

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: March 17, 2015
Date of Addendum: March 12, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
008	32-0046-028-A	RCB CULVERT REPLACEMENT - TWIN BOX	EMMET	BRFN-004-6(28)--39-32 BRFN-004-6(29)--39-32	17MAR008.A01

Make the following change to the PROPOSAL DETAILS, Page 2:

Change the Site Number CONTRACT, WORKING DAYS as follows:

From: 5 WORKING DAYS
To: 20 WORKING DAYS

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Delete Proposal Line No. 0120 2101-0850001 CLEARING AND GRUBBING; 4.4000 ACRE

Delete Proposal Line No. 0710 2101-0850001 CLEARING AND GRUBBING; 4.7000 ACRE

If the above changes are not made, they will be made as shown here.

Make the following changes to plans for BRFN-4-6(28)--39-32 and BRFN-4-6(29)--39-32; comments would be the same for both projects:

1. Provide the following note in the bid item reference for the "Flowable Mortar" bid item on Sheet 2 (28) and Sheet 2 (29):
Alternate concrete mixes may substituted for the "Flowable Mortar" as approved by the Engineer at no additional cost to the state.
2. Per AREMA 2.3.2 and 16.6.1, dry casting is allowed for precast culverts.
3. Sheet 6 (29) and Sheet 10 (28):
Only the top 1 ft of the granular blanket is required to meet the 3/8 in aggregate requirement.
Granular material size for the bottom 1 ft of the granular blanket would be based on the conditions that are encountered during excavation. Material would need to be certified and would be paid for as Granular Material.
4. Sheet 9 (29) and Sheet 12 (28):

The 24" RCP section may be cast into the precast barrel using a secondary pour, so modifications to the precasters forms are not required. The RCP pipe shall be cast in the precasters plant before shipment of the precast sections to the construction site.

5. The 24" RCP pipe shall meet the Iowa DOT requirements for pipe class as shown in the plans. Plans were review and approved by the UPRR.

Minutes for Emmet County, BRFN-004-6(28,29)--39-32 Pre-Bid Meeting, 2- RCB Culvert Replacements – Twin Box Under Iowa 4 and the adjacent UP Railroad

- Letting Date is March 17, 2015. Bids must be received by 10:00 AM via BIDX.
- Requests for bidding documents must be submitted by noon the day before the letting, March 16, 2015.
- The current bid holders for this project are:
Dixon Construction Co., Godbersen-Smith Construction Co. & Subsid., Graves Construction Co., Inc. and Midwest Contracting, LLC., Reilly Construction Co., Inc., and Rognes Bros. Excavating, inc.
- Proposal Guaranty is \$100,000.00.
- Any questions that come up that cannot be answered by the contract documents will be resolved by an addendum.
- The Contract Periods on page 2 of the Proposal Details show the Contract site number Late Start Date of August 3, 2015 with 5 working days for work that does not require the detour. Site Number 01 has a Late Start Date of August 3, 2015 and 56 calendar days with I/D provisions for work that requires the detour. The I/D rate is \$5000/closure day. Site number 02 is for the 90 hour closure of the UP Railroad, the Liquidated Damages rate is \$1,600/hour. Site Number 03 is a Time Bid Site for the number of RR Flaggers the contractor desires. This contract period allows for construction during the 2015 construction season with completion by the beginning of October of 2015.
- Presentation of Project by designer/district.
- Questions and Answers from the pre-bid meeting are as follows:
 - 1) Are there restrictions on the size of box sections? Minimum is 4' but they can be longer
 - 2) The flume could be done outside the critical closure activity; can more working days be added to allow this? Yes refer to the addendum for changes.
 - 3) The backfill between the sections is flowable mortar which needs time to stabilize. Can

this be changed to allow something that sets earlier? Yes refer to the addendum for changes.

- 4) Does the Iowa DOT anticipate any over excavation? Any over excavation would be handled by an Extra Work Order and any EWO should address the time component as well as the money/cost component.
- 5) The current requirements for review allow 30 days for DOT review and 30 additional days for RR review, can any of that time be concurrent? Those requirements are correct. The RR review would only apply to the RR portion. The Iowa DOT will strive to process our review as quickly as possible.
- 6) On plan sheet J.1, was the 2 weeks' notice supposed to be 6 weeks? No, the plans were not changed.
- 7) Does the UPRR think they will have the RR back open the day following the closure. Yes, that is the plan.
- 8) Comment On (28) sheet D.2 where plan states UAC, the Revetment goes right up to the old structure that stays in place.
- 9) Are the RR boxes air entrained vs. dry casting? Refer to addendum note above that states, Per AREMA 2.3.2 and 16.6.1, dry casting is allowed for precast culverts.
- 10) Do the steel reinforcing shop drawings need an accompanying PE signature if they follow the existing steel calculations. Yes, per article 12008.04 of DS-12008.
- 11) There seems to be more RR boxes then necessary for being under the RR tracks. All the box sections in the RR Right of Way are designed to the RR specifications in case the tracks are ever relocated.
- 12) Does the flume get tied into the Toe wall and bell joint? No.
- 13) What are the specifications for the working blanket and top layer of bedding? What are the reasons for the 2' over excavation and how is it paid for? What is the gradation of the working blanket? Refer to addendum note 3 above.
- 14) Who is doing the inspection? Iowa DOT is doing all inspection.
- 15) What class is the 24" RCP and can it be grouted in afterwards rather than cast in place as shown on plan sheets 9 and 12 of both plans? Refer to addendum note 4 and 5 above.
- 16) When do the trains run? One train on Monday and Thursday, no trains on Tuesday, Wednesday and Friday. Contact the RR for further information that affects the A+B RR flaggers.
- 17) Are there any limitations for access for delivery of products? None, there should be no problems.

The presentation and participant sign in sheet are attached to this addendum.

Pre-Bid sign in sheet
 Emmet County, BRFN-004-6(28,29)--39-32
 2- RCB Culvert Replacements – Twin Box
 Under Iowa 4 and the adjacent UP Railroad

NAME	COMPANY	ADDRESS	PHONE & FAX #
Krandel Jack	Iowa DOT Contracts	800 Lincoln Way, Ames IA 50010	515-239-1546 515-239-1325
CURTIS CARTER	IOWA DOT BRIDGE	800 LINCOLN WAY, AMES IA 50010	515-233-7822
Kim Triggs	GODBERGEN- Smith Const Co	Box 33 IDA GROVE, IA 51445	712-364- 3388
MARK FREIER	"	"	(712)-830-9118
Darwin Bishop	IDOT District #3	2800 Gordon Drive Sioux City, IA 51102	(712) 276-1451
STEVEN McELMEEL	IDOT - D3 CHEROKEE CONST. OFFICE	1833 INDUSTRIAL ROAD NORTH CHEROKEE, IA	712-225-5786
Dennis Drews	Corelab Structures	802 Allied Road Lafayette, WE 68123	402-291-0733

Pre-Bid sign in sheet
 Emmet County, BRFN-004-6(28,29)--39-32
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 Under Iowa 4 and the adjacent UP Railroad

NAME	COMPANY	ADDRESS	PHONE & FAX #
Bill Otto	Midwest Contracting LLC	Marshall Mn	507-537-1004 507-537-0621 F.
Kevin Dingeman	Cretex	525 S. 11th St. WDM, IA 50265	515-223-8761 515-223-8737
Todd Keppler	Cretex	525 S. 11th St WDM, IA 50265	515-559-6867 515-223-8737
PAUL FARMER	DOT		515-239-1863
Shane Tynkowitz	DOT	2800 Garden Dr Sioux City IA 51102	712-274-5834
Steve Fisher	DOT OBS		
MATT BOHLEN	PETERSON CONTRACTORS INC.	104 BLACKHAWK ST. REINBECK, IA 50669	319-345-2713 319-345-2991

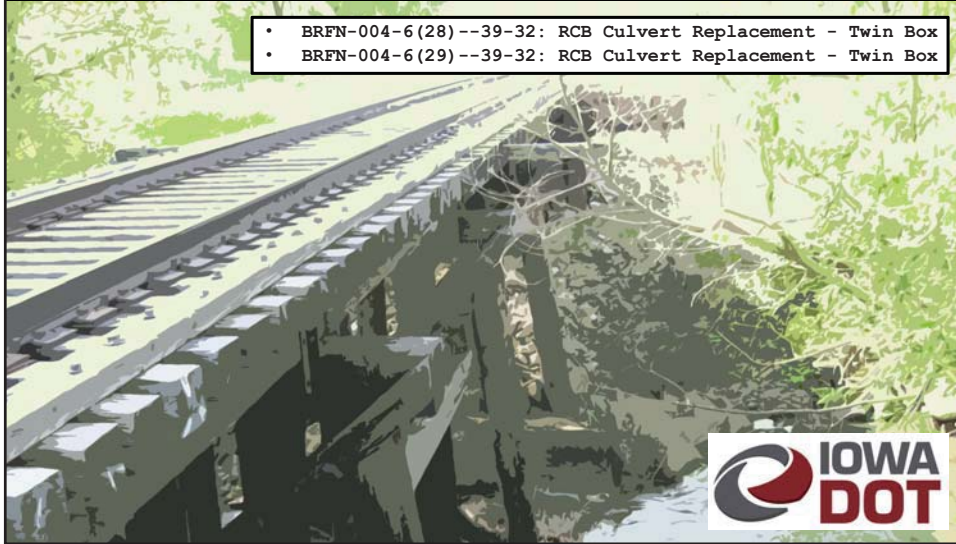
Pre-Bid sign in sheet
 Emmet County, BRFN-004-6(28,29)--39-32
 2- RCB Culvert Replacements – Twin Box
 Under Iowa 4 and the adjacent UP Railroad

NAME	COMPANY	ADDRESS	PHONE & FAX #
DAN GRAVES	GRAVES CONST CO. INC.	Box 1417 Spencer, IA 51301	712-262-2403 712-262-2405
Dennis Pinsol	DOT	Cherokee	712-225- 5786

EMMET COUNTY PROPOSAL 32-0046-028-A STRUCTURAL DETAIL REVIEW

Accelerated Culvert Construction Pre-Bid Meeting
March 4, 2015

- BRFN-004-6(28)--39-32: RCB Culvert Replacement - Twin Box
- BRFN-004-6(29)--39-32: RCB Culvert Replacement - Twin Box



PROJECT OVERVIEW

- Tied Project - concurrent accelerated construction at 2 sites
 - RCB Culvert - IA 4 over Drainage Ditch #94
 - RCB Culvert - IA 4 over Drainage Ditch #2
 - Project sites **separated by approximately 1 mile**
- Culverts designed with precast box sections to facilitate accelerated construction
- New culverts will extend below Highway and Railroad
 - DOT standard design barrel sections **below highway**
 - Special non-standard barrel sections **below railroad**





GENERAL SCOPE OF WORK

TYPICAL EACH SITE:

- Remove existing highway slab bridge
- Remove existing RR trestle bridge
- Grade channel and install granular blanket/bedding
- Install precast box culvert inlet and barrel sections (dual-single)
- Place and compact backfill
- Grade channel and place RCP pipe and inlet (tie in to culvert)
- Place RR Subbase (ballast, ties and rail by UPRR)
- Provide crane and operator for use by RR for rail reconstruction
- Place highway subbase and pavement
- Final site preparation (finish grading, seeding, striping, etc.)

GENERAL SCOPE OF WORK

SPECIFIC TO DESIGN 115 (28):

- Install **precast outlet** end section with scour floor
- Additional temporary shoring requirements?? (by contractor)

SPECIFIC TO DESIGN 215 (29):

- Install **cast-in-place outlet** end section with flume basin
- Construction of cast-in-place end section will require **temporary shoring** (approved DOT design included in plans, specific to flume construction)
- Additional temporary shoring requirements?? (by contractor)

SCHEDULE – RR CLOSURE

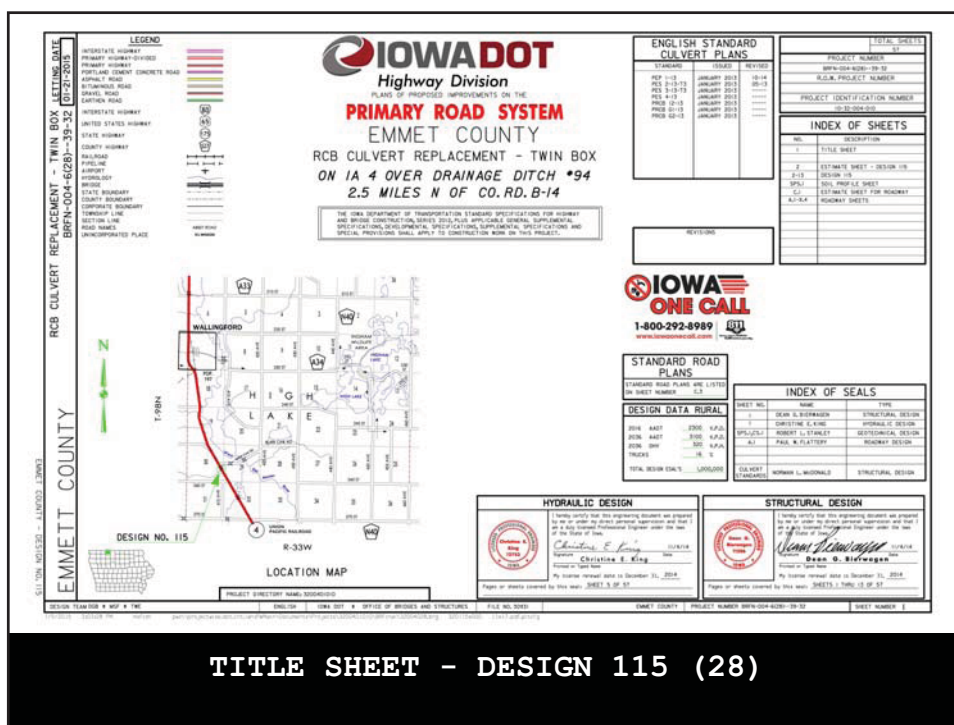
RAILROAD CLOSURE:

- RR closure must be limited to a single closure of **90 hours maximum** (two non-consecutive closures will not be permitted).
- Closure defined as duration between the cut of the rail lines and the completion of the RR subbase placement.
- RR cuts and **rail reconstruction will be by UPRR**. Contractor will be required to provide a crane and operator for UPRR's work.
- Liquidated Damages = **\$1,600/hour**
- Railroad **flaggers will be required** when track is open and work is being completed within RR right-of-way.

SCHEDULE – HIGHWAY CLOSURE

HIGHWAY CLOSURE:

- IA 4 closure must be limited to **56 calendar days** maximum, detour route will be in effect.
- Closure must start on or after June 15, 2015.
- Contract late start date is August 3, 2015.
- Incentive/Disincentive = **\$5,000/day**

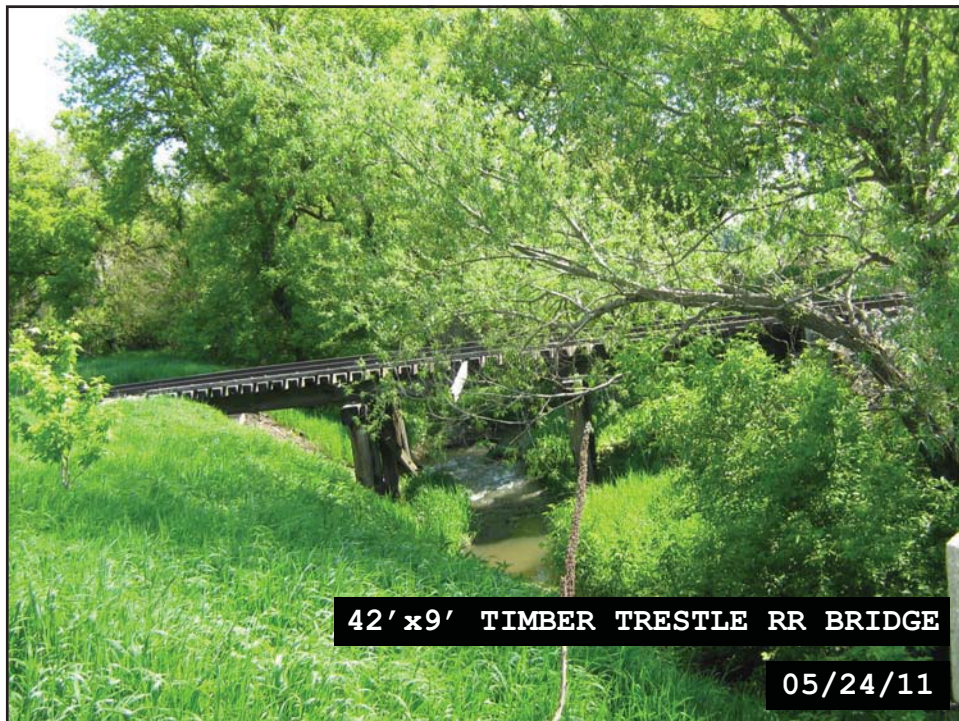
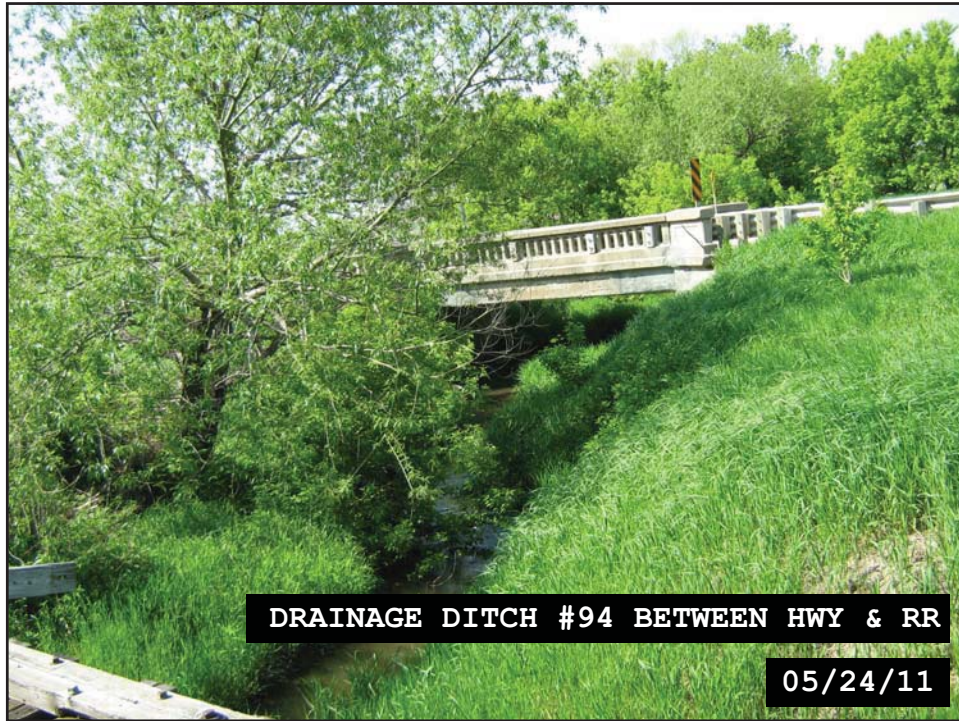


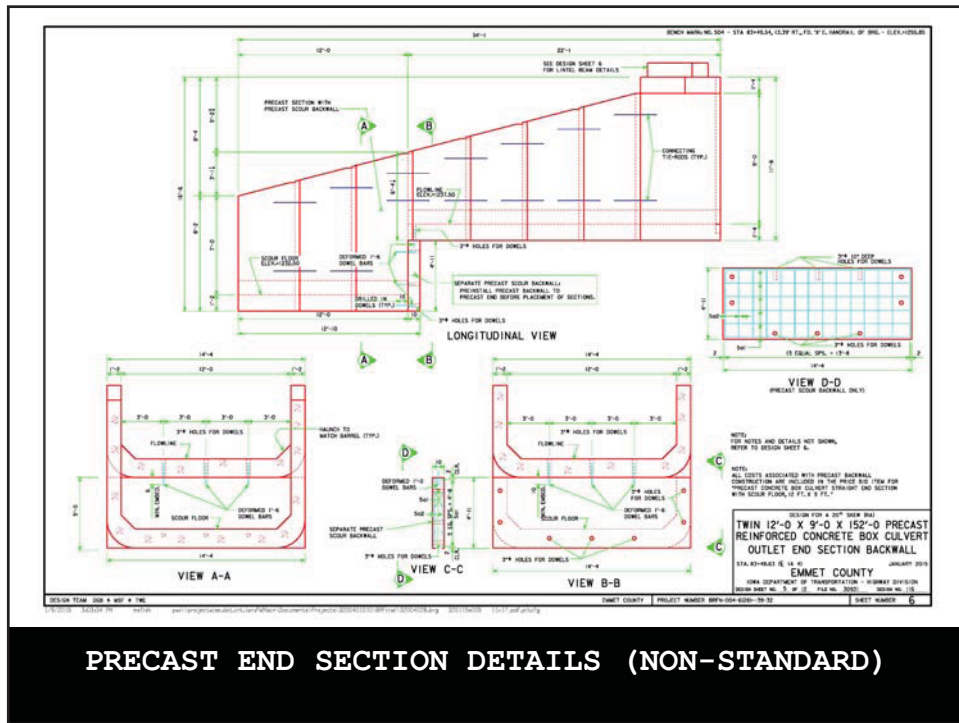
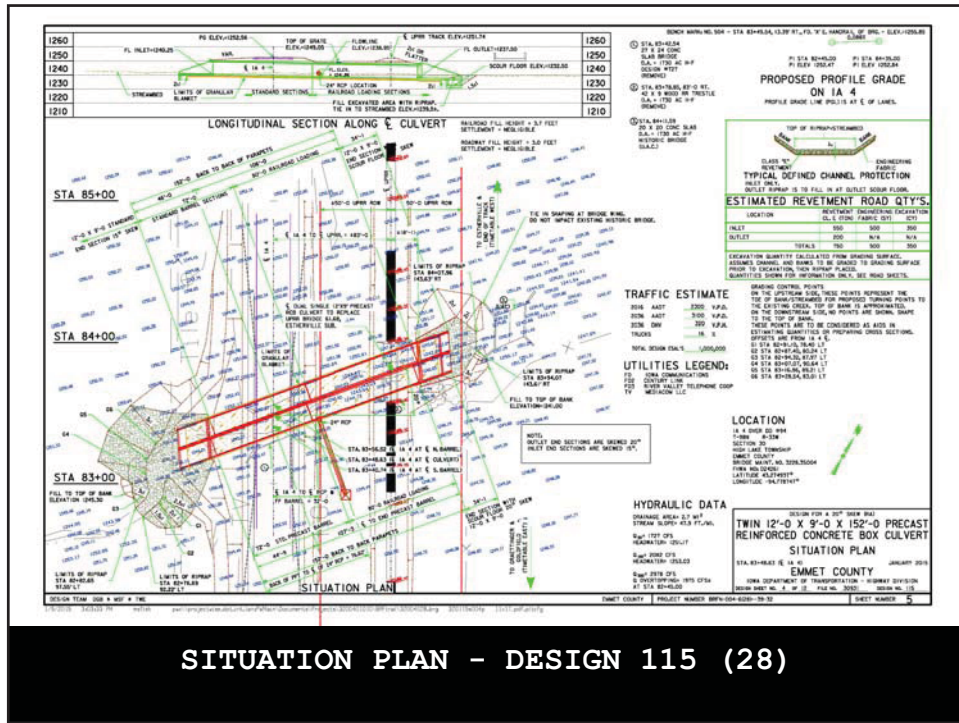
BRFN-004-6 (28) --39-32

DESIGN 115 - IA 4 OVER DRAINAGE DITCH #94

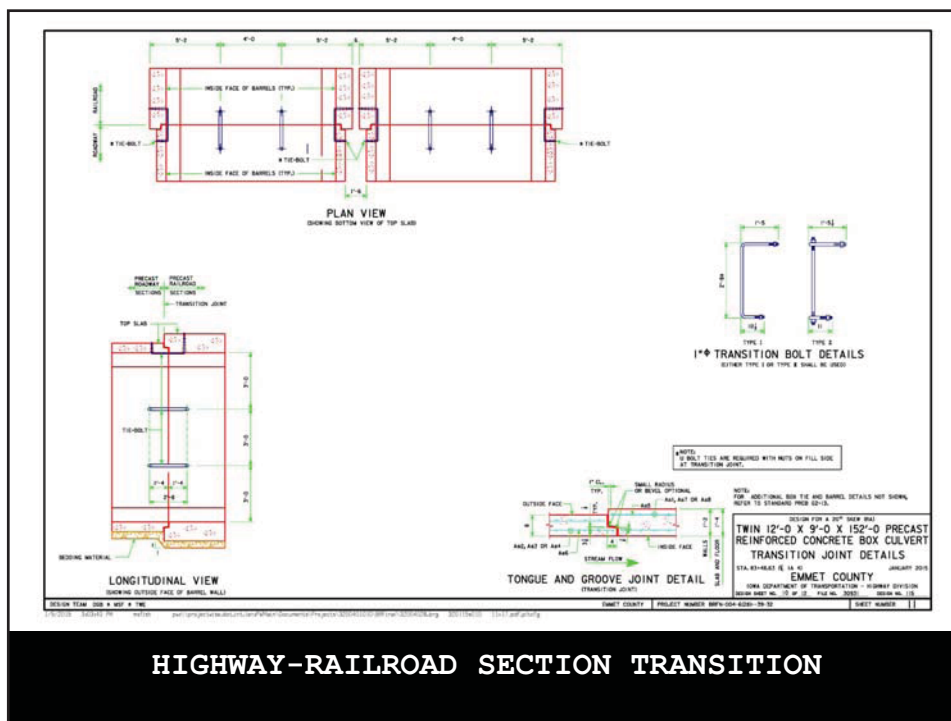
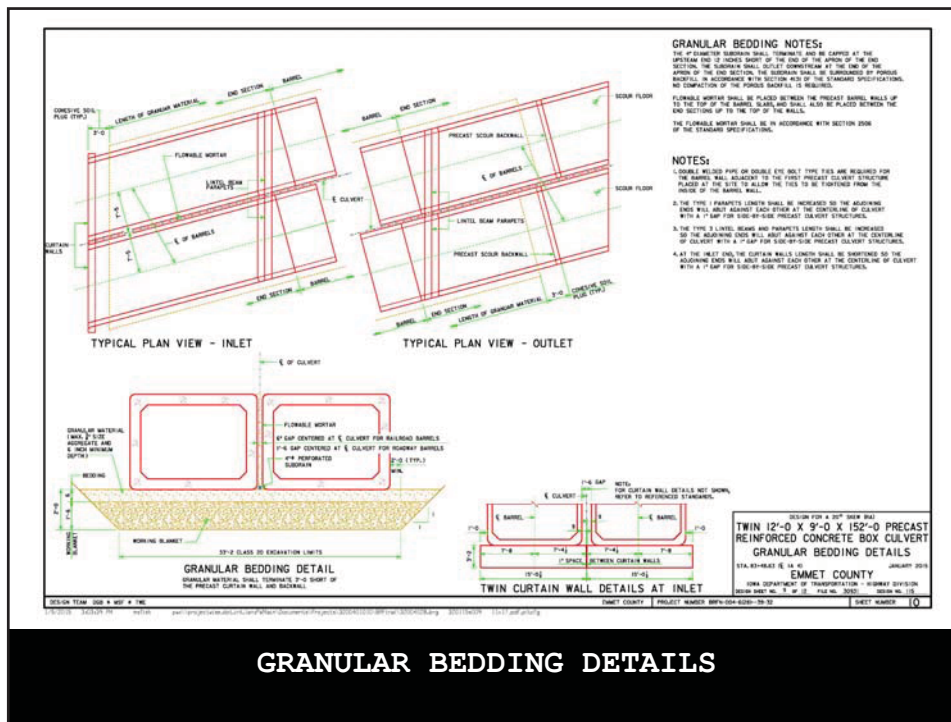
- Remove existing 27'x24' concrete slab highway bridge.
- Remove existing 42'x9' timber trestle railroad bridge.
- Construct 20° skew, dual-single 12'x9'x152' precast RCB culvert.
 - 72' Standard barrel sections
 - 80' Railroad loading sections
- Construct culvert end sections.
 - Standard precast inlet (IA 4 side)
 - Non-standard precast outlet with scour floor (RR side).
- Reshape common ditch between IA 4 and RR. Install storm sewer area inlet with RCP tie-in to culvert.







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BRFN-004-6 (29) --39-32

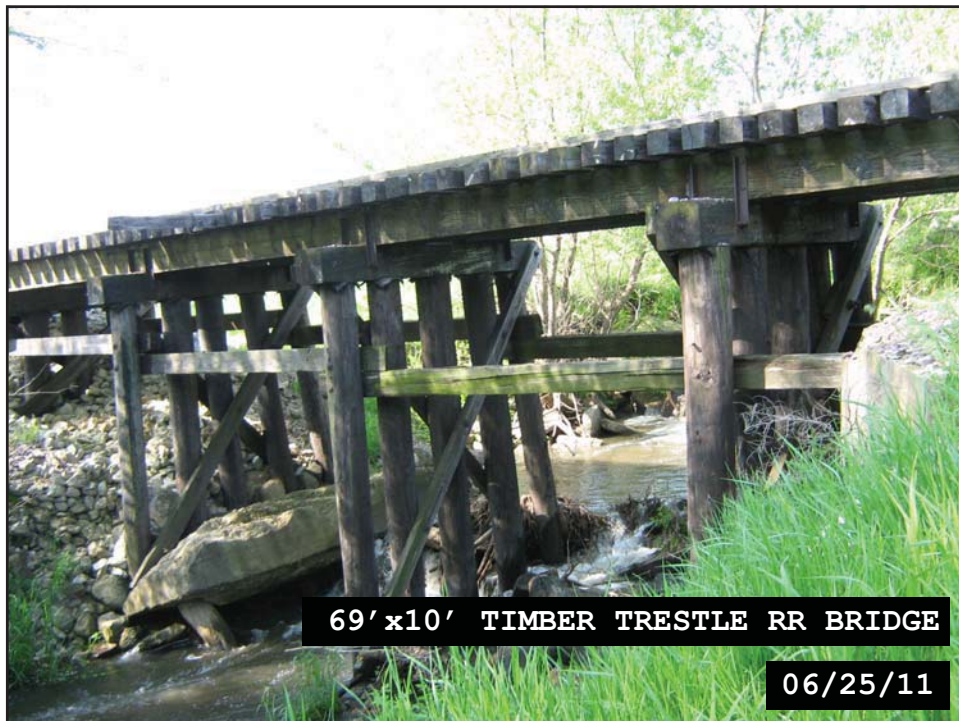
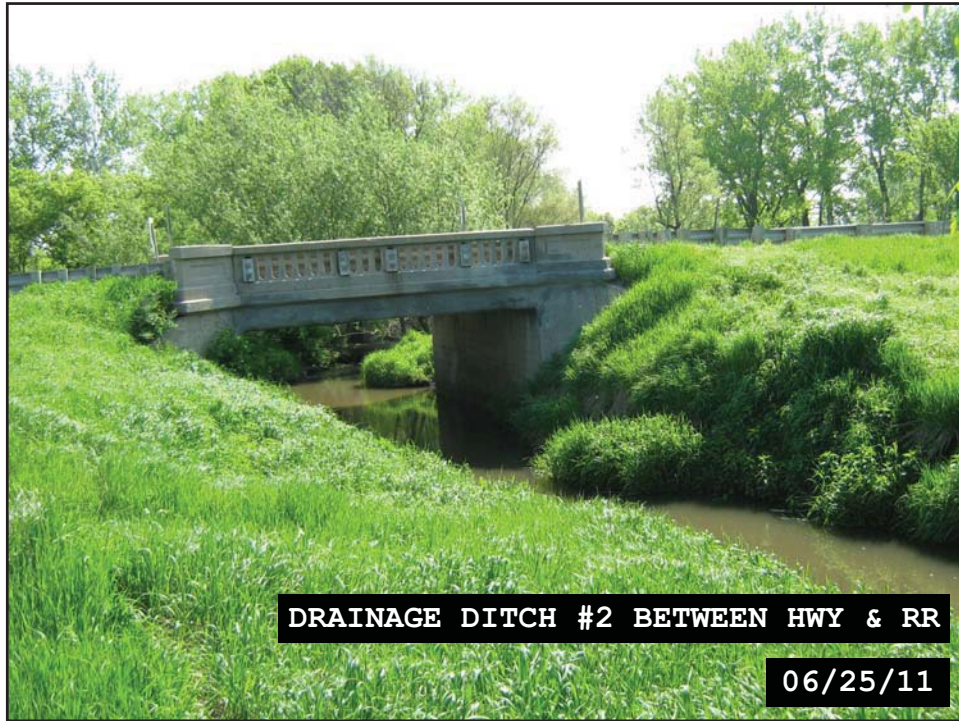
DESIGN 215 - IA 4 OVER DRAINAGE DITCH #2

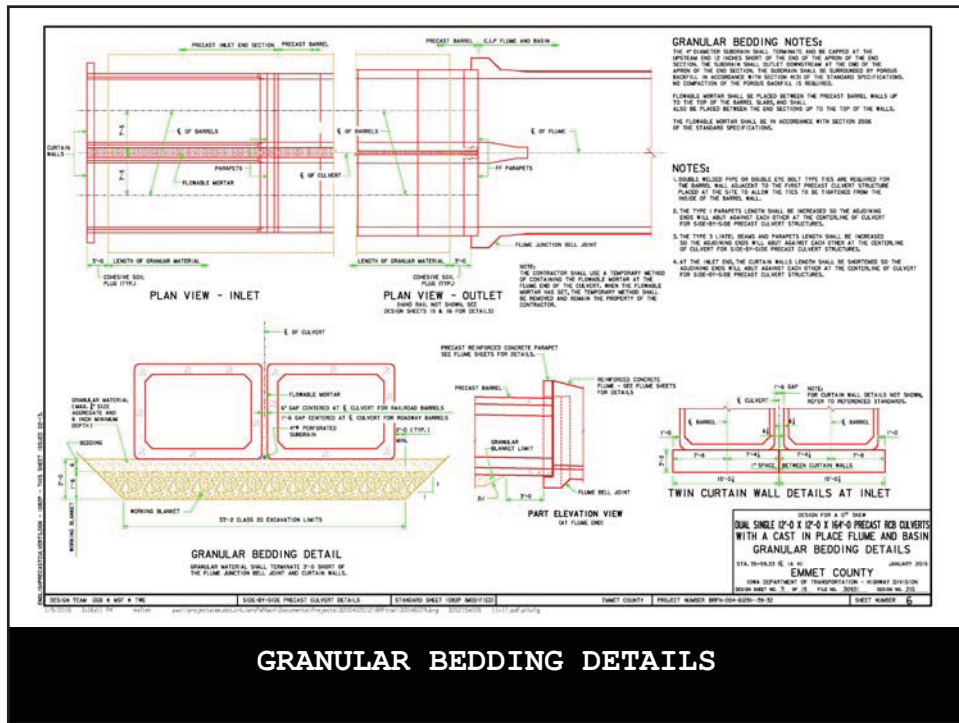
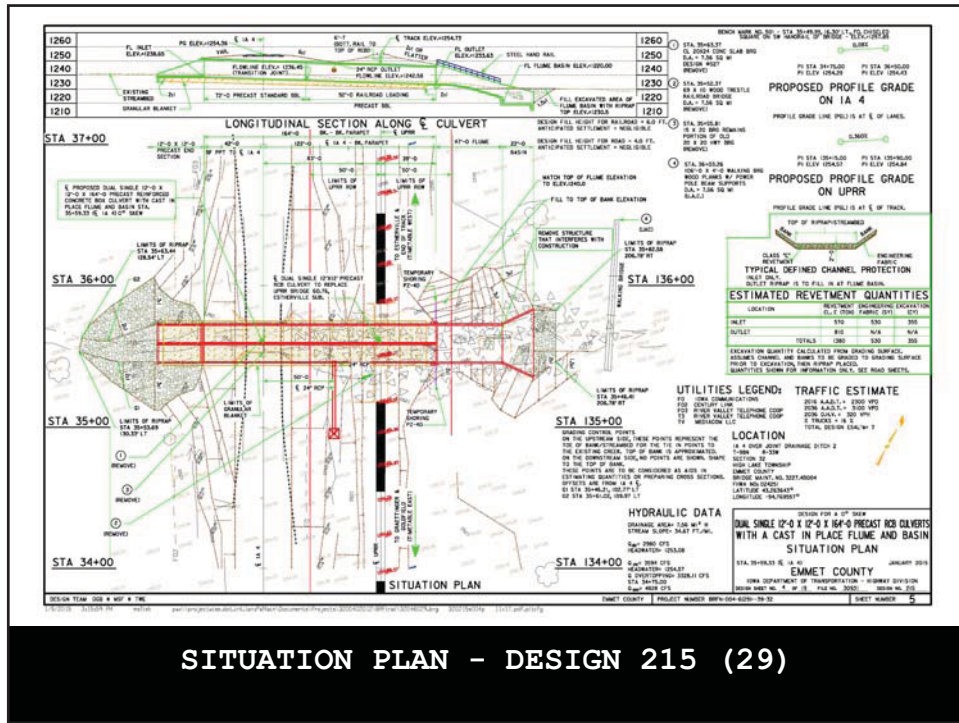
- Remove existing 20'x24' conc. slab highway bridge and remains of older bridge(s)
- Remove existing 69'x10' timber trestle railroad bridge
- Construct 0° skew, dual-single 12'x12'x164' precast RCB culvert
 - 72' Standard barrel sections
 - 92' Railroad loading sections
- Construct culvert end sections
 - Standard precast inlet (IA 4 side)
 - Non-standard cast-in-place outlet with flume basin (RR side)
- Construction of outlet/flume assumed to be outside of 90 hour RR closure window
 - "Zone A" temporary shoring will be required during flume construction while rail line is active. Shoring details are included with design plans and have been approved by RR.
 - Design intent is for flume construction to be completed after culvert sections below RR are placed and backfilled
- Reshape common ditch between IA 4 and RR. Install storm sewer area inlet with RCP tie-in to culvert

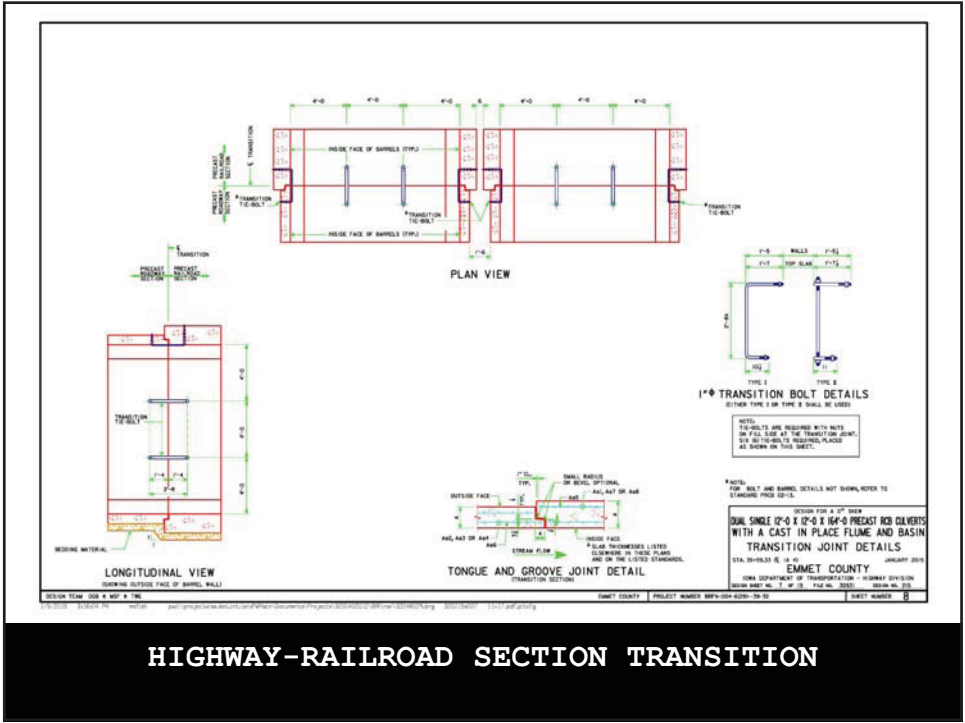
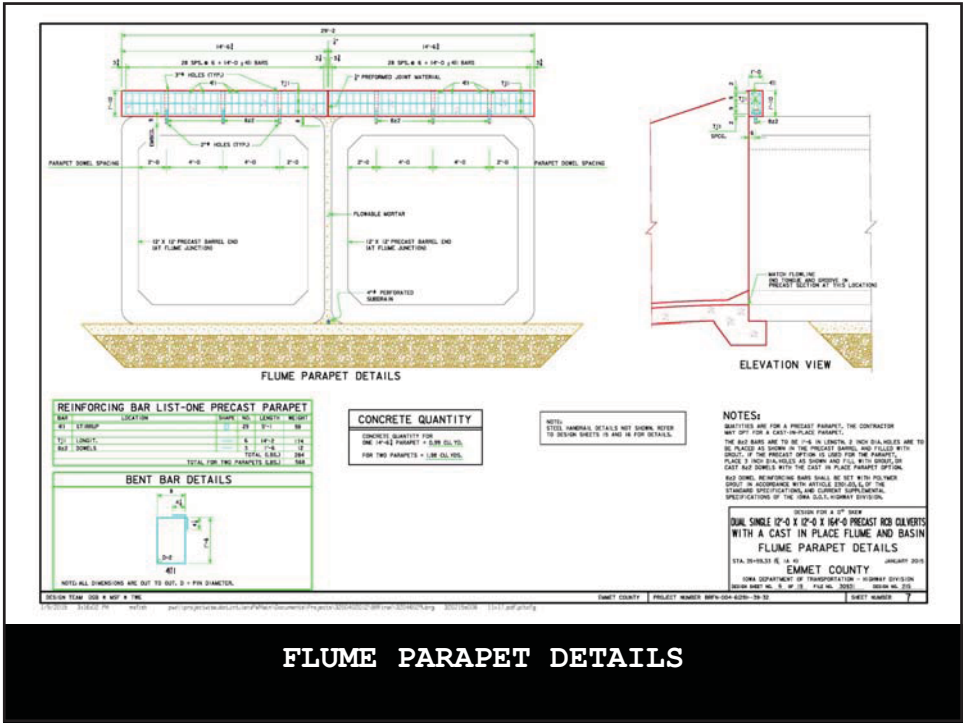


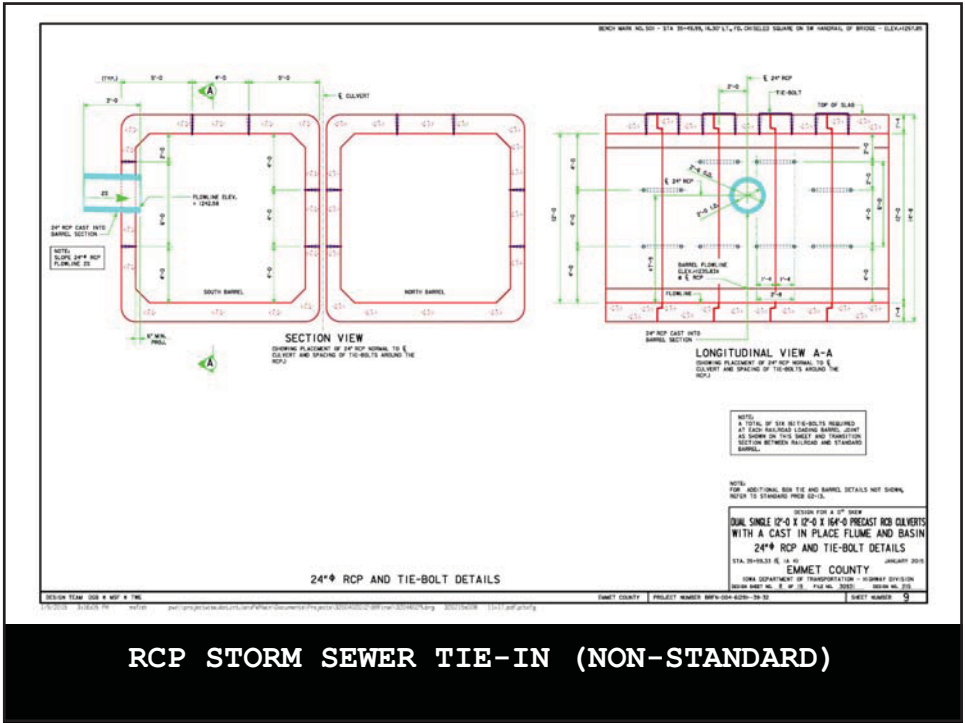
20'x24' CONCRETE SLAB BRIDGE

06/25/11

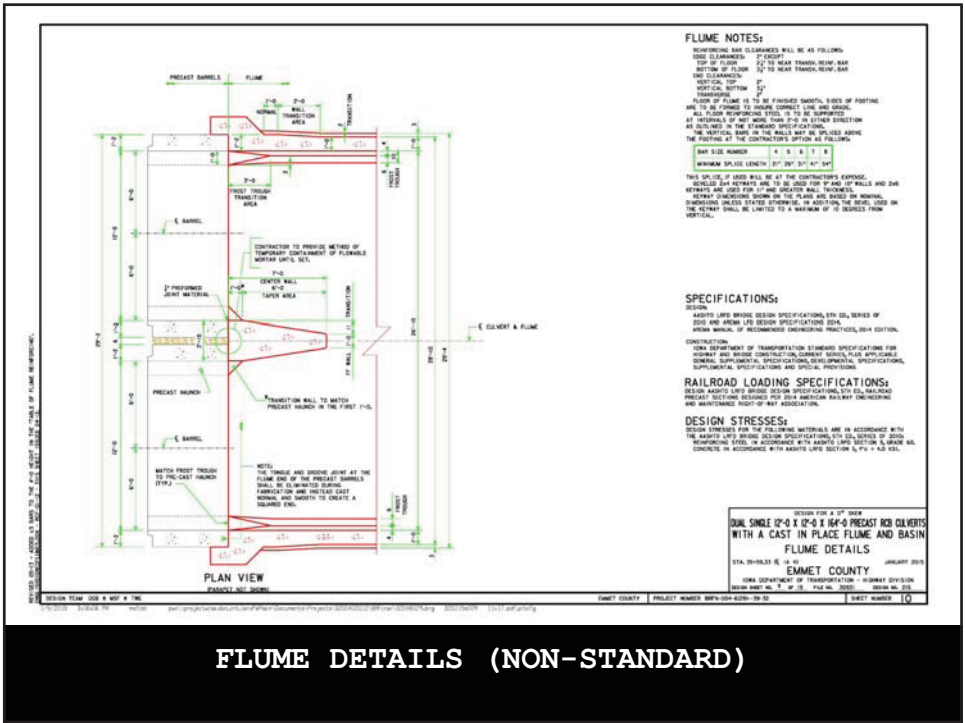




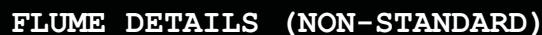


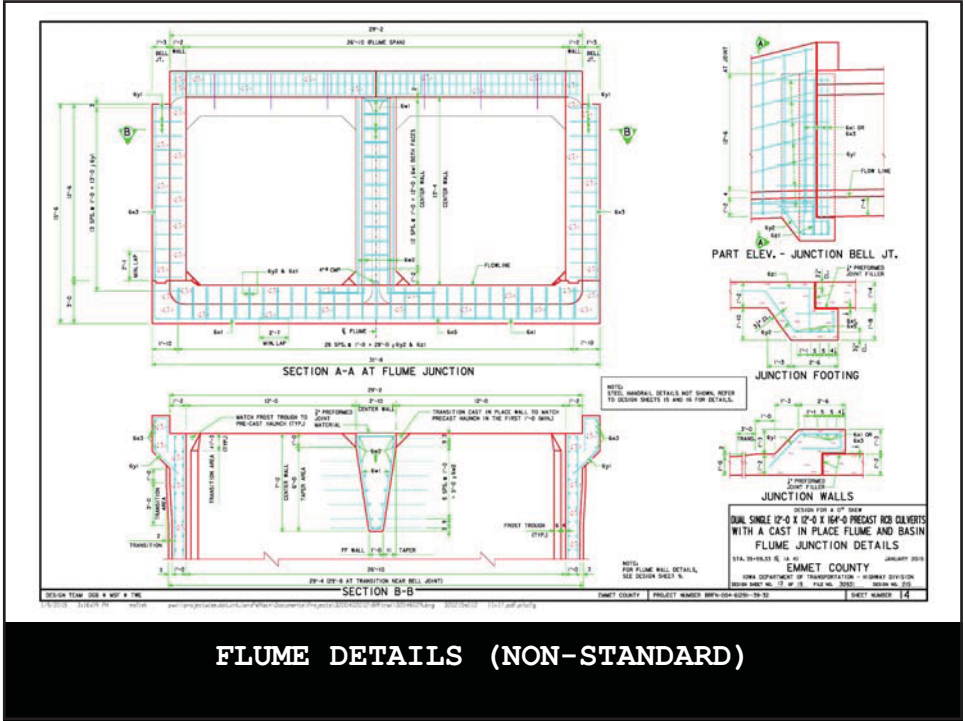


RCP STORM SEWER TIE-IN (NON-STANDARD)

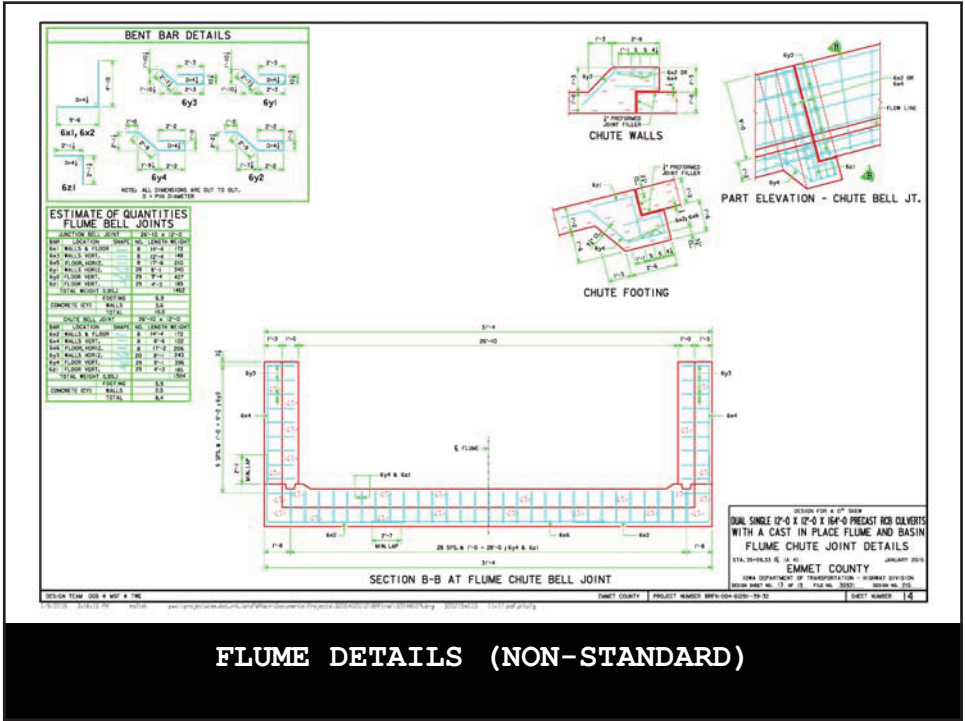


FLUME DETAILS (NON-STANDARD)





FLUME DETAILS (NON-STANDARD)



FLUME DETAILS (NON-STANDARD)





QUESTIONS??

THANK YOU FOR YOUR TIME!!