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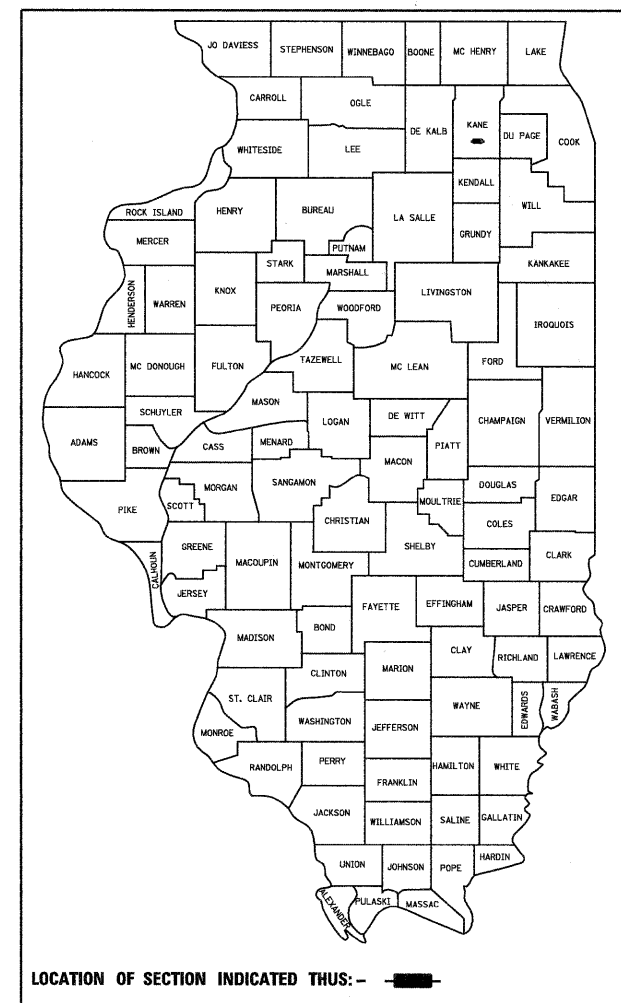
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**(MS 2038) DOWNER PLACE OVER FOX RIVER
BRIDGE RECONSTRUCTION
SECTION 07-00264-00-BR
PROJECT NO: BROS-00D1-(768)
STRUCTURE NO: 045-6005, 045-6006
CITY OF AURORA
KANE COUNTY
C-91-220-07**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	63620	

D-91-220-07



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OF THE STATE OF ILLINOIS**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED June 29, 2011
Kenneth Schmitt
CITY OF AURORA CL.

PASSED July 28, 2011
Christopher Hart
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW July 28, 2011
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

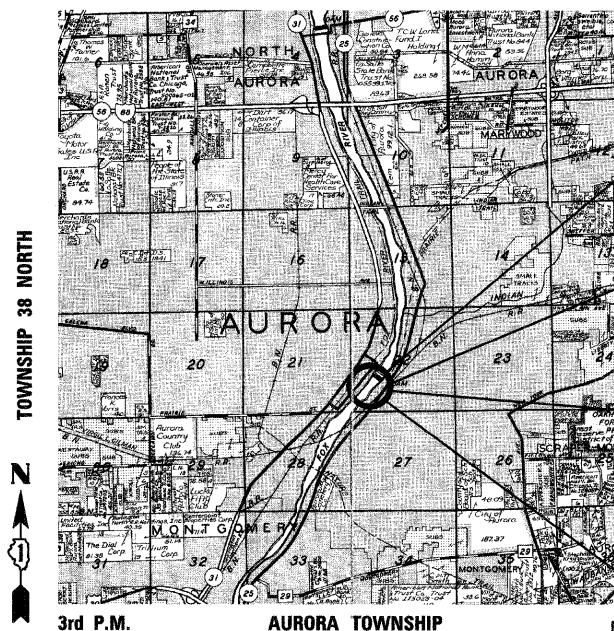
Joseph P. Guerriero 6/27/11
JOSEPH P. GUERRIERO, P.E.
EXPIRES: 11-30-2011
PERTAINS TO SHEETS: 1-45 & 146-164

STRUCTURE INFORMATION:

EXISTING SN 045-6005
CONSTRUCTED CIRCA 1910 AS A THREE SPAN CAST-IN-PLACE CONCRETE CLOSED SPANDREL ARCH WITH AN OUT-TO-OUT WIDTH OF 63'-11 1/2" AND A TOTAL LENGTH OF 171'-1 1/2". THE EXISTING ARCH IS TO BE REMOVED AND REPLACED WITH A PPC DECK BEAM SUPERSTRUCTURE ON BUILT UP PIERS AND ABUTMENTS. THE EXISTING FOUNDATIONS WILL BE REUSED. STRUCTURE TO BE REMOVED AS SHOWN WITH NO SALVAGE.

EXISTING SN 045-6006
CONSTRUCTED CIRCA 1910 AS A THREE SPAN CAST-IN-PLACE CONCRETE CLOSED SPANDREL ARCH WITH AN OUT-TO-OUT WIDTH OF 63'-8" AND A TOTAL LENGTH OF 172'-11". THE EXISTING ARCH IS TO BE REMOVED AND REPLACED WITH A PPC DECK BEAM SUPERSTRUCTURE ON BUILT UP PIERS AND ABUTMENTS. THE EXISTING FOUNDATIONS WILL BE REUSED. STRUCTURE TO BE REMOVED AS SHOWN WITH NO SALVAGE.

**PROJECT LOCATION MAP
RANGE 8 EAST**



PROJECT IS LOCATED IN THE
CITY OF AURORA

BEGIN PROJECT
STA. 106 + 56.48

PROJECT
LOCATION

BRIDGE RECONSTRUCTION
SN: 045-6005
STA. 108 + 77.54 TO STA. 110 + 50.46
L = 172.9' FT
SN: 045-6006
STA. 115 + 04.74 TO STA. 116 + 75.87
L = 171.1' FT

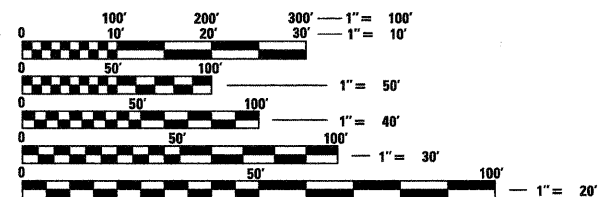
END PROJECT
STA. 119 + 78.48

PROFESSIONAL ENGINEER'S SIGN & SEAL

Philip J. Keranen 6/27/2011
PHILIP J. KERANEN, P.E.
EXPIRES: 11-30-2011
PERTAINS TO SHEETS: 48-52

STRUCTURAL ENGINEER'S SIGN & SEAL

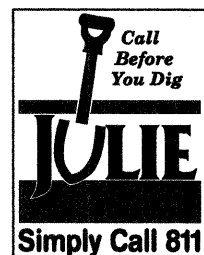
Robert G. Davies 6/27/2011
ROBERT G. DAVIES, S.E., P.E.
EXPIRES: 11-30-2012
PERTAINS TO SHEETS: 46, 47, 53-145



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.



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ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322



PROJECT ENGINEER: MICHAEL G. HARDING, P.E.
PROJECT MANAGER: ROBERT G. DAVIES, S.E., P.E.
CONTRACT NO. 63620

TRAFFIC DATA

ADT: DOWNER PLACE 7,900 ADT (2008) 9,000 ADT (2030)

POSTED SPEED 30 MPH (EXISTING) 30 MPH (PROPOSED)
DESIGN SPEED 30 MPH (PROPOSED)

DESIGN DESIGNATION FUNCTIONAL CLASSIFICATION - LOCAL STREET (URBAN)

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL

COMPANY NAME: #COMPANY-NAME#
PROJECT CONTACT: Michael G. Harding
DATE PLOTTED: 6/27/2011 5:00:00 PM
FILE NAME: 86090472-CVR-001
PLOT DRIVER: pdt-dt
PEN TABLE: STANDARD-TRANS.TBL

GENERAL NOTES

ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2007.

ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.

PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE ENGINEER BEFORE DOING ANY WORK. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.

FORTY EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.

THE CONTRACTOR SHALL CONTACT THE CITY OF AURORA AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.

THE GENERAL CONTRACTOR SHALL CONTACT THE ARMY CORPS OF ENGINEERS AND THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT TWO (2) WEEKS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL PROTECT AND REPAIR ADJACENT PROPERTIES AND EXISTING BUILDINGS ACCORDING TO SECTION 107 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISION FOR PROTECTION OF EXISTING BUILDINGS AND STRUCTURES (SPECIAL).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND BITUMINOUS TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.

THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.1 GALLONS / SQ YD.

SAW CUTTING OF PAVEMENTS, SIDEWALK, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.

REMOVAL OF EXISTING COMBINATION CURB AND GUTTER, REGARDLESS OF CURB AND GUTTER TYPE, SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL".

THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

THE RESIDENT ENGINEER SHALL CONTACT THE QA MATERIALS TESTING CONSULTANT 48 HOURS IN ADVANCE OF PLACING MATERIALS.

THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION, UNSUITABLE AND UNUSABLE MATERIALS OFFSITE AND AT AN APPROVED LOCATION IN A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. THIS WORK IS CONSIDERED INCLUDED IN THE COST OF THE REMOVAL ITEMS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY REQUIRED INSPECTIONS WITH THE CITY OF AURORA.

SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS THE AGENT OF THE CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 107.07.

THE ENGINEER AND CITY ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSTING "FRESH OIL" SIGNS (48"x48" MINIMUM) AS NEEDED FOR THE PROJECT. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SIGNS IN THE PARKWAY TWENTY-FOUR (24) HOURS PRIOR TO STARTING WORK ON EACH STREET. THE SIGNS SHALL READ "FRESH OIL, TRAVEL AT YOUR OWN RISK." THE CONTRACTOR SHALL REMOVE THE SIGNS AND REINSTALL THEM AS NEEDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS, BUSINESS OWNERS, AND THE CITY WHEN ACCESS TO THEIR BUILDING ENTRANCES WILL BE TEMPORARILY CLOSED DUE TO CONCRETE CURB AND GUTTER INSTALLATION AND SIDEWALK CONSTRUCTION. BUSINESS OR BUILDING OWNERS SHALL BE CONTACTED, IN PERSON AND WRITING, 24 HOURS PRIOR TO REMOVING THE CONCRETE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE PEDESTRIAN ACCESS TO THESE PROPERTIES (I.E. KNOCK ON DOORS WHEN ACCESS IS ABOUT TO BE CLOSED).

GENERAL NOTES (CONTINUED)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AIR AND HANDWORK WITH SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC. WITHIN 24 HOURS OF PLACING PRIME COAT AND THE LAYING OF HMA, THE CONTRACTOR SHALL SWEEP THE PAVEMENT AND REMOVE STANDING WATER, EARTH, WEEDS, LEAVES, DIRT, CONSTRUCTION DEBRIS, AND ALL LOOSE MATERIAL.

CONSTRUCTION WORK MAY BE PERFORMED MONDAY THRU FRIDAY DURING THE HOURS OF 7:00 A.M. TO 9:00 P.M. AND ON WEEKENDS FROM 8:00 A.M. TO 6:00 P.M. NO WORK MAY BE PERFORMED PRIOR OR BEYOND THIS PERIOD WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY. NO COMPENSATION WILL BE PAID FOR ANY INCONVENIENCE, DELAY, OR LOSS EXPERIENCE BY THE CONTRACTOR BECAUSE OF ADJUSTMENTS TO THEIR NORMAL SCHEDULE.

THE CONTRACTOR MAY DO A FULL CLOSURE OF DOWNER PLACE BETWEEN BROADWAY AND RIVER STREET FOR A MAXIMUM OF FOUR (4) TIMES FOR DELIVERY AND SETTING OF BEAMS AT NO ADDITIONAL COST TO THE CONTRACT. THE CLOSURES MAY BE BETWEEN FRIDAY AT 1:00 PM THROUGH SUNDAY AT 7:00 PM. CONTRACTOR SHALL COORDINATE CLOSURES WITH THE CITY OF AURORA AND BUSINESS OWNERS 48 HOURS PRIOR TO THE CLOSURES. THESE CLOSURES ARE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THE CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, VALVE VAULT OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: "WATER", "STORM", OR "SANITARY".

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

OFFSETS FOR DRAINAGE STRUCTURES IN THE CURB ARE TO EDGE OF PAVEMENT. ALL OTHER OFFSETS FOR DRAINAGE STRUCTURES ARE TO THE CENTER OF THE STRUCTURE UNLESS OTHERWISE NOTED.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ANY ITEMS DAMAGED DURING REMOVAL OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, LIDS, OR BOXES AND/OR STOCKPILING THEM ON THE JOB SITE FOR DELIVERY TO THE CITY OF AURORA, AS APPLICABLE SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE CITY.

THE CONTRACTOR SHALL OBTAIN A WATER METER FROM THE CITY OF AURORA MAINTENANCE PUMPING STATION TO USE WATER FOR DUST CONTROL, MIXING MORTAR, ETC. THE CONTRACTOR WILL PAY FOR THE QUANTITY OF WATER USED AND WILL NOT BE REIMBURSED FOR THE USE OF CITY WATER.

ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 8" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED. THE RINGS SHALL BE INCLUDED IN THE COST OF WORK BEING PERFORMED.

THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT MIX ASPHALT MIXTURES ARE TO BE PLACED.

WHERE PROPOSED WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED OR BARRELS TO BE DOUBLE WEIGHTED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF EIGHT (8) SANDBAGS PER BARRICADE.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY PROPERTY.

THE CONTRACTOR SHALL ENSURE THAT ALL STORM SEWER MANHOLES, SANITARY SEWER MANHOLES, WATERMAIN VALVES, AND FIRE HYDRANTS REMAIN READILY ACCESSIBLE TO THE CITY AT ALL TIMES.

THE WORK UNDER THIS CONTRACT SHALL CONFORM TO ALL REGULATIONS GIVEN IN THE ARMY CORPS OF ENGINEERS PERMIT ISSUED FOR THE PROJECT AND THE IDNR PERMIT ISSUED FOR THE PROJECT.

THE CONTRACTOR SHALL NOT ALLOW THE EXISTING FILL OR CONCRETE ARCH MATERIAL OR OTHER CONSTRUCTION DEBRIS TO FALL INTO THE RIVER DURING DEMOLITION OR CONSTRUCTION.

EXISTING SIGNS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED, STORED, AND RE-INSTALLED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A LOG OF EXISTING SIGNS TO THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)"

POROUS GRANULAR EMBANKMENT SUBGRADE AND ADDITIONAL REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL NOT INCLUDED IN THE EARTHWORK SCHEDULE HAVE BEEN ADDED FOR USE IF UNSUITABLE MATERIAL IS ENCOUNTERED IN THE FIELD, AS DETERMINED BY THE ENGINEER. IF UNSUITABLE AND/OR UNSTABLE MATERIALS IS NOT ENCOUNTERED, THEN THE QUANTITIES SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE TO THE CONTRACTOR.

CONTRACTOR TO COORDINATE CLOSURES OF HOYT PLACE WITH WAUBONSEE COMMUNITY COLLEGE (AL BOTA - 630-675-1767). CLOSURES MAY BE BETWEEN MAY 13-JUNE 16 OR AUGUST 1-AUGUST 22. HOYT PLACE MAY BE CLOSED FOR A MAXIMUM OF THREE (3) WEEKS COINCIDING WITH SEMESTER BREAKS.

COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: Michael G. Harding
 City of Aurora
 DATE PLOTTED: 7/27/2011 10:09 AM
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 PLOT DRIVER: pdfplot
 PEN TABLE: STANDARD-TRANS.TB



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PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE = 7/27/2011	DATE - 7/27/11	REVISED -

CITY OF AURORA

**GENERAL NOTES AND LIST OF STATE STANDARDS
 DOWNER PLACE**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	2
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GENERAL NOTES (CONTINUED)

SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.3 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSUITABLE MATERIAL.

THE CITY OF AURORA MAINTENANCE DEPARTMENT WILL REMOVE BENCHES, PARKING METERS, HISTORIC WALKING TOUR SIGNS, AND FLOWER BOXES ON THE BRIDGES PRIOR TO CONSTRUCTION.

SANITARY SEWER CONSTRUCTION

ALL SANITARY SEWER CONSTRUCTIONS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTIONS IN ILLINOIS", LATEST EDITION, AND REVISIONS THERETO, THE NOTES ON THE PLANS AND IN ACCORDANCE WITH CODES AND ORDINANCES OF FOX METRO WATER RECLAMATION DISTRICT AND THE CITY OF AURORA.

ALL SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE "FOX METRO WATER RECLAMATION DISTRICT SEWER USE ORDINANCE NO. 829, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", AND "77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE", LATEST EDITION.

FINAL APPROVED SET OF PLANS AND SPECIFICATIONS MUST BE KEPT ON THE JOB SITE. FAILURE TO COMPLY WITH THIS PROVISION MAY RESULT IN A FINE AND/OR BE CONSIDERED CAUSE TO STOP THE JOB.

THE SANITARY SEWER CONTRACTORS FOR ALL SANITARY SEWER MAIN EXTENSION PROJECTS SHALL NOTIFY THE FOX METRO WATER RECLAMATION DISTRICT'S ENGINEERING DEPARTMENT TWO (2) WORKING DAYS PRIOR TO START OF WORK. NOTIFICATION SHALL BE DONE VIA TELEPHONE AT (630) 301-6882, AND FAX AT (630) 892-4394 TO THE ENGINEERING DEPARTMENT. FOR SERVICE CONNECTIONS, CALL TWENTY-FOUR (24) HOURS IN ADVANCE TO SCHEDULE AN INSPECTION AT (630) 301-6811.

TO PREVENT ANY POSSIBLE INFILTRATION OR INFLOW FROM ENTERING THE EXISTING DOWNSTREAM SANITARY SYSTEM, A FACTORY-MADE PLUG SHALL BE PLACED IN THE MANHOLE BY THE CONTRACTOR, AS INDICATED ON THE FINAL APPROVED PLANS. THE PLACEMENT OF THE PLUG(S) SHOULD NOT INTERRUPT THE SERVICE OF ANY USER. THIS PLUG IS TO BE REMOVED ONLY UPON APPROVAL BY THE ENGINEERING DEPARTMENT, AND ONLY AFTER ANY ACCUMULATED WATER AND/OR CONSTRUCTION DRAINAGE HAS BEEN PROPERLY REMOVED. UNDER NO CIRCUMSTANCES IS OVERLAND SURFACE DRAINAGE ALLOWED TO DRAIN INTO THE EXISTING SANITARY SYSTEM.

ALL SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". IN ADDITION, ALL MANHOLES SHALL BE VACUUM TESTED (MANHOLE TESTING WILL BE IN ACCORDANCE WITH ASTM-1244-93 OR IN ACCORDANCE WITH FOX METRO W.R.D. REQUIREMENTS). IN CASE OF TESTING SPECIFICATION CONFLICT, WHERE DEEPER MANHOLES ARE CONSTRUCTED, THE MORE STRINGENT REQUIREMENT WILL APPLY.

WHEN CONNECTING TO AN EXISTING SANITARY MAIN WHEN A TEE OR WYE IS NOT PROVIDED, AN "INSERTA TEE" FITTING MUST BE INSTALLED. THE MINIMUM DISTANCE BETWEEN FITTINGS IS 4 FEET CENTER TO CENTER. DISRUPTION OF ANY EXISTING SANITARY MAIN BY BREAKING OR CUTTING IN A WYE/TEE IS PROHIBITED UNLESS THE EXISTING MAIN IS CRACKED OR BROKEN AT THE POINT OF CONNECTION. THE ANGLE OF ANY NEW CONNECTION SHALL NOT EXCEED 1/1 OR 45 DEGREES.

"ADAPTOR-SEAL", "INFI-SHIELD", "CANUSA (WRAPID SEAL)", "FLEXRIB" OR APPROVED EQUAL CHIMNEY SEALS SHALL BE INSTALLED ON ALL MANHOLES AND GREASE TRAPS. NO UNAPPROVED SEAL SHALL BE INSTALLED IN THE DISTRICT.

ONLY PVC TRANSITION FITTINGS SHALL BE USED IN ALL NEW CONSTRUCTION WHEN JOINING PVC PIPES WHICH ARE DAMAGED DURING CONSTRUCTION OR HAVE DIFFERENT OUTSIDE DIAMETERS. REFER TO FOX METRO "MANHOLE/SEWER PIPE SPECIFICATIONS" FOR INFORMATION RELATING TO REPAIRS OF MAINS DAMAGED DURING CONSTRUCTION.

ALL EXISTING SANITARY INTERCEPTOR (MAINS 15" IN DIAMETER OR GREATER) MANHOLE FRAMES LOCATED WITHIN ANY PROPOSED DEVELOPMENT WILL BE REQUIRED TO BE ADJUSTED TO GRADE. UNDER NO CIRCUMSTANCES MAY THE AMOUNT (TWO TOTAL) OF ADJUSTING RINGS EXCEED EIGHT (8) INCHES (SEE OUR TYPE A MANHOLE DETAIL). EXTREME CARE SHOULD BE TAKEN WHEN WORKING NEAR ALL SANITARY MANHOLES.

WATER MAIN CONSTRUCTION

ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, AND REVISIONS THERETO, THESE IMPROVEMENT PLANS AND DETAILS, SPECIAL PROVISIONS AND IN ACCORDANCE WITH CODES AND ORDINANCES OF THE CITY OF AURORA

BACKFILL

PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE. DEPTH SHALL BE CALCULATED AS INVERT DEPTH TO BOTTOM OF IMPROVED SUBGRADE ELEVATION.

SIGNING AND STRIPING

SEE DISTRICT ONE DETAIL AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.

SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.

THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ALL SIGNS SHALL BE INSTALLED OR RELOCATED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE INCLUDED IN THE CONTRACT.

ALL REMOVED SIGNS SHALL BE RETURNED TO THE CITY OF AURORA

LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS.

TRAFFIC CONTROL

SEE TRAFFIC CONTROL PLANS FOR GENERAL NOTES CONCERNING TRAFFIC CONTROL AND PROTECTION.

EROSION CONTROL

SEE EROSION CONTROL PLANS FOR GENERAL NOTES CONCERNING EROSION CONTROL.

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEM
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
424001-05	CURB RAMPS FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
602501-02	VALVE VAULT TYPE A
604001-03	FRAME AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
814001-02	HANDHOLES

CONTACTS

COMED	ADAM SADKOWSKI	(630) 608-2347
NICOR	CONSTANCE LANE	(630) 388-3830
AT&T	TOM FOLLIN	(630) 573-6477
AT&T LONG DISTANCE	CARL DONAHUE	(847) 420-9115
AT&T LOCAL	BOBBY AKHTER	(630) 719-1483
COMCAST	PETE ROSA	(630) 461-7679
CITY OF AURORA	CHRIS LIROT	(630) 256-3242
CITY OF AURORA WATER AND SEWER		(630) 256-3710
CITY OF AURORA ELECTRIC		(630) 892-1415
CITY OF AURORA NON-EMERGENCY		(630) 256-5000
ARMY CORP OF ENGINEERS	KIMBERLY KUBIAK	(312) 846-5541
IDNR-OWR	GARY JEREB	(847) 608-3100
IDNR-OREP	ROBERT SCHANZLE	(217) 785-5500
KANE-DUPAGE SWCD	KELSEY MUSICH	(630) 584-7961
FOX METRO WATER RECLAMATION DISTRICT	MICHAEL FRANKINO	(630) 301-6805

STANDARD ABBREVIATIONS

B-B	- BACK TO BACK OF CURB
B.C.	- BACK OF CURB
B.O.C.	- BACK OF CURB
B.S.L.	- BUILDING SETBACK LINE
C.B.	- STORM CATCH BASIN
C.E.	- COMMONWEALTH EDISON CO.
D.E.	- DRAINAGE EASEMENT
E-E	- EDGE TO EDGE OF PAVEMENT
E.O.P.	- EDGE OF PAVEMENT
E.O.S.	- EDGE OF SHOULDER
E.P.	- EDGE OF PAVEMENT
E.S.	- EDGE OF SHOULDER
F.E.S.	- FLARED END SECTION
I.B.T.	- ILLINOIS BELL TELEPHONE CO.
L.E.	- LANDSCAPE EASEMENT
M.H.	- MANHOLE (TYPE SPECIFIED ON PLANS)
R.O.W.	- RIGHT OF WAY
T.B.F.	- TRENCH BACKFILL
T.C.	- TOP OF CURB
T.C.E.	- TEMPORARY CONSTRUCTION EASEMENT
T.O.B.	- TOP OF BERM
T.O.C.	- TOP OF CURB
U.E.	- UTILITY EASEMENT
U.O.N	- UNLESS OTHERWISE NOTED

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harshing
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CITY OF AURORA

**GENERAL NOTES AND LIST OF STATE STANDARDS
DOWNER PLACE**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	3
			CONTRACT NO. 63620	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES				URBAN	CONSTRUCTION TYPE CODE
CODE NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	0014	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	680	680	
20800150	TRENCH BACKFILL	CU YD	419	419	
21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	100	100	
28000510	INLET FILTERS	EACH	19	19	
28100109	STONE RIPRAP, CLASS A5	SQ YD	415	415	
28200200	FILTER FABRIC	SQ YD	2180	2180	
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	24	24	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1225	1225	
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	370	370	
31102712	SUBBASE GRANULAR MATERIAL, TYPE C 12"	SQ YD	72	72	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	35	35	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	970	970	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	205	205	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	100	100	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	305	305	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	1220	1220	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1340	1340	
42400800	DETECTABLE WARNINGS	SQ FT	36	36	
44000100	PAVEMENT REMOVAL	SQ YD	1585	1585	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	3600	3600	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	875	875	
44000600	SIDEWALK REMOVAL	SQ FT	2974	2974	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	27	27	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	36	36	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	54	54	
44201771	CLASS D PATCHES, TYPE IIII, 10 INCH	SQ YD	63	63	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1	
50102400	CONCRETE REMOVAL	CU YD	390.7	390.7	
50200100	STRUCTURE EXCAVATION	CU YD	660.6	660.6	
50200300	COFFERDAM EXCAVATION	CU YD	686.7	686.7	
50202901	COFFERDAM (LOCATION - 1)	EACH	1	1	
50202902	COFFERDAM (LOCATION - 2)	EACH	1	1	
50202903	COFFERDAM (LOCATION - 3)	EACH	1	1	
50202904	COFFERDAM (LOCATION - 4)	EACH	1	1	
50202905	COFFERDAM (LOCATION - 5)	EACH	1	1	
50202906	COFFERDAM (LOCATION - 6)	EACH	1	1	
50300225	CONCRETE STRUCTURES	CU YD	2150.4	2150.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	634.2	634.2	
50300260	BRIDGE DECK GROOVING	SQ YD	1774	1774	

SUMMARY OF QUANTITIES				URBAN	CONSTRUCTION TYPE CODE
CODE NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	0014	
50300300	PROTECTIVE COAT	SQ YD	2690	2690	
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	15122	15122	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUNDS	2300	2300	
50800105	REINFORCEMENT BARS	POUNDS	5220	5220	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUNDS	234560	234560	
50800515	BAR SPLICERS	EACH	1406	1406	
51500100	NAME PLATES	EACH	2	2	
* 56100900	WATER MAIN 12"	FOOT	175	175	
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	3	3	
58700300	CONCRETE SEALER	SQ FT	1212	1212	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	261	261	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	450	450	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	14	14	
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	8	8	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	21	21	
60500040	REMOVING MANHOLES	EACH	2	2	
60500105	FILLING MANHOLES	EACH	1	1	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B - 6.12	FOOT	720	720	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	20	20	
* 70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	326	326	
* 70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	3903	3903	
* 70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	191	191	
* 70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	103	103	
* 70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1959	1959	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	677	677	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	371	371	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	903	903	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2398	2398	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2541	2541	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	332	332	
* 78004110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LINE 4"	FOOT	561	561	
* 78004130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LINE 6"	FOOT	55	55	
* 78004150	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LINE 12"	FOOT	60	60	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1022	1022	
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	550	550	
* 81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	480	480	
* 81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	435	435	

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harshy
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CITY OF AURORA

SUMMARY OF QUANTITIES
DOWNER PLACE

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	4
CONTRACT NO. 63620			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE
CODE NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	001*
* 81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	850	850
* 81101000	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	1730	1730
* 81101100	CONDUIT ATTACHED TO STRUCTURE, 5" DIA., GALVANIZED STEEL	FOOT	1385	1385
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1680	1680
* 81400100	HANDHOLE	EACH	9	9
* 81400200	HEAVY-DUTY HANDHOLE	EACH	7	7
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1085	1085
* 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	4660	4660
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2205	2205
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	2
* 89502380	REMOVE EXISTING HANDHOLE	EACH	3	3
* X6120170	INSTALL WATER SERVICE COMPLETE	EACH	1	1
X0325862	CONCRETE BRIDGE RAILING	FOOT	718	718
* X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	14	14
* X0323927	MAINTENANCE OF LIGHTING SYSTEMS	EACH	2	2
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	637	637
X4230800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	SQ YD	75	75
X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	1300	1300
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	1447	1447
* X5090810	PEDESTRIAN RAIL (SPECIAL)	FOOT	4	4
* X5610712	WATER MAIN REMOVAL, 12"	FOOT	135	135
* XX008501	BARE COPPER WIRE, NO. 2/0	FOOT	660	660
* X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2
* X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5	5
X6030205	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	5
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	6255	6255
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	1520	1520
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0018002	DRAINAGE SCUPPER, DS11	EACH	3	3
Z0021904	SILICONE JOINT SEALER, 1"	FOOT	301	301
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1500	1500
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	150	150
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	302	302
* Z0056800	SANITARY SEWER 6"	FOOT	75	75
* Z0056900	SANITARY SEWER 8"	FOOT	105	105
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2
Δ Z0076600	TRAINEES	HOURL	1500	

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE
CODE NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	001*
XX008570	FURNISHING AND ERECTING PRECAST CONCRETE PANELS, STRUCTURE 1	L SUM	1	1
XX008571	FURNISHING AND ERECTING PRECAST CONCRETE PANELS, STRUCTURE 2	L SUM	1	1
XX008572	WATER MAIN ATTACHED TO STRUCTURE 12"	FOOT	340	340
* XX008573	12" VALVES IN VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2
* XX008574	LINE STOP VALVES 12" IN VALVE VAULTS, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1

*SPECIALTY ITEM
ΔCONSTRUCTION CODE 0042

HRGREEN
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
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DATE - 7/26/11

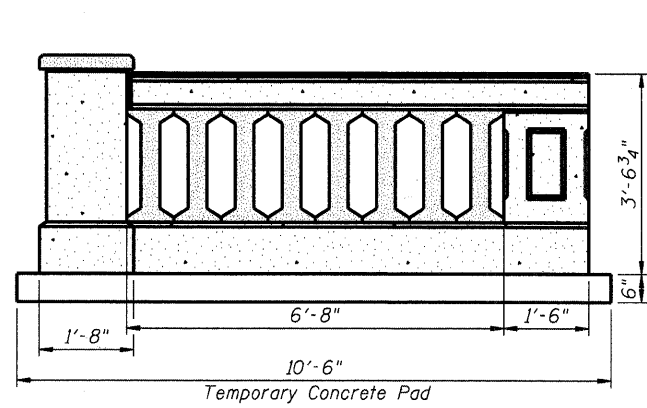
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CITY OF AURORA

SUMMARY OF QUANTITIES
DOWNER PLACE

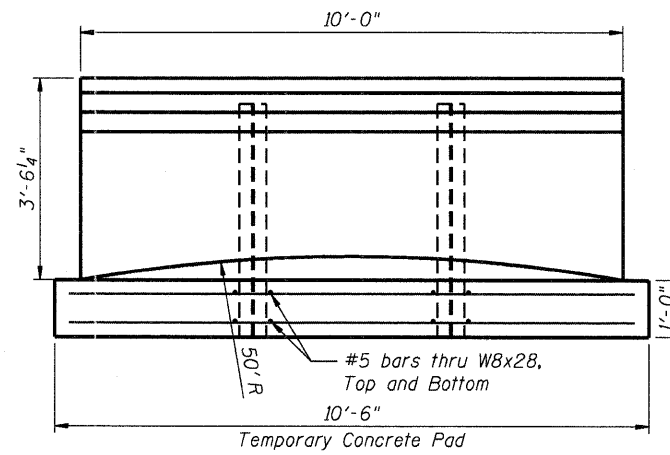
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	5
CONTRACT NO. 63620			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	



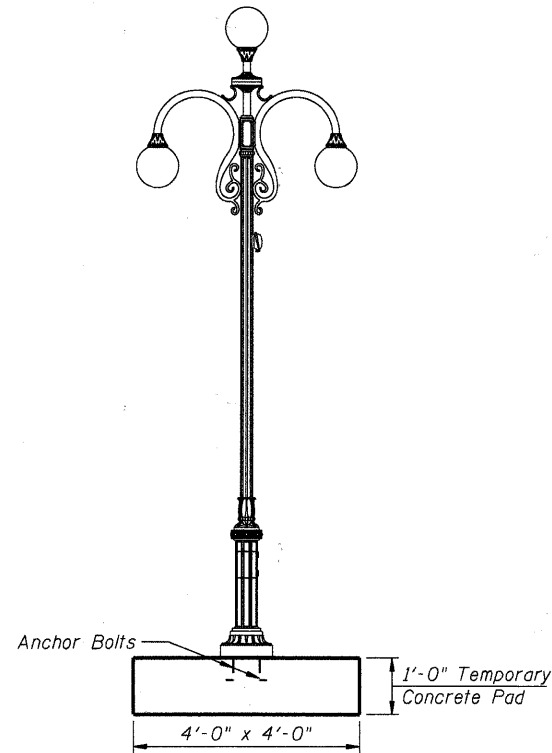
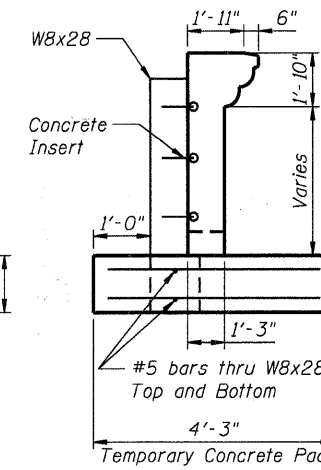
**MOCK-UP
CONCRETE BRIDGE RAILING**

See Sheets SW-14 and Special Provisions
for details and specifications



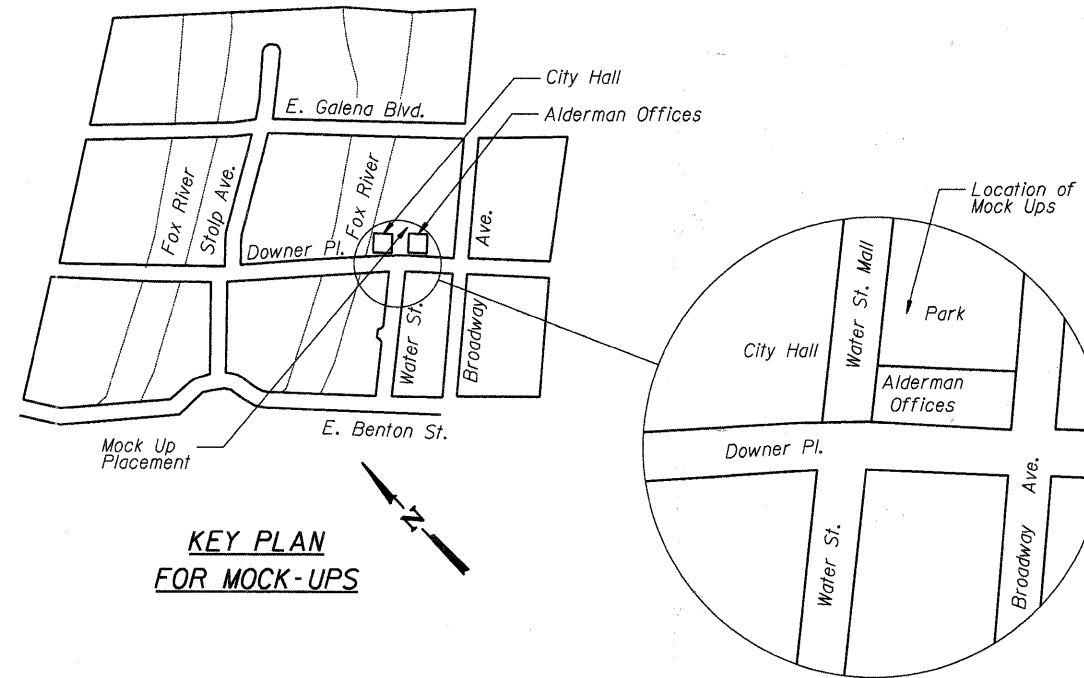
**MOCK-UP
PRECAST PANEL**

See Sheets SW-21 and Special Provisions
for details and specifications



**MOCK-UP
ORNAMENTAL LIGHT UNIT**

See Lighting Sheets and Special Provisions
for details and specifications



**KEY PLAN
FOR MOCK-UPS**

HRGREEN
COMPANY NAME: HRGREEN
PROJECT CONTACT: Michael G. Harding
DATE PLOTTED: 7/26/2011 10:55:47 AM
FILE NAME: 86090472-mock-ups.dgn
PLOT DRIVERS: pdfplot
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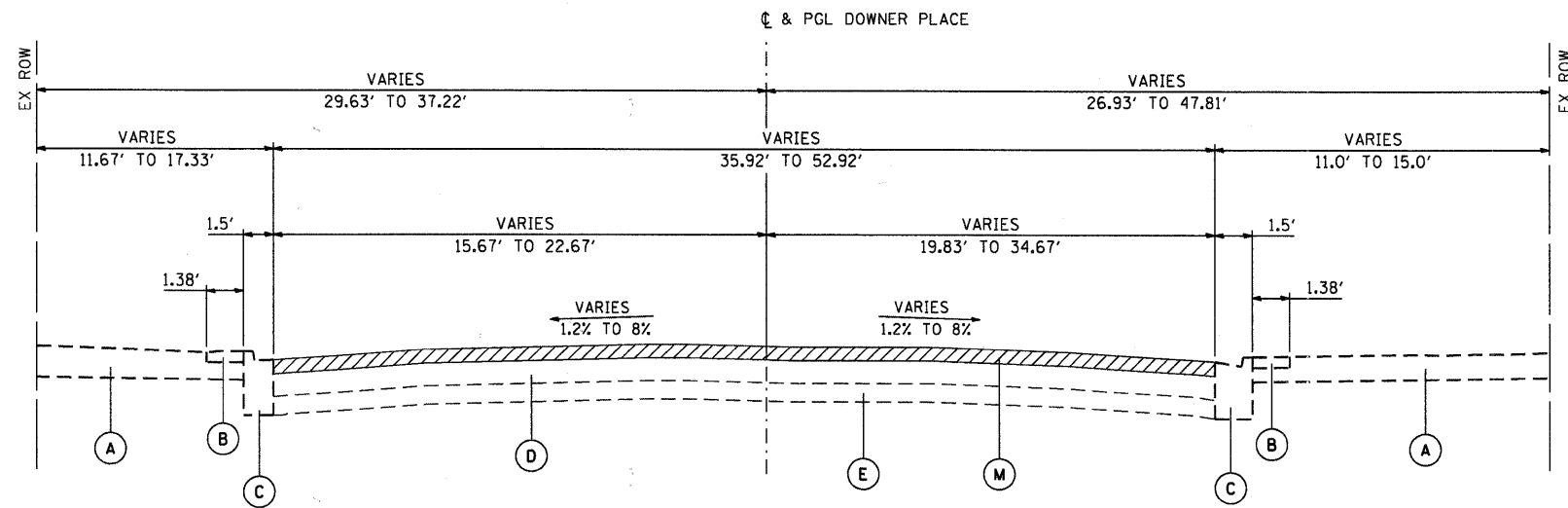
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CITY OF AURORA

**MOCK UPS
DOWNER PLACE**

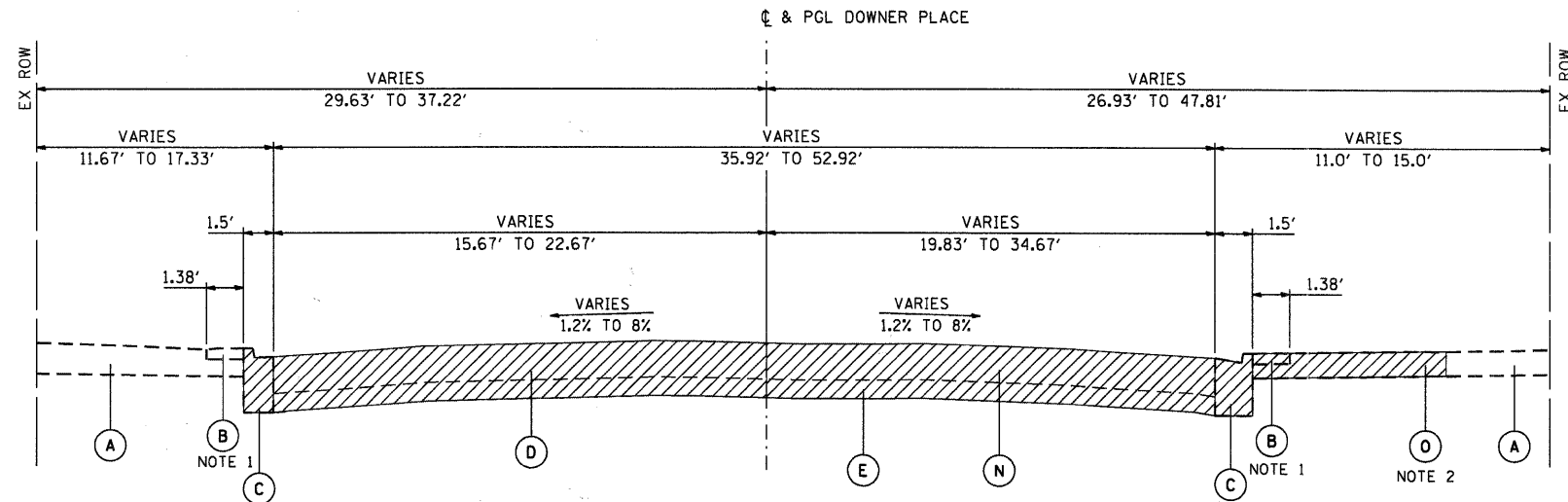
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	6
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**EXISTING ROADWAY TYPICAL SECTION
DOWNER PLACE**

STA. 106+56.48 TO STA 107+50.00
 STA. 111+07.23 TO STA. 114+00.00
 STA. 117+15.00 TO STA 119+78.48



**EXISTING ROADWAY TYPICAL SECTION
DOWNER PLACE**

STA. 107+50.00 TO STA 108+77.54
 STA. 110+50.17 TO STA. 111+07.23
 STA. 114+00.00 TO STA 115+04.75
 STA. 116+75.88 TO STA 117+15.00

NOTE 1: CONTRACTOR TO REMOVE, SALVAGE, STORE,
 AND REINSTALL BRICK PAVERS. COST INCLUDED IN
 PC CONC SIDEWALK 6

NOTE 2: SIDEWALK REMOVAL LOCATIONS
 FROM STA. 108+58.29 RT TO 108+74.25 RT
 FROM STA. 108+67.67 LT TO 108+85.08 LT
 FROM STA. 110+38.88 RT TO 111+07.23 RT
 FROM STA. 110+53.20 LT TO 110+07.23 LT
 FROM STA. 114+66.66 RT TO 114+98.99 RT
 FROM STA. 114+79.68 LT TO 115+14.58 LT
 FROM STA. 116+64.49 RT TO 117+14.37 RT
 FROM STA. 116+81.85 LT TO 117+15.41 LT

EXISTING LEGEND

- (A) EXISTING PPC SIDEWALK
- (B) EXISTING BRICK PAVERS
- (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 5 1/2" TO 8 1/2")
- (E) EXISTING BRICK PAVEMENT
- (F) EXISTING METAL RAILING**
- (G) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE SPANDREL WALLS)**
- (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE ARCH)**
- (I) EXISTING WATERMAIN*
- (J) EXISTING AT&T DUCT PACKAGE*
- (K) EXISTING SUBGRADE**
- (L) EXISTING LIGHTING
- (M) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (N) PAVEMENT REMOVAL
- (O) SIDEWALK REMOVAL

* EXISTING UTILITY TO BE RELOCATED TO PROPOSED STRUCTURE

** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (1 1/2")
- (2) LEVELING BINDER (MACHINE METHOD), N50 (1")
- (3) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
- (4) PORTLAND CEMENT CONCRETE SIDEWALK 6"
- (5) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- (6) CONCRETE WEARING SURFACE 5"
- (7) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH) (SEE BRIDGE PLANS)
- (8) CONCRETE SUPERSTRUCTURE
- (9) PRECAST CONCRETE PANELS
- (10) CONCRETE BRIDGE RAIL (SPECIAL)
- (11) ORNAMENTAL LIGHT UNIT, COMPLETE
- (12) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (13) WATER MAIN 12"
- (14) 2" PVC CONDUIT (SEE SUPERSTRUCTURE CROSS SECTION)
- (15) 1 - CITY OF AURORA DUCT, 4"
4 - AT&T DUCTS, 4"
4 - COMED DUCTS, 5"
- (16) SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- (17) BRICK PAVERS (INCLUDED IN PC CONC SIDEWALK 6)
- (18) PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL 6 INCH, SPECIAL
- (19) BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

HOT-MIX ASPHALT REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ N _{DES}
RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50 (IL-9.5 mm) (1 1/2")	4% @ 50 Gyr.
LEVELING BINDER (MACHINE METHOD), (IL-9.5 mm) (1")	4% @ 50 Gyr.
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (1 1/2")	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2 1/2")	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19.0 mm) (1" TO 8") (IN 3 LIFTS)	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES, TYPE I-III, 10 INCH (HMA BINDER IL-19 mm)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michelle G. Harshbarger
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 PLOT DRIVER: default
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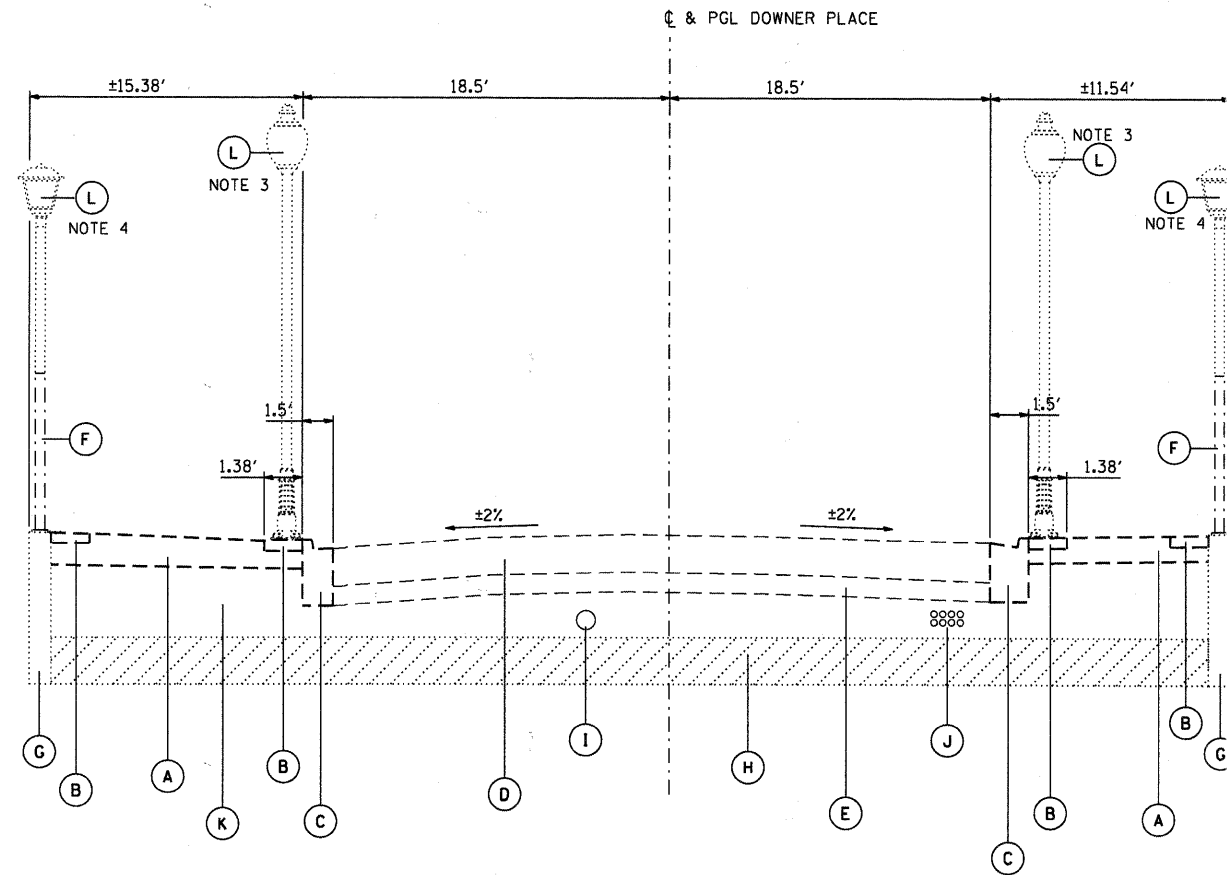
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CITY OF AURORA

**TYPICAL SECTIONS
DOWNER PLACE**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	7
CONTRACT NO. 63620			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	



**EXISTING BRIDGE TYPICAL SECTION
DOWNER PLACE**

STA. 108+77.54 TO STA 110+50.17
STA. 115+04.75 TO STA 116+75.88

NOTE 3: ACORN STYLE LIGHTS (5)
TO BE SALVAGED AND DELIVERED
TO THE CITY'S ELECTRICAL YARD.
COST INCLUDED IN
REMOVAL OF EXISTING STRUCTURES
NO. 1 AND 2.

NOTE 4: LANTERN STYLE LIGHTS (36) AND
MAST ARM LIGHTS (4) TO BE
REMOVED. COST INCLUDED IN
REMOVAL OF EXISTING STRUCTURES
NO. 1 AND 2.

EXISTING LEGEND

- (A) EXISTING PPC SIDEWALK
- (B) EXISTING BRICK PAVERS
- (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 5 1/2" TO 8 1/2")
- (E) EXISTING BRICK PAVEMENT
- (F) EXISTING METAL RAILING**
- (G) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE SPANDREL WALLS)**
- (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE ARCH)**
- (I) EXISTING WATERMAIN*
- (J) EXISTING AT&T DUCT PACKAGE*
- (K) EXISTING SUBGRADE**
- (L) EXISTING LIGHTING
- (M) HOT-MIX ASPHALT SUFACE REMOVAL, 2 1/4"
- (N) PAVEMENT REMOVAL
- (O) SIDEWALK REMOVAL

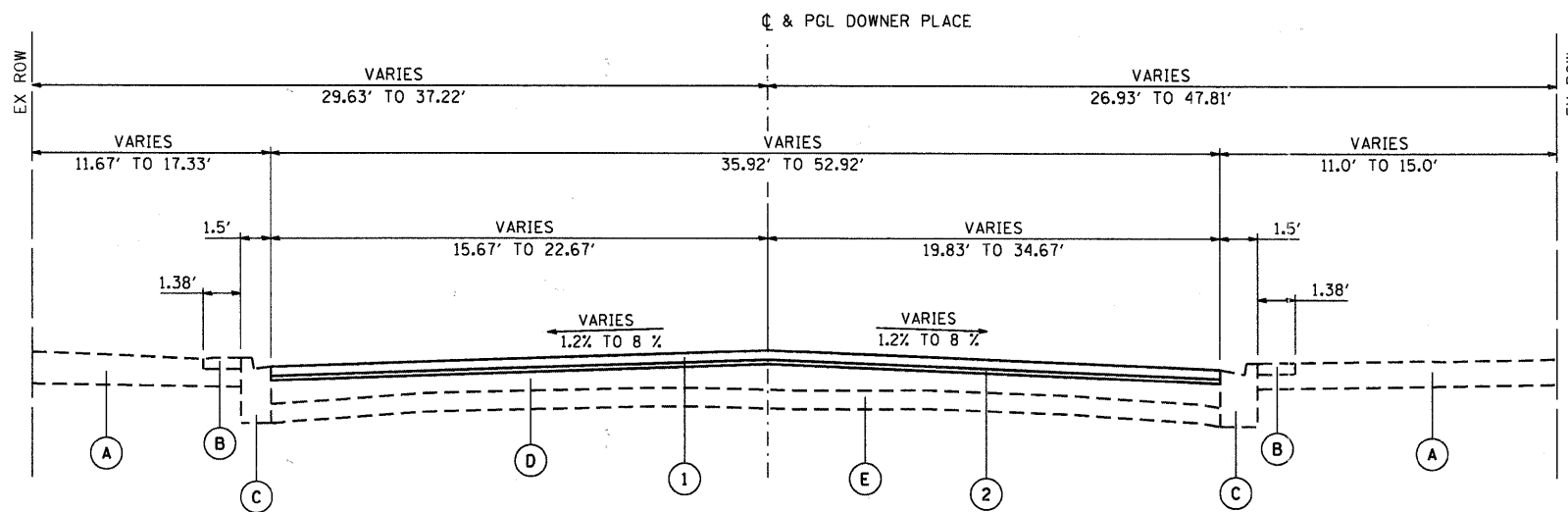
- * EXISTING UTILITY TO BE RELOCATED TO PROPOSED STRUCTURE
- ** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (1 1/2")
- (2) LEVELING BINDER (MACHINE METHOD), N50 (1")
- (3) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
- (4) PORTLAND CEMENT CONCRETE SIDEWALK 6"
- (5) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- (6) CONCRETE WEARING SURFACE 5"
- (7) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH) (SEE BRIDGE PLANS)
- (8) CONCRETE SUPERSTRUCTURE
- (9) PRECAST CONCRETE PANELS
- (10) CONCRETE BRIDGE RAIL (SPECIAL)
- (11) ORNAMENTAL LIGHT UNIT, COMPLETE
- (12) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (13) WATER MAIN 12"
- (14) 2" PVC CONDUIT (SEE SUPERSTRUCTRE CROSS SECTION)
- (15) 1 - CITY OF AURORA DUCT, 4"
4 - AT&T DUCTS, 4"
4 - COMED DUCTS, 5"
- (16) SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- (17) BRICK PAVERS (INCLUDED IN PC CONC SIDEWALK 6)
- (18) PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL 6 INCH, SPECIAL
- (19) BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

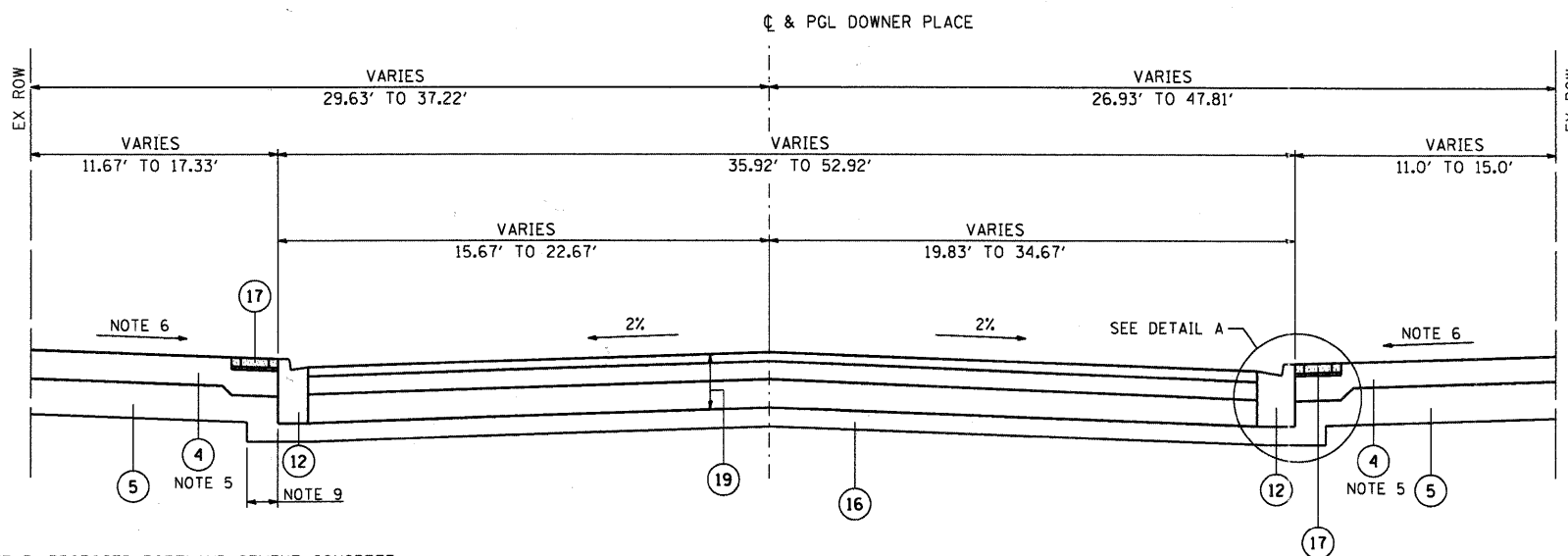
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 PROJECT CONTACT: Michael G. Harding
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	SCALE:	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT								



**PROPOSED TYPICAL SECTION
DOWNER PLACE**

STA. 106+56.48 TO STA. 107+50.00
 STA. 111+07.23 TO STA. 114+00.00
 STA. 117+15.00 TO STA. 119+78.48



**PROPOSED TYPICAL SECTION
DOWNER PLACE**

STA. 107+50.00 TO STA. 108+63.05
 STA. 110+64.65 TO STA. 111+07.23
 STA. 114+00.00 TO STA. 114+90.27
 STA. 116+90.37 TO STA. 117+15.00

NOTE 5: PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 6" LOCATIONS
 FROM STA. 110+52.12 RT TO 111+07.23 RT
 FROM STA. 110+64.33 LT TO 111+07.23 LT
 FROM STA. 114+66.66 RT TO 114+89.79 RT
 FROM STA. 114+79.68 LT TO 114+97.76 LT
 FROM STA. 116+79.42 RT TO 117+14.37 RT
 FROM STA. 116+96.32 LT TO 117+15.41 LT

NOTE 6: SIDEWALK SLOPE VARIES FROM 2% MAXIMUM TO 1/2% MINIMUM TO MATCH WITH EXISTING BUILDING ENTRANCES OR REMAINING SIDEWALK. IN NO CASE SHALL THE SLOPE BE BACK PITCHED TOWARD THE BUILDING.

NOTE 9: SUB-BASE GRANULAR MATERIAL, TYPE B 4" TO EXTEND 1'-0" PAST BACK OF CURB WHERE SIDEWALK IS BEING RECONSTRUCTED ADJACENT TO PROPOSED CURB AND GUTTER AND END AT BACK OF CURB WHERE EXISTING SIDEWALK IS TO REMAIN.

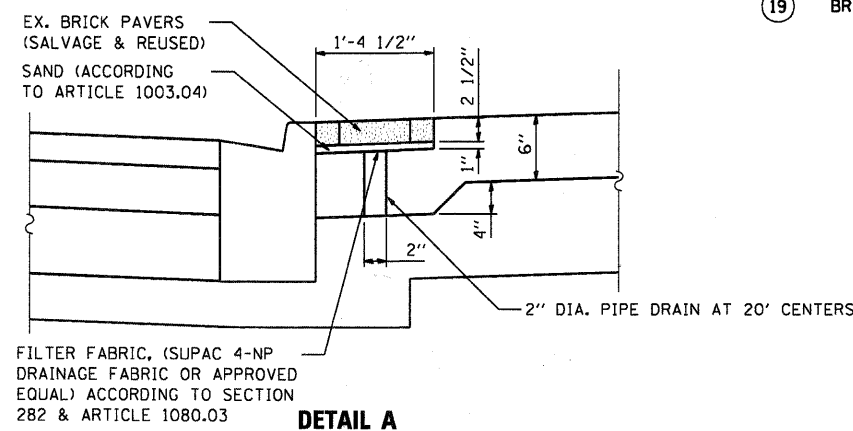
EXISTING LEGEND

- (A) EXISTING PPC SIDEWALK
- (B) EXISTING BRICK PAVERS
- (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 5 1/2" TO 8 1/2")
- (E) EXISTING BRICK PAVEMENT
- (F) EXISTING METAL RAILING**
- (G) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE SPANDREL WALLS)**
- (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE ARCH)**
- (I) EXISTING WATERMAIN*
- (J) EXISTING AT&T DUCT PACKAGE*
- (K) EXISTING SUBGRADE**
- (L) EXISTING LIGHTING
- (M) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (N) PAVEMENT REMOVAL
- (O) SIDEWALK REMOVAL

* EXISTING UTILITY TO BE RELOCATED TO PROPOSED STRUCTURE
 ** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (1 1/2")
- (2) LEVELING BINDER (MACHINE METHOD), N50 (1")
- (3) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
- (4) PORTLAND CEMENT CONCRETE SIDEWALK 6"
- (5) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- (6) CONCRETE WEARING SURFACE 5"
- (7) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH) (SEE BRIDGE PLANS)
- (8) CONCRETE SUPERSTRUCTURE
- (9) PRECAST CONCRETE PANELS
- (10) CONCRETE BRIDGE RAIL (SPECIAL)
- (11) ORNAMENTAL LIGHT UNIT, COMPLETE
- (12) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (13) WATER MAIN 12"
- (14) 2" PVC CONDUIT (SEE SUPERSTRUCTURE CROSS SECTION)
- (15) 1 - CITY OF AURORA DUCT, 4"
4 - AT&T DUCTS, 4"
4 - COMED DUCTS, 5"
- (16) SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- (17) BRICK PAVERS (INCLUDED IN PC CONC SIDEWALK 6)
- (18) PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL 6 INCH, SPECIAL
- (19) BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



DETAIL A
 (COST INCLUDED IN PC CONC SIDEWALK 6)

HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:35:57 AM
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 PEN TABLE: 22x34.tbl



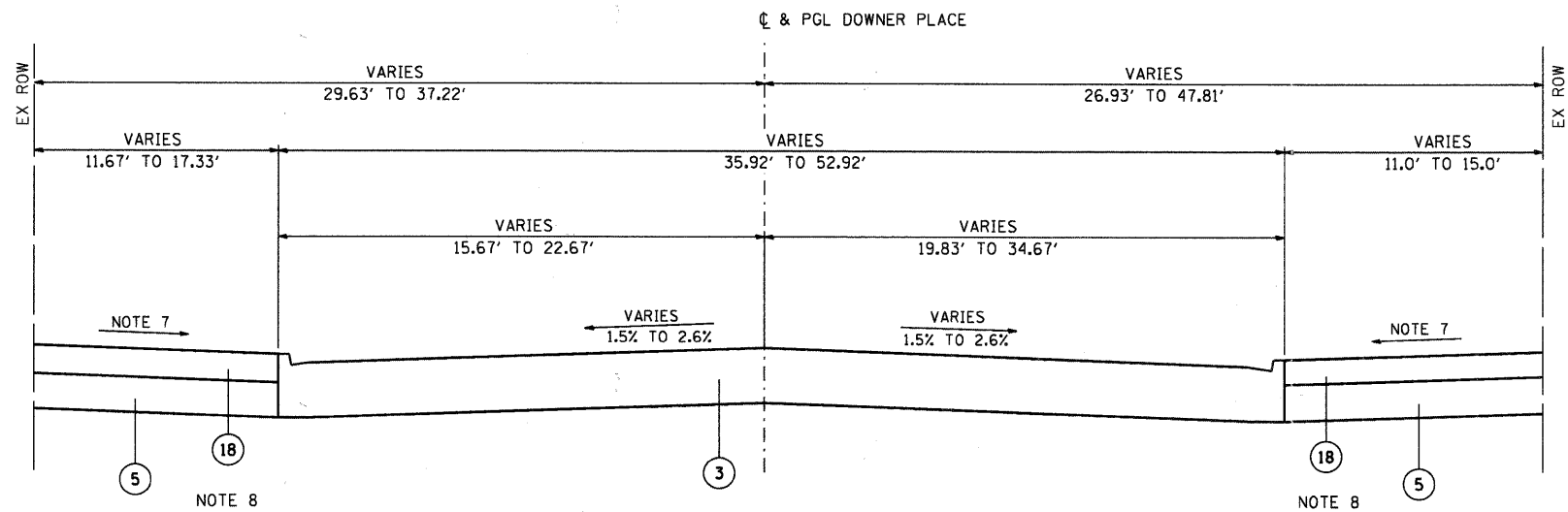
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CITY OF AURORA

**TYPICAL SECTIONS
DOWNER PLACE**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	9
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

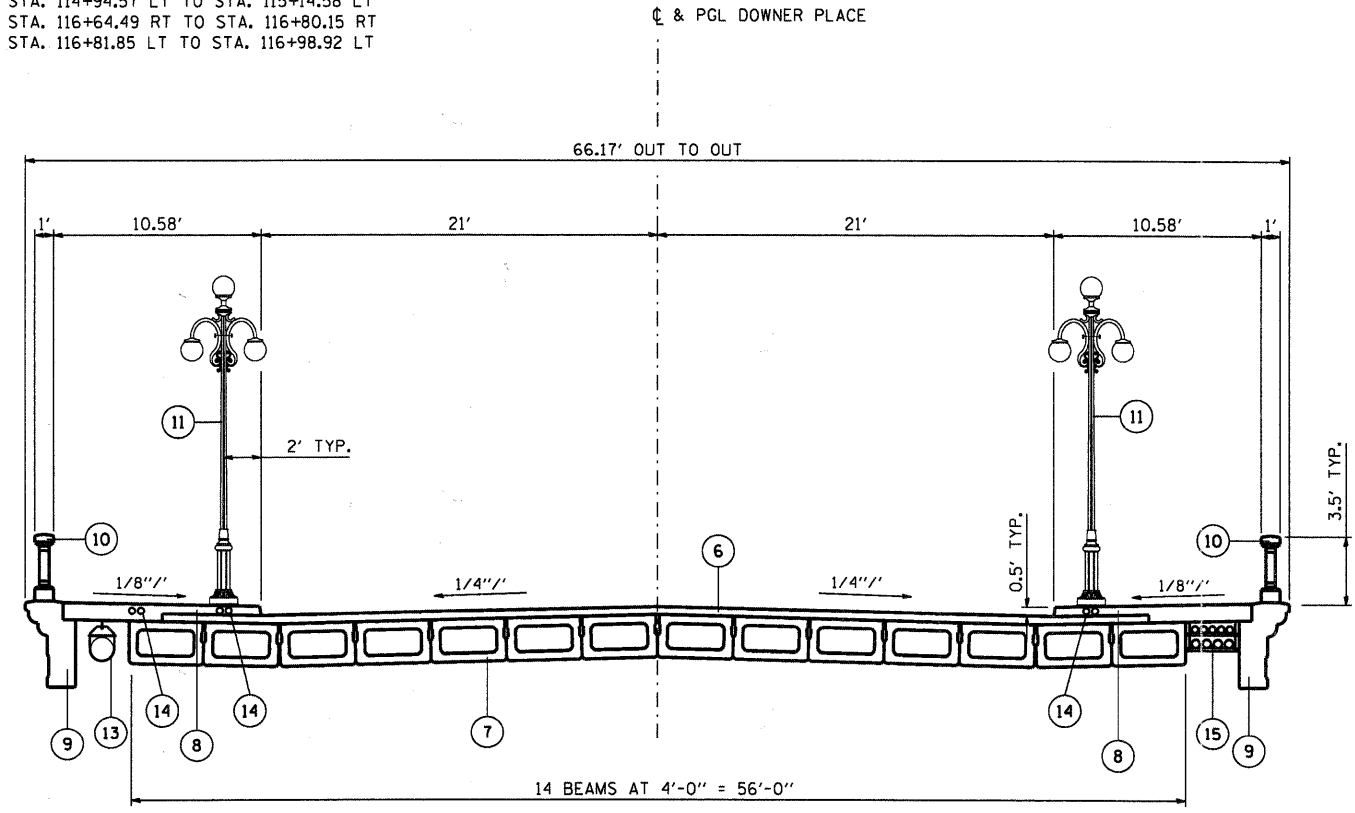


**PROPOSED TYPICAL SECTION
DOWNER PLACE**

STA. 108+63.05 TO STA. 108+78.05
 STA. 110+49.65 TO STA. 110+64.65
 STA. 114+90.27 TO STA. 115+05.27
 STA. 116+75.36 TO STA. 116+90.33

NOTE 7: TRANSITION SIDEWALK SLOPE FROM 1.25% TO 2% MAXIMUM OVER THE LENGTH OF THE BRIDGE APPROACH SLAB (15 FT.).

NOTE 8: PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 6", SPECIAL LOCATIONS
 STA. 108+58.29 RT TO STA. 108+74.25 RT
 STA. 108+67.67 LT TO STA. 108+85.08 LT
 STA. 110+38.88 RT TO STA. 110+54.56 RT
 STA. 110+53.20 LT TO STA. 110+66.21 LT
 STA. 114+84.15 RT TO STA. 114+98.99 RT
 STA. 114+94.57 LT TO STA. 115+14.58 LT
 STA. 116+64.49 RT TO STA. 116+80.15 RT
 STA. 116+81.85 LT TO STA. 116+98.92 LT



**PROPOSED TYPICAL SECTION
DOWNER PLACE**

STA. 108+78.05 TO STA. 110+49.65
 STA. 115+05.27 TO STA. 116+75.36

EXISTING LEGEND

- (A) EXISTING PPC SIDEWALK
- (B) EXISTING BRICK PAVERS
- (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 5 1/2" TO 8 1/2")
- (E) EXISTING BRICK PAVEMENT
- (F) EXISTING METAL RAILING**
- (G) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE SPANDREL WALLS)**
- (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE ARCH)**
- (I) EXISTING WATERMAIN*
- (J) EXISTING AT&T DUCT PACKAGE*
- (K) EXISTING SUBGRADE**
- (L) EXISTING LIGHTING
- (M) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (N) PAVEMENT REMOVAL
- (O) SIDEWALK REMOVAL

- * EXISTING UTILITY TO BE RELOCATED TO PROPOSED STRUCTURE
- ** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (1 1/2")
- (2) LEVELING BINDER (MACHINE METHOD), N50 (1")
- (3) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
- (4) PORTLAND CEMENT CONCRETE SIDEWALK 6"
- (5) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- (6) CONCRETE WEARING SURFACE 5"
- (7) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH) (SEE BRIDGE PLANS)
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- (9) PRECAST CONCRETE PANELS
- (10) CONCRETE BRIDGE RAIL (SPECIAL)
- (11) ORNAMENTAL LIGHT UNIT, COMPLETE
- (12) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (13) WATER MAIN 12"
- (14) 2" PVC CONDUIT (SEE SUPERSTRUCTURE CROSS SECTION)
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- (18) PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL 6 INCH, SPECIAL
- (19) BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

HRGREEN
 COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harading
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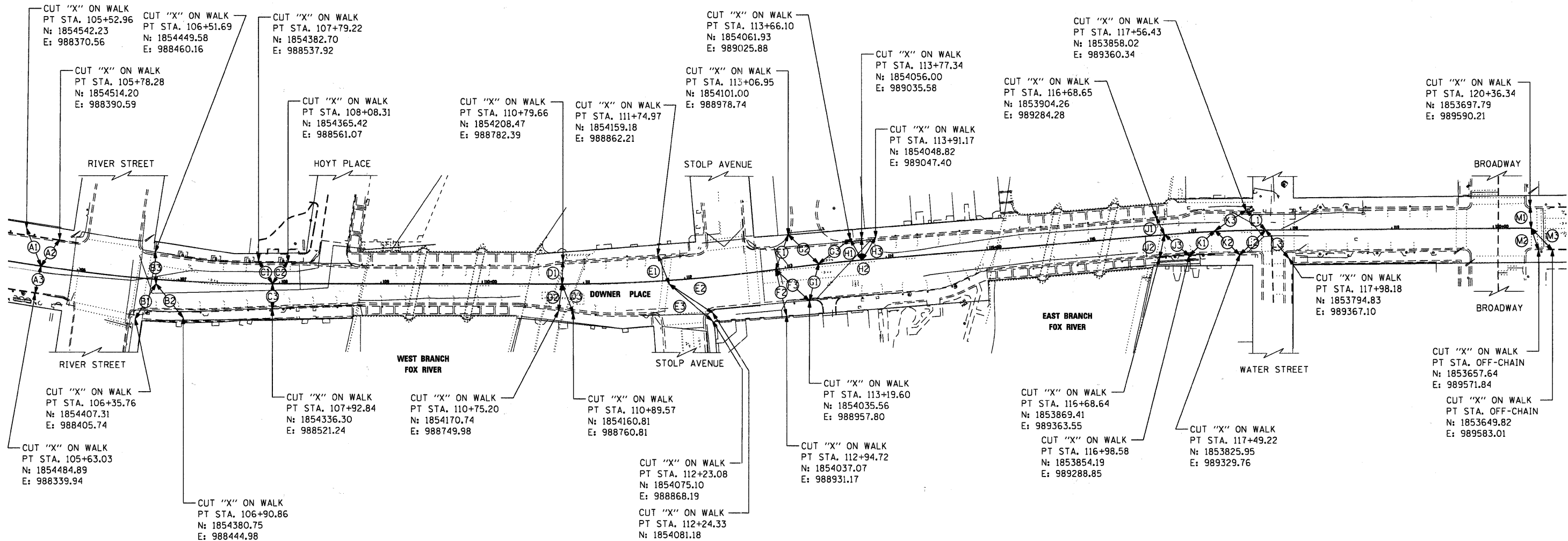
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CITY OF AURORA

**TYPICAL SECTIONS
DOWNER PLACE**

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	10
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63620	

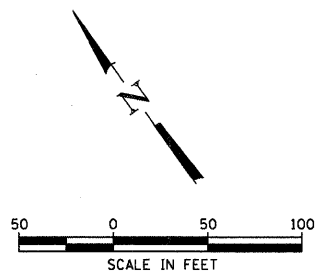


BENCH MARKS

BENCHMARK 1:
 NORTHEAST BOLT ON FIRE HYDRANT IN THE SOUTHWEST QUADRANT OF STOLP AVENUE AND DOWNER PLACE. APPROXIMATELY STA. 111+60, ±34' RT. SOUTHWEST OF CENTERLINE OF DOWNER PLACE AND ±37' OF THE CENTERLINE OF STOLP AVENUE.
 ELEVATION: 638.31 (NAVD 88)

BENCHMARK 2:
 BOLT ON TOP FLANGE OF FIRE HYDRANT LABELED "BURY" LOCATED IN FRONT OF THE "GRAND ARMY OF THE REPUBLIC" (G.A.R.) BUILDING AT THE SOUTHWEST QUADRANT OF THE INTERSECTION OF DOWNER PLACE AND THE FOX RIVER ON THE EAST SIDE OF THE ISLAND. APPROXIMATELY STA. 114+84, ±36' RT. OF THE CENTERLINE OF DOWNER PLACE
 ELEVATION: 638.09 (NAVD 88)

TIE	DISTANCE	BEARING	TIE	DISTANCE	BEARING	TIE	DISTANCE	BEARING
A1	40.07'	S14°49'53"W	E1	31.24'	S14°09'45"W	J1	19.30'	S09°54'52"W
A2	32.12'	S70°32'01"W	E2	51.21'	N21°20'13"W	J2	23.54'	N47°41'48"E
A3	27.58'	N47°35'55"E	E3	55.49'	N14°13'20"E	J3	32.05'	N14°15'24"W
B1	40.08'	N66°30'38"E	F1	36.73'	S55°09'38"W	K1	35.48'	N81°01'21"E
B2	42.61'	N03°20'32"W	F2	46.34'	N22°04'53"E	K2	34.28'	N09°51'25"W
B3	31.68'	S33°53'42"W	F3	45.40'	N11°42'27"W	K3	36.49'	N87°19'13"W
C1	26.25'	S04°19'12"W	G1	37.94'	N49°21'33"E	L1	27.50'	S09°01'09"E
C2	26.66'	S70°29'52"W	G2	41.48'	S10°54'29"E	L2	35.23'	N81°59'46"E
C3	25.00'	N36°00'24"E	G3	39.33'	S87°34'16"W	L3	36.11'	S03°53'17"W
D1	22.82'	S38°00'18"W	H1	23.68'	S06°00'56"W	M1	21.81'	S32°40'24"W
D2	26.97'	N42°55'03"E	H2	21.42'	S34°39'42"W	M2	22.77'	N16°50'35"E
D3	30.61'	N14°14'51"E	H3	26.18'	S66°29'31"W	M3	29.97'	N08°46'35"W

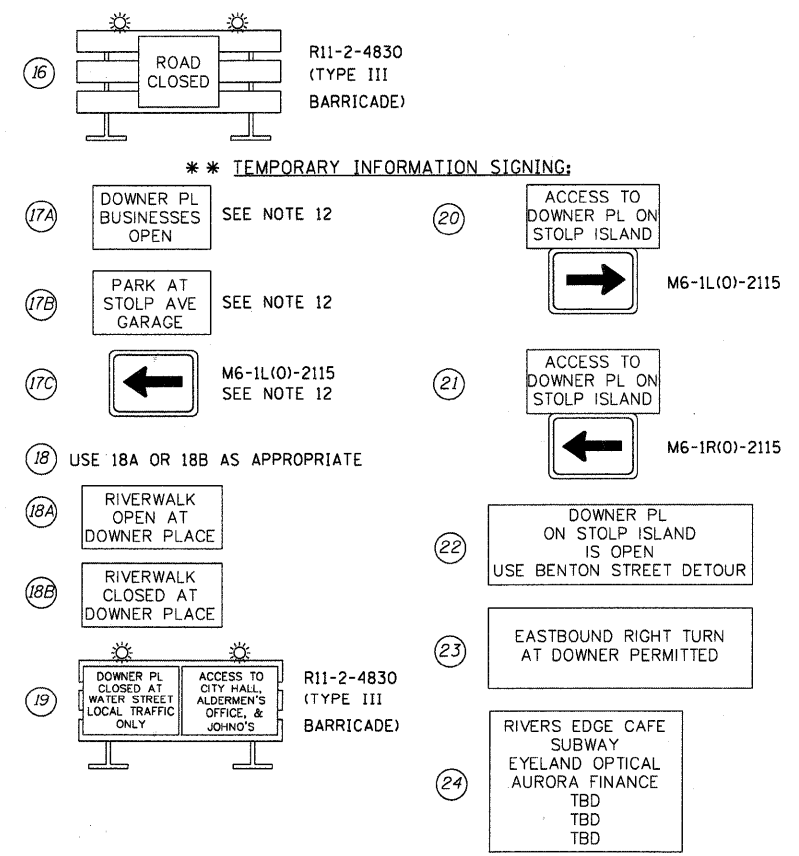


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 PROJECT CONTACT: Michon G. Herd
 CLIENT: City of Aurora
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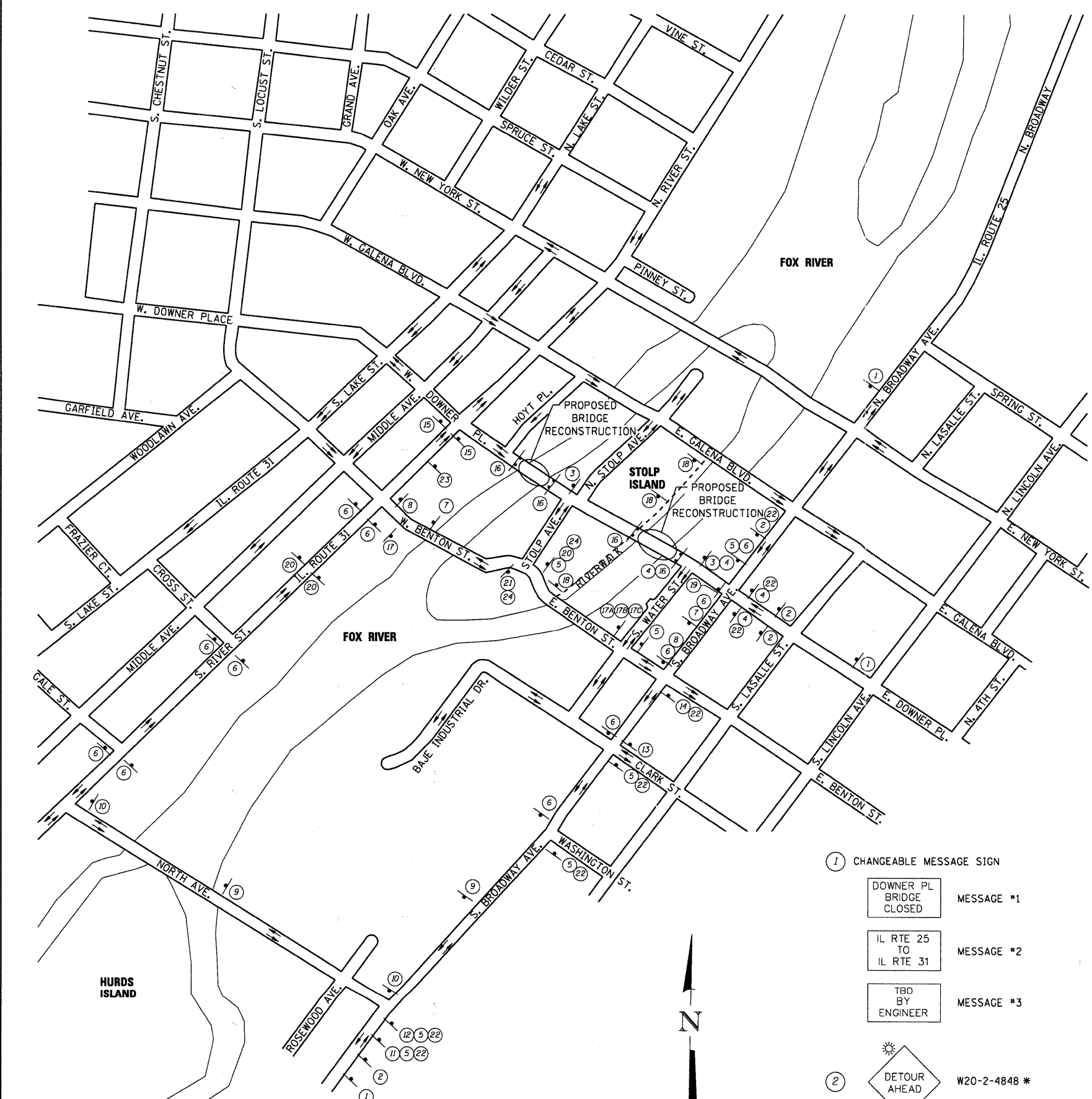
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	SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 105+50 TO STA. 120+50				CONTRACT NO. 63620 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

DETOUR GENERAL NOTES

- SEE DOWNER PLACE AND BENTON STREET MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL SIGNAGE.
- DOWNER PLACE SHALL NOT BE CLOSED UNTIL ALL TRAFFIC CONTROL AND PROTECTION HAS BEEN ESTABLISHED IN ACCORDANCE WITH THE DETOUR AND MAINTENANCE OF TRAFFIC PLANS.
- THE ENGINEER, CITY OF AURORA EMERGENCY SERVICES, AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED IN WRITING A MINIMUM OF TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THESE PARTIES SHALL ALSO BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE DETOUR BEING REMOVED AND DOWNER PLACE REOPENED TO NORMAL TRAFFIC OPERATIONS.
- ADDITIONAL TRAFFIC CONTROL AND PROTECTION DEEMED NECESSARY BY THE ENGINEER SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST.
- AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS (INCLUDING A 24 HOUR EMERGENCY NUMBER) OF THE REPRESENTATIVES RESPONSIBLE FOR CORRECTING TRAFFIC CONTROL DEFICIENCIES.
- THE LOCATIONS OF ALL SIGNS SHOWN ON THE DETOUR PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST LOCATIONS TO FIT FIELD CONDITIONS.
- ALL DETOUR SIGNS SHALL BE POST MOUNTED.
- EXISTING TRAFFIC SIGNS CONFLICTING WITH THE DETOUR SIGNAGE SHALL BE TEMPORARILY REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
- ALL DETOUR SIGNS SHALL BE NEW OR IN LIKE-NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
- ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH, INSTALL AND MAINTAIN THE DETOUR WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."
- CHANGEABLE MESSAGE SIGN TO BE USED AS DIRECTED BY THE ENGINEER. ACTUAL MESSAGE TO BE DETERMINED BY THE ENGINEER.
- SIX TEMPORARY INFORMATION SIGNS 17A AND 17B SHALL BE LOCATED AS DETERMINED BY THE ENGINEER. SIGN 17C M6 DIRECTIONAL ARROW SHALL BE DETERMINED UPON PLACEMENT OF TEMPORARY INFORMATION SIGNS 17A AND 17B.



* FLASHING LIGHT SHALL BE ON THE TRAFFIC SIDE OF THE SIGN.
 ** TEMPORARY INFORMATION SIGNAGE SIZES SHALL BE DETERMINED BY THE CONTRACTOR BASED UPON LENGTH OF MESSAGE.



- 3 ROAD CLOSED AHEAD W20-3-4848 *
- 4 DOWNER PLACE W16-8(0)-3018
DETOUR M4-9L(0)-3024
- 5 DOWNER PLACE W16-8(0)-3018
CARS ONLY M4-4(0)-3015
DETOUR M4-9(0)-3030
- 6 DOWNER PLACE W16-8(0)-3018
TRUCKS M4-4(0)-3015
DETOUR M4-9(0)-3030
- 7 DOWNER PLACE W16-8(0)-3018
CARS ONLY M4-4(0)-3015
DETOUR M4-9R(0)-3030
- 8 DOWNER PLACE W16-8(0)-3018
CARS ONLY M4-4(0)-3015
DETOUR M4-9R(0)-3024
- 9 DOWNER PLACE W16-8(0)-3018
TRUCKS M4-4(0)-3015
DETOUR M4-9R(0)-3030
- 10 DOWNER PLACE W16-8(0)-3018
TRUCKS M4-4(0)-3015
DETOUR M4-9R(0)-3024
- 11 DOWNER PLACE W16-8(0)-3018
TRUCKS M4-4(0)-3015
DETOUR M4-9L(0)-3030
- 12 DOWNER PLACE W16-8(0)-3018
TRUCKS M4-4(0)-3015
DETOUR M4-9L(0)-3024
- 13 DOWNER PLACE W16-8(0)-3018
CARS ONLY M4-4(0)-3015
DETOUR M4-9L(0)-3030
- 14 DOWNER PLACE W16-8(0)-3018
CARS ONLY M4-4(0)-3015
DETOUR M4-9L(0)-3024
- 15 DOWNER PLACE W16-8(0)-3018
END DETOUR M4-8A(0)-3024

- 1 CHANGEABLE MESSAGE SIGN
 - DOWNER PL BRIDGE CLOSED MESSAGE #1
 - IL RTE 25 TO IL RTE 31 MESSAGE #2
 - TBD BY ENGINEER MESSAGE #3
- 2 DETOUR AHEAD W20-2-4848 *
DOWNER PLACE W16-8(0)-3018

HRGreen
 PROJECT CONTACT: Michael G. Harding
 City of Aurora
 7/26/2011 10:53:12 AM
 FILE NAME: 86090472-Dtr.dgn
 PLOT DATE: 7/26/2011
 PLOT SCALE: 1"=40'

HRGreen.com
 Illinois Professional Design Firm
 #154-001322

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FILE NAME = 86090472-Dtr.dgn	DRAWN - JMR	REVISED -
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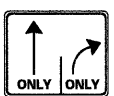

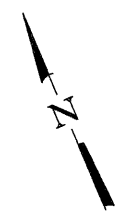


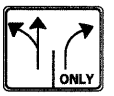


CITY OF AURORA

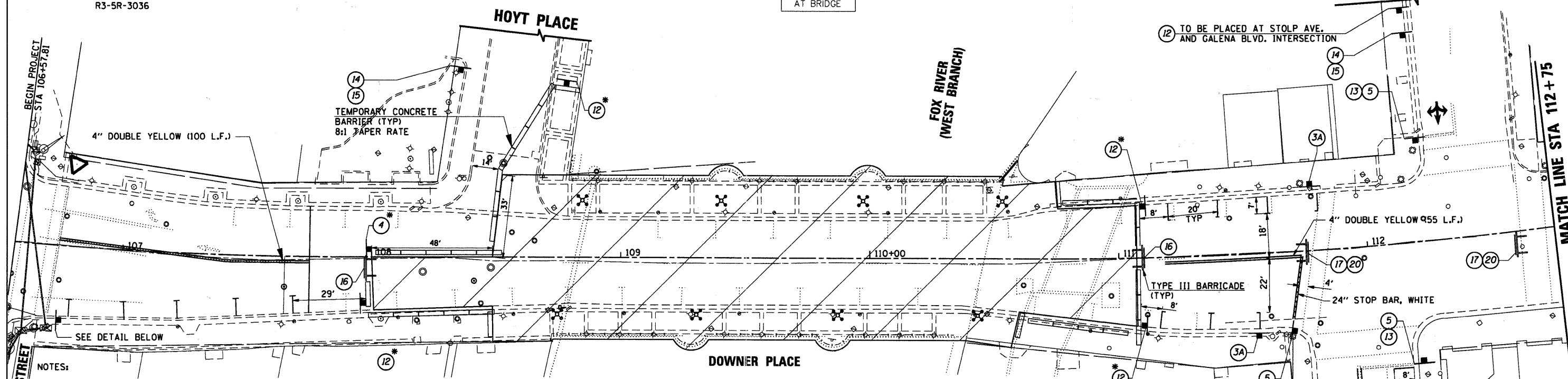
**TEMPORARY DETOUR PLAN
 DOWNER PLACE**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	12
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TEMPORARY TRAFFIC SIGNS








<p>① NO TURN ON RED R10-11A-2430</p> <p>LOCATIONS: 1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING WEST. 2. EASTBOUND MAST ARM 3' SOUTH OF THE OUTER SIGNAL HEAD FACING WEST.</p>	<p>③A 30 MIN PARKING R7-115-1218</p>	<p>⑦  W3-1A-36</p>	<p>⑨B  R3-8-3636</p>	<p>⑬ ALL WAY R4-1-186</p>	<p>⑰ ROAD CLOSED TO THRU TRAFFIC R11-4-6030</p>	<p>SCALE IN FEET</p>  
<p>② ONE WAY R6-2-2430</p> <p>LOCATIONS: 1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING EAST.</p>	<p>④ DO NOT ENTER R5-1-3030</p> <p>LOCATIONS: 1. MOUNTED ON SPAN WIRE FACING EAST AND CENTERED OVER WESTBOUND RIGHT-TURN LANE.</p>	<p>⑩ CROSS TRAFFIC DOES NOT STOP R1-1100-3018</p> <p>MOUNT BELOW STOP SIGN ON WATER STREET AT BENTON STREET</p>	<p>⑭  W20-1(O)-48</p>	<p>⑱ ROAD CLOSED R11-2-4830</p>	<p>⑲ DETOUR M4-9L(O)-3024</p>	
<p>②A ONE WAY R6-2-2430</p> <p>LOCATIONS: 1. TRAFFIC SIGNAL POST IN SOUTHWEST CORNER FACING EAST.</p>	<p>⑤ STOP R1-1-36</p>	<p>⑧  W6-3-36</p>	<p>⑪  R3-8-3636</p> <p>SIDEWALK OPEN TO BUSINESSES</p>	<p>⑮  M6-1(O)-2115</p>	<p>⑲ DETOUR M4-9L(O)-3024</p>	
<p>③ ONLY R3-5R-3036</p>	<p>⑥ 3 WAY R1-3-3-126</p>	<p>⑨A  R3-8-3636</p>	<p>⑫ TEMPORARY INFORMATION SIGNING</p> <p>SIDEWALK CLOSED AT BRIDGE</p>	<p>⑯ ROAD CLOSED R11-2-4830</p>	<p>⑳ DETOUR M4-9(O)-3024</p>	

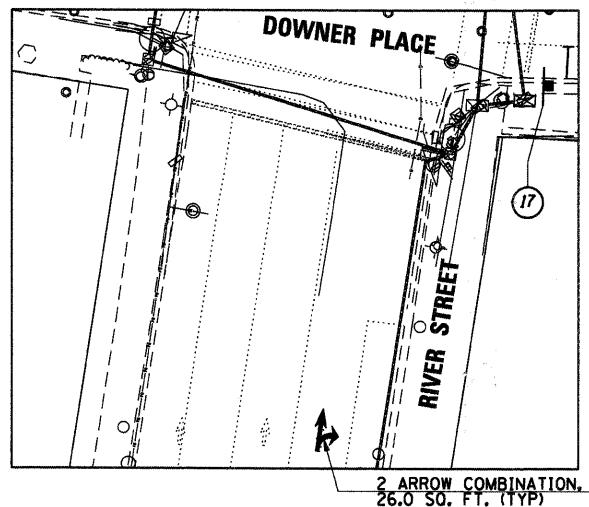


- NOTES:**
- WORK ZONE PAVEMENT MARKINGS FOR THE MAINTENANCE OF TRAFFIC SHALL CONSIST OF PAVEMENT MARKING TAPE, TYPE III.
 - THE LOCATIONS OF ALL SIGNS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST LOCATIONS TO FIT FIELD CONDITIONS.
 - EXISTING TRAFFIC SIGNS CONFLICTING WITH THE MAINTENANCE OF TRAFFIC PLAN SHALL BE TEMPORARILY REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE MAINTENANCE OF TRAFFIC PLAN OR AS DIRECTED BY THE ENGINEER. ANY EXISTING PAVEMENT MARKINGS REMOVED SHALL BE REPLACED (SEE FINAL STRIPING PLAN).
 - EXISTING TRAFFIC SIGNALS AT STOLP AVENUE SHALL BE PLACED IN RED FLASH WHILE THE MAINTENANCE OF TRAFFIC PLAN IS IN EFFECT.
 - CONTRACTOR SHALL PROTECT PEDESTRIANS FROM CONSTRUCTION ACTIVITIES ON OPEN SIDEWALKS IN ACCORDANCE WITH STANDARD 701801-04 AT ALL TIMES.
 - CONTRACTOR SHALL KEEP SIDEWALKS CLEAR OF MATERIALS AT ALL TIMES TO MAINTAIN PEDESTRIAN ACCESS.
 - CONTRACTOR EMPLOYEES WILL NOT BE ALLOWED TO PARK ALONG DOWNER PLACE.


* SIGN SHALL BE MOUNTED ON TOP OF THE TEMPORARY CONCRETE BARRIER.

LEGEND

-  CONTRACTOR WORK AREA
-  DRUM OR BARRICADE
-  TEMPORARY FLEXIBLE DELINEATORS
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE III BARRICADES
-  TEMPORARY CONCRETE BARRIER
-  DRUM OR BARRICADE SPACING:
50' C-C ON TANGENTS
25' C-C ON TAPERS OR LANE SHIFTS
12' C-C ON RADII



COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 DATE PLOTTED: 7/26/2011 10:53:23 AM
 FILE NAME: 06090472-mot-03-downer.dgn
 PLOT DRIVER: pldr01
 PLOT TABLE: Struct 22x34.tbl

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	SCALE:	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.		07-00264-00-BR KANE 164 13		

CONTRACT NO. 63620	
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT	

TEMPORARY TRAFFIC SIGNS

LOCATIONS:
 1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING WEST.
 2. EASTBOUND MAST ARM 3' SOUTH OF THE OUTER SIGNAL HEAD FACING WEST.

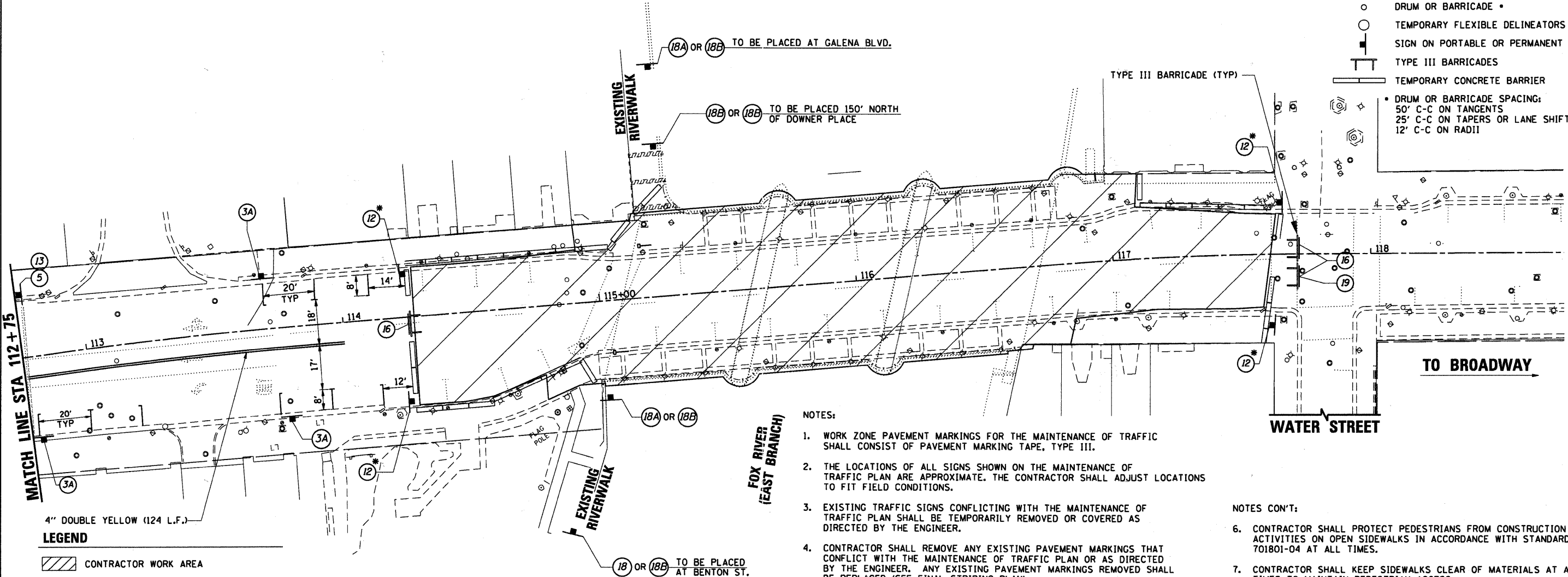
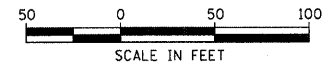
LOCATIONS:
 1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING EAST.
 1. TRAFFIC SIGNAL POST IN SOUTHWEST CORNER FACING EAST.

LOCATIONS:
 1. MOUNTED ON SPAN WIRE FACING EAST AND CENTERED OVER WESTBOUND RIGHT-TURN LANE.

TEMPORARY INFORMATION SIGNING

LEGEND

- CONTRACTOR WORK AREA
- DRUM OR BARRICADE
- TEMPORARY FLEXIBLE DELINEATORS
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADES
- TEMPORARY CONCRETE BARRIER
- DRUM OR BARRICADE SPACING:
 50' C-C ON TANGENTS
 25' C-C ON TAPERS OR LANE SHIFTS
 12' C-C ON RADII



HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:53:30 AM
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 STRAIGHT: 22x34.tbl

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 Illinois Professional Design Firm
 # 184-001922

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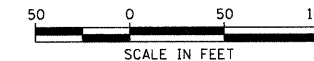
CITY OF AURORA

**SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 DOWNER PLACE**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	14
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TEMPORARY TRAFFIC SIGNS



1 **NO TURN ON RED**
R10-11A-2430
LOCATIONS:
1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING WEST.
2. EASTBOUND MAST ARM 3' SOUTH OF THE OUTER SIGNAL HEAD FACING WEST.

2 **ONE WAY**
R6-2-2430
LOCATIONS:
1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING EAST.

2A **ONE WAY**
R6-2-2430
LOCATIONS:
1. TRAFFIC SIGNAL POST IN SOUTHWEST CORNER FACING EAST.

3 **ONLY**
R3-5R-3036

3A **30 MIN PARKING**
R7-115-1218

4 **DO NOT ENTER**
R5-1-3030
LOCATIONS:
1. MOUNTED ON SPAN WIRE FACING EAST AND CENTERED OVER WESTBOUND RIGHT-TURN LANE.

5 **STOP**
R1-1-36

6 **3 WAY**
R1-3-3-126

7 **W3-1A-36**

8 **W6-3-36**

9A **R3-8-3636**

9B **R3-8-3636**

10 **CROSS TRAFFIC DOES NOT STOP**
R1-1100-3018
MOUNT BELOW STOP SIGN ON WATER STREET AT BENTON STREET

11 **R3-8-3636**
SIDEWALK OPEN TO BUSINESSES
TEMPORARY INFORMATION SIGNING
SIDEWALK CLOSED AT BRIDGE

12 **R11-2-4830**

13 **ALL WAY**
R4-1-186

14 **ROAD CONSTRUCTION AHEAD**
W20-1(10)-48

15 **M6-1(10)-2115**

16 **ROAD CLOSED**
R11-2-4830

17 **ROAD CLOSED TO THRU TRAFFIC**
R11-4-6030

18A **RIVERWALK OPEN AT DOWNER PLACE**

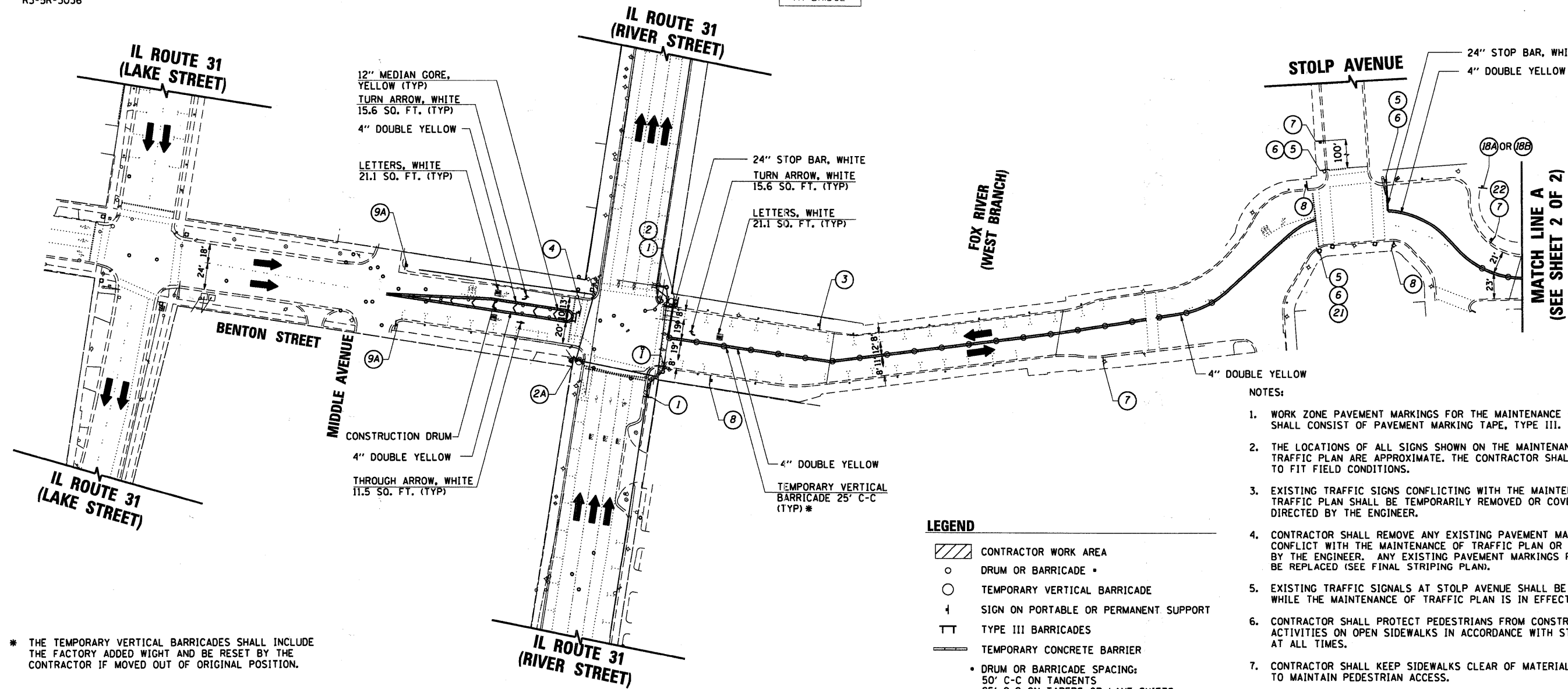
18B **RIVERWALK CLOSED AT DOWNER PLACE**

19 **DETOUR**
M4-9L(10)-3024

20 **DETOUR**
M4-9(10)-3024

21 **ACCESS TO DOWNER PL ON STOLP ISLAND**
M6-1R(10)-2115

22 **ACCESS TO DOWNER PL ON STOLP ISLAND**
M6-1R(10)-2115



* THE TEMPORARY VERTICAL BARRICADES SHALL INCLUDE THE FACTORY ADDED WIGHT AND BE RESET BY THE CONTRACTOR IF MOVED OUT OF ORIGINAL POSITION.

- NOTES:**
1. WORK ZONE PAVEMENT MARKINGS FOR THE MAINTENANCE OF TRAFFIC SHALL CONSIST OF PAVEMENT MARKING TAPE, TYPE III.
 2. THE LOCATIONS OF ALL SIGNS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST LOCATIONS TO FIT FIELD CONDITIONS.
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 6. CONTRACTOR SHALL PROTECT PEDESTRIANS FROM CONSTRUCTION ACTIVITIES ON OPEN SIDEWALKS IN ACCORDANCE WITH STANDARD 701801-04 AT ALL TIMES.
 7. CONTRACTOR SHALL KEEP SIDEWALKS CLEAR OF MATERIALS AT ALL TIMES TO MAINTAIN PEDESTRIAN ACCESS.
 8. CONTRACTOR EMPLOYEES WILL NOT BE ALLOWED TO PARK ALONG DOWNER PLACE.

LEGEND

- CONTRACTOR WORK AREA
- DRUM OR BARRICADE
- TEMPORARY VERTICAL BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADES
- TEMPORARY CONCRETE BARRIER

• DRUM OR BARRICADE SPACING:
50' C-C ON TANGENTS
25' C-C ON TAPERS OR LANE SHIFTS
12' C-C ON RADII

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Herdeth
CLIENT: City of Aurora
DATE PLOTTED: 7/26/2011 10:54:40 AM
PLOT DRIVER: mherdeth
PEN TABLE: Struct_22x34.tbl



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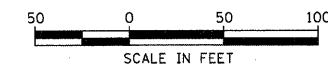
CITY OF AURORA

**SUGGESTED MAINTENANCE OF TRAFFIC PLAN
BENTON STREET**

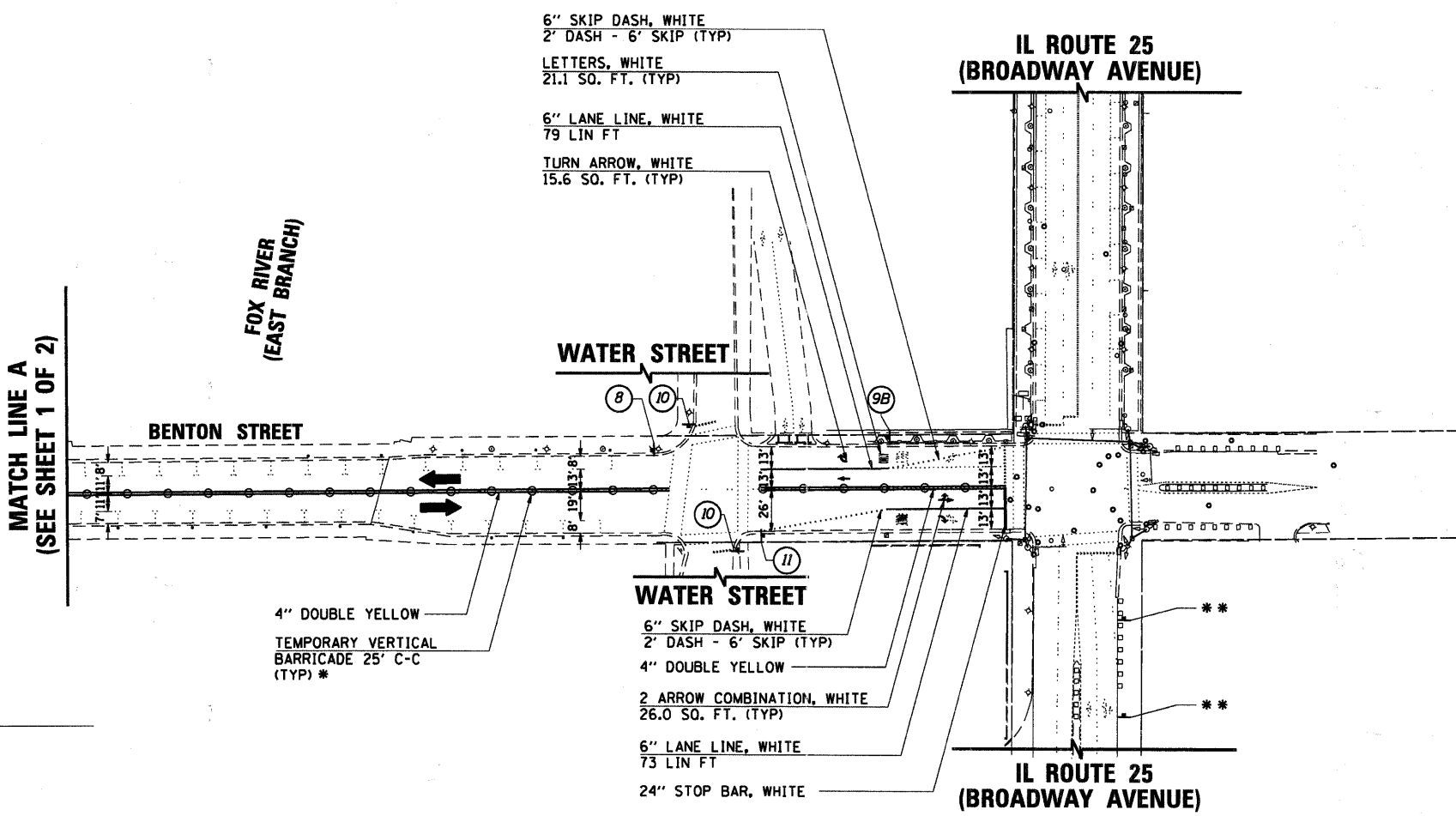
SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	15
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TEMPORARY TRAFFIC SIGNS



<p>① NO TURN ON RED R10-11A-2430</p> <p>LOCATIONS: 1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING WEST. 2. EASTBOUND MAST ARM 3' SOUTH OF THE OUTER SIGNAL HEAD FACING WEST.</p>	<p>③A 30 MIN PARKING R7-115-1218</p>	<p>⑦ W3-1A-36</p>	<p>⑨B R3-8-3636</p>	<p>⑬ ALL WAY R4-1-186</p>	<p>⑰ ROAD CLOSED TO THRU TRAFFIC R11-4-6030</p>	<p>TEMPORARY INFORMATION SIGNING</p> <p>⑲ DETOUR M4-9L(O)-3024</p> <p>⑳ DETOUR M4-9(O)-3024</p>	<p>⑳ ACCESS TO DOWNER PL ON STOLP ISLAND M6-1R(O)-2115</p> <p>㉑ ACCESS TO DOWNER PL ON STOLP ISLAND M6-1R(O)-2115</p>
<p>② ONE WAY R6-2-2430</p> <p>LOCATIONS: 1. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING EAST.</p>	<p>④ DO NOT ENTER R5-1-3030</p>	<p>⑧ W6-3-36</p>	<p>⑩ R1-1100-3018</p> <p>MOUNT BELOW STOP SIGN ON WATER STREET AT BENTON STREET</p>	<p>⑭ ROAD CONSTRUCTION AHEAD W20-1(O)-48</p>	<p>⑱A RIVERWALK OPEN AT DOWNER PLACE</p> <p>⑱B RIVERWALK CLOSED AT DOWNER PLACE</p>		
<p>②A ONE WAY R6-2-2430</p> <p>LOCATIONS: 1. TRAFFIC SIGNAL POST IN SOUTHWEST CORNER FACING EAST.</p>	<p>⑤ STOP R1-1-36</p>	<p>⑧A R3-8-3636</p>	<p>⑪ R3-8-3636</p> <p>SIDEWALK OPEN TO BUSINESSES</p> <p>TEMPORARY INFORMATION SIGNING</p> <p>SIDEWALK CLOSED AT BRIDGE</p>	<p>⑮ M6-1(O)-2115</p>	<p>⑱C DETOUR M4-9L(O)-3024</p>		
<p>③ ONLY R3-5R-3036</p>	<p>⑥ 3 WAY R1-3-3-126</p>	<p>⑧ W6-3-36</p>	<p>⑫ R11-2-4830</p> <p>ROAD CLOSED</p>	<p>⑯ M4-9L(O)-2115</p>	<p>⑱D DETOUR M4-9(O)-3024</p>		



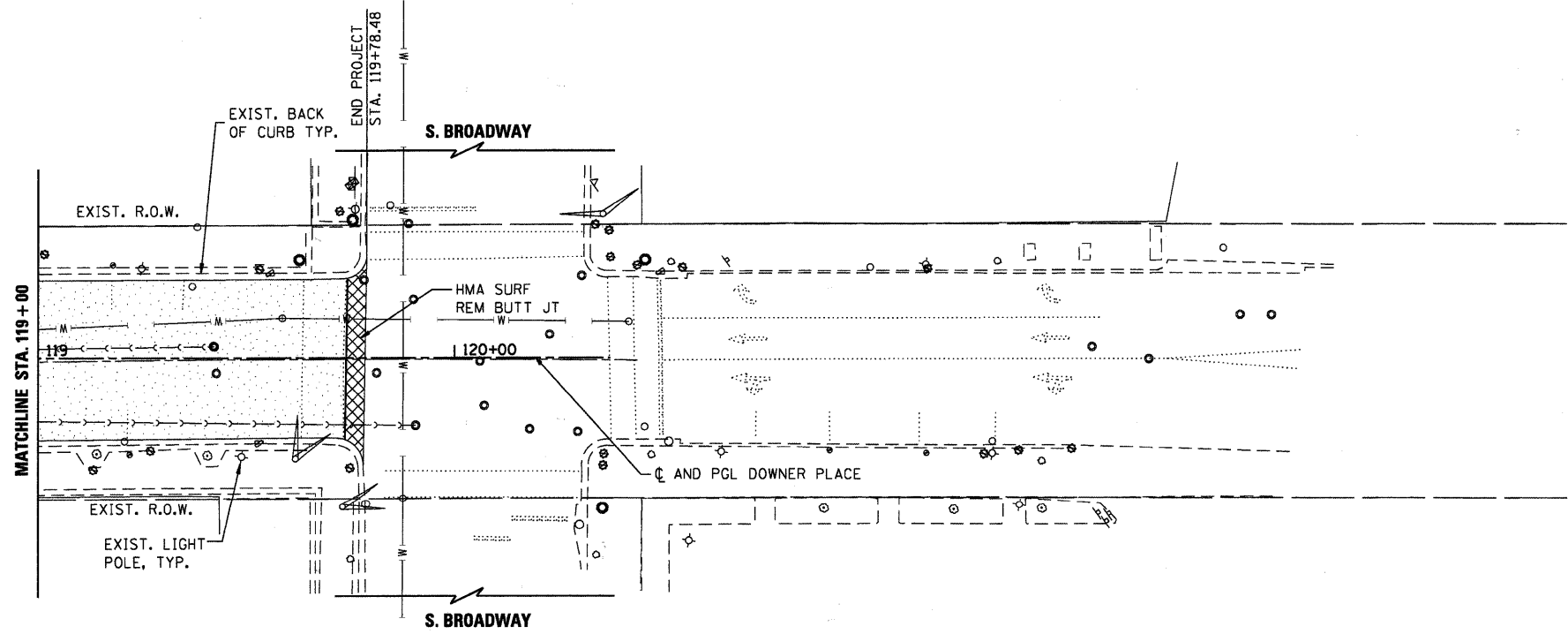
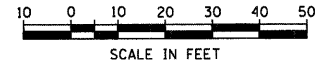
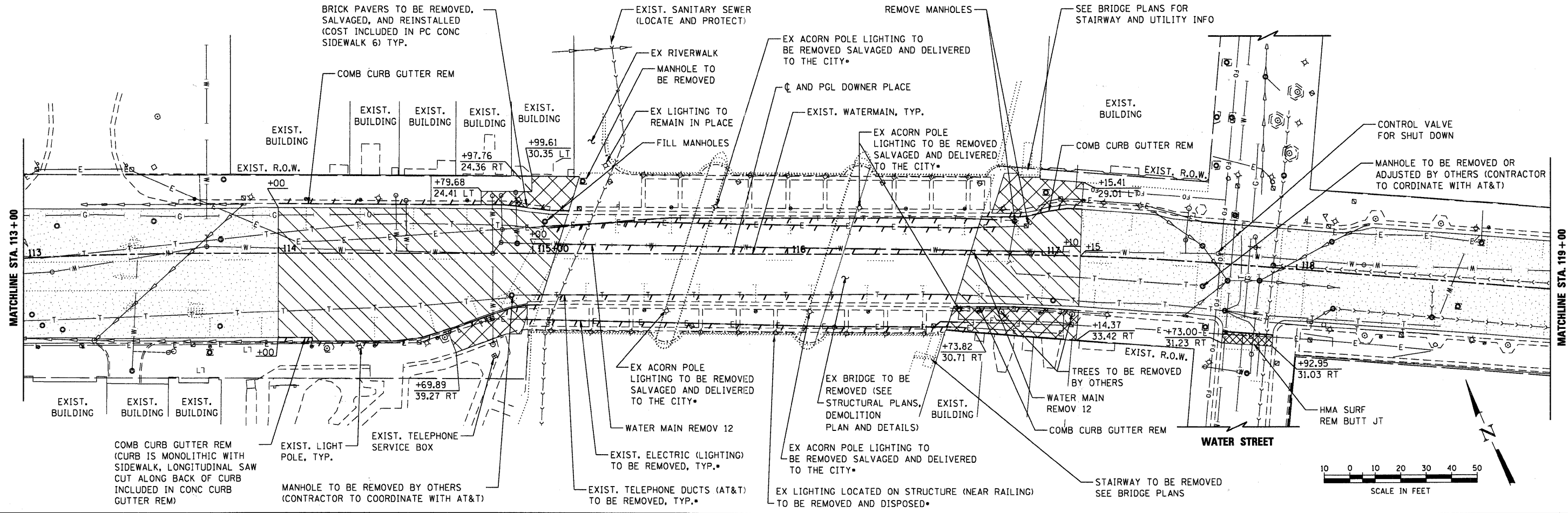
- * THE TEMPORARY VERTICAL BARRICADES SHALL INCLUDE THE FACTORY ADDED WIGHT AND BE RESET BY THE CONTRACTOR IF MOVED OUT OF ORIGINAL POSITION.
- ** SEE DETOUR PLAN FOR SIGNS.
- NOTES:
1. WORK ZONE PAVEMENT MARKINGS FOR THE MAINTENANCE OF TRAFFIC SHALL CONSIST OF PAVEMENT MARKING TAPE, TYPE III.
 2. THE LOCATIONS OF ALL SIGNS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST LOCATIONS TO FIT FIELD CONDITIONS.
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LEGEND

- CONTRACTOR WORK AREA
 - DRUM OR BARRICADE
 - TEMPORARY VERTICAL BARRICADE
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE III BARRICADES
 - TEMPORARY CONCRETE BARRIER
- DRUM OR BARRICADE SPACING:
50' C-C ON TANGENTS
25' C-C ON TAPERS OR LANE SHIFTS
12' C-C ON RADII

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 7/26/2011 10:55:49 AM
PLOT DRIVER: hrgreen-plot-02.demon.dgn
PEN TABLE: Struct 22x34.tbl

HRGreen.com Whole Professional Design Firm #184-001322	USER NAME = whood	DESIGNED - JMR	REVISED -	CITY OF AURORA	SUGGESTED MAINTENANCE OF TRAFFIC PLAN BENTON STREET		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 86090472-mat.02_benton.dgn	DRAWN - JMR	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	07-00264-00-BR	KANE	164	16
	PLOT SCALE =	CHECKED - APS	REVISED -				CONTRACT NO. 63620				
	PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- FULL DEPTH PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES

NOTES:
CONTRACTOR SHALL COORDINATE WITH OWNERS
AND MAINTAIN ACCESS TO THE BUSINESSES AT ALL TIMES

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harshbarger
 DATE PLOTTED: 7/26/2011 10:54:11 AM
 FILE NAME: 86090472-Rem02.dgn
 PLOT DRIVER: defplot
 PEN TABLE: Struct 2x34.tbl



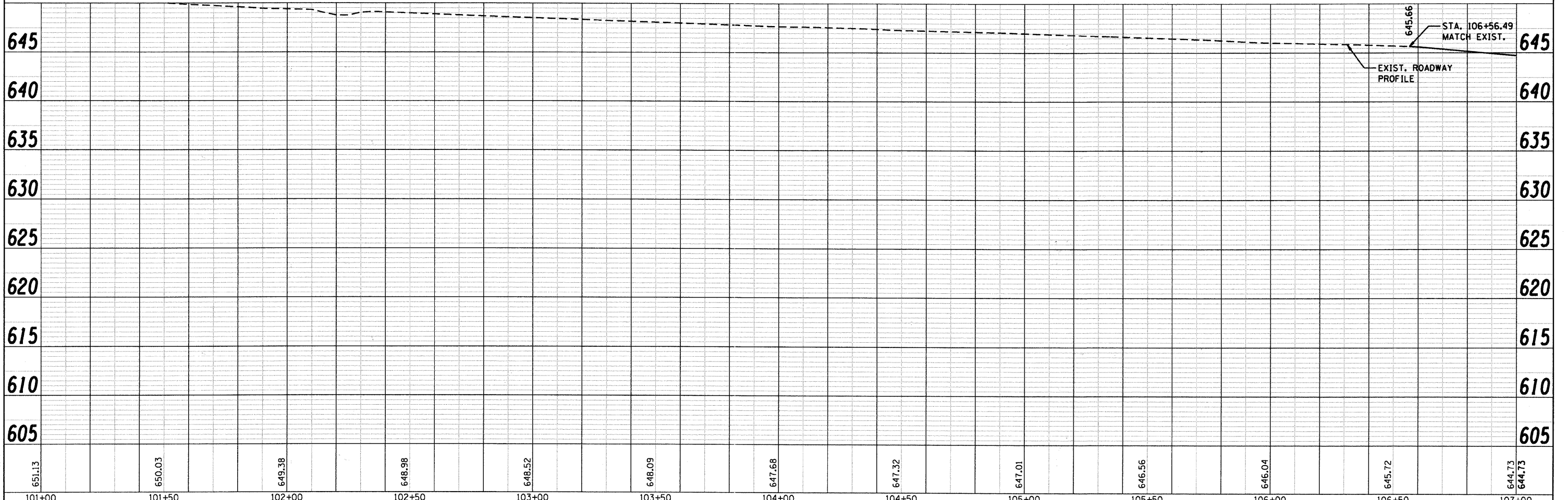
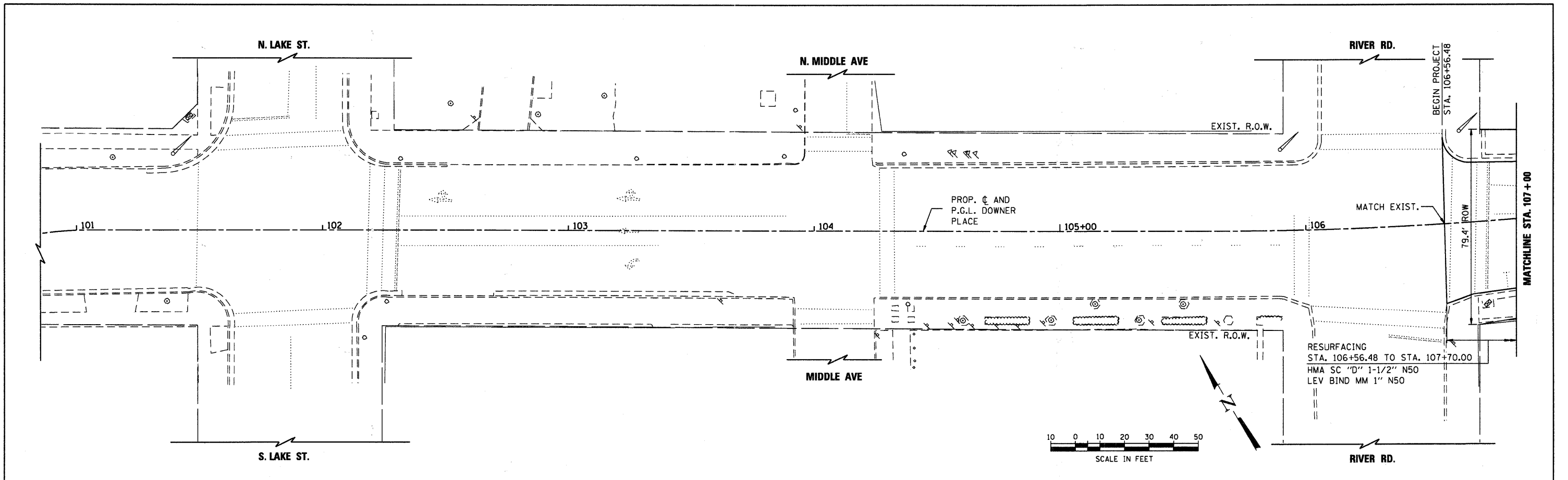
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PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**REMOVAL PLAN
DOWNER PLACE**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	18
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63620	



COMPANY NAME: HRGreen
 PROJECT CONTACT: Andrew C. Herdiny
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:54:18 AM
 FILE NAME: 86898472-pnp01.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: Struct 22x34.tbl

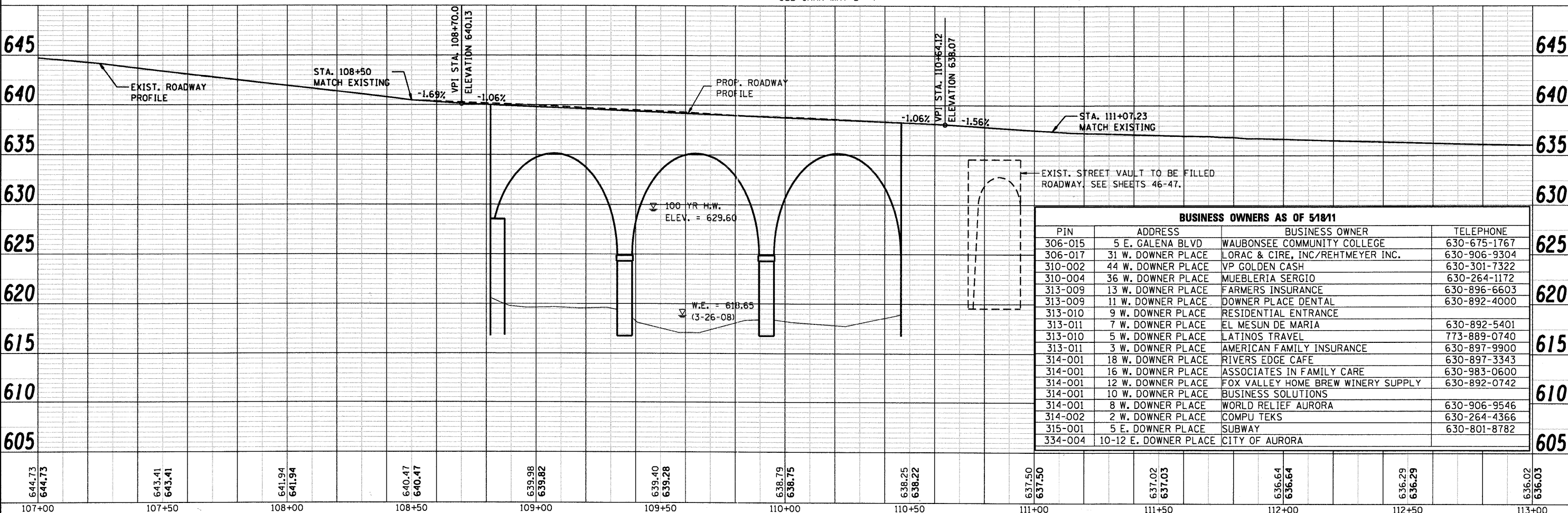
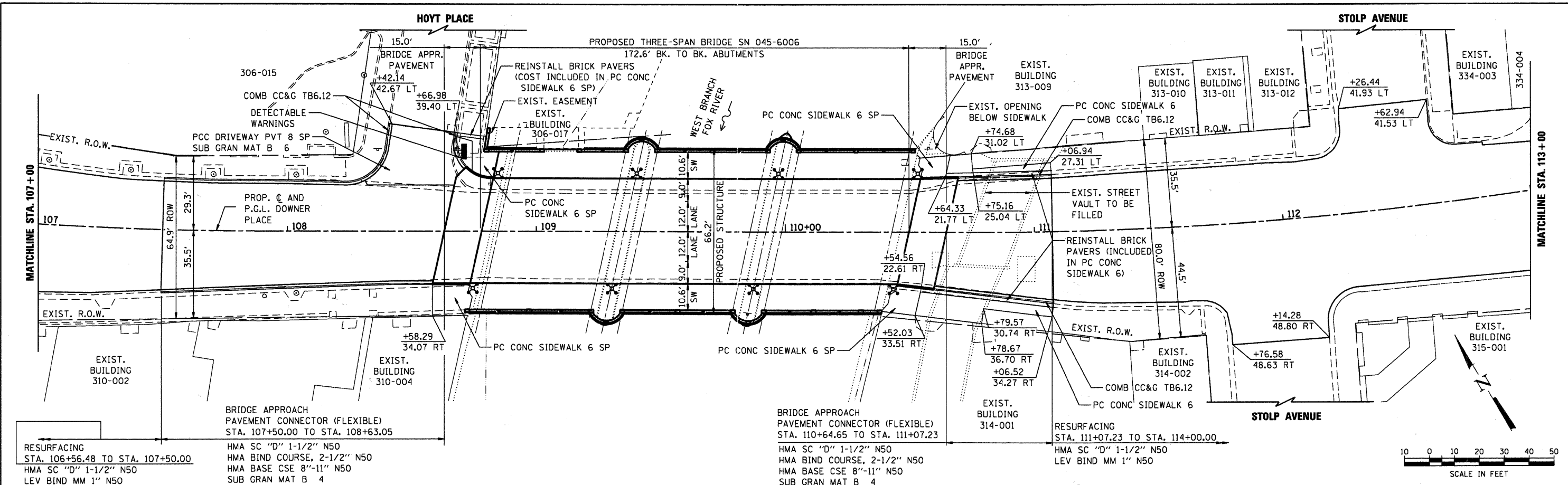
HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = whood	DESIGNED - JPG	REVISED -
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

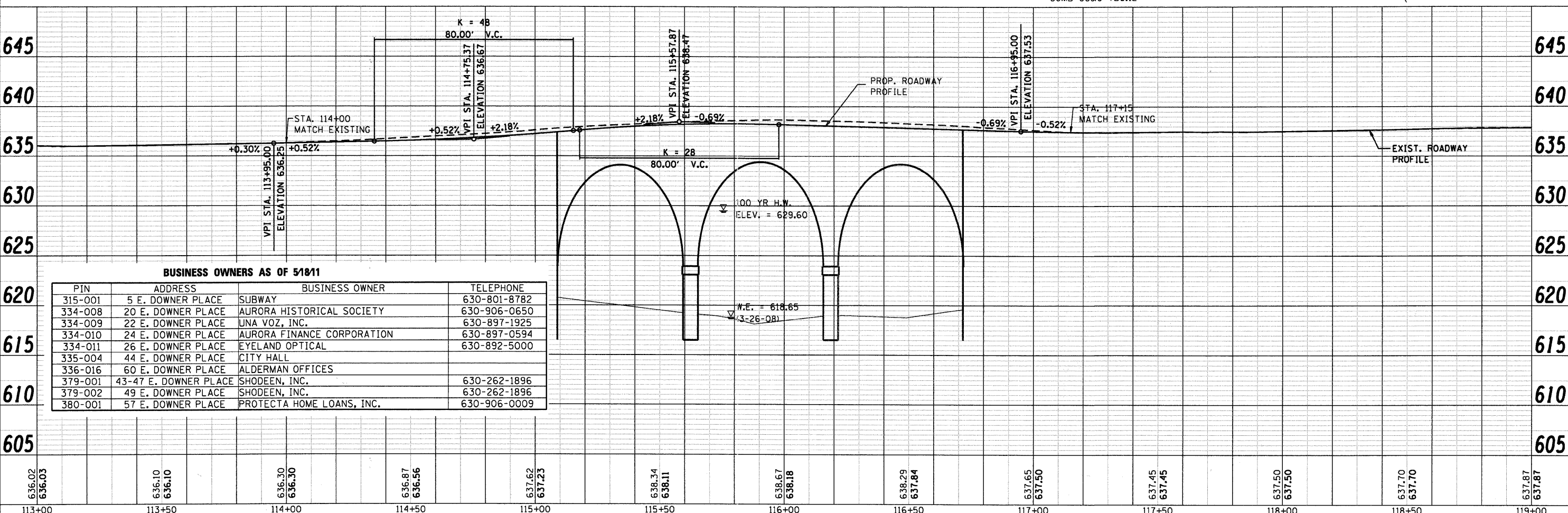
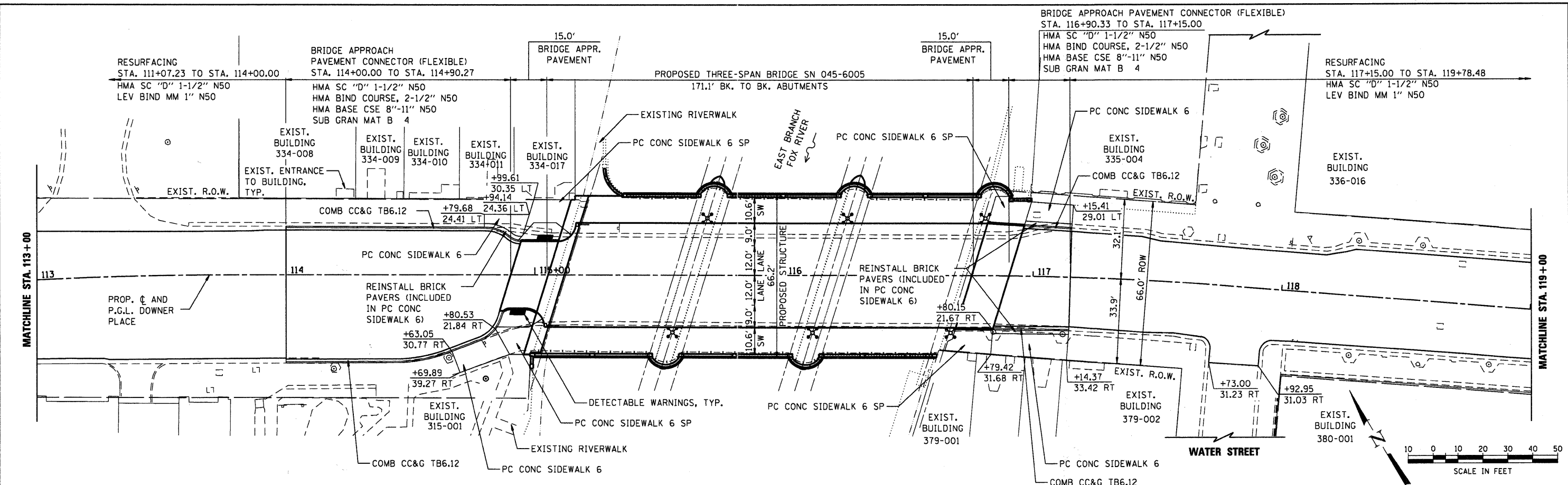
PLAN AND PROFILE
DOWNER PLACE
 SCALE: 1"=20' SHEET NO. 1 OF 4 SHEETS STA. 101+00 TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	19
CONTRACT NO. 63620			FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT	



COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:56:25 AM
 FILE NAME: 86090472-prp02.dgn
 PLOT NUMBER: 64194
 PLOT TABLE: S:\PROJECT\22534.tbl

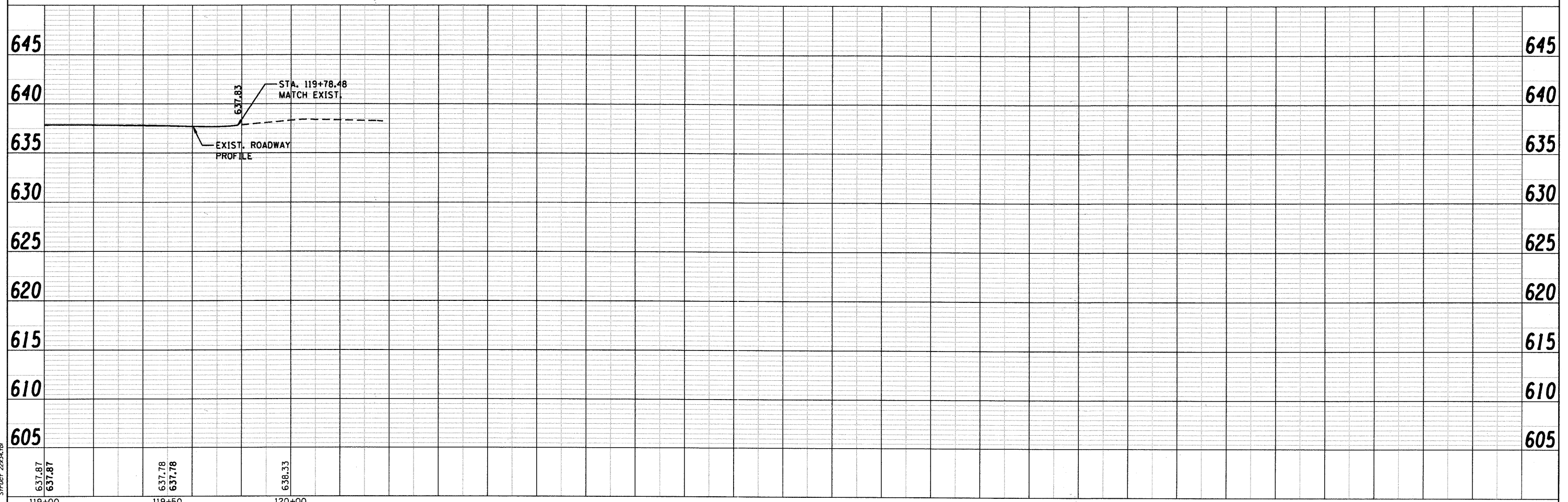
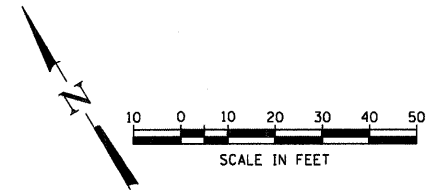
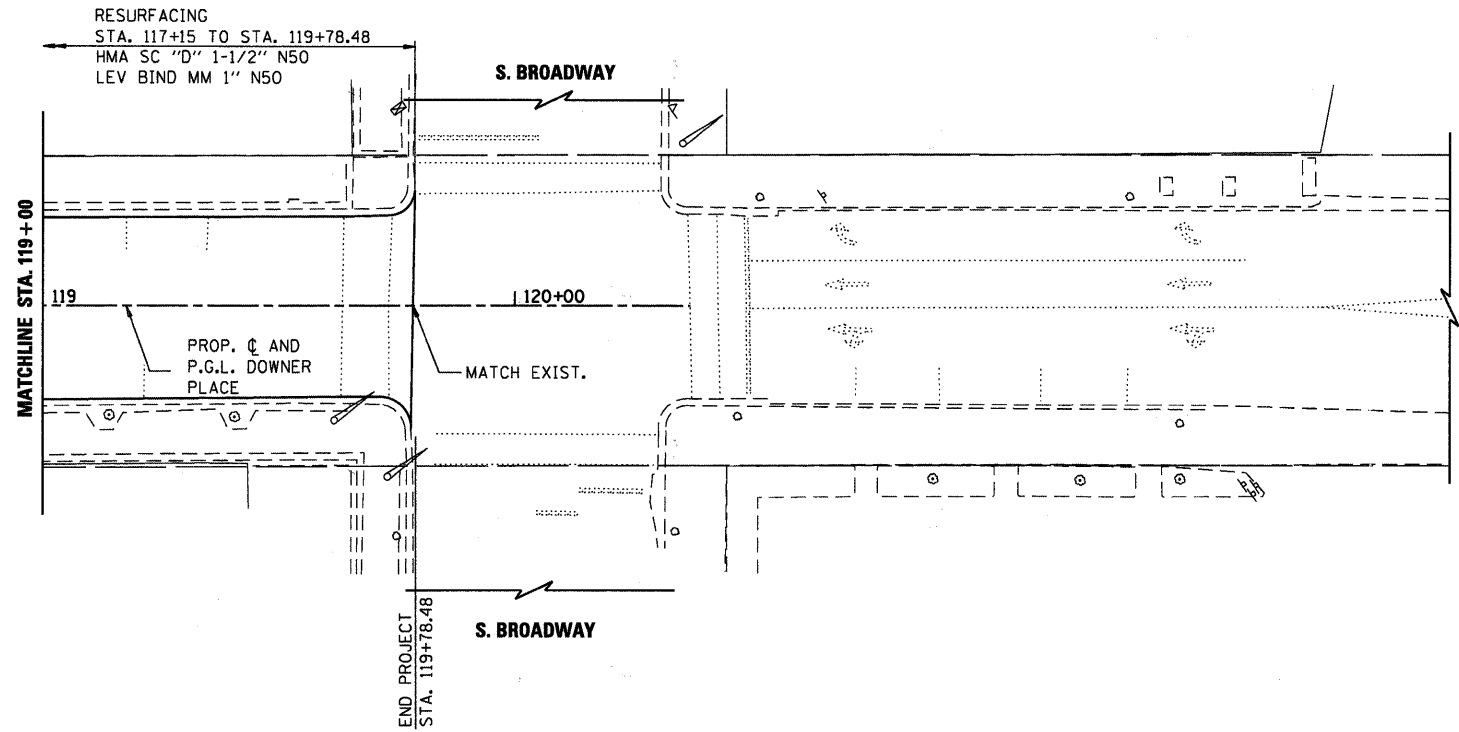
HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = whood FILE NAME = 86090472-prp02.dgn PLOT SCALE = 1"=20' PLOT DATE = 7/26/2011	DESIGNED - JPG DRAWN - WJH CHECKED - RGD DATE - 7/26/11	REVISED - REVISED - REVISED - REVISED -	CITY OF AURORA	PLAN AND PROFILE DOWNER PLACE	F.A.U. RTE. SECTION 07-00264-00-BR COUNTY KANE TOTAL SHEETS 164 SHEET NO. 20 CONTRACT NO. 63620	SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 107+00 TO STA. 113+00 FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT
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BUSINESS OWNERS AS OF 5/18/11

PIN	ADDRESS	BUSINESS OWNER	TELEPHONE
315-001	5 E. DOWNER PLACE	SUBWAY	630-801-8782
334-008	20 E. DOWNER PLACE	AURORA HISTORICAL SOCIETY	630-906-0650
334-009	22 E. DOWNER PLACE	UNA VOZ, INC.	630-897-1925
334-010	24 E. DOWNER PLACE	AURORA FINANCE CORPORATION	630-897-0594
334-011	26 E. DOWNER PLACE	EYELAND OPTICAL	630-892-5000
335-004	44 E. DOWNER PLACE	CITY HALL	
336-016	60 E. DOWNER PLACE	ALDERMAN OFFICES	
379-001	43-47 E. DOWNER PLACE	SHODEEN, INC.	630-262-1896
379-002	49 E. DOWNER PLACE	SHODEEN, INC.	630-262-1896
380-001	57 E. DOWNER PLACE	PROTECTA HOME LOANS, INC.	630-906-0009

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:56:33 AM
 FILE NAME: 07-00264-00-03.dgn
 PLOT NUMBER: 03
 PER TABLE: Struct 22x34.tbl



COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
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 PLOT DRIVER: ppp04.plt
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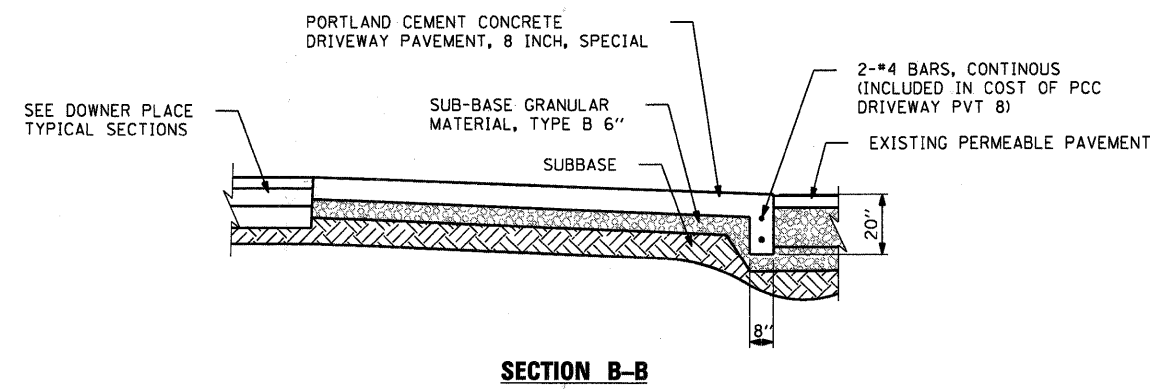
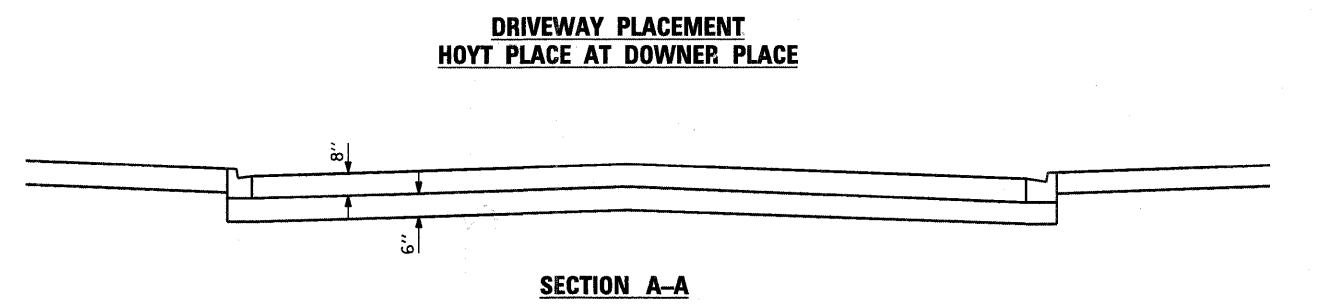
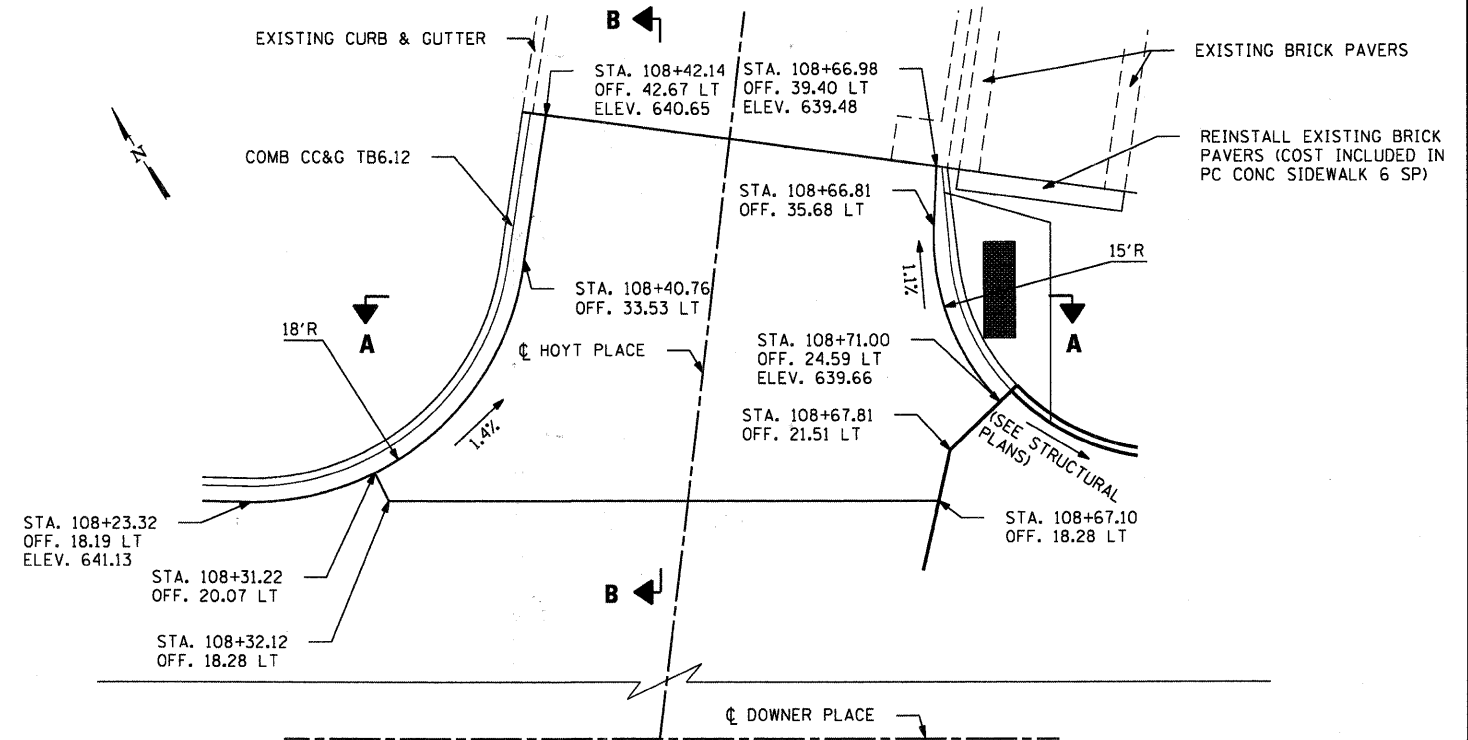
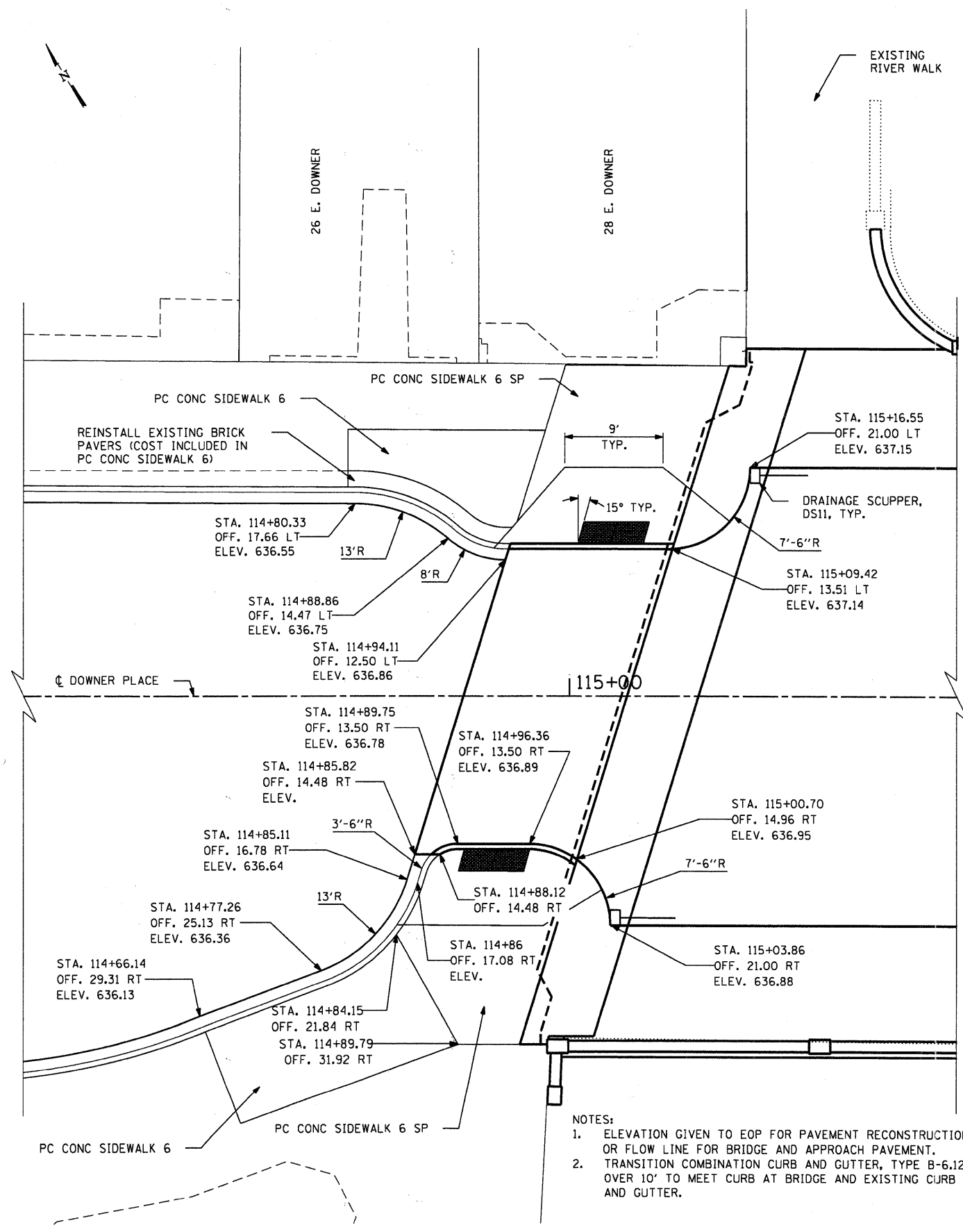
637.87 637.87	119+00	637.78 637.78	119+50	638.33	120+00
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FILE NAME = 06090472-ppp04.dgn		DRAWN - WJH		REVISED -	
PLOT SCALE = 1"=20'		CHECKED - RGD		REVISED -	
PLOT DATE = 7/26/2011		DATE - 7/26/11		REVISED -	

CITY OF AURORA

**PLAN AND PROFILE
DOWNER PLACE**

SCALE: 1"=20' SHEET NO. 4 OF 4 SHEETS STA. 119+00 TO STA. 119+78.48

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	22
CONTRACT NO. 63620			FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT	



- NOTES:
- ELEVATION GIVEN TO EOP FOR PAVEMENT RECONSTRUCTION OR FLOW LINE FOR BRIDGE AND APPROACH PAVEMENT.
 - TRANSITION COMBINATION CURB AND GUTTER, TYPE B-6.12 OVER 10' TO MEET CURB AT BRIDGE AND EXISTING CURB AND GUTTER.

PEDESTRAIN BUMP-OUT DETAIL

HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 86090472-INT.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: Struct 20x34.tbl



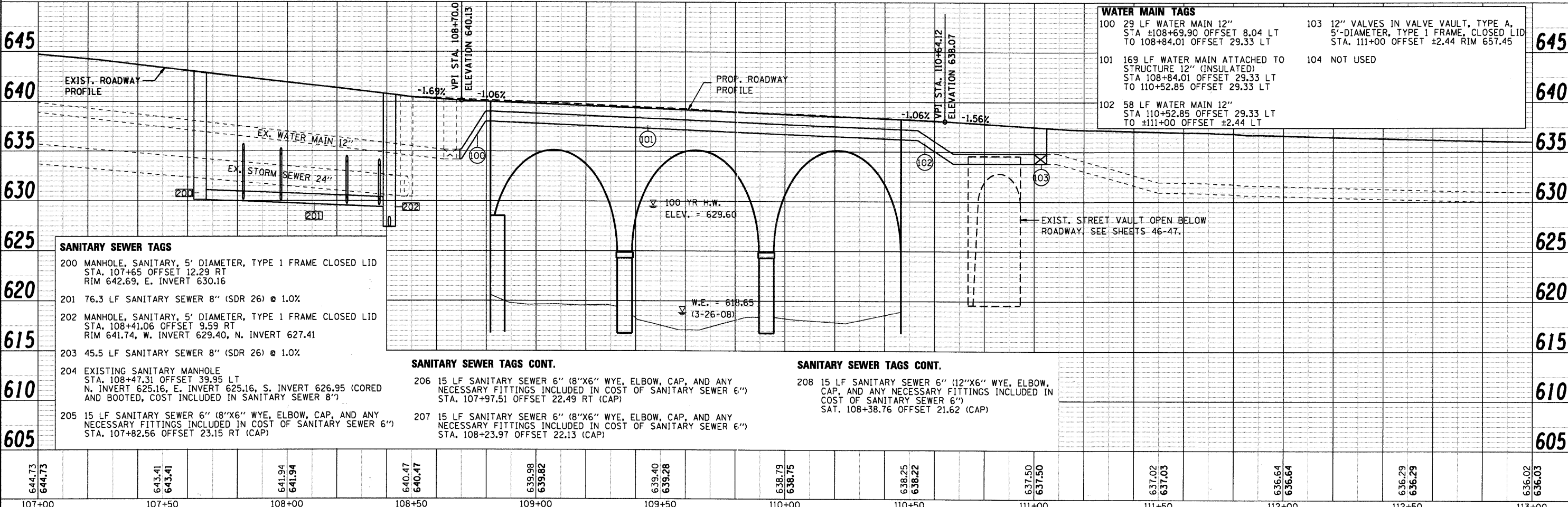
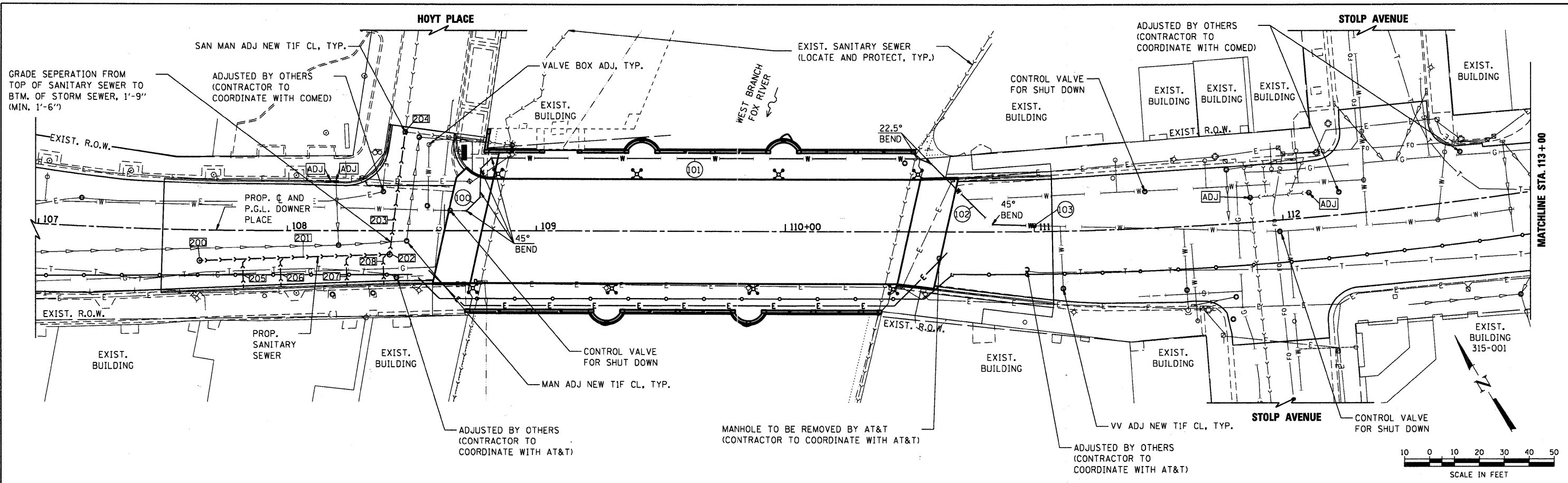
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FILE NAME = 86090472-INT.dgn	DRAWN - WJH	REVISED -
PLOT SCALE =	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**INTERSECTION GRADING PLAN
 DOWNER PLACE**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	23
CONTRACT NO. 63620				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



WATER MAIN TAGS	
100 29 LF WATER MAIN 12" STA ±108+69.90 OFFSET 8.04 LT TO 108+84.01 OFFSET 29.33 LT	103 12" VALVES IN VALVE VAULT, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID STA. 111+00 OFFSET ±2.44 RIM 657.45
101 169 LF WATER MAIN ATTACHED TO STRUCTURE 12" (INSULATED) STA 108+84.01 OFFSET 29.33 LT TO 110+52.85 OFFSET 29.33 LT	104 NOT USED
102 58 LF WATER MAIN 12" STA 110+52.85 OFFSET 29.33 LT TO ±111+00 OFFSET ±2.44 LT	

SANITARY SEWER TAGS	
200 MANHOLE, SANITARY, 5' DIAMETER, TYPE 1 FRAME CLOSED LID STA. 107+65 OFFSET 12.29 RT RIM 642.69, E. INVERT 630.16	
201 76.3 LF SANITARY SEWER 8" (SDR 26) @ 1.0%	
202 MANHOLE, SANITARY, 5' DIAMETER, TYPE 1 FRAME CLOSED LID STA. 108+41.06 OFFSET 9.59 RT RIM 641.74, W. INVERT 629.40, N. INVERT 627.41	
203 45.5 LF SANITARY SEWER 8" (SDR 26) @ 1.0%	
204 EXISTING SANITARY MANHOLE STA. 108+47.31 OFFSET 39.95 LT N. INVERT 625.16, E. INVERT 625.16, S. INVERT 626.95 (CORED AND BOOTED, COST INCLUDED IN SANITARY SEWER 8")	
205 15 LF SANITARY SEWER 6" (8"X6" WYE, ELBOW, CAP, AND ANY NECESSARY FITTINGS INCLUDED IN COST OF SANITARY SEWER 6") STA. 107+82.56 OFFSET 23.15 RT (CAP)	

SANITARY SEWER TAGS CONT.	
206 15 LF SANITARY SEWER 6" (8"X6" WYE, ELBOW, CAP, AND ANY NECESSARY FITTINGS INCLUDED IN COST OF SANITARY SEWER 6") STA. 107+97.51 OFFSET 22.49 RT (CAP)	
207 15 LF SANITARY SEWER 6" (8"X6" WYE, ELBOW, CAP, AND ANY NECESSARY FITTINGS INCLUDED IN COST OF SANITARY SEWER 6") STA. 108+23.97 OFFSET 22.13 (CAP)	

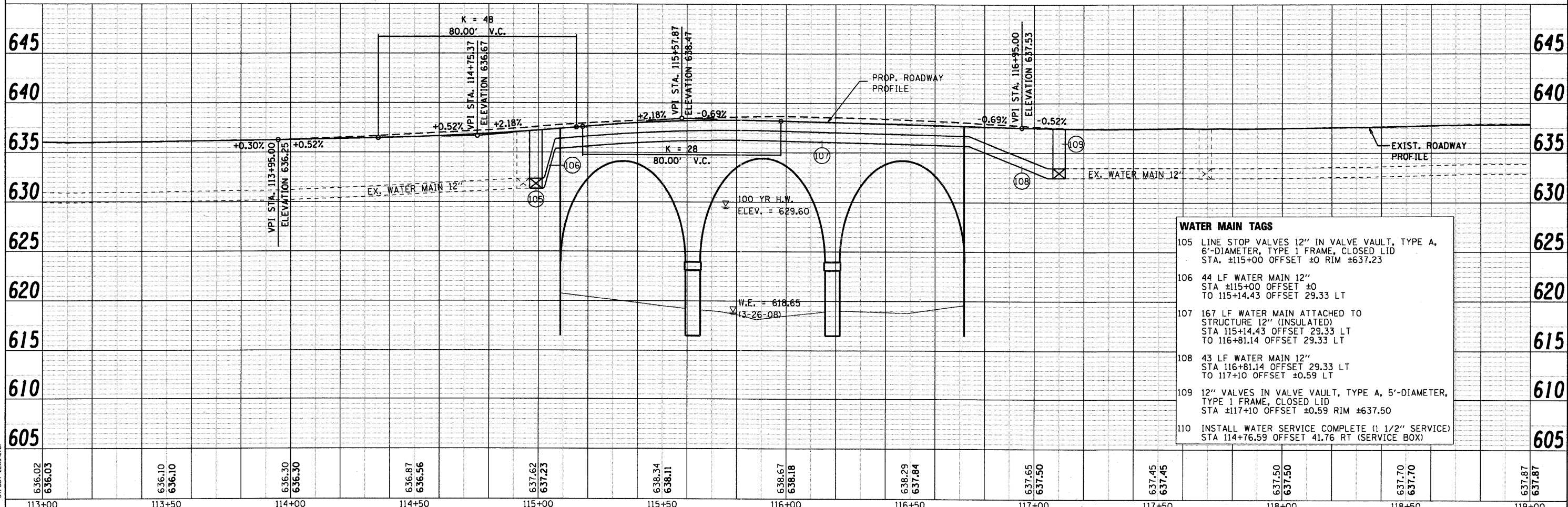
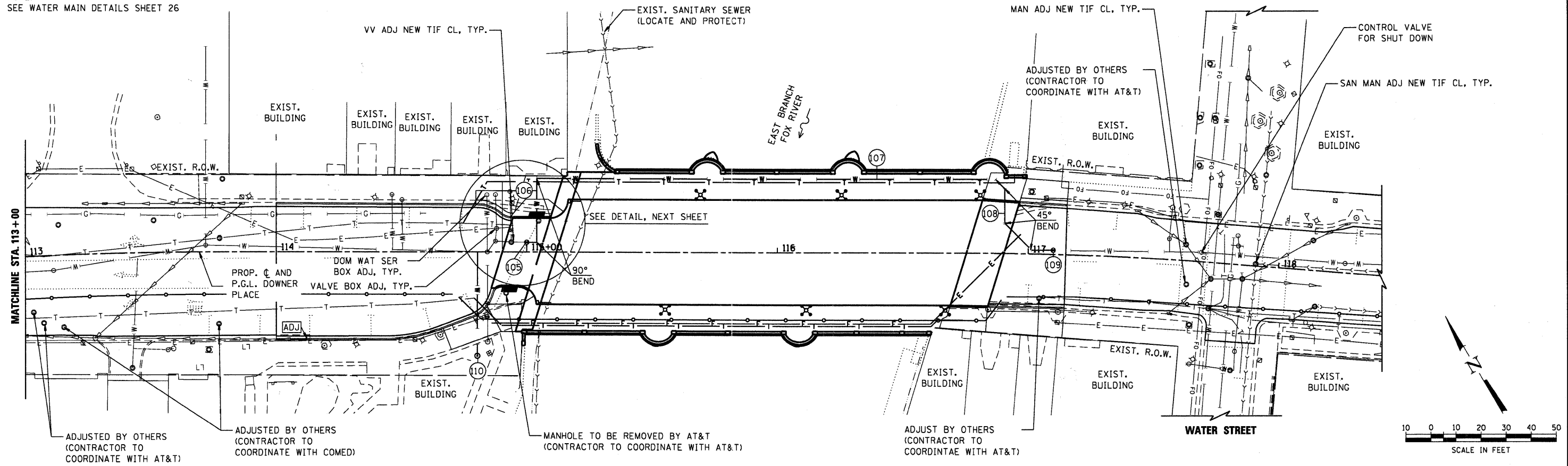
SANITARY SEWER TAGS CONT.	
208 15 LF SANITARY SEWER 6" (12"X6" WYE, ELBOW, CAP, AND ANY NECESSARY FITTINGS INCLUDED IN COST OF SANITARY SEWER 6") STA. 108+38.76 OFFSET 21.62 (CAP)	

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:54:54 AM
 FILE NAME: 86090472-util-pnp01.dgn
 PLOT SCALE: 1"=20'
 PEN TABLE: 22x34.tbl

644.73	643.41	641.94	640.47	639.98	639.40	638.79	638.25	637.50	637.02	636.64	636.29	636.02
644.73	643.41	641.94	640.47	639.82	639.28	638.75	638.22	637.50	637.03	636.64	636.29	636.03
107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00	112+50	113+00

	USER NAME = whood FILE NAME = 86090472-util-pnp01.dgn PLOT SCALE = 1"=20' PLOT DATE = 7/26/2011	DESIGNED - JPG DRAWN - WJH CHECKED - MGH DATE - 7/26/11	REVISED - REVISED - REVISED - REVISED -	CITY OF AURORA	UTILITY PLAN AND PROFILE DOWNER PLACE			F.A.U. RTE.	SECTION 07-00264-00-BR	COUNTY KANE	TOTAL SHEETS 164	SHEET NO. 24
	SCALE: 1"=20'				SHEET NO. 1 OF 2 SHEETS	STA. 107+00 TO STA. 113+00	CONTRACT NO. 63620		FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			

NOTE:
SEE WATER MAIN DETAILS SHEET 26



WATER MAIN TAGS	
105	LINE STOP VALVES 12" IN VALVE VAULT, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID STA. ±115+00 OFFSET ±0 RIM ±637.23
106	44 LF WATER MAIN 12" STA ±115+00 OFFSET ±0 TO 115+14.43 OFFSET 29.33 LT
107	167 LF WATER MAIN ATTACHED TO STRUCTURE 12" (INSULATED) STA 115+14.43 OFFSET 29.33 LT TO 116+81.14 OFFSET 29.33 LT
108	43 LF WATER MAIN 12" STA 116+81.14 OFFSET 29.33 LT TO 117+10 OFFSET ±0.59 LT
109	12" VALVES IN VALVE VAULT, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID STA ±117+10 OFFSET ±0.59 RIM ±637.50
110	INSTALL WATER SERVICE COMPLETE (1 1/2" SERVICE) STA 114+76.59 OFFSET 41.76 RT (SERVICE BOX)

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harrold
 CLIENT: City of Aurora
 FILE NAME: 86890472-utl1-pnp02.dgn
 PLOT DRIVER: pnp02.dgn
 PEN TABLE: Struct 22x34.tbl

636.02 636.03	636.10 636.10	636.30 636.30	636.87 636.56	637.62 637.23	638.34 638.11	638.67 638.18	638.29 637.84	637.65 637.50	637.45 637.45	637.50 637.50	637.70 637.70	637.87 637.87
113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

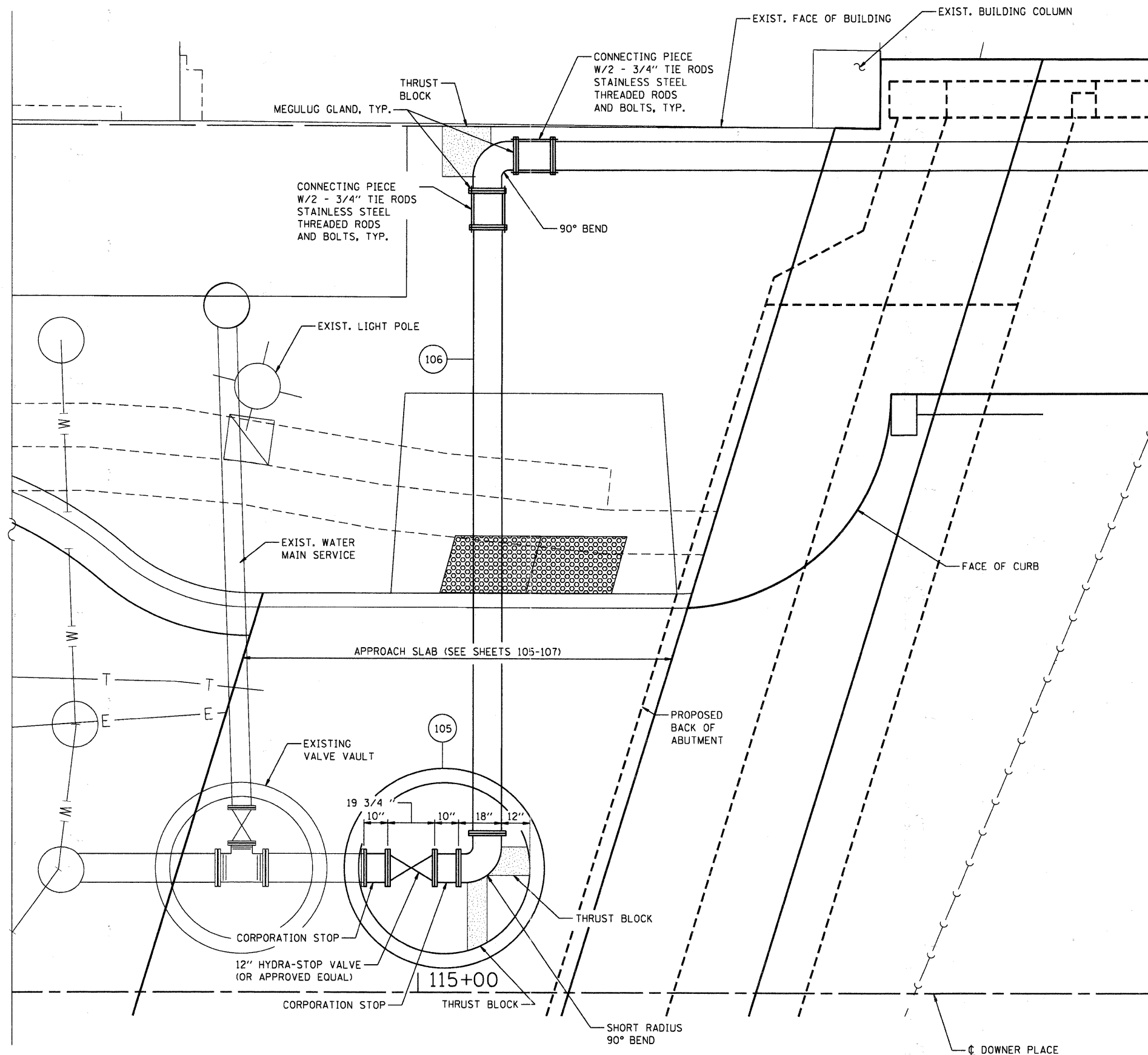
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PLOT SCALE = 1"=20'	CHECKED - MGH	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**UTILITY PLAN AND PROFILE
DOWNER PLACE**

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 107+00 TO STA. 113+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	25
CONTRACT NO. 63620			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT	



**LINE STOP VALVES 12" IN
VALVE VAULTS, TYPE A, 6' DIAMETER,
TYPE 1 FRAME, CLOSED LID DETAIL**

- NOTES:
 1. SEE PREVIOUS PAGE FOR WATER MAIN TAGS.
 2. ALL 90° BENDS SHALL BE RESTRAINED AS DETAILED ON THIS SHEET (COST INCLUDED IN WATER MAIN 12").

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/11 10:08 AM
 FILE NAME: 86090472-uti1-de.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: Struct 20x34.tbl



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FILE NAME =	86090472-uti1-de.dgn
PLOT SCALE =	
PLOT DATE =	7/26/2011

DESIGNED -	JPG
DRAWN -	WJH
CHECKED -	MCH
DATE -	7/26/11

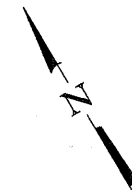
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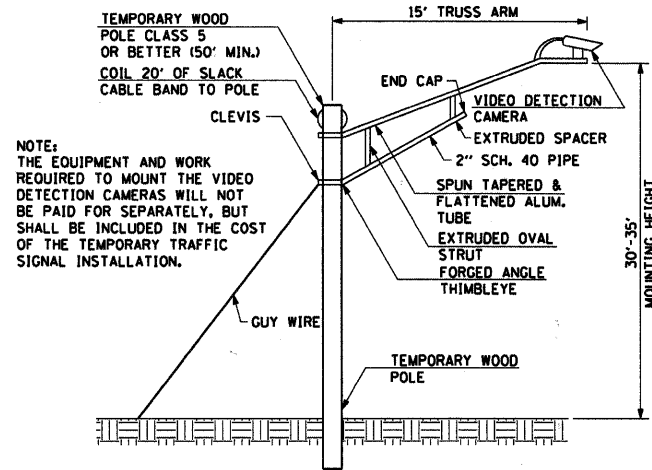
CITY OF AURORA

**UTILITY DETAILS
DOWNER PLACE**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

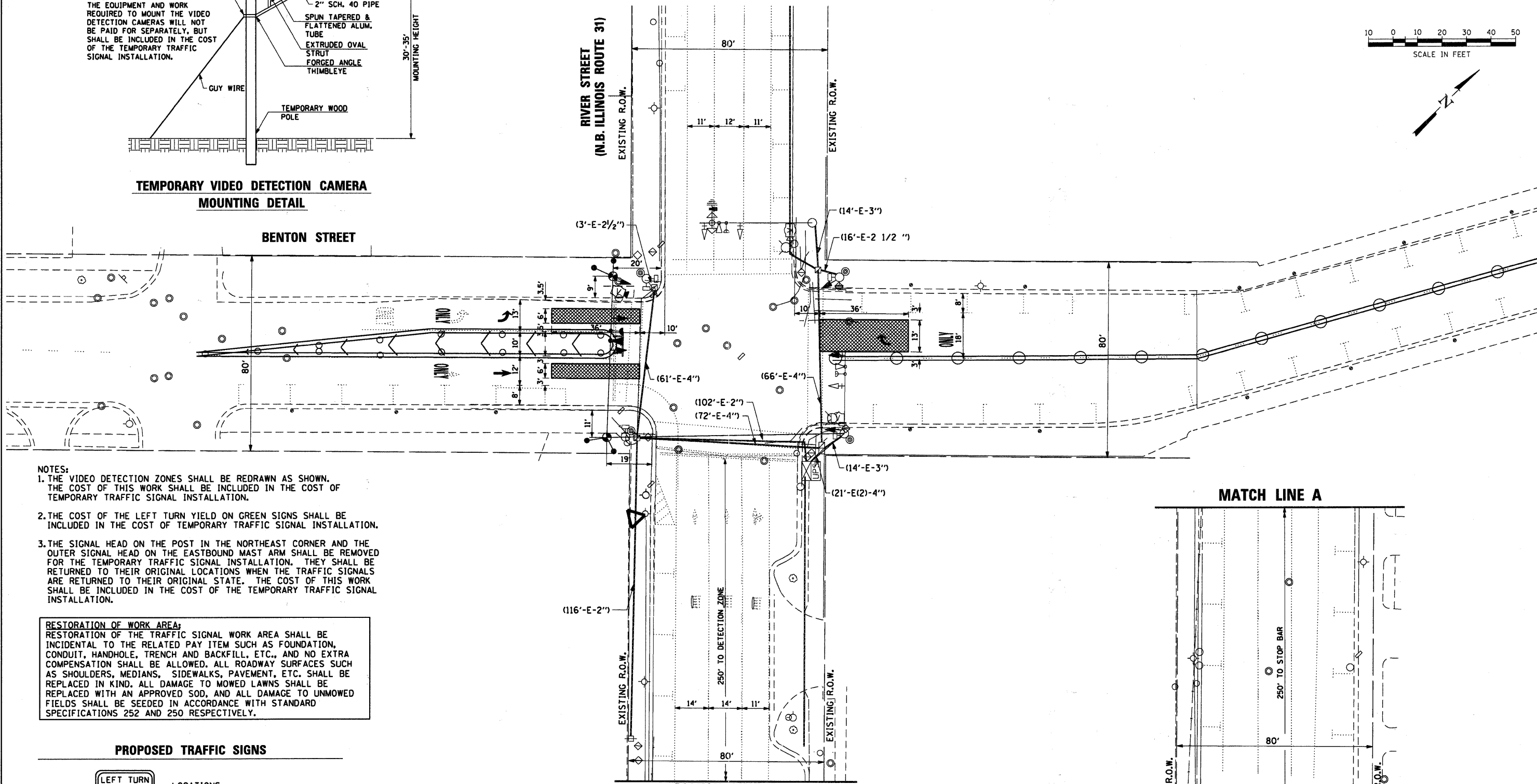
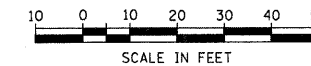
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	26
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63620	





NOTE:
THE EQUIPMENT AND WORK REQUIRED TO MOUNT THE VIDEO DETECTION CAMERAS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

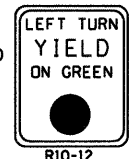
TEMPORARY VIDEO DETECTION CAMERA MOUNTING DETAIL



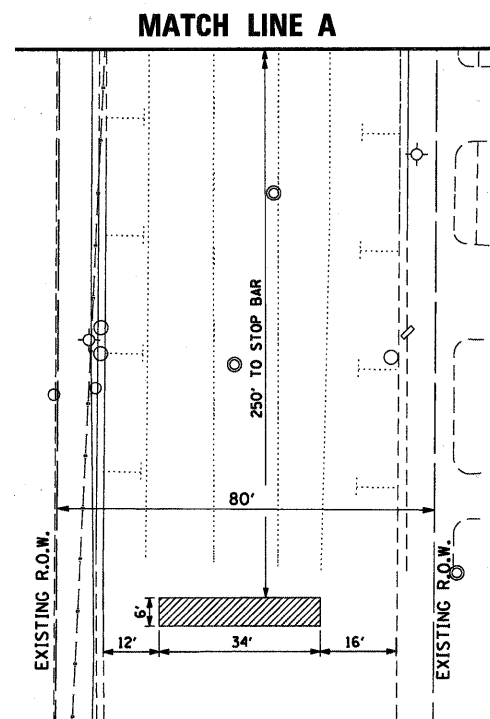
- NOTES:**
1. THE VIDEO DETECTION ZONES SHALL BE REDRAWN AS SHOWN. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.
 2. THE COST OF THE LEFT TURN YIELD ON GREEN SIGNS SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.
 3. THE SIGNAL HEAD ON THE POST IN THE NORTHEAST CORNER AND THE OUTER SIGNAL HEAD ON THE EASTBOUND MAST ARM SHALL BE REMOVED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THEY SHALL BE RETURNED TO THEIR ORIGINAL LOCATIONS WHEN THE TRAFFIC SIGNALS ARE RETURNED TO THEIR ORIGINAL STATE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE 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 SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

PROPOSED TRAFFIC SIGNS



- LOCATIONS:**
1. EASTBOUND MAST ARM, 3' SOUTH OF THE OUTER 5-SECTION SIGNAL HEAD.
 2. TRAFFIC SIGNAL POST IN NORTHEAST CORNER FACING WEST.



HRGREEN
PROJECT CONTACT: Richard A. Harshbarger
DATE PLOTTED: 7/26/2011 10:55:11 AM
FILE NAME: 86090472-181901a.dgn
PLOT DRIVER: pdfplot
PEN TABLE: Struct 22x34.tbl



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FILE NAME = 86090472-181901a.dgn	DRAWN - JMR	REVISED -
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

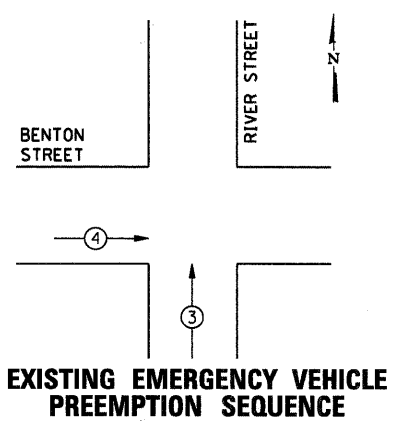
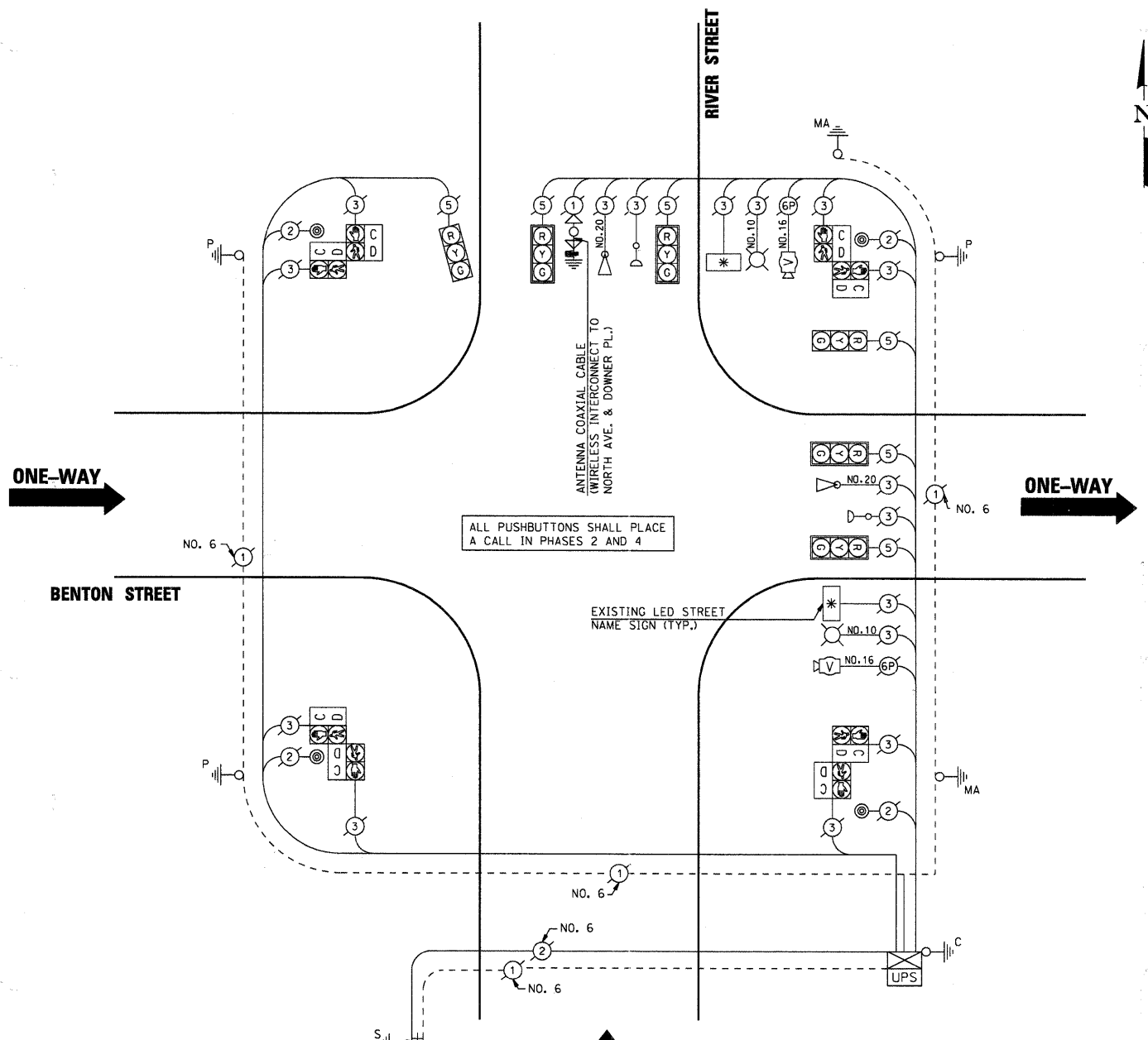
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
BENTON ST. AND RIVER ST. (IL RT. 31)**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

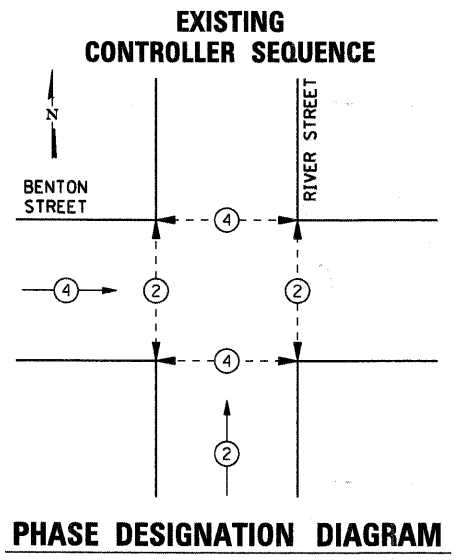
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	27
CONTRACT NO. 63620				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 86090472-1s1g@b1.dgn
 FILE MANAGER: 86090472-1s1g@b1.dgn
 PLOT DRIVER: pdt1
 PEN TABLE: Struct 22x34.tbl

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	6		17	0.50	51.0
(YELLOW)	6		25	0.25	37.5
(GREEN)	6		15	0.25	22.5
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200.0
CONTROLLER	1		100	1.00	100.0
UPS	1		25	1.00	25.0
LED SIGN	2		60	0.50	60.0
VIDEO SYSTEM	1		15	1.00	15.0
TOTAL =					511.0
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: MARK SCHERIBEL PHONE: (630) 723-2128 COMPANY: COMMONWEALTH EDISON					



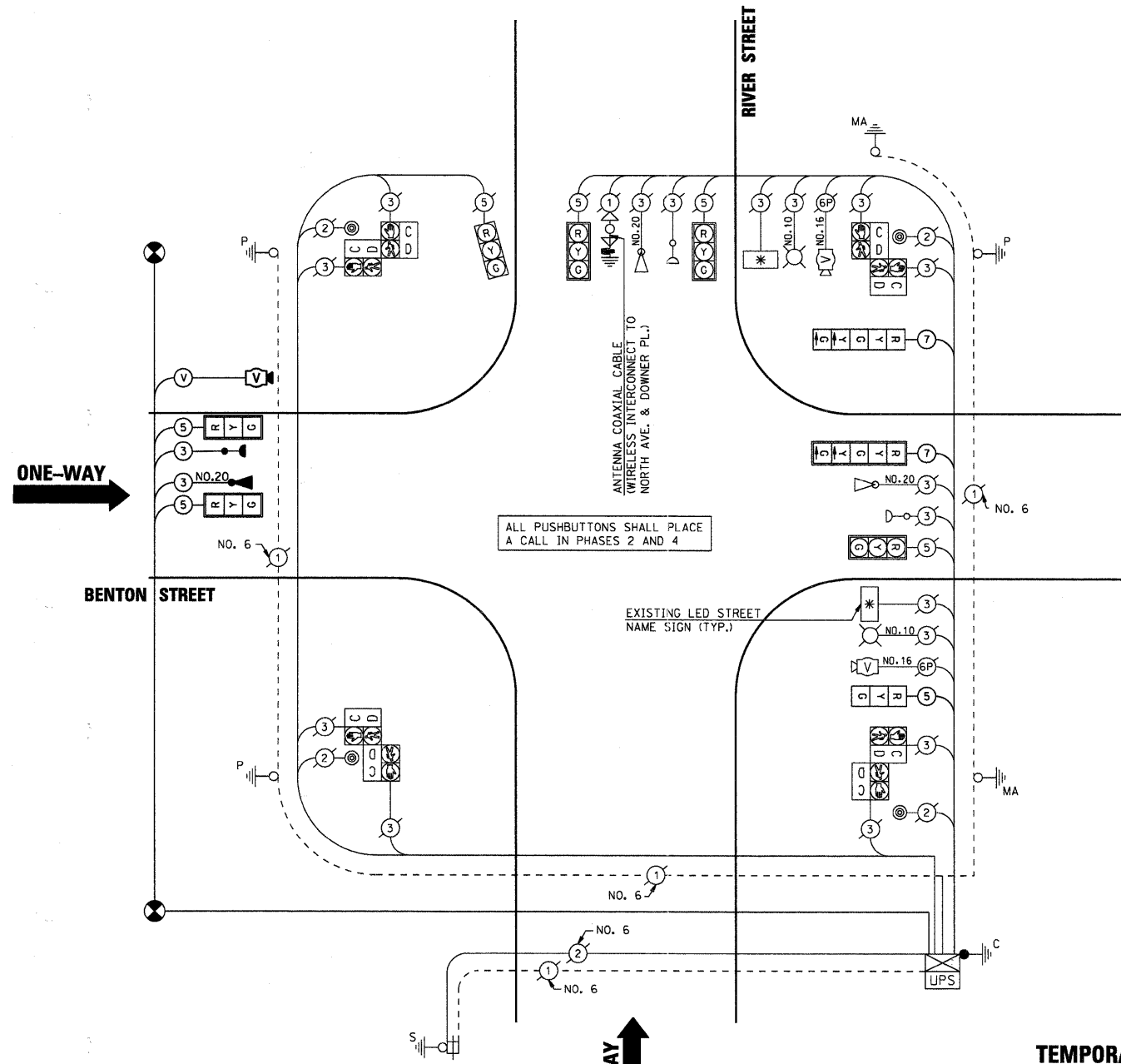
EXISTING EMERGENCY VEHICLE PREEMPTORS		
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→



CONTROLLER SEQUENCE LEGEND	
← ⊙ →	DUAL ENTRY PHASE
← ⊙	SINGLE ENTRY PHASE
← ⊙ OL	OVERLAP
*	NUMBER REFERRING TO ASSOCIATED PHASE
← ⊙ →	PEDESTRIAN PHASE

SCHEDULE OF QUANTITIES

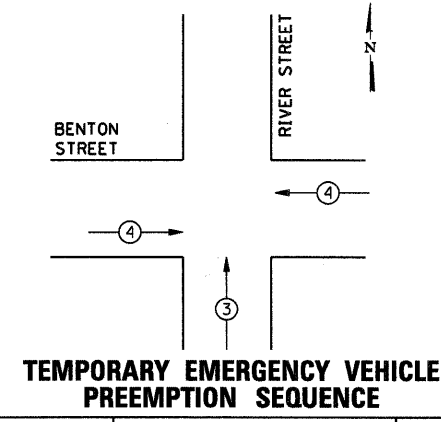
PAY ITEM DESCRIPTION	UNIT	RIVER STREET
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



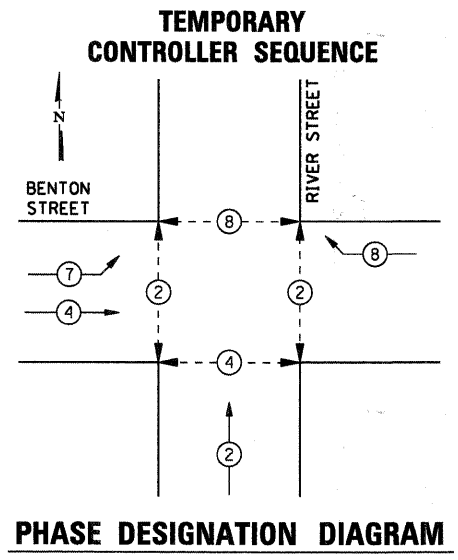
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.3
(GREEN)	9		15	0.25	33.8
ARROW	4		12	0.10	4.8
PED. SIGNAL	8		25	1.00	200.0
CONTROLLER	1		100	1.00	100.0
UPS	1		25	1.00	25.0
LED SIGN	2		60	0.50	60.0
VIDEO SYSTEM	1		15	1.00	15.0
TOTAL =					571.4

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: MARK SCHERIBEL
PHONE: (630) 723-2128
COMPANY: COMMONWEALTH EDISON



TEMPORARY EMERGENCY VEHICLE PREEMPTORS	
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	↑ ↔



CONTROLLER SEQUENCE LEGEND	
← ⊙ →	DUAL ENTRY PHASE
← ⊙	SINGLE ENTRY PHASE
← ⊙ OL →	OVERLAP
*	NUMBER REFERRING TO ASSOCIATED PHASE
← ⊙ →	PEDESTRIAN PHASE

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 86090472-1630102.dgn
 PLOT DRIVER: pofeat
 PEN TABLE: Struct_22x34.tbl



USER NAME = whood
FILE NAME = 86090472-1630102.dgn
PLOT SCALE =
PLOT DATE = 7/26/2011

DESIGNED - MJF
DRAWN - JMR
CHECKED - APS
DATE - 7/26/11

REVISED -
REVISED -
REVISED -
REVISED -

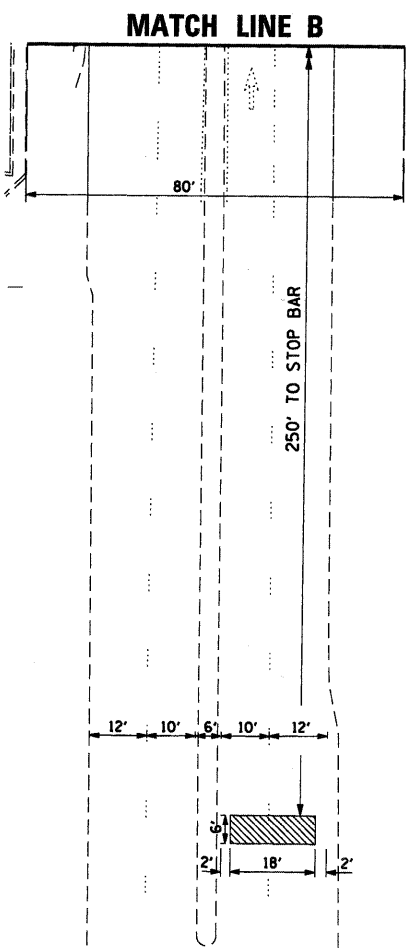
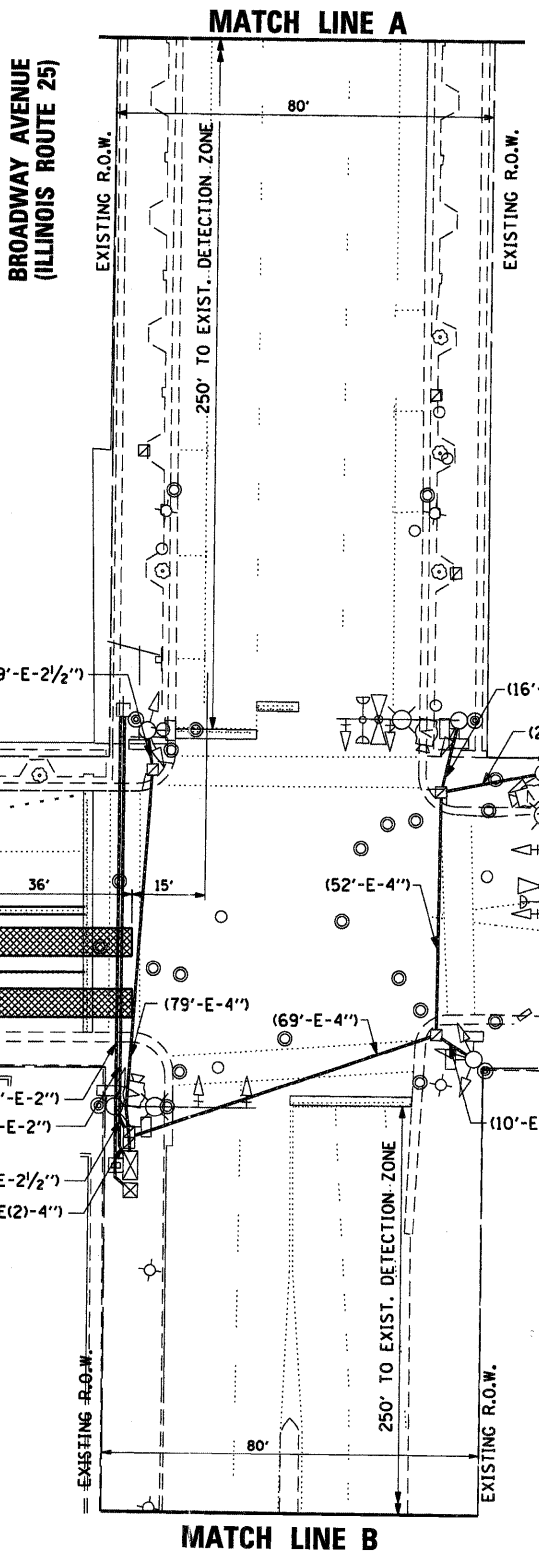
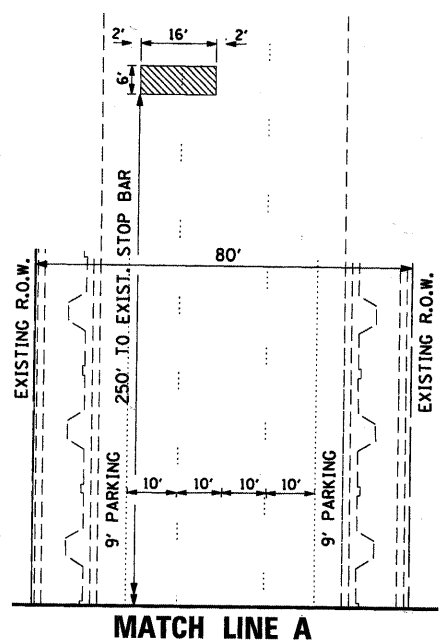
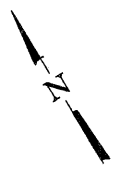
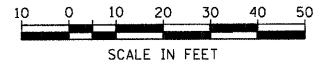
CITY OF AURORA

**TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
BENTON ST. AND RIVER ST. (IL RT. 31)**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	29
CONTRACT NO. 63620				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



NOTE:
THE VIDEO DETECTION ZONES SHALL BE REDRAWN AS SHOWN.
THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF
TEMPORARY TRAFFIC SIGNAL INSTALLATION.

RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE 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.

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 10/22/11 10:22 AM
FILE NAME: 86090472-1a1g82a.dgn
PLOT DRIVER: pdfplot
PEN TABLE: Struct 20x34.tbl



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PLOT DATE = 7/26/11	DATE - 7/26/11	REVISED -

CITY OF AURORA

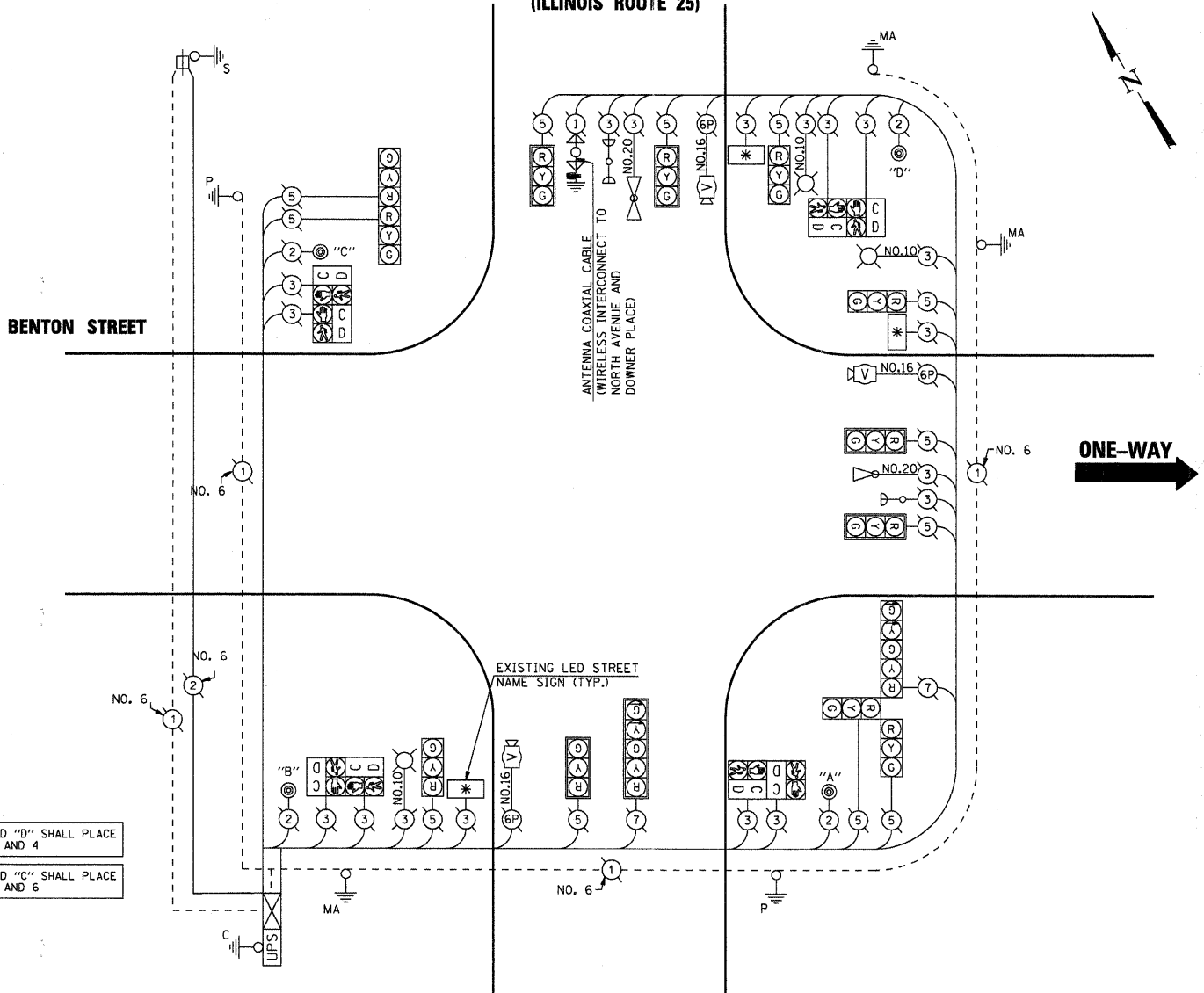
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
BENTON ST. AND BROADWAY AVE. (IL RT. 25)**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	30
FED. ROAD DIST. NO.			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

**BROADWAY AVENUE
(ILLINOIS ROUTE 25)**

BENTON STREET



PUSHBUTTONS "A" AND "D" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSHBUTTONS "B" AND "C" SHALL PLACE A CALL IN PHASES 4 AND 6

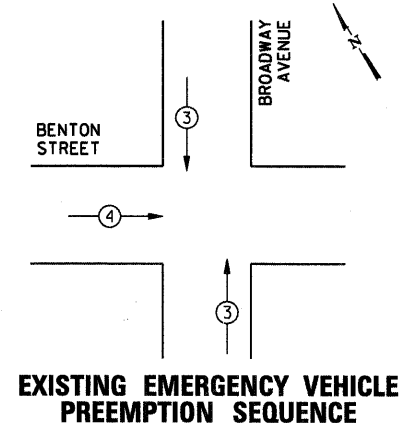
SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	BROADWAY AVENUE
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

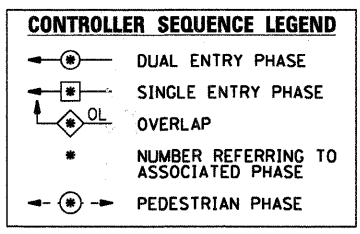
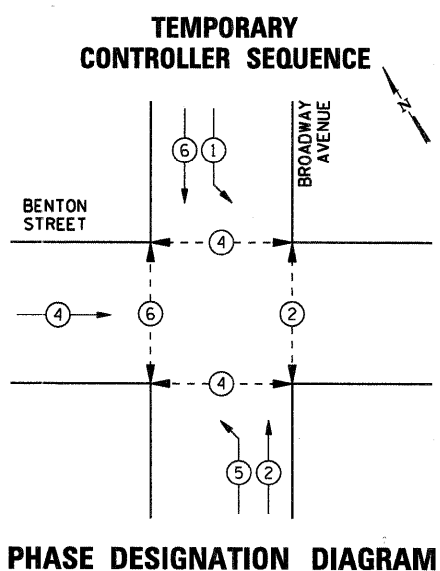
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	14	INCAND.	LED	0.50	119
				0.25	
				0.25	
ARROW	4		12	0.10	4.8
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
LED SIGN	3		60	0.50	90
LUMINAIRE	3		250	0.50	375
VIDEO SYSTEM	1		15	1.00	15
TOTAL =					1068.8

ENERGY COSTS TO: CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60507-2067

ENERGY SUPPLY CONTACT: MARK SCHERIBEL
 PHONE: (630) 723-2128
 COMPANY: COMMONWEALTH EDISON



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EXISTING EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→



COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 86890472-1sig82b.dgn
 PLOT DATE: 7/26/2011
 PEN TABLE:



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PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
BENTON ST. AND BROADWAY AVE. (IL RT. 25)**

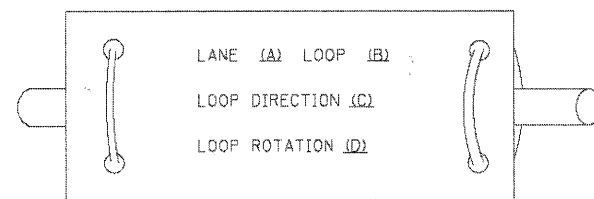
SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	31
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63620	

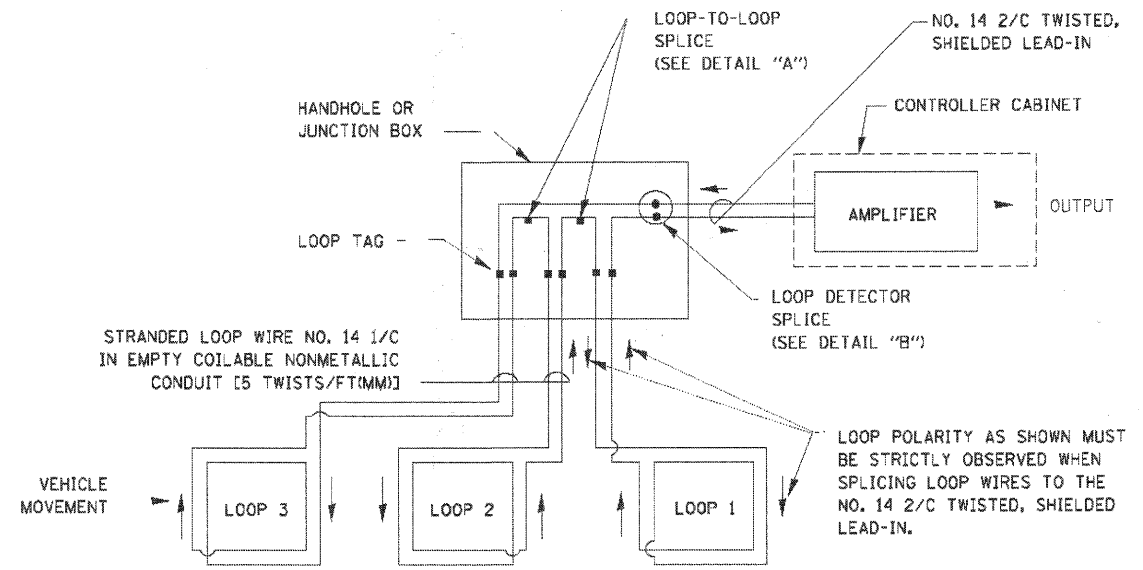
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

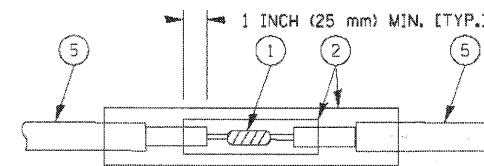


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

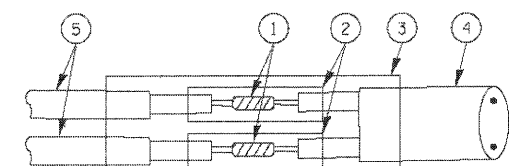


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

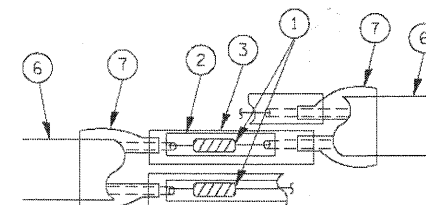


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

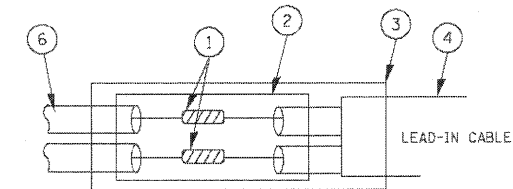


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:55:08 AM
 PLOT DRIVER: c:\program files\autodesk\lisp\acutest.plt
 PEN TABLE: Struct 22x34.tbl



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PLOT DATE = 7/26/2011	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

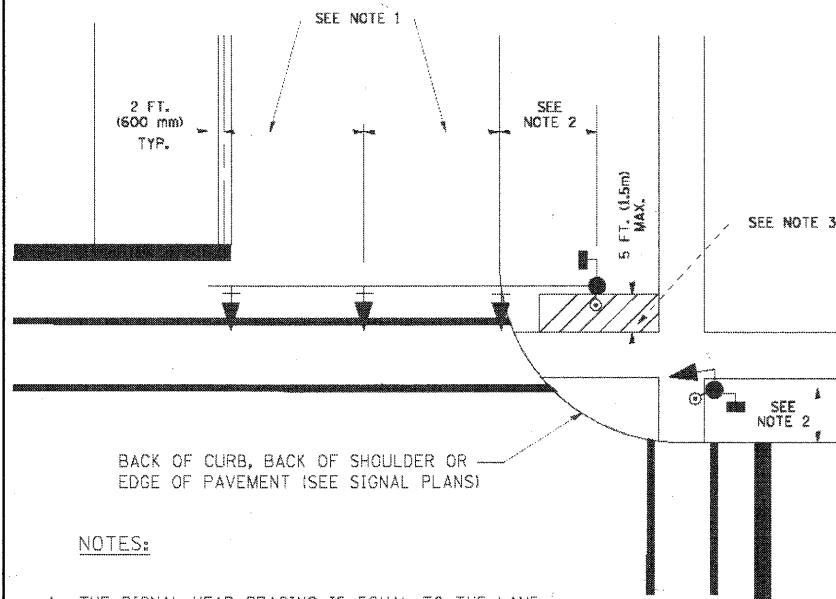
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63620	

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

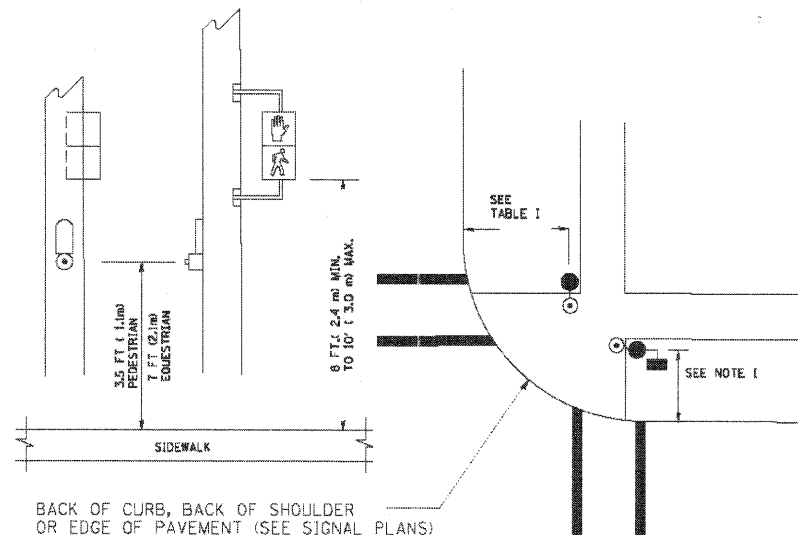
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

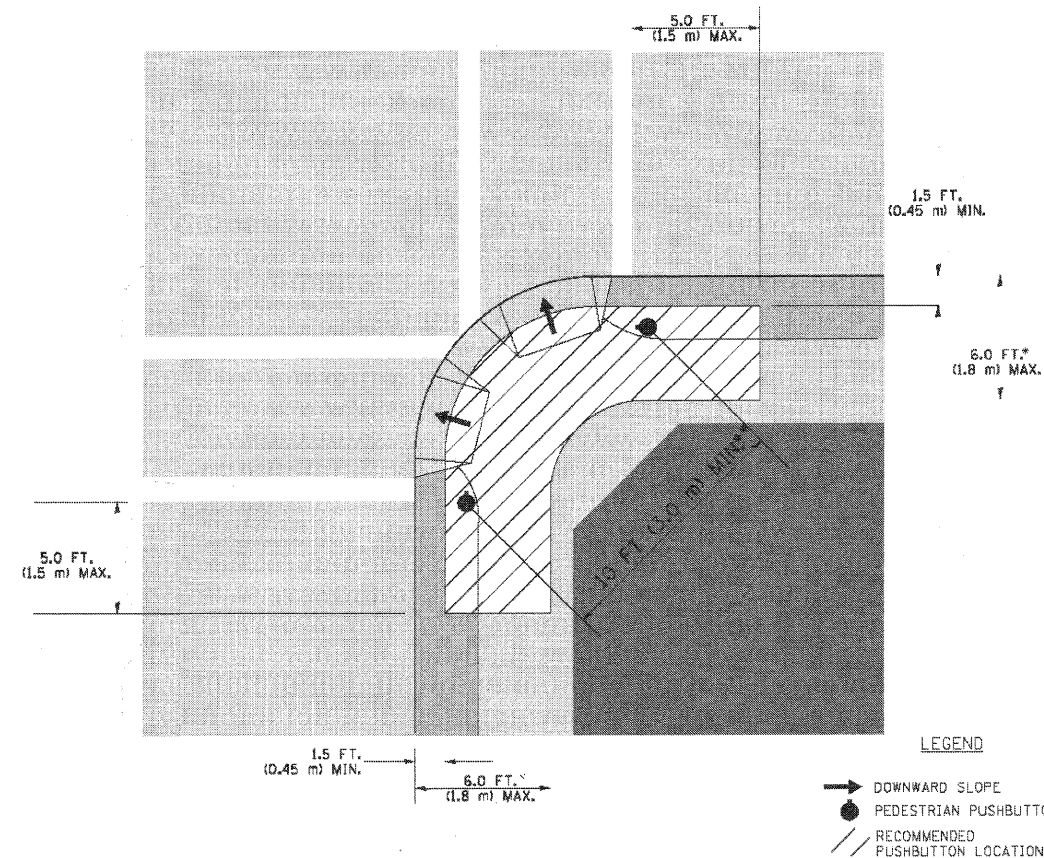
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 DATE PLOTTED: 7/26/2011 10:55:30 AM
 FILE NAME: 86090472-sigdet02.dgn
 PLOT DRIVER: dxfplot
 PLOT TABLE: STRUCT 22x34.tbl



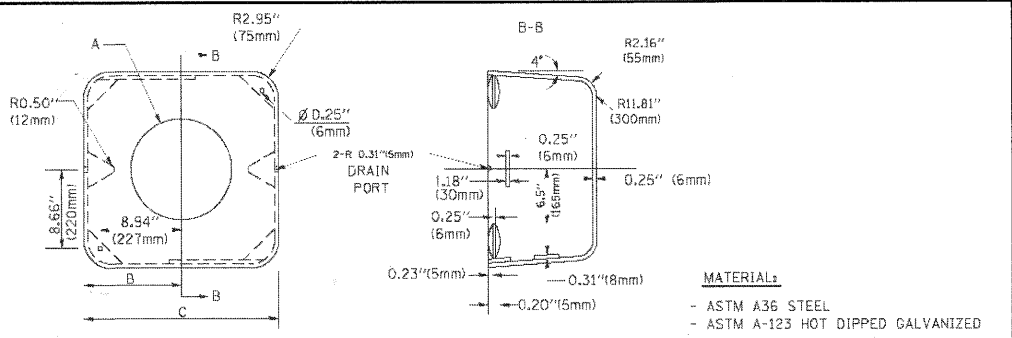
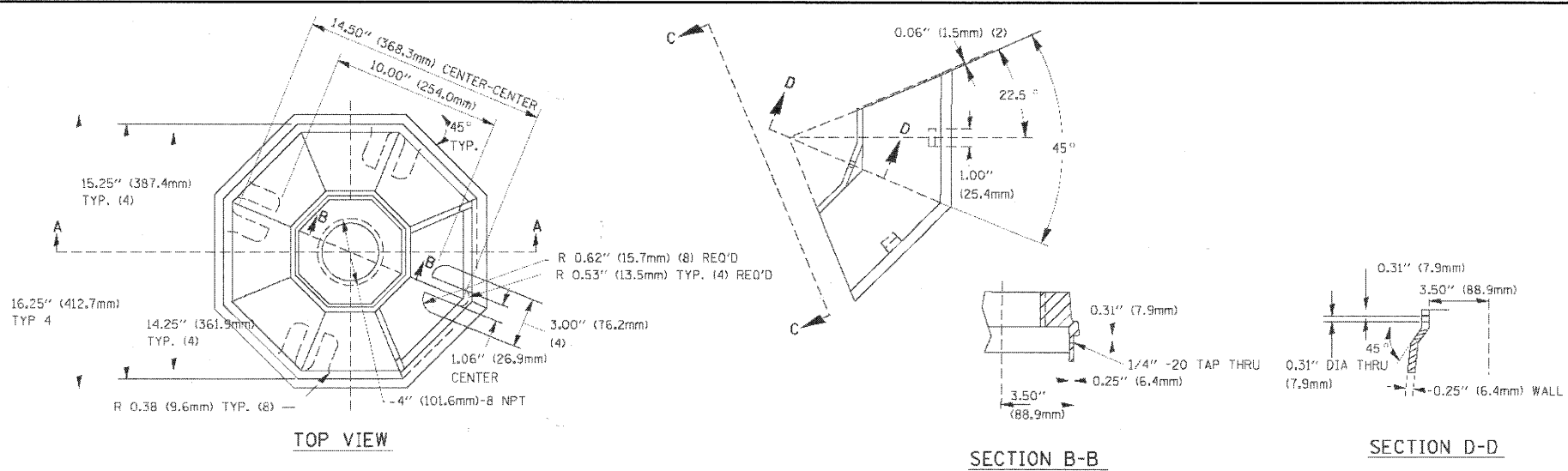
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FILE NAME = 86090472-sigdet02.dgn	DRAWN - BCK	REVISED -
PLOT SCALE =	CHECKED - DAD	REVISED -
PLOT DATE = 7/26/2011	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

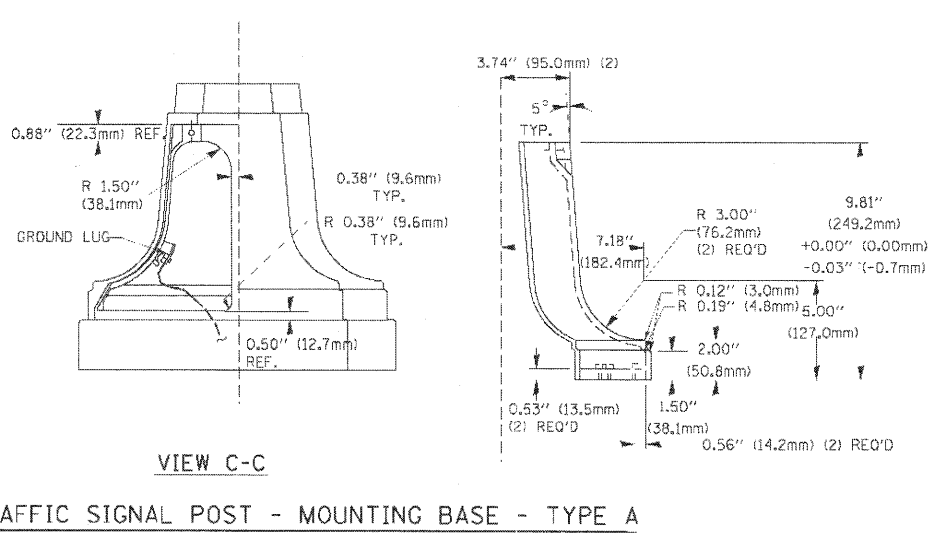
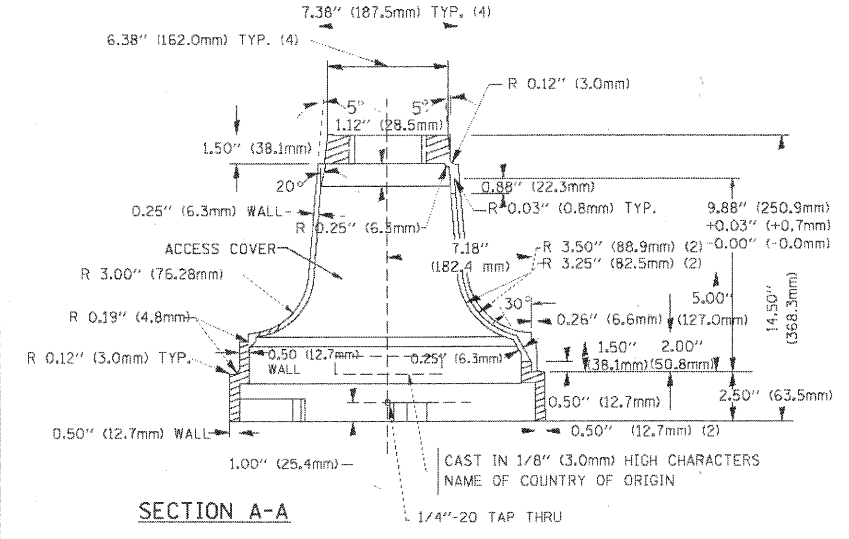
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	33
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63620	



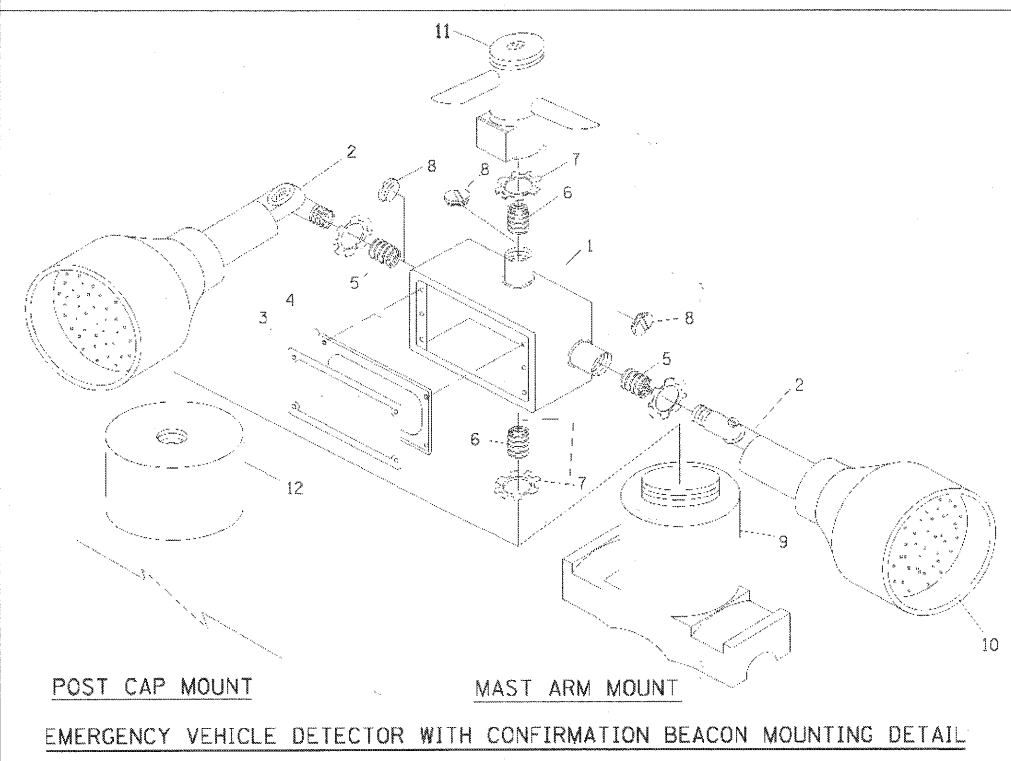
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\"(241mm)	19\"(483mm)	7\"(178mm) - 12\"(300mm)	53 lbs (24kg)
VARIABLES	10.75\"(273mm)	21.5\"(546mm)	7\"(178mm) - 12\"(300mm)	68 lbs (31 kg)
VARIABLES	13.0\"(330mm)	26\"(660mm)	7\"(178mm) - 12\"(300mm)	81 lbs (37 kg)
VARIABLES	18.5\"(470mm)	37\"(940mm)	7\"(178mm) - 12\"(300mm)	126 lbs (57 kg)



SHROUD

NOTES:

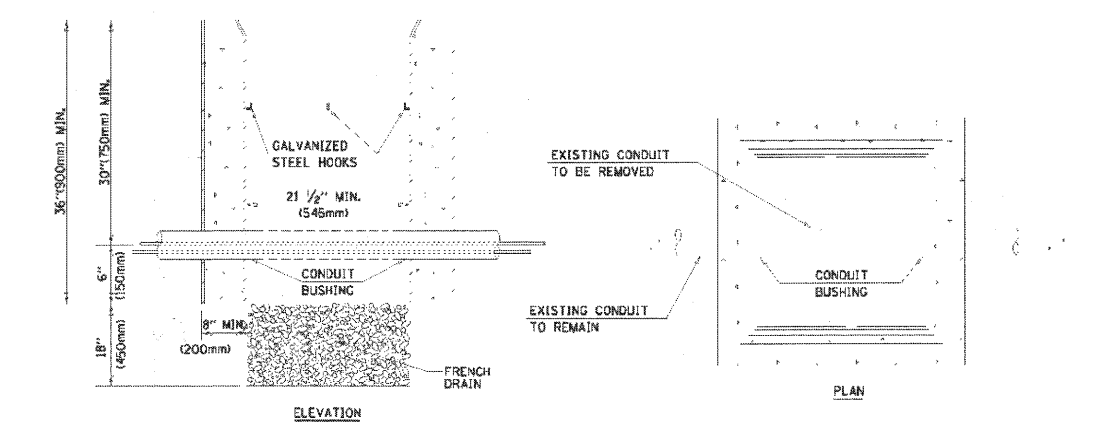
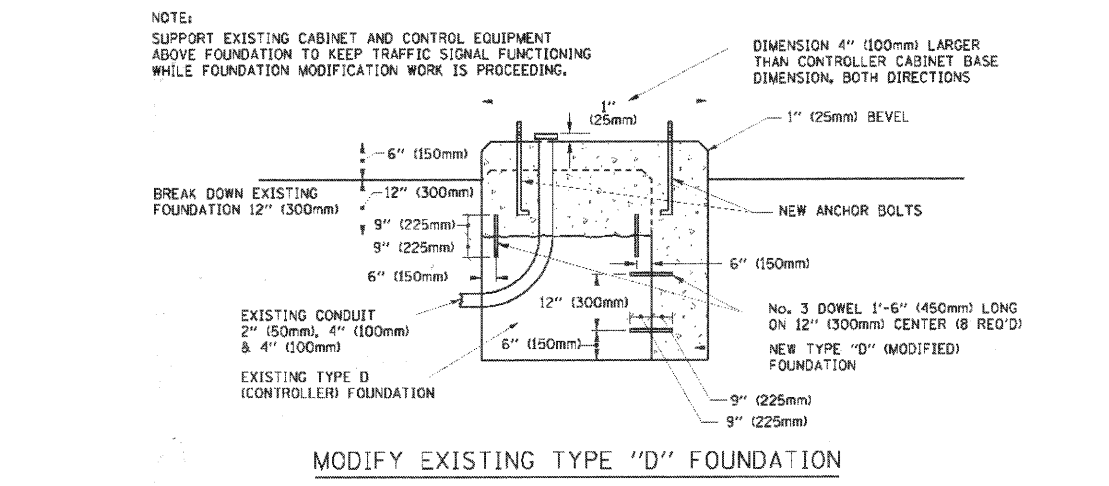
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"(19 mm) CLOSE NIPPLE
7	3/4\"(19 mm) LOCKNUT
8	3/4\"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- 'BAND-IT' SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

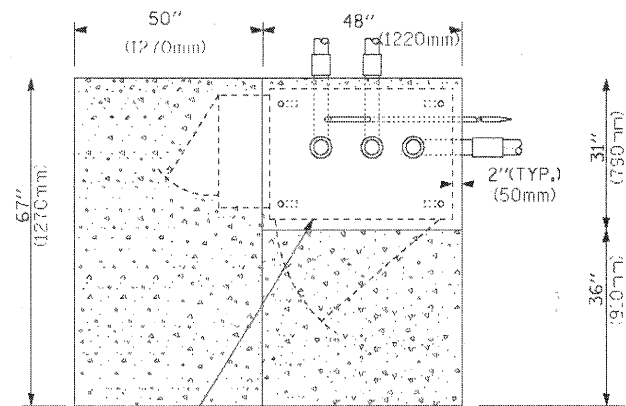


HANDHOLE TO INTERCEPT EXISTING CONDUIT

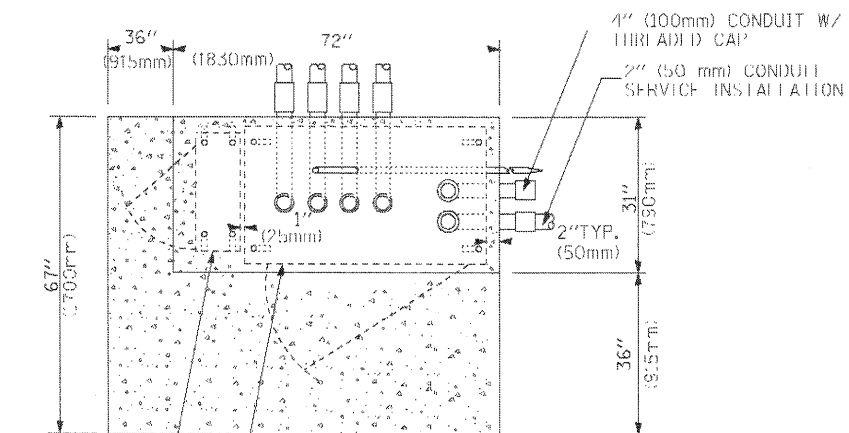
NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

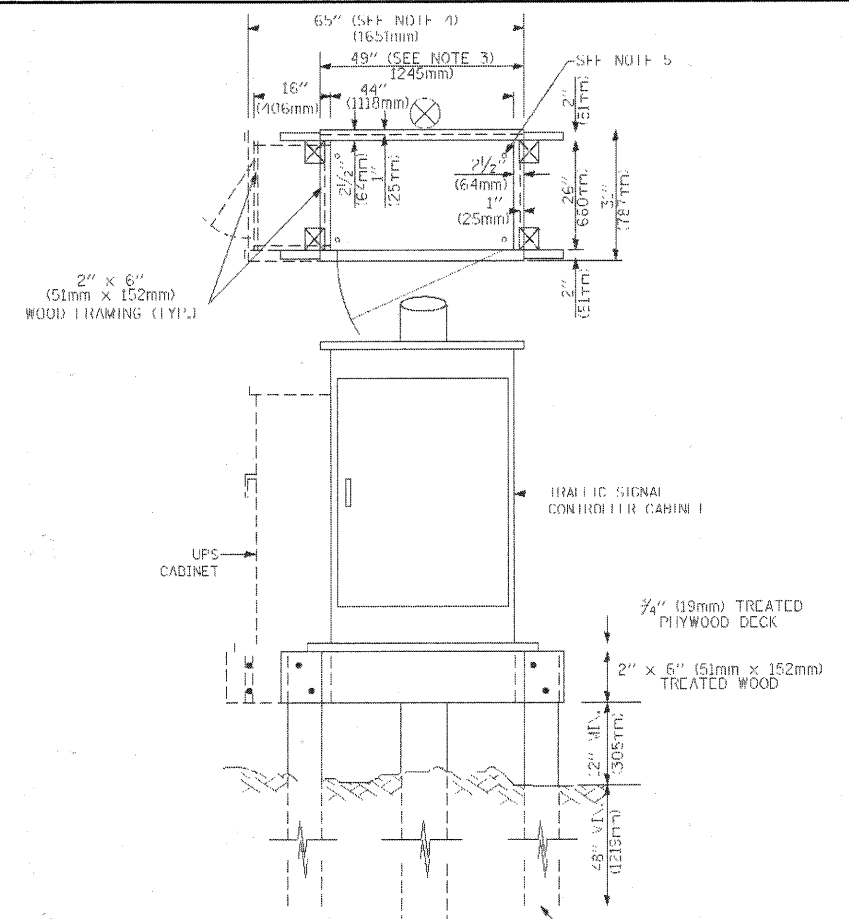
HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:55:54 AM
 PLOT DRIVER: pldrvr
 PEN TABLE: Struct_20x34.tbl



CONTROLLER CABINET BASE
EXISTING APRON
PROPOSED APRON
TOP VIEW

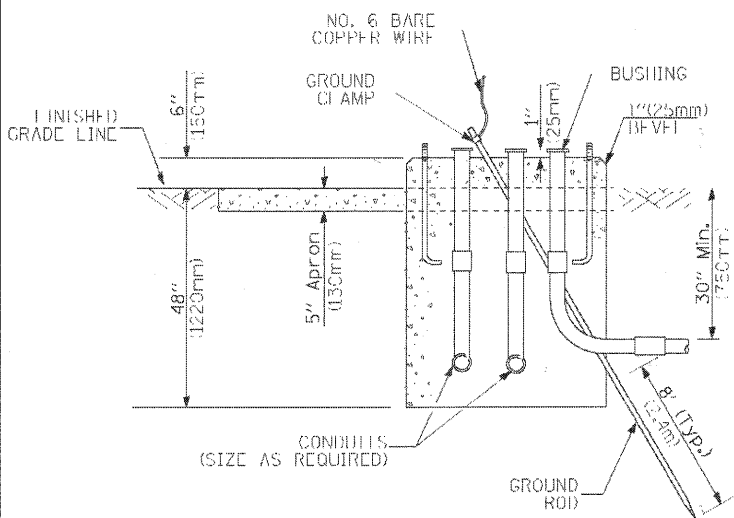


UPS CABINET BASE
CONTROLLER CABINET BASE
APRON
TOP VIEW

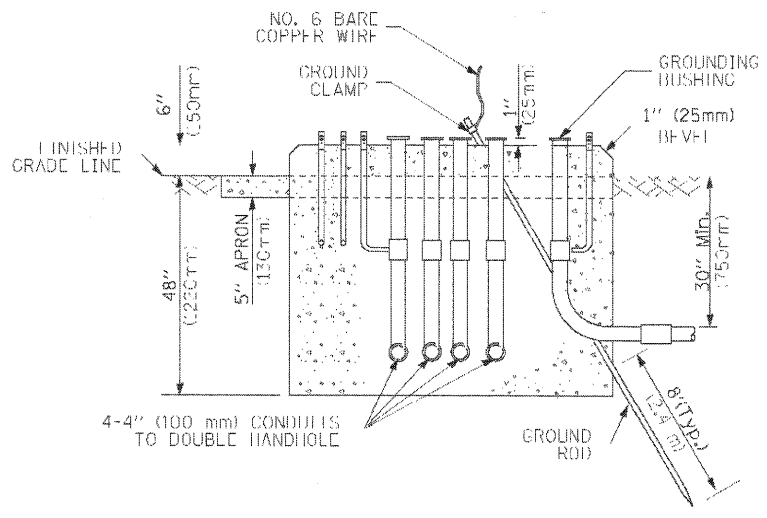


- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	(i) Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harshing
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:55:35 AM
 PLOT NUMBER: 072-sigdet05.dgn
 PEN TABLE: Struct_20x34.tbl



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FILE NAME = 86890472-sigdet05.dgn	DRAWN - BCK	REVISED -
PLOT SCALE =	CHECKED - DAD	REVISED -
PLOT DATE = 7/26/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE:	SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	36
CONTRACT NO. 63620				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				PREFORMED SAMPLING (SYSTEM) DETECTOR			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

RAILROAD SYMBOLS

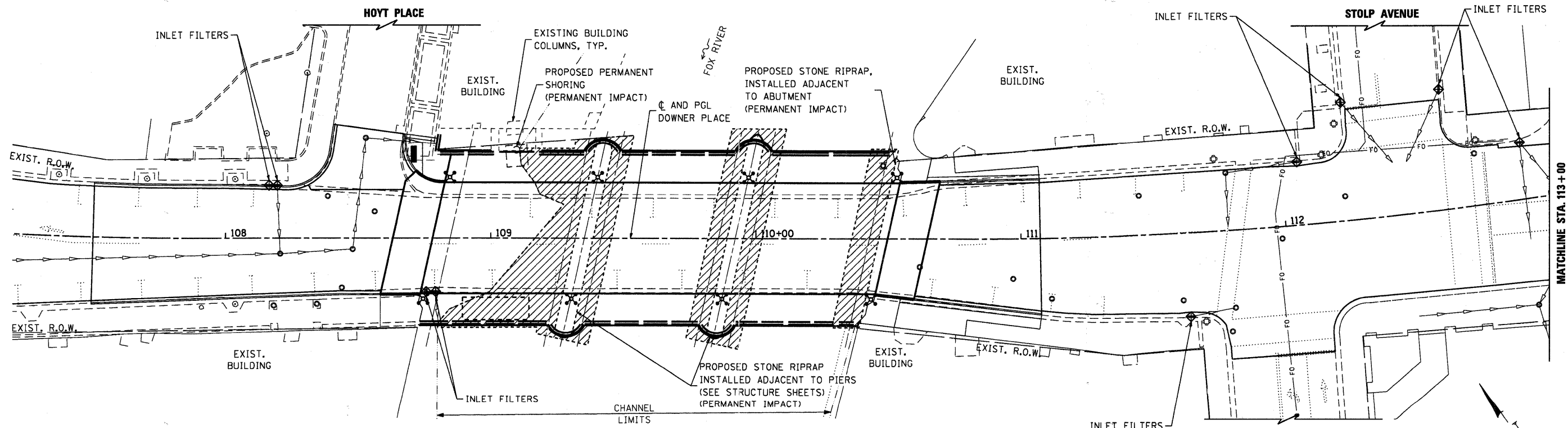
	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Herdeth
 CLIENT: City of Aurora
 FILE NAME: 86090472-sigdet106.dgn
 PLOT DRIVER: parLort
 PEN TABLE: Struct 22x34.tbl

	USER NAME = whood FILE NAME = 86090472-sigdet106.dgn PLOT SCALE = PLOT DATE = 7/26/2011	DESIGNED - DAD/BCK DRAWN - BCK CHECKED - DAD DATE - 10-28-09	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	07-00264-00-BR KANE 164 37
	SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT CONTRACT NO. 63620		

EROSION CONTROL NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO START OF ANY EXCAVATIONS.
2. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN SEVEN (7) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 95-60.
4. STABILIZATION MEASURES SHALL BE INITIATED WITHIN 7 DAYS OF CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASING IN AREAS WHERE IT WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
5. THE SOIL AND WATER CONSERVATION DISTRICT MAY CONDUCT SITE VISITS AND VERIFY THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE ENGINEER OR THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICES IN A TIMELY MANNER.
6. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND TWO WEEKS PRIOR TO FINAL INSPECTION.
7. THERE WILL BE NO IN-WATER WORK ALLOWED FROM APRIL 1 THROUGH JUNE 15.
8. IN THE EVENT THE CONTRACTOR REQUIRES TEMPORARY WORK ACCESS TO THE FOX RIVER TO PLACE TEMPORARY SHORING PLATFORMS, THE CONTRACTOR MUST CONTACT THE KANE - DUPAGE SOIL AND WATER CONSERVATION DISTRICT AND THE US ARMY CORP OF ENGINEERS TO COORDINATE EROSION AND SEDIMENT MEASURES. AT NO TIME WILL ACTIVE EXCAVATION BE ALLOWED IN THE RIVER, UNLESS AREA IS DEWATERED.
9. THE PROJECT SITE SHALL BE STABILIZED AT THE END OF EACH WORK DAY.
10. THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT. THE ENGINEER WILL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL INSPECTIONS.
11. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY OR DIRECTED BY THE ENGINEER.
12. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
13. ALL MATERIALS USED FOR TEMPORARY CONSTRUCTION ACTIVITIES WILL BE REMOVED TO UPLAND AREAS IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY.
14. A STAMPED AND SIGNED COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES AND BE PRESENTED WHEN REQUESTED BY KANE-DUPAGE SWCD, U.S. ARMY CORP OF ENGINEERS OR ANY OTHER AUTHORIZED AGENCY.
15. THE CONTRACTOR WILL BE REQUIRED TO HAVE A DESIGNATED CONCRETE WASH OUT AREA DURING ALL CONCRETE POURS.
16. THE CONTRACTOR MUST CONTACT ROBERT SHANZLE, PERMIT PROGRAM MANAGER, IDNR, OFFICE OF REALTY AND ENVIRONMENTAL PLANNING PRIOR TO ANY DE-WATERING ACTIVITIES TO COORDINATE A BIOLOGIST TO BE ON SITE FOR THE RELOCATION OF ANY EXPOSED MUSSELS.
17. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY KANE - DUPAGE SOIL AND WATER CONSERVATION DISTRICT.
18. WORK WITHIN THE RIVER MUST BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS AND STABILIZATION.
19. THE COST FOR DEWATERING SHALL BE INCLUDED IN THE COST OF "UNDERWATER STRUCTURE EXCAVATION PROTECTION" AT THE LOCATION SPECIFIED.
20. OTHER THAN TO INSTALL AND REMOVE THE EXCAVATION PROTECTION, NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR FOX RIVER SHALL BE ISOLATED FROM RIVER FLOWS AND DEWATERED PRIOR TO THE COMMENCEMENT OF WORK. THE DIVERSION/ISOLATION OF THE RIVER FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, ETC.)
21. THE KANE - DUPAGE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE ARMY CORPS OF ENGINEERS MUST BE IN AGREEMENT WITH METHOD OF DIVERSION/ISOLATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
22. IF BYPASS PUMPING IS NECESSARY, THE OUTLET SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE RIVER FLOW.
23. WHEN DEWATERING THE CONSTRUCTION AREA, ALL WATER MUST BE FILTERED PRIOR TO REJOINING THE RIVER FLOW. DEWATERING METHODS SHALL BE CHOSEN BASED ON SITE CONDITIONS, CONSTRAINTS AND SEDIMENT LOADS.
24. NO EQUIPMENT IS ALLOWED TO OPERATE IN THE WATER OR ON THE STREAMBED, IF EQUIPMENT IS NEEDED TO OPERATE IN THE WATER OR ON THE STREAMBED TO CONSTRUCT THE DIVERSION OR PERMANENT IMPROVEMENTS, A TEMPORARY IN-STREAM WORK PAD WILL BE USED IN ACCORDANCE WITH CHECK SHEET #8 OF THE RECURRING SPECIAL PROVISIONS. IF THE CONTRACTOR DETERMINES A TEMPORARY IN-STREAM WORK PAD IS NEEDED, THE CONTRACTOR SHALL PROVIDE A PLAN AND DETAILS OF THE WORK PAD TO ACOE FOR APPROVAL PRIOR TO CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE ACCORDING TO CHECK SHEET #8 OF THE RECURRING SPECIAL PROVISIONS. COORDINATE WITH BRIDGE GENERAL NOTES ON S-2.
25. THE CONTRACTOR IS NOT PERMITTED TO ALLOW THE EXISTING STRUCTURE, OR OTHER CONSTRUCTION DEBRIS TO FALL INTO THE RIVER DURING DEMOLITION OR CONSTRUCTION.
26. THE CONDITION OF THE SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING. THE COST OF STABILIZATION SHALL BE INCLUDED IN THE CONTRACT.



LEGEND

- INDICATES AREA OF TEMPORARY IMPACTS
- AREA DESIGNATED FOR DEWATERING
- AREAS OF WATERS OF THE U.S. TO BE IMPACTED
 PERMANENT IMPACTS = 0.09 ACRES
 TEMPORARY IMPACTS = 0.23 ACRES

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michele G. Northing
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:56:59 AM
 PLOT NUMBER: 07-00264-00-01-01
 PLOT OWNER: HRGreen
 PLOT TABLE: Struct_22x34.tbl

HRGreen.com
 Illinois Professional Design Firm
 # 184-301322

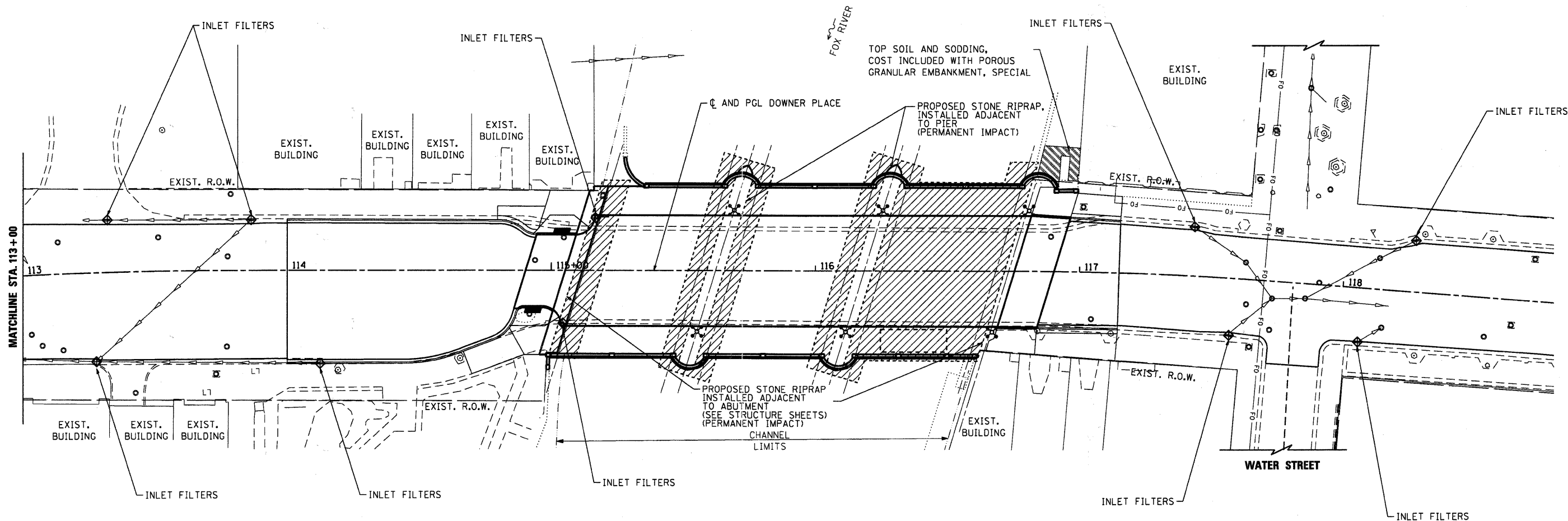
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PLOT SCALE = 1"=20'	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**EROSION CONTROL AND RESTORATION PLAN
DOWNER PLACE**

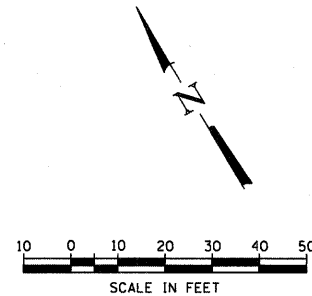
SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. 107+00 TO STA. 113+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	38
FED. ROAD DIST. NO.			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				



LEGEND

- INDICATES AREA OF TEMPORARY IMPACTS
- AREA DESIGNATED FOR DEWATERING



COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael C. Harshbarger
 CLIENT: CITY OF AURORA
 FILE NAME: 86090472-Ero02.dgn
 PLOT DRIVER: PLOTDRIVER
 PEN TABLE: Struct 22x34.tbl



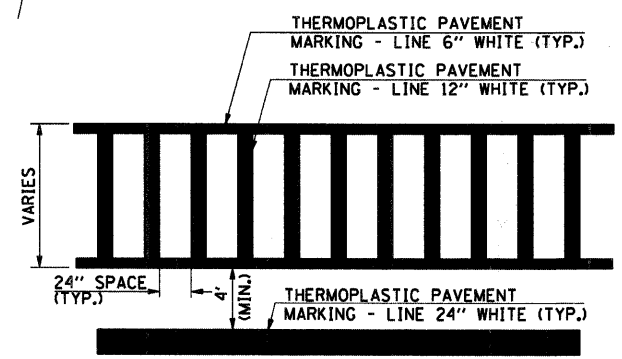
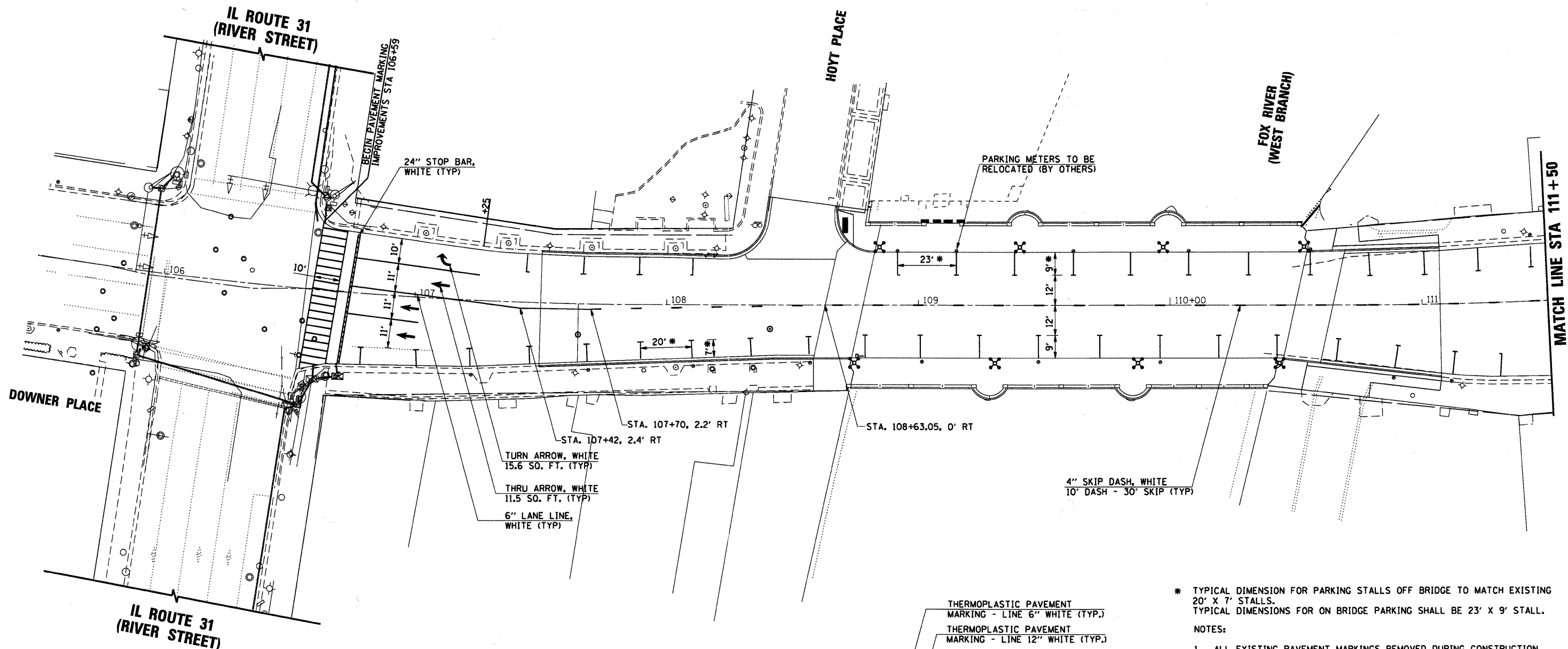
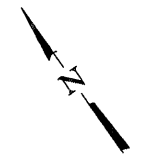
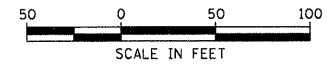
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**EROSION CONTROL AND RESTORATION PLAN
DOWNER PLACE**

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 113+00 TO STA. 118+40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	39
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63620	



TYPICAL STRIPING DETAIL AT CROSSWALKS

* TYPICAL DIMENSION FOR PARKING STALLS OFF BRIDGE TO MATCH EXISTING 20' X 7' STALLS. TYPICAL DIMENSIONS FOR ON BRIDGE PARKING SHALL BE 23' X 9' STALL.

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS REMOVED OR COVERED DURING CONSTRUCTION SHALL BE RESTORED IN THEIR ORIGINAL LOCATION PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
3. NEW PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE C ON PORTLAND CEMENT CONCRETE PAVEMENT.
4. NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING ON HMA PAVEMENT.
5. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:57:23 AM
 FILE NAME: 86090472-pm.01.downer.dgn
 PLOT SCALE: 1/8\"/>



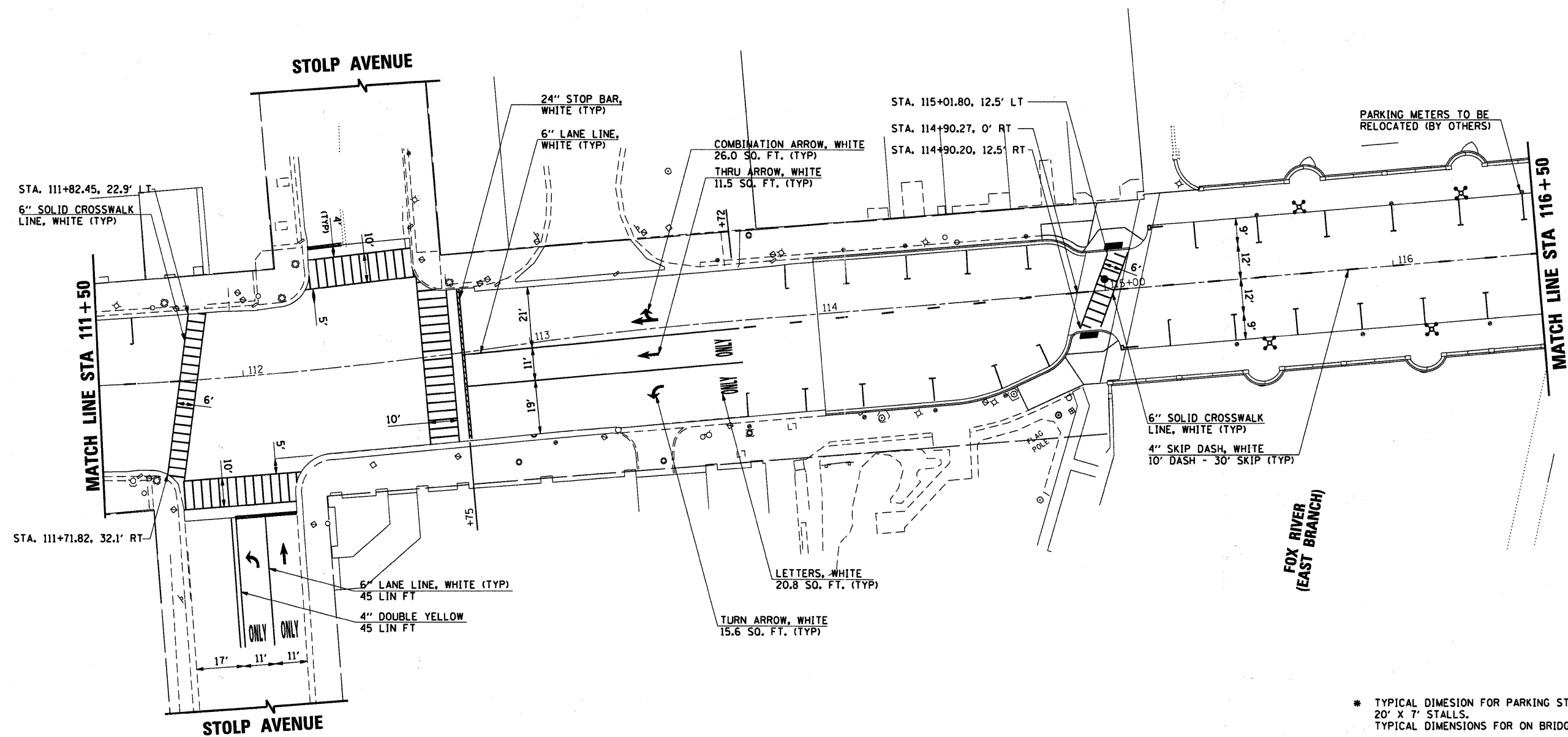
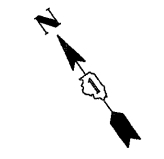
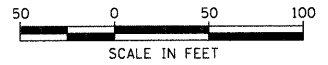
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**PAVEMENT MARKING PLAN
DOWNER PLACE**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63620	



* TYPICAL DIMENSION FOR PARKING STALLS OFF BRIDGE TO MATCH EXISTING 20' X 7' STALLS.
 TYPICAL DIMENSIONS FOR ON BRIDGE PARKING SHALL BE 23' X 9' STALL.

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS REMOVED OR COVERED DURING CONSTRUCTION SHALL BE RESTORED IN THEIR ORIGINAL LOCATION PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
3. NEW PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE C ON PORTLAND CEMENT CONCRETE PAVEMENT.
4. NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING ON HMA PAVEMENT.
5. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE DATED: 7/26/2011
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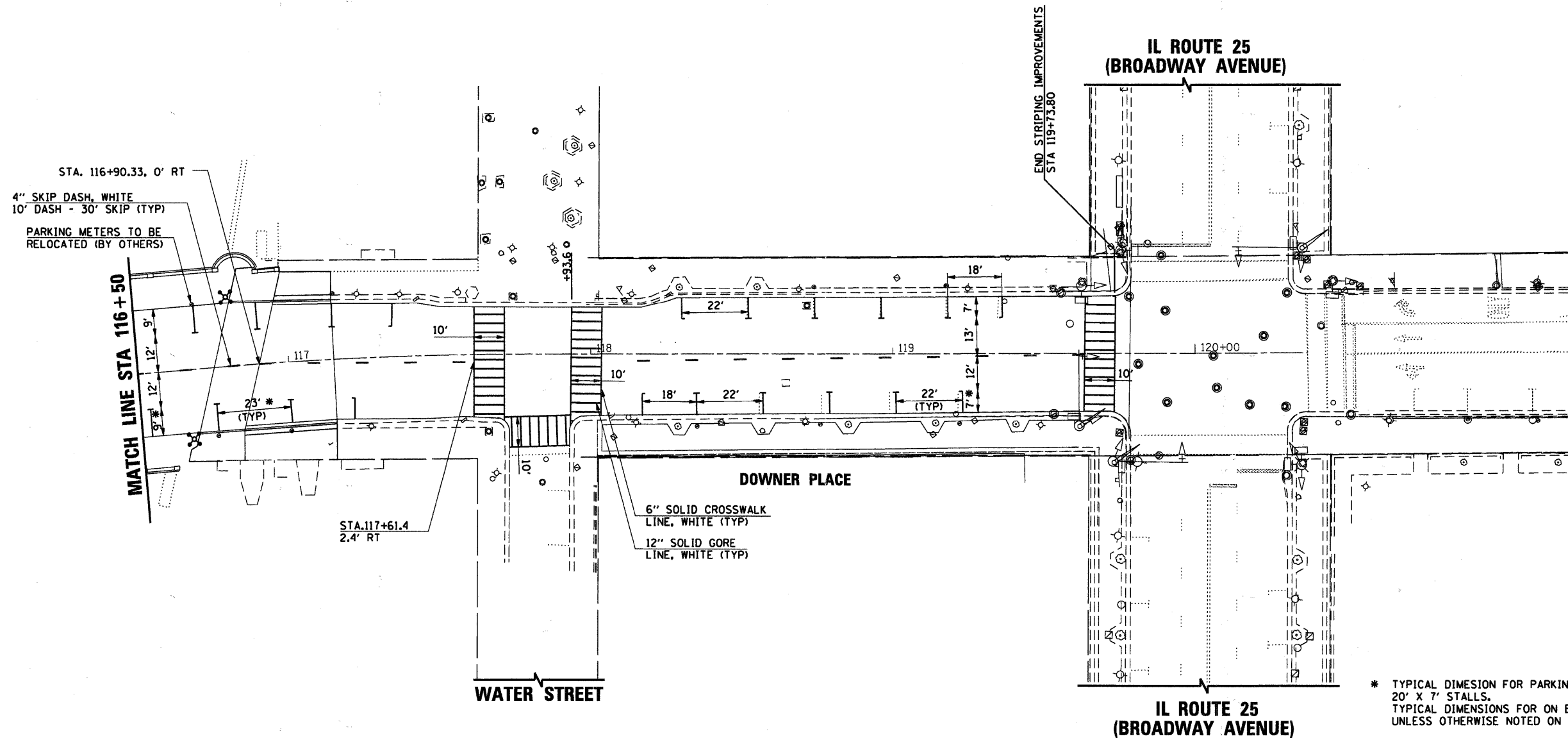
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**PAVEMENT MARKING PLAN
 DOWNER PLACE**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	41
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63620	



* TYPICAL DIMENSION FOR PARKING STALLS OFF BRIDGE TO MATCH EXISTING 20' X 7' STALLS. TYPICAL DIMENSIONS FOR ON BRIDGE PARKING SHALL BE 23' X 9' STALL, UNLESS OTHERWISE NOTED ON THE PLANS.

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS REMOVED OR COVERED DURING CONSTRUCTION SHALL BE RESTORED IN THEIR ORIGINAL LOCATION PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
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4. NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING ON HMA PAVEMENT.
5. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:51:36 AM
 FILE NAME: 86890472-pm.03.downer.dgn
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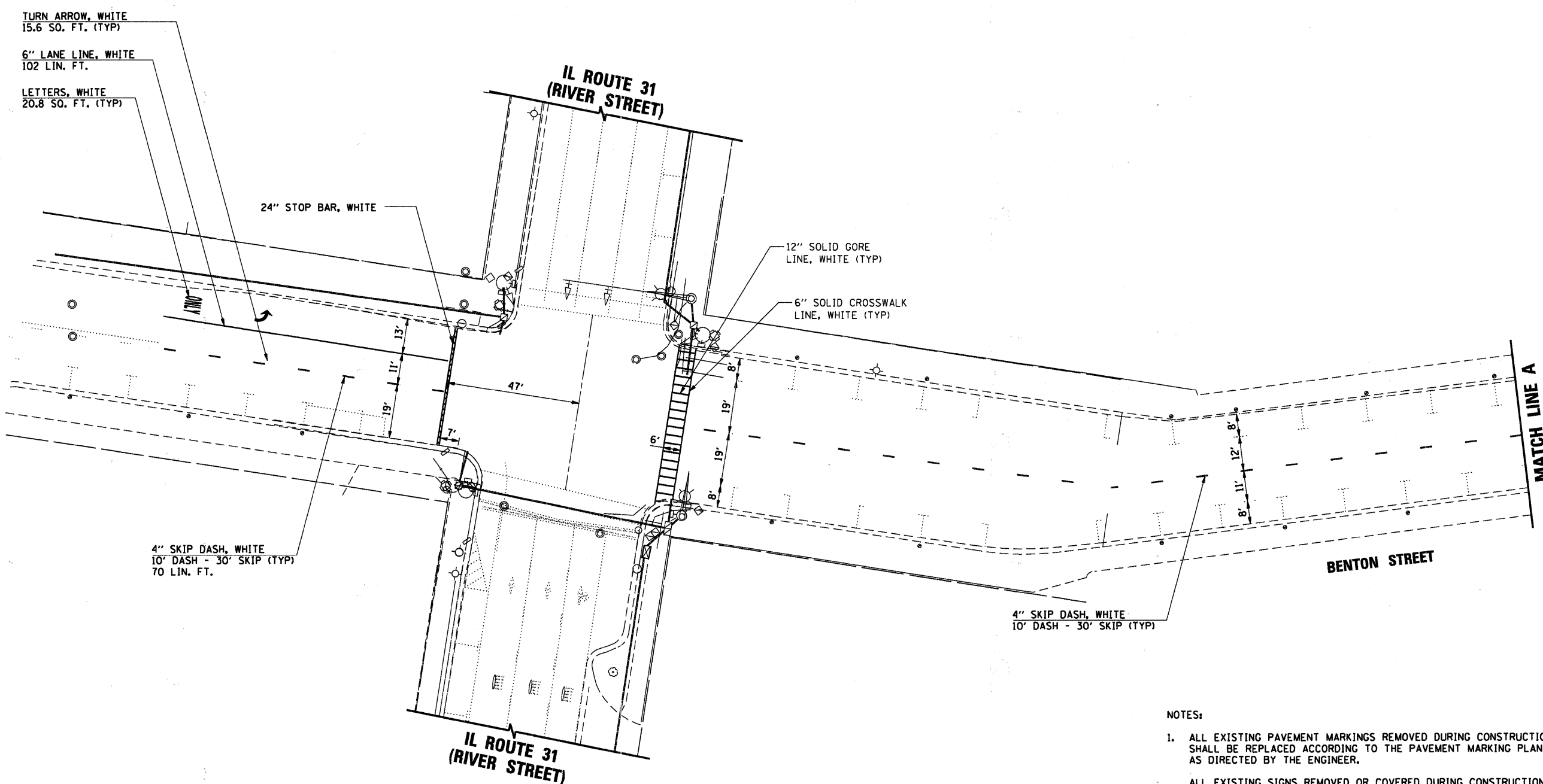
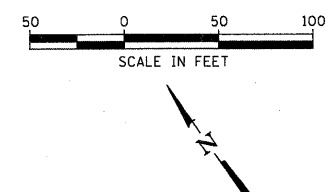
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

PAVEMENT MARKING PLAN
 DOWNER PLACE

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63620	



TURN ARROW, WHITE
15.6 SQ. FT. (TYP)

6" LANE LINE, WHITE
102 LIN. FT.

LETTERS, WHITE
20.8 SQ. FT. (TYP)

24" STOP BAR, WHITE

12" SOLID GORE
LINE, WHITE (TYP)

6" SOLID CROSSWALK
LINE, WHITE (TYP)

4" SKIP DASH, WHITE
10' DASH - 30' SKIP (TYP)
70 LIN. FT.

4" SKIP DASH, WHITE
10' DASH - 30' SKIP (TYP)

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS REMOVED OR COVERED DURING CONSTRUCTION SHALL BE RESTORED IN THEIR ORIGINAL LOCATION PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
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4. NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING ON HMA PAVEMENT.
5. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:57:44 AM
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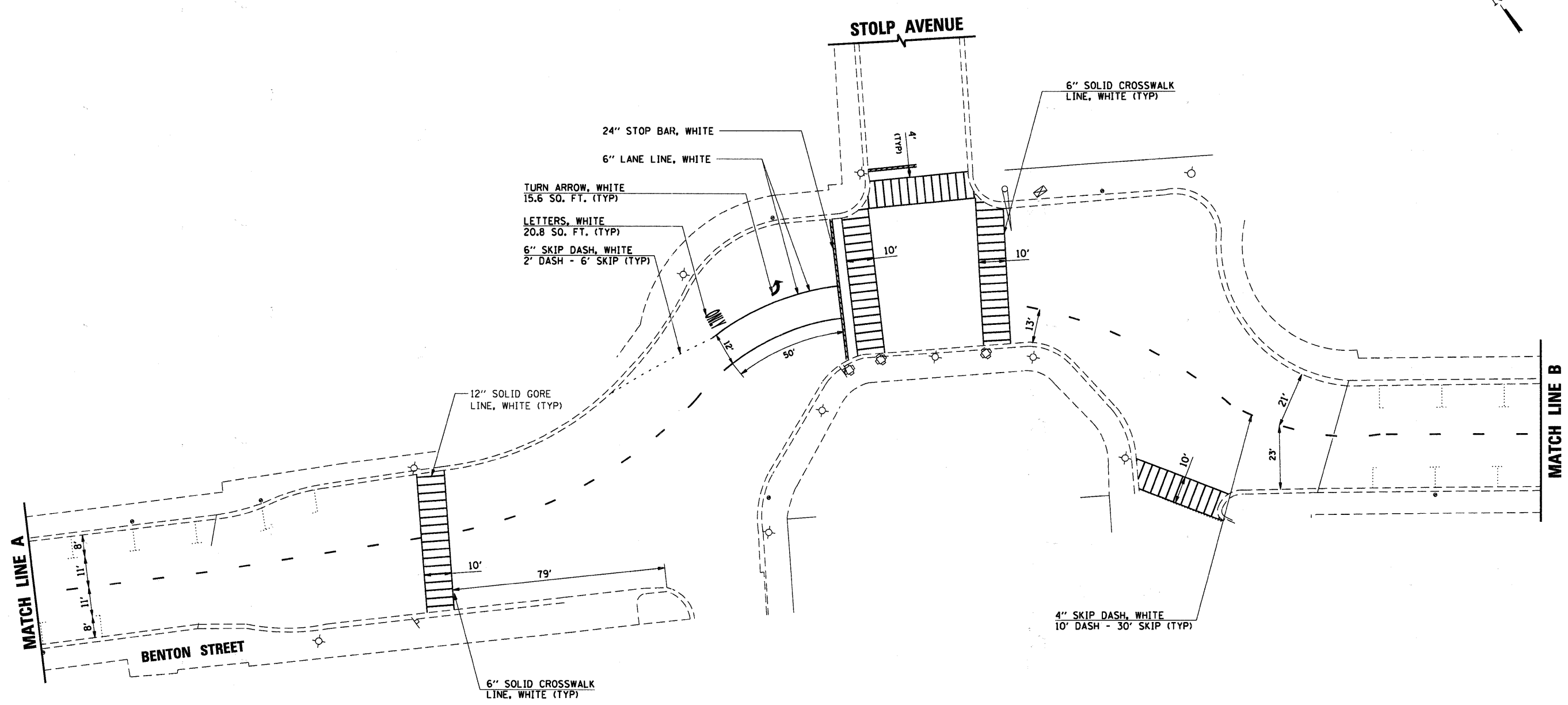
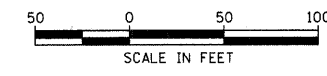
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**PAVEMENT MARKING PLAN
BENTON STREET**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	43
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTES:

1. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS REMOVED OR COVERED DURING CONSTRUCTION SHALL BE RESTORED IN THEIR ORIGINAL LOCATION PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
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4. NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING ON HMA PAVEMENT.
5. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
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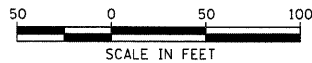
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CITY OF AURORA

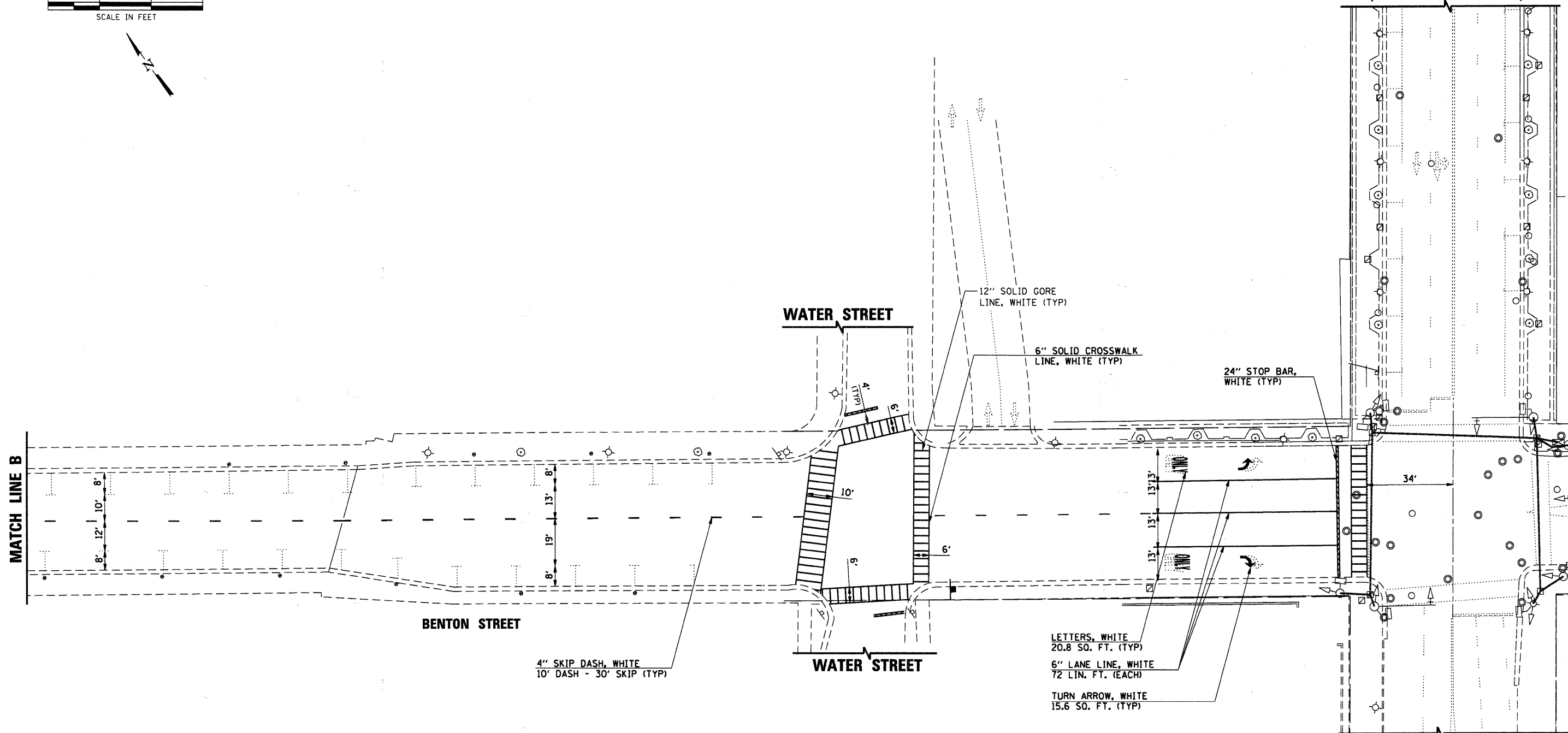
**PAVEMENT MARKING PLAN
BENTON STREET**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	44
FED. ROAD DIST. NO.			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				



IL ROUTE 25
(BROADWAY AVENUE)



- NOTES:
1. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER.
 2. ALL EXISTING SIGNS REMOVED OR COVERED DURING CONSTRUCTION SHALL BE RESTORED IN THEIR ORIGINAL LOCATION PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
 3. NEW PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE C ON PORTLAND CEMENT CONCRETE PAVEMENT.
 4. NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING ON HMA PAVEMENT.
 5. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.

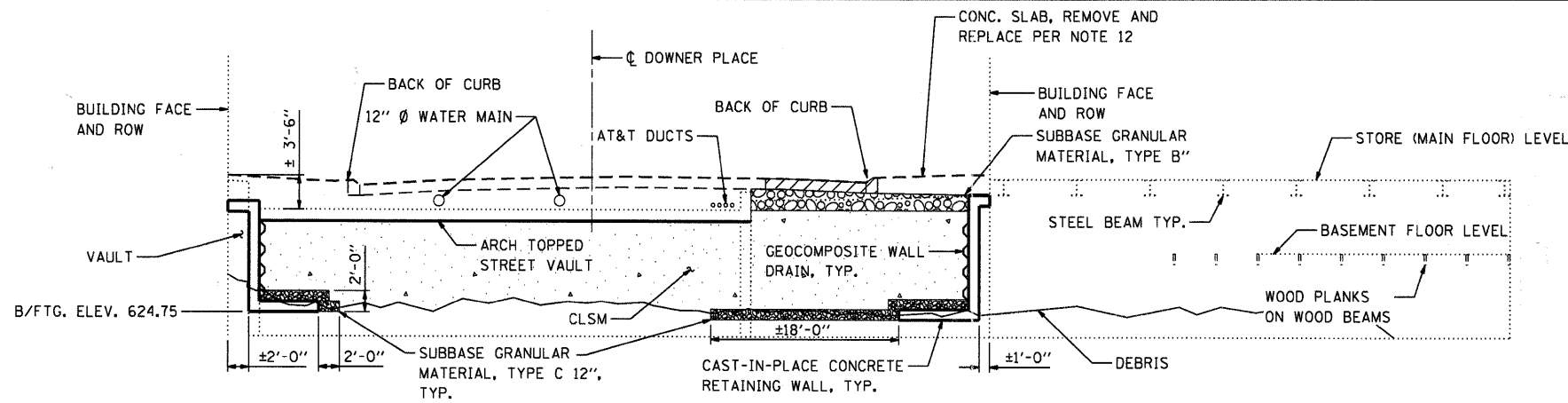
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 PROJECT CONTACT: Michael G. Harding
 CLIENT: CITY OF AURORA
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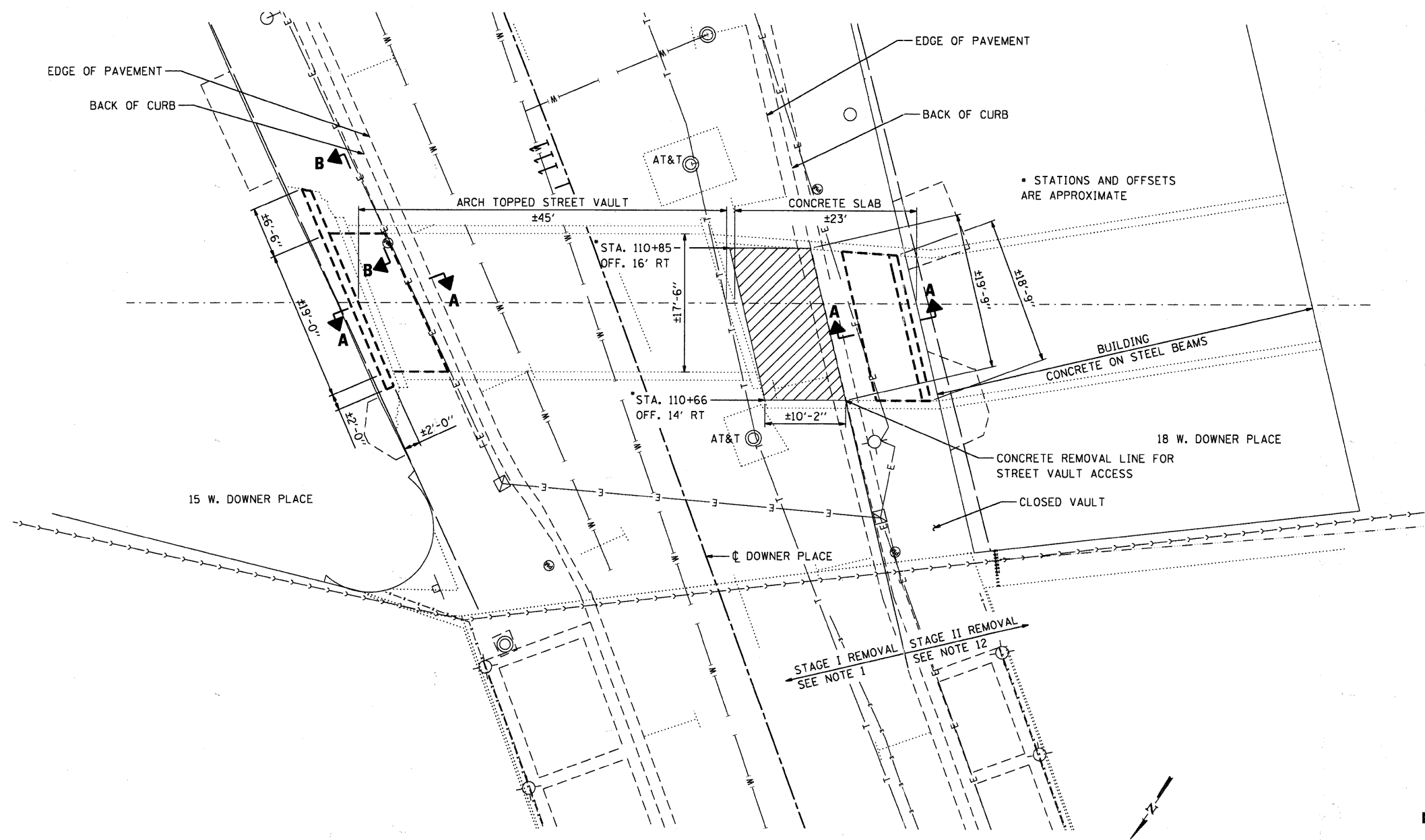
CITY OF AURORA

PAVEMENT MARKING PLAN	
BENTON STREET	
SCALE:	SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	45
CONTRACT NO. 63620			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	



LONGITUDINAL SECTION



PLAN

SUGGESTED SEQUENCE OF CONSTRUCTION

1. REMOVE THE SECTION OF THE EXISTING ROADWAY AND CURB AND ANY FILL DOWN TO THE TOP OF THE EXISTING CIP CONCRETE SLAB AT THE LOCATION SHOWN ON THE PLAN.
2. TEMPORARILY SHORE OR SUPPORT THE NORTHERN EDGE OF THE EXISTING SIDEWALK SLAB (ALONG REMOVAL LINE) WHICH IS TO REMAIN IN-PLACE DURING STREET VAULT FILLING WORK. THE CONTRACTOR IS REQUIRED TO MAINTAIN A 6'-0" MINIMUM WIDTH OF SIDEWALK FOR PEDESTRIAN TRAFFIC AND IS RESPONSIBLE FOR ALL BARRICADES AND SAFETY EQUIPMENT.
3. LOCATE THE HIGH POINT OF THE UNDERSIDE OF THE EXISTING STONE ARCH STREET VAULT IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS. TRANSFER THIS LOCATION TO THE ROADWAY SURFACE ABOVE.
4. REMOVE ALL ORGANIC MATERIAL AND DEBRIS FROM THE STREET VAULT AREA. COST INCLUDED WITH STRUCTURE EXCAVATION.
5. COMPACT STREET VAULT FLOOR, BENEATH PROPOSED FOOTINGS, WITH A VIBRATING PLATE COMPACTOR TO A BEARING PRESSURE OF $(Q_{MAX})=2.0ksf.$
6. INSTALL CIP CONCRETE RETAINING WALLS AS SHOWN IN THE PLANS. THE TOPS OF THE RETAINING WALLS MUST BE A MINIMUM OF 1'-0" HIGHER IN ELEVATION THAN THE HIGH POINT OF THE UNDERSIDE OF THE EXISTING STONE ARCH. THE WALLS MAY BE POURED THROUGH HOLES THAT HAVE BEEN CORED THROUGH THE SIDEWALK ABOVE THE WALL LOCATIONS. NOTE THAT TEMPORARY SIDEWALK SUPPORTS AND ALL FORMWORK AND OTHER EQUIPMENT USED ON THE OUTSIDES OF THE RETAINING WALLS WILL BE ABANDONED IN-PLACE.
7. INSTALL GEOCOMPOSITE WALL DRAIN ON THE INSIDE (STREET SIDE) VERTICAL FACES OF THE RETAINING WALLS.
8. PLACE AND COMPACT SUBBASE GRANULAR MATERIAL, TYPE C STONE AS SHOWN ON THE PLANS.
9. FILL THE REMAINING SPACE BETWEEN THE RETAINING WALLS WITH CONTROLLED-LOW-STRENGTH-MATERIAL (CLSM) TO ELEVATION 633.00 IN LIFTS NOT EXCEEDING 2'-0". EACH LIFT SHALL CURE FOR A PERIOD OF AT LEAST 4 HOURS PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.
10. STARTING AT THE HIGH POINT OF THE UNDERSIDE OF THE EXISTING STONE ARCH, CORE INSPECTION HOLES THROUGH THE TOP OF THE ARCH AT 20' INTERVALS IN BOTH DIRECTIONS LONGITUDINALLY.
11. FILL THE REMAINING ARCH SPACE WITH CLSM WORKING FROM THE LOW POINT TOWARD THE HIGH POINT.
12. AT THE TIME OF ROADWAY RECONSTRUCTION, REMOVE THE REMAINING SECTIONS OF SIDEWALK IN THE STREET VAULT FILL AREA ACCORDING TO ROADWAY PLAN AND PROFILE PLANS. THE CONTRACTOR MUST COORDINATE SIDEWALK REMOVAL AND REPLACEMENT WITH THE BUILDING OWNERS IN ORDER TO MAINTAIN BUILDING ACCESS AT ALL TIMES REQUIRED BY THE OWNERS.
13. FILL THE SPACE BETWEEN THE TOP OF THE CLSM AND THE BOTTOM OF THE PROPOSED SIDEWALK/ROADWAY SUB-BASE WITH SUBBASE GRANULAR MATERIAL, TYPE B (MIN. 12" AND VARIES AS DETERMINED BY THE ENGINEER).

NOTES:

1. SEE NEXT SHEET FOR SECTIONS A-A AND B-B.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 DATE PLOTTED: 7/26/2011 10:52:54 AM
 FILE NAME: 86090472-Tun01.dgn
 PLOT DRIVER: pdt01.dwt
 PEN TABLE: Struct 22x34.tbl

HRGreen.com
 Illinois Professional Design Firm
 # 194-001322

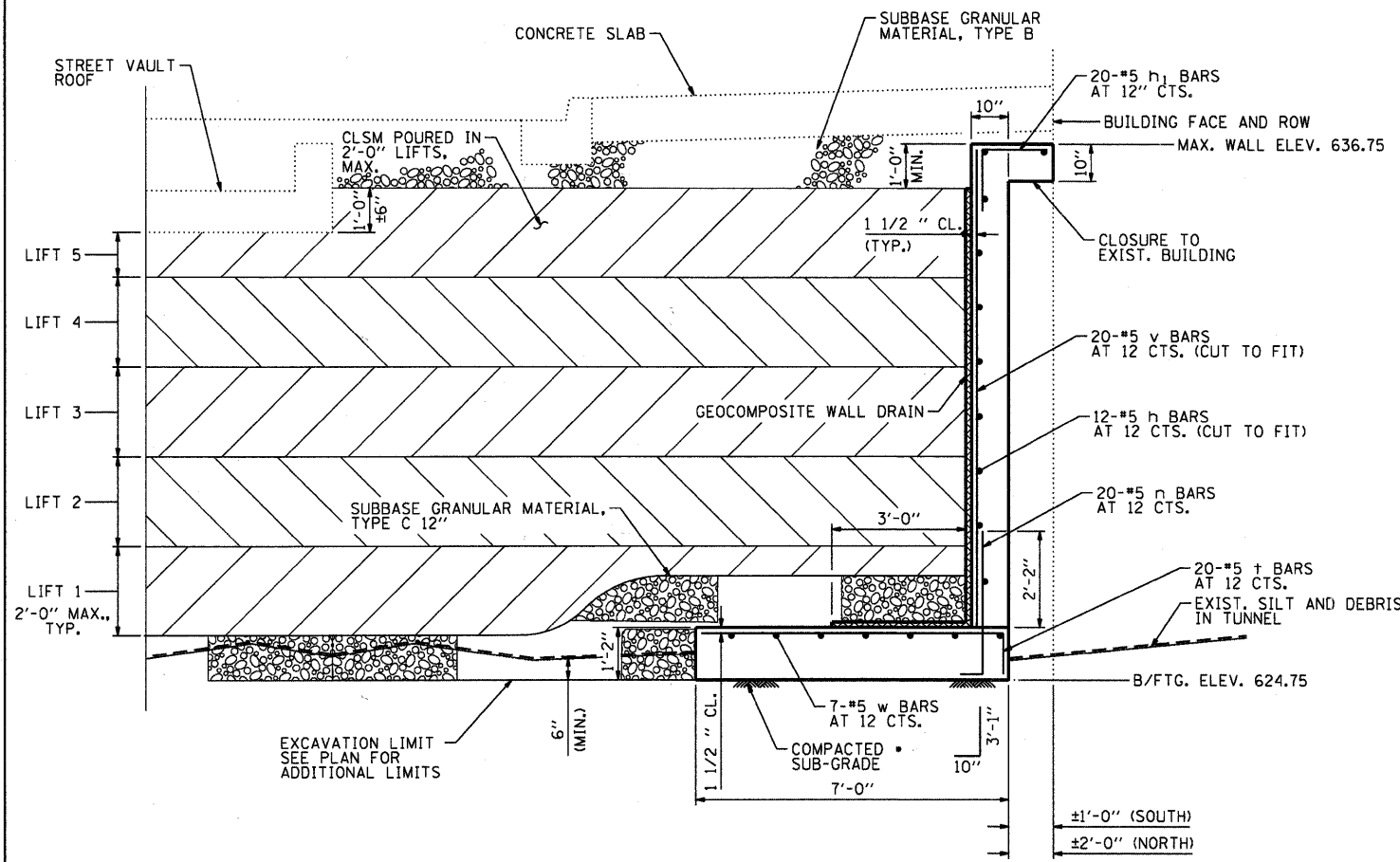
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**STREET VAULT FILL DETAILS
DOWNER PLACE**

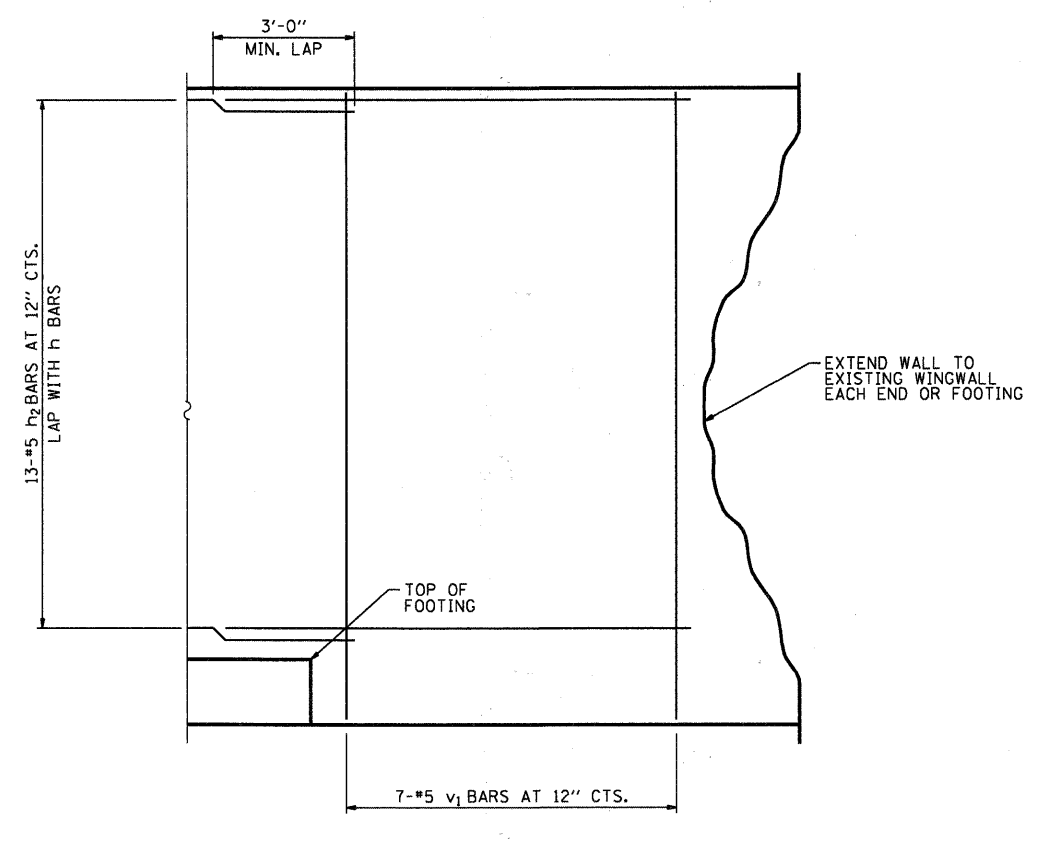
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	46
CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

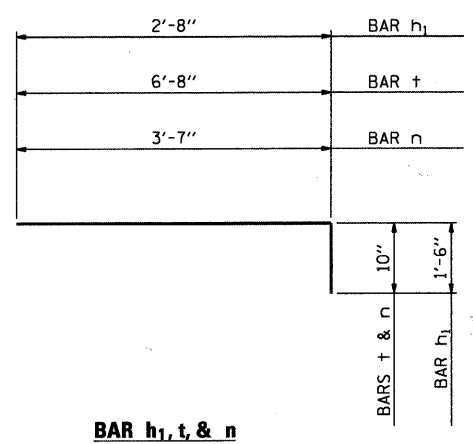


SECTION A-A

* COST OF COMPACTION INCLUDED WITH CONCRETE STRUCTURES



SECTION B-B



BAR h₁, t, & n

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
n	40	#5	4'- 5"	┌
h	24	#5	20'- 0"	—
h ₁	40	#5	4'- 2"	┌
h ₂	26	#5	10'- 0"	—
t	40	#5	7'- 6"	┌
v	40	#5	10'- 8"	—
v ₁	14	#5	11'- 6"	—
w	14	#5	20'- 0"	—
SUBBASE GRANULAR MATERIAL, TYPE B			CU. YD.	24
SUBBASE GRANULAR MATERIAL, TYPE C 12"			SO. YD.	72
CONCRETE REMOVAL			CU. YD.	8.7
STRUCTURE EXCAVATION			CU. YD.	60.6
CONCRETE STRUCTURES			CU. YD.	33.8
REINFORCEMENT BARS			POUND	2,350
GEOCOMPOSITE WALL DRAIN			SO. YD.	67
CONTROLLED-LOW-STRENGTH-MATERIAL			CU. YD.	450.0

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:51:58 AM
 PLOT DRIVER: hrp2011-10-26.dgn
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**STREET VAULT FILL DETAILS
DOWNER PLACE**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	47
FED. ROAD DIST. NO.			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

LIGHTING GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP REFERENCED TO IDOT SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE 2007 ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MOST RECENT VERSION OF THE SUPPLEMENTAL SPECIFICATIONS.
- HANDHOLE-CONDUIT SHALL ENTER STRAIGHT INTO HANDHOLE WITHOUT VERTICAL BENDS. PROVIDE MODELS, TYPES, CONCRETE, ACCESSORIES AND APPURTENANCES AS NECESSARY TO MEET OR EXCEED INDICATED WHEEL LOADING. PROVIDE SLACK IN WIRE WITHIN PULLBOX TO ALLOW WIRE TO BE PULLED UP TO GRADE LEVEL. SPLICES SHALL INCORPORATE INSULATED TERMINAL BLOCK, POLARIS IPLW OR EQUAL. COST FOR MATERIAL IN HANDHOLES SHALL BE INCLUDED WITH THE HANDHOLE.
- WITH THE EXCEPTION OF BRIDGE LIGHTING TO BE REMOVED, LIGHTING ON THE ROADWAY (DOWNER PLACE) AND WALKWAY ALONG RIVER SHALL REMAIN OPERATIONAL AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STREET LIGHTING NEAR THE CONSTRUCTION LIMITS AND PROVIDING TEMPORARY CIRCUITS AS NECESSARY. COST FOR THIS WORK TO BE INCLUDED WITH MAINTENANCE OF LIGHTING SYSTEMS.
- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL OF THE LATEST IDOT, IES, NEC AND LOCAL CODES AND ORDINANCES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
- THE EXISTING LIGHTING UNITS LOCATED WITHIN THE LIMITS OF THE EXISTING BRIDGES SHALL BE REMOVED ACCORDING TO THE REMOVAL PLAN. THE COST FOR THIS WORK IS INCLUDED IN REMOVAL OF EXISTING STRUCTURES.
- CONTRACTOR SHALL COORDINATE ACCESS TO THE EXISTING LIGHTING CONTROLS, LOCATED IN THE STOLP PARKING GARAGE, WITH THE CITY OF AURORA. NOTIFY THE CITY 48 HOURS PRIOR TO TIME OF NEEDED SERVICE INTERRUPTION. POWER MUST BE RESTORED BEFORE DUSK.
- POLE NUMBER, STATION AND CIRCUIT IDENTIFIER SHALL BE LABELED ON THE INSIDE OF THE ACCESS COVERS USING ADHESIVE LABELS ACCORDING TO THE STANDARD SPECIFICATIONS.
- ALL WIRE SHALL CONFORM TO SECTION 817 OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING ITEMS ARE EMBEDDED IN THE BRIDGE SUPERSTRUCTURES

- ANCHOR BOLTS FOR ORNAMENTAL LIGHT UNIT, COMPLETE
 - 2" DIA. PVC CONDUIT (SCHEDULE 40)
 - BARE COPPER WIRE, NO 2/0.
 - EXPANSION FITTINGS SHALL BE INSTALLED AT BRIDGE EXPANSION JOINTS FOR ALL ELECTRICAL RACEWAY RUNS.
- SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.

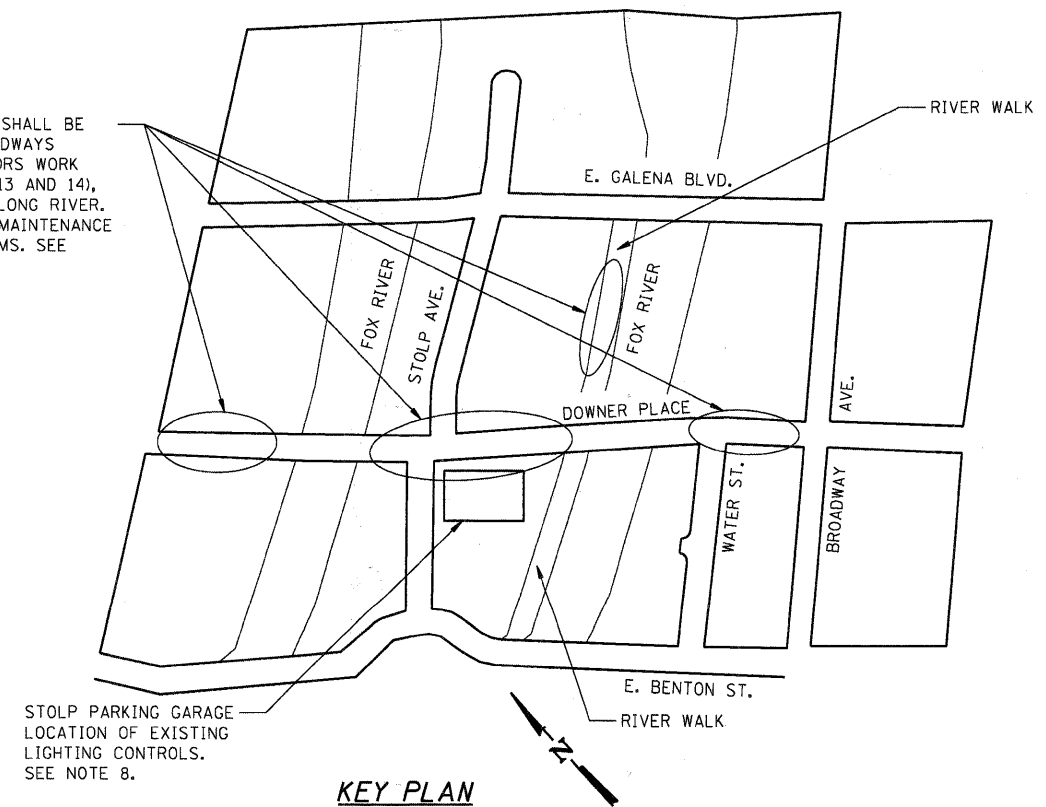
LOAD TABULATION (FOR EACH BRIDGE)

ADDED: 1600W
 REMOVED: 2163W
 NET LOSS: 563W

LIGHTING BILL OF MATERIALS

ITEM DESCRIPTION	UNIT	QUANTITY
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	550
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	480
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	435
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	850
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	1,730
CONDUIT ATTACHED TO STRUCTURE, 5" DIA., GALVANIZED STEEL	FOOT	1,385
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,680
HANDHOLE	EACH	9
HEAVY-DUTY HANDHOLE	EACH	7
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,085
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	4,660
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2,205
MAINTENANCE OF LIGHTING SYSTEMS	EACH	2
ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	14
BARE COPPER WIRE, NO 2/0	FOOT	660

EXISTING LIGHTING SHALL BE MAINTAINED ON ROADWAYS OUTSIDE CONTRACTORS WORK AREA (SEE SHEETS 13 AND 14), AND ON WALKWAY ALONG RIVER. COST INCLUDED IN MAINTENANCE OF LIGHTING SYSTEMS. SEE NOTE 3.



HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:58:02 AM
 PLOT NUMBER: 86090472-Elec05.dgn
 PEN TABLE: Struct 20x34.tbl



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PLOT SCALE =	CHECKED - RCD	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**LIGHTING GENERAL NOTES AND BILL OF MATERIALS
 DOWNER PLACE**

SCALE: SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	48
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	

NOTES:

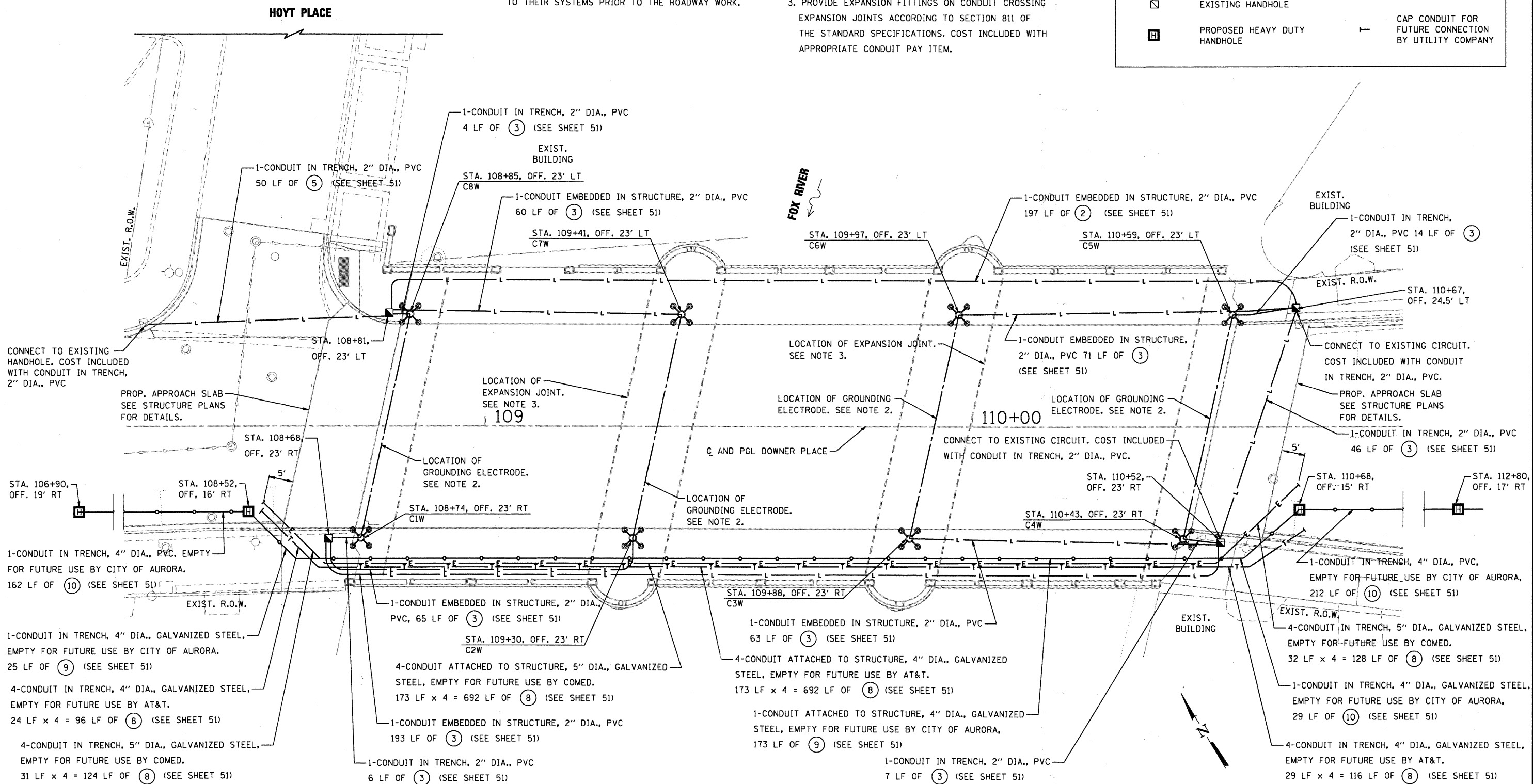
1. EMPTY CONDUITS, FIVE-4 INCH AND FOUR-5 INCH GALVANIZED STEEL. INSTALL BELOW BRIDGE ON UTILITY HANGERS. COST OF MOUNTING LABOR, EQUIPMENT RENTAL AND SUPPORTING MATERIALS INCLUDED WITH APPROPRIATE CONDUIT PAY ITEM. EXTEND CONDUIT TO LIMITS SHOWN AND CAP. NOTIFY EACH UTILITY COMPANY UPON COMPLETION AND LEAVE EXPOSED UNTIL THEIR FIELD REVIEW. THE CITY OF AURORA PREFERS FOR THE UTILITY COMPANIES TO CONNECT THE EMPTY CONDUITS TO THEIR SYSTEMS PRIOR TO THE ROADWAY WORK.

2. PROVIDE GROUNDING ELECTRODE BY RUNNING BARE #2/0 AWG COPPER CONDUCTOR FROM LIGHT POLE TO BELOW WATER LEVEL, WITHIN PORTIONS OF PIERS AND ABUTMENTS TO RECEIVE STRUCTURAL REPAIR OF CONCRETE (SEE BRIDGE PLANS) AND UP TO THE LIGHT POLE AT THE OPPOSITE END OF THE PIER OR ABUTMENT. WIRE TIE CONDUCTOR TO EXISTING STEEL REINFORCEMENT. THIS WORK IS INCLUDED IN COST FOR ORNAMENTAL LIGHT UNIT, COMPLETE.

3. PROVIDE EXPANSION FITTINGS ON CONDUIT CROSSING EXPANSION JOINTS ACCORDING TO SECTION 811 OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH APPROPRIATE CONDUIT PAY ITEM.

LEGEND

- L — LIGHTING CIRCUIT -4*2, 2" C
- T — EMPTY CONDUITS FOR FUTURE USE BY: AT&T (4"Ø)
- E — COMED (5"Ø)
- O — CITY OF AURORA (4"Ø) UTILITIES
- G — GROUNDING ELECTRODE
- EXISTING HANDHOLE
- PROPOSED HEAVY DUTY HANDHOLE
- ✕ ORNAMENTAL LIGHT UNIT, COMPLETE
- POLE LOCATION B7E ← IDENTIFIER
- ↑ EAST OR WEST
- POLE NUMBER
- CIRCUIT
- PROPOSED STANDARD DUTY HANDHOLE
- CAP CONDUIT FOR FUTURE CONNECTION BY UTILITY COMPANY



COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 86290472-Elac01.dgn
 PLOT DRIVER: pldrvr
 PEN TABLE: Struct_22x34.tbl

HRGreen.com
 Illinois Professional Design Firm
 #184-001222

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PLOT SCALE = 1"=10'	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**LIGHTING PLAN - WEST BRIDGE
 STRUCTURE NO. 045-6006**

SCALE: 1"=10' SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	49
CONTRACT NO. 63620				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

NOTES:

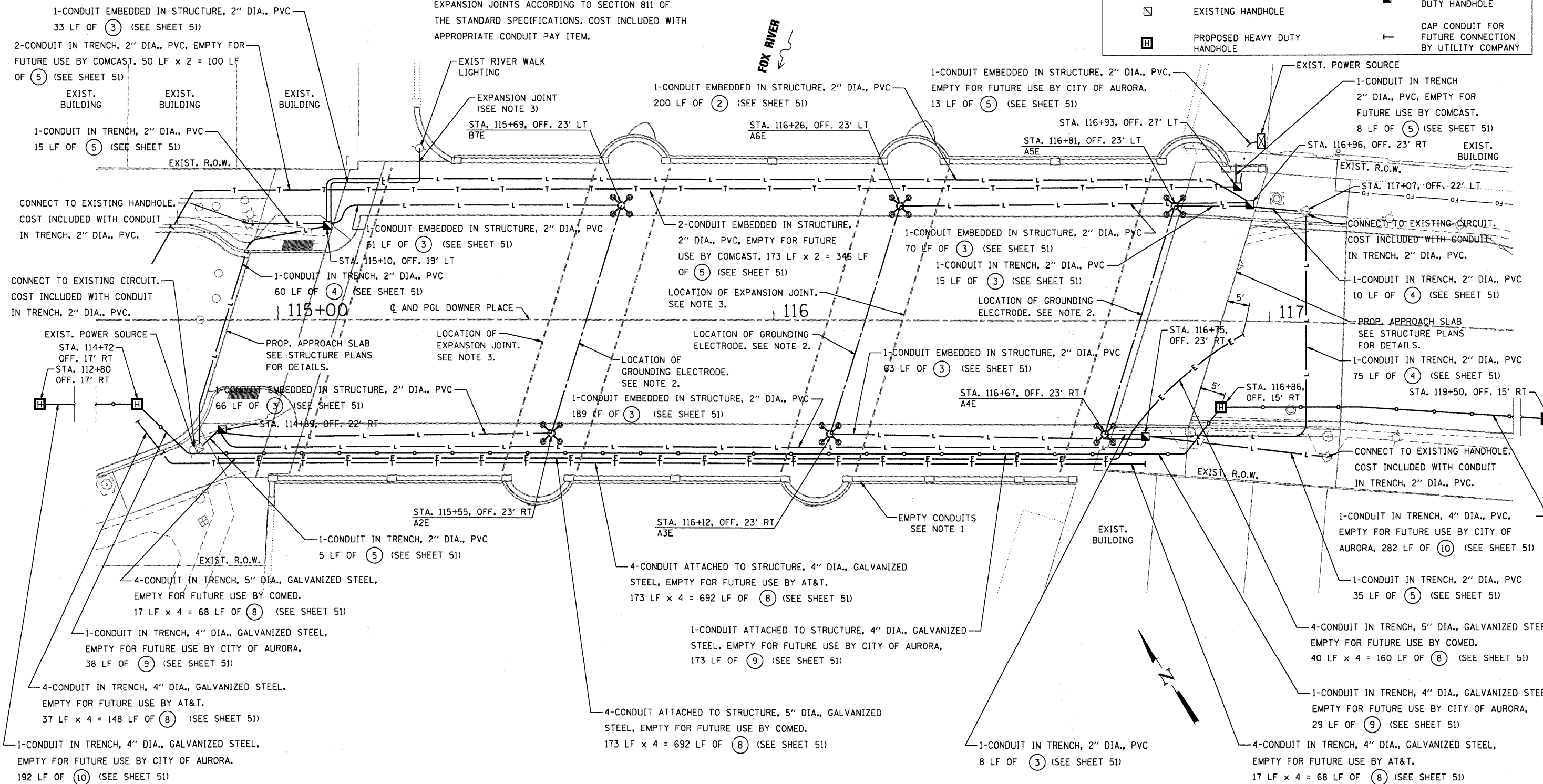
1. EMPTY CONDUITS, FIVE-4 INCH AND FOUR-5 INCH GALVANIZED STEEL. INSTALL BELOW BRIDGE ON UTILITY HANGERS. COST OF MOUNTING LABOR, EQUIPMENT RENTAL AND SUPPORTING MATERIALS INCLUDED WITH APPROPRIATE CONDUIT PAY ITEM. NOTIFY EACH UTILITY COMPANY UPON COMPLETION AND LEAVE EXPOSED UNTIL THEIR FIELD REVIEW. THE CITY OF AURORA PREFERS FOR THE UTILITY COMPANIES TO CONNECT THE EMPTY CONDUITS TO THEIR SYSTEMS PRIOR TO THE ROADWAY WORK.

2. PROVIDE GROUNDING ELECTRODE BY RUNNING BARE #2/0 AWG COPPER CONDUCTOR FROM LIGHT POLE TO BELOW WATER LEVEL, WITHIN PORTIONS OF PIERS AND ABUTMENTS TO RECEIVE STRUCTURAL REPAIR OF CONCRETE (SEE BRIDGE PLANS) AND UP TO THE LIGHT POLE AT THE OPPOSITE END OF THE PIER OR ABUTMENT. WIRE TIE CONDUCTOR TO EXISTING STEEL REINFORCEMENT. THIS WORK IS INCLUDED IN COST FOR ORNAMENTAL LIGHT UNIT, COMPLETE.

3. PROVIDE EXPANSION FITTINGS ON CONDUIT CROSSING EXPANSION JOINTS ACCORDING TO SECTION 811 OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH APPROPRIATE CONDUIT PAY ITEM.

LEGEND

- - - - - EMPTY CONDUIT FOR THE CITY OF AURORA
- L — LIGHTING CIRCUIT -4*2, 2"C
- T — EMPTY CONDUITS FOR FUTURE USE BY: AT&T (4"Ø) OR COMCAST (2"Ø)
- E — COMED (5"Ø)
- O — CITY OF AURORA (4"Ø) UTILITIES
- — — — — GROUNDING ELECTRODE
- EXISTING HANDHOLE
- PROPOSED HEAVY DUTY HANDHOLE
- ⊠ EXISTING 200A 120/240V DISCONNECT
- ⊕ ORNAMENTAL LIGHT UNIT, COMPLETE
- POLE LOCATION
 - BTE ← IDENTIFIER
 - ↑ EAST OR WEST
 - ↑ POLE NUMBER
 - ↑ CIRCUIT
- PROPOSED STANDARD DUTY HANDHOLE
- CAP CONDUIT FOR FUTURE CONNECTION BY UTILITY COMPANY



COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 86090472-Elc02.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

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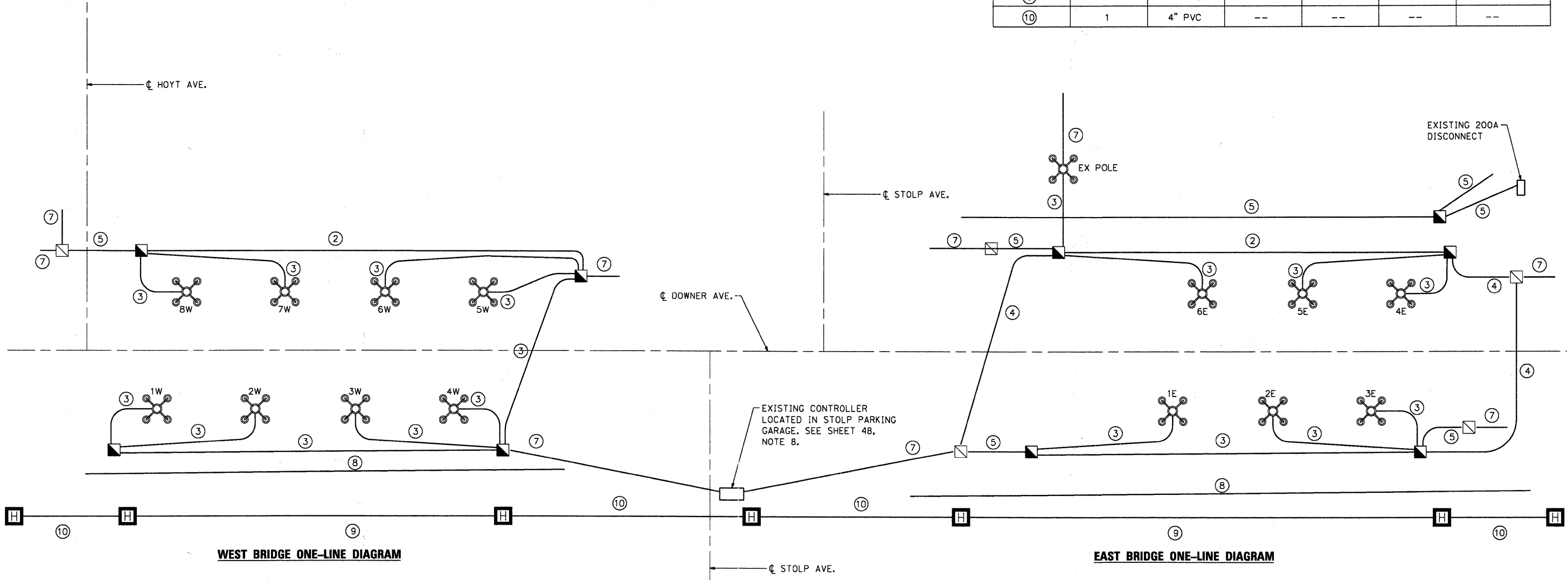
CITY OF AURORA

**LIGHTING PLAN - EAST BRIDGE
 STRUCTURE NO. 045-6005**

SCALE: 1"=10' SHEET NO. 3 OF 5 SHEETS STA. 115+00 TO STA. 117+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	50
CONTRACT NO. 63620				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

CIRCUIT SCHEDULE						
NO.	SETS	CONDUIT	PHASE COND	NEUT COND	GRD COND	CONTROL
①	NOT USED	--	--	--	--	--
②	1	2" PVC	--	--	--	2#10
③	1	2" PVC	2#2	1#2	1#2	--
④	1	2" PVC	2#2	1#2	1#2	2#10
⑤	1	2" PVC	--	--	--	--
⑥	NOT USED	--	--	--	--	--
⑦	EXISTING CIRCUIT: PROTECT AND RECONNECT AS MAINTENANCE OF LIGHTING SYSTEMS-4#2, 2"C					
⑧	4	4" RMC	--	--	--	--
	4	5" RMC	--	--	--	--
⑨	1	4" RMC	--	--	--	--
⑩	1	4" PVC	--	--	--	--



EXISTING CONTROLLER
LOCATED IN STOLP PARKING
GARAGE. SEE SHEET 48,
NOTE 8.

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 7/26/2011 10:58:21 AM
FILE NAME: 86890472-Elec03.dgn
PEN TABLE: 22x34.tbl



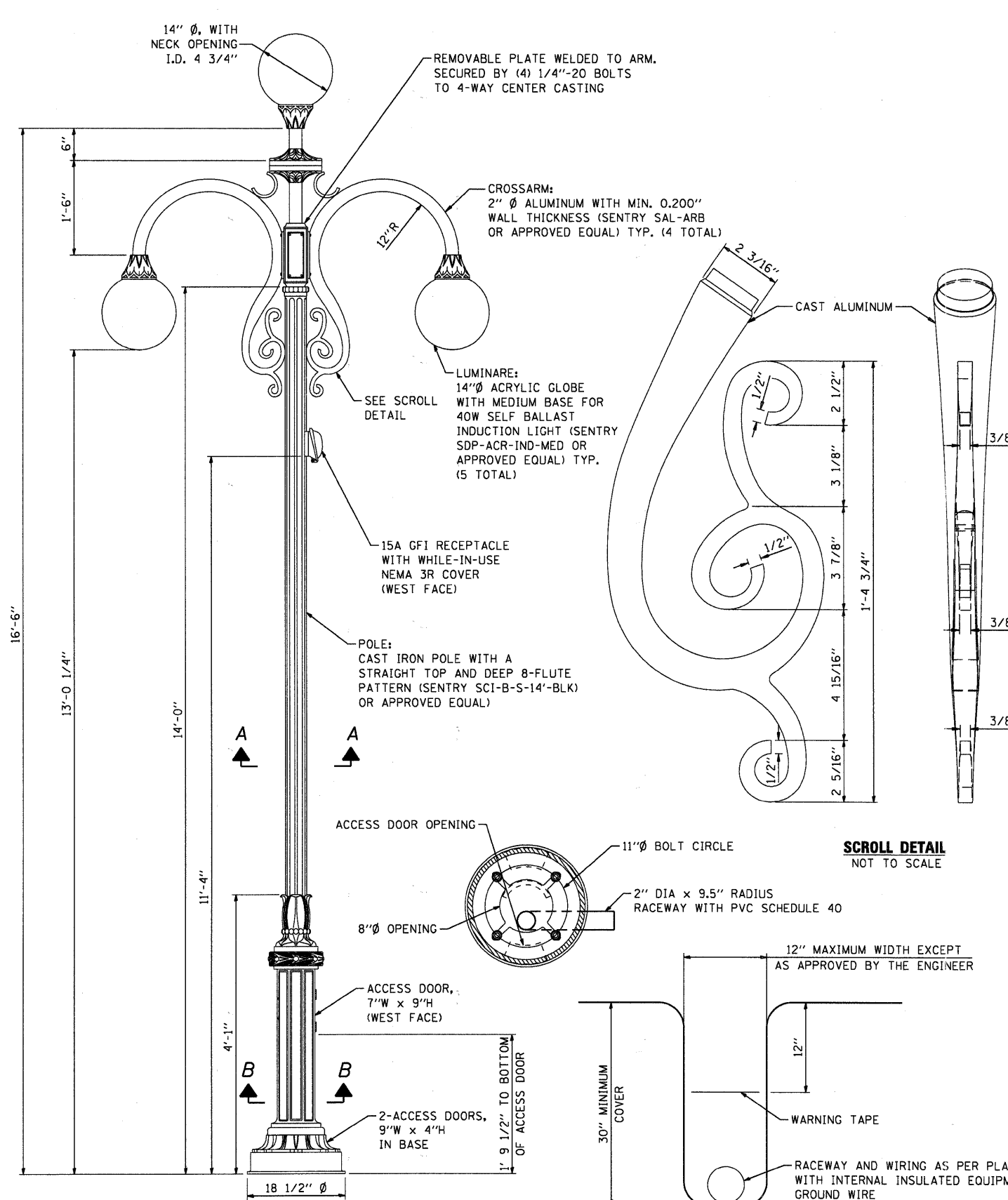
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PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

LIGHTING DETAILS
DOWNER PLACE

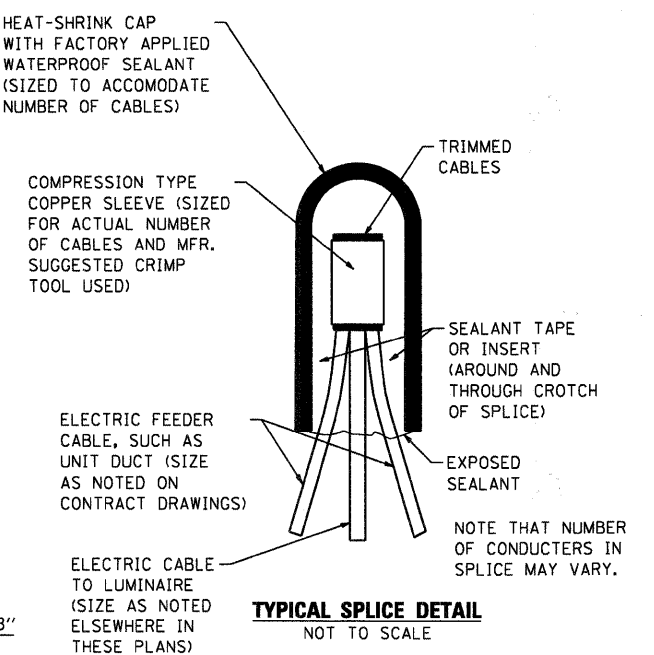
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

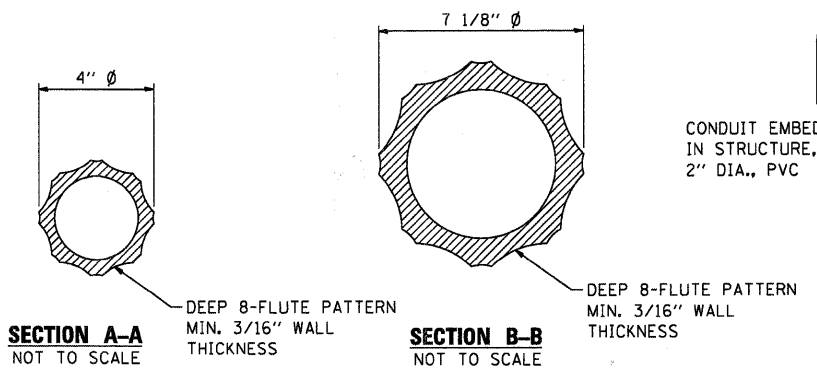


ORNAMENTAL LIGHT UNIT, COMPLETE

TYPICAL WIRING IN TRENCH DETAIL
NOT TO SCALE

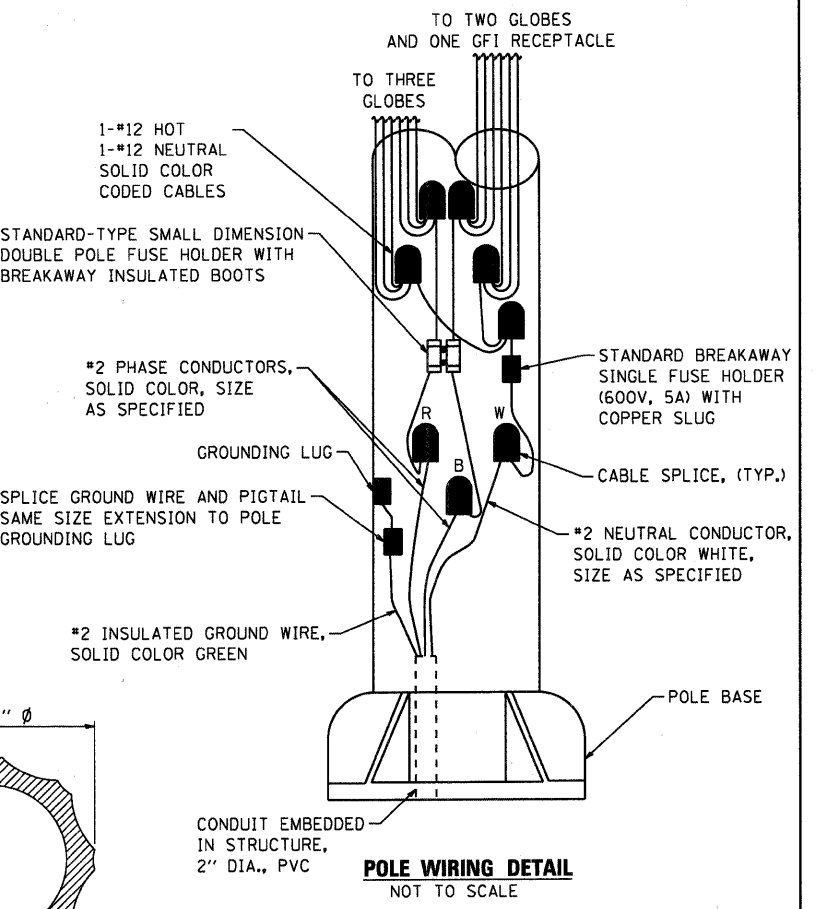


TYPICAL SPLICE DETAIL
NOT TO SCALE

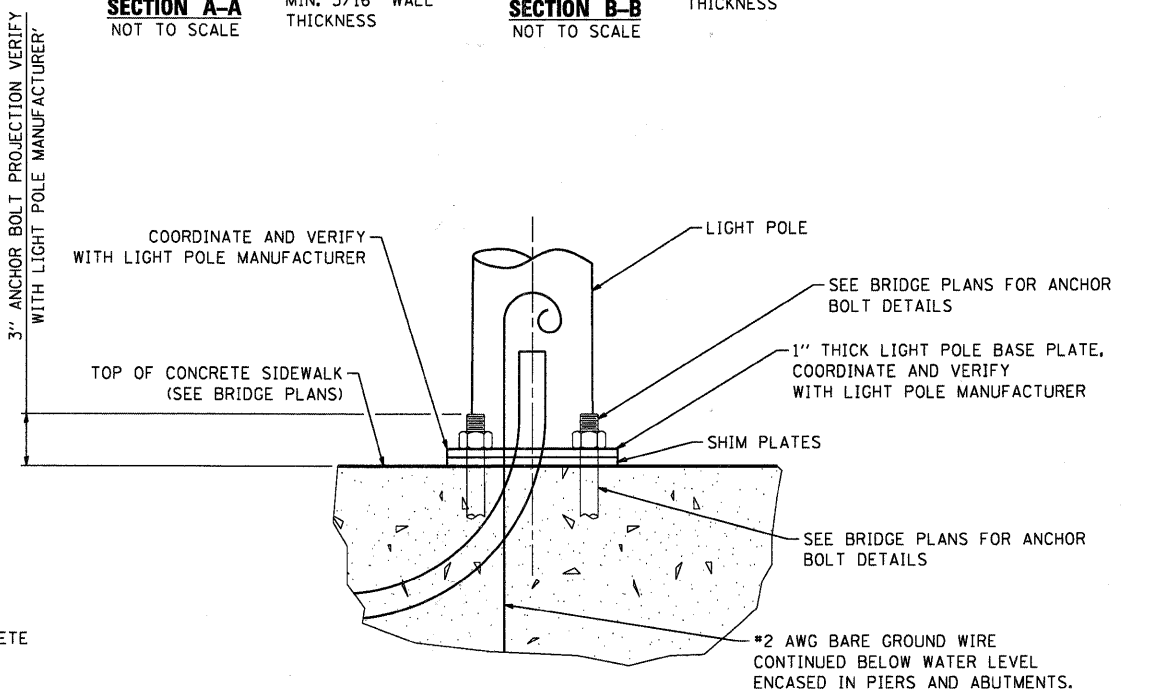


SECTION A-A
NOT TO SCALE

SECTION B-B
NOT TO SCALE



POLE WIRING DETAIL
NOT TO SCALE



INSTALLATION DETAIL FOR POLES MOUNTED ON BRIDGES
NOT TO SCALE

COST FOR ANCHOR BOLTS, CONDUIT ELBOWS, PADS, HARDWARE PLATES AND FASTENERS INCLUDED WITH ORNAMENTAL LIGHT POLE, COMPLETE.

HRGREEN
PROJECT CONTACT: Michael C. Harshbarger
CLIENT: CITY OF AURORA
FILE NAME: 86090472-Elc04.dgn
PLOT DRIVER: pdfplot
PEN TABLE: Struct 22x34.tbl



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PLOT SCALE =	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DATE - 7/26/11	REVISED -

CITY OF AURORA

**LIGHTING DETAILS
DOWNER PLACE**

SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	52
CONTRACT NO. 63620				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

Benchmark 1:
Northeast bolt on fire hydrant in the southwest quadrant of Stolp Avenue and Downer Place. Approximately Sta. 111+60, ±34' Rt. southwest of centerline of Downer Place and ±37' of the centerline of Stolp Avenue. Elevation: 638.31 (NAVD 88)

Benchmark 2:
Bolt on top flange of fire hydrant labeled "Bury" located in front of the "Grand Army of the Republic" (G.A.R.) building at the southwest quadrant of the intersection of Downer Place and the Fox River on the East side of the Island. Approximately Sta. 114+84, ±36'Rt. of the centerline of Downer Place. Elevation: 638.09 (NAVD 88)

Existing Structure:
SN 045-6006 constructed circa 1910 as a three span cast-in-place concrete closed spandrel arch with an out-to-out width of 63'-8" and a total length of 172'-11". The existing arch is to be removed and replaced with a PPC Deck Beam superstructure on built up piers and abutments. The existing foundations will be re-used.

No salvage

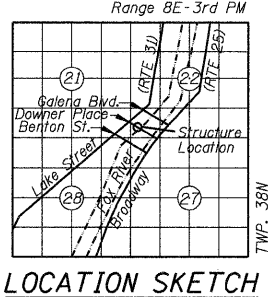
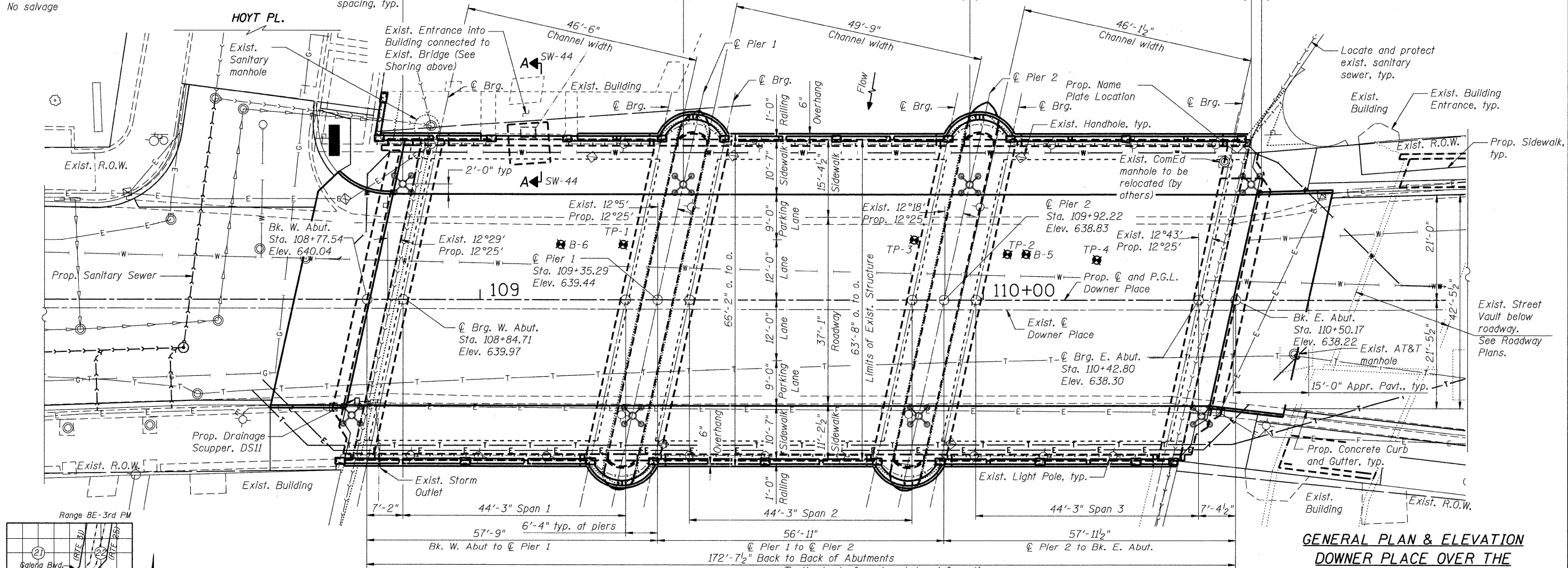
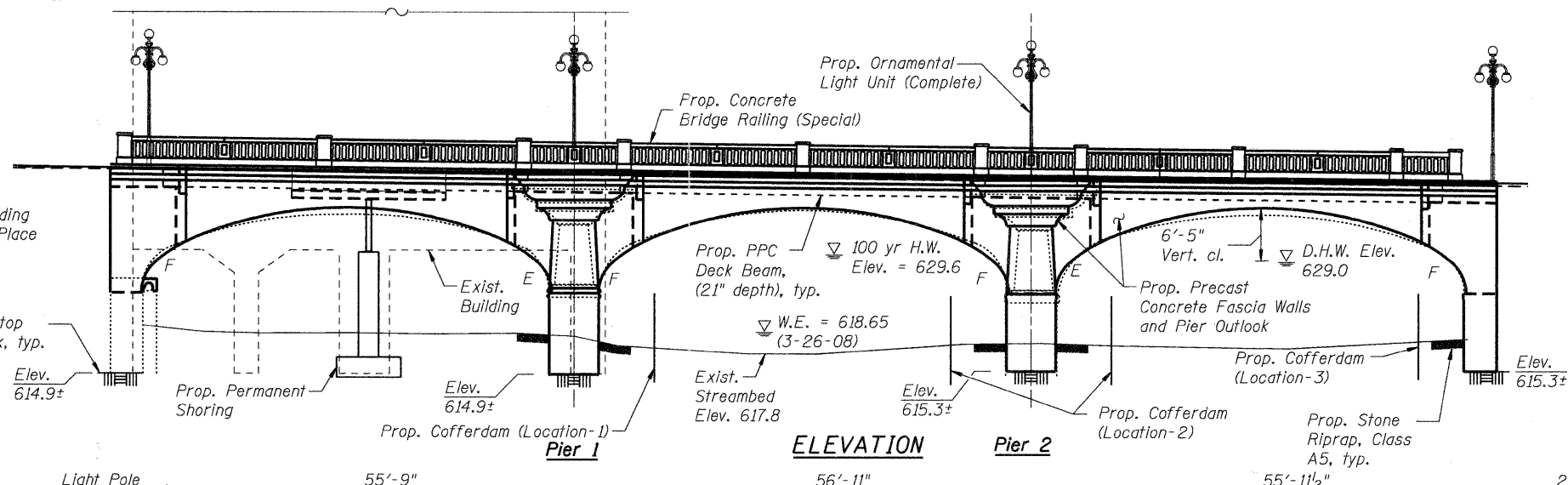
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" φ low lax. strands)
fpbt = 201,960 psi (1/2" φ low lax. strands)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

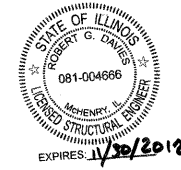
DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = .038g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = .103g
Soil Site Class = B



PLAN
See SW-3 for utility legend

To the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".
Robert Sklar 7/1/2011
Structural Engineer
HR Green Inc. Date



GENERAL PLAN & ELEVATION
DOWNER PLACE OVER THE
WEST BRANCH OF THE FOX RIVER
PUBLIC WATER
SECTION NO. 07-00264-00-BR
KANE COUNTY
STATION 109+64.00
STRUCTURE NO. 045-6006

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Michael G. Harara
CLIENT: City of Aurora
DATE PLOTTED: 7/1/2011 10:31:56 AM
FILE NAME: 86090412-W-0401.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: Struct 22x34.tbl



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PLLOT DATE = 7/1/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

SHEET NO. SW-1 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	53
			CONTRACT NO. 63620	

ILLINOIS FED. AID PROJECT

INDEX OF SHEETS

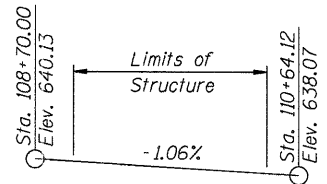
SW-1	General Plan and Elevation
SW-2	General Data
SW-3	General Data
SW-4	Demolition Plan and Details
SW-5	Demolition Details - Piers
SW-6	Demolition Details - Abutments
SW-7	Top of Approach Slab Elevations
SW-8	Bridge Approach Slab Details
SW-9	Bridge Approach Slab Details
SW-10	Superstructure Plan and Cross Section
SW-11	Superstructure Details
SW-12	Concrete Railing Details
SW-13	Concrete Railing Details
SW-14	Concrete Railing Details
SW-15	Concrete Railing Details
SW-16	21"x48" PPC Deck Beam
SW-17	21"x48" PPC Deck Beam Details
SW-18	Drainage Scupper, DS-11
SW-19	Precast Concrete Panel - Notes
SW-20	Precast Concrete Panel - Assembly
SW-21	Precast Concrete Fascia Panel - Spandrel
SW-22	Precast Concrete Fascia Panel - Spandrel
SW-23	Precast Concrete Fascia Panel - Spandrel
SW-24	Precast Concrete Fascia Panel - Abutment
SW-25	Precast Concrete Fascia Panel - Abutment
SW-26	Precast Concrete Fascia Panel - Abutment
SW-27	Precast Concrete Fascia Panel - Pier
SW-28	Precast Concrete Outlook - Top Details
SW-29	Precast Concrete Outlook - Bottom Details
SW-30	West Abutment
SW-31	West Abutment Details
SW-32	Northwest Corner Details
SW-33	Southwest Corner Details
SW-34	East Abutment
SW-35	East Abutment Details
SW-36	Northeast Corner Details
SW-37	Southeast Corner Details
SW-38	Pier I
SW-39	Pier I
SW-40	Pier II
SW-41	Pier II
SW-42	Pier Details
SW-43	Bar Splicer Assembly
SW-44	31 W. Downer Place Building Entry Support
SW-45	31 W. Downer Place Building Entry Support
SW-46	31 W. Downer Place Building Entry Support
SW-47	Boring Logs
SW-48	Boring Logs

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 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 cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
- All construction joints are bonded unless otherwise specified in the plans.
- If a portion of the pier wall or 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.
- Existing reinforcement shall be cleaned and incorporated into the new construction. See Demolition Plan and Detail sheets. Cost included with Concrete Removal.
- The Contractor is reminded that:
 - As built and/or design drawings of the existing Downer Place bridges are not available. The outlines of portions of the existing abutments and piers that are not visible are approximations based on details available for similar bridges.
 - Existing buildings in the vicinity are listed as historic. Many predate the construction of the Downer Place bridges. Drawings for these buildings are typically not available.
 - The Contractor shall protect property adjacent to the right of way in accordance with article 107.20 and the Special Provisions. If the Contractor chooses to conduct a preconstruction condition survey of existing buildings and structures, he shall be responsible for contacting building owners to arrange access and keep records of the findings. The Resident Engineer shall be informed (in writing) of contacts made in this regard.
 - The cost of any work or materials the Contractor deems necessary to protect adjacent properties shall be included under "Remove Existing Structures" and shall not be paid for separately.
 - Pedestrian access to existing buildings shall be maintained in accordance with Article 107.09 and coordinated with the building owner. The Resident Engineer shall be informed (in writing) of contacts made in this regard.
- In-stream work is not allowed from April 1 - June 15 per IDNR. During this time work is allowed within the limits of Underwater Structure Excavation Protection.
- The Contractor must contact Robert Schanzle, Permit Program Manager, IDNR, Office of Realty and Environmental Planning at 217-785-5500 prior to any de-watering activities to coordinate a biologist to be on site for the relocation of any exposed mussels.

SUGGESTED CONSTRUCTION SEQUENCE

- Coordinate mussel survey with IDNR-OREP. See General Note 11.
- Install Cofferdam. See Sheet 38 for locations.
- Support building entrance for 31 W. Downer Place.
- Remove existing structures as shown in removal plans (Removal of Existing Structures).
- Repair pier bases and abutments as shown on removal, pier and abutment plans (Structural Repair of Concrete).
- Form and cast center section of piers and abutments include anchor bolts for light poles (Concrete Structures and Ornamental Light Unit, Complete).
- Install center twelve deck beams (Precast Prestressed Concrete Deck Beams).
- Erect pier and abutment fascia panels. Temporarily support as required (Furnishing and Erecting Precast Concrete Panels).
- Install bar splicers and connection hardware to back side of fascia panels at abutments and piers (Reinforcement Bars, Epoxy Coated and Furnishing and Erecting Precast Concrete Panels).
- Cast abutment and pier closure pours between center section and precast fascia panel (Concrete Structures).
- Erect outside deck beams (Precast Prestressed Concrete Deck Beams).
- Construct concrete wearing surface, include embedded conduit and hardware for lighting (Concrete Wearing Surface, 5" and Conduit Embedded in Structure).
- Construct approach pavement (Concrete Superstructure).
- Construct "hatch block" concrete between deck beams at piers and between approach pavements and beam ends at abutments (Concrete Superstructure).
- Erect center fascia panels. Connect temporary lateral support and/or pipe hangers as need to support precast (Furnishing and Erecting Precast Concrete Panels).
- Erect outlook upper section; shim and align with roadway profile and grout vertical anchor tubes (Furnishing and Erecting Precast Concrete Panels).
- Install hanger assemblies.
- Coordinate with AT&T to connect conduit to nearby vaults (by AT&T).
- Install (hang) watermain and rigid metal conduit for AT&T, ComEd, Comcast, and City of Aurora.
- Construct remaining hanger assemblies.
- Install sidewalk bar splicers into spanning fascia panels and outlooks (Reinforcement Bars, Epoxy Coated).
- Install formwork between fascia panels and outside deck beams (Concrete Superstructure).
- Construct sidewalk (Concrete Superstructure).
- Install bar splicers for cast-in-place rail base (Reinforcement Bars, Epoxy Coated).
- Construct base sections of bridge rail (Concrete Bridge Railing (Special)).
- Install precast elements of bridge rail (Concrete Bridge Railing (Special)).
- Construct pilaster/closure sections of bridge rail (Concrete Bridge Railing (Special)).
- Construct HMA pavement.



PROFILE GRADE
(Along Center Roadway)

WATERWAY INFORMATION

Existing Low Grade Elev. 637.02 @ Sta. 111+50									
Drainage Area = 1705 Sq Mi. Proposed Low Grade Elev. 637.02 @ Sta. 111+50									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	8400	1353	1353	627.0	0	0	627.0	627.0
Base	100	9180	1569	1569	629.0	0	0	629.0	629.0
Overtopping	>500	1609	1609	1609	629.6*	0.1	0.1	629.7	629.7

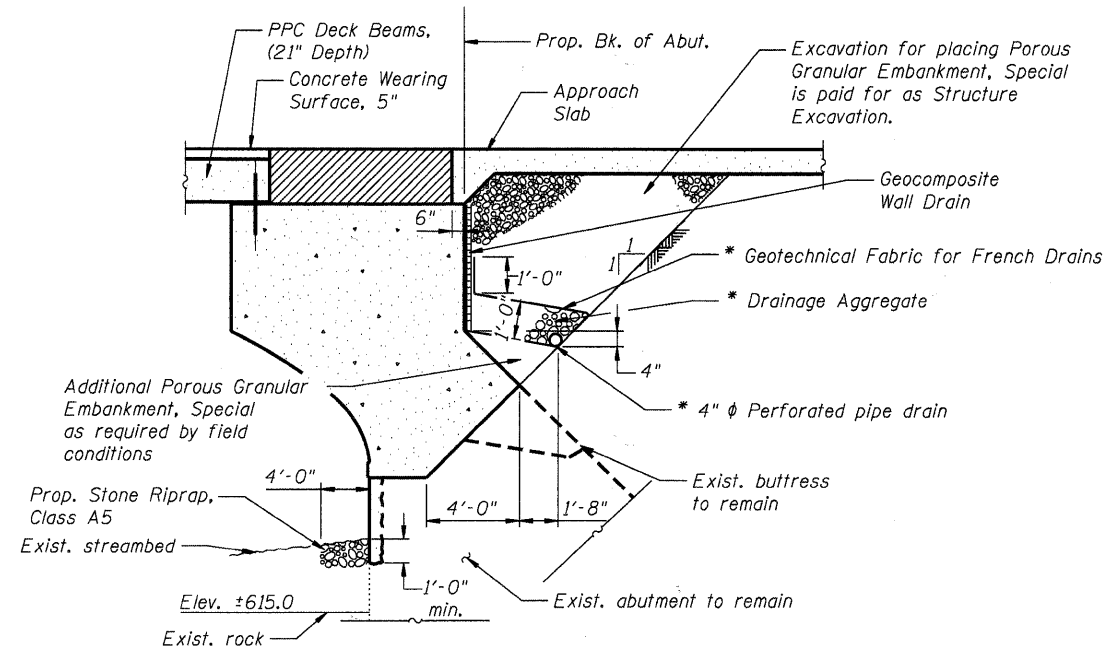
* = Interpolated

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harafing
 DATE PLOTTED: 7/26/2011 10:58:47 AM
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 PLOT DRIVER: pdfplot
 PEN TABLE: Struct 22x34.tbl

	USER NAME = whood PLOT SCALE = N.T.S. PLOT DATE = 7/26/2011	DESIGNED - MGH CHECKED - RGD DRAWN - WJH CHECKED -	REVISED - REVISED - REVISED - REVISED -	CITY OF AURORA DOWNER PLACE OVER THE WEST BRANCH OF THE FOX RIVER	GENERAL DATA STRUCTURE NO. 045-6006 SHEET NO. SW-2 OF SW-48 SHEETS	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	07-00264-00-BR KANE 164 54
	CONTRACT NO. 63620 [ILLINOIS] FED. AID PROJECT						

TOTAL BILL OF MATERIAL

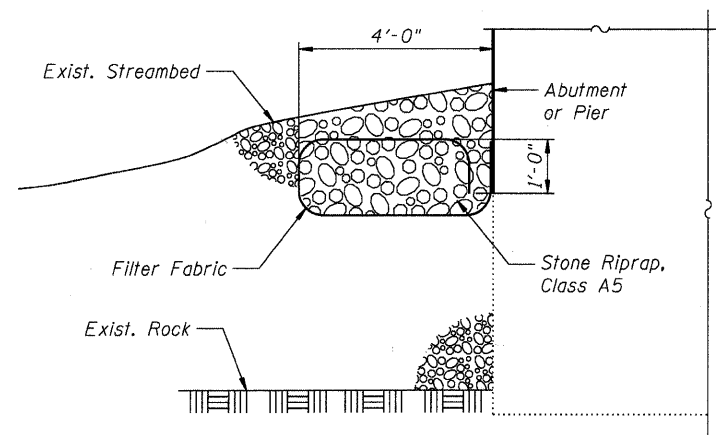
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq Yd	---	195	195
Filter Fabric	Sq Yd	---	1,174	1,174
Removal of Existing Structures No. 1	Each	0.5	0.5	1
Concrete Removal	Cu Yd	---	190.0	190.0
Structure Excavation	Cu Yd	---	304.8	304.8
Cofferdam Excavation	Cu Yd	---	285.4	285.4
Cofferdam (Location - 1)	Each	---	1	1
Cofferdam (Location - 2)	Each	---	1	1
Cofferdam (Location - 3)	Each	---	1	1
Concrete Structures	Cu Yd	---	1,065.0	1,065.0
Concrete Superstructure	Cu Yd	319.9	---	319.9
Bridge Deck Grooving	Sq Yd	905	---	905
Protective Coat	Sq Yd	1,365	---	1,365
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	7,636	---	7,636
Furnishing And Erecting Structural Steel	Pound	---	2,300	2,300
Reinforcement Bars	Pound	---	1,420	1,420
Reinforcement Bars, Epoxy Coated	Pound	35,010	82,780	117,790
Bar Splicers	Each	258	437	695
Name Plates	Each	1	---	1
Concrete Sealer	Sq Ft	---	600	600
Geocomposite Wall Drain	Sq Yd	---	88	88
Concrete Bridge Railing	Foot	351	---	351
Porous Granular Embankment, Special	Cu Yd	---	299.0	299.0
Concrete Wearing Surface, 5"	Sq Yd	732	---	732
Pedestrian Rail (Special)	Foot	1	---	1
Structural Repair Of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	---	2,819	2,819
Structural Repair Of Concrete (Depth Greater than 5 Inches)	Sq Ft	---	705	705
Drainage Scupper, DS11	Each	1	---	1
Silicone Joint Sealer, 1"	Foot	151	---	151
Pipe Underdrains for Structures 4"	Foot	---	144	144
Furnishing And Erecting Precast Concrete Panels, Structure 1	L Sum	1	---	1



SECTION THRU ABUTMENT

Dimensions at Rt. L's

*Included in the cost of Pipe Underdrains for Structures, 4".

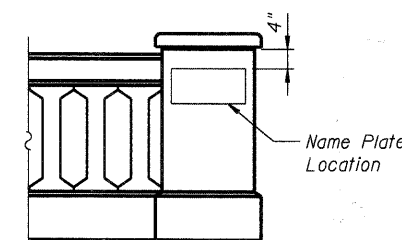


STONE RIPRAP DETAIL

LEGEND

For SW-1

- T — Exist. Telephone. Abandoned by AT&T prior to Const.
- E — Exist. City of Aurora electric, to be relocated
- W — Exist. City of Aurora water main, 12"
- T — Prop. conduit for AT&T
- W — Prop. City of Aurora water main, 12"
- E — Prop. conduit for ComEd and Comcast
- O — Prop. conduit for City of Aurora



NORTHEAST PILASTER

(Center Name Plate horizontally on pilaster.)

STATION 109+64
RE-BUILT 201_ BY
CITY OF AURORA
LOADING HL-93
STRUCTURE NO. 045-6006

NAME PLATE

See Std. 515001

COMPANY NAME: HRGREEN
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
PROJECT: 07-00264-00-BR
FILE NAME: 0609042-1-000000.dgn
PLOT DRIVER: pdfcut
PEN TABLE: Struct_22x34.tbl



USER NAME = whood
PLOT SCALE = N.T.S.
PLOT DATE = 7/26/2011

DESIGNED - MGH
CHECKED - RGD
DRAWN - WJH
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

**GENERAL DATA
STRUCTURE NO. 045-6006**

SHEET NO. SW-3 OF SW-48 SHEETS




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	55
			CONTRACT NO. 63620	

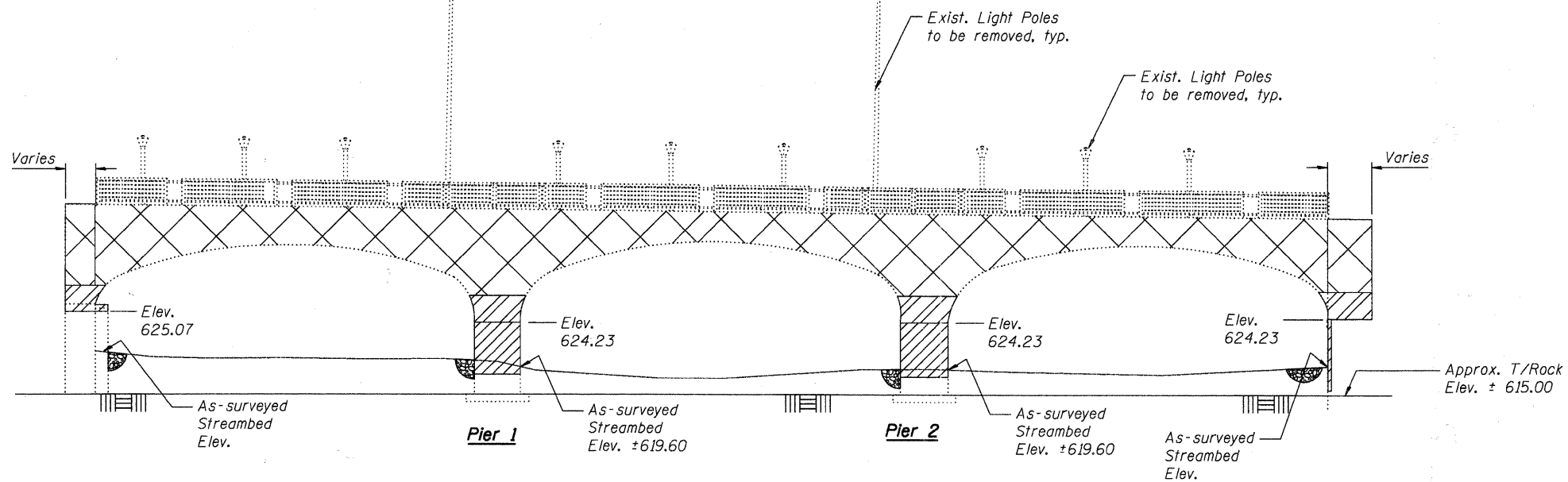
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

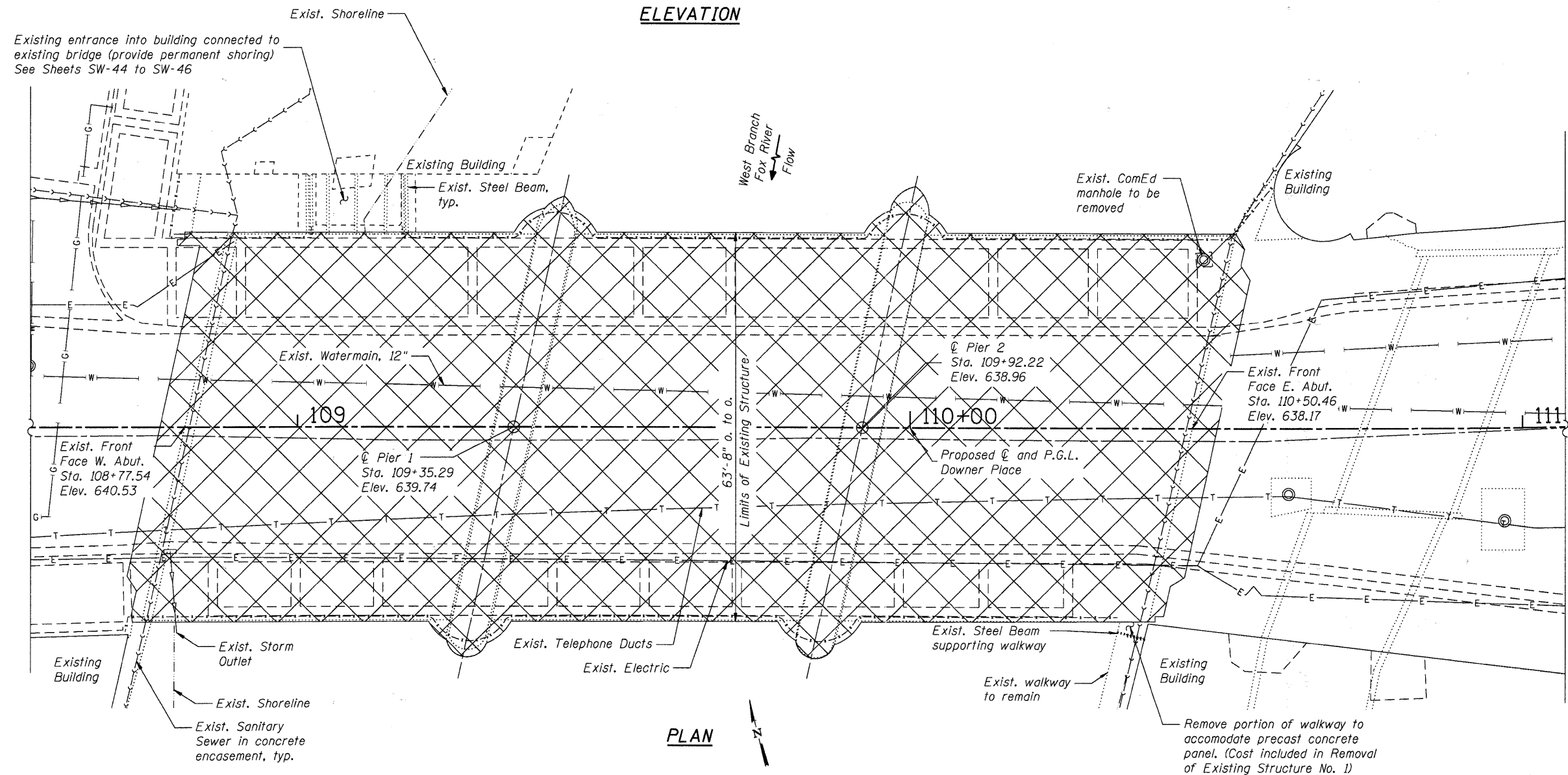
ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	L. Sum	1
Concrete Removal	Cu. Yd.	190.0
Structural Repair of Concrete (Depth Equal to or Less than 5 in.)	Sq. Ft.	2,819
Structural Repair of Concrete (Depth Greater than 5 in.)	Sq. Ft.	705

LEGEND

-  Removal associated with Structural Repair of Concrete
-  Removal of Existing Structures No. 1
-  Concrete Removal for Splicing Existing Reinforcement



ELEVATION



PLAN

- Notes:
- Removal of the existing bridge, rails, light poles, sidewalk, conc. spandrel walls, fill, conc. retaining walls, pavement, concrete arches, and upper portions of piers and abutments are items included in the pay item "Removal of Existing Structures No. 1."
 - Partial removal of the existing concrete abutments and piers as shown on this sheet and the following two sheets is included in the pay item "Concrete Removal."
 - Partial removal and repair of the existing concrete abutments and piers, as shown on this sheet and the following two sheets is included in the pay item "Structural Repair of Concrete."
 - The Illinois Department of Transportation is NOT the owner of record for this bridge. Those seeking historic, As-Built or other existing documents and plans must contact the owner of record to make arrangements for access to this information. The owner of record is the City of Aurora and they have no historic, As-Built or other existing documents or plans for this bridge.
 - Work this sheet and the following two sheets with pier and abutment sheets SW-30 to SW-42.
 - Existing reinforcement extending into removal area shall be cleaned, straightened, and incorporated into new construction. Cost included in pay item "Concrete Removal."

HRGreen
 PROJECT CONTACT: Michelle G. Northing
 CITY OF AURORA
 FILE NAME: 005501.M
 PLOT DRIVER: 06/09/21
 PEN TABLE: Struct_22x34.tbl

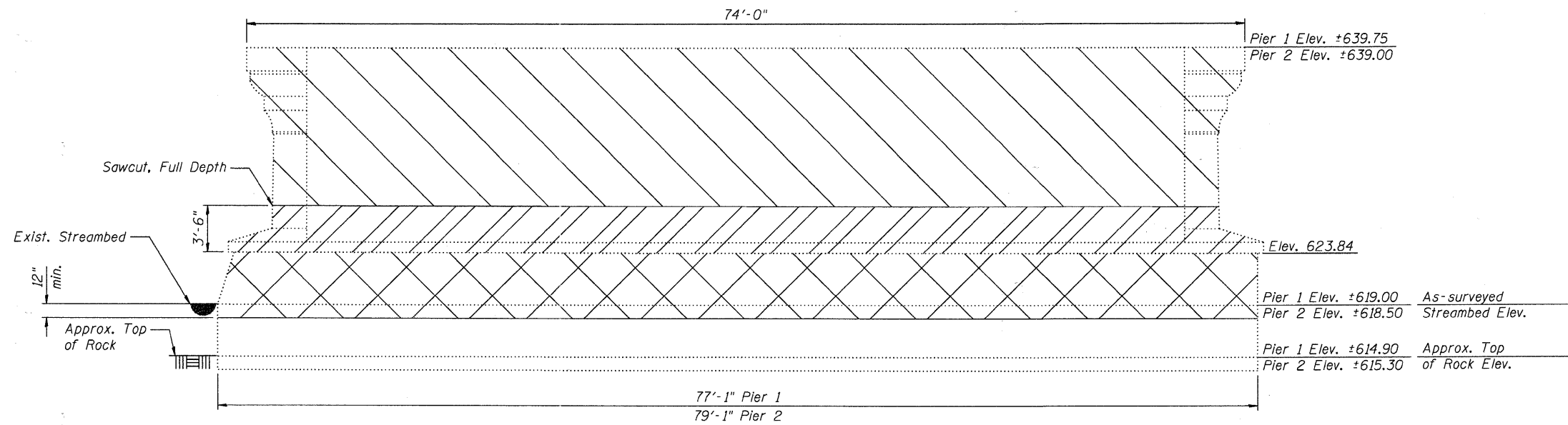
HRGreen.com
 Illinois Professional Design Firm
 #184-001922

USER NAME = wwood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

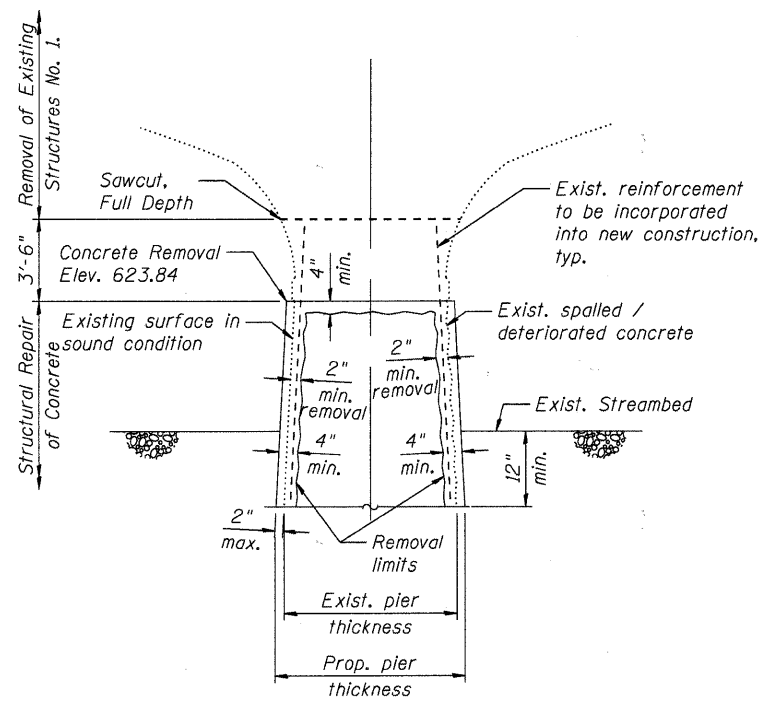
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

DEMOLITION PLAN AND DETAILS
STRUCTURE NO. 045-6006
 SHEET NO. SW-4 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	56
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				



PIER ELEVATION
(Looking East)



REMOVAL SECTION THRU PIER

The proposed pier thickness shall be the original thickness plus two inches on each side, but must include a minimum of two inches of concrete removal from the existing conditions down to sound concrete in accordance with Guide Bridge Special Provision "Structural Repair of Concrete" and a total thickness of no less than four inches of new/repair concrete.

LEGEND

- Indicates area of Removal of Existing Structures No. 1.
- Indicates removal area associated with Structural Repair of Concrete
- Indicates area of Concrete Removal for reinforcement splicing

Notes:

1. Removal of the existing bridge, rails, light poles, sidewalk, conc. spandrel walls, fill, conc. retaining walls, sawcuts, pavement, concrete arches and piers are included in the pay item "Removal of Existing Structures No. 1."
2. The Illinois Department of Transportation is NOT the owner of record for this bridge. Those seeking historic, As-Built or other existing documents and plans must contact the owner of record to make arrangements for access to this information. The owner of record is the City of Aurora and they have no historic, As-Built or other existing documents or plans for this bridge.
3. Existing reinforcement extending into removal area shall be cleaned, straightened, and incorporated into the new construction. Cost included in pay item Concrete Removal.
4. Work this sheet with pier and abutment sheets SW-30 to SW-42.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:58:05 AM
 PLOT USER: 8601212-11060-1010-1010.dgn
 PEN TABLE: Struct_22x34.tbl



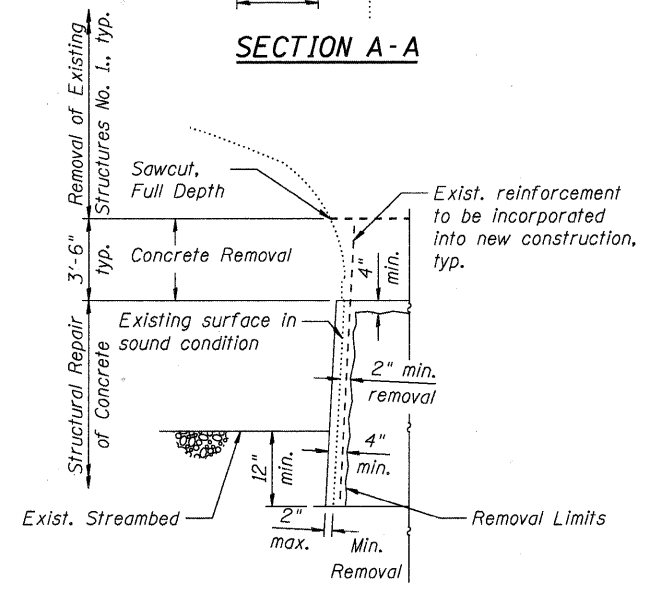
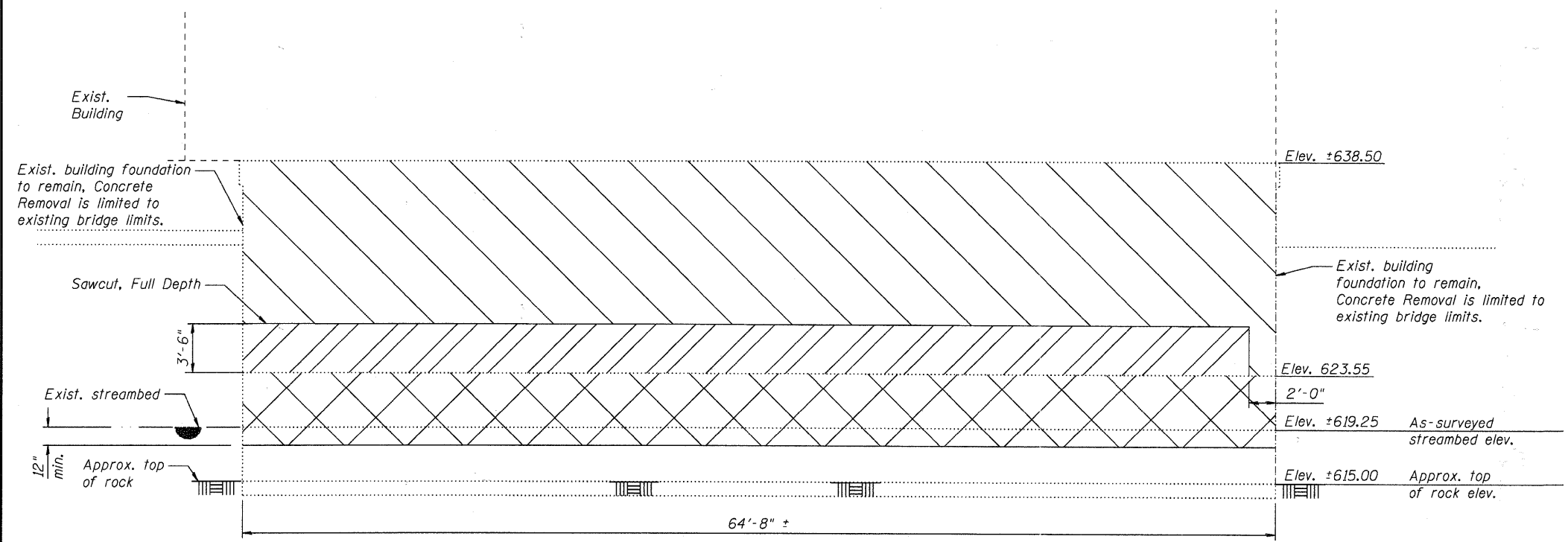
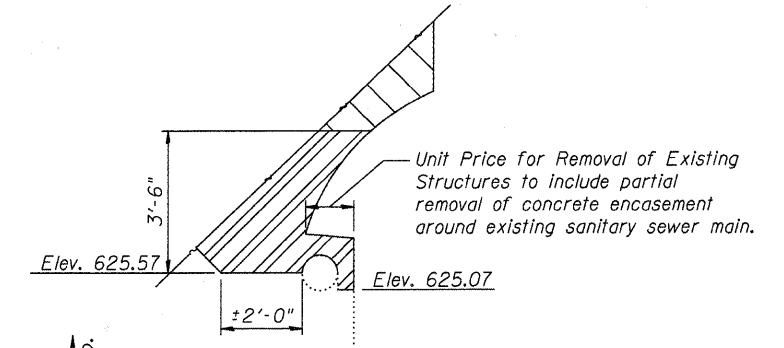
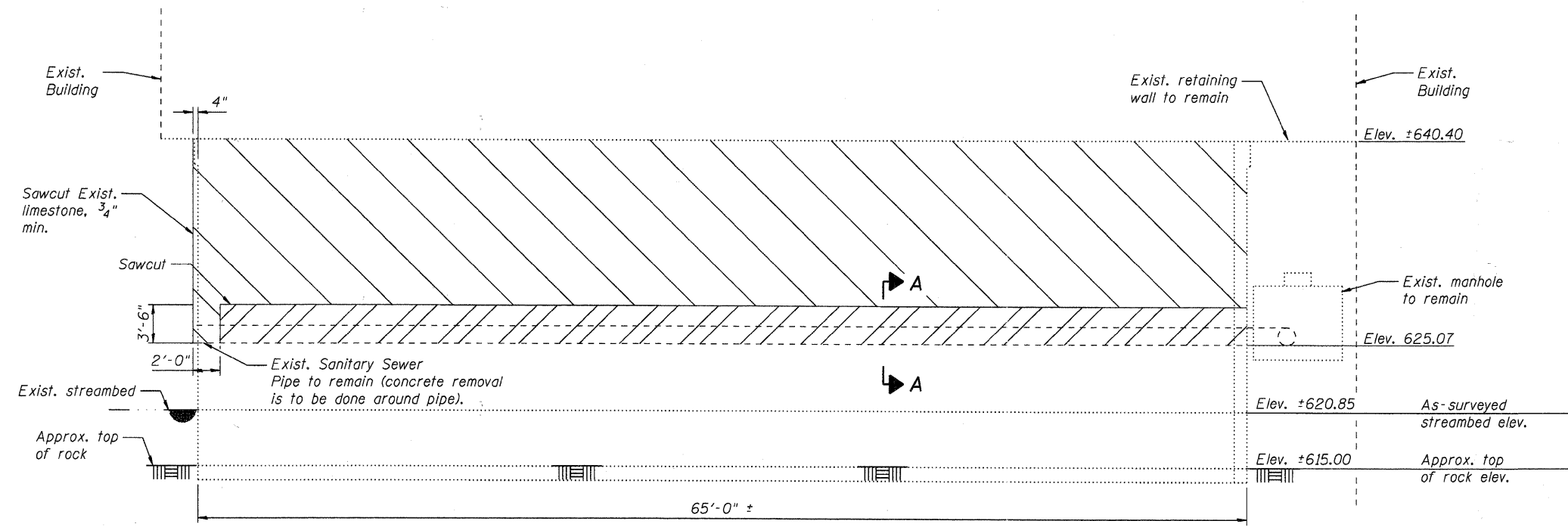
USER NAME = whood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

DEMOLITION DETAILS - PIERS
STRUCTURE NO. 045-6006
 SHEET NO. SW-5 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	57
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

- Notes:
1. Removal of the existing bridge, rails, sidewalk, conc. spandrel walls, fill, conc. retaining walls, sawcuts, pavement, concrete arches and piers are all included in the pay item "Removal of Existing Structures No. 1."
 2. The Illinois Department of Transportation is NOT the owner of record for this bridge. Those seeking historic, As-Built or other existing documents and plans must contact the owner of record to make arrangements for access to this information. The owner of record is the City of Aurora and they have no historic, As-Built or other existing documents or plans for this bridge.
 3. Existing reinforcement extending into removal area shall be cleaned, straightened, and incorporated into the new construction. Cost included in pay item Concrete Removal.
 4. Work this sheet with Pier and Abutment sheets SW-30 through SW-42.



LEGEND

- Indicates area of Removal of Existing Structures
- Indicates removal area associated with Structural Repair of Concrete
- Indicates area of Concrete Removal for Reinforcement Splicing

REMOVAL SECTION THRU EAST ABUTMENT

Areas of Structural Repair of Concrete:
For areas of sound concrete, the face of the abutment shall match the original profile plus two inches, but must include a minimum of two inches of concrete removal from the existing conditions down to sound concrete in accordance with Guide Bridge Special Provision "Structural Repair of Concrete" and a total thickness of no less than four inches of new/repair concrete.

Section Thru West Abut. is similar, except there is no Structural Repair of Concrete.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:59:08 AM
 FILE NAME: 86250412.dwg
 PLOT NUMBER: SW-6
 PEN TABLE: SW-6



USER NAME = whood	DESIGNED - JMW	REVISED -
	CHECKED - RGD	REVISED -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISED -
PLOT DATE = 7/26/2011	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

DEMOLITION DETAILS - ABUTMENTS
STRUCTURE NO. 045-6006
 SHEET NO. SW-6 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	58
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	

℄. CROWN, & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	108+63.05	0.00	640.25
A	108+70.55	0.00	640.12
E. End of W. Appr.	108+78.05	0.00	640.04
W. End of E. Appr.	110+49.65	0.00	638.22
B	110+57.15	0.00	638.14
E. End of E. Appr.	110+64.65	0.00	638.06

NORTH GUTTER LINE

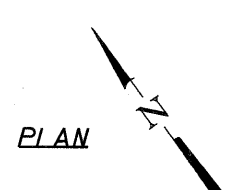
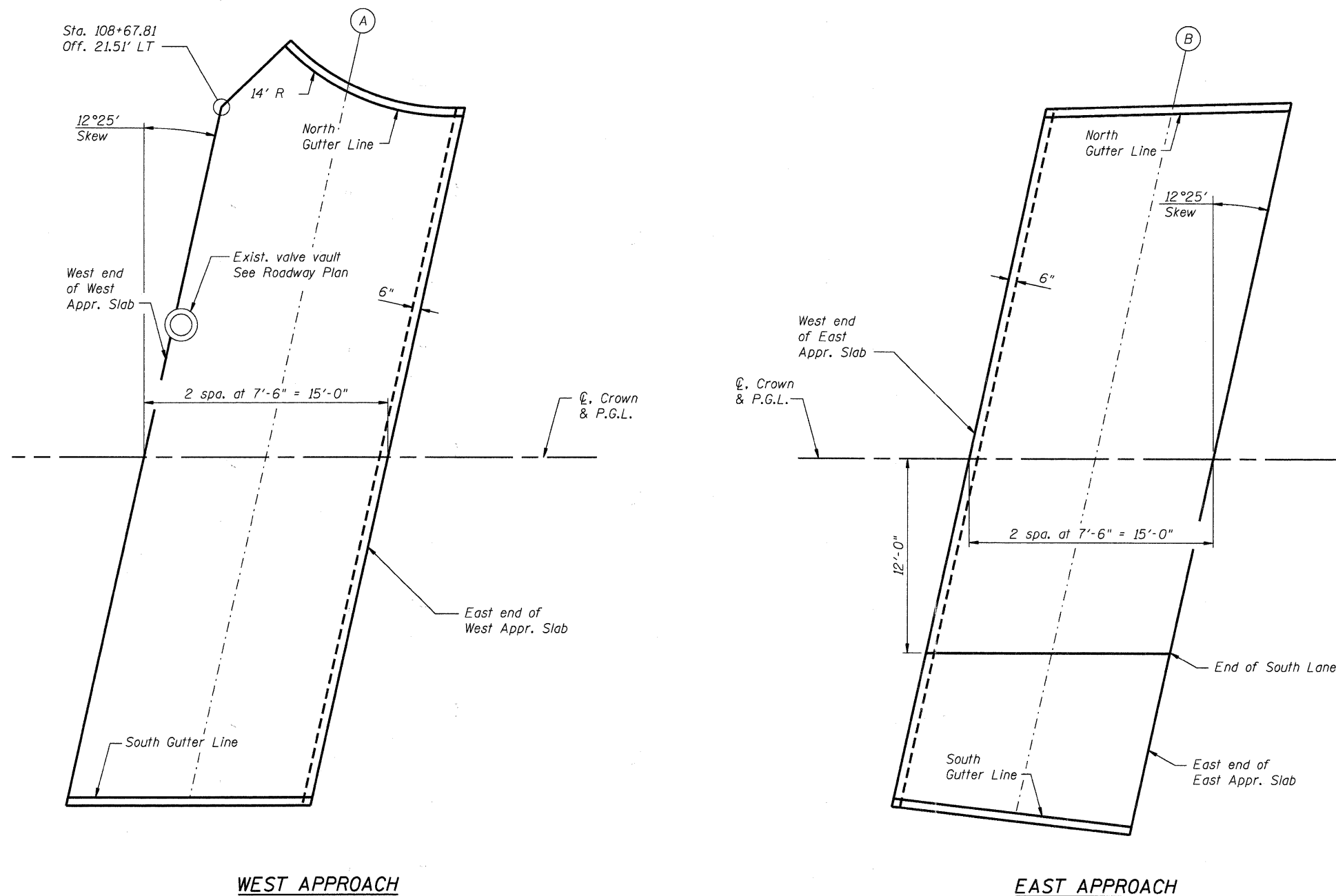
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	108+71.72	-25.28	639.59
A	108+75.53	-22.48	639.60
E. End of W. Appr.	108+82.67	-21.00	639.56
W. End of E. Appr.	110+54.28	-21.00	637.74
B	110+61.82	-21.20	637.59
E. End of E. Appr.	110+69.37	-21.41	637.43

SOUTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	108+58.44	20.81	640.01
A	108+65.95	20.91	639.83
E. End of W. Appr.	108+73.43	21.00	639.66
W. End of E. Appr.	110+45.03	21.00	637.84
B	110+52.34	21.85	637.72
E. End of E. Appr.	110+59.66	22.69	637.60

EDGE OF SOUTH LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	110+47.01	12.00	638.00
B	110+54.51	12.00	637.92
E. End of E. Appr.	110+62.01	12.00	637.84



COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:58:15 AM
 FILE NAME: 07-00264-00-01.dgn
 PLOT DRIVER: pldrvr.ctb
 PEN TABLE: Struct 20x14.tbl


HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

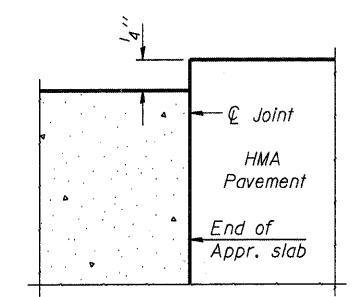
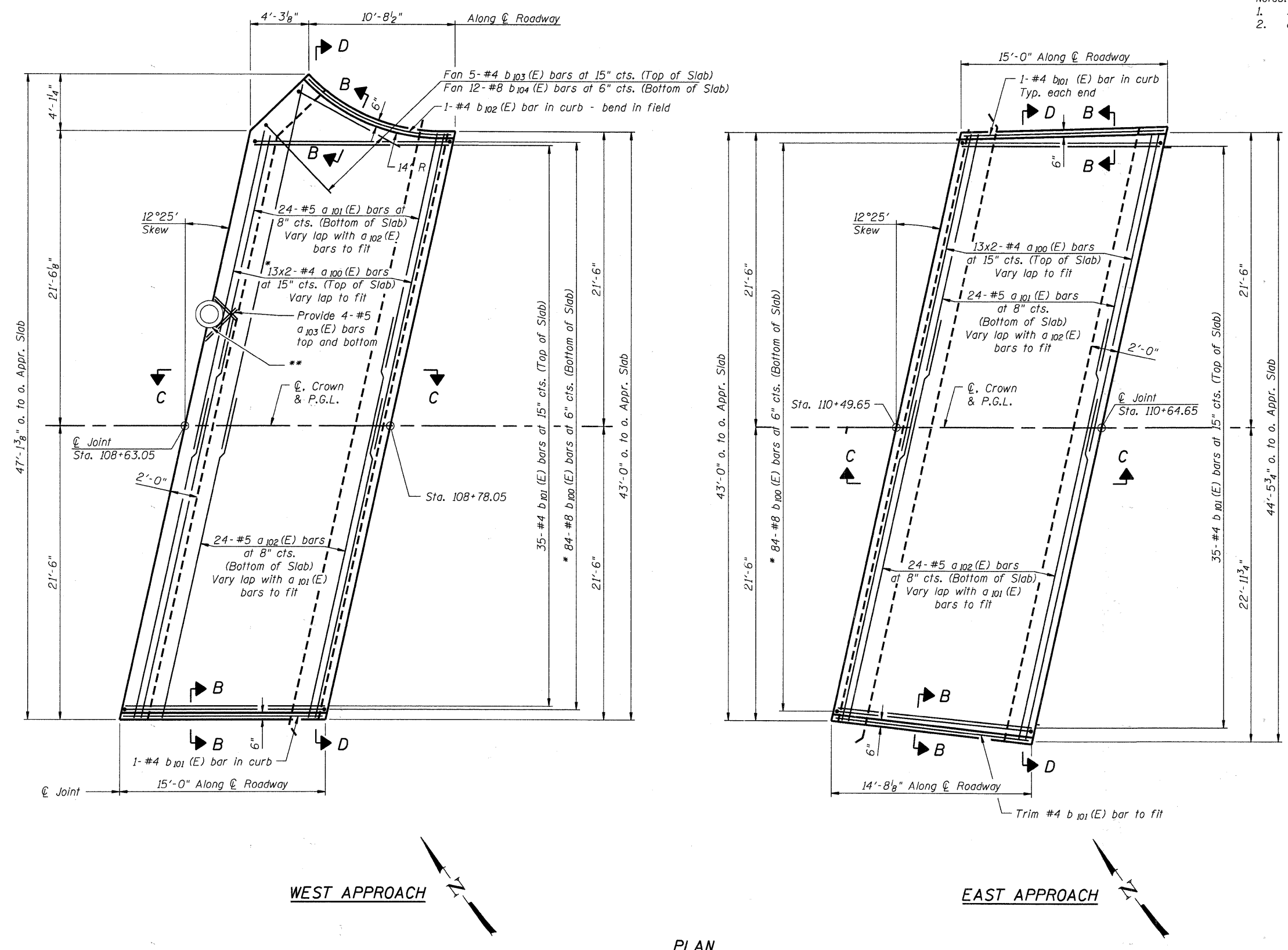
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PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 045-6006
 SHEET NO. SW-7 OF SW-48 SHEETS

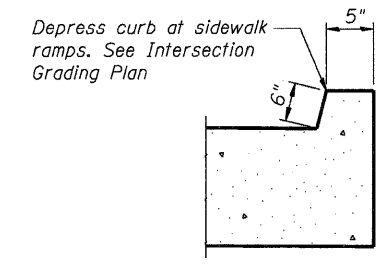
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	59
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

Notes:
 1. See next sheet for Sections C-C & D-D.
 2. $a_{100}(E)$, $a_{101}(E)$ and $a_{102}(E)$ bar spacings measured along C.R.



FLEXIBLE PAVEMENT

DETAIL A



VIEW B-B

MINIMUM BAR LAP
 #4 bar = 2'-1"
 #5 bar = 2'-7"

* Tilt #8 $b_{100}(E)$ and #4 $a_{100}(E)$ bars as required to maintain clearance.
 ** Form around existing water valve vault frame and lid. Provide 1/2" P.J.F. at interface. Trim reinforcement to fit. Cost of P.J.F. included in "Concrete Superstructure."

HRGREEN
 COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michelle G. Herding
 CLIENT: City of Aurora
 FILE NAME: 032821.dwg
 PLOT DRIVER: pldrvr
 PEN TABLE: Struct 22x34.tbl

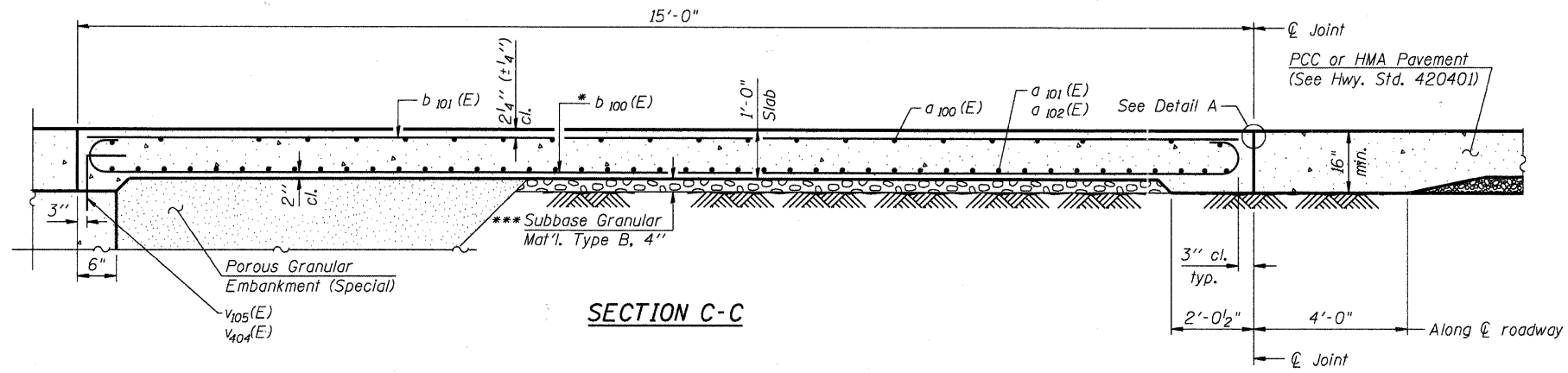


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PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

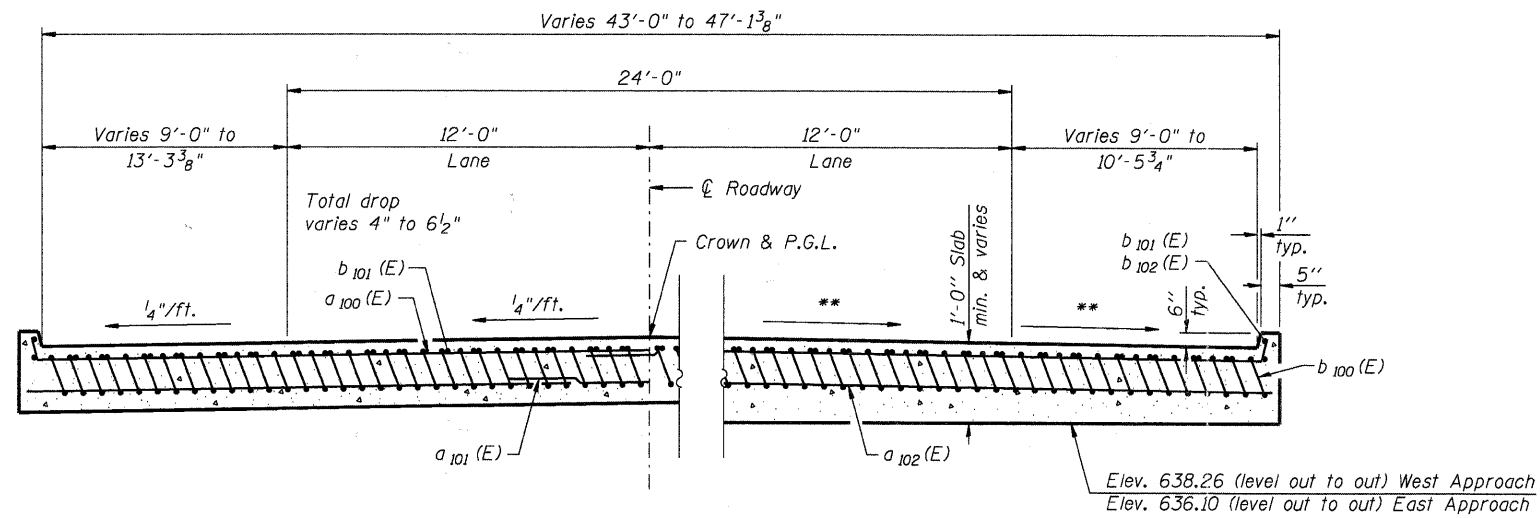
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-6006
 SHEET NO. SW-8 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	60
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



Notes:

1. See previous sheet for Detail A and View B-B.
2. Approach slab concrete shall be paid for as Concrete Superstructure.
3. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
4. For v(E) bar details, see sheets SW-31 and SW-35.
5. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
6. Cost of excavation for approach included with Concrete Superstructure.
7. For Porous Granular Embankment (Special) and drainage treatment details, see sheet SW-3.



* Tilt #8 b₁₀₀(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

NEAR ABUTMENT

AT CONNECTOR PAVEMENT

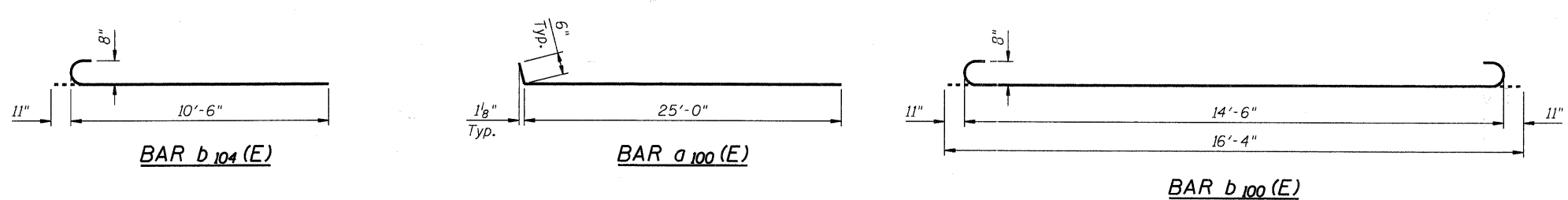
SECTION D-D

(See Plan for dimensions not shown)

** Varies 1.5% to 2% West Approach
Varies 2.2% to 2.6% East Approach

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₁₀₀ (E)	52	#4	25'-6"	—
a ₁₀₁ (E)	48	#5	20'-6"	—
a ₁₀₂ (E)	48	#5	30'-0"	—
a ₁₀₃ (E)	8	#5	6'-0"	—
b ₁₀₀ (E)	168	#8	16'-4"	—
b ₁₀₁ (E)	73	#4	14'-6"	—
b ₁₀₂ (E)	1	#4	11'-6"	—
b ₁₀₃ (E)	5	#4	7'-2"	—
b ₁₀₄ (E)	12	#8	11'-5"	—
Concrete Superstructure			Cu. Yd.	51.6
Bridge Deck Grooving			Sq. Yd.	138
Protective Coat			Sq. Yd.	150
Reinforcement Bars, Epoxy Coated			Pound	11,890



(Sheet 2 of 2)

HRGreen
Company Name: HRGreen
Project Contact: [Name]
Client: [Name]
Date Plotted: 7/26/2011 10:59:24 AM
File Name: 86090412-W-AS02.dwg
Plot Driver: pcf.plt
Pen Table: Struct_20x34.tbl

HRGreen
Illinois Professional Design Firm
#184-001322

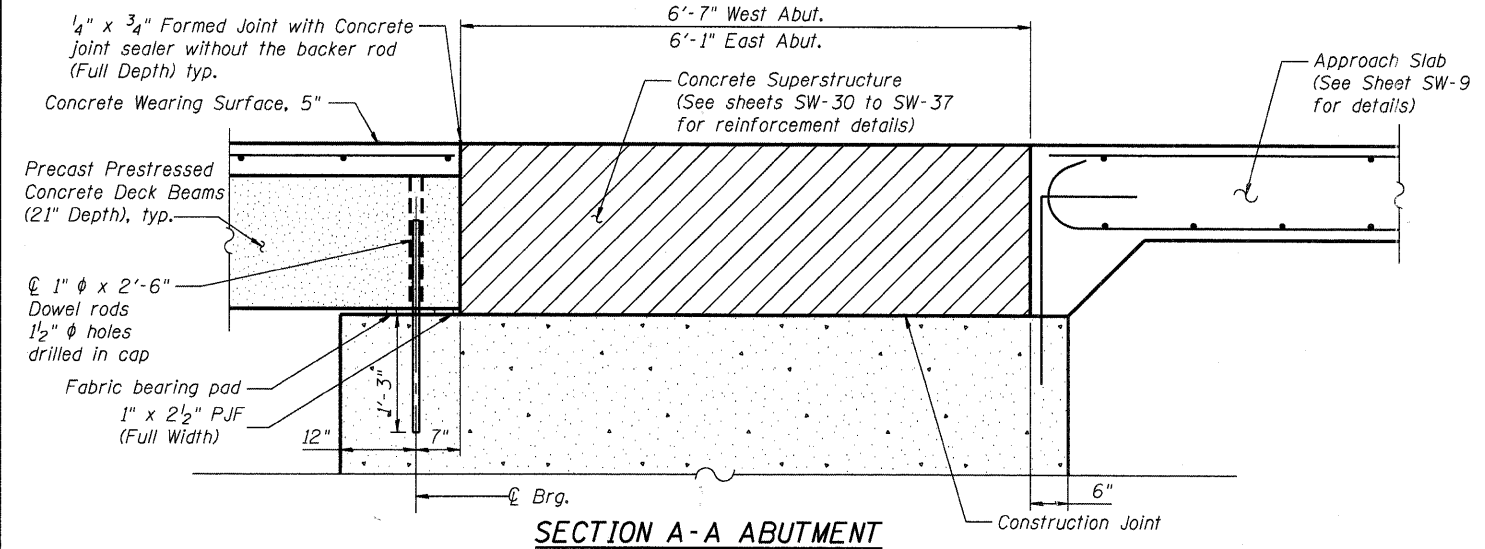
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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

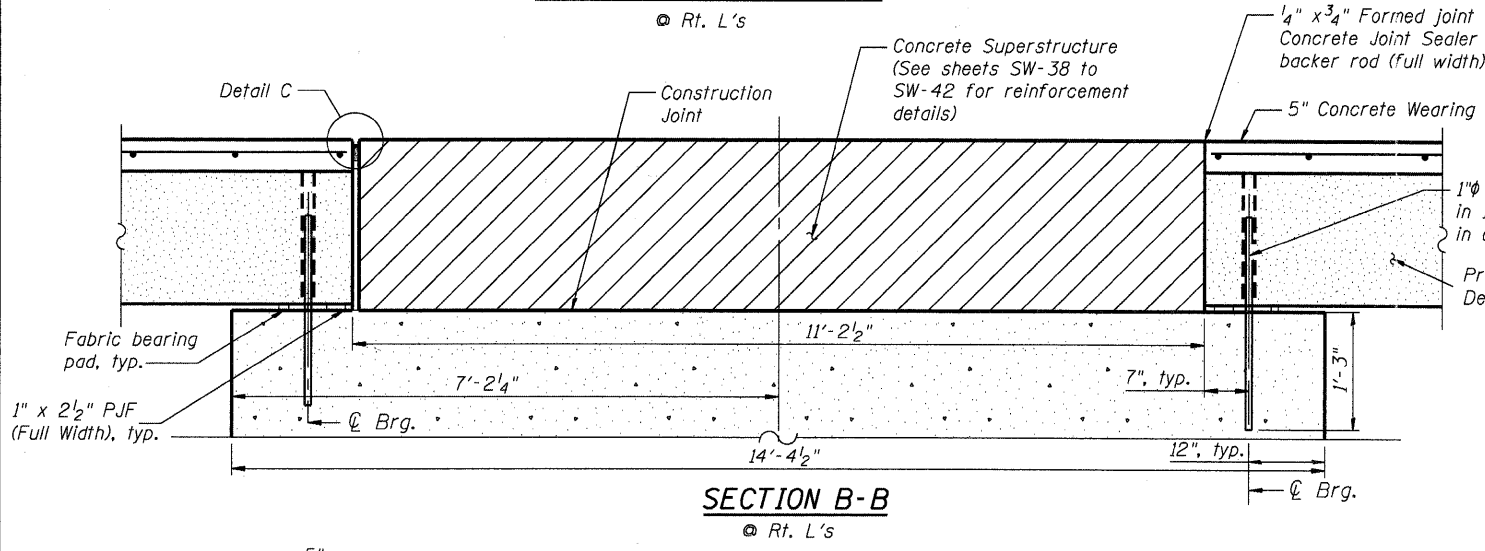
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-6006**

SHEET NO. SW-9 OF SW-48 SHEETS

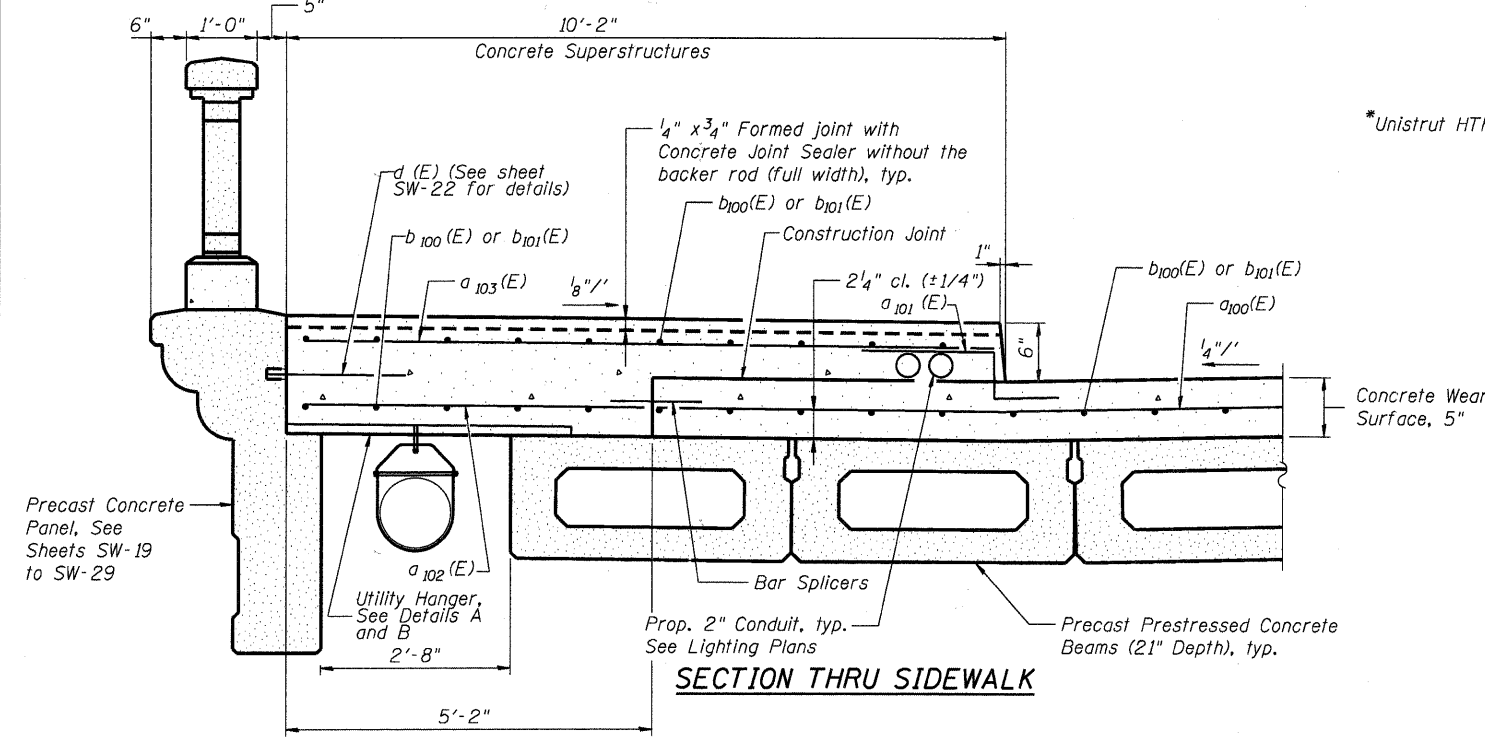
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	61
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



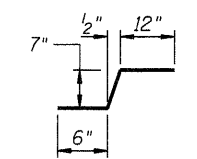
SECTION A-A ABUTMENT
© Rt. L's



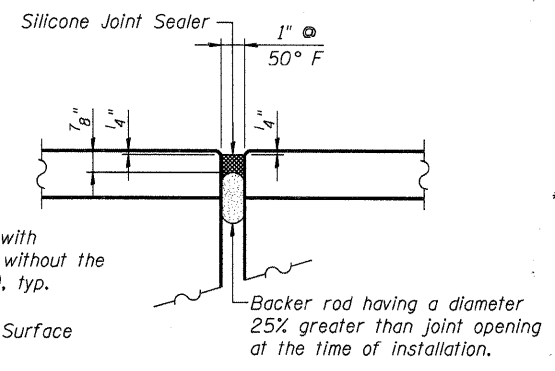
SECTION B-B
© Rt. L's



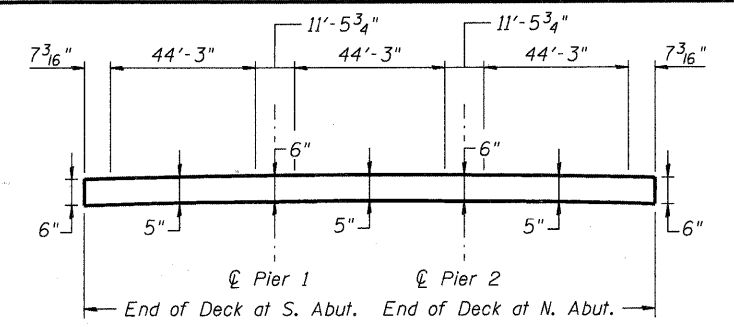
SECTION THRU SIDEWALK



BAR a101 (E)

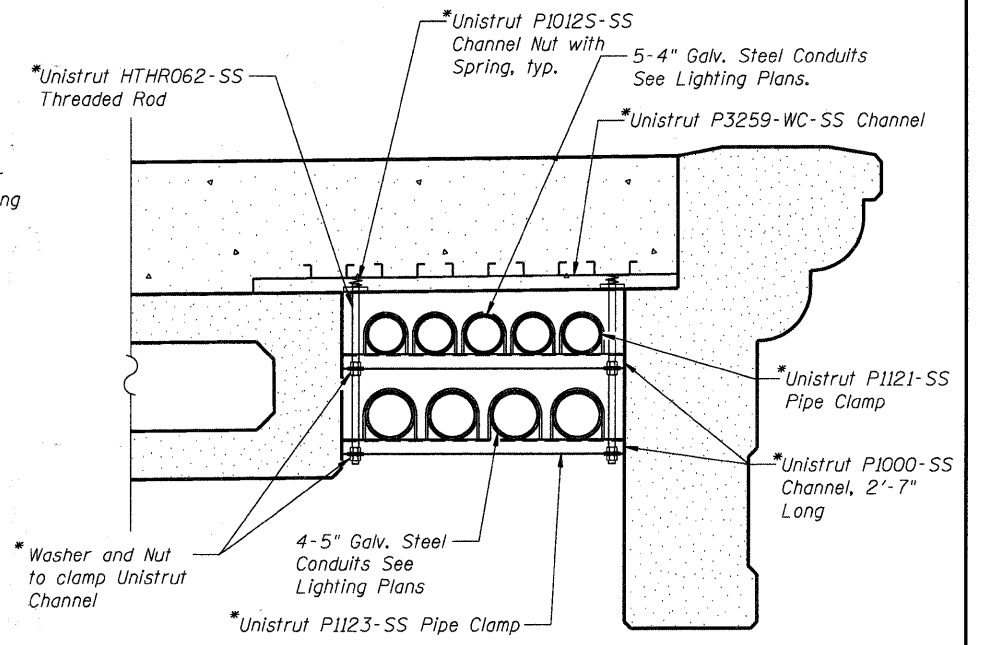


DETAIL C

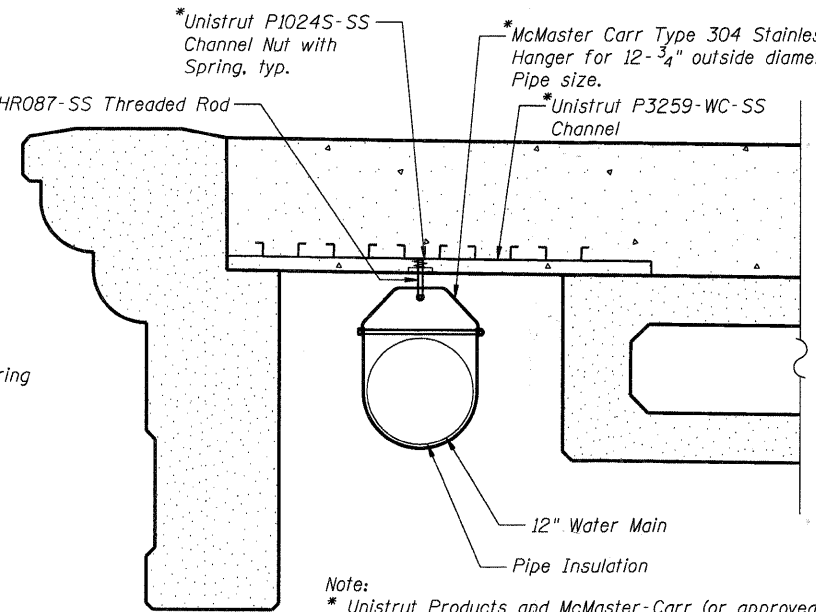


ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)
Thickness is based on calculated camber and deflection of PPC Deck Beams. Actual camber of individual units may vary up to ±1/2". Adjust thickness to match PGL and cross slope.



DETAIL B



DETAIL A

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
a100	258	#4	27'-9"	—
a101	320	#5	2'-1"	—
a102	258	#4	5'-0"	—
a103	320	#5	10'-1"	—
a104	48	#5	6'-5"	—
a105	14	#4	3'-6"	—
b100	466	#5	23'-0"	—
b101	44	#5	35'-2"	—
b102	4	#4	12'-11"	—
b103	32	#4	11'-0"	—
Concrete Superstructure		Cu. Yd.	91.1	
Bridge Deck Grooving		Sq. Yd.	767	
Protective Coat		Sq. Yd.	1,215	
Reinforcement Bars, Epoxy Coated		Pound	23,120	
Bar Splicers		Each	258	
Concrete Wearing Surface, 5"		Sq. Yd.	732.0	
Silicone Joint Sealer, 1"		Foot	151	

Note:
* Unistrut Products and McMaster-Carr (or approved equal) included in the cost for Concrete Superstructure. See Special Provisions for approved equal.

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CITY OF AURORA, ILL.
CLIENT: CITY OF AURORA, ILL.
FILE NAME: 06090472-#55001.dgn
PLOT DRIVER: PLOTDRIVER
PEN TABLE: Structure 22x34.tbl



USER NAME = whood
DESIGNED - JPG
CHECKED - RGD
DRAWN - WJH
CHECKED -
PLOT SCALE = N.T.S.
PLOT DATE = 7/26/2011

DESIGNED - JPG
CHECKED - RGD
DRAWN - WJH
CHECKED -
REVISED -
REVISED -
REVISED -
REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 045-6006

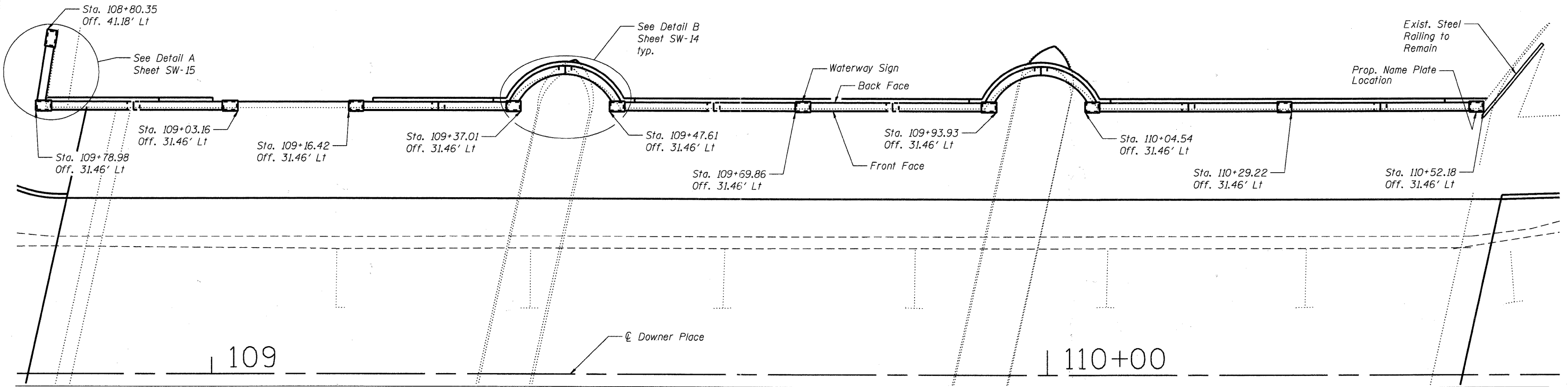
SHEET NO. SW-11 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	63
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

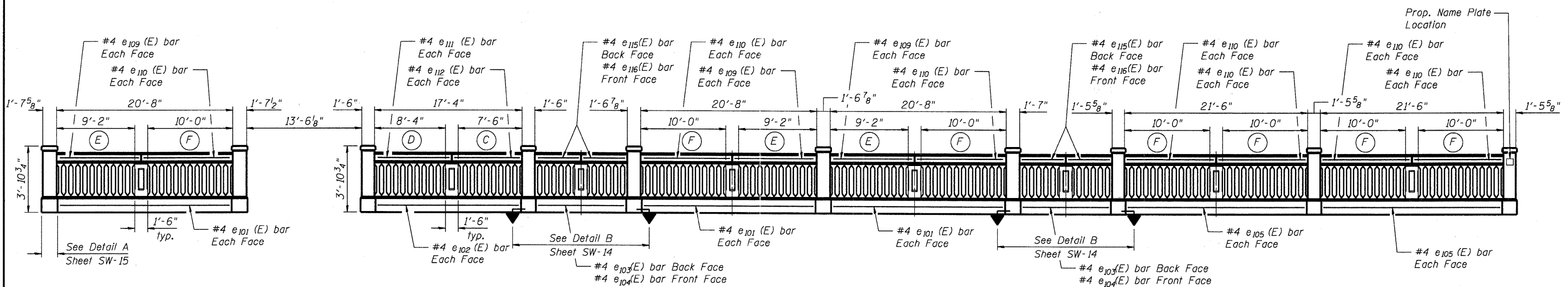
RAILING NOTES

- Concrete Bridge Railing (Special) shall consist of furnishing and erecting the cast in place base of rail, span pilasters, pilasters and the precast balusters, top rail, and cap. This work shall include the drilling and epoxy grouting of the $d_{101}(E)$ bars were necessary and the $d_{105}(E)$ balluster bars into the base of rail and rail.
- The precast concrete shall be constructed in accordance with Section 504 of the Standard Specifications.
- The cast in place concrete pilasters and base of rail shall match the concrete finish of the precast members and aggregate type. Contractor shall supply a concrete mix design which is compatible with the precast manufacturer's mix design to ensure uniformity of color and texture on the Concrete Bridge Railing (Special).
- Finish according to Article 503.16 and the Concrete Finishes specification.

TOP RAIL LENGTHS	
A	6'-5 3/4"
B	7'-3 3/4"
C	8'-1 3/4"
D	8'-11 3/4"
E	9'-9 3/4"
F	10'-7 3/4"
G	11'-5 3/4"
H	13'-11 3/4"



PLAN



NORTH ELEVATION
(Looking North)

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:58:46 AM
 PLOT DWMR: 8629472-H-Railing.dgn
 PLOT TABLES: Struct 20x34.tbl



USER NAME = whood	DESIGNED - JPG	REVISED -
CHECKED - RGD	DRAWN - WJH	REVISED -
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PLOT DATE = 7/26/2011		

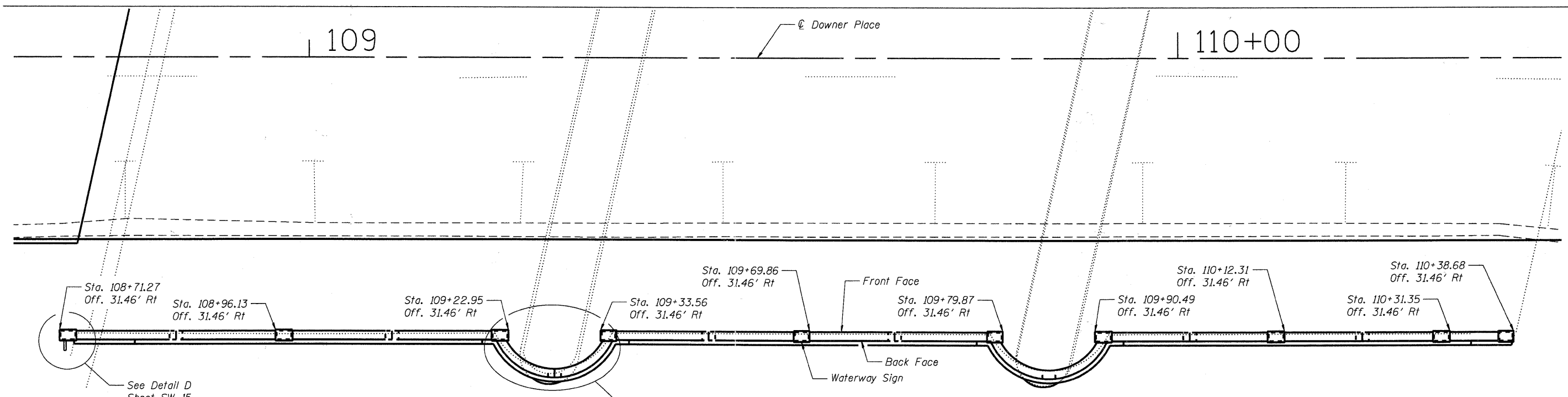
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

CONCRETE RAILING DETAILS
STRUCTURE NO. 045-6006

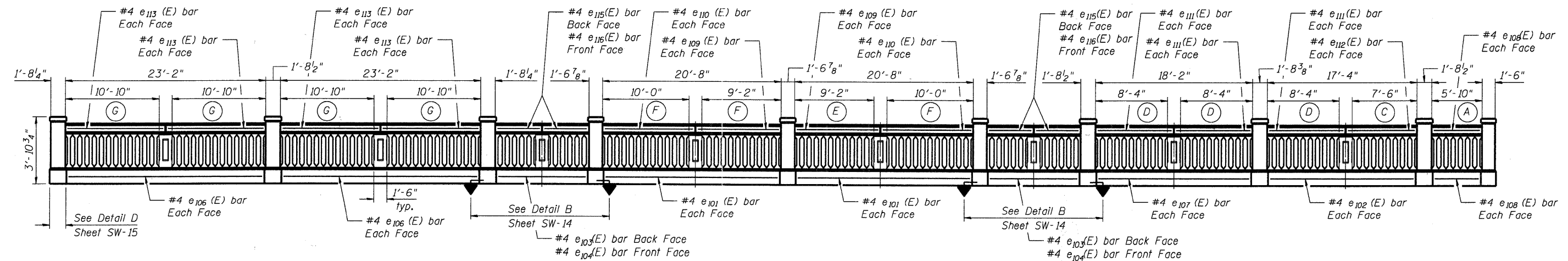
SHEET NO. SW-12 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	64
CONTRACT NO. 63620				
ILLINOIS FED. AID PROJECT				

TOP RAIL LENGTHS	
A	6'-5 3/4"
B	7'-3 3/4"
C	8'-1 3/4"
D	8'-11 3/4"
E	9'-9 3/4"
F	10'-7 3/4"
G	11'-5 3/4"
H	13'-11 3/4"



PLAN



SOUTH ELEVATION
(Looking North)

HRGreen
 COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CITY: Aurora, IL
 CLIENT: City of Aurora
 FILE NAME: 045-6006.dwg
 PLOT DRIVER: pldrvr.plt
 PLOT SCALE: 1/8"=1'-0"
 PLOT DATE: 7/26/2011

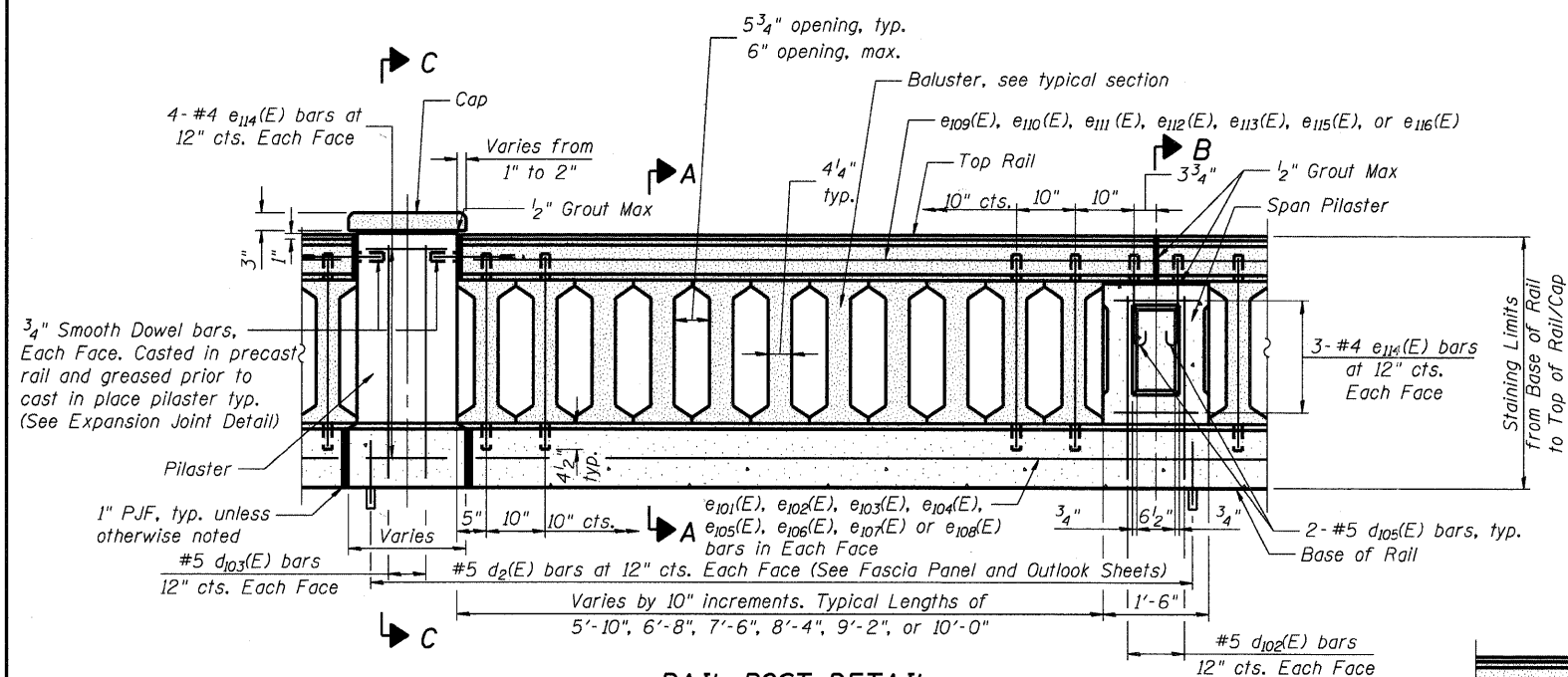
HRGreen.com
 Illinois Professional Design Firm
 #194-001322

USER NAME = whood	DESIGNED - JPG	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

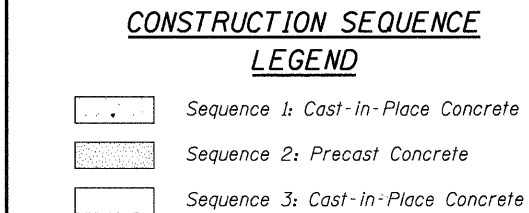
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

CONCRETE RAILING DETAILS
STRUCTURE NO. 045-6006
 SHEET NO. SW-13 OF SW-48 SHEETS

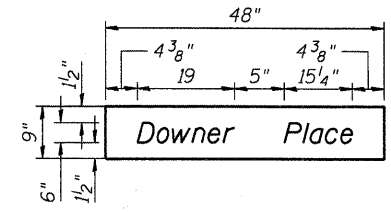
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	65
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



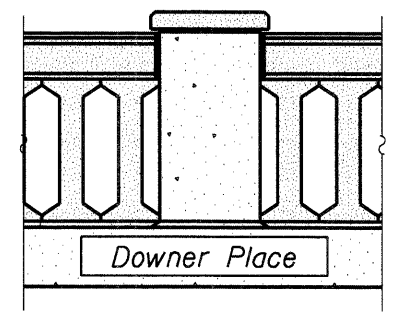
RAIL POST DETAIL



CONSTRUCTION SEQUENCE LEGEND

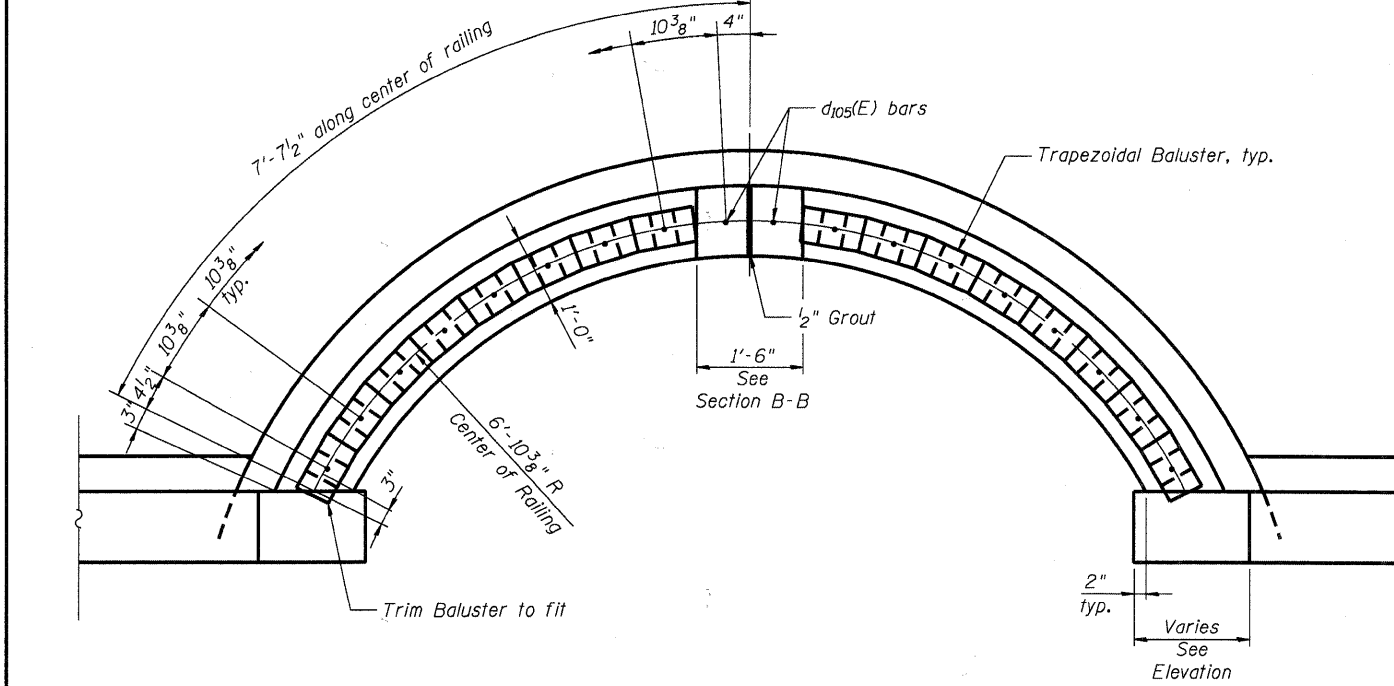


WATERWAY SIGN DETAIL



WATERWAY SIGN

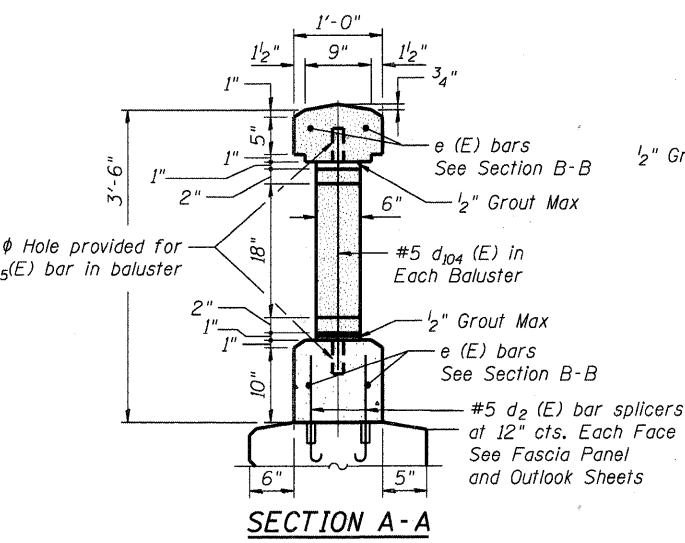
Sign shall be provided according to Section 720 of the Standard Specifications. Connection to be approved by the Engineer. Cost included in Concrete Bridge Railing (Special)



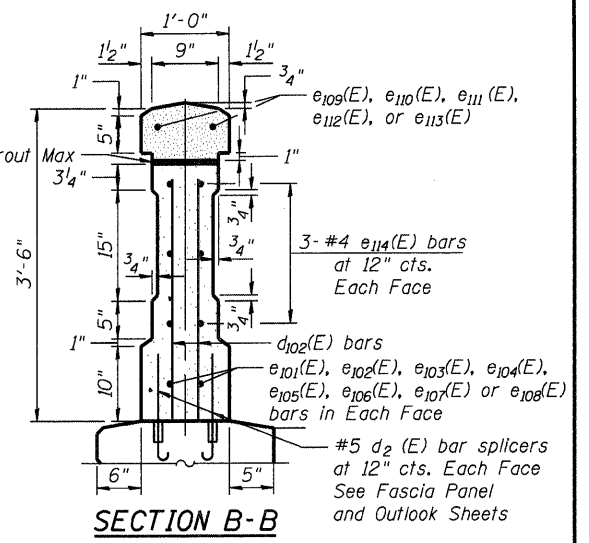
DETAIL B

MINIMUM BAR LAP

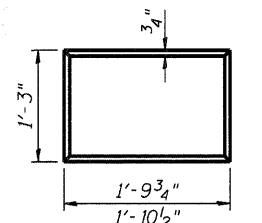
#4 bar = 2'-1"
#5 bar = 2'-7"



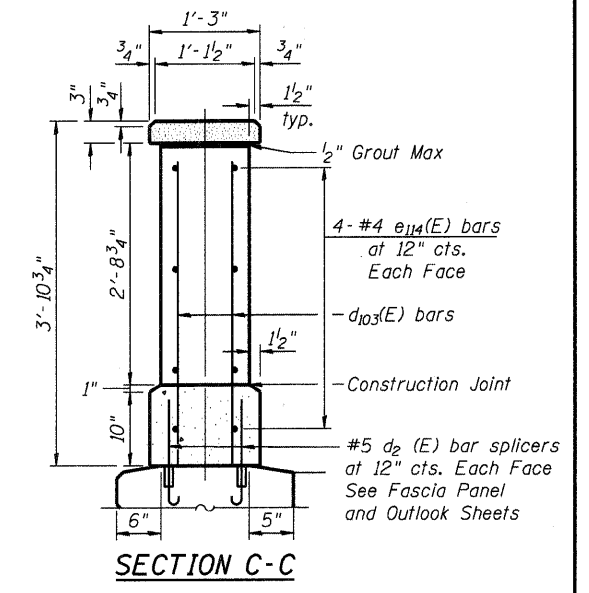
SECTION A-A



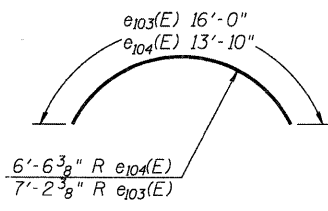
SECTION B-B



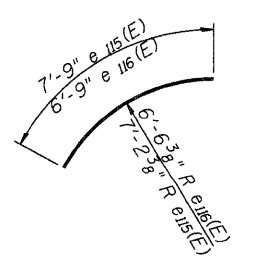
PRECAST CAP



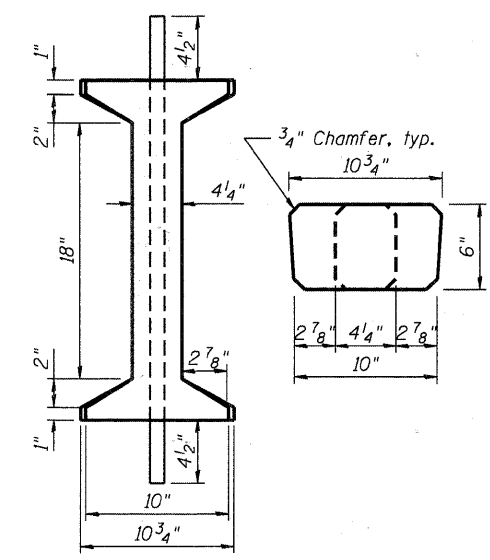
SECTION C-C



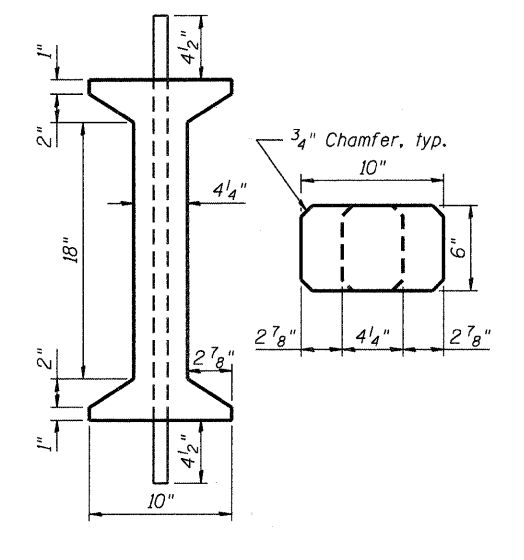
e103(E), or e104(E) Bars



h115(E), or h116(E) Bars



TRAPEZOIDAL BALUSTER



TYPICAL BALUSTER

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 7/26/2011 10:59:59 AM
PLOT DRIVER: hrpplot.plt
PEN TABLE: Struct 22x34.tbl

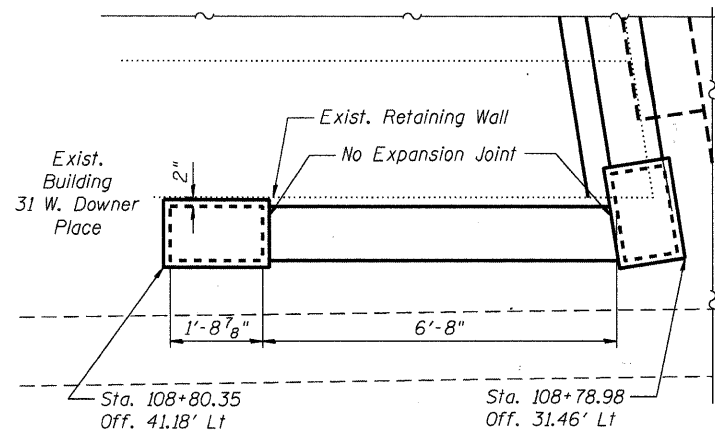


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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

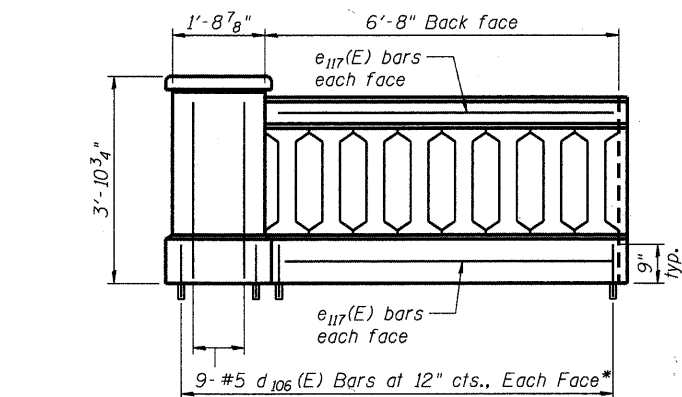
**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

**CONCRETE RAILING DETAILS
STRUCTURE NO. 045-6006**
SHEET NO. SW-14 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	66
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



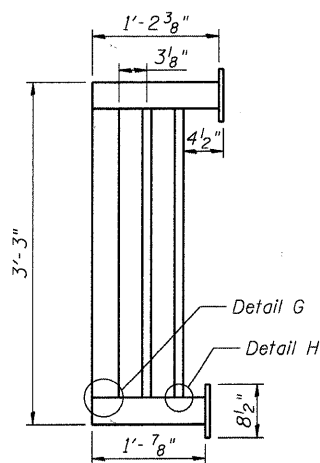
PLAN



ELEVATION

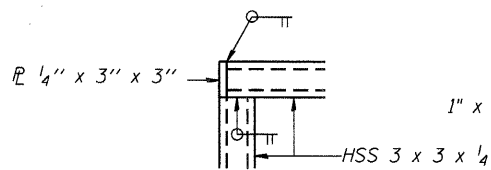
DETAIL A

2-#5 d103(E) bars at 12" cts. Each Face.

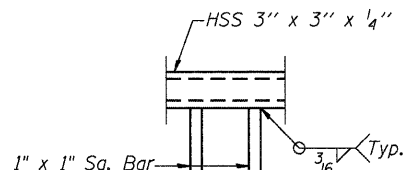


DETAIL E

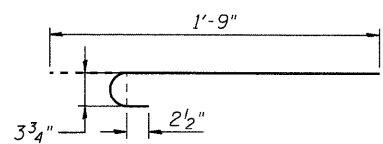
(Paid for as Pedestrian Rail (Special))



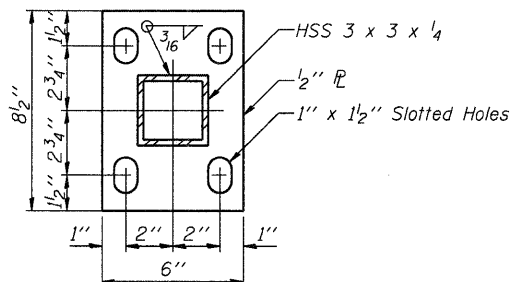
DETAIL G



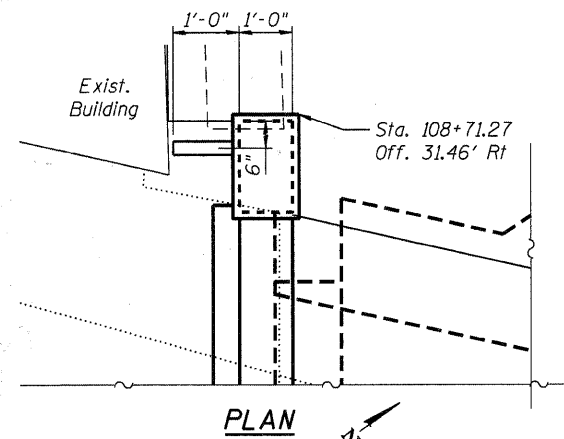
DETAIL H



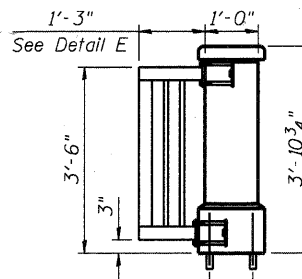
d105(E) Bar



BASE PL

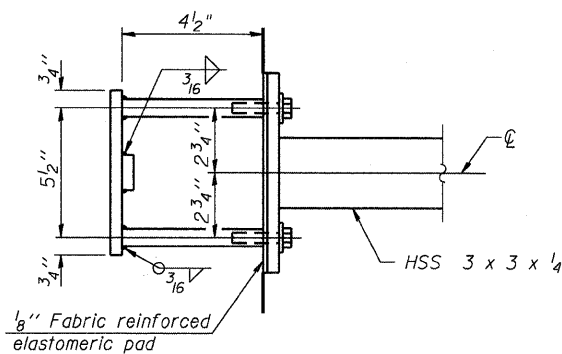


PLAN



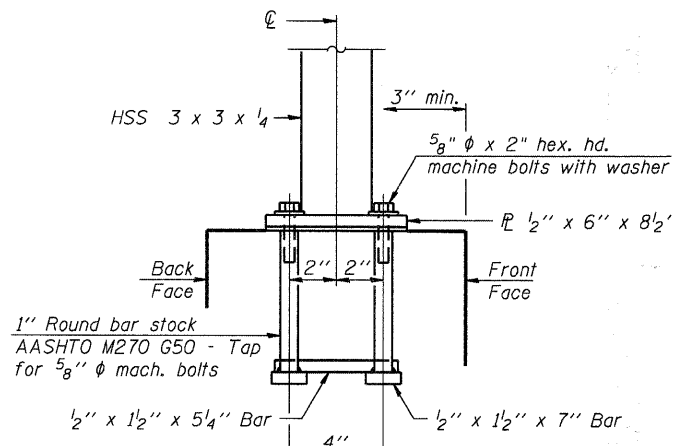
ELEVATION

DETAIL D



ELEVATION

ANCHORAGE DETAILS



PLAN

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
d102(E)	64	#5	2'- 8"	—
d103(E)	84	#5	3'- 5"	—
d104(E)	352	#5	2'- 9"	—
d105(E)	32	#5	1'- 9"	—
d106(E)	22	#5	1'- 6"	—
e101(E)	10	#4	20'- 4"	—
e102(E)	4	#4	17'- 0"	—
e103(E)	4	#4	16'- 0"	—
e104(E)	4	#4	13'- 10"	—
e105(E)	4	#4	21'- 2"	—
e106(E)	4	#4	22'- 10"	—
e107(E)	2	#4	17'- 10"	—
e108(E)	4	#4	5'- 6"	—
e109(E)	10	#4	9'- 5"	—
e110(E)	18	#4	10'- 3"	—
e111(E)	10	#4	8'- 7"	—
e112(E)	2	#4	7'- 9"	—
e113(E)	8	#4	11'- 1"	—
e114(E)	264	#4	1'- 2"	—
e115(E)	8	#4	7'- 9"	—
e116(E)	8	#4	6'- 9"	—
e117(E)	4	#4	6'- 4"	—
Reinforcement Bars, Epoxy Coated		Pound	2,610	
Concrete Bridge Railing (Special)		Foot	351	
Pedestrian Rail (Special)		Foot	1	

Reinforcement bars given for information only. Cost is included in Concrete Bridge Railing (Special).

* Epoxy grout d106(E) bars according to Section 584 of the Standard Specifications.

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harshbarger
 CLIENT: CITY OF AURORA
 FILE NAME: 045-6006-15-11.dwg
 PLOT DRIVER: pldrvr1
 PEN TABLE: Struct 22x34.tbl



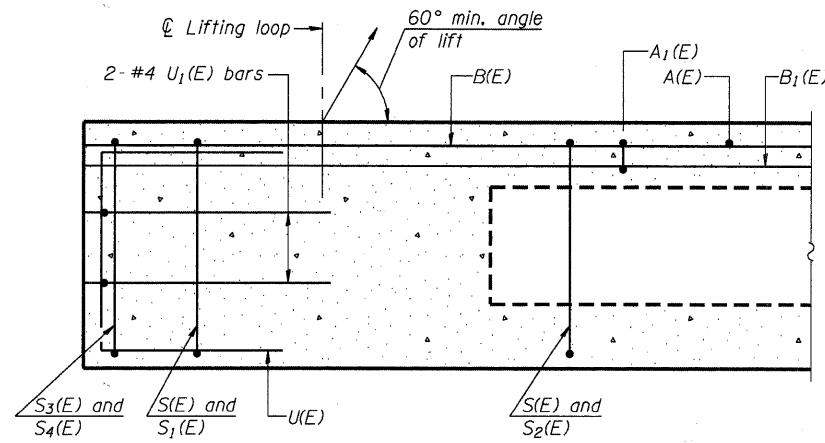
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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
 DOWNER PLACE OVER THE WEST BRANCH
 OF THE FOX RIVER

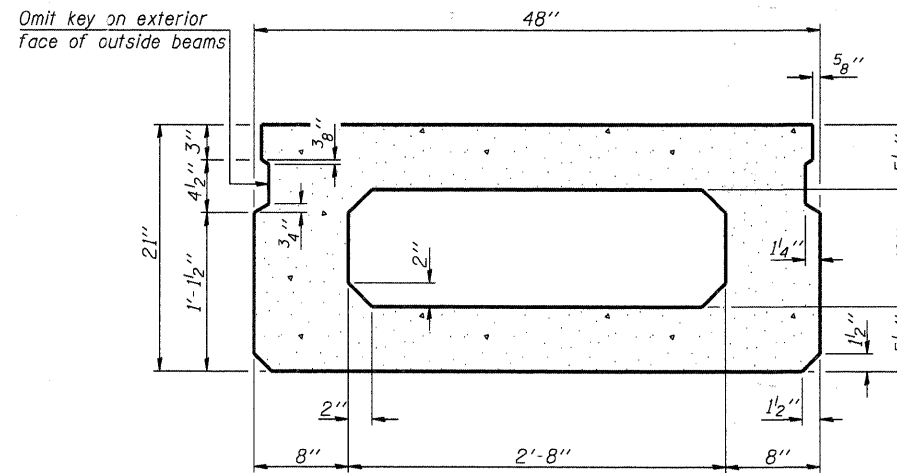
CONCRETE RAILING DETAILS
 STRUCTURE NO. 045-6006

SHEET NO. SW-15 OF SW-48 SHEETS

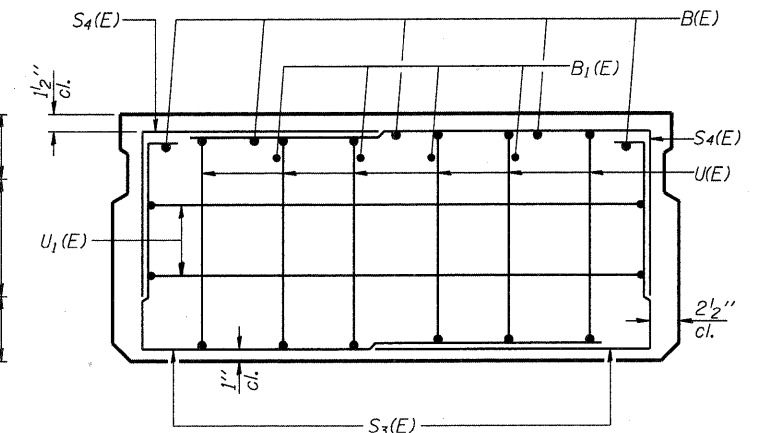
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	67
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				



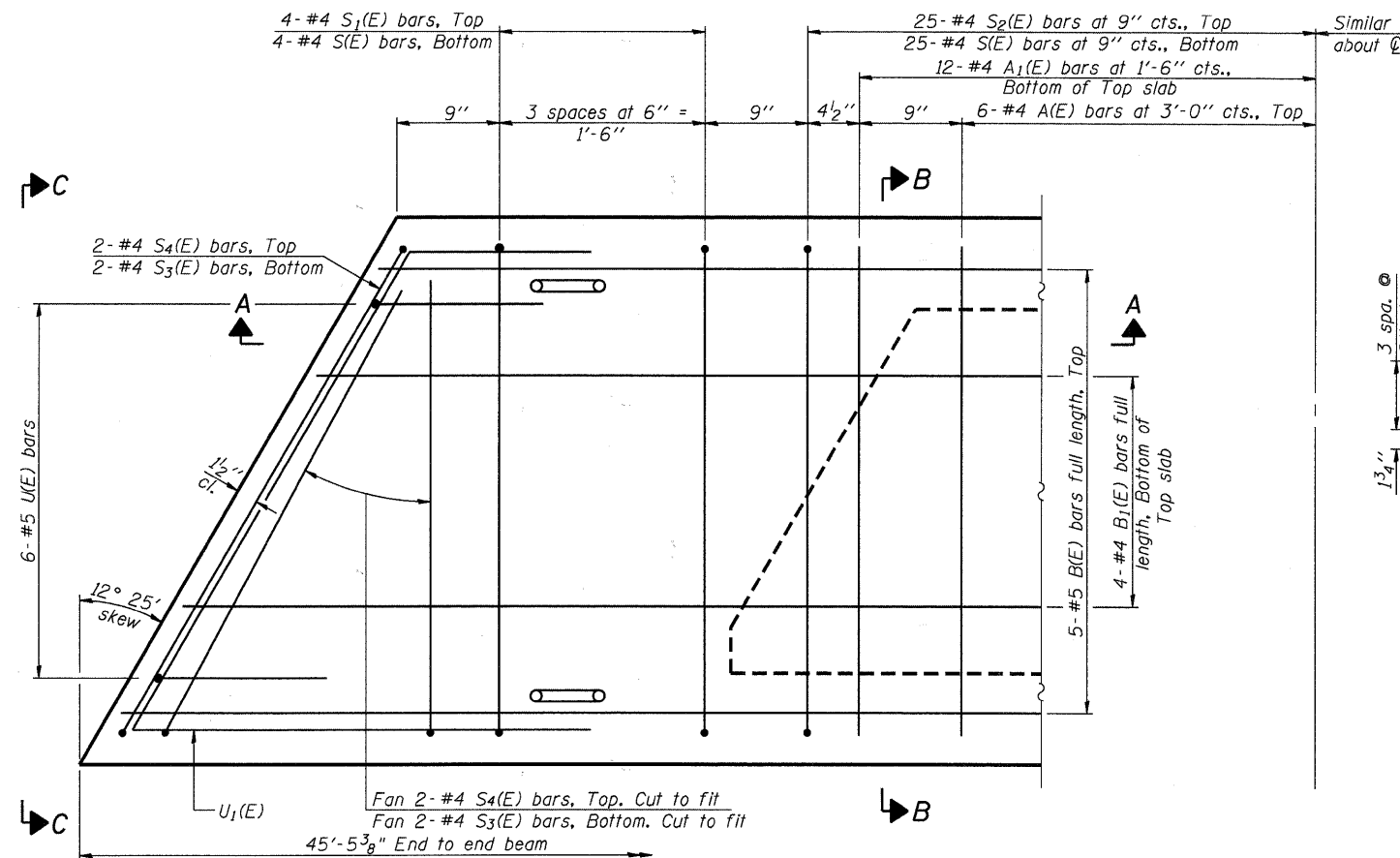
SECTION A-A



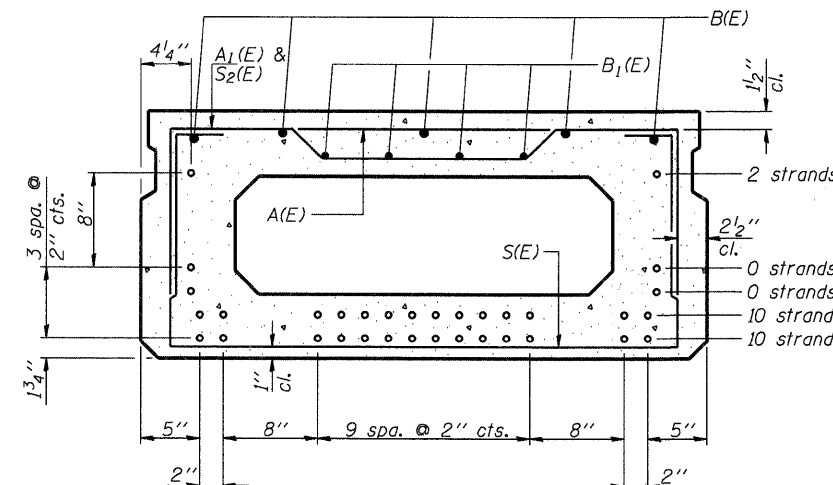
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	—
B(E)	5	#5	43'-0"	—
B1(E)	4	#4	43'-0"	—
S(E)	58	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	50	#4	6'-2"	U
S3(E)	4	#4	4'-9"	U
S4(E)	4	#4	4'-0"	U
U(E)	12	#5	4'-0"	U
U1(E)	4	#4	7'-0"	U

Note: See next sheet for additional details and Bill of Material.

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

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

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
FILE NAME: 062024-PP-001.dgn
PLOT DRIVER: pdfcut
PEN TABLE: Struct 22x34.tbl

PD-2148-L

7-1-10

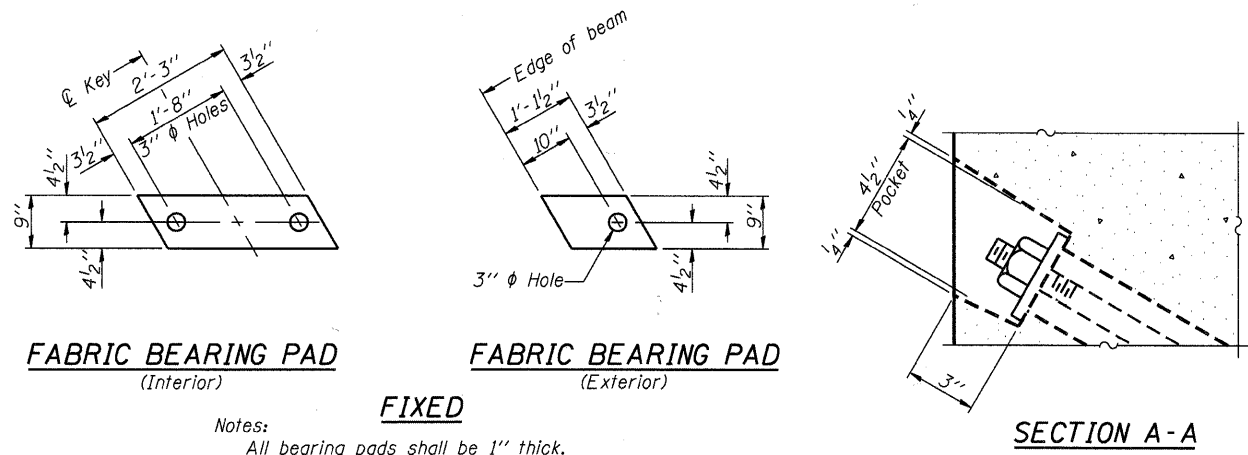
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PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

21"X48" PPC DECK BEAM
STRUCTURE NO. 045-6006

SHEET NO. SW-16 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	68
			CONTRACT NO. 63620	
[ILLINOIS] FED. AID PROJECT				



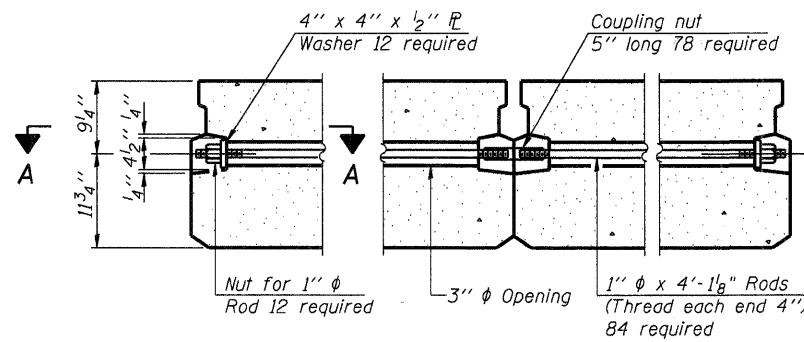
FABRIC BEARING PAD
(Interior)

FABRIC BEARING PAD
(Exterior)

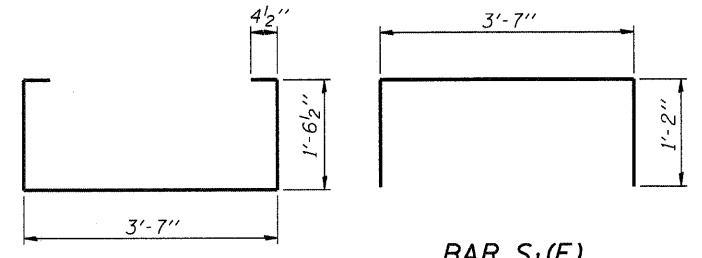
SECTION A-A

Notes:

All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

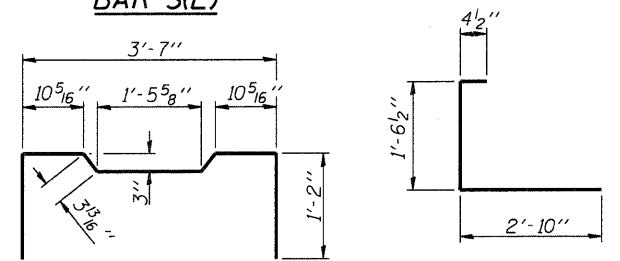


TYPICAL TRANSVERSE TIE ASSEMBLY



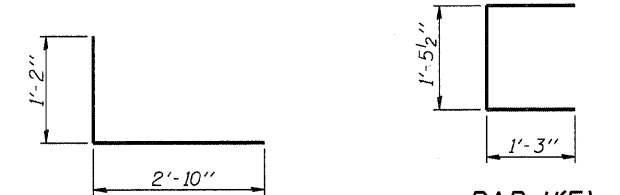
BAR S1(E)

BAR S2(E)



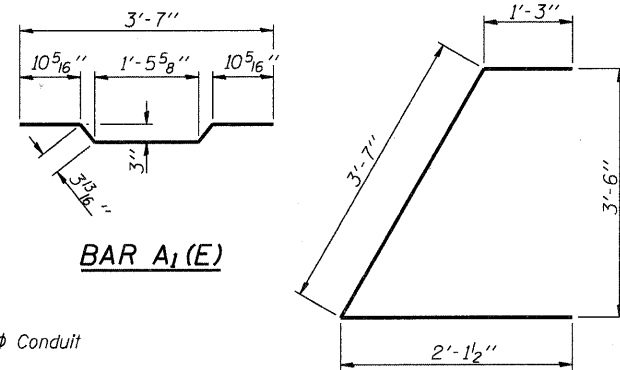
BAR S3(E)

BAR S4(E)



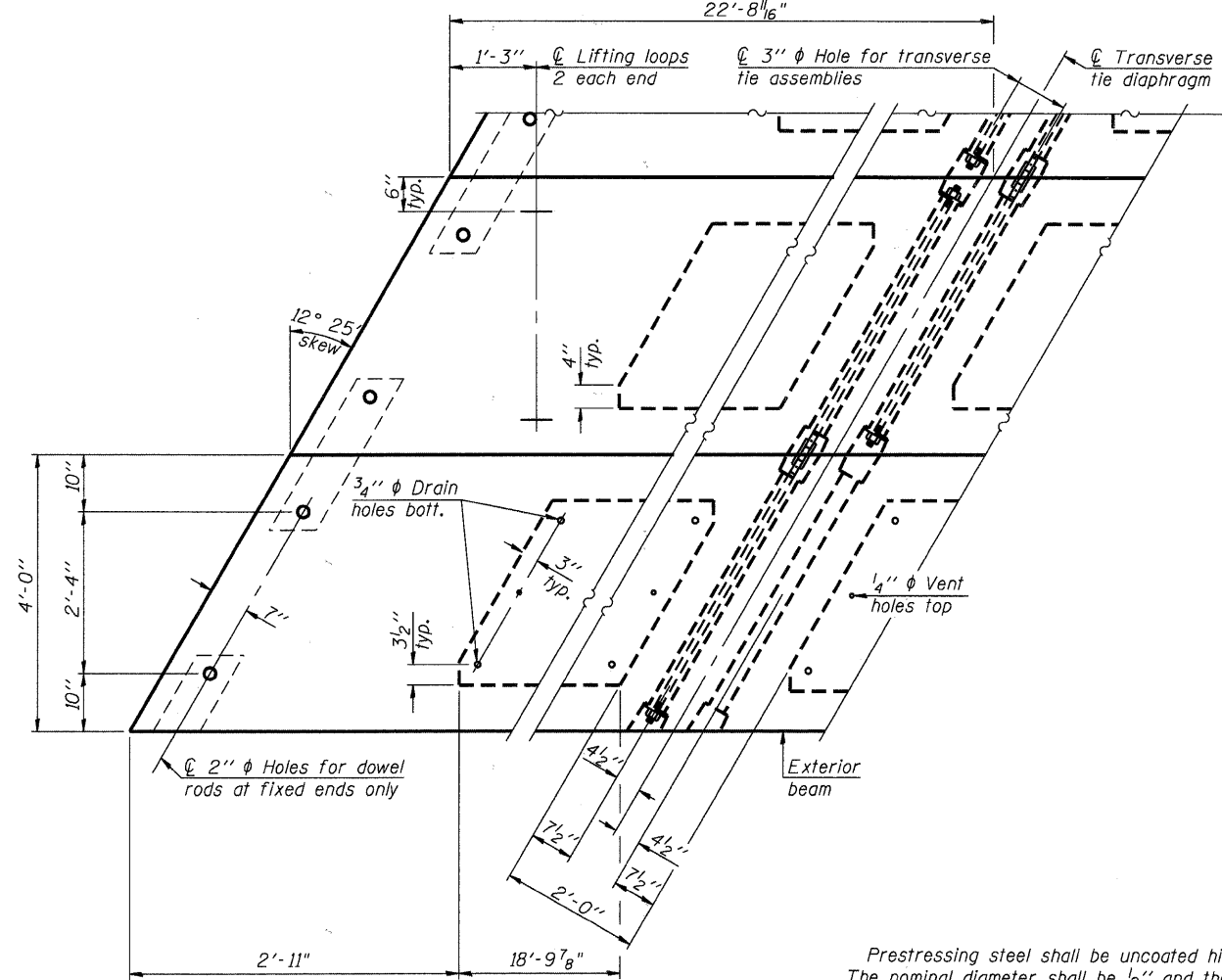
BAR U1(E)

BAR U2(E)



BAR A1(E)

BAR U1(E)

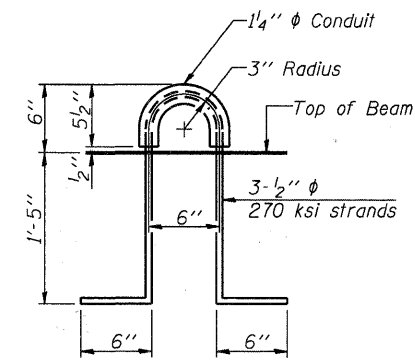


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.
See pier sheets for retainer angle details and anchor bolt locations.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	7,636
---	---------	-------

COMPANY NAME: HRGREEN
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 7/26/2011 11:00:22 AM
FILE NAME: 86090472-W-Pre02.dgn
PLOT DRIVER: pdfcut
PLOT TABLE: Structure 22x34.tbl

PD-2148-LD

7-1-10



USER NAME = whood	DESIGNED - JPG	REVISED -
	CHECKED - RGD	REVISED -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISED -
PLOT DATE = 7/26/2011	CHECKED -	REVISED -

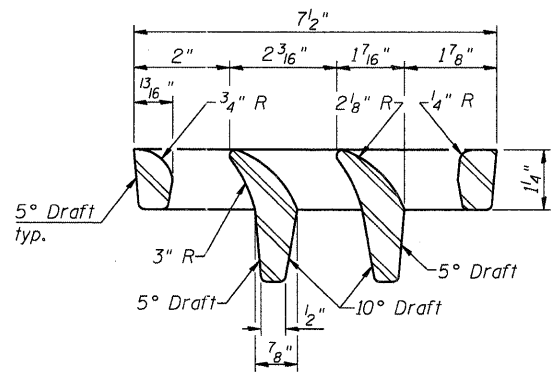
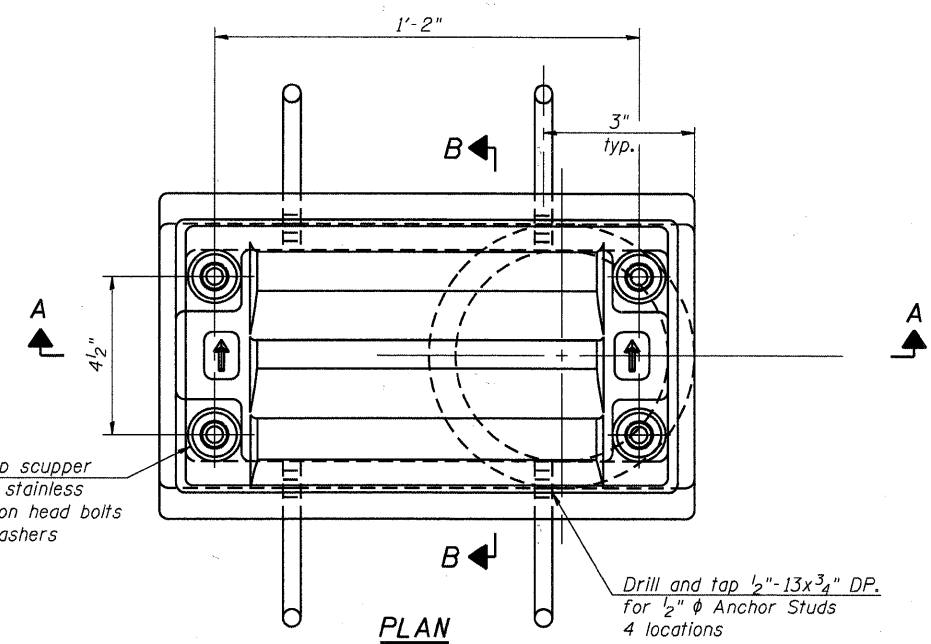
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

21"X48" PPC DECK BEAM DETAILS
STRUCTURE NO. 045-6006

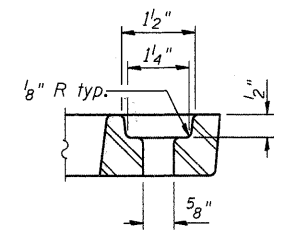
SHEET NO. SW-17 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	69
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

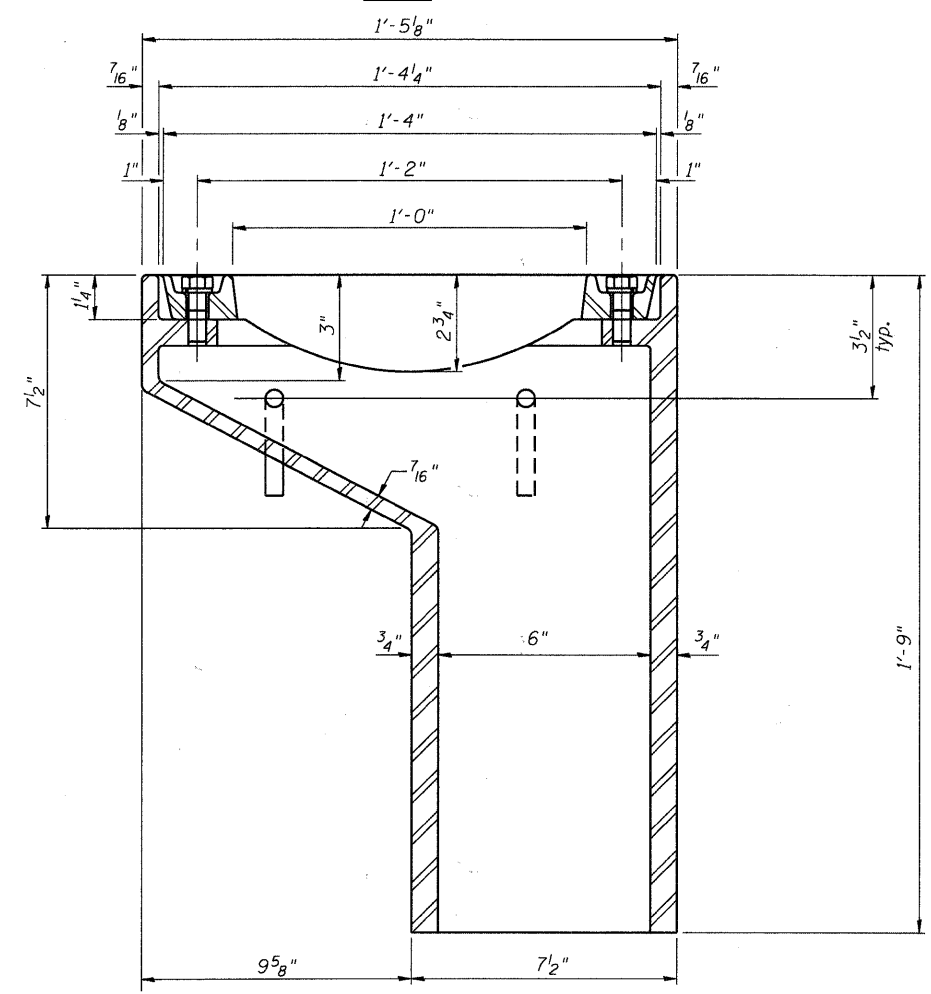
Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 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.



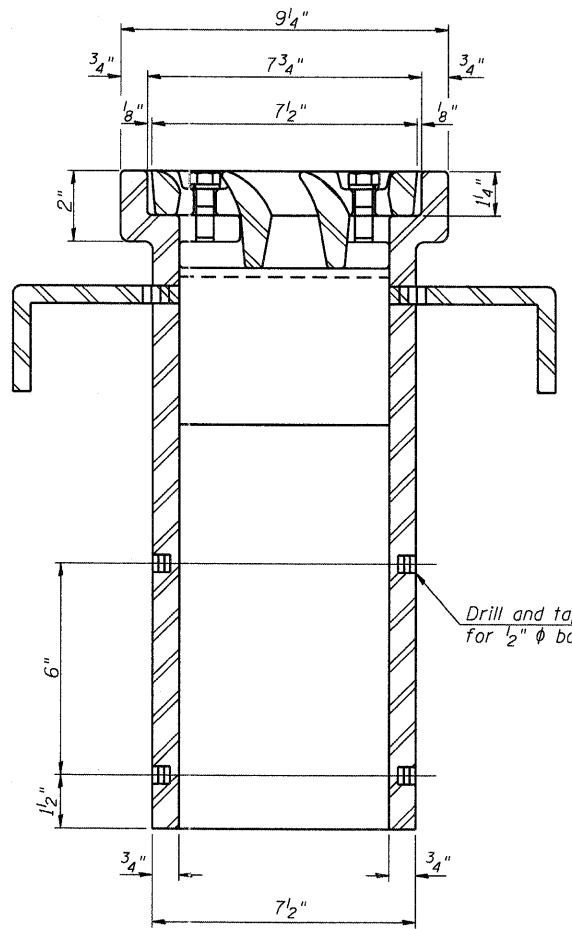
VANE GRATE DETAIL



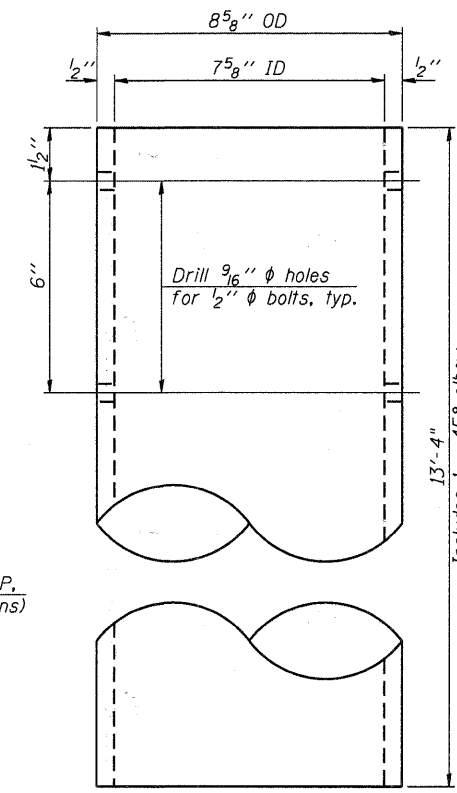
BOLT HOLE DETAIL



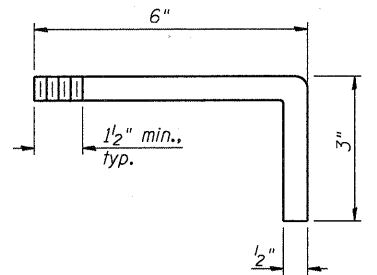
SECTION A-A
 See sheet SW-10 for scupper location relative to curb.



SECTION B-B



DOWNSPOUT



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	1

HRGreen
 1844 S. W. 10th St.
 Fort Lauderdale, FL 33304
 Phone: 954-577-3333
 Fax: 954-577-3334

DS-11

7-1-10



USER NAME = whood	DESIGNED - MGH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
 DOWNER PLACE OVER THE WEST BRANCH
 OF THE FOX RIVER

DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 045-6006
 SHEET NO. SW-18 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	70
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES - PRECAST CONCRETE

Materials:

1. All precast modules shall be manufactured with class PC concrete according to Section 504, Article 1042.02, Article 1042.03 and the following requirements:
 - a. Lightweight coarse aggregates according to ASTM C330 shall be used such that the maximum cured density shall be 120 lbs./cu. ft. (ASTM C567).
 - b. The minimum 28-day compressive strength shall be 5,000 psi.
2. Reinforcing steel shall be according to Article 1006.10(a)(2). Welded steel wire fabric shall be according to Article 1006.10(b)(1).
3. Steel inserts shall be galvanized according to AASHTO M 232 or AASHTO M11 as applicable and have the following safe working load capacities:
 - a. F41 Wingwall Anchor, 1" diameter x 8":
 - i. Tension: 10,711 lbs.
 - ii. Shear: 5,400 lbs.
 - b. F-42 Loop Ferrule Insert, 3/4" diameter:
 - i. Tension: 2,200 lbs.
 - ii. Shear: 2,200 lbs.
 - c. F-57 Expanded Coil Ferrule Insert, 3/4" diameter:
 - i. Tension: 4,250 lbs.
 - ii. Shear: 2,450 lbs.
 - d. F-62 Flared Thin-Slab Ferrule Insert, 3/4" diameter bolt x 3 5/8" high:
 - i. Tension: 3,300 lbs.
 - ii. Shear: 3,300 lbs.
 - e. D-108-A Headed Dowel Bar Insert, 3/4" diameter to #5 bar x 9" long:
 - i. Tension: 6,975 lbs.
 - ii. Shear: 4,440 lbs.

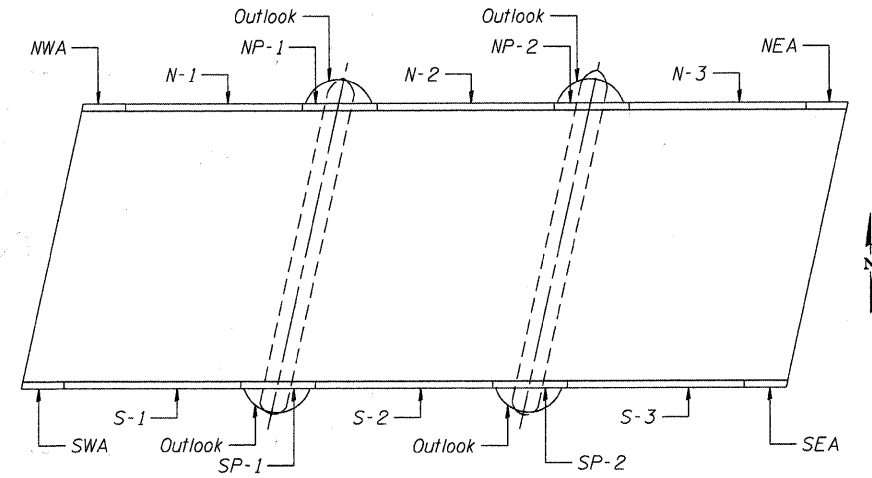
Note that these items are manufactured by Dayton/Superior. Alternates shall be submitted to the Engineer for review and approval and must meet the capacities shown above.

4. Bearing pads, where specified, between precast concrete elements shall be plain, unreinforced neoprene with a minimum thickness of 1/2" and a minimum durometer hardness of 50.
5. All precast fascia panels and outlooks shall be sealed with Canyon Tone Clear sealer by United Coatings or an approved equal. See specification for more information.
6. Steel plates shall conform to AASHTO M270M Grade 50. All steel plates shall be hot dip galvanized in accordance with AASHTO M-111 and ASTM A-385. Plate washers shall be 5"x5"x 1/2" Thk. with 7/8" diameter holes centered on the plate.

7. Non-shrink grout shall be according to ASTM C-1107 and have a minimum compressive strength of 5,000 psi.
8. All threaded rods, nuts and connection bolts shall be Type 304 Stainless Steel.

Fabrication:

1. All reinforcement shall have a minimum of 1 1/2" of clear cover.
2. Formliners shall have a maximum relief of 1/8" and be from or equivalent to the following manufacturers and patterns:
 - a. Custom Rock pattern T315 (Heavy Sandblast)
 - b. Fitzgerald pattern 1699i (Medium Sandblast)
 - c. Greenstreak pattern 348 (Medium Sandblast)
3. Prepare all precast surfaces in accordance with sealer manufacturer's recommendations. At a minimum, all surfaces shall receive a brush-blast cleaning and water rinse.
4. The reinforcement as shown is for in-place structural adequacy only. The precaster shall be responsible for any other reinforcement required for shipping and handling as well as inserts required for lifting.



PRECAST PIECE LOCATION PLAN

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 8/20/2011
 FILE NAME: 07-00264-00-BR
 PLOT DRIVER: pldrvr
 PEN TABLE: Struct_22x34.tbl



USER NAME = whood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

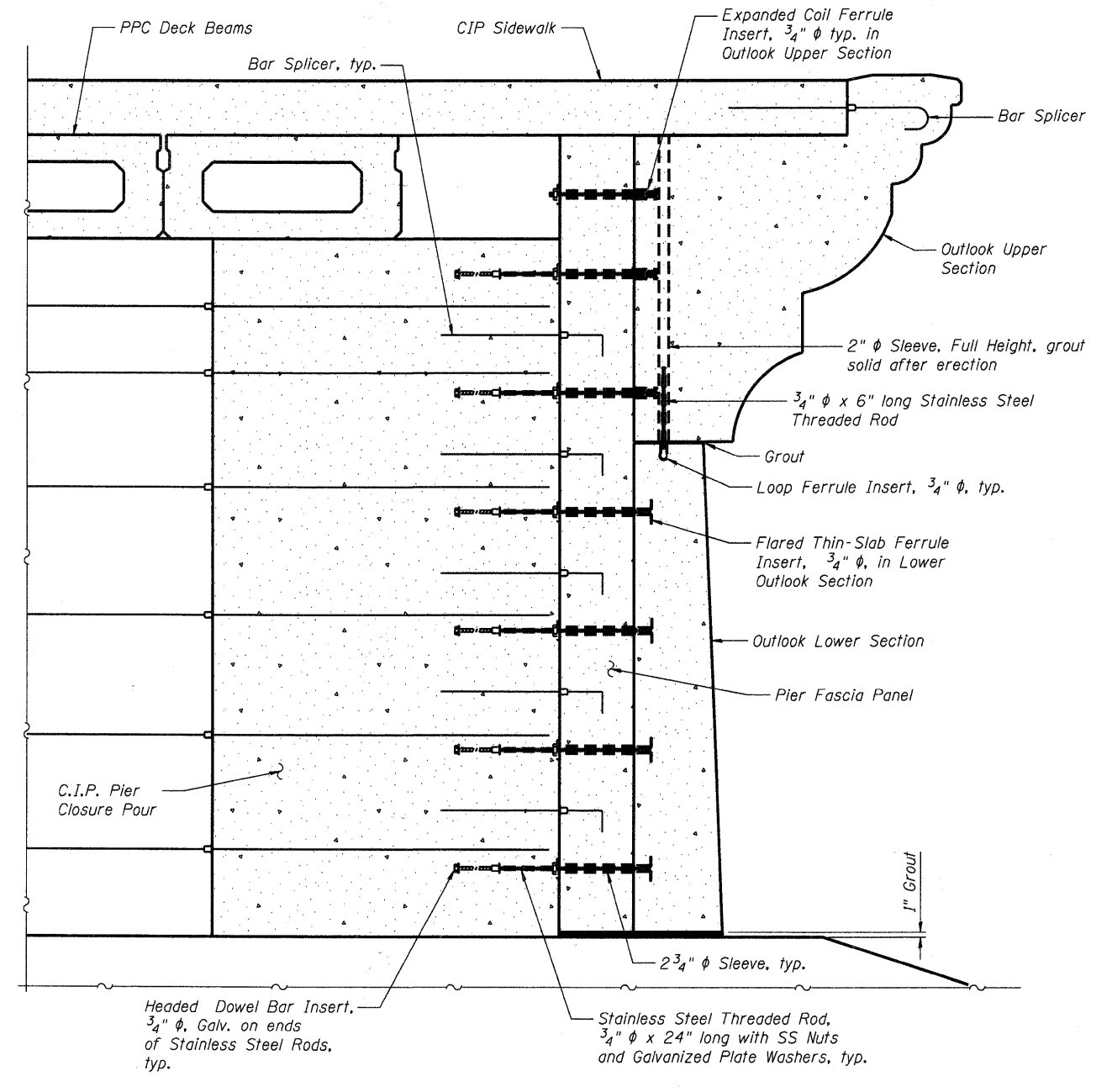
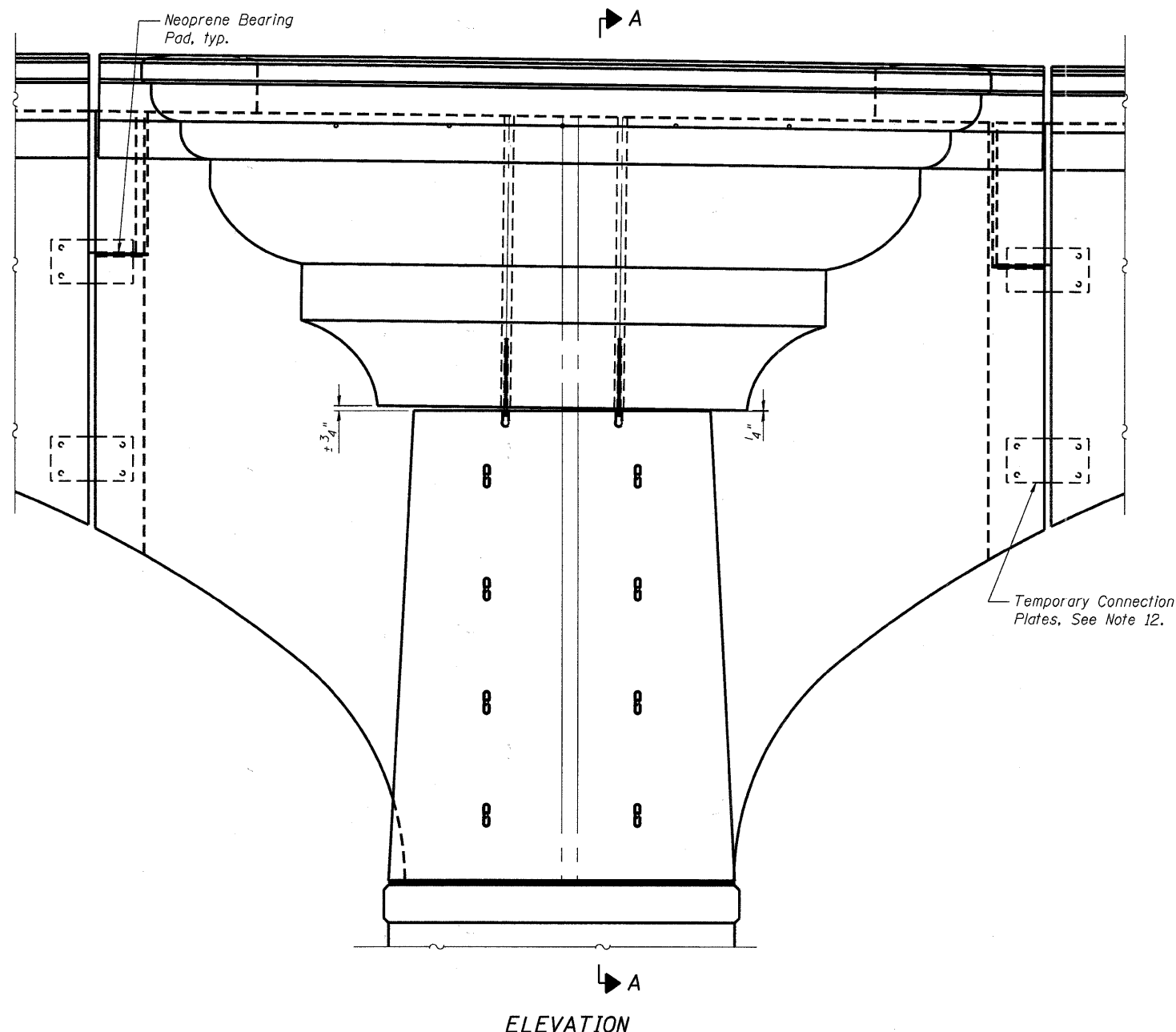
**PRECAST CONCRETE FASCIA PANEL - NOTES
STRUCTURE NO. 045-6006**

SHEET NO. SW-19 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	71
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

SUGGESTED PRECAST CONCRETE ERECTION SEQUENCE

1. The Contractor shall verify dimensions and coordinate with Fabricator.
2. After the center sections of the cast-in-place concrete piers and abutments have been cast and the center twelve deck beams have been set, erect and temporarily support the pier and abutment fascia panels (NWA, SWA, NEA, SEA, SP-1, SP-2, NP-1 and NP-2). These panels must be shimmed and set in a nominal 1" thick grout bed.
3. Erect the lower sections of the outlooks by shimming and setting them into a 1" nominal grout bed and installing stainless steel threaded rods through the fascia panels into the ferrule inserts in the interior faces of the lower outlook sections. Complete the connections with plate washers and nuts. Note: This step may be omitted if the lower outlook section is monolithic with the pier fascia panels.
4. Install stainless steel threaded rods into ferrule inserts in the tops of the lower outlook sections.
5. Erect the upper section of the outlooks by placing them over the rods in the top of the lower outlook section. Shim the east side of the upper outlook section with a 1/4J nominal shim. Using the 1/4J shim height as a starting point, rotate the upper outlook section to match the profile of the roadway (approximately 3/4J at the west edge of the lower outlook section). Grout the threaded rods in the sleeves from the top of the upper outlook section and grout the space between the upper and lower outlook sections.
6. Install stainless steel threaded rods through the fascia panels and into the upper outlook sections. Complete the connections with plate washers and nuts.
7. Install headed dowel bar inserts onto the ends of the threaded rods that pass through the fascia panels and into the pier closure pour concrete.
8. Install CIP concrete section of bar splicers onto the interior face of the fascia panels and the construction joint faces of the piers.
9. Install balance of pier reinforcement and pier formwork.
10. Cast closure pour concrete for piers.
11. Erect exterior deck beams.
12. Construct concrete wearing surface.
13. Erect center fascia panels (N-1 thru N-3 and S-1 thru S-3) onto bearing pads and pockets of supporting fascia panels. Install temporary connection plates between center fascia panels and supporting fascia panels using bolts threaded into wingwall inserts. These connections must be completed before removing fascia panel from crane hook.
14. Install formwork between fascia panels and exterior deck beams.
15. Install CIP concrete section of sidewalk bar splicers into spanning fascia panels and outlook upper sections.
16. Construct sidewalk on bridge.
17. See sheet SW-2 for the remainder of suggested construction sequence items.



COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE: 08/24/11
 FILE NAME: 06090472-PP-00103.dgn
 PLOT DRIVER: pefplot
 PEN TABLE: Struct_22x34.tbl

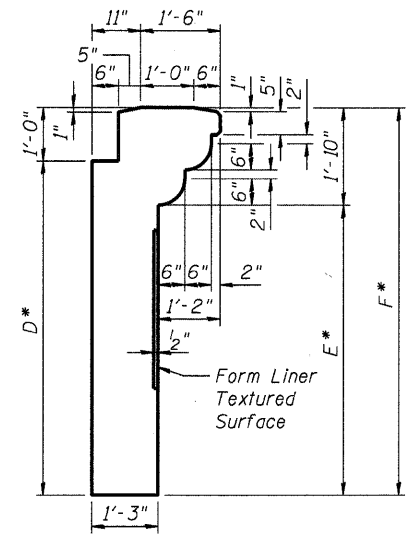
HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = whood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

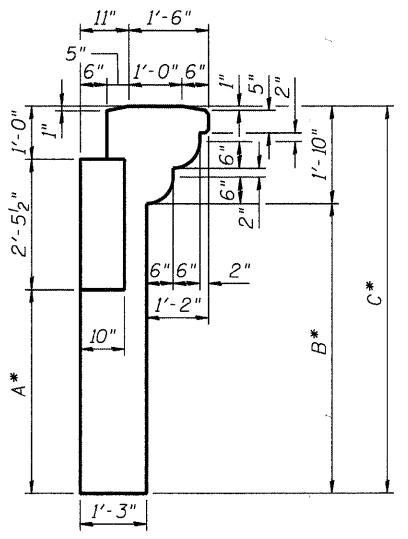
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

PRECAST CONCRETE FASCIA PANEL - ASSEMBLY
STRUCTURE NO. 045-6006
 SHEET NO. SW-20 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	72
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	

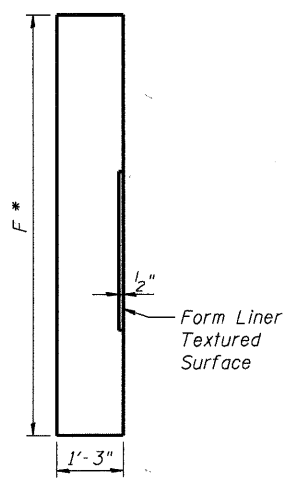


SECTION A-A

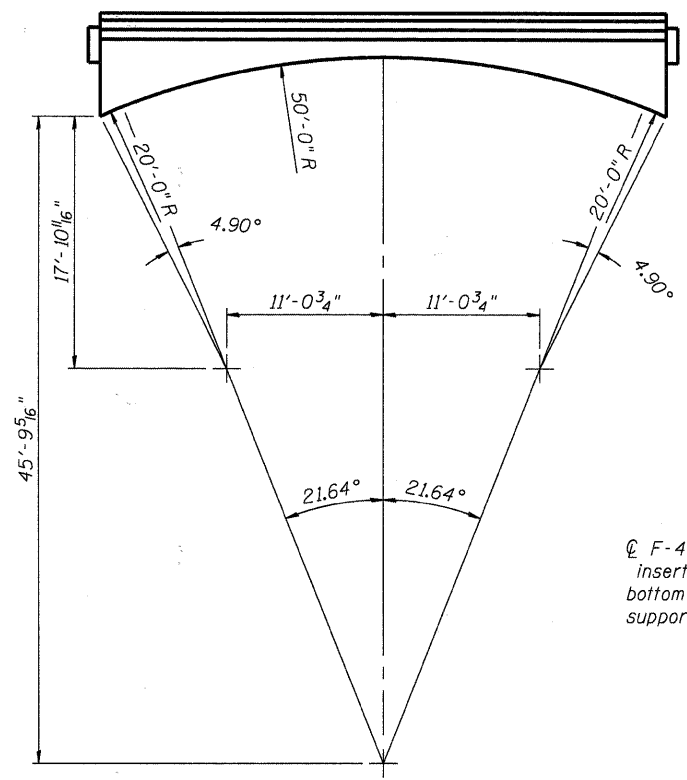


SECTION B-B

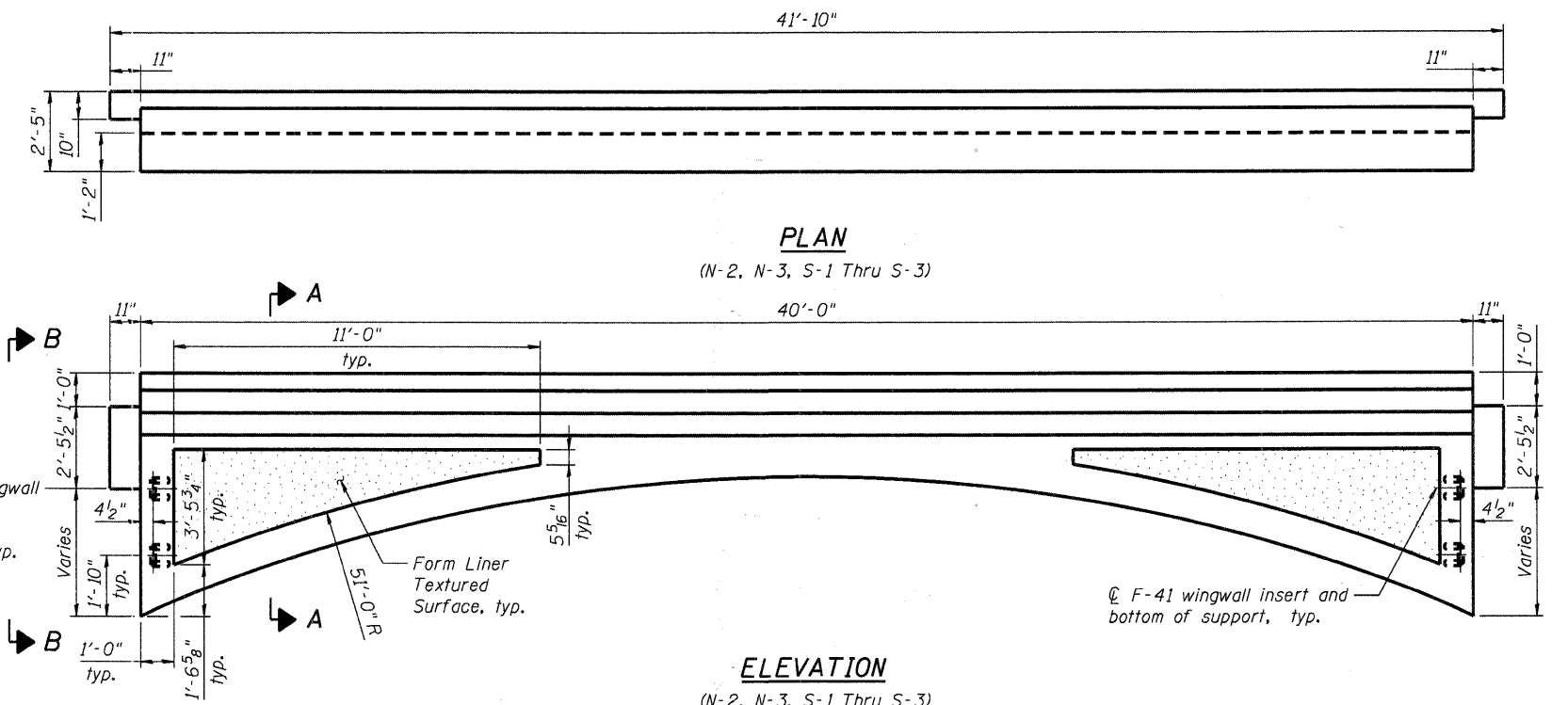
*See section dimensions Table on Sht. SW-23.



SECTION C-C



ARCH LAYOUT

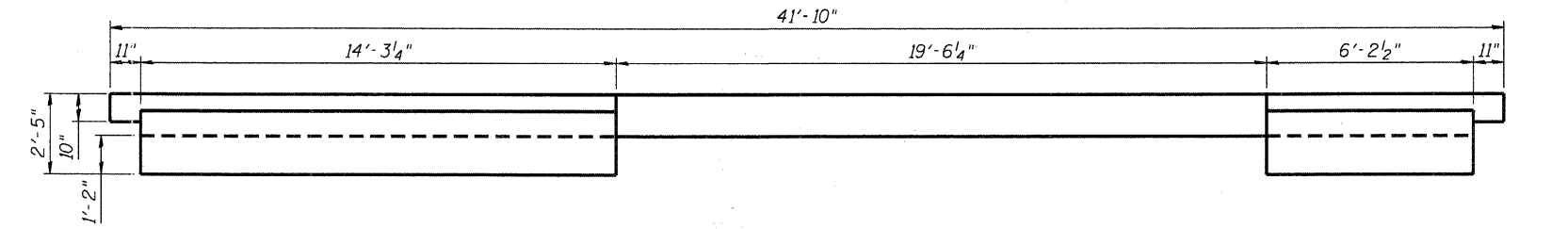


PLAN

(N-2, N-3, S-1 Thru S-3)

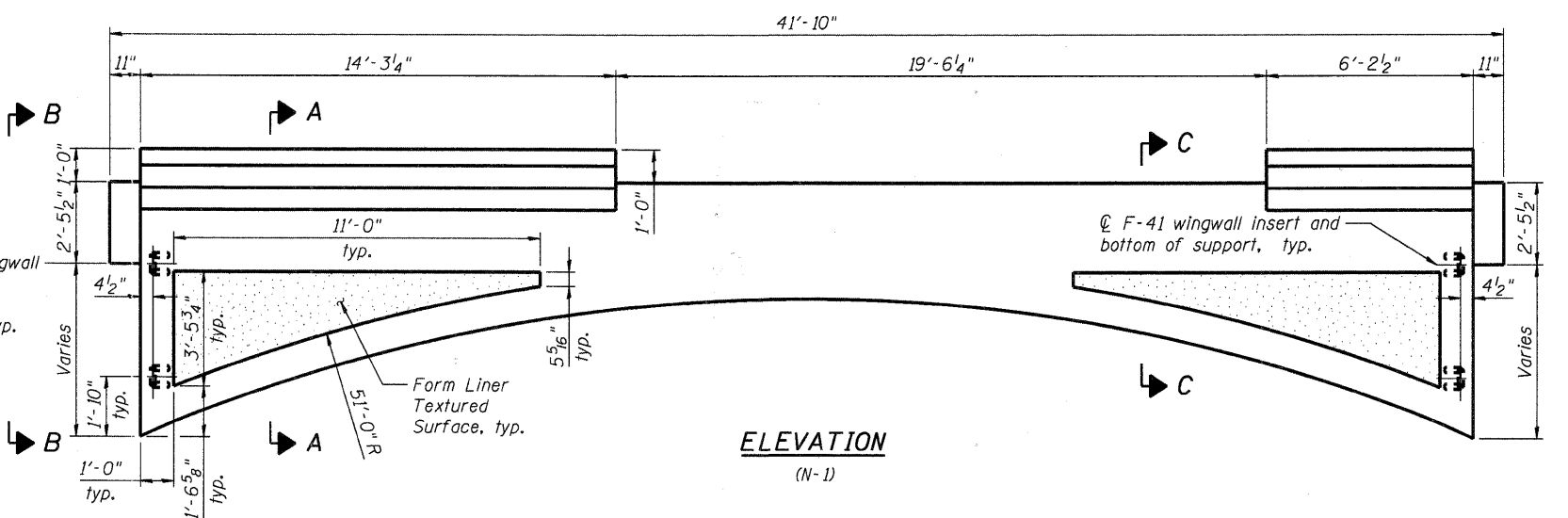
ELEVATION

(N-2, N-3, S-1 Thru S-3)



PLAN

(N-1)



ELEVATION

(N-1)

HRGreen
 COMPANY NAME: HRGreen
 PROJECT CONTACT: Michele G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:06:40 AM
 PLOT ORIGIN: 0,0
 PLOT ORIGIN: 0,0
 PEN TABLE: Struct_22x34.tbl

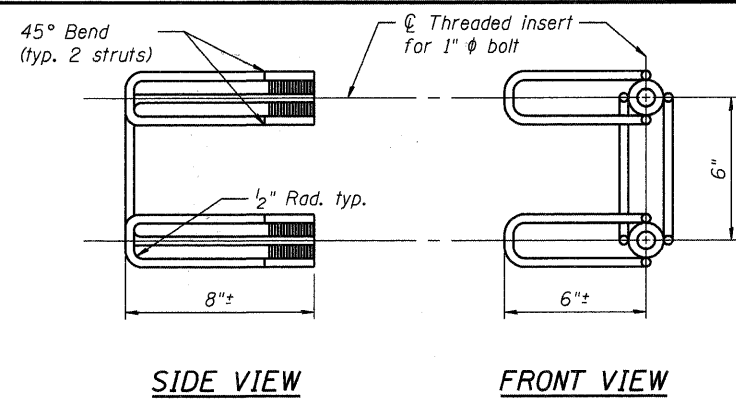
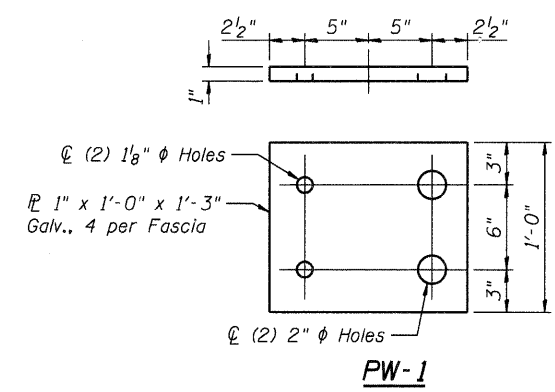
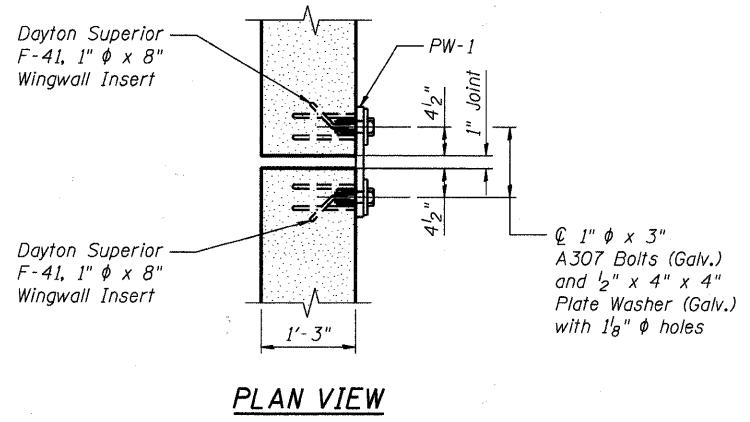
HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mhood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

PRECAST CONCRETE FASCIA PANEL - SPANDREL
STRUCTURE NO. 045-6006
 SHEET NO. SW-21 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	73
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



DAYTON SUPERIOR F-41, 1" ϕ x 8" WINGWALL INSERT

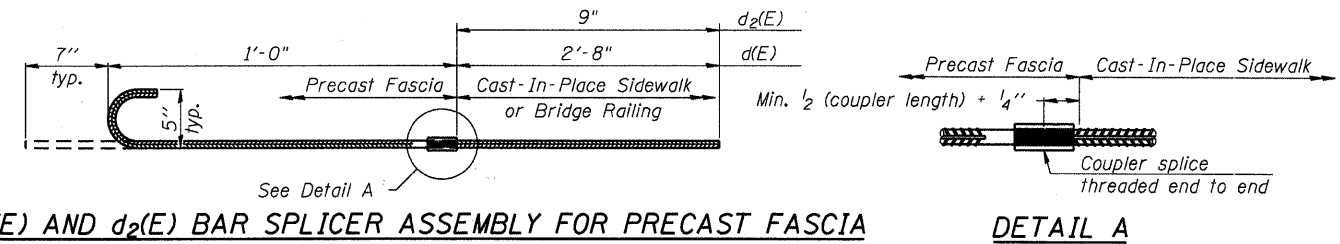
SECTION DIMENSION TABLE

	Left Side			Center Span			Right Side		
	A	B	C	D	E	F	A	B	C
S-1	5'-7 3/4"	7'-3 1/4"	9'-1 1/4"	3'-8"	2'-10"	4'-8"	5'-2 5/8"	6'-10 1/8"	8'-8 1/8"
S-2	5'-0 1/2"	6'-8"	8'-6"	3'-0 3/4"	2'-2 3/4"	4'-0 3/4"	4'-7 3/8"	6'-2 7/8"	8'-0 7/8"
S-3	4'-5 1/4"	6'-0 3/4"	7'-10 3/4"	2'-5 1/2"	1'-7 1/2"	3'-5 1/2"	4'-0 1/8"	5'-7 5/8"	7'-5 5/8"
N-1	5'-0 7/8"	6'-8 3/8"	8'-6 3/8"	N/A	N/A	3'-6 1/4"	4'-6"	6'-1 1/2"	7'-11 1/2"
N-2	4'-5 5/8"	6'-1 1/8"	7'-11 1/8"	2'-11"	2'-1"	3'-11"	4'-10 3/4"	6'-6 1/4"	8'-4 1/4"
N-3	3'-10 1/4"	5'-5 7/8"	7'-3 3/4"	2'-3 3/4"	1'-5 3/4"	3'-3 3/4"	4'-3 1/2"	5'-11"	7'-9"

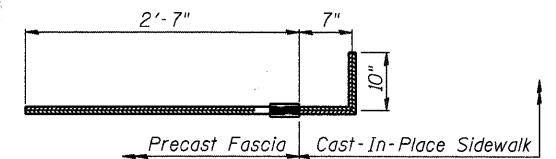
U BAR DIMENSION TABLE

G	u(E)	u ₁ (E)	u ₂ (E)	u ₃ (E)	u ₄ (E)	u ₅ (E)	u ₆ (E)	u ₇ (E)	u ₈ (E)	u ₉ (E)	u ₁₀ (E)	u ₁₁ (E)
	2'-0"	2'-2"	2'-4"	2'-8"	2'-10"	3'-1"	3'-2"	3'-3"	3'-8"	4'-5"	4'-9"	5'-1"

H	u ₁₂ (E)	u ₁₃ (E)	u ₁₄ (E)	u ₁₅ (E)	u ₁₆ (E)	u ₁₇ (E)	u ₁₈ (E)	u ₁₉ (E)	u ₂₀ (E)	u ₂₁ (E)	u ₂₂ (E)	u ₂₃ (E)
	7'-5"	7'-0"	6'-10"	6'-5"	6'-3"	5'-10"	6'-10"	7'-3"	6'-3"	6'-8"	5'-8"	6'-1"

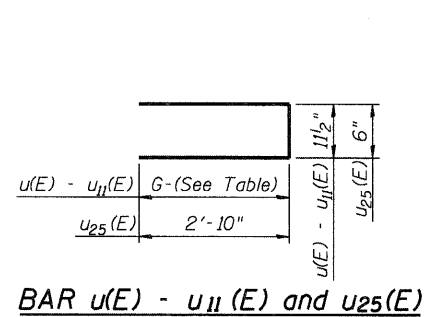


No. d(E) required = 220
No. d₂(E) required = 440

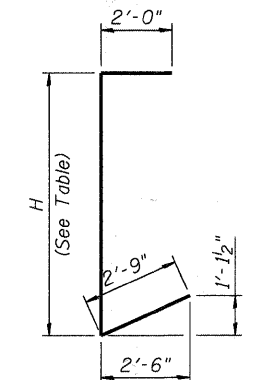


No. required = 20

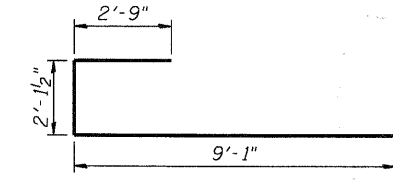
Note:
1. Precast concrete supplier is responsible for supplying complete bar splicer assemblies.



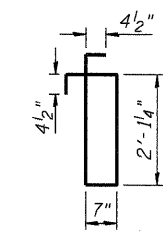
BAR u(E) - u₁₁(E) and u₂₅(E)



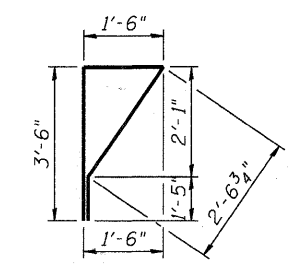
BAR u₁₂(E) - u₂₃(E)



BAR u₂₄(E)



BAR s(E)



BAR s₁(E)

SPANDREL PANEL REINFORCEMENT

Bar	No.	Size	Length	Shape
s(E)	24	#4	6'-1 1/2"	
s ₁ (E)	220	#4	9'-0"	
p(E)	24	#7	20'-5"	
p ₁ (E)	24	#7	19'-9"	
h(E)	92	#5	39'-6"	
h ₁ (E)	4	#5	13'-9"	
h ₂ (E)	4	#5	5'-8"	
u(E)	8	#4	5'-0"	
u ₁ (E)	14	#4	5'-4"	
u ₂ (E)	16	#4	5'-8"	
u ₃ (E)	34	#4	6'-4"	
u ₄ (E)	26	#4	6'-8"	
u ₅ (E)	32	#4	7'-2"	
u ₆ (E)	8	#4	7'-4"	
u ₇ (E)	24	#4	7'-6"	
u ₈ (E)	64	#4	8'-4"	
u ₉ (E)	36	#4	9'-10"	
u ₁₀ (E)	40	#4	10'-6"	
u ₁₁ (E)	46	#4	11'-2"	
u ₁₂ (E)	4	#5	12'-2"	
u ₁₃ (E)	4	#5	11'-9"	
u ₁₄ (E)	4	#5	11'-7"	
u ₁₅ (E)	4	#5	11'-2"	
u ₁₆ (E)	4	#5	11'-0"	
u ₁₇ (E)	4	#5	10'-7"	
u ₁₈ (E)	4	#5	11'-7"	
u ₁₉ (E)	4	#5	12'-0"	
u ₂₀ (E)	4	#5	11'-0"	
u ₂₁ (E)	4	#5	11'-5"	
u ₂₂ (E)	4	#5	10'-5"	
u ₂₃ (E)	4	#5	10'-10"	
u ₂₄ (E)	24	#6	13'-11 1/2"	
u ₂₅ (E)	24	#4	6'-2"	

Approximate quantities for six (6) Spandrel Panels

HRGreen
1100 N. 1st St.
Aurora, IL 60007
708.471.1000
www.hrgreen.com

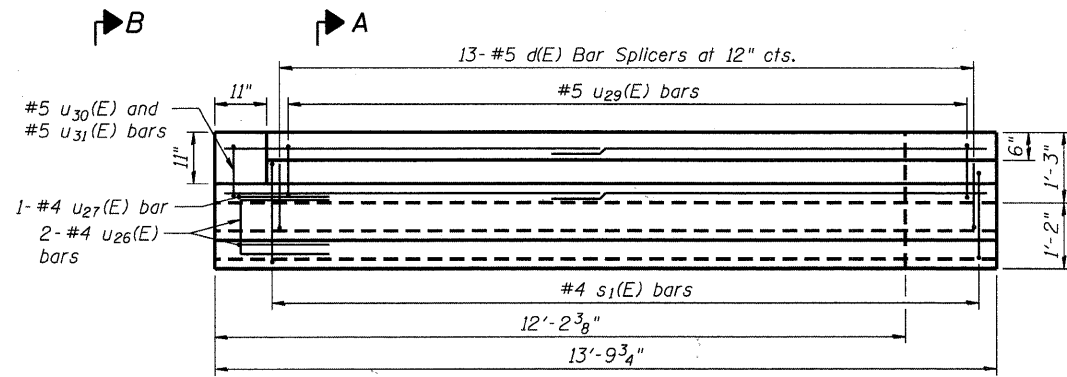


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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

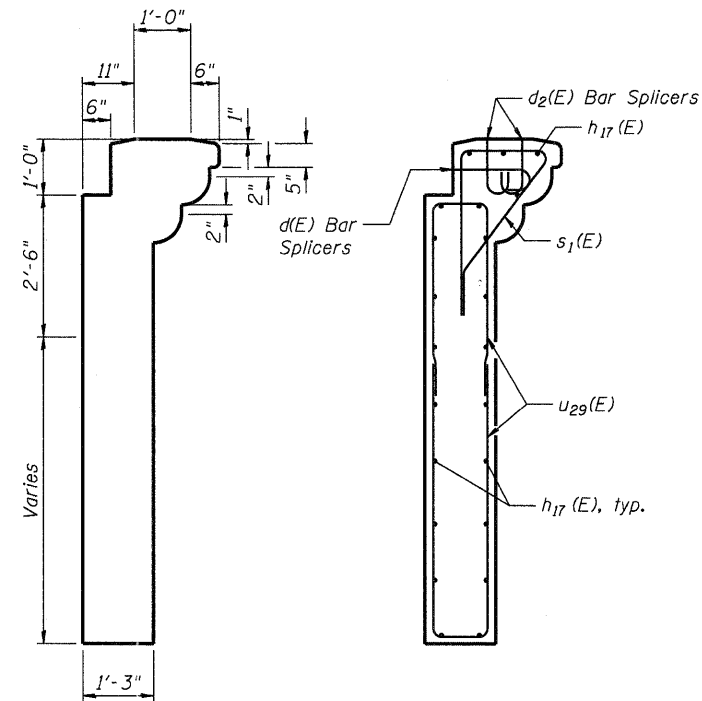
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

PRECAST CONCRETE FASCIA PANEL - SPANDREL
STRUCTURE NO. 045-6006
SHEET NO. SW-23 OF SW-48 SHEETS

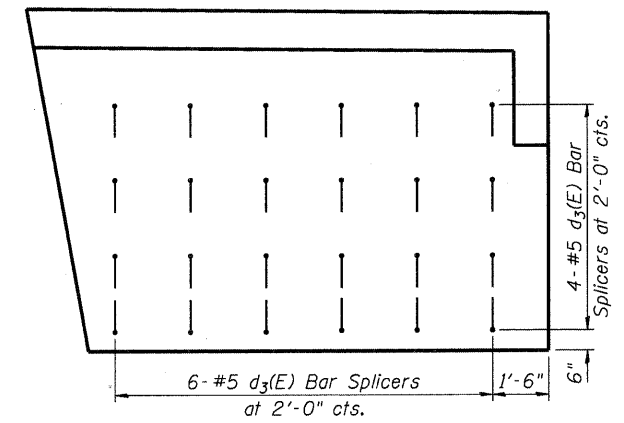
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	75
CONTRACT NO. 63620				
[ILLINOIS] FED. AID PROJECT				



PLAN - NWA

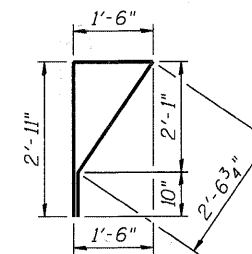


SECTION A-A

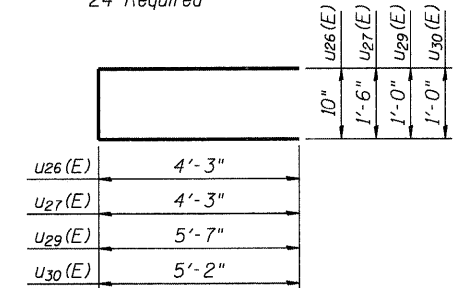


BAR SPLICER LAYOUT

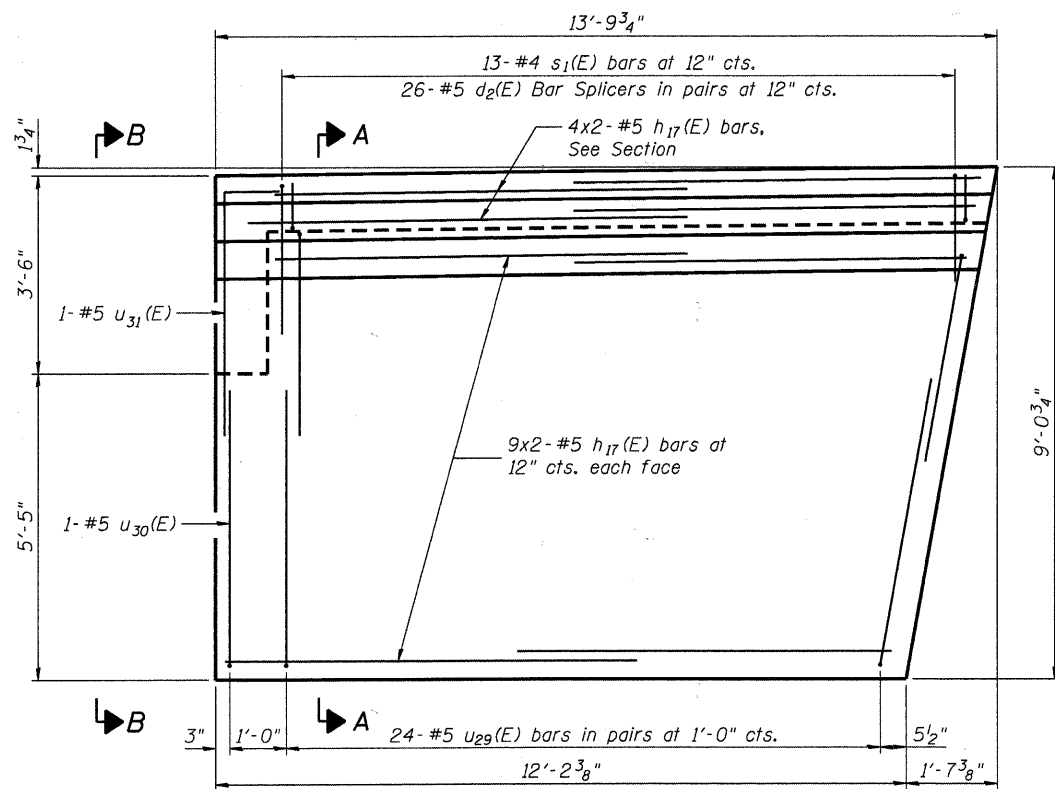
24 Required



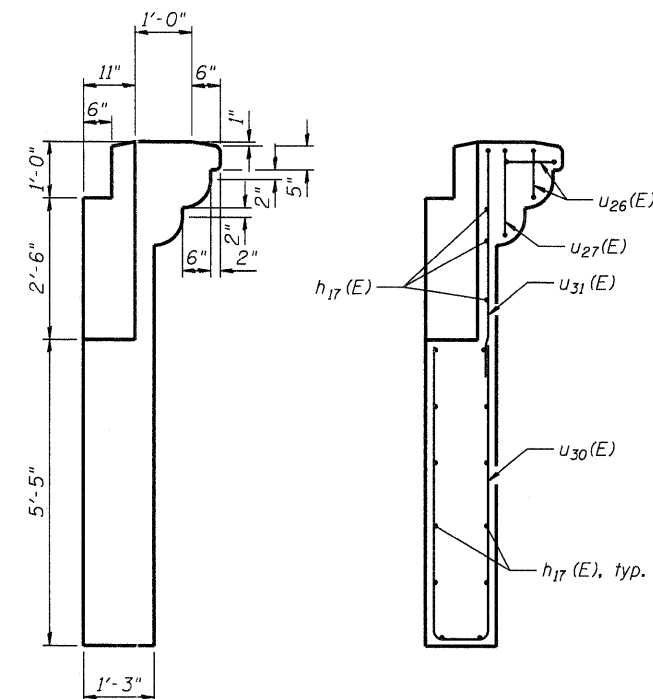
BAR s1(E)



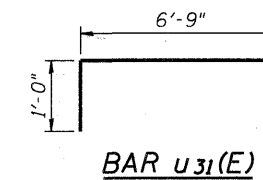
BARS u26(E), u27(E), u29(E) AND u30(E)



ELEVATION - NWA



SECTION B-B



BAR u31(E)

ABUTMENT PANEL REINFORCEMENT

Bar	No.	Size	Length	Shape
s1(E)	13	#4	7'-9"	
h17(E)	44	#5	8'-7"	
u26(E)	2	#4	9'-4"	
u27(E)	1	#4	10'-0"	
u29(E)	24	#5	12'-2"	
u30(E)	1	#5	11'-4"	
u31(E)	1	#5	7'-9"	

Approximate quantities for one (1) abutment panel

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE PLOTTED: 7/26/2011 10:05:51 AM
 PLOT PRINTER: HP DesignJet 2000
 PEN TABLE: Structure 20x34.tbl



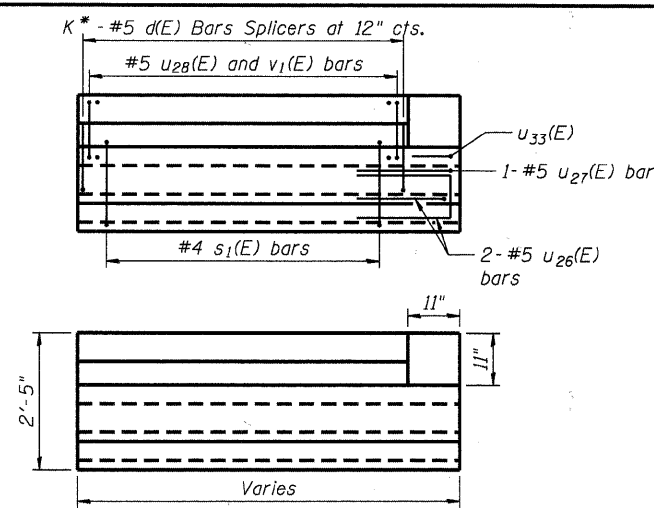
USER NAME = whood	DESIGNED - SSM	REVISED -
CHECKED - RGD	CHECKED - RGD	REVISED -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISED -
PLOT DATE = 7/26/2011	CHECKED -	REVISED -

CITY OF AURORA
 DOWNER PLACE OVER THE WEST BRANCH
 OF THE FOX RIVER

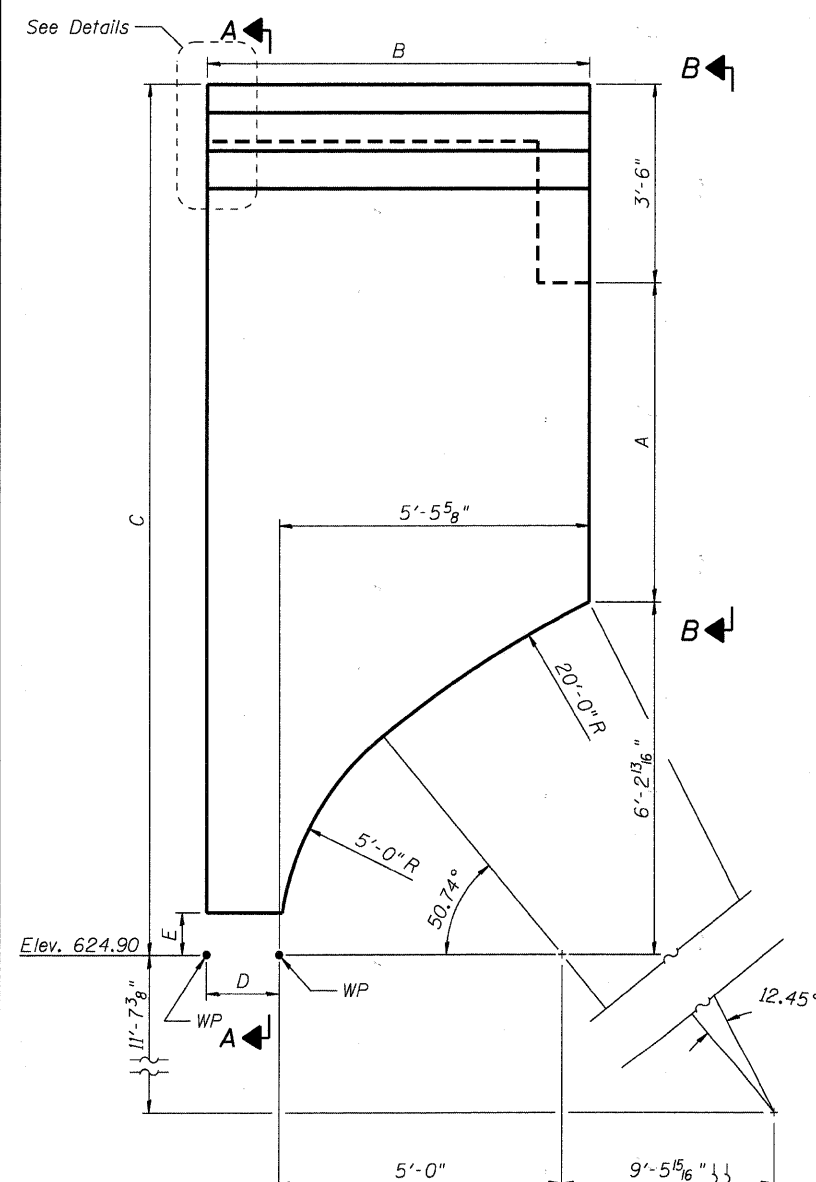
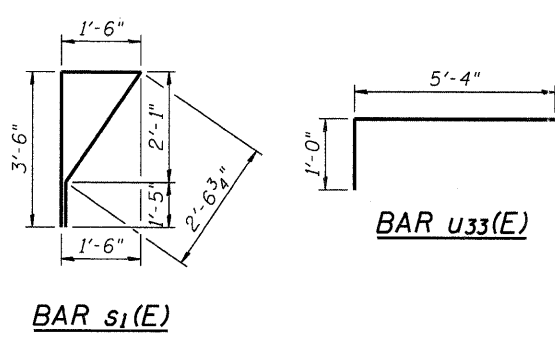
PRECAST CONCRETE FASCIA PANEL - ABUTMENT
 STRUCTURE NO. 045-6006

SHEET NO. SW-24 OF SW-48 SHEETS

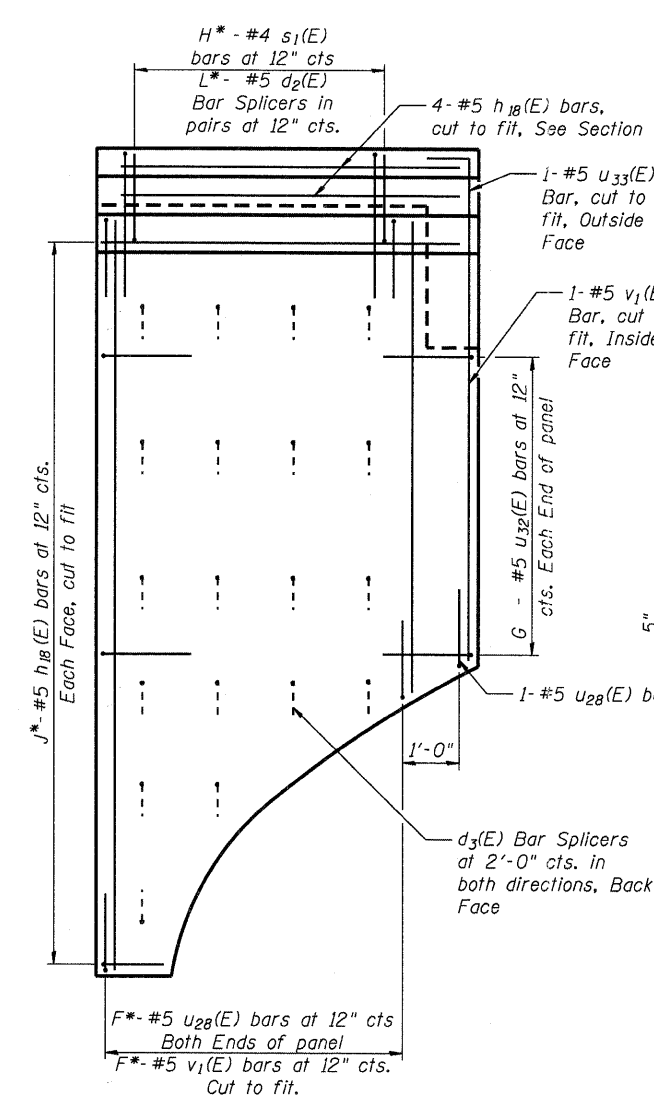
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	76
CONTRACT NO. 63620				
[ILLINOIS] FED. AID PROJECT				



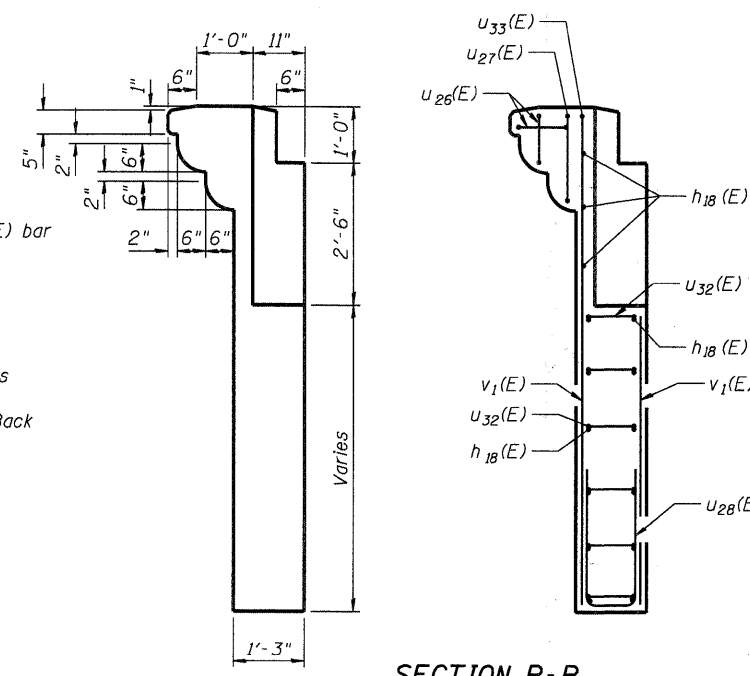
PLAN - SWA
Panel SEA - Opposite Hand



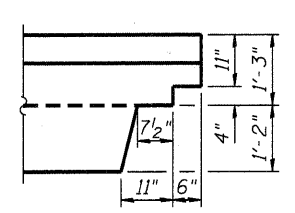
ELEVATION - SWA
Panel SEA - Opposite Hand



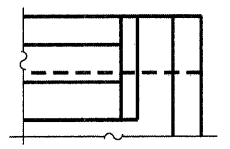
SECTION A-A



SECTION B-B



DETAIL PLAN - SEA



DETAIL ELEVATION - SEA

Bar	Length
U26(E)	4'-3"
U27(E)	4'-3"
U28(E)	3'-9"
U32(E)	3'-9"

BARS U26(E), U27(E), U29(E) AND U30(E)

ABUTMENT PANEL REINFORCEMENT

Bar	No.	Size	Length	Shape
s1(E)	17	#4	9'-0"	∇
h18(E)	40	#5	6'-3"	
U26(E)	6	#4	9'-4"	U
U27(E)	3	#4	10'-0"	U
U28(E)	37	#5	8'-6"	U
U29(E)	32	#5	8'-4 3/4"	U
U33(E)	3	#5	6'-4"	U
v1(E)	26	#5	13'-4"	

Approximate quantities for two (2) abutment panels.

PANEL DIMENSION TABLE

	A	B	C	D	E	F	G	H	J	K	L
SWA	5'-7 3/4"	6'-9"	15'-5 3/8"	1'-3 3/8"	9"	6	6	6	14	6	12
SEA	4'-0 1/8"	6'-0"	13'-8 1/8"	6 3/8"	1"	6	5	6	13	6	12

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 16690472-WP-07.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: Struct 20x24.tbl

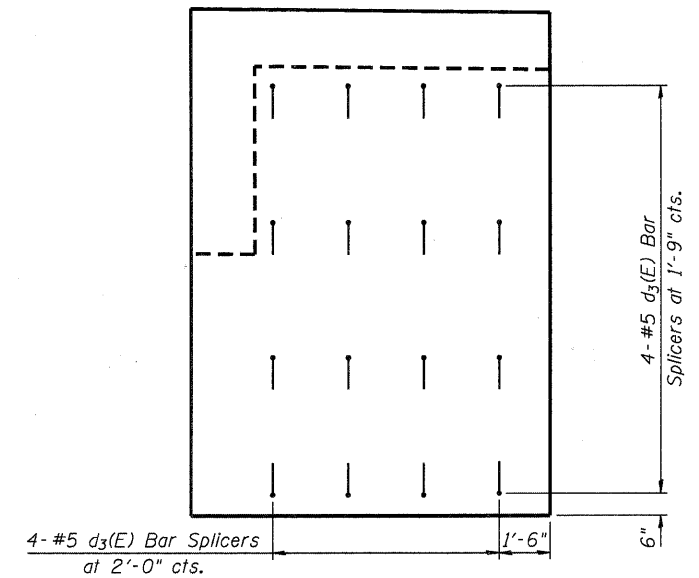
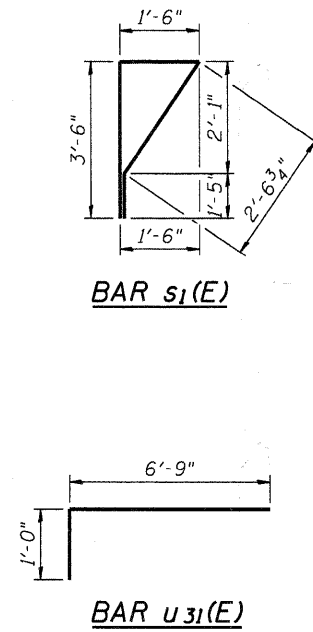
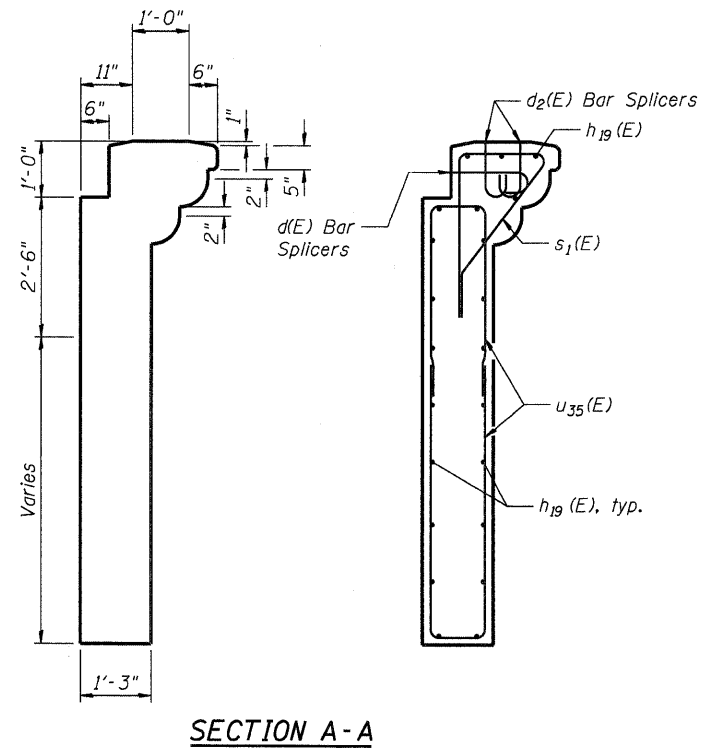
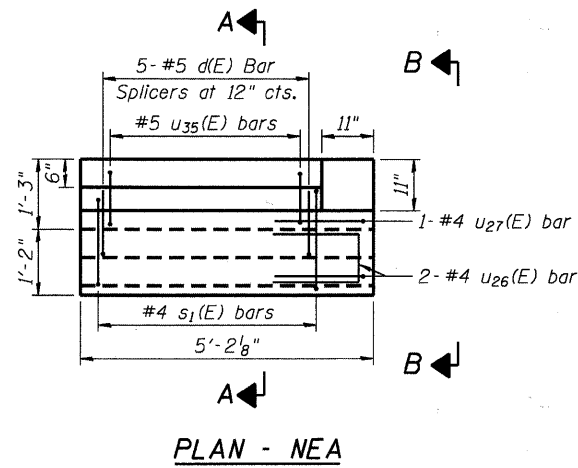
HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #194-001322

USER NAME = whood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
 DOWNER PLACE OVER THE WEST BRANCH
 OF THE FOX RIVER

PRECAST CONCRETE FASCIA PANEL - ABUTMENT
 STRUCTURE NO. 045-6006

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	77
			CONTRACT NO.	63620
[ILLINOIS] FED. AID PROJECT				

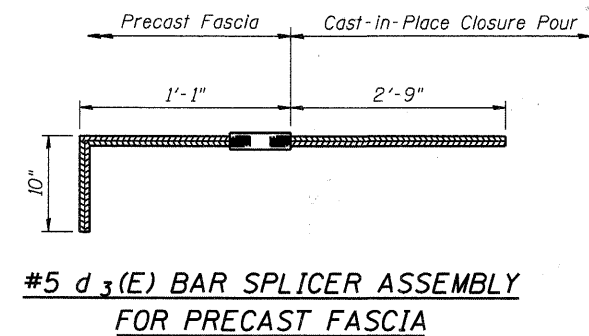
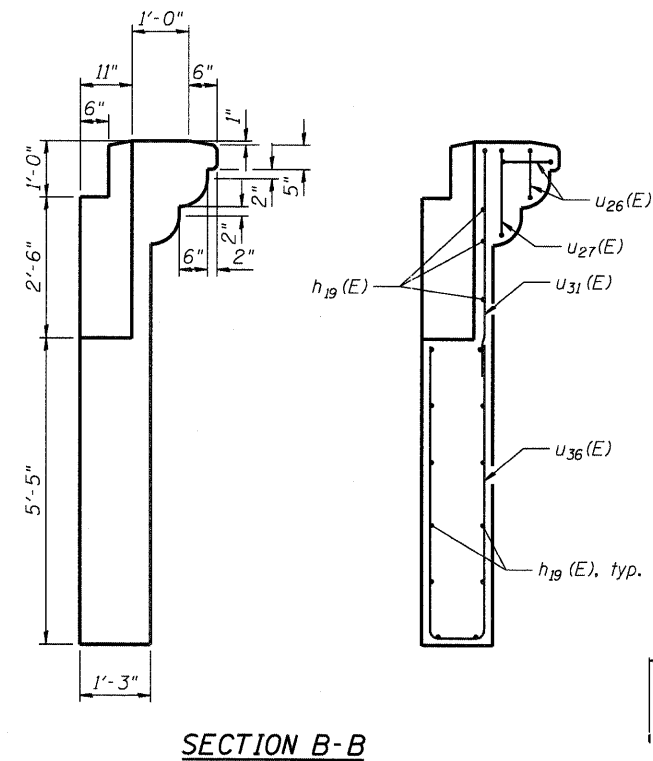
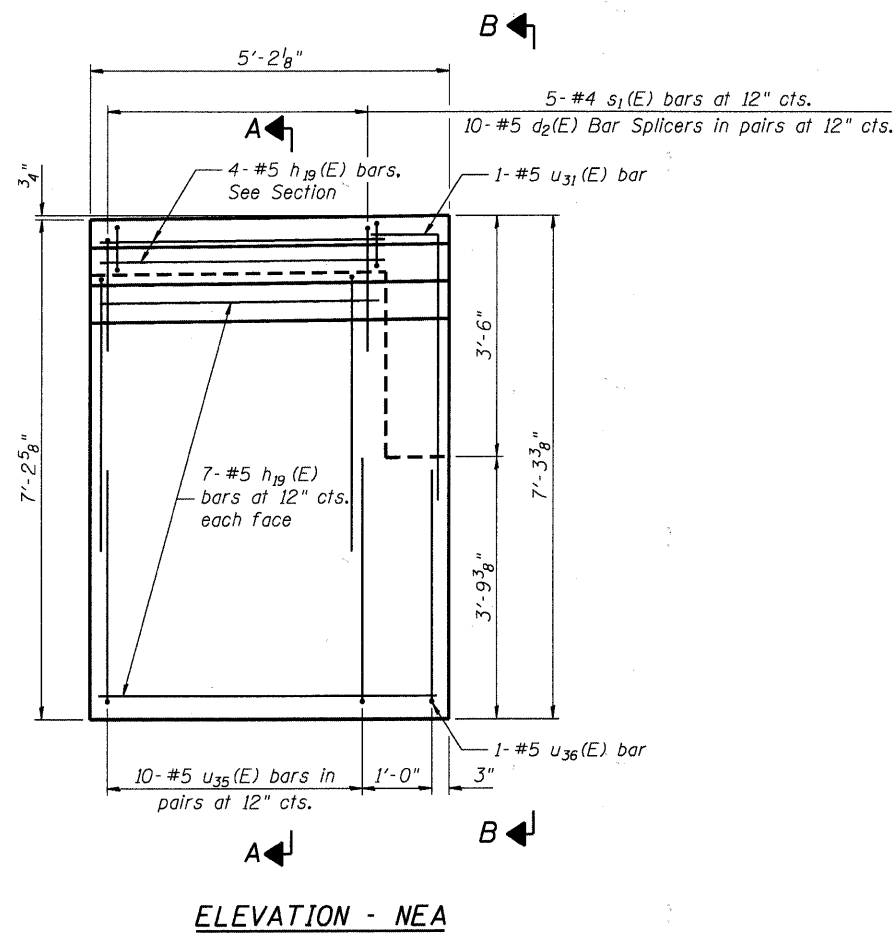


BAR SPLICER LAYOUT

16 Required

		u35(E)	u36(E)	u26(E)	u27(E)
		1'-0"	1'-0"	10"	1'-6"
u35(E)	4'-6"				
u36(E)	3'-6"				
u26(E)	4'-3"				
u27(E)	4'-3"				

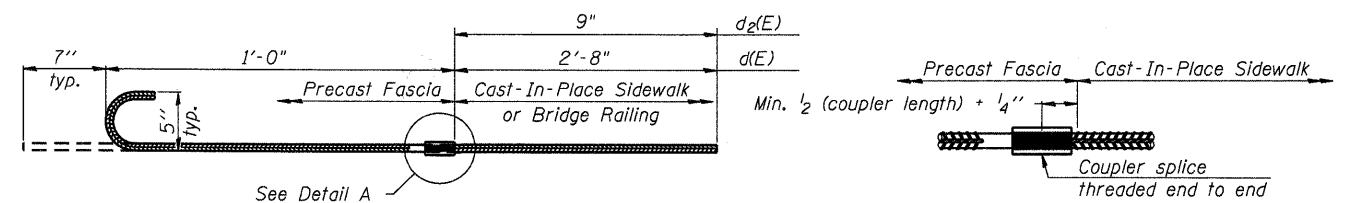
BARS u35(E), u36(E), u26(E), AND u27(E)



No. required = 80 - Abutment Panels

ABUTMENT PANEL REINFORCEMENT

Bar	No.	Size	Length	Shape
s1(E)	5	#4	9'-0"	
h19(E)	44	#5	4'-10"	
u26(E)	2	#4	9'-4"	
u27(E)	1	#4	10'-0"	
u31(E)	1	#5	7'-9"	
u35(E)	10	#5	10'-0"	
u36(E)	1	#5	8'-0"	



No. d(E) required = 30 - Abutment Panels
No. d2(E) required = 60 - Abutment Panels

#5 d(E) AND d2(E) BAR SPLICER ASSEMBLY FOR PRECAST FASCIA

DETAIL A

COMPANY NAME: HRGREEN
PROJECT CONTACT: Michael G. Harding
DATE PLOTTED: 7/26/2011 11:00:59 AM
FILE NAME: 86090412-1-PP-08.tbl
PLOT DRIVER: default
PEN TABLE: Struct 22x34.tbl



USER NAME = whood
PLOT SCALE = N.T.S.
PLOT DATE = 7/26/2011

DESIGNED - SSM
CHECKED - RGD
DRAWN - WJH
CHECKED -

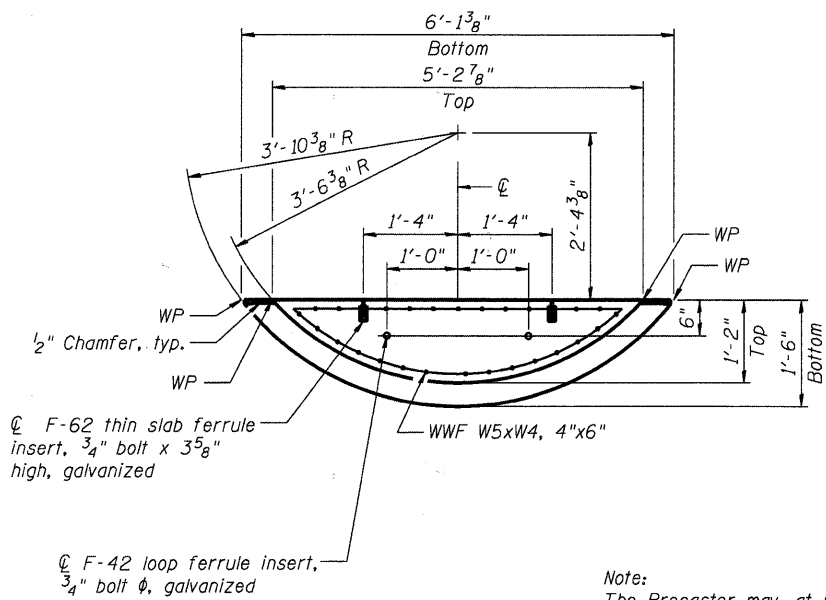
REVISED -
REVISED -
REVISED -
REVISED -

**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

**PRECAST CONCRETE FASCIA PANEL - ABUTMENT
STRUCTURE NO. 045-6006**

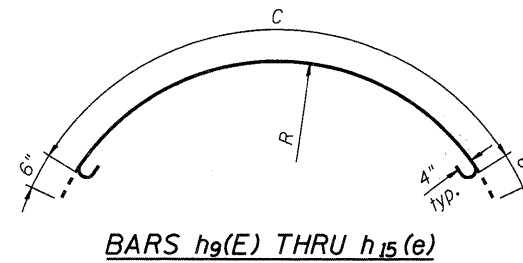
SHEET NO. SW-26 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	78
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



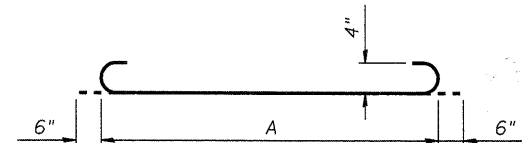
PLAN

Note:
The Precaster may, at his option, Cast the Outlook Bottom and the Pier Fascia Panels as one piece. Submit reinforcement details for review and approval.



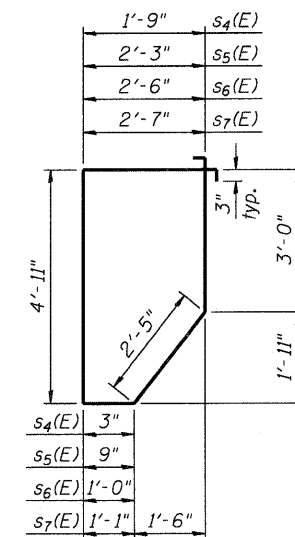
BARS $h_9(E)$ THRU $h_{15}(E)$

	$h_9(E)$	$h_{10}(E)$	$h_{11}(E)$	$h_{12}(E)$	$h_{13}(E)$	$h_{14}(E)$	$h_{15}(E)$
R	3'-7 1/4"	4'-3 3/4"	5'-0 1/2"	5'-7 1/4"	6'-2"	6'-10 1/4"	7'-6 1/2"
C	5'-0"	7'-8"	10'-2"	12'-0"	13'-10"	16'-1"	18'-4"

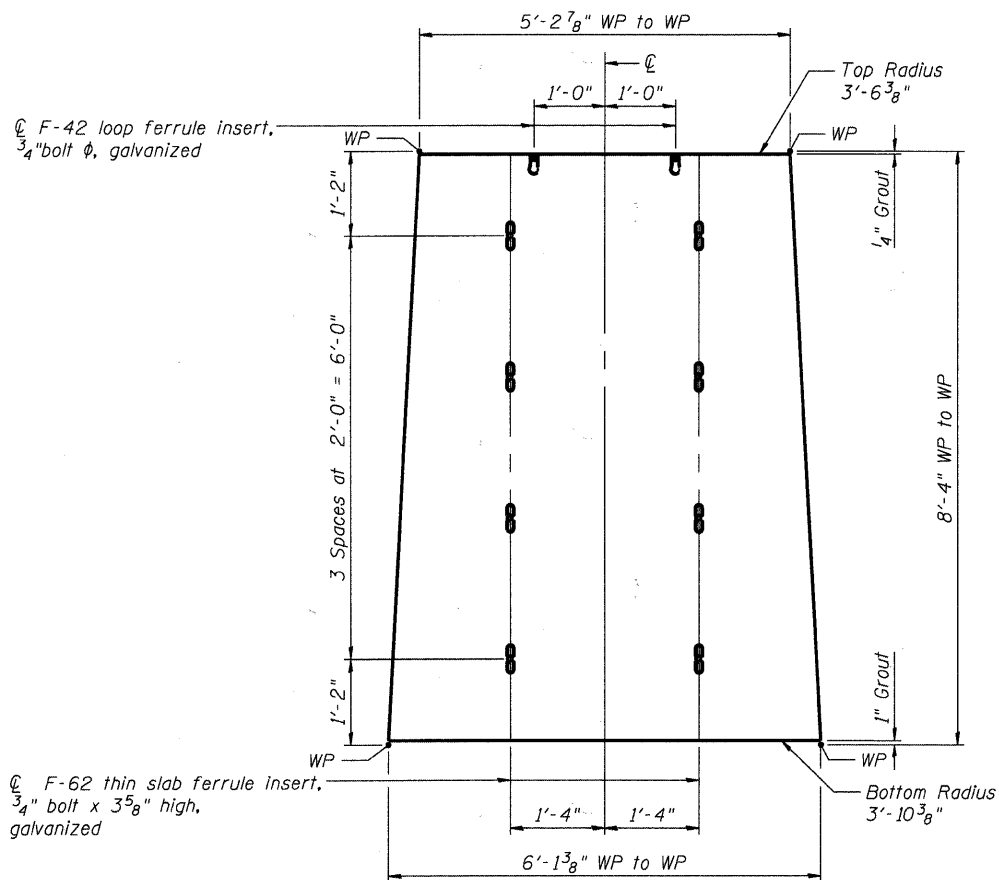


BARS $h_3(E)$ THRU $h_8(E)$

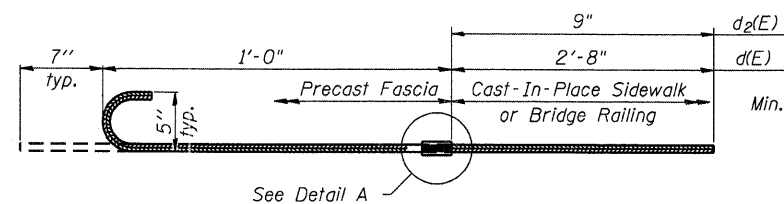
	$h_3(E)$	$h_4(E)$	$h_5(E)$	$h_6(E)$	$h_7(E)$	$h_8(E)$
A	4'-6"	6'-7"	8'-5"	9'-9"	11'-0"	12'-6"



BARS $s_4(E)$ THRU $s_7(E)$

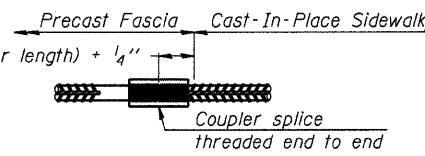


ELEVATION

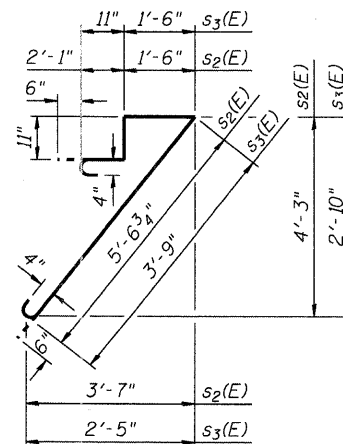


#5 $d(E)$ AND $d_2(E)$ BAR SPLICER ASSEMBLY FOR PRECAST FASCIA

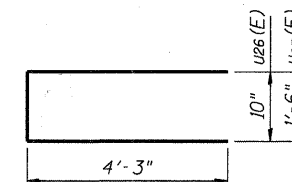
No. $d(E)$ required = 68 - Outlooks
No. $d_2(E)$ required = 136 - Outlooks



DETAIL A



BARS $s_2(E)$ AND $s_3(E)$



BARS $u_{26}(E)$ AND $u_{27}(E)$

OUTLOOK REINFORCEMENT

Bar	No.	Size	Length	Shape
$s_2(E)$	60	#4	11'-0"	⌋
$s_3(E)$	8	#4	7'-2"	⌋
$s_4(E)$	8	#4	12'-10"	⌋
$s_5(E)$	8	#4	13'-10"	⌋
$s_6(E)$	8	#4	14'-4"	⌋
$s_7(E)$	4	#4	14'-6"	⌋
$h_3(E)$	4	#4	5'-6"	⌋
$h_4(E)$	4	#4	7'-7"	⌋
$h_5(E)$	4	#4	8'-5"	⌋
$h_6(E)$	4	#4	9'-9"	⌋
$h_7(E)$	4	#4	11'-0"	⌋
$h_8(E)$	4	#4	12'-6"	⌋
$h_9(E)$	8	#4	6'-0"	⌋
$h_{10}(E)$	4	#4	8'-8"	⌋
$h_{11}(E)$	16	#4	11'-2"	⌋
$h_{12}(E)$	4	#4	13'-0"	⌋
$h_{13}(E)$	12	#4	14'-10"	⌋
$h_{14}(E)$	8	#4	17'-1"	⌋
$h_{15}(E)$	4	#4	19'-4"	⌋
$u_{26}(E)$	16	#4	9'-4"	⌋
$u_{27}(E)$	8	#4	10'-0"	⌋

Approximate quantities for four (4) Outlook Assemblies

HRGREEN
PROJECT CONTACT: Michael G. Harding
DATE PLOTTED: 7/26/2011 10:01 AM
FILE NAME: 86090472-WP-048-102.dgn
PLOT DRIVER: pdfplot
PEN TABLE: Structure 22x34.tbl



USER NAME = whoold
PLOT SCALE = N.T.S.
PLOT DATE = 7/26/2011

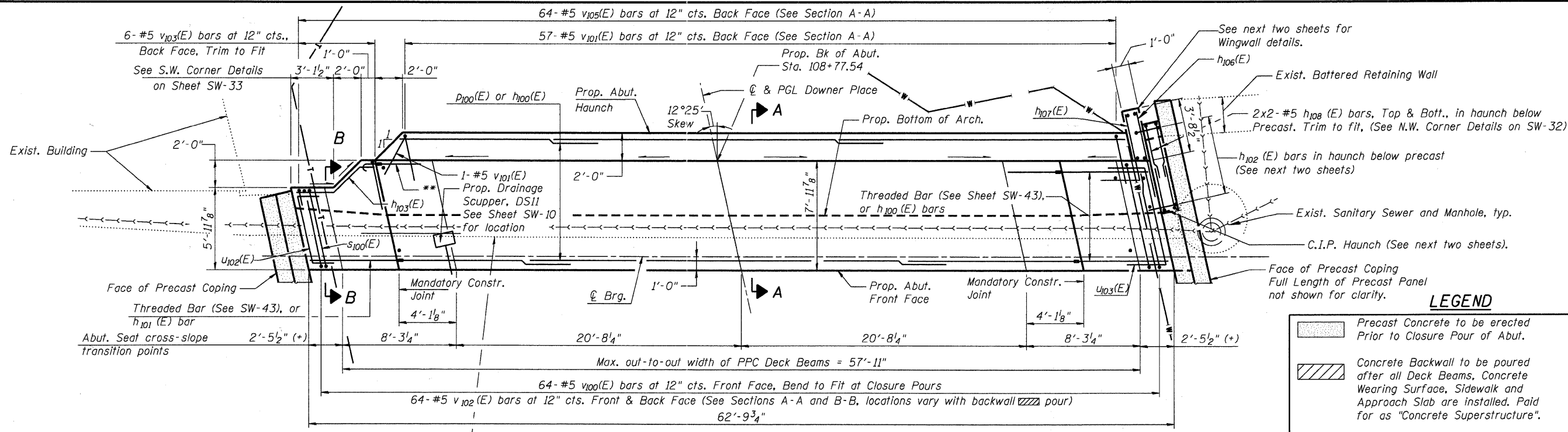
DESIGNED - SSM
CHECKED - RGD
DRAWN - WJH
CHECKED -
REVISED -
REVISED -
REVISED -

**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

**PRECAST CONCRETE OUTLOOK - BOTTOM DETAILS
STRUCTURE NO. 045-6006**

SHEET NO. SW-29 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	81
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				



PLAN
(Looking West)
- Plan does not include hatched portion of elevation

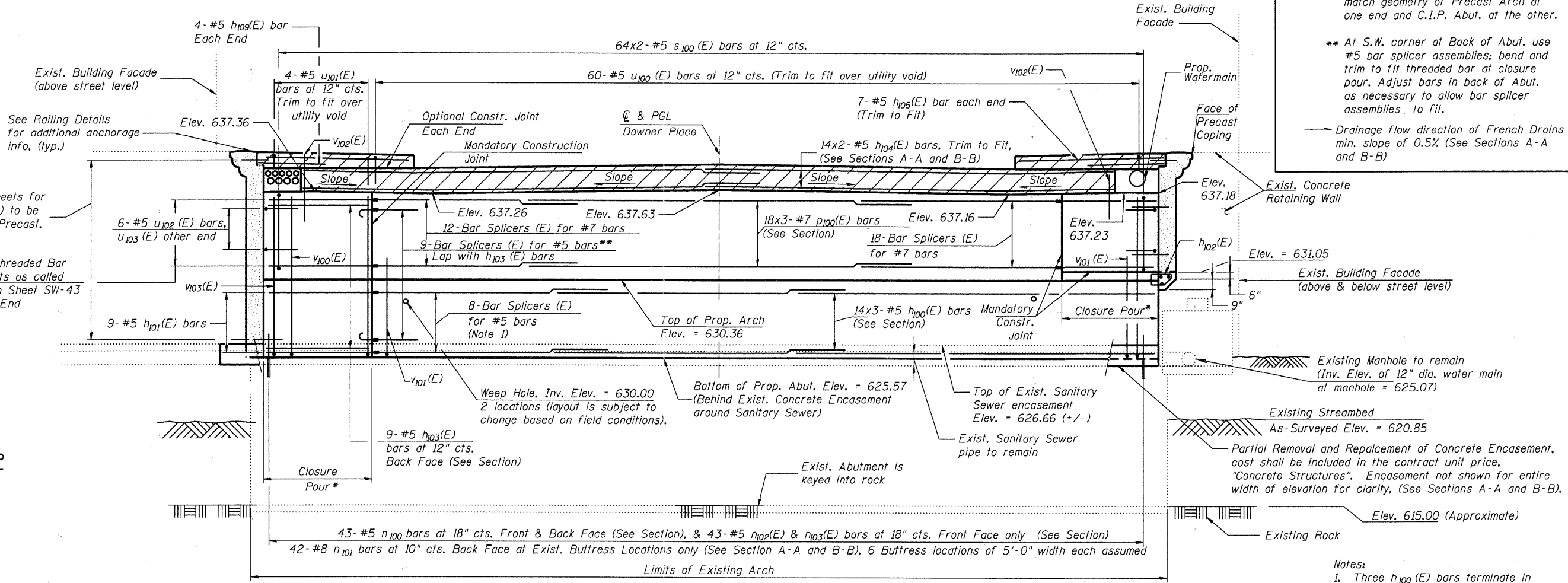
LEGEND

- Precast concrete to be erected prior to concrete pour of abutment.
- Concrete backwall to be poured after all deck beams, concrete wearing surface, sidewalk and approach slab are installed. Paid for as "Concrete Superstructure".

* C.I.P. Abut. closure pour shall be installed after precast fascia panels are erected and shall match geometry of precast arch at one end and C.I.P. abut. at the other.

** At S.W. corner at back of abutment, use #5 bar splicer assemblies; bend and trim to fit threaded bar at closure pour. Adjust bars in back of abutment as necessary to allow bar splicer assemblies to fit.

— Drainage flow direction of French drains min. slope of 0.5% (See Sections A-A and B-B)



ELEVATION
(Looking West)

MINIMUM BAR LAP
#5 = 2'-11"
#7 = 4'-8"

- Notes:**
- Three h100(E) bars terminate in Prop. Abut. Haunch and do not receive bar splicers (Each End).
 - See next sheet for Sections A-A and B-B.

HRGREEN
PROJECT CONTACT:
CLIENT:
DATE PLOTTED:
FILE NAME:
PEN TABLE:

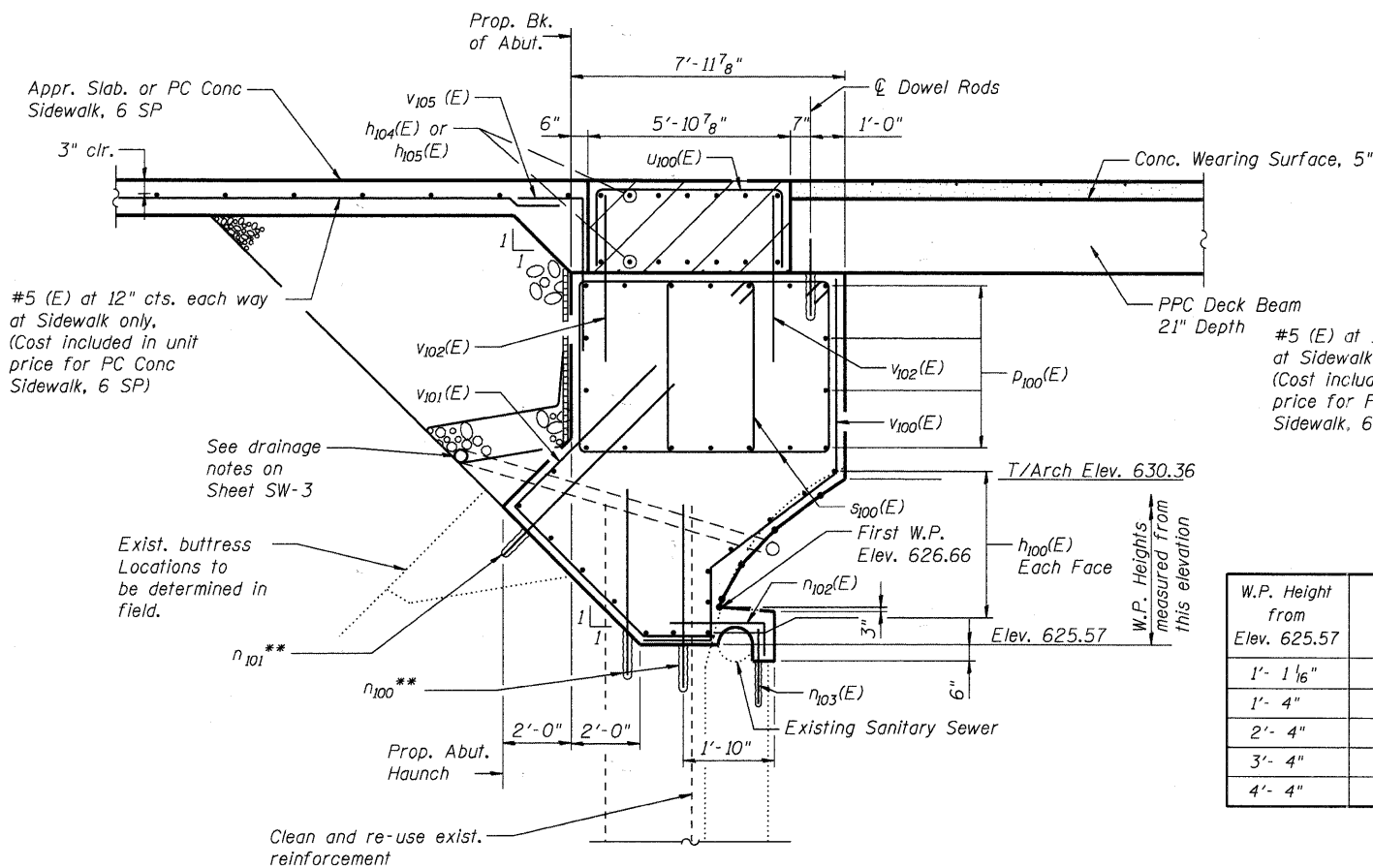


USER NAME = whood	DESIGNED - JMW	REVISOR -
	CHECKED - RGD	REVISIONS -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISIONS -
PLOT DATE = 7/26/2011	CHECKED -	REVISIONS -

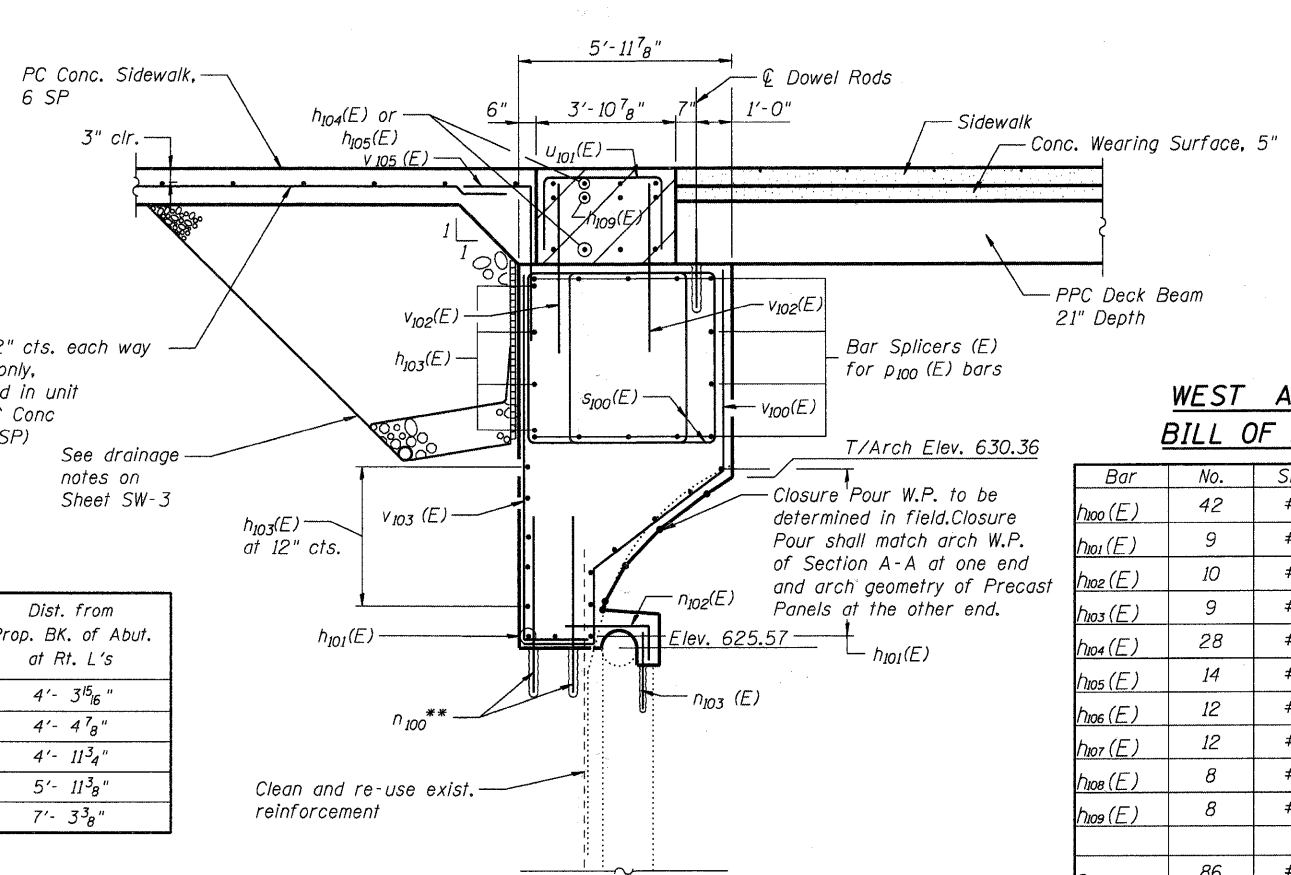
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

WEST ABUTMENT
STRUCTURE NO. 045-6006
SHEET NO. SW-30 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	82
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



SECTION A-A THRU ABUTMENT
Horizontal Dimensions at Rt. L's

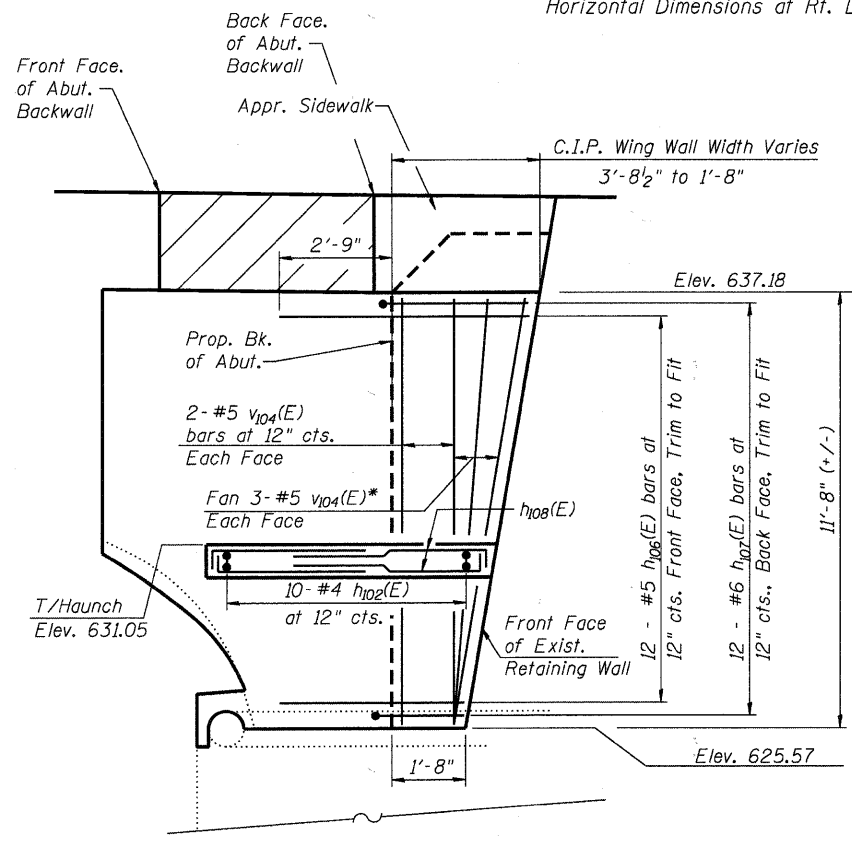


SECTION B-B THRU ABUTMENT
Horizontal Dimensions at Rt. L's

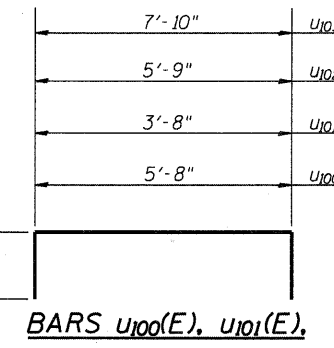
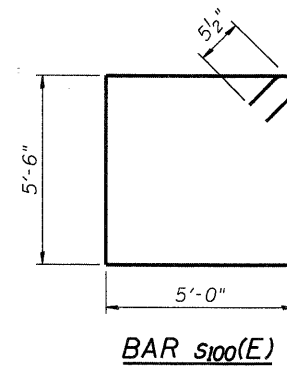
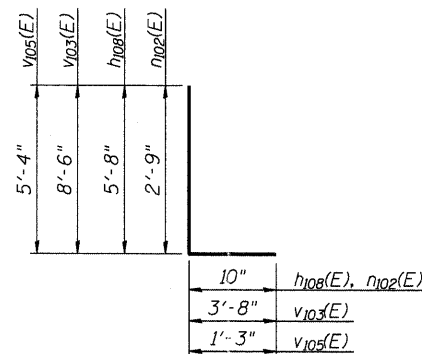
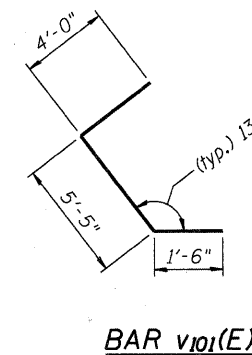
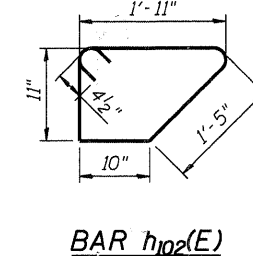
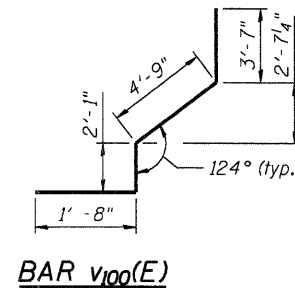
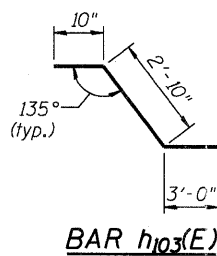
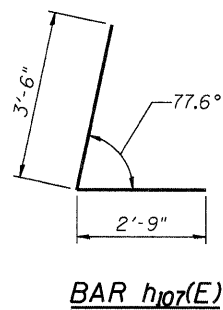
W.P. Height from Elev. 625.57	Dist. from Prop. BK. of Abut. at Rt. L's
1'- 1 1/16"	4'- 3 15/16"
1'- 4"	4'- 4 7/8"
2'- 4"	4'- 11 3/4"
3'- 4"	5'- 11 3/8"
4'- 4"	7'- 3 3/8"

= See Pouring Sequence notes on previous sheet

** = See Drill and grout notes on East Abutment Details



N.W. WINGWALL ELEVATION
- Precast not shown for clarity



WEST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h100 (E)	42	#5	20'- 10"	—
h101 (E)	9	#5	6'- 4"	—
h102 (E)	10	#4	5'- 10"	□
h103 (E)	9	#5	6'- 8"	—
h104 (E)	28	#5	31'- 2"	—
h105 (E)	14	#5	10'- 1"	—
h106 (E)	12	#5	6'- 4"	—
h107 (E)	12	#6	6'- 3"	L
h108 (E)	8	#5	6'- 6"	L
h109 (E)	8	#5	4'- 10"	—
n100	86	#5	1'- 10"	—
n101	42	#8	4'- 10"	—
n102 (E)	43	#5	3'- 7"	L
n103 (E)	43	#5	1'- 7"	—
n104 (E)	54	#7	19'- 3"	—
s100 (E)	128	#5	21'- 11"	□
u100 (E)	60	#5	9'- 8"	—
u101 (E)	4	#5	8'- 8"	—
u102 (E)	6	#5	9'- 9"	—
u103 (E)	6	#5	11'- 10"	—
v100 (E)	64	#5	12'- 1"	L
v101 (E)	58	#5	10'- 11"	L
v102 (E)	128	#5	4'- 3"	—
v103 (E)	6	#5	12'- 2"	L
v104 (E)	10	#5	11'- 4"	—
v105 (E)	64	#5	6'- 7"	L
Structure Excavation		Cu. Yd.	133.8	
Cofferdam (Location - 1)		Each	0.5	
Concrete Structures		Cu. Yd.	193.9	
Concrete Superstructure		Cu. Yd.	33.7	
Reinforcement Bars		Pound	710	
Reinforcement Bars, Epoxy		Pound	11,150	
Bar Splicers		Each	48	
Concrete Sealer		Sq. Ft.	100	

For details of Bar Splicers, see sheet SW-43

COMPANY NAME: HRGREEN
PROJECT CONTACT: Michelle G. Harshbarger
CITY OF AURORA
CLIENT: CITY OF AURORA
FILE NAME: 86090472-#401661.dgn
PLOT DRIVER: pefor
PEN TABLE: Struct 22x34.tbl



USER NAME = whood
DESIGNED - JMW
CHECKED - RGD
DRAWN - WJH
CHECKED -
PLOT SCALE = N.T.S.
PLOT DATE = 7/26/2011

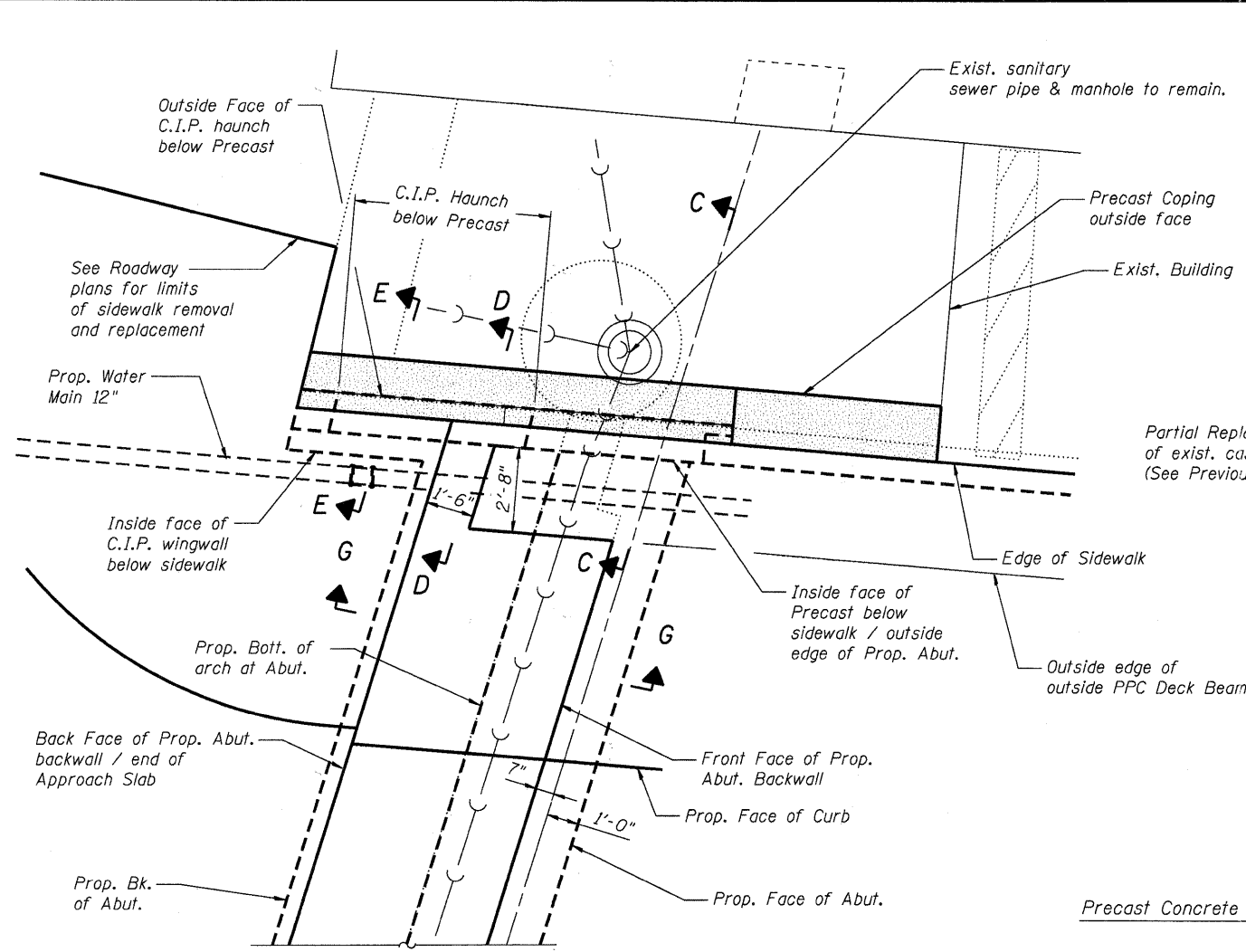
REVISOR -
REVISOR -
REVISOR -
REVISOR -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

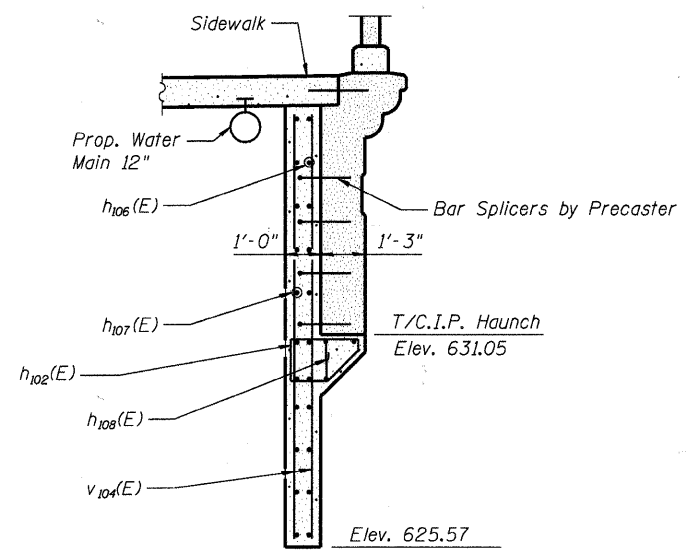
WEST ABUTMENT DETAILS
STRUCTURE NO. 045-6006

SHEET NO. SW-31 OF SW-48 SHEETS

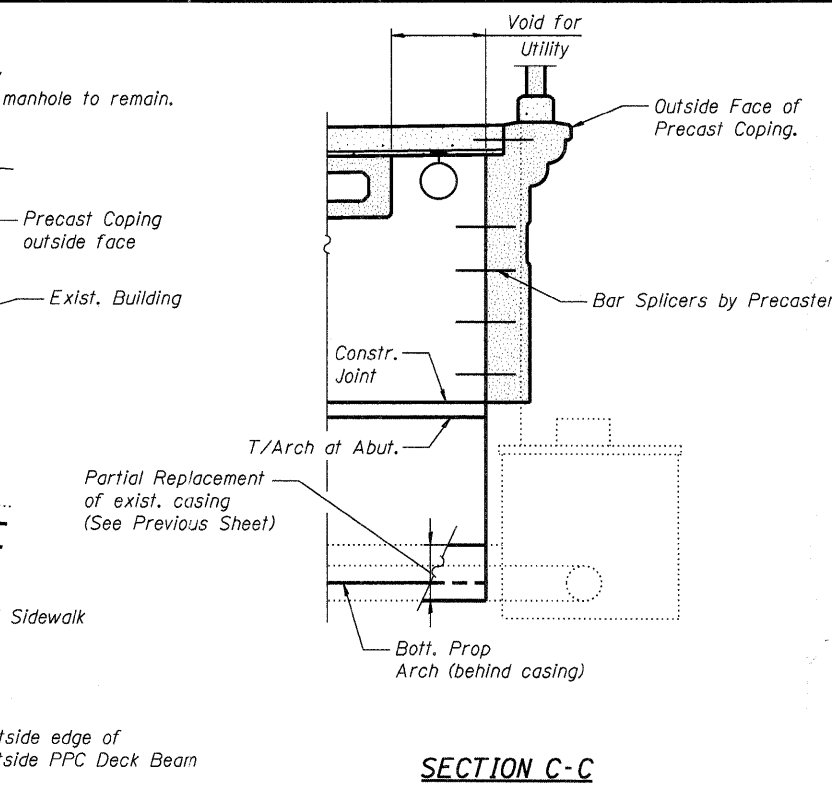
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	83
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



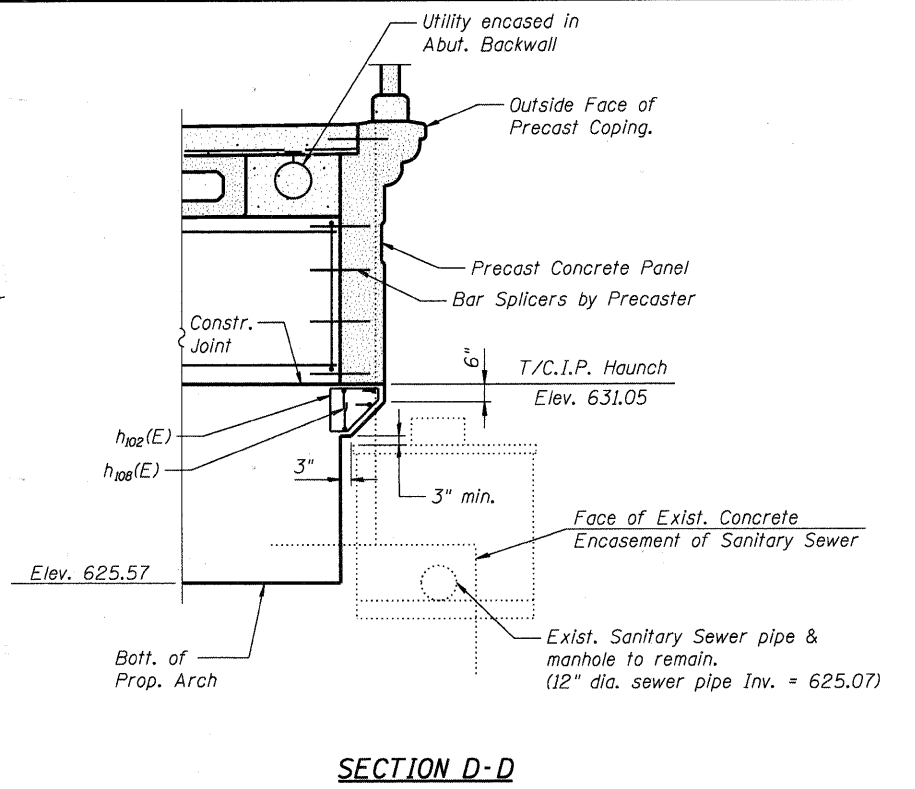
PLAN - N.W. CORNER OF WEST ABUTMENT
Railing not shown for clarity



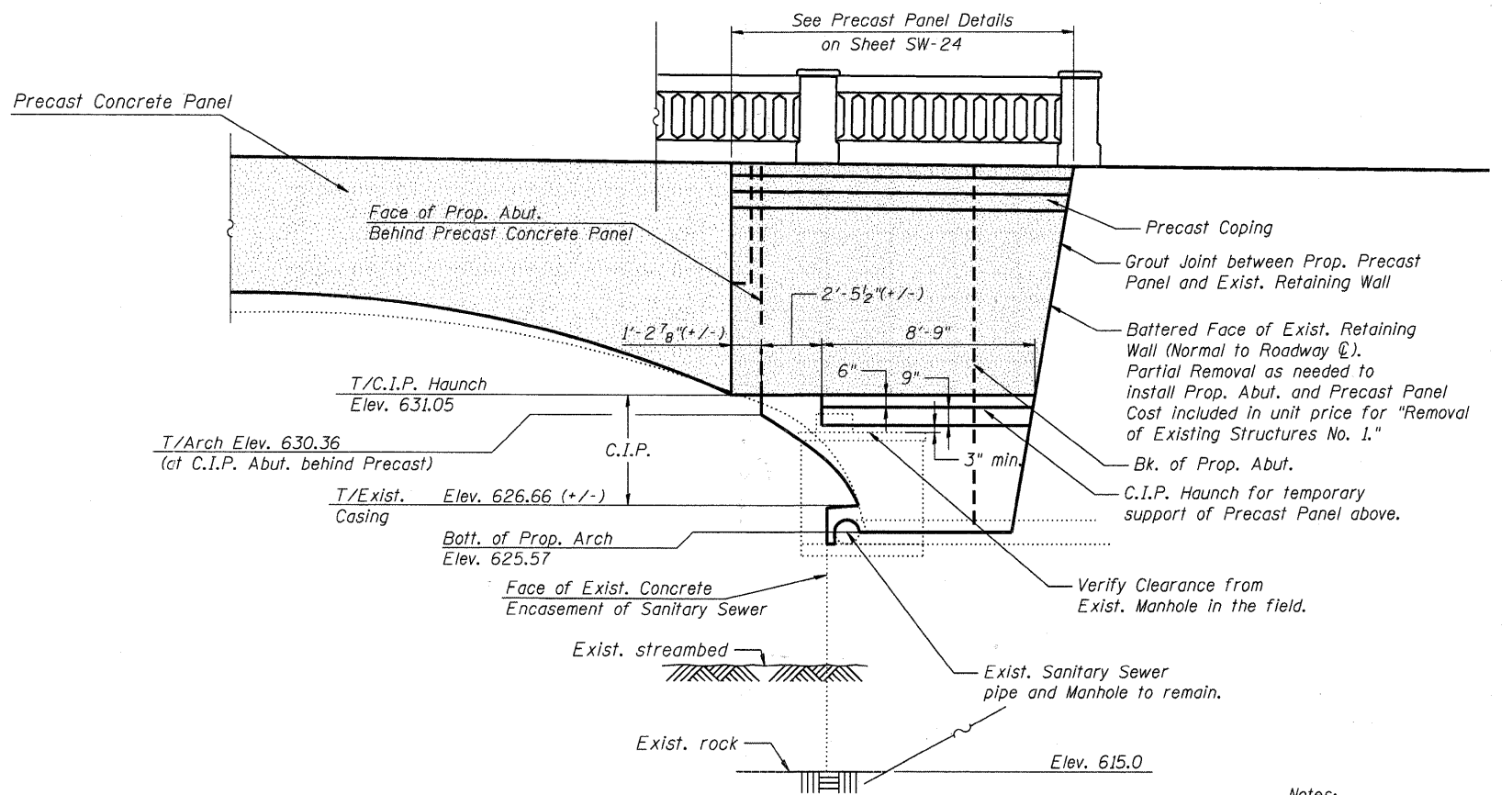
SECTION E-E



SECTION C-C



SECTION D-D



ELEVATION AT N.W. CORNER OF WEST ABUTMENT
Parallel to Roadway C

Notes:
1. See next sheet for Section G-G

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 07/26/2011 10:03:00 AM
DRAWN BY: JWH
PLOT DRIVER: pdt
PEN TABLE: Struct 22x34.tbl

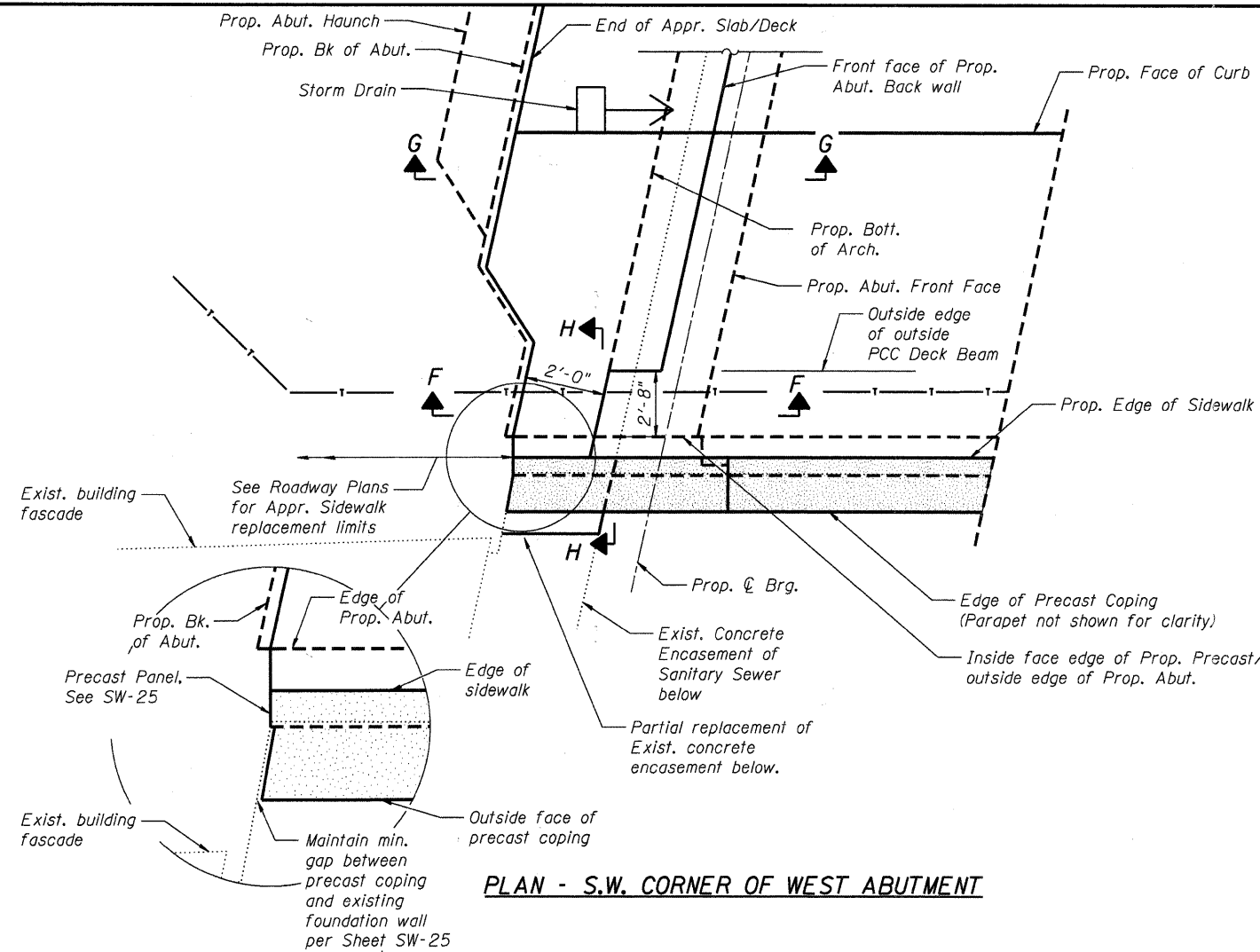


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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

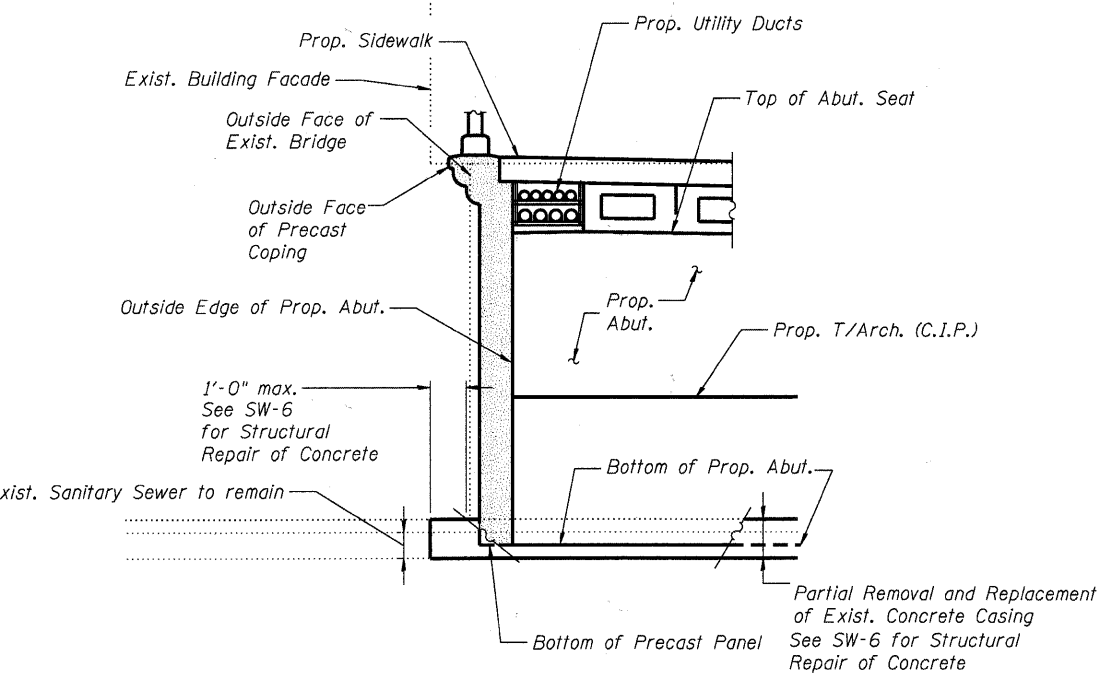
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

NORTHWEST CORNER DETAILS
STRUCTURE NO. 045-6006
SHEET NO. SW-32 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	84
CONTRACT NO. 63620				
ILLINOIS FED. AID PROJECT				

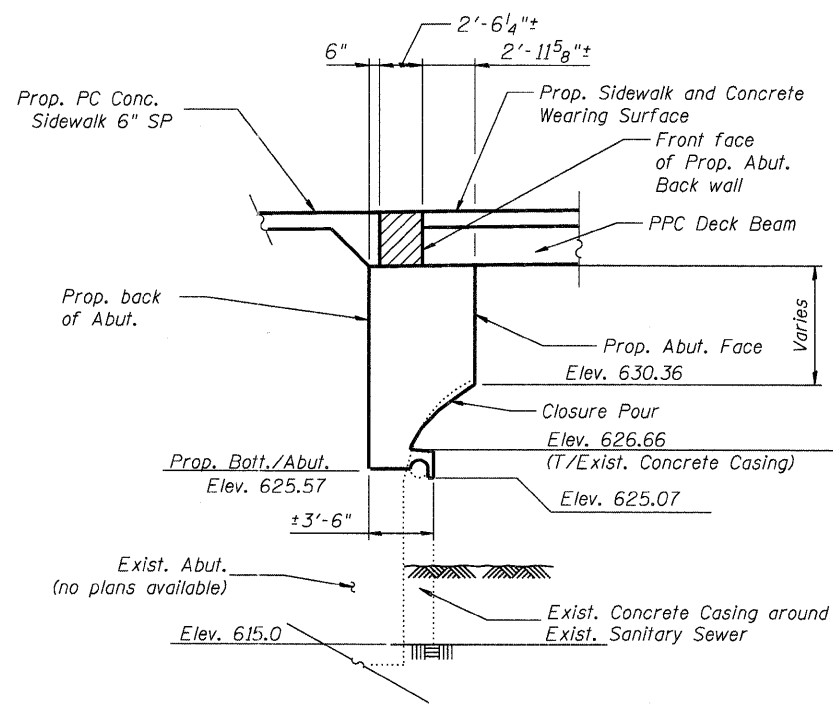


PLAN - S.W. CORNER OF WEST ABUTMENT



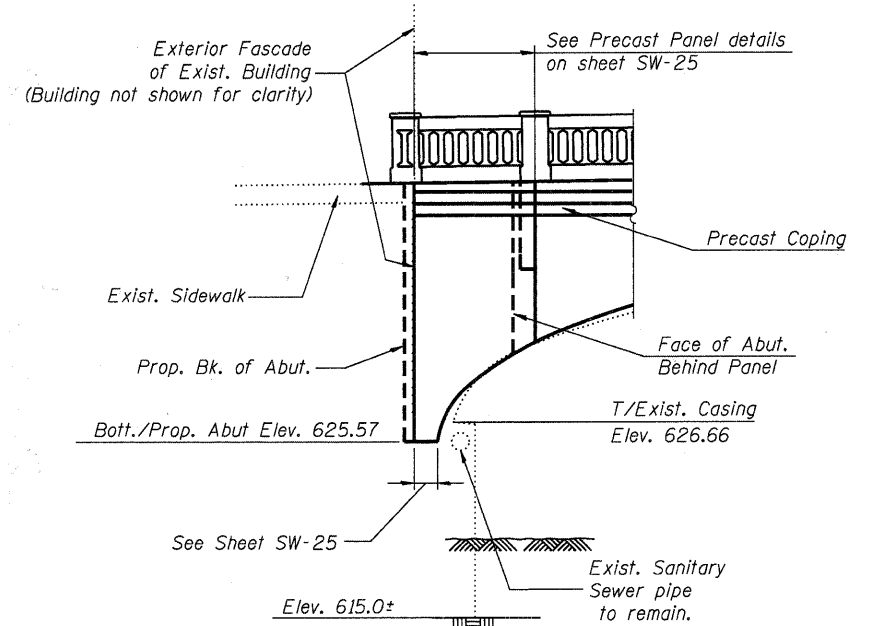
SECTION H-H THRU WEST ABUTMENT

Horizontal Dimensions at Rt. L's



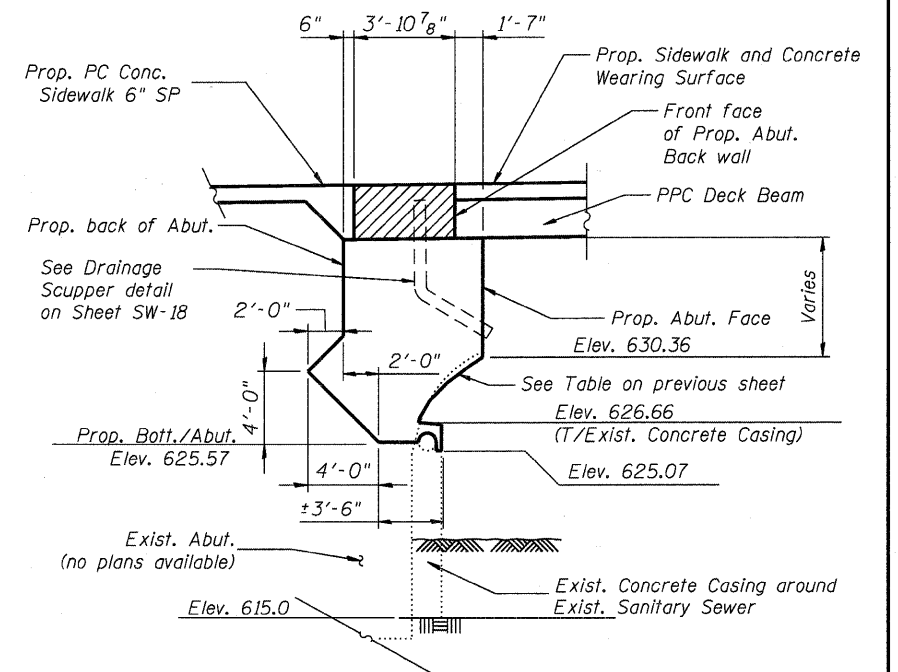
SECTION F-F THRU WEST ABUTMENT

Horizontal Dimensions at Rt. L's



ELEVATION AT S.W. CORNER OF WEST ABUTMENT

Parallel to Roadway &



SECTION G-G THRU WEST ABUTMENT

Horizontal Dimensions at Rt. L's

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 PLOT DATE: 7/26/2011
 FILE NAME: 86090472 #1015v.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: Struct 20x34.tbl



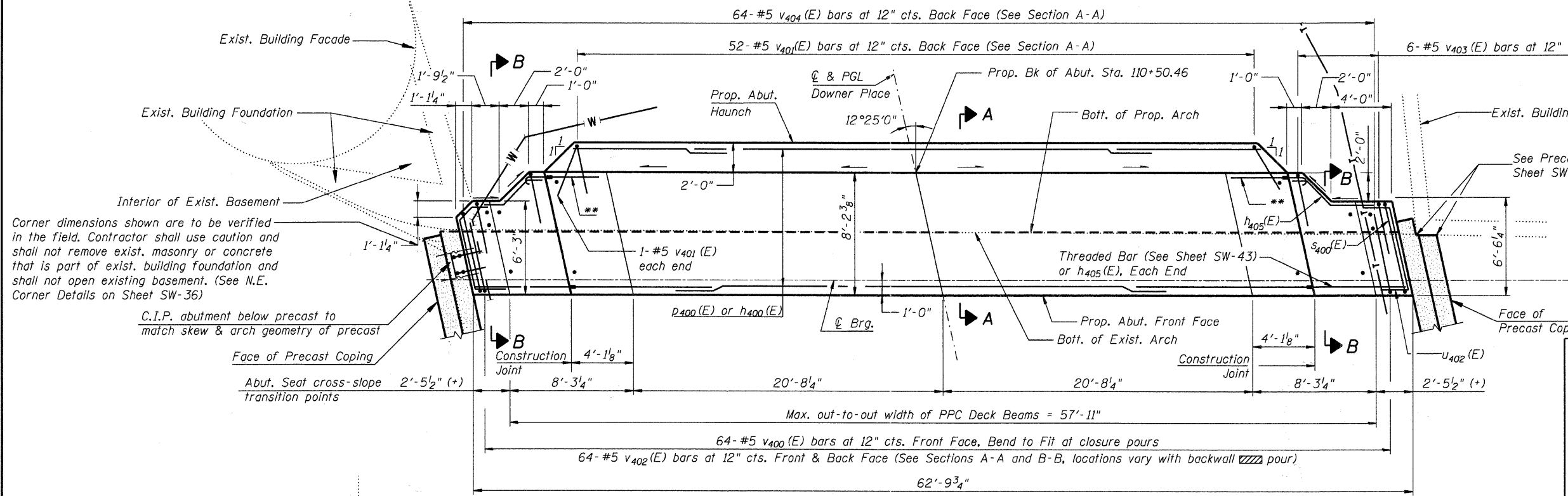
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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

SOUTHWEST CORNER DETAILS
STRUCTURE NO. 045-6006

SHEET NO. SW-33 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	85
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



PLAN
(Looking East)

-Plan does not include hatched portion of elevation

LEGEND

- Precast Concrete to be erected Prior to Closure Pour of Abut.
- Concrete Backwall to be poured after all Deck Beams, Concrete Wearing Surface, Sidewalk and Approach Slab are installed. Paid for as "Concrete Superstructure".
- * C.I.P. Abut. closure pour shall be installed after Precast Fascia Panels are erected and shall match geometry of Precast Arch at one end and C.I.P. Abut. at the other.
- ** At Back of Abut. use #5 bar splicer assemblies; bend and trim to fit threaded bar at closure pour. Adjust bars in back of Abut. as necessary to allow bar splicer assemblies to fit.
- Drainage flow direction of French Drains min. slope of 0.5% (See Abut. Sections)

Corner dimensions shown are to be verified in the field. Contractor shall use caution and shall not remove exist. masonry or concrete that is part of exist. building foundation and shall not open existing basement. (See N.E. Corner Details on Sheet SW-36)

C.I.P. abutment below precast to match skew & arch geometry of precast

Face of Precast Coping

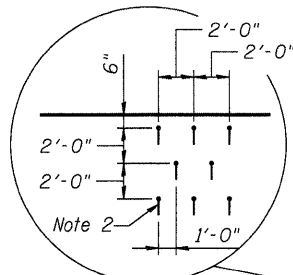
Abut. Seat cross-slope transition points 2'-5 1/2" (+)

Space bars and trim to avoid conflict with proposed utilities (typ.)

Exist. Building Facade (above street level)

4- #5 u 401(E) bars at 12" cts., Each End

Exist. Building Foundation



2- #4 s 401(E) bars See SW-36

6- #5 h 407(E) bars See SW-36

2- #5 v 406(E) bars each end

Structural Repair of Concrete (See SW-6)

Existing Streambed, As-surveyed Elev. = +619.25

Cofferdam (Location-3) See Erosion Control Plans for limits.

MINIMUM BAR LAP

#5 = 2'-11"
#7 = 4'-8"

Limits of Cofferdam Excavation 4'-0" typ.

4- #5 h 404(E) bars, Each End trim to fit over utility void

Elev. 635.55

64x2- #5 s 400(E) bars at 12" cts.

56- #5 u 400(E) bars at 12" cts.

Optional Constr. Joint, Each End

14x2- #5 h 402(E) bars (See Sections A-A and B-B)

Elev. 635.49

¢ & PGL Downer Place

Elev. 635.58

7- #5 h 403(E) bars, Each End, trim to fit.

Exist. Building Facade

Elev. 635.69

Precast End Panel

Exist. Building Foundation

Threaded Bar lengths (as called out on SW-43), Each End

8-Bar Splicers (E) for #5 bars** Lap with h 405(E) bars

10- #5 h 401(E) bars

Include concrete pour beneath Prop. Precast Concrete Panel as part of Structural Repair of Concrete, (Each End).

Existing Streambed As-surveyed Elev. = +619.25

8x3- #5 h 406(E) bars at 12" cts.

Exist. Rock Elev. +615.00

6-Bar Splicers (E) for #5 bars**

18x3- #7 p 400(E) bars (See Section)

Elev. 635.96

12-Bar Splicers (E) for #7 bars, Each End

Mandatory Construction Joint

Top of Prop. Arch Elev. = 630.50

16x3- #5 h 400(E) bars (See Section) (Note 4)

11-Bar Splicers (E) for #5 bars, (See Note 1)

Bott. of Arch (prop. and exist.) Elev. = 624.90

Chamfered face not shown for clarity

Elev. = 623.55

Mandatory Construction Joint

* Closure Pour

Match Existing Bridge Limits for Structural Repair of Concrete (Each End)

6- #5 u 402(E) bars, Each End, Bend to Fit at North End

Exist. Abutment is keyed into rock

64- #5 v 405(E) bars at 12" cts.

43- #5 n 400 bars at 18" cts. Front and Back Face (See Sections A-A and B-B)

42- #8 n 401 bars at 10" cts. Back Face at Exist. Buttress Locations only (See Sections A-A and B-B), 6 Buttress locations of 5'-0" width each assumed

Limits of Existing Arch

ELEVATION
(Looking East)

- Notes:
- Three h 400(E) bars terminate in Prop. Abut. Haunch and do not receive bar splicers (Each End).
 - 268- #4 d 400(E) bars at 24" cts. Each way, staggered, drill and Epoxy Grout with 5 1/2" min. embedment, entire structural concrete repair area.
 - See next Sheet for Sections A-A and B-B.
 - At N.E. corner, bend h 400(E) bars to lap with h 405(E) bars

HRGreen
Company Name: HRGreen
Project Contact: Michael G. Herching
Date Plotted: 7/26/2011 11:01:40 AM
File Name: 86090412-W-1201.dgn
Plot Driver: pcfsh
Pen Table: Struct 22x34.tbl

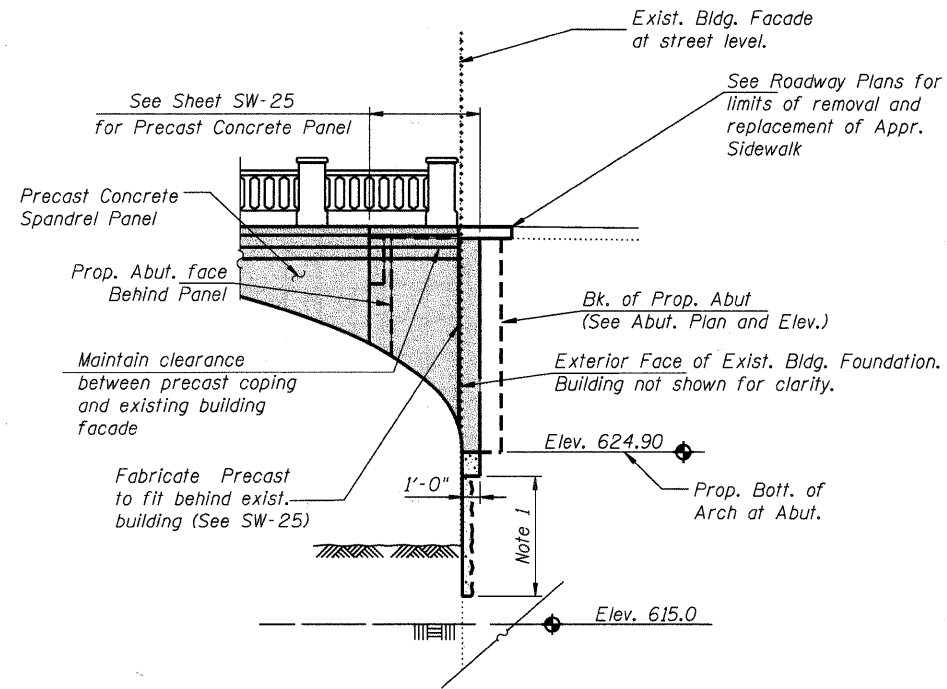
HRGreen.com
Illinois Professional Design Firm
#184-01322

USER NAME = whood	DESIGNED - JMW	REVISIONS -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISIONS -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISIONS -
	CHECKED -	REVISIONS -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

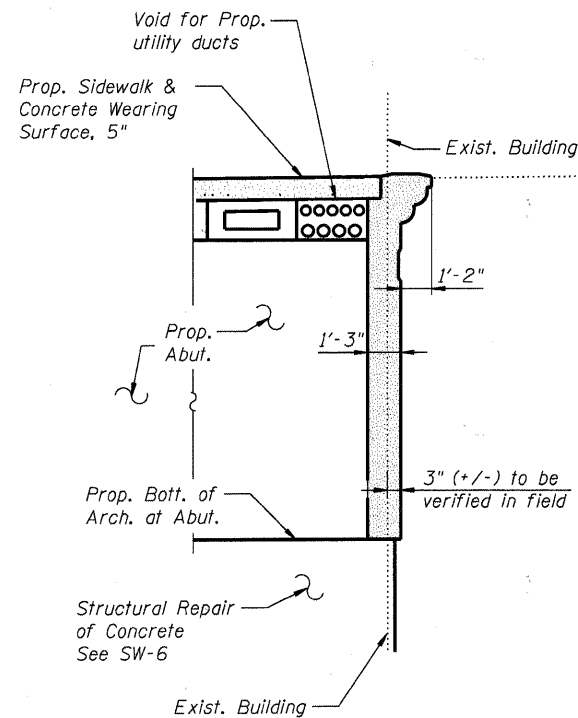
EAST ABUTMENT
STRUCTURE NO. 045-6006
SHEET NO. SW-34 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	86
CONTRACT NO. 63620				
ILLINOIS FED. AID PROJECT				

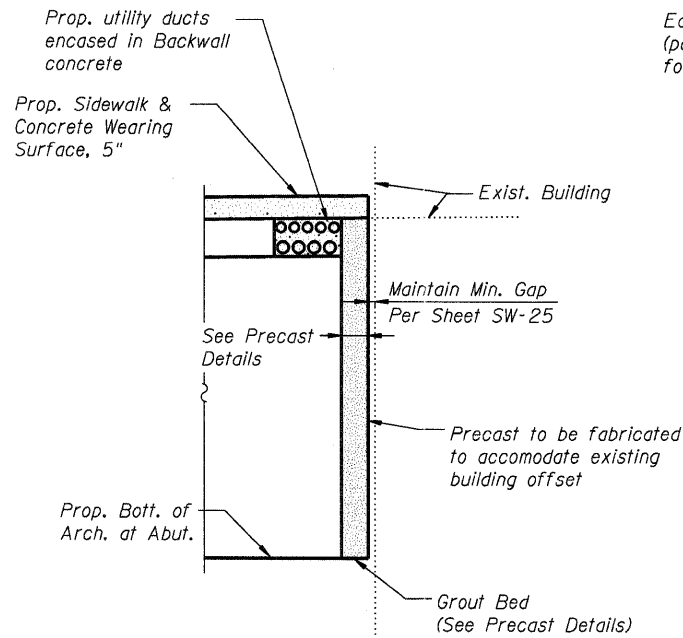


ELEVATION AT S.E. CORNER OF EAST ABUTMENT

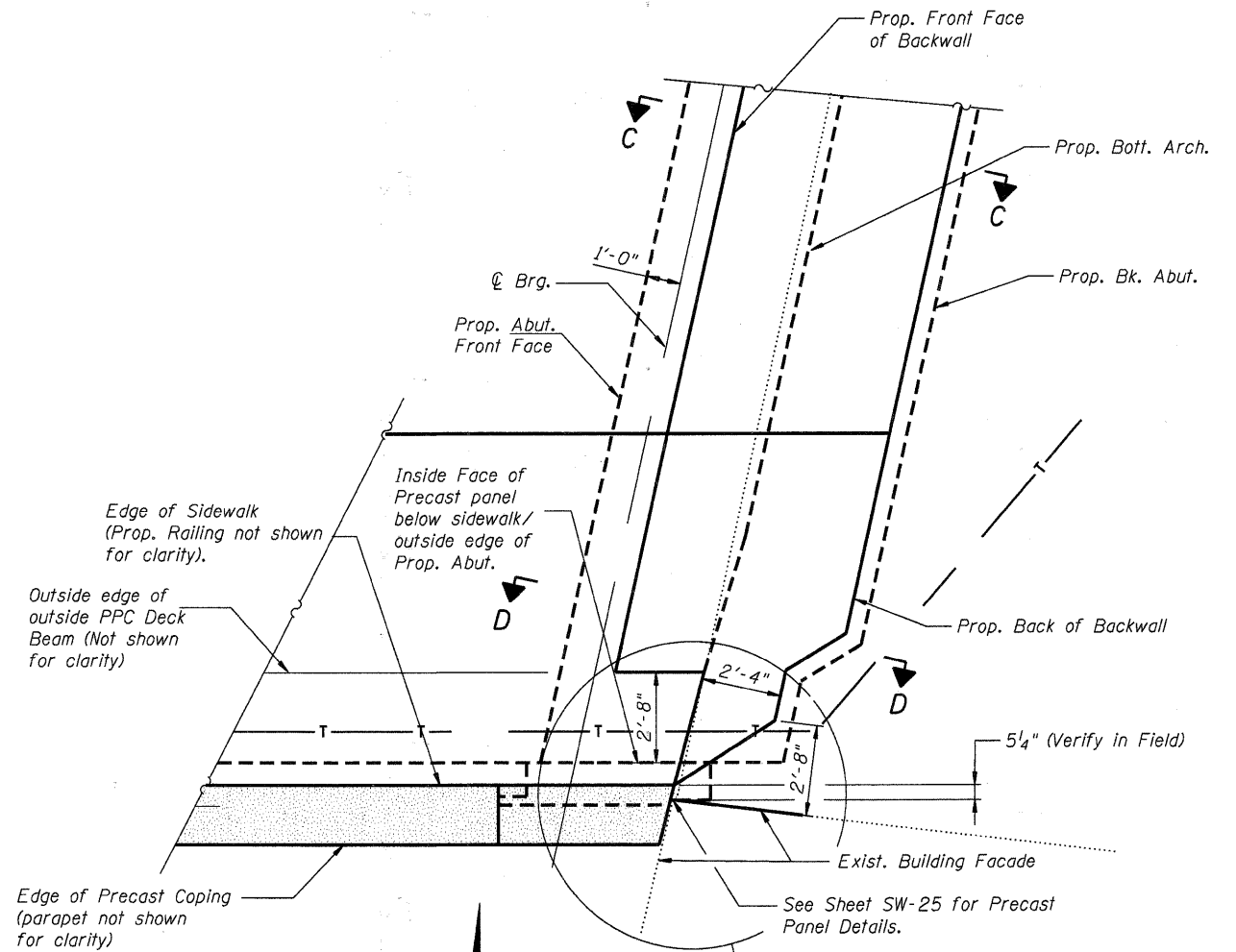
Parallel to Roadway ϕ



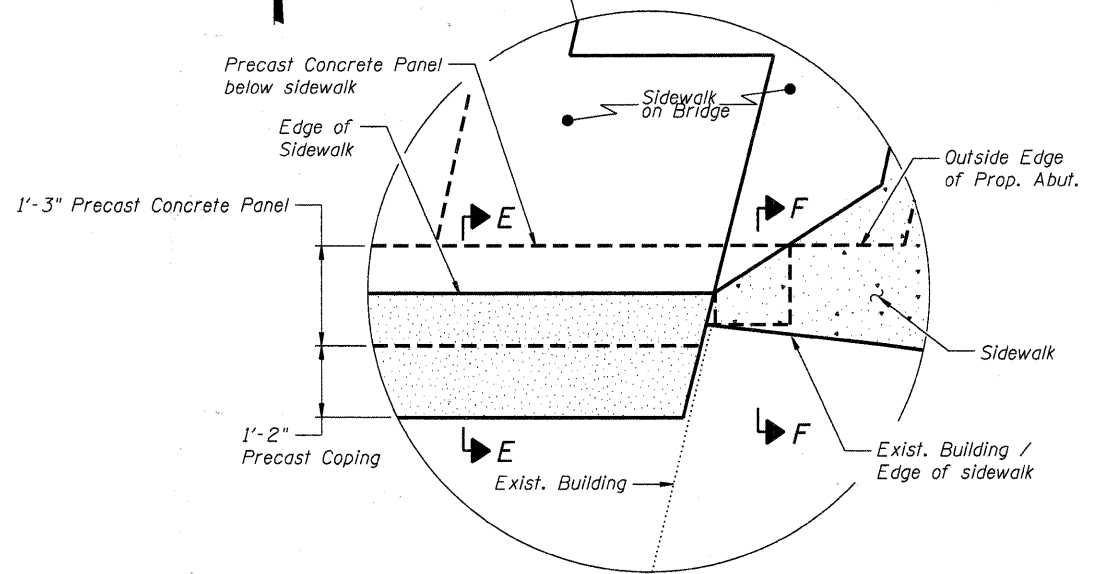
SECTION E-E



SECTION F-F



PLAN - S.E. CORNER EAST ABUTMENT



- Notes:
1. Structural Repair of Concrete, see Sheet SW-6.
 2. See previous sheet for Sections C-C and D-D.

HRGREEN
 COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Michael C. Harding
 CLIENT: City of Aurora
 DATE: 7/26/2011 10:00 AM
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 PLOT DRIVER: pdf.plt
 PEN TABLE: Struct 22x34.tbl



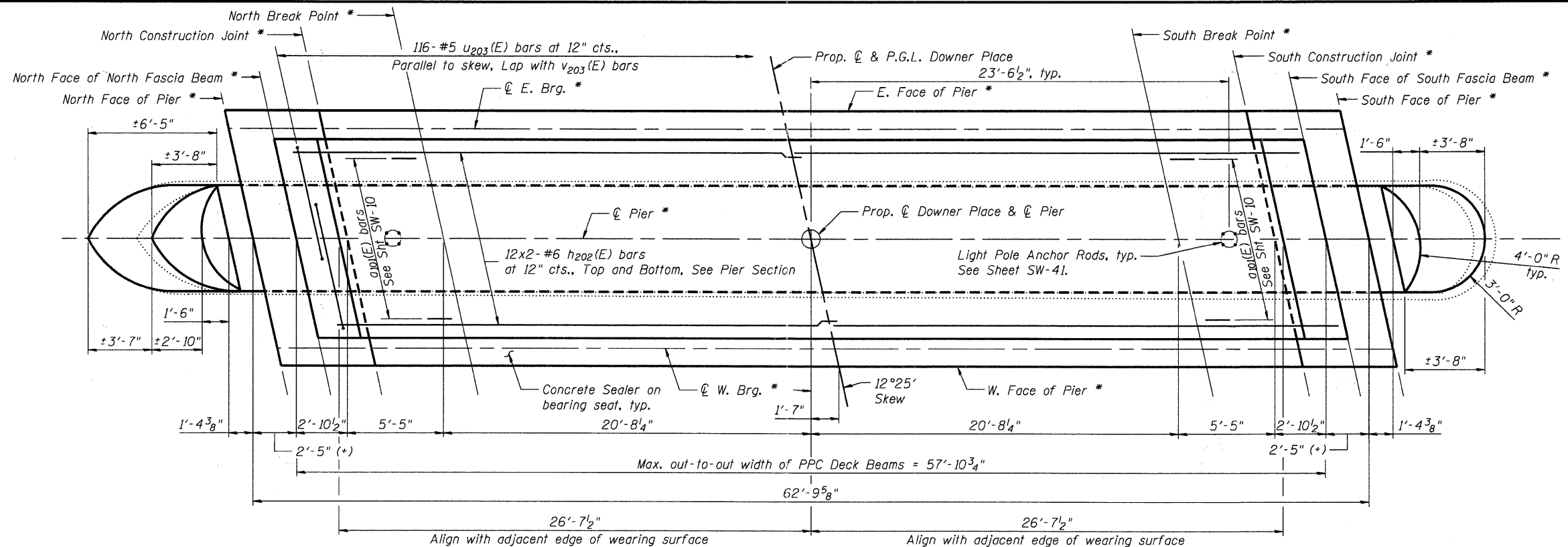
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PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

SOUTHEAST CORNER DETAILS
STRUCTURE NO. 045-6006

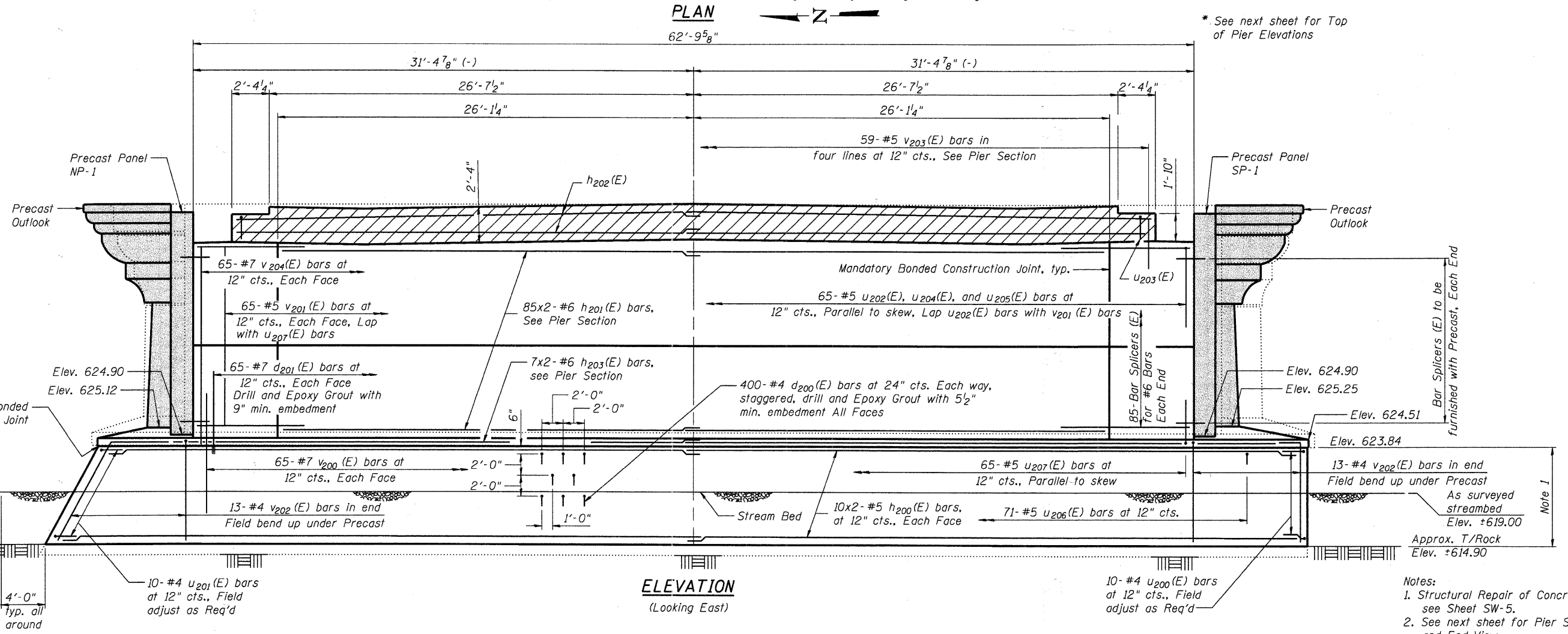
SHEET NO. SW-37 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	89
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



MINIMUM BAR LAP

#5	2'-11"
#6	3'-6"
#7	4'-1"



HRGreen
PROJECT CONTACT: Michael G. Harding
DATE PLOTTED: 7/26/2011 11:02:07 AM
FILE NAME: 8609012-W-Pier-01.dgn
PLOT DRIVER: pdfcut
PEN TABLE: Struct 22x34.tbl

HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = whood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

PIER 1
STRUCTURE NO. 045-6006
SHEET NO. SW-38 OF SW-48 SHEETS

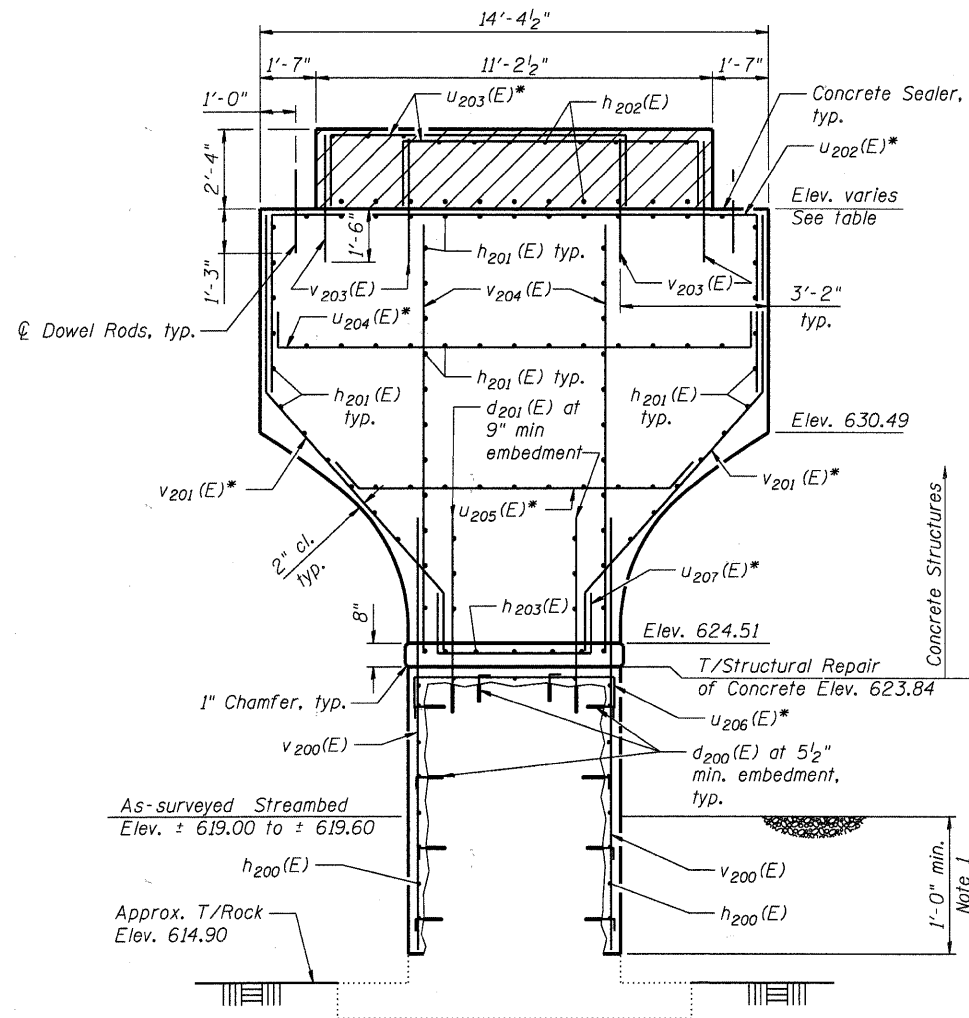
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	90
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	

Top of Pier Elevations (See previous sheet for locations)

	North Face of Pier 1	North Fascia Beam	North Const. Joint	North Break Point	℄ of Roadway	South Break Point	South Const. Joint	South Fascia Beam	South Face of Pier 1
W. Face of Pier 1	636.72	636.78	636.76	636.71	637.18	636.81	636.87	636.91	636.87
W. Brg. Pier 1	636.71	636.77	636.75	636.70	637.17	636.80	636.86	636.90	636.86
℄ Pier 1	636.65	636.70	636.68	636.63	637.10	636.73	636.79	636.83	636.79
E. Brg. Pier 1	636.58	636.63	636.61	636.57	637.04	636.66	636.73	636.77	636.72
E. Face of Pier 1	636.57	636.62	636.60	636.56	637.03	636.65	636.72	636.75	636.71

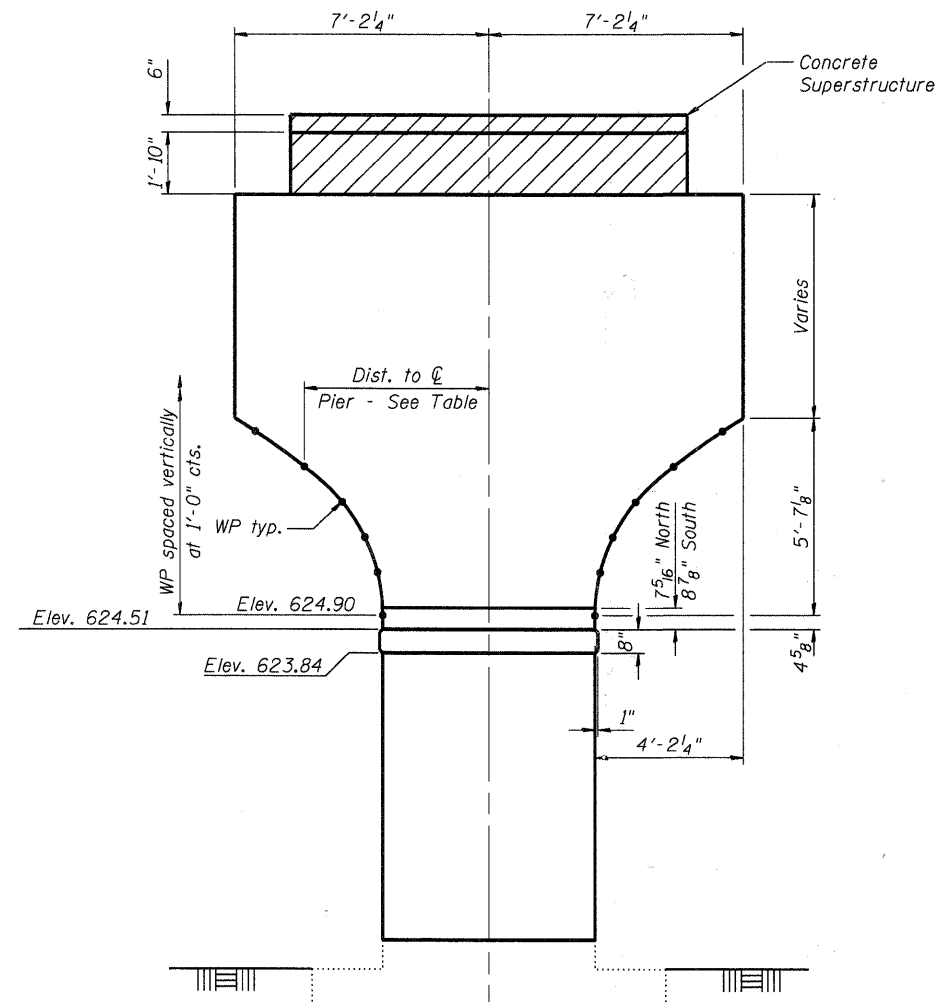
WP DIMENSIONS

WP Height from Elev. 624.90	Dist from Pier ℄
0'	3'-0"
1'-0"	3'-1 ³ / ₁₆ "
2'-0"	3'-4 ⁷ / ₈ "
3'-0"	3'-11 ³ / ₄ "
4'-0"	4'-11 ³ / ₈ "
5'-0"	6'-3 ³ / ₈ "



PIER SECTION

Horizontal Dimensions at Rt L's



END VIEW

Horizontal Dimensions at Rt L's
Precast Concrete Outlook and Fascia Panel not shown for clarity.

*Bars placed parallel to skew.

Notes:
1. Structural Repair of Concrete, See SW-5

COMPANY NAME: HRGreen
PROJECT CONTACT: [Name]
DATE PLOTTED: 7/26/2011 10:52:12 AM
FILE NAME: 8690412-W-Pier1-02.dgn
PLOT DRIVER: pdf,dht
PEN TABLE: Struct 22-34.tbl



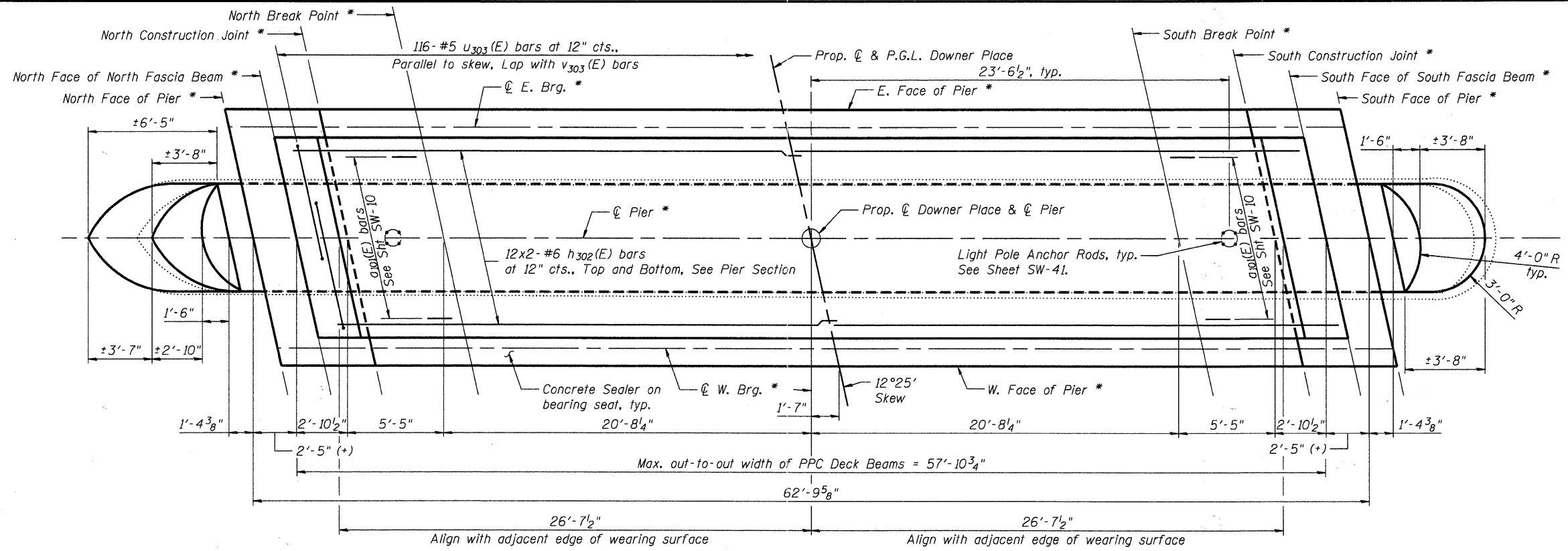
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PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

PIER I
STRUCTURE NO. 045-6006

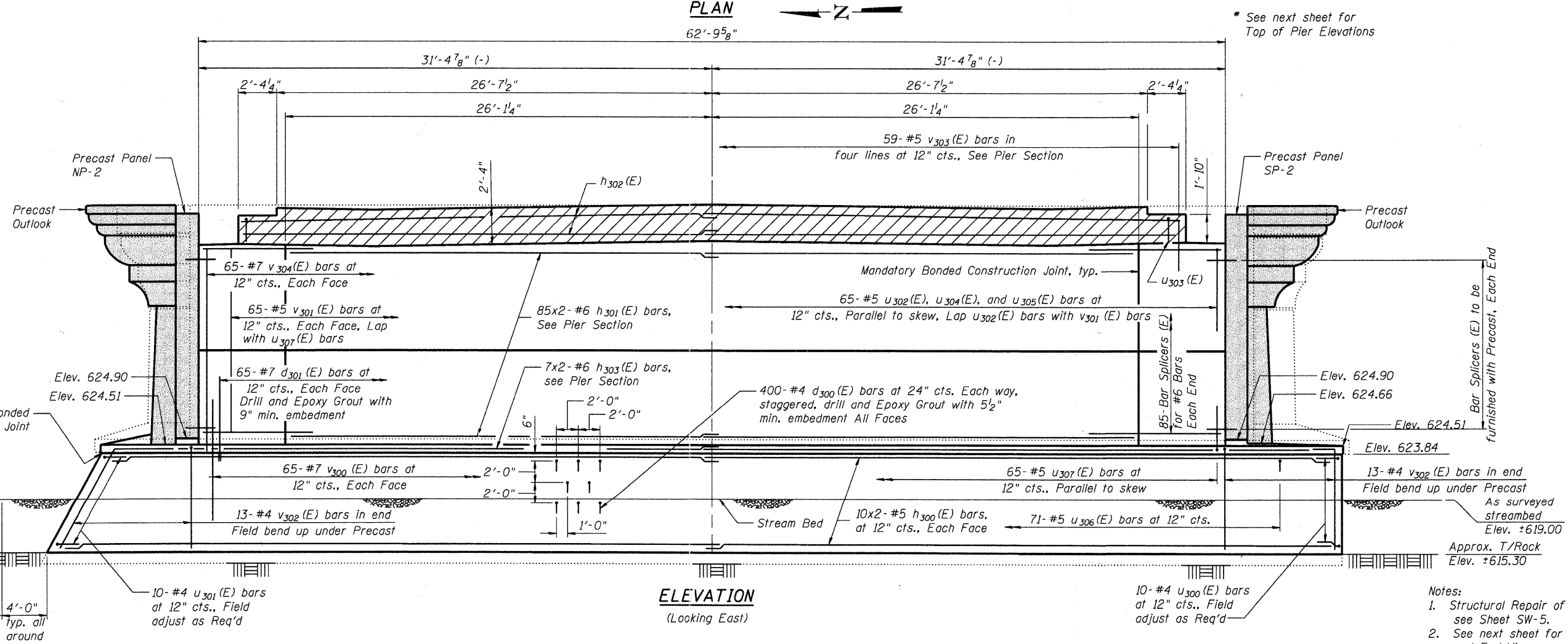
SHEET NO. SW-39 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	91
			CONTRACT NO. 63620	
[ILLINOIS] FED. AID PROJECT				



MINIMUM BAR LAP

#5	2'-11"
#6	3'-6"
#7	4'-1"



COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harshing
DATE PLOTTED: 7/26/2011 10:29:18 AM
FILE NAME: 86090412-W-Pier-2-01.dgn
PLOT DRIVER: default
PEN TABLE: Struct 22x34.tbl

HRGreen.com
Illinois Professional Design Firm
#194-001322

USER NAME = whood	DESIGNED - SSM	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

PIER II
STRUCTURE NO. 045-6006
SHEET NO. SW-40 OF SW-48 SHEETS

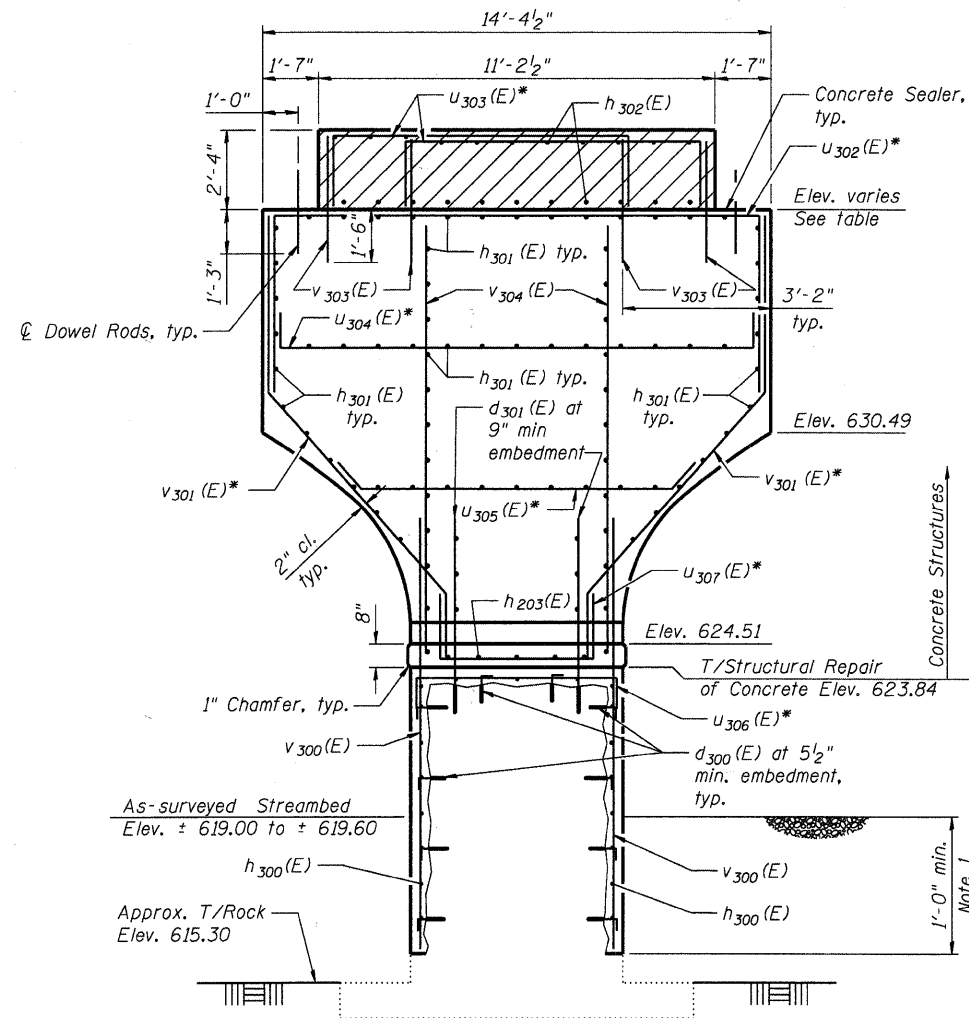
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	92
			CONTRACT NO. 63620	
[ILLINOIS] FED. AID PROJECT				

Top of Pier Elevations (See previous sheet for locations)

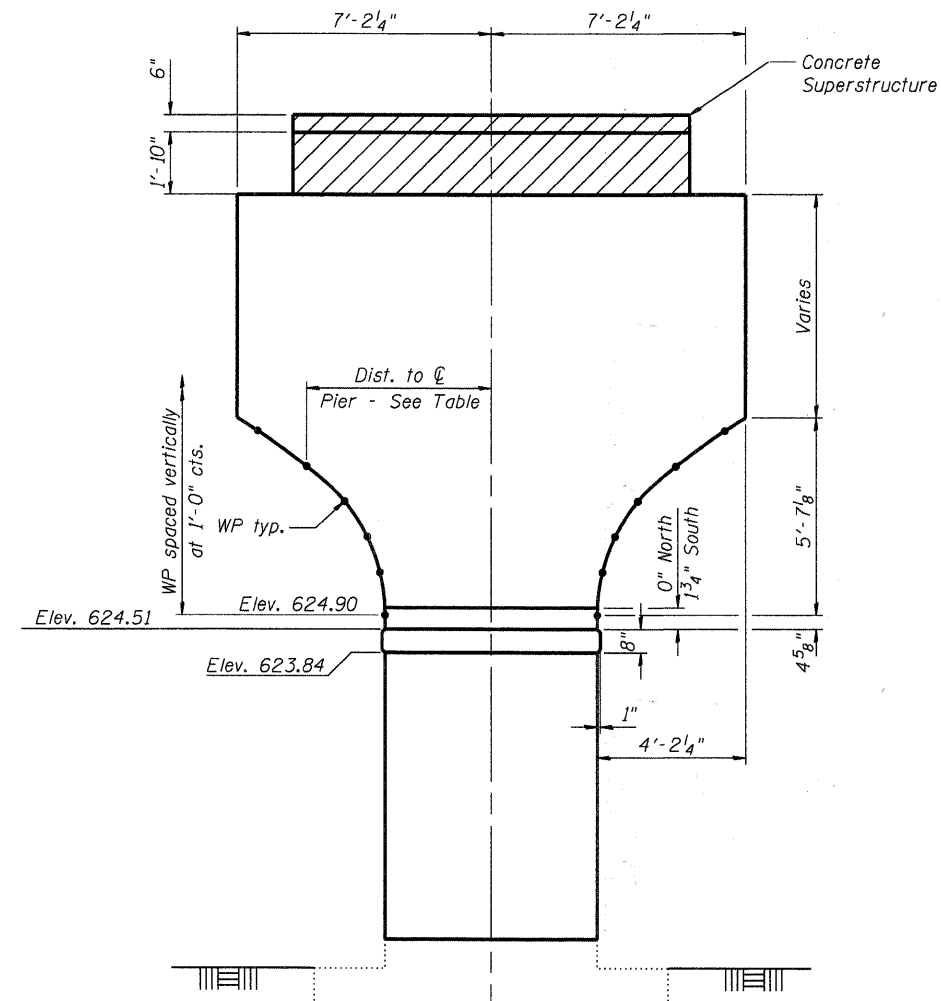
	North Face of Pier 2	North Fascia Beam	North Const. Joint	North Break Point	☉ of Roadway	South Break Point	South Const. Joint	South Fascia Beam	South Face of Pier 2
W. Face of Pier 2	636.12	636.18	636.16	636.11	636.58	636.21	636.27	636.31	636.26
W. Brg. Pier 2	636.11	636.16	636.14	636.10	636.57	636.19	636.26	636.30	636.25
☉ Pier 2	636.04	636.10	636.08	636.03	636.50	636.13	636.19	636.23	636.18
E. Brg. Pier 2	635.97	636.03	636.01	635.96	636.43	636.06	636.12	636.16	636.12
E. Face of Pier 2	635.96	636.02	636.00	635.95	636.42	636.05	636.11	636.15	636.11

WP DIMENSIONS

WP Height from Elev. 624.90	Dist from Pier ☉
0'	3'-0"
1'-0"	3'-1 ³ / ₁₆ "
2'-0"	3'-4 ⁷ / ₈ "
3'-0"	3'-11 ³ / ₄ "
4'-0"	4'-11 ³ / ₈ "
5'-0"	6'-3 ³ / ₈ "



PIER SECTION
Horizontal Dimensions at Rt L's



END VIEW
Horizontal Dimensions at Rt L's
Precast Concrete Outlook and Fascia Panel not shown for clarity.

Notes:
1. Structural Repair of Concrete, See SW-5

COMPANY NAME: HRGreen
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE: 07/26/2011 10:53:34 AM
FILE NAME: 86090272-W-Pier-2-02.dwg
PLOT DRIVER: pdfplot
PEN TABLE: Struct 22x34.tbl

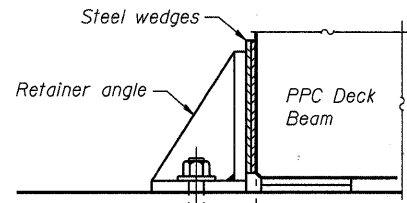


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PLOT DATE = 7/26/2011	DRAWN - WJH	REVISED -
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CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

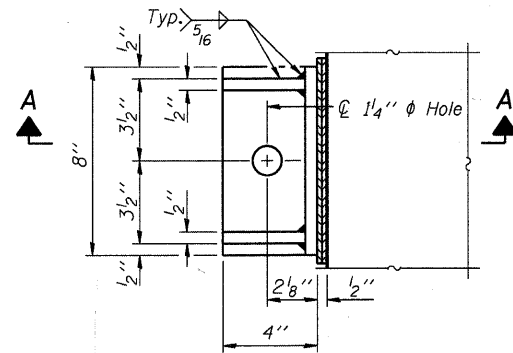
PIER II
STRUCTURE NO. 045-6006
SHEET NO. SW-41 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	93
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



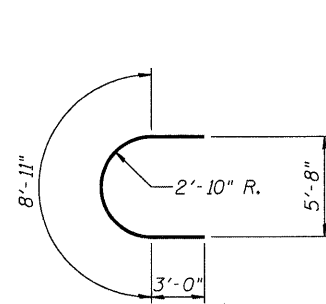
1" ϕ x 12" anchor bolt with 2 1/2" x 2 1/2" x 5/16" PL washer under nut. Holes in cap to be drilled after beams are in place.

SECTION A-A

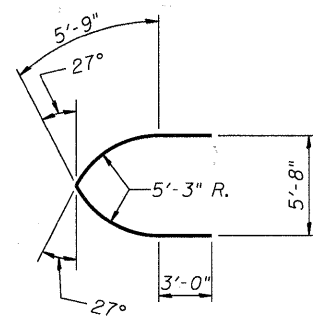


PLAN

Notes:
 Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams.
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.
 The side retainers shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
 Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.
 After the notch or concrete overlay are poured and cured, the steel wedges shall be removed.



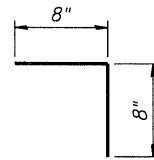
BAR u200(E) & u300(E)



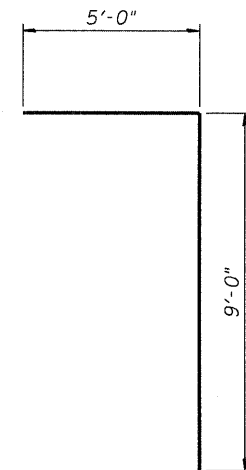
BAR u201(E) & u301(E)

U202(E) & U302(E)	14'-4"	U202(E) & U302(E)	3'-6"
U203(E) & U303(E)	9'-8"	U203(E) & U303(E)	1'-8"
U204(E) & U304(E)	14'-2"	U204(E) & U304(E)	1'-4"
U206(E) & U306(E)	5'-10"	U206(E) & U306(E)	1'-0"
U207(E) & U307(E)	4'-5"	U207(E) & U307(E)	1'-4"

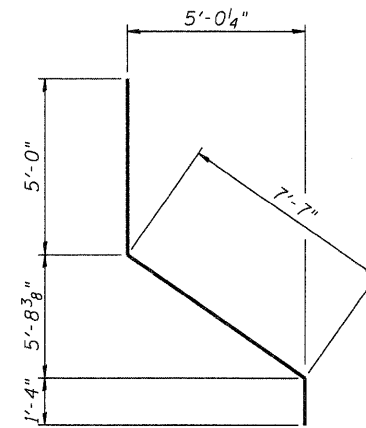
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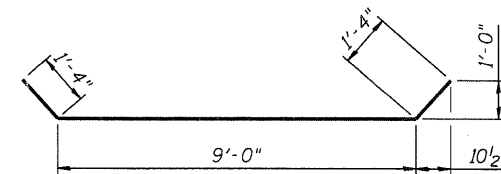
BAR d200(E) & d300(E)



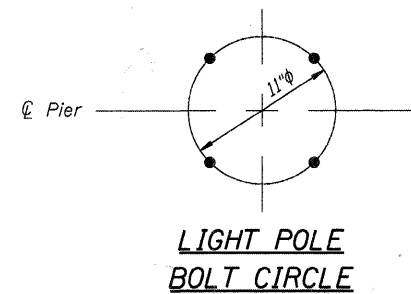
BAR v202(E) & v302(E)



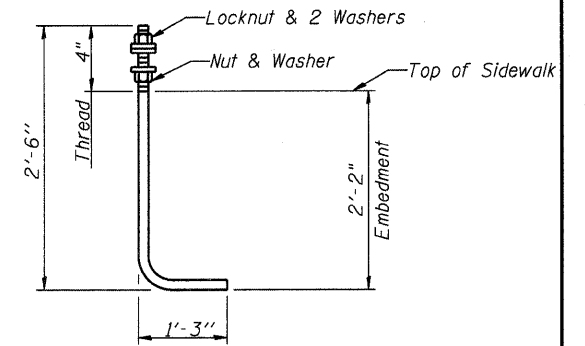
BAR v201(E) & v301(E)



BAR u205(E) & u305(E)



LIGHT POLE BOLT CIRCLE



ANCHOR ROD

3/4" Diameter, Galvanized (ASTM F 1554 Grade 105)
 See Lighting Plan for installation details.
 Cost included with Ornamental Light Unit, Complete

PIER 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d200 (E)	400	#4	1'- 4"	L
d201 (E)	130	#7	4'- 0"	—
h200 (E)	40	#5	39'- 6"	—
h201 (E)	170	#6	27'- 10"	—
h202 (E)	48	#6	30'- 7"	—
h203 (E)	14	#6	39'- 8"	—
U200 (E)	10	#4	14'- 11"	C
U201 (E)	10	#4	17'- 6"	C
U202 (E)	65	#5	21'- 4"	U
U203 (E)	116	#5	13'- 0"	U
U204 (E)	65	#5	16'- 10"	U
U205 (E)	65	#5	11'- 8"	U
U206 (E)	71	#5	7'- 10"	U
U207 (E)	65	#5	7'- 1"	U
V200 (E)	130	#7	13'- 0"	—
V201 (E)	130	#5	13'- 11"	—
V202 (E)	26	#4	14'- 0"	L
V203 (E)	236	#5	3'- 8"	—
V204 (E)	130	#7	12'- 3"	—
Cofferdam Excavation		Cu. Yd.	116.0	
Cofferdam (Location - 1)		Each	0.5	
Concrete Structures		Cu. Yd.	334.0	
Concrete Superstructure		Cu. Yd.	55.1	
Reinforcement Bars, Epoxy Coated		Pound	29,180	
Bar Splicers		Each	170	
Concrete Sealer		Sq. Ft.	200	

PIER 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d300 (E)	400	#4	1'- 4"	L
d301 (E)	130	#7	4'- 0"	—
h300 (E)	40	#5	39'- 6"	—
h301 (E)	170	#6	27'- 10"	—
h302 (E)	48	#6	30'- 7"	—
h303 (E)	14	#6	39'- 8"	—
U300 (E)	10	#4	14'- 11"	C
U301 (E)	10	#4	17'- 6"	C
U302 (E)	65	#5	21'- 4"	U
U303 (E)	116	#5	13'- 0"	U
U304 (E)	65	#5	16'- 10"	U
U305 (E)	65	#5	11'- 8"	U
U306 (E)	71	#5	7'- 10"	U
U307 (E)	65	#5	7'- 1"	U
V300 (E)	130	#7	13'- 0"	—
V301 (E)	130	#5	13'- 11"	—
V302 (E)	26	#4	13'- 0"	L
V303 (E)	236	#5	3'- 8"	—
V304 (E)	130	#7	12'- 3"	—
Cofferdam Excavation		Cu. Yd.	116.0	
Cofferdam (Location - 2)		Each	1	
Concrete Structures		Cu. Yd.	334.0	
Concrete Superstructure		Cu. Yd.	55.1	
Reinforcement Bars, Epoxy Coated		Pound	29,170	
Bar Splicers		Each	170	
Concrete Sealer		Sq. Ft.	200	

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 DATE: 06/09/22
 FILE NAME: 060922-4-04-101.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: Struct 22x34.tbl



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 PLOT DATE = 7/26/2011

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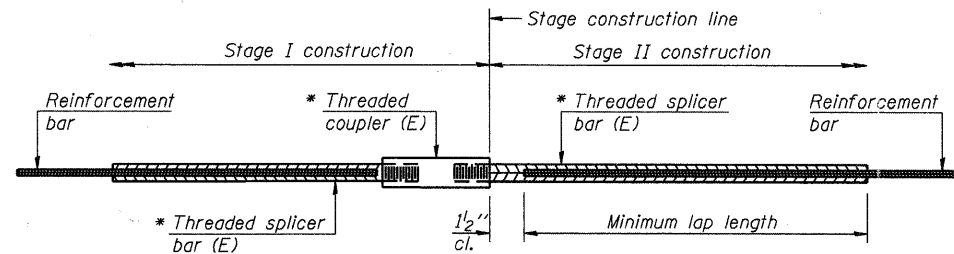
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CITY OF AURORA
 DOWNER PLACE OVER THE WEST BRANCH
 OF THE FOX RIVER

PIER DETAILS
 STRUCTURE NO. 045-6006

SHEET NO. SW-42 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	94
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

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

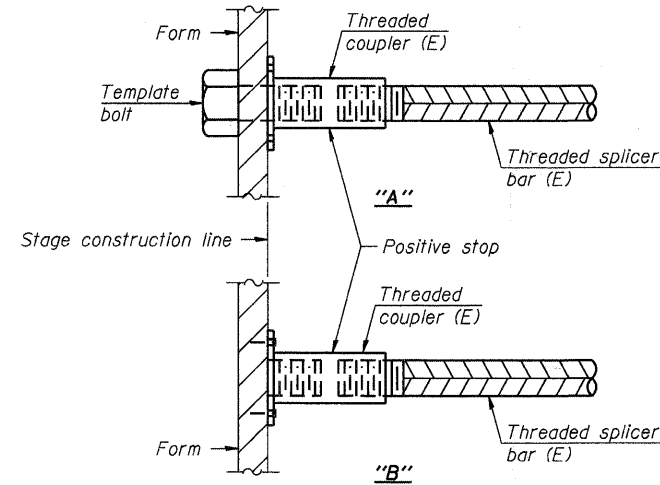
- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

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

Location	Bar size	No. assemblies required	Table for minimum lap length **
West Abutment	#5	18	4
West Abutment	#7	30	4, (6'-6")
East Abutment	#5	25	4
East Abutment	#7	24	4, (6'-6")
Pier 1	#6	170	4, (5'-2")
Pier 2	#6	170	4, (5'-2")
Conc. Wearing Surface	#4	258	3

** Lengths provided in () are for threaded splicer bar lengths to be used in closure pours.



INSTALLATION AND SETTING METHODS

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

NOTES

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

COMPANY NAME: HRGreen
 PROJECT CONTACT: Mark C. Harding
 CITY: Aurora
 DATE PLOTTED: 7/26/2011 11:02:34 AM
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 PLOT DRIVER: pdf.plt
 PEN TABLE: Struct 22x34.tbl



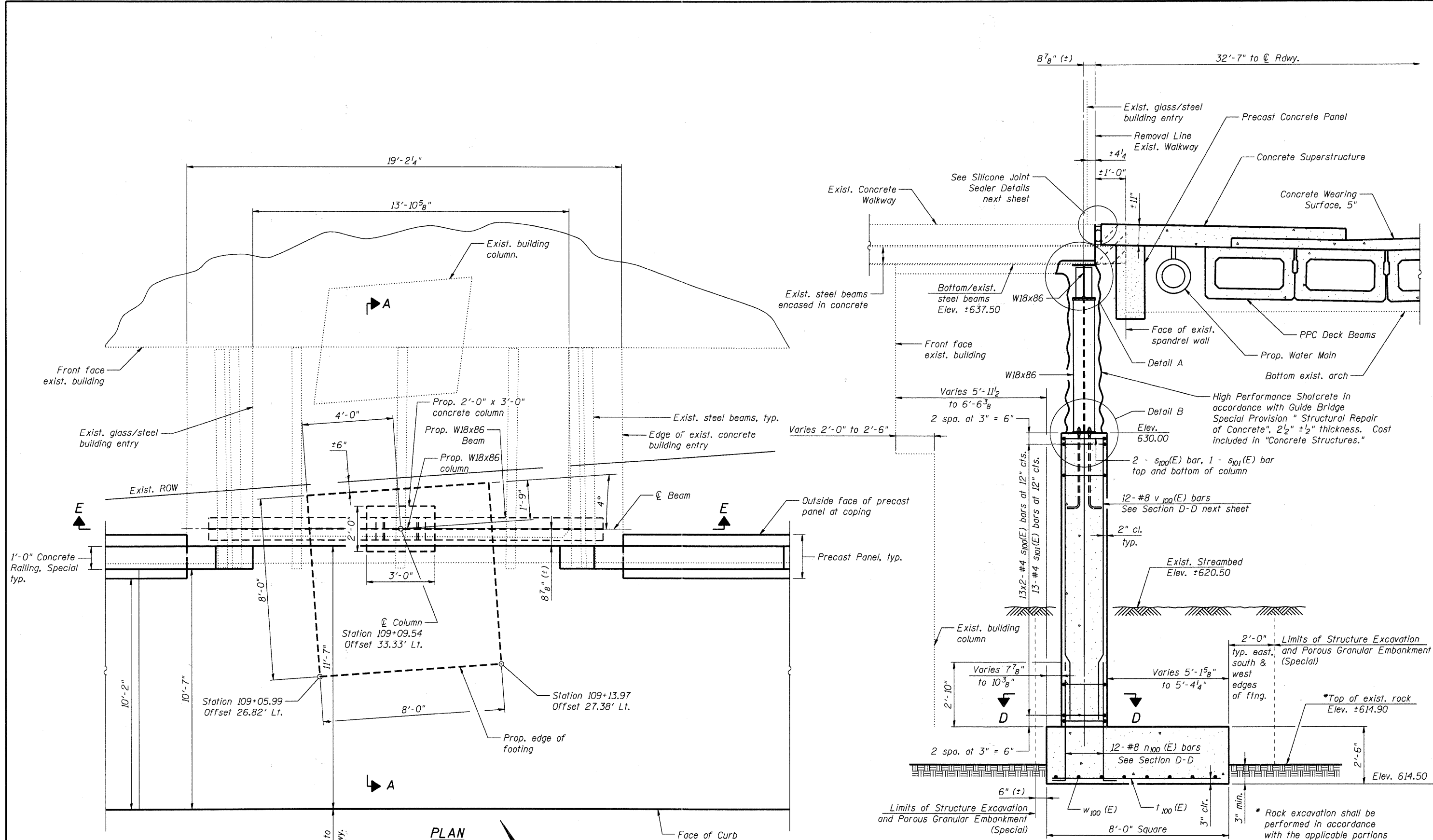
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**CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 045-6006**

SHEET NO. SW-43 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	95
CONTRACT NO. 63620				
[ILLINOIS] FED. AID PROJECT				



Notes:
1. See next sheet for Sections D-D and E-E.

SECTION A-A

* Rock excavation shall be performed in accordance with the applicable portions of Section 502 of the Standard Specifications. Cost included in "Structure Excavation".

HRGREEN
MICHAEL G. HERRING
7/26/2011 11:02:37 AM
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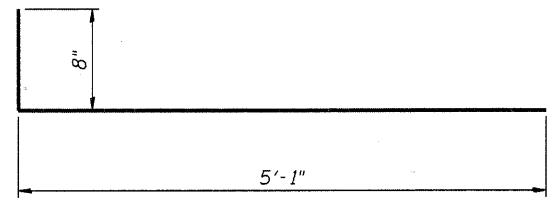
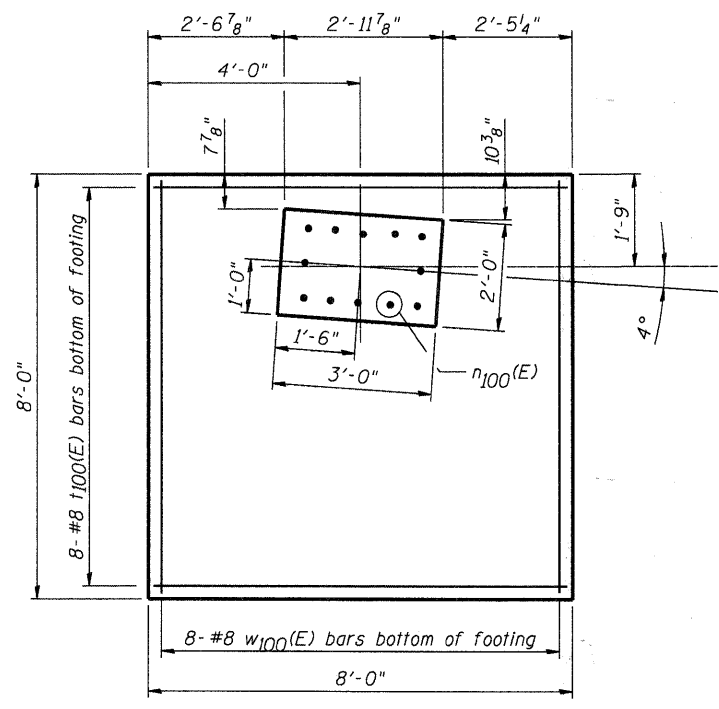
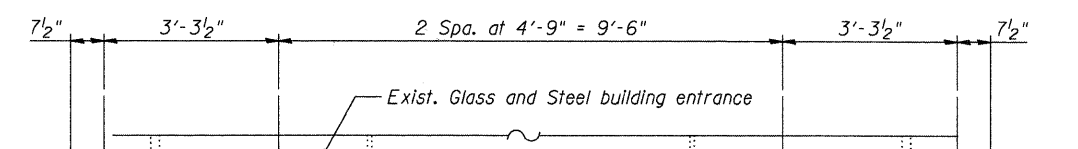


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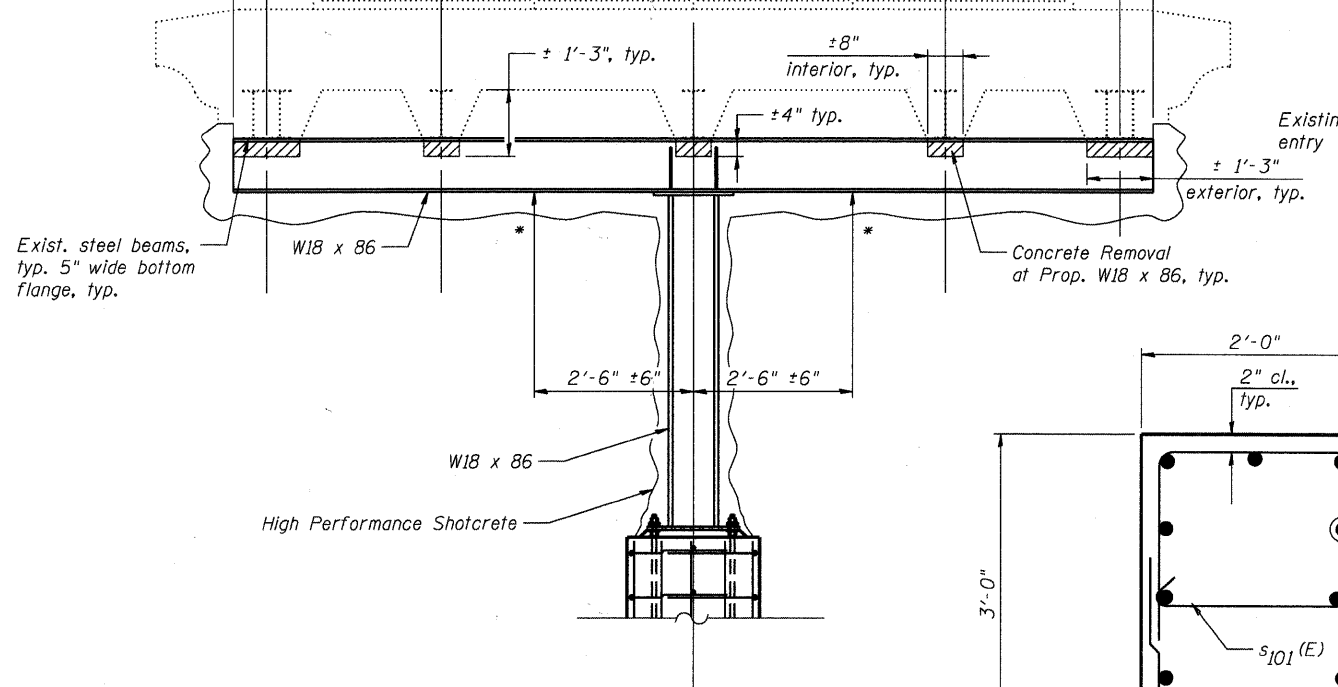
CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

31 W. DOWNER PLACE BUILDING ENTRY SUPPORT
STRUCTURE NO. 045-6006
SHEET NO. SW-44 OF SW-48 SHEETS

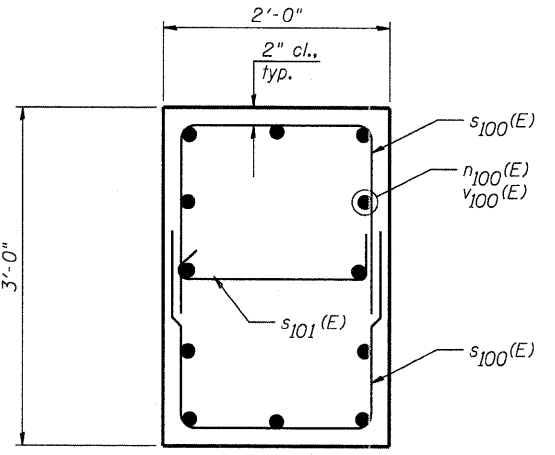
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	96
CONTRACT NO. 63620			[ILLINOIS] FED. AID PROJECT	



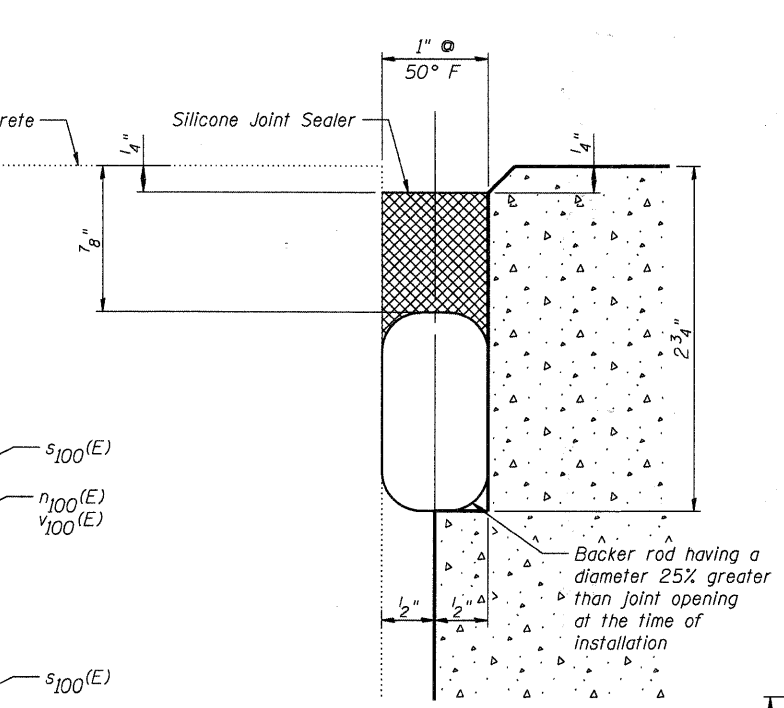
FOOTING PLAN



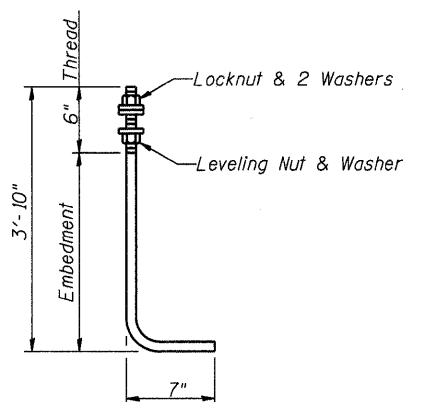
SECTION E-E
* Jacking Locations



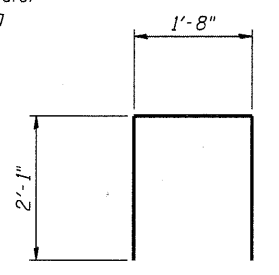
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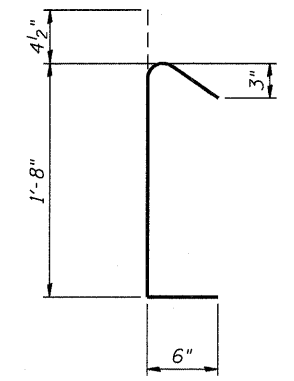
SILICONE JOINT SEALER



ANCHOR ROD
7/8" Diameter (ASTM F 1554 Grade 105) - 4 req'd
Cost Included in Concrete Structures



BAR s 100 (E)



BAR s 101 (E)

HRGREEN
PROJECT CONTACT: Michael G. Harding
DATE PLOTTED: 7/26/2011 11:02:41 AM
FILE NAME: 86090472-WestBranch.tbl
PLOT DRIVER: plot.plt
PEN TABLE: STRUCT 22x34.tbl



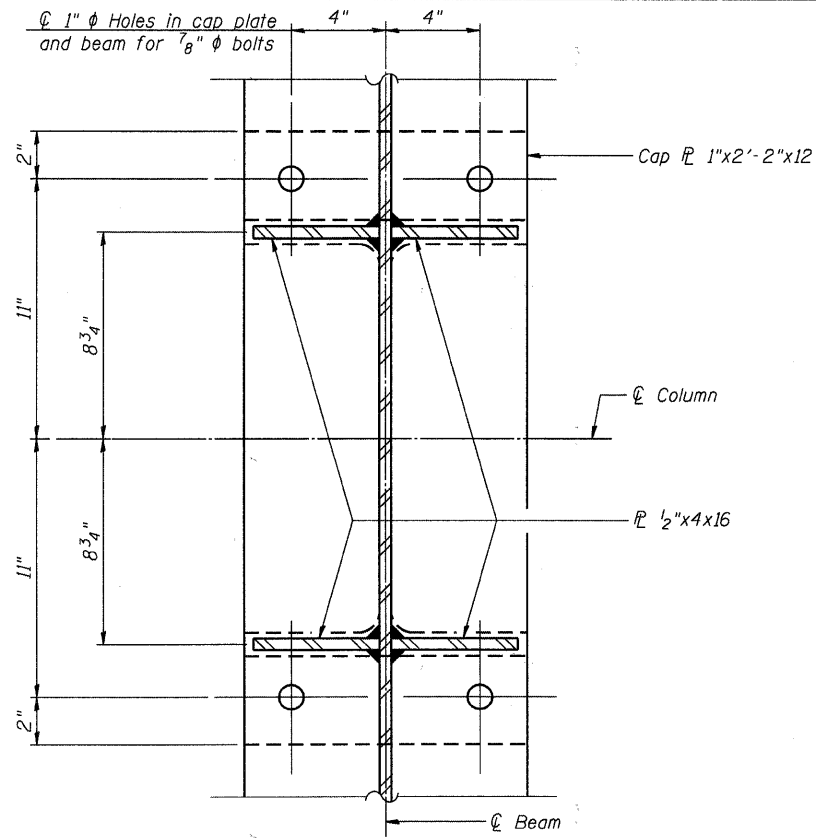
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CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

31 W. DOWNER PLACE BUILDING ENTRY SUPPORT
STRUCTURE NO. 045-6006

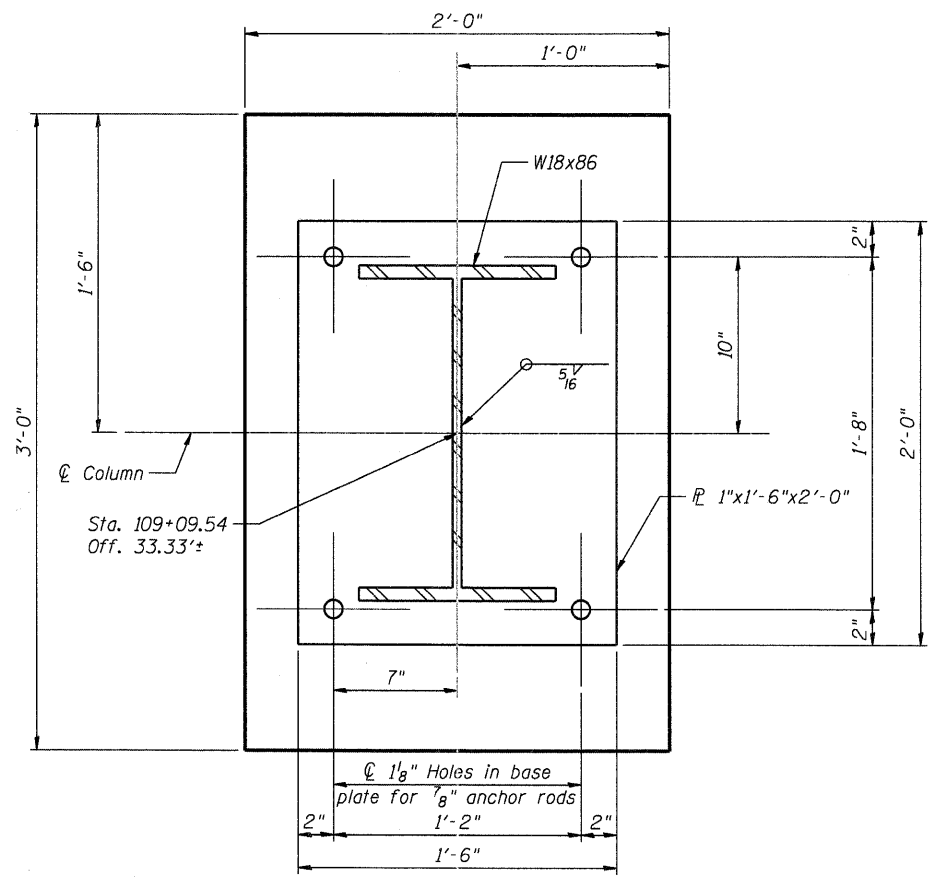
SHEET NO. SW-45 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 63620	
[ILLINOIS] FED. AID PROJECT				



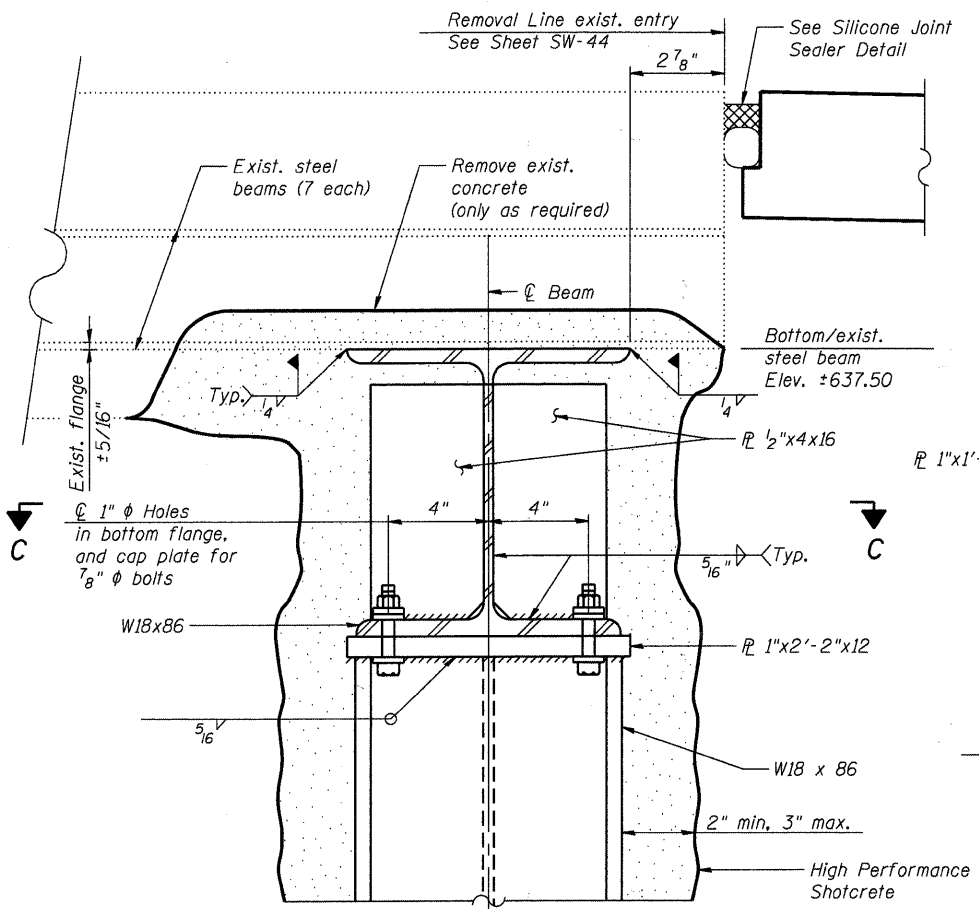
SECTION C-C

Shotcrete not shown for clarity

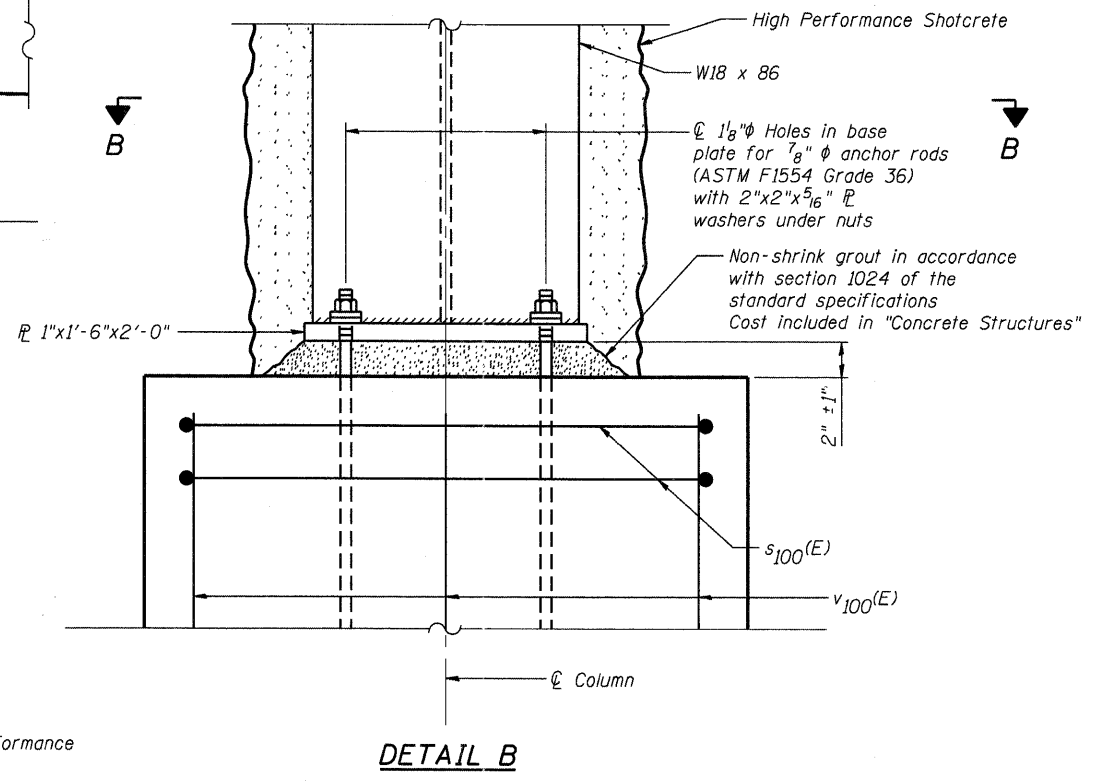


SECTION B-B

Shotcrete not shown for clarity
Concrete reinforcement not shown for clarity



DETAIL A



DETAIL B

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Install Underwater Structure Excavation Protection (See Erosion Control Plans).
2. Construct footing and column.
3. Remove concrete from underside of existing steel beams as indicated and attach W18 x 86 to existing beams.
4. Jack up (preload) existing structure at locations shown in Section E-E in accordance with the applicable portions of the Guide Bridge Special Provision "Jack and Remove Existing Bearings". Jacking load shall be 10,000 pounds at each location and the two locations shall be jacked up simultaneously. Observe condition of existing structure throughout preloading application. Cost for jacking included in "Furnishing and Erecting Structural Steel."
5. Bolt steel column assembly to W18 x 86.
6. Adjust nuts and install grout between top of concrete column and base plate of steel column assembly to bring top of HSS assembly into contact with W12 x 65
7. Remove jacks or reduce preload. Observe condition of existing structure throughout unloading operation.
8. Sawcut existing walkway slab and beams full depth at removal line shown on Section A-A.
9. Install Silicone Joint Sealer with Bridge Construction (See SW-10 and SW-11).

Notes:

1. Design stress field units for structural steel is $f_y = 50,000$ psi (AASHTO M270 Grade 50).
2. All structural steel, nuts and washers shall be galvanized according to AASHTO M111 or M232 (as applicable). H.S. Bolts shall be galvanized according to AASHTO M298, Class 50.
3. Prior to ordering any material, the Contractor shall verify in the field all heights, lengths, and shim thickness dimensions.
4. Cost of Structural Steel, H.S. Bolts, nuts and washers are included in Furnishing and Erecting Structural Steel.
5. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $7/8$ in. ϕ , holes $15/16$ in. ϕ , unless otherwise noted.
6. No field welding is permitted except as specified in the contract documents.
7. If a portion of the footing is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to the top of the footing.
8. High Performance Shotcrete shall be installed in accordance with the applicable portions of the Guide Bridge Special Provision "Structural Repair of Concrete." This work will be paid for as "Structural Repair of Concrete (Depth less than or Equal to 5")."

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$r_{100}(E)$	12	#8	5'-9"	J
$s_{100}(E)$	30	#4	5'-10"	□
$s_{101}(E)$	15	#4	2'-6 1/2"	L
$t_{100}(E)$	8	#8	7'-8"	—
$v_{100}(E)$	12	#8	12'-8"	—
$w_{100}(E)$	8	#8	7'-8"	—
Structure Excavation		Cu. Yd.	28.0	
Concrete Structures		Cu. Yd.	8.8	
Furnishing and Erecting Structural Steel		Pound	2,300	
Reinforcement Bars, Epoxy Coated		Pound	1,060	
Porous Granular Embankment (Special)		Cu. Yd.	22.0	
Structural Repair of Concrete (Depth Equal to or Less than 5")		Sq. Ft.	190	

COMPANY NAME: HRGreen
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
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 PLOT NAME: 07-00264-00-01.dwg
 PLOT DRIVER: default
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CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

31 W. DOWNER PLACE BUILDING ENTRY SUPPORT
STRUCTURE NO. 045-6006

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	98
			CONTRACT NO. 63620	
ILLINOIS FED. AID PROJECT				

TEST PIT LOGS

WEST BRIDGE DOWNERS PLACE OVER FOX RIVER

Test Pit # 1

Location: Near West Pier (see location plan)
0 - 6" - Asphalt Pavement
6" - 9" - Sand Layer (3" Thick)
9" - 21" - Cemented Cobbles & Gravel (12")
21" - 71" - FILL made with Clay, pebbles etc
At 73" or 6'-1" TOP OF CONCRETE ARCH

Test Pit # 2

Location: Just East of East Pier (see location plan)
0-7" - Asphalt Pavement
7"-10" Asphalt treated Gravel Layer (3" Thick)
10" - 49" - FILL made with Clay & Cobbles
At 49" or 4' - 1" TOP OF CONCRETE ARCH

TEST PIT LOGS

WEST BRIDGE DOWNERS PLACE OVER FOX RIVER

Test Pit # 3

Location: Just West of East Pier (see location plan)
0 - 6" - Asphalt Pavement
6" - 8" - Asphalt Treated Gravel - (2" Thick)
8" - 74" - FILL made with Clay, rubble, stones etc
At 74" or 6'-2" TOP OF CONCRETE ARCH

Test Pit # 4

Location: Half way between East abutment & East Pier (see location plan)
0-7" - Asphalt Pavement
7"-10" Asphalt treated Gravel Layer (3" Thick)
10" - 26" - FILL made with Clay & Cobbles, rubble etc
At 26" or 2' - 2" TOP OF CONCRETE ARCH

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Michael G. Harding
 CLIENT: City of Aurora
 FILE NAME: 07-00264-00-BR
 PLOT DRIVER: pdfplot
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PLOT DATE = 7/26/2011	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH
OF THE FOX RIVER

BORING LOGS
STRUCTURE NO. 045-6006

SHEET NO. SW-48 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	100
CONTRACT NO. 63620			ILLINOIS FED. AID PROJECT	