01-30-15 LETTING ITEM 051

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	1
	ILLINOIS	CONTRACT NO. 61A87		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED PLANS FOR FEDERAL AID HIGHWAY

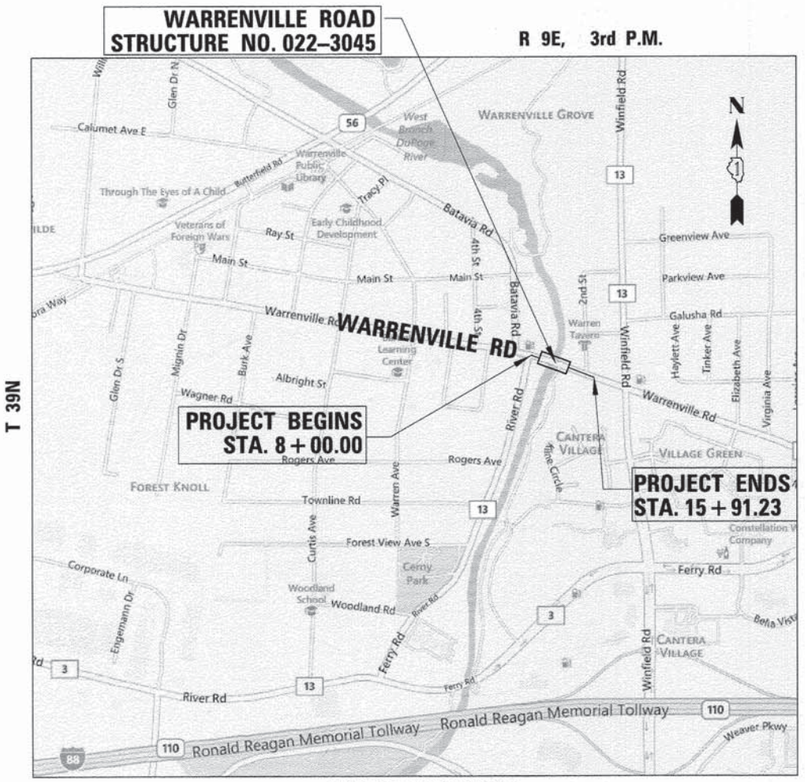
FAU ROUTE 1479 (COUNTY HIGHWAY 32) (WARRENVILLE ROAD)
OVER WEST BRANCH OF DUPAGE RIVER
BRIDGE REPLACEMENT
SECTION 12–00220–03–BR
PROJECT BRM–4003(386)
DUPAGE COUNTY
C–91–162–14

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

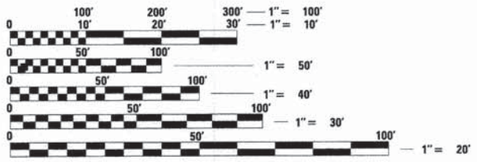
WARRENVILLE ROAD
EXISTING ADT: 14,302 (2013)
DESIGN ADT: 20,000 (2040)
POSTED SPEED LIMIT: 35 MPH
DESIGN DESIGNATION: MINOR ARTERIAL

PROJECT LOCATED IN THE CITY OF WARRENVILLE



WINFIELD TOWNSHIP
SCALE 1" = 2000'
GROSS LENGTH = 791.23 FT. = 0.150 MILE
NET LENGTH = 791.23 FT. = 0.150 MILE

LOCATION OF SECTION INDICATED THUS: –



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. 61A87

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, PE (847)–705–4021

STATE OF ILLINOIS
BRENT A. KUNZ
081-006200
CHICAGO, IL
LICENSED STRUCTURAL ENGINEER

SIGNED: Brent Kunz
DATE: October 16, 2014
EXPIRES: 11/30/2014
SHEETS: 49 to 88

DEWITT D. MOSES
062-057576
LICENSED PROFESSIONAL ENGINEER OF
STATE OF ILLINOIS

SIGNED: D. Dewitt Moses
DATE: October 29, 2014
EXPIRES: 11/30/2015
SHEETS: 2-34, 45-48, 89-103

MOHAMMED RASHED
062-053645
LICENSED PROFESSIONAL ENGINEER OF
STATE OF ILLINOIS

SIGNED: Mohd Rashed
DATE: October 20, 2014
EXPIRES: 11/30/2015
SHEETS: 35 to 44

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED October 16 20 14
Christopher Snyder
DuPAGE COUNTY ENGINEER

PASSED November 5 20 14
CHRISTOPHER MOLT
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW November 6 20 14
for Dominic Pi
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

IDOT STANDARD DRAWINGS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
420001-08	PAVEMENT JOINTS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-04	FRAME AND LIDS TYPE 1
604091-03	FRAME AND GRATE TYPE 24
606006-02	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B6.24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCES)
635001-01	DELINEATORS
667101-02	PERMANENT SURVEY MARKER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKING
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
825021-03	LIGHTING CONTROLLER BASE MOUNTED, 240V

GENERAL NOTES

1. ALL CONSTRUCTION WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE PERFORMED ACCORDING TO IDOT'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"(LATEST EDITION) AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" (LATEST EDITION)

2. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

3. THE CONTRACTOR SHALL USE CARE IN WORKING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.

4. IT SHALL BE THE CONTRACTOR'S RESPONSABILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

5. SAW CUTTING IS INCLUDED TO THE PROPOSED ITEM OF WORK SPECIFIED, UNLESS OTHERWISE SHOWN IN PLAN.

GENERAL NOTES

6. WHERE ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY OT THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

7. DISTURBED AREAS OF THE RIGHT-OF-WAY SHALL BE DRESSED WITH A MINIMUM OF 6" TOPSOIL SOD (SALT TOLERANT AND STAKED IN PLACE).

8. THE DIVISION OF TRANSPORTATION OPERATES/MAINTAINS TRAFFIC SIGNALS AND RELATED EQUIPMENT WITHIN THE VICINITY OF THE PROJECT. CONTACT THE DIVISION OF TRANSPORTATION A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION WITHIN THE COUNTY'S RIGHT OF WAY AND WITHIN 300' OF ANY COUNTY MAINTAINED SIGNAL TO LOCATE SAID EQUIPMENT. TRAFFIC SIGNALS AND RELATED EQUIPMENT ARE NOT ON THE J.U.L.I.E. SYSTEM.

9. EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE DUPAGE COUNTY STORMWATER AND FLOODPLAIN ORDINANCE SPECIFICATIONS AT ALL TIMES.

10. EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN THE COUNTY'S RIGHT-OF-WAY AT ANY TIME WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COUNTY ENGINEER, OR HIS DULY AUTHORIZED ASSIGN.

11. PAVEMENT, CURB/GUTTER AND STORM STRUCTURES WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE MAINTAINED FREE OF MUD/DEBRIS AT ALL TIMES AND SHALL BE CLEANED AS IS REQUIRED AND/OR AS DIRECTED BY THE ENGINEER.

12. CONTACT DUPAGE COUNTY (630/407-6900) A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR INSPECTIONS OF AND AT THE COMPLETION OF THE DESCRIBED WORK WITHIN THE COUNTY'S RIGHT-OF-WAY.

13. TRENCH BACKFILL FOR NON-PAVED AREAS SHALL BE INSTALLED WITHIN THE COUNTY'S RIGHT-OF-WAY PER DUPAGE COUNTY'S STANDARD.

14. TRENCH BACKFILL BELOW EXISTING OR PROPOSED PAVEMENT, CURB/GUTTER AND/OR SIDEWALK SHAL BE INSTALLED WITHIN THE COUNTY'S RIGHT-OF-WAY PER DUPAGE COUNTY'S STANDARD.

15. SURFACE TESTING OF ASPHALT PAVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AS DESCRIBED IN THE CONTRACT SPECIAL PROVISIONS AND THE COST SHALL BE INCLUDED IN THE COST OF THE HMA ITEM BEING TESTED.

16. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

17. UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

18. TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION; THE LOCATIONS OF TOPSOIL STOCKPILES WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY THE ENGINEER.

19. THE CONTRACTOR SHALL NOT CROSS COMPLETED BASE COURSE OR EXISTING PAVEMENT, NOT SCHEDULED TO BE REMOVED, WITH TRACK EQUIPMENT OR LOADED SCRAPERS

20. HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, BASE COURSE, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

21. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF THE 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.

S:\1216\05_CADD\Cadd Sheets\011216-sht-gennote.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	BAK	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
GENERAL NOTES, INDEX OF SHEETS AND STANDARD DRAWINGS

SCALE: NA | SHEET 1 OF 2 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	2
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

22. DURING THE CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED, AT HIS EXPENSE, TO HAVE AVAILABLE A WATER TRUCK OR SIMILAR EQUIPMENT TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS.

23. ALL EXCESS MATERIAL (BROKEN CONCRETE, CULVERT PIPE, WASTE ROADWAY EXCAVATION, SURPLUS MATERIAL FROM SEWER TRENCHES, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

TREE REMOVAL CLEARING HEDGE REMOVAL NOTES

1. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.

2. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.

3. ALL CLEARING, REMOVAL OF BUSHES, HEDGES AND TREES UNDER SIX (6) INCHES IN DIAMETER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

OVERHANGIN LIMBS NOTES

1. OVERHANGING LIMBS ARE TO BE TRIMMED OR CUT OFF TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF TWENTY (20) FEET FROM THE FINISHED SURFACE OF THE ROAD. CLEARANCE TO SIDEWALKS OR PATHS SHALL BE AS DIRECTED BY THE ENGINEER.

2. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED TREE EXPERT AS STATED IN THESE NOTES AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.

3. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE MADE AT THE GROWTH RING AT THE NEXT LARGE BRANCH.

4. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.

5. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TREE REMOVAL.

TOPSOIL

1. TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES AND BE MEASURED IN SQUARE YARDS.

2. THE CROSS SECTIONS INDICATE THE FINISHED GRADE OF TOPSOIL.

ROADWAY EXCAVATION NOTES

1. ALL EXISTING CULVERTS, STORM SEWERS, OR DRAINAGE STRUCTURES MARKED FOR REMOVAL ON THE PLANS OR DESIGNATED IN THE FIELD BY THE ENGINEER TO BE REMOVED SHALL BE REMOVED AND ANY EXCAVATION SHALL BE BACKFILLED WITH A GRANULAR MATERIAL MEETING THE SPECIFICATIONS FOR FA-1 OR FA-2. THE COST OF ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES FOR STORM SEWER OR PIPE CULVERT UNLESS PAID FOR AS A SPECIFIC ITEM.

ROADWAY EXCAVATION NOTES

2. ALL EXISTING GRANULAR AND HOT-MIX ASPHALT PAVEMENT TO BE REMOVED AND NOT PAID AS A SPECIFIC ITEM SHALL BE CONSIDERED EARTH EXCAVATION AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION. THE CONTRACTOR WILL HAVE THE OPTION OF REMOVING THE EXISTING HOT-MIX ASPHALT PAVEMENT BY GRINDING OR EXCAVATING. IF THE HOT-MIX ASPHALT PAVEMENT IS REMOVED BY EXCAVATION, IT MAY NOT BE USED IN EMBANKMENT AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. HOT-MIX ASPHALT PAVEMENT REMOVED BY GRINDING MAY BE USED AS EMBANKMENT MATERIAL. NO HOT-MIX ASPHALT PAVEMENT SHALL BE REMOVED IN AREAS TO BE USED FOR TEMPORARY ROADWAY.

3. ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING AGGREGATE SUBGRADE OR SUB-BASE GRANULAR MATERIAL.

4. ALL EXISTING DOMESTIC BUFFALO BOXES ARE TO BE ADJUSTED BY THE CONTRACTOR. THE COST OF THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

STORM SEWERS, STRUCTURES AND UTILITIES NOTES

1. THE CONTRACTOR SHALL MAINTAIN CONVEYANCE OF ALL FLOWS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, CULVERTS, AND OTHER DRAINAGE FACILITIES. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME THAT THE PERMANENT DRAINAGE FACILITIES ARE IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE CONTRACT.

2. THE STATION / OFFSET / ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE; ELEVATION INDICATES RIM GRADES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMAINS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.

4. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNERS OF THE UTILITIES.

5. EMBANKMENTS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO EXCAVATION FOR STORM SEWER.

6. THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STORM SEWER BEING CONNECTED.

7. MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED WITH FLAT TOPS WHERE THE DIFFERENCE BETWEEN THE RIM ELEVATION AND INVERT ELEVATION IS LESS THAN SIX (6) FEET.

8. ALL ADJUSTMENTS OR RECONSTRUCTIONS SHALL INCLUDE THE REMOVAL AND REPLACEMENT, AT THE CONTRACTOR'S EXPENSE, OF ALL UNSUITABLE TWO (2) FOOT INSIDE DIAMETER ADJUSTING RINGS.

9. ADJUSTMENT OF STRUCTURES MAINTAINED BY OTHER AGENCIES SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY MAINTAINING THE STRUCTURE INVOLVED.

STORM SEWERS, STRUCTURES AND UTILITIES NOTES

10. ALL MANHOLES AND INLETS SHALL HAVE POURED INVERTS. THE COST OF INVERTS SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.

11. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND CONNECTED TO PROPOSED DRAINAGE STRUCTURES, SEWERS, OR DITCHES, AS DIRECTED BY THE ENGINEER; THIS WORK WILL BE PAID FOR AT THE APPLICABLE CONTRACT UNIT PRICE OR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

12. TRENCHES CROSSING TRAFFIC LANES SHALL BE TEMPORARILY PATCHED WITH FOUR (4) INCHES HOT-MIX ASPHALT BASE COURSE; THE COST OF THE HOT-MIX ASPHALT BASE COURSE WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE SEWER, CULVERT, WATERMAIN, OR OTHER ITEM PLACED IN TRENCH. THIS PRICE SHALL INCLUDE THE COST OF MAINTAINING THE PATCH TO THE SATISFACTION OF THE ENGINEER.

TRENCH BACKFILL NOTES

1. WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS USING METHOD ONE.

HOT-MIX ASPHALT SURFACE AND HOT-MIX ASPHALT BASE COURSE NOTES

1. SAWCUT CONSTRUCTION JOINTS SHALL BE PROVIDED AT PAVED COMMERCIAL OR PRIVATE ENTRANCES AND AT ALL SIDE ROADS. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR HOT-MIX ASPHALT SURFACE COURSE.

2. THE MAXIMUM COMPACTED THICKNESS OF ANY LIFT OF HOT-MIX ASPHALT BINDER OR SURFACE COURSE SHALL BE 2.5 INCHES.

3. THE MAXIMUM COMPACTED THICKNESS OF A LIFT OF HOT-MIX ASPHALT BASE COURSE SHALL BE FOUR (4) INCHES UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

4. HOT-MIX ASPHALT BASE COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

5. THE CONTRACT UNIT PRICES FOR ITEMS USED TO CONSTRUCT TEMPORARY PAVEMENT OR ACCESS ROADS SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL REQUIRED TO PLACE, REMOVE, AND DISPOSE OF THE TEMPORARY PAVEMENT OR ACCESS ROAD.

S:\1216\05_CADD\Cadd Sheets\011216-sht-gennote.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - BAK	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
GENERAL NOTES, INDEX OF SHEETS AND STANDARD DRAWINGS

SCALE: NA | SHEET 2 OF 2 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	3
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	94	94	
20101000	TEMPORARY FENCE	FOOT	200	200	
20200100	EARTH EXCAVATION	CU YD	6,161	6,161	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	166	166	
20800150	TRENCH BACKFILL	CU YD	176	176	
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,048	1,048	
25000300	SEEDING, CLASS 3	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	43	43	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	43	43	
25200110	SODDING, SALT TOLERANT	SQ YD	1,100	1,100	
25200200	SUPPLEMENTAL WATERING	UNIT	10	10	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	4,892	4,892	
28000400	PERIMETER EROSION BARRIER	FOOT	1,371	1,371	
28000500	INLET AND PIPE PROTECTION	EACH	13	13	

CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
28000510	INLET FILTERS	EACH	2	2	
28100107	STONE RIPRAP, CLASS A4	SQ YD	790		790
28200200	FILTER FABRIC	SQ YD	488		488
30300116	AGGREGATE SUBGRADE IMPROVEMENT 16"	SQ YD	3,287	3,287	
35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	33	33	
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	2,599	2,599	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	195	195	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,984	1,984	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	263	263	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	328	328	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	17	17	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	281	281	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	87	87	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	7,015	7,015	

* SPECIALTY ITEMS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - BAK	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SUMMARY OF QUANTITIES

SCALE: NA | SHEET 1 OF 5 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	4
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\05_CADD\Cadd Sheets\01216-sht-500.dgn

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
42400800	DETECTABLE WARNINGS	SQ FT	209	209	
44000100	PAVEMENT REMOVAL	SQ YD	3,647	3,647	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	440	440	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,639	1,639	
44000600	SIDEWALK REMOVAL	SQ FT	986	986	
48101202	AGGREGATE SHOULDERS, TYPE B	CU YD	31	31	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	480.0		480.0
50200300	COFFERDAM EXCAVATION	CU YD	27.1		27.1
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	347.6		347.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,412.7		1,412.7
50300260	BRIDGE DECK GROOVING	SQ YD	1,259		1,259
50300300	PROTECTIVE COAT	SQ YD	2,851	421	2,430

CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	230,030		230,030
51201800	FURNISHING STEEL PILES HP14X73	FOOT	4,072		4,072
51202305	DRIVING PILES	FOOT	4,072		4,072
51203800	TEST PILE STEEL HP14X73	EACH	5		5
51204650	PILE SHOES	EACH	78		78
51500100	NAME PLATES	EACH	1		1
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTION 18"	EACH	2	2	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	59	59	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	47	47	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	110	110	
55100500	STORM SEWER REMOVAL 12"	FOOT	152	152	
55100700	STORM SEWER REMOVAL 15"	FOOT	97	97	
55100900	STORM SEWER REMOVAL 18"	FOOT	131	131	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	66		66

* SPECIALTY ITEMS

S:\1216\05_CADD\Cadd Sheets\011216-sht-SOQ.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.229.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - BAK	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SUMMARY OF QUANTITIES

SCALE: NA | SHEET 2 OF 5 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	5
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	6	6	
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7	7	
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1	
	60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
	60255700	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1	
	60500040	REMOVING MANHOLES	EACH	3	3	
	60500050	REMOVING CATCH BASINS	EACH	5	5	
	60500060	REMOVING INLETS	EACH	3	3	
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	195	195	
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	83	83	
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	860	860	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,750	1,750	
*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	2	2	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5	

	CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10	
	67100100	MOBILIZATION	L SUM	1	1	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	6,761	6,761	
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	109	109	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6,797	6,797	
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	12	12	
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	52	52	
•	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTER AND SYMBOLS	SQ FT	73	73	
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,518	2,518	
•	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	221	221	
•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	532	532	
•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	86	86	
•	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTER AND SYMBOLS	SQ FT	36	36	

* SPECIALTY ITEMS

S:\1216\05.CADD\Cadd Sheets\011216-sht-500.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - BAK	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SUMMARY OF QUANTITIES

SCALE: NA | SHEET 3 OF 5 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	6
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
•	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	746	746	
•	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	17	17	
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	2,005	2,005	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40	40	
•	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
•	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1	
•	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	445	445	
•	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	24	24	
•	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	548	548	
•	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x12"X6"	EACH	2	2	
•	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	945	945	
•	81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	378	378	
•	81702300	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4	FOOT	945	945	
•	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1	1	

	CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
	X0323455	ADJUST MONITORING WELLS	EACH	2	2	
•	X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1	1	
	X0325670	CONCRETE BRIDGE RAIL, SIDEWALK MOUNTED	FOOT	473		473
	X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	167	167	
	X5010523	REMOVE CONCRETE END SECTION	EACH	2	2	
*	X5091755	PARAPET RAILING, SPECIAL	FOOT	503		503
	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	100.1		100.1
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
•	X7340102	CONCRETE FOUNDATION, STREET LIGHTING CONTROLLER	EACH	1	1	
•	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	85	85	
•	X8300001	LIGHT POLE, SPECIAL	EACH	12	12	
	XX000372	TEMPORARY AGGREGATE	TON	216	216	
	XX003338	TEST HOLE	EACH	5	5	
	XX005963	ANTI-GRAFFITI COATING	SQ FT	4,460		4,460

* SPECIALTY ITEMS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - BAK	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SUMMARY OF QUANTITIES

SCALE: NA | SHEET 4 OF 5 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	7
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

S:\1216\BB_CADD\Cadd Sheets\101216-sht-500.dgn

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011
	XX007460	STONE PIER	EACH	12		12
•	XX007797	LUMINAIRE (SPECIAL)	EACH	12	12	
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	534	534	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
	Z0018005	DRAINAGE SCUPPERS, DS-12M10	EACH	2		2
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	55	55	
•	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	5	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	200		200
Δ	Z0076600	TRAINEES	HOUR	1,000	1,000	
Δ	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000	
	XX009000	FURNISHING, INSTALLING AND STRESSING POST-TENSIONING TENDONS	L SUM	1		1

CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0011

* SPECIALTY ITEMS

Δ 0042

S:\1216\05_CADD\Cadd Sheets\011216-sht-S00.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

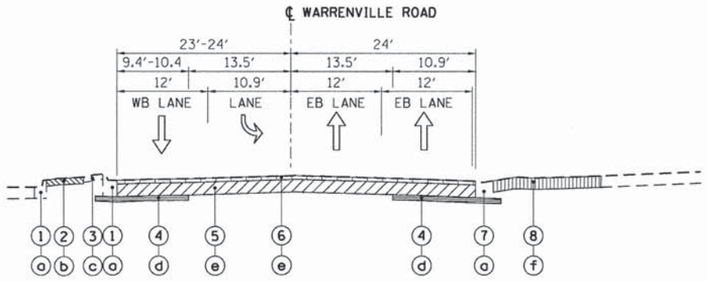
USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - BAK	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SUMMARY OF QUANTITIES

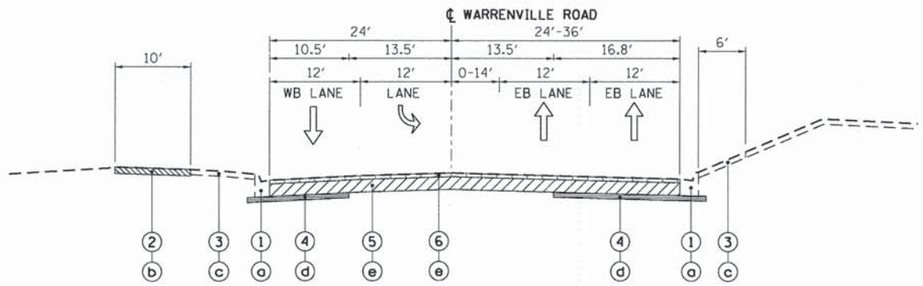
SCALE: NA | SHEET 5 OF 5 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	8
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



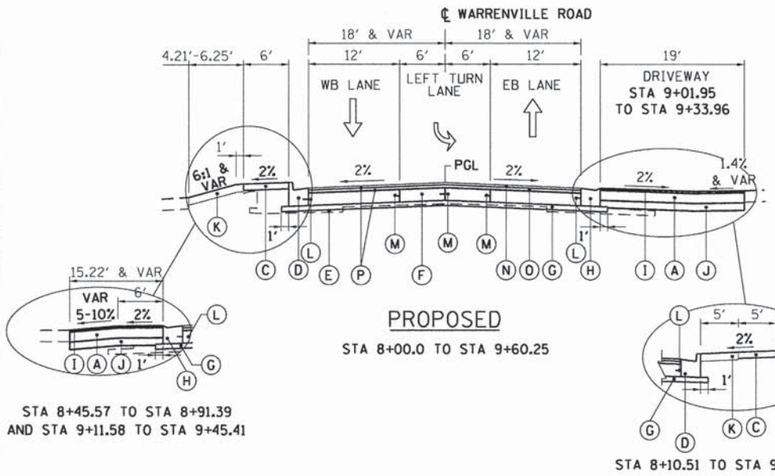
EXISTING

STA 8+00.0 TO STA 9+81.57



EXISTING

STA 11+29.86 TO STA 15+91.23

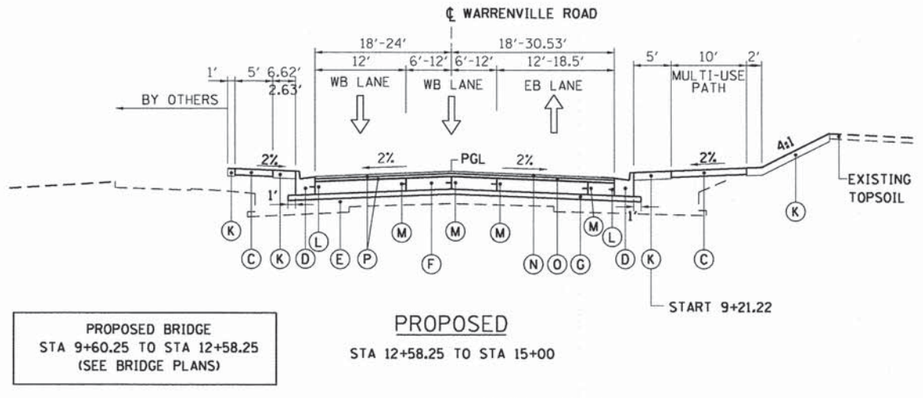


PROPOSED

STA 8+00.0 TO STA 9+60.25

STA 8+45.57 TO STA 8+91.39
AND STA 9+11.58 TO STA 9+45.41

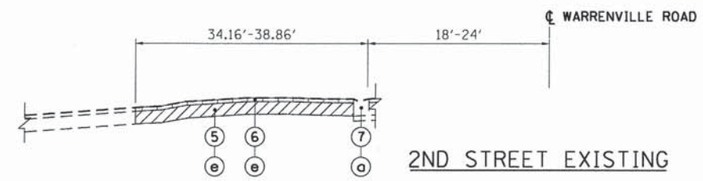
STA 8+10.51 TO STA 9+01.25



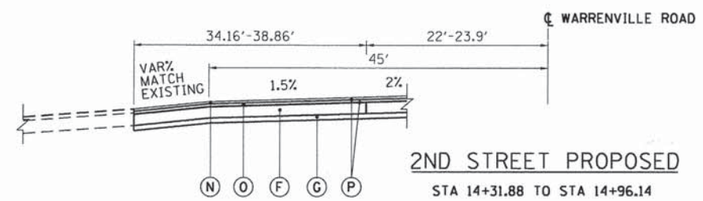
PROPOSED BRIDGE
STA 9+60.25 TO STA 12+58.25
(SEE BRIDGE PLANS)

PROPOSED

STA 12+58.25 TO STA 15+00

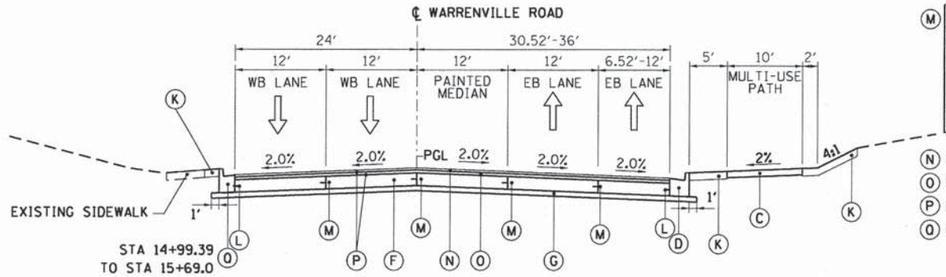


2ND STREET EXISTING



2ND STREET PROPOSED

STA 14+31.88 TO STA 14+96.14



PROPOSED

STA 15+00 TO STA 15+91.23

EXISTING LEGEND

(1) COMBINATION CONCRETE CURB AND GUTTER
(2) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
(3) TOP SOIL
(4) SUBBASE GRANULAR MATERIAL, TYPE B 4"
(5) PORTLAND CEMENT CONCRETE BASE COURSE 10"
(6) 3" HMA OVERLAY
(7) DEPRESSED CURB & GUTTER
(8) HMA DRIVEWAY

REMOVAL LEGEND

(a) COMBINATION CURB AND GUTTER REMOVAL
(b) SIDEWALK REMOVAL
(c) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
(d) EARTH EXCAVATION
(e) PAVEMENT REMOVAL
(f) DRIVEWAY PAVEMENT REMOVAL

PROPOSED LEGEND

(A) HOT-MIX ASPHALT BASE COURSE, 8"
(B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
(C) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
(D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(E) EMBANKMENT
(F) PORTLAND CEMENT CONCRETE BASE COURSE 10"
(G) AGGREGATE SUBGRADE IMPROVEMENT 16"
(H) DEPRESSED CURB AND GUTTER, PAY AS (D)
(I) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (1.5")
(J) AGGREGATE BASE COURSE, TYPE B (6")
(K) TOP SOIL FURNISH AND PLACE, 6"

(L) LONGITUDINAL CONSTRUCTION JOINT.
DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB & GUTTER TYPE)

(M) LONGITUDINAL SAWED OR CONSTRUCTION JOINT.
FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8" DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C.
(SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE)

(N) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm), 1.75"
(O) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2.25"
(P) BITUMINOUS MATERIALS (PRIME COAT)
(Q) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18

HOT-MIX ASPHALT TABLE MIX

MIXTURE TYPE	AIR VOIDS @ Ndes	THICKNESS
DRIVEWAY HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm) HMA BASE COURSE (HMA BINDER IL-19mm) CE-8	 4% @ 50 GYR 4% @ 50 GYR	 1.5" 2 1/4" MIN
PAVEMENT - 1.75", HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) - 2.25", HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	 4% @ 70 GYR 4% @ 70 GYR	 1 3/4" 2 1/4" MIN

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX SURFACE MIXTURES IS 112 LBS/SQ YD/INCH THICKNESS

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22 UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS
FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS
FOR USE OF RECYCLED MATERIAL SEE SPECIAL PROVISIONS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED - RA	REVISED -	
	DRAWN - RA	REVISED -	
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -	
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
TYPICAL SECTIONS

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	9
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

S:\12161\05_CADD\Cadd Sheets\012161-sht-typical.dgn

PAVEMENT REMOVAL (44000100)					
STA	WIDTH (FT)	TO	STA	WIDTH (FT)	AREA (SY)
08+00.00	59.89		09+31.57	47.85	699.56
11+29.86	48.30		15+91.23	60	2810.96
14+43.47	52.16		14+70.77	62.86	136.78
				TOTAL	3,647

DRIVEWAY PAVEMENT REMOVAL (44000200)					
STA	OFFSET	TO	STA	AREA (SQ FT)	AREA (SY)
08+53.20	53.2 LT		08+94.50	263.50	29
08+08.24	32' RT		09+00.00	856.00	95
09+00.00	38.2' RT		09+67.50	645.00	72
09+14.90	35.8' LT		09+67.30	1025.00	114
11+44.96	49.98' RT		11+84.50	681.00	76
14+50.45	36' RT		14+68.40	179.00	20
15+32.00	28.3' RT		15+48.00	136.60	15
15+80.68	38' RT		15+48.63	170.60	19
				TOTAL	440

SIDEWALK REMOVAL (44000600)					
STA	OFFSET	TO	STA	OFFSET	AREA (SQ FT)
07+80.36	29' LT		08+53.73	28' LT	370
08+94.50	28' LT		09+14.35	27' LT	84
11+74.85	33' LT		11+84.98	33' LT	71.2
09+43.30	31.66' RT		09+68.89	31.66' RT	180.6
10+92.55	31.4' LT		11+36.84	31.4' LT	231
08+85.78	29.88' RT		08+95.23	30.26' RT	49
				TOTAL	986

COMBINATION CURB AND GUTTER REMOVAL (44000500)					
STA	OFFSET	TO	STA	OFFSET	LENGTH (FT)
07+47.81	25.14' RT		07+52.19	33.67' RT	10
08+00.00	48' RT		09+82.00	25.6' RT	210
07+79.70	26' LT		08+53.50	24' LT	165
08+94.50	28' LT		09+14.35	28' LT	51
08+92.85	24' LT		09+82.50	24' LT	90
10+78.82	25' LT		14+43.83	47' LT	453
14+25.21	24.84' LT		14+43.47	52.16' LT	30
14+70.77	62.86' LT		15+00.00	25.0' LT	43
14+26.12	25' LT		15+69.00	25' LT	75
10+78.65	26' RT		15+91.23	38' RT	513
				TOTAL	1,639

APPROACH SLAB REMOVAL (Z0004552)					
STA	WIDTH (FT)	TO	STA	WIDTH (FT)	AREA (SY)
09+31.57	47.85		09+81.57	47.85	267
10+79.90	48.30		11+29.90	48.3	268
				TOTAL	534

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (78300200)				
STA	TO	STA	LENGTH (FT)	EACH
08+01.18		15+91.23	790.05	40
			TOTAL	40

TREE REMOVAL (6 TO 15 UNITS DIAMETER) (20100110)			
STA	OFFSET		UNIT
10+81.80	42.55	RT	12
10+85.00	40.29	RT	8
10+69.51	46.47	RT	6
11+80.16	48.86	RT	8
11+81.00	46.63	RT	6
11+93.72	45.11	RT	8
12+05.00	42.5	RT	6
12+05.00	42.5	RT	6
12+15.73	43.32	RT	8
12+25.00	44.68	RT	6
12+25.00	44.68	RT	6
12+29.50	42.89	RT	7
12+56.50	49.33	RT	7
		TOTAL	94

HOT-MIX ASPHALT BASE COURSE, 8" (35501316)								
STA	OFFSET		TO	STA	OFFSET		SQ FT	AREA
								SQ YD
09+01.95	20.58' RT			09+33.96	20.58' RT		462	51
08+45.57	21.47' LT			08+91.39	20.64' LT		372	41
09+11.58	20.58' LT			09+45.41	20.58' LT		721	80
14+36.50	29.3' RT			14+84.00	32.2' RT		200	22
							TOTAL	195

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)							
STA	OFFSET	WIDTH	TO	STA	OFFSET	WIDTH	AREA, SF
07+41.16	26.85' RT	5				5	44.5
08+11.30	25.58' RT	5		09+04.00	25.58' RT	5	444
09+31.50	25.58' RT	5		09+60.25	25.58' RT	5	179
07+82.26	24.58' LT	6		08+45.90	21.47' LT	6	397
08+93.00	20.65' LT	6		09+07.53	20.58' LT	6	95
09+43.70	20.58' LT	6		09+60.25	20.58' LT	4.42	112
12+58.25	20.58' LT	7.4		14+37.78	27.68' LT	5	912
12+58.25	20.58' RT	14		16+63.66	49' RT	10	4141
				UNDER BRIDGE		10	690
						TOTAL	7,015

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (40603335) 1.5IN THICK							
STA	OFFSET	WIDTH	TO	STA	OFFSET	WIDTH	TON
SEE ITEM HOT-MIX ASPHALT BASE COURSE, 8" (35501316)							16.4
						TOTAL	16.4

AGGREGATE BASE COURSE, TYPE B (35101500) 6 IN THICK								
STA	OFFSET	WIDTH	TO	STA	OFFSET	SF	FOOT	CY
SEE ITEM HOT-MIX ASPHALT BASE COURSE, 8" (35501316)						1755	0.5	32.5
							TOTAL	32.5

PORTLAND CEMENT CONCRETE BASE COURSE 10" (35300500)					
STA	WIDTH	STA	WIDTH	AREA (SF)	AREA (SY)
08+00.00	57.55	09+60.25	36	6,099.0	677.7
12+58.25	36	15+91.23	60	17,291.0	1,921.2
				TOTAL	2,599

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (40603340)						
STA	WIDTH	TO	STA	WIDTH	AREA (SF)	TON
08+00.00	57.55		09+60.25	36	6,099.0	66.4
12+58.25	36		15+91.23	60	17,291.0	188.3
20' PAVEMENT TRANSITION AT BUTT JOINT					2,364.0	25.7
			1.75 IN		TOTAL	280.4

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (40603085)						
STA	WIDTH	TO	STA	WIDTH	AREA (SF)	TON
08+00.00	57.55		09+60.25	36	6,099.0	85.4
12+58.25	36		15+91.23	60	17,291.0	242.1
			2.25 IN		TOTAL	327.5

AGGREGATE SUBGRADE IMPROVEMENT 16" (30300116)						
STA	WIDTH	TO	STA	WIDTH	AREA (SF)	AREA (SY)
08+00.00	57.55		09+60.25	36	6,099.0	677.7
12+58.25	36		15+91.23	60	17,291.0	1,921.2
			C&G T B-6.24		6,192	688
					TOTAL	3,287

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (60603800)					
STA	WIDTH	TO	STA	WIDTH	LENGTH, (FT)
07+82.26	22' LT		07+82.26	34.8' LT	8.5
08+45.90	21.47' LT		08+52.36	30.7' LT	13
08+86.90	30.1' LT		08+93.00	20.64' LT	13
09+09.90	20.58' LT		09+16.65	35.8' LT	19
09+40.50	35.8' LT		09+47.08	20.58' LT	19
14+31.88	22' LT		14+43.47	52.16' LT	31.5
14+70.77	62.86' LT		14+99.39	26.07' LT	50.5
09+00.00	20.58' RT		09+05.85	38.19' RT	20
09+30.00	38.19' RT		09+38.13	20.58' RT	20
				TOTAL	195

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (60604400)					
STA	OFFSET	TO	STA	OFFSET	LENGTH
07+47.00	25.14' RT				9.6
14+96.14	23.90' LT		15+69.00	24.00' LT	73
				TOTAL	83

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)					
STA	OFFSET	TO	STA	OFFSET	LENGTH
					FOOT
07+99.30	41.6' RT		09+60.25	20.58' RT	169
07+82.26	22' LT		09+60.25	20.58' LT	179
12+58.25	18' RT		15+91.23	36' RT	334
12+58.25	18' LT		14+31.88	22' LT	178
				TOTAL	860

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) (42001420)						
STA	WIDTH	TO	STA	WIDTH	AREA (SF)	AREA (SY)
09+54.25	53.1		09+60.25	52.6	387	43.0
12+58.25	63		12+68.25	63.1	395.5	43.9
					TOTAL	86.9

S:\1216\85.CADD\Cadd Sheets\011216-sht-schedule.dgn

BOWMAN, BARRETT & ASSOCIATES INC
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. NTS | TO STA. NTS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	10
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

PROTECTIVE COAT (50300300)				
			AREA	AREA
	LENGTH	WIDTH	SF	SY
B-6.12	195	2.5	486.25	54
B-6.24	860	3.5	3010	334
B-6.18	83	3.5	289.1	32
OVER CURB AND GUTTER		TOTAL		421

BITUMINOUS MATERIAL (PRIME COAT) (40600275)				
	AREA (SF)	* LIFTS	POUND	
SEE ITEMS 40603340 and 40603085	23,390.0	2	1,169.5	BETWEEN LIFTS
HOT-MIX ASPHALT BASE COURSE, 8" (35501316)	1,755.0	4	175.5	BETWEEN LIFTS
HOT-MIX ASPHALT BASE COURSE, 8" (35501316)	1,293.0	1	323.3	ON AGGREGATE
20' PAVEMENT TRANSITION AT BUTT JOINT	1,264.0	1	316.0	BETWEEN LIFTS
0.25 LBS/SF IF PLACED ON AGGREGATE		TOTAL	1,984	
0.025 LBS/SF BETWEEN LIFTS				

AGGREGATE SHOULDERS TYPE B (48101202)				
STA	WIDTH	TO	AREA (SF)	AREA (CY)
12+00.27	2		138	15.3
11+88.25	2		138	15.3
FOR BIKEPATH SHOULDER UNDER BRIDGE			TOTAL	30.7

TEMPORARY AGGREGATE (XX000372)						
WIDTH	AT	AREA (SF)	DEPTH, FT	CU FT		TON
10 275 ft TEMP BIKEPATH		2750	0.5	1,375.00	133 0.0005	91.4
10 375 ft TEMP BIKEPATH		3750	0.5	1,875.00	133 0.0005	124.7
14•25•2TEMP DRIVEWAY		700	0.5	350.00	133 0.0005	23.3
					TOTAL	216.1
GRANULAR MATERIAL, ASSUME DENSITY OF 133 lbs/cu ft						
CONVERSION: 133 lbs/cu ft AND 1 TON/2000lbs						

PERIMETER EROSION BARRIER (28000400)					
STA	OFFSET	TO	STA	OFFSET	FOOT
DOUBLE	ROW		AT RIVER		290
09+67.50	38.2' RT		09+93.70	38.2' RT	38
10+78.20	50' RT		16+73.00	60.5' RT	622
09+66.75	36.2' LT		10+15.40	36' LT	62
11+65.00	33.0' LT		14+27.00	33.2' LT	273
14+93.57	28.1' LT		15+79.50	27.8' LT	86
				TOTAL	1,371

STA.	TO	STA.	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	UNSUITABLE MATERIAL (TOPSOIL) EXCAVATION (CU YD)
08+00.00		08+50.00	144.63	122.94	11.47	111.46	2.87
08+50.00		09+00.00	114.26	97.12	32.26	64.86	2.15
09+00.00		09+50.00	94.77	80.56	50.74	29.82	2.15
09+50.00		09+60.25	17.30	14.71	16.25	-1.54	0.69
			0.00	0.00	0.00	0.00	0.00
10+20.75		10+70.72	0.00	0.00	766.28	-766.28	0.00
			0.00	0.00	0.00	0.00	0.00
10+80.00		11+00.00	556.98	473.43	0.00	473.43	4.05
11+00.00		11+50.00	1,873.96	1,592.87	0.00	1,592.87	21.55
11+50.00		12+00.00	1,937.97	1,647.28	0.00	1,647.28	23.74
12+00.00		12+58.25	936.10	795.68	84.62	711.06	18.70
12+58.25		13+00.00	27.10	23.03	115.55	-92.51	6.90
13+00.00		13+50.00	36.81	31.28	100.69	-69.41	10.66
13+50.00		14+00.00	79.17	67.29	55.88	11.41	13.22
14+00.00		14+50.00	185.65	157.80	38.80	119.00	11.65
14+50.00		15+00.00	234.54	199.36	24.91	174.45	12.10
15+00.00		15+50.00	211.48	179.76	12.22	167.54	13.98
15+50.00		15+91.23	171.33	145.63	5.12	140.52	10.47
15+91.23		16+00.00	22.54	19.16	0.18	18.98	1.91
16+00.00		16+40.00	19.84	16.87	0.07	16.79	8.65
		TOTAL	6,664.43	5,664.77	1,315.04	4,349.73	165.43

TOPSOIL FURNISH AND PLACE, 6" (21101625)					AREA	AREA
STA	OFFSET	TO STA		OFFSET	SQ FT	SQ YD
07+36.00	15.8' RT	07+52.50		33.80' RT	157	17
07+83.36	34.77' LT	08+48.43		33.49' LT	360	40
08+88.50	32.9' LT	09+14.91		32.8' LT	160	18
08+17.53	25.58' RT	09+04.26		25.58' RT	380	42
09+31.58	25.58' RT	09+60.25		25.58' RT	125	14
08+16.07	36.45' RT	09+04.26		38.2' RT	619	69
09+31.58	38.2' RT	09+60.25		38.2' RT	189	21
12+65.76	46.14' RT	16+62.96		60' RT	3357	373
12+91.15	20.58' RT	16+44.00		38.45' RT	1822	202
09+42.08	32.8' LT	10+29.25		33' LT	600	67
11+65.00	33' LT	14+32.50		33.3' LT	860	96
12+90.84	27.2' LT	14+33.13		27.2' LT	651	72
14+93.60	28.0' LT	15+79.54		27.85' LT	150	17
					TOTAL	1048

EARTHWORK SUMMARY	
20200100	20201200
EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
(CU YD)	(CU YD)
6,665	166

SODDING, SALT TOLERANT 25200110					AREA SF	AREA SY	ACRE SF/43560	CONVERSION RATE	25000400 NITROGEN FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT
STA	OFFSET	TO	STA	OFFSET						
07+36.00	15.8' RT		07+52.50	33.80' RT	157	17	0.00	90.00	0.3	0.3
07+83.36	34.77' LT		08+48.43	33.49' LT	360	40	0.01	90.00	0.7	0.7
08+88.50	32.9' LT		09+14.91	32.8' LT	160	18	0.00	90.00	0.3	0.3
08+17.53	25.58' RT		09+04.26	25.58' RT	380	42	0.01	90.00	0.8	0.8
09+31.58	25.58' RT		09+60.25	25.58' RT	95	11	0.00	90.00	0.2	0.2
08+16.07	36.45' RT		09+04.26	38.2' RT	619	69	0.01	90.00	1.3	1.3
09+31.58	38.2' RT		09+60.25	38.2' RT	179	20	0.00	90.00	0.4	0.4
12+65.76	46.14' RT		16+62.96	60' RT	3495	388	0.08	90.00	7.2	7.2
12+91.15	20.58' RT		16+44.00	38.45' RT	1975	219	0.05	90.00	4.1	4.1
09+42.08	32.8' LT		10+29.25	33' LT	970	108	0.02	90.00	2.0	2.0
11+65.00	33' LT		14+32.50	33.3' LT	560	62	0.01	90.00	1.2	1.2
12+90.84	27.2' LT		14+33.13	27.2' LT	800	89	0.02	90.00	1.7	1.7
14+93.60	28.0' LT		15+79.54	27.85' LT	150	17	0.00	90.00	0.3	0.3
SEE BELOW, ITEM 25000300								90.00	22.5	22.5
					TOTAL 9900	1100	0.23		43.0	43.0

HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL (X2510635)				
STA	TO	STA	SF	SY
09+90.00		11+90.00	1500.00	166.67
			TOTAL	167

SEEDING, CLASS 3 (25000300)						ACRE
10+38.91	50' RT	12+65.76	49.88' RT	2665.00	296.11	0.25

S:\1216\05.CADD\Cadd Sheets\1011216-sht-schedule.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

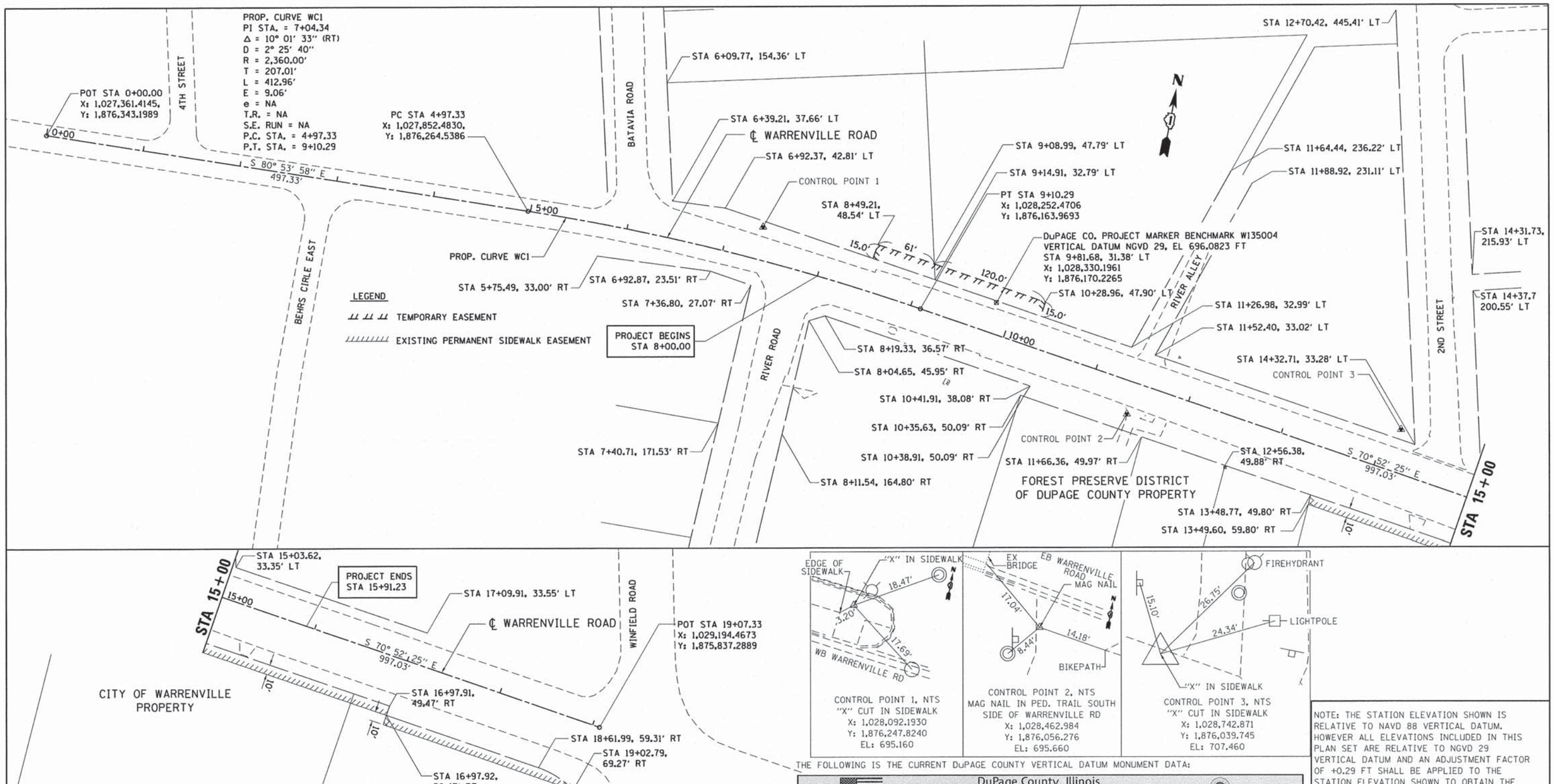
USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. NTS | TO STA. NTS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	11
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				



CONTROL POINT 1, NTS
"X" CUT IN SIDEWALK
X: 1,028,092.1930
Y: 1,876,247.8240
EL: 695.160

CONTROL POINT 2, NTS
MAG NAIL IN PED. TRAIL SOUTH
SIDE OF WARRENVILLE RD
X: 1,028,462.984
Y: 1,876,056.276
EL: 695.660

CONTROL POINT 3, NTS
"X" CUT IN SIDEWALK
X: 1,028,742.871
Y: 1,876,039.745
EL: 707.460

THE FOLLOWING IS THE CURRENT DuPAGE COUNTY VERTICAL DATUM MONUMENT DATA:

DuPage County, Illinois
2006 Geodetic Survey Monument

Benchmark:	WI35004	**Station Elevation:**	695.79 Ft
PID:	DK3119	**Date Established:**	
County:	DuPage	**Date Last Checked:**	
Township:	Winfield	**Vertical Datum:**	NAVD 88
Northing:	1876168	**Order of Accuracy:**	2nd Order - Class 1
Easting:	1028323	**NGS Horizontal Accuracy:**	

Caution: Northing and easting information is given in NAD 83 Illinois State Plane East and are for location reference only. Actual northing and easting information may differ.

Description:
Station is located 0.2 miles west along Warrenville Road from the intersection of Warrenville Road with Winfield Road at the northwest end of the bridge for Warrenville Road over the West Branch of the DuPage River. Station is 31.4 ft north of the centerline of Warrenville Road, 70.7 ft east of power pole 69299, and 16.0 ft east of the west end of the sidewalk on the north edge of the bridge. Monument is flush with the sidewalk.

NOTE: THE STATION ELEVATION SHOWN IS RELATIVE TO NAVD 88 VERTICAL DATUM. HOWEVER ALL ELEVATIONS INCLUDED IN THIS PLAN SET ARE RELATIVE TO NGVD 29 VERTICAL DATUM AND AN ADJUSTMENT FACTOR OF +0.29 FT SHALL BE APPLIED TO THE STATION ELEVATION SHOWN TO OBTAIN THE NGVD 29 ELEVATION. SET NEW BENCHMARK AS REQUIRED PRIOR TO REMOVING MONUMENT. COST INCLUDED WITH CONSTRUCTION LAYOUT.

FOR ADDITIONAL DuPAGE BENCHMARK INFORMATION:
http://www.dupageco.org/GIS/1727/

GRAPHIC SCALE
20 0 20 40 60 80 100
FEET

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 12/19/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

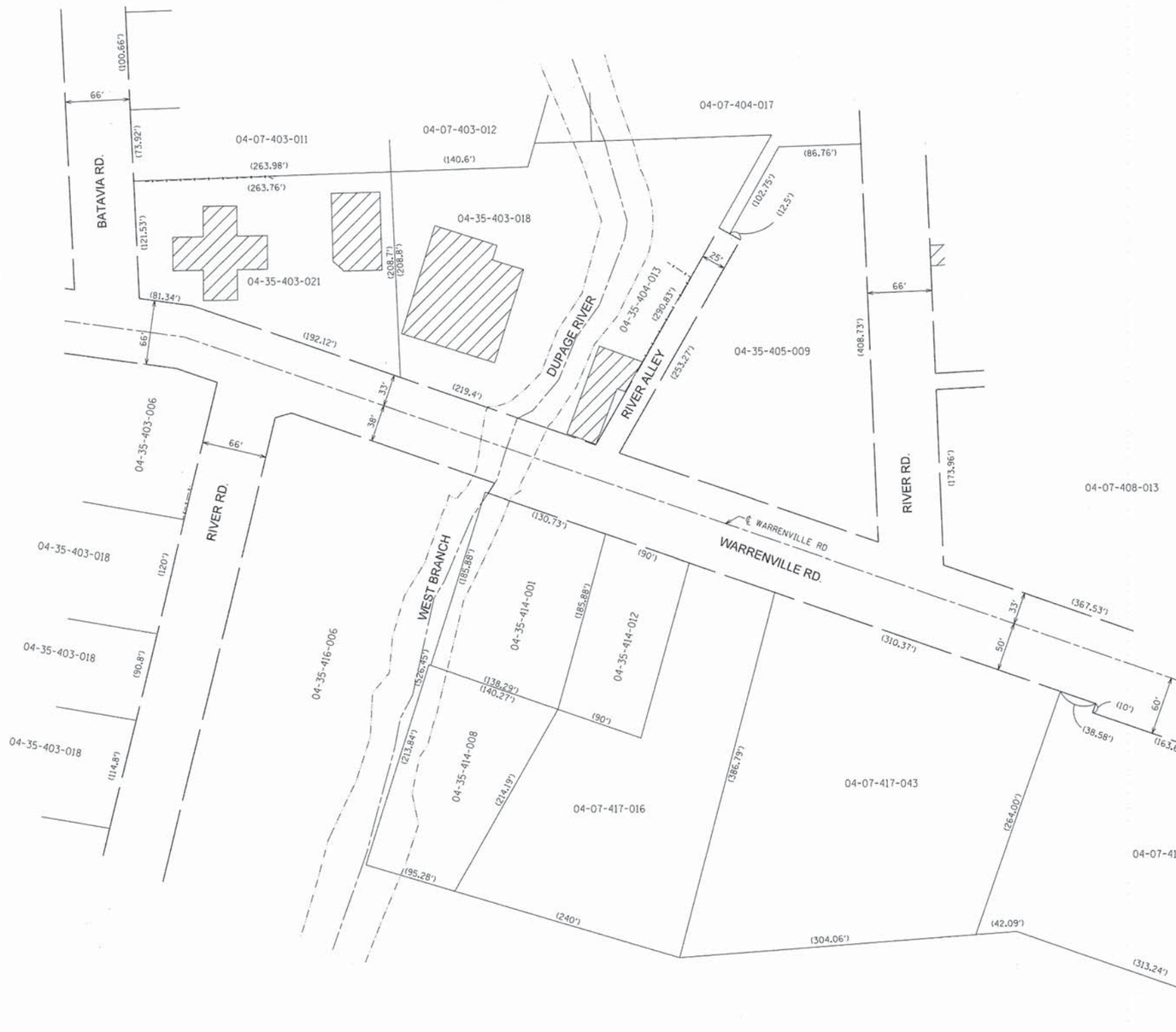
CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
ALIGNMENT AND TIES

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	12
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
		ILLINOIS FED. AID PROJECT		

S:\1216\05_CADD\Cadd Sheets\011216-sht-ATB.dgn

PART OF THE SE 1/4 OF SECTION 35 OF TWP. 39 N., R. 9 E. OF THE 3RD. P.M., IN DU PAGE COUNTY, ILLINOIS.



LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
℄ APL — PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
AC — EXISTING ACCESS CONTROL LINE
AC — PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

SCALE 1" = 60'
0 30 60 90 120

Bearings and distance are referenced to the Illinois State Plane Coordinate System, East Zone, NAD 83 (2011 CORS)

Combination Scale Factor (Grid to Ground): 1.000053286

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

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

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

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

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

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

RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, GERARDO P. SANCHEZ, AN ILLINOIS PROFESSIONAL LAND SURVEYOR LICENSE NO. 035-003486, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 35, TOWNSHIP 39 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS _____ DAY OF _____ 20 ____ A.D.

_____
GERARDO P. SANCHEZ, PRESIDENT

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003486
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

ILLINOIS PROFESSIONAL DESIGN FIRM REGISTRATION NO.: 184-004601

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

SANCHEZ & ASSOCIATES, P.C.
LAND SURVEYORS
8604 W. CATALPA AVE. STE 912 CHICAGO, IL 60656
PH 773-444-0144 FAX 847-232-3104

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WARRENVILLE ROAD

LIMITS: _____ COUNTY: DU PAGE
SECTION: _____ JOB NO.: _____
STATION _____ TO STATION _____
SCALE: 1"=60' SHEET 1 OF 1

IDOT USE ONLY

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

REVISION DATE: __/__/__ REVISION MADE BY: _____

S:\1216\05_CADD\Cadd Sheets\01216-sht-row plats.dgn

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	GS	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EXISTING ROW PLAN
SCALE: NA SHEET 1 OF 3 SHEETS STA. NA TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	13
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

Submitted by:
Return to: City of Warrenville
3S258 Manning St
Warrenville, IL
Attn: Michelle Savage 60555

FINAL PLAT OF SUBDIVISION
FOR
BROWNE SUBDIVISION

PLAT
R2004-179070
JUL.02.2004
10:31 AM

BEING A RESUBDIVISION OF LOT 1 IN CANTERA SERVICE STATION NUMBER 1, BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 39 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND PART OF THE NORTHEAST QUARTER OF SECTION 2, TOWNSHIP 39 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 29, 1993 AS DOCUMENT R93-165712 AND BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 39 NORTH RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN THE CITY OF WARRENVILLE, WINFIELD TOWNSHIP, DUPAGE COUNTY, ILLINOIS.

30 15 0 30 60
SCALE 1" = 30'

LOCATION MAP
NOT TO SCALE

LOT AREA INFORMATION

LOT 1	= 73,154 SQ. FT.	AREA = 1.679 ACRES
LOT 2	= 96,619 SQ. FT.	AREA = 2.218 ACRES
TOTAL	= 169,773 SQ. FT.	AREA = 3.897 ACRES

OUTLOT A (AREA IN ROADWAY) = 14,169 SQ. FT. AREA = 0.324 ACRES

PERMANENT EASEMENT AND TEMPORARY CONSTRUCTION EASEMENT PER DOCUMENT NO. R84-03249
FOUND IRON PIPE ON LINE & 49.64'S
S 70°55'10" E 282.68'
OUTLOT A
14,169 SQ. FT.
HEREBY DEDICATED TO THE COUNTY OF DUPAGE FOR ROADWAY PURPOSES
CENTERLINE OF WARRENVILLE ROAD
WESTERN LINE OF PARCEL 3 PER DOCUMENT NO. R91-059923
S 12°47'47" W 50.30'
S 70°55'10" E 64.89'
S 19°04'50" W 10.00'
POINT OF BEGINNING
WARRENVILLE ROAD
THE SOUTHERLY RIGHT OF WAY LINE OF WARRENVILLE ROAD AS DEDICATED BY DOC. R72-44783
284.08'
10' SIDEWALK EASEMENT
25' PARKING SETBACK (SEE NOTE 8)
25' BUILDING SETBACK (SEE NOTE 4)
FOUND IRON PIPE 1.89'W & ON LINE
UNSUBDIVIDED AREA
N 14°23'11" E 436.96'
PARCEL 17 DOC. 209644 CORRECTED BY DOC. 252937
10' BUILDING SETBACK
5' PARKING SETBACK
REMNANTS OF PARCEL 17 PER DOC. R91-059923
CORNER SIGHT EASEMENT
N10°03'10"W 37.00'
S19°4'50"W 10.00'
CROSS ACCESS EASEMENT AREA (SEE NOTE 7)
S70°55'10"E 105.61'
S19°04'50"W 10.00'
S70°55'10"E 163.63'
THE SOUTHERLY RIGHT OF WAY LINE OF WARRENVILLE ROAD AS DEDICATED BY DOC. R93-165712
WATERMAIN EASEMENT PER DOC. R93-165712
20' PARKING SETBACK
40' BUILDING SETBACK
WEST LINE OF LOT 1 IN CANTERA SERVICE STATION NUMBER 1
LOT 2
96,619 SQ. FT.
ZONED P.U.D. (O-1)
WEST LINE OF PARCEL 17 PER DOCUMENT NO. R91-059923
DU PAGE WATER COMMISSION EASEMENT PER DOC. R84-16279
273.96'
S 0°46'5"E
REMNANTS OF PARCEL 3 PER DOC. NO. R91-059923
64.42'
N89°5'2"E
PARCEL 3 PER DOC. NO. R91-059923
224.06'
N 12°47'47" E 237.78'
R= 90.00'
L= 109.84'
CB=S 35°57'25" E
LOT 1
73,154 SQ. FT.
ZONED P.U.D. (B-4)
CANTERA SERVICE STATION NUMBER 1
RECORDED JULY 29, 1993 AS DOC. NO. R93-165712
LOT 1
COMMON ADDRESS: 28W125 WARRENVILLE ROAD WARRENVILLE, ILLINOIS
WATERMAIN EASEMENT PER DOC. R93-165712
CORNER SIGHT EASEMENT
S 0°59'41" E 189.59'
THE WESTERLY RIGHT OF WAY OF WINFIELD ROAD AS DEDICATED BY DOC. R91-051532
THE RIGHT OF WAY OF WINFIELD ROAD AS DEDICATED BY DOC. R91-051532
WINFIELD ROAD
STORMWATER EASEMENT AREA
30' BUILDING SETBACK LINE
15' PARKING SETBACK LINE
FLOOD ZONE "A4"
FLOOD ZONE "B"
FOUND IRON PIPE AT CORNER TO BE REPLACED WITH A CONCRETE MONUMENT
304.06'
S 85°31'41" W 346.15'
NORTH LINE OF CANTERA VILLAGE UNIT 2
CANTERA VILLAGE UNIT 2
RECORDED JULY 19, 1996 PER DOC. NO. R96-115750
FOUND IRON PIPE AT CORNER TO BE REPLACED WITH A CONCRETE MONUMENT
N 70°55'10" W 313.24'
30' BUILDING SETBACK
15' PARKING SETBACK
CORNER SIGHT EASEMENT
LOT 2
30' x 30' DRAINAGE AND STORMWATER MANAGEMENT EASEMENT PER DOC. R93-165712
DRAINAGE AND STORMWATER MANAGEMENT EASEMENT PER DOC. R94-186789

NOTES:

1. THE PROPERTY COVERED BY THIS FINAL PLAT IS SUBJECT TO THE CONDITIONS, REQUIREMENTS AND PROVISIONS OF THAT CERTAIN CITY OF WARRENVILLE PLANNED UNIT DEVELOPMENT ORDINANCE NO. 2003-___.

2. ACCORDING TO OUR INTERPOLATION OF THE FLOOD INSURANCE RATE MAPS, A PORTION OF THE PROPERTY DESCRIBED HEREIN FALLS WITHIN ZONE "A4" OR "AREAS OF 100 YEAR FLOOD BOUNDARY" AND ZONE "B" "500 YEAR FLOOD BOUNDARY" AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 170210 0002 C WITH AN EFFECTIVE DATE OF OCTOBER 18, 1983. THE BALANCE OF THE PROPERTY HEREON LIES WITHIN ZONE "C" OR "AREAS OF MINIMAL FLOODING". THIS WAS DETERMINED BY SCALING THE FLOOD ZONE LINE FROM THE FEMA MAP. (SUBJECT TO MAP INTERPRETATION AND SCALING)

3. ALL PRIOR BUILDING OR PARKING SETBACK LINES SHOWN ON PREVIOUS SUBDIVISIONS OF THE SUBJECT PROPERTY ARE HEREBY VACATED, ABROGATED, AND EXTINGUISHED, ONLY THE SETBACK LINES SHOWN HEREON SHALL APPLY TO THE SUBJECT PROPERTY.

4. HOWEVER, UP TO 50% OF THE LENGTH OF THE WARRENVILLE ROAD FACADE OF ANY BUILDING CONSTRUCTED ON LOT 2 MAY ENCROACH UP TO 10 FEET INTO THE REQUIRED 25 FOOT FRONT YARD BUILDING SET BACK.

5. REBAR WILL BE SET AT ALL LOT CORNERS AND POINT CHANGES IN ALIGNMENT (UNLESS OTHERWISE NOTED).

6. BEARINGS BASED ON THE WEST LINE OF LOT 1, CANTERA SERVICE STATION NO. 1 WITH A RECORD BEARING OF N 19°04'50" E.

7. LOT 1 IS SUBJECT TO A CERTAIN ACCESS EASEMENT IN FAVOR OF LOT 2 OVER THE PORTION OF LOT 1, LABELED "CROSS ACCESS EASEMENT AREA" PURSUANT TO A CERTAIN ACCESS EASEMENT AGREEMENT RECORDED AS DOCUMENT NO. _____ UNDER CERTAIN CIRCUMSTANCES SAID EASEMENT MIGHT TERMINATE. PLEASE REFER TO DOCUMENT NO. _____ FOR A FULL STATEMENT OF ITS TERMS

8. FRONT PARKING SETBACK WILL BE 25' MINIMUM, AND IN ALL CASES BACK 5' MINIMUM FROM THE FRONT FACE OF THE BUILDING.

GENERAL NOTES:

1. ALL DIMENSIONS ARE GIVEN IN FEET AND DECIMAL PARTS THEREOF.
2. NO DIMENSIONS SHALL BE DERIVED FROM SCALE MEASUREMENT.

R2004-179070

MACKIE CONSULTANTS LLC
9575 W. HIGGINS RD., SUITE 500, ROSEMONT, IL 60018
847-696-1400 FAX 847-696-1410
ENGINEERS PLANNERS SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184-002894

CLIENT: BP
SEND TAX BILL TO:
BP PRODUCTS OF NORTH AMERICA
28100 TORCH PARKWAY
WARRENVILLE, ILLINOIS 60555

DATE	DESCRIPTION OF REVISION	BY
2-19-04	REVISED PER ATTORNEY'S COMMENTS	BJW
12-12-03	REVISED PER ATTORNEY'S COMMENTS	HAN
11-17-03	REVISED PER ATTORNEY'S COMMENTS	HAN

DESIGNED	BJW
DRAWN	HAN
APPROVED	BJW/DAG
DATE	10-27-03
SCALE	1"=30'

PLANNED UNIT DEVELOPMENT
BP - WINFIELD ROAD & WARRENVILLE ROAD
WARRENVILLE, ILLINOIS

SHEET 1 OF 2
PROJECT NUMBER: 931
FILE: ...\S\P\F\PLTSUB1.PLT

S:\1216\dB_CAD\Cadd Sheets\01216-sht-row plats.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	REVISED -	
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
WARRENVILLE ROW PLAT – EXISTING PERMANENT SIDEWALK EASEMENT
SCALE: NA SHEET 2 OF 3 SHEETS STA. NA TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	14
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

PART OF THE SE 1/4 SECTION 35, T39N, R9E OF THE 3rd PM, WINFIELD TOWNSHIP, DUPAGE COUNTY, ILLINOIS.

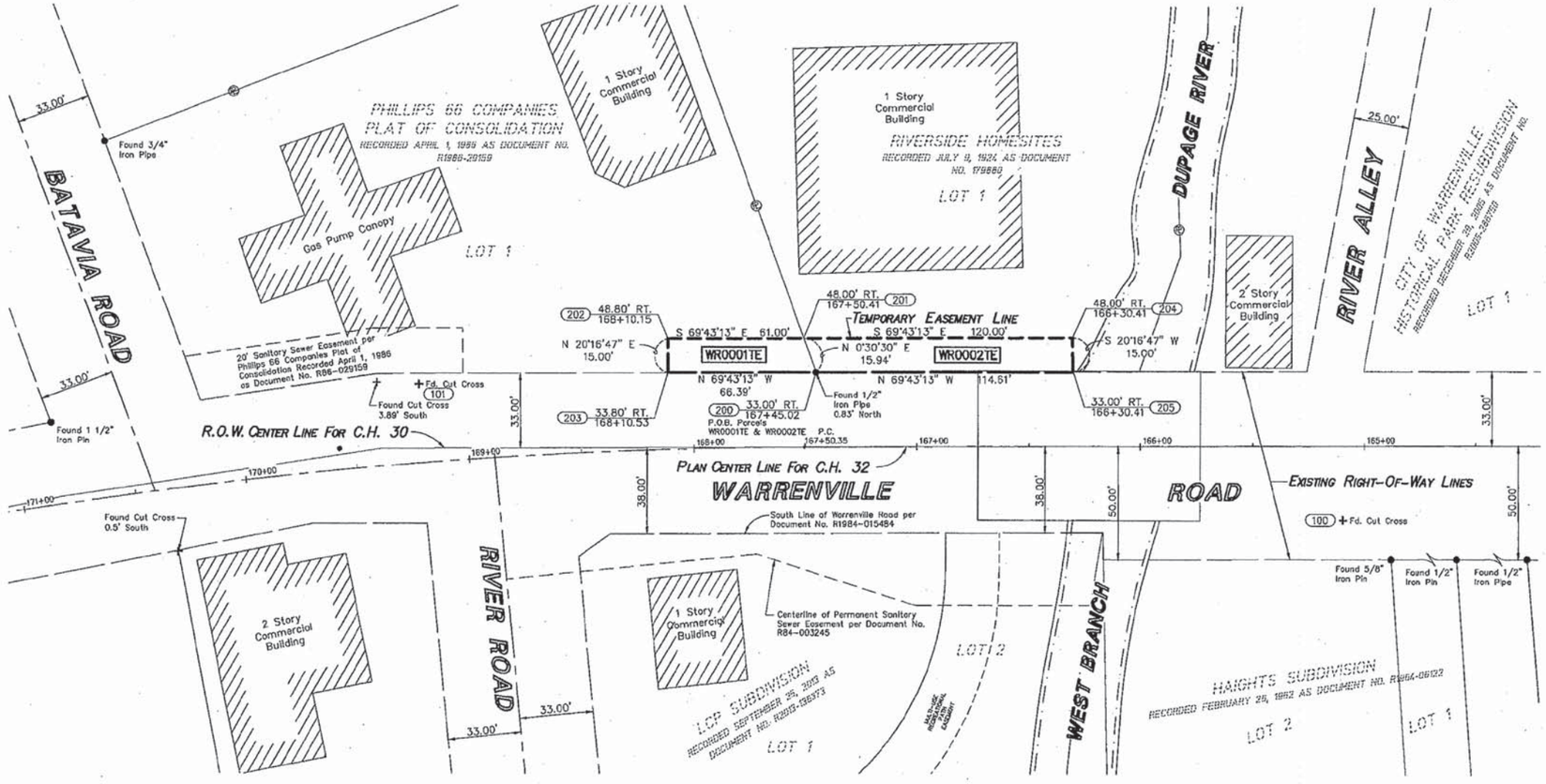
PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
WR0001TE	Gas Mart USA, Inc. a Corporation created and existing under and by virtue of the laws of the State of Missouri	0.974±	A=0.000	0.974±				04-35-403-021	
						A=0.022±	DRIVEWAY RECONSTRUCTION		
WR0002TE	Ellen L. Voegtle, as Trustee of the Ellen L. Voegtle Trust.	1.548±	A=0.000	1.548±				04-35-403-018	
						A=0.040±	DRIVEWAY RECONSTRUCTION		

CURVE DATA
EXISTING CENTERLINE
CURVE NO. EX-1

Δ = 10°20'00"
D = 2°30'00"
R = 2291.83'
L = 413.33'
T = 207.23'
E = 9.35'

(2000) PC STA. 167+50.35 N. 10632.1004 E. 9861.1463
(2001) PI STA. 169+57.58 N. 10703.9261 E. 9858.7649
(2002) PT STA. 171+63.68 N. 10739.7200 E. 9462.6527

COORDINATE TABLE				
NO.	STATION	OFFSET	NORTH	EAST
100	165+09.54	32.81' LT	10517.8592	10075.6558
101	169+19.95	34.65' RT	10718.2467	9709.5945
102	162+39.41	42.21' RT	10494.5979	10355.0406
200	167+45.02	33.00' RT	10661.2077	9877.5832
201	167+50.41	48.00' RT	10677.1467	9877.7245
202	168+10.15	48.80' RT	10698.2895	9820.5058
203	168+10.53	33.80' RT	10684.2193	9815.3067
204	166+30.41	48.00' RT	10635.5542	9990.2859
205	166+30.41	33.00' RT	10621.4841	9985.0869



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- RECORD DATA
- EXISTING BUILDING
- CHAIN LINK FENCE
- WOOD FENCE
- FENCE LINE

BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, N.A.D. 83 (2007)

SCALE : 1" = 30'

- ● IRON PIPE OR ROD FOUND
- ○ SET 5/8" x 30" REBAR
- \+ CUT CROSS FOUND OR SET
- ●PK FOUND PK NAIL
- OPK SET PK NAIL
- ● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
  T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED
  T3 BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
- ● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
  BT2 BURIED 5\8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
  BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- ■ STAKING OF PROPOSED RIGHT OF WAY.
  SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN.
  IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- ■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
  BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER. IDOT STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, MIDWEST TECHNICAL CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-002917, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 35, TOWNSHIP 39 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, DUPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DUPAGE COUNTY DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT NAPERVILLE, ILLINOIS THIS 1ST DAY OF MAY, 2014 A.D.

LEE S. SPRECHER, P.L.S.
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003436
LICENSE EXPIRES NOVEMBER 30, 2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Midwest Technical Consultants, Inc.
1805 N. MILL STREET, SUITE L
Naperville, ILLINOIS 60563
(630)505-0101

NOTES:

1) ALL COORDINATES SHOWN HEREON ARE PROJECT. ALL DISTANCES SHOWN HEREON ARE GROUND.

2) BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH LINE OF THE CITY OF WARRENVILLE HISTORICAL PARK RESUBDIVISION WHICH REPORTEDLY BEARS N 69°43'13" W..

PLAT OF HIGHWAYS
COUNTY OF DuPAGE
DIVISION OF TRANSPORTATION
COUNTY HI-WAY 32

SECTION: 84-00220-00 WR DUPAGE COUNTY
PROJECT: WARRENVILLE ROAD JOB NO.
STATION 164+50.00 TO STATION 171+00+00
SCALE: 1" = 30' SHEET 1 OF 1

JTK ADMINISTRATION BUILDING
421 N. COUNTY FARM ROAD
WHEATON, IL 60187-2553

COUNTY HI-WAY 32, SECTION 84-00220-00 WR DUPAGE COUNTY

MADE BY: LS

S:\121\85.CADD\Cadd Sheets\011216-sht-row plats.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -		REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
WARRENVILLE ROW PLAT – TEMPORARY EASEMENT

SCALE: NA | SHEET 3 OF 3 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	15
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

LEGEND

- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- PAVEMENT REMOVAL
- (ES12) REMOVE SIGN ASSEMBLY-TYPE A, REMOVE SIGN PANEL TYPE 1
- LINEAR REMOVAL
- TEMPORARY EASEMENT
- SIDEWALK EASEMENT
- TREE REMOVAL (6 TO 15 UNITS DIAMETER)
- ⊙R TREE REMOVAL (PER STD SPECIFICATION ARTICAL 201.10(a))

BATAVIA ROAD

ES01, ES05, ES06, ES01, ES10, ES07, ES08

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

SAWCUTTING TO BE INCLUDED IN THE COST OF "DRIVEWAY PAVEMENT REMOVAL" (TYPICAL)

165', COMBINATION CURB AND GUTTER REMOVAL
STA 7+79.7 TO STA 8+53.5

EXIST ROW

+79.7

+53.2, 30.7' LT

+94.5, 30' LT

ES12, ES13

BEGIN PROJECT
STA 8+00.0

60.6'

SAWCUTTING TO BE INCLUDED IN THE COST OF "PAVEMENT REMOVAL"

3 4 5+00 6 7 8

NOTE: THE CONTRACTOR SHALL PROVIDE ALL REMOVED SIGN PANELS TO THE DUPAGE COUNTY DOT. COST TO BE INCLUDED WITH "REMOVE SIGN ASSEMBLY-TYPE A" AND "REMOVE SIGN PANEL TYPE 1"

℄ WARRENVILLE ROAD

ES01, ES02, ES03, ES04

EXIST ROW

RIVER ROAD

20'

FROM STA 7+47.81, 25.14' RT
TO STA 7+52.19, 33.67' RT

EXIST ROW

STA 8+15.8, 36.45' RT

ES06, ES09

ES01, ES11

EXIST ROW

210', COMBINATIOIN CURB AND GUTTER REMOVAL
STA 8+00.0 TO STA 9+82.9

HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT

STA 8+85.78 TO STA 8+95.23

9+00.0, 38.2' RT

MATCH LINE STA 9+00

EXISTING SIGNS

ES01 STOP; ES02; ES03 COMMUNITY BAPTIST LIBRARY CITY HALL; ES04; ES05 BATAVIA RD; ES06 WARRENVILLE RD; ES07 SPEED LIMIT 25

ES08 WEIGHT LIMIT 4 TONS; ES09 RIVER RD; ES10 RIGHT TURN NO STOP; ES11; ES12 DUPAGE 32 COUNTY; ES13 END

GRAPHIC SCALE
20 0 20 40 60 80 100
FEET

N

S:\12165\B5_CADD\Cadd Sheets\101216-sht-removal01.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

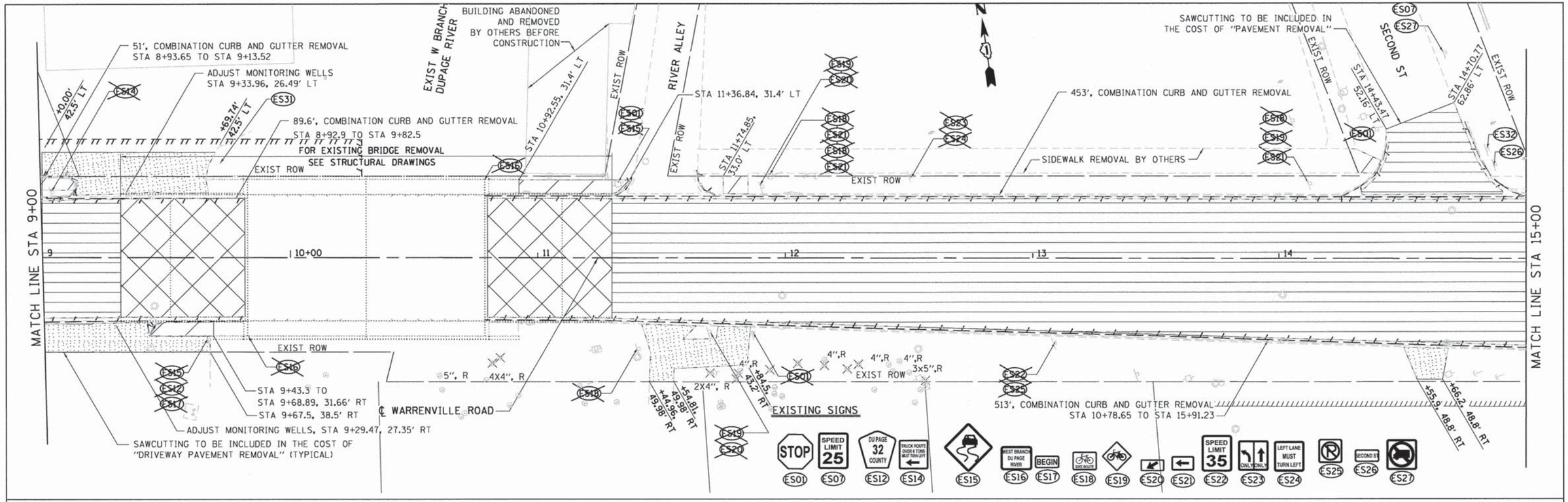
USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
REMOVAL PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	16
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			



S:\1216\05_CADD\Cadd Sheets\01216-sht-removal02.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - CJ	REVISED -	
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -	
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -	

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
REMOVAL PLAN

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 TO STA. 19+00

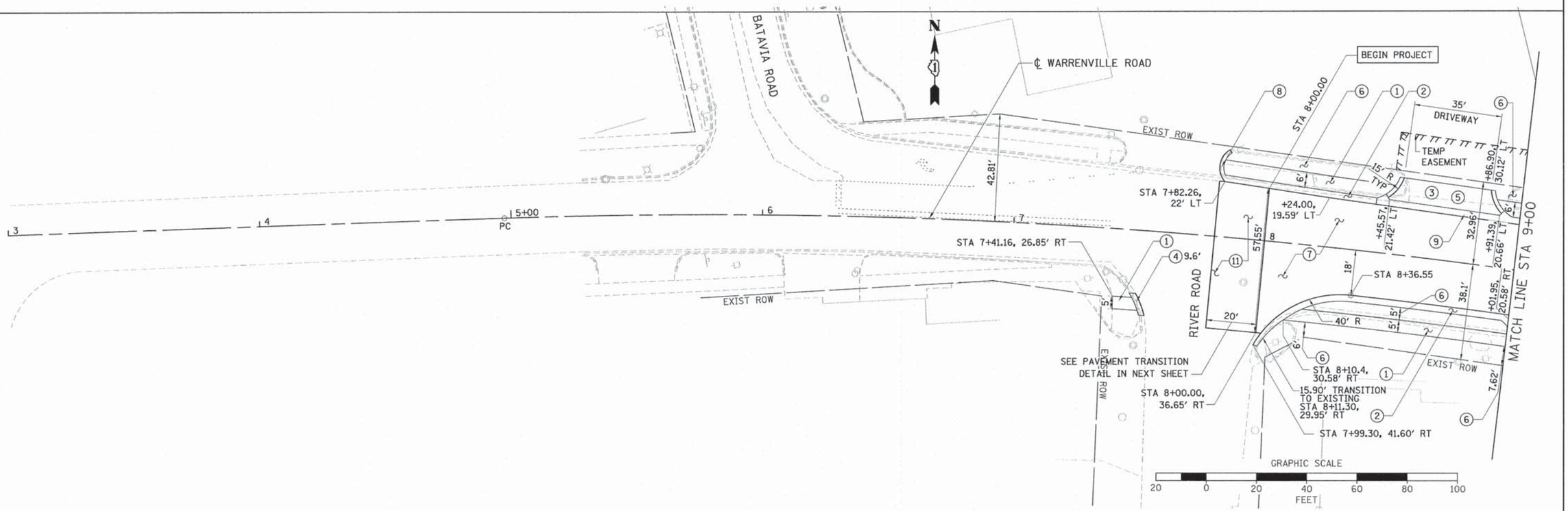
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	17
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

LEGEND

(1) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
(2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(3) HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (1.5")
(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
(5) HOT-MIX ASPHALT BASE COURSE, 8"
AGGREGATE BASE COURSE, TYPE B (6")
(6) PARKWAY, TOP SOIL FURNISH AND PLACE, 6"
(7) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm), 1.75"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2.25"
PORTLAND CEMENT CONCRETE BASE COURSE 10"
AGGREGATE SUBGRADE IMPROVEMENT 16"
(8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
(9) DEPRESSED CURB AND GUTTER, PAY AS (2)
(10) BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
(11) HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm), 1.75"
(12) ADJUST MONITORING WELLS
(13) AGGREGATE SHOULDERS, TYPE B, 6"

NOTES:

1. FOR DETECTABLE WARNINGS SEE PAVEMENT MARKING AND SIGNING PLAN
2. SIX FOOT TRANSITION FOR THE CURB HEIGHT FROM THE BRIDGE TO THE ROADWAY CURB HEIGHT
3. ALL WORK, MEANS AND METHODS TO DO THE PROPOSED WORK, HAS TO BE DONE FROM INSIDE THE ROW AT THOSE LOCATIONS WHERE NO EASEMENT IS PROVIDED.



BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED - RR/RA	REVISED -	
	DRAWN - RR/RA	REVISED -	
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -	
PLOT DATE = 12/19/2014	DATE - 10/20/2014	REVISED -	

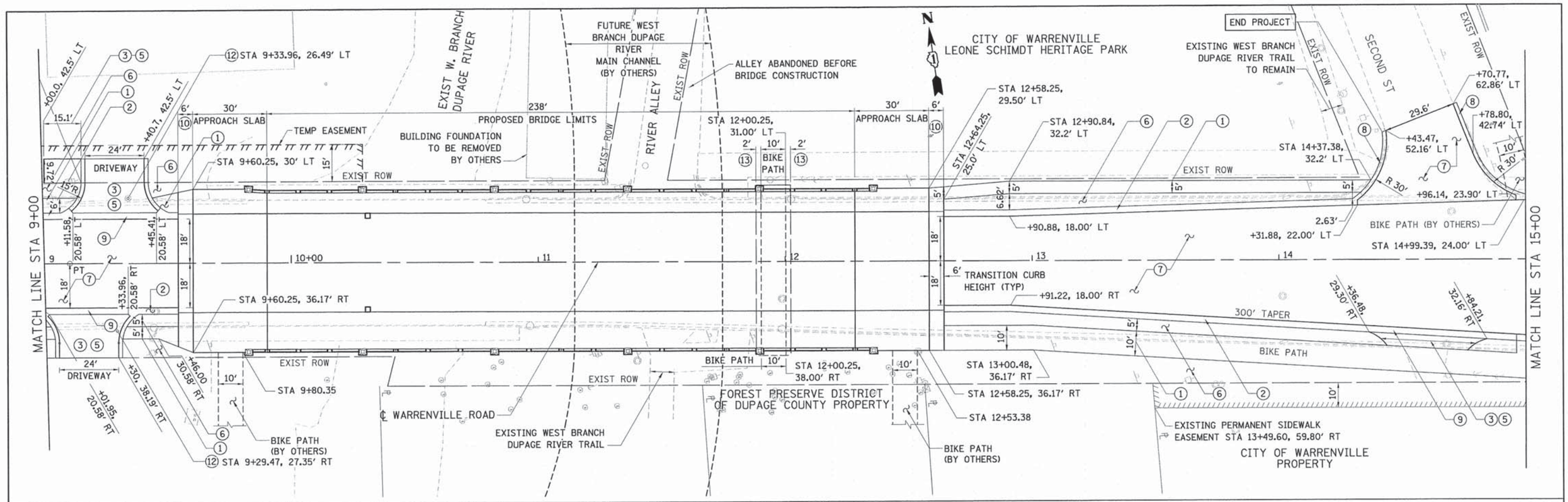
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

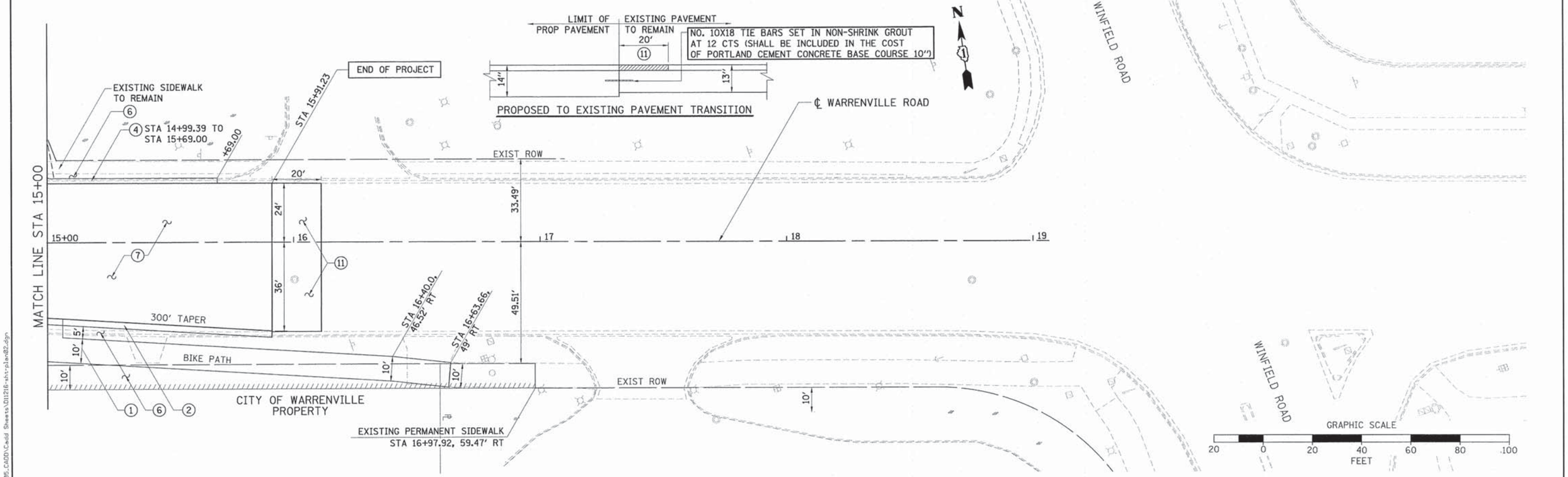
CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 | TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	18
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
		ILLINOIS FED. AID PROJECT		

S:\1216\BS_CADD\Cadd Sheets\011216-sht-plan01.dgn





BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED - RR/RA	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - RA	REVISED -	
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -	
	PLOT DATE = 12/19/2014	DATE - 10/20/2014	REVISED -	

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED PLAN

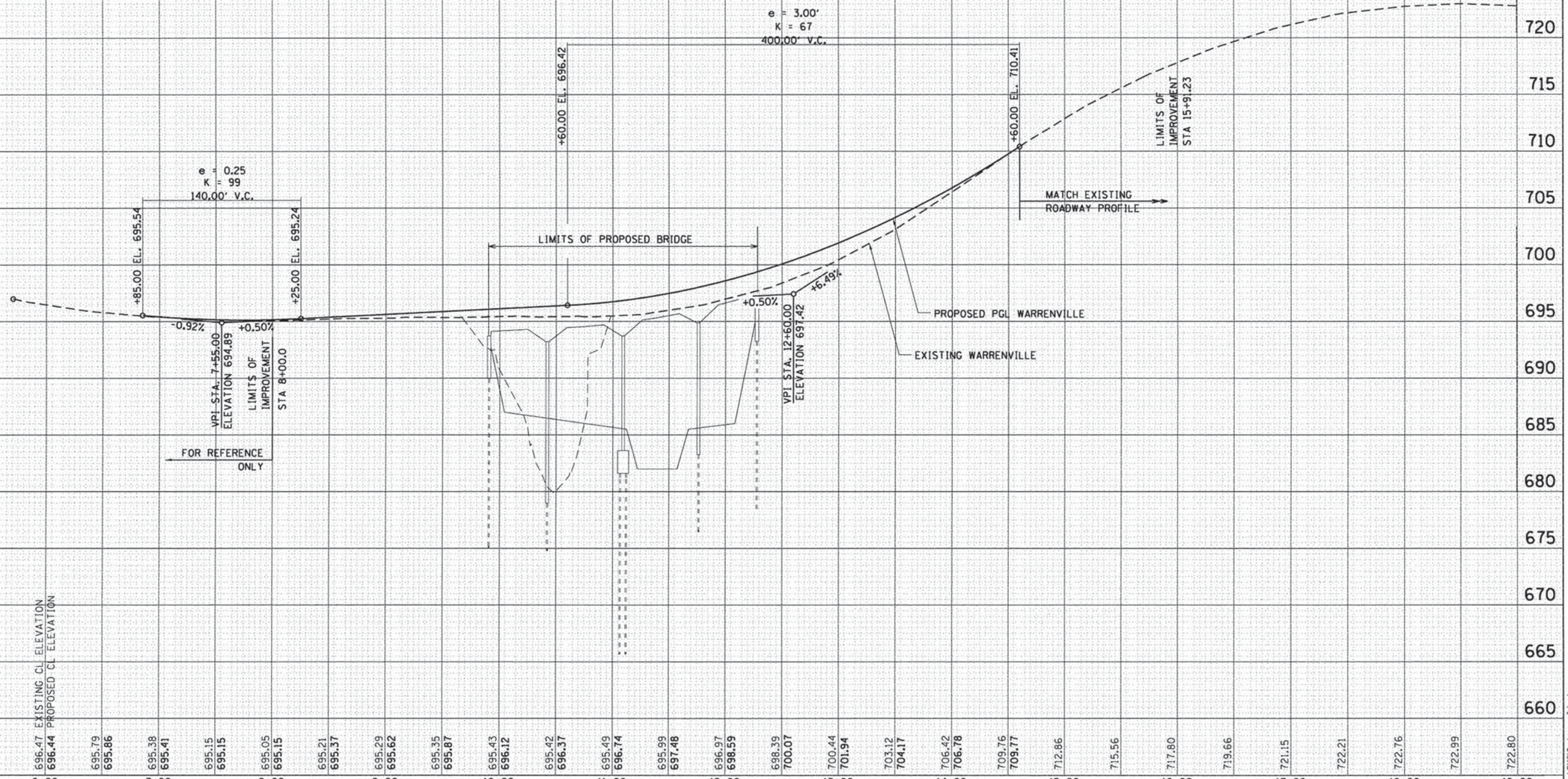
SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	19
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

S:\11216\05_CADD\Cadd Sheets\11216-sht-plan02.dgn

PLAN | SURVEYED | PLOTTED | AUTOMAT CHECKED | RT. OF WAY CHECKED | C400 FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | PROOF CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE



BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED - RR	REVISED -
	DRAWN - RR	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/28/2014	DATE 10/20/2014	REVISED -

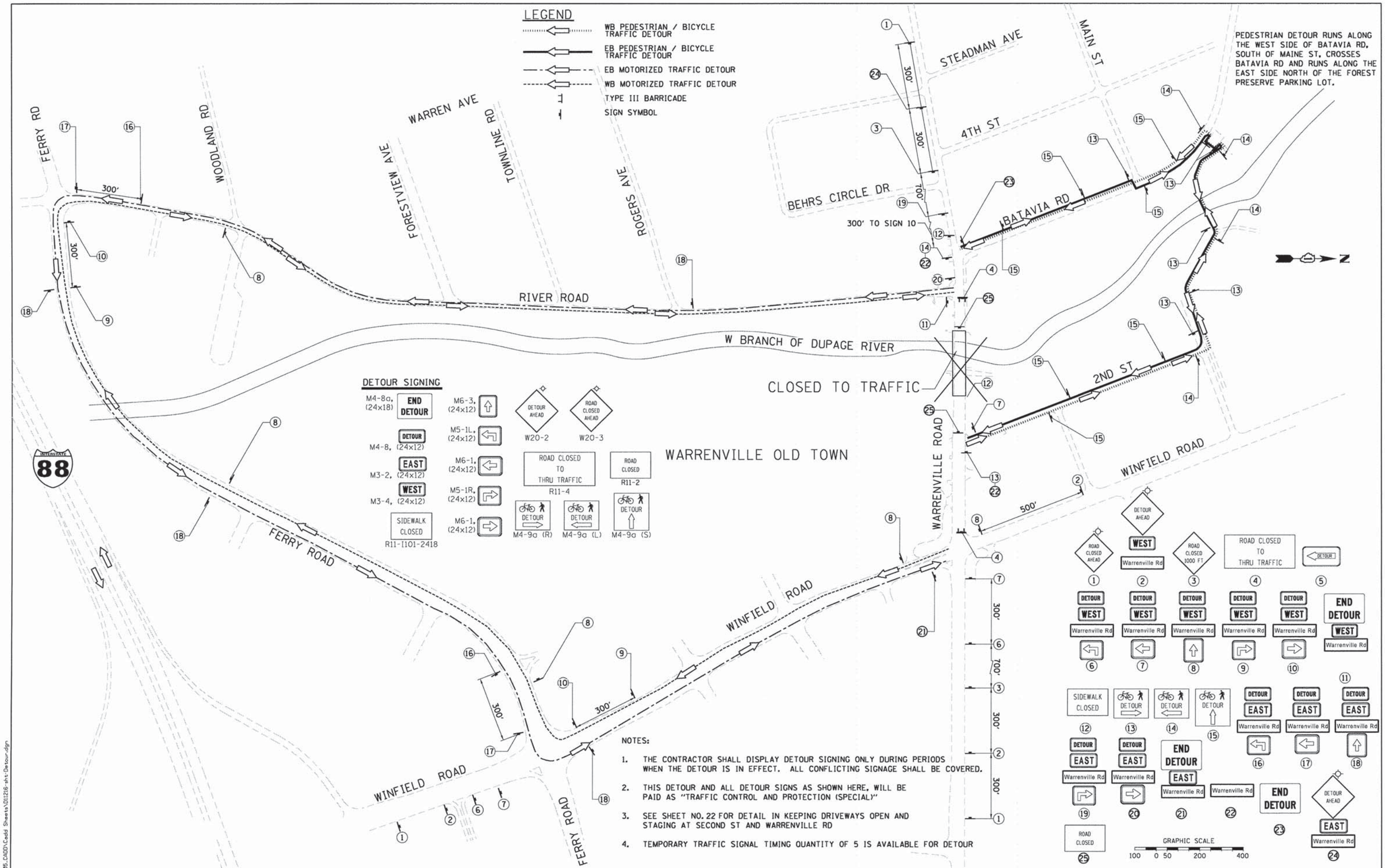
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED PROFILE

V:1"=5'
SCALE: H:1"=50" | SHEET 1 OF 1 SHEETS | STA. 6+00 | TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	20
	CH 32 WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\05_CADD\Cadd Sheets\011216-sht-profile.dgn



NOTES:

1. THE CONTRACTOR SHALL DISPLAY DETOUR SIGNING ONLY DURING PERIODS WHEN THE DETOUR IS IN EFFECT. ALL CONFLICTING SIGNAGE SHALL BE COVERED.
2. THIS DETOUR AND ALL DETOUR SIGNS AS SHOWN HERE, WILL BE PAID AS "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"
3. SEE SHEET NO. 22 FOR DETAIL IN KEEPING DRIVEWAYS OPEN AND STAGING AT SECOND ST AND WARRENVILLE RD
4. TEMPORARY TRAFFIC SIGNAL TIMING QUANTITY OF 5 IS AVAILABLE FOR DETOUR

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

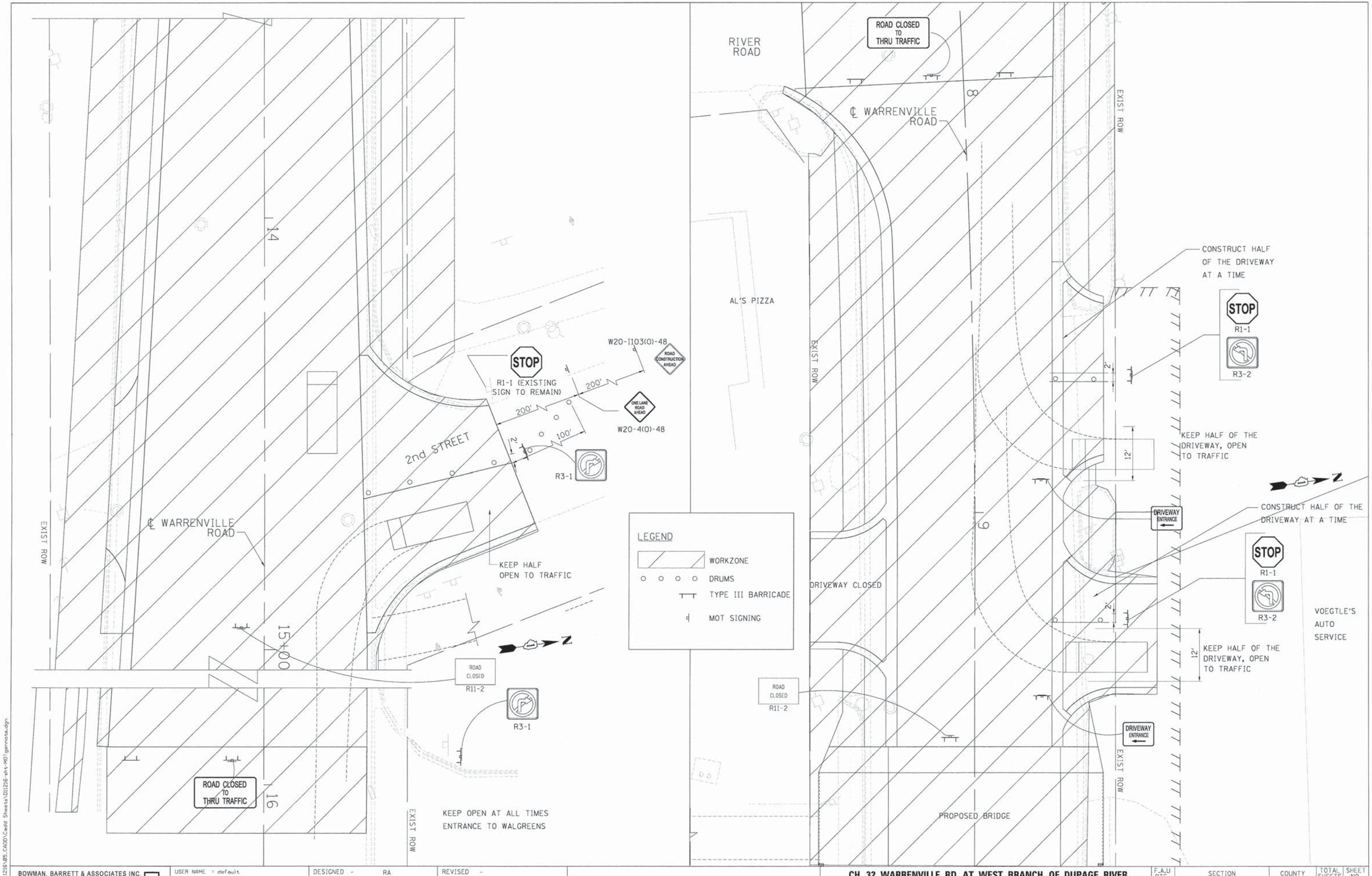
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED DETOUR PLAN

SCALE: 1" = 200' | SHEET 1 OF 1 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	21
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\05_CADD\Cadd Sheets\D11216-sht-Detour.dgn



S:\1216\085_CADD\Cadd Sheets\011216-sht-MOTgennote.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED - RA	REVISED -
		DRAWN - RA	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
DRIVEWAY ACCESS DETAIL AND
MAINTENANCE OF TRAFFIC GENERAL NOTES

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	22
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

MAINTENANCE OF TRAFFIC GENERAL NOTES

(1) ALL TRAFFIC CONTROL DEVICES AND SIGNAGE REQUIRED ON THE WARRENVILLE ROAD ARE IN ACCORDANCE WITH APPLICABLE IDOT DISTRICT 1 STANDARDS, IDOT HIGHWAY STANDARDS, AND THIS CONTRACT DRAWINGS ARE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)", AND WILL NOT BE PAID FOR SEPARATELY, UNLESS NOTED.

(2) ALL DRUMS, VERTICAL PANELS, AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH BIDIRECTIONAL STEADY BURN LIGHTS. CONES WILL NOT BE ALLOWED, UNLESS NOTED. DRUM SPACINGS SHALL BE 25' CENTER TO CENTER ALONG SECOND STREET. HAVE AT LEAST 2 DRUMS EQUALLY SPACED AT DRIVEWAYS WHEN BUILDING HALF AND ALLOWING TRAFFIC IN THE OTHER HALF.

(3) ANY EXISTING SIGNS DENOTED WITHIN THE PLAN SET THAT DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS SHALL BE REMOVED OR COVERED, AS DIRECTED BY THE ENGINEER. THE COVERING OR REMOVAL OF GROUND MOUNTED SIGNS SHALL BE NON-DESTRUCTIVE IN NATURE AND WILL NOT BE MEASURED FOR PAYMENT BUT IS CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"

(4) ADVANCED SIGNING PER IDOT DISTRICT 1 DETAIL TC-22 AND/OR CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF ROAD WORK IN BOTH TRAFFIC DIRECTIONS ALONG WARRENVILLE ROAD. THESE SIGNS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "TEMPORARY INFORMATION SIGNING" OR "CHANGEABLE MESSAGE SIGN".

(5) INSTALL DRIVEWAY ENTRANCE SIGN, AS PER IDOT STD TC-26. DRIVEWAY SIGNS WILL BE PAID AS "TEMPORARY INFORMATION SIGNING" MAINTAIN ACCESS CONTROL TO THE DRIVEWAYS BY CONSTRUCTING HALF AND MAINTAINING ACCESS IN THE OTHER HALF, SEE DETAIL IN THIS SHEET. ACCESS TO ALL BUSINESSES WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS NOTED IN PLANS.

(6) FOR THE EXISTING SIGNING REMOVAL, SEE THE REMOVAL PLAN. FOR DETOUR SIGNING, SEE SHEET NO.21

(7) THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PLACEMENT AND MESSAGES FOR ALL CHANGEABLE MESSAGE SIGNS WITH THE ENGINEER. PROVIDED BELOW FOR INFORMATION ONLY ARE ANTICIPATED LOCATIONS AND DURATIONS AT EACH LOCATION FOR PORTABLE CHANGEABLE MESSAGE SIGNS: EB WARRENVILLE; WB WARRENVILLE AND NB AND SB WINFIELD RD

(8) THE CONTRACTOR IS RESPONSIBLE FOR KEEPING RIVER ALLEY OPEN TO TRAFFIC TO ACCESS THE ALBRIGHT STUDIO MUSEUM. COORDINATION WITH OTHER CONTRACT IS REQUIRED TO MAINTAIN ACCESS.

(9) THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE EXISTING BIKEPATH AND DRIVEWAYS OPEN AT ALL TIMES DURING CONSTRUCTION. PAY ITEM, "TEMPORARY AGGREGATE" WOULD BE USE FOR THE TEMPORARY BIKEPATH AND DRIVEWAY ACCESS. ASSUMED LENGTHS OF 375' PLUS 275' AND A WIDTH OF 10' FOR TEMPORARY BIKEPATH ACCESS AND 14' WIDTH BY 25' LONG FOR DRIVEWAY ACCESS INSTALLED TWICE. REMOVAL OF THE "TEMPORARY AGGREGATE" IS INCIDENTAL TO THE PAY ITEM INSTALLATION. CONTRACTOR SHOULD DETERMINE LOCATION OF BIKEPATH IN A SAFE AREA FOR BIKERS DURING CONSTRUCTION.

(10) THE TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.

(11) EXISTING TRAFFIC CONTROL SIGNS AND DEVICES WILL BE REMOVED BY THE DU PAGE COUNTY DIVISION OF TRANSPORTATION AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE RELOCATED, MAINTAINED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGED OR LOST SIGNS WILL BE REPLACED BY THE CONTRACTOR.

(12) TYPE I OR TYPE II BARRICADES, DRUMS, OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS SHALL BE REQUIRED ALONG TEMPORARY ROADS, DETOURS, AND SIDE STREETS TO DELINEATE THE TRAVELED WAY WITHIN THE CONSTRUCTION ZONE. THE MAXIMUM SPACING FOR THESE DEVICES SHALL BE 100 FEET CENTER TO CENTER.

(13) ANY DROP OFF GREATER THAN THREE (3) INCHES WITHIN SIXTEEN (16) FEET OF A TRAVEL LANE SHALL BE PROTECTED BY TYPE I OR TYPE II BARRICADES, DRUMS OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS AT 50 FOOT (MAXIMUM) CENTER TO CENTER SPACING. IF THE DROP OFF IS GREATER THAN TWENTY-FOUR (24) INCHES AND EXISTS FOR LONGER THAN 24 HOURS, IT SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER. TEMPORARY CONCRETE BARRIER SHALL HAVE MONODIRECTIONAL STEADY-BURN LIGHTS AT 50 FOOT (MAXIMUM) CENTER TO CENTER SPACING. THE CONTRACTOR SHALL SCHEDULE HIS WORK AND OPERATIONS SUCH THAT A DROP OFF OF GREATER THAN 24 INCHES DOES NOT REMAIN WITHIN SIXTEEN FEET OF A TRAVEL LANE FOR MORE THAN 24 HOURS. THE CONTRACTOR MAY PLACE COMPACTED EXCAVATED MATERIAL, AGGREGATE, OR OTHER MATERIAL IN THE DROP OFF TO SATISFY THIS REQUIREMENT. THE PLANS INDICATE AREAS (IF ANY) IN WHICH THE DEPARTMENT EXPECTS THAT TEMPORARY CONCRETE BARRIER WILL BE REQUIRED FOR A DROP OFF OF GREATER THAN 24 INCHES TO REMAIN FOR MORE THAN 24 HOURS. THE FURNISHING, PLACING, AND REMOVAL OF MATERIAL, OR ANY TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS, NOT SHOWN ON THE PLANS BUT REQUIRED IN ORDER TO MEET THESE REQUIREMENTS, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

(14) BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.

(15) TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.

(16) TYPE I, II AND / OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.

(17) THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, WARNING LIGHTS, AND SIGNS WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.

(18) WHERE REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH STAGE OF CONSTRUCTION.

(19) ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.

(20) CONSTRUCTION STAGING
THE FOLLOWING IS THE CONSTRUCTION STAGING FOR THIS PROJECT. THE PURPOSE OF THIS STAGING IS TO MINIMIZE DELAYS TO THE MOTORIST. THE CONTRACTOR MAY ALTER THE SEQUENCE OF CONSTRUCTION WITH THE PRIOR APPROVAL OF THE ENGINEER.

(21) PRIOR TO THE START OF CONSTRUCTION, REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE. SEE SPECIAL PROVISION "TRAFFIC CONTROL PLAN" AND "TRAFFIC CONTROL AND PROTECTION (ARTERIALS)" FOR ADDITIONAL INFORMATION REQUIREMENTS.

S:\1216\85.CADD\Cadd Sheets\011216-sht-MOTgennote.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 12/28/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
DRIVEWAY ACCESS DETAIL AND
MAINTENANCE OF TRAFFIC GENERAL NOTES

SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	23
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

EROSION CONTROL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE VII OF THE DuPAGE COUNTY COUNTYWIDE STORMWATER AND FLOOD PLAIN ORDINANCE, EFFECTIVE APRIL 2013 AND ALL SUBSEQUENT REVISIONS. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER IDOT STANDARD 280001 OR AS SPECIFIED HEREIN AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.

2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.

3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.

4. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE SEEDED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED.

5. WHERE WETLANDS ARE TO REMAIN, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF OR STOCKPILED IN WETLANDS.

6. STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, WETLAND BUFFERS, AND FLOOD PLAINS. LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.

7. RECEPTACLES FOR CONSTRUCTION DEBRIS, INCLUDING CONCRETE TRUCK WASHOUT WASTE, SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THESE WILL NOT BE ALLOWED IN SPECIAL MANAGEMENT AREAS. RECEPTACLES AND THEIR LOCATIONS MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE APPLICABLE ITEMS OF WORK

8. HAY OR STRAW BALES WILL NOT BE ALLOWED AS PERIMETER EROSION BARRIER OR AS A DITCH CHECK.

9. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

10. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.

11. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.

12. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.

13. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

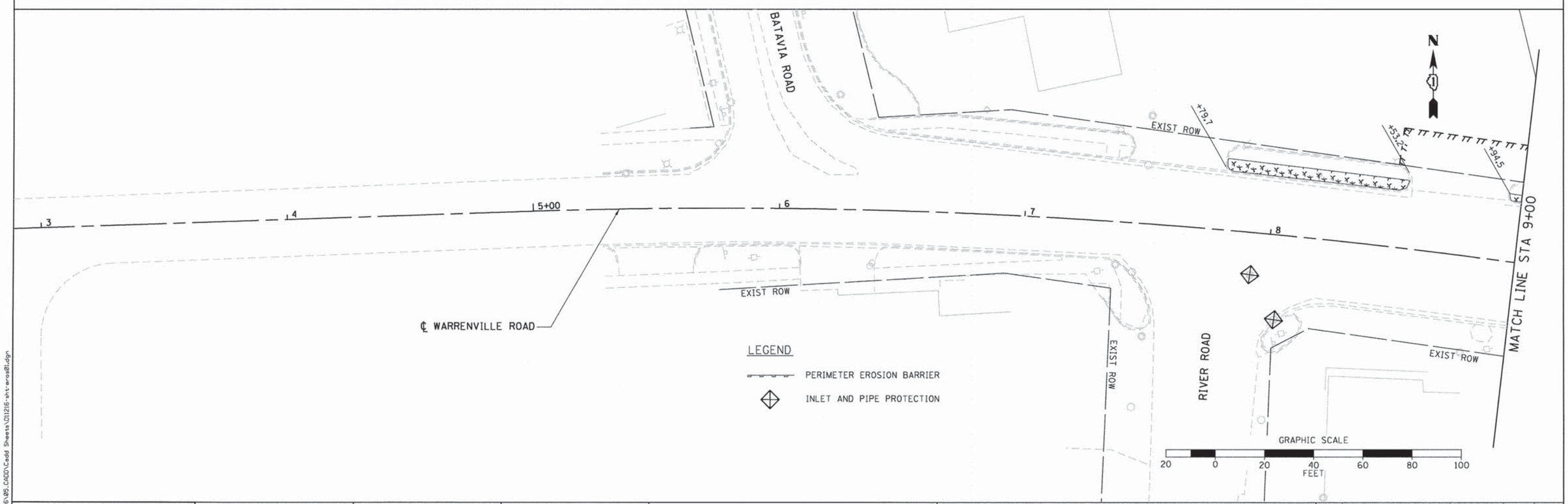
14. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.

15. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.

16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.

17. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.

18. THE COST OF REMOVING SEDIMENT OR REPAIRING EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.



S:\1216\05_CADD\Cadd Sheets\011216-sht-eros01.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 | TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	24
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

LEGEND

PERIMETER EROSION BARRIER

INLET AND PIPE PROTECTION

INLET FILTERS

42' DOUBLE ROW OF PERIMETER EROSION BARRIER

STA 9+66.75, 36.2' LT

62' PERIMETER EROSION BARRIER

STA 10+15.4, 36.0' LT

33' DOUBLE ROW OF PERIMETER EROSION BARRIER

STA 11+65.0, 33.0' LT

273' PERIMETER EROSION BARRIER

STA 14+37.0, 33.2' LT

EXIST ROW

SECOND ST

8.5'

MATCH LINE STA 9+00

MATCH LINE STA 15+00

9 | 10+00 | 11 | 12 | 13 | 14

STA 9+67.5, 38.2' RT

38' PERIMETER EROSION BARRIER

STA 9+93.6, 38.2' RT

35' DOUBLE ROW OF PERIMETER EROSION BARRIER

35' DOUBLE ROW OF PERIMETER EROSION BARRIER

STA 10+66, 50.0' RT

STA 11+09.84, 50.0' RT

622' PERIMETER EROSION BARRIER

HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL
AS NEEDED AT RIVER LIMITS

℄ WARRENVILLE ROAD

STA 14+40.0, 49.7' RT

STA 15+00.0, 59.8' RT

WINFIELD ROAD

86' PERIMETER EROSION BARRIER

STA 15+79.5, 27.8' LT

2.1'

INLET FILTERS

15+00 | 16 | 17 | 18 | 19

10'

STA 15+00.0, 59.8' RT

PERIMETER EROSION BARRIER

STA 16+63, 59.46' RT

GRAPHIC SCALE

20 0 20 40 60 80 100

FEET

S:\1216\05.CADD\Cadd Sheets\051216-sht-eros02.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

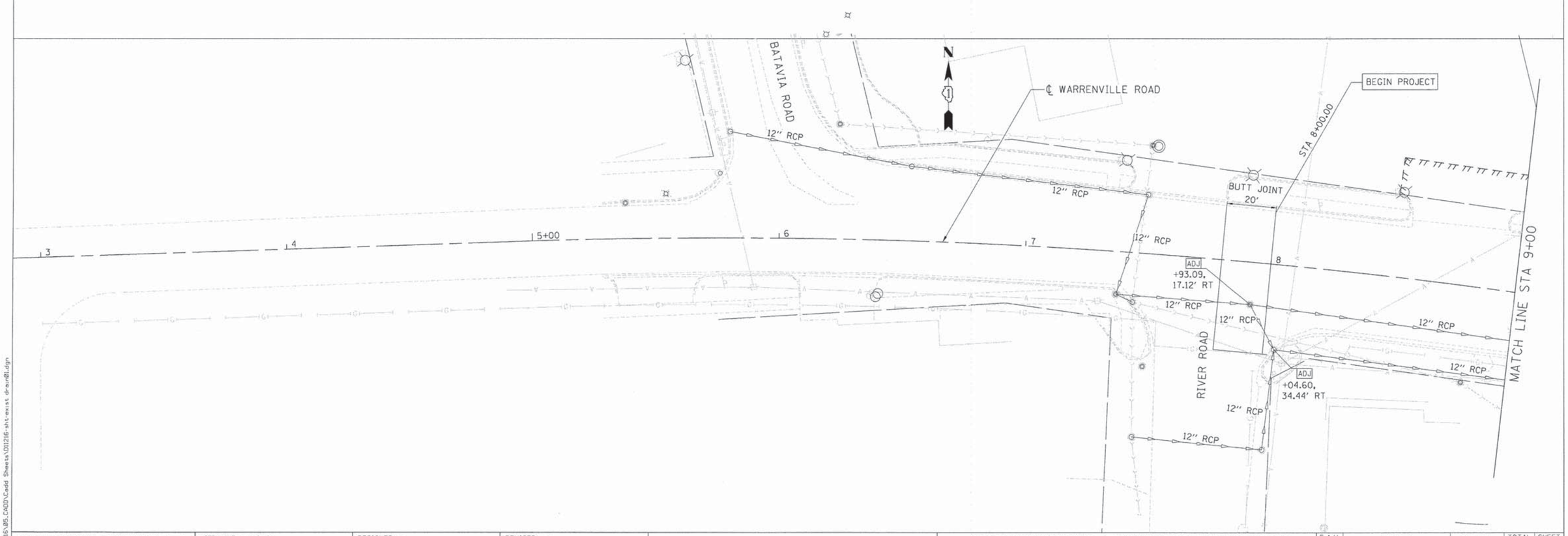
CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 | TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	25
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

LEGEND

- EXISTING INLET
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING END SECTION
- EXISTING STORM SEWER
- ADJ — DRAINAGE STRUCTURE ADJUSTMENT
- R — DRAINAGE STRUCTURE REMOVAL
- STORM SEWER REMOVAL



S:\1216\85_CADD\Cadd Sheets\01216-sht-exist drain01.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

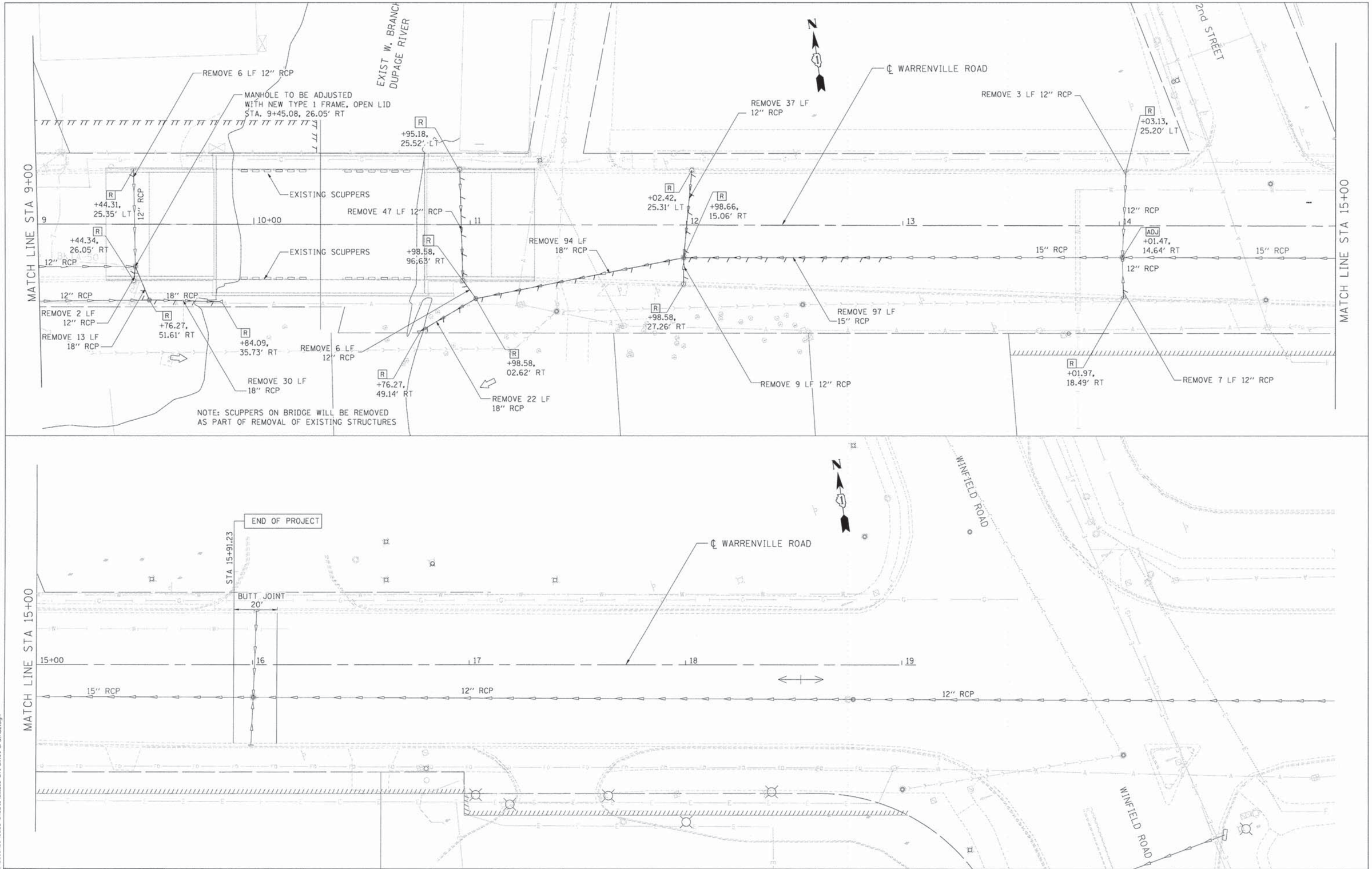
USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EXISTING DRAINAGE PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	26
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



S:\1216\05_CADD\Cadd Sheets\1011216-sht-exist drain02.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EXISTING DRAINAGE PLAN

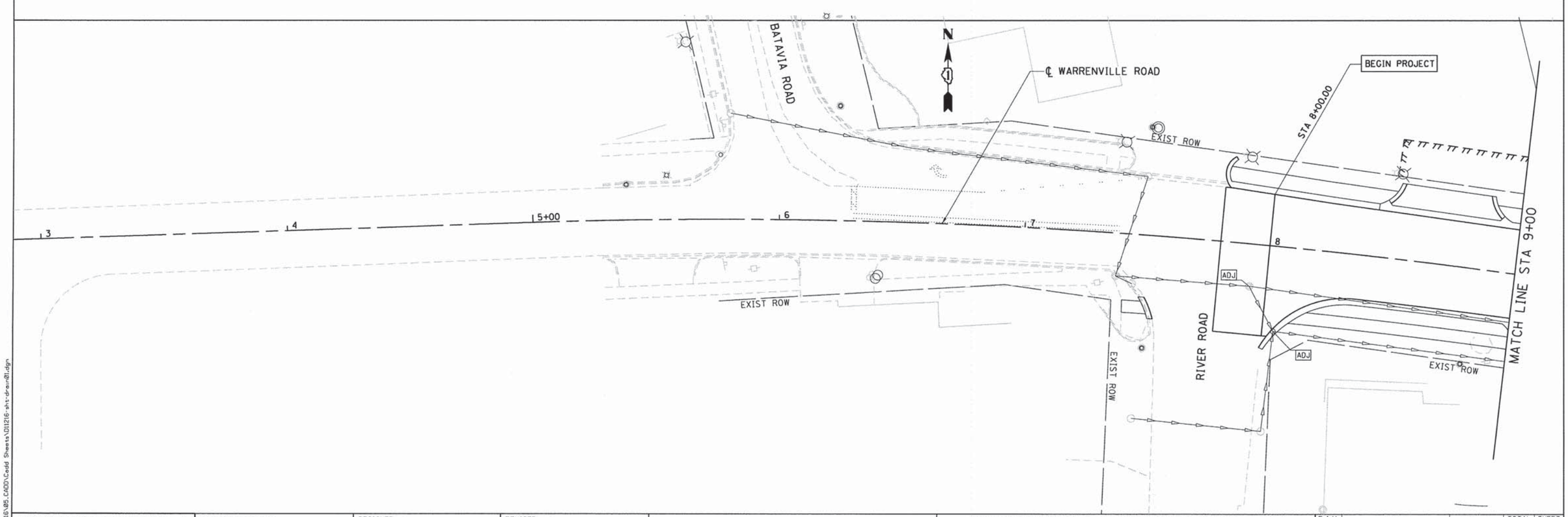
SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 | TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	27
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

LEGEND

- PROPOSED INLET
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED END SECTION
- PROPOSED STORM SEWER

NOTE: SEE EXISTING DRAINAGE
FOR STRUCTURE ADJUSTMENTS



S:\1216\05_CADD\Cadd Sheets\101216-sht-drain01.dgn

BOWMAN, BARRETT & ASSOCIATES INC
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED DRAINAGE PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	28
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

MAN TA 4' T1F CL
STA. 9+44.41
18' LT
RIM EL=695.85
E INV=689.74
S INV=689.64

11' - 18" SS
CL A 2
6.5 CY TRENCH BF
RCP @ 0.3%

5' - 12" SS CLA 2
1.2 CY TRENCH BF
RCP @ 0.3%

CB TA 4' T24F&G
STA. 9+53.06
18' LT
RIM EL= 695.52
INV=689.73

EXIST W. BRANCH DUPAGE RIVER

PROPOSED DS-12M10 SCUPPER
FREE FLOW DIRECTLY TO RIVER
BELOW (TYP), 10+31.00

EXIST ROW

EXIST ROW

6' - 12" SS CL A 2 3.0 CY TRENCH BF
RCP @ 0.44%

EXIST ROW

℄ WARRENVILLE ROAD

CB TA 4' T24F&G
STA. 12+95.91, 18.14' LT
RIM EL=701.41, INV=694.25

31' - 12" SS CL A 2
23.4 CY TRENCH BF RCP @ 0.46%

MAN TA 4' T1F CL
STA. 12+95.91, 14.88' RT
RIM EL=701.47
S INV=694.01, SW INV=694.11
N INV=694.11, E INV=694.16

EXIST ROW

2nd STREET

EXIST ROW

EXIST ROW

MATCH LINE STA 9+00

CB TA 4'
T24F&G
STA. 9+30.64
9 31.32' RT
RIM EL=695.15
INV=689.95

ADJ

MAN TA 4' T1F CL, STA. 9+52.78
16.06' RT, RIM EL=695.56
S INV=688.36, E INV=688.26

10+00 | 11 | 12 | 13 | 14

PRC FLAR END SEC 18"
STA. 10+01.48, 16.06' RT
INV=688.14

47' - 18" SS CL A 1
2.3 CY TRENCH BF
DUCTILE IRON @ 0.27%

CB TA 4' T24F&G
STA. 14+03.01, 21.22' LT
RIM EL=706.53, INV=701.99

MATCH LINE STA 15+00

MAN TA 4'
T1F CL
STA. 9+44.35
26.05' RT
RIM EL=696.17
N INV=689.77
E INV=688.49
S INV=689.914
W INV=689.914

3' - 18" SS
CL A 2 RCP @ 0.3%
0.7 CY TRENCH BF

EXIST ROW

6' - 18" SS CL A 2 3.9 CY TRENCH BF
RCP @ 0.30%

MAN TA 4' T1F CL, STA. 9+52.77
26.10' RT RIM EL=696.18
W INV=688.48 N INV=688.38

4.4' - 18" SS CL A 2 2.4 CY TRENCH BF
RCP @ 0.27%

MAN TA 4' T1F CL
STA. 9+47.82, 35.08' RT
RIM EL=695.72, NW INV=689.92, W INV= EXIST.

PROPOSED
DS-12M10
SCUPPER
10+31.00

EXIST ROW

WEST BRANCH DUPAGE RIVER

PRC FLAR END SEC 18"
STA. 12+22.33, 42.38' RT
INV=698.85

65.5' - 18" SS CL A 2
RCP @ 0.26%

CB TA 4' T24F&G
STA. 12+72.84, 18' RT
RIM EL=701.33, INV=694.20

23.5' - 18" SS CL A 2
26.8 CY TRENCH BF RCP @ 0.34%

MAN TA 4' T1F CL
STA. 12+95.91, 42.38' RT
RIM EL=705.01
N INV=693.93, W INV=690.02

19.5' - 12" SS CL A 2
21.3 CY TRENCH BF RCP @ 0.46%

CB TA 4' T24F&G
STA. 14+01.77, 24.63' RT
RIM EL=706.39, INV=701.96

WINFIELD ROAD

END OF PROJECT

STA 15+91.23

℄ WARRENVILLE ROAD

MATCH LINE STA 15+00

EXIST ROW

15+00 | 16 | 17 | 18 | 19

EXIST ROW

WINFIELD ROAD

S:\1216\85.CADD\Cadd Sheets\101216-sht-dren02.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -
		DRAWN - CJ	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED DRAINAGE PLAN

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 | TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	29
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

LEGEND:

LONGITUDINAL SAWED OR CONSTRUCTION JOINT PER STD. 420001
(SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE BASE COURSE 10")

EXIST ROW

10' TRANSITION +2% TO -2%

SEE BRIDGE APPROACH PAVEMENT CONNECTOR DETAIL

6'

SEE STRUCTURAL PLANS

10' TRANSITION -2% TO +1.7%

10' TRANSITION TO MEET EXISTING ELE AT STA 8+00

PGL

EL 695.80

EL 695.92

EL 695.80

8

9

10+00

2'

STA 8+00.00, 36.65' RT

EXIST ROW

10' TRANSITION +2% TO -2%

10' TRANSITION -2% TO +1.7%

SEE STRUCTURAL PLANS

SEE BRIDGE APPROACH PAVEMENT CONNECTOR DETAIL

6'

STA 12+90.88

EXIST ROW

GRAPHIC SCALE

10 0 10 20 30 40 50

FEET

N

STA 14+96.14, 23.90' LT, EL 712.15

STA 14+99.39, 24' LT

STA 15+06.52, 24' LT

15'

EXIST ROW

STA 14+31.89, 22.05' LT
EL 708.20

PGL

EL 700.24

EL 700.36

EL 700.24

13

14

15+00

16

10' TRANSITION TO MEET EXISTING ELE AT STA 15+91.23

STA 12+91.22

STA 13+56.82, 19.93' RT
EL 704.11

STA 14+95.84, 12' RT

10' TRANSITION +1.7% TO -2%

EXIST ROW

EXIST ROW

S:\1216\05_CADD\Cadd Sheets\011216-sht-pvt_jointdtl.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED - RA	REVISED -
		DRAWN - RA	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED JOINTING PLAN

SCALE: 1"=10' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	30
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

LEGEND

EXISTING

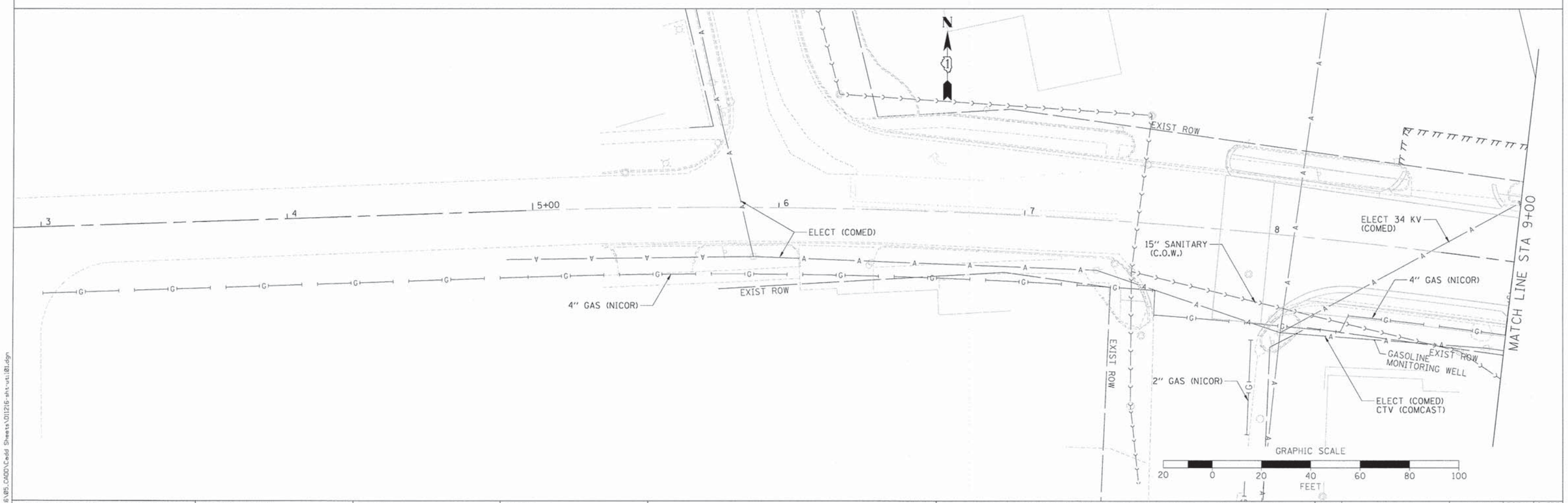
- A — AERIAL UTILITY
- CTV — CABLE TV
- E — ELECTRICAL
- T — TELEPHONE/COMMUNICATIONS
- W — WATER MAIN
- FO — FIBER OPTIC
- G — GAS
- O — OIL/GAS PIPELINE
- ROW — RIGHT OF WAY
- S — SANITARY
- STM — EXISTING STORM SEWER (SEE NOTE 1)

C.O.W CITY OF WARRENVILLE

D.W.C. DUPAGE WATER COMMISSION

NOTES

1. EXISTING STORM SEWER SHOWN ON THE UTILITY DWGS FOR REFERENCE. SEE PROPOSED DRAINAGE PLANS FOR REMOVAL DETAILS.
2. LOCATION OF EXISTING UTILITIES ARE ESTIMATED FROM EXISTING ATLAS INFORMATION. DEPTH OF UTILITIES SHOWN ON DWGS HAVE BEEN ESTIMATED FROM EXISTING ATLAS INFORMATION OR AVERAGE DEPTHS PROVIDED BY THE UTILITY OWNER.



S:\1216\05_CADD\Cadd Sheets\D1216-sht-util01.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

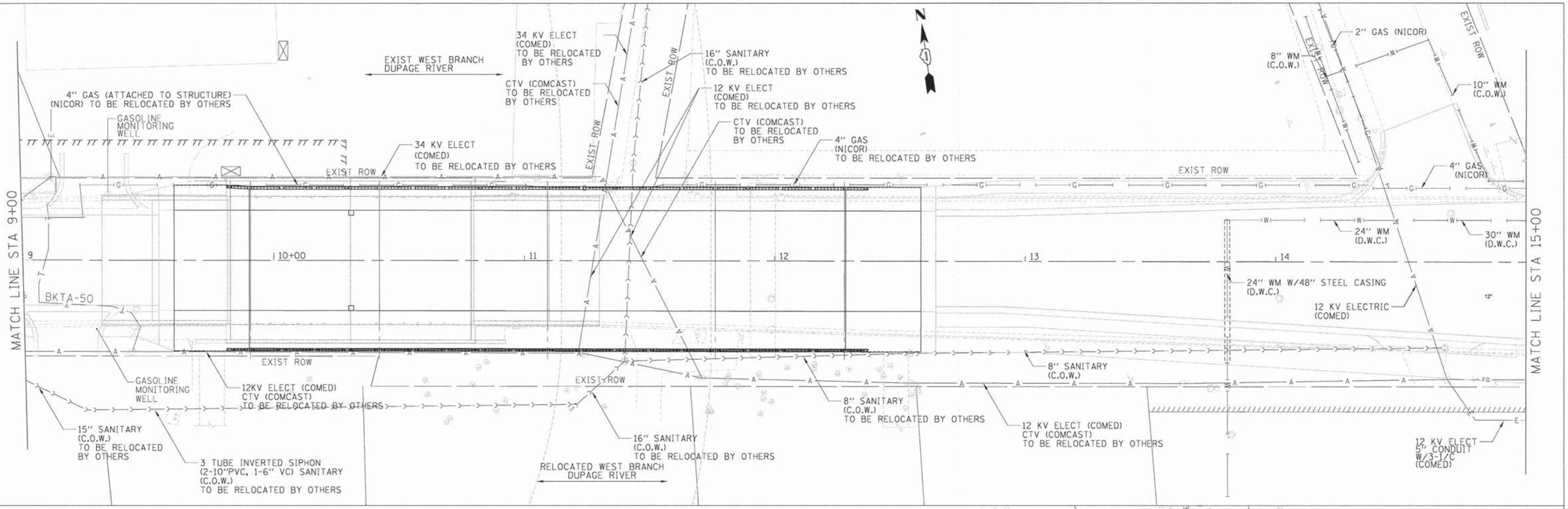
USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EXISTING UTILITIES

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	31
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



S:\12165\05_CADD\Cadd Sheets\D12165-sht-ut102.dgn

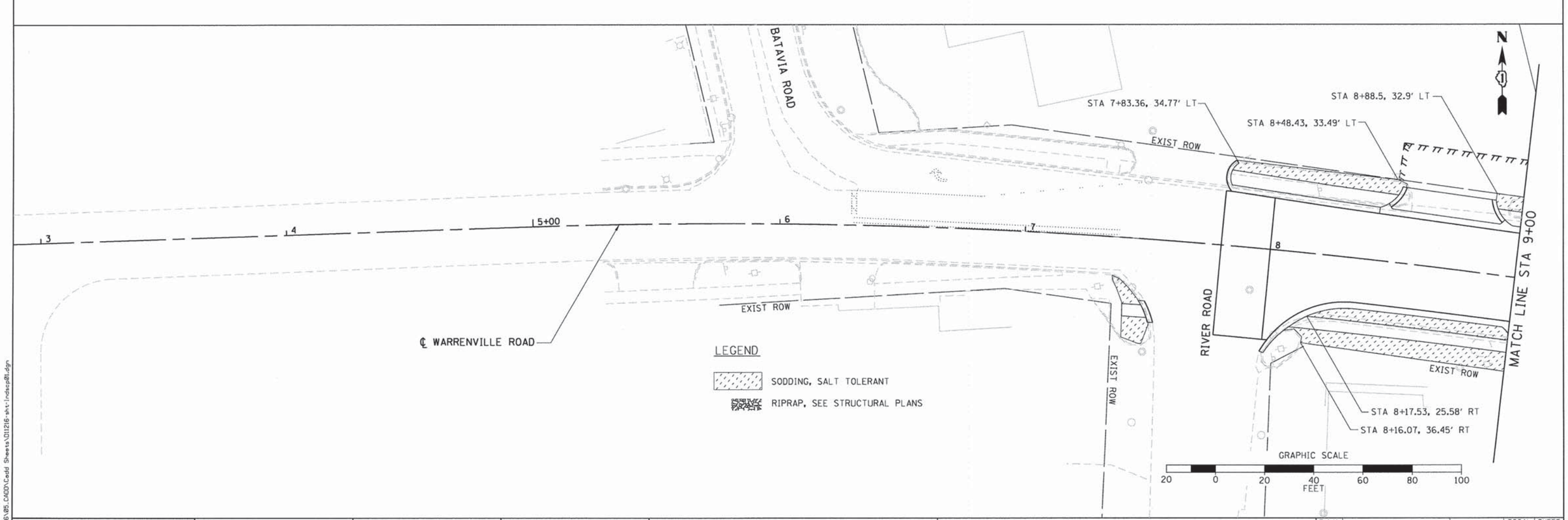
BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -
		DRAWN - CJ	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
EXISTING UTILITIES

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	32
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			



S:\12161\05_CADD\Cadd Sheets\012161-sht-lndscp01.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED - RA	REVISED -	
		DRAWN - RA	REVISED -	
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -	
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
LANDSCAPING PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	33
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

LEGEND

SODDING, SALT TOLERANT

RIPRAP, SEE STRUCTURAL PLANS

SEEDING, CLASS 3

N

EXIST W. BRANCH DUPAGE RIVER

EXIST ROW

STA 9+14.91, 32.8' LT

STA 9+42.08, 42.5' LT

STA 10+25.0, 42.5' LT

STA 10+29.25, 33.0' LT

STA 11+65.0, 33.0' LT

STA 12+90.84, 27.2' LT

℄ WARRENVILLE ROAD

STA 14+32.5, 33.3' LT

STA 14+33.13, 27.2' LT

SECOND ST

STA 14+93.6, 28.0' LT

MATCH LINE STA 9+00

MATCH LINE STA 15+00

9

10+00

11

12

13

14

STA 12+58.25, 20.58' RT

STA 12+91.15, 20.58' RT

5'

10'

3.8'

STA 9+60.25, 38.2' RT

STA 9+31.58, 38.2' RT

STA 9+04.26, 38.2' RT

STA 10+38.91, 50.0' RT

STA 12+53.40, 36.16' RT

STA 13+50.0, 46.0' RT

STA 14+50.0, 59.7' RT

LEGEND

SODDING, SALT TOLERANT

RIPRAP, SEE STRUCTURAL PLANS

N

WINFIELD ROAD

STA 15+79.54, 27.84' RT

℄ WARRENVILLE ROAD

EXIST ROW

MATCH LINE STA 15+00

15+00

16

17

18

19

STA 16+44.0, 38.45' RT

5'

5'

10'

STA 16+62.8, 59.5' RT

GRAPHIC SCALE

20 0 20 40 60 80 100

FEET

S:\1216\05_CADD\Cadd Sheets\011216-sht-lndscp02.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
LANDSCAPING PLAN

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 | TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	34
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

LEGEND

PROPOSED LIGHTING UNIT, ORNAMENTAL POLE
13' M.H., POST TOP WITH 93W, 240V LED LUMINAIRE

EXISTING LIGHTING UNIT TO BE REMOVED

EXISTING PRIVATELY OWNED LIGHTING UNIT TO REMAIN

PROPOSED RIGID GALVANIZED STEEL CONDUIT (RGSC)
SIZE AS INDICATED ON PLANS

PROPOSED UNIT DUCT, SIZE AS INDICATED ON PLANS

PROPOSED LIGHTING CONTROLLER BASE MOUNTED
120/240V, 1Ø, 3 WIRE, 100AMPS

PROPOSED ELECTRIC SERVICE INSTALLATION

CALL-OUT SAMPLES

DEFINITION	EXAMPLE
CKT. NO. LOCATION SETBACK FROM BACK OF CURB (AS NOTED ON THE PLANS)	MZA1 STA 591+85 SETBACK 3 FT
MZA1 POLE NUMBER CIRCUIT NUMBER LIGHTING CONTROL CABINET	
CONDUIT SIZE, TYPE LENGTH	2" RGSC 100 FT
CIRCUITS CONDUCTORS RACEWAY	CKT. MZAB 2-1/C#4, 1/C#4 GND, 1" DIA. UNIT DUCT
CONTROLLER DESIGNATION LOCATION DESCRIPTION	PROPOSED LIGHTING CONTROLLER "MZ" STA 590+95, 51 FT LT, BASE MOUNTED, 120/240V, 1Ø, 3 WIRE, 100AMPS

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DIA	DIAMETER
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FND MET	FOUNDATION METAL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
M	METER
M.A.	MAST ARM
M.H.	MOUNTING HEIGHT
NO. #	NUMBER
PVC	POLYVINYL CHLORIDE
RGC	RIGID GALVANIZED CONDUIT
RGSC	RIGID GALVANIZED STEEL CONDUIT
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
UD	UNIT DUCT
UG	UNDERGROUND
WP	WOOD POLE
XFMR	TRANSFORMER

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. ALL NEW CONDUITS, UNIT DUCTS, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
3. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES.
4. RIGID CONDUIT CASINGS UNDER ROADWAYS SHALL EXTEND 2 FT BEYOND THE EDGE OF SHOULDER OR BACK OF CURB, AS APPLICABLE.
5. CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCE FROM UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE UNDERGROUND CONDUIT AND UNIT DUCT PAY ITEMS.
7. RESTORATION OF THE ROADWAY LIGHTING WORK AREA SHALL BE INCLUDED IN THE COST OF RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.
8. NO UNDERGROUND SPLICING OF THE PROPOSED ELECTRICAL CABLE IS ALLOWED. SPLICING OF THE PROPOSED ELECTRICAL CABLE WILL ONLY BE ALLOWED ABOVE GROUND IN POLE BASES AND JUNCTION BOXES ATTACHED TO STRUCTURE.
9. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
10. THE PROPOSED LIGHT POLES SHALL BE INSTALLED AS NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED WITH THE TOP LEVEL. WASHERS USED TO INSTALL THE POLE SHALL BE LARGE ENOUGH TO FULLY COVER THE SLOTTED HOLES IN THE POLE BASE PLATE.
11. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF WARRENVILLE AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS (LATEST EDITION).
12. THE EXISTING LIGHT POLES SHALL BE SALVAGED AND DELIVERED TO THE CITY OF WARRENVILLE PUBLIC WORKS GARAGE LOCATED AT 3S346 MIGNIN DRIVE, WARRENVILLE, IL. THE COST OF DELIVERY SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING LIGHTING SYSTEM.

BILL OF MATERIAL

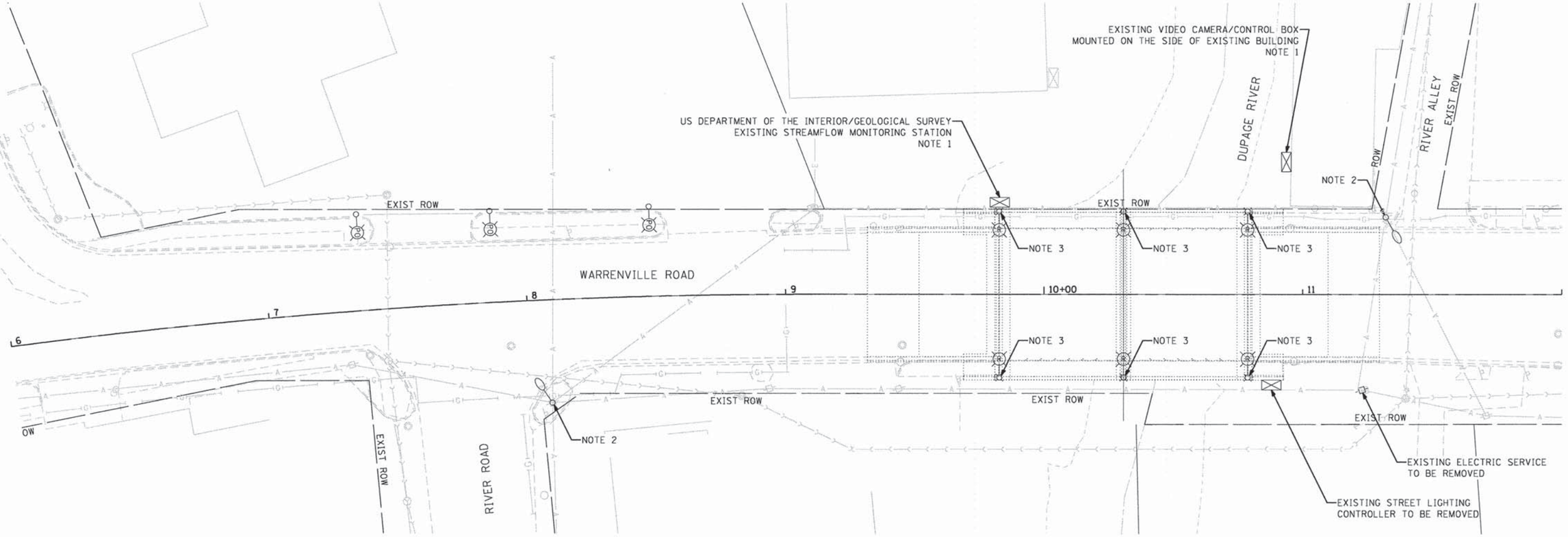
	CODE NO.	ITEM	UNIT	QUANTITY
•	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
•	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	445
	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	24
	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	548
	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2
	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	945
	81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	378
	81702300	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4	FOOT	945
	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
•	X0325541	REMOVE EXISTING LIGHTING SYSTEM	L. SUM	1
•	X7340102	CONCRETE FOUNDATION, STREET LIGHTING CONTROLLER	EACH	1
•	X8300001	LIGHT POLE, SPECIAL	EACH	12
•	XX007797	LUMINAIRE (SPECIAL)	EACH	12

• INDICATES SPECIAL PROVISION

E-01

NOTES:

1. REMOVAL AND REINSTALLATION OF EXISTING STREAMFLOW MONITORING STATION AND/OR EXISTING VIDEO CAMERA/CONTROL BOX TO BE PERFORMED BY OTHERS.
2. EXISTING LUMINAIRE ATTACHED TO EXISTING UTILITY POLE.
3. EXISTING ROADWAY LIGHTING POLE AND LUMINAIRE TO BE REMOVED.

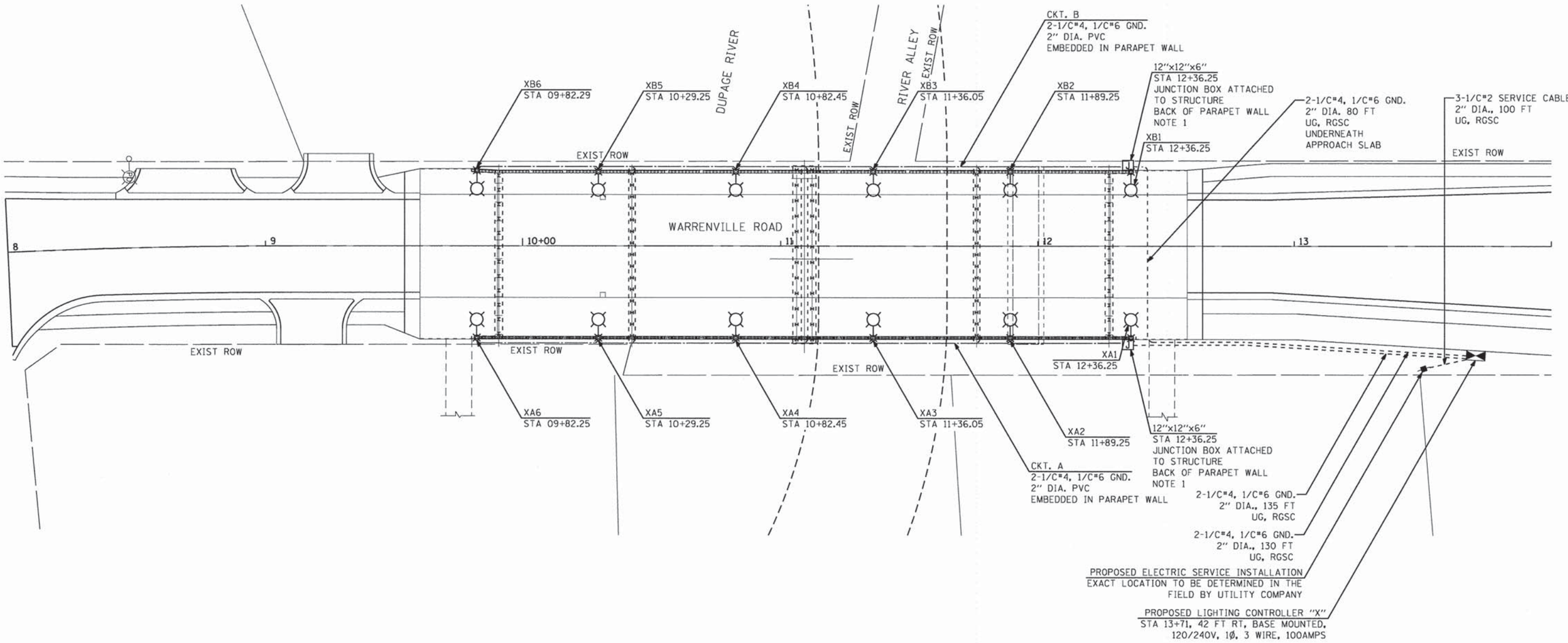


E-02

FILE NAME = D11216-sht-light02.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL ROADWAY LIGHTING WARRENVILLE ROAD				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -		SCALE: 1:40	SHEET 2 OF 10 SHEETS	STA. 6+00	TO STA. 12+00	1479	12-00220-03-BR	DUPAGE	103	36
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -						CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -						ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE SHEET E-10 FOR UNDERGROUND CONDUIT TO ATTACHED CONDUIT TRANSITION DETAIL.



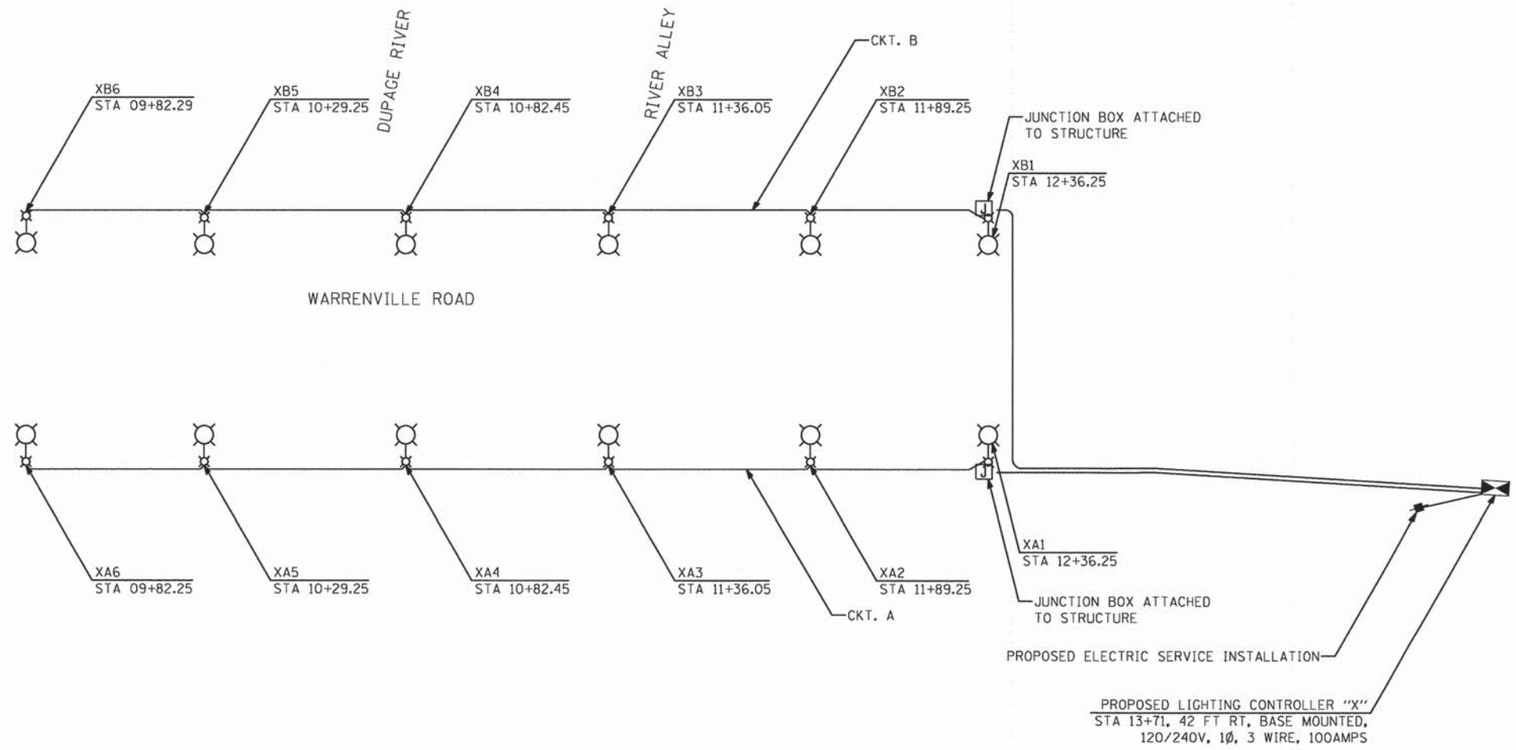
E-03

FILE NAME = D11216-sht-light03.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED ROADWAY LIGHTING WARRENVILLE ROAD
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -		SCALE: 1:40 SHEET 3 OF 10 SHEETS STA. 8+00 TO STA. 14+00
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -		
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -		

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	37
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

LEGEND

- PROPOSED LIGHTING UNIT, ORNAMENTAL POLE 13' M.H., POST TOP WITH 93W, 240V LED LUMINAIRE
- PROPOSED LIGHTING CONTROLLER BASE MOUNTED 120/240V, 1Ø, 3 WIRE, 100AMPS
- PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 12"x12"x6"
- PROPOSED ELECTRIC SERVICE INSTALLATION



LOAD TABLE
LIGHTING CONTROLLER "X"
(@ 240 VOLT)

CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS (1)		AMPS	WATTS (1)
A	2.63	630	B	2.63	630
C	-	-	D	-	-
E	-	-	F	-	-
G	-	-	H	-	-
I	-	-	J	-	-
TOTAL	2.63	630	TOTAL	2.63	630

(1) ASSUMED LED LUMINAIRE INPUT WATTAGE OF 105W.

E-04

FILE NAME = D11216-sht-light04.dgn
USER NAME = bgrubbs
PLOT SCALE = 1:40
PLOT DATE = 10/20/2014

DESIGNED - BG
DRAWN - BG
CHECKED - MR
DATE - 10/20/2014

REVISED -
REVISED -
REVISED -
REVISED -

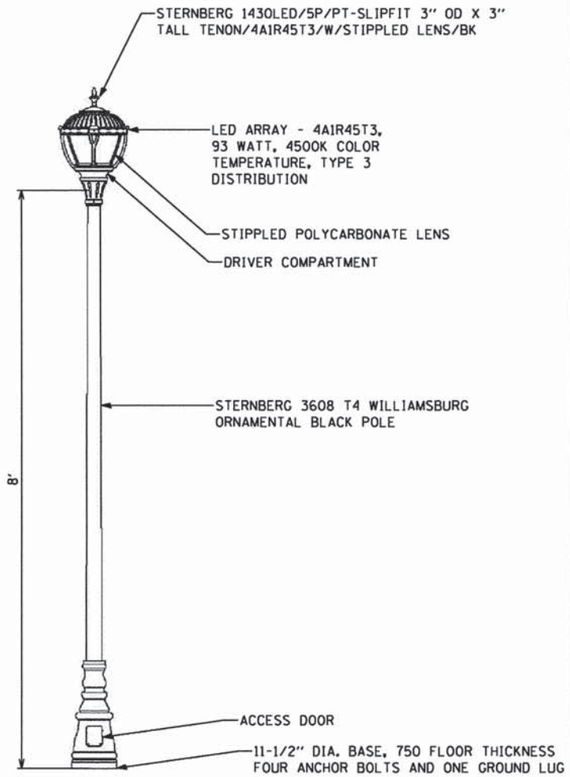
EJM ENGINEERING, INC.
411 South Wells Street Suite 1000
Chicago, Illinois 60607

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

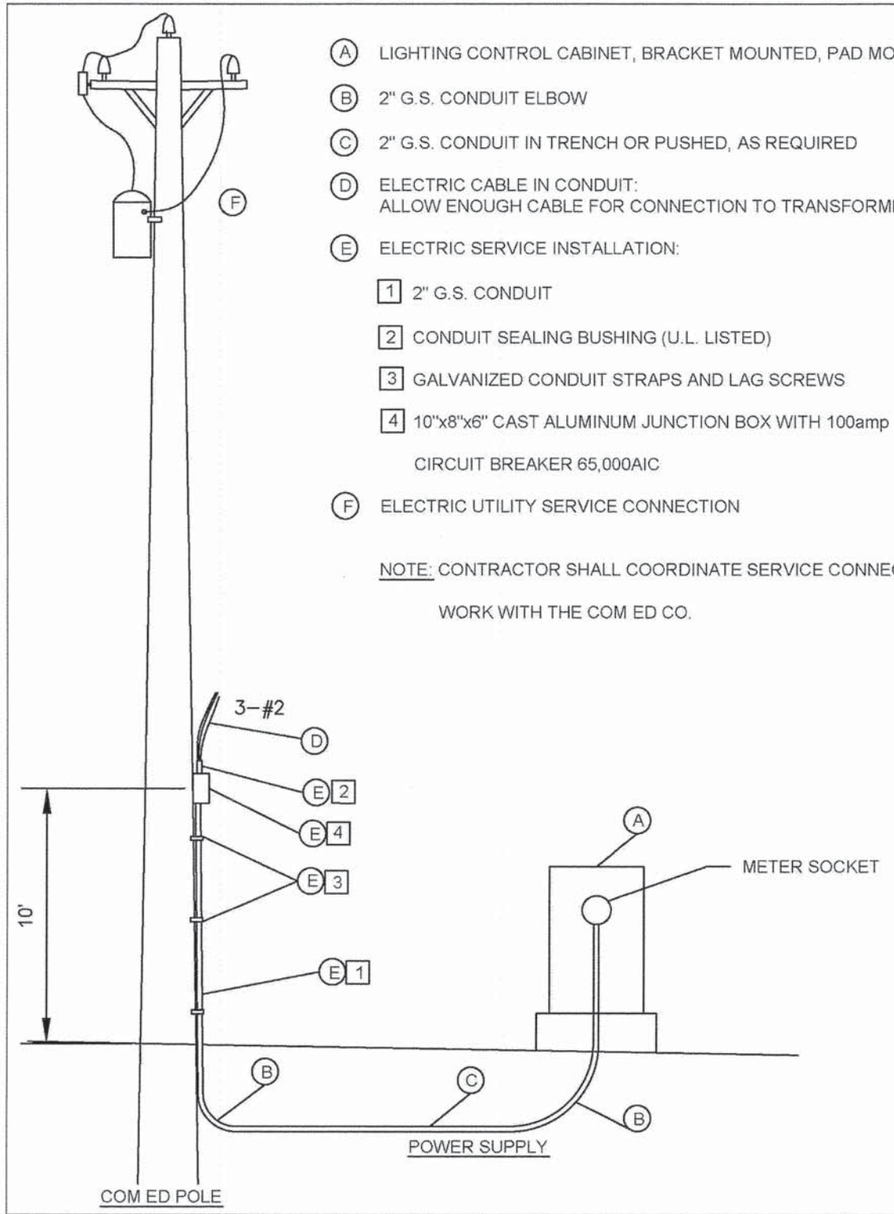
SINGLE LINE DIAGRAM
WARRENVILLE ROAD

SCALE: 1:40 | SHEET 4 OF 10 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	38
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



Ornamental Street Light Detail



(A) LIGHTING CONTROL CABINET, BRACKET MOUNTED, PAD MOUNTED

(B) 2" G.S. CONDUIT ELBOW

(C) 2" G.S. CONDUIT IN TRENCH OR PUSHED, AS REQUIRED

(D) ELECTRIC CABLE IN CONDUIT:
ALLOW ENOUGH CABLE FOR CONNECTION TO TRANSFORMER

(E) ELECTRIC SERVICE INSTALLATION:

[1] 2" G.S. CONDUIT

[2] CONDUIT SEALING BUSHING (U.L. LISTED)

[3] GALVANIZED CONDUIT STRAPS AND LAG SCREWS

[4] 10"x8"x6" CAST ALUMINUM JUNCTION BOX WITH 100amp CIRCUIT BREAKER 65,000AIC

(F) ELECTRIC UTILITY SERVICE CONNECTION

NOTE: CONTRACTOR SHALL COORDINATE SERVICE CONNECTION WORK WITH THE COM ED CO.

Revision Date: 01-20-2011

Drawn by: PMK

Reviewed by: MDS

N:\Engineering Specs\Details\SL-02.dwg

COMMUNITY DEVELOPMENT — City of Warrenville — DEPARTMENT

City of Warrenville Standard SL-02
Electric Service Installation

E-05

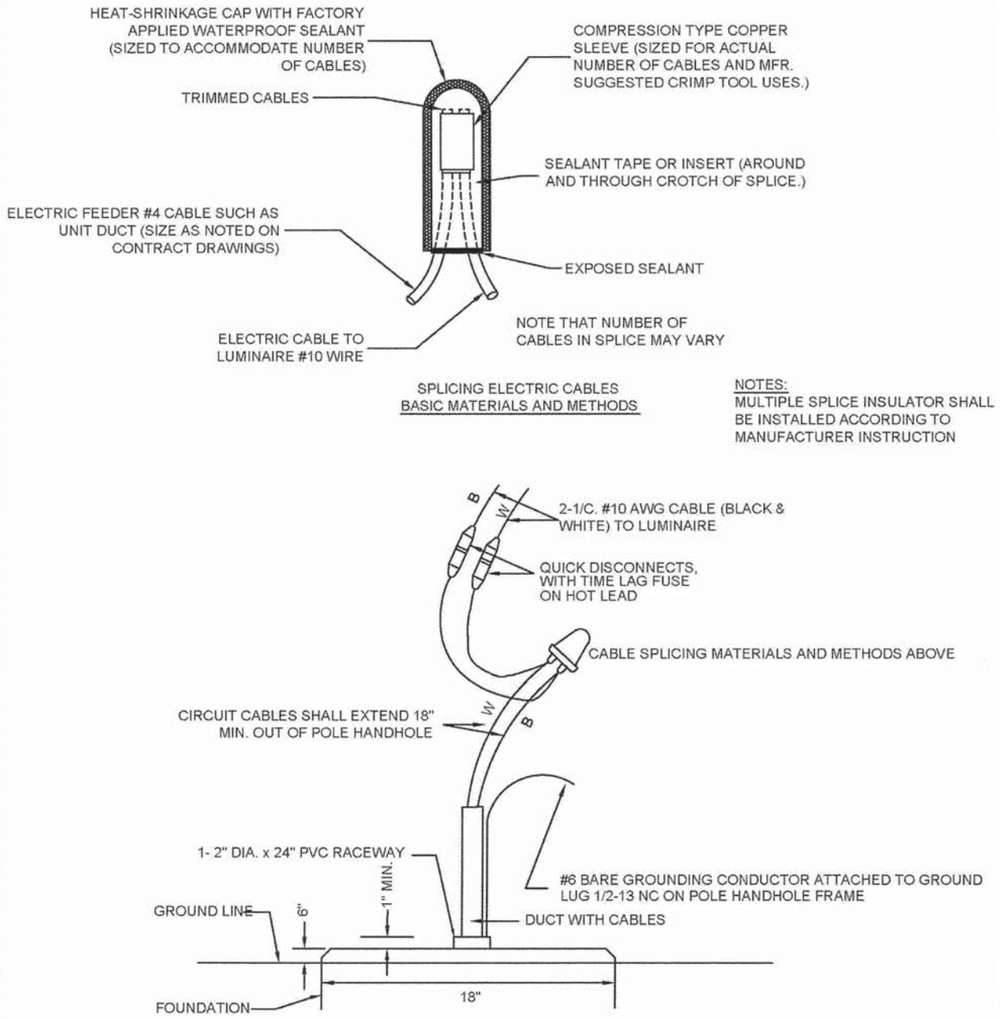
FILE NAME = D11216-sht-light05.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS
WARRENVILLE ROAD

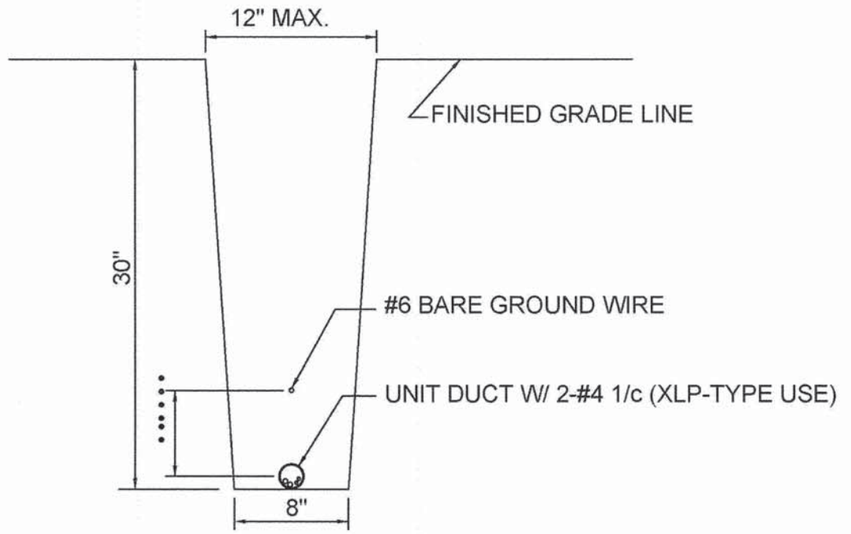
SCALE: 1:40 | SHEET 5 OF 10 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	39
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



Revision Date: 01-20-2011
Drawn by: PMK
Reviewed by: MDS
N:\Engineering Specs\Details\SL-03.dwg

City of Warrenville Standard SL-03
Cable Splicing in Pole Handhole



AT THE CONTRACTORS OPTION, THE DIRECTIONAL BORE METHOD MAY BE USED, AT NO ADDITONAL COST TO THE OWNER.

Revision Date: 01-20-2011
Drawn by: PMK
Reviewed by: MDS
N:\Engineering Specs\Details\SL-04.dwg

City of Warrenville Standard SL-04
Lighting Trench

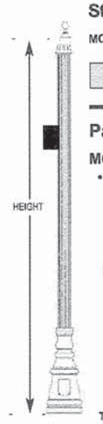
E-06

FILE NAME = D11216-sht-light06.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL DETAILS WARRENVILLE ROAD	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -			1479	12-00220-03-BR	DUPAGE	103	40
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -			CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -		SCALE: 1:40 SHEET 6 OF 10 SHEETS STA. N/A TO STA. N/A	ILLINOIS FED. AID PROJECT				

SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED

3600 WILLIAMSBURG SERIES — POSTS / OPTIONS / POST CAPS

BUILDING A PART NUMBER



Straight Poles

MODEL / HEIGHT / SHAFT			POST CAP CENTER	OPTIONS	FINISH
36	12	FP4	BCC	FH	BK

Part Number Selections

MODEL	HEIGHT	SHAFT
• 36	• 08'	• T4: 4"-3" Tapered Smooth*
	• 10'	• T5: 5"-3" Tapered Smooth
	• 12'	• P4: 4" Straight Smooth
	• 14'	• P5: 5" Straight Smooth
	• 16'	• FP4: 4" Straight Fluted*
		• FP5: 5" Straight Fluted

*Maximum recommended height 14'

FP4 - 4" FP5 - 5"

OPTIONS AVAILABLE

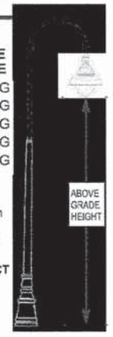
- GFI
- GFB
- FH
- SBA
- DBA
- SBAR
- DSPA
- DHPA
- PA478
- PCD
- SH
- SB
- WHK
- DB Direct Burial
- HB Helix Burial

Candy Cane Poles

MODEL / HEIGHT / SHAFT			HEIGHT ABOVE GRADE	OPTIONS	FINISH
36	00	RT4	12 AG		BK

Part Number Selections

MODEL	HEIGHT	SHAFT	ABOVE GRADE
• 36	• 00	• RT4: 4"-3" Tapered Smooth	• 08' AG
		• RT5: 5"-3" Tapered Smooth	• 10' AG
		• RP4: 4" Straight Smooth	• 12' AG
		• RP5: 5" Straight Smooth	• 14' AG
		• RFP4: 4" Straight Fluted	• 16' AG
		• RFP5: 5" Straight Fluted	



POST CENTER CAP (If Required)
- BCC
- FCC
- SCC
- TFCC
- SSCC

STANDARD FINISHES*
- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

*Smooth Finishes are available upon request

CUSTOM FINISHES
- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

STERNBERG SELECT FINISHES
- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

OPTIONS AVAILABLE

See Accessories Section for more options and information

GFI - Ground Fault Interrupter mounts in the pole

GFB - Ground Fault Breaker *inside* base

FH - Flag Pole Holder mounts on the pole

SBA - Single Banner Arm mounts on the pole

DBA - Double Banner Arms mount on same side of the pole

SBAR - Single Banner Arm and Ring

DSPA - Double Stepped Planter Arms mount on either side

DHPA - Double Hooked Planter Arms mount on either side

PA478 - Decorative Planter Arms with planter rings

PCD - Photo Control mounts on door on pole

SH - Speaker Hub for mounting speaker, floodlight or signal

SB - Sign Bracket mounts on pole to hold signs

WHK - Wreath Hook mounts on pole to hold decorations

POST CENTER CAPS (If Required)

BCC - Ball Center Cap

SCC - Spiked Center Cap

SSCC - Side Spiked Center Cap

FCC - Finial Center Cap

TFCC - Tall Finial Center Cap

SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED
555 Lawrence Ave. Roselle, IL 60172 • 847-588-3400 • Fax 847-588-3440
www.sternberglighting.com Email: info@sternberglighting.com

11-13

SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED

Caged Acorn Specifications

BUILDING A PART NUMBER

POST & ARM FIXTURES

ARM MOUNTED FIXTURE		CENTER POST TOP FIXTURE (PT)	POST	POST CAP	LIGHT SOURCE	DRIVER	OPTIONS	FINISH
NO. OF ARMS	ACORN / FITTER / POSTARM	ACORN / FITTER	(See Post Section)					
	–	1430LED/5P PT	650T5/12		4A1R45T5	MH	FEC	BKT

WALL FIXTURES

ACORN / FITTER / WALL BRACKET	LIGHT SOURCE	DRIVER	OPTIONS	FINISH
1430LED/5P/80WB	4ARC45T3	MH		BKT

PIER FIXTURES

Uses same information boxes as wall fixture

1430LED/5P/450PB

ACORN / FITTER / PIER BASE

PART NUMBER SELECTIONS

ACORNS
- 1430LED[1]
- 1430ALED

FITTERS
- 5P
- BD4
- BD5
- BD7
- B7

DRIVERS
- ML - 120-277
- MH - 347-480
- MDL - Dimming 120-277
- MDH - Dimming 347-480

POST ARMS
- 50PM
- 50DPM
- 478PM
- 478TSPM
- 70PM*
- 80PM
- 80DPM
- 480PM
- 480DPM
- 55PM
- 55LPM
- 6236PM
- 579PT
- TAPT
- TASCRPT
- BAPT

PIER BASE
- 450PB

WALL BRACKET ARMS
- 50WB
- 50DWB
- 478WB
- 478TSWB
- 70WB*
- 80WB
- 80DWB
- 480WB
- 480DWB
- 55WB
- 55LWB
- 6236WB
- 579WB
- TAWB
- TASCRWB
- 39WB*

*No fitter required

LIGHT SOURCES T5
- 4A1R60T5 93W, 6000K Type V Optics
- 4A1R45T5 93W, 4500K Type V Optics
- 4A1R35T5 93W, 4500K Type V Optics
- 4ARC60T5 65W, 6000K Type V Optics
- 4ARC45T5 65W, 4500K Type V Optics
- 4ARC35T5 65W, 3500K Type V Optics
- 3ARC60T5 51W, 6000K Type V Optics
- 3ARC45T5 51W, 4500K Type V Optics
- 3ARC35T5 51W, 3500K Type V Optics
- 1RND60T5 34W, 6000K Type V Optics
- 1RND45T5 34W, 4500K Type V Optics
- 1RND35T5 34W, 3500K Type V Optics

LIGHT SOURCES T3
- 4A1R60T3 93W, 6000K Type III Optics
- 4A1R45T3 93W, 4500K Type III Optics
- 4A1R35T3 93W, 3500K Type III Optics
- 4ARC60T3 65W, 6000K Type III Optics
- 4ARC45T3 65W, 4500K Type III Optics
- 4ARC35T3 65W, 3500K Type III Optics
- 3ARC60T3 51W, 6000K Type III Optics
- 3ARC45T3 51W, 4500K Type III Optics
- 3ARC35T3 51W, 3500K Type III Optics
- 1RND60T3 34W, 6000K Type III Optics
- 1RND45T3 34W, 4500K Type III Optics
- 1RND35T3 34W, 3500K Type III Optics

STANDARD FINISHES*
- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

*Smooth Finishes are available upon request

CUSTOM FINISHES
- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

STERNBERG SELECT FINISHES
- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

OPTIONS
- PEC Photocell-Electronic 120-277 Volt
- FHD Dual Fuse & Holder
- PF per arm Pineapple Finial or Font (for TA, TASCR)
- BF per arm Ball Finial or Font (for TA, TASCR)
- HL[2] Hi - Low Operation

NOTES:
[1] White polycarbonate acorns are available. Specify WP after acorn number.
[2] Not available on 1RND sources.

SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED
555 Lawrence Ave. Roselle, IL 60172 • 847-588-3400 • Fax 847-588-3440
www.sternberglighting.com Email: info@sternberglighting.com

1-14

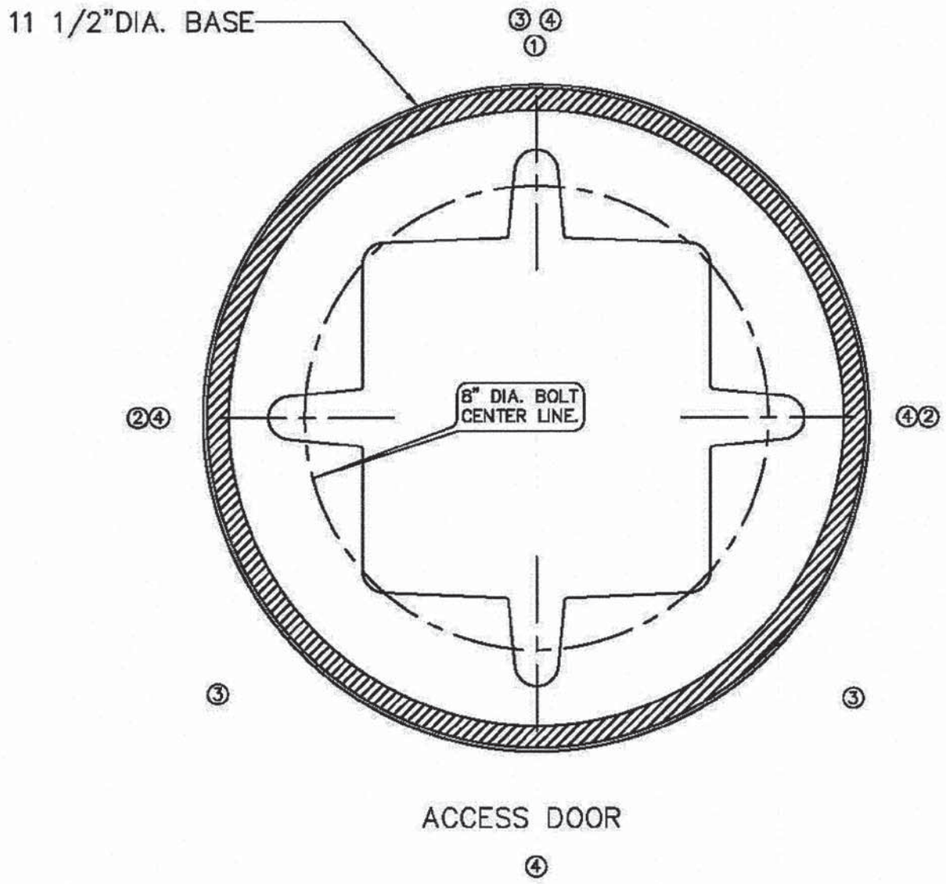
E-07

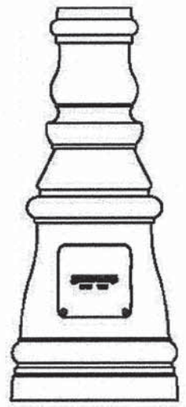
FILE NAME = D11216-sht-light07.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL DETAILS WARRENVILLE ROAD	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -			1479	12-00220-03-BR	DUPAGE	103	41
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -		SCALE: 1:40 SHEET 7 OF 10 SHEETS STA. N/A TO STA. N/A	CH 32	WARRENVILLE ROAD	CONTRACT NO. 61A87		
	PLOT DATE = 10/28/2014	DATE - 10/20/2014	REVISED -					ILLINOIS FED. AID PROJECT		

FULL SIZE INSTALLATION TEMPLATE FOR 3600P 3600T 3600FP 3600TFP POLES. AND 3601 BOLLARDS

NOTE:
CHECK ALL DIMENSIONS FOR FULL SCALE IF USED AS TEMPLATE. THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED DURING PHOTOCOPYING

① 1 ARM UNIT.
② 2 ARM UNITS.
③ 3 ARM UNITS.
④ 4 ARM UNITS.





ANCHOR BOLT INSTALLATION PATTERN.

RIGHT BOLT PATTERN

WRONG BOLT PATTERN

STREET

ACCESS DOOR

SIDEWALK

TYPICAL HARDWARE REQUIRED PER BASE
4 ANCHOR BOLTS
4 NUTS
4 WASHERS
3 WASHERS FOR LEVELING IF NEEDED.

BANNER ARMS ARE USUALLY ALIGNED WITH TWO ANCHOR BOLTS. IT IS BEST TO CONSULT THE FACTORY FOR A FULL SIZE TEMPLATE, FOR EXACT SPECIFICATIONS ON THE JOB.

INSTALLATION TEMPLATE FOR BASE NO.3601

1"=1"

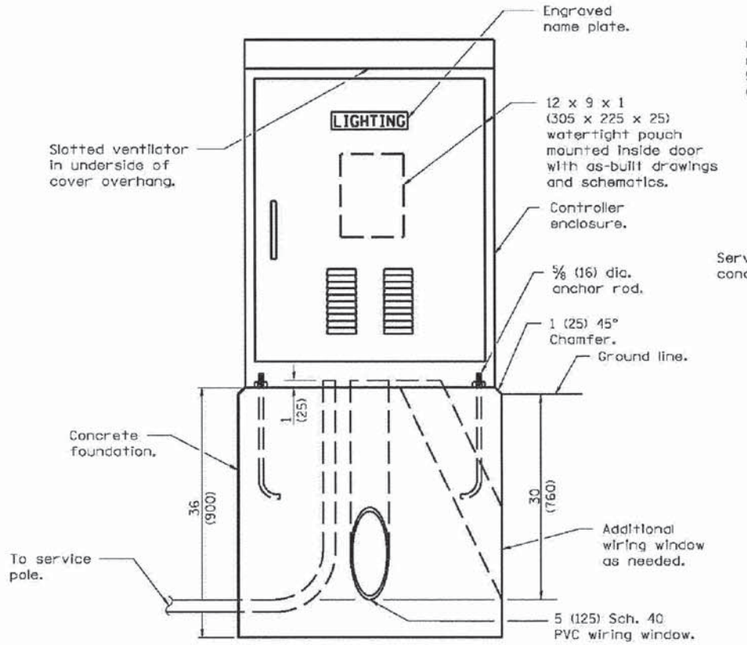
MAR 19 2003

T36

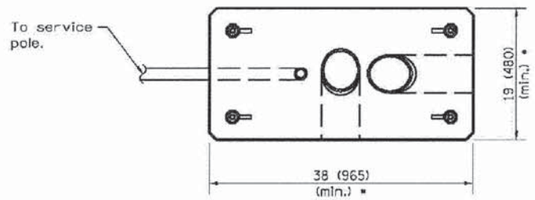
STEERNERS SINCE 1923

E-08

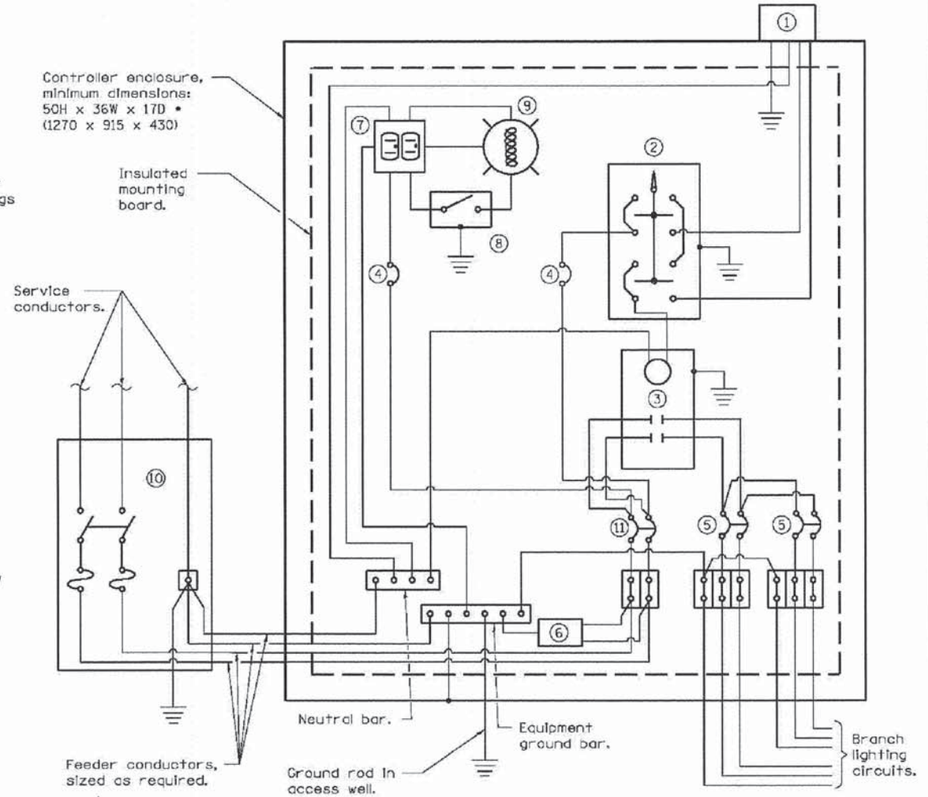
FILE NAME = 011216-sht-light08.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL DETAILS WARRENVILLE ROAD	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -			1479	12-00220-03-BR	DUPAGE	103	42
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -		SCALE: 1:40 SHEET 8 OF 10 SHEETS STA. N/A TO STA. N/A	CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -			ILLINOIS FED. AID PROJECT				

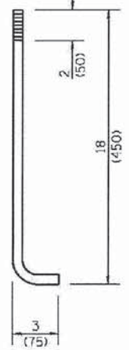


LIGHTING CONTROLLER



FOUNDATION (PLAN)
(Work pad not shown.)





ANCHOR ROD DETAIL

CONTROL SCHEMATIC

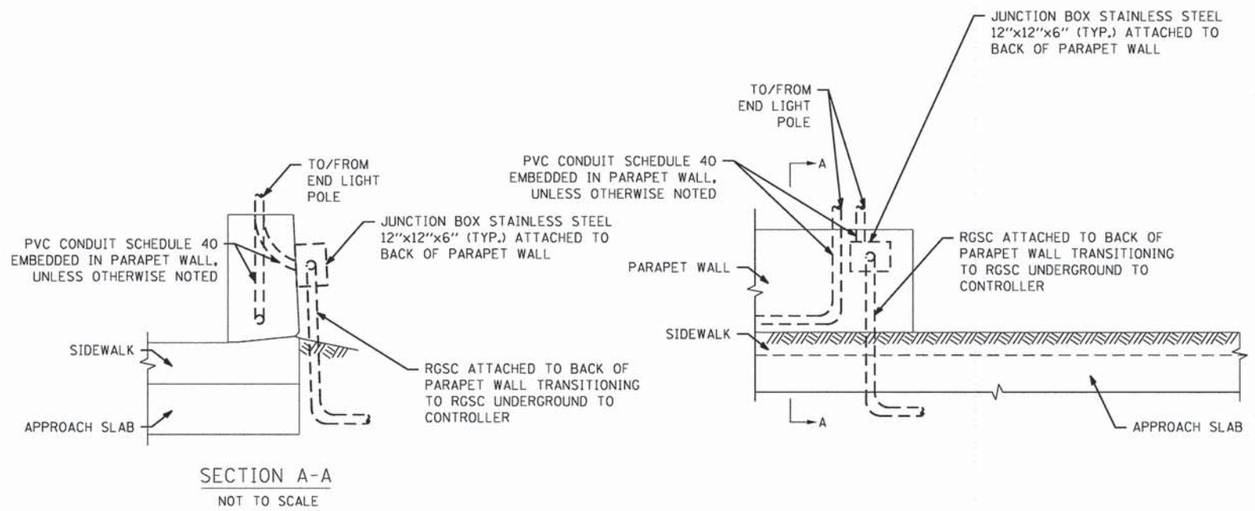
1. Photocell with integral surge arrester.
2. HAND-OFF-AUTO selector switch.
3. 100 amp•, electrically held contactor.
4. 15 amp, 1-pole circuit breaker.
5. 20 amp•, 2-pole circuit breaker (two spares required but not shown).
6. Surge arrester.
7. GFCI duplex receptacle.
8. Single-pole, single-throw switch.
9. Incandescent luminaire, enclosed and gasketted with 100 watt lamp.
10. Service disconnect switch - 2-pole, 3-wire, 100 amp•, fused at 100 amp•, solid neutral in NEMA 4X enclosure having lockable external handle.
11. 100 amp•, 2-pole circuit breaker.

• Size larger as needed.

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

LIGHTING CONTROLLER BASE MOUNTED, 240V

FILE NAME = D11216-sht-light89.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL DETAILS WARRENVILLE ROAD	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BG	REVISED -			1479	12-00220-03-BR	DUPAGE	103	43
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -			CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -		SCALE: 1:40 SHEET 9 OF 10 SHEETS STA. N/A TO STA. N/A			ILLINOIS FED. AID PROJECT		



SECTION A-A
NOT TO SCALE

UNDERGROUND CONDUIT TO ATTACHED CONDUIT TRANSITION DETAIL
NOT TO SCALE

FILE NAME = D11216-sht-light10.dgn	USER NAME = bgrubbs	DESIGNED - BG	REVISED -
EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BG	REVISED -
	PLOT SCALE = 1:40	CHECKED - MR	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS
WARRENVILLE ROAD

SCALE: 1:40 | SHEET 10 OF 10 SHEETS | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	44
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

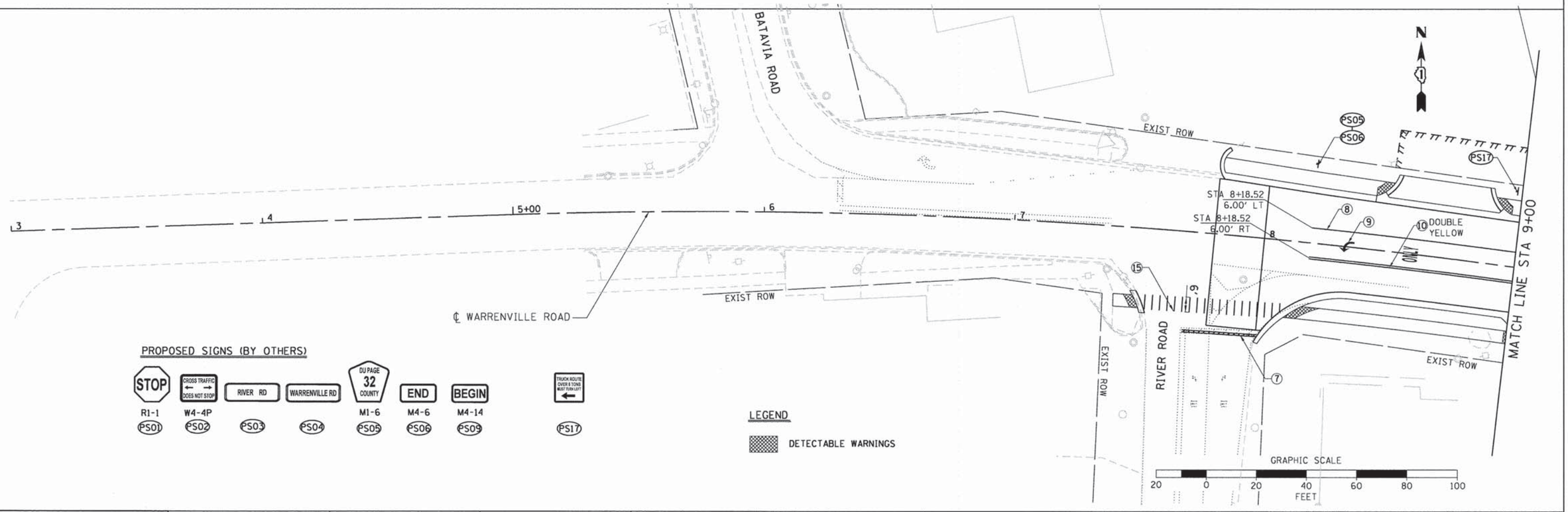
① MODIFIED URETHANE PAVEMENT MARKING-LINE 4" (YELLOW)
② MODIFIED URETHANE PAVEMENT MARKING-LINE 6" (WHITE 2' DASH 6' SKIP)
③ RECESSED REFLECTIVE PAVEMENT MARKER
④ THERMOPLASTIC PAVEMENT MARKING-LINE 4" (WHITE 10' DASH 30' SKIP)
⑤ THERMOPLASTIC PAVEMENT MARKING-LINE 6" (WHITE 2' DASH 6' SKIP)
⑥ THERMOPLASTIC PAVEMENT MARKING-LINE 12" (YELLOW DIAGONALS 30' C-C)
⑦ THERMOPLASTIC PAVEMENT MARKING-LINE 24" (WHITE STOP LINE)
⑧ THERMOPLASTIC PAVEMENT MARKING-LINE 6" (WHITE)
⑨ THERMOPLASTIC PAVEMENT MARKING-LETTER AND SYMBOLS
⑩ THERMOPLASTIC PAVEMENT MARKING-LINE 4" (YELLOW)
⑪ THERMOPLASTIC PAVEMENT MARKING-LINE 6" (YELLOW)
⑫ MODIFIED URETHANE PAVEMENT MARKING-LINE 6" (WHITE)
⑬ MODIFIED URETHANE PAVEMENT MARKING-LETTER AND SYMBOLS
⑭ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
⑮ THERMOPLASTIC PAVEMENT MARKING-LINE 12" (WHITE 3' C-C)

NOTES:

1. PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC, AND PAVEMENT MARKINGS ON PCC SURFACES SHALL BE MODIFIED URETHANE

2 PROPOSED SIGNS WILL BE "BY OTHERS"

3. AS NEEDED AND DIRECTED BY THE ENGINEER, SHORT TERM TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS QUANTITIES ARE PROVIDED FOR TEMPORARY STRIPING



PROPOSED SIGNS (BY OTHERS)

STOP	CROSS TRAFFIC DOES NOT STOP	RIVER RD	WARRENVILLE RD	DU PAGE 32 COUNTY	END	BEGIN	TRUCK ROUTE OVER 8 TONS MUST TURN LEFT
R1-1	W4-4P			M1-6	M4-6	M4-14	
PS01	PS02	PS03	PS04	PS05	PS06	PS09	PS17

LEGEND

DETECTABLE WARNINGS

S:\1216\85.CADD\Cadd Sheets\011216-sht-pmk01.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. 3+00 TO STA. 9+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	45
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

NOTE: PROPOSED SIGNS WILL BE "BY OTHERS"

EXIST W. BRANCH DUPAGE RIVER

FUTURE WEST BRANCH DUPAGE RIVER MAIN CHANNEL (BY OTHERS)

EXIST ROW

RIVER ALLEY

℄ WARRENVILLE ROAD

SECOND ST

MATCH LINE STA 9+00

MATCH LINE STA 15+00

DOUBLE YELLOW

3' C-C

30' C-C

+10.29 6' LT

+54.25 6' LT

+18.52 6' LT

+63.52 6' LT

+91.23 6' LT

+10.29 6' RT

+54.25 6' RT

+63.52 6' RT

+91.23 6' RT

+96.83

+97.18 12' RT

10+00

PROPOSED SIGNS (BY OTHERS)

STOP	32 COUNTY		WEST BRANCH DU PAGE RIVER	BEGIN	BIKE ROUTE			LEFT LANE MUST TURN LEFT	SPEED LIMIT 35		ONLY ONLY	
R1-1 18X18 PS01	M1-6 PS05	W8-5 PS07	PS08	M4-14 PS09	D11-1 PS10	W11-1 PS11	M6-2a PS12	R3-7 PS13	R2-1 PS14	R8-3 PS15	R3-8 PS18	OM3-R PS22

LEGEND

DETECTABLE WARNINGS

PROPOSED SIGNS (BY OTHERS)

STOP	SPEED LIMIT 35				TOLL
R1-1 PS01	R2-1 PS14	R8-3 PS15	M1-1 PS19	M6-1 PS20	M4-15 PS21

WINFIELD ROAD

℄ WARRENVILLE ROAD

EXIST ROW

MATCH LINE STA 15+00

15+00

12.00' LT

+91.23

+03.45 12.00' LT

+98.00

+4.18

+4.18 12.00' RT

+91.23 12.00' RT

+91.23 24.00' RT

+97.02 12.00' RT

+97.04 24.00' RT

10'

GRAPHIC SCALE

20 0 20 40 60 80 100

FEET

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -
		DRAWN - CJ	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

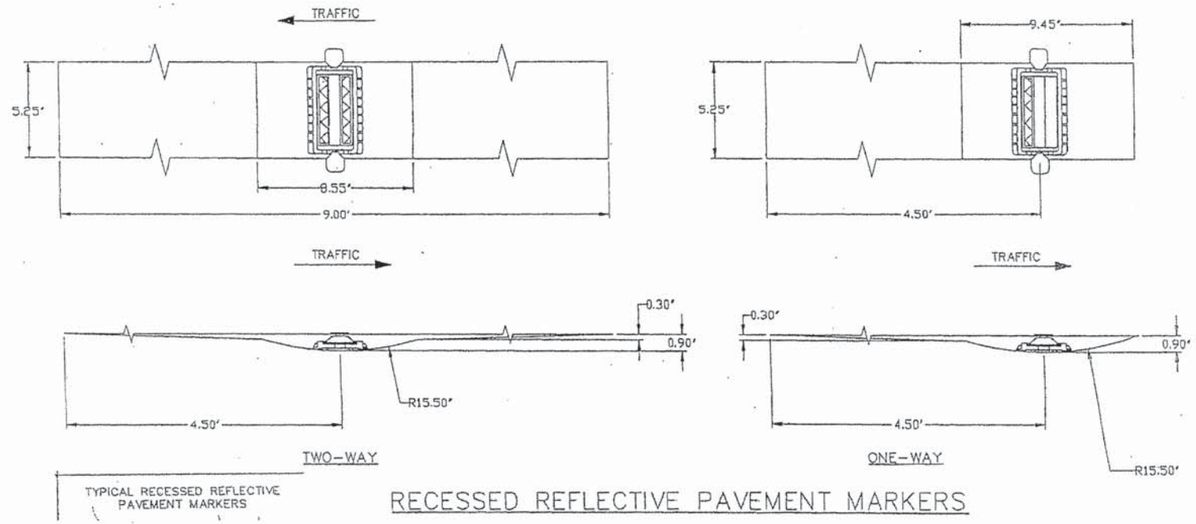
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
PROPOSED PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. 9+00 TO STA. 19+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	46
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

S:\12161\05_CADD\Cadd Sheets\D12161-sht-pmk02.dgn



RECESSED REFLECTIVE PAVEMENT MARKERS

INSTALLATION NOTES:

1. SAW CUT TO DIMENSIONS SHOWN.
2. SAW CUT AREAS ARE TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS

GENERAL NOTES:

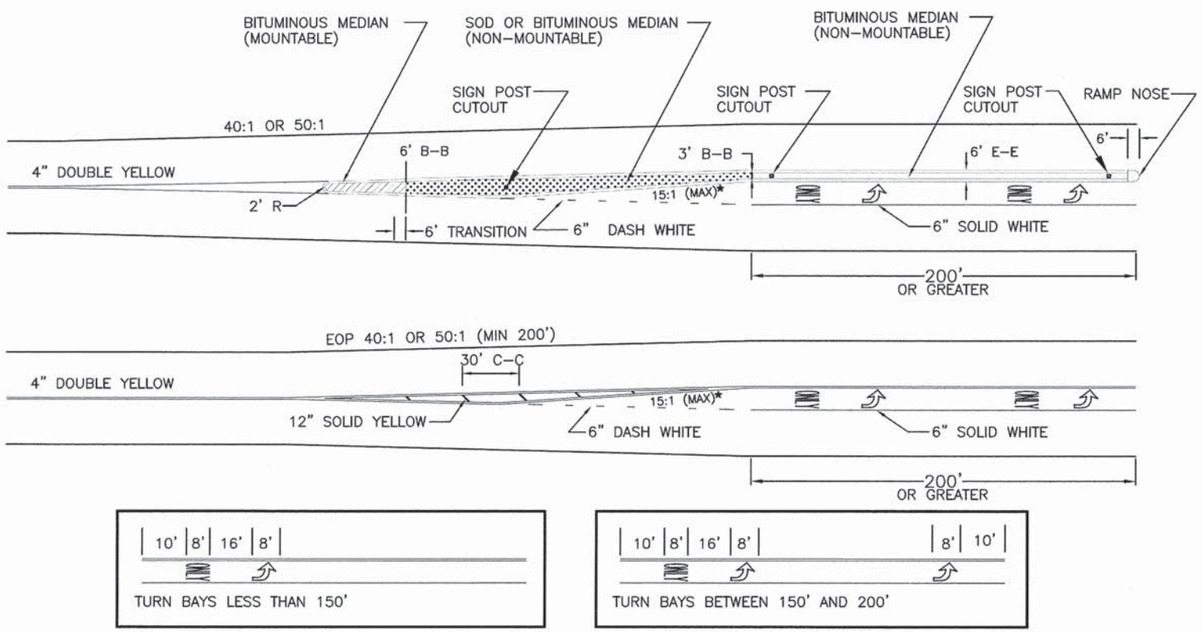
1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

TYPICAL TURN BAYS

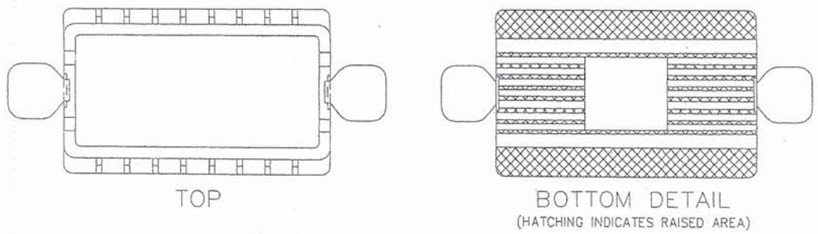
NOTES:

1. SEE MEDIAN DETAILS FOR MEDIAN DEPTH DESIGN, CURB TYPE, AND SIGN POST CUTOUTS.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

*ADJUST FOR CURVE SECTION (12:1/10:1)



REFLECTOR HOLDER



S:\1216\05_CADD\Cadd Sheets\01216-sht-C details.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

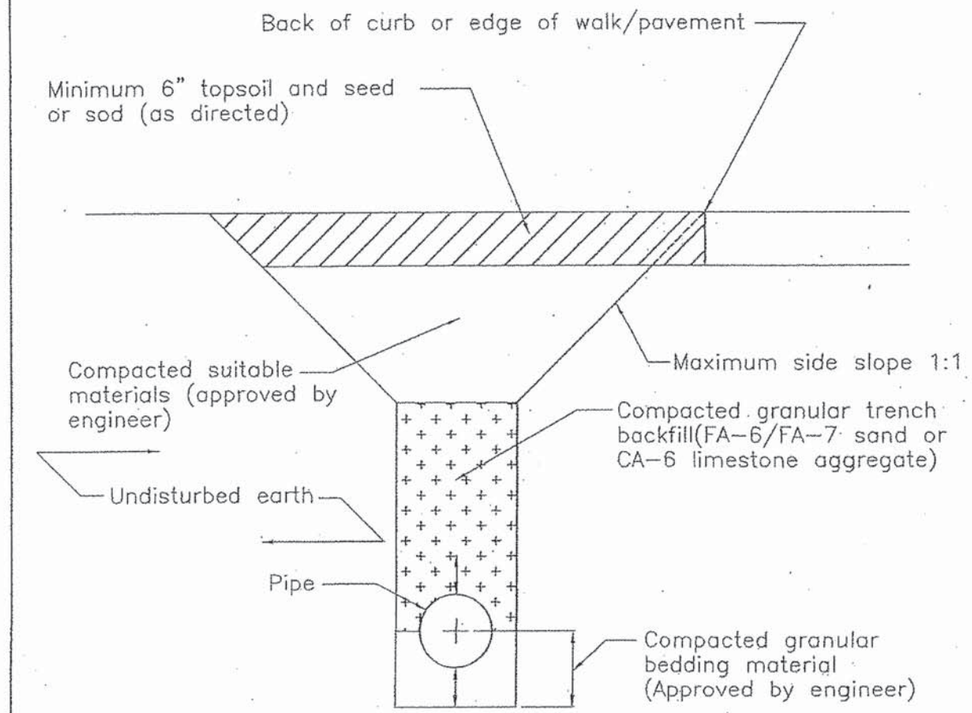
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
DuPAGE COUNTY DOT STANDARDS

SCALE: NA | SHEET 1 OF 2 SHEETS | STA. NA | TO STA. NA

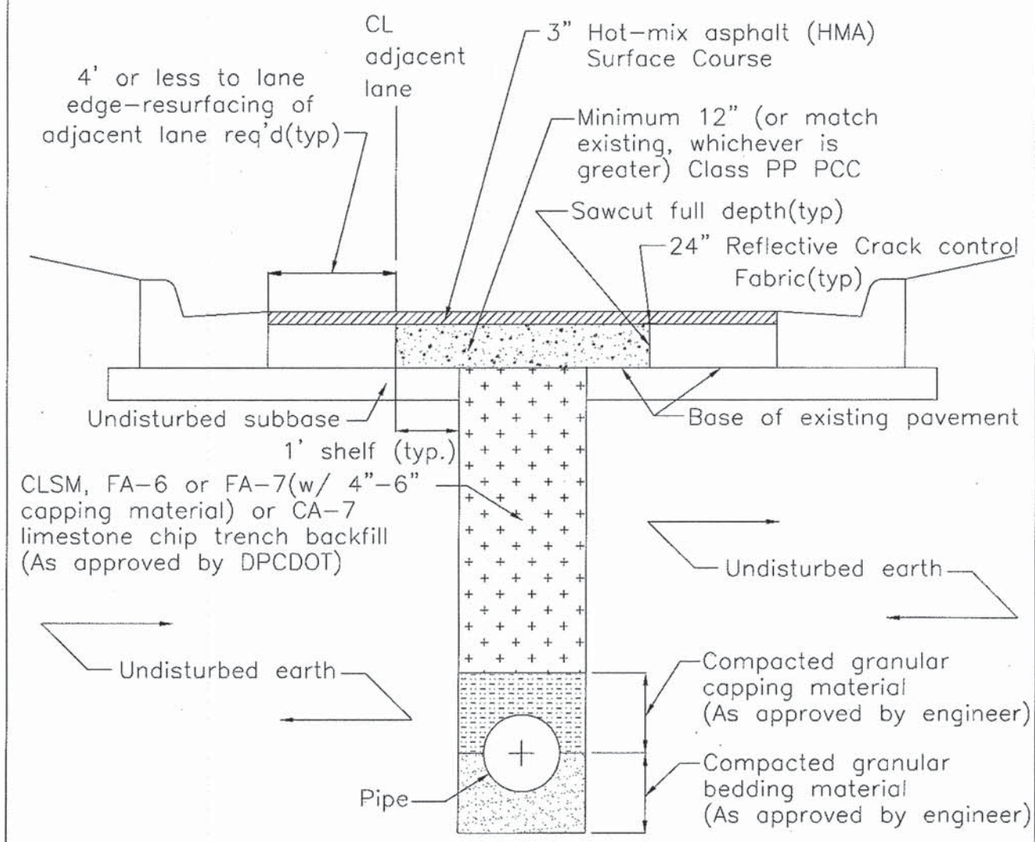
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	47
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

DUPAGE COUNTY DIVISION OF TRANSPORTATION
TRENCH BACKFILL STANDARD IN NON-PAVED AREAS
(PARKWAYS, ETC.)



TOM H 01-25-05
TBFNONPAVESTD.DWG

DUPAGE COUNTY DIVISION OF TRANSPORTATION
TRENCH BACKFILL STANDARD IN PAVED AREAS



Notes:

1. All materials per IDOT's "Standard Specifications for Road & Bridge Construction" (latest edition) and "Supplemental Recurring Special Provisions" (latest edition).

2. Replace all pavement markings, striping, symbols and pavement markers in kind.

TOM H 03-12-10
TBFPAVED STD.DWG

S:\1216\05_CADD\Cadd Sheets\121216-sht-C details.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
DuPAGE COUNTY DOT STANDARD

SCALE: NA | SHEET 2 OF 2 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	48
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

Bench Mark: Bronze disk approximately 13' east of the west end of the north bridge sidewalk, and approximately 31.5' north of the centerline of Warrenville Road. Elevation 696.08 (NGVD 29).

Existing Structure: Structure No. 022-3043, which carries Warrenville Road over the West Branch of the DuPage River, was originally built in 1984. The bridge is a two-span structure, with sixteen 21" deep PPC deck beams in each span. A 3" thick bituminous wearing surface is present on top of the beams. The substructure consists of two closed abutments and a solid wall pier, all founded on spread footings. The wingwalls at both abutments are parallel to the roadway. All substructure units have no skew. The total length, back to back of abutments, is 99'-4". Each span measures 49'-8" from centerline of pier to back of abutment. The out-to-out width of the structure is 66'-0", and the face-to-face curb width is 51'-0". Cast in place concrete sidewalks of 7'-6" width are located at each side of the superstructure. The existing structure and approaches are built on a tangent alignment. The bridge is to be closed and traffic is to be detoured during construction.

Exist. light poles are to be salvaged. See Electrical Plans.

WATERWAY INFORMATION

Drainage Area = 90.0 sq. mi. Low Grade Elev. 695.05 @ Sta. 8+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	2600	961	1509	692.46	691.96	0.33	0.11	692.79	692.07
Design	30	3150	980	1684	692.93	692.82	0.32	0.13	693.25	692.95
Base	100	4100	980	1946	694.77	694.49	0.27	0.18	695.04	694.67
Overtopping										
Max. Calc.	500	5200	980	2030	696.76	696.63	0.20	0.12	696.96	696.75

10 year velocity through Existing Bridge = 4.45 fps
10 year velocity through Prop. Bridge = 1.87 fps

DESIGN SCOUR ELEVATIONS

	W. Abut.	Pier 1	Pier 2	Pier 3	E. Abut.
Q_{100}	690.20	682.87	681.50	682.02	693.45
Q_{500}	689.40	682.79	681.50	681.94	693.45

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2013 Interim Revisions

DESIGN STRESSES

POST-TENSIONED SLAB

f'_c = 5,000 psi
$f'_{ci} \geq$ 4,000 psi
f_{pu} = 270,000 psi (0.6" Dia., Low Relaxation Strands)
f_{pbt} = 216,000 psi (0.6" Dia., Low Relaxation Strands)
f_y = 60,000 psi (Steel Reinforcement)

OTHER FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (Steel Reinforcement)
f_y = 50,000 psi (Steel H-Piles)

LOADING HL-93

50 psf Future Wearing Surface

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.063g
Design Spectral Acceleration at 0.2 sec (S_{DS}) = 0.121g
Soil Site Class = C

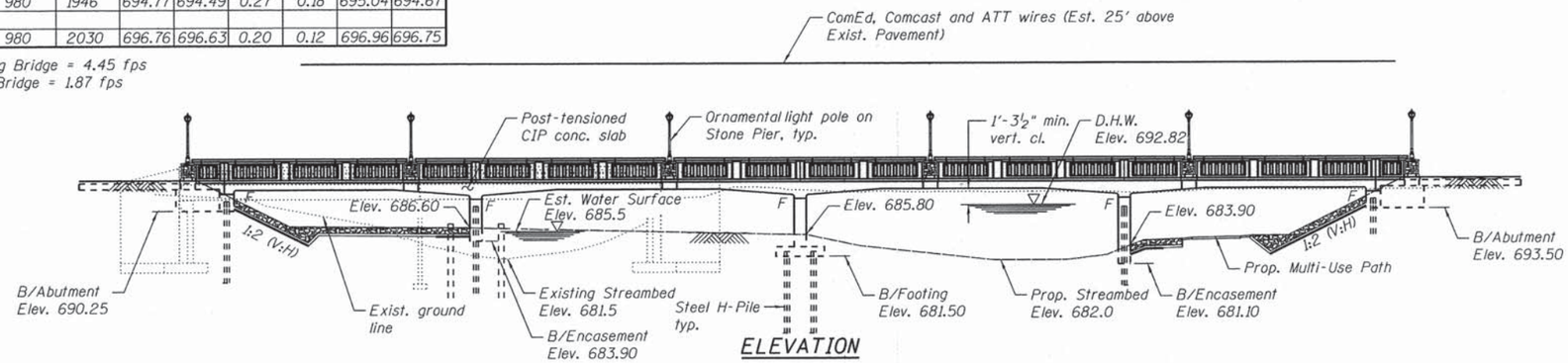
STATE OF ILLINOIS
BRENT A. KUNZ
081-006200
CHICAGO, IL
LICENSED STRUCTURAL ENGINEER

SIGNED: Brent Kunz
DATE: December 19, 2014
EXPIRES: November 30, 2016

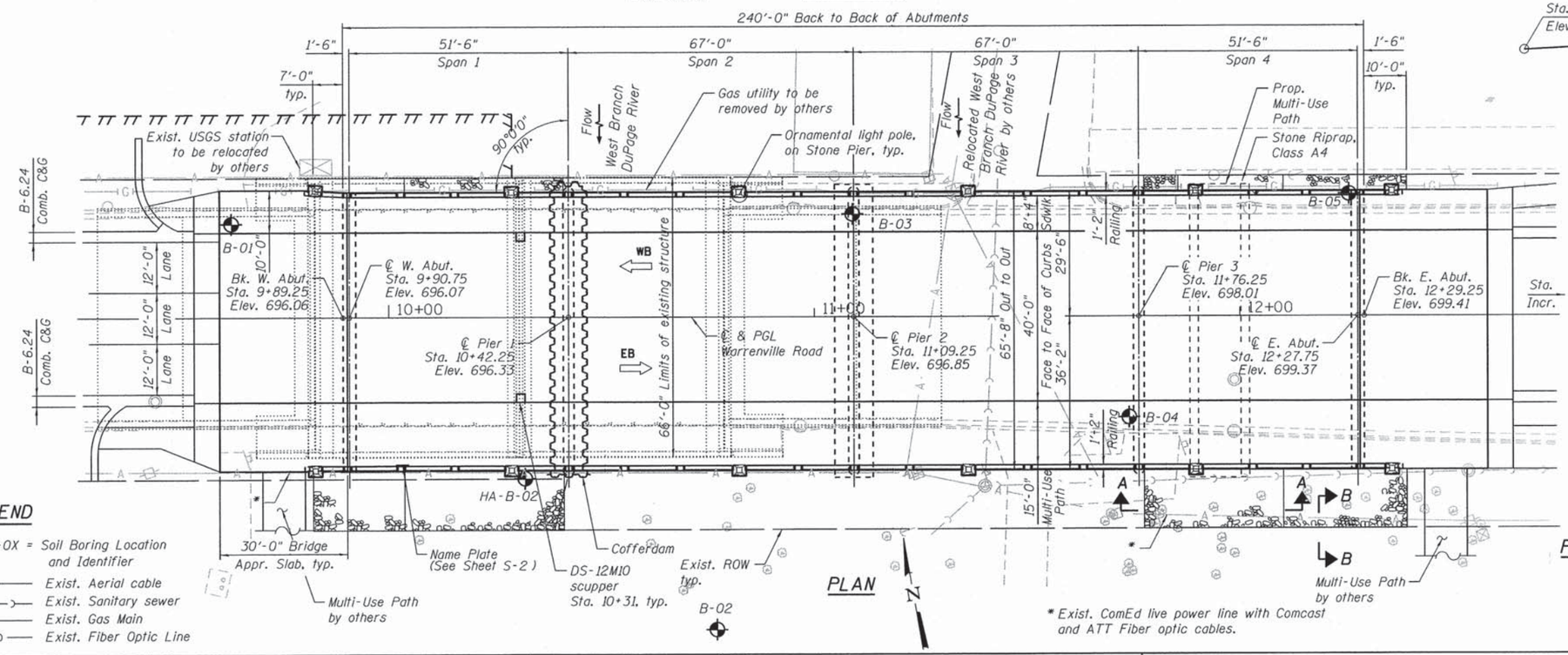
I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the above AASHTO Design Specifications.

Notes:

For Sections A-A & B-B see Sheet S-2

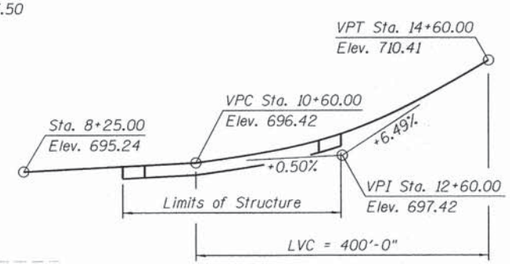


ELEVATION



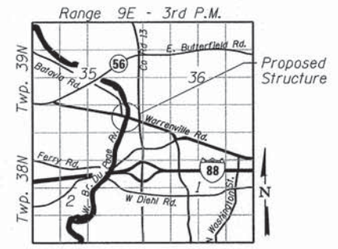
PLAN

* Exist. ComEd live power line with Comcast and ATT Fiber optic cables.



PROFILE GRADE

(Along ℄ Warrenville Road)



LOCATION SKETCH

LEGEND

- B-0X = Soil Boring Location and Identifier
- A — Exist. Aerial cable
- Exist. Sanitary sewer
- G — Exist. Gas Main
- FO — Exist. Fiber Optic Line

GENERAL PLAN & ELEVATION
WARRENVILLE ROAD OVER
WEST BRANCH DUPAGE RIVER
F.A.U. RT. 1479 - SEC. 12-00220-03-BR
DUPAGE COUNTY
STATION 11+09.25
STRUCTURE NO. 022-3045

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S-1 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	49
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

2i8058 PH
12/19/2014
S:\1216\05_CADD\Cadd Sheets\0223045-80000-801-GPE.dgn

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

All exposed concrete edges shall have a $\frac{3}{4}$" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

Reinforcement bar bending dimensions are out to out.

Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.

Contractor shall not scale dimensions from the Contract Plans for construction purposes.

No construction joints except those shown on the plans will be allowed unless approved by the Engineer.

It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123

Temporary soil retention systems, sheeting, bracing or cofferdams shall be constructed at the locations shown on the plans and/or as required for the excavation to protect the adjacent areas from settling or falling into the excavated areas.

The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except the cofferdam shown. This shall include the placement of material for run-arounds, causeways, etc.

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 bridge slab shall be removed prior to placement of bridge approach slab.

The Contractor will be required to work in the vicinity of and under relocated power and other aerial utility lines and poles. This work will include driving piles and other operations with equipment that meets OSHA requirements for minimum clearance distance to the power lines, in addition to pile splices. The cost of all work in the vicinity of and under the aerial utility lines and poles shall be included in the unit bid price for each affected pay item. No additional compensation will be provided for any work affected by the presence of the aerial utility lines and poles, and any damage to these lines and/or poles must be repaired to the satisfaction of the Engineer at the Contractor's expense.

WEST BRANCH OF
DUPAGE RIVER
BUILT 201 BY
DUPAGE COUNTY
SEC. 12-00220-03-BR
F.A.U. RTE. 1479 STA. 11+09.25
STR. NO. 022-3045 LOADING HL-93

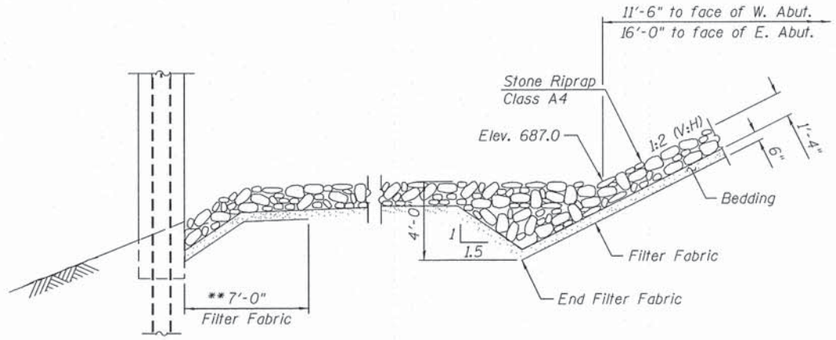
NAME PLATE
See Std. 515001

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

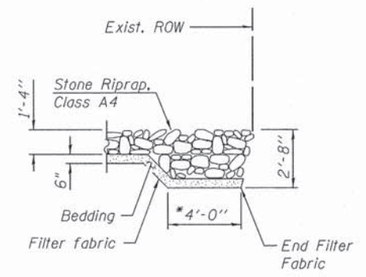
	ITEM	UNIT	SUPER	SUB	TOTAL
	Stone Riprap, Class A4	Sq. Yd.	-	790	790
	Filter Fabric	Sq. Yd.	-	488	488
	Removal of Existing Structures	Each	0.5	0.5	1
	Structure Excavation	Cu. Yd.	-	480	480
	Cofferdam (Type 1) (Location-1)	Each	-	1	1
	Cofferdam Excavation	Cu. Yd.	-	27.1	27.1
	Concrete Structures	Cu. Yd.	40.4	307.2	347.6
***	Concrete Superstructure	Cu. Yd.	1,412.7	-	1,412.7
	Protective Coat	Sq. Yd.	2,430	-	2,430
	Bridge Deck Grooving	Sq. Yd.	1,259	-	1,259
	Reinforcement Bars, Epoxy Coated	Pound	186,980	43,050	230,030
	Parapet Railing, Special	Foot	503	-	503
	Furnishing Steel Piles HP14x73	Foot	-	4,072	4,072
	Driving Piles	Foot	-	4,072	4,072
	Test Pile Steel HP14x73	Each	-	5	5
	Pile Shoes	Each	-	78	78
	Name Plates	Each	1	-	1
	Geocomposite Wall Drain	Sq. Yd.	-	66	66
	Pipe Underdrains for Structures, 4"	Foot	-	200	200
	Granular Backfill for Structures	Cu. Yd.	-	100.1	100.1
	Concrete Bridge Rail, Sidewalk Mounted	Foot	473	-	473
	Drainage Scupper, DS-12M10	Each	2	-	2
	Furnishing, Installing and Stressing Post-Tensioning Tendons	L. Sum	1	-	1
	Anti-Graffiti Coating	Sq. Ft.	-	4,460	4,460
	Stone Pier	Each	12	-	12

***See sheet S-10 for concrete strength requirements.



** Measured along slope

SECTION A-A



SECTION B-B

* Decrease dimension as required along wingwalls.

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 022-3045
		CHECKED - BAK	REVISED -		
	PLOT SCALE =	DRAWN - MTR	REVISED -		SHEET NO. S-2 OF S-40 SHEETS
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	50
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

12/21/2014

S:\1216\05_CADD\Cadd Sheets\022-3045-00000-002-GD.dgn

240'-0" Back to Back Abutments

1'-6" | 51'-6" Span 1 | 67'-0" Span 2 | 67'-0" Span 3 | 51'-6" Span 4 | 1'-6"

Concrete headwall (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

Outlet pipe

Prop. Grading by others

EXIST ROW

Cofferdam (Type 1) (Location-1)

2'-0" typ.

29'-4"

65'-4"

36'-0"

Bk. W. Abutment Sta. 9+89.25

℄ W. Abutment Sta. 9+90.75

℄ Pier 1 Sta. 10+42.25

℄ Pier 2 Sta. 11+09.25

3'-4"

℄ Warrenville Rd.

℄ Structure

℄ Pier 3 Sta. 11+76.25

℄ E. Abutment Sta. 12+27.75

Bk. E. Abutment Sta. 12+29.25

694 692 691 690 689 688 687

696 695 694 693 685 684 683 682 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700

PLAN

N

Outlet pipe

Concrete headwall (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

LEGEND

- Temporary Easement
- Existing R.O.W.
- * Removal of Exist. Structure
- Cofferdam
- Pipe Underdrains for Structures, 4"

* Removal of exist. substructures will require two stages in order to maintain the location of the exist. channel, per the sequence of work shown on Sheet S-4. This work in multiple stages is included in the cost of Removal of Existing Structures.

Note: See sheet S-4 for suggested sequence of work and excavation limits.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

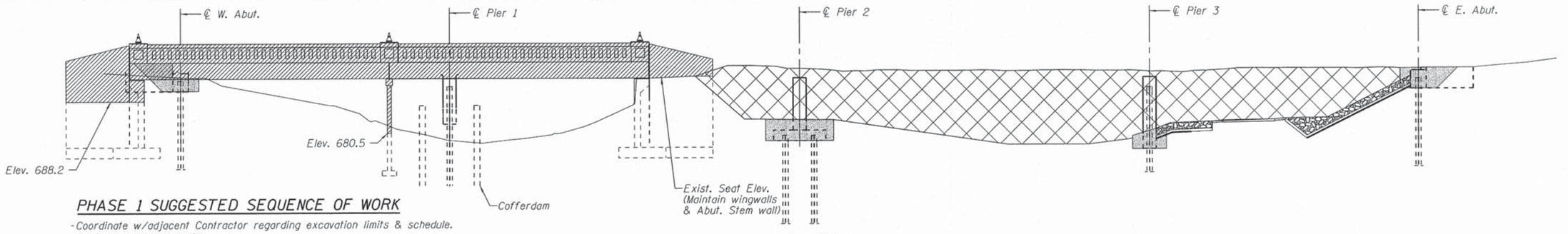
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT & GRADING PLAN
STRUCTURE NO. 022-3045
SHEET NO. S-3 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	51
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

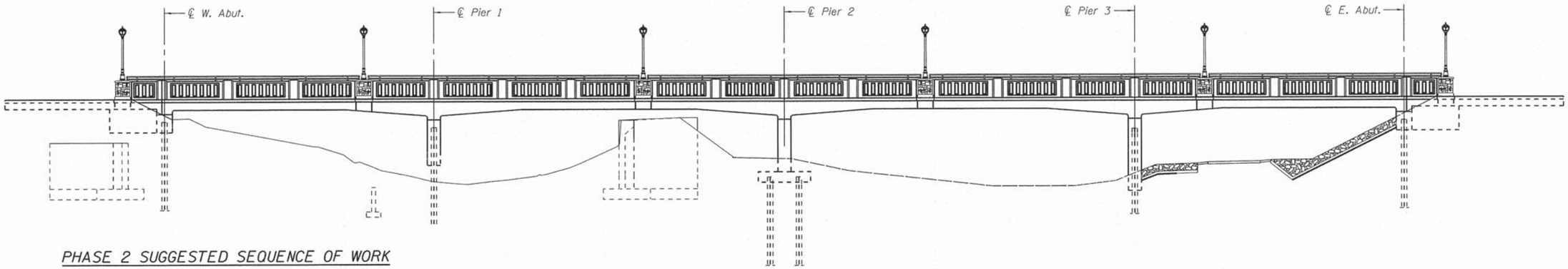
8:20:17 PM
10/20/2014
S:\1216\05_CADD\Cadd Sheets\0223045-00000-003-SL.dgn



PHASE 1 SUGGESTED SEQUENCE OF WORK

- Coordinate w/adjacent Contractor regarding excavation limits & schedule.
- Perform earth excavation.
- Remove existing structure to elevations shown.
- Install cofferdam.
- Perform structure and cofferdam excavation.
- Install storm sewer under W. Abut. and construct abutments and piers.
- Install riprap at east abutment.
- Remove cofferdam

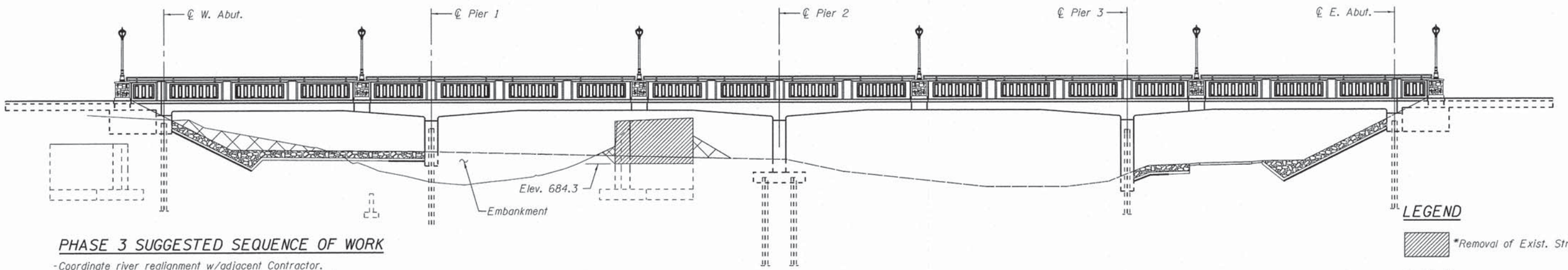
PHASE 1
EARTHWORK, STRUCTURE REMOVAL AND SUBSTRUCTURE CONSTRUCTION



PHASE 2 SUGGESTED SEQUENCE OF WORK

- Install false work & formwork.
- Construct bridge slab.
- Stress tendons.
- Remove false work.
- Construct approach slabs, sidewalk, path and railings

PHASE 2
SUPERSTRUCTURE CONSTRUCTION



PHASE 3 SUGGESTED SEQUENCE OF WORK

- Coordinate river realignment w/adjacent Contractor.
- Realign river to new location (by adjacent Contractor).
- Perform remaining earth excavation & install embankment.
- Remove remaining portion of existing east abutment and wingwalls.
- Install riprap at W. Abut.

PHASE 3
RIVER REALIGNMENT, EARTHWORK AND STRUCTURE REMOVAL

LEGEND

- *Removal of Exist. Structures
- Earth Excavation
- Structure Excavation

* See Sheet S-3 for additional notes.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

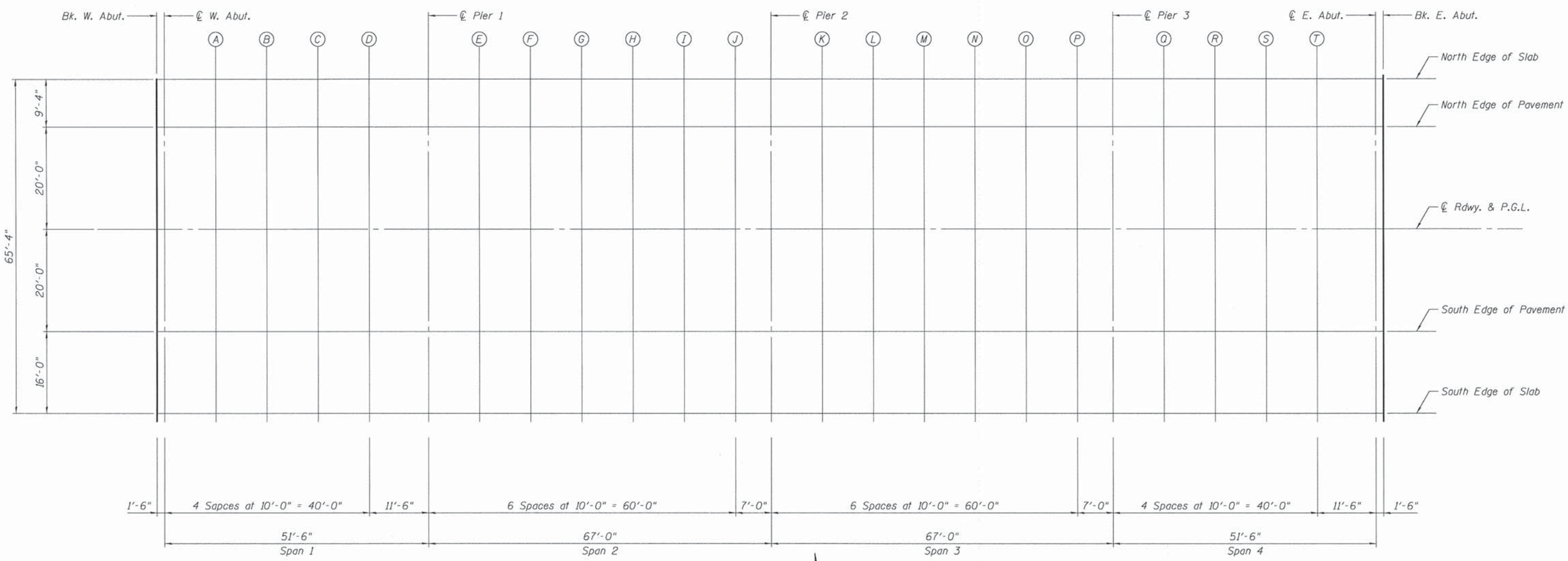
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

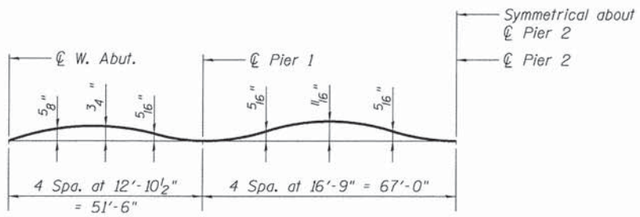
SUGGESTED SEQUENCE OF WORK
STRUCTURE NO. 022-3045

SHEET NO. S-4 OF S-40 SHEETS

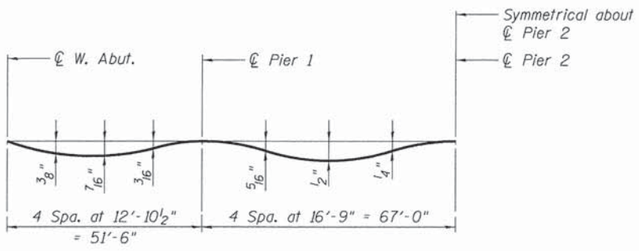
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	52
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			



PLAN



POST-TENSIONING DEFLECTION DIAGRAM



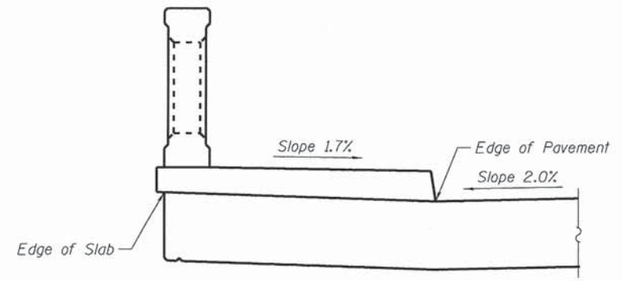
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Notes:

The Dead Load Deflection and Post-Tensioning Deflection Diagrams are not to be used in the field if the engineer is working from the grade elevations adjusted for Post-Tensioning and Dead Load Deflection.

The "Theoretical Grade Elevations adjusted for Post-Tensioning & Dead Load Deflections" assume deck forms will not deflect under dead load of deck concrete.



SECTION THRU SIDEWALK

(Looking East)

6:30:31 PM

10/20/2014

S:\1216\05_CADD\Cadd Sheets\R223845-080208-085-SEEI.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -
		CHECKED - BAK	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I
STRUCTURE NO. 022-3045
SHEET NO. S-5 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	53
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Post-Tensioning & Dead Load Deflection
Bk. W. Abut.	9+89.25	-29.33	695.89	695.89
℄ W. Abut.	9+90.75	-29.33	695.90	695.90
A	10+00.75	-29.33	695.95	695.94
B	10+10.75	-29.33	696.00	695.98
C	10+20.75	-29.33	696.05	696.03
D	10+30.75	-29.33	696.10	696.10
℄ Pier 1	10+42.25	-29.33	696.16	696.16
E	10+52.25	-29.33	696.21	696.21
F	10+62.25	-29.33	696.26	696.26
G	10+72.25	-29.33	696.33	696.31
H	10+82.25	-29.33	696.40	696.39
I	10+92.25	-29.33	696.49	696.49
J	11+02.25	-29.33	696.60	696.60
℄ Pier 2	11+09.25	-29.33	696.68	696.68
K	11+19.25	-29.33	696.81	696.81
L	11+29.25	-29.33	696.96	696.95
M	11+39.25	-29.33	697.12	697.11
N	11+49.25	-29.33	697.30	697.28
O	11+59.25	-29.33	697.49	697.49
P	11+69.25	-29.33	697.69	697.70
℄ Pier 3	11+76.25	-29.33	697.85	697.85
Q	11+86.25	-29.33	698.08	698.08
R	11+96.25	-29.33	698.32	698.30
S	12+06.25	-29.33	698.59	698.56
T	12+16.25	-29.33	698.86	698.85
℄ E. Abut.	12+27.75	-29.33	699.20	699.20
Bk. E. Abut.	12+29.25	-29.33	699.24	699.24

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Post-Tensioning & Dead Load Deflection
Bk. W. Abut.	9+89.25	-20.00	695.66	695.66
℄ W. Abut.	9+90.75	-20.00	695.67	695.67
A	10+00.75	-20.00	695.72	695.70
B	10+10.75	-20.00	695.77	695.74
C	10+20.75	-20.00	695.82	695.80
D	10+30.75	-20.00	695.87	695.86
℄ Pier 1	10+42.25	-20.00	695.93	695.93
E	10+52.25	-20.00	695.98	695.98
F	10+62.25	-20.00	696.03	696.03
G	10+72.25	-20.00	696.09	696.08
H	10+82.25	-20.00	696.17	696.16
I	10+92.25	-20.00	696.26	696.25
J	11+02.25	-20.00	696.36	696.37
℄ Pier 2	11+09.25	-20.00	696.45	696.45
K	11+19.25	-20.00	696.58	696.58
L	11+29.25	-20.00	696.73	696.72
M	11+39.25	-20.00	696.89	696.87
N	11+49.25	-20.00	697.06	697.05
O	11+59.25	-20.00	697.25	697.25
P	11+69.25	-20.00	697.46	697.47
℄ Pier 3	11+76.25	-20.00	697.61	697.61
Q	11+86.25	-20.00	697.84	697.84
R	11+96.25	-20.00	698.09	698.07
S	12+06.25	-20.00	698.35	698.33
T	12+16.25	-20.00	698.63	698.61
℄ E. Abut.	12+27.75	-20.00	698.97	698.97
Bk. E. Abut.	12+29.25	-20.00	699.01	699.01

℄ ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Post-Tensioning & Dead Load Deflection
Bk. W. Abut.	9+89.25	0.00	696.06	696.06
℄ W. Abut.	9+90.75	0.00	696.07	696.07
A	10+00.75	0.00	696.12	696.10
B	10+10.75	0.00	696.17	696.14
C	10+20.75	0.00	696.22	696.20
D	10+30.75	0.00	696.27	696.26
℄ Pier 1	10+42.25	0.00	696.33	696.33
E	10+52.25	0.00	696.38	696.38
F	10+62.25	0.00	696.43	696.43
G	10+72.25	0.00	696.49	696.48
H	10+82.25	0.00	696.57	696.56
I	10+92.25	0.00	696.66	696.65
J	11+02.25	0.00	696.76	696.77
℄ Pier 2	11+09.25	0.00	696.85	696.85
K	11+19.25	0.00	696.98	696.98
L	11+29.25	0.00	697.13	697.12
M	11+39.25	0.00	697.29	697.27
N	11+49.25	0.00	697.46	697.45
O	11+59.25	0.00	697.65	697.65
P	11+69.25	0.00	697.86	697.87
℄ Pier 3	11+76.25	0.00	698.01	698.01
Q	11+86.25	0.00	698.24	698.24
R	11+96.25	0.00	698.49	698.47
S	12+06.25	0.00	698.75	698.73
T	12+16.25	0.00	699.03	699.01
℄ E. Abut.	12+27.75	0.00	699.37	699.37
Bk. E. Abut.	12+29.25	0.00	699.41	699.41

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Post-Tensioning & Dead Load Deflection
Bk. W. Abut.	9+89.25	20.00	695.66	695.66
℄ W. Abut.	9+90.75	20.00	695.67	695.67
A	10+00.75	20.00	695.72	695.70
B	10+10.75	20.00	695.77	695.74
C	10+20.75	20.00	695.82	695.80
D	10+30.75	20.00	695.87	695.86
℄ Pier 1	10+42.25	20.00	695.93	695.93
E	10+52.25	20.00	695.98	695.98
F	10+62.25	20.00	696.03	696.03
G	10+72.25	20.00	696.09	696.08
H	10+82.25	20.00	696.17	696.16
I	10+92.25	20.00	696.26	696.25
J	11+02.25	20.00	696.36	696.37
℄ Pier 2	11+09.25	20.00	696.45	696.45
K	11+19.25	20.00	696.58	696.58
L	11+29.25	20.00	696.73	696.72
M	11+39.25	20.00	696.89	696.87
N	11+49.25	20.00	697.06	697.05
O	11+59.25	20.00	697.25	697.25
P	11+69.25	20.00	697.46	697.47
℄ Pier 3	11+76.25	20.00	697.61	697.61
Q	11+86.25	20.00	697.84	697.84
R	11+96.25	20.00	698.09	698.07
S	12+06.25	20.00	698.35	698.33
T	12+16.25	20.00	698.63	698.61
℄ E. Abut.	12+27.75	20.00	698.97	698.97
Bk. E. Abut.	12+29.25	20.00	699.01	699.01

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Post-Tensioning & Dead Load Deflection
Bk. W. Abut.	9+89.25	36.00	696.04	696.04
℄ W. Abut.	9+90.75	36.00	696.04	696.04
A	10+00.75	36.00	696.09	696.08
B	10+10.75	36.00	696.14	696.12
C	10+20.75	36.00	696.19	696.17
D	10+30.75	36.00	696.24	696.24
℄ Pier 1	10+42.25	36.00	696.30	696.30
E	10+52.25	36.00	696.35	696.36
F	10+62.25	36.00	696.41	696.40
G	10+72.25	36.00	696.47	696.45
H	10+82.25	36.00	696.54	696.53
I	10+92.25	36.00	696.63	696.63
J	11+02.25	36.00	696.74	696.74
℄ Pier 2	11+09.25	36.00	696.82	696.82
K	11+19.25	36.00	696.95	696.96
L	11+29.25	36.00	697.10	697.09
M	11+39.25	36.00	697.26	697.25
N	11+49.25	36.00	697.44	697.43
O	11+59.25	36.00	697.63	697.63
P	11+69.25	36.00	697.83	697.84
℄ Pier 3	11+76.25	36.00	697.99	697.99
Q	11+86.25	36.00	698.22	698.22
R	11+96.25	36.00	698.47	698.44
S	12+06.25	36.00	698.73	698.70
T	12+16.25	36.00	699.00	698.99
℄ E. Abut.	12+27.75	36.00	699.34	699.34
Bk. E. Abut.	12+29.25	36.00	699.39	699.39

6:36:32 PM 10/28/2014

S:\1216\05_CADD\Cadd Sheets\8223845-88888-886-SE82.dgn

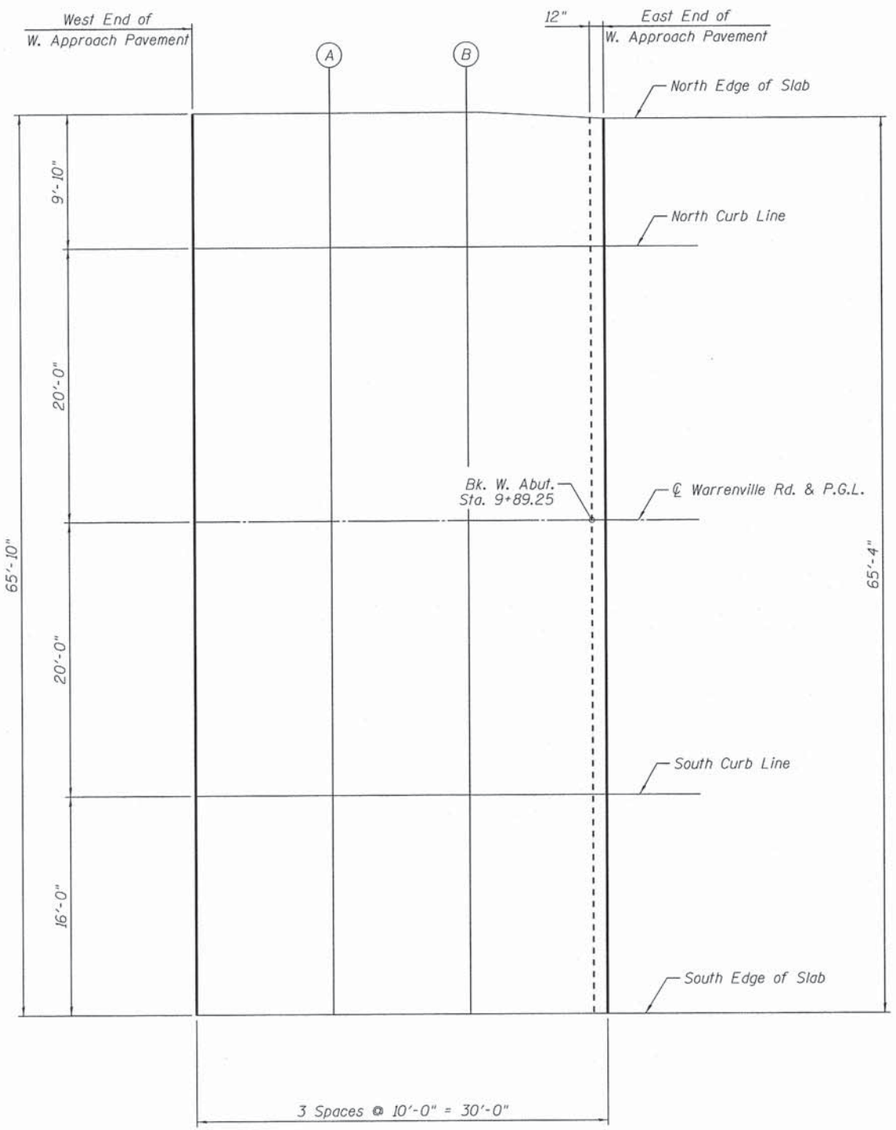
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS II
STRUCTURE NO. 022-3045
SHEET NO. S-6 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	54
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



PLAN

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt.	9+60.25	29.83'	695.78
A	9+70.25	29.83'	695.83
B	9+80.25	29.83'	695.88
Bk. W. Abut.	9+89.25	29.39'	695.92
E. End of W. Appr. Pvmt.	9+90.25	29.33'	695.93

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt.	9+60.25	20.00	695.52
A	9+70.25	20.00	695.57
B	9+80.25	20.00	695.62
Bk. W. Abut.	9+89.25	20.00	695.66
E. End of W. Appr. Pvmt.	9+90.25	20.00	695.67

℄ WARRENVILLE RD. & P.G.L.

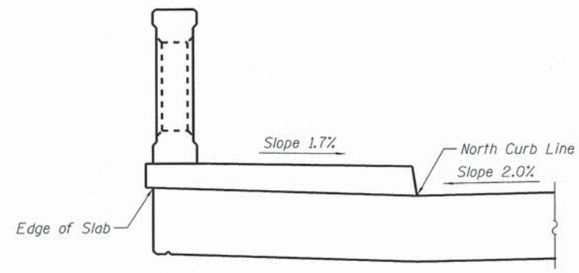
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt.	9+60.25	0.00	695.92
A	9+70.25	0.00	695.97
B	9+80.25	0.00	696.02
Bk. W. Abut.	9+89.25	0.00	696.06
E. End of W. Appr. Pvmt.	9+90.25	0.00	696.07

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt.	9+60.25	-20.00	695.52
A	9+70.25	-20.00	695.57
B	9+80.25	-20.00	695.62
Bk. W. Abut.	9+89.25	-20.00	695.66
E. End of W. Appr. Pvmt.	9+90.25	-20.00	695.67

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt.	9+60.25	-36.00	695.88
A	9+70.25	-36.00	695.93
B	9+80.25	-36.00	695.98
Bk. W. Abut.	9+89.25	-36.00	696.03
E. End of W. Appr. Pvmt.	9+90.25	-36.00	696.03



SECTION THRU SIDEWALK
(Looking East)

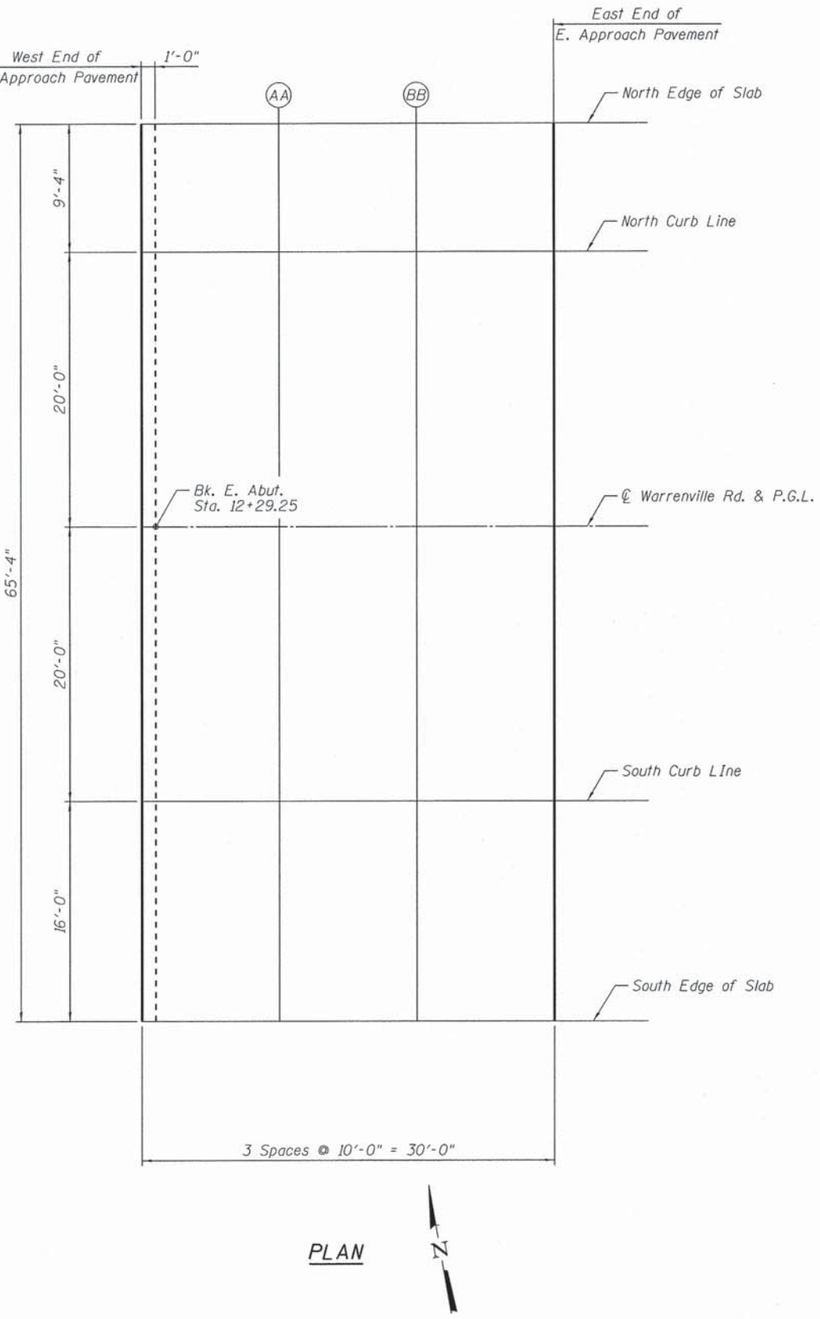
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 022-3045
SHEET NO. S-7 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	55
CH 32	WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



PLAN

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt.	12+28.25	29.33′	699.24
Bk. E. Abut.	12+29.25	29.33′	699.27
AA	12+38.25	29.33′	699.55
BB	12+48.25	29.33′	699.87
E. End of E. Appr. Pvmt.	12+58.25	29.33′	700.21

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt.	12+28.25	20.00	698.98
Bk. E. Abut.	12+29.25	20.00	699.01
AA	12+38.25	20.00	699.29
BB	12+48.25	20.00	699.61
E. End of E. Appr. Pvmt.	12+58.25	20.00	699.95

℄ WARRENVILLE RD. & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt.	12+28.25	0.00	699.38
Bk. E. Abut.	12+29.25	0.00	699.41
AA	12+38.25	0.00	699.69
BB	12+48.25	0.00	700.01
E. End of E. Appr. Pvmt.	12+58.25	0.00	700.35

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt.	12+28.25	-20.00	698.98
Bk. E. Abut.	12+29.25	-20.00	699.01
AA	12+38.25	-20.00	699.29
BB	12+48.25	-20.00	699.61
E. End of E. Appr. Pvmt.	12+58.25	-20.00	699.95

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt.	12+28.25	-36.00	699.35
Bk. E. Abut.	12+29.25	-36.00	699.38
AA	12+38.25	-36.00	699.66
BB	12+48.25	-36.00	699.98
E. End of E. Appr. Pvmt.	12+58.25	-36.00	700.32

10:22:02 PM

12/21/2014

S:\1216\05_CADD\Cadd Sheets\8223845-88888-888-HSE2.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

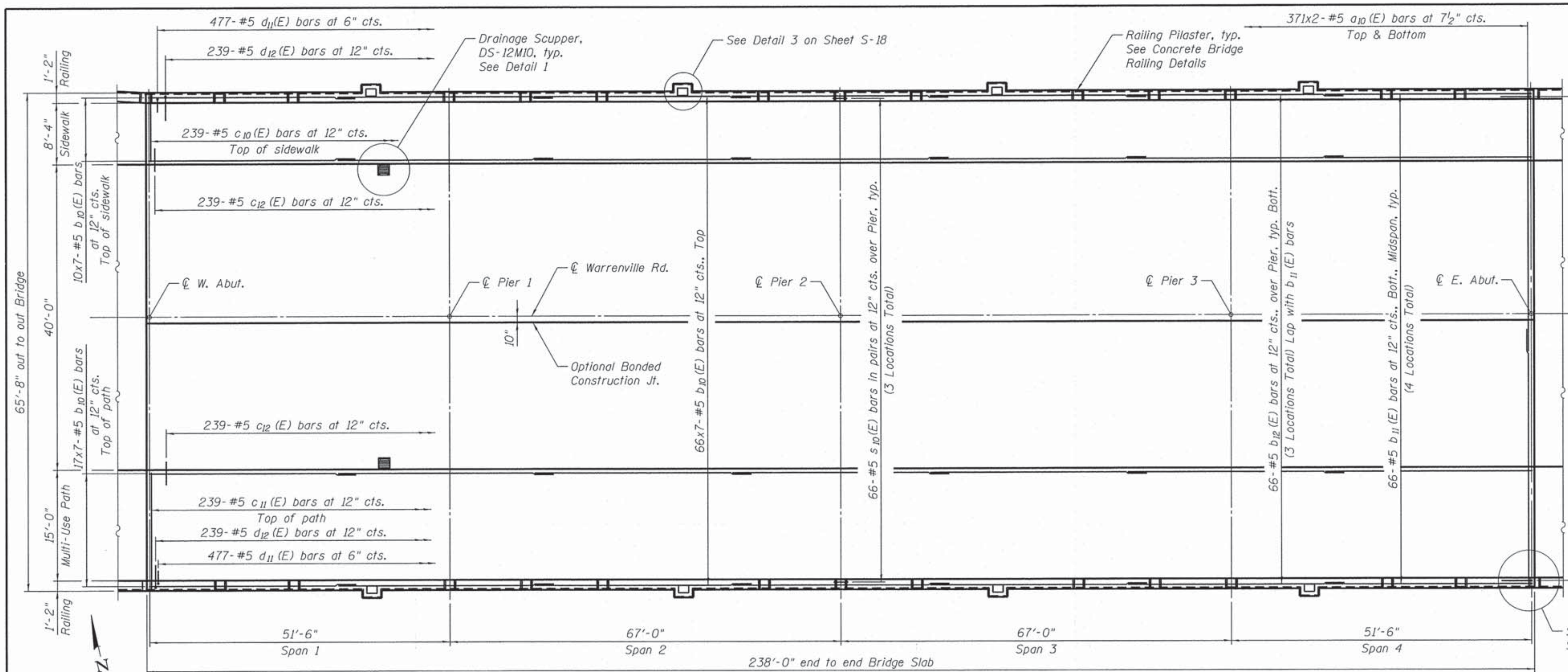
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

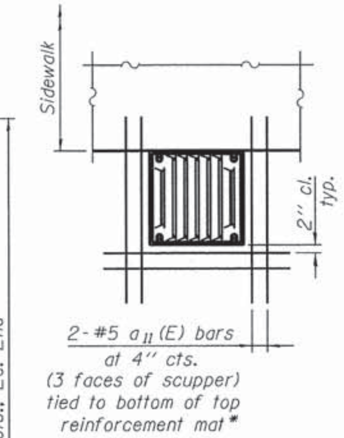
TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 022-3045

SHEET NO. S-8 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	56
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			



SUPERSTRUCTURE PLAN

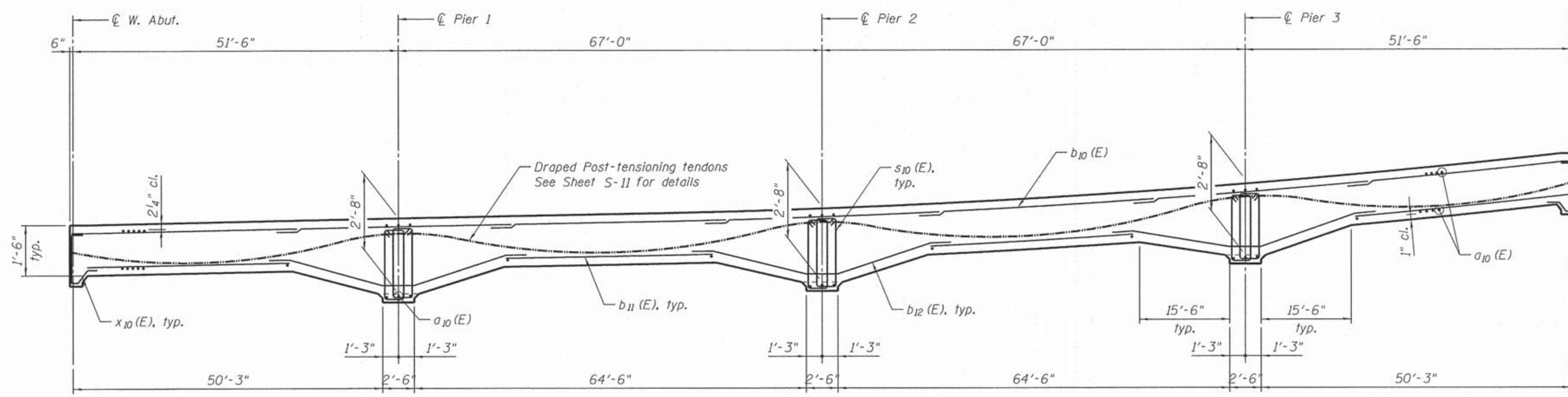


DETAIL 1

* Cut longitudinal reinforcement to clear drainage scuppers.

MIN. BAR LAP

#5 - 3'-3"



BRIDGE SLAB LONGITUDINAL SECTION

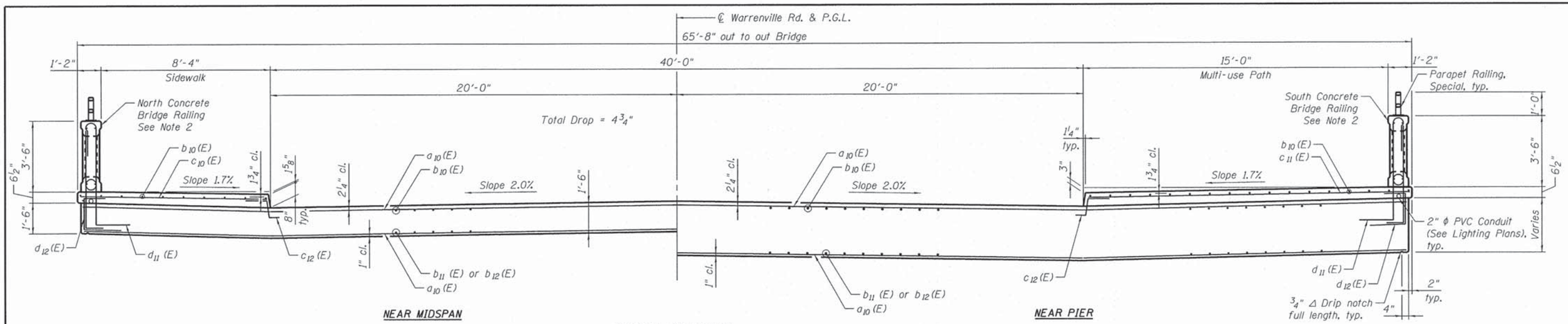
Notes:

1. See Sheet S-10 of S-40 for superstructure details and Bill of Material.
2. Bars indicated thus 66 x 7-#5 etc. indicates 66 lines of bars with 7 lengths per line.
3. See Sheets S-15 and S-16 of S-40 for Concrete Bridge Railing details.
4. See Sheet S-19 of S-40 for Drainage Scupper details.
5. The locations of s_{10}(E) and x_{10} (E) bars may be adjusted to miss post-tensioning ducts and anchorage assemblies, respectively.
6. Stone Pier details, light poles and parapet railing not shown for clarity.
7. See Sheet S-18 for Stone Pier details.
8. When the bridge slab pour is stopped for the day at the longitudinal bonded construction joint shown, the next pour shall not be made until both of the following are met:
   a. At least 72 hours shall have elapsed from the end of the previous pour.
   b. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - IYL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE PLAN AND LONGITUDINAL SECTION STRUCTURE NO. 022-3045
	PLOT SCALE =	CHECKED - BAK	REVISED -		
		DRAWN - MTR	REVISED -		
	PLOT DATE =10/20/2014	CHECKED - IYL	REVISED -		SHEET NO. S-9 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	57
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
		ILLINOIS FED. AID PROJECT		

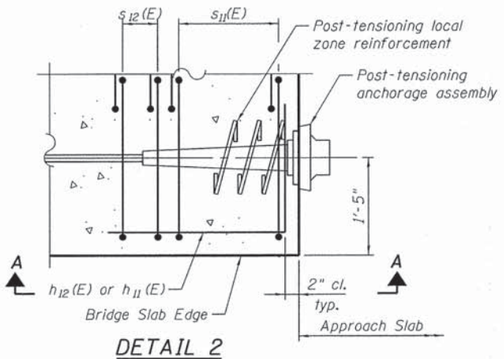
S:\1216\05_CADD\Cadd Sheets\0223045-02000-009-SP.dgn 12/21/2014 9:31:45 PM



NEAR MIDSPAN

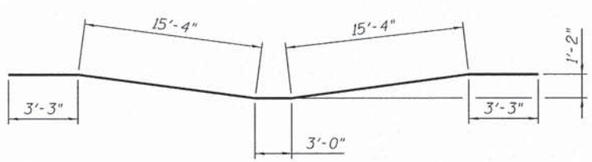
NEAR PIER

CROSS SECTION
(Looking East)

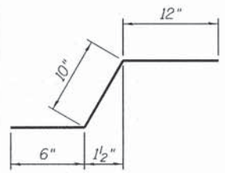


DETAIL 2
(Showing SE corner of Bridge Slab. other 3 corners similar)

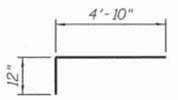
VIEW A-B



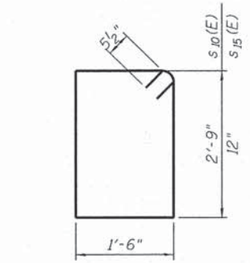
BAR b12(E)



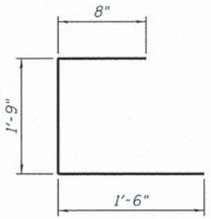
BAR c12(E)



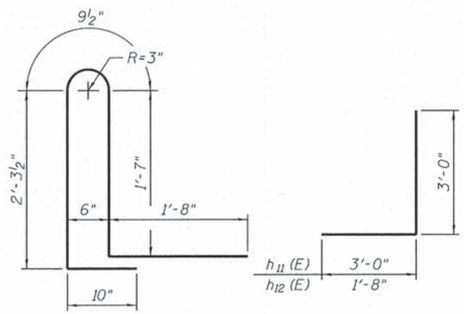
BAR a12(E)



BARS s10(E) & s15(E)

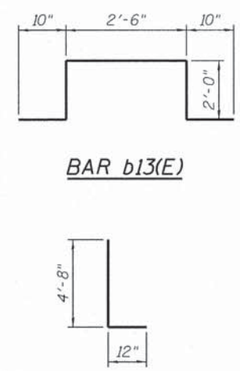


BAR d12(E)



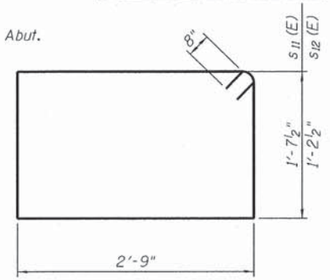
BAR d11(E)

BARS h11 (E) & h12(E)

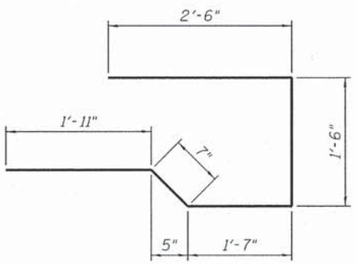


BAR b13(E)

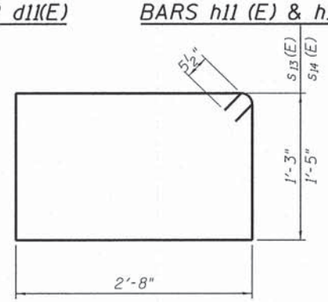
BAR d13(E)



BARS s11(E) & s12(E)



BAR x10(E)



BARS s13(E) & s14(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	1484	#5	34'-2"	
a11(E)	12	#5	4'-0"	
a12(E)	32	#6	5'-10"	
a13(E)	32	#5	3'-11"	
b10(E)	651	#5	36'-10"	
b11(E)	264	#5	35'-2"	
b12(E)	198	#5	40'-2"	
b13(E)	8	#5	8'-2"	
b14(E)	16	#5	3'-0"	
c10(E)	239	#5	9'-0"	
c11(E)	239	#5	15'-8"	
c12(E)	478	#5	2'-4"	
c13(E)	32	#5	3'-11"	
d11(E)	954	#5	7'-2"	
d12(E)	478	#5	3'-11"	
d13(E)	80	#6	5'-8"	
h11(E)	12	#6	6'-0"	
h12(E)	4	#6	4'-8"	
s10(E)	396	#5	9'-5"	
s11(E)	260	#6	10'-1"	
s12(E)	156	#6	9'-3"	
s13(E)	8	#5	8'-9"	
s14(E)	8	#5	9'-1"	
s15(E)	32	#5	5'-11"	
x10(E)	132	#5	8'-1"	

(1)	Concrete Superstructure	Cu. Yd.	1036.3
(2)	Concrete Superstructure	Cu. Yd.	139.6
*	Protective Coat	Sq. Yd.	1950
	Bridge Deck Grooving	Sq. Yd.	1005
	Reinforcement Bars, Epoxy Coated	Pound	125,250

Notes:

1. Work this sheet with Sheet S-9 of S-40.
2. See Sheets S-15 and S-16 of S-40 for Concrete Bridge Railing details. Cost of concrete railings included with Concrete Bridge Rail, Sidewalk Mounted.
3. See Sheet S-17 for Parapet Railing, Special details.
4. Drainage Scuppers not shown in cross section for clarity. See Sheet S-19 for details.

(1) Bridge Slab: Class BS concrete according to Section 1020 of the Standard Specifications, except that the min. compressive strength at 14 days shall be 5,000 psi.

(2) Sidewalk: Class BS according to Section 1020 of the Standard Specifications.

* Includes exposed surfaces on top of slab, top and inside faces of sidewalk and path and inside face of concrete railings.

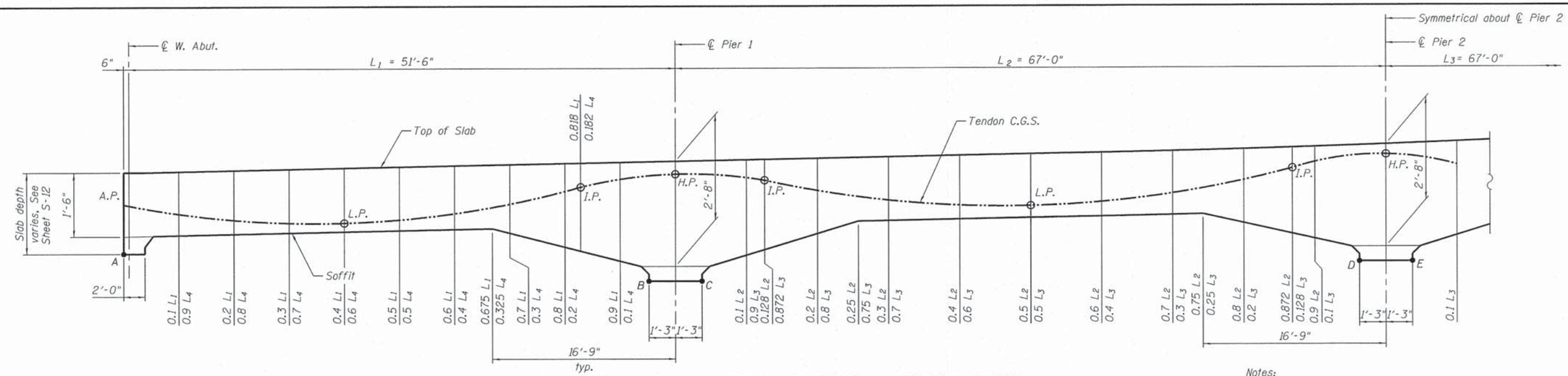
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.226.0100
www.bbandainc.com

USER NAME =	DESIGNED - IYL	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - IYL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

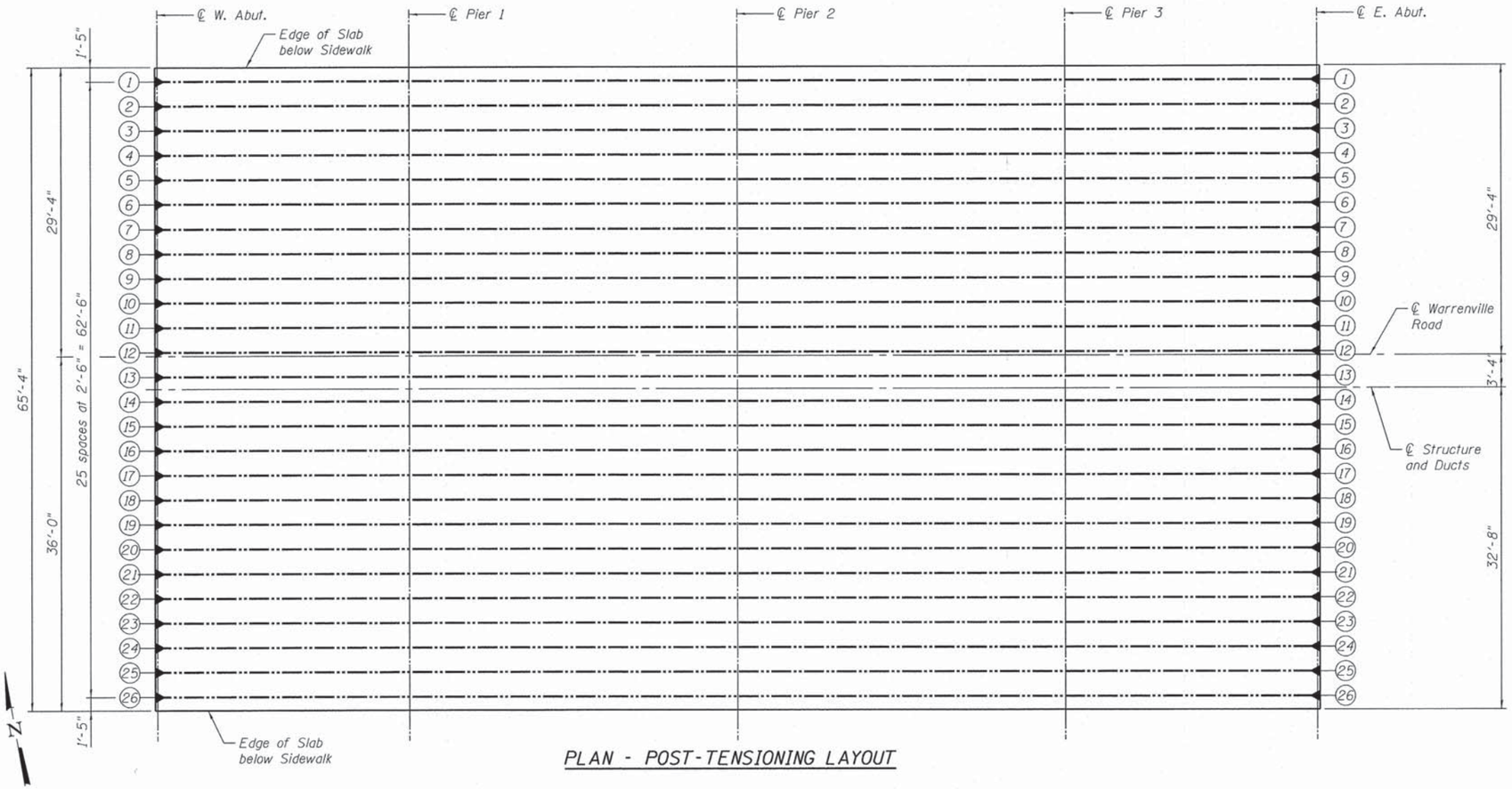
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 022-3045
SHEET NO. S-10 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	58
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



VERTICAL SCHEMATIC - LONGITUDINAL TENDON LAYOUT

Longitudinal dimensions given along ℄ Warrenville Rd.



PLAN - POST-TENSIONING LAYOUT

Notes:

1. *C.G.S. denotes center of gravity of prestressing steel.*
2. *All tendons are stressed on one end at a time. See Sheet S-12 for Suggested Stressing Sequence.*
3. *Ducts shall be placed to achieve the profile for tendon C.G.S. shown on the vertical schematic where:*
   A.P. = Anchor Point
   L.P. = Low Point
   H.P. = High Point
   I.P. = Inflection Point
4. *Tendons shall be parabolically curved between control points (A.P., L.P., I.P., and H.P.).*
5. *The post-tensioning Contractor/ Supplier shall design and supply the anchorage assembly and the local zone reinforcing for all anchorage locations. Any required modifications to general zone and edge reinforcement (shown in Detail 2 & View A-A on Sheet S-10) shall be designed by the Contractor/Supplier and approved by the Engineer. Cost included with Furnishing, Installing and Stressing Post-Tensioning Tendons.*
6. *Superstructure Erection Sequence:*
   a. Form and pour slab on temporary falsework.
   b. Stress tendons according to the suggested stressing sequence after the deck has cured to a minimum compressive strength of 4,000 psi and is at least 3 days old.
   c. Grout post-tensioning ducts.
   d. Remove temporary falsework and slab forms after the P.T. duct grout has cured to a minimum compressive strength of 5,000 psi.
7. *The Contractor shall submit detailed plans and calculations for falsework and forms to the Engineer for approval.*
8. *AASHTO M203, Grade 270 low relaxation strands (0.6" dia.) shall be used.*
9. *Tendon Design Properties*
   a. Friction coefficient = 0.25
   b. Wobble coefficient = 0.0002 1/ft.
   c. Max. Jacking Stress = 0.81 fpu
   d. Max. Stress at Anchor after seating = 0.7 fpu
   e. Assumed Anchor Set = $\frac{3}{8}$"
10. *See Furnishing, Installing and Stressing Post-Tensioning Tendons Special Provision.*
11. *For slab depth and tendon profile, see Sheet S-12.*

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLAB GEOMETRY & POST-TENSIONING
STRUCTURE NO. 022-3045
SHEET NO. S-11 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	59
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

SLAB DEPTH AND TENDON PROFILE

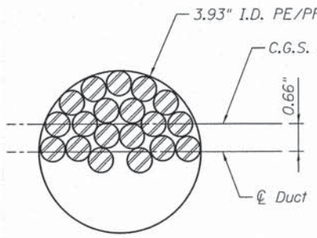
Location	Depth of Slab (Along PGL)	Tendon C.G.S. Profile (measured from T/slab)
A	2'-3 3/4"±	9"
℄ W. Abut.	2'-3 3/4"±	9"
0.1L1	1'-6"	10 11/16"
0.2L1	1'-6"	11 5/16"
0.3L1	1'-6"	1'-0 5/8"
0.4L1	1'-6"	1'-0 7/8"
0.5L1	1'-6"	1'-0 5/8"
0.6L1	1'-6"	11 5/16"
0.675L1	1'-6"	11 1/32"
0.7L1	1'-7 1/4"	10 11/16"
0.8L1	2'-0 1/8"	9"
0.818L1	2'-1"	8 21/32"
0.9L1	2'-5 1/16"	7 11/32"
B	3'-3 7/8"	6 21/32"
℄ Pier 1	3'-3 7/8"	6 13/16"
C	3'-3 7/8"	6 21/32"
0.1L2	2'-3 9/16"	8 3/8"
0.128L2	2'-1 3/4"	8 11/32"
0.2L2	1'-9 3/16"	9 15/16"
0.25L2	1'-6"	10 13/16"
0.3L2	1'-6"	11 1/2"
0.4L2	1'-6"	1'-0 1/2"
0.5L2	1'-6"	1'-0 13/16"
0.6L2	1'-6"	1'-0 1/2"
0.7L2	1'-6"	11 1/2"
0.75L2	1'-6"	10 13/16"
0.8L2	1'-9 3/16"	9 15/16"
0.872L2	2'-1 3/4"	8 11/32"
0.9L2	2'-3 9/16"	7 3/4"
D	3'-4"	6 21/32"
℄ Pier 2	3'-4 5/16"	6 13/16"
E	3'-4 5/16"	6 21/32"
0.1L3	2'-3 9/16"	7 3/4"
.128L3	2'-1 3/4"	8 11/32"
0.2L3	1'-9 3/16"	9 15/16"
0.25L3	1'-6"	10 13/16"
0.3L3	1'-6"	11 1/2"
0.4L3	1'-6"	1'-0 1/2"
0.5L3	1'-6"	1'-0 13/16"
0.6L3	1'-6"	1'-0 1/2"
0.7L3	1'-6"	11 1/2"
0.75L3	1'-6"	10 15/16"
0.8L3	1'-9 3/16"	9 15/16"
0.872L3	2'-1 3/4"	8 11/32"
0.9L3	2'-3 9/16"	8 3/8"
F	3'-4"	6 21/32"
℄ Pier 3	3'-4 5/16"	6 13/16"
G	3'-4 11/16"	6 21/32"
0.1L4	2'-5 1/16"	7 11/32"
0.182L4	2'-1"	8 21/32"
0.2L4	2'-0 1/8"	9"
0.3L4	1'-7 1/4"	10 11/16"
0.325L4	1'-6"	11 1/32"
0.4L4	1'-6"	11 15/16"
0.5L4	1'-6"	1'-0 5/8"
0.6L4	1'-6"	1'-0 7/8"
0.7L4	1'-6"	1'-0 5/8"
0.8L4	1'-6"	11 15/16"
0.9L4	1'-6"	10 11/16"
℄ E. Abut.	2'-3 3/8"±	9"
H	2'-3 7/8"±	9"

SUGGESTED STRESSING SEQUENCE

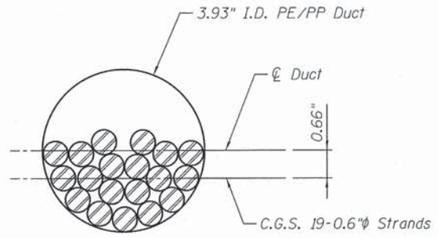
	Sequence	Tendon No.	No. Strands	Jacking Force (Kips)
JACK AT E.ABUT.	1	9	19	890.6
	2	17	19	890.6
	3	3	19	890.6
	4	23	19	890.6
	5	5	19	890.6
	6	21	19	890.6
	7	7	19	890.6
	8	11	19	890.6
	9	19	19	890.6
	10	15	19	890.6
	11	13	19	890.6
	12	1	19	890.6
	13	25	19	890.6
JACK AT W.ABUT.	14	8	19	890.6
	15	18	19	890.6
	16	4	19	890.6
	17	22	19	890.6
	18	10	19	890.6
	19	16	19	890.6
	20	2	19	890.6
	21	24	19	890.6
	22	20	19	890.6
	23	6	19	890.6
	24	12	19	890.6
	25	14	19	890.6
	26	26	19	890.6
JACK AT E.ABUT.	27	26	19	890.6
	28	14	19	890.6
	29	12	19	890.6
	30	6	19	890.6
	31	20	19	890.6
	32	24	19	890.6
	33	2	19	890.6
	34	16	19	890.6
	35	10	19	890.6
	36	22	19	890.6
	37	4	19	890.6
	38	18	19	890.6
	39	8	19	890.6
JACK AT W.ABUT.	40	25	19	890.6
	41	1	19	890.6
	42	13	19	890.6
	43	15	19	890.6
	44	19	19	890.6
	45	11	19	890.6
	46	7	19	890.6
	47	21	19	890.6
	48	5	19	890.6
	49	23	19	890.6
	50	3	19	890.6
	51	17	19	890.6
	52	9	19	890.6

Notes:

1. *In addition to the above sequence, the tendon at each anchor point shall be restressed as needed to reach the above jacking force. Cost included with Furnishing, Installing and Stressing Post-Tensioning Tendons.*



AT LOW POINT



AT HIGH POINT

ASSUMED OFFSET OF TENDONS IN DUCT

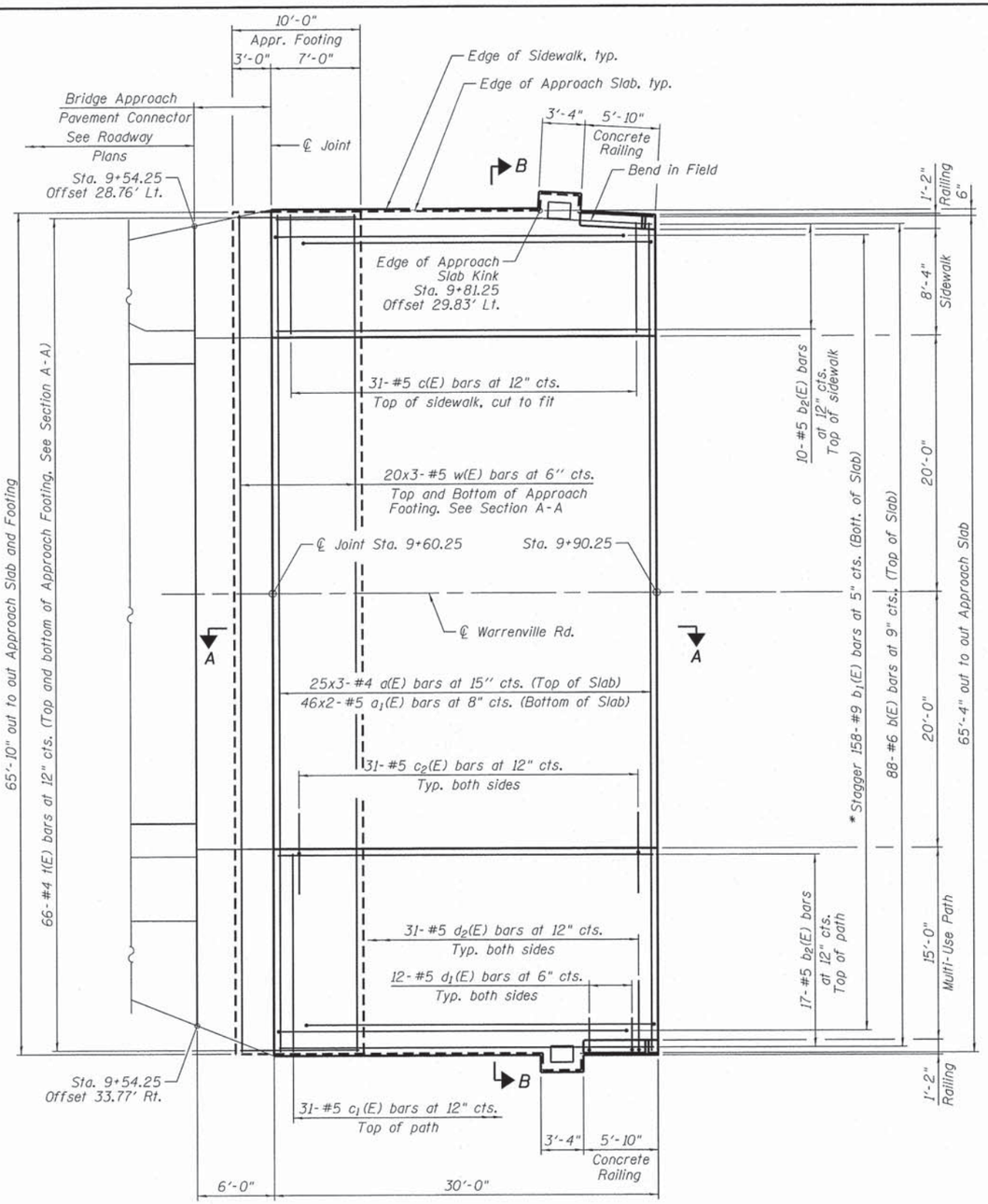
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -	
	CHECKED - BAK	REVISED -	
PLOT SCALE =	DRAWN - MTR	REVISED -	
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -	

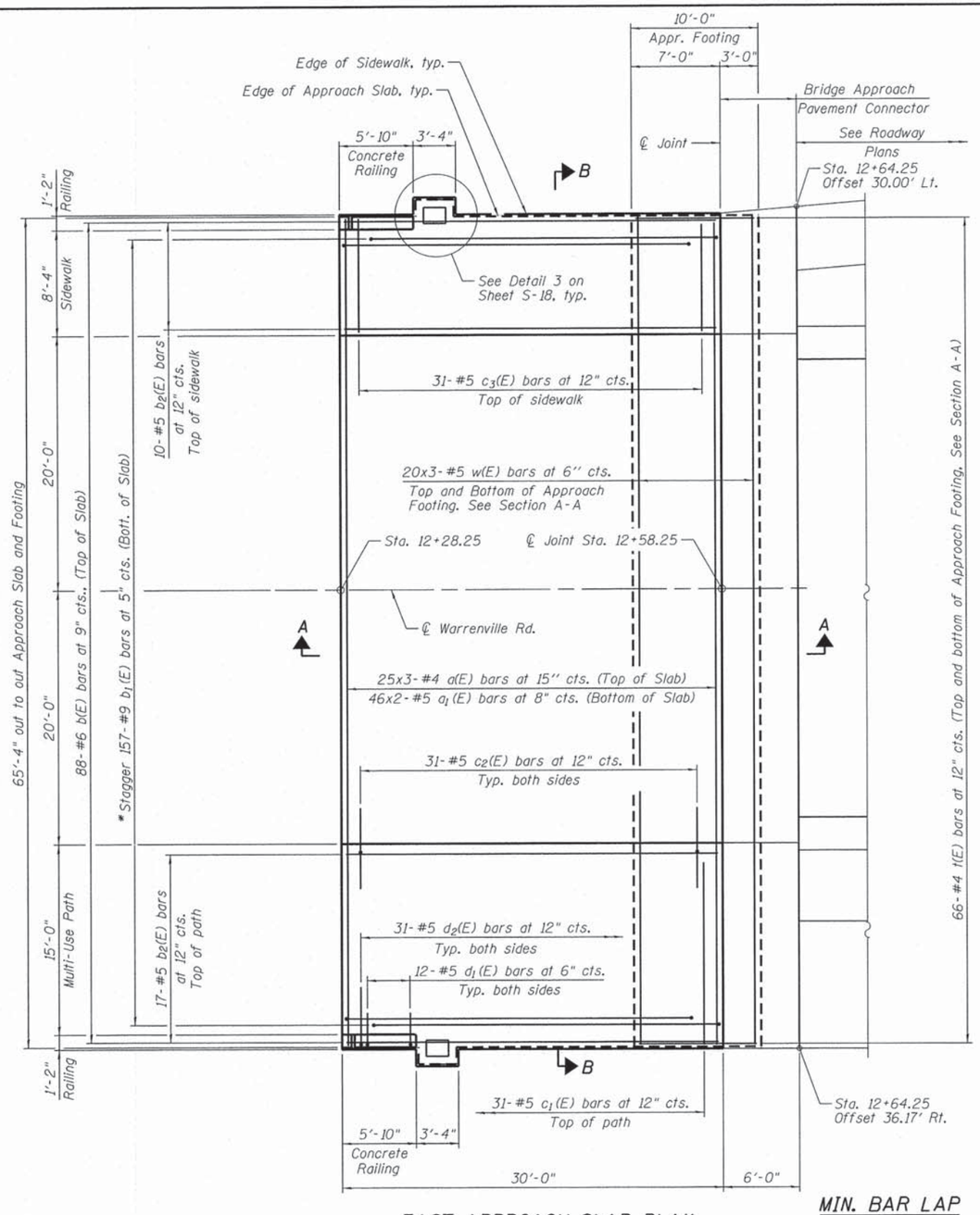
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POST-TENSIONING DETAILS
STRUCTURE NO. 022-3045
SHEET NO. S-12 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	60
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				



WEST APPROACH SLAB PLAN



EAST APPROACH SLAB PLAN

MIN. BAR LAP

#4 -2'-7"
#5 -3'-3"

Note:

See Sheet S-14 for Sections A-A and B-B.

* Tilt bars as required to maintain clearance.

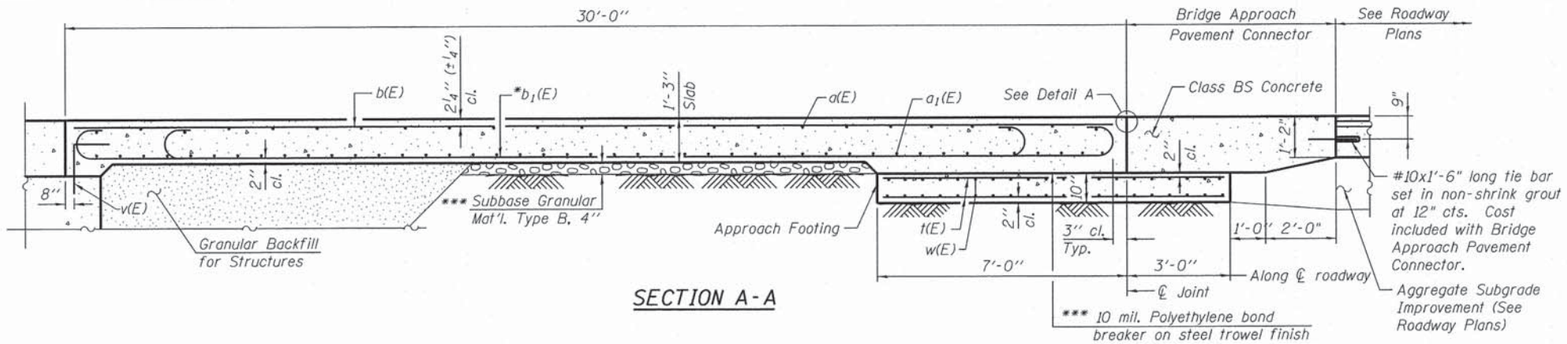
BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -
		CHECKED - BAK	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB PLAN
STRUCTURE NO. 022-3045
SHEET NO. S-13 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	61
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

S:\2161\05_CADD\Cadd Sheets\0223045-00000-013-4581.dgn
12/21/2014
9:31:58 PM

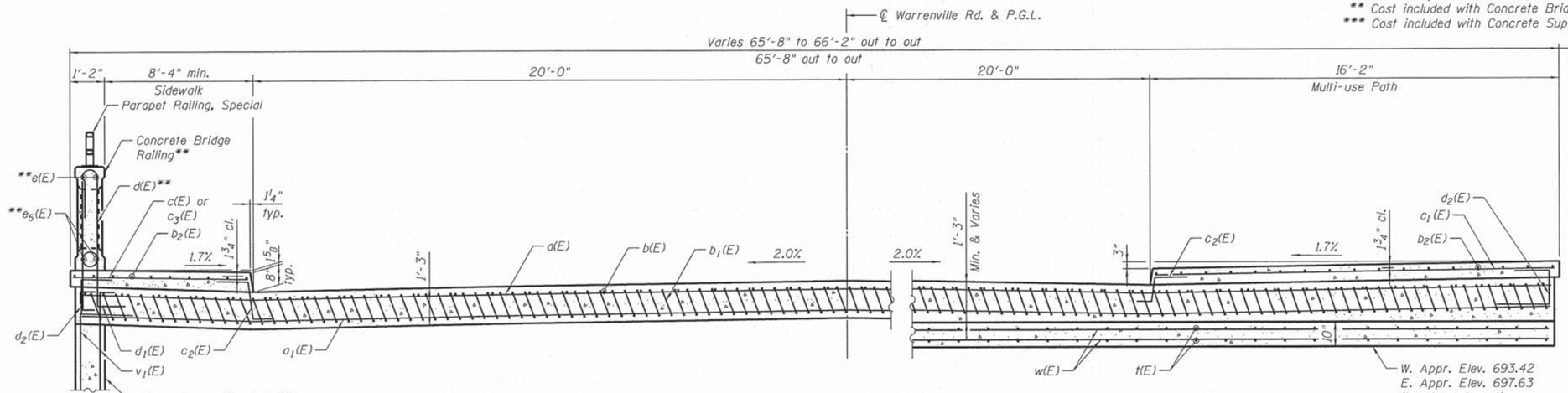


SECTION A-A

Notes:

Approach slab and sidewalk 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-22 of S-40.
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-22 of S-40.
For Concrete Bridge Railing details, see sheet S-15 and S-16 of S-40.
The joint opening shall be determined per Article 520.04 except that 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 2¼" for installation purposes.
The Bridge Approach Pavement Connector shall be tied to the pavement and curb and gutter as shown. Provide ½" PJF between end of Bridge Approach Pavement Connector and the 5" sidewalk. Cost included with Bridge Approach Pavement Connector.
The Bridge Approach Pavement Connector shall include a raised sidewalk matching the sidewalk at the end of the bridge approach slab. Cost included with Bridge Approach Pavement Connector.
See Sheet S-10 of S-40 for bar bend details not shown this sheet.

* Tilt #9 $b_1(E)$ bars as required to maintain clearance.
** Cost included with Concrete Bridge Railing, Sidewalk Mounted.
*** Cost included with Concrete Superstructure.



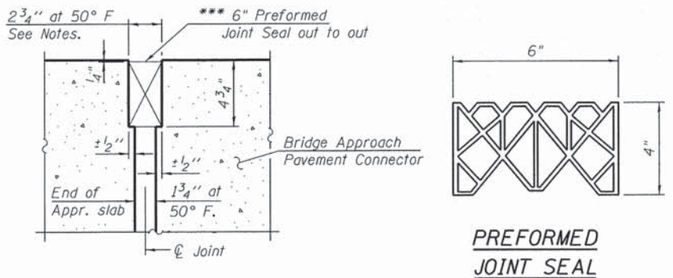
NEAR ABUTMENT
(North side shown, south side similar, opposite hand)

SECTION B-B

AT APPROACH FOOTING
(South side shown, north side similar, opposite hand)

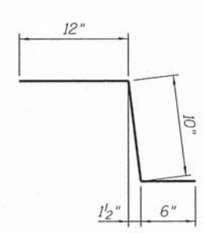
TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	150	#4	23'-7"	
$a_1(E)$	184	#5	35'-3"	
$a_{12}(E)$	16	#6	5'-10"	
$a_{13}(E)$	16	#5	3'-11"	
b(E)	176	#6	29'-8"	
$b_1(E)$	315	#9	29'-9"	
$b_2(E)$	54	#5	29'-8"	
$b_{13}(E)$	4	#5	8'-2"	
$b_{14}(E)$	8	#5	3'-0"	
c(E)	31	#5	9'-6"	
$c_1(E)$	62	#5	15'-8"	
$c_2(E)$	124	#5	2'-4"	
$c_3(E)$	31	#5	9'-0"	
$c_{13}(E)$	16	#5	3'-11"	
$d_1(E)$	48	#5	6'-2"	
$d_2(E)$	124	#5	3'-6"	
$d_{13}(E)$	40	#6	5'-8"	
$s_{15}(E)$	16	#5	5'-11"	
$s_{16}(E)$	8	#5	7'-11"	
t(E)	264	#4	9'-8"	
w(E)	240	#5	24'-0"	
Concrete Superstructure			Cu. Yd.	236.8
Concrete Structures			Cu. Yd.	40.4
Reinforcement Bars, Epoxy Coated			Pound	61,730
Protective Coat			Sq. Yd.	480
Bridge Deck Grooving			Sq. Yd.	254

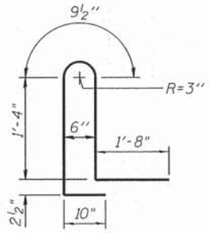


DETAIL A

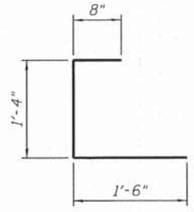
PREFORMED JOINT SEAL
(DS Brown AF-600 or equivalent)



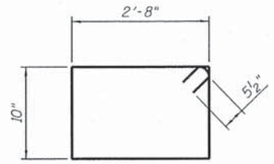
BAR $c_2(E)$



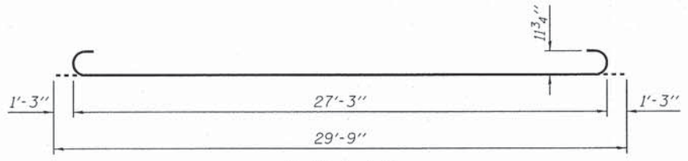
BAR $d_1(E)$



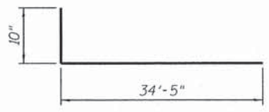
BAR $d_2(E)$



BAR $s_{16}(E)$



BAR $b_1(E)$



BAR $a_1(E)$

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

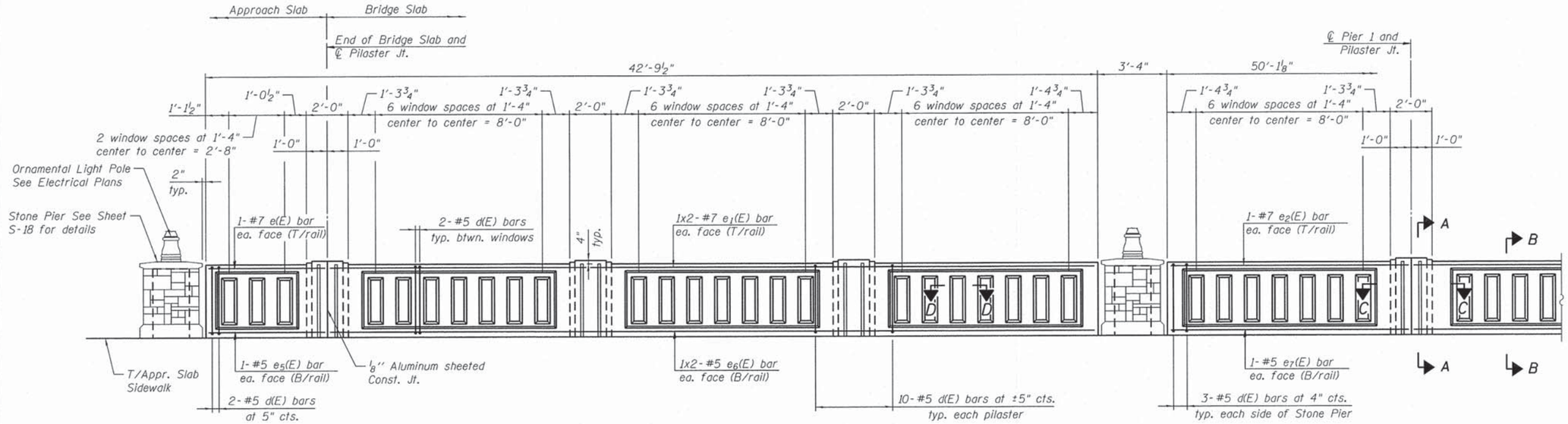
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 022-3045
SHEET NO. S-14 OF S-40 SHEETS

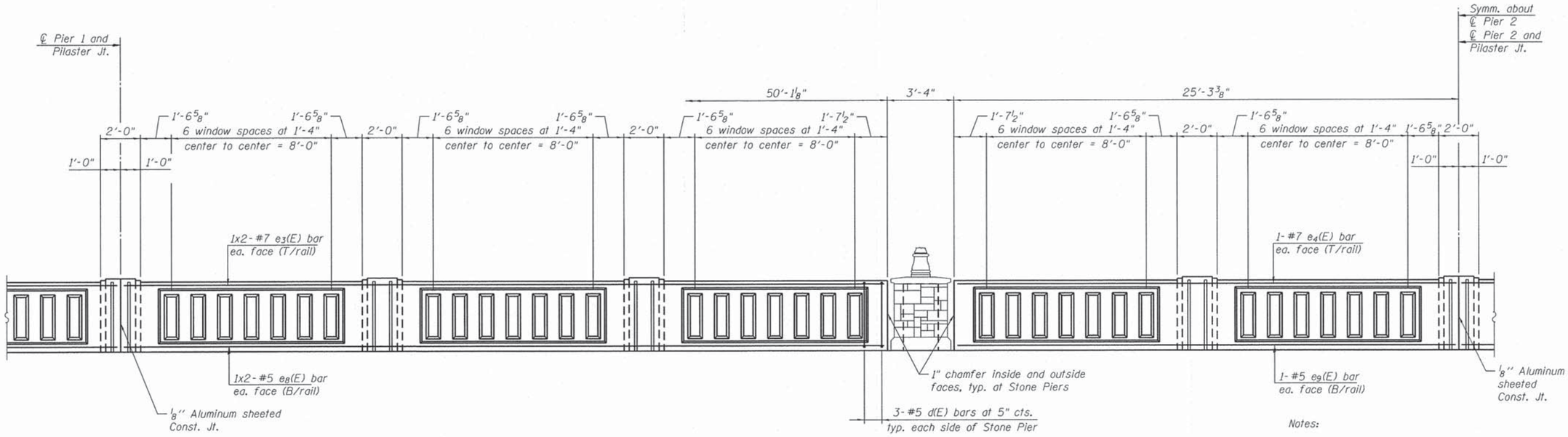
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	62
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
		ILLINOIS FED. AID PROJECT		

12/21/2014
S:\1216\05_CADD\Cadd Sheets\022345-00000-0114-4502.dgn
9:31:51 PM



MINIMUM BAR LAP

#5 bar = 2'-6"
#7 bar = 3'-11"



INSIDE ELEVATION OF RAIL

Notes:

1. For sections A-A thru D-D and other railing details, see Sheet S-16.
2. Steel railing on top of concrete railing not shown for clarity.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

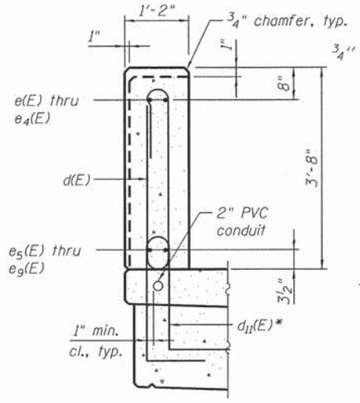
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

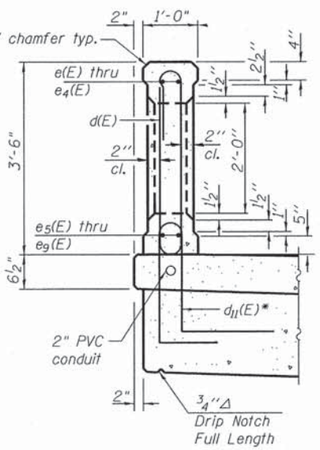
CONCRETE BRIDGE RAILING DETAILS I
STRUCTURE NO. 022-3045
SHEET NO. S-15 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	63
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

9:49:21 PM
12/21/2014
S:\1216\05_CADD\Cadd Sheets\0222845-00000-817-BR03.dgn

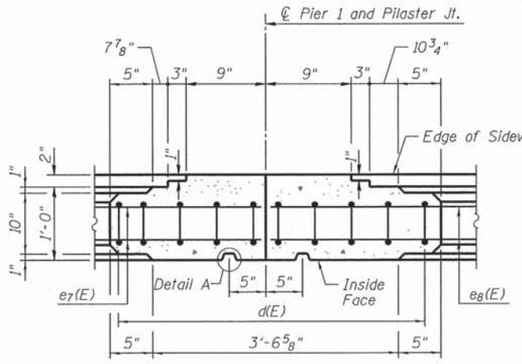


SECTION A-A

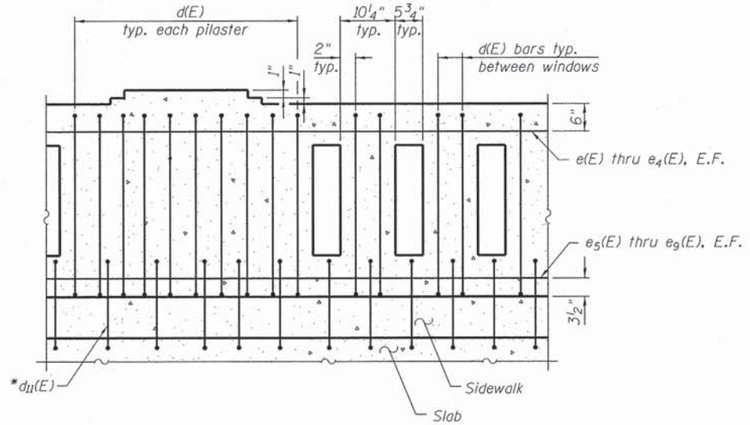


SECTION B-B

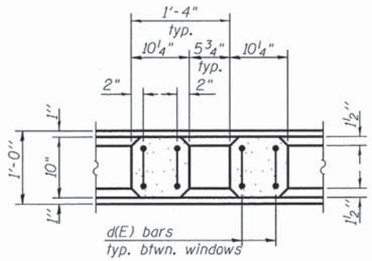
*$d_{11}(E)$ bars are included in the cost of Reinforcement Bars, Epoxy Coated. See Superstructure and Approach Slab sheets.



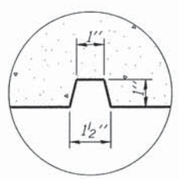
SECTION C-C
(Abutment and Pier 2 similar)



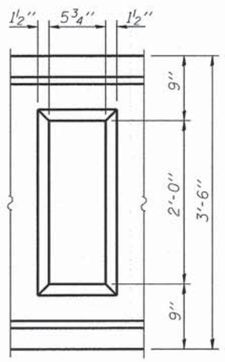
TYPICAL REINFORCEMENT PLACEMENT



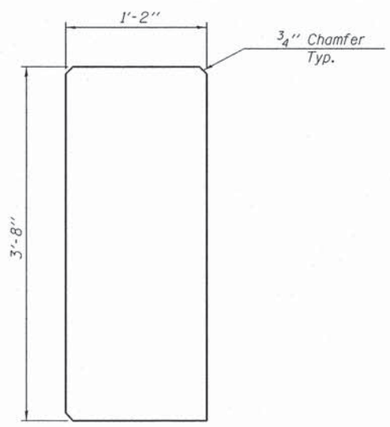
SECTION D-D



DETAIL A



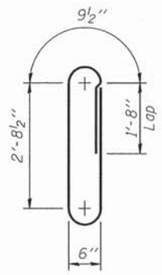
WINDOW DETAIL



ALUMINUM JOINT DETAILS

Notes:

1. All concrete for railing shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.
2. All parts and labor for the railing, including concrete, reinforcing, and rubbed finish, will be paid for at the contract unit price per foot for Concrete Bridge Rail, Sidewalk Mounted.
3. Holes and recesses must be formed or cored. Drilling is not permitted.
4. Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.
5. See Superstructure and Approach Slab sheets for sidewalk and slab reinforcement.



BAR d(E)

BAR LIST - ALL RAILINGS

Bar	No.	Size	Length	Shape
d(E)	804	#5	8'-8"	
e(E)	8	#7	5'-6"	
$e_1(E)$	16	#7	20'-4"	
$e_2(E)$	8	#7	11'-4"	
$e_3(E)$	16	#7	21'-0"	
$e_4(E)$	8	#7	24'-11"	
$e_5(E)$	8	#5	5'-6"	
$e_6(E)$	16	#5	19'-7"	
$e_7(E)$	8	#5	11'-4"	
$e_8(E)$	16	#5	20'-4"	
$e_9(E)$	8	#5	24'-11"	

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Bridge Rail, Sidewalk Mounted	Foot	473

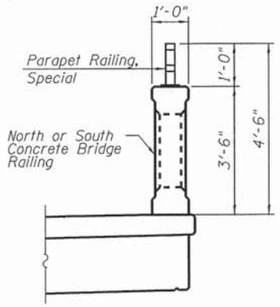
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - BAK	REVISED -
	CHECKED - DF	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - BAK	REVISED -

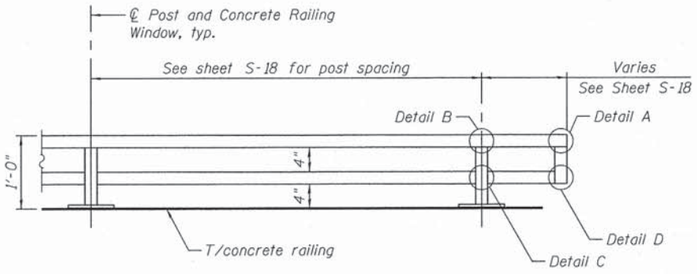
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BRIDGE RAILING DETAILS II
STRUCTURE NO. 022-3045
SHEET NO. S-16 OF S-40 SHEETS

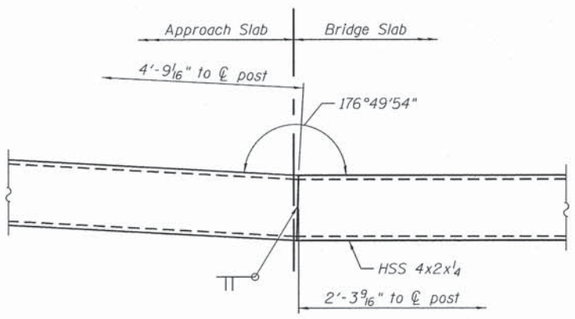
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	64
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			



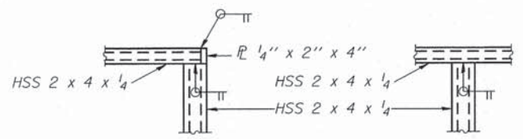
SECTION THRU RAILING



PARAPET RAILING ELEVATION

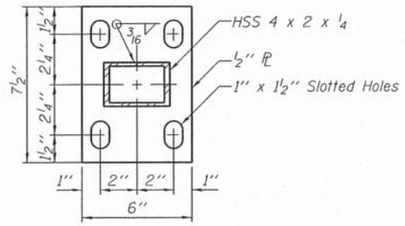


RAILING KINK DETAIL
(At Northwest bridge corner)

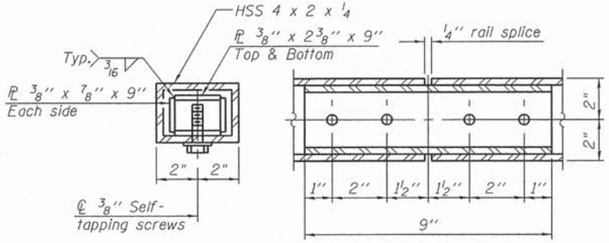


DETAIL A DETAIL B

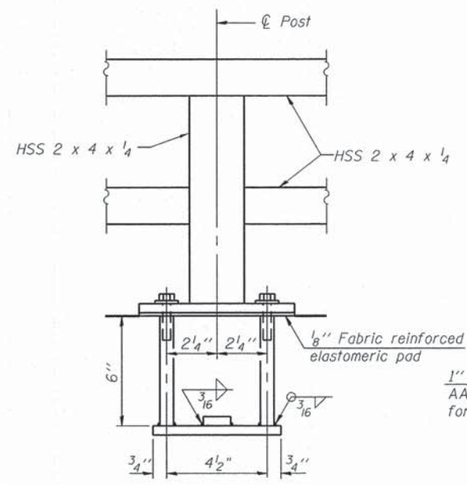
DETAIL C DETAIL D

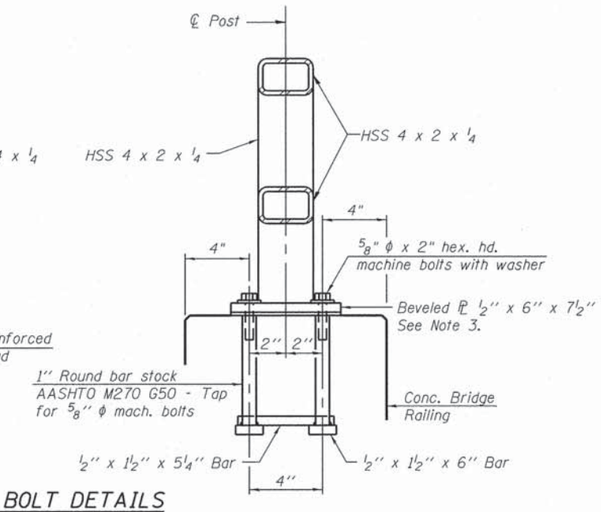


BASE PL



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications, but shall not exceed 6 1/2".

NOTES:

1. *All steel rail elements shall be galvanized and receive a black powder coat finish. See Special Provisions.*
2. *See sheet S-18 for combined concrete and parapet railing elevation.*
3. *Railing posts shall be installed vertical by either beveling the railing base plate or by welding the base plate to the post at the appropriate angle.*

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing, Special	Foot	503

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - BAK	REVISED -
	CHECKED - DF	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - BAK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

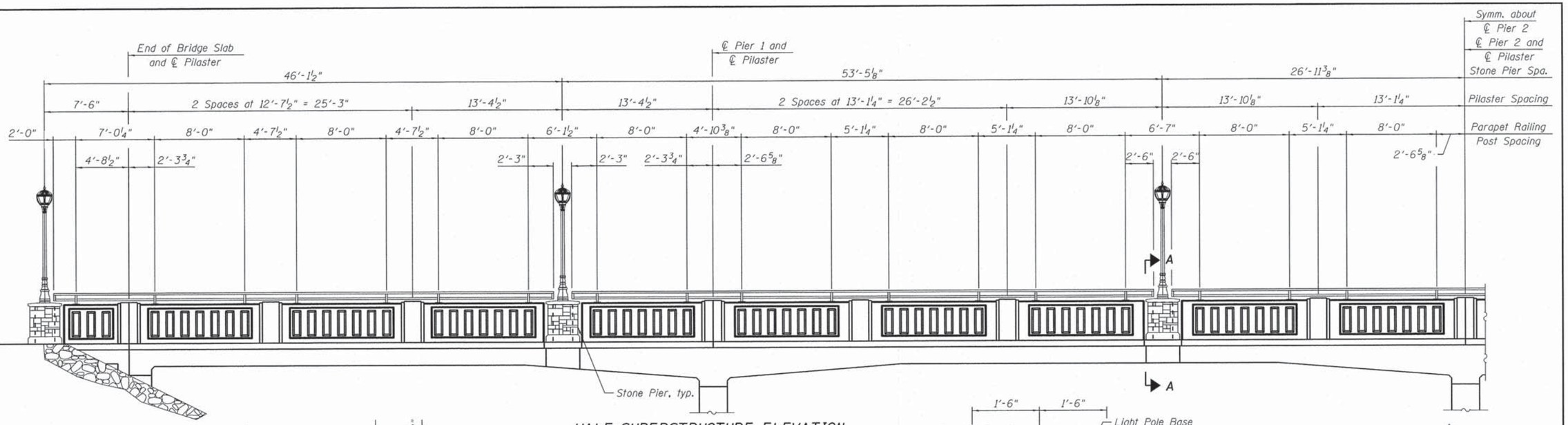
PARAPET RAILING, SPECIAL
STRUCTURE NO. 022-3045
SHEET NO. S-17 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	65
CH 32	WARRENVILLE ROAD	CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

12/21/2014

S:\1216\05_CADD\Cadd Sheets\12223045-R0808-015-BR05.dgn

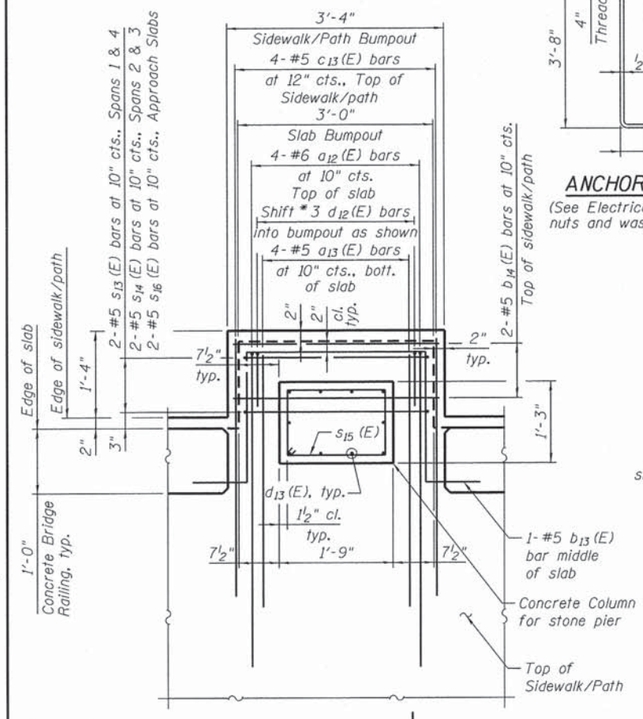
10:20:09 PM



HALF SUPERSTRUCTURE ELEVATION

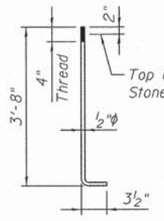
(Looking North)

B



DETAIL 3

(Typical reinf. and lighting hardware not shown for clarity)

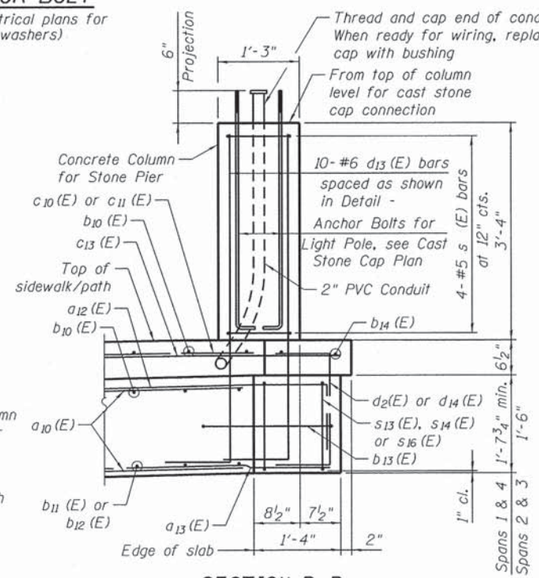


ANCHOR BOLT

(See Electrical plans for nuts and washers)

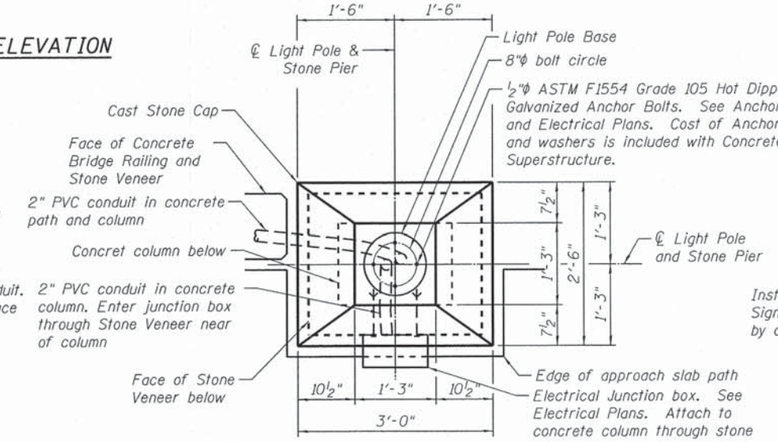
Notes:

1. Form holes in cast stone cap to accomodate lighting conduit and anchor bolt penetrations. Coordinate with electrical installation. Cost included with Stone Pier.
2. Provide vibration isolation pad under pole base and adjust anchor bolt projection as required. Cost included with Concrete Superstructure.



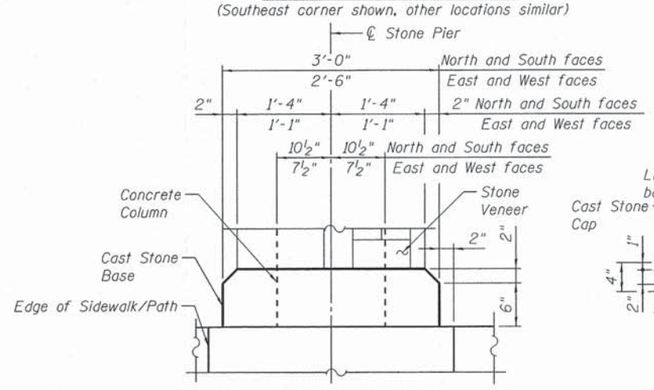
SECTION B-B

(Bridge slab shown, approach slab similar)

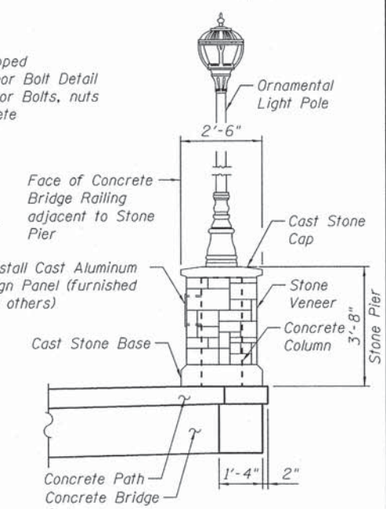


CAST STONE CAP PLAN

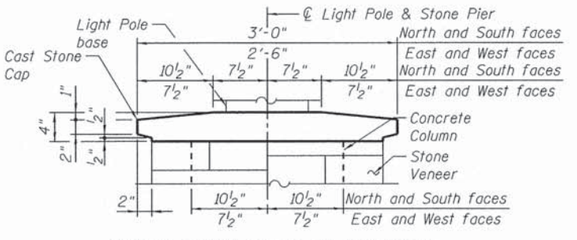
(Southeast corner shown, other locations similar)



CAST STONE BASE ELEVATION



SECTION A-A



CAST STONE CAP ELEVATION

12/21/2014
S:\1218\05_CADD\Cadd Sheets\12223045-02000-020-BR03A.dgn
10:29:49 PM

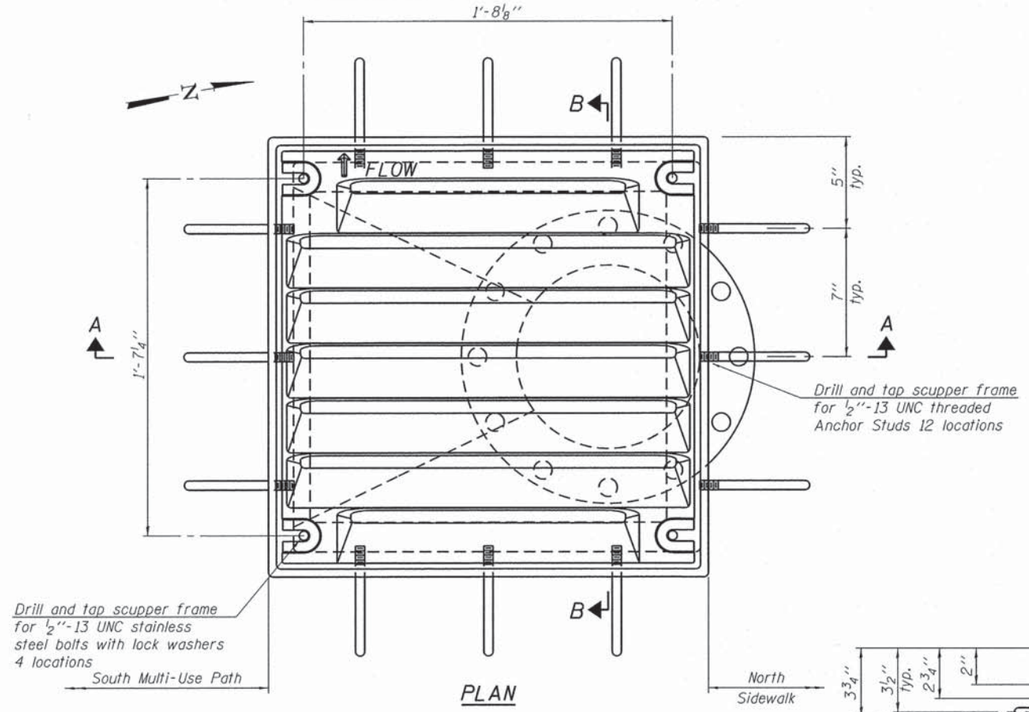
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

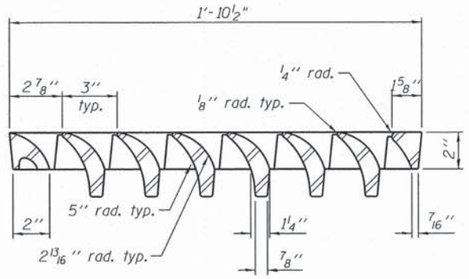
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE AESTHETICS
STRUCTURE NO. 022-3045
SHEET NO. S-18 OF S-40 SHEETS

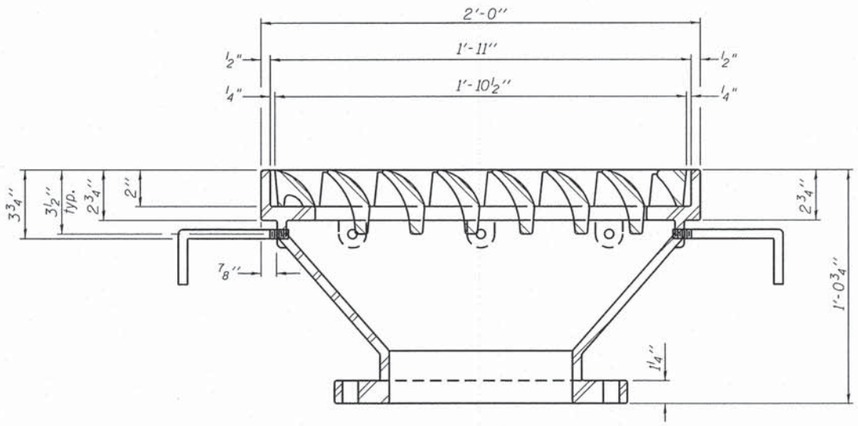
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	66
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				



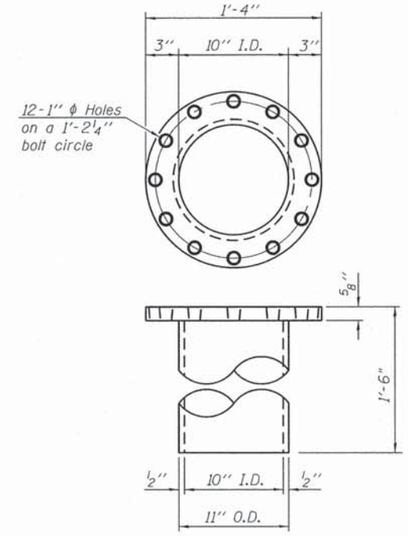
PLAN



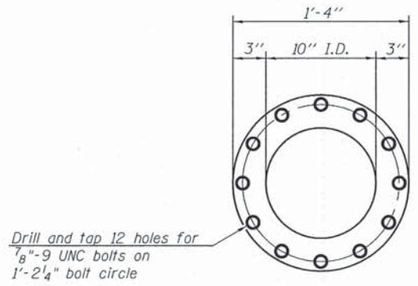
VANE GRATE DETAIL



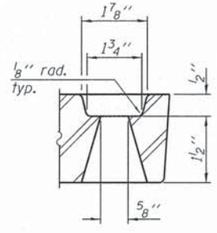
SECTION B-B



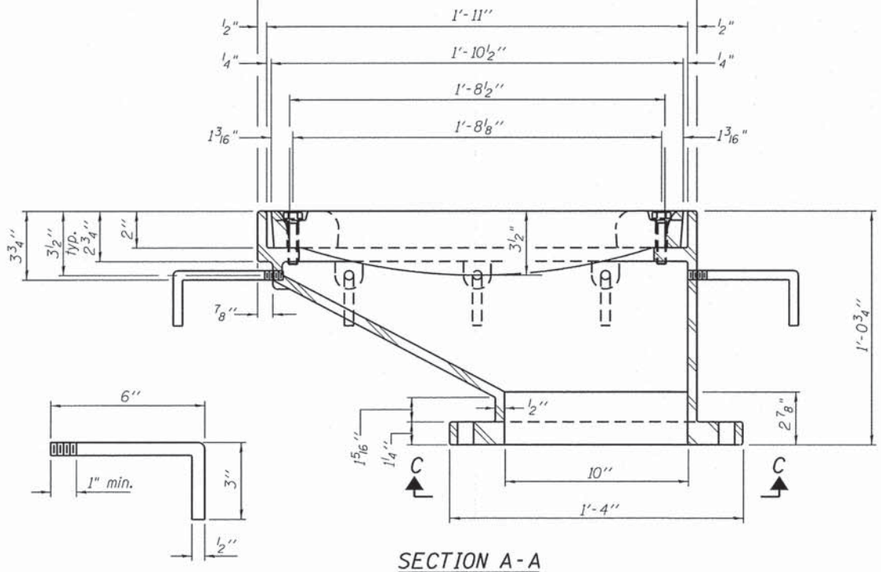
DOWNSPOUT



VIEW C-C



GRATE BOLT HOLE DETAIL



SECTION A-A

ANCHOR STUD DETAIL

Notes:

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

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

All castings shall conform to the requirements of AASHTO M 306.

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

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

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

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

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12M10.

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12M10	Each	2

DS-12M10 7-1-10

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -
		CHECKED - BAK	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

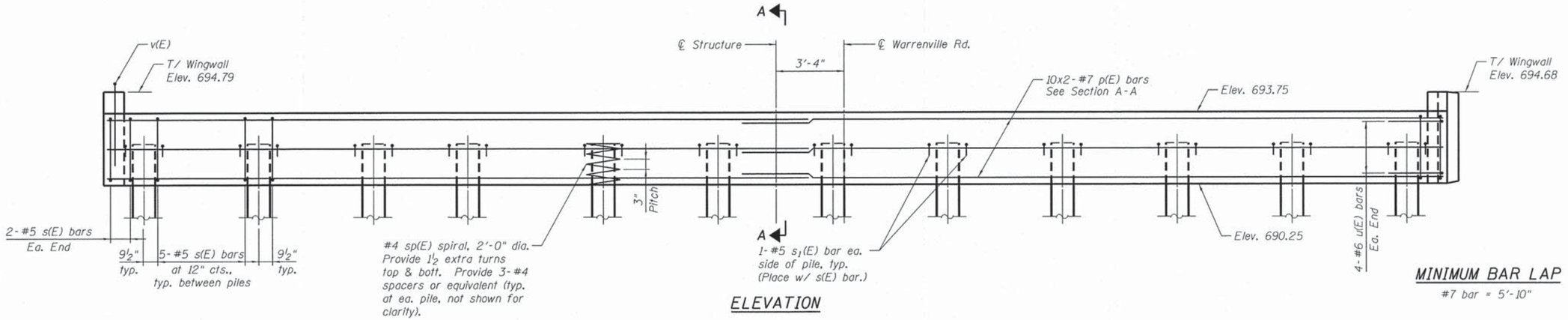
DRAINAGE SCUPPER, DS-12M10
STRUCTURE NO. 022-3045
SHEET NO. S-19 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	67
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

12/21/2014

S:\12151185_CADD\Cadd Sheets\8223945-00000-021-DS.dgn

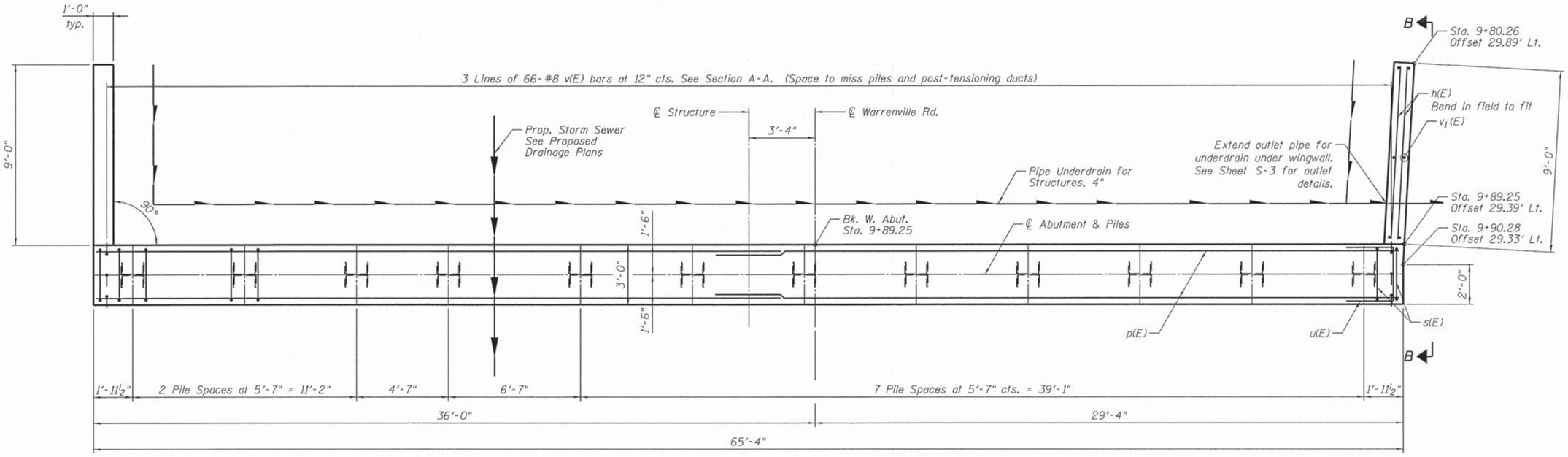
12/8/2014 PM



ELEVATION

MINIMUM BAR LAP

#7 bar = 5'-10"



PLAN

PILE DATA

Type: Steel HP14x73 w/pile shoes
Nominal Required Bearing: 340k
Factored Resistance Available: 175k
Est. Length: 45 ft.
No. Production Piles: 11
No. Test Piles: 1

Notes:

1If the piles are driven from the existing ground elevation, a 24" diameter pile liner (Class D Flexible Pipe) shall be installed around the piles from the bottom of pile cap elevation to the existing ground elevation. If the piles are driven from the bottom of pile cap elevation, they shall be driven through 24" diameter precored holes extending to the existing ground elevation. The remaining space around the piles shall be filled with dry, loose sand. Cost included with Driving Piles.

See Sheet S-22 of S-40 for Section A-A & View B-B.

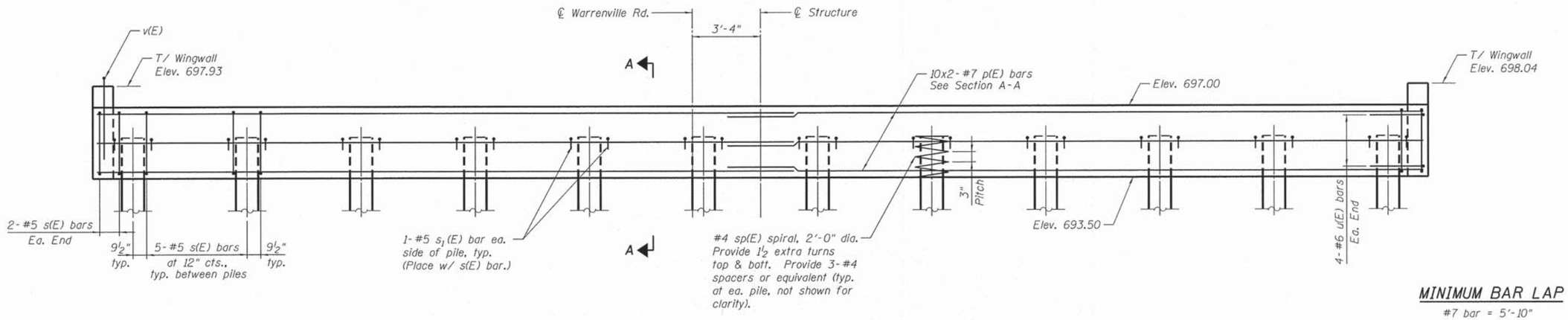
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - JGC	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 022-3045
SHEET NO. S-20 OF S-40 SHEETS

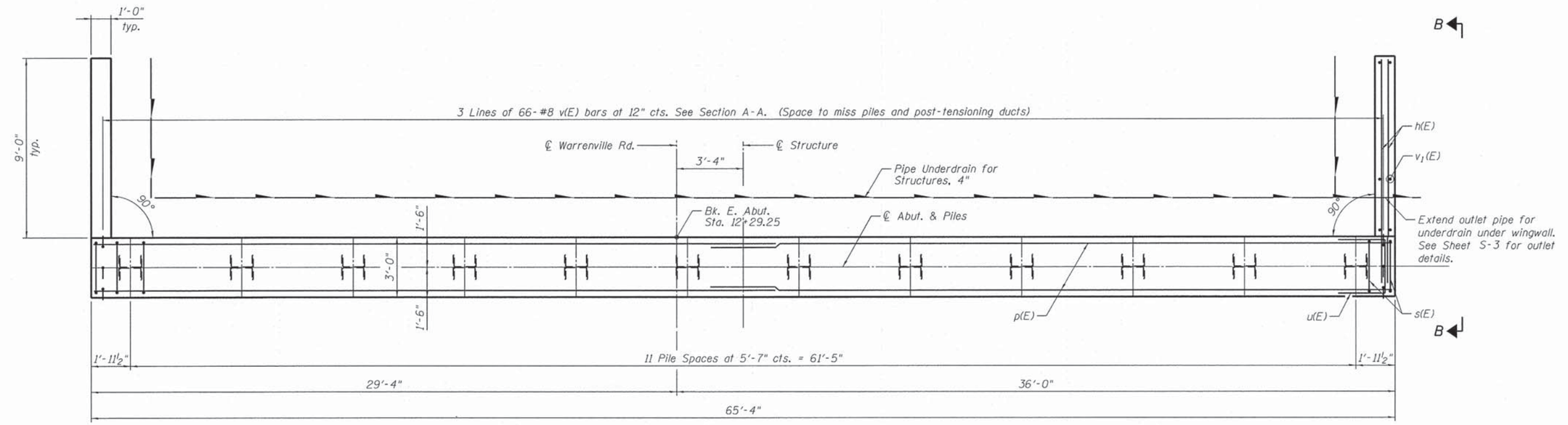
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	68
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



ELEVATION

MINIMUM BAR LAP

#7 bar = 5'-10"



PLAN

PILE DATA

Type: Steel HP14x73 w/pile shoes
Nominal Required Bearing: 325k
Factored Resistance Available: 175k
Est. Length: 51 ft.
No. Production Piles: 11
No. Test Piles: 1

Notes:

See sheet S-22 of S-40 for Section A-A & View B-B.

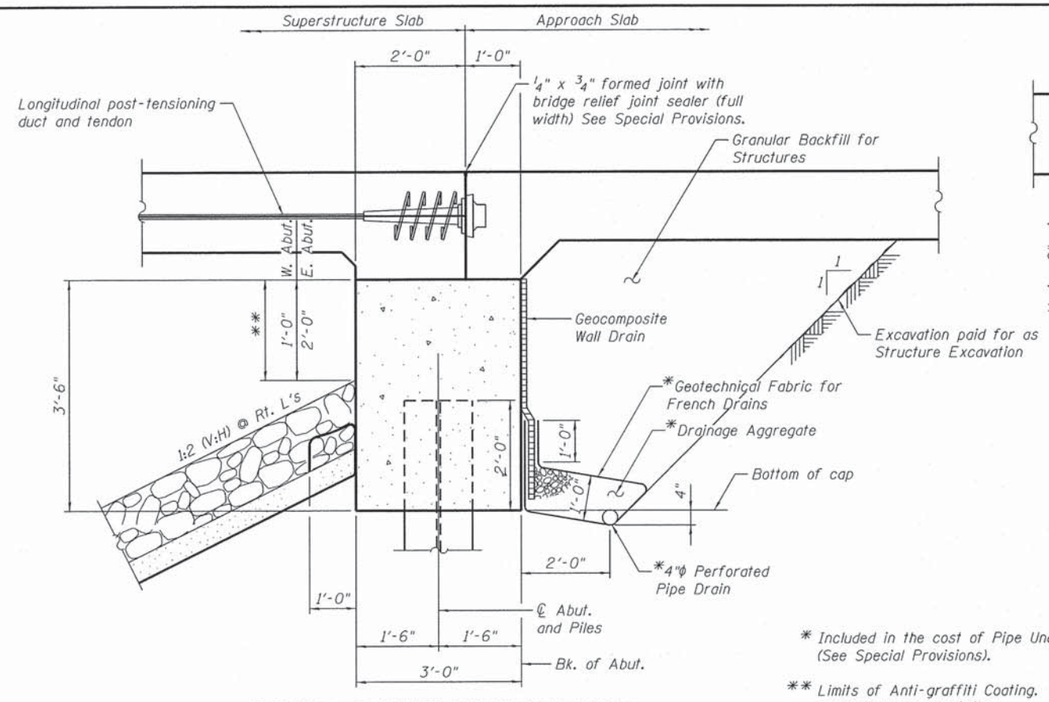
BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - JGC	REVISED -
		CHECKED - BAK	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

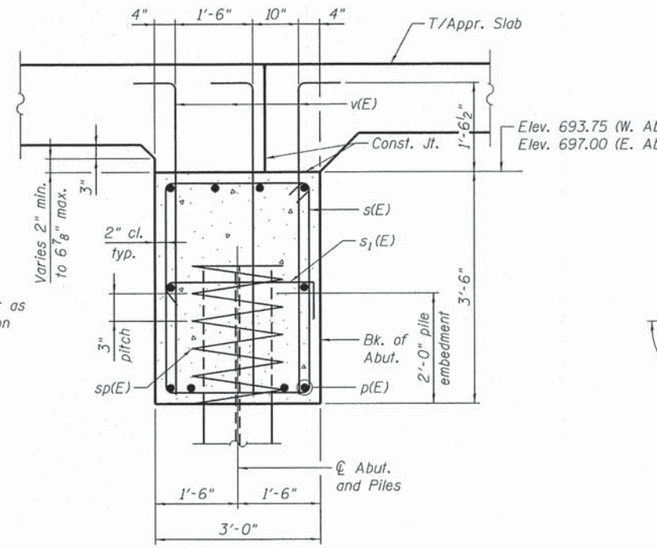
EAST ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 022-3045
SHEET NO. S-21 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	69
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

12/21/2014 10:20:01 PM
S:\216\05.CADD\Cadd Sheets\2223045-B0808-023-EAB.dgn



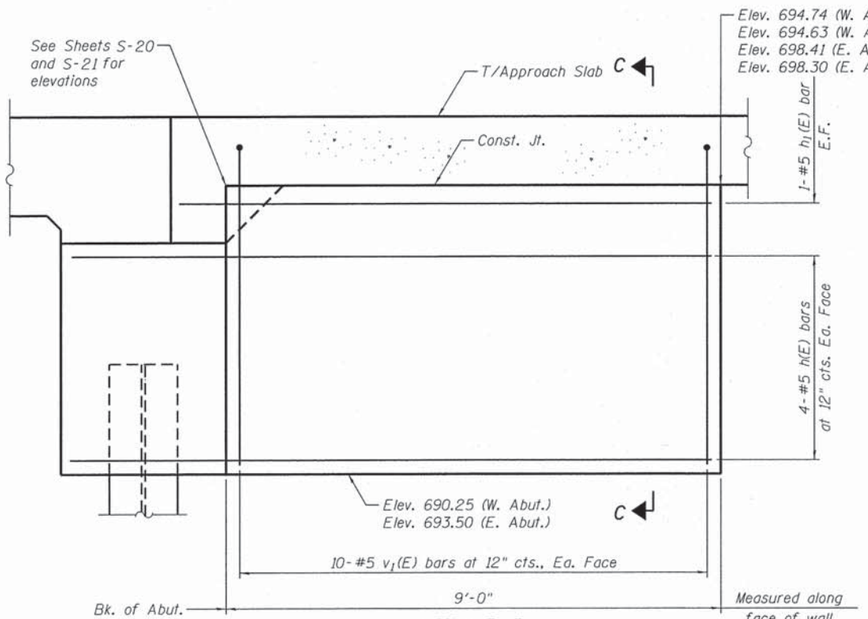
TYPICAL SECTION THRU ABUTMENT



SECTION A-A

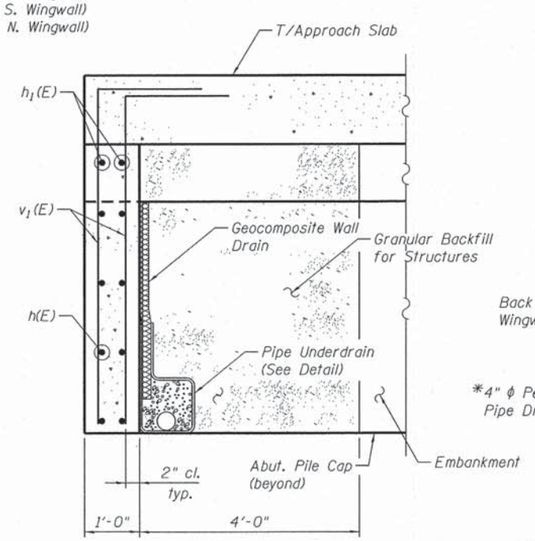
* Included in the cost of Pipe Underdrains for Structures, 4" (See Special Provisions).

** Limits of Anti-graffiti Coating. Limits along wingwalls and ends of abutment similar.



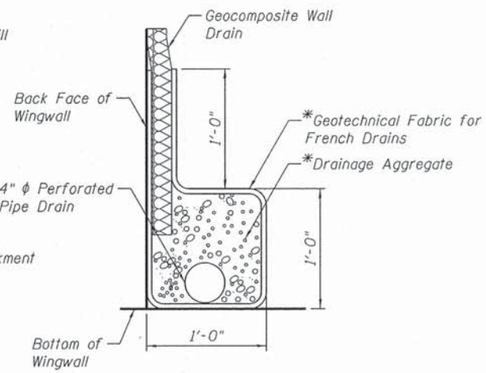
VIEW B-B

(W. Abut. S. Wingwall & E. Abut. N. Wingwall opp. hand)
(Sidewalk and Railings not shown)

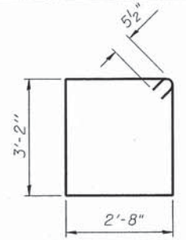


SECTION C-C

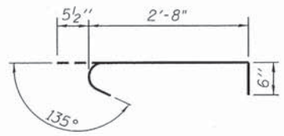
(Sidewalk and Railings not shown)



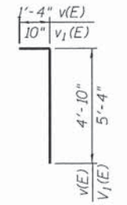
PIPE UNDERDRAIN DETAIL



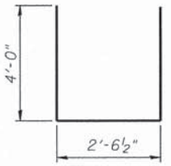
BAR s(E)



BAR s1(E)



BARS v(E) & v1(E)



BAR u(E)

W. ABUT. BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	16	#5	11'-8"	
	h1(E)	4	#5	9'-8"	
	p(E)	20	#7	35'-5"	
	s(E)	59	#5	12'-7"	
	s1(E)	24	#5	3'-8"	
***	sp(E)	12	#4	69'-2"	
	u(E)	8	#6	10'-7"	
	v(E)	198	#8	6'-2"	
	v1(E)	40	#5	6'-2"	
	Structure Excavation			Cu. Yd.	133.4
	Concrete Structures			Cu. Yd.	28.2
	Reinforcement Bars, Epoxy Coated			Pound	6,750
	Furnishing Steel HP14x73 Piles			Foot	495
	Driving Piles			Foot	495
	Test Pile, HP14x73			Each	1
	Pile Shoes			Each	12
	Anti-Graffiti Coating			Sq. Ft.	110

E. ABUT. BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	16	#5	11'-8"	
	h1(E)	4	#5	9'-8"	
	p(E)	20	#7	35'-5"	
	s(E)	59	#5	12'-7"	
	s1(E)	24	#5	3'-8"	
***	sp(E)	12	#4	69'-2"	
	u(E)	8	#6	10'-7"	
	v(E)	198	#8	6'-2"	
	v1(E)	40	#5	6'-2"	
	Structure Excavation			Cu. Yd.	110.4
	Concrete Structures			Cu. Yd.	28.1
	Reinforcement Bars, Epoxy Coated			Pound	6,750
	Furnishing Steel HP14x73 Piles			Foot	561
	Driving Piles			Foot	561
	Test Pile, HP14x73			Each	1
	Pile Shoes			Each	12
	Anti-Graffiti Coating			Sq. Ft.	180

*** Height of spiral is 2'-0"; uncoiled length is shown in Bill of Material.

NOTES:

For details of piles, see sheet S-26 of S-40.

The wingwalls shall be poured after the superstructure post-tensioning is complete.

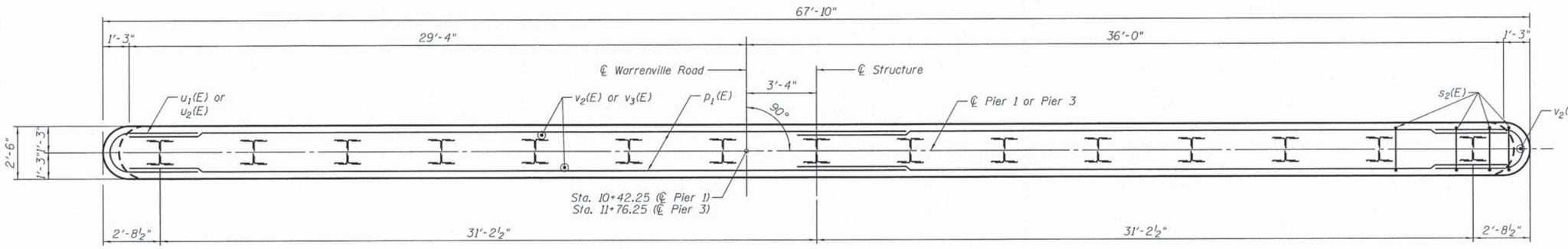
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - JGC	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 022-3045
SHEET NO. S-22 OF S-40 SHEETS

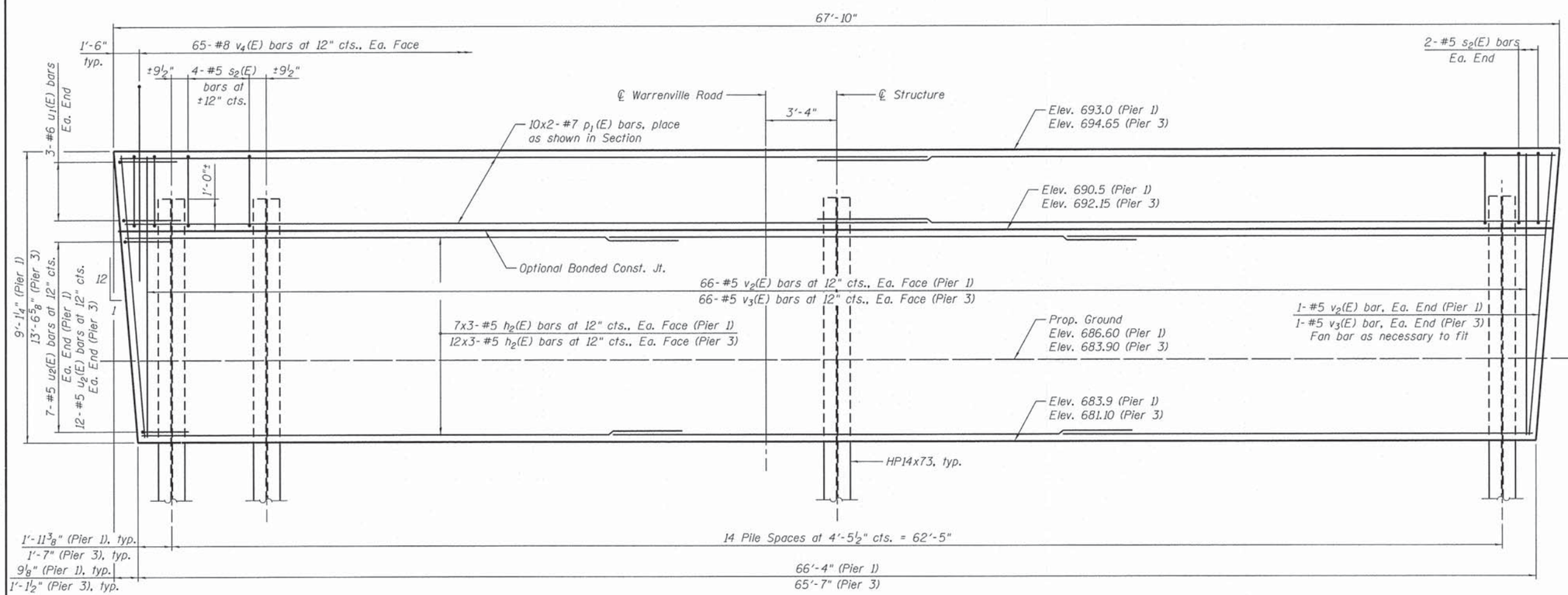
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	70
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				



TOP PLAN

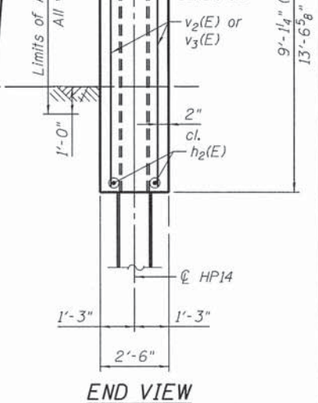
MIN. BAR LAP

#5 bar = 3'-3"
#6 bar = 3'-10"
#7 bar = 5'-2"

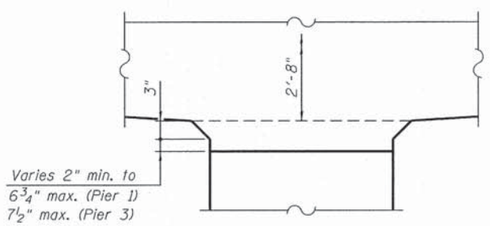


ELEVATION

(Looking East)



END VIEW



SECTION THRU SLAB AT PIER

NOTES:

For pile details, see sheet S-26 of S-40.

Bars indicated thus 7x2-#8 etc., indicates 7 lines of bars with 2 lenghts per line.

See sheet S-25 of S-40 for Bill of Material & bar bending details.

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

PILE DATA - PIER 1

Type: Steel-HP 14x73 with pile shoes
Nominal Required Bearing: 525
Factored Resistance Available: 275
Est. Length: 70'
No. Production Piles: 14
No. Test Piles: 1

PILE DATA - PIER 3

Type: Steel-HP 14x73 with pile shoes
Nominal Required Bearing: 525
Factored Resistance Available: 275
Est. Length: 60'
No. Production Piles: 14
No. Test Piles: 1

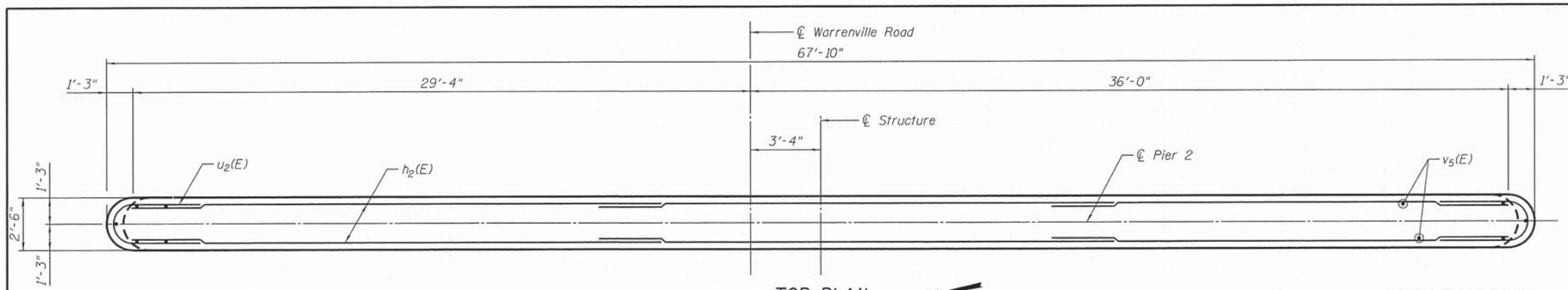
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

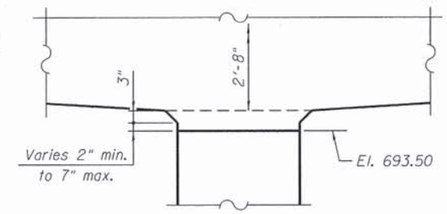
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 & PIER 3 PLAN AND ELEVATION
STRUCTURE NO. 022-3045
SHEET NO. S-23 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	71
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				



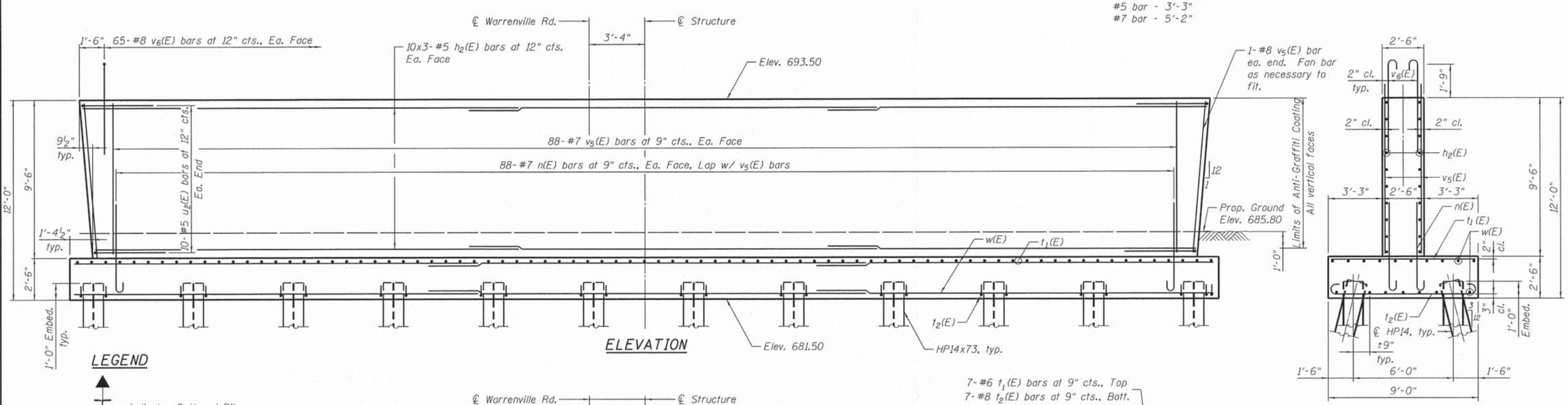
TOP PLAN



SECTION THRU SLAB AT PIER

MIN BAR LAP

#5 bar - 3'-3"
#7 bar - 5'-2"

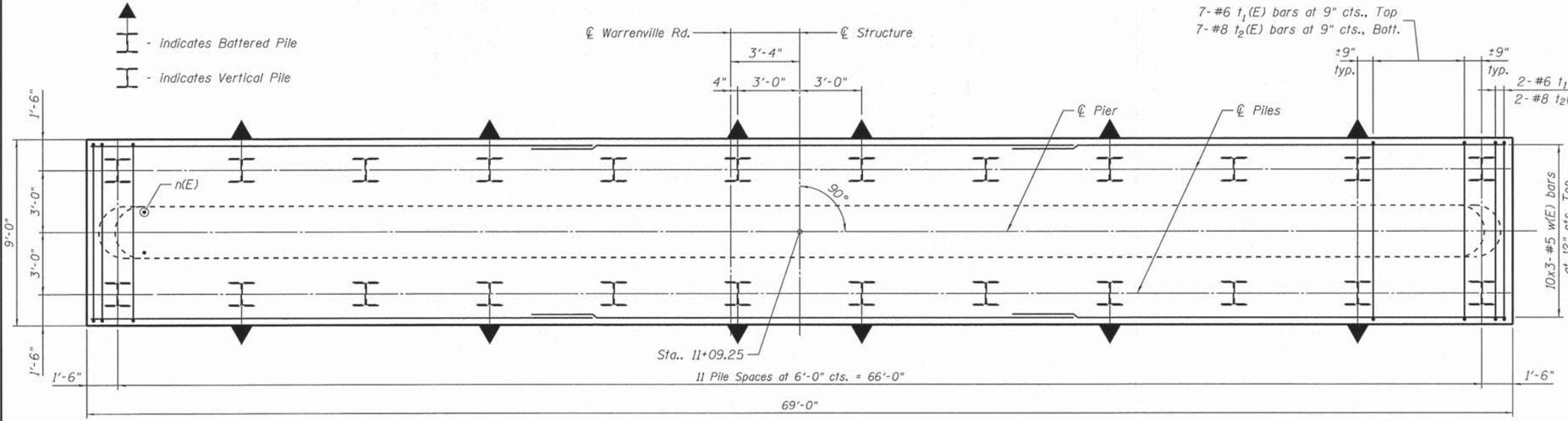


ELEVATION

END VIEW

LEGEND

- indicates Battered Pile
- indicates Vertical Pile



FOOTING PLAN

PILE DATA

Type: Steel HP14x73
Nominal Required Bearing: 500
Factored Resistance Available: 275
Est. Length: 52'
No. Production Piles: 23
No. Test Piles: 1

NOTES:

For pile details, see sheet S-26 of S-40.

Bars indicated thus 11x3-#8 etc., indicates 11 lines of bars with 3 lenghts per line.

See sheet S-25 of S-40 for Bill of Material & bar bending details.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 PLAN AND ELEVATION
STRUCTURE NO. 022-3045
SHEET NO. S-24 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	72
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

10:01:14 PM
12/21/2014
S:\1216\05_CADD\Cadd Sheets\12220345-00000-026-F002.dgn

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_2(E)$	42	#5	24'-7"	
$p_1(E)$	20	#7	35'-4"	
$s_2(E)$	60	#5	9'-7"	
$u_1(E)$	6	#6	11'-3"	
$u_2(E)$	14	#5	10'-3"	
$v_2(E)$	134	#5	8'-7"	
$v_4(E)$	130	#8	5'-11"	

Structure Excavation	Cu. Yd.	36.4
Concrete Structures	Cu. Yd.	54.9
Reinforcement Bars, Epoxy Coated	Pound	6,630
Furnishing Steel Piles HP14x73	Foot	980
Driving Piles	Foot	980
Test Pile Steel HP14x73	Each	1
Pile Shoes	Each	15
Anti-Graffiti Coating	Sq. Ft.	1,110

PIER 2
BILL OF MATERIAL

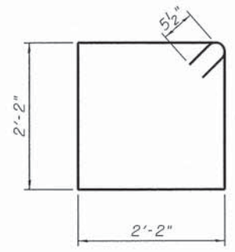
Bar	No.	Size	Length	Shape
$h_2(E)$	60	#5	24'-7"	
$n(E)$	176	#7	8'-3"	
$t_1(E)$	81	#6	8'-8"	
$t_2(E)$	81	#8	10'-6"	
$u_2(E)$	20	#5	10'-3"	
$v_5(E)$	178	#7	9'-3"	
$v_6(E)$	130	#8	5'-11"	
$w(E)$	51	#5	25'-1"	

Structure Excavation	Cu. Yd.	151.2
Concrete Structures	Cu. Yd.	114.8
Reinforcement Bars, Epoxy Coated	Pound	14,800
Furnishing Steel Piles HP14x73	Foot	1,196
Driving Piles	Foot	1,196
Test Pile Steel HP14x73	Foot	1
Pile Shoes	Each	24
Anti-Graffiti Coating	Sq. Ft.	1,330

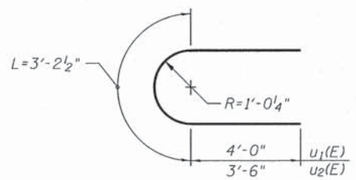
PIER 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_2(E)$	72	#5	24'-7"	
$p_1(E)$	20	#7	35'-4"	
$s_2(E)$	60	#5	9'-7"	
$u_1(E)$	6	#6	11'-3"	
$u_2(E)$	24	#5	10'-3"	
$v_3(E)$	134	#5	13'-0"	
$v_4(E)$	130	#8	5'-11"	

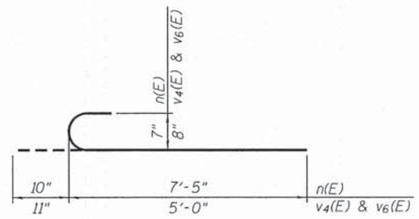
Structure Excavation	Cu. Yd.	48.5
Concrete Structures	Cu. Yd.	81.2
Reinforcement Bars, Epoxy Coated	Pound	8,120
Furnishing Steel Piles HP14x73	Foot	840
Driving Piles	Foot	840
Test Steel Pile HP14x73	Each	1
Pile Shoes	Each	15
Anti-Graffiti Coating	Sq. Ft.	1,730



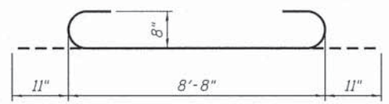
BARS $s_2(E)$



BAR $u_1(E)$ & $u_2(E)$



BAR $n(E)$, $v_4(E)$ & $v_6(E)$



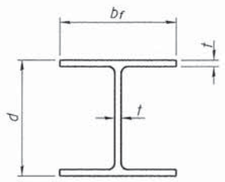
BAR $t_2(E)$

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - BAK	REVISED -	
	PLOT SCALE =	DRAWN - MTR	REVISED -	
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -	

PIER DETAILS
STRUCTURE NO. 022-3045
SHEET NO. S-25 OF S-40 SHEETS

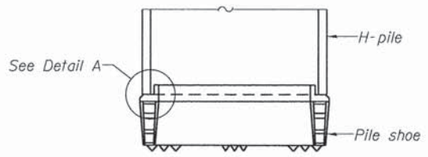
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	73
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

10:09:15 PM
12/21/2014
S:\2161\05_CADD\Cadd Sheets\022345-00000-027-P003.dgn

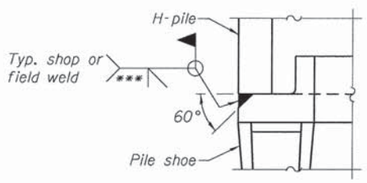


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	$14\frac{1}{4}''$	$14\frac{7}{8}''$	$\frac{13}{16}''$	30''
x102	14''	$14\frac{3}{4}''$	$\frac{11}{16}''$	30''
x89	$13\frac{7}{8}''$	$14\frac{3}{4}''$	$\frac{5}{8}''$	30''
x73	$13\frac{5}{8}''$	$14\frac{5}{8}''$	$\frac{1}{2}''$	30''
HP 12x84	$12\frac{1}{4}''$	$12\frac{1}{4}''$	$\frac{11}{16}''$	24''
x74	$12\frac{1}{8}''$	$12\frac{1}{4}''$	$\frac{5}{8}''$	24''
x63	12''	$12\frac{1}{8}''$	$\frac{1}{2}''$	24''
x53	$11\frac{3}{4}''$	12''	$\frac{7}{16}''$	24''
HP 10x57	10''	$10\frac{1}{4}''$	$\frac{9}{16}''$	24''
x42	$9\frac{3}{4}''$	$10\frac{1}{8}''$	$\frac{7}{16}''$	24''
HP 8x36	8''	$8\frac{1}{8}''$	$\frac{7}{16}''$	18''

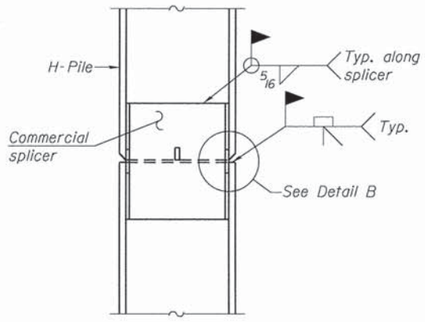


ELEVATION

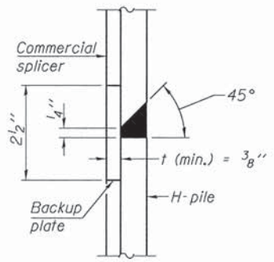


DETAIL A

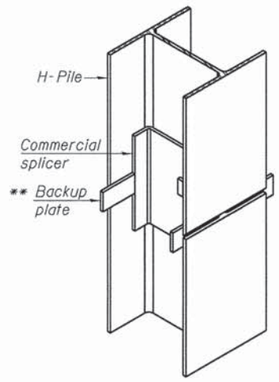
H-PILE SHOE ATTACHMENT



ELEVATION

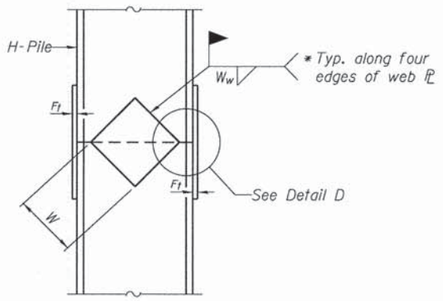


DETAIL "B"

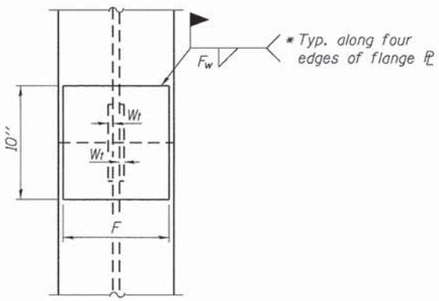


ISOMETRIC VIEW

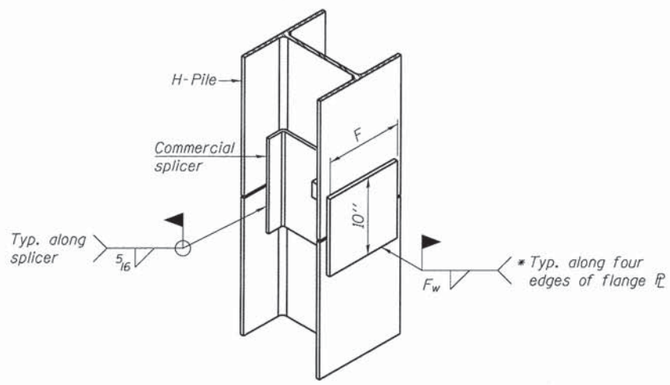
WELDED COMMERCIAL SPLICE



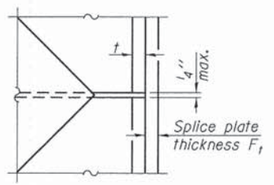
ELEVATION



END VIEW



ISOMETRIC VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	$12\frac{1}{2}''$	1''	$\frac{7}{8}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x102	$12\frac{1}{2}''$	$\frac{7}{8}''$	$\frac{3}{4}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x89	$12\frac{1}{2}''$	$\frac{3}{4}''$	$\frac{11}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x73	$12\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{9}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
HP 12x84	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x74	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x63	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x53	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 10x57	8''	$\frac{3}{4}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x42	8''	$\frac{5}{8}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 8x36	7''	$\frac{5}{8}''$	$\frac{7}{16}''$	$4\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$

WELDED PLATE FIELD SPLICE

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼'' from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer ($\frac{5}{16}''$ min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -
		CHECKED - BAK	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 022-3045
SHEET NO. S-26 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	74
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

8:18:01 PM

10/28/2014

S:\1216\05_CADD\Cadd Sheets\12223045-000000-828-HP.dgn

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-01

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.57 ft
North: 1876167.55 ft
East: 1028309.51 ft
Station: 9+65.00
Offset: 22.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	694.4	2-inch thick ASPHALT --PAVEMENT						
	693.1	16-inch thick CONCRETE --PAVEMENT--						
		Dense to very dense, brown SANDY GRAVEL --FILL--			1	12 13 45	NP	6
			5		2	38 21 14	NP	7
	688.3	Medium dense, brown gravelly SILTY LOAM to SILTY CLAY LOAM			3	9 7 22	NP	21
			10		4	5 8 9	NP	26
	684.1	Medium dense, gray GRAVELLY SAND			5	5 7 13	NP	11
	681.6	Very stiff, gray SILTY CLAY LOAM, little gravel	15		6	3 5 5	3.12 B	10
	679.1	Loose, gray SILTY LOAM			7	3 3 6	NP	15
	676.6	Gray, coarse SAND						
	675.6	Loose to medium dense, gray SILTY LOAM	20		8	3 5 5	NP	15
		--%Gravel = 0.0-- --%Sand = 15.6-- --%Silt = 77.0-- --%Clay = 7.4-- --A-4 (0)--			9	3 2 2	NP	17
			25		10	4 7 9	NP	15
	669.1	Very stiff, gray SILTY CLAY LOAM, little gravel			11	23 10 9	2.79 B	13
	665.8	Dense, brown SILTY LOAM	30		12	13 17 15	2.46 B	12
	662.6	Very stiff to hard, gray SILTY CLAY LOAM, little gravel			13	19 9 12	3.20 B	12
			40		14	5 8 14	4.43 B	15

GENERAL NOTES

Begin Drilling: 09-11-2012 Complete Drilling: 09-13-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 15.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-01

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.57 ft
North: 1876167.55 ft
East: 1028309.51 ft
Station: 9+65.00
Offset: 22.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	647.6	Dense to very dense, gray SANDY GRAVEL	45		15	7 11 19	2.00 P	14
		--BOULDER at 50.5'--	50		16	19 22 50/3"	NP	7
			55	C O R E	1			
			60		17	50/4	NP	
					18	12 15 19	NP	
	627.1	Strong, poor quality, light gray, slightly cherty, horizontally bedded, <2 in. to 1 ft. thk. beds, slightly vertically fractured DOLOSTONE; with dark gray and greenish gray, thin, shale partings --RECOVERY = 100%-- --RQD = 47%--	65		19	7 32 38	NP	9
			70	C O R E	20			
		--RECOVERY = 100%-- --RQD = 49%--	75		21			
			80					

GENERAL NOTES

Begin Drilling: 09-11-2012 Complete Drilling: 09-13-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 15.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I
STRUCTURE NO. 022-3045
SHEET NO. S-27 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	75
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

BORING LOG B-01

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.57 ft
North: 1876167.55 ft
East: 1028309.51 ft
Station: 9+65.00
Offset: 22.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	611.1							
		Boring terminated at 83.50 ft						
			85					
			90					
			95					
			100					

GENERAL NOTES

Begin Drilling 09-11-2012 Complete Drilling 09-13-2012
Drilling Contractor WTS Drill Rig D-50 TMR
Driller R&K Logger A. Happel Checked by C. Marin
Drilling Method 3.25-inch IDA HSA, 140lb Auto Hammer, boring backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling ▽ 15.50 ft
At Completion of Drilling ▼ MUD
Time After Drilling NA
Depth to Water ▽ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 3141101.GPJ WANGENG.GDT 11/20/12

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - BAK	REVISED -	
	PLOT SCALE =	DRAWN - MTR	REVISED -	
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -	

SOIL BORING LOGS IA
STRUCTURE NO. 022-3045
SHEET NO. S-28 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	76
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\05_CADD\Cadd Sheets\0223045-00000-024A-SB01A.dgn 10/20/2014 8:10:15 PM

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-01

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.57 ft
North: 1876167.55 ft
East: 1028309.51 ft
Station: 9+65.00
Offset: 22.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	694.4	2-inch thick ASPHALT --PAVEMENT						
	693.1	16-inch thick CONCRETE --PAVEMENT--						
		Dense to very dense, brown SANDY GRAVEL --FILL--			1	12 13 45	NP	6
			5		2	38 21 14	NP	7
	688.3	Medium dense, brown gravelly SILTY LOAM to SILTY CLAY LOAM			3	9 7 22	NP	21
			10		4	5 8 9	NP	26
	684.1	Medium dense, gray GRAVELLY SAND			5	5 7 13	NP	11
	681.6	Very stiff, gray SILTY CLAY LOAM, little gravel			6	3 5 5	3.12 B	10
	679.1	Loose, gray SILTY LOAM	15		7	3 3 6	NP	15
	676.6	Gray, coarse SAND						
	675.6	Loose to medium dense, gray SILTY LOAM	20		8	3 5 5	NP	15
		--%Gravel = 0.0-- --%Sand = 15.6-- --%Silt = 77.0-- --%Clay = 7.4-- --A-4 (0)--	25		9	3 2 2	NP	17
					10	4 7 9	NP	15
	669.1	Very stiff, gray SILTY CLAY LOAM, little gravel			11	23 10 9	2.79 B	13
	665.8	Dense, brown SILTY LOAM	30		12	13 17 15	2.46 B	12
	662.6	Very stiff to hard, gray SILTY CLAY LOAM, little gravel	35		13	19 9 12	3.20 B	12
			40		14	5 8 14	4.43 B	15

GENERAL NOTES

Begin Drilling: 09-11-2012 Complete Drilling: 09-13-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 15.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-01

WEI Job No.: 314-11-01
Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL
Datum: NGVD
Elevation: 694.57 ft
North: 1876167.55 ft
East: 1028309.51 ft
Station: 9+65.00
Offset: 22.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	647.6	Dense to very dense, gray SANDY GRAVEL	45		15	7 11 19	2.00 P	14
		--BOULDER at 50.5'--	50		16	19 22 50/3"	NP	7
			55		17	50/4	NP	
			60		18	12 15 19	NP	
	627.1	Strong, poor quality, light gray, slightly cherty, horizontally bedded, <2 in. to 1 ft. thk. beds, slightly vertically fractured DOLOSTONE; with dark gray and greenish gray, thin, shale partings --RECOVERY = 100%-- --RQD = 47%--	65		19	7 32 38	NP	9
		--RECOVERY = 100%-- --RQD = 49%--	70		20	CORE		
			75		21	CORE		
			80					

GENERAL NOTES

Begin Drilling: 09-11-2012 Complete Drilling: 09-13-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 15.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-03

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.38 ft
North: 1876121.76 ft
East: 1028448.11 ft
Station: 11+09.25
Offset: 24.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	694.2	2-inch thick ASPHALT --PAVEMENT--						
	693.0	15-inch thick CONCRETE --PAVEMENT--						
	692.6	4-inch thick CRUSHED STONE --BASE COURSE--			1	8 11 6	NP	4
	690.6	Medium dense, brown SANDY LOAM, little gravel --FILL--			2	4 3 2	0.75 P	26
	687.6	Medium stiff, brown and black SILTY CLAY LOAM, trace gravel --FILL--	5		3	4 5 7	0.75 P	31
		Medium dense, brown and black SANDY LOAM, trace gravel --FILL--	10		4	10 8 14	NP	7
	683.9	Medium dense, gray SILTY LOAM, little gravel			5	3 9 7	NP	11
	681.4	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel	15		6	3 3 5	2.00 P	14
					7	3 8 10	4.67 B	11
	676.4	Medium dense to dense, gray SILTY LOAM, trace gravel	20		8	4 17 17	NP	9
	670.4	Hard, gray SILTY CLAY LOAM, trace gravel	25		9	10 13 13	NP	9
					10	9 13 19	6.72 B	10
	668.9	Medium dense to dense, brown, medium SAND			11	11 10 2	NP	19
			30		12	10 15 23	NP	20
	660.4	Dense to very dense, gray GRAVELLY SAND	35		13	45 50/5	NP	18
			40		14	12 16 24	NR	

GENERAL NOTES

Begin Drilling: 09-11-2012 Complete Drilling: 09-11-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 26.00 ft
At Completion of Drilling: 10.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-03

WEI Job No.: 314-11-01
Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL
Datum: NGVD
Elevation: 694.38 ft
North: 1876121.76 ft
East: 1028448.11 ft
Station: 11+09.25
Offset: 24.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	653.4	Hard, gray SILTY CLAY LOAM, trace gravel						
			45		15	9 14 21	5.90 B	14
	642.4	Dense, gray GRAVELLY SAND	50		16	14 11 19	4.92 B	20
			55		17	9 15 22	NP	9
	637.4	Dense, brown SANDY LOAM, little gravel	60		18	49 50/4	NP	9
	627.4	Very dense, gray and white GRAVELLY SAND, with weathered dolostone fragments --WEATHERED BEDROCK--	65		19	42 50/4	NP	12
			70		20	50/4	NP	10
	623.4	Strong, very poor to fair quality, light gray, slightly cherty, <2 in. to 1 ft. thk. beds, horizontally bedded DOLOSTONE, with dark gray and greenish gray, thin, shale partings --RECOVERY = 100%-- --RQD = 63%--	75	CORE	21			
		--RECOVERY = 30%-- --RQD = 0%--		CORE	22			
	617.4	Boring terminated at 77.00 ft	80					

GENERAL NOTES

Begin Drilling: 09-11-2012 Complete Drilling: 09-11-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 26.00 ft
At Completion of Drilling: 10.00 ft
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - BAK	REVISED -	
	PLOT SCALE =	DRAWN - MTR	REVISED -	
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -	

SOIL BORING LOGS III
STRUCTURE NO. 022-3045
SHEET NO. S-30 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	78
CH 32	WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-04

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.93 ft
North: 1876055.13 ft
East: 1028493.80 ft
Station: 11+73.00
Offset: 24.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	694.6	4-inch thick ASPHALT						
	694.2	--PAVEMENT--						
		5-inch thick, CONCRETE						
		--PAVEMENT--						
		Medium stiff, dark brown, CLAY LOAM			1	1 1 1	0.50 P	29
	691.9	--FILL--						
		Very stiff, brown CLAY	5		2	1 2 3	2.46 B	27
	689.4	Dense, brown GRAVELLY SAND			3	7 12 21	NP	7
			10		4	6 5 7	NP	16
	684.4	Medium dense, gray SILTY LOAM			5	3 4 5	NP	18
	681.9	Very stiff, gray GRAVELLY LOAM			6	3 5 6	2.21 B	10
		--L_L(%) = 20, P_L(%) = 12--	15					
		--%Gravel = 20.9--						
		--%Sand = 28.9--						
	679.4	--%Silt = 38.6--						
		--%Clay = 11.6--						
		--A-4 (1)--						
		Medium dense, gray SANDY LOAM			7	9 12 11	NP	11
	676.9	Hard, gray SILTY CLAY LOAM						
			20		8	8 10 10	> 4.50 P	9
	669.4	Dense, gray SILTY LOAM	25		9	7 8 11	4.51 B	10
					10	10 12 18	5.74 S	8
	666.9	Hard gray SILTY CLAY LOAM			11	15 16 14	NP	10
			30		12	9 12 14	8.61 B	9
	663.2	Medium dense, gray fine to medium SAND to SANDY LOAM						
			35		13	5 8 12	NP	24
			40		14	17 30 30	NP	9

GENERAL NOTES

Begin Drilling: 09-17-2012 Complete Drilling: 09-17-2012
Drilling Contractor: WTS Drill Rig: B-57 TMR
Driller: R&J Logger: F. Bozga Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 32.00 ft
At Completion of Drilling: 45.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-04

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 694.93 ft
North: 1876055.13 ft
East: 1028493.80 ft
Station: 11+73.00
Offset: 24.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING--						
	652.9	Very stiff, gray SILTY CLAY LOAM						
			45		15	6 8 11	3.69 B	15
			50		16	9 15 16	5.66 B	15
	642.9	Gray SILT						
	640.9	Medium dense to very dense, brown GRAVELLY SAND	55		17	4 15 11	NP	14
			60		18	34 50/4"	NP	9
	627.9	Very dense, gray GRAVELLY SAND with weathered bedrock fragments	65		19	50/5"	NP	10
		--WEATHERED BEDROCK--			20	40 50/4"	NP	10
	624.9	Strong, poor to fair quality, light gray, slightly cherty, <2 in. to 1 ft. thk. beds, horizontally bedded DOLOSTONE, with dark gray and greenish gray, thin, shale partings	70					CORE
		--RECOVERY = 100%--			21			
		--RQD = 72%--	75					
		--RECOVERY=100%--			22			CORE
		--RQD=41%--						
	614.9	Boring terminated at 80.00 ft	80					

GENERAL NOTES

Begin Drilling: 09-17-2012 Complete Drilling: 09-17-2012
Drilling Contractor: WTS Drill Rig: B-57 TMR
Driller: R&J Logger: F. Bozga Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring
backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 32.00 ft
At Completion of Drilling: 45.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS IV
STRUCTURE NO. 022-3045
SHEET NO. S-31 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	79
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-05

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 696.26 ft
North: 1876087.80 ft
East: 1028559.86 ft
Station: 12+25.00
Offset: 27.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	696.0	3-inch thick ASPHALT --PAVEMENT--						
	695.2	10-inch thick CONCRETE --PAVEMENT--						
	694.3	11-inch thick CRUSHED STONE --BASE COURSE--						
		Stiff, brown SILTY CLAY LOAM --FILL--			1	6 3 4	NR	
			5		2	2 3 8	1.50 P	27
	690.8	Medium dense, brown SILTY LOAM, some gravel --FILL--			3	9 5 9	NP	12
			10		4	7 8 11	NP	11
	685.8	Very stiff to hard, gray SILTY CLAY, trace gravel			5	3 6 8	3.69 B	16
		--L_L(%) = 33, P_L(%) = 16-- --%Gravel = 4.2-- --%Sand = 12.4-- --%Silt = 48.9-- --%Clay = 34.6-- --A-6 (13)--	15		6	3 4 7	4.43 B	18
					7	5 7 9	3.53 B	15
	678.3	Medium dense, gray SILTY LOAM, trace gravel	20		8	6 13 12	NP	9
	675.8	Stiff, gray SILTY CLAY LOAM, trace gravel			9	4 6 7	1.72 B	12
	673.3	Dense, gray SILTY LOAM, trace gravel	25		10	10 22 21	NP	9
					11	7 16 22	NP	9
	668.3	Brown SAND, little gravel						
	667.3	Dense, gray SILTY LOAM, trace gravel	30		12	12 17 19	NP	8
	664.3	Very stiff, gray SILTY CLAY LOAM, trace gravel	35		13	9 10 15	3.63 B	10
	659.3	Dense, brown SANDY LOAM			14	12 21 26	NP	19

GENERAL NOTES

Begin Drilling: 09-13-2012 Complete Drilling: 09-14-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 28.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-05

WEI Job No.: 314-11-01
Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL
Datum: NGVD
Elevation: 696.26 ft
North: 1876087.80 ft
East: 1028559.86 ft
Station: 12+25.00
Offset: 27.00 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	654.3	Very stiff, gray SILTY CLAY LOAM, trace gravel	45		15	6 8 12	3.12 B	14
			50		16	5 14 16	3.77 B	15
	644.3	Loose, gray SILTY LOAM, some gravel	55		17	3 2 4	NP	18
	639.3	Very dense, gray SANDY GRAVEL	60		18	34 51/5	NP	11
	634.3	Very dense, gray SILTY LOAM, some gravel	65		19	19 50/3	NP	16
	629.3	Strong, very poor to fair quality, light gray, slightly cherty, <2 in. to 1 ft. thk. beds, horizontally bedded DOLOSTONE, highly fractured from 67 to 74 ft, with dark gray and greenish gray shale partings --RECOVERY = 100%-- --RQD = 0%--	70		20	CORE		
		--RECOVERY = 100%-- --RQD = 42%--			21	CORE		
		--RECOVERY = 100%-- --RQD = 72%--	75		22	CORE		
	619.3	Boring terminated at 77.00 ft	80					

GENERAL NOTES

Begin Drilling: 09-13-2012 Complete Drilling: 09-14-2012
Drilling Contractor: WTS Drill Rig: D-50 TMR
Driller: R&K Logger: A. Happel Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, 140lb Auto Hammer, boring backfilled with lean grout upon completion

WATER LEVEL DATA

While Drilling: 28.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG HA-B-02

WEI Job No.: 314-11-01

Client: Bowman, Barrett & Associates, Inc.
Project: Warrenville Road/ West Branch DuPage River
Location: Warrenville, DuPage County, IL

Datum: NGVD
Elevation: 686.00 ft
North: 1876092.78 ft
East: 1028350.82 ft
Station: 10+32.00
Offset: 38+00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black to brown GRAVELLY SAND			1	PUSH	NP	29
					2	PUSH	NP	15
			5		3	PUSH	NP	11
					4	PUSH	NP	12
	677.5				5	PUSH	NP	17
		Boring terminated at 8.50 ft						
			10					
			15					
			20					

GENERAL NOTES

Begin Drilling: 09-14-2012 Complete Drilling: 09-14-2012
Drilling Contractor: WTS Drill Rig: LBG HA
Driller: F&C Logger: C. Marin Checked by: CLM
Drilling Method: 1" Geoprobe

WATER LEVEL DATA

While Drilling: 0.00 ft
At Completion of Drilling: 0.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 3141101.GPJ WANGENG.GDT 11/20/12

8:11:13 PM
10/20/2014
S:\1218\05.CADD\Cadd Sheets\0223045-00000-033A-SB06.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =
PLOT SCALE =
PLOT DATE = 10/20/2014

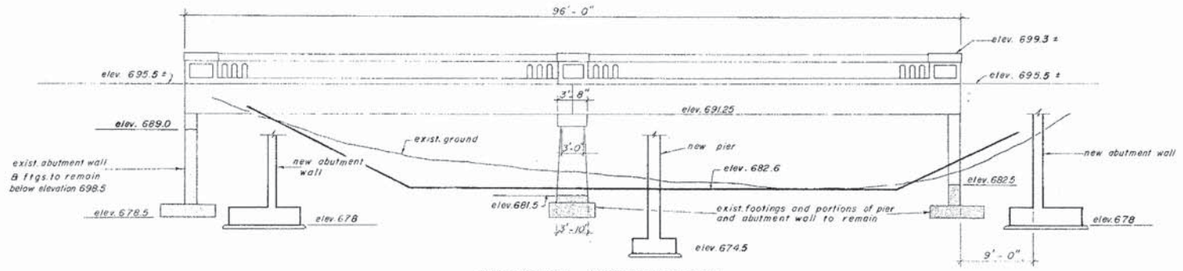
DESIGNED - DF
CHECKED - BAK
DRAWN - MTR
CHECKED - DF

REVISED -
REVISED -
REVISED -
REVISED -

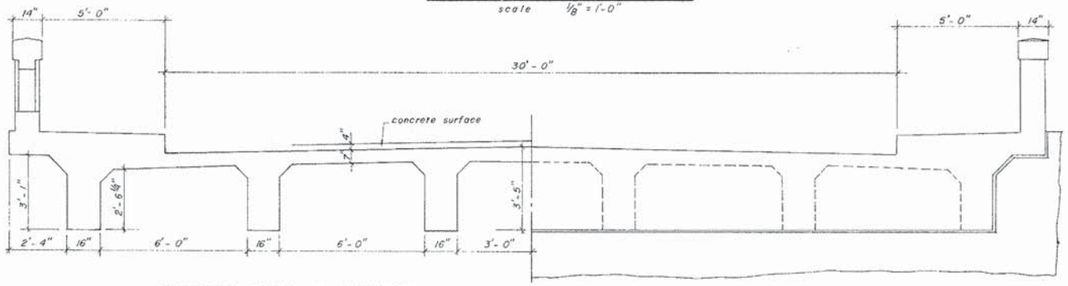
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS VI
STRUCTURE NO. 022-3045
SHEET NO. S-33 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	81
CH 32	WARRENVILLE ROAD	CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

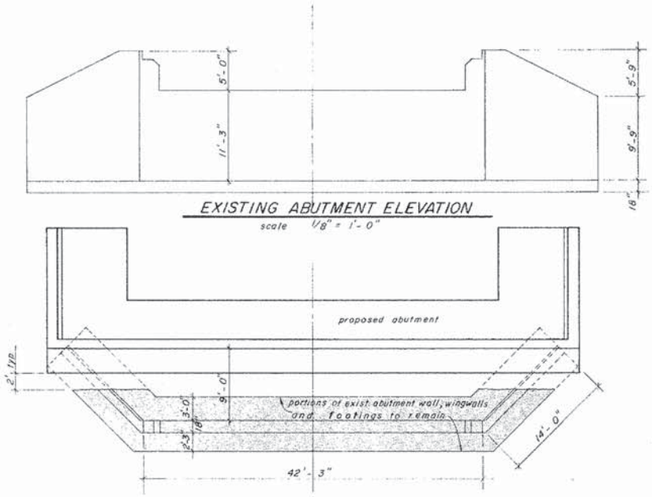


ELEVATION (LOOKING NORTH)
scale 1/8" = 1'-0"

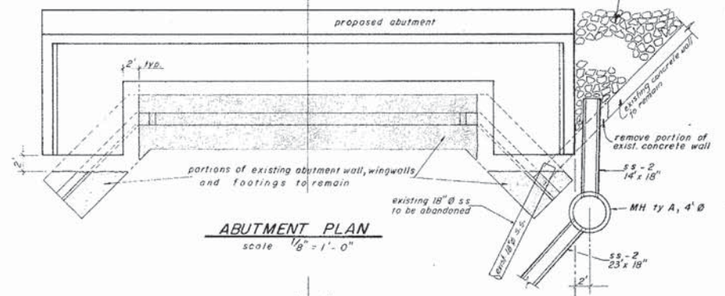


EXISTING HALF X-SECTION
scale 3/8" = 1'-0"

HALF ELEVATION



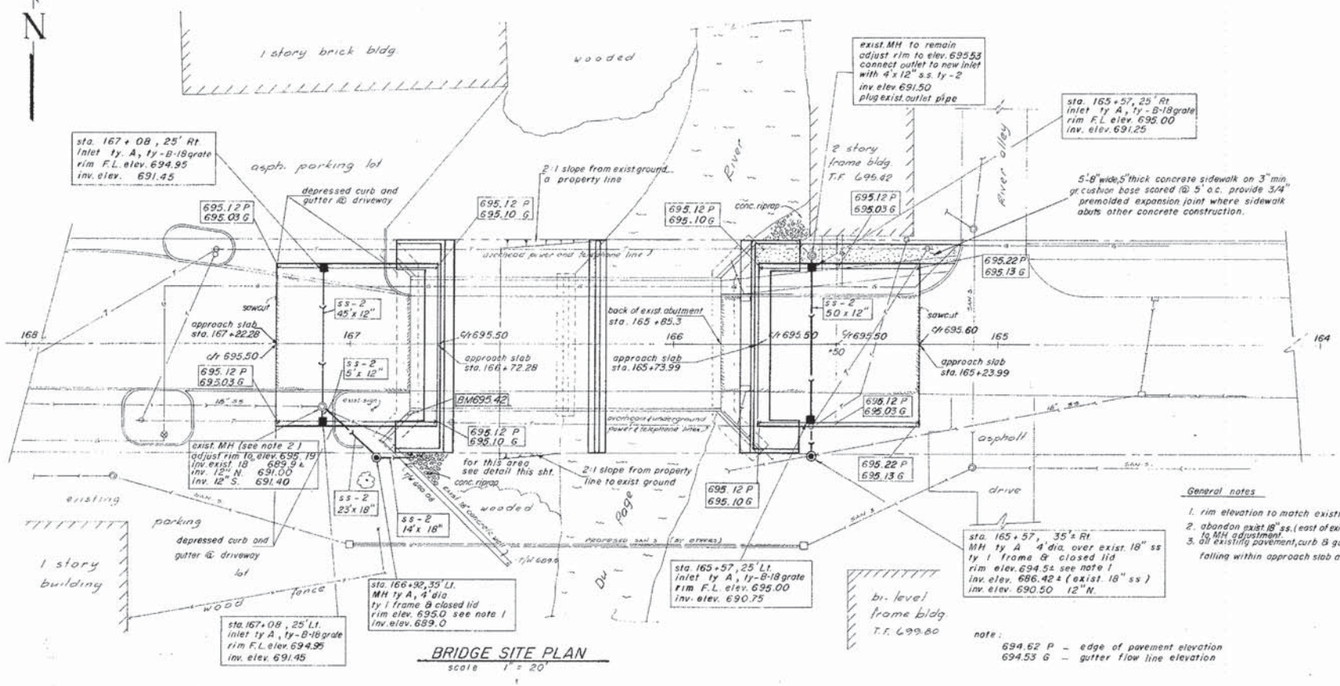
EXISTING ABUTMENT ELEVATION
scale 1/8" = 1'-0"



ABUTMENT PLAN
scale 1/8" = 1'-0"

EXISTING PIER ELEVATION

PLAN
scale 1/8" = 1'-0"



BRIDGE SITE PLAN
scale 1" = 20'

General notes

1. rim elevation to match existing ground surface
2. abandon exist 18" ss. (east of exist. MH) cost incidental to MH adjustment
3. all existing pavement, curb & gutter, sidewalks, etc. falling within approach slab area shall be removed.

note:
694.62 P — edge of pavement elevation
694.53 G — gutter flow line elevation

EPSTEIN CIVIL ENGINEERING, INC.
600 WEST FULTON STREET
CHICAGO, ILLINOIS 60606
312-454-9100 TELEX 25-4314

WARRENVILLE ROAD
W. BRANCH OF DUPAGE RIVER
DU PAGE CO. ILL.

REVISIONS | DRAWN BY J.S. | APPROVAL

DEMOLITION PLAN AND DETAILS

JOB NUMBER 6344
DATE AUG. 8, 1983
SHEET NUMBER 2 OF 8 SHEETS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

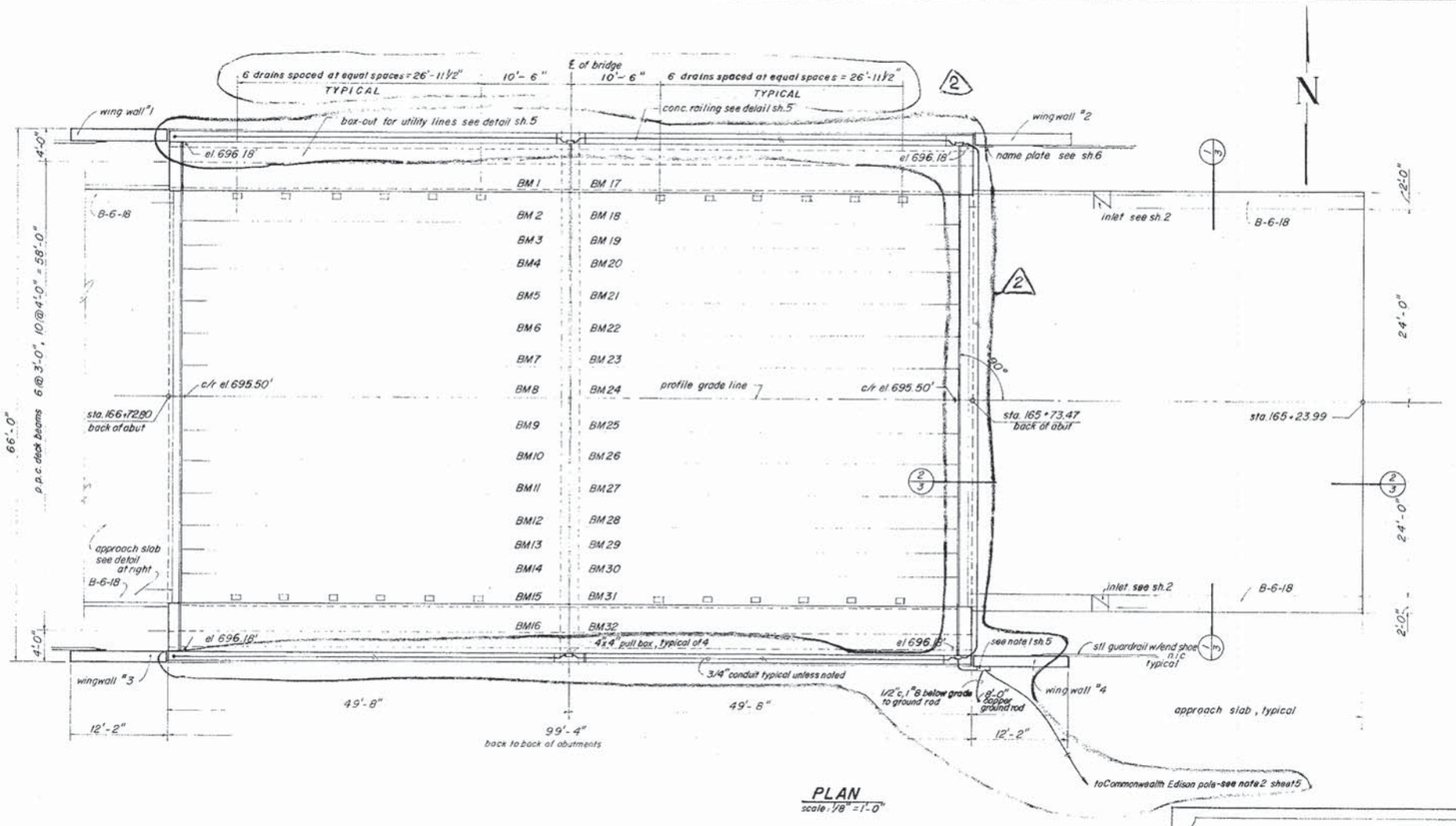
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

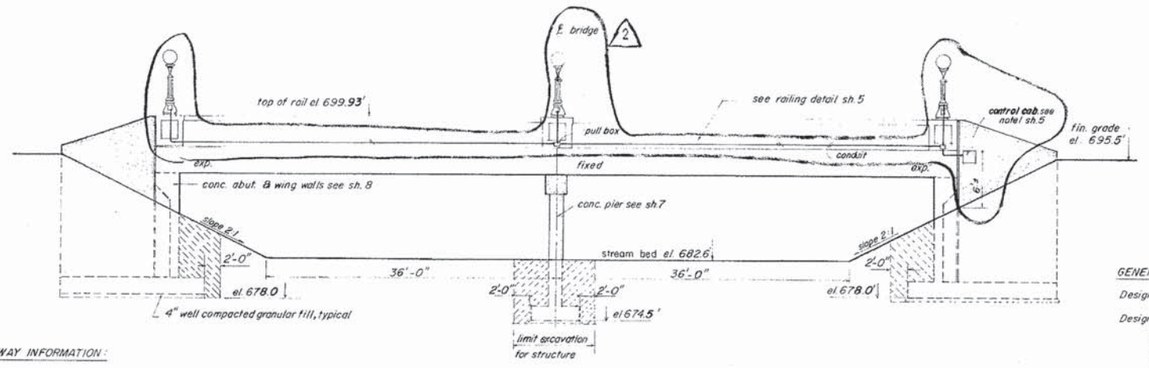
FOR INFORMATION ONLY
STRUCTURE NO. 022-3045
SHEET NO. S-34 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	82
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

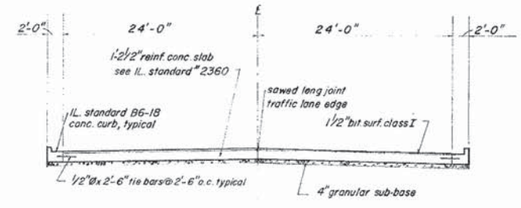
S:\1216\05_CADD\Cadd Sheets\8223045-030808-834-FY01.dgn 10/20/2014 8:34:19 PM



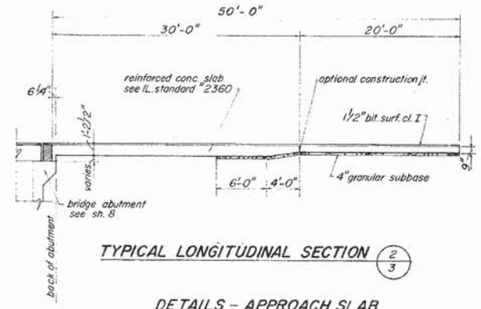
PLAN
scale: 1/8" = 1'-0"



ELEVATION
scale: 1/8" = 1'-0"
(ALTERNATE RAILING SHOWN)



TYPICAL CROSS SECTION (1/3)



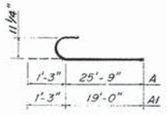
TYPICAL LONGITUDINAL SECTION (2/3)

DETAILS - APPROACH SLAB
scale: 1/8" = 1'-0"

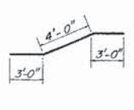
WEST BRANCH OF THE DUPAGE RIVER
BUILT 1983 BY
DUPAGE COUNTY
SEC. 83-00220-00-BR-M.F.T.
LOADING HS 20
STR. NO. 022-3043

15" × 8"

NAME PLATE LETTERING
(SEE DWG. NO. 6 FOR NAME PLATE DETAILS)



BARS A & A1



BAR A2

GENERAL NOTES:

Design load: HS 20-44

Design stresses:
concrete
f'c = 3,500 p.s.i.
fc = 0.4 f'c = 1,400 p.s.i.
fc with soil pressure = 1,000 p.s.i.
n = 8
v = 5

structural steel (ASTM A-36)
fs = 20,000 p.s.i.
E = 29 x 10⁶ p.s.i.

reinforcing steel (ASTM A615, grade 60)
fs = 20,000 p.s.i.

precast prestressed units
f'c = 5,000 p.s.i.
f'ci = 4,000 p.s.i.
f's = 270,000 p.s.i.
fsi = 188,700 p.s.i. (strands 1/2" ø)
fcb = 425 p.s.i (tension)

WATERWAY INFORMATION:

base flood flow: 100 year, Q = 4430 c.f.s.

waterway opening: existing 783 sq. ft., proposed 963.07 sq. ft.

BILL OF MATERIAL - APPROACH SLAB

BAR	NO	SIZE	LENGTH	SHAPE
A	128	#9	27'-0"	
A1	76	#9	20'-3"	
A2	128	#5	10'-0"	
A3	336	#4	25'-6"	
B	160	#5	23'-6"	
B1	104	#4	11'-6"	
bridge approach pavement			sq. yds.	532
bit. conc. surface course class I			tons	44
reinforcement			lbs.	28,760
bit. conc. surf course cl. I - bridge			tons	47

EPSTEIN CIVIL ENGINEERING, INC.
600 WEST FULTON STREET
CHICAGO, ILLINOIS 60606
312-454-9100 TELEX 25-4314

WARRENVILLE ROAD
W. BRANCH OF DUPAGE RIVER
DU PAGE CO. IL

2 REVISED ..... SEE SHEET 1 OCT. 14, 1983

REVISIONS | DRAWN BY E.Y. | APPROVAL

GENERAL PLAN & ELEVATION

JOB NUMBER 6344 | SHEET NUMBER 3
DATE AUG. 8, 1983 | OF 8 SHEETS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

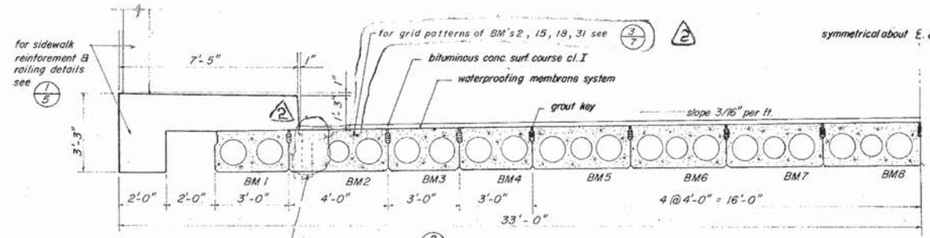
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
STRUCTURE NO. 022-3045
SHEET NO. S-35 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	83
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

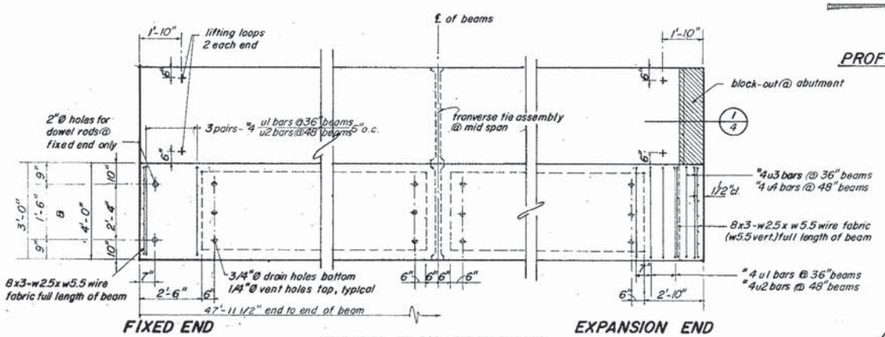
8:11:58 PM
10/20/2014
S:\1216\85_CADD\Cadd Sheets\0223845-020202-835-Y102.dgn



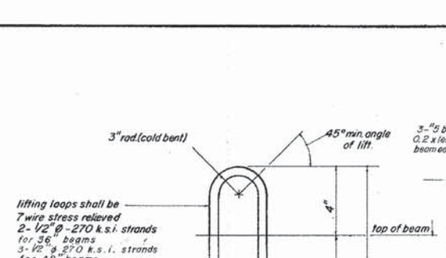
HALF CROSS SECTION

scale: 3/8" = 1'-0"

PROFILE OF OVERLAY

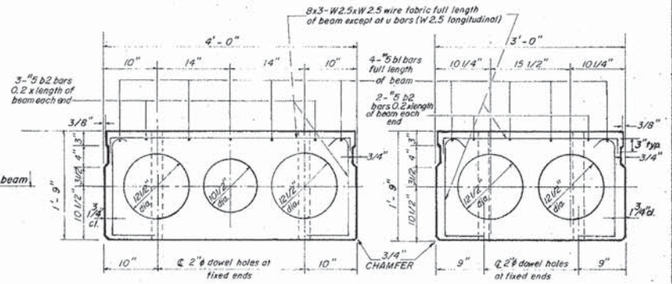


TYPICAL PLAN - DECK BEAM



DETL. - LIFT LOOP

no scale



STD. 2421-48 (20 req'd)

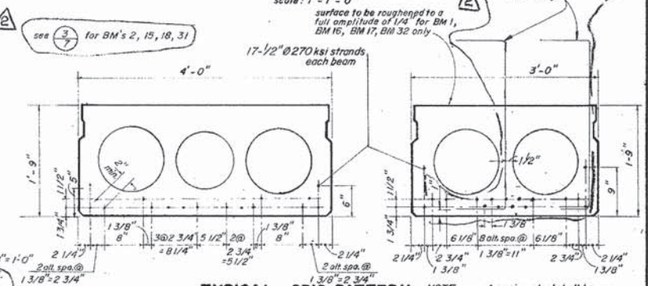
STD. 2421-36 (12 req'd)

TYPICAL CROSS SECTION

scale: 1" = 1'-0"

surface to be roughened to a full amplitude of 1/4" for BM 1, BM 16, BM 17, BM 32 only

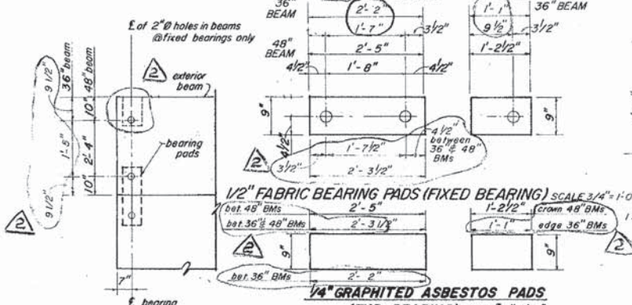
94-#4 d3 bars @ 1'-0" o.c. @ BM 1, BM 16, BM 17, BM 32 only



TYPICAL - GRID PATTERN

scale: 1" = 1'-0"

NOTE: prestressing steel shall be non-galvanized high strength, stress relieved 7-wire strand, grade 270.



1/2" FABRIC BEARING PADS (FIXED BEARING) SCALE 3/4" = 1'-0"

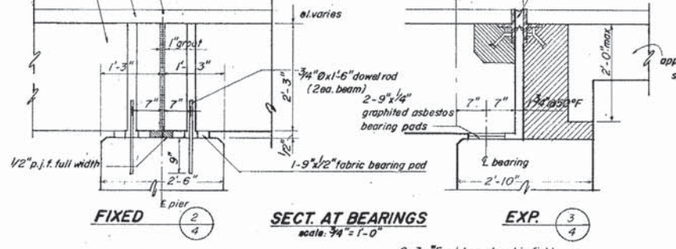
1/4" GRAPHITED ASBESTOS PADS (EXP. BEARING) scale: 3/4" = 1'-0"

BEARING PADS LOCATION

(bearing assembly cost incidental to beams.)

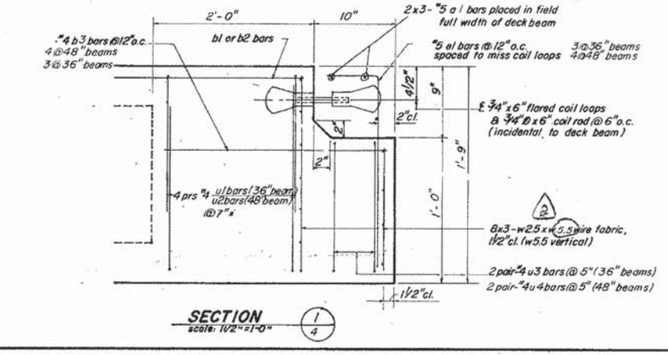
note: After beams are in place, holes shall be drilled into the bridge seat and the dowel rods grouted in place, prior to grouting shear keys. Provide 2-1/8" fabric shim pads as required for all bearings.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing.



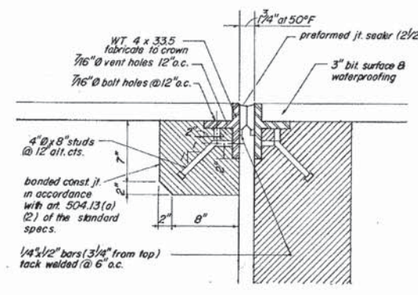
SECT. AT BEARINGS

scale: 3/4" = 1'-0"



SECTION

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

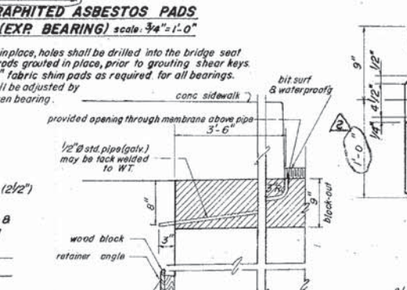


NOTE:

1. hatched area to be poured after beams have been erected, joints & shear keys grouted.
2. ends of beams shall be aligned at the expansion joints. any lineal variation in the beam shall be placed at the fixed joint (fixed) (1" ± joint shall be packed with a very dry mix of 2:1 sand and p.c. mortar.

EXPANSION JOINT DETAIL

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

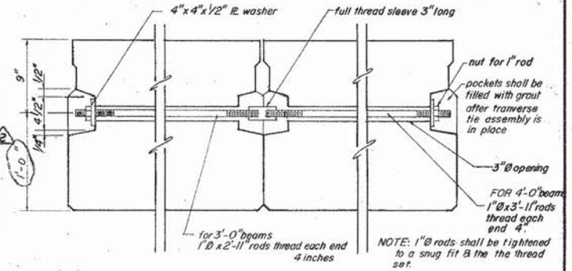


NOTE:
anchor bolts may be cast into the masonry or placed in drill holes and grout in place. cost including retainer angle & accessories incidental to beams

DRAIN HOLES & RETAINER ANGLE DET'L AT EXPANSION JOINT

scale: 1" = 1'-0"

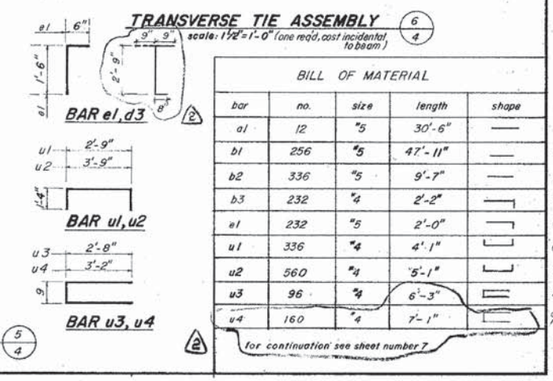
5/4



TRANSVERSE TIE ASSEMBLY

scale: 1 1/2" = 1'-0" (one req'd, cost incidental to beam)

6/4



2

BILL OF MATERIAL

bar	no.	size	length	shape
a1	12	#5	30'-6"	—
b1	256	#5	47'-11"	—
b2	336	#5	9'-7"	—
b3	232	#4	2'-2"	⌐
e1	232	#5	2'-0"	⌐
u1	336	#4	4'-1"	⌐
u2	560	#4	5'-1"	⌐
u3	96	#4	6'-3"	⌐
u4	160	#4	7'-1"	⌐

for continuation see sheet number 7

EPSTEIN CIVIL ENGINEERING, INC.

600 WEST FULTON STREET
CHICAGO, ILLINOIS 60606
312-454-9100 TELEX 25-4314

WARRENVILLE ROAD
W. BRANCH OF DUPAGE RIVER
DU PAGE CO. IL.

2 REVISED ..... SEE SHEET 1 OCT. 14, 1983

REVISIONS

DRAWN BY E. Y.
APPROVAL

P.P.C. DECK BEAM DETAILS

JOB NUMBER 6344
DATE AUG. 8, 1983
SHEET NUMBER 4
OF 8 SHEETS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

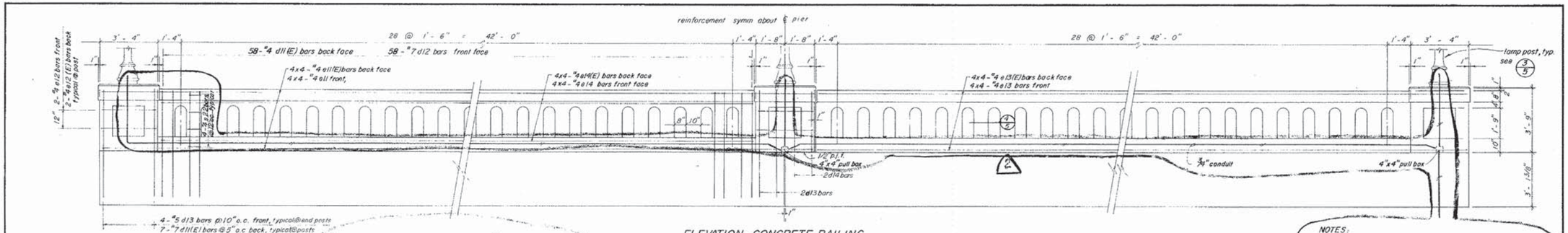
USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
STRUCTURE NO. 022-3045
SHEET NO. S-36 OF S-40 SHEETS

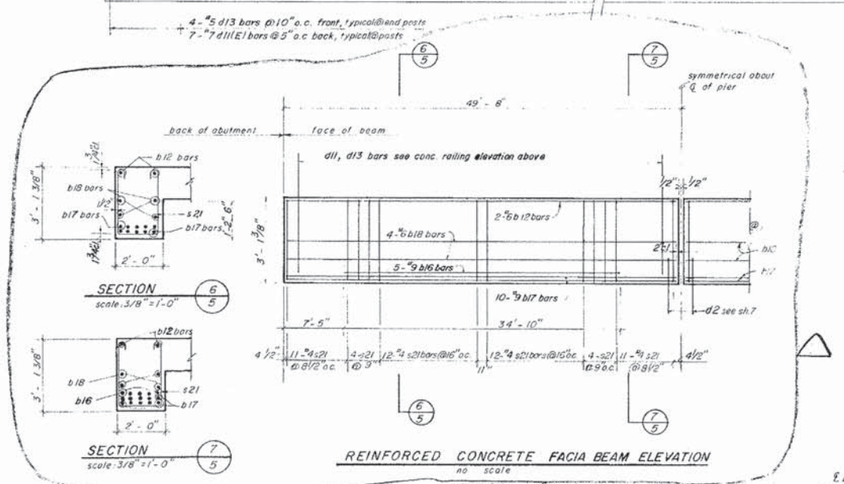
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	84
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

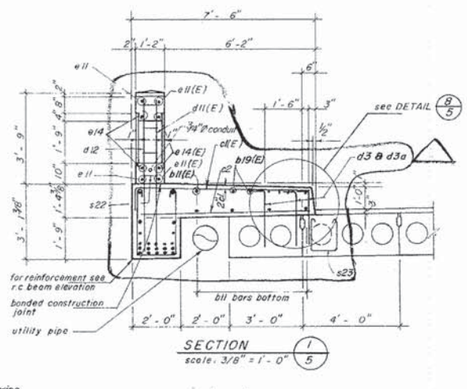
S:\1216\85_CADD\Cadd Sheets\8223845-00000-836-FY03.dgn
10/20/2014
8:12:37 PM

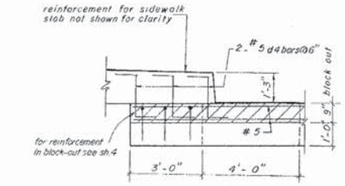


ELEVATION- CONCRETE RAILING

scale: 3/8" = 1'-0"

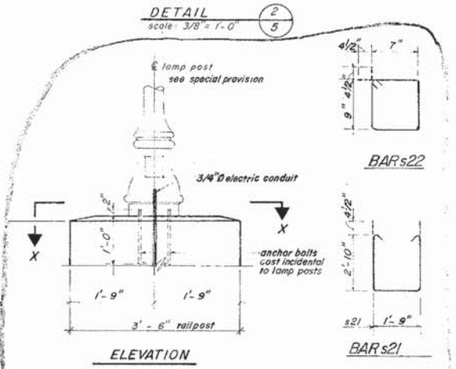






NOTES:

1. Contractor shall furnish & install a 1Ø, 3w, 120/240 v, 2 circuit (20A) load center with 40 amp. M.L.O. Du & 18"x18"x6" NEMA 4 cabinet with a door locking device. He shall also furnish, install and wire a photo cell on top of the enclosure to control 1-20 amp circuit providing power to the bridge lighting. 1-20 amp circuit breaker shall be spare. All devices shall be U.L. listed. Grounding to be per N.E.C. requirements.
2. Contractor shall run new 1Ø, 3w, 120/240v service conductors, 3-#8, 1-c approx. 35' south east of the bridge to existing Commonwealth Edison source pole. He shall run conduit 10'-0" above grade and allow 25' slack cable for connection by Commonwealth Edison to existing 120/240 v., 3Ø, 4w. service. Contractor shall seal top of conduit.
3. Contactor shall install expansion fittings with copper bonding jumpers where required.

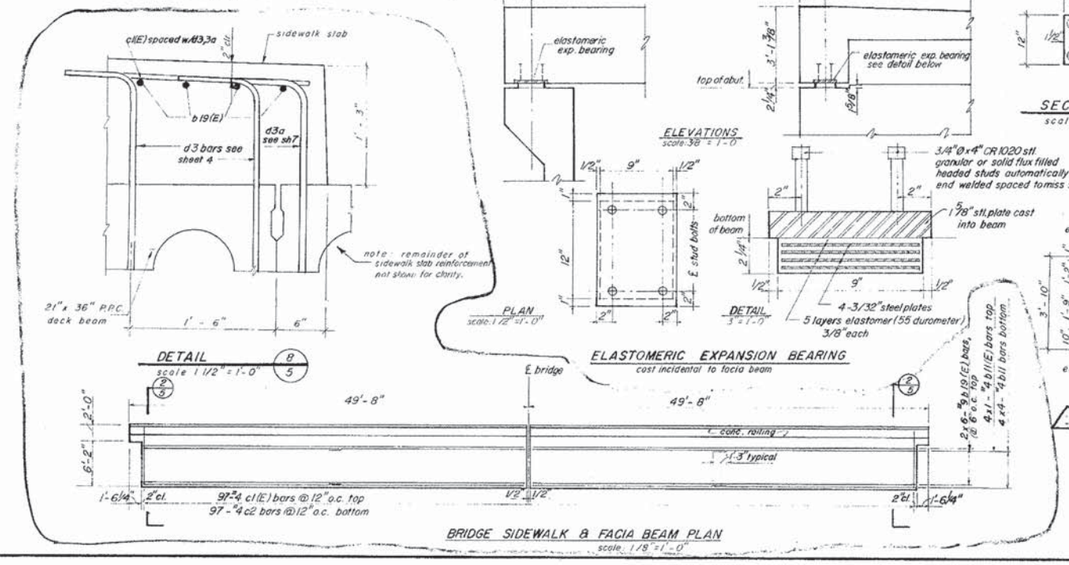


BILL OF MATERIAL - CONC. RAILING

BAR	NO.	SIZE	LENGTH	SHAPE
d11(E)	274	#4	6'-0"	——
d12	232	#7	6'-0"	——
d13	20	#5	6'-0"	——
d14	4	#5	3'-6"	——
e11	16 △	#4	25'-10"	——
e11(E)				
e12	12	#4	3'-4"	——
e12(E)				
e13	16	#4	24'-5"	——
e13(E)				
e14	16	#4	22'-10"	——
e14(E)				
s22	464	#4	3'-5"	BENT
		△		
handrail conc			cu. yds.	2.7
reinforcement			lbs.	6,757
structural steel			lbs.	△ 376

BILL OF MATERIAL — BRIDGE SIDEWALK

BAR	NO	SIZE	LENGTH	SHAPE
b11	32	#4	24'-1"	——
b11(E)	8			
b12	8	#6	49'-3"	——
				△
b16	20	#9	34'-10"	——
b17	20	#9	49'-3"	——
b18	20	#6	49'-3"	——
c2	194	#4	1'-0"	⌐
c1(E)	194	#4	8'-10"	⌐
d4	24	#5	3'-3"	⌐
s21	216	#4	8'-2"	⊓
b19(E)	24	#9	47'-10"	——
class X concrete	△		cu. yds.	98
reinforcement			lbs.	15,653 △



Epstein Civil Engineering, Inc.	600 WEST FULTON STREET CHICAGO, ILLINOIS 60606 312-454-9100 TELEX 25-4314	WARRENVILLE ROAD W. BRANCH OF DUPAGE RIVER DU PAGE CO. IL	△ REVISED ..... SEE SHEET 1 OCT.14,1983 △ REVISED & ISSUED FOR CONSTRUCTION-SEPT. 8,1983	DRAWN BY J. S. APPROVAL	SIDEWALK AND ALTERNATE CONCRETE RAILING DETAILS

JOB NUMBER	SHEET NUMBER
6344	5
DATE AUG. 8, 1983	OF 8 SHEETS

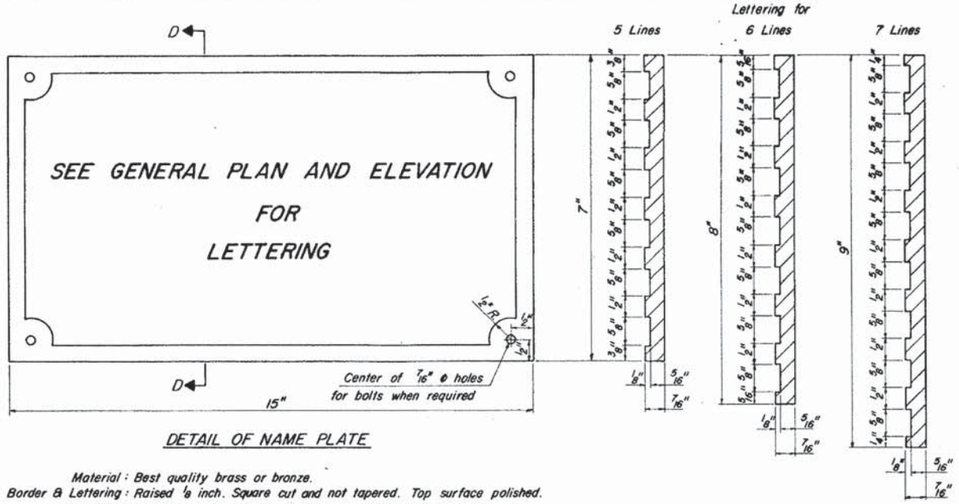
BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME =	DESIGNED - DF	REVISED -
		CHECKED - BAK	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
STRUCTURE NO. 022-3045
SHEET NO. S-37 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	85
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS FED. AID PROJECT				

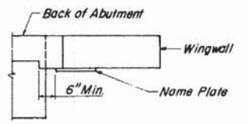
S:\1216\05_CADD\Cadd Sheets\0223045-00000-837-FY04.dgn 10/20/2014 8:13:16 PM



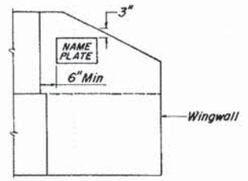
DETAIL OF NAME PLATE

Material : Best quality brass or bronze.
Border & Lettering : Raised 1/8 inch. Square cut and not tapered. Top surface polished.
Fastenings : Four lugs at least three inches long, cast on back of plate.

SECTIONS D-D



PLAN



ELEVATION

LOCATION OF NAME PLATE

NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of A.A.S.H.T.O. M-183 except posts and angles shall conform to A.A.S.H.T.O. M-223, Grade 50.

Bolts, cap screws and nuts shall conform to the requirements of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.A.S.H.T.O. M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M-232.

All post, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M-111 and A.S.T.M. A-385. Galvanized rail shall not be painted.

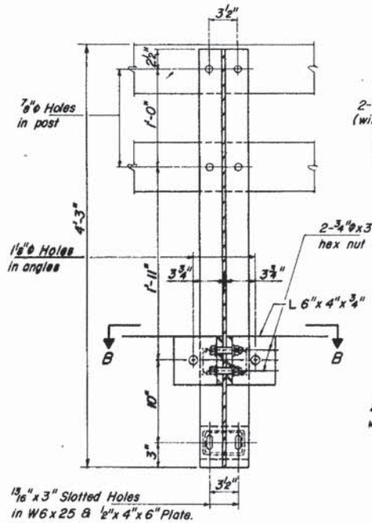
For multi span bridges, sufficient 1/4" ø x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

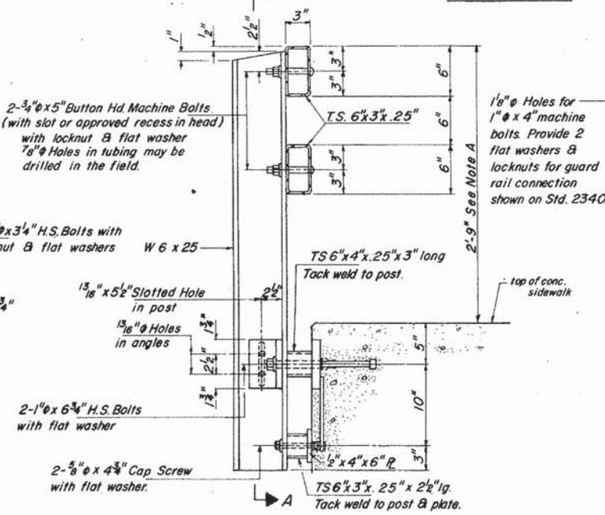
The 1/2" x 4" x 6" plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/8" fabric bearing pads between the plates and concrete.

The 3/4" ø high strength bolts used to connect the 6" x 4" x 3/4" angles to the post shall be tightened in accordance with Article 507.04 (g)(3) of the Standard Specifications. The 1" ø high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" ø cap screws in bottom of posts shall be tightened to a snug fit only.

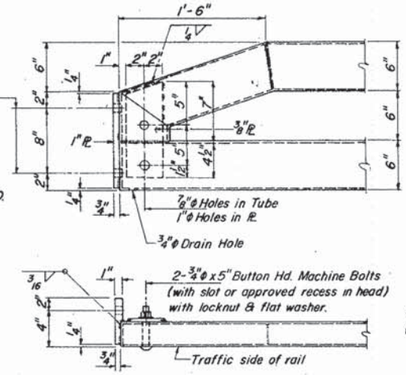
The maximum allowable Rail Post spacing shall be 9'-0"



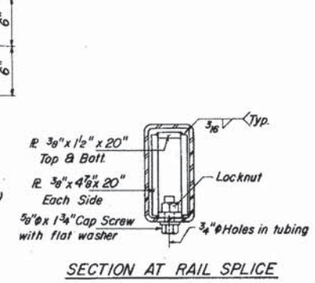
SECTION A-A



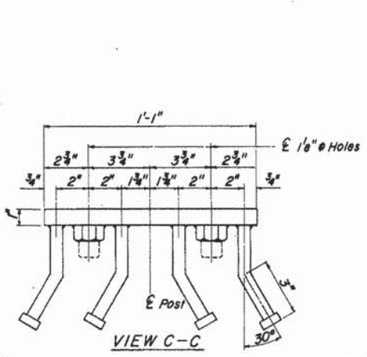
SECTION AT RAIL POST



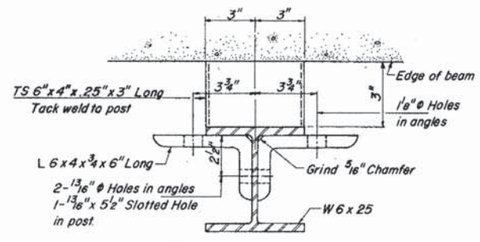
END OF RAIL DETAILS



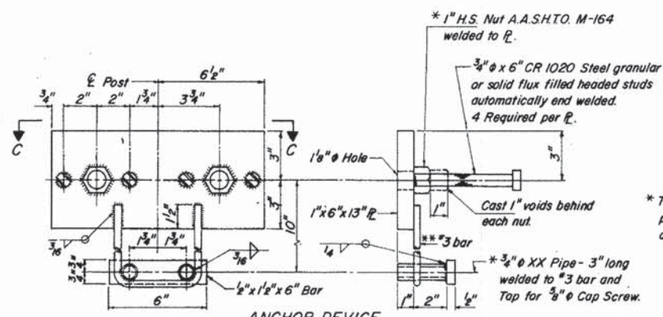
SECTION AT RAIL SPLICE



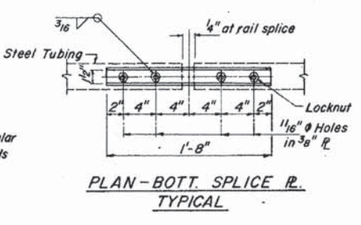
VIEW C-C



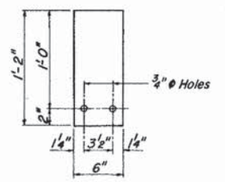
SECTION B-B



ANCHOR DEVICE



PLAN - BOTT. SPLICE PL. TYPICAL



1/4" SHIM PLATE

* Threaded areas shall be plugged or blocked off during casting of beam.

8-8-83 ISSUED FOR BIDDING

Illinois Department of Transportation

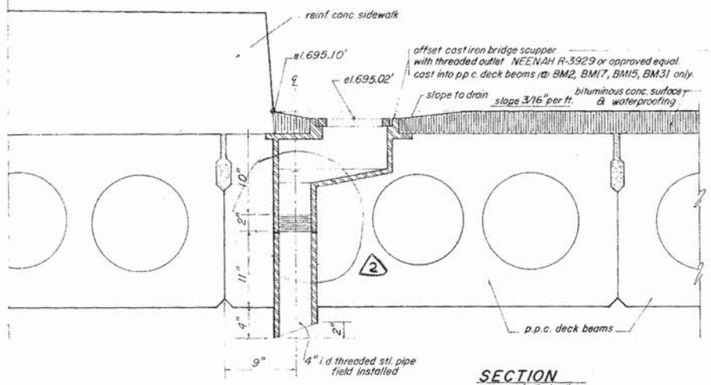
PASSED NOV. 19 1980
Engineer of Bridge and Traffic Structures
APPROVED NOV. 19 1980
Engineer of Design

ISSUED 1-1-81

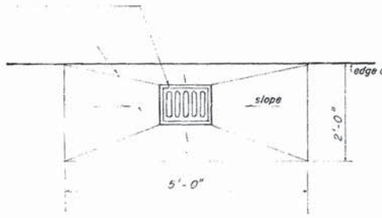
WARRENVILLE ROAD
W. BRANCH OF DUPAGE RIVER
DU PAGE CO. IL.

RAILING AND NAME PLATE
STEEL RAILING, TYPE N
STANDARD CR-TN
SHEET NO. 6

VI-1

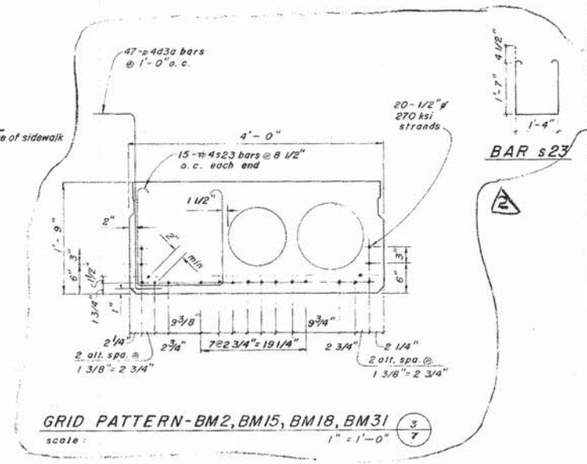


SECTION
scale 1 1/2" = 1'-0"



PLAN
scale: 3/4" = 1'-0"

DETAIL - DECK DRAIN (2/7)

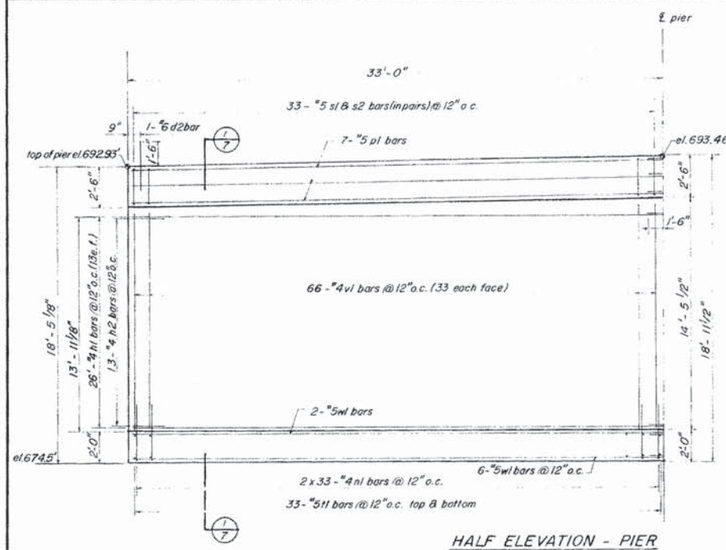


GRID PATTERN - BM2, BM15, BM18, BM31 (3/7)
scale: 1" = 1'-0"

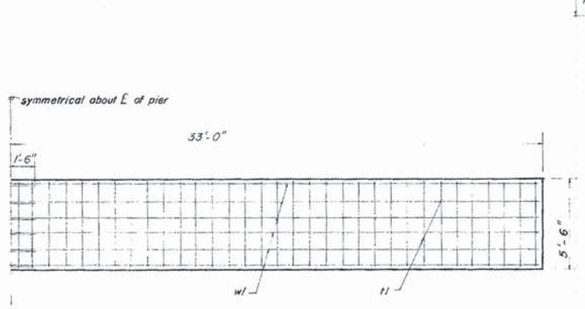
BAR s23

BILL OF MATERIAL
continued from sheet number 4

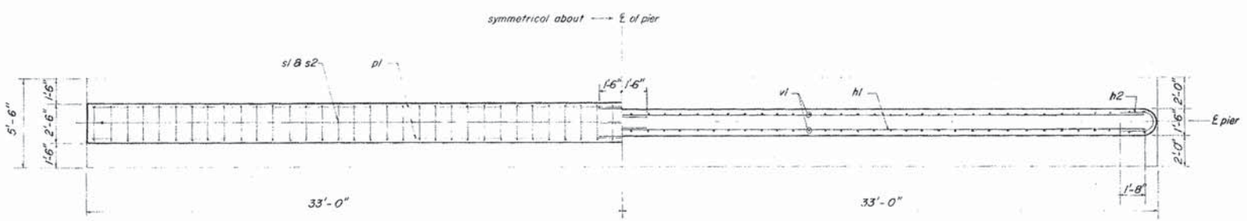
bar	no.	size	length	shape
d3a	188	#4	4'-2"	
d3	376	#4	4'-2"	
s23	120	#4	5'-3"	
precast prestressed conc. deck beams			5,568	sq. ft.
structural steel			6,834	lbs.
class X concrete			3	cu. yds.



HALF ELEVATION - PIER
scale: 1/4" = 1'-0"

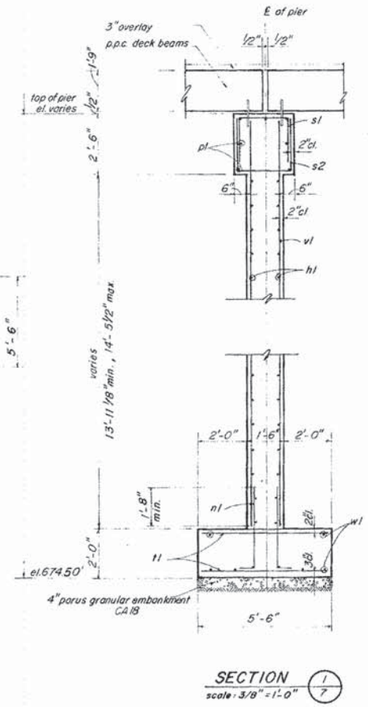


HALF PLAN - PIER FOOTING
scale: 1/4" = 1'-0"



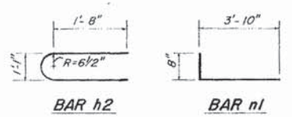
HALF PLAN - PIER CAP
scale: 1/4" = 1'-0"

HALF PLAN - PIER
scale: 1/4" = 1'-0"

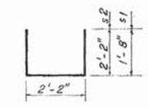


SECTION (1/7)
scale: 3/8" = 1'-0"

MAX SOIL PRESSURE : 4790 p.s.f.



BAR h2 BAR n1



BAR s1, s2

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
h1	52	#4	34'-4"	—
h2	26	#4	6'-9"	⊂
d2	2	#6	3'-0"	—
n1	132	#4	4'-6"	L
p1	14	#5	34'-4"	—
s1	66	#5	5'-6"	⊓
s2	66	#5	6'-6"	⊔
t1	132	#5	5'-2"	—
v1	132	#4	13'-8"	—
w1	16	#5	34-4"	—
class X concrete		cu. yds.	95	
reinforcement		lbs.	5,524	
deck drains		each	24	

EPSTEIN CIVIL ENGINEERING, INC.
600 WEST FULTON STREET
CHICAGO, ILLINOIS 60606
312-454-9100 TELEX 25-4314

WARRENVILLE ROAD
W. BRANCH OF DUPAGE RIVER
DU PAGE CO. IL.

2 REVISED ..... SEE SHEET 1 OCT/4, 1983

REVISIONS | DRAWN BY E. Y. | APPROVAL

PIER PLAN AND DETAILS

JOB NUMBER 6344
DATE AUG. 8, 1983
SHEET NUMBER 7 OF 8 SHEETS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

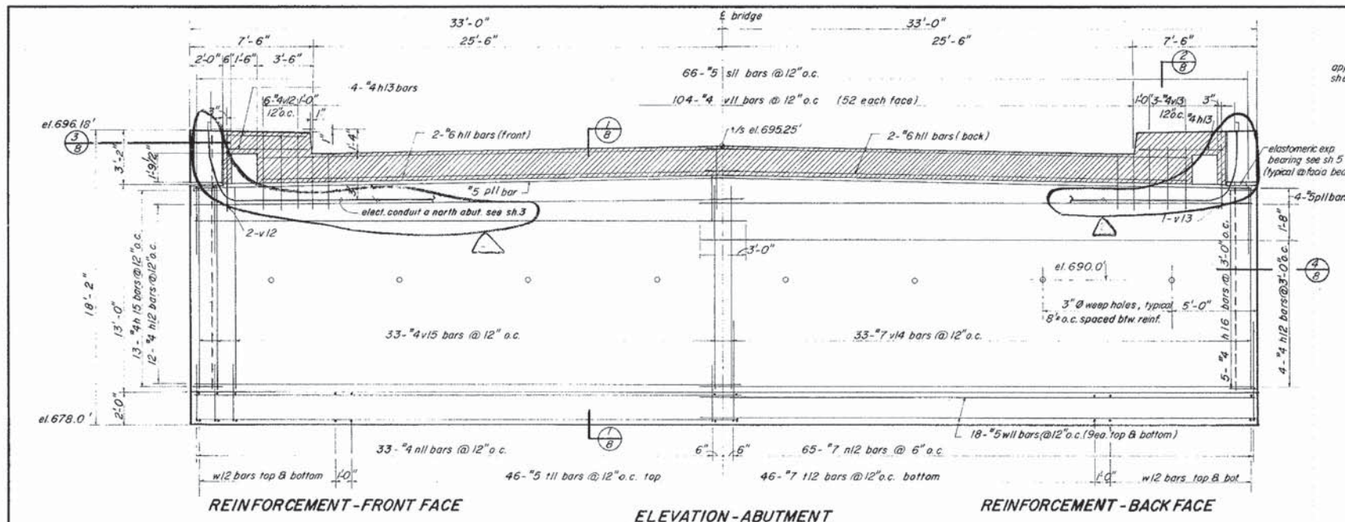
USER NAME =	DESIGNED - DF	REVISED -	
	CHECKED - BAK	REVISED -	
PLOT SCALE =	DRAWN - MTR	REVISED -	
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
STRUCTURE NO. 022-3045
SHEET NO. S-39 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	87
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

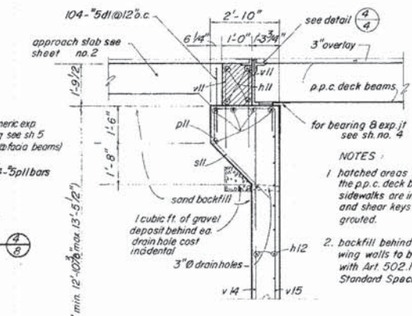
S:\12165\05_CADD\Cadd Sheets\12223845-00000-839-F706.dgn
10/28/2014
8:14:39 PM

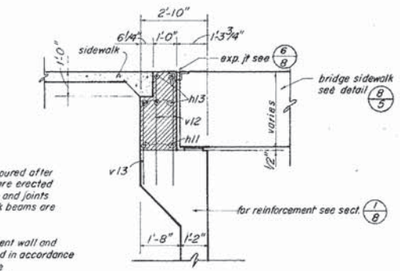


REINFORCEMENT - FRONT FACE

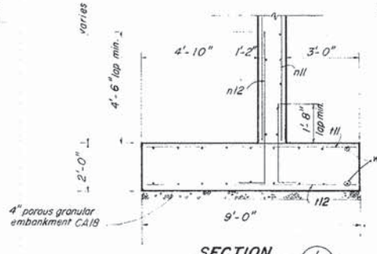
ELEVATION - ABUTMENT
scale: 1/4" = 1'-0"

REINFORCEMENT - BACK FACE

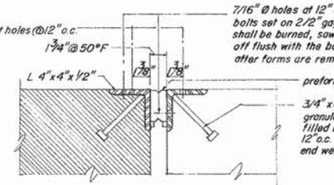




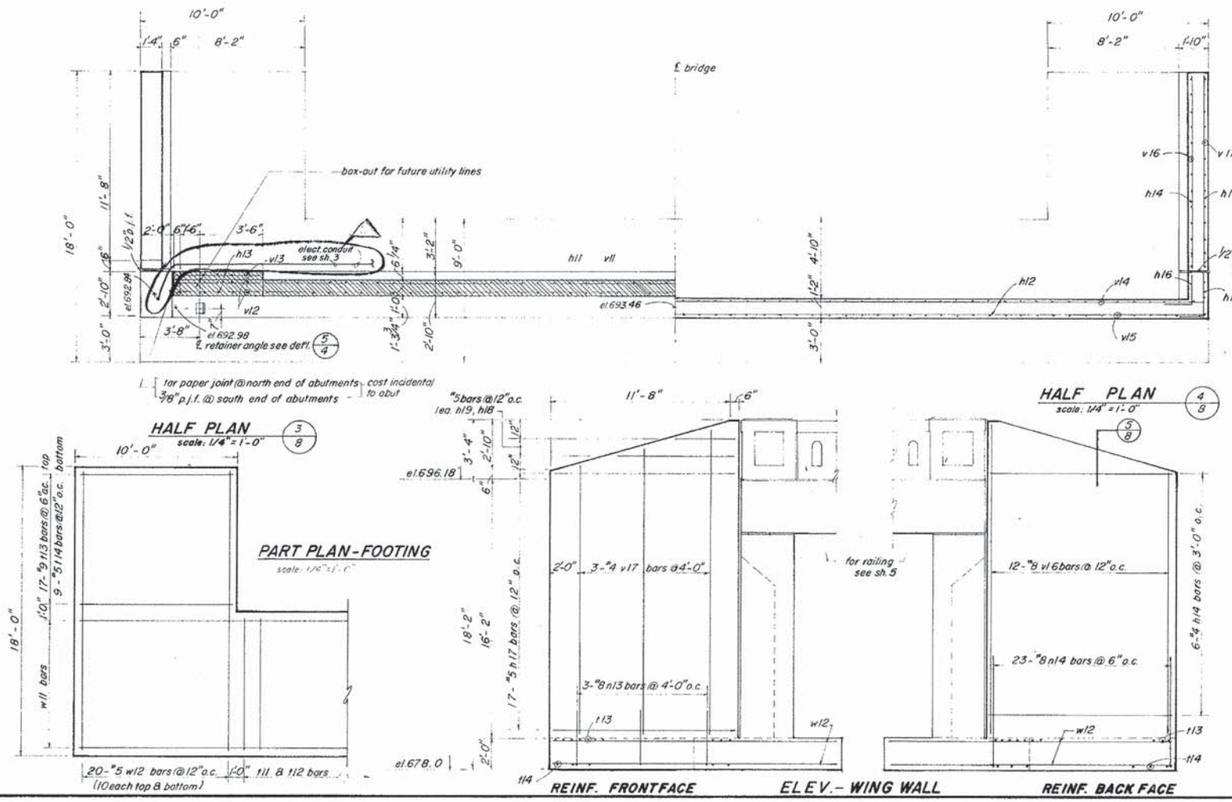
SECTION 2/8
scale: 3/8" = 1'-0"



SECTION 1/8
scale: 3/8" = 1'-0"



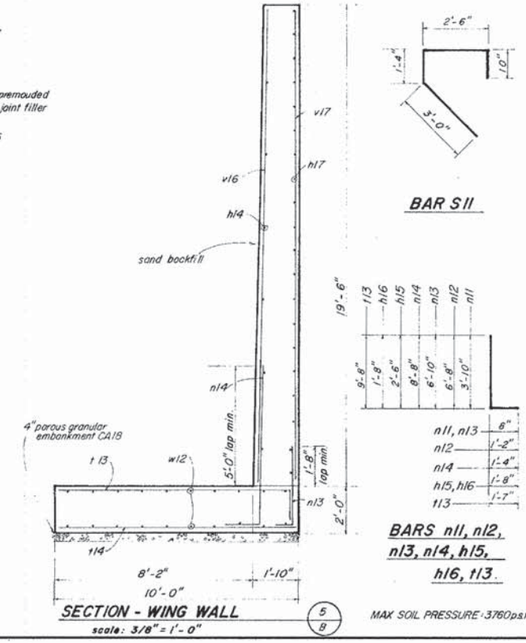
DETAIL - EXP. JT. @ SIDEWALK 6/8
scale: 1 1/2" = 1'-0"



HALF PLAN 3/8
scale: 1/4" = 1'-0"

PART PLAN - FOOTING
scale: 1/4" = 1'-0"

HALF PLAN 4/8
scale: 1/4" = 1'-0"



SECTION - WING WALL 5/8
scale: 3/8" = 1'-0"

MAX SOIL PRESSURE 3760 p.s.f.

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
d1	208	"5	2'-11"	—
h11	16	"4	30'-4"	—
h12	68	"4	34'-4"	—
h13	20	"4	5'-1"	—
h14	24	"4	11'-10"	—
h15	52	"4	4'-2"	L
h16	20	"4	3'-4"	L
h17	68	"5	11'-10"	—
h18	4	"5	14'-6"	—
h19	4	"5	7'-4"	—
n11	132	"4	4'-6"	L
n12	260	"7	7'-10"	L
n13	12	"4	7'-6"	L
n14	92	"8	10'-0"	L
p11	20	"5	34'-4"	—
s11	132	"5	7'-8"	⌐
t11	92	"5	8'-8"	—
t12	92	"7	8'-8"	—
t13	68	"9	11'-3"	L
t14	36	"5	9'-8"	—
v11	208	"4	3'-0"	—
v12	16	"4	4'-9"	—
v13	12	"4	3'-9"	—
v14	132	"7	12'-6"	—
v15	132	"4	12'-6"	—
v16	48	"8	16'-6"	—
v17	12	"4	17'-0"	—
w11	72	"5	34'-4"	—
w12	80	"5	17'-8"	—
class X concrete			cu. yds.	278
reinforcement			lbs.	29,270
structural steel			lbs.	487

EPSTEIN CIVIL ENGINEERING, INC.
600 WEST FULTON STREET
CHICAGO, ILLINOIS 60606
312-454-9100 TELEX 25-4314

WARRENVILLE ROAD
W. BRANCH OF DUPAGE RIVER
DU PAGE CO. IL.

2 REVISED --- SEE SHEET 1 OCT. 14, 1983
1 REVISED & ISSUED FOR CONSTRUCTION - SEPT. 8, 1983

DRAWN BY E.Y.
APPROVAL

ABUTMENT PLAN & DETAILS

JOB NUMBER 6344
DATE AUG. 8, 1983
SHEET NUMBER 8
OF 8 SHEETS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - DF	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 10/20/2014	CHECKED - DF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
STRUCTURE NO. 022-3045
SHEET NO. S-40 OF S-40 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	88
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\85_CADD\Cadd Sheets\2223045-88888-848-F787.dgn
10/28/2014
8:15:25 PM

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

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

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

700
695
690

TEMP EASEMENT
EX. ROW
℄ WARRENVILLE ROAD
EX. ROW
5% 2% 2% 695.47 2% 2% 2% 4.26%

DRIVEWAY AT STA 8+70.00

TEMP EASEMENT
EX. ROW
℄ WARRENVILLE ROAD
EX. ROW
5.1% 2% 2% 695.37 2% 2% 2% 2.31%

15" EXISTING STORM SEWER
4" GAS (NICOR)
12" EXISTING STORM SEWER
15" SANITARY (C.O.W.)

CUT: 67.7
FILL: 11.29
TS REM: 1.46

8+50.00

EX. ROW
℄ WARRENVILLE ROAD
0.5% 2% 695.15
EXIST POWER POLE (COMED) STA. 8+08.30
15" EXISTING STORM SEWER
10" EXISTING STORM SEWER
15" SANITARY (C.O.W.)
4" GAS (NICOR)

CUT: 88.50
FILL: 1.1
TS REM: 1.64

8+00.00

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

S:\12161\DS_CADD\Cadd Sheets\012216-sht-XSC.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

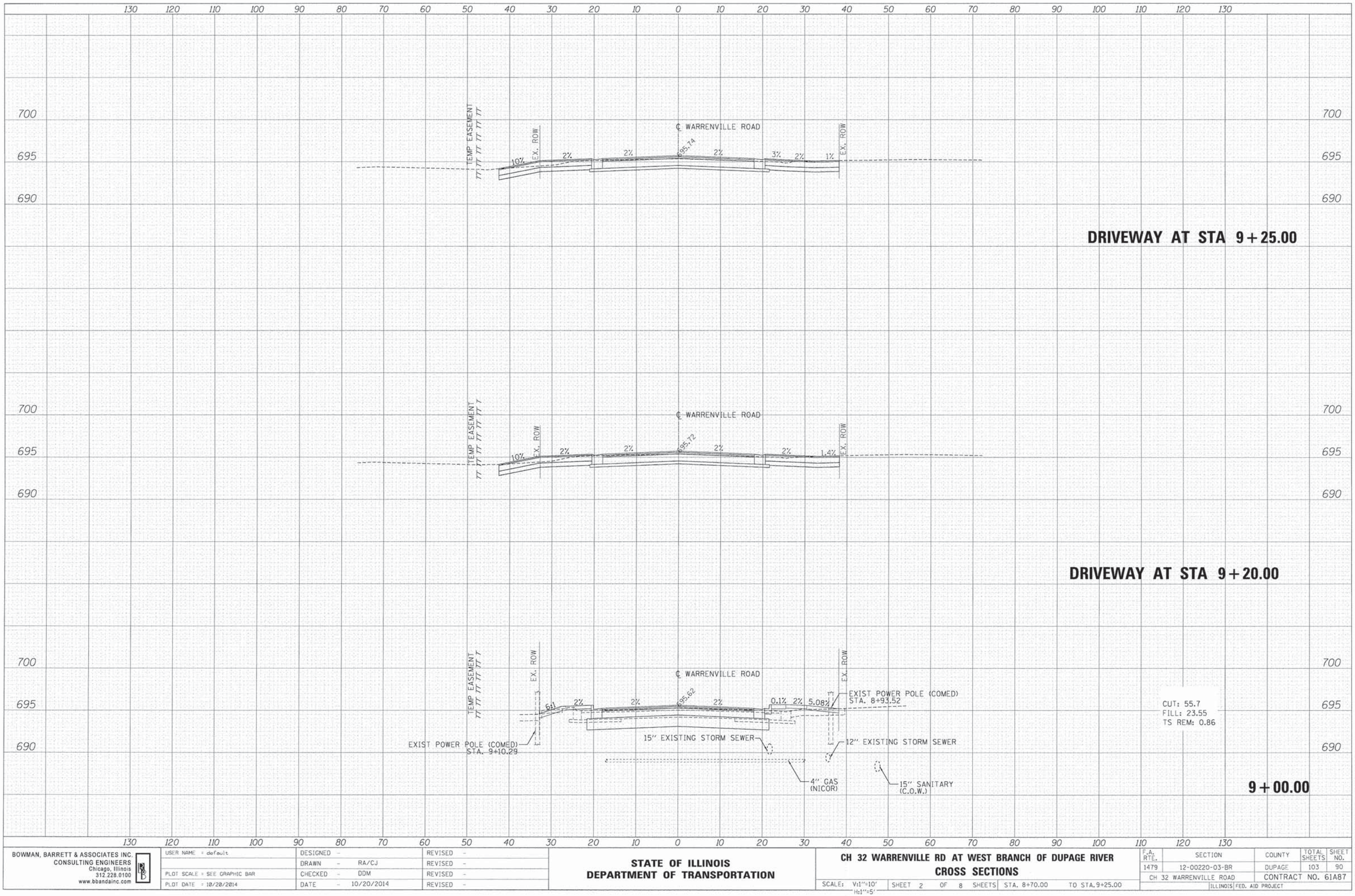
USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA/CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 1 OF 8 SHEETS | STA. 8+00.00 TO STA.9+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	89
	CH 32 WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			



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

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

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA/CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

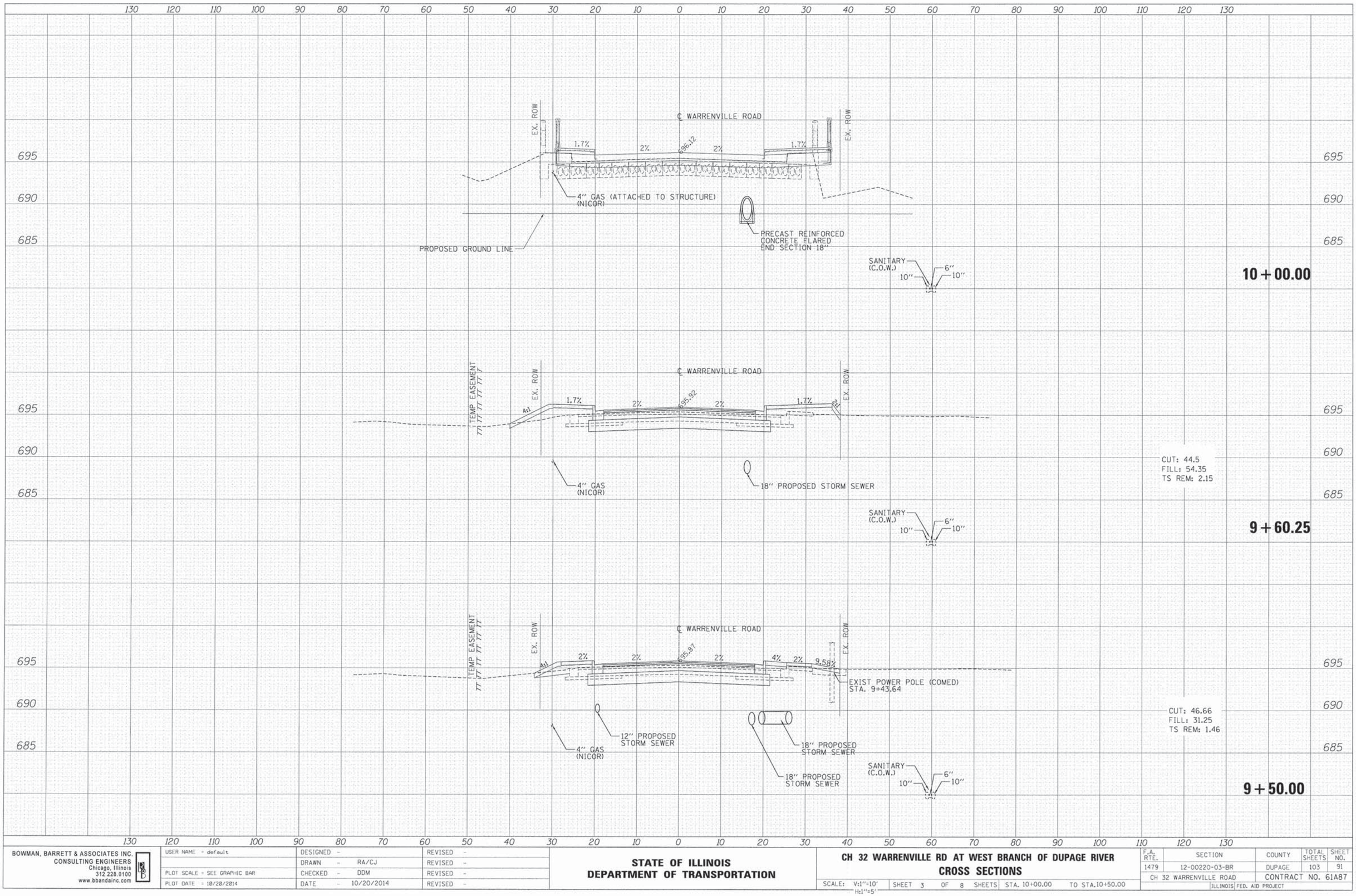
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 2 OF 8 SHEETS | STA. 8+70.00 TO STA. 9+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	90
	CH 32 WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\85_CADD\Cadd Sheets\D1216-sht-XSC.dgn



BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -
		DRAWN - RA/CJ	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

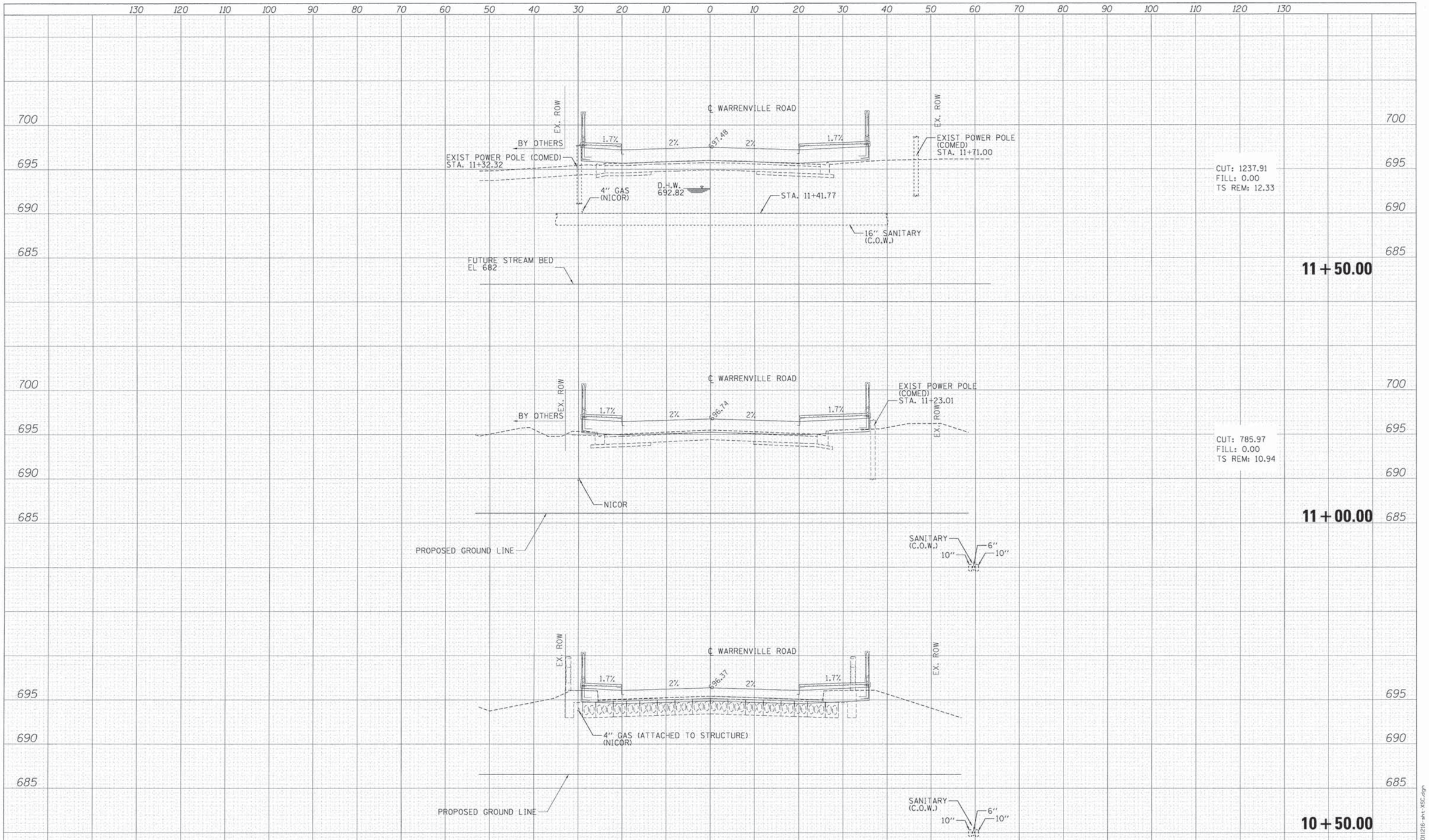
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 3 OF 8 SHEETS | STA. 10+00.00 TO STA.10+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	91
	CH 32 WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\DS_CADD\Cadd Sheets\101216-sht-XSC.dgn



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

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

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA/CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

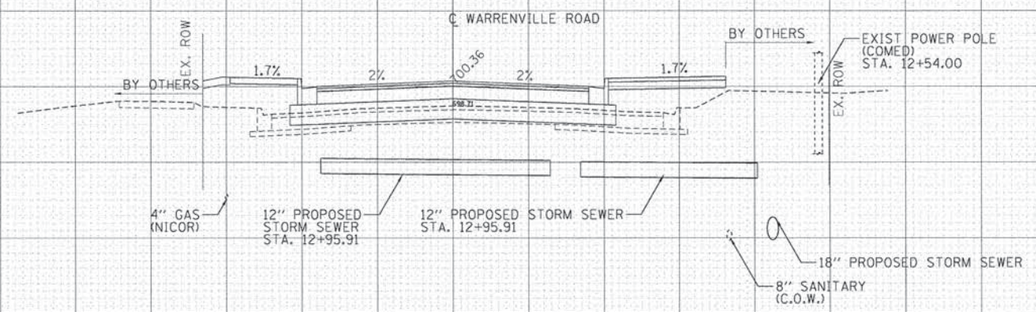
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 4 OF 8 SHEETS | STA. 10+50.00 TO STA.11+50.00

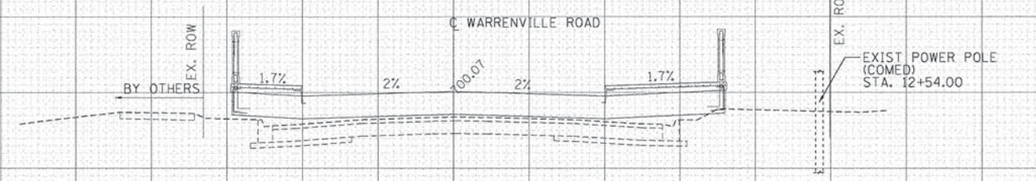
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	92
	CH 32 WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\12161\05_CADD\Cadd Sheets\012161-sht-XSC.dgn

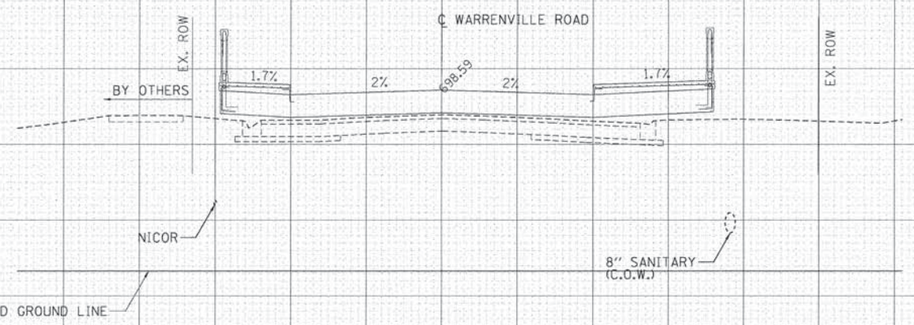


CUT: 12.71
FILL: 78.45
TS REM: 4.03

12+58.25



12+50.00



CUT: 855.10
FILL: 0.00
TS REM: 13.31

12+00.00

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

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -	REVISED -
	DRAWN - RA/CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

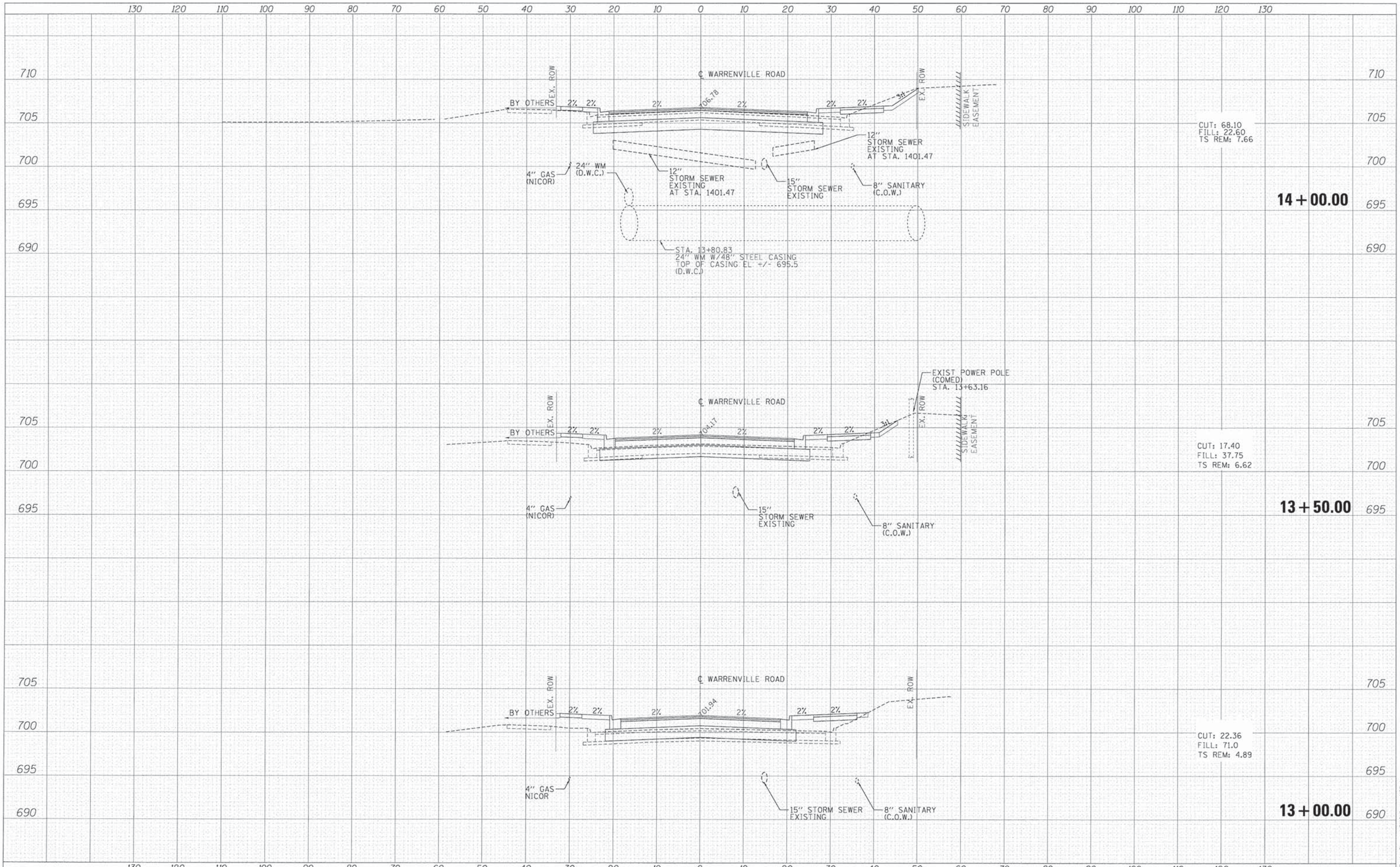
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 5 OF 8 SHEETS | STA. 12+00.00 TO STA.12+58.25

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	93
	CH 32 WARRENVILLE ROAD	CONTRACT NO. 61A87		
	ILLINOIS FED. AID PROJECT			

S:\1216\05_CADD\Cadd Sheets\01216-sht-XSC.dgn



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

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

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA/CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

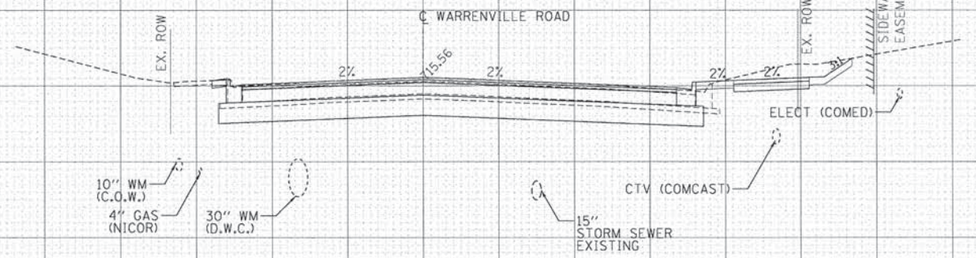
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 6 OF 8 SHEETS | STA. 13+00.00 | TO STA.14+00.00

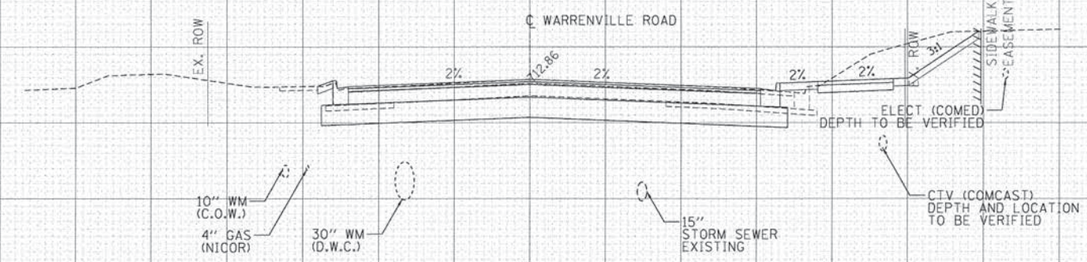
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	94
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

S:\1216\VDS_CADD\Cadd Sheets\01216-sht-XSC.dgn



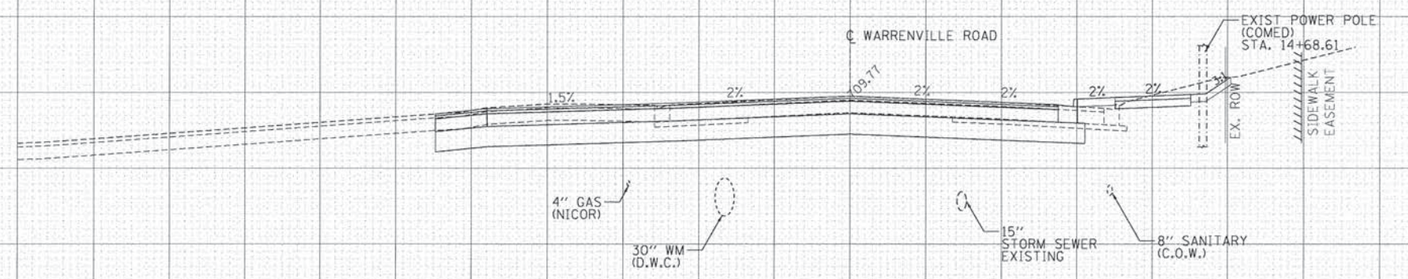
CUT: 107.50
FILL: 5.60
TS REM: 6.95

15 + 50.00



CUT: 120.9
FILL: 7.60
TS REM: 8.15

15 + 00.00



CUT: 132.40
FILL: 19.30
TS REM: 4.92

14 + 50.00

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -
		DRAWN - RA/CJ	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/20/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

SCALE: V:1"=10' H:1"=5' | SHEET 7 OF 8 SHEETS | STA. 14+50.00 TO STA.15+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	95
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

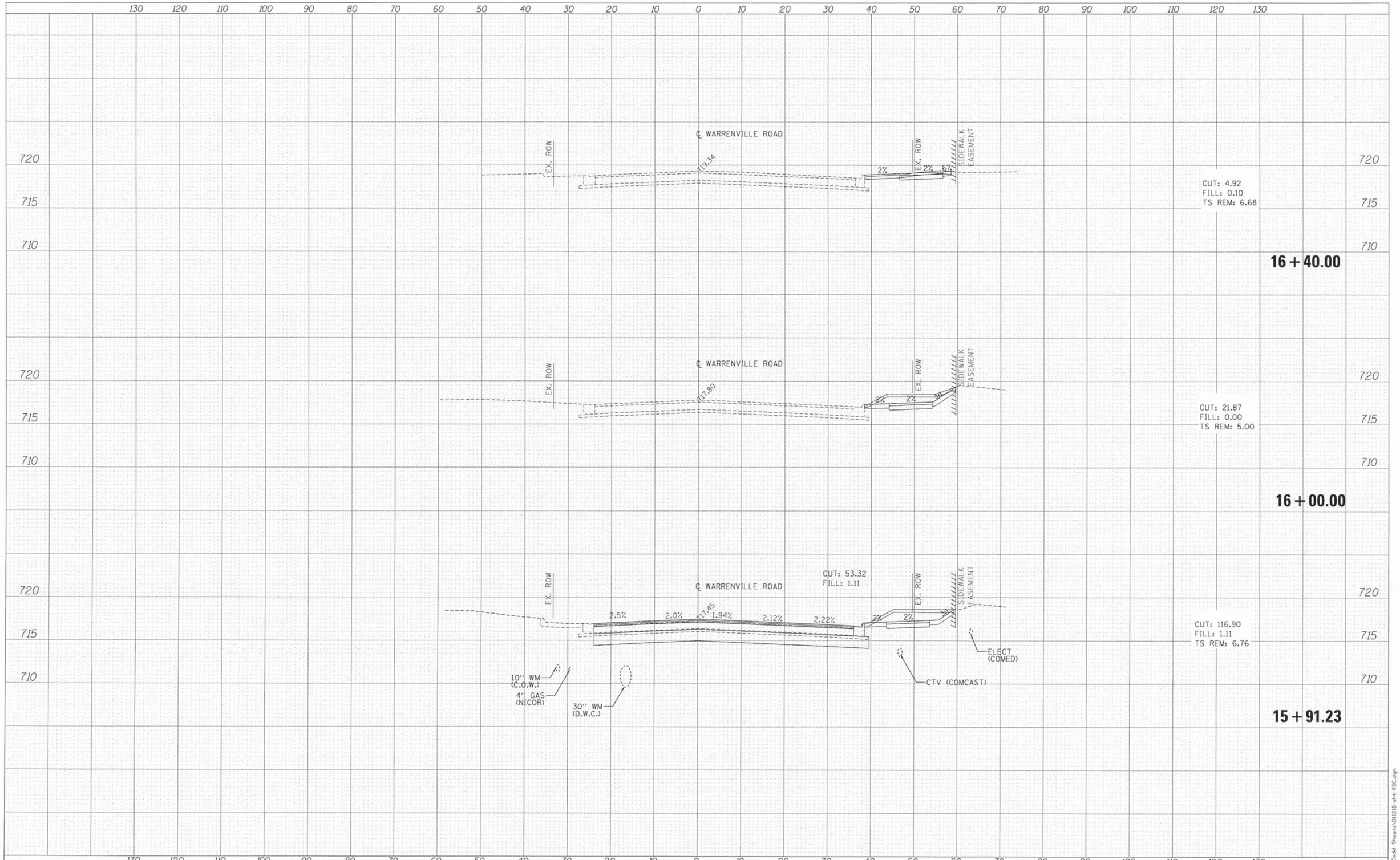
ORIGINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — NO. — BY — DATE — TEMPLATE — AREAS — AREAS CHECKED

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

S:\1216\85_CADD\Cadd Sheets\101216-sht-XSC.dgn

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

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



USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA/CJ	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/20/2014	DATE -	10/20/2014	REVISED -

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

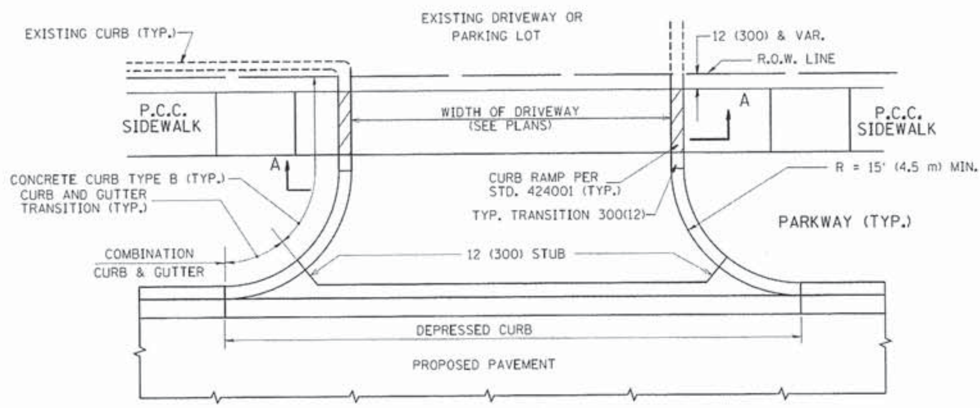
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
CROSS SECTIONS

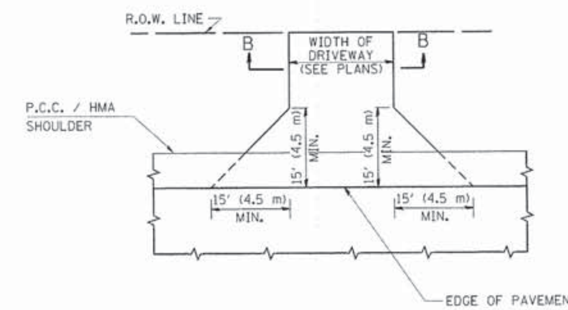
SCALE: V:1"=10' H:1"=5' | SHEET 8 OF 8 SHEETS | STA. 15+91.23 | TO STA.16+40.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	96
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

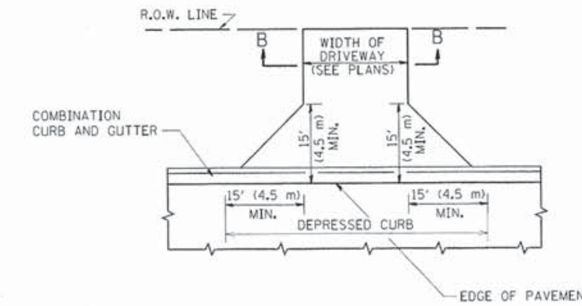
S:\1216\DB\CADD\Cadd Sheets\01216-sht-XSC.dgn



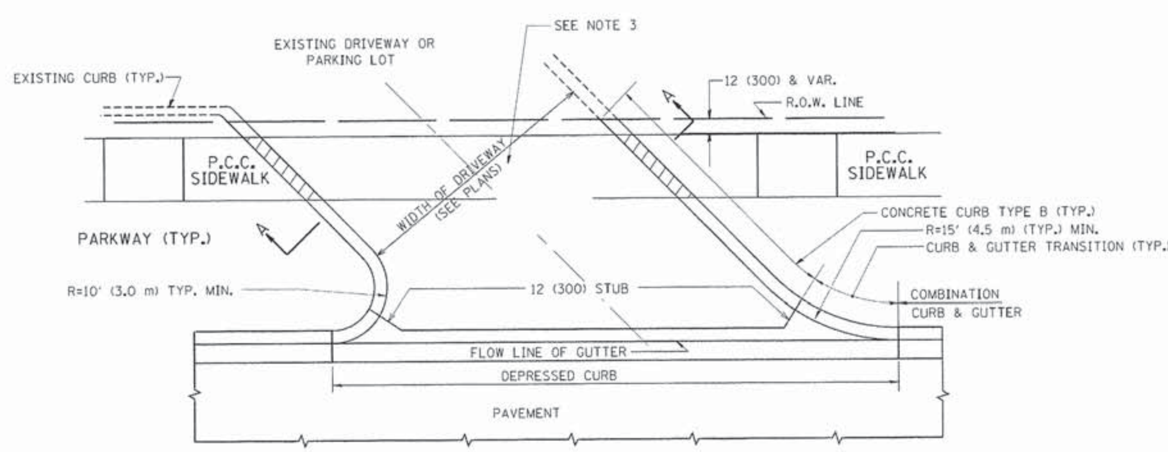
WITH CONCRETE CURB, TYPE B



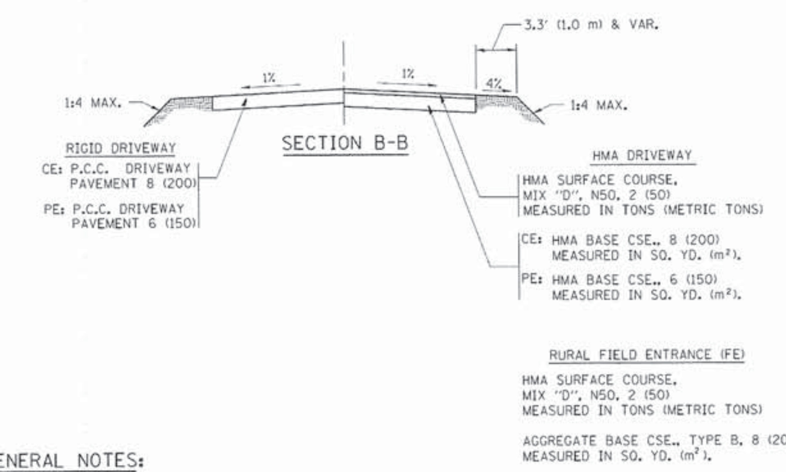
ADJACENT TO P.C.C. / HMA SHOULDER

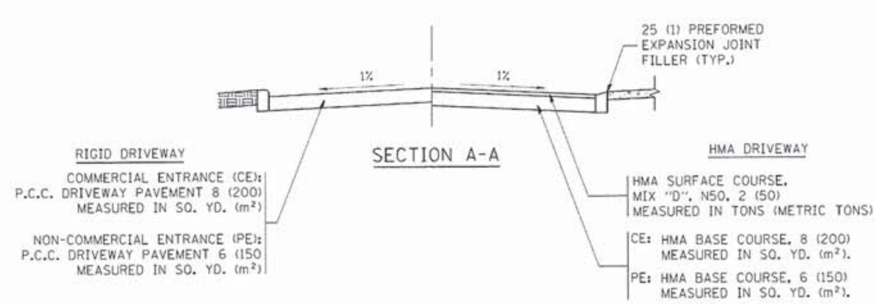


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





GENERAL NOTES:

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

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

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

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

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

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01
P. LoFLEUR	04-15-03
R. BORO	01-01-07
R. BORO	06-11-08
R. BORO	09-06-11

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

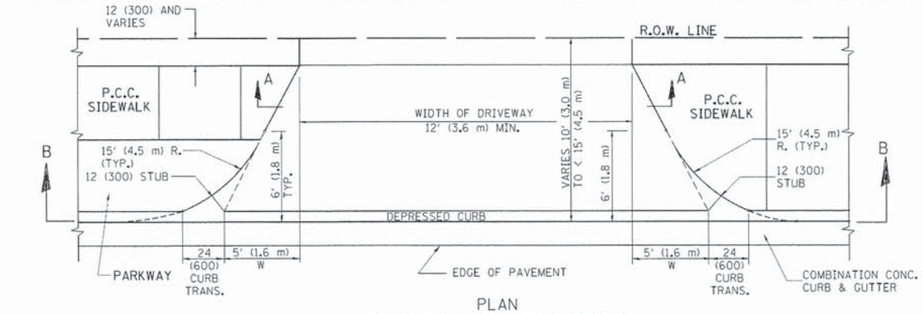
SCALE: VERT. NONE HORIZ.

DRAWN BY

CHECKED BY

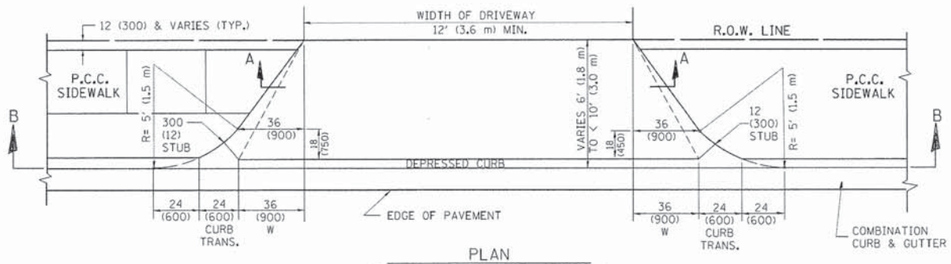
BD0156-07 (BD-01)

PLOT DATE = 9/6/2011
FILE NAME =
PLOT SCALE =
USER NAME =



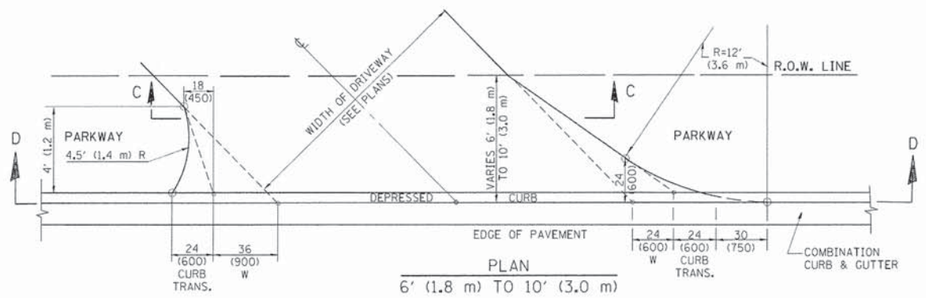
PLAN

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



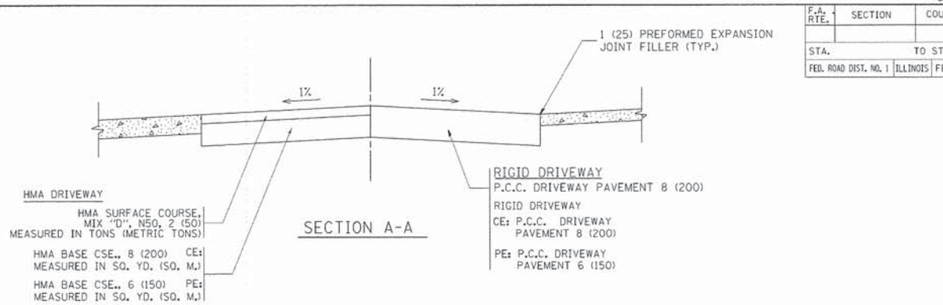
PLAN

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

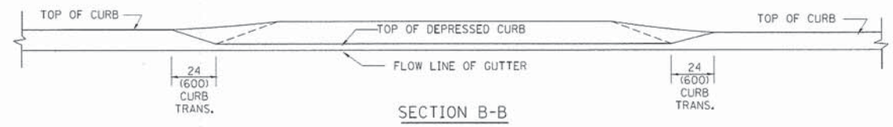


PLAN

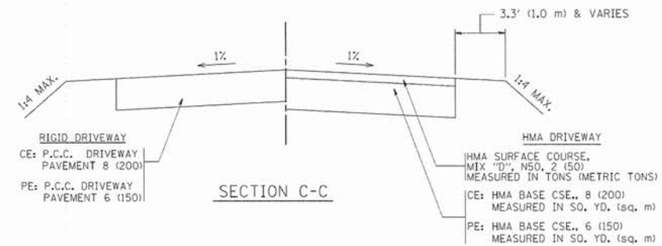
6' (1.8 m) TO 10' (3.0 m)



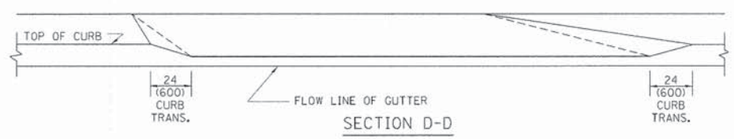
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

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

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

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

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

REVISIONS	
NAME	DATE
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/96
A. ABBAS	03/21/97
T. HOLTZ	04/08/97
M. GOMEZ	04/06/01
P. LoFLEUR	04/15/03
R. BORO	01/01/07
R. BORO	09/06/11

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

SCALE: VERT. NONE HORIZ.

DRAWN BY

CHECKED BY

BD400-02 (BD-02)

CONTRACT NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLOT DATE = 9/6/2011
FILE NAME = d:\bba-work\projects\layout\BD80264\bd02.dgn
PLOT SCALE = 4.0000 ' / in.
USER NAME = layne

S:\1216\05_CADD\Cadd Sheets\D01216-sht-STD details.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/21/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
IDOT DISTRICT 1 STANDARDS

SCALE: NA | SHEET 2 OF 6 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	98
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS	FED. AID PROJECT		

CONTRACT NO.

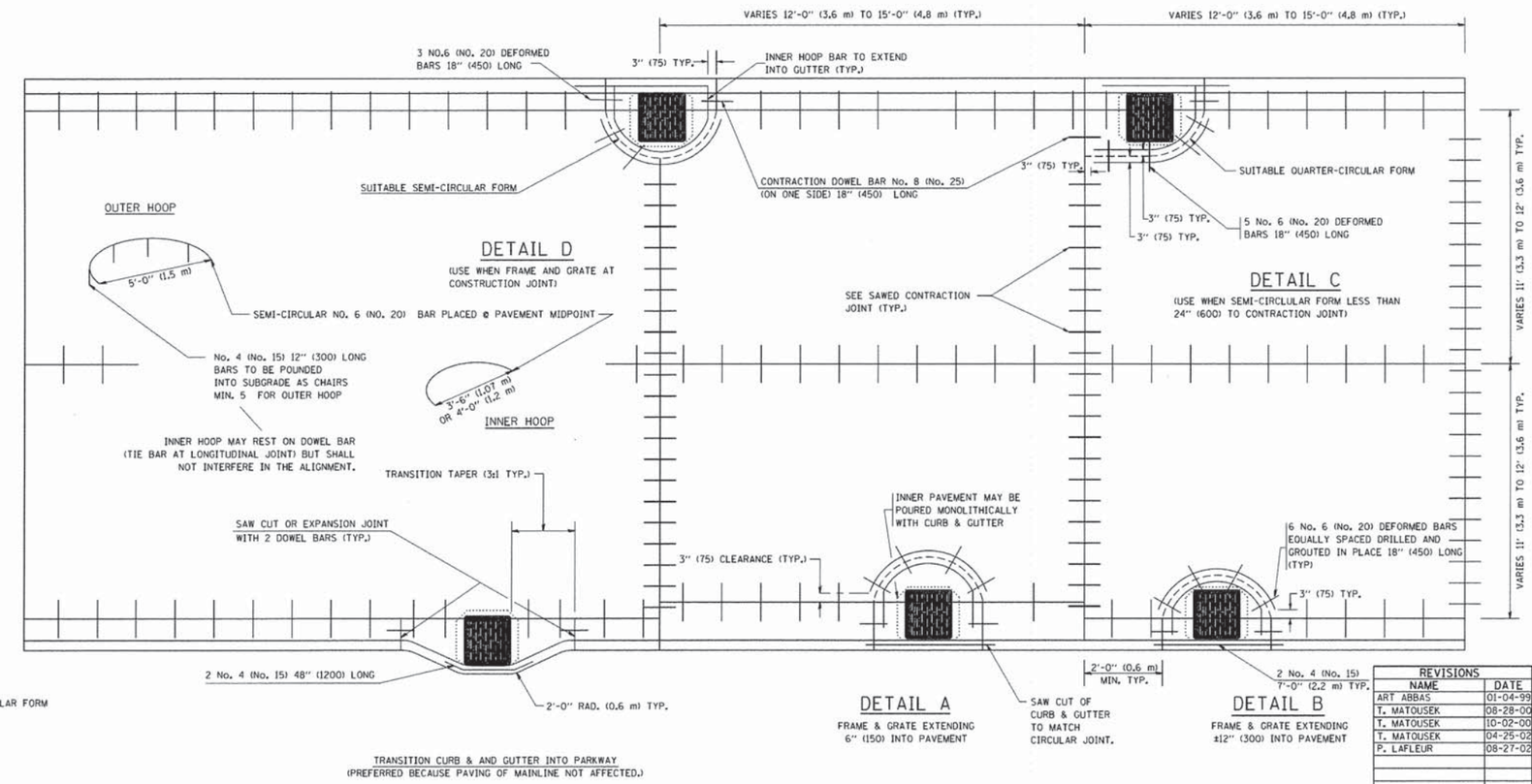
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

NOTES :

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



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS NAME	DATE
ART ABBAS	01-04-99
T. MATOUSEK	08-28-00
T. MATOUSEK	10-02-00
T. MATOUSEK	04-25-02
P. LAFLEUR	08-27-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER

SCALE: VERT. NONE HORIZ.

DRAWN BY: TOM MATOUSEK
CHECKED BY: A. ABBAS

BD-48

PLOT DATE = 8/14/2007
FILE NAME = X:\district\bd48.dgn
PLOT SCALE = 4.0000 '/ IN.
USER NAME = bwarnick

S:\1216\85.CADD\Cadd Sheets\1011216-sht-STD details.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

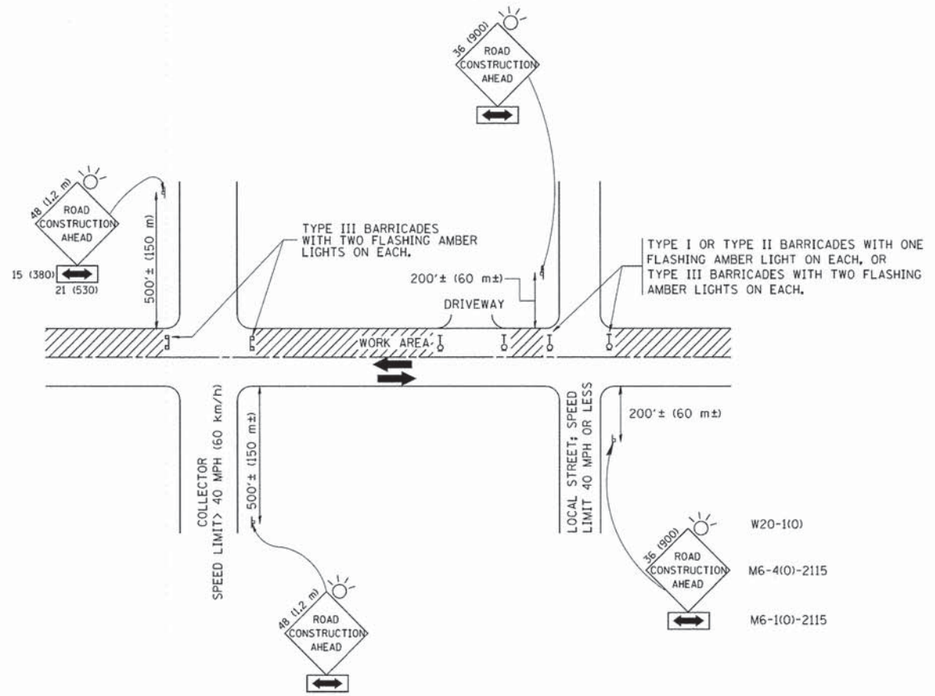
USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/21/2014	DATE -	10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
IDOT DISTRICT 1 STANDARDS

SCALE: NA | SHEET 3 OF 6 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	99
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = W:\dststd\22x34\tc10.dgn	USER NAME = gaglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

	USER NAME = default	DESIGNED -	REVISED -
		DRAWN - RA	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -
	PLOT DATE = 10/21/2014	DATE - 10/20/2014	REVISED -

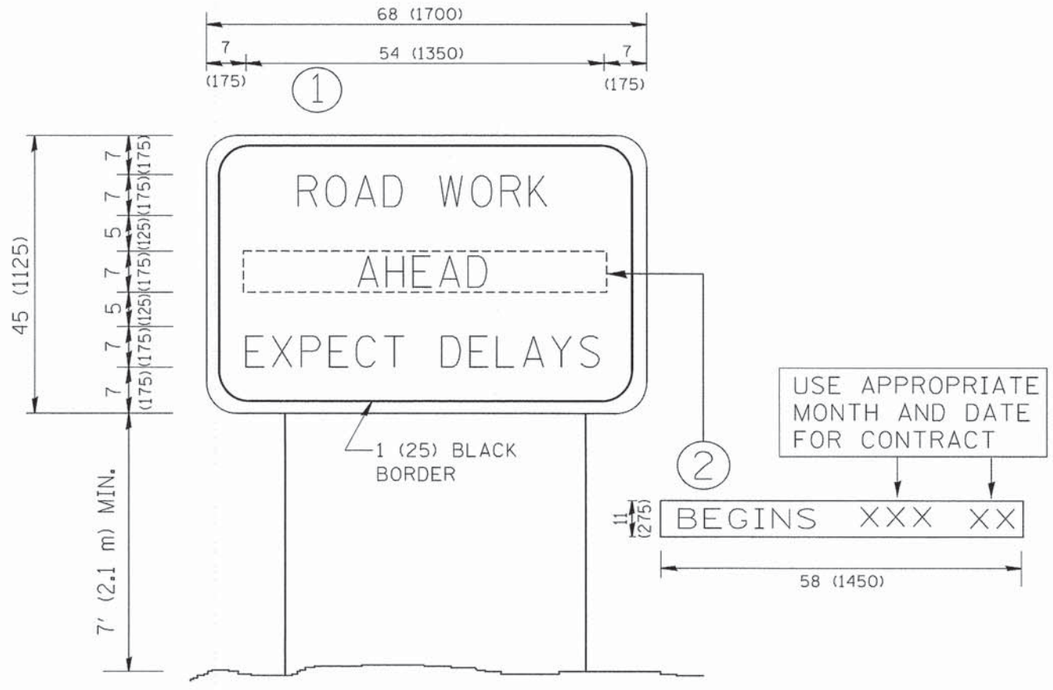
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
IDOT DISTRICT 1 STANDARDS

SCALE: NA | SHEET 4 OF 6 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	100
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS	FED. AID PROJECT		

S:\1216\05_CADD\Cadd Sheets\01216-sht-STD details.dgn



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:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-22	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME = default	DESIGNED -		REVISED -
	DRAWN -	RA	REVISED -
PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	DDM	REVISED -
PLOT DATE = 10/21/2014	DATE -	10/20/2014	REVISED -

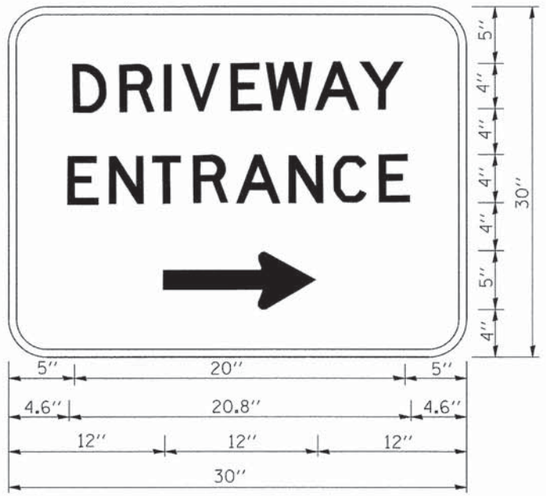
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
IDOT DISTRICT 1 STANDARDS

SCALE: NA | SHEET 5 OF 6 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	101
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
ILLINOIS	FED. AID PROJECT			

S:\1216\MS_CAD\Cadd Sheets\011216-sht-STD details.dgn



3.0'' RADIUS, 0.5'' BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0'' x 5.0''

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

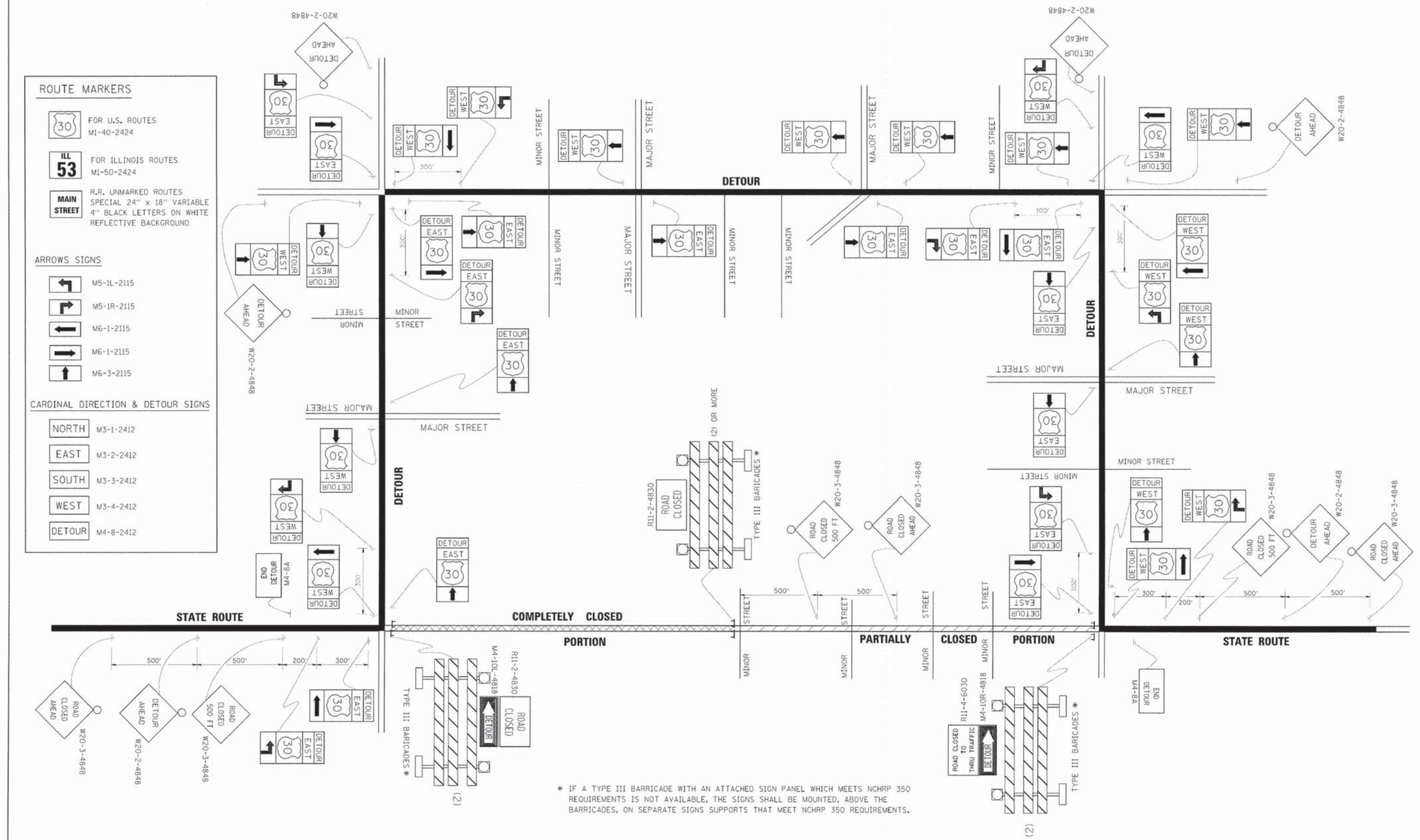
FILE NAME = W:\diststd\22x34\tc26.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING
		DRAWN -	REVISED -		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -		
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-26	CONTRACT NO.		
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT				

S:\1216\05_CADD\Cadd Sheets\011216-sht-STD details.dgn

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER IDOT DISTRICT 1 STANDARDS
		DRAWN - RA	REVISED -		
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED - DDM	REVISED -		
	PLOT DATE = 10/21/2014	DATE - 10/20/2014	REVISED -		SCALE: NA | SHEET 6 OF 6 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	102
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS | FED. AID PROJECT			



FILE NAME = c:\pw_work\PW1DOT\DRIVAKOSGN\d2188315\tc21.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED 10-18-02
		DRAWN -	REVISED R. BORO 09-14-09
	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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-21	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

	USER NAME = default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = SEE GRAPHIC BAR	CHECKED -	REVISED -
	PLOT DATE = 10/21/2014	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 32 WARRENVILLE RD AT WEST BRANCH OF DUPAGE RIVER
IDOT DISTRICT 1 STANDARDS

SCALE: NA | SHEET 7 OF 7 SHEETS | STA. NA | TO STA. NA

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	12-00220-03-BR	DUPAGE	103	103
CH 32 WARRENVILLE ROAD		CONTRACT NO. 61A87		
	ILLINOIS	FED. AID PROJECT		

S:\1216\05.CADD\Cadd Sheets\011216-sht-STD details.dgn