Addendum

Iowa Department of Transportation

Date of Letting: August 18, 2015

Office of Contracts

Date of Addendum: August 11, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
303	78-0801-366	GRADING	POTTAWATTAMIE	IMN-029-3(127)480E-78 IMN-080-1(366)40E-78	18AUG303.A02

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Add Proposal Line No. 1341 2102-2710070 Excavation, Class 10, Roadway and Borrow; 120.000 CY

Add Proposal Line No. 1342 2435-0130200 Manhole, Sanitary Sewer, SW-302, 3.000 EACH

Add Proposal Line No. 1351 2504-0116018 Sanitary Sewer Gravity Main, Trenched, Ductile Iron Pipe (DIP), 18 in., 216.000 LF

Add Proposal Line No. 1352 2504-0130018 Sanitary Sewer Gravity Main with Casing Pipe, Trenched, 18 in., 120.000 LF

Change Proposal Line No. 1370 2504-0240036 Remove Sanitary Sewer Pipe Less Than or Equal to 36 in:

From: 222.000 LF To: 489.000 LF

Add Proposal Line No. 1381 2510-6750600 Removal of Intakes and Utility Accesses, 2.000 EACH

Add Proposal Line No. 1382 2549-0006320 Urethane Chimney Seal, 3.000 EACH

Change Proposal Line No. 1390 2553-0000210 Trench Foundation:

From: 50.000 TON To: 100.000 TON

Change Proposal Line No. 1400 2552-0000220 Replacement of Unsuitable Backfill Material:

From: 450.000 CY To: 550.000 CY

Add Proposal Line No. 1401 2599-9999005 Connect Sanitary Sewer Pipe, 4.000 EACH

Add Proposal Line No. 1430 2552-0000210, Trenched Foundation 40.000 EACH

Add Proposal Line No. 1440 2552-0000220, Replacement of Unsuitable Backfill Material, 80.000 CY

Add Proposal Line No. 1450 2554-0112008, Water Main, Trenched Ductile Iron Pipe (DIP), 8", 50.000 LF

Add Proposal Line No. 1460 2554-0122008, Water Main, Trenchless Ductile Iron Pipe (DIP), 8", 30.000 LF

Add Proposal Line No. 1470, 2554-0142008 Water Main, with 20" Casing Pipe, Trenched (DIP), 8", 137.000 LF

Add Proposal Line No. 1480, 2554-0202200 Fitting by Count, Mechanical Joint Tee (DIP), 8"x8"x8", 1.000 EACH

Add Proposal Line No. 1490, 2554-0202200, Fitting by Count, Mechanical Joint (DIP), 8" 45 Bend 4.000 EACH

Add Proposal Line No. 1500, 2554-0202200, Fitting by Count, Mechanical Joint (DIP), 8"X6 Reducer 1.000 EACH

Add Proposal Line No. 1510, 2554-0202200 Fitting by Count, Sleeve 8" Standard Size (DIP), 7.000 EACH

Add Proposal Line No. 1520, 2554-0202200 Fitting by Count, Sleeve 6" Standard Size (DIP), 2.000 EACH

Add Proposal Line No. 1530, 2554-0202200 Fitting by Count, Plug 6" (DIP), 1.000 EACH

Add Proposal Line No. 1540, 2554-0207008 Gate Valve and Valve Box 8", 2.000 EACH

Add Proposal Line No. 1550, 2555-0000010 Deliver and Stockpile Salvaged Materials, 1.000 LS

Add Proposal Line No. 1560, 2599-9999005 Trenchless Water Main Setup, 1.000 EACH

Add Proposal Line No. 1570, 2599-9999005, Cut and Connect to Existing 8" Water Main 4.000 EACH

Add Proposal Line No. 1580, 2599-9999005, Cut and Connect to Existing 6" Water Main 1.000 EACH

Add Proposal Line No. 1590, 2599-9999005, Cut and Plug Existing 8" Water Main 1.000 EACH

Add Proposal Line No. 1600, 2599-9999005, Cut and Plug Existing 6" Water Main 1.000 EACH

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

Make the following change to the Proposal Special Provisions Text:

Add this note to the work restrictions of 656.0199

Access to Haul Route #4 from South Omaha Bridge Road will not be available until April 1, 2016.

Replace SP 120319 with the attached SP 120319a

Revised language for - EMERGENCY ACTION PLAN that clarifies submittal requirements.

Make the following changes to the plans:

Replace plan sheet A.1 with the attached:

Revised A.1 sheet with updated Index of Sheets table and Index of Seals table.

Replace plan sheet M.6, M.7, & M.8 with the attached:

Add plan sheets M.9 thru M.15 to the plans:

Additional plan sheets M.6-M.10 and M.11-M15 for sanitary sewer relocation at 20^{th} Avenue and water main relocation in the area of 8^{th} Street and 12^{th} Avenue.



SPECIAL PROVISION FOR EMERGENCY ACTION PLAN

Pottawattamie County IMN-080-1(366)4--0E-78

Effective Date August 18, 2015

THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

120319a.01 DESCRIPTION.

A. Levee Unit Name: Ag Levee L-624, Section 3 (Mosquito Creek Levee)

Missouri River - Council Bluffs Flood Protection

Local Sponsor: City of Council Bluffs, Iowa

River Miles: M0.00 to about M1.69

Levee Stations: 998+45 to 1100+00

Project Name: Council Bluffs Interstate System – Segment 3

Railroad Consolidation
Pottawattamie County, Iowa

B. The lowa DOT is proceeding with the railroad consolidation as a part of the Council Bluffs Interstate System (CBIS) improvement program. The work for railroad consolidation involves the construction of new railroad embankments. The levee affected by this construction is the Agricultural Levee L-624, which is a part of the Council Bluffs Flood Protection System that was originally designed and constructed by the Omaha District of the U.S. Army Corps of Engineers (USACE) in the early 1950s. A large portion of the railroad consolidation will take place within the "critical area" of the levee, which is defined by the USACE as the area within 300 feet riverward and 500 feet landward of the levee.

The specific work covered by this Emergency Action Plan (EAP) addresses the earthen embankments for the new railroad tracks, excavated shallow ditches along the toes of the railroad embankments, a box culvert for a bike path underpass through the rail embankment near levee Station 1079+00R, and railroad embankment construction at the Mosquito Creek right bank levee tie-in located at the north end of the levee. The majority of this construction will take place within the levee critical area of the subject levee. The levee critical area is considered by the USACE to be the area from 300 feet riverward to 500 feet landward of the flood control project.

C. The purpose of this Special Provision is to identify the submittals required by the Contractor for compliance with the Section 408 submittal to the USACE, state the Section 408 submittal limitations on work in the levee critical area, establish the minimum monitoring requirements, establish the emergency response in case of a flood event, and establish the restoration requirements for damage to the levee critical area. A copy of the Section 408 submittal is available from the Engineer.

120319a.02 CONSTRUCTION.

A. Preparation of Emergency Action Plan.

Prior to construction, the Contractor shall prepare and follow an EAP, which will address the requirements presented in this document and the procedures for high water conditions on either the Missouri River or the Mosquito Creek during construction. The EAP shall include emergency contact information, including cell phone and pager numbers of the project manager, project superintendent and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week.

B. Submittals.

Any changes proposed by the Contractor for construction activities located in the levee critical area, such as: changes to staging, excavation depths, shoring, haul routes, or levee access; groundwater dewatering; or pumping water from the Mosquito Creek must be submitted to the Engineer for approval. Submittals will be reviewed by the Engineer, the City of Council Bluffs, and the USACE. Allow 9 weeks for review of these submittals. This time frame does not include review of resubmittals.

If any of these changes are anticipated, a description and location of the proposed changes, approximate time frame that the work will occur, any emergency action necessary, and a description of the proposed removal and restoration shall be included in the EAP submittal.

C. Construction Staging.

- 1. The lowa DOT, City of Council Bluffs representatives, and the Engineer shall be notified 1 week prior to construction of the track embankment that ties into the levee section at the north end of the right bank of Mosquito Creek at the lowa Interstate System railroad embankment (levee Station 985+45), and at the completion of construction operations.
- 2. Determination that the proposed work is considered substantially complete work will include review of:
 - **a.** The earthwork grading and
 - **b.** Satisfactory compaction test results.

D. Limitations.

- 1. The Contractor must ensure that the proposed construction will not involve any additional landward or riverward excavations in the critical area that may negatively impact the levee at any time during construction except as shown in the approved plans and specifications.
- 2. The Contractor must ensure that access to the levee crest and area within 15 feet of the levee toe is available to the City of Council Bluffs and USACE at all times. Any required restrictions will require prior approval of the Engineer and the City of Council Bluffs.

120319a.03 EMERGENCY ACTION PLAN.

A. Contents of Emergency Action Plan.

- 1. The contents of the EAP shall present a detailed staging plan and all provisions in the contract documents so that the integrity of the levee system and its ability to provide flood protection will be maintained throughout the entire duration of construction. A site map shall be provided in the EAP that identifies the location of:
 - Drainage District Right-of-Way (provided by the Engineer),
 - levee centerline with stationing (provided by the Engineer),
 - 500 foot landward critical area (provided by the Engineer),
 - Proposed haul routes,
 - Proposed construction within the levee critical area,
 - Stockpiles that will be available for emergency backfill along with dates that stockpiles will be in-place and type of materials, and
 - Proposed levee access locations.

The EAP shall include the schedule for activities within the levee critical area such as planned excavations.

The EAP shall be submitted at least 9 weeks prior to construction within the critical area.

2. The proposed construction will be performed during flood and non-flood event periods. The potential does exist for the river or stream to rise to flood level during the proposed construction. The Contractor shall have the provisions described in this Special Provision in place to address this potential.

B. Procedures.

The following procedures shall be in place to address an emergency situation:

1. Daily Monitoring.

- a. The water level in the Missouri River shall be monitored on a daily basis by the Contractor and recorded in the daily construction log. The extended forecast of future river levels and precipitation in the Mosquito Creek drainage basin shall also be monitored and recorded in the daily construction log. The Contractor shall be able to react quickly to the required actions described in this Special Provision, if a heavy precipitation event occurs at any time of the day.
- **b.** The Engineer and the City of Council Bluffs shall be notified if flood waters in the Mosquito Creek come into contact with the levee or are near the top of the levee within the construction limits.

2. Monitoring Agencies.

- **a.** The river level shall be monitored through USGS and National Weather Service websites for River Gage 06610000 Missouri River at Omaha, NE.
 - http://waterdata.usgs.gov/ne/nwis/uv/?site_no=06610000&
 - http://www.riverwatch.noaa.gov/forecasts/OAXRDOAX.php
- **b.** The Mosquito Creek basin precipitation forecast shall be monitored through the National Weather Service website.
 - http://www.hpc.ncep.noaa.gov/qpf/qpf2.shtml

3. Ceasing Operation.

- **a.** Construction operation involving excavations will cease in the event the river levels are within 5 feet of the published flood stage of 29 feet (Elevation 974.4 feet). The 100 year flood elevation at this location is 981.0 feet. The 500 year flood elevation is 983.0 feet.
- b. In the event greater that 1 inch of rainfall in a 24 hour period is forecasted for the Mosquito Creek drainage basin, coordinate the work planned on the levee or riverward of the levee with the Engineer and City of Council Bluffs and take actions to ensure that no material or equipment is located on the levee or riverward of the levee at the end of the shift.

- **c.** Construction operations on the levee or riverward of the levee will cease if an unforeseen precipitation event occurs and the water level in the Mosquito Creek begins to approach bank full of the minor channel. Material and equipment shall be removed from the levee and riverward of the levee within 4 hours of the unforeseen precipitation event.
- d. Coordinate with the Engineer, City of Council Bluffs, and USACE to determine timing and sequence of activities, as appropriate for returning to working following the receding of flood waters.

4. Construction Equipment.

Provide a list of all construction equipment that will be present throughout the duration of construction within the critical area and will be available for emergency flood fighting activities.

5. Emergency Backfilling.

- a. Emergency backfilling shall be commenced, if the river level reaches an elevation within 5 feet of the published flood stage of 29 feet (Elevation 974.4 feet). The rate of emergency backfilling shall exceed the rate of the rising river. Excavated soil shall be used as emergency backfill.
- **b.** Emergency backfilling shall commence, if the water level in the Mosquito Creek begins to approach bank full of the minor channel. The rate of emergency backfilling shall exceed the rate of the rising water. Excavated soils shall be used as emergency backfill.
- **c.** If excessive seepage is observed in any of the excavations, the City and Engineer shall be notified immediately to determine the appropriate course of action.

120319a.04 EMERGENCY CONTACT INFORMATION.

A. City of Council Bluffs.

Jeff Krist, P.E.

City of Council Bluffs, Public Works Dept.

290 Pearl Street

Council Bluffs, Iowa 51503 Phone: 712-328-4635 (office) Email: jkrist@councilbluffs-ia.gov

Pat Miller, Operations Manager Phone: 402-510-2700 (cell)

Jeremy Noel, Levee Superintendent

Phone: 402-968-7301 (cell)

B. Iowa DOT Resident Construction Engineer.

David Dorsett, P.E. 3538 S. Expressway Council Bluffs, Iowa 51501 Phone: 712-366-0568

Email: David.Dorsett@dot.iowa.gov

C. Iowa DOT District 4 Construction Engineer.

George Feazell, P.E. 2210 East 7th Street Atlantic, Iowa 50022 Phone: 712-243-3355

Email: George.Feazell@dot.iowa.gov

D. Section 408 Engineer.

Patrick H. Poepsel, P.E.

HDR, Inc.

8404 Indian Hills Drive Omaha, Nebraska 68114 Phone: 402-399-1368

Email: Patrick.Poepsel@hdrinc.com

E. USACE - Omaha District.

Ryan Buckley, P.E. USACE – Readiness Branch 1616 Capitol Avenue, Suite 9000 Omaha, Nebraska 68102-4926

Phone: 402-995-2446

Email: Ryan.M.Buckley@usace.army.mil

F. Contractor.

Provide primary and secondary contact information for project manager, project superintendent, and foreman.

120319a.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

All costs for complying with this special provision including the preparation of the EAP, inclusion of submittals with the EAP, project coordination, pre- and post-construction surveys, monitoring, emergency actions, and any other item associated with implementation of the EAP shall be considered incidental to the project. No separate payment will be made.

Project Key Map
Typical Cross Sections and Details
Typical Cross Sections and Details
Typical Cross Sections and General Information Mainline Plan and Profile Sheets Project Description Estimated Project Quantities Estimate Reference Information Standard Road Plans Index of Tabulations Pollution Prevention Plan Tabulations INDEX OF SHEETS Soil Tabulations Title Sheet Location Map Sheet CS Sheets 8.1 - 13 Sheets Sheets Sheets Sheets A.2 - 3 A.4 - 9 C.8 - 19 8/18/2015

CONSOLIDATION RAILROAD

9

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Survey Sheets H.1 - 9 Sheets 6.1 - 5 6.6 - 14 6.15 - 26 Sheets Sheets

Storm Sewer Tabulations
Storm Sewer Legend & Symbol Information Sheet
Storm Sewer Plan and Profils Sheets "8th St."
Storm Sewer Plan and Profils Sheets "1th Ave."
Storm Sewer Plan and Profils Sheets "7th St. Ext."

M.3 M.3 M.4 M.4

Sewer Sheets

Staging Notes

• 3.4 - 7

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3.1 - 2

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• D.27 - 28 * D.16 - 17 IWN-080-1(399)4--0E-18

Plan & Profile Legend & Symbol Information Sheet BMSF Sonth Life Segment Life Symbol Information Sheet BMSF Weye Track Bast Leg BMSF Weye Track Bast Leg BMSF Weyer Segment 1 BMSF North Segment 2 GBEC Main Track Grade Raise GBEC Connection to Existing CBEC Junction CBEC Existing Track Grade Raise SIRE Conserve and Mid-American Crossover Western Engineering Track Call . D.32 - 33

Bartlett Connection Bartlett Tracks 1.5 Bartlett Locomotive Tie Up Side Road Plan and Profile Sheets

Entrance 200042
Entrance 402500
Barilets Set-out Access Road
Channel 10
Channel 30 8th Street 12th Avenue Existing 7th Street 7th Street Extension Bike Path Realignment

Temporary Track Sheets BNSF South Temp Line Segment 23rd Avenue Extension CBEC Access Road

Sheets

Geometric & Stabing & Edge Profiles "12th Ave. Turn."
Geometric & Stabing & Edge Profiles "7th St. Rtst."
Geometric & Stabing & Edge Profiles "7th St. Ett."
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Geometric & Stabing "23rd Ave. Extension"
Jointing "8th St. / 12th Ave."
Jointing "21th Ave. "Iuranound"
Jointing "21th Ave. Turnanound"
Jointing "21th St. Extension"
Jointing "23rd Ave. Extension"

M Sheets

Morizontal Control Tab. & Super for all Alignments proposed Track Alignment Geometry
Reference Ties and Bench Marks
Right-of-Way Sheets
Right-of-Way Sheets
Traffic Control and Staging Sheets
Traffic Control Plan

Coordinated Operations / Pedestrian Path Closures
Traffic Control & Staging Legend & Symbol Info. Sheet
Staging and Traffic Control Sheets Stages 1 A, B, C&D
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PROJECT IDENTIFICATION NUMBER

04-78-029-010-03 PROJECT NUMBER

IMN-080-1(366)4--0E-78 R.O.W. PROJECT NUMBER IMN-029-3(65)54--0E-78

> PLANS OF PROPOSED IMPROVEMENT ON THE Highway Division

SYSTEM E ROAD (INTERSTATE POTTAWATT

Storm Sewer Plan and Profile Sheets "BNSF M. Seg. 2" Sanitary Sewer Sheets Water Main Sheets

* M.6 - 18

No.

Sheets

Electrical Layout Sheets
Electrical Layout Sheets BNSF RR

Soils Sheets

Sheets

DESCRIPTION

INDEX OF SHEETS

BNSF RAILWAY COUNCIL BLUFFS SUBDIVSION MP 488.60 TO MP 492.80
BNSF RAILWAY BAYARD SUBDIVISION MP 481.02 TO MP 483.39
CBEC RAILWAY 16TH AVENUE TO CBEC JUNCTION
BARTLETT GRAIN ELEVATOR INDUSTRIAL TRACKAGE
SOUTHWEST 10WA RENEWABLE ENERGY (SIRE) INDUSTRIAL TRACKAGE
WESTERN ENGINEERING INDUSTRIAL TRACKAGE

RAILROAD CONSOLIDATION

SCALES: As Noted

Value Engineering Saves. Refer to Article 1105.15 of the Specifications. Refer to the Proposal Form for list of applicable specifications.

SUMMARY NO MILEAGE

ONE CALL 1-800-292-8989 **■**Mol

For Project Location Map Refer to Sheet A.2 - A.3

Geometric & Staking & Edge Profiles "8th St./12th Ave Geometric, Staking and Jointing Sheets

Sheets

INDEX OF SHEETS

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Flaces memorals
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Flaces goodpold Grading Details
Sth St. / Itath Ave. | MRSF N. Seg. 2 Grading Details
Ditch Grading Details * Typical Access Road Crossing
Pape Bedoing Details * Typical Access Road Crossing
Sth St. / RMSF N. Seg. 2 Crossing Detail
32rd Ave. / Mestern / Bartlett Con. Crossing Detail
Crossing Diamond Details
Typical Turnout Railonay Plan
Typical Turnout Pad
Faul Routes
Trail Removals 500 Series, Mod.Stds. and Detail Sheets Sidewalk Legend & Symbol Information Sheet Sidewalk Plan Sheets Soils Legend & Symbol Information Sheet Soils Sheets "Mainline or Side Road Name Earthwork Quantity Sheets Earthwork Quantity Sheets Sidewalk Sheets Sidewalk Tabulations Borrow Sheets Track Removals * 5 .1 * 5 .2 - 3 5 .4 - 5 R.1 - 7 Sheets Sheets T.1 - 13 * U.8 - 9 U.10 U.11 U.13 U.14 - 15 U.16 - 20 U.18 - 20 U.18 - 20 U.18 - 20 U.18 - 20 Sheets Sheets

Cross Sections Legend & Symbol Information Sheet Mainline Cross Sections Bridge and Culvert Situation Plans Mainline Cross Sections Track Construction Details Levee Critical Zone Culvert Situation Plans V.1 - 19 | Sheets W.1 W.2 - 139 Sheets

Side Road Cross Sections Borrow Cross Sections Side Road Cross Section Borrow Cross Sections * Color Plan Sheets X.1 - 29 Sheets Sheets

BENJAMIN N. DEY 19333

Primary Signature Block

Benjamin N. Dey

SHEET NO.

Geotechnical

Craig J. Hunter John A. Christiansen William E. Davidson Terrence L. Smith Jared L. Olson

A.1 B.11 C.19 M.6 M.6

TYPE

INDEX OF SEALS

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Pages or sheets covered by this seal; A.1-9, B.1-B.6, C.1-C.12, D.1-D.43, F.1 G.1-G.26, J.1-J.20, T.1-T.13, W.1-V.19, W.1-W.19

Sanitary Sever Water Main

ENGLISH DESIGN TEAM TOWA DOTAHDR FILE NO.

POTTAWATTAMIE COUNTY PROJECT NUMBER

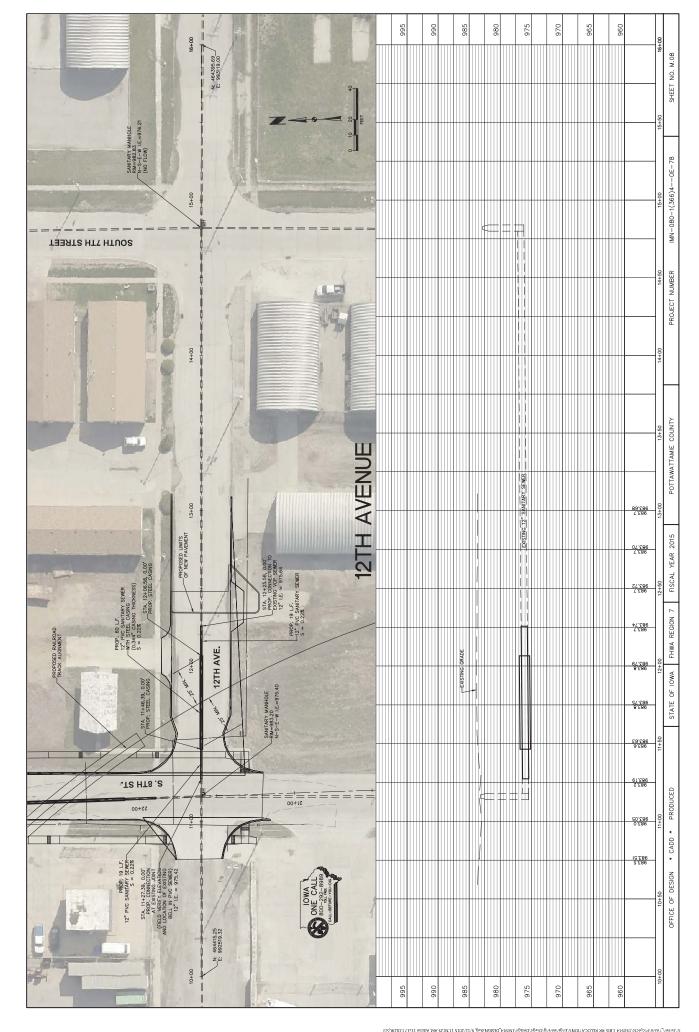
Robert L. Stanley

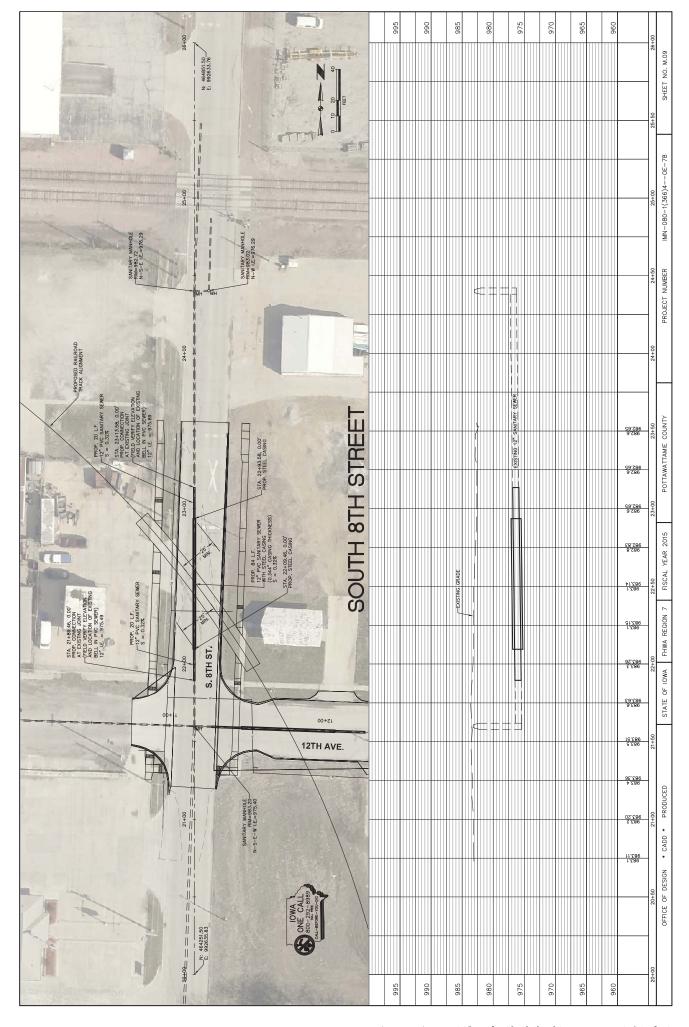
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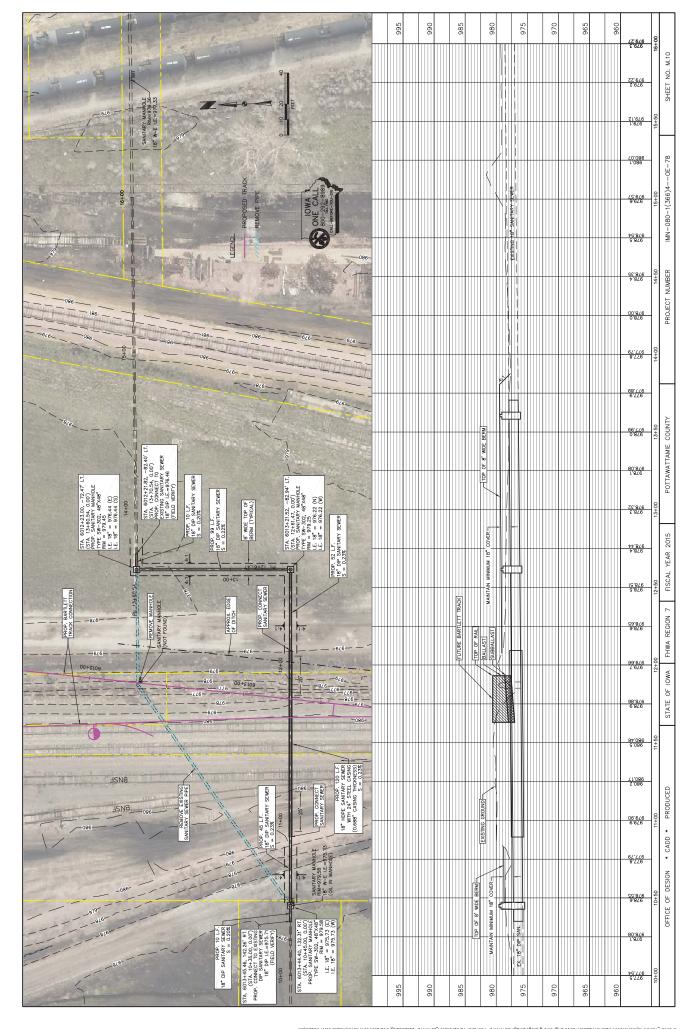
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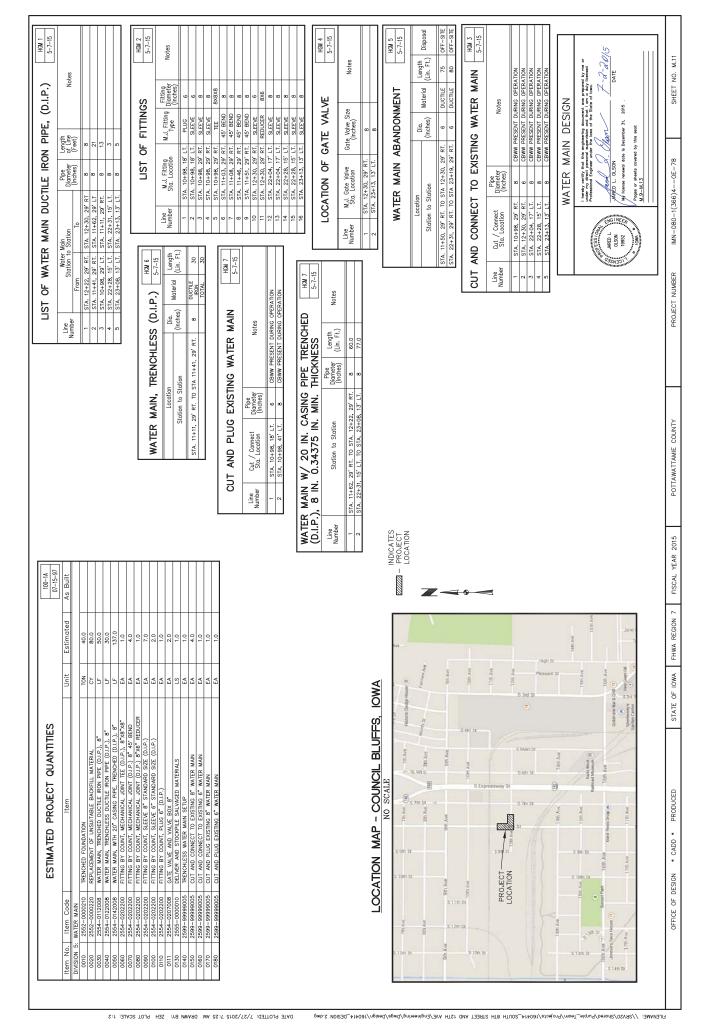
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STANDARD ROAD PLANS	Date 04-21-09	SW-104 04-21-09 PRESZORE, PIPE IRRUPA BEJOING SW-302 04-21-09 RECTANGULAR SANITARY SEWER MANHOLE	+						SITE A: BTH STREET/12TH AVENUE SEWER RELOCATIONS NONI—PARTICIPATING	SITE B: 20TH AVENUE SEWER RELOCATION	LOCATION MAP - COUNCIL BLUFFS, IOWA		Fermount Park	STEE A STORMER ON ON PARTICIPATION ON PARTICIPATION ON STORMER	South Area California in the first of the fi	### ##################################	Zisi Ase Zisi Ase sa Sp.	Lockmond P. Thulbas St. Sale Base Control of Participation of Participat	OFFICE OF DESIGN * CADD * PRODUCED STATE OF 10WA FEGION 7

100-44	Description	Description SMITARY SEME GRANTY MAIN WITH CASING PIPE. TRENCHED, P.VC. 12 IN. RETER TO 7-BULLATION ON SHEET W.O. TO MATCH GOING OF DOSING PIPE. BEDDING CLASS A DOT ABULLATION ON SHEET W.O. TO MATCH GOING OF DOSING PIPE. BEDDING CLASS F-3 GF THE STANDERS ROAD PLAN SW-103 SHALL BE USED. SEME THE FOLLOWING GRADATION: 1-1/2	UNANOMED SAMED SHALL BE FOR EACH CONNECTION MADE, BASS FOR PAYMENT SHALL BE FULL COMPENSATION FOR ALL MACHERERIA, LABOR, 10.002 AND EQUIPMENT NECESSARY TO COMPLETE. THE WORK. COMPLET TO EXISTING SHALL BE TO EXISTING UNIT LOCATIONS AS SHOWN ON THE PLANS. THE CONNECTION AT STALL AZES BIS TO DEPLOS SHALL BE FOUNDED TO DESINION ON SHALL BE FOR EXCHOLORS SHALL BE FOUNDED SHALL BE TO EXPENSATION ON SHALL BE TO BE COUNNED SHALL BE TO BE COUNDED SHALL BE TO BE SHALL SHALL BE SHALL BE COUNDED FOR ALL WITHOUT SHALL BE TO SHALL SHALL BE SHALL BE COUNDED FOR ALL WITHOUT SHALL BE SHALL BE COUNDED FOR ALL SHALL BE	SHEET NO. M.07
ESTIMATE REFERENCE INFORMATION	Desc	Description SANIARY SEWE GRANIT MAIN WITH CASING PIPE. TERNOFED, PVC., 12 IN. REFER O TABLUATION ON SHEET WAS 10 MATCH JOINTS OF EASTING PIPE. BEDDING CLISS FOR SOME AND PARKET WAS 10 MATCH JOINTS OF EASTING PIPE. BEDDING CLISS FOR THE STADIAND ROAD PLAN SH-103 SHALE BESED. BEDDING CLISS FOR THE STADIAND ROAD PLAN SH-103 SHALE BEDDING CLISS FOR THE STADIAND ROAD PLAN SH-103 SHALE STELL CASING METERIAL SHALL MEET THE FOLLOWING GRADATION: STELL CASING METERIAL SHALL MEET THE FOLLOWING GRADATION TO SHALE BESED SHALE BE USED. BEDDING CLISS FOR SHALE BE USED AT THE DIRECTION OF THE ENGINEER AT THE TRENCH BOTTOM BELOW THE TRENCH FORDIAL BE USED AT THE DIRECTION OF THE ENGINEER AT THE TRENCH BOTTOM BELOW THE TRENCH FORDIAL BE USED AT THE DIRECTION OF THE ENGINEER AT THE TRENCH BOTTOM BELOW THE TRENCH FOLDIAL BE USED TO SHALE BE PER SOLUREY TO COMPLETE THE WORK. BENCH FOLDIAL BE USED BY THE COMPLETE THE WORK. BENCH FOLDIAL BE USED TO BE USED TO SHALE BE PER SOLUREY TO COMPLETE THE WORK. BENCH FOLDIAL BE USED TO BE USED TO SHALE THE RENCH MATERIAL IS FOUND UNSUTABLE BY THE ENGINEER OF THE ENGINEER OF THE ENGINEER BEACHELL MATERIAL. BENCH FOLDIAL BY SENER PIPE. BENCH FOLDIAL BY SHALL BY MADE SHALL BY SHALL	MACAGEMENT AND PAMENT SHALL BE FOR EACH CONNECTION MADE. BASIS FOR PAMENT SHALL BE FULL WISTBALLS, LABOR, TOOLS AND ECUIPIENT NECESSARY TO COMPLETE THE WORK. CONNECT TO EXSTRUCT SAILARY SEMES BEE PRY TO PO FOR DESTRUC, 90° CONNECTIONS SHALL BE MADE AT HE WORK. THE MACAGEMENT AND PAMENT SHALL BE FOR EACH CONNECTION MADE. BASIS FOR PAMENT SHALL BE FULL WISTBALL BE FULL WISTBALL ABOR. THE NECLOUED FOR ALL BFASS PURPING SHALL CONFORM TO ANDE. THE WISTBALL BE AND THE WASHERING. THEN INCLUDED FOR ALL BFASS PURPING FEQUIPED FOR INSTALLING THE NEW SANTARY SEWER MAIN. BETASS PURPING SHALL BE CONDINCED FOR INSTALLING THE NEW SANTARY SEWER MAIN. THEN INCLUDED FOR ALL BFASS PURPING FEQUIPED FOR INSTALLING THE NEW SANTARY SEWER MAIN. THEN TEMPORARY WOOFICATIONS AND REPLACEMENT OF EXISTING MANHOLE TOPS AND CASTINGS SHALL BE ITEM. THAT TEMPORARY WOOFICATIONS AND REPLACEMENT OF EXISTING MANHOLE TOPS AND CASTINGS SHALL BE ITEM. COMPENSATION FOR ALL MATERIALS, LABOR, TOCKS AND COUNTERT THE WORK. COMPENSATION FOR ALL MATERIALS, LABOR, TOCKS AND COMPLETE THE WORK.	IMN-080-1(366)40E-78
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	Item Item Code	Nich Hem Code No 2567-3250005 Otto 2562-000220	0140 2599-9999005	YTNDO
ESTIMATED PROJECT QUANTITIES (100-15-97)	As Built Estimated	COORDINATION CLASS 10, ROADWAY AND BORROW	SANIARY STAR SANITA WITH TRANSPORT PACE 12 IN STANIARY STAR SANIARY STAR SANIARY STAR SANIARY STAR SANIARY STAR SANIARY STAR SOLICE TO AGAILATION OF SEET WIGH STAR SANIARY SANIARY SANIARY SANIARY SANIARY SANIARY SANIARY STAR SANIARY STAR SANIARY STAR SANIARY	OFFICE OF DESIGN * CADD * PRODUCED STATE OF IOWA FIGURN 7 FISCAL YEAR 2015 POTTAWATTAMIE COUNTY
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	Ш	ESTIMATE REFERENCE INFORMATION 102-44 [10-29-02]			ESTIMATE REFERENCE INFORMATION 10-29-02		ESTIMATE REFERENCE INFORMATION 102-4A 10-23-02
Item No.	Item Code	Description	Iten No.	Item Code	Description	Item No.	Description
DIVIS		MAIN	DIMIS	ON 5: WA	JAIN		₩.
0.00	2552-0000210		0070	2544-0202200		0130 2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERALS CONTRACTOR SALL DO THE RECESSARY EXCHANTON AND SUBSCOLDIT BACKFILING TO REDOVE THE REH HYDRANT AS NOTED ON THE PLANS. CONTRACTOR SALL OUT THE WATER MAN AND FOR PHYDRANT BACKFORD THE HYDROWD THE HYDROWN THAN AND CONNECTION AS NOTED BY THE WATER WORKS. CONTRACTOR SHALL BE
		INTO STATE OF CONTROL PRICE AND THE WAYS DESCRIPTION OF THE CREATION OF THE CONTROL OF THE CONTR	0800	2599-9999005	HAID, HASTS OR PAYMEN VANL BE TOUGHEN OF HE HE WORK. FITTING BY COUNT MECHANICAL, JOINT (D.I.E.) 8"Y8" PEDUCER		RESONABLE FOR REPLACION, THE EXISTING FIRE HUPRANTS IF THEY ARE DAMAGED ENOUGH THE SALVING WORK. CONTRACT PER PROMISH AND INSTALL OF CONTRACT FLOOR IN THE EXACORATE PLACE OF THE SALVING WIPRANTS FOR THE SALVING WAS THE SALVING WIPRANTS TO SOMETHING THE SALVING WAS THEN TO FRANK AT THE WATER
0020	2552-0000220	+			CONTRACT UNIT PRICES SHALL INCLUDE ALL COSTS FOR THE CONTRACTOR FURNISHING AND INSTALLING PLUGS AND RETAINER GLANDS.		WORKS DISTRIBUTION GFFICE, AT 2000 NORTH 25TH STREET AND UNLOAD THE SALVAGED TIENS AS DIRECTED AS DIRECTED TO THE SALVAGED HAVERANT SAIL THE SALVAGED HAVERANT AND OTHER PROPERTY.
		BID ITEM SALLE USED. IN LOCATIONS WERE EXCANATED PIPE TRENCH MATERIAL IS FOUND TO BE UNSUITABLE BY THE ENGINEER, DISPOSAL OF THE UNSUITABLE TRENCH MATERIAL SHALL BE INCIDENTAL TO THIS ITEM.			MEASUREMENT MAD PAWART SHALL BE FOUR EACH PROPERTY WISTALLED PLUG SLIST FOR PAWART SHALL BE FULL COMPENSATION FOR FUNHSHING ALL MATERIAL, LABOR, TOOLS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.		APPURIENANCES UN DELEGEN FIR SANCIACIO HYDRANT IS NOT DELIVERED. THE WATER WHONES RESERVES THE ROAT TO DEDUCT THE HYDRANT AND OTHER APPURIENANCES VALUE FROM THE CONTRACT PAYMENT.
		MEASJREMENT AND PAYMENT SHALL BE BY THE UNIT BID PRICE PER CUBIC YARD MEASURED BY THE CONTRACTING AUTHORITY'S REPRESENTATIVE.	0600	2544-0202200	EITINGS BY COUNT, SLEEVE 8" STANDARD SIZE (D.I.P.)	0140 2599-9999005	
0030	2554-0112008	WATER MAIN, TRENCHED DUCTILE IRON PIPE (D.LE.) 8". CONTRACT UNIT PRICE PER LE SHALL INCLUDE ALL COSTS TO SUPPLY AND INSTALL POLYTHENDE ENCASSEMEN, IN TRIEL GENESSES, TRACHOR WREE, AND TRACHOW WIRE ENTERNAL EDOSES AT EACH MAINLINE VALVE, AND/OFF FIRE HTDGART (ONE PER			CONTRACT UNIT PROFESSALL NOLUCES TO THE CONTRACTOR PERSONNER ALL OSIST SENDEN HE FOOTHACTOR PRESENCE AND NETALINES GLANDS. MEASUREMENT AND PAYMENT SHALL BE WADE FOR EACH PROPERLY ON INSTALLED SEEPE, BASS FOR PAYMENT SHALL BET LOCKPORAGING FOR PROPERLY LANGES FOR PAYMENT SHALL BET LOCKPORAGING FOR PROPERLY OF THE WASTERNAL LANGES. AND EQUIPMENT RECESSARY TO		CONTRACT UNIT PROCE SHALL INCLUDE ALL COSTS FOR SETTING, SITE PREPARATION MAD MAINTENANCE THROUGHOUT THE ITREMOHERS INSTALLATION. PAYMENT SHALL BE MADE FOR EACH LOCATION CALLED FOR IN THE PLANS. IF TWO SEPARATE BORRED AND GAMED TOGGENER IN THE FIGUR ONLY ONE PREPARATION THAN THE PLANS. THE PLANS WILL BE PLANS. AND ADDITIONAL SETINGS WILL BE AT THE CONTRACTIONS.
		ASSIGNMENT AND PAYMENT SHALL BE MADE PER UNEAR FEET OF PIPE. IN PLACE, COMPLETED AND APPROVIDE MASSINED, DANG HE CENTRELINE OF THE PIPE. THINGS AND MASSIVED, DANG HE CENTRELINE OF THE PIPE. SECTIONS IN THE CONTACT, AS THOLD, PIPE SECTIONS IN THE UNE BEND MESSINED, PIPE INSIDE A CASING WILL BE PAID FOR	0100	2544-0202200	FITTINGS BY COUNT, SLEEVE 6" STANDARD SZE (D.LP.) CONTRACT UNT PROFE SACH, INCLUDE ALL COSTS FOR THE CONTRACTOR FURNISHING AND INSTALLING SLEEVES AND RETAMER CLANDS.		ITEM SHALL BE PAUP FOR UNSUCCESSFUL TRENCHLESS BORE ATTEMPT DUE TO UNE-PECTED DEBRIS OF OPTIES OFSPITCHONS IN THE BORE PATH, DANY TWO (2). UNSUCCESSFUL ATTEMPT WILL BE PAUD AT A SETUP LOCATION, ITEM WILL NOT BE PAUD FAR A BORE ATTEMPT WAT NEEDS TO BE REDONE DUE TO MISALGAMENT BY CANTRACTOR.
		ALL PIPE INSTALLATION AND TESTING SHALL COMPLY WITH AWAN STANDARDS AND SPECIFICATIONS. COMPRACTIONS SHALL ALLOW THE COWN CORSEVER TO VISUALLY GESEVER ALL WATER ALL MAIN AND FITTINGS PROR TO BACKFILING.			MEASUREMENT AND PAYMENT SHALL BE MADE FOR EACH PROPERLY INSTALLED SLEFKE, BASSET FOR PAYMENT SHALL BEFOLK COMPENSIONS FAR LIMENTAL LABORAL, LABORAL, LABORAL, LABORAL, LABORAL, LABORAL, LABORAL, LABORAL, LABORAL, LABORAL LA	0150 2599-9999005	+
		GRW WILL FRONDE TAS FOR PURPECTION AND WILL KET ESTING SAMPLES. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABRE FOR SAMPLING SHALL PORDINATE ALL PRIBICATION AND FLUSHING OF THE MANN WITH CHANN THE CONTRACTOR SHALL NOTHER BRAN CADY (WATER WORKS AT (712) 328–1006. EXT 1039) FOR ALL CORDINATION.	0110	2554-0202200			AND LARGE REQUIRED TO CONNECT THE NEW WATER WAN ITTINGS TO THE ENSTING FOR BY CAST INON TO. ORD DUCTILE INON (D.L.). WATER WAN. THIS WORK SHALL DILY OR PREPORADD WITH WATER WORKS PERSONNEL PRESENT. CONTRACT UNIT PRICE SHALL BE FULL COMPENSATION FOR LOCATING, EXPOSING.
0040	2554-0122008				RASJIGABAN JAMANN SAAL BE MADE LOR AAGA FUGHERI NISIALLD PUUG. BASIS FOR PANENT SHALL BE FOLL COMENSARION FOR FURNISHING ALL MATERIAL, LABOR, 170-LS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.		CLEANING, AND EAL DAMAGE CAUGET OF ESSINGS WATER MAIN, COORDINATION OF WATER SERVICE REFERENCE SIND CAPERSONAL AND ALL MATERIALS AND LABOR REQUIRE. TO CONNECT TO THE EXISTING WATER MAIN.
		OUTETHYTENE ENGASEMENT, NITRILE GASKETS, TRACING WRE. AND TRACING WRE TERMINAL BOOKS AT EACH MAINLINE VALVE AND/OR FIRE HYDRANT (ONE PER CLUSTER OF VALVES).	0120	2554-0207008	GATE VALVE AND VALVE BOX 8°, MECHANICAL JOINT CONTRACT UNT PRICES SHALL INCLUDE ALL COSTS FOR THE CONTRACTOR	0160 2599-999005	
		MEASUREMENT AND PARKET SALLE BE MADE FEE UPER SPET OF PREV. PROCE. FORWELTED AND APPROVED MEASURED ALONG THE CENTERIANE OF THE PIPE. FITTINGS AND VALVES SHALL BE INCLUED IN THE FOOTAGE AS TYPICAL PIPE. SEPARATELY. THE LINE BEND MEASURED. PIPE INSDE A CASING WILL BE PAID FOR SEPARATELY.			FUNDAMENTALING AND INSTALLING VALVES, VALVE BOXES AND RETANERS GLANDS. ALL GATE VALVES SHALL BE MANUFACTURED IN ACCORDANCE WITH AWAN C-509 OR C-515 AND FAVE DUCTLE, FROM BOOY AND BOWNET WITH STANLESS STEEL BOILS. GATE VALVES SHALL BE RESIDENT—SETTE OR RESIDENT WODE, MANYET-CHEED IN ACCORDANCE, WITH AWAN C-509 OR C-515 WITH NORMSING STEM OF RIGHT STEM ACCORDANCE. WITH AWAN C-509 OR C-515 WITH NORMSING STEM OF RIGHT STEM ACCORDANCE.		AND LADRA REQUIRED TO COMPECT THE WINW WITRE MAIN BITINGS TO THE EXISTING MEDICAL CASH REON (CL.) OR DUCTILE RRON (CL.) WATER MAIN. THIS WORK SHALL DALY BE PERFORMED WITH WATER WORKS PERSONNEL PRESENT. CONTRACT UNIT PROC. SHALL BE FULL, COMPENSATION FOR, LOCATING, EXPOSING.
0020	2554-0142008	WATER MAIN, WITH 20" CASING PIPE THICKNESS 0.34375", TRENCHED (D.I.P.), 8".			SEAL, 2" SQUARE OPERATION NUT, BRONZE MOUNTED AND OPENING COUNTER CLOCKWISE (LEFT).		CLEARING, AND ALL DAMAGE CAUGE TO EXISTING WATER MAIN, COORDINATION OF WATER SERVICE INTERPUTION WITH CITY PERSONAL AND ALL MATERIALS AND LABOR REQUIRED TO CONNECT TO THE EXISTING WATER MAIN.
		LOSINOS STRUCER DON THE PLANCE EST STREET, WELL HORSON STEE ENONEER MIN A CERTIFOCTION OF WITERAL USING A SHOP DRAWN FRANSITTAL FORM. MIN OF CASING PIPE SHALL BE SEALD USING 1/8" FHICK SYNTHETIC RUBBER SALS, WHI STANLESS STEEL CAMPS, MOUSE SEW AND SEC SA MANACTURED BY COT PIPE IN SYSTEMS. TANGSLAS, AS MANUFACHINED BY POWER			1) WILLIS AS 2,250-20 (NAME STEE 2" THROUGH 12") AWMA C-510), 2) AWELLEA A-2245-20 (NAME STEE 2" THROUGH 46": AWMA C-510), 3) CAW WORLI AN GASE FIGURE F-5100. 4) AMERICAN IDAW CONPRO. STEEL 2500. 5) LIS PIE A-LIGHZO (RA A-LISTEZ-200. 6) WIRLY NAME COMPRON. STIFE 7000 (NAME STEEL 21" THROUGH 12": AWMA	0170 2599–9999005	COLTAND PLUG EXISTING 8" WATER MAIN. CONTRACT UNIT PRICE PER EA SHALL BE FULL COMPDISATION FOR ALL MATERIAL AND LABOR REQUEINED TO UT AND PULIO BE NEW WHITER MAIN. THIS WORK CALLI AND AN OF DEPERTORETH WITH WITHIN WITH BEHAVIOR PROCESSARY.
		SEAL, PIPE CINE PRODUCTS, CARGRAGNION, MODEL BANK E. SA XRANDATCHRED BY THE BANK COMPANY; MODEL AW AS MANUFACTURED BY STSTEMS, INC. OF A PROPOUGE GAUAL. CASHG CHOCKS, MODEL, CSS AS MANUFACTURED BY CCI PIPETINE SYSTEMS, NOOF.			C-515), STATE 4687 (VARE SIZES At MBN 167). 7) AMERICAN AN SERES 45 (AWMA C-515); SERES (AWMA C-509). 8). OR EQUAL PRE—APPROVED BY THE WATER WORNS.		THE WAYS AND CHING THE ESTRONGWAYS AND PROPERTY AND ALL DAMAGE CAUSED TO PESSING WHITE MAN, COORDINATION OF THE WAY AND ALL DAMAGE CAUSED TO PESSING MAN COORDINATION OF
		4610 A MANUFACTURED BY THE BMA COMPANY. OR APPROVED EQUAL SHALL BWANGS AS AMAUFACTURED BY THE BMA COMPANY. OR APPROVED EQUAL SHALL BWANGS AS AMAUFACTURED BY THE BMA COMPANY. OR APPROVANTE CENTERING BE PLACE ADOIND THE WATER MAN POR PER COMPANY. OR APPROVANTE CENTERING WHIN THE CARRETE PPER AND TO PREVENT DAMAGE DURING INSTALLATION AND SHALL BY CORPUSE PRECIPIE CELL CHOCKS SHALL BE TYPE USE ATSMILESS STELL WITH ELASTOMETRIC PNC LINER PER ASTW 1044, CHOCKS SHALL BE CENTER			AVE BOXES SHALL BOXES SHALL BE BOXES SHALL BE SHALL BOXES AND		WATER SERVER INTERPREDAYON WHI CHITY PERSONAL AND ALL MATERIALS AND LABOR EACUIED TO CONNECT TO THE EXISTING WATER MAIN. EACH CONNECTION TO AN EXISTING 8" WATER MAIN SHALL BE COUNTED FOR PAYMENT.
		RESTRANGE INSTALLATION STALL CONFORM TO THE LATEST EDITION AWAY C-600 MOD MANUFACTURERS' RECOMMENDATIONS. MEASUREMENT AND PAYINGT SHALL BE MADE FOR UNEAR FIET OF CASHG AND MATER MANI IN FLACE, COMPLETED AND APPROVED. THE REQUIRED CASHG CHOCKS AND CASHG END SEAL SHALL BE INCLUDED.			4). DIS SANT, IER L'ABELTO, WATER, WITH A RASED LETERONG. 5). A #6 (STANDARD) SEPARATE FILL POT BASE SHALL BE USE. 6). BOTTON SECTION SHALL BE 24" OF 1". TO SECTIONS SHALL BE 20" OF 16". MIDDLE SCTIONS IF REQUIRED SHALL BE 24". <u>38". BOTTON SECTIONS SHALL</u> NEXER BE USED, TRUE DUTINN OF AN HODIFCATIONS TO THE VALVE BOX.	0180 2599-9999005	OZ TAND PLUE EXISTING 6" WATER MAIN CONTROCT UNIT PRICE PER EAS SYALL BE FILL COMPENSATION FOR ALL MATERIAL AND LABOR REQUIRED TO CUT AND PLUO THE NEW WATER MAIN. THIS WORK SHALL ONLY BE PERFORMED WITH WITTER WORKS FERSONNEL PRESENT.
0900	2554-0202200	EITING BY COUNT, MECHANINGAL JOINT TEE (D.I.P.), BYR ³ XB.* CONTRACT UNIT PRICES SHALL INCLUDE ALL COSTS FOR THE CONTRACTOR FURNISHING AND INSTALLING WECHANICAL JOINT TEES AND RETAINER GLANDS.			CONTRACT UNIT PRICE SHALL INCLUDE ALL COSTS FOR THE CONTRACTOR ADJUSTION TOPS AND NEW VALVE BOXES TO FINISH GRADE IN PAYED AND NON-PARED AREA. MEASUREMENTS AND PAYMENT SHALL BE MADE FOR EACH PROPERLY INSTALLED		CONTRACT UNIT PRICE SHALL BE FULL COMPENSATION FOR LOCATING, EXPOSING, CLEMBIA, AND CUTTING HE EXSTRING WATER MAIN, REPORTING WATER MAIN EXPONENT ON WHER SERVICE INTERPRETED WITH CHAPT PRESCRIAN AND ALL MATERIALS AND LABOR PREFINENT TO CONSISTING WATER MAIN.
		RETANER GLANDS SHALL BE SET SCREWS SHALL BE THE TOPOR METER BEST STOOM WELL-ANNY INC. JUILT-TORN SCREWS, STAR PIPE PRODUCTS STARGEP SERES 3000 MECHANICA, DAINT WIDGE ACTION RESTRAINING THE BENCE OFFI TORION TOWN SIGNAL ONE—LOW WEDGE ACTION RESTRAINING GLAND OR APPROVAL EDUAL.			GATE VALVE BOX. BASS FOR PAYMENT SHALL BE FULL COMPENSATION FOR TRANSPERSARY TO COMPLETE THE WORK. MATERIAL, LABOR, TOOLS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.		EACH CONNECTION TO AN EXISTING 8" WATER MAIN SHALL BE COUNTED FOR PAYMENT.
		MEASURBLENT AND PAYMENT SHALL BE MADE FOR EACH PROPERLY INSTALLED TEE. BASIS FOR PAYMENT SHALL BE RULL COMPENSION FOR LINENSHING ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.					

SHEET NO. M.12

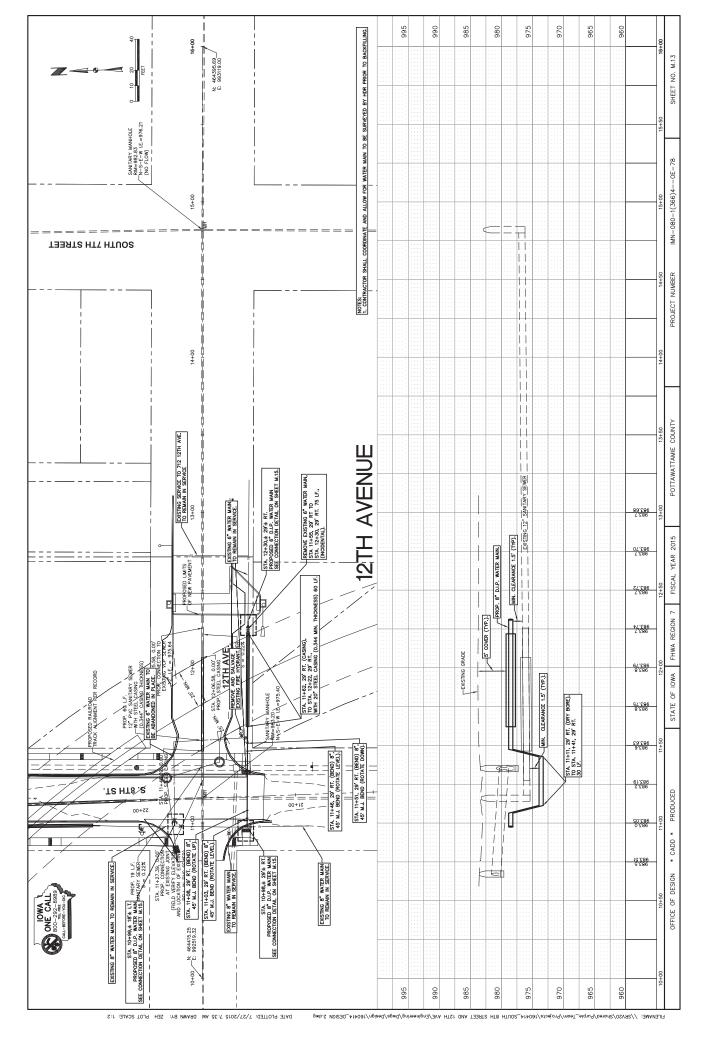
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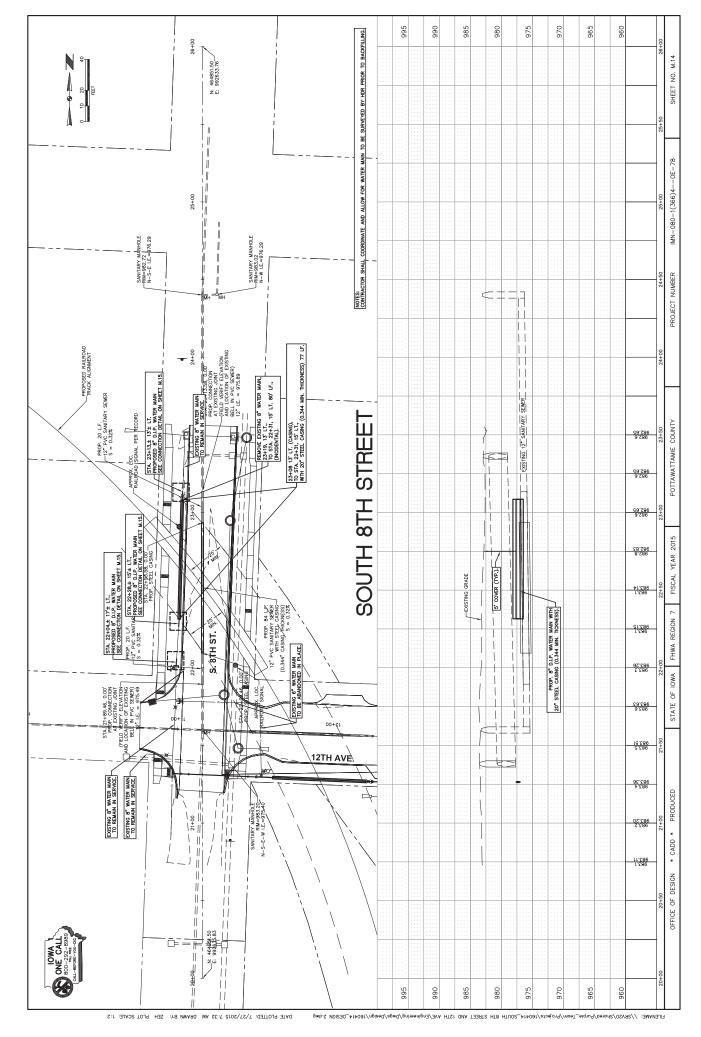
POTTAWATTAMIE COUNTY

STATE OF IOWA FHWA REGION 7 FISCAL YEAR

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