**EXISTING STRUCTURE**

72" +/- DIAMETER STEEL PIPE CULVERT.

**PROPOSED STRUCTURE NO: 032-5510**

THE PROPOSED STRUCTURE IS A CAST IN PLACE CONCRETE DOUBLE 10'X7' BOX CULVERT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

# PLANS FOR PROPOSED TOWNSHIP BRIDGE PROGRAM PROJECT

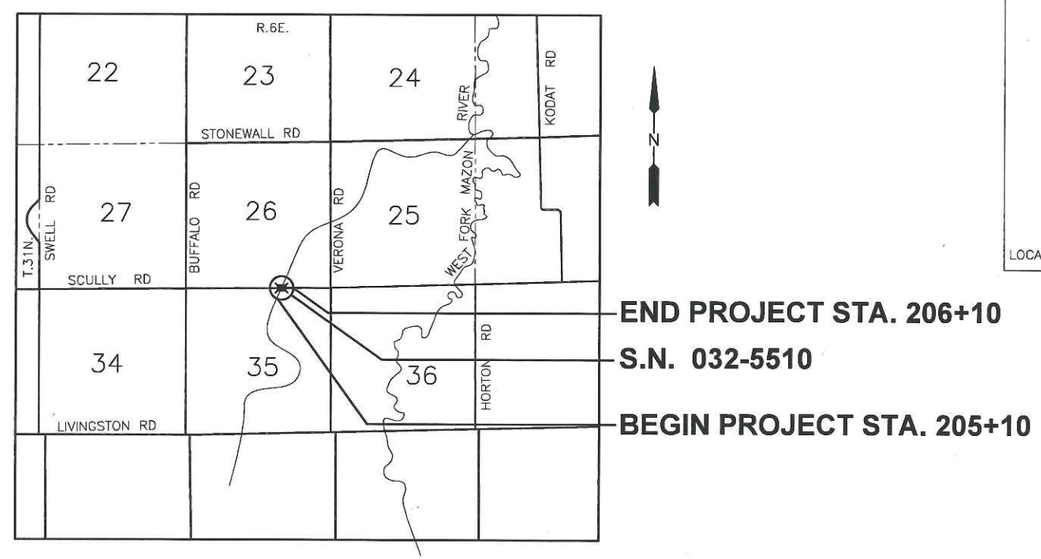
## (SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER)

## SECTION 13-09131-00-BR
## GRUNDY COUNTY
## HIGHLAND TOWNSHIP

LOCATION OF SECTION INDICATED THUS:

INDEX OF SHEETS


| | |
|---|---|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES, TYPICAL SECTIONS, AND TRAFFIC CONTROL |
| 3 | SUMMARY OF QUANTITIES |
| 4 | PLAN AND PROFILE |
| 5 | GENERAL PLAN AND ELEVATION |
| 6 | STRUCTURE DETAILS |
| 7–8 | CROSS SECTIONS |


JULIE 1–800–892–0123

HIGHWAY STANDARDS

| | |
|---|---|
| 000001–06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 515001–03 | NAME PLATE FOR BRIDGES |
| 542401–02 | METAL END SECTION FOR PIPE CULVERTS |
| 630101–09 | GUARDRAIL MOUNTED ON EXISTING CULVERTS |
| 701901–05 | TRAFFIC CONTROL DEVICES |
| BLR 21–9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| BLR 22–7 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO–LANE TWO WAY RURAL TRAFFIC)(ROAD CLOSED TO THRU TRAFFIC) |

**LOCATION SKETCH**

NOT TO SCALE

STRUCTURAL DESIGN DATA

FUNCTION CLASSIFICATION: LOCAL ROAD/STREET
ADT <150

DESIGN SPEED 30 MPH

GROSS LENGTH= 100 FT (0.019 MI) NET LENGTH= 100 FT (0.019 MI)

4/15/16 date — ADAM J. OSSOLA, LICENSED PROFESSIONAL ENGINEER NO. 062-065663, STATE OF ILLINOIS, expires 11-30-2017 — signature

4/15/16 date — JAMES K. CUNARD, LICENSED STRUCTURAL ENGINEER NO. 081-004655, STATE OF ILLINOIS, expires 11-30-2016 — signature

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001717

APPROVED 5-12 2016
Mark Hauber
TOWNSHIP COMMISSIONER

APPROVED 5/13 2016
COUNTY ENGINEER

PASSED _____ 20__
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED _____ 20__
DISTRICT ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|---|---|---|---|---|
| DRAWN BY: NOE | CAD: 001–COVER | REVISIONS (DATE / BY) | SCALE: AS NOTED | SHEET 1 |
| CHECKED BY: AJO | DATE: 03/29/16 | | FILE NO.: 111039.00Y–1 | OF 8 |

GENERAL NOTES

1. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SAND BAGS PER BARRICADE.

2. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED.

3. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEY OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

5. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

   GRANULAR MATERIALS 2.05 TONS / CU YD

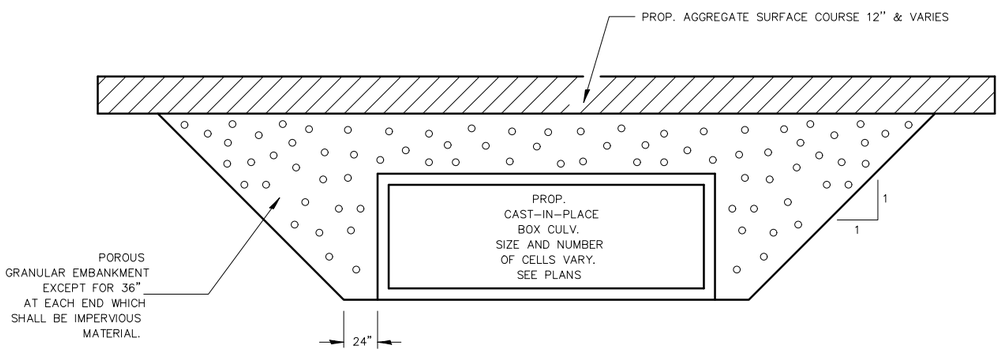
6. THE FINISHED EARTHWORK SHALL HAVE A VEGETATIVE SUSTAINING SOIL COVERING THE TOP 4 INCHES IN AREA TO BE SEEDED. THE VEGETATIVE SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

7. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

   COMED
   AT&T

   THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

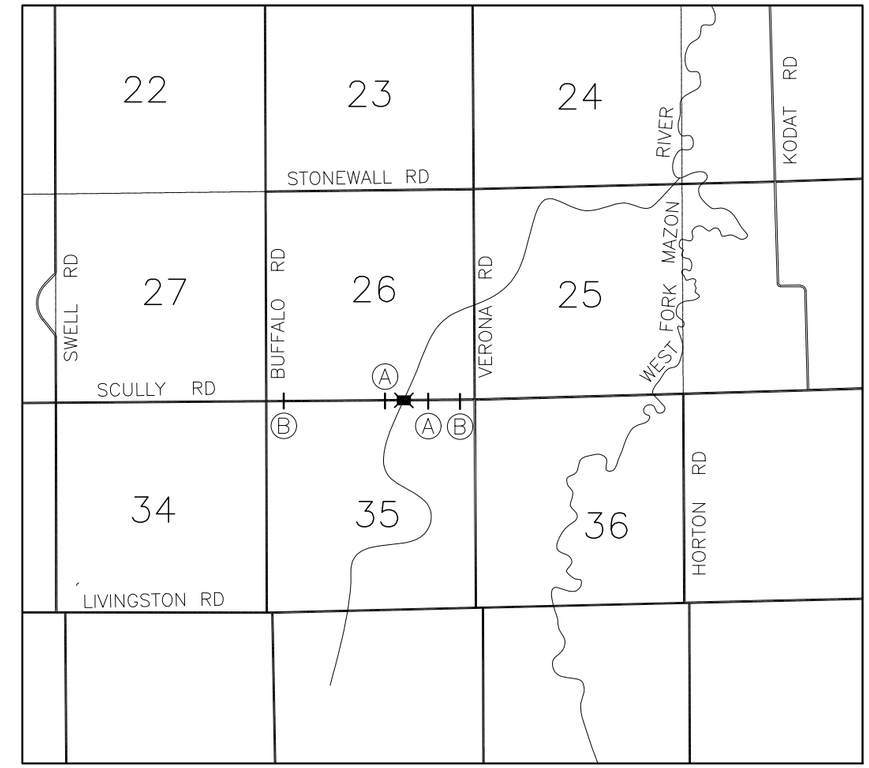
8. EXCAVATION REQUIRED FOR CONSTRUCTION OF CONCRETE BOX CULVERTS AND ASSOCIATED WINGWALLS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICES FOR CONCRETE BOX CULVERTS AND PIPE CULVERT REMOVAL.




## SECTION THROUGH CAST-IN-PLACE BOX CULVERT

N.T.S.

POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN 6" LIFTS PER ARTICLE 207.03 OF THE STANDARD SPECIFICATIONS.

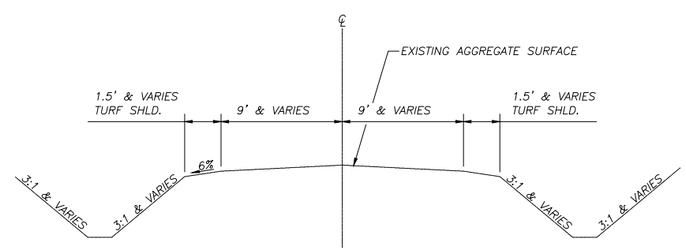



## TRAFFIC CONTROL PLAN

Ⓐ ERECT TYPE III BARRICADES AT STA. 204+10 AND 207+10 AND "ROAD CLOSED 500 FT" AND "ROAD CLOSED AHEAD" SIGNS IN ACCORDANCE WITH HIGHWAY STD. BLR-21.*

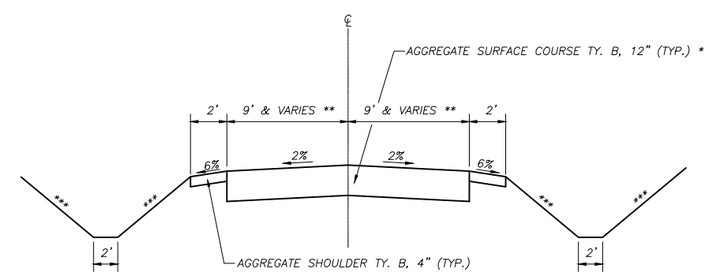
Ⓑ ERECT TYPE III BARRICADES AT THE INTERSECTIONS INDICATED IN ACCORDANCE WITH HIGHWAY STD. BLR-22. ADVANCED WARNING SIGNS SHALL ALSO BE PLACED IN ACCORDANCE WITH HIGHWAY STD. BLR-22.*

* THIS WORK WILL NOT BE PAID FOR SEPARATELY. THE COST SHALL BE CONSIDERED INCLUDED IN OTHER WORK.




## EXISTING TYPICAL SECTION

NOT TO SCALE




* EXISTING AGGREGATE OUTSIDE EXCAVATION LIMITS TO REMAIN. SCARIFY, REGRADE, AND/OR ADD MATERIAL AS NEEDED TO MATCH PROPOSED PROFILE AND TRANSITION TO CROSS SLOPES SHOWN.

** 9' FROM STA 205+35 TO STA 205+85
VARIES 9.1' TO 9.0' STA 205+10 LT TO 205+35 LT
VARIES 9.6' TO 9.0' STA 205+10 RT TO 205+35 RT
VARIES 9.0' TO 8.0' STA 205+85 LT TO 206+10 LT
VARIES 9.0' TO 10.2' STA 205+85 RT TO 206+10 RT

*** 3:1 & VARIES – SEE CROSS SECTIONS

## PROPOSED TYPICAL SECTION

NOT TO SCALE
STA. 205+10 TO STA. 206+10

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Drawing Name: G:\Users\111039-00-SCULLY-ROAD-CULVERT\CAD\C3D\002-General Notes.dwg Last Modified: Mar 29, 2016 – 11:53am Plotted on: Mar 29, 2016 – 1:24pm by nancjv

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| DRAWN BY: NOE | REVISIONS | | | | |
| CHECKED BY: AJO | LEVEL | BY | DATE | DESCRIPTION | |
| DATE: 03/16 | | | | | |

CHAMLIN & ASSOCIATES, INC.

PERU MORRIS ILLINOIS

SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR
HIGHLAND TOWNSHIP
GRUNDY COUNTY

GENERAL NOTES, TYPICAL SECTION, AND TRAFFIC CONTROL

CURRENT AS OF: 03/29/2016
SCALE: NONE
SHEET 2 OF 8
FILE NO.: 111039.00 Y–

# SUMMARY OF QUANTITIES

| | ITEM DESCRIPTION | UNIT | QTY. |
|---|---|---|---|
| 20200100 | EARTH EXCAVATION | CU YD | 124 |
| 20700220 | POROUS GRANULAR EMBANKMENT | CU YD | 166 |
| 25000200 | SEEDING, CLASS 2 | ACRE | 0.07 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 7 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 7 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 7 |
| 25100115 | MULCH, METHOD 2 | ACRE | 0.03 |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 230 |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 165 |
| 28200200 | FILTER FABRIC | SQ YD | 97 |
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 77 |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 9 |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 107 |
| 50800105 | REINFORCEMENT BARS | POUND | 14940 |
| 51500100 | NAME PLATES | EACH | 1 |
| 54003000 | CONCRETE BOX CULVERTS | CU YD | 77.3 |
| 542D0229 | PIPE CULVERTS, CLASS D, TYPE 1 24" | FOOT | 49 |
| 54215559 | METAL END SECTIONS 24" | EACH | 2 |
| 63000025 | STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES | FOOT | 44 |
| 70101830 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 | L SUM | 1 |
| 70101835 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22 | L SUM | 1 |
| Z0013798 | CONSTRUCTION LAYOUT | LSUM | 1 |

**EARTHWORK SCHEDULE**

| LOCATION | EARTH EXCAVATION | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE | EMBANKMENT | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) |
|---|---|---|---|---|
| | CU. YD. | CU. YD. | CU. YD. | CU. YD. |
| | | | | |
| RT STA 205+10 TO STA 206+10 | 71 | 53 | 3 | 50 |
| LT STA 205+10 TO STA 206+10 | 53 | 40 | 15 | 25 |
| | | | | |
| | | | | |
| **TOTAL** | **124** | **93** | **18** | **75** |
| | | | | **FOR INFORMATION ONLY** |

**PAVING SCHEDULE**

| LOCATION | AGGREGATE SURFACE COURSE, TYPE B | AGGREGATE SHOULDERS, TYPE B |
|---|---|---|
| | TON | TON |
| | | |
| STA 205+10 TO STA 206+10 | 68.3 | 9 |
| STA 205+17, LT (DRIVEWAY) | 9.0 | --- |
| | | |
| **TOTAL** | 77.3 | 9 |

**EROSION CONTROL SCHEDULE**

| LOCATION | SEEDING, CLASS 2 | NITROGEN FERTILIZER NUTRIENT | PHOSPHORUS FERTILIZER NUTRIENT | POTASSIUM FERTILIZER NUTRIENT | MULCH METHOD 2 | EROSION CONTROL BLANKET |
|---|---|---|---|---|---|---|
| | ACRE | POUND | POUND | POUND | ACRE | SQ YD |
| | | | | | | |
| LT STA 204+90 TO 205+10 | 0.005 | 0.4 | 0.4 | 0.4 | 0.005 | 0 |
| RT STA 204+99 TO CREEK CROSSING | 0.015 | 1.4 | 1.4 | 1.4 | 0.004 | 57 |
| LT STA 205+20 TO CREEK CROSSING | 0.014 | 1.3 | 1.3 | 1.3 | 0.007 | 33 |
| RT CREEK CROSSING TO STA. 206+12 | 0.021 | 1.9 | 1.9 | 1.9 | 0.005 | 79 |
| LT CREEK CROSSING TO STA. 206+22 | 0.018 | 1.6 | 1.6 | 1.6 | 0.006 | 61 |
| **TOTAL** | 0.07 | 7 | 7 | 7 | 0.03 | 230 |

**MISCELLANEOUS REMOVAL SCHEDULE**

| LOCATION | PIPE CULVERT REMOVAL |
|---|---|
| | FOOT |
| | |
| STA 204+96 TO 205+59, LT | 64 |
| STA 205+61 | 43 |
| **TOTAL** | 107 |

**CULVERT SCHEDULE**

| LOCATION | PIPE CULVERTS, CLASS D, TYPE 1 24" | METAL END SECTIONS 24" |
|---|---|---|
| | FOOT | EACH |
| | | |
| 15.2' LT STA 204+96.0 TO 26' LT STA 205+50.5 | 49 | 2 |
| | | |
| **TOTAL** | 49 | 2 |

PIPE CULVERTS CLASS D SHALL BE BITUMINOUS COATED CORRUGATED STEEL PIPE.

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DRAWN BY: NOE
CHECKED BY: AJO
DATE: 03/16

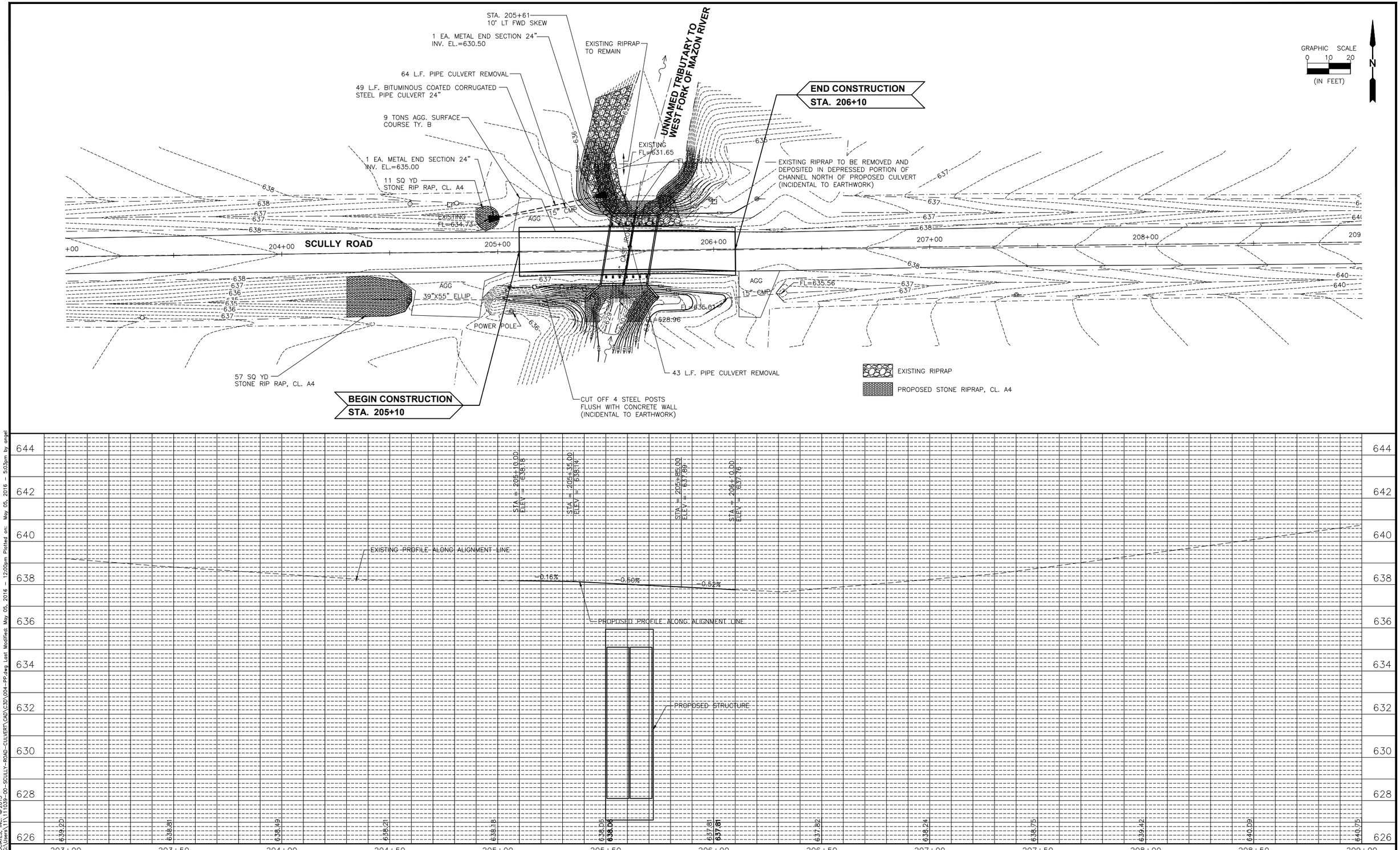
| REVISIONS | | | |
|---|---|---|---|
| LEVEL | BY | DATE | DESCRIPTION |
| | | | |

CHAMLIN & ASSOCIATES, INC.
PERU MORRIS ILLINOIS

**SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR**
**HIGHLAND TOWNSHIP**
**GRUNDY COUNTY**

**SUMMARY OF QUANTITIES AND SCHEDULE OF QUANTITIES**

CURRENT AS OF: 03/29/2016
SCALE: NONE
SHEET 3 OF 8
FILE NO.: 111039.00 Y-

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| DRAWN BY: NOE | REVISIONS | | | |
| CHECKED BY: AJO | LEVEL | BY | DATE | DESCRIPTION |
| DATE: 03/16 | | | | |

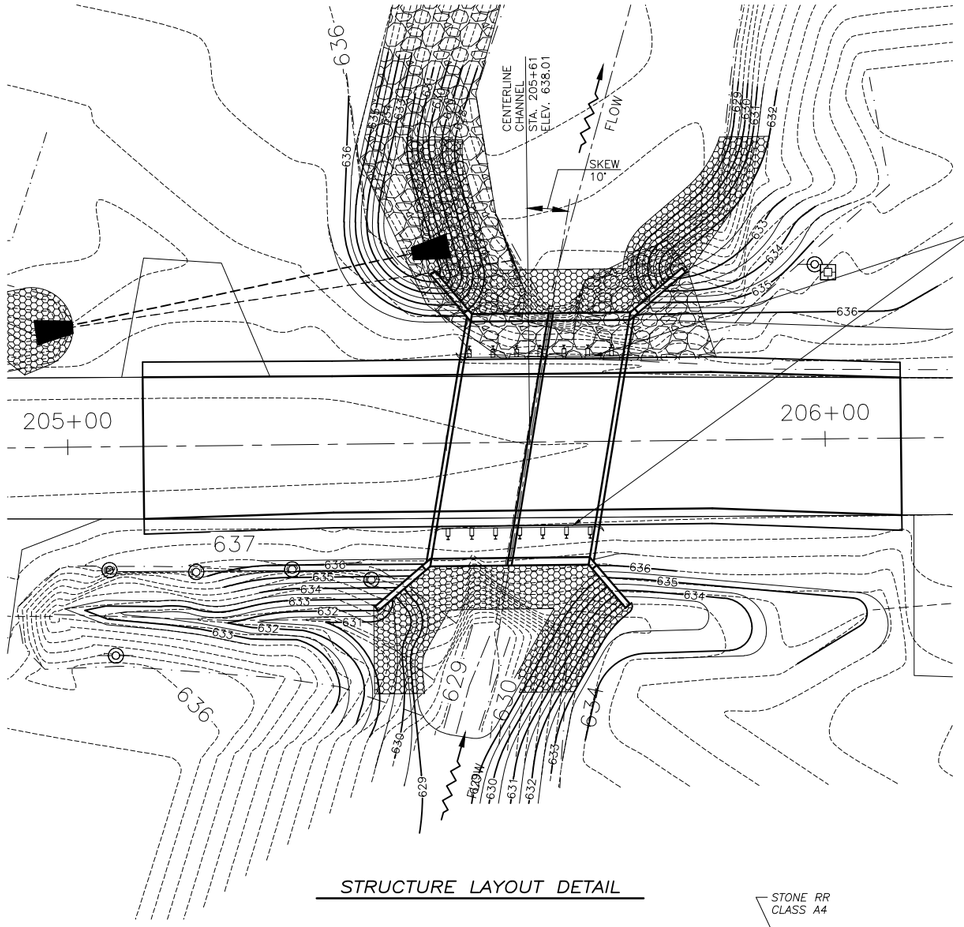
CHAMLIN & ASSOCIATES, INC.

PERU MORRIS
ILLINOIS

**SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR**
**HIGHLAND TOWNSHIP**
**GRUNDY COUNTY**

**PLAN & PROFILE**

CURRENT AS OF: 03/29/2016
SCALE: AS NOTED
SHEET 4 OF 8
FILE NO.: 111039.00 Y-




STRUCTURE LAYOUT DETAIL

## TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---|---|---|
| POROUS GRANULAR EMBANKMENT | CU YD | 166 |
| STONE RIPRAP CLASS A4 | SQ YD | 97 |
| FILTER FABRIC | SQ YD | 97 |
| PIPE CULVERT REMOVAL | FOOT | 43 |
| CONCRETE BOX CULVERTS | CU YD | 77.3 |
| REINFORCEMENT BARS | POUND | 14940 |
| STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES | FOOT | 44 |
| NAME PLATES | EACH | 1 |

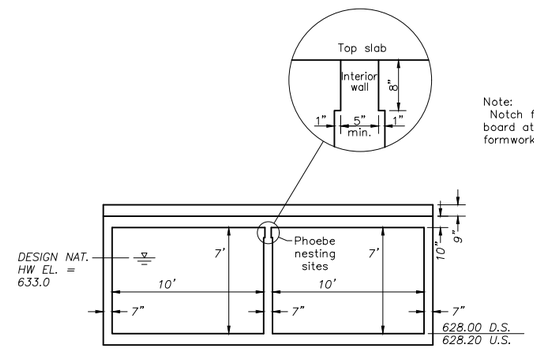
## GENERAL NOTES:

1. LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.
2. SEE SHEET 2 OF ROADWAY PLANS FOR BACKFILLING DETAILS.

## POST CENTERLINE LOCATIONS FOR GUARDRAIL ATTACHED TO STRUCTURE

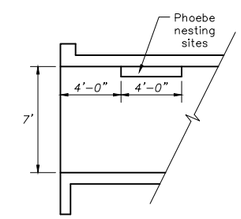
| STATION | OFFSET | STATION | OFFSET |
|---|---|---|---|
| 205+53.16 | 12.52 LT | 205+50.09 | 12.52 RT |
| 205+56.28 | 12.52 LT | 205+53.22 | 12.52 RT |
| 205+59.41 | 12.52 LT | 205+56.34 | 12.52 RT |
| 205+62.44 | 12.52 LT | 205+59.56 | 12.52 RT |
| 205+65.66 | 12.52 LT | 205+62.59 | 12.52 RT |
| 205+68.78 | 12.52 LT | 205+65.72 | 12.52 RT |
| 205+71.91 | 12.52 LT | 205+68.84 | 12.52 RT |

PROVIDE 1 1/2"ø SLEEVES FOR ATTACHMENT OF GUARDRAIL POSTS TO TOP OF CULVERT. SEE HIGHWAY STANDARD 630101 CASE IV DETAIL. COST SHALL BE CONSIDERED INCLUDED IN THE COST OF STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES.

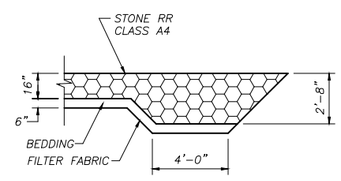



ELEVATION

Note:
Notch formed by rough-finished board attached to and removed with formwork.




LONGITUDINAL SECTION




SECTION A-A

## DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications with 2015 & 2016 interims

## DESIGN STRESSES

f'c= 3,500 PSI
fy= 60,000 PSI (Reinf.)

## LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

## SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. $S_{D1}$ = 0.10g
Design Spectral Acceleration at 0.2 sec. $S_{DS}$ = 0.18g
Soil Site Class = D

## WATERWAY INFORMATION

Drainage Area= 4.4 mi.² Low Grade Elev.= 637.66 @ sta. 206+30

| Flood | Freq. (Yr.) | Q C.F.S. | Opening ft.² Exist. Culvert | Exist. O.T.R. | Prop. Bridge | Prop. O.T.R. | Nat. H.W.E. | Head – ft. Exist. | Prop. | Headwater El. – ft. Exist. | Prop. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 322 | 19 | 20 | 90 | 0 | 632.7 | 5.3 | 0.3 | 638.0 | 633.0 |
| Design | 15 | 358 | 20 | 37 | 96 | 0 | 633.0 | 5.2 | 0.3 | 638.2 | 633.3 |
| Base | 100 | 527 | 25 | 107 | 114 | 0 | 633.9 | 4.6 | 0.4 | 638.5 | 634.3 |
| Overtopping | | | | | | | | | | | |
| Max. Calc. | 500 | 661 | 28 | 152 | 128 | 0 | 634.6 | 4.1 | 0.5 | 638.7 | 635.1 |

EXIST. 10 YEAR VELOCITY: 12.5 (FT./SEC.)
PROP. 10 YEAR VELOCITY: 3.4 (FT./SEC.)

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".

date

JAMES K. CLINARD
LICENSED STRUCTURAL ENGINEER NO. 081-004655
STATE OF ILLINOIS

expires 11-30-2016

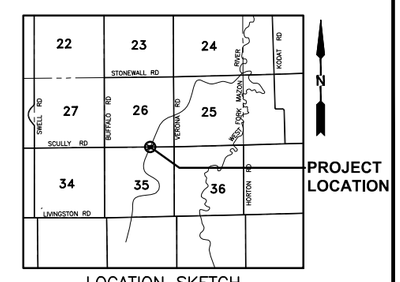
signature

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001717

UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER
BUILT 201_ BY
HIGHLAND TOWNSHIP
GRUNDY COUNTY
SEC. 13-09131-00-BR
STA. 205+61
STR. NO. 032-5510 LOADING HL-93

NAME PLATE (STD. 515001)

LOCATE NAME PLATE AT SOUTHWEST STRUCTURE WINGWALL




LOCATION SKETCH
NOT TO SCALE

| | | | |
|---|---|---|---|
| DRAWN BY: NOE | REVISIONS | | |
| CHECKED BY: AJO | LEVEL / BY / DATE / DESCRIPTION | | |
| DATE: 03/16 | | | |

CHAMLIN & ASSOCIATES, INC.

PERU MORRIS ILLINOIS

SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR
HIGHLAND TOWNSHIP
GRUNDY COUNTY

GENERAL PLAN AND ELEVATION

| | |
|---|---|
| CURRENT AS OF: 03/29/2016 | |
| SCALE: NONE | SHEET 5 |
| FILE NO.: 111039.00 Y- | OF 8 |

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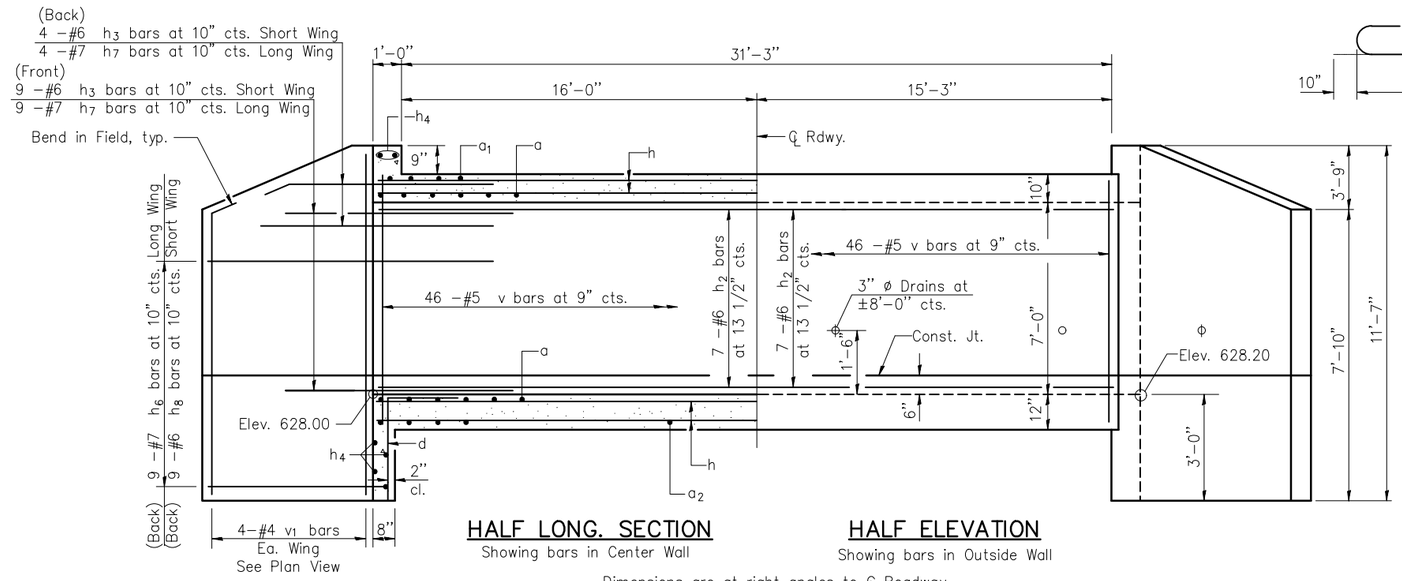
Drawing Name: G:\Users\11\111039-00-SCULLY-ROAD-CULVERT\CAD\CSD\005-GEN-PLAN.dwg Last Modified: Mar 29, 2016 - 1:18pm Plotted on: Mar 29, 2016 - 1:22pm by nancjv



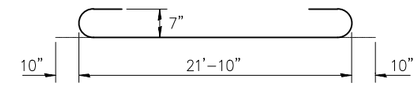

HALF LONG. SECTION

Showing bars in Center Wall

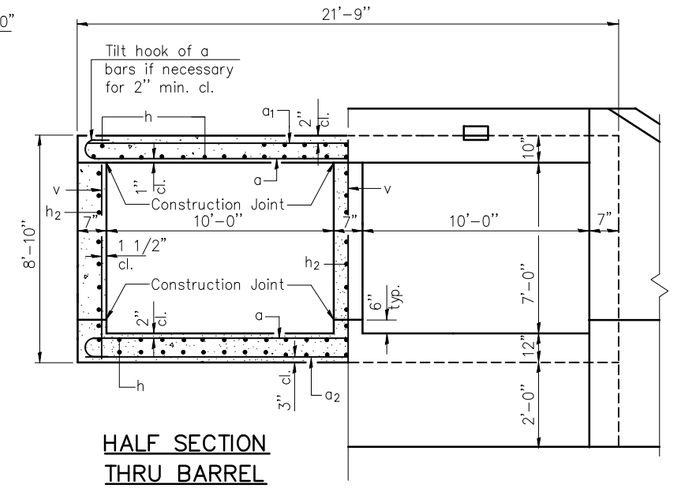
HALF ELEVATION

Showing bars in Outside Wall

Dimensions are at right angles to ℄ Roadway

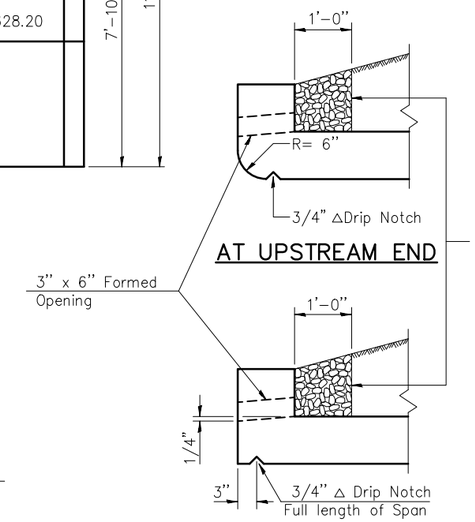



BAR a




HALF SECTION THRU BARREL

HALF END ELEVATION




AT UPSTREAM END

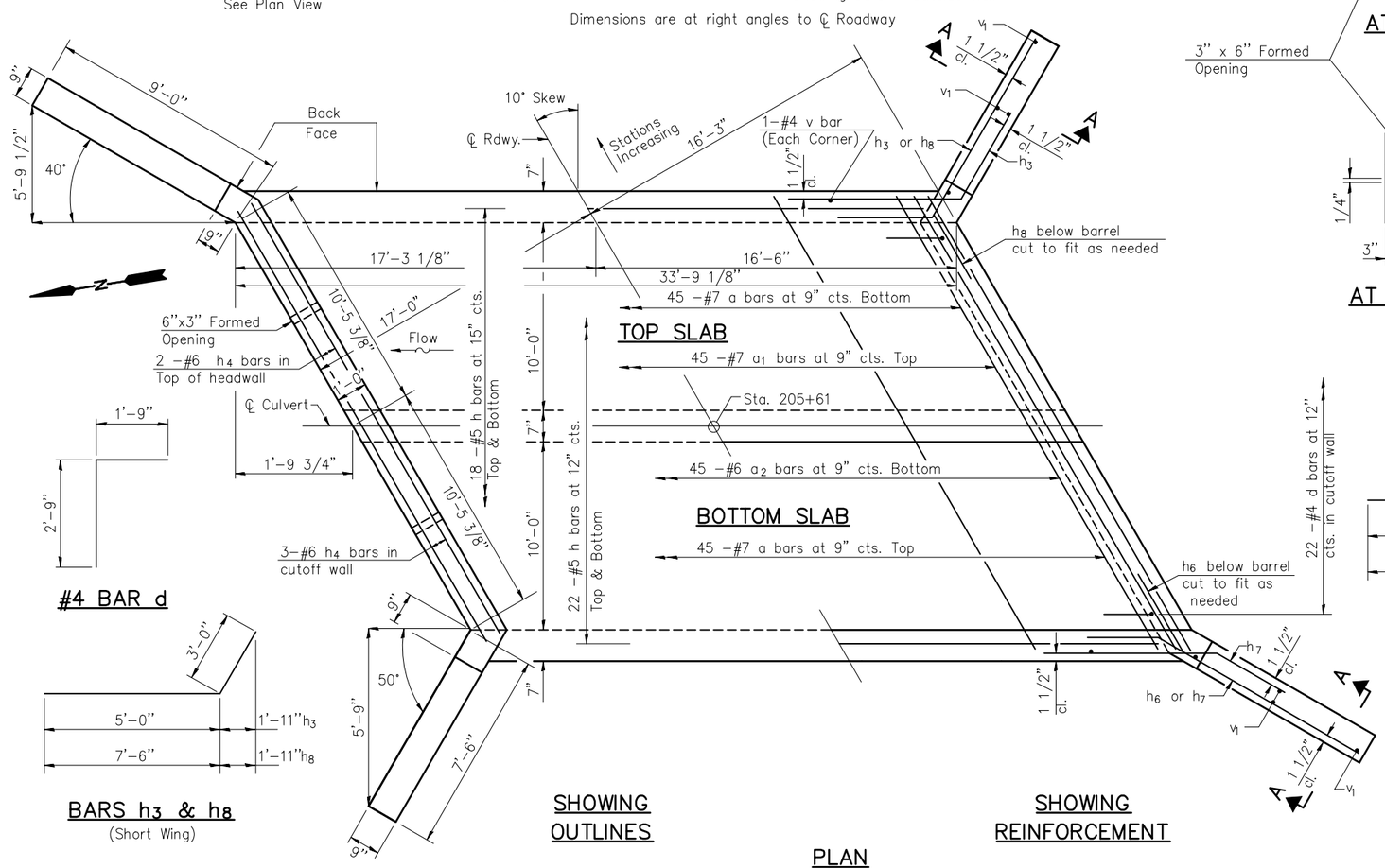
AT DOWNSTREAM END

DRAIN DETAIL

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.





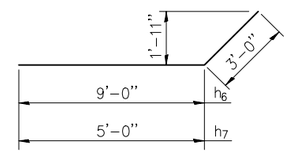


#4 BAR d




BARS h3 & h8

(Short Wing)



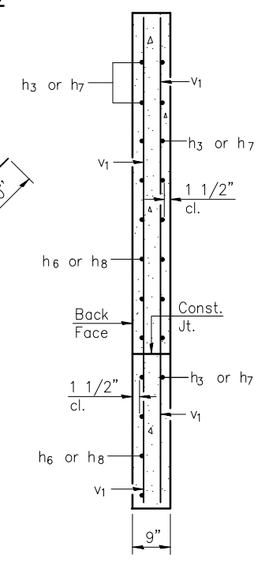

BARS h6 & h7

(Long Wing)

SHOWING OUTLINES

SHOWING REINFORCEMENT

PLAN




SECTION A–A

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| a | 90 | #7 | 23'–7" | |
| $a_1$ | 45 | #7 | 21'–10" | |
| $a_2$ | 45 | #6 | 21'–10" | |
| d | 44 | #4 | 4'–6" | |
| h | 80 | #5 | 33'–5" | |
| $h_2$ | 21 | #6 | 33'–5" | |
| $h_3$ | 26 | #6 | 8'–0" | |
| $h_4$ | 10 | #6 | 21'–0" | |
| $h_6$ | 18 | #7 | 12'–0" | |
| $h_7$ | 26 | #7 | 8'–0" | |
| $h_8$ | 18 | #6 | 10'–6" | |
| v | 142 | #5 | 8'–5" | |
| $v_1$ | 16 | #4 | 11'–3" | |
| Concrete Box Culverts | | | Cu. Yd. | 77.3 |
| Reinforcement Bars | | | Pound | 14940 |

| | | | |
|---|---|---|---|
| DRAWN BY: NOE | REVISIONS | | |
| CHECKED BY: AJO | LEVEL / BY / DATE / DESCRIPTION | | |
| DATE: 03/16 | | | |

CHAMLIN & ASSOCIATES, INC.

PERU MORRIS ILLINOIS

SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR
HIGHLAND TOWNSHIP
GRUNDY COUNTY

STRUCTURE DETAILS

CURRENT AS OF: 03/29/2016

SCALE: NONE | SHEET 6 OF 8

FILE NO.: 111039.00 Y–

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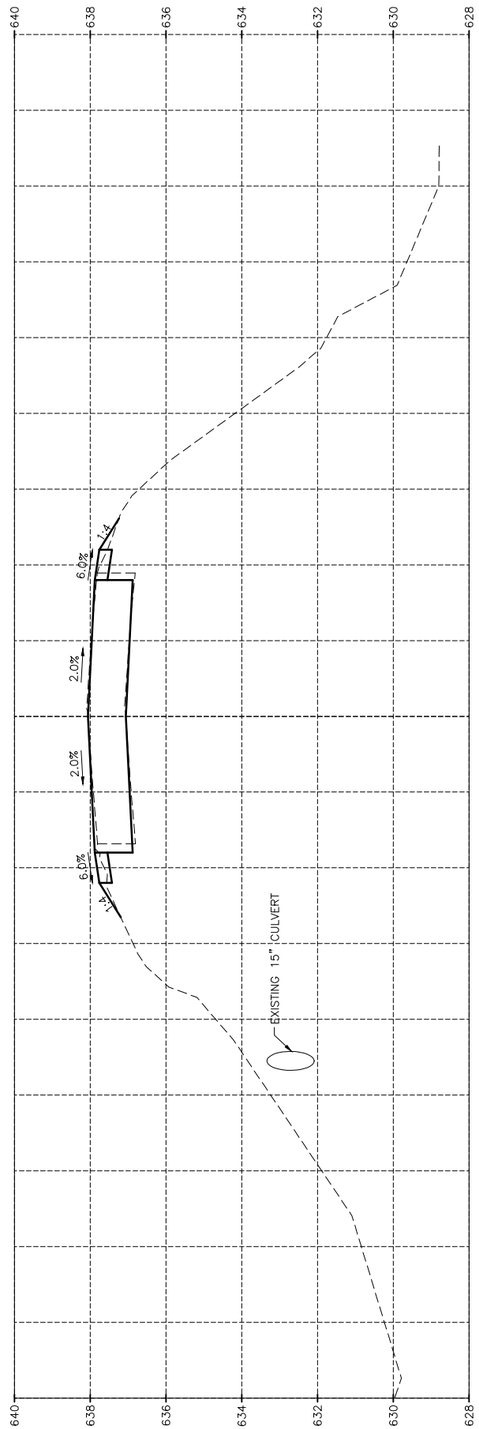
Drawing Name: G:\Users\11\111039-00-SCULLY-ROAD-CULVERT\CAD\C3D\006-DB-H-L.dwg Last Modified: Mar 29, 2016 – 12:51pm Plotted on: Mar 29, 2016 – 1:26pm by nancyk

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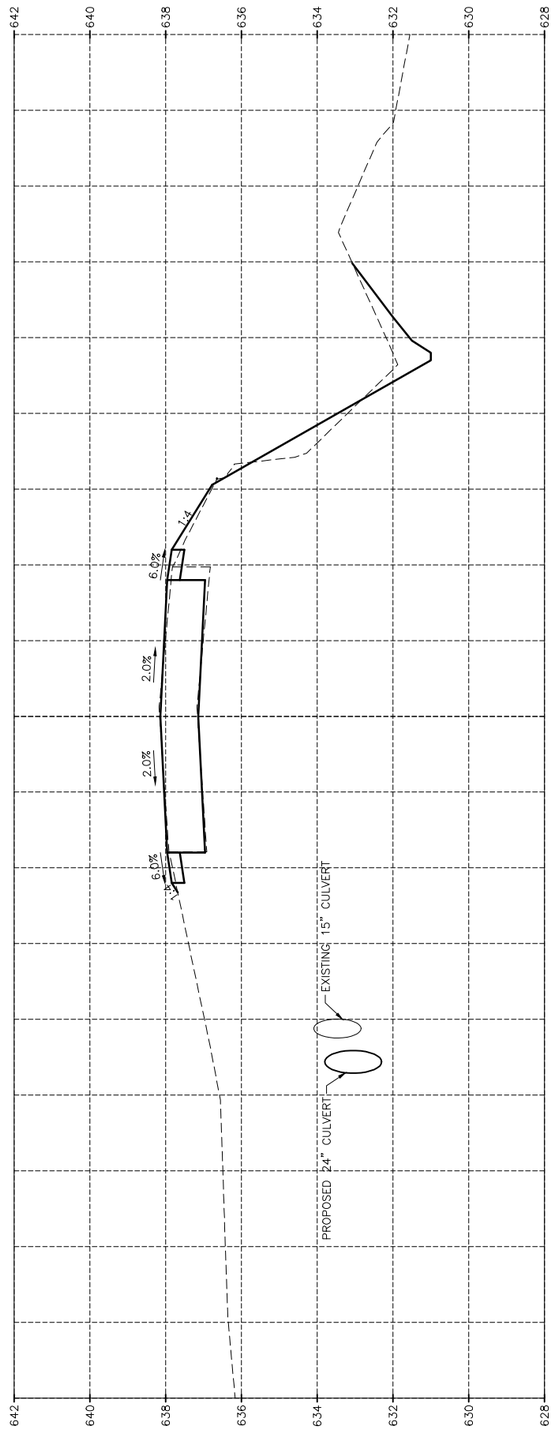


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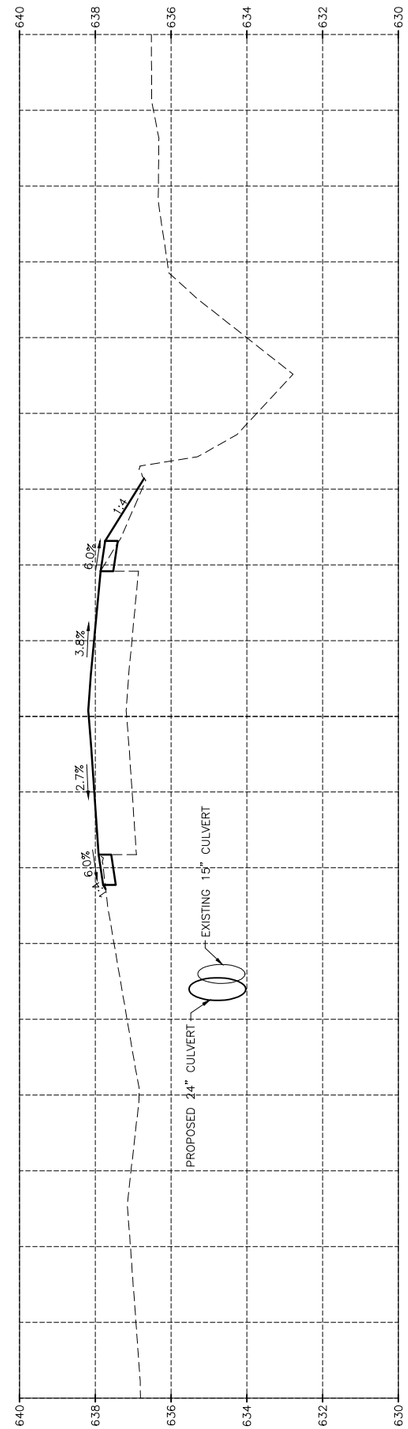


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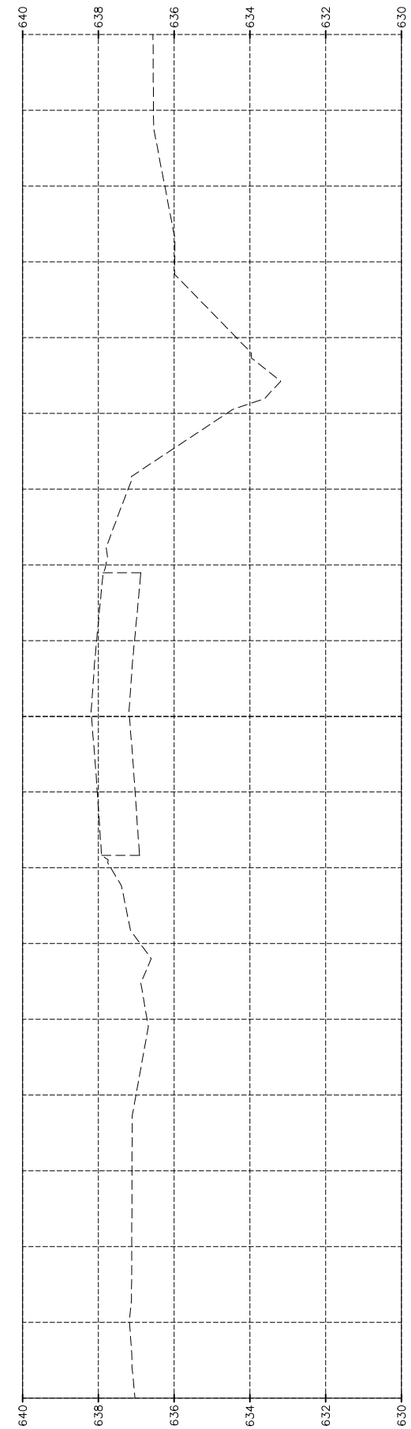

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| | | | | |
|---|---|---|---|---|
| DRAWN BY: NOE | REVISIONS | | | |
| CHECKED BY: AJO | LEVEL | BY | DATE | DESCRIPTION |
| DATE: 03/16 | | | | |

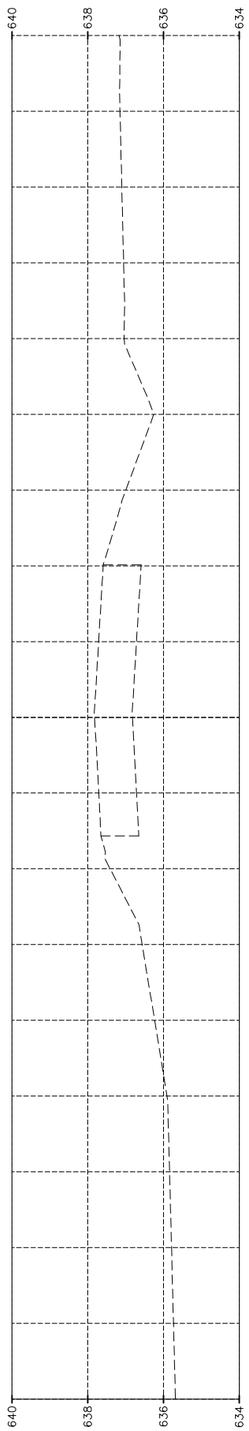
CHAMLIN & ASSOCIATES, INC.

PERU MORRIS
ILLINOIS

**SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR**
**HIGHLAND TOWNSHIP**
**GRUNDY COUNTY**

**CROSS SECTIONS**

CURRENT AS OF: 03/29/2016
SCALE: NONE
SHEET 7
FILE NO.: 111039.00 Y-
OF 8



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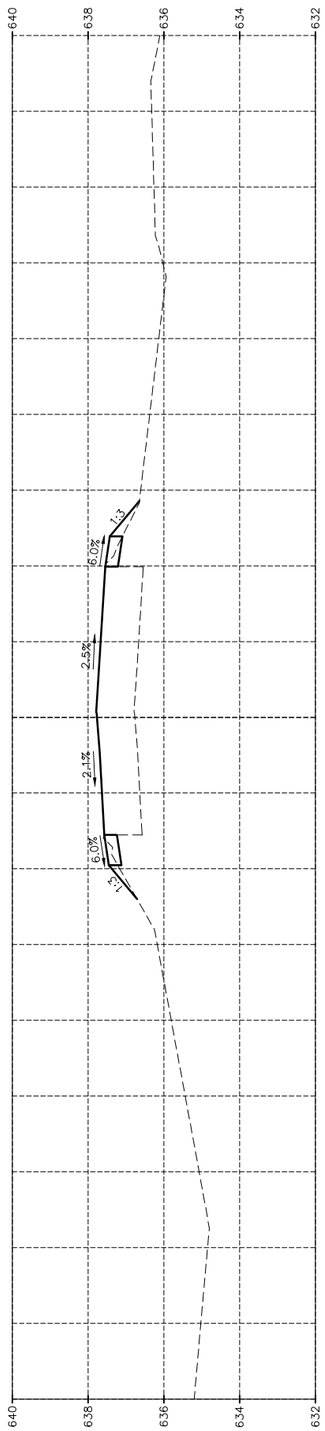


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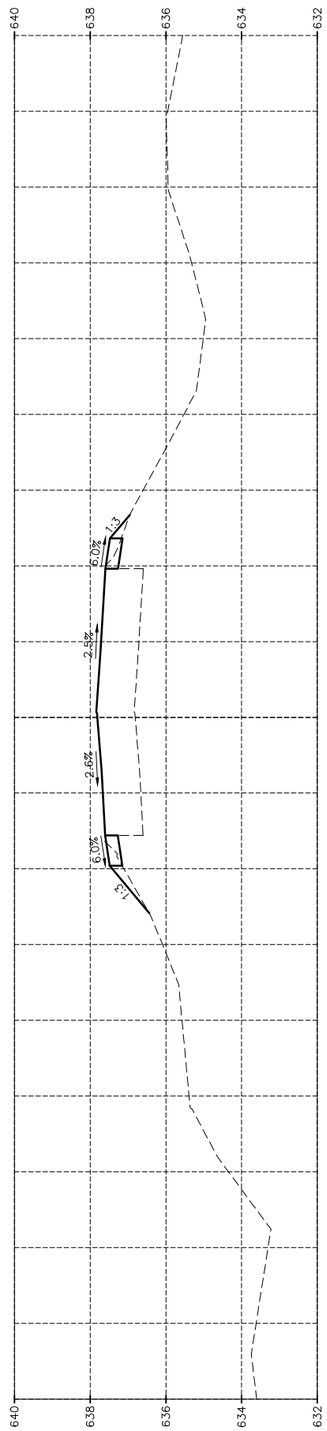


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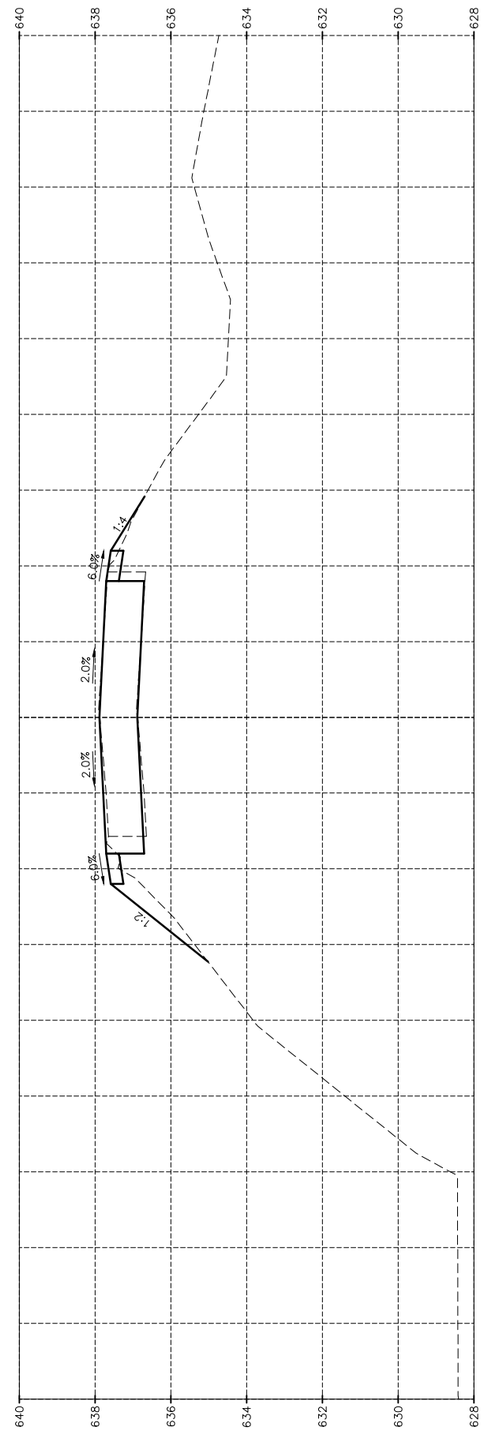


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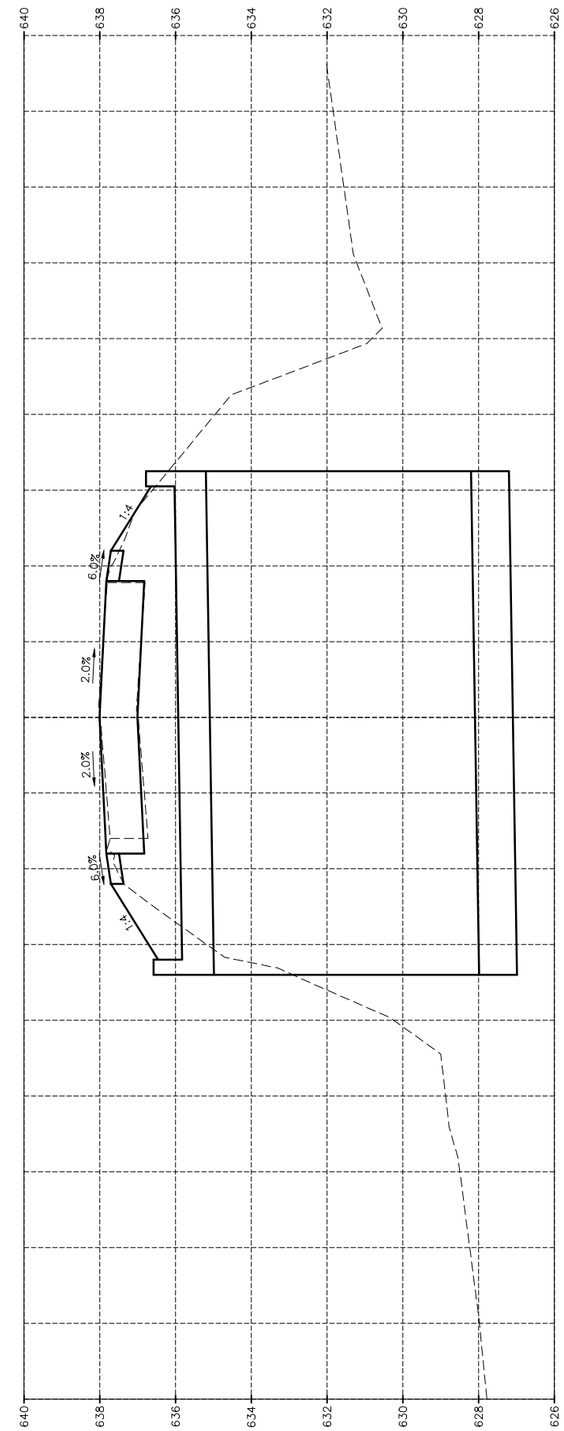


205+61.00

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| | | | | |
|---|---|---|---|---|
| DRAWN BY: NOE | REVISIONS | | | |
| CHECKED BY: AJO | LEVEL | BY | DATE | DESCRIPTION |
| DATE: 03/16 | | | | |

CHAMLIN & ASSOCIATES, INC.

PERU MORRIS
ILLINOIS

**SCULLY ROAD OVER UNNAMED TRIBUTARY TO WEST FORK OF MAZON RIVER, SECTION 13-09131-00-BR**
**HIGHLAND TOWNSHIP**
**GRUNDY COUNTY**

**CROSS SECTIONS**

| | |
|---|---|
| CURRENT AS OF: 03/29/2016 | |
| SCALE: NONE | SHEET 8 |
| FILE NO.: 111039.00 Y- | OF 8 |