

Section 00 9113
Addendum No. 1
April 15, 2021

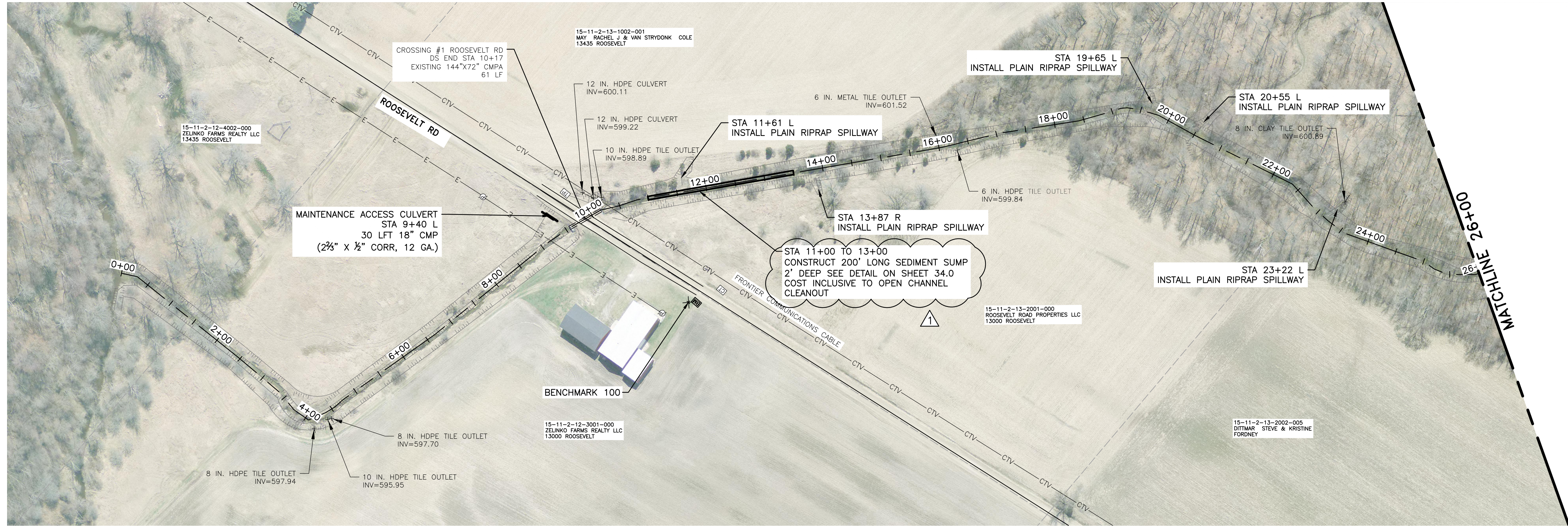
SHORTS CREEK DRAIN IMPROVEMENTS
OFFICE OF THE SAGINAW COUNTY PUBLIC WORKS COMMISSIONER
111 SOUTH MICHIGAN AVENUE, SAGINAW, MICHIGAN

To all prospective bidders and others concerned, YOU ARE HEREBY ADVISED THAT the Contract Documents for the above referenced Project are revised in the following particulars:

| <u>Sheet</u> | <u>Description of Change</u> |
|---------------------|---|
| 7.0-14.0, 17.0-29.0 | Plan and Profile Sheets modified the Clearing and Grubbing Table to change 10 feet to 40 feet width on the working side. |
| 7.0 | Sta 11+00 to Sta 13+00 added Sediment Sump to be inclusive to Open Channel Cleanout. |
| 34.0 | Added Detail for Maintenance Culvert Installation and revised the Existing Culvert Crossing Detail to specify minimum amount of riprap. |

This Addendum is hereby incorporated into the original Contract Documents for the bidding referred to above and is considered as binding as though originally appearing therein. RECEIPT OF THIS ADDENDUM MUST BE NOTED in the place provided on the Proposals of each Contract, page 00 4243-1.

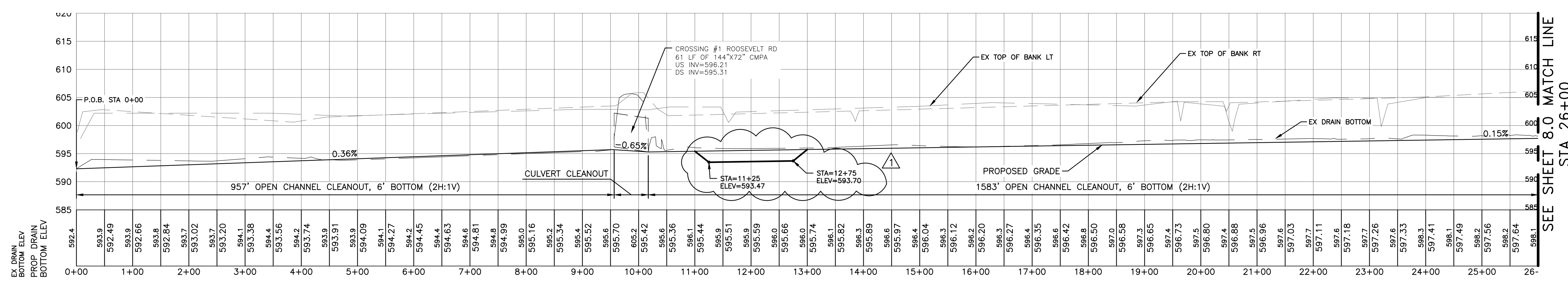
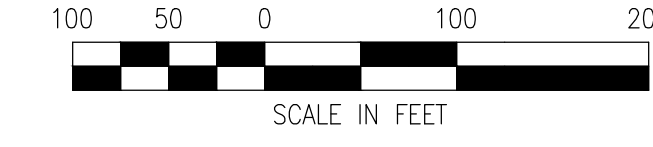
BENCHMARK #100
 N:6795.19.72
 E:13172298.06
 ELEV:608.79
 IRON ROD WITH CAP



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| P.O.B. | 1+80 | TYPE D | LEFT |
| 1+80 | 10+00 | TYPE C | LEFT |
| 10+00 | 26+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| P.O.B. | 1+80 | ℄ TO 40' | ℄ TO 10' |
| 1+80 | 10+00 | ℄ TO 40' | ℄ TO 10' |
| 10+00 | 26+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|-------|---|----------|
| ① T | P.O.B. | 26+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| ② T | P.O.B. | 26+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| ⑬ P | P.O.B. | 26+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 7 EA |
| ⑬ P | 3+50 | 4+50 | RIGHT | TOE OF SLOPE RIPRAP | 100 LFT |



Know what's below.
 Call before you dig.

| REV# | DATE | REVISER | DESCRIPTION |
|------|--------|---------|-------------|
| 1 | 4/9/21 | TJK | |

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 Flint, MI 48902
 810.228.4535
 www.wadetrims.com

SAGINAW COUNTY
 PUBLIC WORKS COMMISSIONER
 SHORTS CREEK DRAIN
 PLAN AND PROFILE

ISSUED FOR: DATE: BY:
 BIDDING: 3/22/21 TJK

JOB NO.
 SPW2007.01F

SHEET
 7.0

PROJECT MANAGER: JASON KEVON FIELD BOOK INFORMATION: 5:20 PLOTTED: 4/15/2021 4:21 PM BY: KRASENBRINK, TANNER

SHORTS CREEK DRAIN IMPROVEMENTS

BENCHMARK #103
 N:677821.04
 E:13170310.65
 ELEV:610.50
 IRON ROD WITH CAP



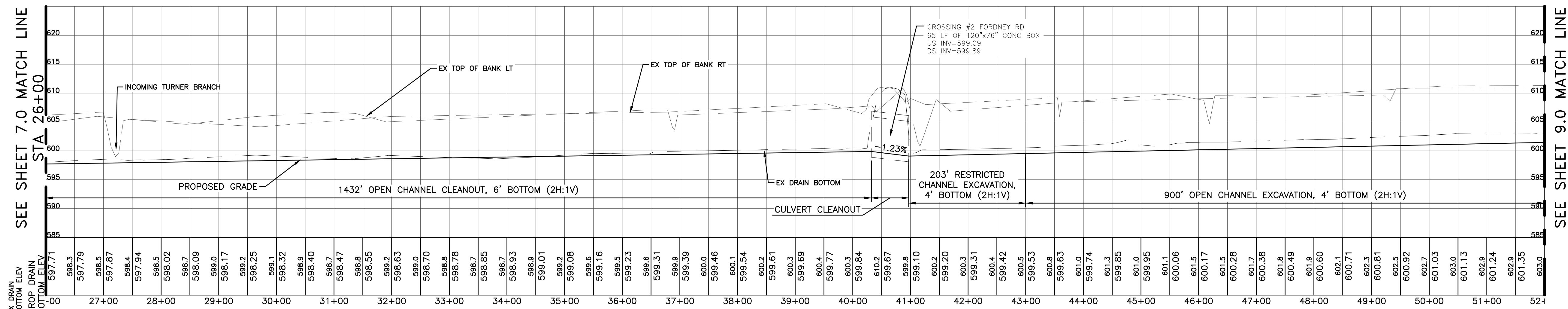
MATCHLINE 26+00
 TURNER BRANCH
 SEE SHEET 23.0

MATCHLINE 52+00

| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 26+00 | 34+30 | TYPE D | LEFT |
| 34+30 | 40+20 | TYPE C | LEFT |
| 40+20 | 43+00 | HAUL | RIGHT |
| 43+00 | 47+50 | TYPE A | RIGHT |
| 47+50 | 52+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 26+00 | 36+86 | ℄ TO 40' | ℄ TO 10' |
| 36+86 | 47+50 | ℄ TO 40' | ℄ TO 40' |
| 47+50 | 52+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|------|---|----------|
| (1/T) | 26+00 | 52+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 26+00 | 52+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 26+00 | 52+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 4 EA |



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KENYON; FIELD BOOK INFORMATION: CA:\PW\WORK\101026189\CSP-PLTS-SHORTS CREEK MAIN PLAN PROFILE.DWG - 8.0 - PLOTTED 4/15/2021 3:08 PM BY KRAGENBRINK, TANNER

| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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 SHORTS CREEK DRAIN
 PLAN AND PROFILE

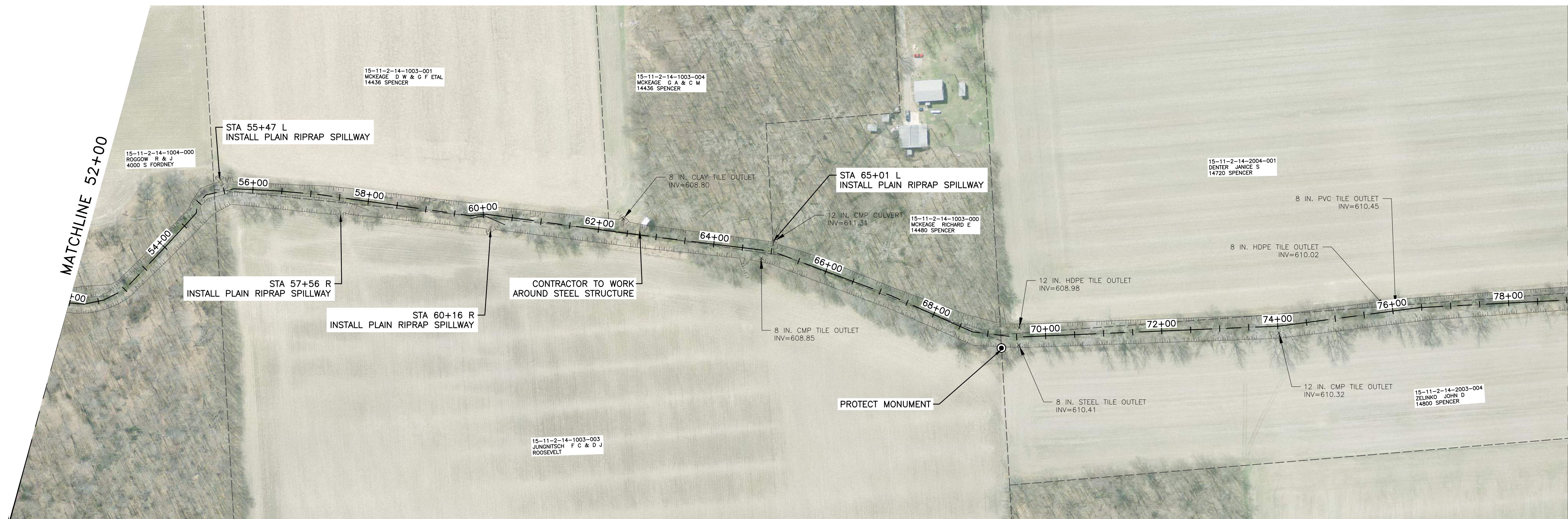
| | | |
|-------------|-------------|-----|
| ISSUED FOR: | DATE: | BY: |
| BIDDING | 3/22/21 | TJK |
| JOB NO. | SPW2007.01F | |
| SHEET | 8.0 | |

SHORTS CREEK DRAIN IMPROVEMENTS

PROJECT MANAGER: JASON KEVON, FIELD BOOK INFORMATION: CA:\PW\WORK\101020180_CSP-PLTS-SHORTS CREEK MAIN PLAN PROFILE.DWG - 9.0 - PLOTTED 4/15/2021 3:09 PM BY KRAGENBRINK, TANNER



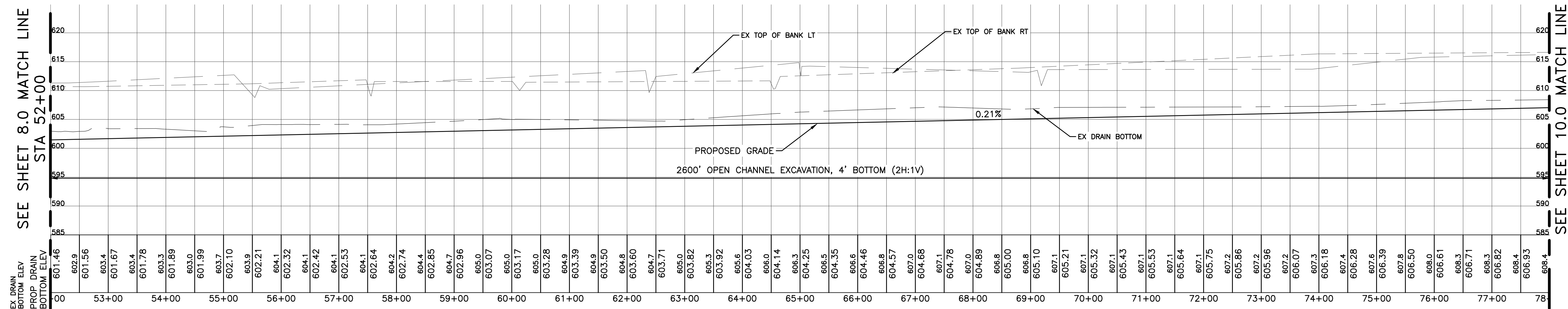
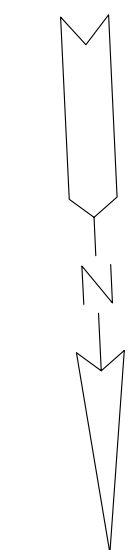
Know what's below.
Call before you dig.



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 52+00 | 55+51 | TYPE B | RIGHT |
| 55+51 | 69+21 | TYPE A | RIGHT |
| 69+21 | 78+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 52+00 | 55+51 | ℄ TO 10' | ℄ TO 40' |
| 55+51 | 69+21 | ℄ TO 10' | ℄ TO 40' |
| 69+21 | 78+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|------|---|----------|
| (1/T) | 52+00 | 78+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 52+00 | 78+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 52+00 | 78+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 6 EA |



| REV# | DATE | DESCRIPTION | BY |
|------|----------|-------------------------|-----|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 | TJK |

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SHORTS CREEK DRAIN

PLAN AND PROFILE

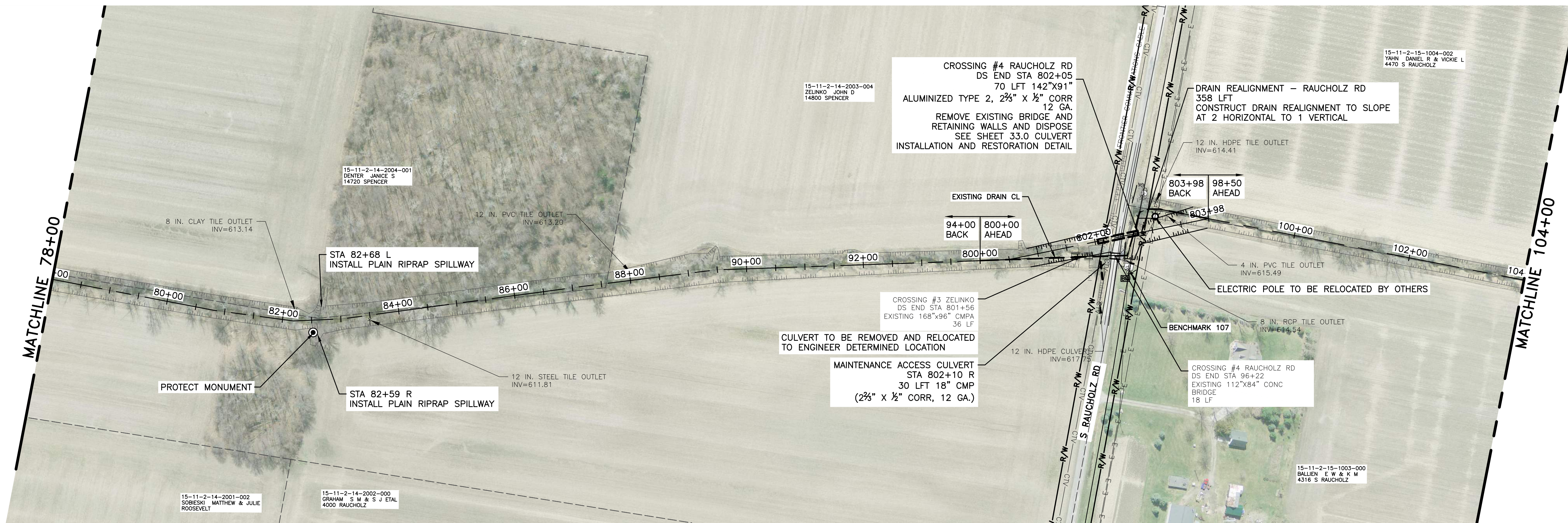
ISSUED FOR: BIDDING DATE: 3/22/21 BY: TJK

JOB NO. SPW2007.01F

SHEET 9.0

SHORTS CREEK DRAIN IMPROVEMENTS

BENCHMARK #107
 N:677152.12
 E:13164932.87
 ELEV:619.54
 IRON ROD WITH CAP

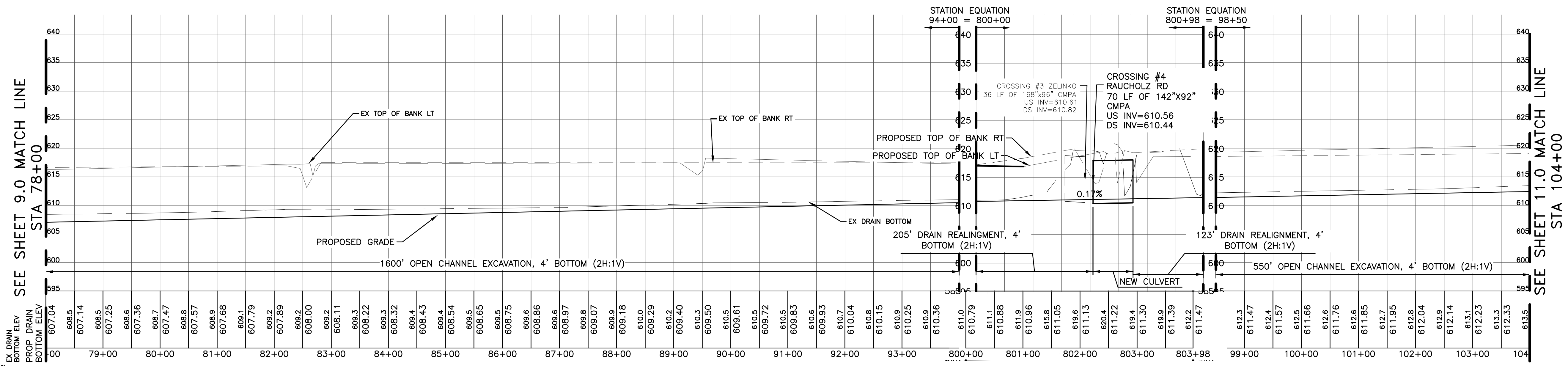


| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 78+00 | 104+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 78+00 | 96+30 | ℄ TO 10' | ℄ TO 40' |
| 96+30 | 104+00 | ℄ TO 10' | ℄ TO 40' |

STA 802+05
 CONTRACTOR TO CLOSE ROAD FOR CONSTRUCTION. TRAFFIC CONTROL SHALL BE AS STIPULATED BY THE CURRENT ISSUE OF THE MMUTCD AS AMENDED. CONTRACTOR SHALL OBTAIN PERMIT TO WORK WITHIN ROAD RIGHT-OF-WAY FROM SAGINAW COUNTY ROAD COMMISSION PRIOR TO WORK. SPOIL HAULING TO BE INCLUDED IN THE UNIT PRICE FOR OPEN CHANNEL EXCAVATION.

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|-------|---|----------|
| (1/T) | 78+00 | 104+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 78+00 | 104+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 78+00 | 104+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 5 EA |
| (16/P) | 96+72 | 96+87 | RIGHT | TOE OF SLOPE RIPRAP | 15 LFT |
| (16/P) | 97+32 | 97+62 | LEFT | TOE OF SLOPE RIPRAP | 30 LFT |



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KEVON; FIELD BOOK INFORMATION: CA:\PW\WORK\101026189\CSP-PLTS-SHORTS CREEK MAIN PLAN PROFILE.DWG; 10.0 - PLOTTED 4/15/2021 3:11 PM BY KRAGENBRINK, TANNER

| REV# | DATE | REVISION PER ADDENDUM #1 | TJK | BY |
|------|----------|--------------------------|-----|----|
| 1 | 4/9/2021 | | | |

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SAGINAW COUNTY
 PUBLIC WORKS COMMISSIONER
 SHORTS CREEK DRAIN

PLAN AND PROFILE

ISSUED FOR: BIDDING; DATE: 3/22/21; BY: TJK

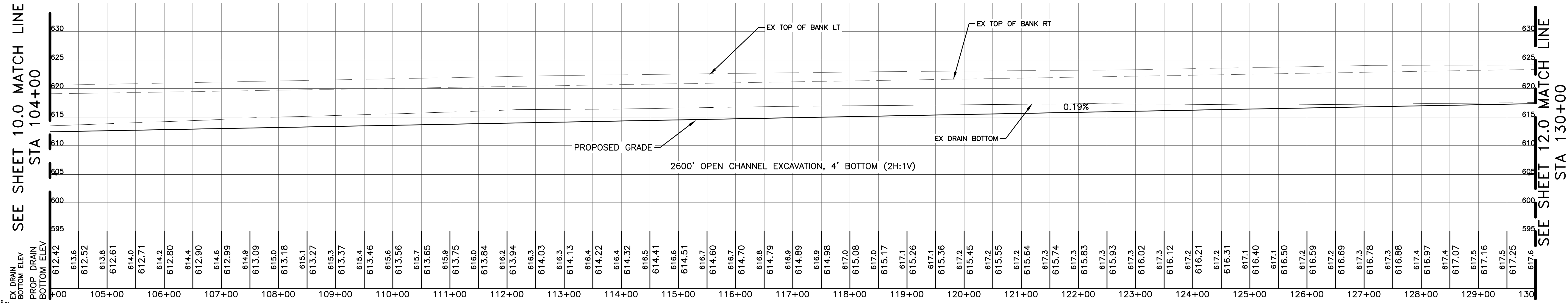
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SHEET 10.0

SHORTS CREEK DRAIN IMPROVEMENTS



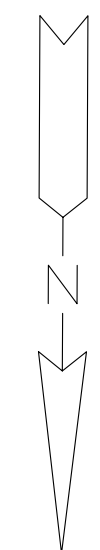
Know what's below.
Call before you dig.



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 104+00 | 130+00 | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 104+00 | 130+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 104+00 | 130+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 104+00 | 130+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 104+00 | 130+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



| REV# | DATE | DESCRIPTION | TJK | BY |
|------|----------|-------------------------|-----|----|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 | | |

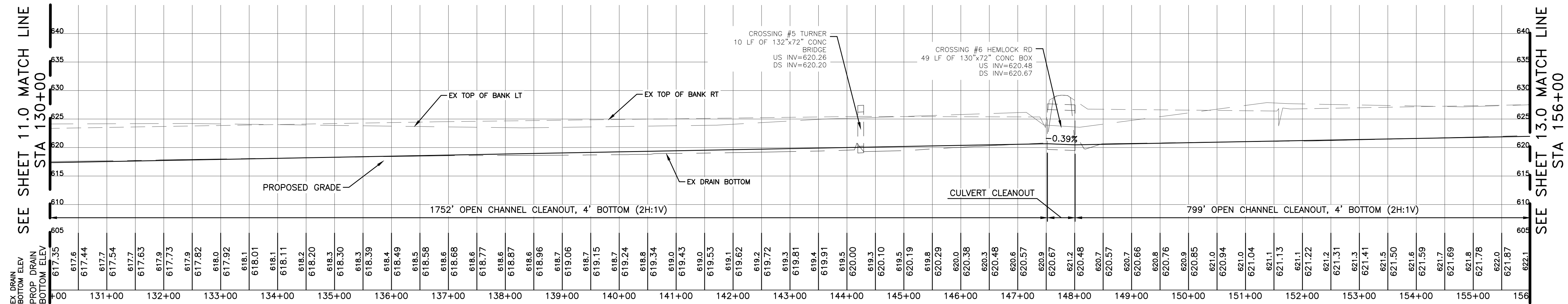
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| | | |
|---------------------|---------------|---------|
| ISSUED FOR: BIDDING | DATE: 3/22/21 | BY: TJK |
| JOB NO. SPW2007.01F | | |
| SHEET 11.0 | | |

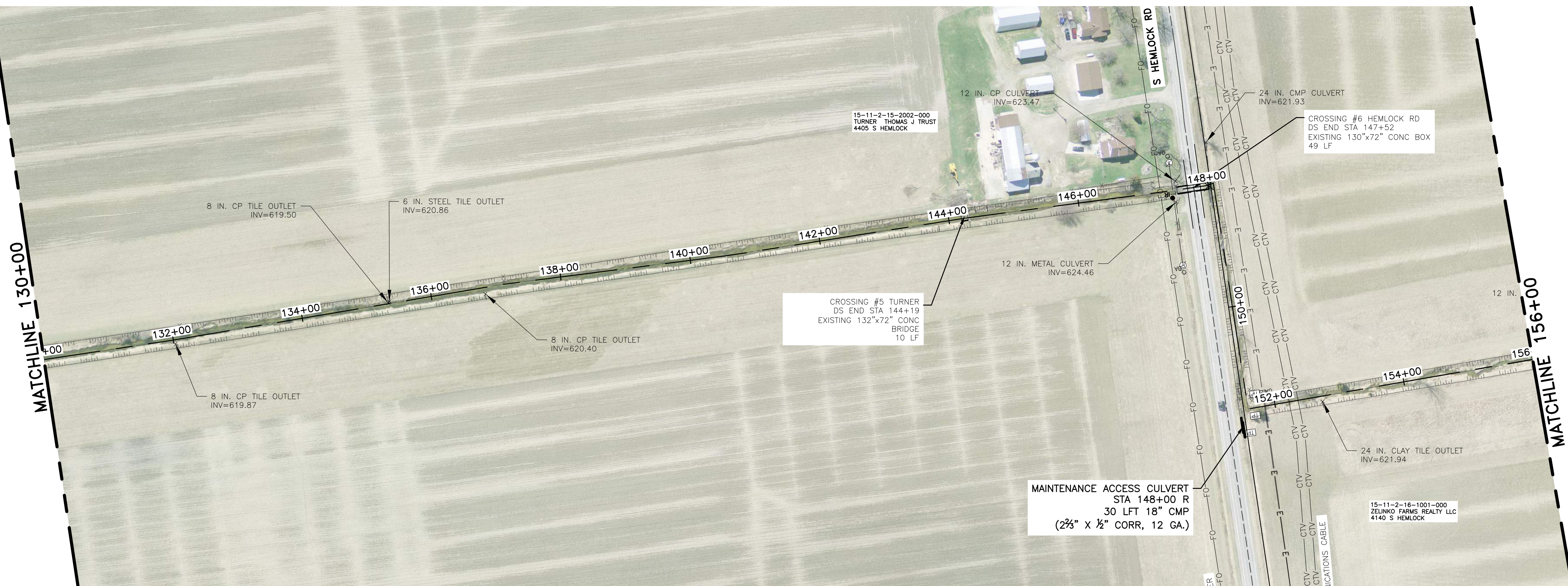


Know what's below.
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SEE SHEET 11.0 MATCH LINE
STA 130+00

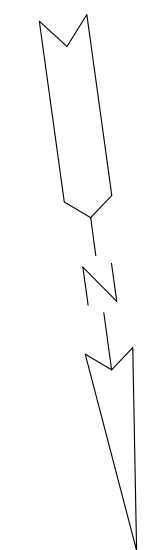
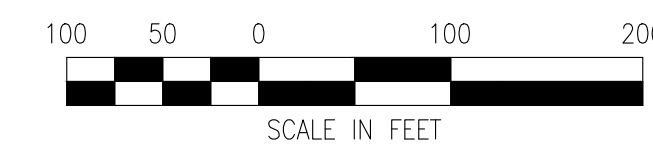
SEE SHEET 13.0 MATCH LINE
STA 156+00



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 130+00 | 156+00 | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 130+00 | 156+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|-------|---|----------|
| 1 T | 130+00 | 156+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 130+00 | 156+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 130+00 | 156+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |
| 16 P | 148+05 | 148+25 | LEFT | TOE OF SLOPE RIPRAP | 20 LFT |
| 16 P | 151+50 | 151+70 | RIGHT | TOE OF SLOPE RIPRAP | 20 LFT |



| REV# | DATE | REVISION PER ADDENDUM #1 | DESCRIPTION |
|------|----------|--------------------------|-------------|
| 1 | 4/9/2021 | | |

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SAGINAW COUNTY
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SHORTS CREEK DRAIN

PLAN AND PROFILE

ISSUED FOR: BIDDING DATE: 3/22/21 BY: TJK

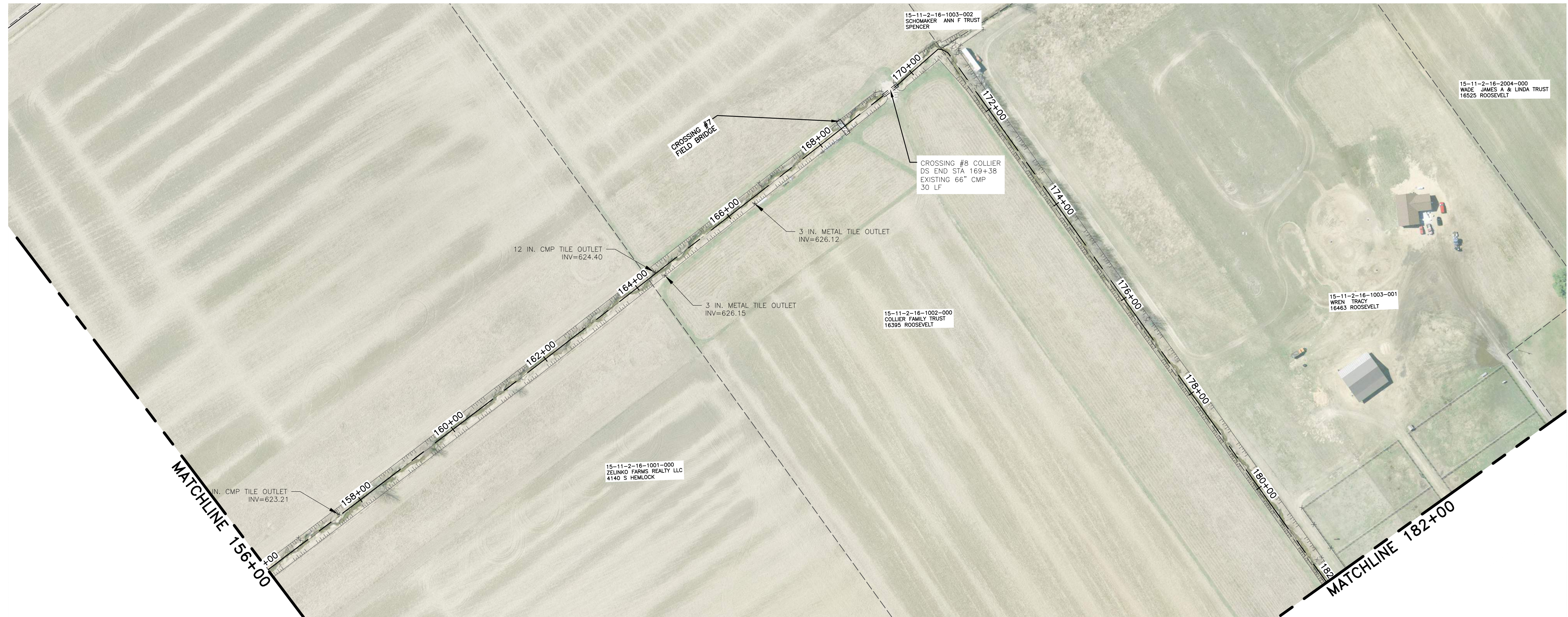
JOB NO. SPW2007.01F

SHEET 12.0

SHORTS CREEK DRAIN IMPROVEMENTS



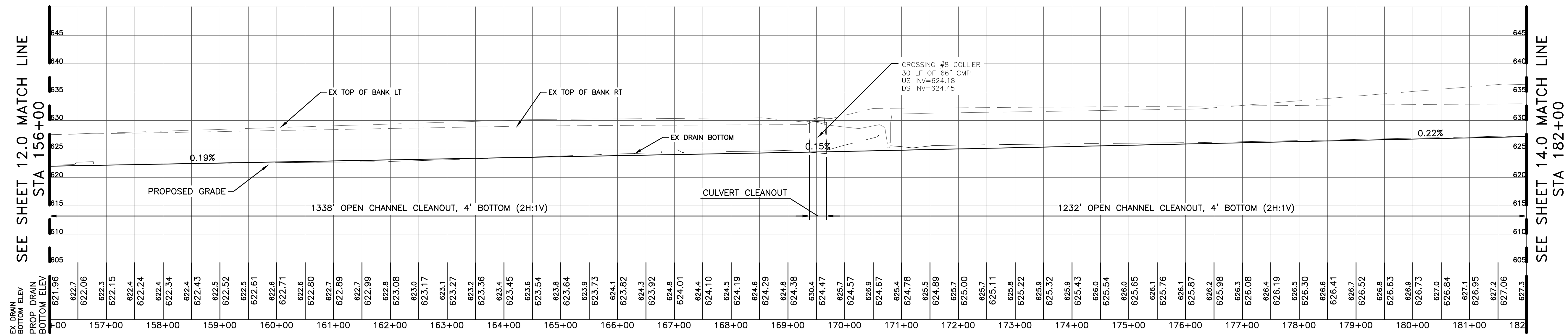
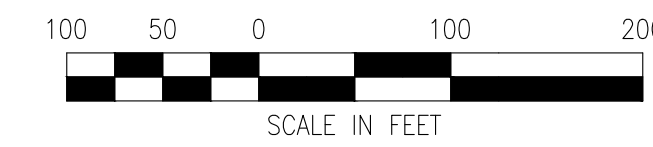
Know what's below.
Call before you dig.



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 156+00 | 182+00 | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 156+00 | 182+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|-----------|--------------|------------|------|---|----------|
| (1) T | 156+00 | 182+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2) T | 156+00 | 182+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19) P | 156+00 | 182+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 3 EA |
| (16) P | 170+50 | 170+70 | LEFT | TOE OF SLOPE RIPRAP | 20 LFT |



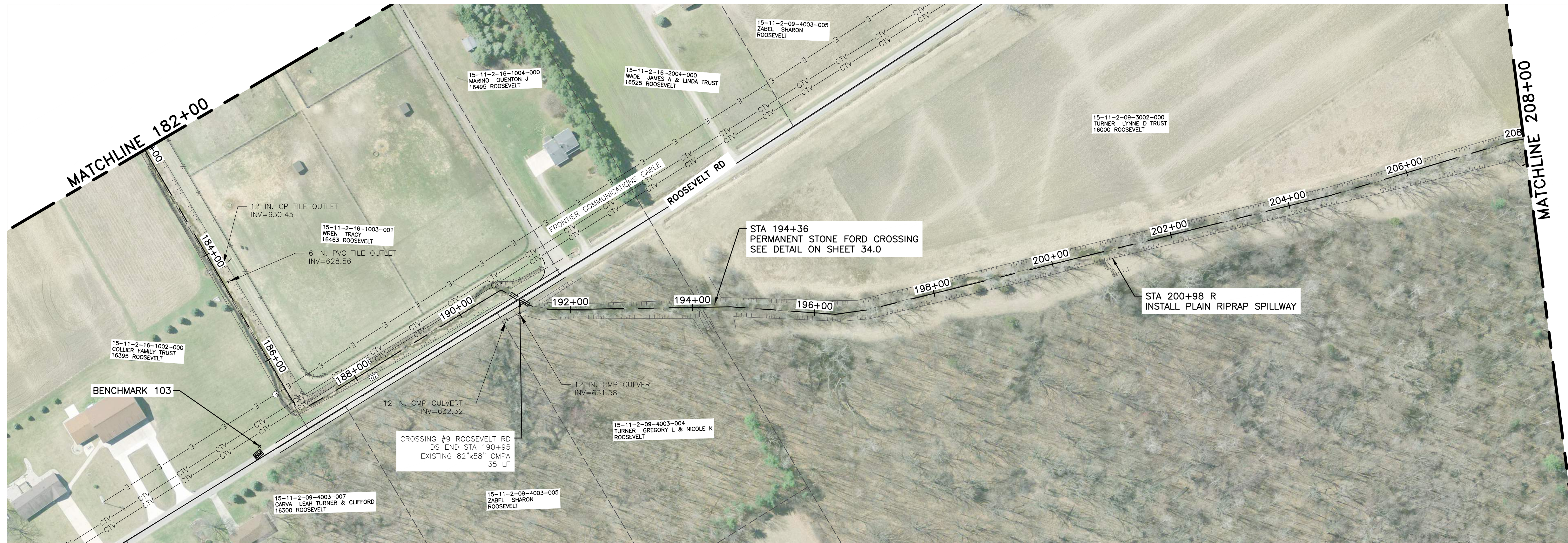
| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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| | | |
|---------------------|---------------|---------|
| ISSUED FOR: BIDDING | DATE: 3/22/21 | BY: TJK |
| JOB NO. SPW2007.01F | | |
| SHEET 13.0 | | |

BENCHMARK #103
 N: 678914.62
 E: 131158016.49
 ELEV: 634.97
 IRON ROD WITH CAP



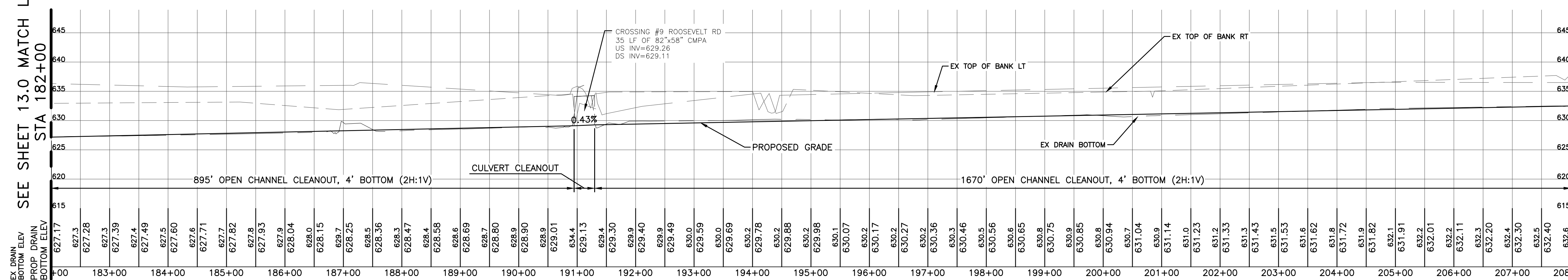
| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 182+00 | 191+00 | TYPE A | RIGHT |
| 191+00 | 208+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 182+00 | 208+00 | 0 TO 10' | 0 TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|-------|---|----------|
| (1/T) | 182+00 | 208+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 182+00 | 208+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 182+00 | 208+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |
| (16/P) | 176+75 | 177+10 | RIGHT | TOE OF SLOPE RIPRAP | 35 LFT |
| (16/P) | 190+60 | 190+90 | LEFT | TOE OF SLOPE RIPRAP | 30 LFT |



SEE SHEET 13.0 MATCH LINE
 STA 182+00



SEE SHEET 15.0 MATCH LINE
 STA 208+00



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KENYON, FIELD BOOK INFORMATION: CA:\PW\WORK\210226189\SP-PLS-SHORTS CREEK MAIN PLAN PROFILE.DWG, 14.0, PLOTTED 4/15/2021 3:14 PM BY KRAGENBRINK, TANNER

| REV# | DATE | REVISION PER ADDENDUM #1 | TJK | BY |
|------|----------|--------------------------|-----|----|
| 1 | 4/9/2021 | | | |

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PLAN AND PROFILE

ISSUED FOR: BIDDING, DATE: 3/22/21, BY: TJK

JOB NO. SPW2007.01F

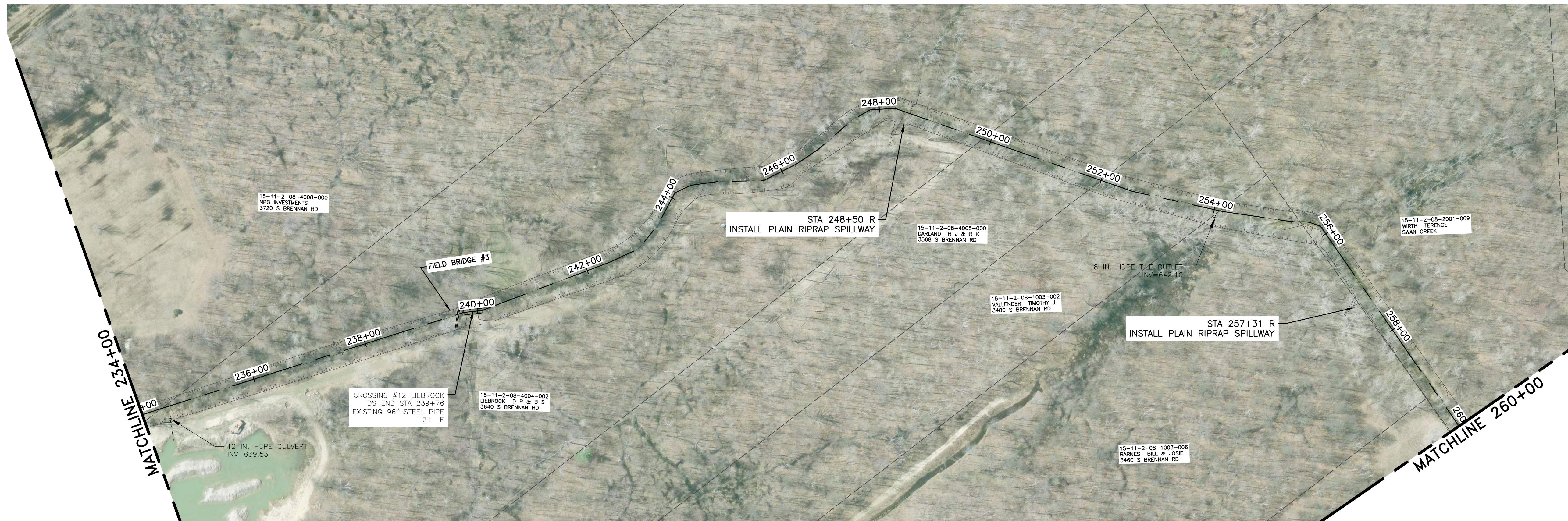
SHEET

14.0

SHORTS CREEK DRAIN IMPROVEMENTS



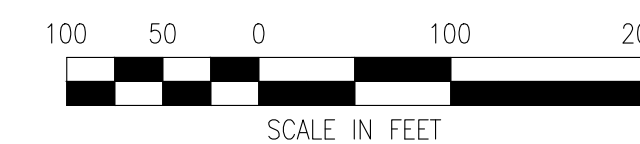
Know what's below.
 Call before you dig.



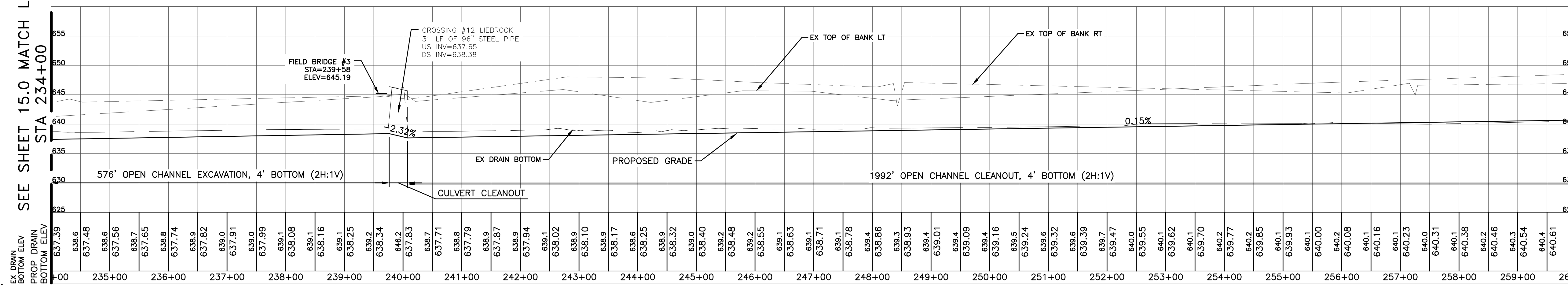
| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 234+00 | 260+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 234+00 | 260+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|------|---|----------|
| (1/T) | 234+00 | 260+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 234+00 | 260+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 234+00 | 260+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 4 EA |



SEE SHEET 15.0 MATCH LINE
 STA 234+00



SEE SHEET 17.0 MATCH LINE
 STA 260+00

| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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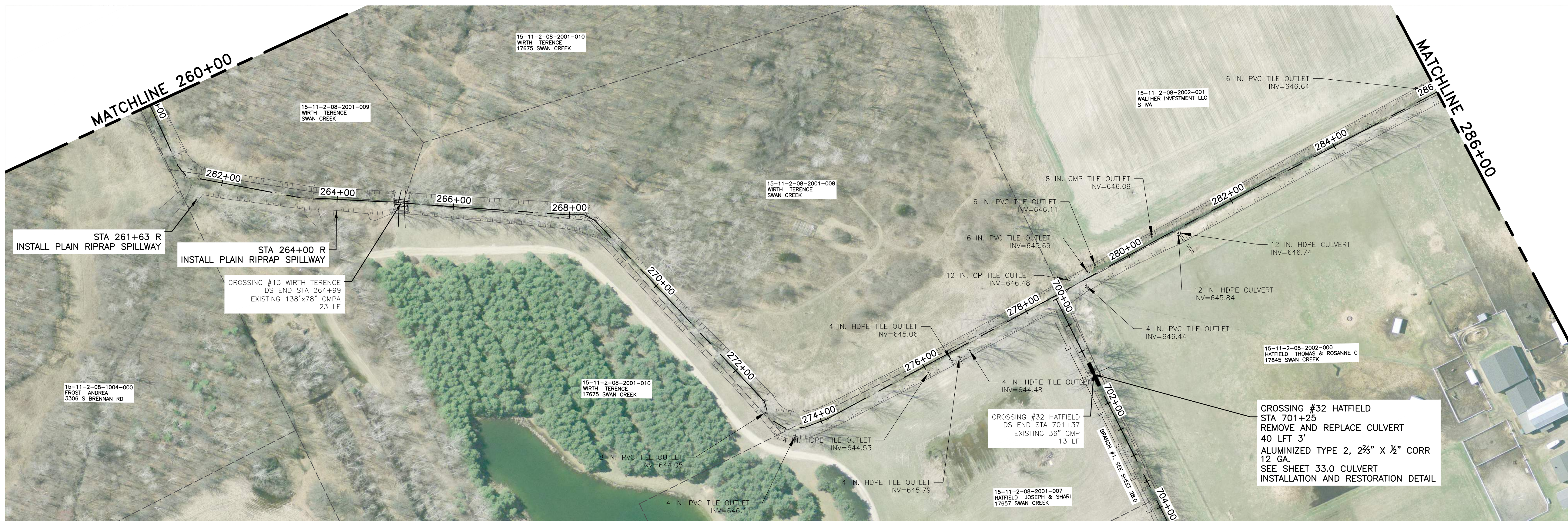
SAGINAW COUNTY
 PUBLIC WORKS COMMISSIONER
 SHORTS CREEK DRAIN
 PLAN AND PROFILE

ISSUED FOR: BIDDING
 DATE: 3/22/21
 BY: TJK

JOB NO. SPW2007.01F

SHEET 16.0

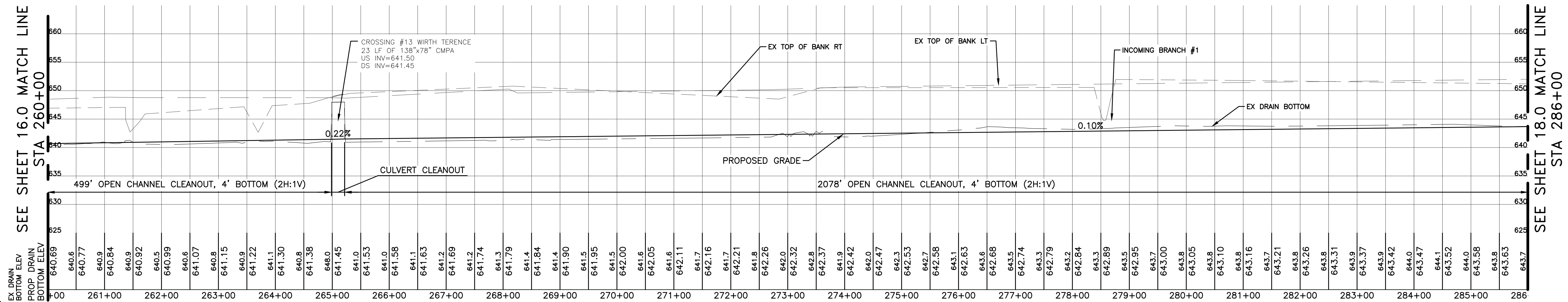
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| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 260+00 | 265+00 | TYPE B | RIGHT |
| 265+00 | 286+00 | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 260+00 | 265+00 | ℄ TO 10' | ℄ TO 40' |
| 265+00 | 286+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|------|---|----------|
| (1/T) | 260+00 | 286+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 260+00 | 286+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 260+00 | 286+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 4 EA |



Know what's below.
Call before you dig.

PROJECT MANAGER: JASON KENYON, FIELD BOOK INFORMATION: CA/PW/WORK/101026189/CSP-PLS-SHORTS CREEK MAIN PLAN PROFILE.DWG - 17.0 - PLOTTED 4/15/2021 3:16 PM BY KRAGENBRINK, TANNER

| REV# | DATE | DESCRIPTION | BY |
|------|----------|-------------|----|
| 1 | 4/9/2021 | | |

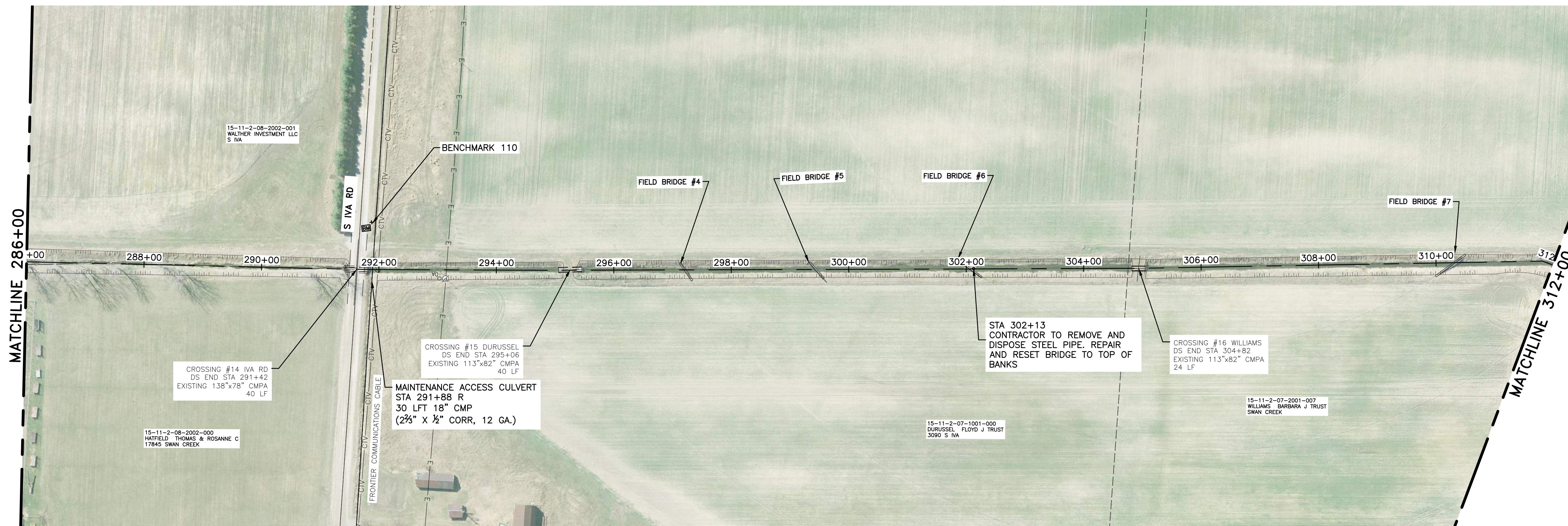
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SAGINAW COUNTY
PUBLIC WORKS COMMISSIONER
SHORTS CREEK DRAIN
PLAN AND PROFILE

| | | |
|---------------------|---------------|---------|
| ISSUED FOR: BIDDING | DATE: 3/22/21 | BY: TJK |
| JOB NO. SPW2007.01F | | |
| SHEET 17.0 | | |

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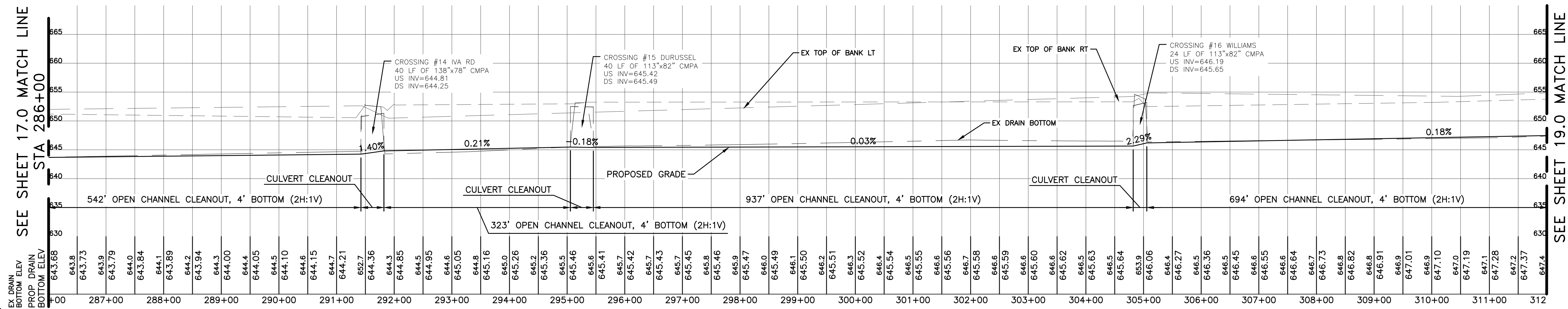
BENCHMARK #110
 N:682813.47
 E:13148451.54
 ELEV:652.13
 IRON ROD WITH CAP



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 286+00 | 312+00 | TYPE C | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 286+00 | 312+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 286+00 | 312+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 286+00 | 312+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 286+00 | 312+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KENYON, FIELD BOOK INFORMATION: CA:\P\WORK\21026189\CSP-PLS-SHORTS CREEK MAIN PLAN PROFILE.DWG - 18.0 - PLOTTED 4/15/2021 3:17 PM BY KRAGENBRINK, TANNER

| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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ISSUED FOR: BIDDING DATE: 3/22/21 BY: TJK

JOB NO. SPW2007.01F

SHEET 18.0

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BENCHMARK #111
 N:683697.07
 E:13147345.49
 ELEV:6156.27
 IRON ROD WITH CAP



SPOIL LEVELING TABLE

| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 312+00 | 322+00 | TYPE A | RIGHT |
| 322+00 | 338+00 | TYPE C | LEFT |

CLEARING AND GRUBBING TABLE

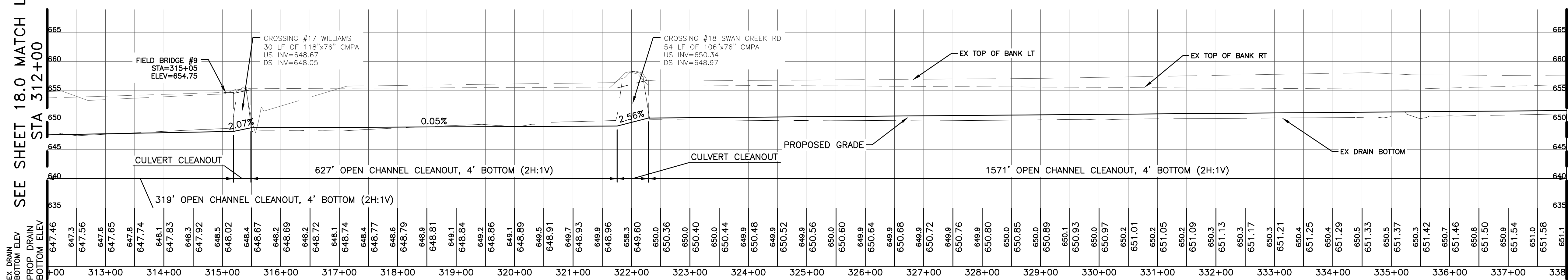
| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 312+00 | 322+00 | ℄ TO 10' | ℄ TO 40' |
| 322+00 | 338+00 | ℄ TO 40' | ℄ TO 10' |

EROSION CONTROL TABLE

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 312+00 | 338+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 312+00 | 338+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 312+00 | 338+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 3 EA |



SEE SHEET 18.0 MATCH LINE
 STA 312+00



SEE SHEET 20.0 MATCH LINE
 STA 338+00



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KEVON; FIELD BOOK INFORMATION: CA:\PW\WORK\210226189\SP-PLS-SHORTS CREEK MAIN PLAN PROFILE.DWG - 19.0 - PLOTTED 4/15/2021 3:18 PM BY KRAGENBRINK, TANNER

| REV# | DATE | REVISION PER ADDENDUM #1 | TJK | BY |
|------|----------|--------------------------|-----|----|
| 1 | 4/9/2021 | | | |

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JOB NO. SPW2007.01F

SHEET

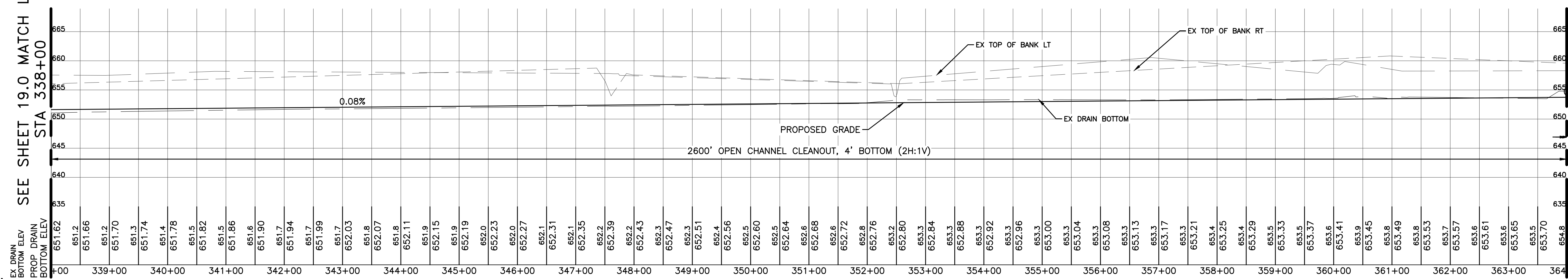
19.0

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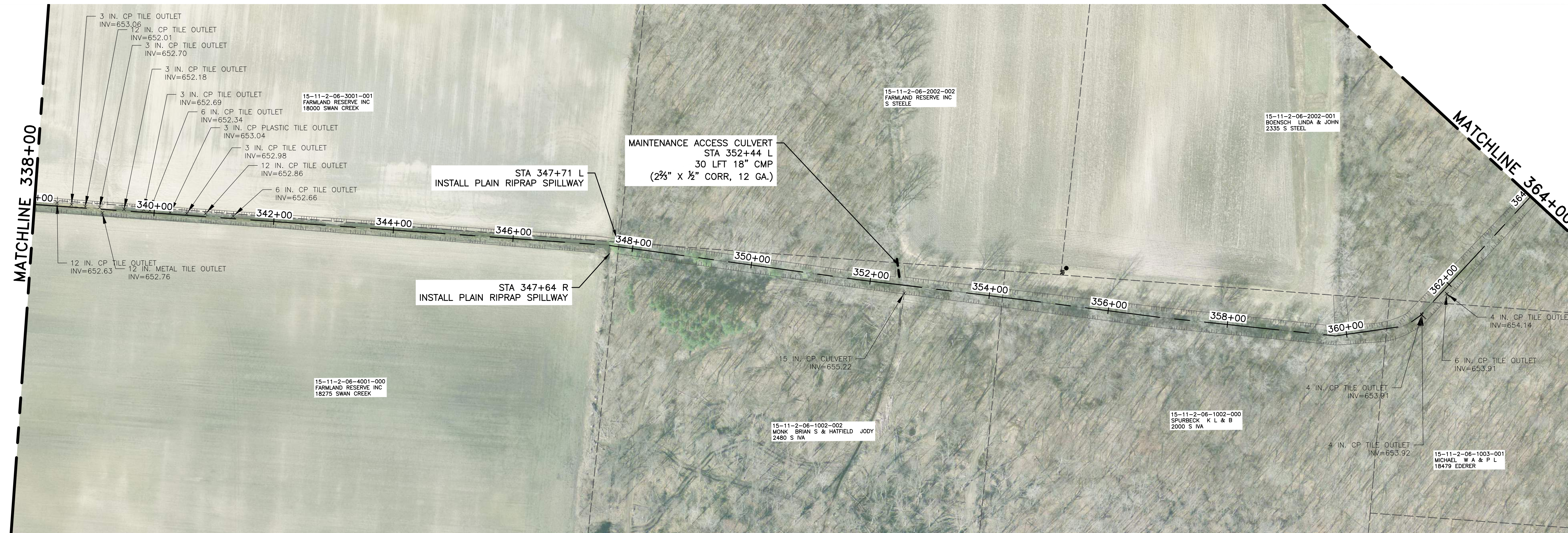


Know what's below.
 Call before you dig.

SEE SHEET 19.0 MATCH LINE
 STA 338+00



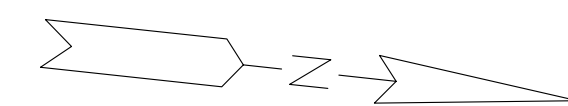
SEE SHEET 21.0 MATCH LINE
 STA 364+00



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 338+00 | 348+00 | TYPE C | LEFT |
| 348+00 | 352+50 | TYPE D | LEFT |
| 352+50 | 361+00 | TYPE C | LEFT |
| 361+00 | 364+00 | TYPE D | LEFT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 338+00 | 348+00 | ℄ TO 40' | ℄ TO 10' |
| 348+00 | 352+50 | ℄ TO 40' | ℄ TO 10' |
| 352+50 | 361+00 | ℄ TO 40' | ℄ TO 10' |
| 361+00 | 364+00 | ℄ TO 40' | ℄ TO 10' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|------|---|----------|
| ① T | 338+00 | 364+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| ② T | 338+00 | 364+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| ⑬ P | 338+00 | 364+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 3 EA |



| REV# | DATE | DESCRIPTION |
|------|----------|---|
| 1 | 4/9/2021 | HYPERLINK "pw" \wip\wint12.wdetrim.com\project\wdrain\bor |

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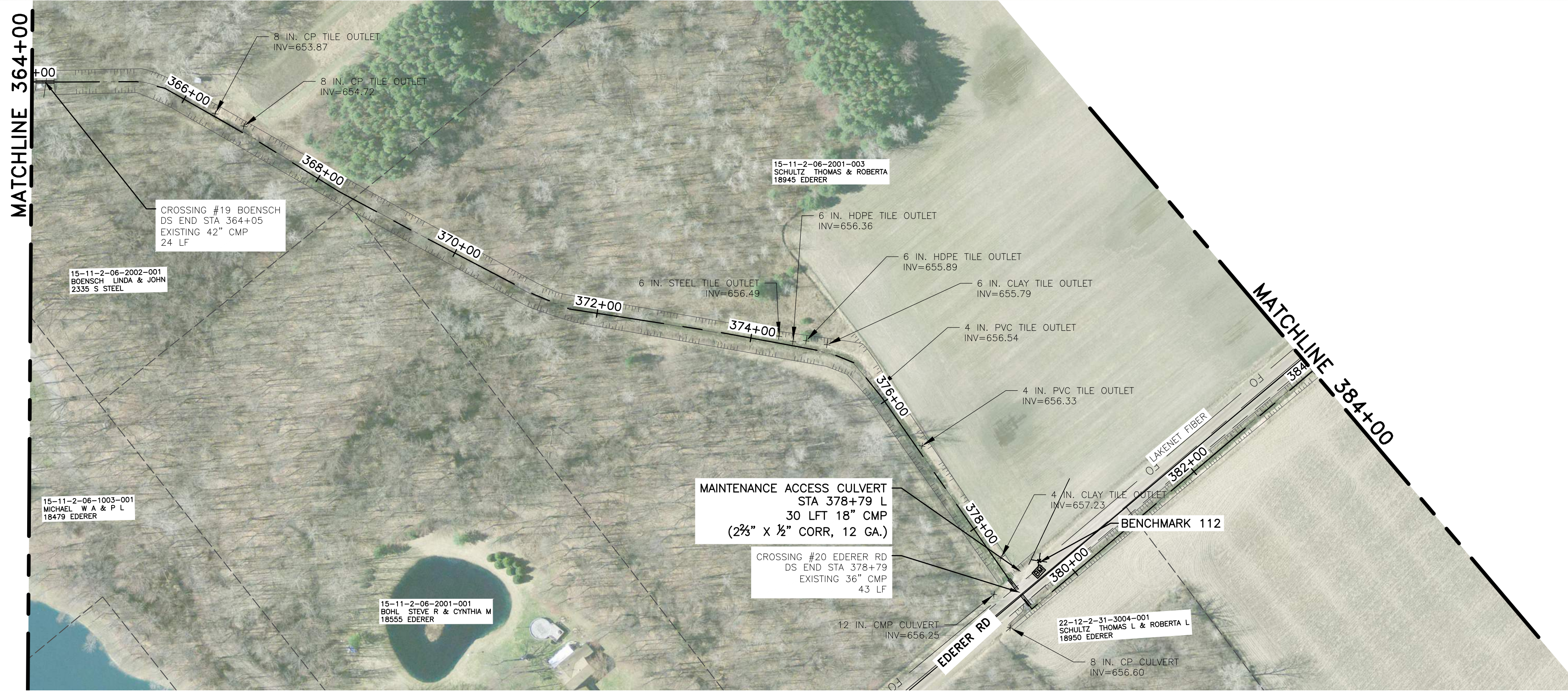
ISSUED FOR: BIDDING DATE: 3/22/21 BY: TJK

JOB NO. SPW2007.01F

SHEET 20.0

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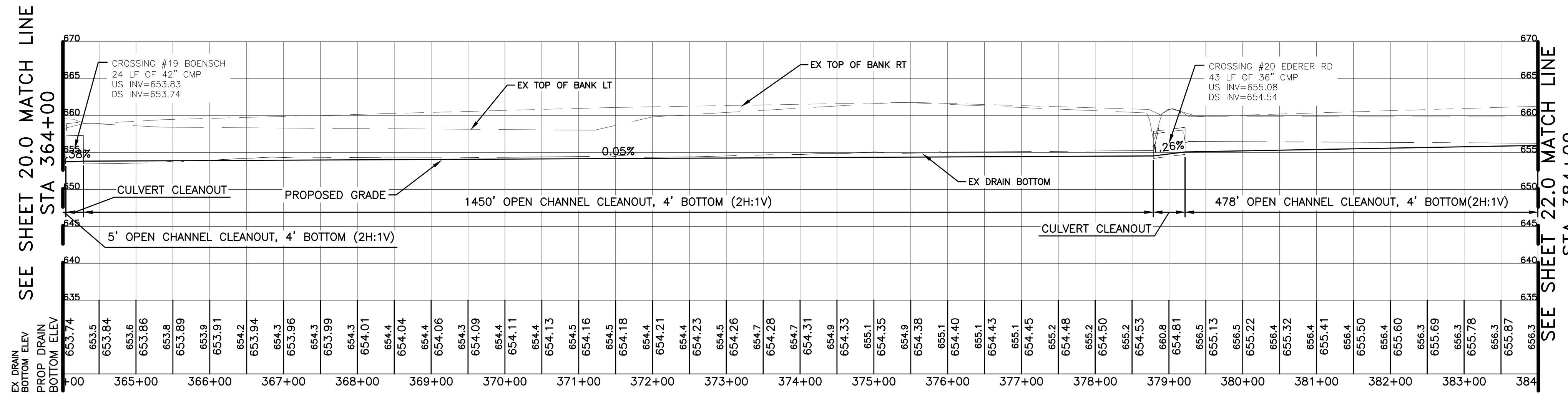
BENCHMARK #112
 N:688978.43
 E:13145854.66
 ELEV:659.41
 RON ROD WITH CAP



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 364+00 | 375+00 | TYPE D | LEFT |
| 375+00 | 379+10 | TYPE C | LEFT |
| 379+10 | 384+00 | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 364+00 | 375+00 | ℄ TO 40' | ℄ TO 10' |
| 379+10 | 384+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|-----------|--------------|------------|------|---|----------|
| (1) T | 364+00 | 384+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2) T | 364+00 | 384+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19) P | 364+00 | 384+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



Know what's below.
 Call before you dig.

PROJECT: MANAGER, JASON KENYON; FIELD BOOK INFORMATION: CA: PW: WORK: 01020189; CSP-PLS-SHORTS CREEK MAIN PLAN PROFILE.DWG: 21.0 - PLOTTED: 4/15/2021, 3:20 PM BY: KRAGENBRINK, TANNER

| REV# | DATE | DESCRIPTION |
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ISSUED FOR: BIDDING DATE: 3/22/21 BY: TJK

JOB NO. SPW2007.01F

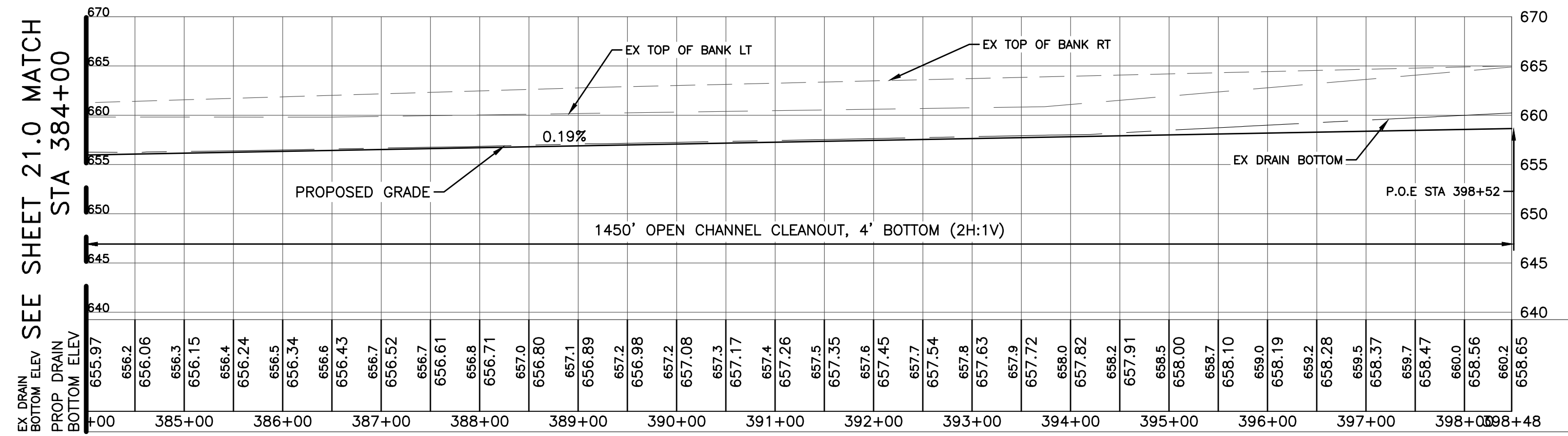
SHEET 21.0

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Know what's below.
Call before you dig.

SEE SHEET 21.0 MATCH LINE
STA 384+00



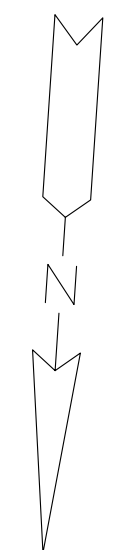
MATCHLINE 384+00



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 384+00 | P.O.E. | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 384+00 | P.O.E. | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 384+00 | P.O.E. | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 384+00 | P.O.E. | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 384+00 | P.O.E. | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 1 EA |



| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

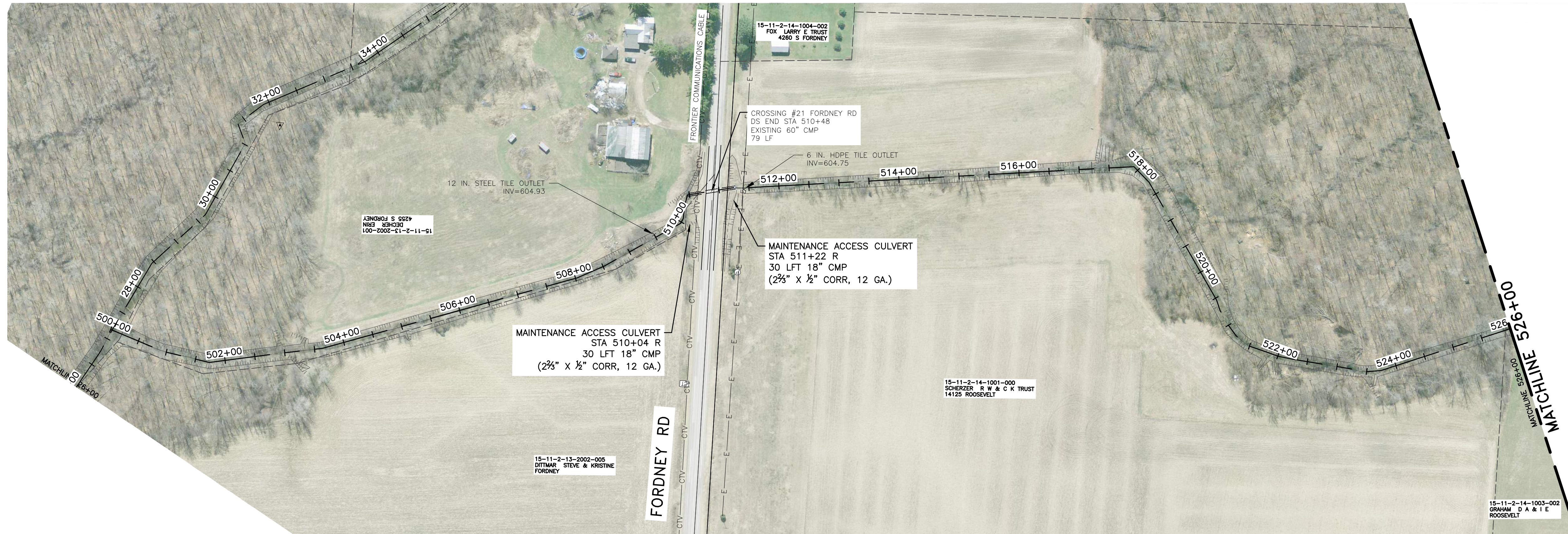
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PLAN AND PROFILE

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|-------------|-------------|-----|
| ISSUED FOR: | DATE: | BY: |
| BIDDING | 3/22/21 | TJK |
| JOB NO. | SPW2007.01F | |
| SHEET | 22.0 | |



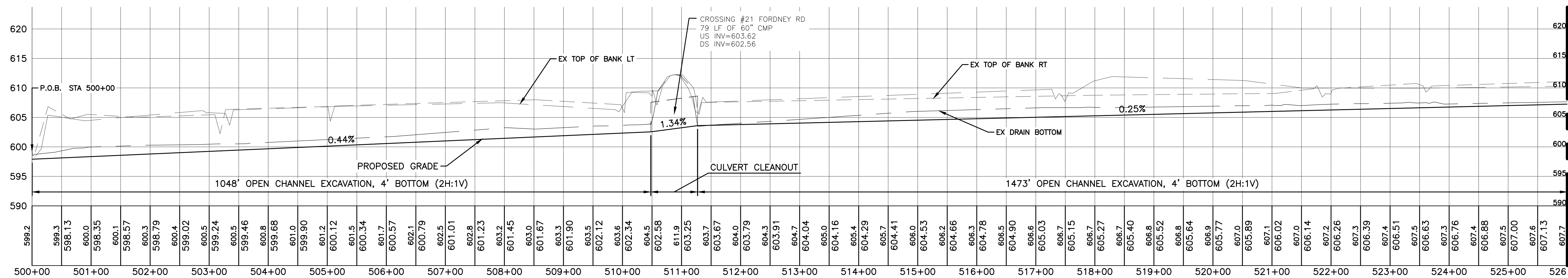
EX DRAIN
 BOTTOM ELEV
 PROP DRAIN
 BOTTOM ELEV



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| P.O.B. | 503+33 | TYPE B | RIGHT |
| 503+33 | 518+00 | TYPE A | RIGHT |
| 518+00 | 526+00 | TYPE B | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| P.O.B. | 503+33 | ℄ TO 10' | ℄ TO 40' |
| 503+33 | 510+85 | ℄ TO 10' | ℄ TO 40' |
| 510+85 | 523+00 | ℄ TO 10' | ℄ TO 40' |
| 523+00 | 526+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | P.O.B. | 526+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | P.O.B. | 526+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | P.O.B. | 526+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 6 EA |



SEE SHEET 24.0 MATCH LINE
 STA 526+00

| REV# | DATE | DESCRIPTION | TJK | BY |
|------|----------|-------------------------|-----|----|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 | | |

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JOB NO. SPW2007.01F

SHEET 23.0

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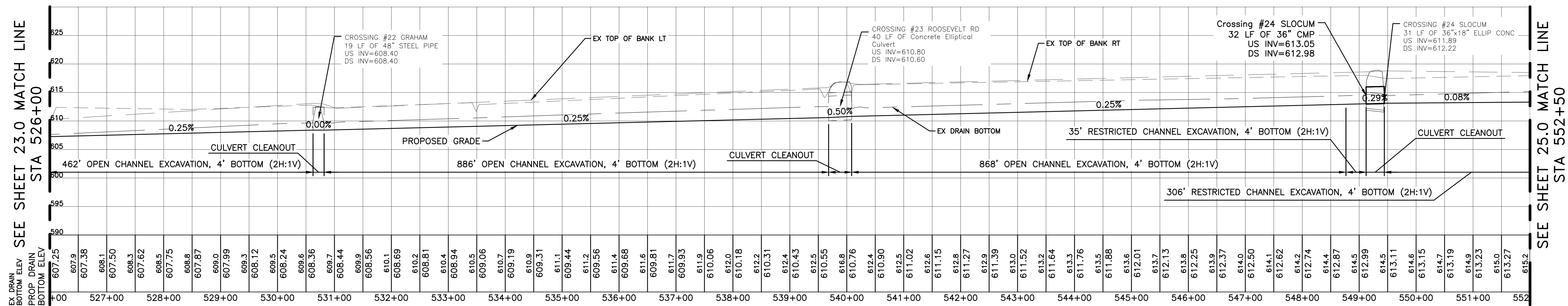
BENCHMARK #104
 N:679069.10
 E:13167252.51
 ELEV:617.35
 IRON ROD WITH CAP



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 526+00 | 578+77 | TYPE A | RIGHT |
| 578+77 | 552+50 | HAUL | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 526+00 | 555+15 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|--------|--------------|------------|------|---|----------|
| (1/T) | 526+00 | 552+50 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| (2/T) | 526+00 | 552+50 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| (19/P) | 526+00 | 552+50 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 1 EA |



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KEVON, CALWORKS (01026189) CSP-PLS-TURNER BRANCH PLAN PROFILE.DWG - 24.0 - PLOTTED 4/15/2021 3:23 PM BY KRAGENBRINK, TANNER

| REV# | DATE | REVISION | DESCRIPTION |
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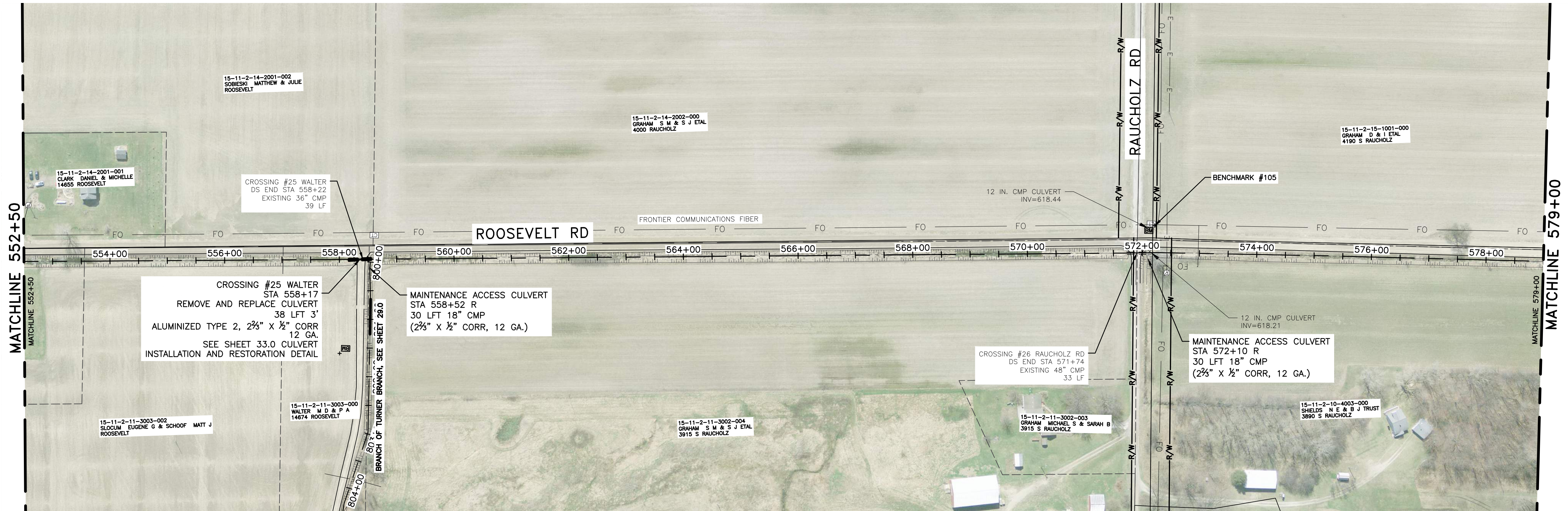
ISSUED FOR: DATE: BY:
 BIDDING 3/22/21 TJK

JOB NO.
 SPW2007.01F

SHEET
 24.0

SHORTS CREEK DRAIN IMPROVEMENTS

BENCHMARK #105
 N:678994.89
 E:13164903.02
 ELEV:620.02
 IRON ROD WITH CAP



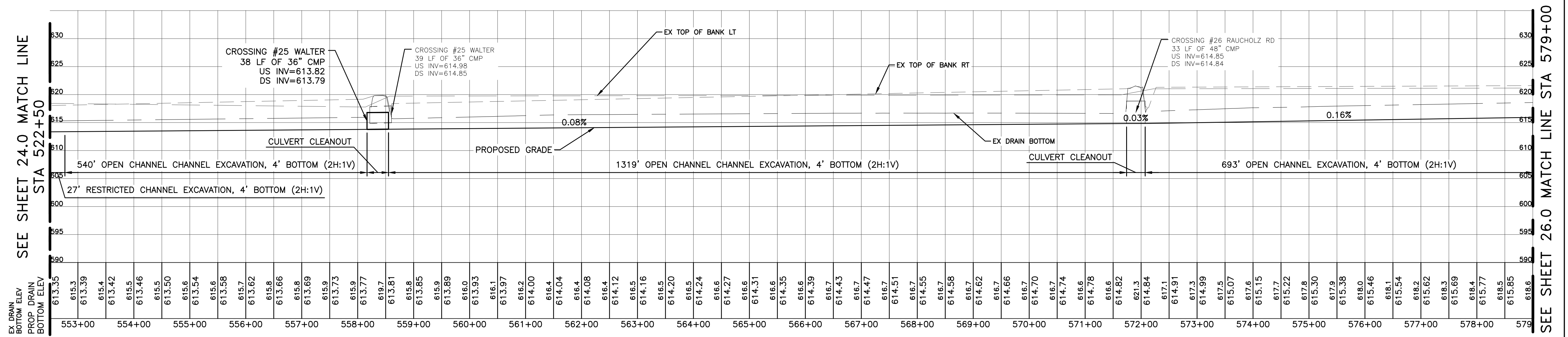
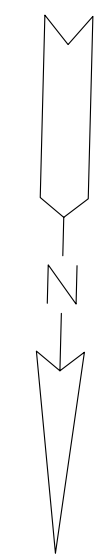
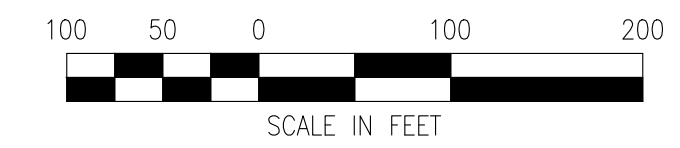
MATCHLINE 552+50

MATCHLINE 579+00

| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 552+50 | 552+83 | HAUL | RIGHT |
| 552+83 | 579+00 | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 552+50 | 579+00 | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 552+50 | 579+00 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 552+50 | 579+00 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 552+50 | 579+00 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



SEE SHEET 24.0 MATCH LINE STA 522+50

SEE SHEET 26.0 MATCH LINE STA 579+00



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KENYON
 CA/PW WORKSPACE: D:\026189\GSP-PLS-TURNER BRANCH PLAN PROFILE.DWG - 25.0 - PLOTTED 4/15/2021 3:23 PM BY KRAGENBRINK, TANNER

| REV# | DATE | REVISION PER ADDENDUM #1 | TJK | BY |
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JOB NO. SPW2007.01F

SHEET 25.0

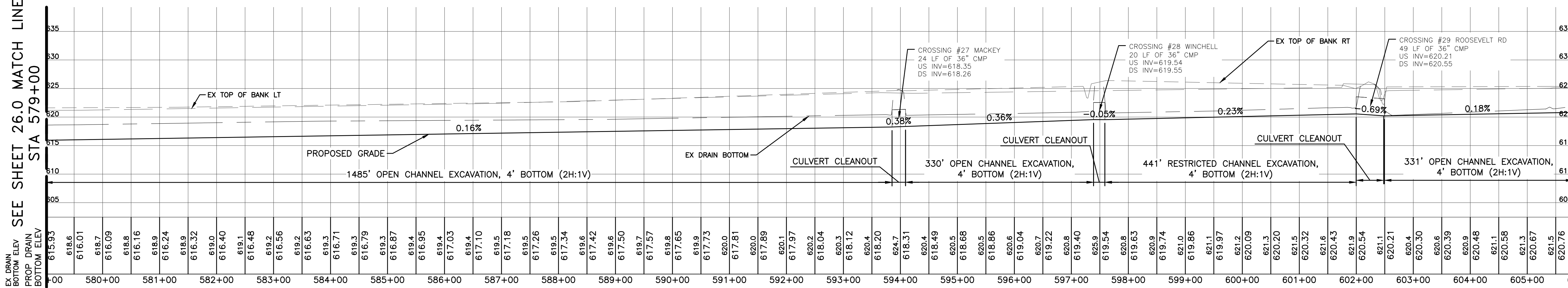
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PROJECT MANAGER: JASON KENYON
 CA: PW: WORKS\JDK\2020\SP-PLTS-TURNER BRANCH PLAN PROFILE.DWG - 26.0 - PLOTTED 4/15/2021 3:24 PM BY: KRAGENBRINK, TANNER
 FIELD BOOK INFORMATION: -



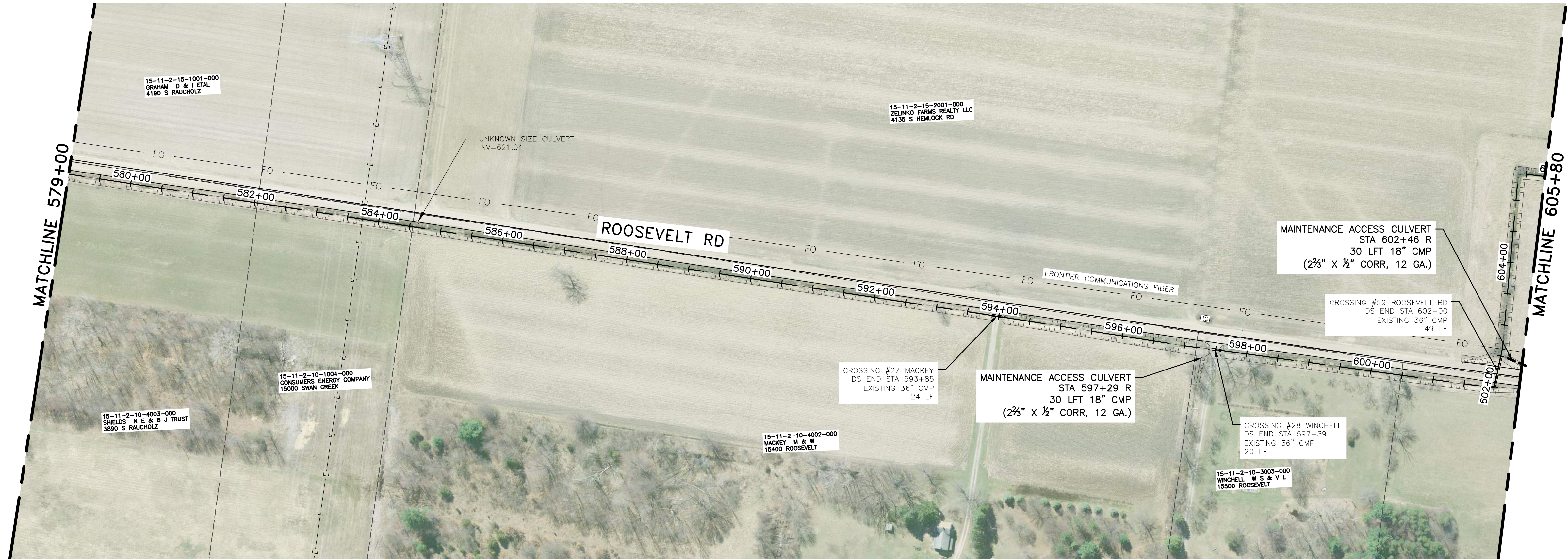
Know what's below.
 Call before you dig.

EX DRAIN
 BOTTOM ELEV
 PROP DRAIN
 BOTTOM ELEV
 STA 579+00



SEE SHEET 26.0 MATCH LINE STA 579+00

SEE SHEET 27.0 MATCH LINE STA 605+80



SPOIL LEVELING TABLE

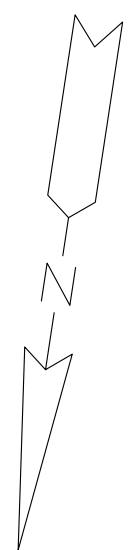
| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 579+00 | 597+39 | TYPE A | RIGHT |
| 597+39 | 600+50 | HAUL | RIGHT |
| 600+50 | 605+50 | TYPE A | RIGHT |

CLEARING AND GRUBBING TABLE

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 579+00 | 605+80 | ℄ TO 10' | ℄ TO 40' |

EROSION CONTROL TABLE

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 579+00 | 605+80 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 579+00 | 605+80 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 579+00 | 605+80 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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PLAN AND PROFILE

ISSUED FOR: BIDDING
 DATE: 3/22/21
 BY: TJK

JOB NO. SPW2007.01F

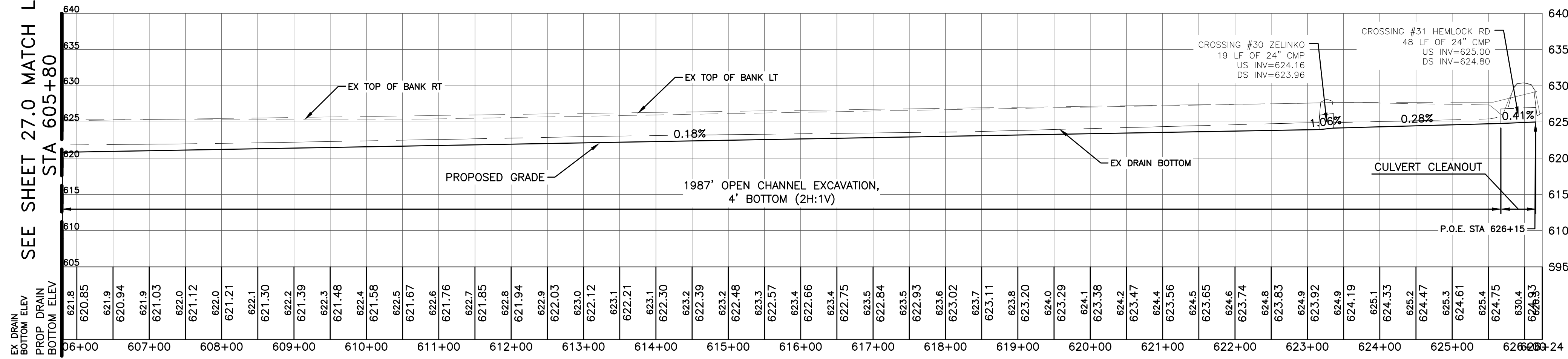
SHEET 26.0

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Know what's below.
 Call before you dig.

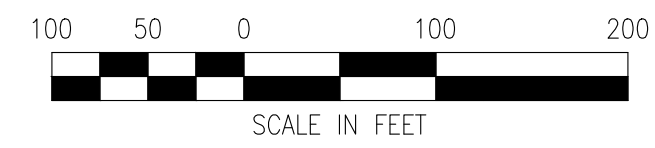
SEE SHEET 27.0 MATCH LINE
 STA 605+80



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 605+80 | P.O.E. | TYPE A | RIGHT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 608+50 | P.O.E. | ℄ TO 10' | ℄ TO 40' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 605+50 | P.O.E. | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 605+50 | P.O.E. | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 605+50 | P.O.E. | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



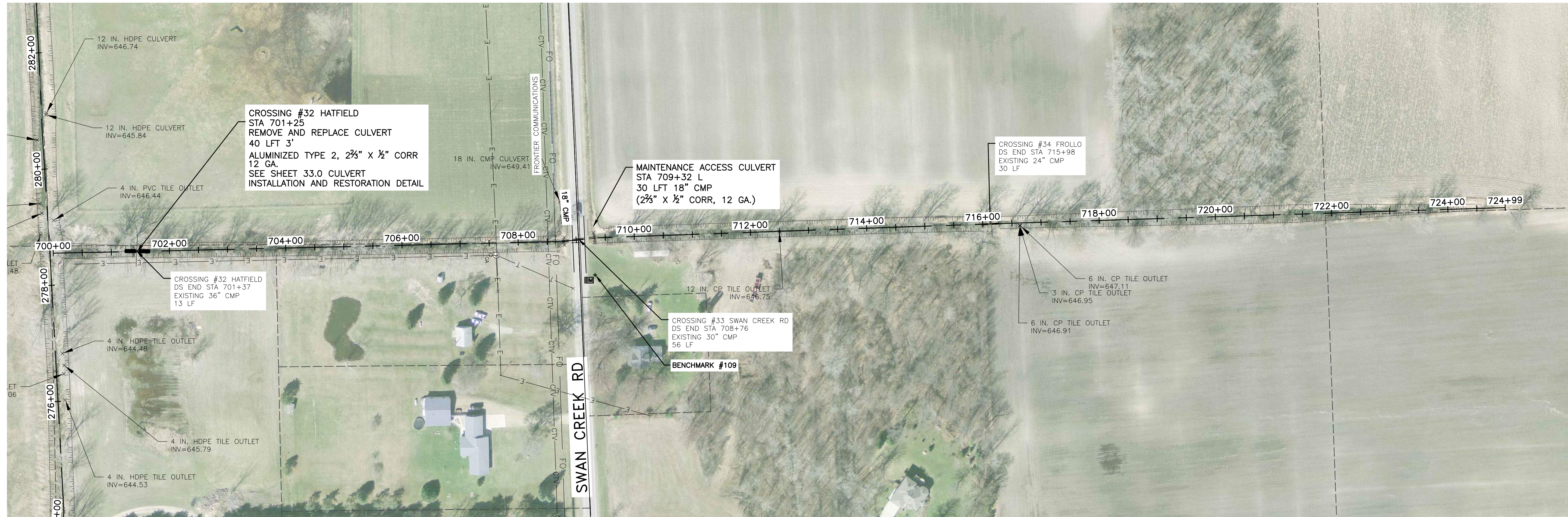
| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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|-------------|-------------|-----|
| ISSUED FOR: | DATE: | BY: |
| BIDDING | 3/22/21 | TJK |
| JOB NO. | SPW2007.01F | |
| SHEET | 27.0 | |

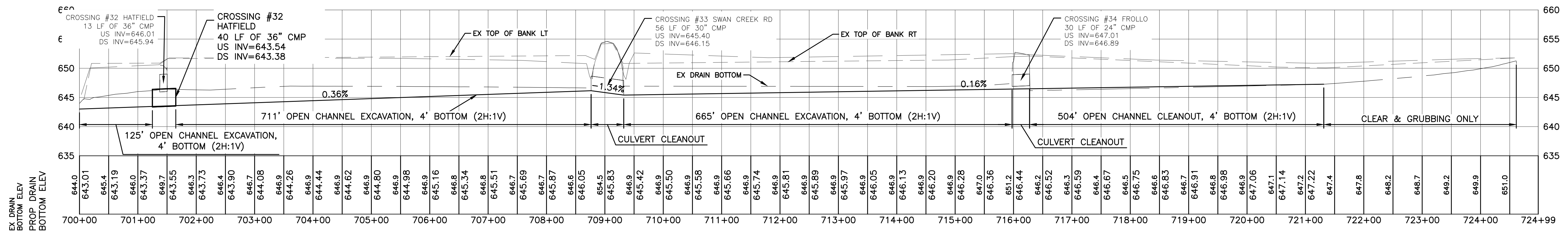
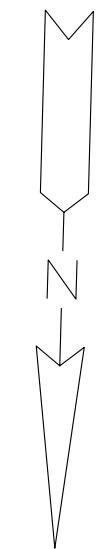
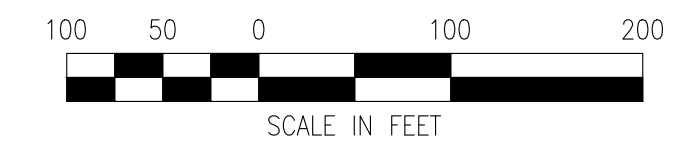
BENCHMARK #109
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 E:13150814.14
 ELEV:651.98
 IRON ROD WITH CAP



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 700+00 | 708+76 | TYPE A | RIGHT |
| 708+76 | 724+58 | TYPE C | LEFT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 700+00 | 708+76 | ℄ TO 10' | ℄ TO 40' |
| 708+76 | 724+58 | ℄ TO 40' | ℄ TO 10' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|---------|--------------|------------|------|---|----------|
| 1 T | 700+00 | 724+99 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2 T | 700+00 | 724+99 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |
| 19 P | 700+00 | 724+99 | BOTH | RIPRAP SPILLWAY WHERE BANK EROSION EXISTS | 2 EA |



Know what's below.
 Call before you dig.

PROJECT MANAGER: JASON KEVON, CA P.W. WORKS (P) 020189, CSP-PLS-TURNER BRANCH PLAN PROFILE.DWG - 25.0 - PLOTTED 4/15/2021 3:26 PM BY KRAGENBRINK, TANNER

| REV# | DATE | REVISION PER ADDENDUM #1 | TJK | BY |
|------|----------|--------------------------|-----|----|
| 1 | 4/9/2021 | | | |

555 S. Saginaw Street, Suite 201
 Flint, MI 48902
 www.wadetrims.com

SAGINAW COUNTY
 PUBLIC WORKS COMMISSIONER
 SHORTS CREEK DRAIN
 PLAN AND PROFILE

ISSUED FOR: BIDDING DATE: 3/22/21 BY: TJK

JOB NO. SPW2007.01F

SHEET

28.0

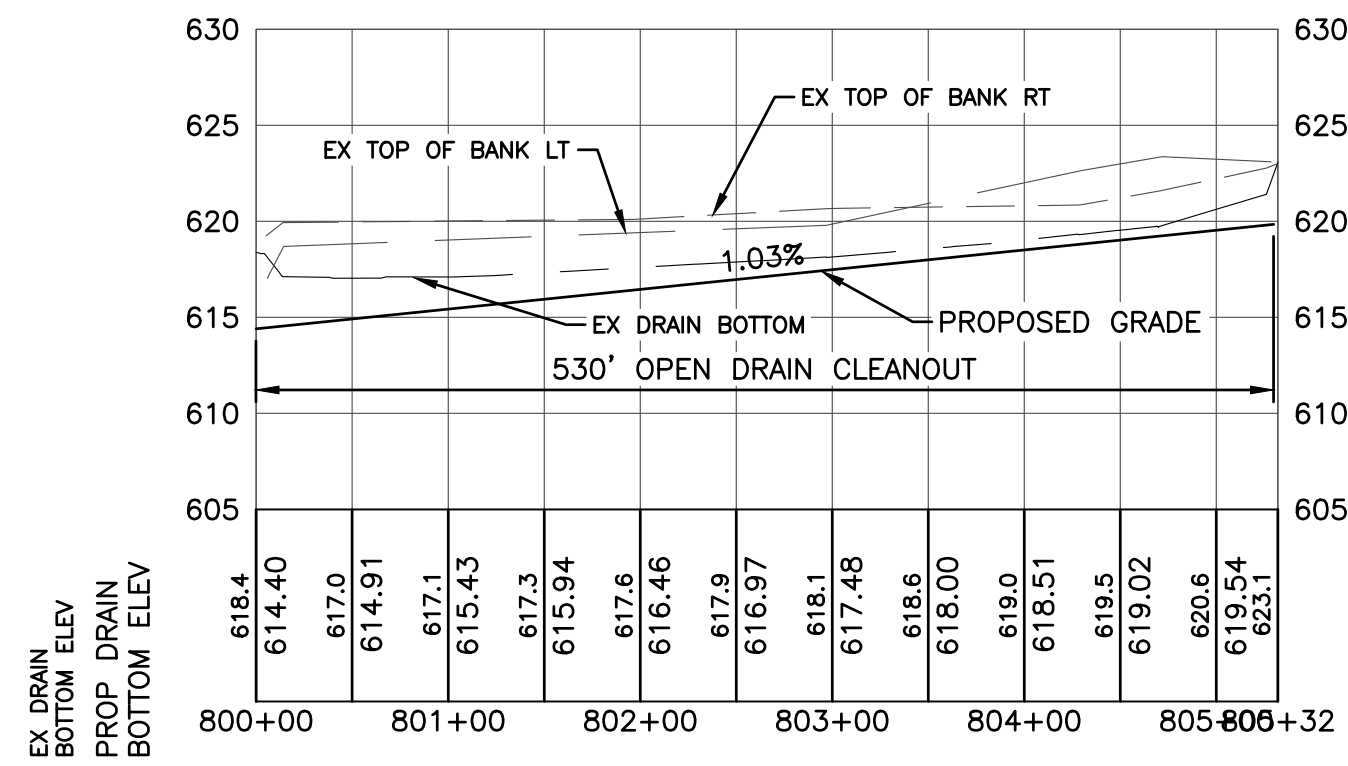
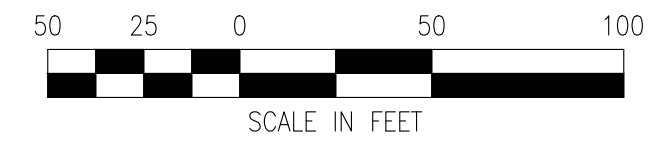
SHORTS CREEK DRAIN IMPROVEMENTS



| FROM STATION | TO STATION | DETAIL | SIDE TO EXCAVATE FROM |
|--------------|------------|--------|-----------------------|
| 800+00 | 806+32 | TYPE C | LEFT |

| FROM STATION | TO STATION | CLEAR AND GRUB LEFT | CLEAR AND GRUB RIGHT |
|--------------|------------|---------------------|----------------------|
| 800+00 | 806+32 | ℄ TO 40' | ℄ TO 10' |

| KEY | FROM STATION | TO STATION | SIDE | DESCRIPTION | QUANTITY |
|-----|--------------|------------|------|---------------------------------------|----------|
| 1/T | 800+00 | 806+32 | BOTH | SEEDING OF ALL DISTURBED AREAS | LUMP SUM |
| 2/T | 800+00 | 806+32 | BOTH | MULCHING OF ONLY DISTURBED LAWN AREAS | LUMP SUM |



Know what's below.
 Call before you dig.

| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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 SHORTS CREEK DRAIN

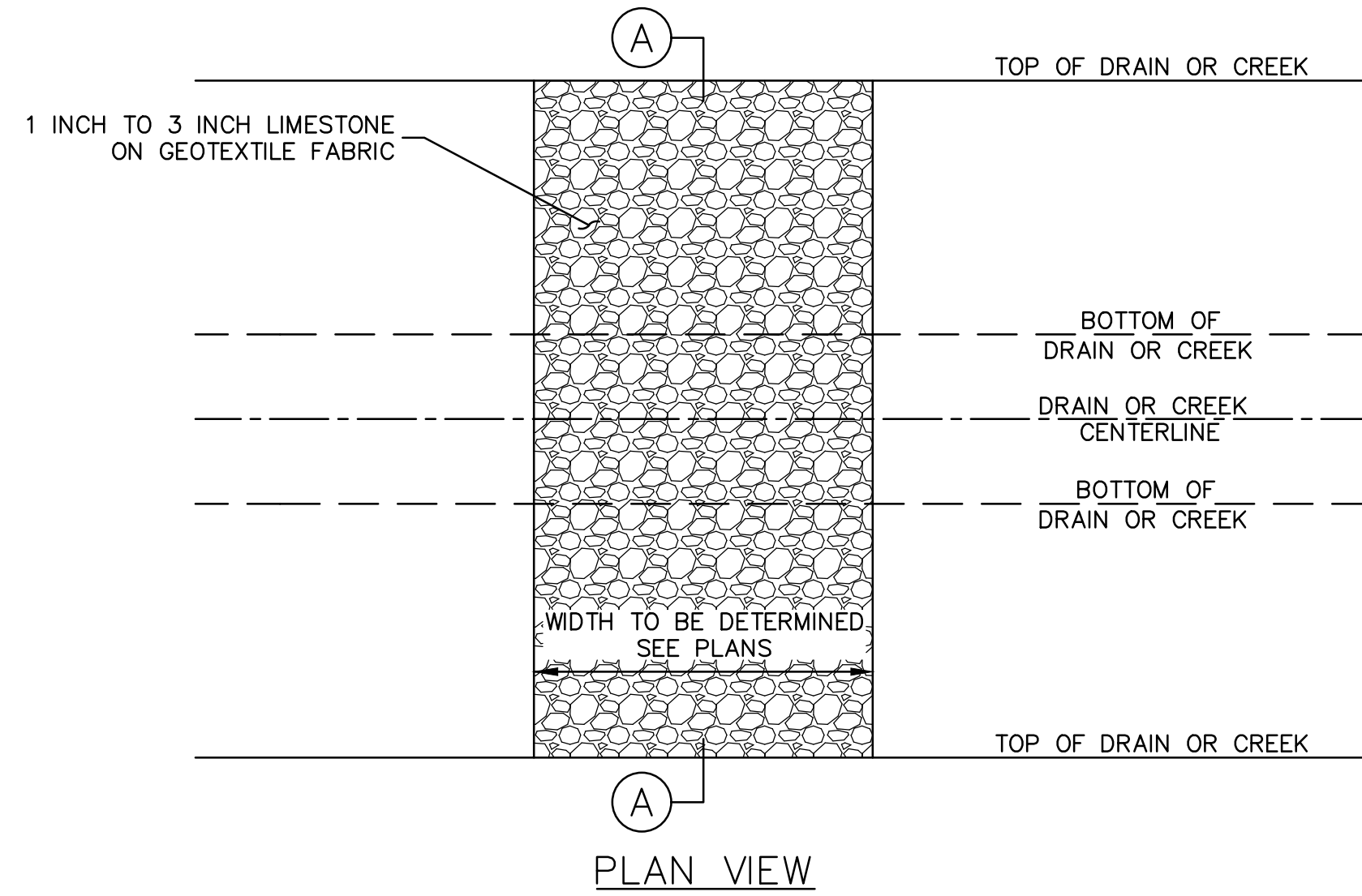
PLAN AND PROFILE

ISSUED FOR: BIDDING
 DATE: 3/22/21
 BY: TJK

JOB NO.
 SPW2007.01F

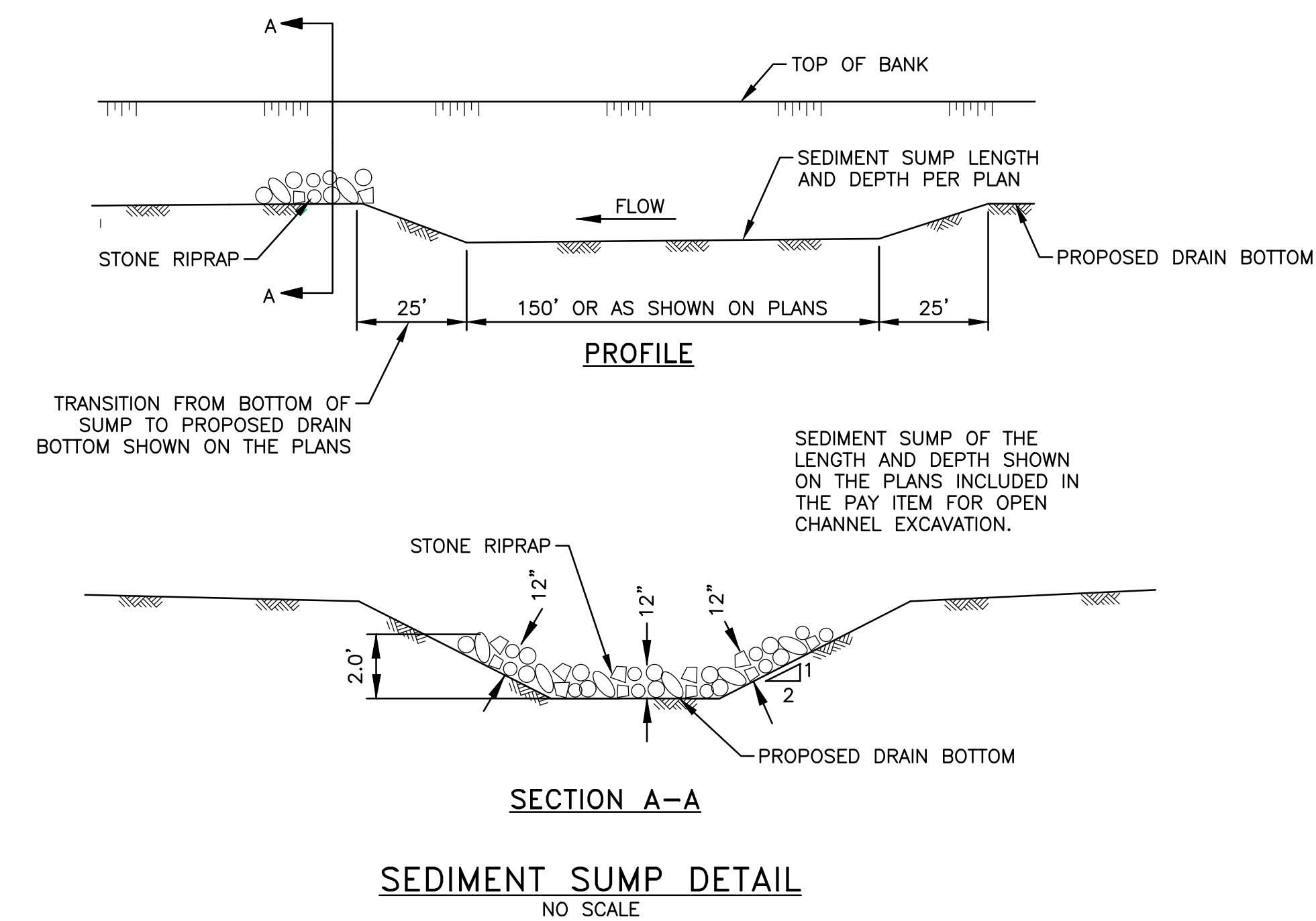
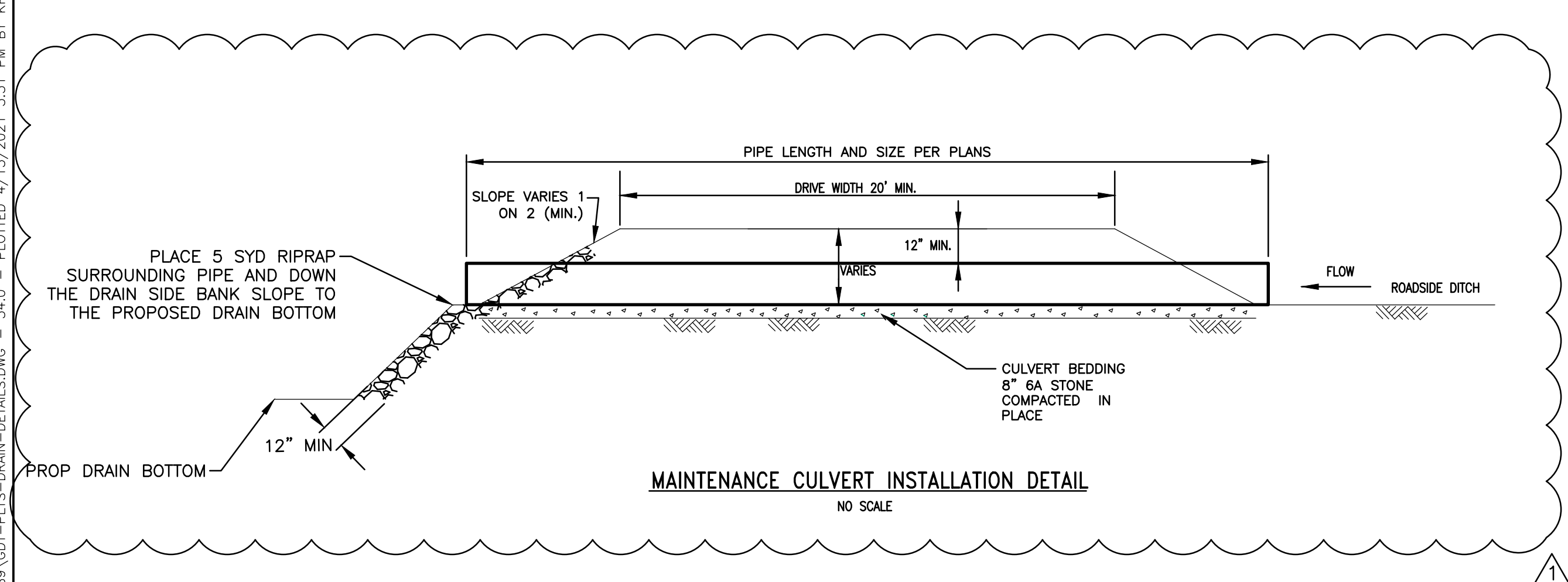
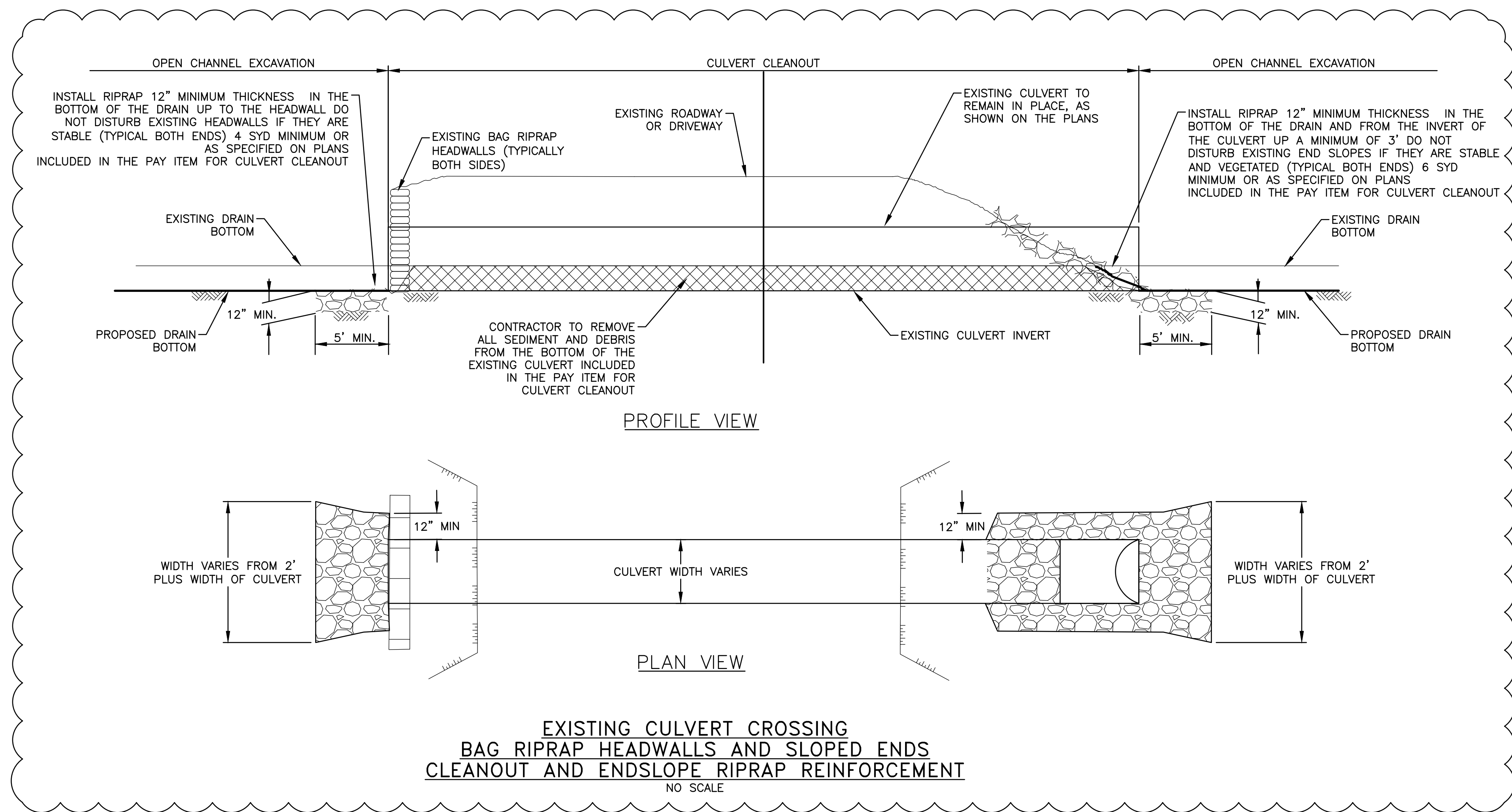
SHEET
 29.0

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- NOTES:**
1. FORDING, DRIVING OR MOVING CONSTRUCTION EQUIPMENT OR VEHICLES THROUGH THE BED OF A DRAIN OR CREEK IS NOT PERMITTED AT ANY TIME.
 2. IF TEMPORARY CROSSINGS SHALL BE REMOVED WITHIN TWO WEEKS OF THE WORK REACHING THE NEXT CROSS ROAD.
 3. THE BOTTOM OR INVERT ELEVATION OF THE DRAIN/CREEK SHALL BE MAINTAINED AFTER STONE PLACEMENT.
 4. ALL STONE USED FOR ANY TEMPORARY CROSSING SHALL BE REMOVED FROM THE DRAIN/CREEK.
 5. SEED AND HIGH VELOCITY MULCH BLANKETS SHALL BE USED TO RESTORE DRAIN/CREEK BANKS. 3 TO 6 INCH SIZE STONE SHALL BE USED TO RESTORE THE BOTTOM OF THE DRAIN/CREEK.
 6. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR DAMAGE DUE TO WET WEATHER FLOWS.

STONE FORD CROSSING DETAILS
NO SCALE



PROJECT MANAGER: JASON KENYON
 CA: PW: WORK210126189 GDT-PLTS-DRAIN-DETAILS.DWG - 34.0 - PLOTTED 4/15/2021 3:31 PM BY: KRAGENBRINK, TANNER
 FIELD BOOK INFORMATION:

| REV# | DATE | DESCRIPTION |
|------|----------|-------------------------|
| 1 | 4/9/2021 | REVISED PER ADDENDUM #1 |

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 DETAILS

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 BY: TJK

JOB NO.
SPW2007.01F

SHEET
34.0

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