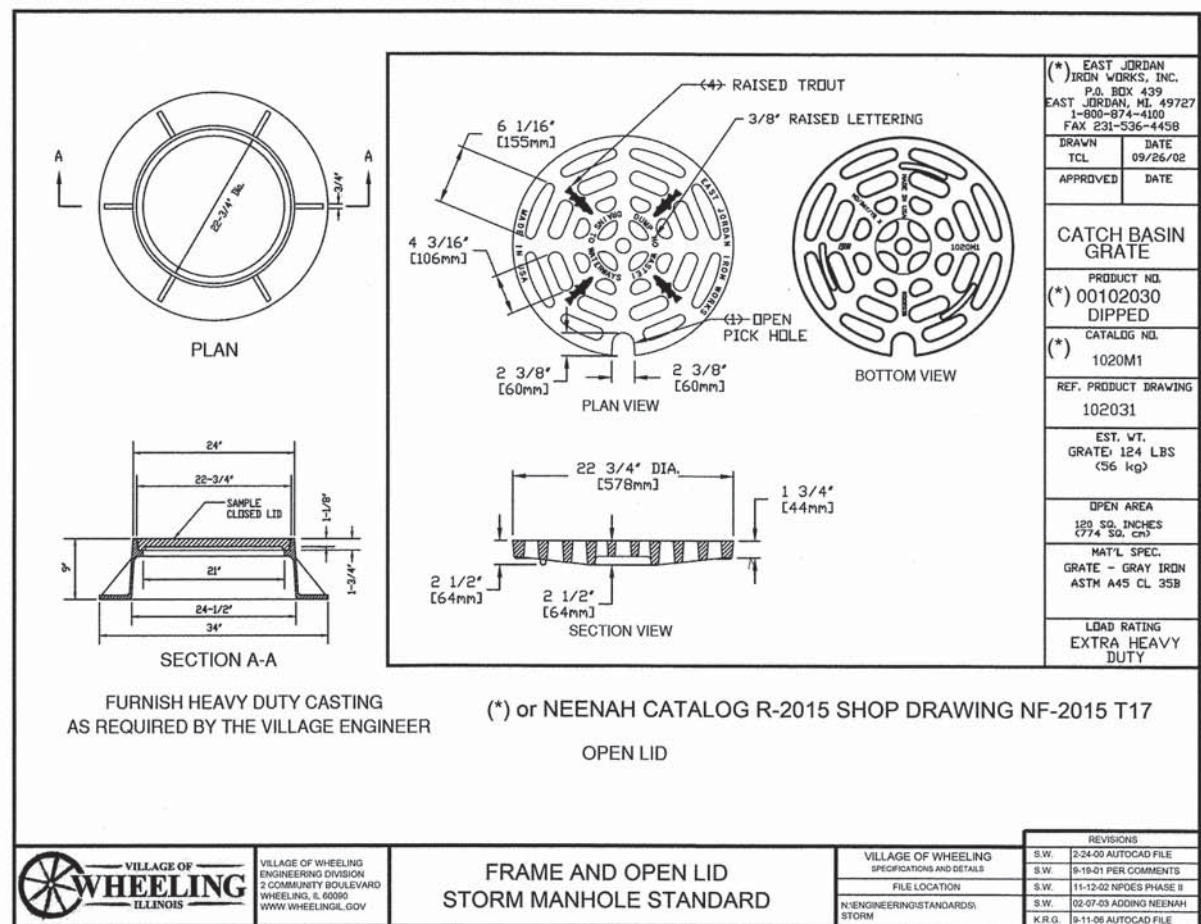
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DRAWN SMH	DATE 11/11/02
APPROVED	DATE
SPECIAL LETTERED COVER	
(*) PRODUCT NO. 00102421	
CATALOG NO. (*) 1020A	
REF. PRODUCT DRAWING 102067	
EST. WT. COVER WT. 115 LBS. (52 kg)	
OPEN AREA N/A	
MAT'L SPEC. COVER - GRAY IRON ASTM A48 CL 35	
LOAD RATING HEAVY DUTY	



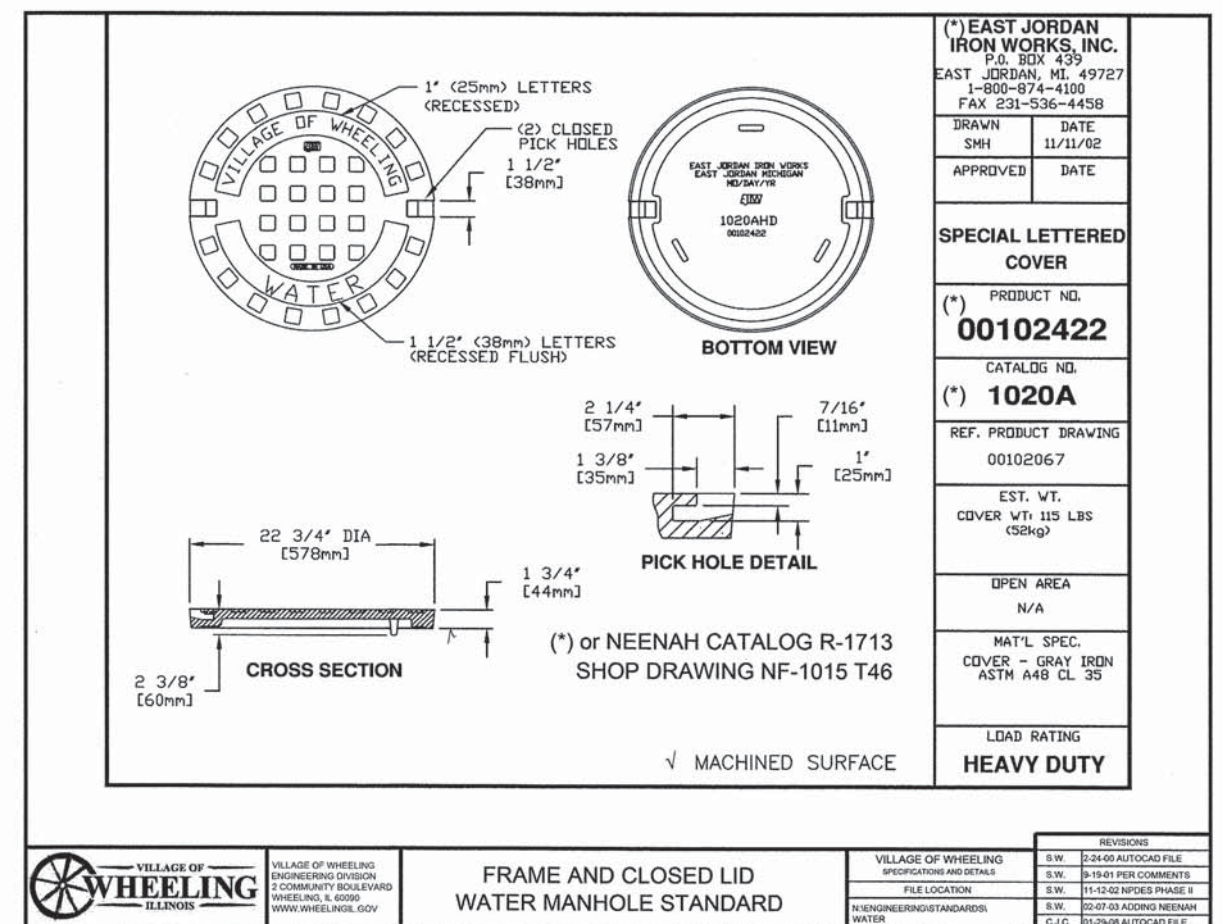
VILLAGE OF WHEELING
ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS
FILE LOCATION
N/ENGINEERING/STANDARDS/ STORM

REVISIONS	
S.W.	2-24-00 AUTOCAD FILE
S.W.	9-19-01 PER COMMENTS
S.W.	11-12-02 NPDES PHASE II
S.W.	02-07-03 ADDING NEENAH
C.J.C.	01-29-08 AUTOCAD FILE



(*) EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4458	
DRAWN TCL	DATE 09/26/02
APPROVED	DATE
CATCH BASIN GRATE	
(*) PRODUCT NO. 00102030	
DIPPED	
(*) CATALOG NO. 1020M1	
REF. PRODUCT DRAWING 102031	
EST. WT. GRATE: 124 LBS (56 kg)	
OPEN AREA 129 SQ. INCHES (774 SQ. CM)	
MAT'L SPEC. GRATE - GRAY IRON ASTM A48 CL 35B	
LOAD RATING EXTRA HEAVY DUTY	



(*) EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4458	
DRAWN SMH	DATE 11/11/02
APPROVED	DATE
SPECIAL LETTERED COVER	
(*) PRODUCT NO. 00102422	
CATALOG NO. (*) 1020A	
REF. PRODUCT DRAWING 00102067	
EST. WT. COVER WT. 115 LBS (52kg)	
OPEN AREA N/A	
MAT'L SPEC. COVER - GRAY IRON ASTM A48 CL 35	
LOAD RATING HEAVY DUTY	



VILLAGE OF WHEELING
ENGINEERING DIVISION
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WHEELING, IL 60090
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VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS
FILE LOCATION
N/ENGINEERING/STANDARDS/ WATER

REVISIONS	
S.W.	2-24-00 AUTOCAD FILE
S.W.	9-19-01 PER COMMENTS
S.W.	11-12-02 NPDES PHASE II
S.W.	02-07-03 ADDING NEENAH
C.J.C.	01-29-08 AUTOCAD FILE

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Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60655
Tel. 773.775.4009 Fax 773.775.4014

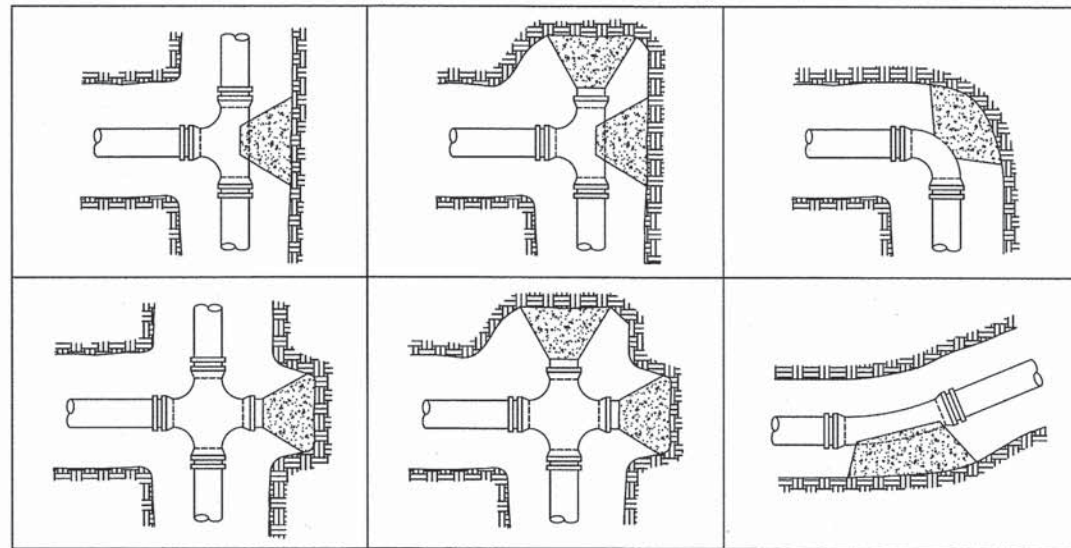
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	DATE = 3/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
DETAILS

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

F.A. RTE. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 40
CONTRACT NO. 61A34				
ILLINOIS FED. AID PROJECT				



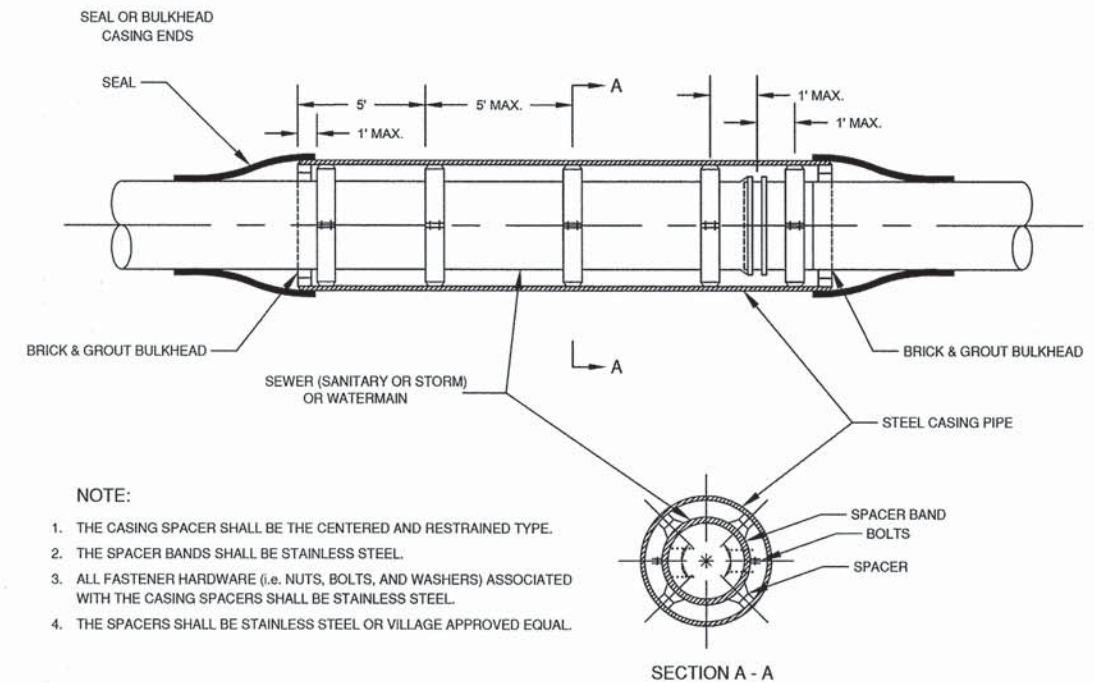
- NOTE**
1. ALL BLOCKING SHALL BE CONSTRUCTED WITH POURED CLASS SI CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE WITH A MINIMUM WIDTH OF 12 INCHES.
 2. RESTRAINED JOINTS AND THRUST BLOCKS TO BE USED AT ALL BENDS, AT TEES AND AT CROSSES AS SHOWN ABOVE, OR AS REQUIRED PER THE VILLAGE ENGINEER.
 3. THE FITTINGS SHALL BE MECHANICAL JOINT.
 4. OTHER METHODS MAY BE USED AS AN ALTERNATIVE WHEN APPROVED BY THE VILLAGE ENGINEER.
 5. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH FITTINGS SHALL BE STAINLESS STEEL.
 6. ALL FITTINGS SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS.



VILLAGE OF WHEELING
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THRUST BLOCK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
FILE LOCATION	S.W. 4-27-00 AUTOCAD FILE
N/ENGINEERINGSTANDARDS/ WATER	K.R.G. 9-11-06 AUTOCAD FILE



- NOTE:**
1. THE CASING SPACER SHALL BE THE CENTERED AND RESTRAINED TYPE.
 2. THE SPACER BANDS SHALL BE STAINLESS STEEL.
 3. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THE CASING SPACERS SHALL BE STAINLESS STEEL.
 4. THE SPACERS SHALL BE STAINLESS STEEL OR VILLAGE APPROVED EQUAL.

SECTION A - A

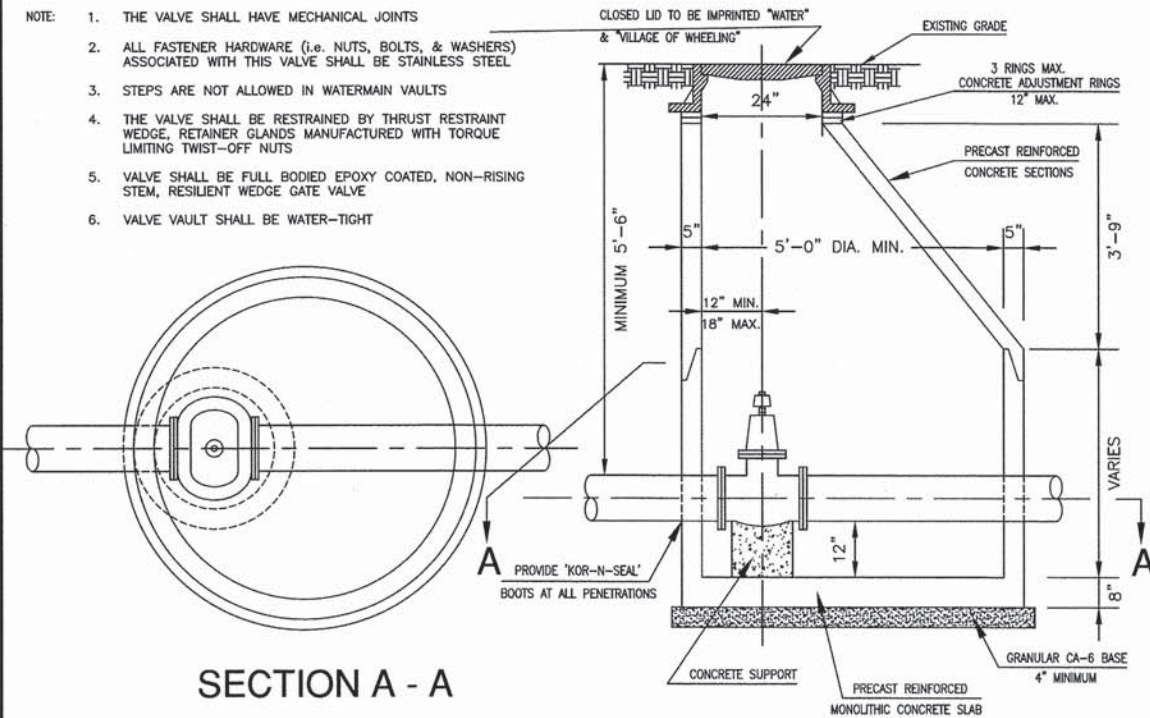


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UNDERGROUND UTILITY CASING PIPE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
FILE LOCATION	S.W. 4-17-00 AUTOCAD FILE
N/ENGINEERINGSTANDARDS/ WATER	K.R.G. 9-11-06 AUTOCAD FILE

- NOTE:**
1. THE VALVE SHALL HAVE MECHANICAL JOINTS
 2. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, & WASHERS) ASSOCIATED WITH THIS VALVE SHALL BE STAINLESS STEEL
 3. STEPS ARE NOT ALLOWED IN WATERMAIN VAULTS
 4. THE VALVE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS
 5. VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE
 6. VALVE VAULT SHALL BE WATER-TIGHT



SECTION A - A



VILLAGE OF WHEELING
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WHEELING, IL 60090
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5' DIA. VALVE VAULT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
FILE LOCATION	S.W. 6-29-03 AUTOCAD FILE
N/ENGINEERINGSTANDARDS/ WATER	S.W. 11-07-01 PER COMMENTS
	C.C. 03-07-07 PER COMMENTS
	K.R.G. 07-18-07 PER COMMENTS

MINIMUM LENGTHS OF RESTRAINED JOINT PIPE REQUIRED FROM FITTING

PIPE SIZE	DEFLECTION DOWN UPPER	DEFLECTION DOWN LOWER	TEES BRANCH	TEES RUN	HORIZONTAL 45 DEGREE	HORIZONTAL 90 DEGREE
8"	40'	10'			12'	28'
12"	15'	5'			8'	40'
16"	20'	7'			10'	52'
20"	32'	10'			10'	52'
20"X6"			5'	1'		
20"X12"			5'	1'		
20"X20"			5'	5'		

VERTICAL BENDS MAXIMUM 45 DEGREE.
VERTICAL LENGTHS BASED ON MINIMUM COVERS OF:
5' DEFLECTING TO 8' (DOWN)
6' DEFLECTING TO 4' (UP)
LENGTHS BASED ON:
CLAY SOILS WITH GRANULAR FILL, POLY-WRAPPED D.I.P., AND TEST PRESSURE OF 150 PSI.
AT A MINIMUM PROVIDE RESTRAINED JOINTS WITHIN 20' OF ALL FITTINGS.

RESTRAINED JOINT SPACING

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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 = ntumbv	DESIGNED -	REVISED -
PLOT SCALE = 1:8000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/24/2014	CHECKED -	REVISED -
	DATE - 3/24/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	41
CONTRACT NO. 61A34			ILLINOIS FED. AID PROJECT	

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

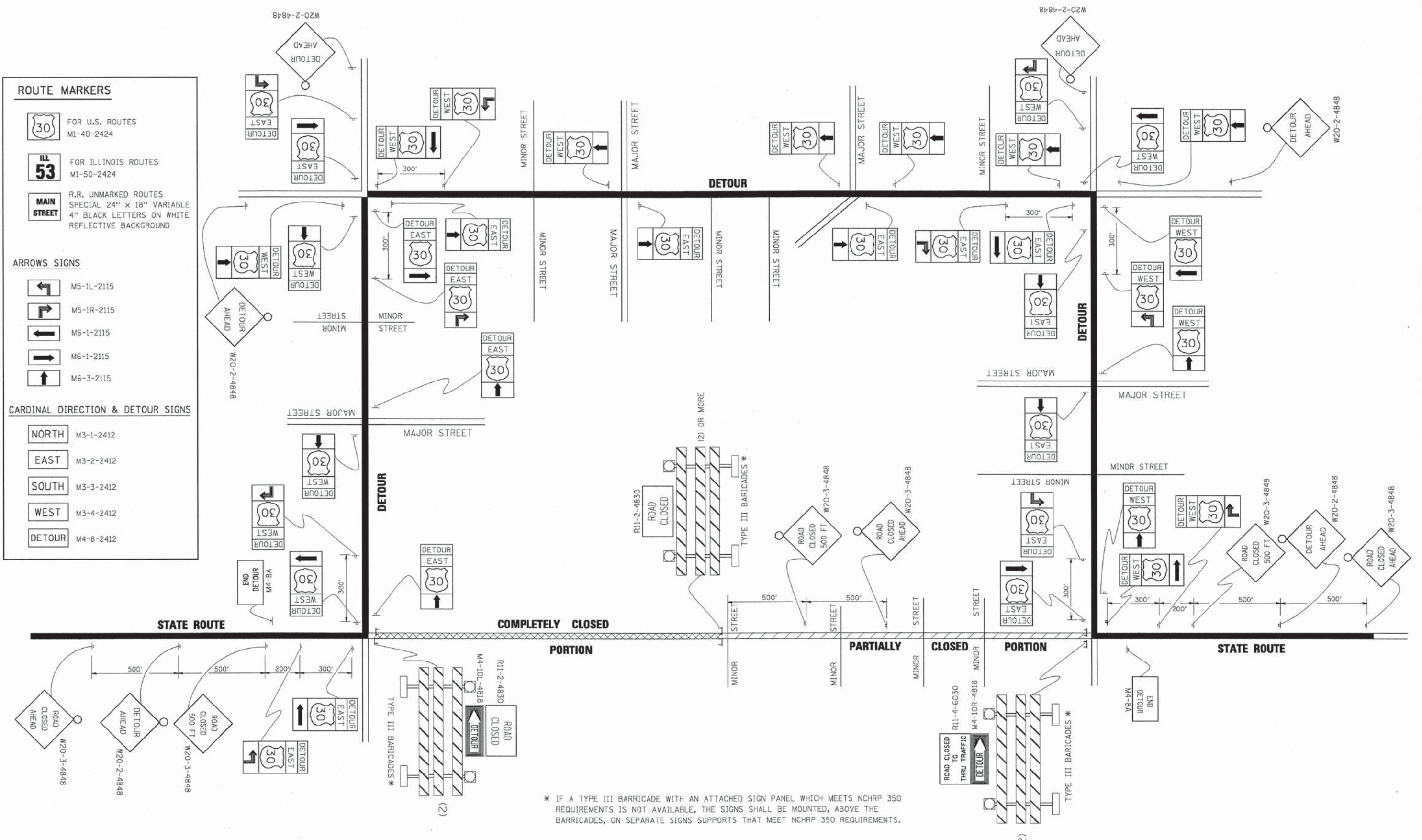
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412

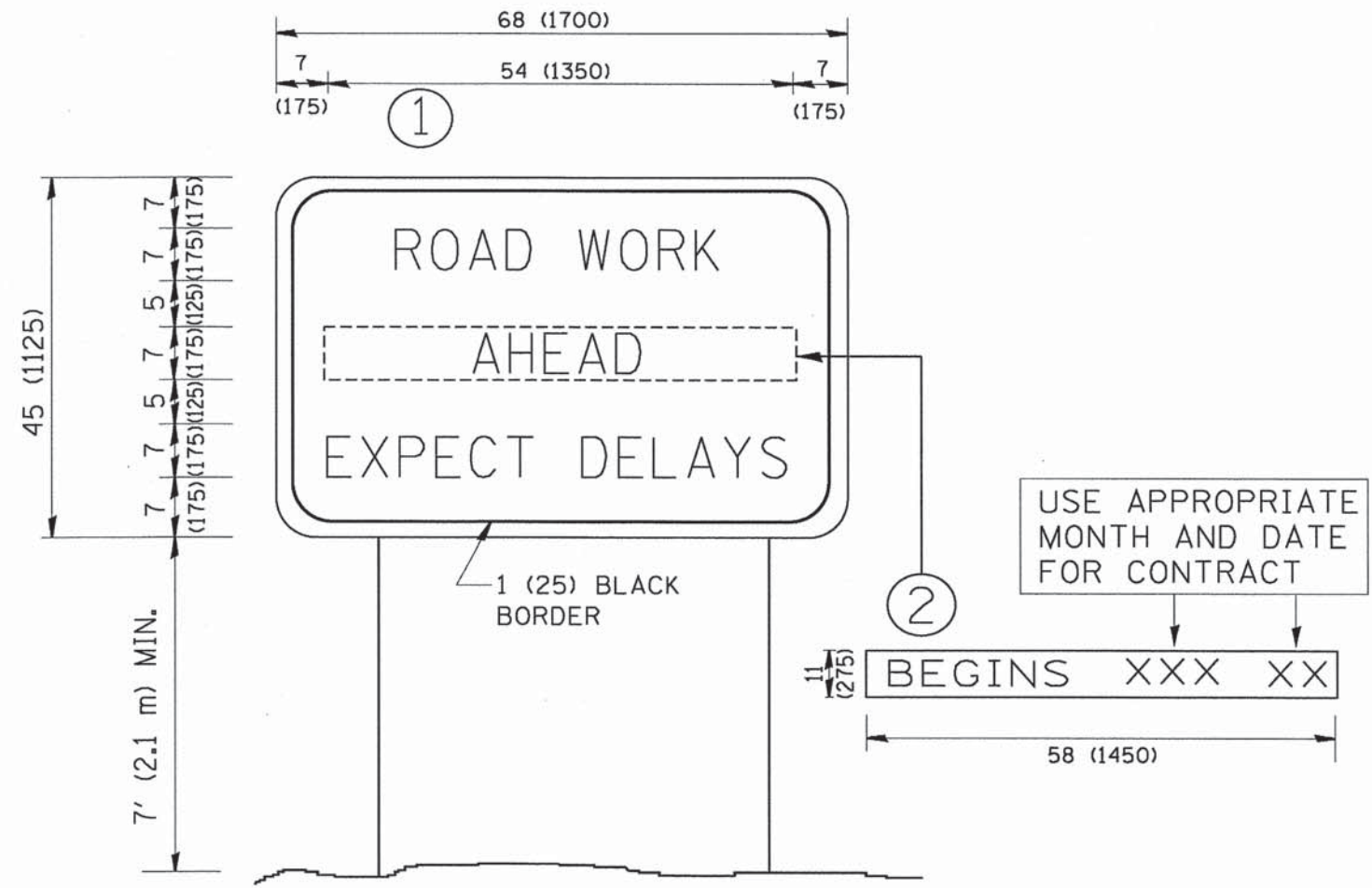


* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drvakosgn	DESIGNED -	REVISED - 10-18-02
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PLOT SCALE = 49.9999' / IN.		CHECKED -	REVISED -
PLOT DATE = 9/14/2009		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	N/A	11-00076-00-BR	COOK	48	42
STA.	TO STA.	TC-21		CONTRACT NO. 61A34		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT						



NOTES:

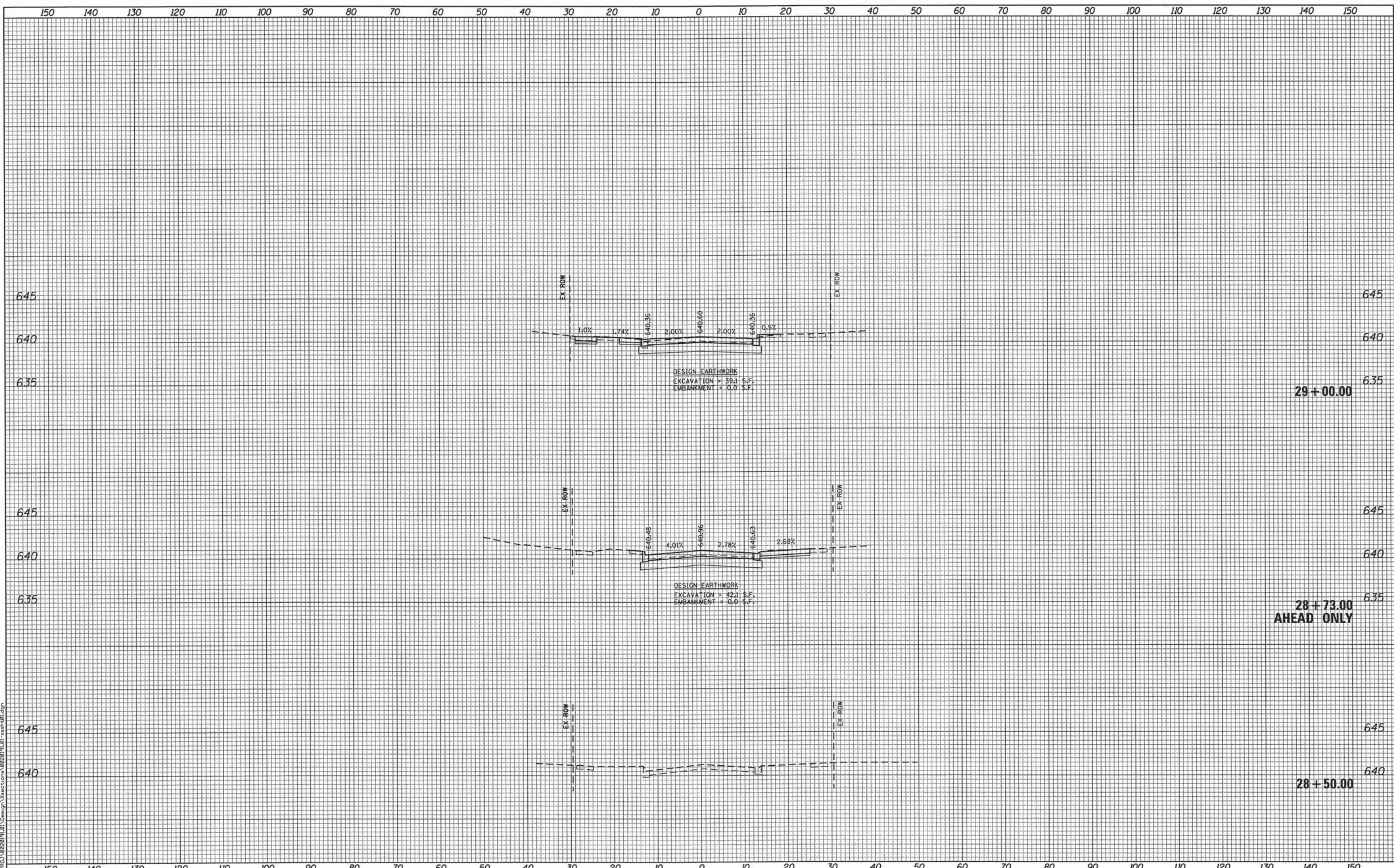
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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:\distsd\22x34\to22.dgn	USER NAME = geglienobt	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A. RTE. N/A	SECTION 11-00076-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 43
PLOT SCALE = 58.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22		CONTRACT NO. 61A34	
PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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

USER NAME = ntumber	DESIGNED -	REVISED -
PLLOT SCALE = 10,0000' / in.	DRAWN -	REVISED -
PLLOT DATE = 3/24/2014	CHECKED -	REVISED -
DATE = 1/23/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
CROSS SECTIONS**

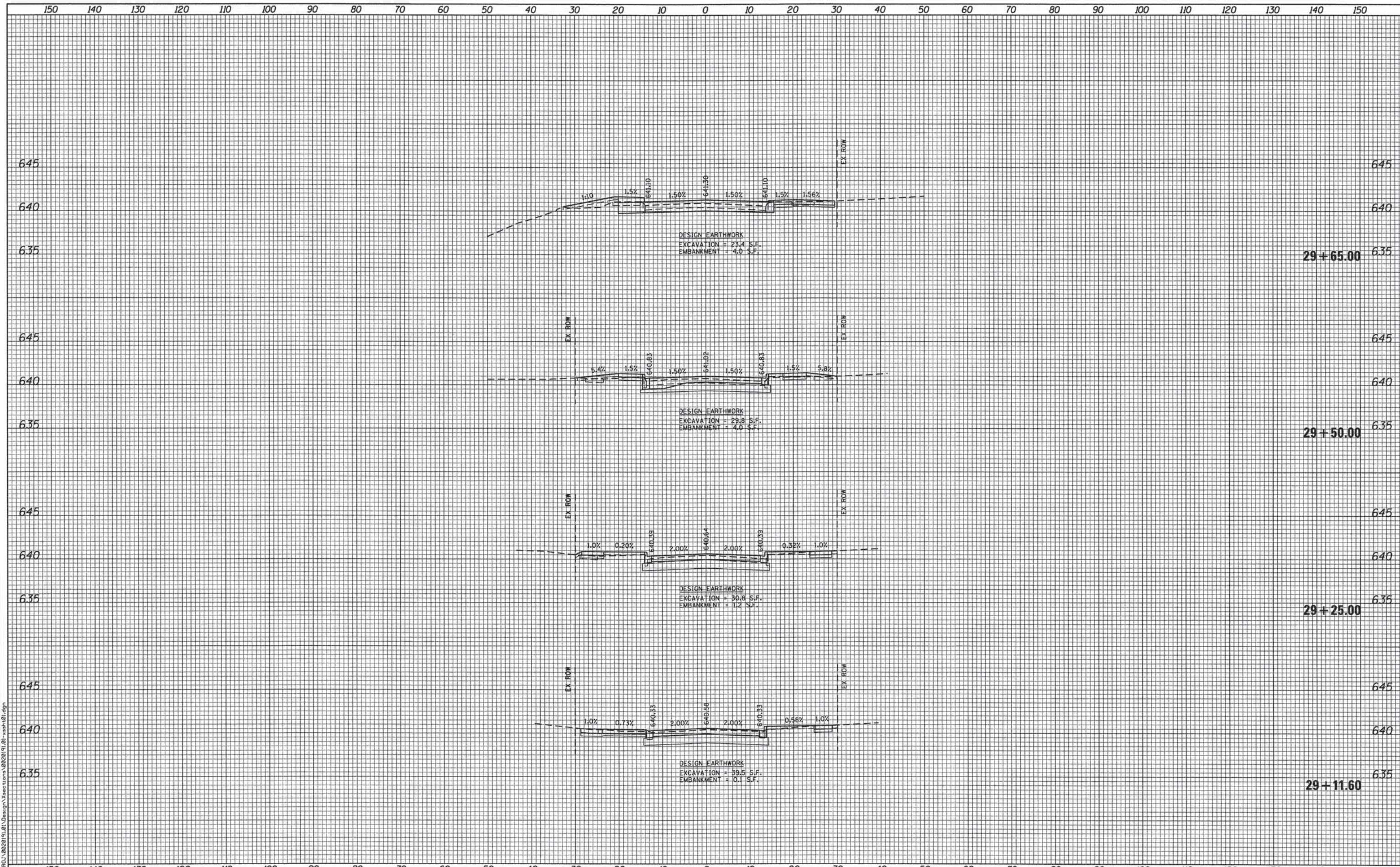
SCALE: SHEET NO. OF SHEETS STA. 28+50.00 TO STA. 29+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	44
CONTRACT NO. 61A34				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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

USER NAME = espino	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2014	DATE = 1/23/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

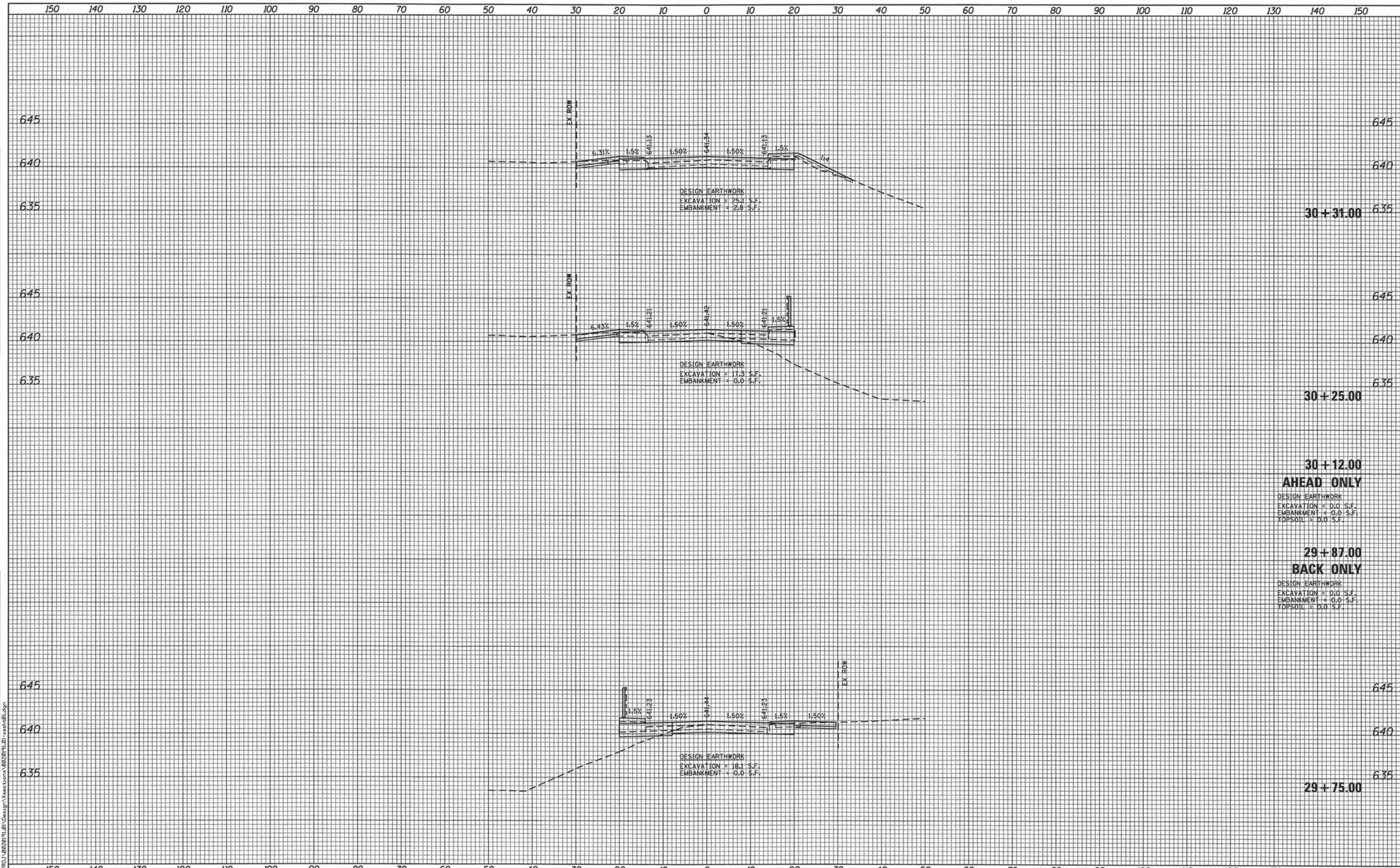
**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 29+11.60 TO STA. 29+65.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	45
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A34	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLANNED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLANNED	
TEMPLATE	
AREAS	
CHECKED	



30 + 31.00

30 + 25.00

30 + 12.00
AHEAD ONLY

DESIGN EARTHWORK
EXCAVATION = 0.0 S.F.
EMBANKMENT = 0.0 S.F.
TOPSOIL = 0.0 S.F.

29 + 87.00
BACK ONLY

DESIGN EARTHWORK
EXCAVATION = 0.0 S.F.
EMBANKMENT = 0.0 S.F.
TOPSOIL = 0.0 S.F.

29 + 75.00

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

USER NAME = espino	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 18.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/24/2014	DATE = 1/23/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
CROSS SECTIONS**

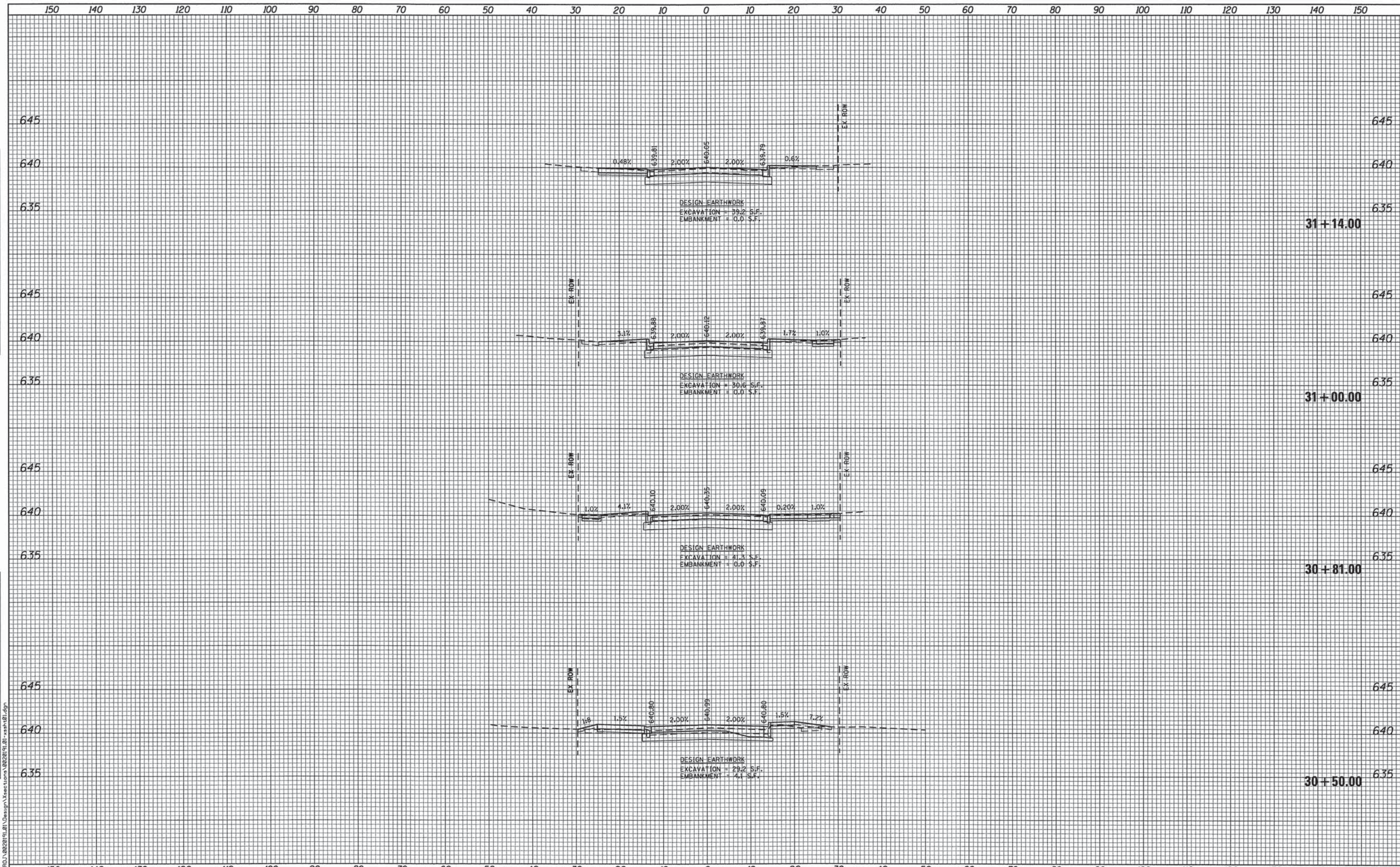
SCALE: SHEET NO. OF SHEETS STA. 29+75.00 TO STA. 30+31.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	46
CONTRACT NO. 61A34				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME = N:\PRD\11-00076\11-00076-00-BR\CrossSections\02-2013\01-01-ssht01.dgn

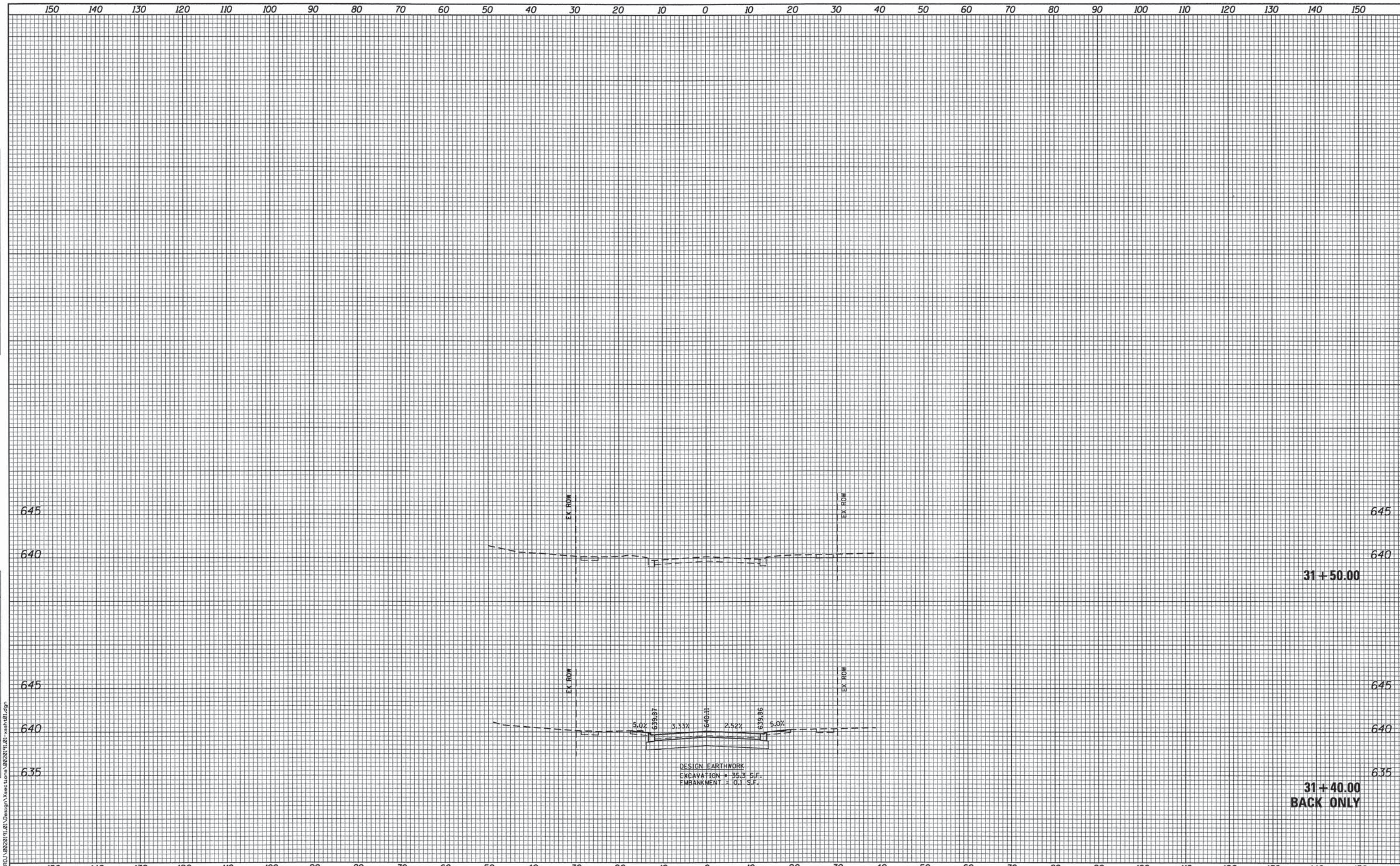
DATE	
BY	
SURVEYED	
REVIEWED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
REVIEWED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	




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USER NAME = espino	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/24/2014	CHECKED -	REVISED -
	DATE = 1/23/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST JEFFERY AVE OVER BUFFALO CREEK BRIDGE REPLACEMENT
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 31+40.00 TO STA. 31+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	11-00076-00-BR	COOK	48	48
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A34	