



*Sedgwick County...
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Public Works

1144 S. Seneca, Wichita, KS 67213-4443 - www.sedgwickcounty.org - TEL: 316-660-1777 - FAX: 316-660-1875

David C. Spears, P.E.
Director/County Engineer

ADDENDUM NO. 1

Sedgwick County Project: 628-28-5200; Bridge on MacArthur Road between Hydraulic & K-15 (B483)

The items contained herein now become a part of the referenced plans and specifications. Please read the following items and acknowledge receipt of this addendum on the Proposal Page Number P-1. NOTE: THIS ADDENDUM MUST BE ACKNOWLEDGED TO CONSTITUTE A VALID BID.

SPECS:

Replace Schedule of Prices sheet SOP-1 with SOP-1R.
Add General Notes sheet GN-1.

PLANS:

Replace Sh. No. 3 with Sh. No. 3R.
Replace Sh. No. 17 with Sh. No. 17R.
Replace Sh. No. 18 with Sh. No. 18R.

QUESTIONS AND ANSWERS

The following information is provided based on questions received from Plan Holders:

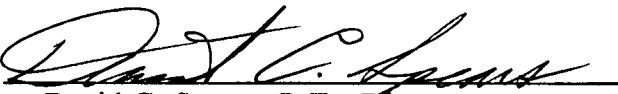
Question: What permits have been received for this project?

Sedgwick County has received permits for the project from DWR, USACoE, and KDWPT. This includes ECA responses from KSHS and KFS (Forest). No KDHE permit was required. The disturbed area within the project foot print is less than 0.9 acres.

Question: Does the Contractor need to acquire a permit for work in the river?

Depending on the "Means and Methods" proposed by the Contractor, it is likely the Contractor will need to obtain a Construction Permit from DWR for creating access to construct the Pier Remediation portions of the project.

The Ordinary High Water Elevation (OHW) is 1256.0 feet representing a flow rate of 3500 cfs. Top of footing elevations are shown on Sheet 34 as Elev. "A". Pier 3 is 1251.45 feet; Pier 4 is 1251.13 feet (based on original plans).

By: 
David C. Spears, P.E., Director,
Public Works/County Engineer

Date: December 10, 2015

SCHEDULE OF PRICES

PROJECT: 628-28-5200; Bridge on MacArthur between Hydraulic & K-15 (B483)

TYPE OF WORK: Bridge Rehabilitation (Deck Repair, Pier Remediation)

| Bidding Item | Approx. Quantity | Unit | Unit Price | Amount |
|---|---------------------|------|-------------|-------------|
| Contractor Construction Staking | 1 | L.S. | | |
| Field Office | 1 | Each | | |
| Traffic Control | 1 | L.S. | | |
| Mobilization | 1 | L.S. | | |
| Area Prepared for Patching (Full Depth) | 83 | S.Y. | | |
| Area Prepared for Patching (Partial Depth) | 108 | S.Y. | | |
| Removal of Existing Structure | 1 | L.S. | | |
| Falsework Inspection | 1 | L.S. | | |
| Concrete (Grade 4.0)(AE)(SA) | 296.0 | C.Y. | | |
| Reinforcing Steel (Grade 60) (Epoxy) | 167,080 | Lbs. | | |
| Multi-Layer Polymer Concrete Overlay | 2,712 | S.Y. | | |
| Reinforcing Steel (Repair)(Grade 60)(Epoxy) | 1,000 | Lbs. | | |
| End Post Repair | 12 | Each | | |
| Post Repair | 47.0 | Each | | |
| Rail Repair | 6 | L.F. | | |
| Drilling and Grouting | 490 | Each | | |
| Erosion Control | 1 | L.S. | | |
| Permanent Marking | 1 | L.S. | | |
| Seeding | 1 | L.S. | | |
| Concrete (Grade 4.0) | 440 | C.Y. | | |
| Drilling and Grouting (Special) | 256 | Each | | |
| Micropile | 1,064 | L.F. | | |
| Mobilization - Micropile (Set Price) | 1 | L.S. | \$15,000.00 | \$15,000.00 |
| Sheetpile (PZ 22) | 6885 | S.F. | | |
| Grand Total | | | | |

In Words:

DOLLARS

Company or Firm Name

BY _____

TITLE _____

SPECIAL PROVISION

GENERAL NOTES

MULTI-LAYER POLYMER CONCRETE OVERLAY: The polymer overlay quantity represents application to the entire horizontal bridge deck surface and a 1'-1" height on all posts, three sides. The vertical slab face (edge of slab) shall be finished for a neat appearance, either kept clean or polymer material brushed smooth. This work is subsidiary to the bid item "Multi-Layer Polymer Concrete Overlay."

MICROPILE: For Information Only.

Micropile concepts were discussed with Hayward-Baker representative Billy Fisher (Mobile 817.999.4699). If Sedgwick County determines that the Micropile installation will not be used, the "Option B – Additional Quantity" items shown on Sh. No. 3 in Summary Table – Pier Remediation Quantities (Information) will be underrun in their entirety.

END POST REPAIR: End post repair shall consist of repairing the existing barrier end posts as shown in the plans. End posts shall be built back to existing geometry with existing reinforcing steel or new to match previous reinforcing per existing plans. All costs of the end post repair including material, labor, equipment, and incidentals necessary to complete the work as specified shall be bid as End Post Repair (EA).

POST REPAIR: Post repair shall consist of repairing the existing barrier posts as shown in the plans. Posts shall be built back to existing geometry with existing reinforcing steel or new reinforcing to match previous reinforcing per existing plans. All costs of the post repair including material, labor, equipment, and incidentals necessary to complete the work as specified shall be bid as Post Repair (EA).

RAIL REPAIR: Rail repair shall consist of repairing the existing barrier rails as shown in the plans. Rails shall be built back to existing geometry with existing reinforcing steel or new reinforcing to match previous reinforcing per existing plans. All costs of the rail repair including material, labor, equipment, and incidentals necessary to complete the work as specified shall be bid as Rail Repair (LF).

PIER REMEDIATION (Option A): See Pier remediation details for Pier #3 or #4 as typical. The work includes construction of a toewall perimeter around each pier both WB and EB as a combined toewall and apron. All costs of the rehab including material, labor, equipment, excavation and incidentals necessary to complete the work as specified shall be bid as noted.

PIER REMEDIATION (Option B): See Pier Remediation details for Pier #3 or #4 as typical. The work includes all construction items in Option A and additional items for Micropile installation and Footing reinforcement around each pier both WB and EB as a combined toewall and apron.

MOBILIZATION-MICROPILE (SET PRICE): At the discretion of the Engineer, Micropile (Option B) will be constructed, based on footing inspection after the sheet piling is installed, and footing site has been dewatered. If Micropile (Option B) is not used in this project, the Contractor is still entitled to payment for reserving personnel and equipment as "Mobilization - Micropile (Set)". Micropile operations must begin within 3 days from the date requested by the Engineer. Permit restrictions place a tight timeline on performance of construction activities below Ordinary High Water. Refer to Project permits for limitations on river access between April 1st and August 31st.

DRILLING AND GROUTING (SPECIAL): Drilling and Grouting (Special) Bid item for Pier Remediation Option B covers the installation of footing dowel bars. The tools, materials, labor and incidentals necessary to complete the work shall be included in the per Each bid item "Drilling and Grouting (Special)".

MICROPILE: Micropile will be installed in accordance with the details as shown on the Pier Remediation Option B detail sheet. The micropile will be a 6" diameter drilled hole to the depth shown and one #9 size grade 60 non-epoxy coated reinforcing bar from the bottom of the hole and extended 6" above the design top of micropile. The top 5 feet (5') of the micropile will have a 5/2" diameter standard industry permanent casing "plunged" into the micropile.

GENERAL NOTES

The contractor performing the work described in the specification shall have installed Micropiles for a minimum of five years. At the time of bid, the contractor shall submit a list containing at least five projects on which the contractor has installed Micropiles. A brief description of each project and a reference shall be included for each project listed. As a minimum, the reference shall include an individual's name and current phone number.

Prior to the start of work, the contractor shall submit a list identifying the engineer, drill operators and on-site supervisors who will be assigned to the project. The list shall contain a summary of each individual's experience and it shall be complete enough for the Engineer to determine whether or not each individual has satisfied the following qualification.

The contractor shall assign an engineer to supervise the work with at least three years of experience in the design and construction of Micropiles. The use of consultants or manufacturer's representatives does not satisfy the requirements of this section. Drill operators and on-site supervisors shall have a minimum of one year experience installing Micropiles with the contractor's organization.

The engineer shall approve or reject the contractor's qualifications and staff within 5 working days after receipt of the submission. Work shall not be started on any piling nor any materials ordered until approval of the contractor's qualifications is given. The engineer may suspend the Micropile work if the contractor substitutes unqualified personnel for approved personnel; the contractor shall be fully liable for additional costs resulting from the suspension of work and no adjustment in contract time resulting from the suspension of work will be allowed.

Also, the contractor shall submit a detailed narrative within his proposal describing the construction method he intends to employ and encompassing all aspects, peripheral or otherwise, of his site operation.

Type I, II or III conforming to AASHTO M85 shall be used for grout. In some applications where voids exist, sand may be added to the grout.

Admixtures which control bleed, improve flowability, reduce water content and retard set may be used in the grout subject to the approval of the engineer. Admixtures, if used, shall be compatible manufacturer's recommendation.

Water for mixing grout shall be potable.

Mill test reports for the all thread bar: pipe wall thickness, pipe diameter, and steel type will be provided.

Unless otherwise directed, core drilling, rotary drilling, auger drilling or other acceptable means may be used. The Micropile can be installed in the drill hole after drilling or it can be advanced by the drill.

The contractor shall use a neat cement grout or a sand-cement grout with a minimum 28 day unconfined compressive strength of 4,000 psi. The cement shall not contain lumps or other indications of hydration. Admixtures, if used, shall be mixed in accordance with the manufacturer's recommendation.

The grouting equipment shall produce a grout free of lumps and undispersed cement. The pump shall be equipped with a pressure gauge to monitor grout pressures. The pressure gauge shall be capable of measuring pressure of at least 150 psi or twice the actual grout pressures used by the contractor, whichever is greater. The grouting equipment shall be sized to enable the grout to be pumped in one continuous operation. The mixer should be capable of continuously agitating the grout.

The grout shall be injected from the lowest point of the drill hole. The grout may be pumped through grout tubes, casing, hollow-stem-augers or drill rods. The quantity of the grout and the grout pressures shall be recorded. The grout pressures and grout takes shall be controlled to prevent excessive heave in cohesive soils or fracturing of rock formations. The entire Micropile shall be filled with grout.

Upon completion of grouting, the grout tube may remain in the hole but it shall be filled with grout.

After grouting, the Micropile shall not be loaded for a minimum of three days.

UTILITIES

AT&T
Jason Edwards
316-268-2008
jel682@att.com

Cox Communications
Marc Henderson
316-260-7745
marc.henderson@cox.com

Century Link
Brian Cornish
913-345-7524 Office
913-484-4526 Cell
brian.cornish@centurylink.com

Indian Nations Fiber Optic
Dale Fitzwater
1-800-622-3702
dalef@infiberoptics.net

Kansas Gas Service
Jim Coe
316- 832-3126
james.coe@onegas.com

Westar Energy
Zach Laws
316- 261-6264
zachary.laws@westarenergy.com

Phillips 66 Pipeline
Scott Salisbury
316-681-2081, ext. 12
Cell 316-737-4164
scott.c.salisbury@p66.com

US Sprint
McCoy Ingalls
404-396-9726
mccoy.w.ingalls@sprint.com

Wichita - Water
Greg Lolley
316-268-4334
glolley@wichita.gov

Wichita - Sanitary Sewer
LaDonna Lawrenz
316-268-4329
llawrenz@wichita.gov

Wichita - Storm Sewer
Joe Hickle
316-268-4307
jhickle@wichita.gov

Southern Star Central Gas Pipeline
Stacy Catlin
316-529-6620
stacy.e.catlin@sscgpc.com

REVISED PLANS

| COUNTY | STATE | PROJECT NUMBER | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|----------|--------|----------------|-------------|-----------|--------------|
| SEDGWICK | KANSAS | B483 | 2016 | 3R | 44 |

RECAPITULATION OF QUANTITIES

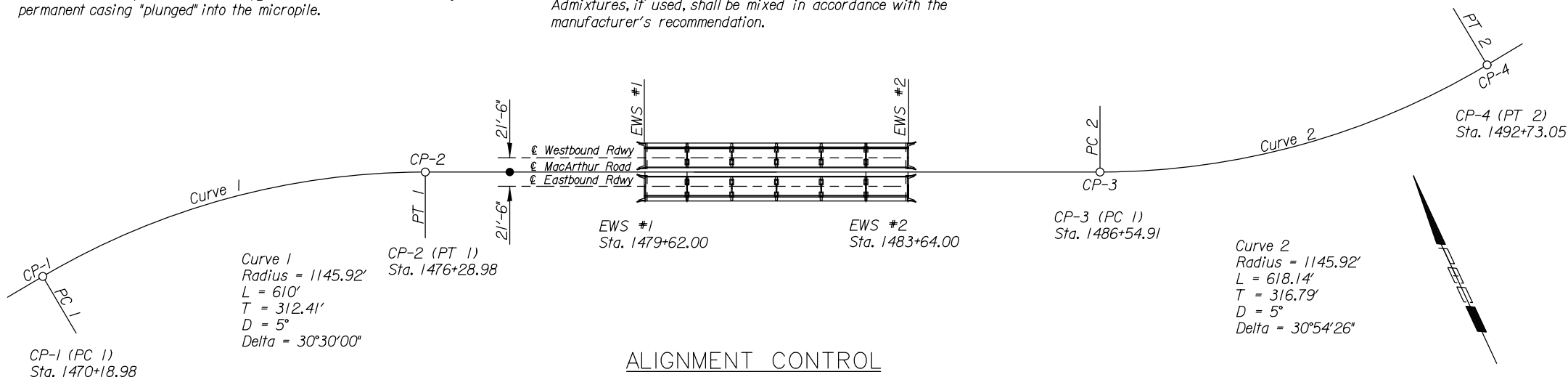
| ITEM | QUANTITY | UNIT |
|---|----------|------|
| Contractor Construction Staking | 1 | LS |
| Field Office and Laboratory (Type A) | 1 | EA |
| Traffic Control | 1 | LS |
| Mobilization | 1 | LS |
| Area Prepared For Patching (Full Depth) | 83. | SY |
| Area Prepared For Patching (Partial Depth) | 108. | SY |
| Removal of Existing Structure | 1 | LS |
| Falsework Inspection | 1 | LS |
| Concrete (Grade 4.0)(AE)(SA) | 295.6 | CY |
| * Reinforcing Steel (Grade 60)(Epoxy) | 167,080 | Lbs. |
| Reinforcing Steel (Repair)(Grade 60)(Epoxy) | 1000 | Lbs. |
| Multi-Layer Polymer Concrete Overlay | 2,712 | SY |
| End Post Repair | 12 | EA |
| Post Repair | 47 | EA |
| Rail Repair | 6.0 | LF |
| Drilling and Grouting | 490 | EA |
| Erosion Control | 1 | LS |
| Permanent Marking | 1 | LS |
| Seeding | 1 | LS |
| Concrete (Grade 4.0) | 439.8 | CY |
| Drilling and Grouting (Special) | 256 | EA |
| Micropile | 1,064 | LF |
| Mobilization - Micropile (Set Price) | 1 | LS |
| Sheet Pile (PZ 22) | 6,885 | SF |

△* Includes 35,516 Lbs. for Pier Remediation. See Summary Table.

SUMMARY TABLE

| Pier Remediation Quantities (Information) | | | | |
|---|------|----------|------------|----------|
| ITEM | UNIT | Option A | Option B | Bid Item |
| | | Base | Additional | |
| Concrete (Grade 4.0) | CY | 391.6 | 48.2 | 439.8 |
| Drilling and Grouting (Special) | EA | 0 | 256 | 256 |
| Sheet Pile (PZ 22) | SF | 6,885 | 0 | 6,885 |
| Micropile | LF | 0 | 1,064 | 1,064 |
| Mobilization - Micropile (Set Price) | LS | 0 | 1 | 1 |

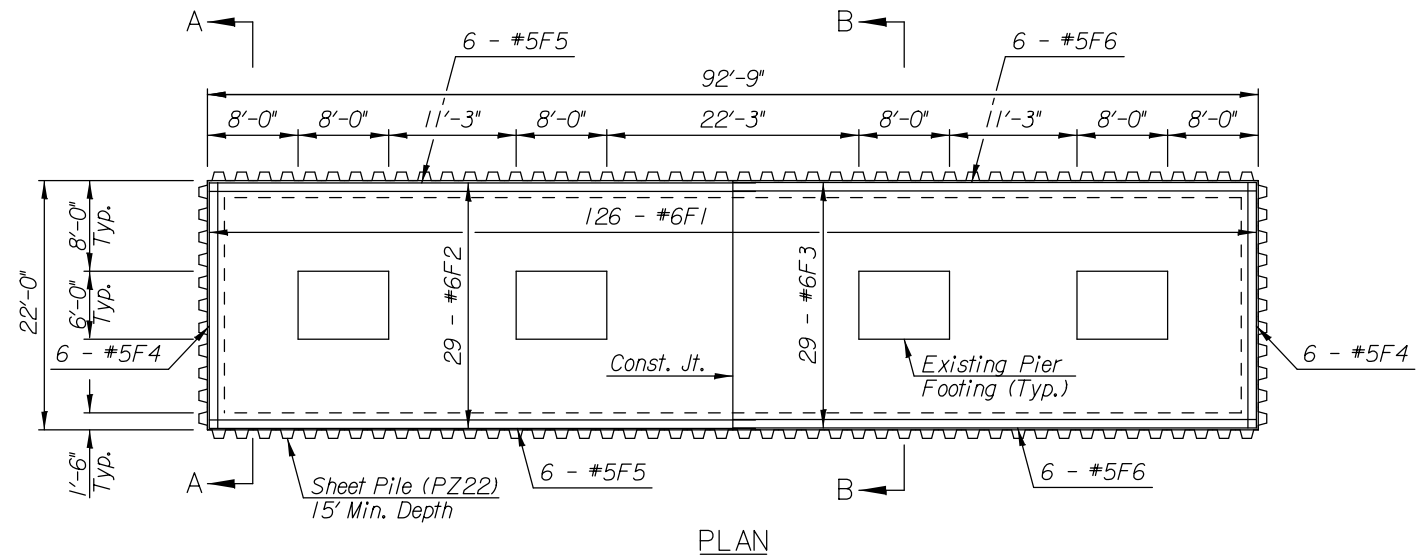
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Date: \$DATES
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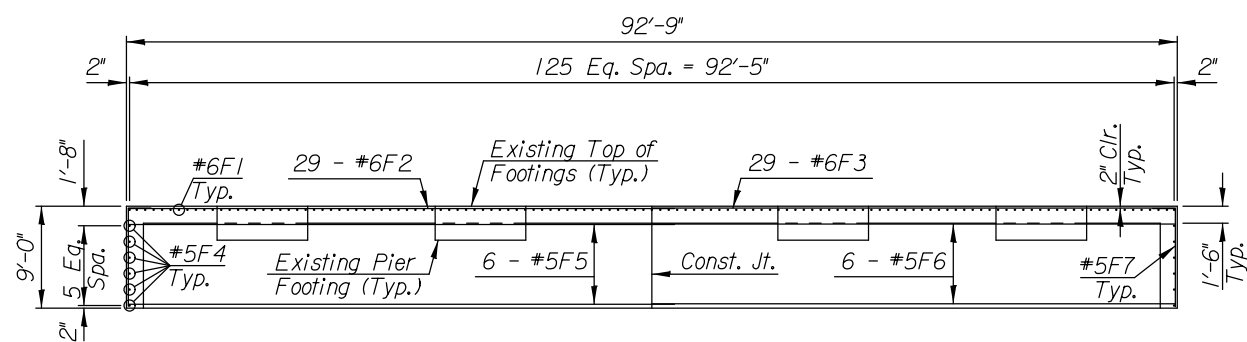
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|---|--------------------|---------------|
| Revised Quantity | RAS | 12-10-2015 |
| No. | Revision | By Date |
| SEDGWICK COUNTY PUBLIC WORKS | | |
| STR. NO. 000870823906280 | STA. 1481+63.00 | |
| GENERAL NOTES & QUANTITIES | | |
| PROJECT NO. B483 (628-28-5200) | SEDGWICK CO. | |
| PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com | | |
| Designed by RAS | Job No. 15121 | Sht. 3R of 44 |
| Drawn by WLL | Date November 2015 | |

REVISED PLANS

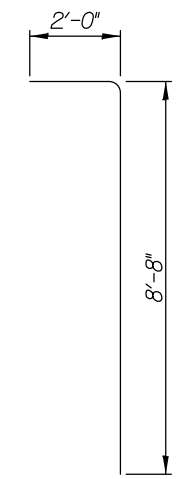
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|----------|--------|----------------|-------------|-----------|--------------|
| COUNTY | STATE | PROJECT NUMBER | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| SEDGWICK | KANSAS | B483 | 2016 | 17R | 44 |



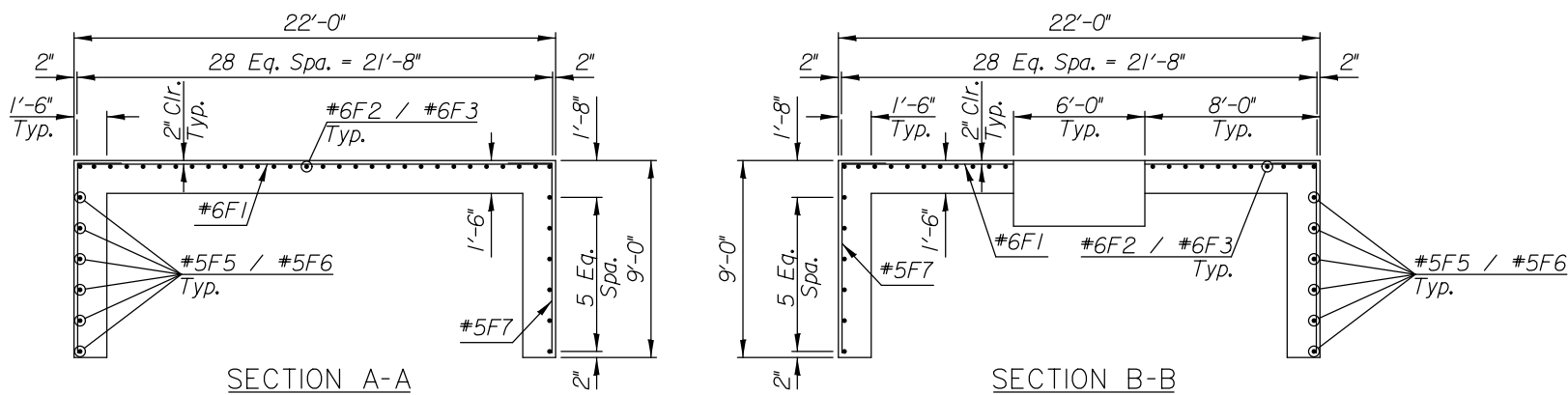
PLAN



ELEVATION
Typical for Pier #3 or Pier #4



E7
Lap to F1, F2, or F3 bars.



SECTION A-A

SECTION B-B

| REINFORCING STEEL / PIER | | | | | | | |
|--------------------------|------|--------|--------|------|------|--------|--------|
| STRAIGHT | | | BENT | | | | |
| MARK | SIZE | NUMBER | LENGTH | MARK | SIZE | NUMBER | LENGTH |
| † F1 | #6 | 126 | 21'-8" | F7 | #5 | 310 | 10'-8" |
| † F2 | #6 | 29 | 48'-3" | | | | |
| † F3 | #6 | 29 | 46'-2" | | | | |
| F4 | #5 | 12 | 21'-8" | | | | |
| F5 | #5 | 12 | 48'-3" | | | | |
| F6 | #5 | 12 | 46'-2" | | | | |

† Field cut to avoid existing pier footing (2" end clear).
2'-0" Minimum lap splice.

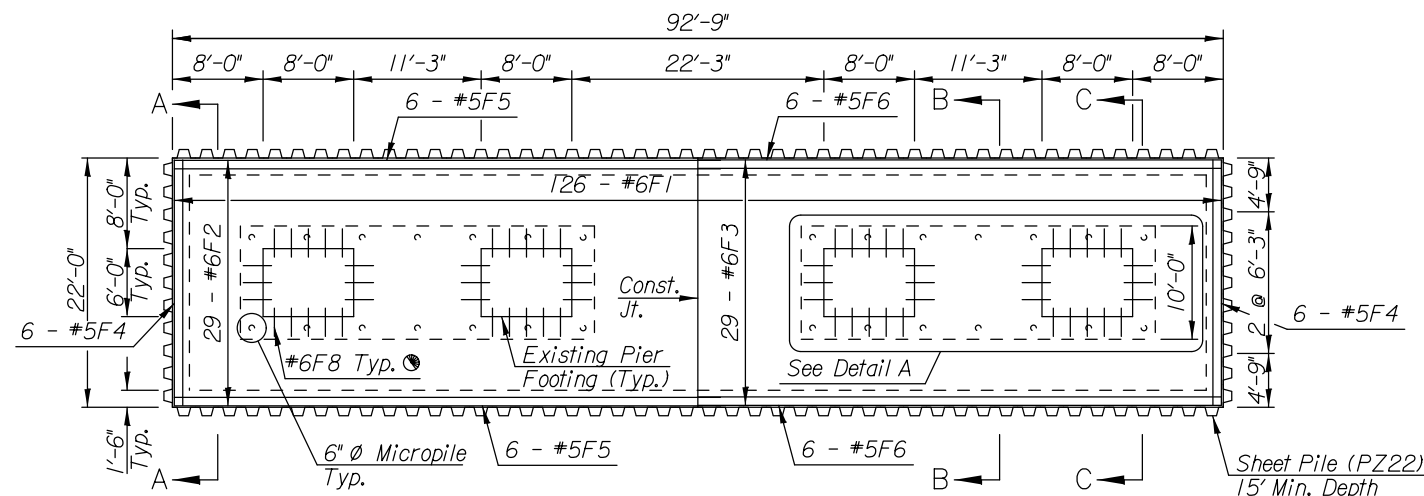
| BILL OF MATERIALS | | |
|-------------------------------------|----------|------|
| ITEM | QUANTITY | UNIT |
| Concrete (Grade 4.0) | 195.8 | CY |
| Reinforcing Steel (Grade 60)(Epoxy) | 13,115 | Lbs. |
| Sheet Pile (PZ22) | 3,442.5 | SF |

| | | | |
|---|----------|-----------------|----------------|
| Revised Quantity | | RAS | 12-10-2015 |
| No. | Revision | By | Date |
| SEDGWICK COUNTY PUBLIC WORKS | | | |
| STR. NO. 000870823906280 | | STA. 1481+63.00 | |
| PIER REMEDIATION OPTION A | | | |
| PROJECT NO. B483 (628-28-5200) | | SEDGWICK CO. | |
| PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com | | | |
| Designed by | RAS | Job No. | 15121 |
| Drawn by | WLL | Date | November 2015 |
| | | | Sht. 17R of 44 |

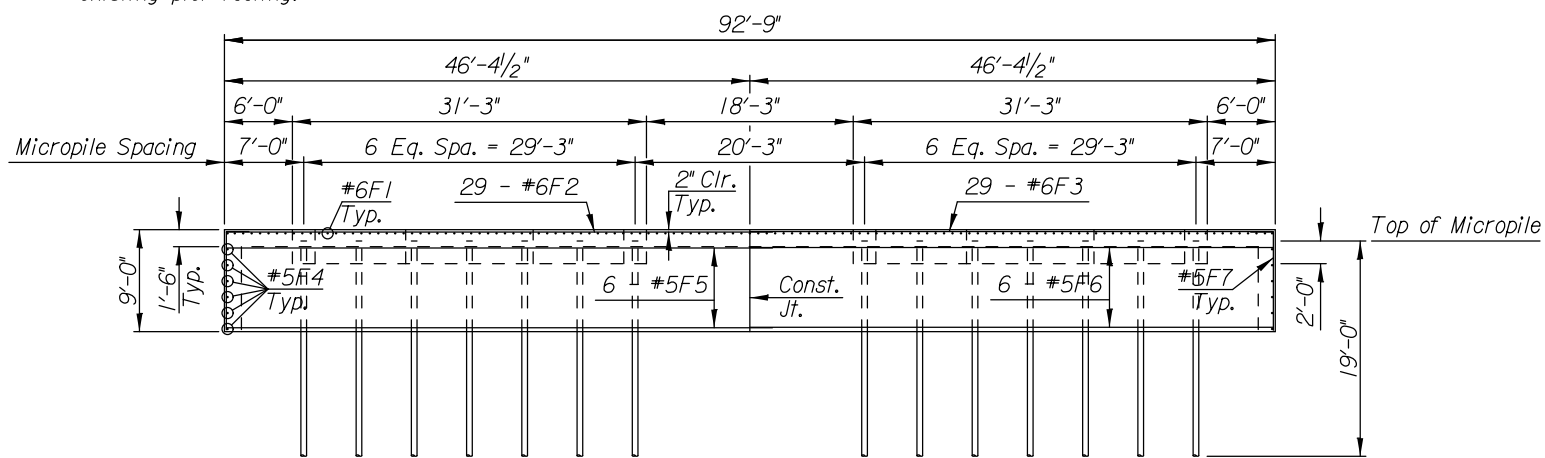
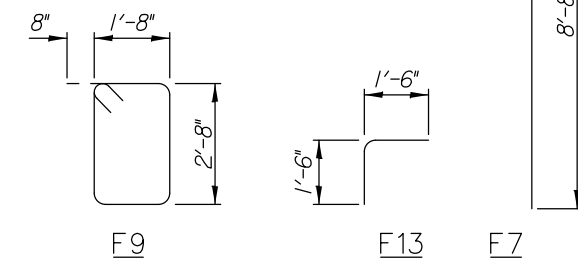
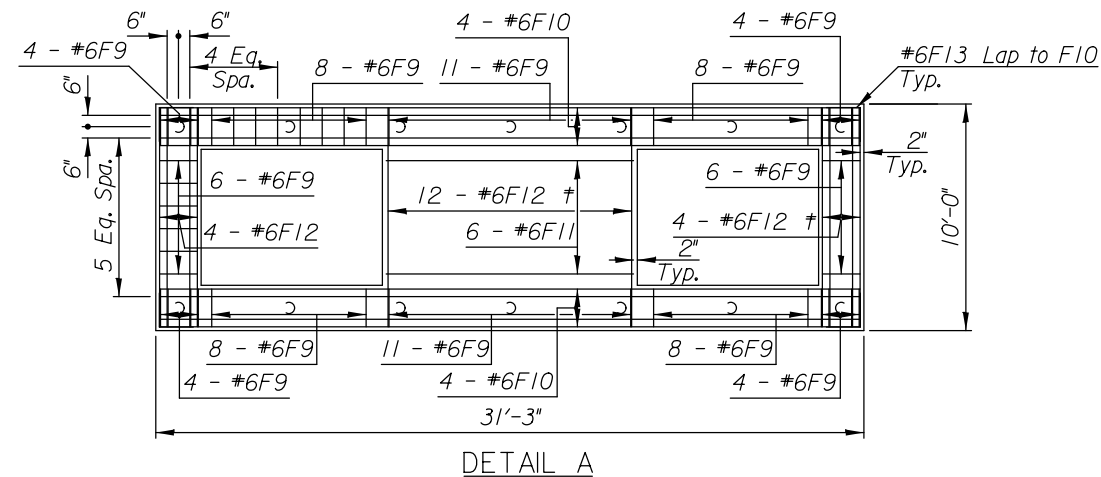
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REVISED PLANS

| | | | | | |
|----------|--------|----------------|-------------|-----------|--------------|
| COUNTY | STATE | PROJECT NUMBER | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| SEDGWICK | KANSAS | B483 | 2016 | 18R | 44 |



● Drill and grout 9" minimum embed. Space with every other F1 & F2/F3 Bar (5 bars along each 8'-0" side and 3 along each 6'-0" side of the existing pier footing). Center bars 4" clear from top or bottom of existing pier footing.



Typical for Pier #3 or Pier #4

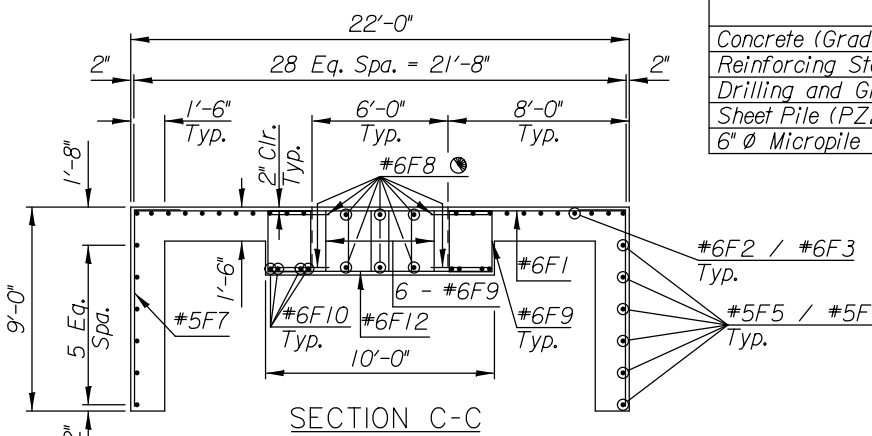
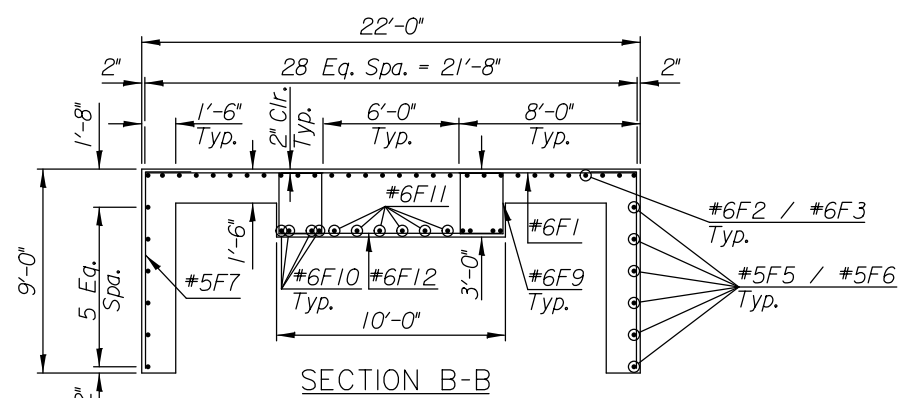
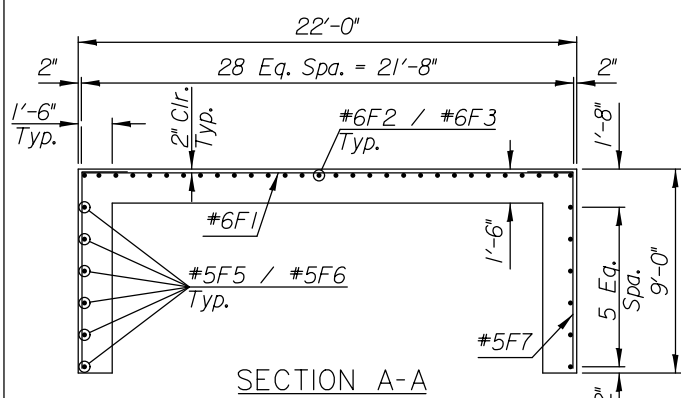
| REINFORCING STEEL / PIER | | | | | | | | |
|--------------------------|------|--------|--------|---------|------|--------|--------|--------|
| STRAIGHT | | | | BENT | | | | |
| MARK | SIZE | NUMBER | LENGTH | MARK | SIZE | NUMBER | LENGTH | |
| # | F1 | #6 | 126 | 21'-8" | F7 | #5 | 310 | 10'-8" |
| # | F2 | #6 | 29 | 48'-3" | F9 | #6 | 164 | 10'-0" |
| # | F3 | #6 | 29 | 46'-2" | F13 | #6 | 8 | 3'-0" |
| | F4 | #5 | 12 | 21'-8" | | | | |
| | F5 | #5 | 12 | 48'-3" | | | | |
| | F6 | #5 | 12 | 46'-2" | | | | |
| | F8 | #6 | 128 | 2'-7" | | | | |
| | F10 | #6 | 16 | 30'-11" | | | | |
| | F11 | #6 | 12 | 17'-11" | | | | |
| | F12 | #6 | 40 | 9'-8" | | | | |

† Field cut to avoid existing pier footing (2" end clear). 2'-0" Minimum lap splice.

Same Bars as Option A.

| BILL OF MATERIALS | | |
|-------------------------------------|----------|------|
| ITEM | QUANTITY | UNIT |
| Concrete (Grade 4.0) | 219.9 | CY |
| Reinforcing Steel (Grade 60)(Epoxy) | 17,758 | Lbs. |
| Drilling and Grouting | 128 | EA |
| Sheet Pile (PZ22) | 3,442.5 | SF |
| 6" ϕ Micropile | 532 | LF |

Plotted By: ros
 Date: \$DATES
 \$TIMES
 FILE: \$FILES



Revised Quantity

STR. NO. 000870823906280

PIER REMEDIATION OPTION B

PROJECT NO. B483 (628-28-5200)

SEDGWICK COUNTY PUBLIC WORKS

STA. 1481+63.00

SEDGWICK CO.

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com

Designed by RAS Job No. 15121
 Drawn by WLL Date November 2015

Sht. 18R of 44