

McDONOUGH COUNTY	SHEET NO.	1
CO. HWY 5	TOTAL SHEETS	22
PROJECT NO. XKCD(116)		
SECTION 18-00300-00-BR		

01-15-2021 LETTING ITEM 084

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT SURFACE TRANSPORTATION PROGRAM - BRIDGE

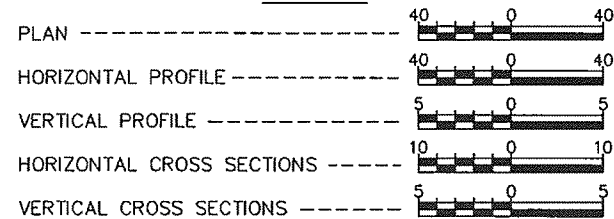
INDEX OF SHEETS

1. TITLE SHEET
2. GENERAL NOTES AND SUMMARY OF QUANTITIES
3. TYPICAL SECTIONS AND DETAILS
4. RIGHT OF WAY AND EROSION CONTROL PLAN
5. ROADWAY PLAN AND PROFILE
6. GENERAL PLAN AND ELEVATION
7. GENERAL INFORMATION
8. P.P.C. DECK BEAM SUPERSTRUCTURE DETAILS
9. P.P.C. DECK BEAM SUPERSTRUCTURE DETAILS
10. ABUTMENT DETAILS
11. STEEL RAILING TYPE S-1
12. HP PILE DETAILS
13. SOIL BORINGS
14. SOIL BORINGS
- 15.-22. ROADWAY CROSS SECTIONS

LIST OF STANDARDS

- | | |
|-----------|---|
| 280001-07 | TEMPORARY EROSION CONTROL DEVICES |
| 515001-04 | NAME PLATE FOR BRIDGES |
| 542401-04 | METAL FLARED END SECTIONS FOR PIPE CULVERTS |
| 601101-02 | CONCRETE HEADWALL FOR PIPE DRAINS |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPL) GUARDRAIL TERMINALS |
| 666001-01 | RIGHT OF WAY MARKERS |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| BLR21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES |
| BLR27-1 | TRAFFIC BARRIER TERMINAL, TYPE 5A |
| 720011-01 | METAL POST FOR SIGNS, MARKERS AND DELINEATORS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| 729001-01 | APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS) |

SCALES



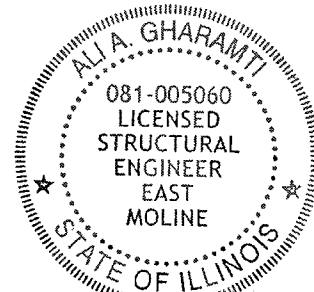
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALED MAY BE USED

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811

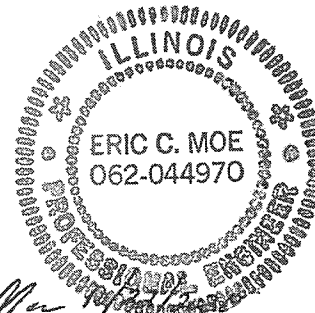


Know what's below.
Call before you dig.

EXISTING STRUCTURE NO. 055-3019
PROPOSED STRUCTURE NO. 055-3068
CONTRACT NO. 89759
CATALOGUE NO. 035566-00



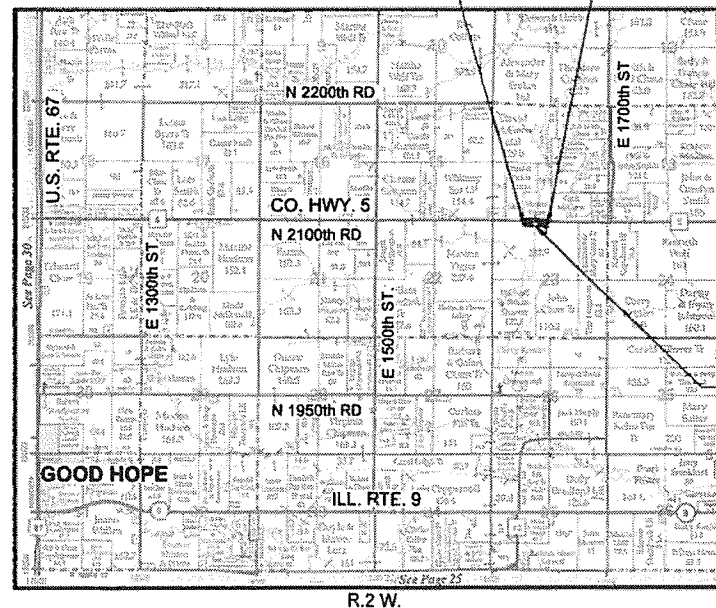
Signature: *Ali A. Gharamti*
Date: 10/22/20
Exp. Date: 11/20/21



Signature: *Eric C. MoE*
Exp. Date: 11/20/21

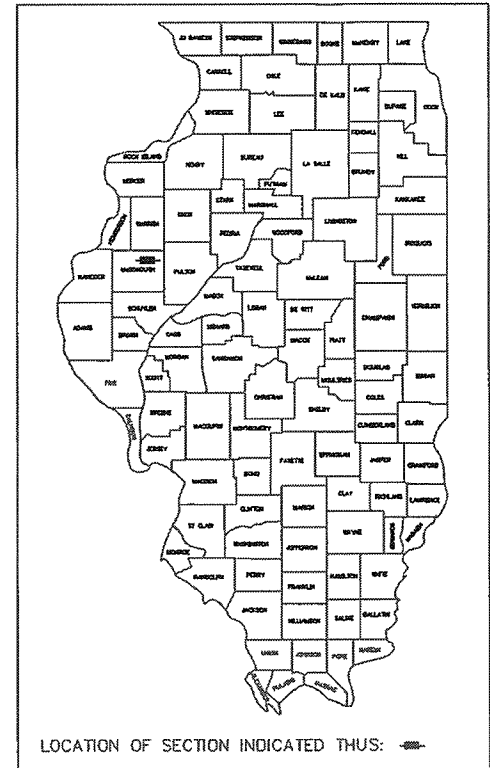
McDONOUGH COUNTY COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER SECTION 18-00300-00-BR JOB NO. C-94-027-19 FEDERAL PROJECT NO. XKCD(116) CONTRACT NO. 89759

PROPOSED IMPROVEMENT BEGINS, STA. 222+79.0
PROPOSED IMPROVEMENT ENDS, STA. 230+40.0



PROPOSED STRUCTURE
055-3068, SINGLE SPAN
P.P.C. DECK BEAMS,
33", 85'-0" BACK TO
BACK OF CONCRETE
ABUTMENTS, 32'-0"
OUT TO OUT OF DECK,
STA. 226+85.0

TOTAL AND NET LENGTH OF PROJECT: 761.0 FEET = 0.144 MILES
ROADWAY CLASSIFICATION: LOCAL ROAD (ADT = 50 (2016))
DESIGN GUIDELINES: BLR FEDERAL AID
DESIGN SPEED = 30 MPH



LOCATION OF SECTION INDICATED THUS:

APPROVED October 26 20 20

Ali Walden

McDONOUGH COUNTY ENGINEER

PASSED 10 29 20 20

John J. Jass
DISTRICT 4 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR
BID BASED ON
LIMITED REVIEW October 29 20 20

Ronald A. James
REGION 3 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

- ALL PROFILE GRADES ARE TO THE TOP OF THE FINISHED HOT MIX ASPHALT SURFACE COURSE.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE COST OF REMOVING ANY EXISTING CULVERTS IS TO BE CONSIDERED INCIDENTAL TO THE COST PER CUBIC YARD FOR EARTH EXCAVATION.
- THE NECESSARY REMOVAL OF ANY EXISTING FENCES ARE TO BE DONE BY THE COUNTY PRIOR TO THE BEGINNING OF CONSTRUCTION WITH THE COST TO BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT.
- THE EXISTING RIGHT OF WAY DIMENSIONS SHOWN ON THE PLAN/PROFILE AND CROSS SECTION SHEETS ARE ONLY APPROXIMATE.
- THE CONTRACTOR WILL NOT BE ALLOWED TO BURY THE EXISTING STRUCTURES OR TREES NEAR THE JOBSITE. THIS MATERIAL IS TO BE HAULED OFF THE AREA BY THE CONTRACTOR.
- THE COST TO REMOVE THE EXISTING BASE COURSE MATERIAL TO CONSTRUCT THE NEW BRIDGE IS TO BE CONSIDERED INCIDENTAL TO THE COST PER CUBIC YARD FOR EARTH EXCAVATION (WIDENING).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAWCUTTING BUTT JOINTS IN THE EXISTING BITUMINOUS PAVEMENT AT EACH END OF THE PROJECT LIMITS PRIOR TO REMOVING THE SURFACE AS DIRECTED BY THE ENGINEER. THIS WORK IS TO BE CONSIDERED INCIDENTAL TO THE COST PER SQUARE YARD FOR HMA SURFACE REMOVAL (VAR. DEPTH).
- TREE REMOVAL SHALL BE PERFORMED BY THE COUNTY PRIOR TO CONSTRUCTION.
- THE EXISTING STEEL TRUSSES SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STEEL STRINGERS, CONCRETE AND OTHER DEBRIS CREATED FROM REMOVAL OF EXISTING STRUCTURE SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL SALVAGE THE EXISTING RIPRAP AND STOCKPILE FOR REUSE IN PLACING THE RIPRAP IN THE NEW CHANNEL TO THE LINES AND GRADES SHOWN ON THE PLAN.
- THERE EXISTS OLD STEEL H-PILES FROM OLD ABUTMENTS AND STEEL SHEET PILING USED FOR BACKWALL OF AN OLD STRUCTURE THAT HAVE BEEN CUT OFF AND EXISTS BELOW THE EXISTING RIPRAP. DURING CONSTRUCTION OF NEW CHANNEL, IF THESE FEATURES ARE ENCOUNTERED, THEY SHALL BE CUT OFF TO 12" BELOW THE BOTTOM OF THE NEW RIPRAP. COST SHALL BE INCLUDED IN THE CONTRACT PRICE PER CUBIC YARD FOR CHANNEL EXCAVATION.

APPLICATION RATES:

QUANTITIES NOT OTHERWISE SHOWN

EARTHWORK SUMMARY

LOCATION	EARTH EXC	E. EXC. WID.	EMBANK	FURN EXC
STA 223+79 TO 226+50	985	47	2440	1665
STA 227+19 TO 230+40	555	31	1670	1230
TOTAL	1540	78	4110	2895

FURNISHED EXCAVATION WAS CALCULATED IN ACCORDANCE WITH ART. 204.07(b) OF THE STANDARD SPECIFICATIONS. EMBANKMENT WILL NOT BE MEASURED FOR PAYMENT

AGGREGATE BASE COURSE TY, A

STA 223+79 TO 226+40.5 = 48.6 TONS PER SIDE x 2 = 97.2 TONS
 STA 227+25.5 TO 229+40 = 40.0 TONS PER SIDE x 2 = 80.0 TONS
 TOTAL = 177.2 TONS

AGGREGATE SHOULDERS TY, B

STA 223+79 TO 226+40.5 = 36.5 TONS PER SIDE x 2 = 73 TONS
 STA 227+25.5 TO 229+40 = 30.0 TONS PER SIDE x 2 = 60 TONS
 TOTAL = 133 TONS

CONSTRUCTION LAYOUT

STA 223+79 TO 230+40 = 1 LUMP SUM
 TOTAL = 1 LUMP SUM

HMA SURFACE COURSE, IL-9.5, MIX C, N50 = 112 LBS PER INCH PER SQ. YD.
 HMA BINDER COURSE, IL-19.0, N50 = 112 LBS PER INCH PER SQ. YD.
 HMA BINDER COURSE, IL-19.0, N50 (VAR. DEPTH) = 112 LBS PER INCH PER SQ. YD.
 AGGREGATE BASE COURSE, TYPE A = 2.0 TONS PER CUBIC YARD
 AGGREGATE SHOULDERS, TYPE B = 2.0 TONS PER CUBIC YARD
 STONE DUMPED RIPRAP = 1.75 TONS PER CUBIC YARD
SEEDING:
 NITROGEN FERTILIZER NUTRIENT = 90 POUNDS PER ACRE
 PHOSPHORUS FERTILIZER NUTRIENT = 90 POUNDS PER ACRE
 POTASSIUM FERTILIZER NUTRIENT = 90 POUNDS PER ACRE
 TEMPORARY EROSION CONTROL SEEDING = 100 POUNDS PER ACRE

BITUMINOUS MATERIAL RATES

SURFACE TYPE		ESTIMATED APPLICATION RATE
AGGREGATE BASE	PRIME	0.35 GAL/SY (2.8 LBS/SY)
MILLED (HMA OR PCC)	TACK	0.08 GAL/SY (0.6 LBS/SY)
EXISTING PAVEMENT	TACK	0.08 GAL/SY (0.6 LBS/SY)
FOG COAT (BETWEEN LIFTS)	TACK	0.08 GAL/SY (0.6 LBS/SY)

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM -D4 PI0100
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM -D4 PI0101

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

HMA BINDER COURSE, IL-19.0, N50

2.25" STA 223+79 TO 226+40.5 = 83.0 TONS
 VAR. STA 225+11 TO 226+40.5 = 29.4 TONS
 VAR. STA 227+25.5 TO 228+06 = 19.0 TONS
 2.25" STA 227+25.5 TO 229+40 = 68.1 TONS
 TOTAL = 199.5 TONS

HMA SURFACE COURSE, IL-9.5 MIX "C", N50

3" STA 223+79 TO 226+40.5 = 107.4 TONS
 3" STA 226+40.5 TO 227+25.5 = 50.8 TONS
 3" STA 227+25.5 TO 229+40 = 88.1 TONS
 TOTAL = 246.3 TONS

BITUMINOUS MATERIALS (PRIME COAT)

STA 223+79 TO 226+40.5 = 305 POUNDS
 STA 227+25.5 TO 229+40 = 250 POUNDS
 TOTAL = 555 POUNDS

BITUMINOUS MATERIALS (TACK COAT)

STA 223+79 TO 226+40.5 = 759 POUNDS
 STA 226+40.5 TO 227+25.5 = 121 POUNDS
 STA 227+25.5 TO 229+40 = 624 POUNDS
 TOTAL = 1504 POUNDS

AGGREGATE DITCH

LT STA 226+20.5 TO 226+70 = 85 TONS
 RT STA 226+20.5 TO 226+43.5 = 49 TONS
 LT STA 227+15 TO 227+45.5 = 61 TONS
 RT STA 227+22.5 TO 227+45.5 = 44 TONS
 TOTAL = 239 TONS

PAVEMENT REMOVAL

(INCLUDED IN COST FOR EARTH EXCAVATION (WIDENING))
 RT STA 223+79 TO 226+40 = 57.7 SY
 LT STA 223+79 TO 226+40 = 51.3 SY
 RT STA 227+25.5 TO 229+40 = 55.0 SY
 LT STA 227+25.5 TO 229+40 = 101.5 SY
 TOTAL = 265.5 SQ YD

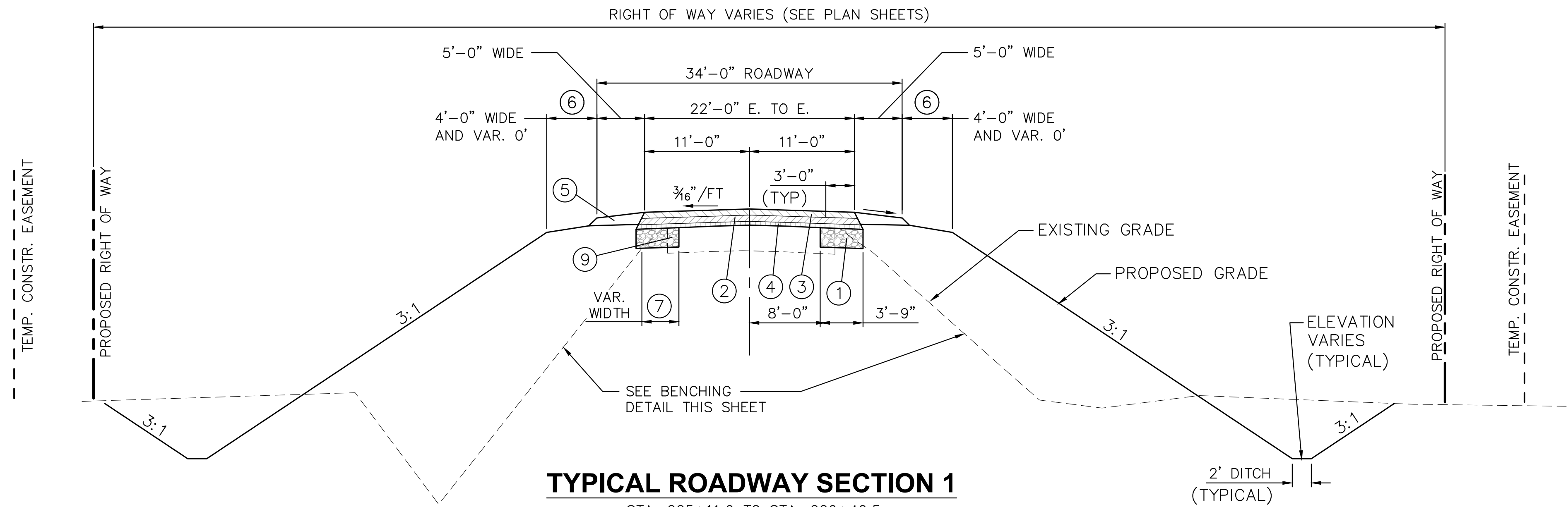
HOT-MIX ASPHALT SURFACE REMOVAL

(VAR DEPTH)
 STA 223+79 TO 225+11 = 306.5 SY
 STA 228+06 TO 229+40 = 542.0 SY
 TOTAL = 848.5

Δ SPECIALTY ITEMS

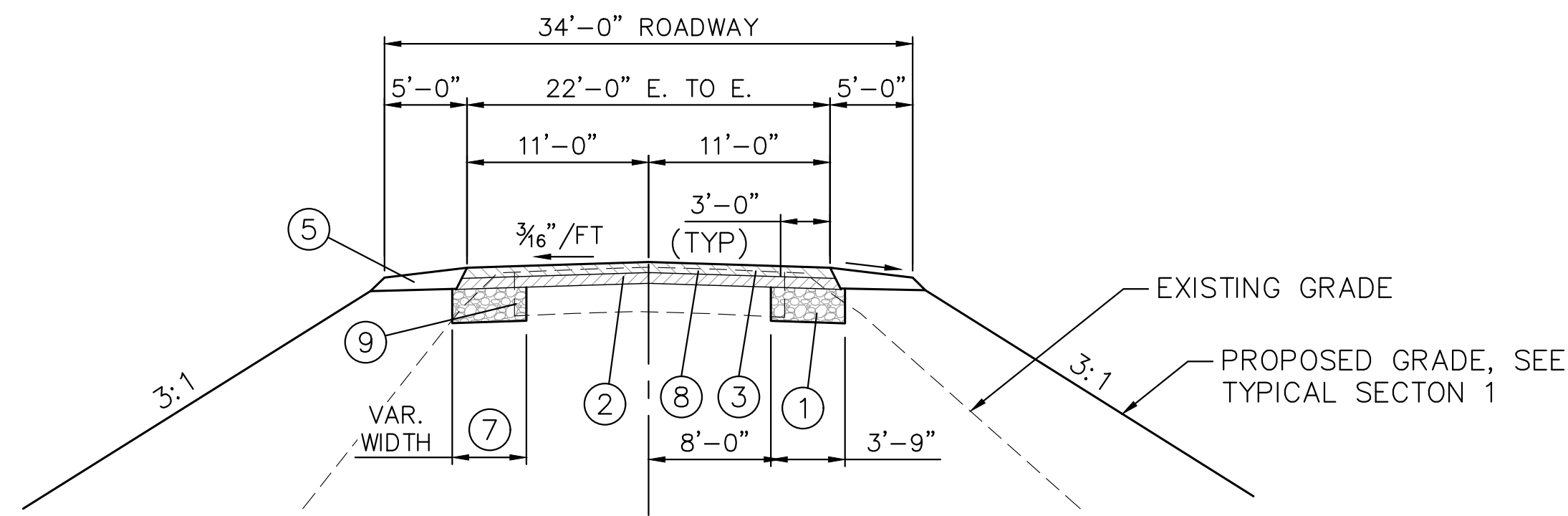
SUMMARY OF QUANTITIES			
CODE #	ITEM	UNIT	QUANTITY
			STP-Br FED 80%/Local 20% 0010
20200100	EARTH EXCAVATION	CU YD	1540
20200500	EARTH EXCAVATION (WIDENING)	CU YD	78
20300100	CHANNEL EXCAVATION	CU YD	612
20400800	FURNISHED EXCAVATION	CU YD	2895
25000200	SEEDING CLASS 2	ACRE	1.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	115
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	115
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	115
25100105	MULCH, METHOD 1	ACRE	1.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	125
28000305	TEMPORARY DITCH CHECKS	FOOT	77
28000400	PERMETER EROSION BARRIER	FOOT	1465
28300400	AGGREGATE DITCH	TON	239
28100127	STONE RIPRAP, CLASS B4	SQ YD	1185
28200200	FILTER FABRIC	SQ YD	1185
35100100	AGGREGATE BASE COURSE, TYPE A	TON	177.2
40600275	BITUMINOUS MATERIALS PRIME COAT	POUND	555
40600290	BITUMINOUS MATERIALS TACK COAT	POUND	1504
40603080	HMA BINDER COURSE, IL-19.0, N50	TON	199.5
40604050	HMA SURFACE COURSE, IL-9.5, MIX C, N50	TON	246.3
48101200	AGGREGATE SHOULDERS, TYPE B	TON	133
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	62
50300225	CONCRETE STRUCTURES	CU YD	17
50300280	CONCRETE ENCASEMENT	CU YD	4.2
50400605	PP CONCRETE DECK BEAMS (33" DP.)	SQ FT	2656
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4060
Δ 50900205	STEEL RAILING, TYPE S-1	FOOT	170
51201400	FURNISHING STEEL PILES HP 10x42	FOOT	630
51202305	DRIVING PILES	FOOT	630
51203400	TEST PILE STEEL HP 10x42	EACH	1
51204650	PILE SHOES	EACH	12
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	295
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	581
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	42
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	2
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TY. A, 6 FOOT POSTS	FT	50
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8
67100100	MOBILIZATION	L SUM	1
Δ 72501000	TERMINAL MARKERS DIRECT APPLIED	EACH	4
Δ 78200005	GUARDRAIL REFLECTORS TYPE A	EACH	8
X4401198	HOT-MIX ASPHALT SURFACE REM (VAR DEPTH)	SQ YD	848.5
X7011800	TRAFFIC CONTROL AND PROTECTION, STD BLR 21	L SUM	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	134





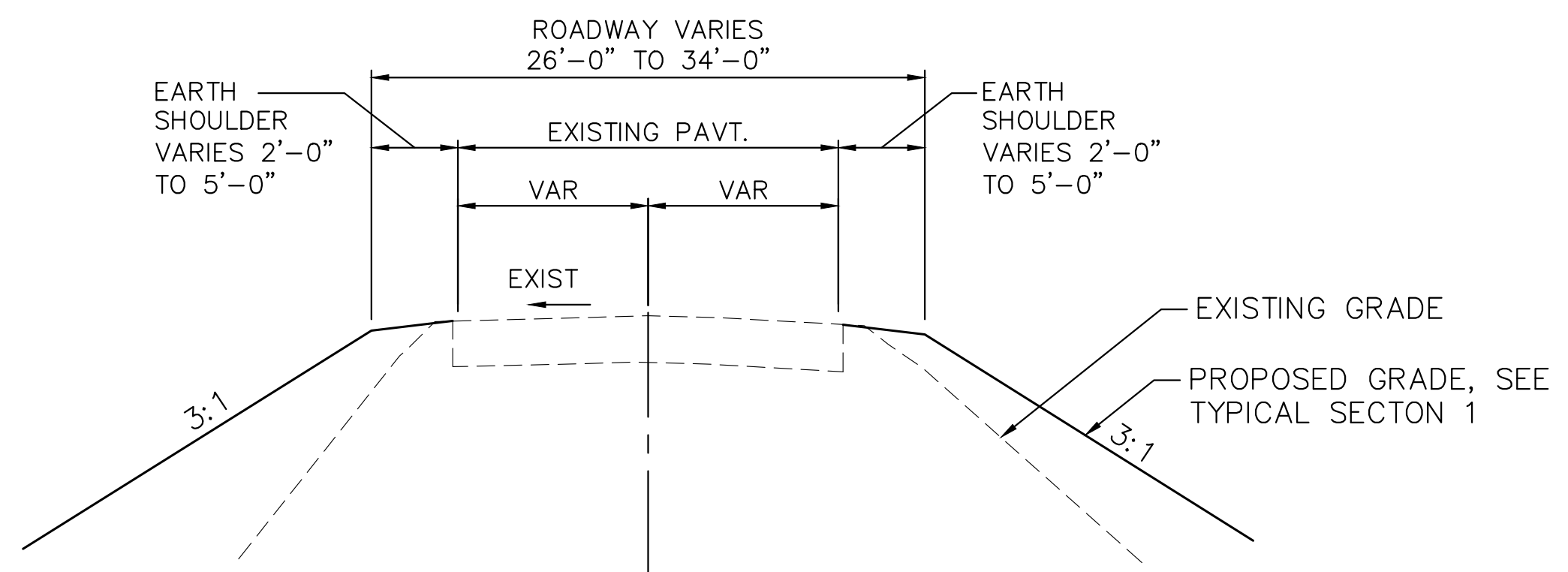
TYPICAL ROADWAY SECTION 1

STA. 225+11.0 TO STA. 226+40.5
 STA. 227+25.5 TO STA. 228+06.0



TYPICAL ROADWAY SECTION 2

STA. 224+79.0 TO STA. 225+11.0
 STA. 228+06.0 TO STA. 229+40.0



TYPICAL ROADWAY SECTION 3

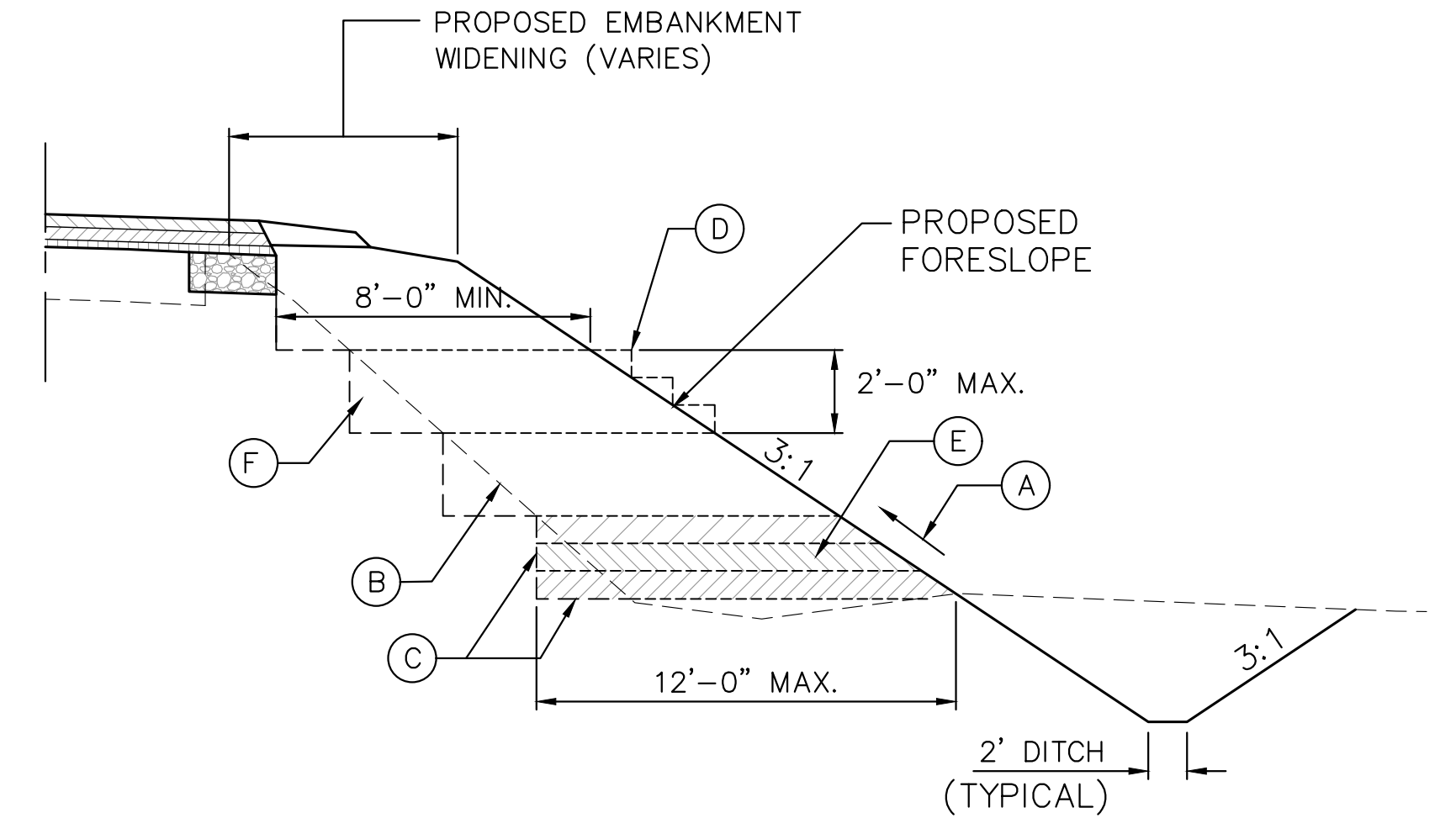
STA. 223+79.0 TO STA. 224+79.0
 STA. 229+40.0 TO STA. 230+40.0

HOT-MIX ASPHALT REQUIREMENTS

MIXTURE USES	SURFACE COURSE	BINDER COURSE
PG	64-22	64-22
DESIGN AIR VOIDS	4.0% @Ndes = 50	4.0% @Ndes = 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE C (DOLOMITE OR 1/4")	N/A
MIXTURE WEIGHT	112 lb/SQ. YD./INCH	112 lb/SQ. YD./INCH
QUALITY MGMT PROGRAM	QCQA	QCQA
SUBLOT SIZE	N/A	N/A

TYPICAL SECTION LEGEND

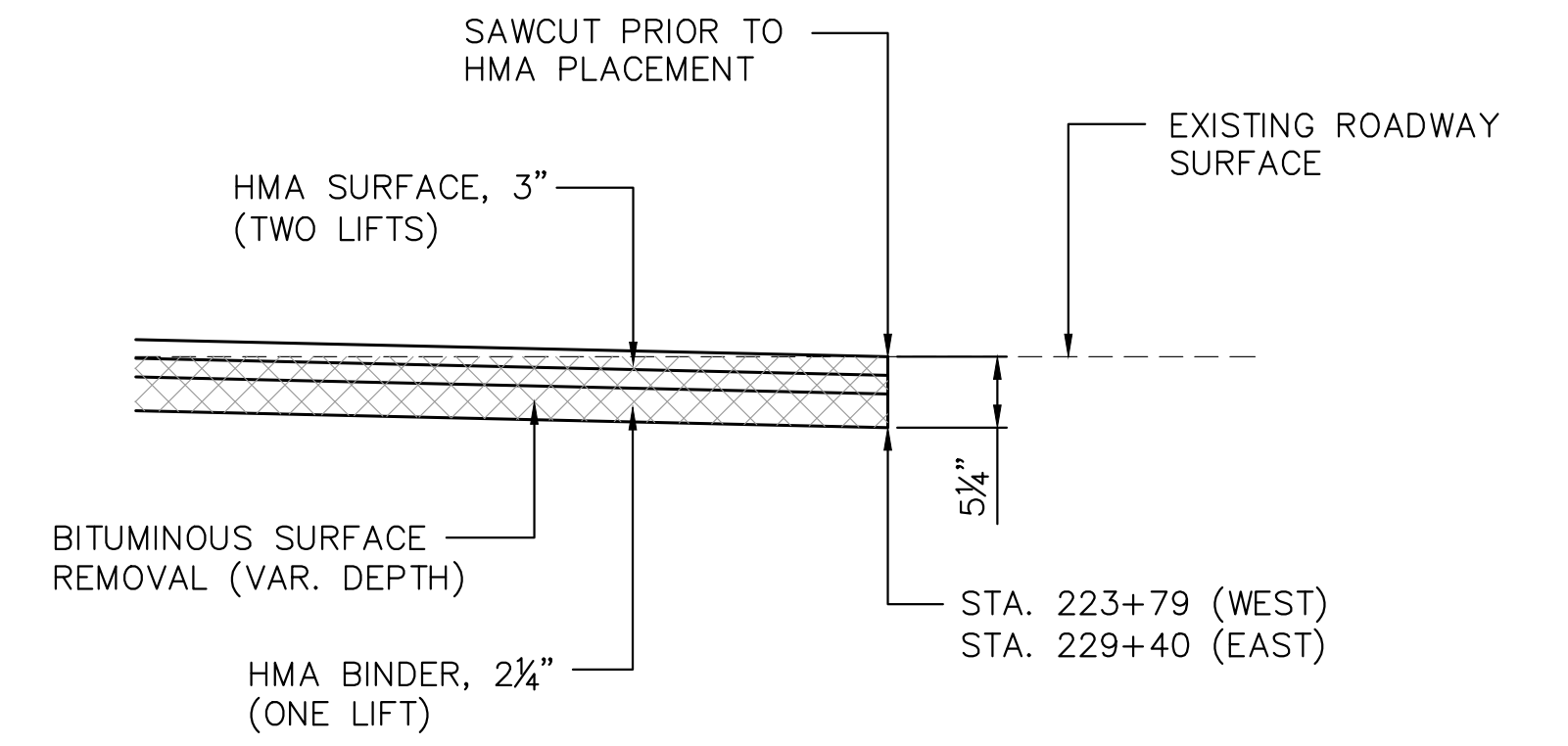
- ① PROPOSED AGGREGATE BASE COURSE, TYPE A, 8" (TYPICAL EACH SIDE)
- ② PROPOSED 2 1/4" HMA BINDER COURSE, IL-19.0, N50 (PLACED IN ONE LIFT)
- ③ PROPOSED HMA SURFACE COURSE, MIX C, N50, 3" (PLACED IN TWO LIFTS)
- ④ PROPOSED (VAR. DEPTH) HMA BINDER COURSE, IL-19.0, N50
- ⑤ AGGREGATE SHOULDER TYPE-B (5" TO 4" DEPTH). SLOPE AT 3/4"/FT (TYPICAL EACH SIDE)
- ⑥ SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL TANGENT, EACH CORNER WHERE SHOWN ON PLAN, REFER STD. 630301)
- ⑦ EARTH EXCAVATION (WIDENING)
- ⑧ BITUMINOUS SURFACE REMOVAL (VAR. DEPTH)
- ⑨ REMOVAL OF EXISTING PAVEMENT REQUIRED FOR NEW BASE COURSE SHALL BE CONSIDERED AS INCLUDED IN THE COST FOR EARTH EXCAVATION (WIDENING)



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- Ⓐ CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIR STEP FASHION.
- Ⓑ EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- Ⓒ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP
- Ⓓ TRIM TO FINAL SLOPE.
- Ⓔ EQUAL 8" LIFTS OF EMBANKMENT COMPACTION IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- Ⓕ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- Ⓖ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 1:4 AND THE HEIGHT IS GREATER THAN 5'.



BUTT JOINT DETAIL

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 IL DESIGN FIRM NO. 184-000843



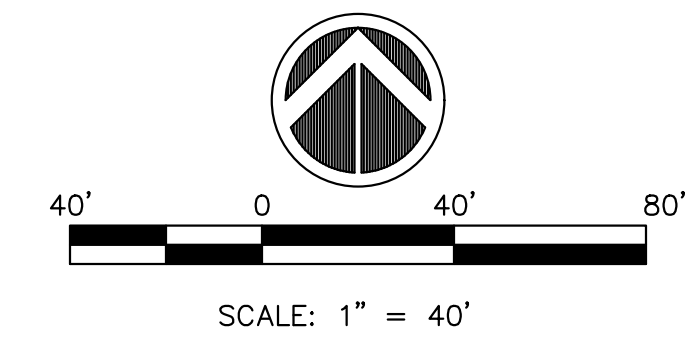
DESIGNED - ECM/AAG
 DRAWN - TAB
 CHECKED - ECM/AAG
 DATE - 10-05-20

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

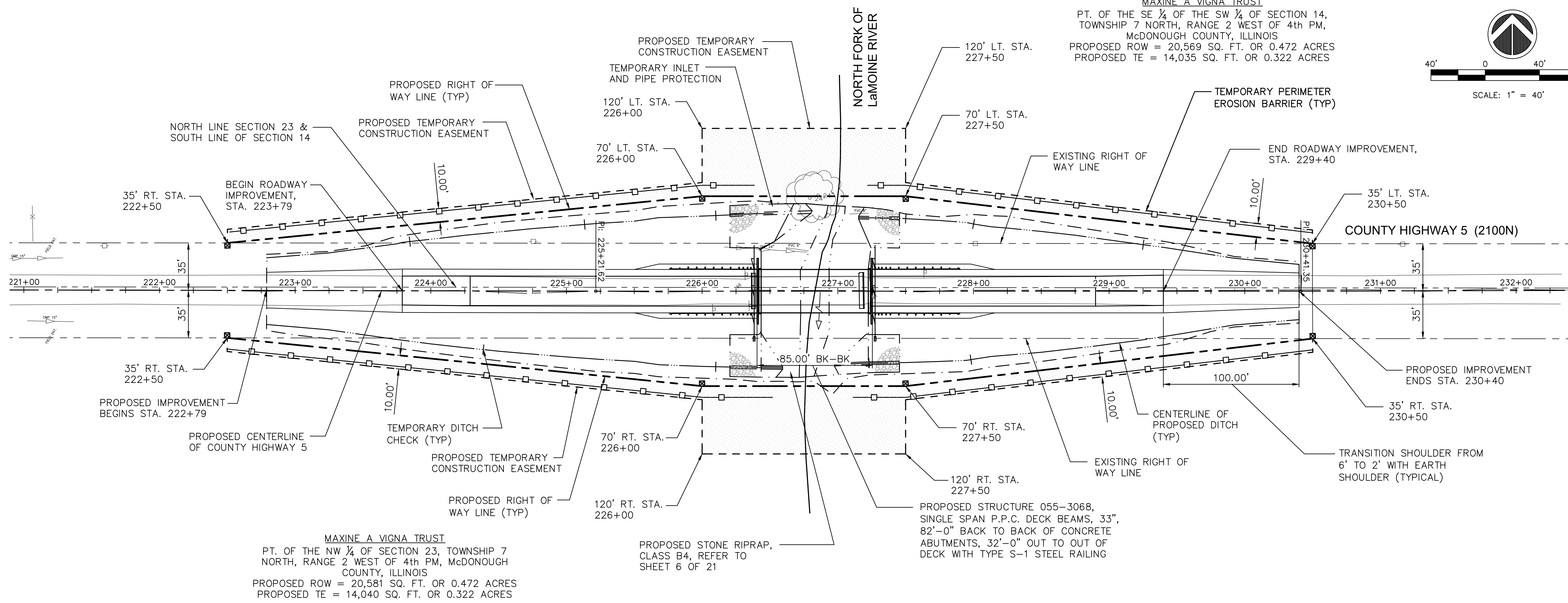
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND DETAILS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	3
ILLINOIS			CONTRACT NO. 89759	



MAXINE A VIGNA TRUST
 PT. OF THE SE 1/4 OF THE SW 1/4 OF SECTION 14,
 TOWNSHIP 7 NORTH, RANGE 2 WEST OF 4th PM,
 McDONOUGH COUNTY, ILLINOIS
 PROPOSED ROW = 20,569 SQ. FT. OR 0.472 ACRES
 PROPOSED TE = 14,035 SQ. FT. OR 0.322 ACRES



MAXINE A VIGNA TRUST
 PT. OF THE NW 1/4 OF SECTION 23, TOWNSHIP 7
 NORTH, RANGE 2 WEST OF 4th PM, McDONOUGH
 COUNTY, ILLINOIS
 PROPOSED ROW = 20,581 SQ. FT. OR 0.472 ACRES
 PROPOSED TE = 14,040 SQ. FT. OR 0.322 ACRES

FURNISHING AND ERECTING RIGHT OF WAY MARKERS

35.0' RT STA 222+50.0 =	1 EA
35.0' LT STA 222+50.0 =	1 EA
70.0' RT STA 226+00.0 =	1 EA
70.0' LT STA 226+00.0 =	1 EA
70.0' RT STA 227+50.0 =	1 EA
70.0' LT STA 227+50.0 =	1 EA
35.0' RT STA 230+50.0 =	1 EA
35.0' LT STA 230+50.0 =	1 EA
TOTAL =	8 EACH

TEMPORARY EROSION CONTROL SEEDING
 1.25 ACRES SEEDING x 100# = 125 POUNDS
TOTAL = 125 POUNDS

TEMPORARY DITCH CHECKS

LT STA 223+85 =	7 FT
RT STA 224+38 =	7 FT
LT STA 225+14 =	7 FT
LT STA 226+10 =	7 FT
RT STA 226+10 =	7 FT
RT STA 226+43 =	7 FT
RT STA 227+25 =	7 FT
LT STA 227+50 =	7 FT
RT STA 227+98 =	7 FT
LT STA 228+00 =	7 FT
LT STA 229+25 =	7 FT
TOTAL =	77 FT

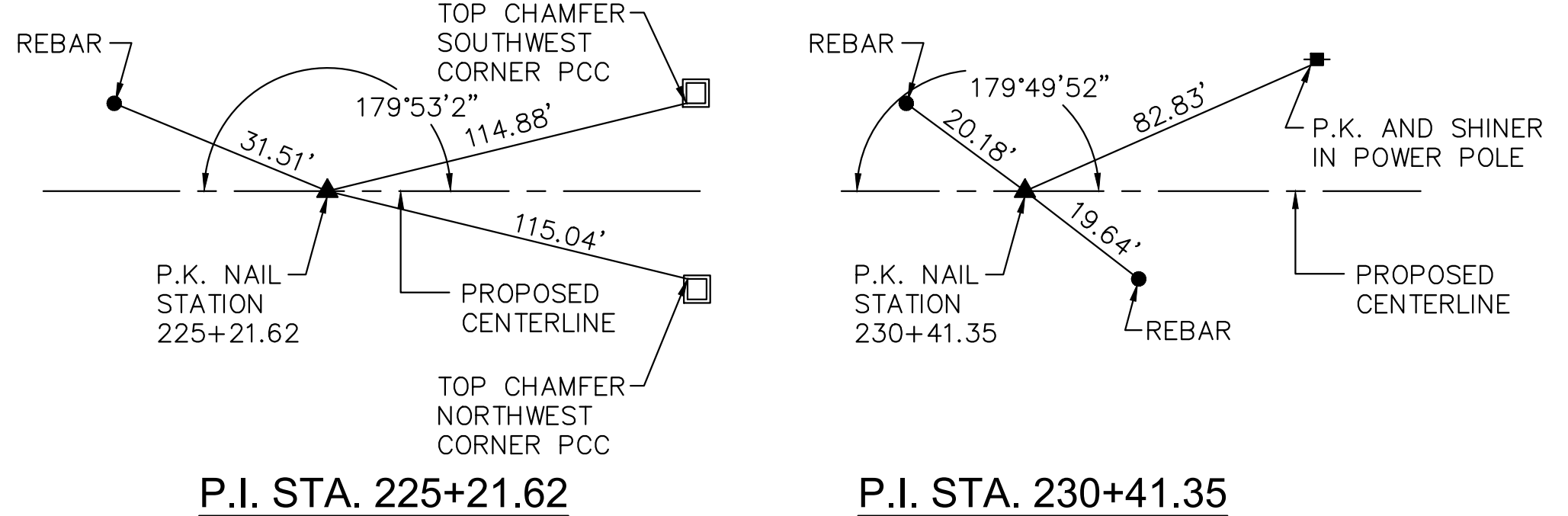
PERIMETER EROSION BARRIER

LT STA 222+50 TO 226+39 =	390 FT
RT STA 222+50 TO 226+52 =	405 FT
LT STA 227+22 TO 230+50 =	330 FT
RT STA 227+10 TO 230+50 =	340 FT
TOTAL =	1465 FT

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2	NITROGEN FERT NUT	PHOSPHORUS FERT NUT	POTASSIUM FERT NUT	MULCH METHOD 1
LT STA 222+79 TO 226+40	0.34	30.7	30.7	30.7	0.34
RT STA 222+79 TO 226+40	0.33	29.1	29.1	29.1	0.33
LT STA 227+25 TO 230+40	0.28	25.3	25.3	25.3	0.28
LT STA 227+25 TO 230+40	0.29	26.2	26.2	26.2	0.29
TOTAL =	1.25	115	115	115	1.25

- ☒ PROPOSED RIGHT OF WAY MARKER
- — — — EXISTING RIGHT OF WAY LINE
- — — — PROPOSED RIGHT OF WAY LINE
- - - - PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- ▨ PROPOSED STONE DUMPED RIPRAP
- + — — — — TEMPORARY DITCH CHECKS+
- □ — □ — PERIMETER EROSION BARRIER



CENTERLINE TIE POINTS



DESIGNED	— ECM/AAG	REVISED	—
DRAWN	— TAB	REVISED	—
CHECKED	— ECM/AAG	REVISED	—
DATE	— 10-05-20	REVISED	—

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	4
ILLINOIS			CONTRACT NO. 89759	

BENCH MARKS:

SE CORNER OF WEST ABUTMENT
SEAT ON EXISTING WEST ABUTMENT
ELEV. = 652.36

NW CORNER OF ABUTMENT SEAT ON
EXISTING EAST ABUTMENT
ELEV. = 652.48

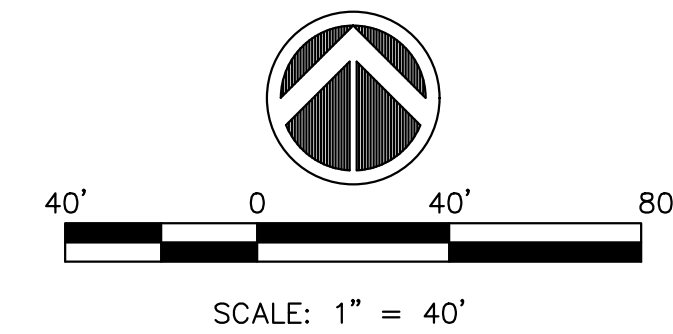
PROPOSED TRAFFIC BARRIER
TERMINALS TYPE 5A, 12.5' OF
S.P.B.G.R. TY A AND TYPE 1
(SPECIAL) TANGENT WITH SHOULDER
WIDENING PER STD. 630301 (EACH
CORNER OF NEW STRUCTURE)

PROPOSED TEMPORARY
CONSTRUCTION EASEMENT

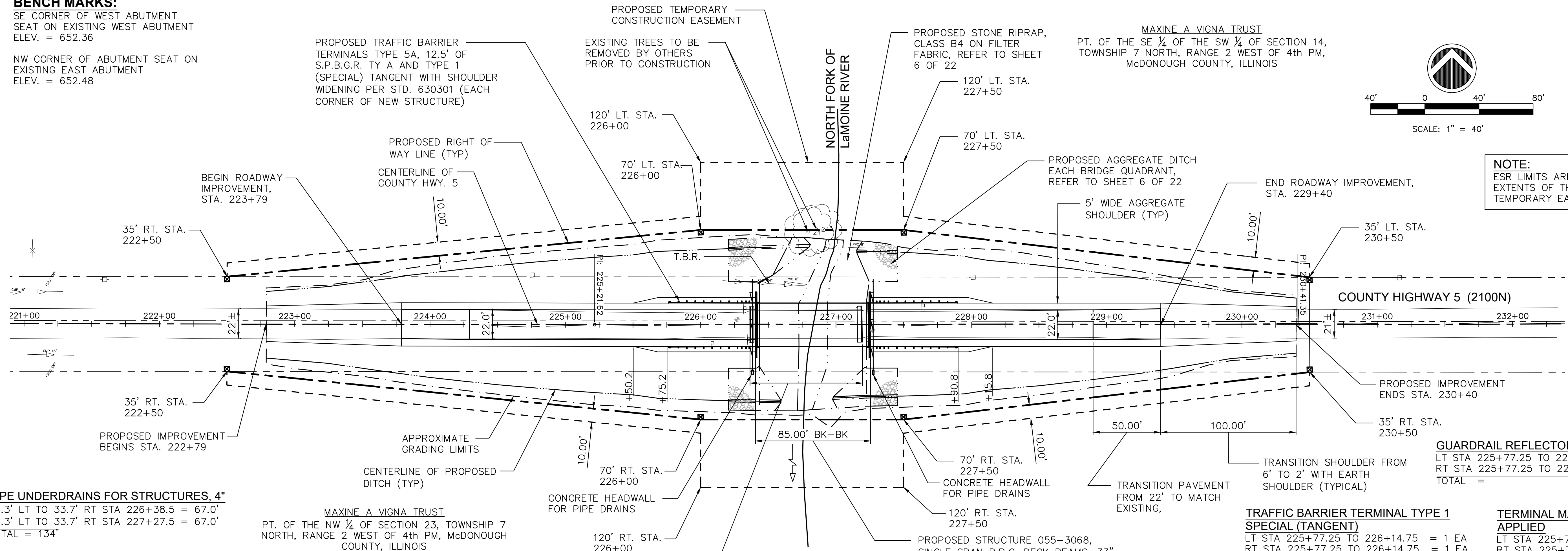
EXISTING TREES TO BE
REMOVED BY OTHERS
PRIOR TO CONSTRUCTION

PROPOSED STONE RIPRAP,
CLASS B4 ON FILTER
FABRIC, REFER TO SHEET
6 OF 22

MAXINE A VIGNA TRUST
PT. OF THE SE 1/4 OF THE SW 1/4 OF SECTION 14,
TOWNSHIP 7 NORTH, RANGE 2 WEST OF 4th PM,
McDONOUGH COUNTY, ILLINOIS



NOTE:
ESR LIMITS ARE TO THE
EXTENTS OF THE PROPOSED
TEMPORARY EASEMENTS



PIPE UNDERDRAINS FOR STRUCTURES, 4"

33.3' LT TO 33.7' RT STA 226+38.5 = 67.0'
33.3' LT TO 33.7' RT STA 227+27.5 = 67.0'
TOTAL = 134'

CONCRETE HEADWALL FOR PIPE DRAINS

33.7' RT STA 226+38.5 = 1 EA
33.7' RT STA 227+27.5 = 1 EA
TOTAL = 2 EACH

MAXINE A VIGNA TRUST
PT. OF THE NW 1/4 OF SECTION 23, TOWNSHIP 7
NORTH, RANGE 2 WEST OF 4th PM, McDonOUGH
COUNTY, ILLINOIS

EXISTING STRUCTURE No. 055-3019, ±80'
LONG PRATT RIVETED PONY TRUSS WITH 7"
CONCRETE DECK AND CONCRETE
ABUTMENTS TO BE REMOVED (SEE SPECIAL
PROVISIONS FOR REMOVAL OF EXISTING
STRUCTURES)

PROPOSED STRUCTURE 055-3068,
SINGLE SPAN P.P.C. DECK BEAMS, 33",
82'-0" BACK TO BACK OF CONCRETE
ABUTMENTS, 32'-0" OUT TO OUT OF
DECK WITH TYPE S-1 STEEL RAILING

GUARDRAIL REFLECTORS TYPE A
LT STA 225+77.25 TO 227+88.75 = 4 EA
RT STA 225+77.25 TO 227+88.75 = 4 EA
TOTAL = 8 EACH

**TRAFFIC BARRIER TERMINAL TYPE 1
SPECIAL (TANGENT)**

LT STA 225+77.25 TO 226+14.75 = 1 EA
RT STA 225+77.25 TO 226+14.75 = 1 EA
LT STA 227+51.25 TO 227+88.75 = 1 EA
RT STA 227+51.25 TO 227+88.75 = 1 EA
TOTAL = 4 EACH

**TERMINAL MARKERS DIRECT
APPLIED**

LT STA 225+77.25 = 1 EA
RT STA 225+77.25 = 1 EA
LT STA 227+88.75 = 1 EA
RT STA 227+88.75 = 1 EA
TOTAL = 4 EACH

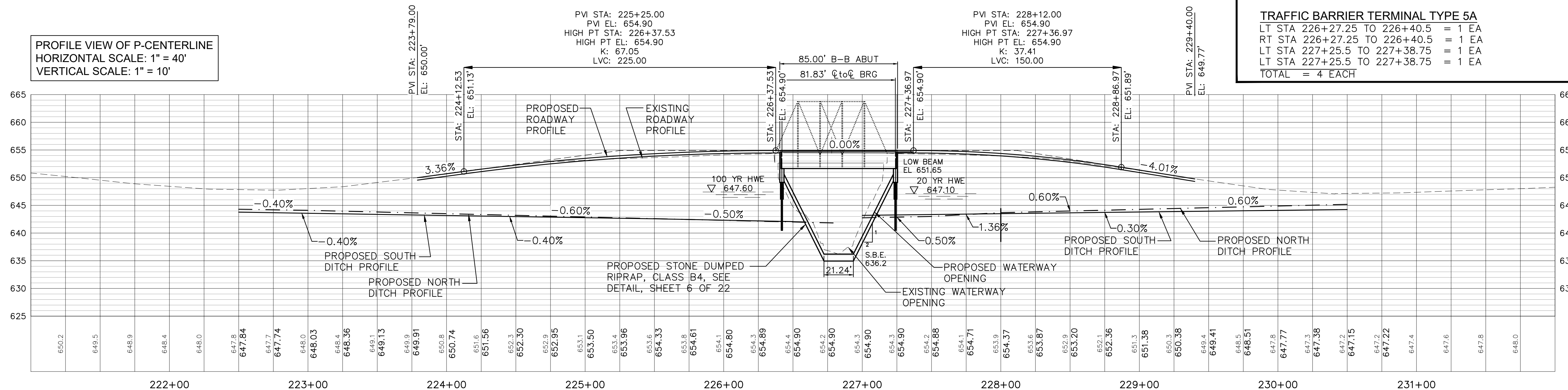
STEEL PLATE BEAM GUARDRAIL, TYPE A

LT STA 216+14.75 TO 226+27.25 = 12.5'
RT STA 216+14.75 TO 226+27.25 = 12.5'
LT STA 223+38.75 TO 227+51.25 = 12.5'
RT STA 223+38.75 TO 227+51.25 = 12.5'
TOTAL = 50.0 FT

TRAFFIC BARRIER TERMINAL TYPE 5A

LT STA 226+27.25 TO 226+40.5 = 1 EA
RT STA 226+27.25 TO 226+40.5 = 1 EA
LT STA 227+25.5 TO 227+38.75 = 1 EA
RT STA 227+25.5 TO 227+38.75 = 1 EA
TOTAL = 4 EACH

PROFILE VIEW OF P-CENTERLINE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'



FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
IL DESIGN FIRM NO. 184-000843



DESIGNED - ECM/AAG
DRAWN - TAB
CHECKED - ECM/AAG
DATE - 10-05-20

REVISED - -
REVISED - -
REVISED - -
REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	5
ILLINOIS			CONTRACT NO. 89759	

EXISTING STRUCTURE No. 055-3019, ±80' LONG PRATT RIVETED PONY TRUSS WITH 7" CONCRETE DECK AND CONCRETE ABUTMENTS TO BE REMOVED, NO SALVAGE. SHALL BECOME THE PROPERTY OF THE CONTRACTOR. (SEE SPECIAL PROVISIONS)

PVI STA: 225+25.00
 PVI EL: 654.90
 HIGH PT STA: 226+37.53
 HIGH PT EL: 654.90
 K: 67.05
 LVC: 225.00

PVI STA: 228+12.00
 PVI EL: 654.90
 HIGH PT STA: 227+36.97
 HIGH PT EL: 654.90
 K: 37.41
 LVC: 150.00

PROPOSED TRAFFIC BARRIER TERMINAL TYPE 5A, 12.5' OF S.P.B.G.R. TY A & TYPE 1 (SPECIAL) TANGENT, EACH QUADRANT

DESIGN STRESSES

Field Units
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

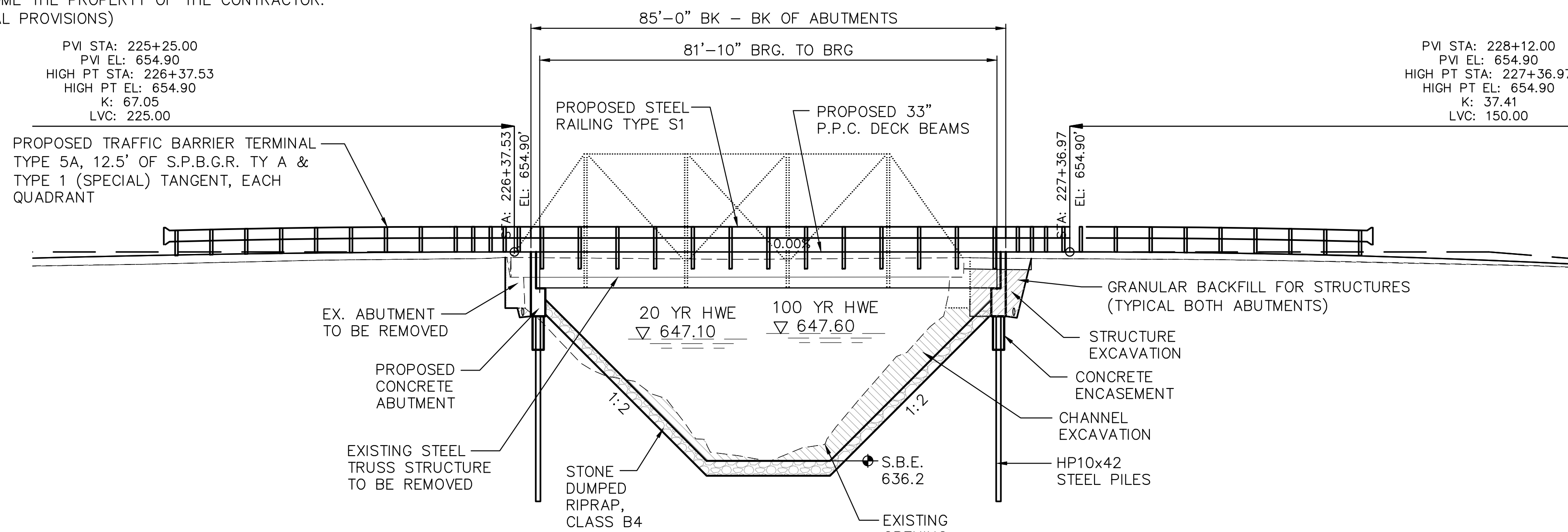
Precast Units
 $f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " dia. strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " dia. strands)

DESIGN SPECIFICATIONS

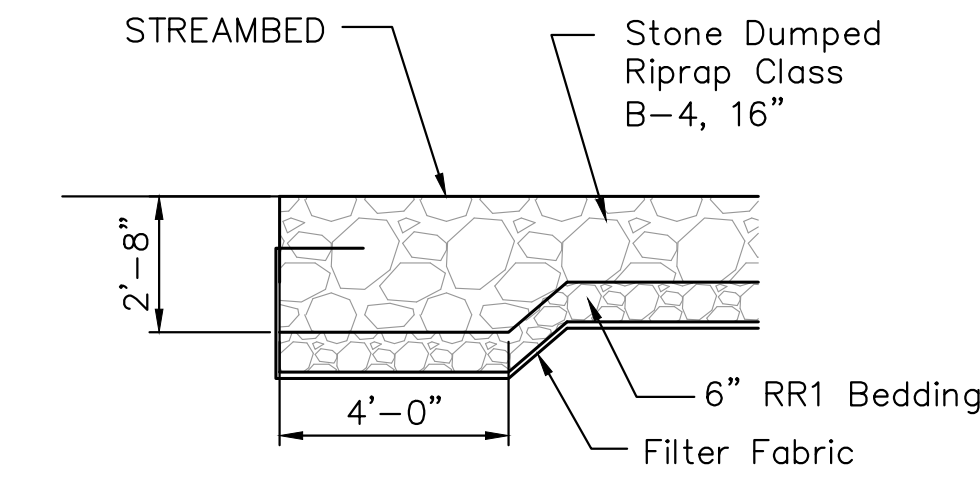
2012 AASHTO LRFD
 Bridge Design Specification

LOADING HL-93

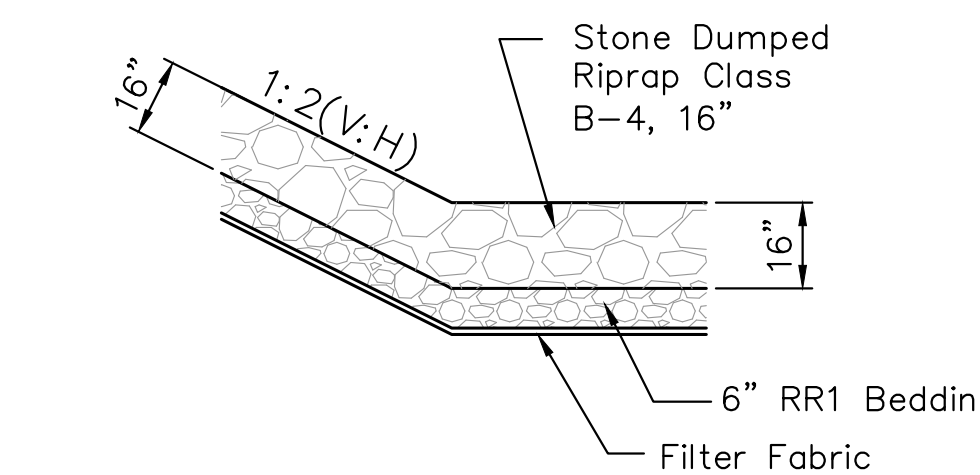
Allow 50#/sq.ft. for future wearing surface.



ELEVATION



RIPRAP SECTION A



RIPRAP PLACEMENT DETAIL

COUNTY HIGHWAY 5 OVER NORTH FORK OF LAMOINE RIVER
 STATION 226+85.0
 SEC 18-00300-00-BR
 BUILT 20__
 McDONOUGH COUNTY
 LOADING HL-93
 STR. NO. 055-3068

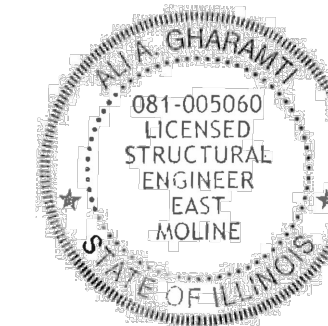
LETTERING FOR NAME PLATE

Locate name plate at the Southwest corner of bridge (See Std. 515001)

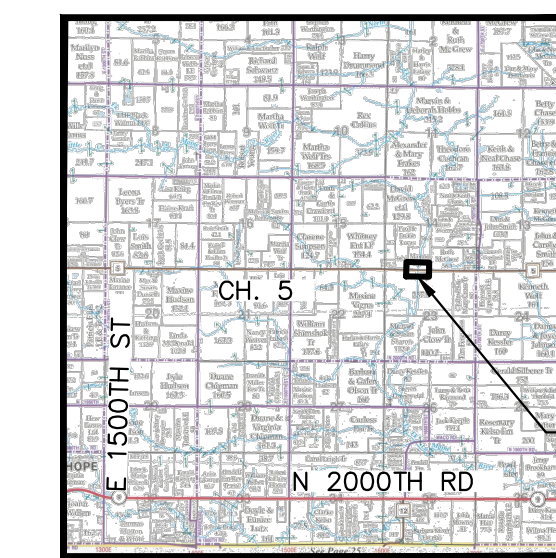
I certify that to the best of my knowledge, information and belief this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the 2012 AASHTO LRFD Bridge Design Specifications.

Ali A. Gharanti
 Ali A. Gharanti, P.E., S.E.
 License expires 11-30-2020

7/13/20
 Date



NO SCALE



LOCATION SKETCH

PROPOSED BRIDGE
 SEC. 18-00300-00-BR

**COUNTY HWY. 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR
 McDONOUGH COUNTY
 STATION 226+85.0**

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 ILL DESIGN FIRM NO. 184-000843



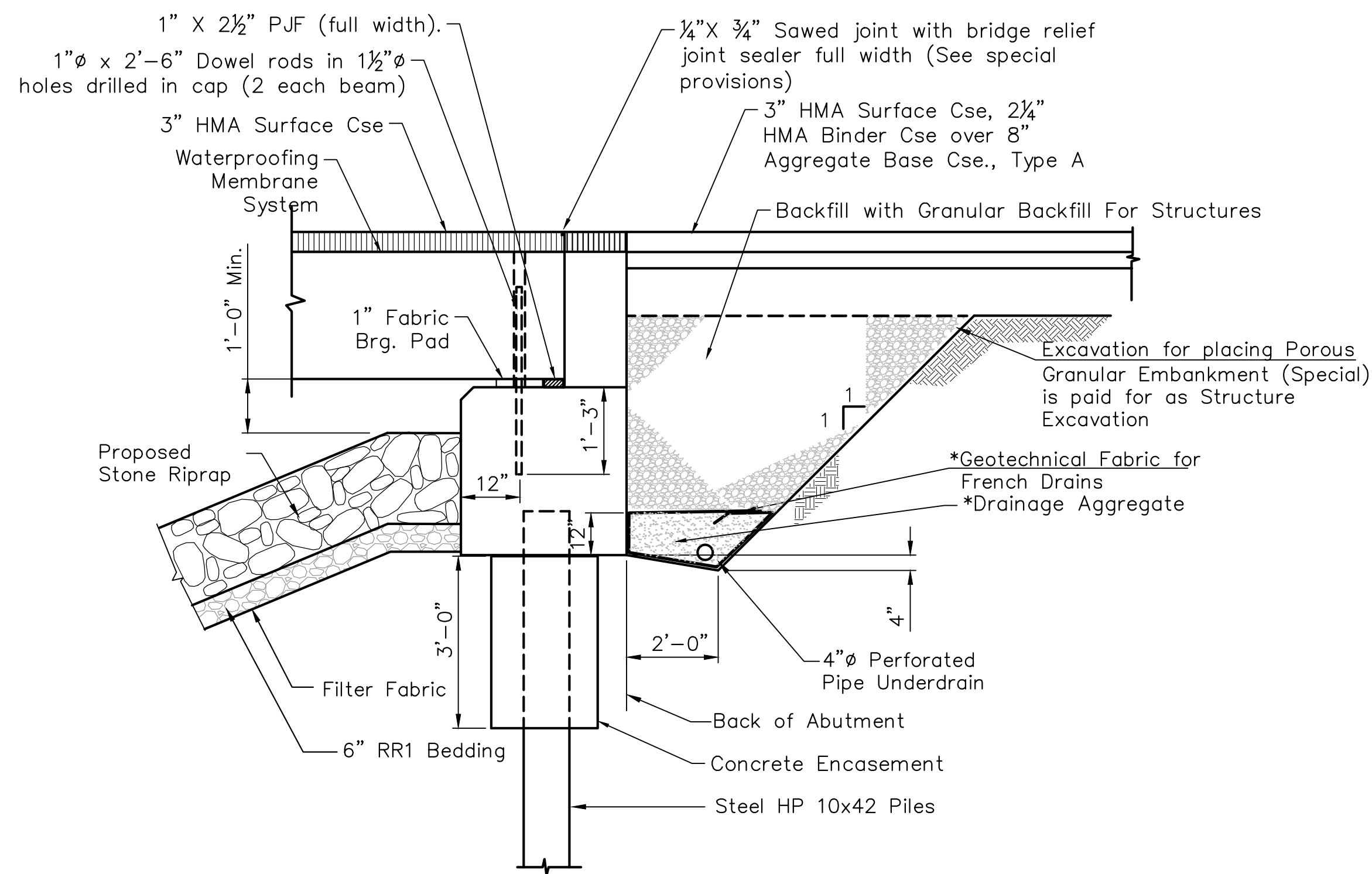
DESIGNED - ECM/AAG
 DRAWN - TAB
 CHECKED - ECM/AAG
 DATE - 10-05-20

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR**

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	6
ILLINOIS			CONTRACT NO. 89759	



SECTION THRU ABUTMENT

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101-01)

*Included in the cost of Pipe Underdrains for Structures.

WATERWAY INFORMATION

DRAINAGE AREA = 31.3 SQ. MI.		EXISTING OVERTOPPING ELEV. =647.2 @ STA. 230+50 PROPOSED OVERTOPPING ELEV. =647.2 @ STA. 230+50							
FLOOD EVENT	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		NAT H.W.E.	HEAD - FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
	10	3430	-	-	646.8	1.2	0.7	648.0	647.5
DESIGN	20	4260	410	470	647.1	2.0	1.5	649.1	648.6
BASE	100	6240	450	502	647.6	2.3	2.3	649.9	649.9
OVERTOP EX.	20	4260	-	-	647.2	-	-	-	-
OVERTOP PROP.	20	4260	-	-	647.2	-	-	-	-
MAX. CALC.	500	8350	473	536	648.1	2.3	2.3	650.4	650.4

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
			Abuts.	
Channel Excavation	Cu. Yd.			612
Stone Riprap, Class B-4	Sq. Yd.			1185
Filter Fabric	Sq. Yd.			1185
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		62	62
Concrete Structures	Cu. Yd.		17.0	17.0
Concrete Encasement	Cu. Yd.		4.2	4.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2656		2656
Reinforcement Bars, Epoxy Coated	Pound		4060	4060
Steel Railing, Type S-1	Foot	170		170
Furnishing Steel Piles, HP 10x42	Foot		630	630
Driving Piles	Foot		630	630
Test Pile, Steel HP 10x42	Each		1	1
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Granular Backfill For Structures	Cu. Yd.		42	42
Pipe Underdrains for Structures, 4"	Foot		134	134
Portland Cement Mortar Fairing Course	Foot	581		581
Waterproofing Membrane System	Sq. Yds.	295		295

GENERAL NOTES

- THE CONTRACTOR SHALL DRIVE ONE (1) TEST PILE TO 110% OF THE NOMINAL REQUIRED BEARING SPECIFIED IN PRODUCTION LOCATIONS AT THE SUBSTRUCTURE SPECIFIED OR APPROVED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.
- FOR SOIL BORING LOGS, SEE SHEETS 13 AND 14.
- ALL PILING CUTOFFS SHALL BECOME THE PROPERTY OF McDONOUGH COUNTY AND SHALL BE CAREFULLY STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- A CORROSION INHIBITOR SHALL BE USED IN THE CONCRETE FOR PRECAST PRESTRESSED CONCRETE DECK BEAMS ACCORDING TO ARTICLE 1020.05(b)(12) OF THE STANDARD SPECIFICATIONS.
- THE TOP SURFACE OF THE BEAMS SHALL BE FINISHED ACCORDING TO THE IDOT MANUAL FOR FABRICATION OF PRECAST PRESTRESSED CONCRETE PRODUCTS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, GRADE 60. ALL REINFORCEMENT BARS IN THE ABUTMENT CAPS ARE TO BE EPOXY COATED.
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- LAYOUT OF THE SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS, AS DIRECTED BY THE ENGINEER.
- EXCAVATION BEHIND EXISTING ABUTMENT WALLS SHALL BE DONE BEFORE REMOVING THE EXISTING SUPERSTRUCTURE.
- THE EXISTING STRUCTURAL STEEL COATING MAY CONTAIN LEAD. THE CONTACTOR SHOULD TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- ANY EXISTING FIELD TILES LOCATED WITHIN THE PROJECT LIMITS ARE TO BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD AT HIS EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR WILL BE ALLOWED TO CLOSE THE ROAD TO THROUGH TRAFFIC DURING THE CONSTRUCTION OF THE PROJECT IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL NOTIFY THE COUNTY HIGHWAY DEPARTMENT 2 WEEKS PRIOR TO CLOSURE.

COUNTY HWY. 5 OVER NORTH FORK OF LAMOINE RIVER SECTION 18-00300-00-BR McDONOUGH COUNTY STATION 226+85.0

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 IL DESIGN FIRM NO. 184-000843



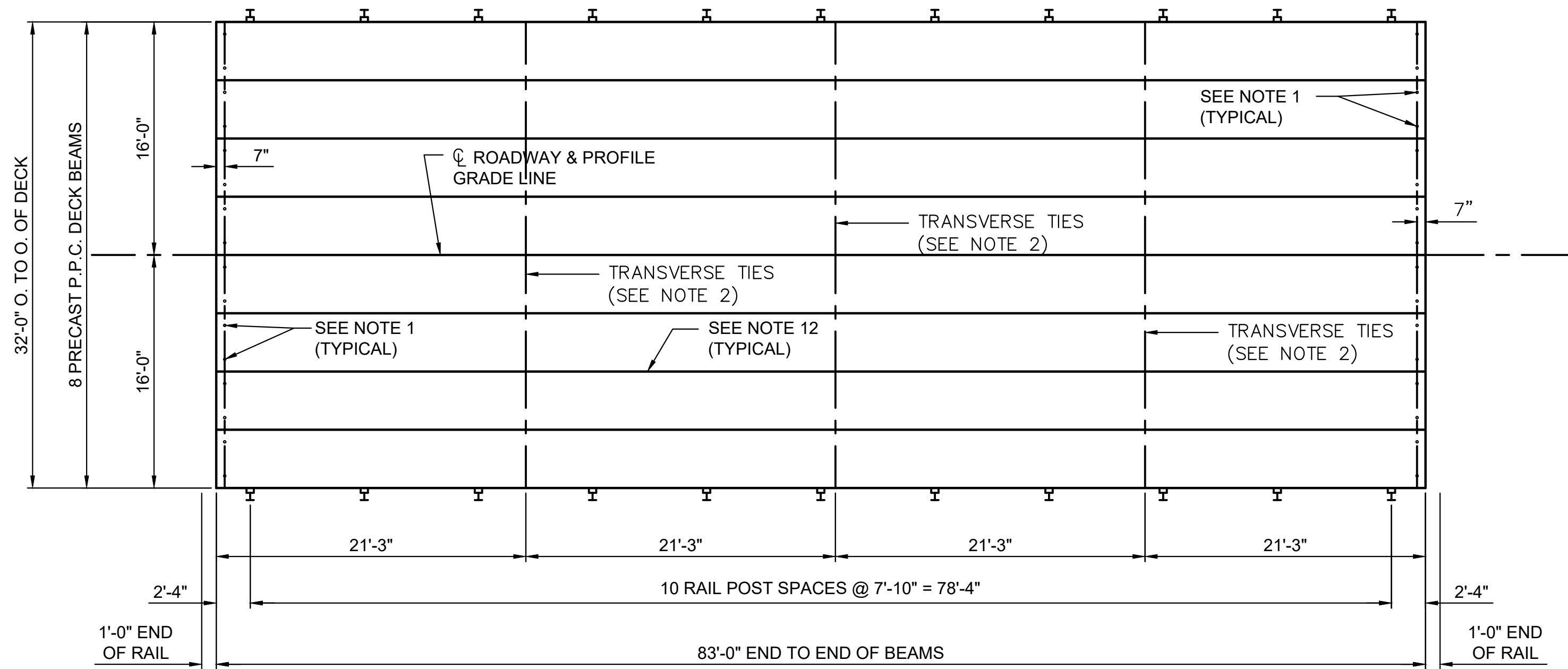
DESIGNED - ECM/AAG
 DRAWN - TAB
 CHECKED - ECM/AAG
 DATE - 10-05-20

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

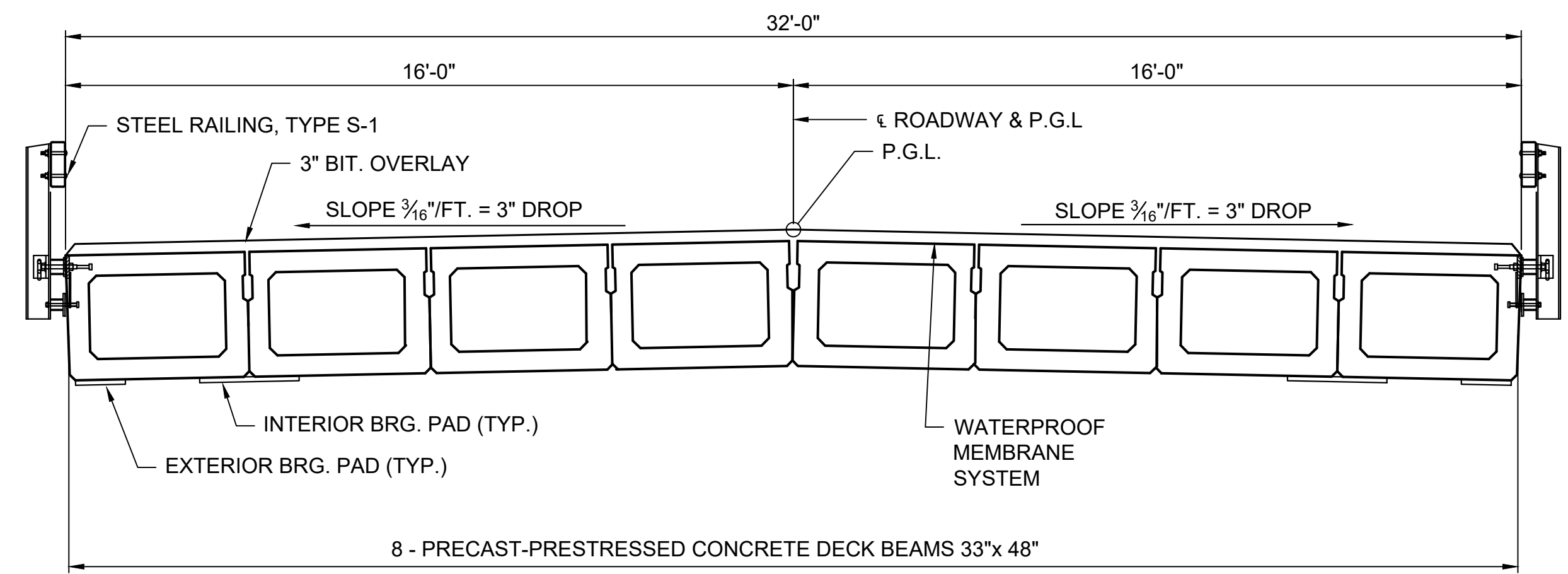
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL INFORMATION
COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER SECTION 18-00300-00-BR

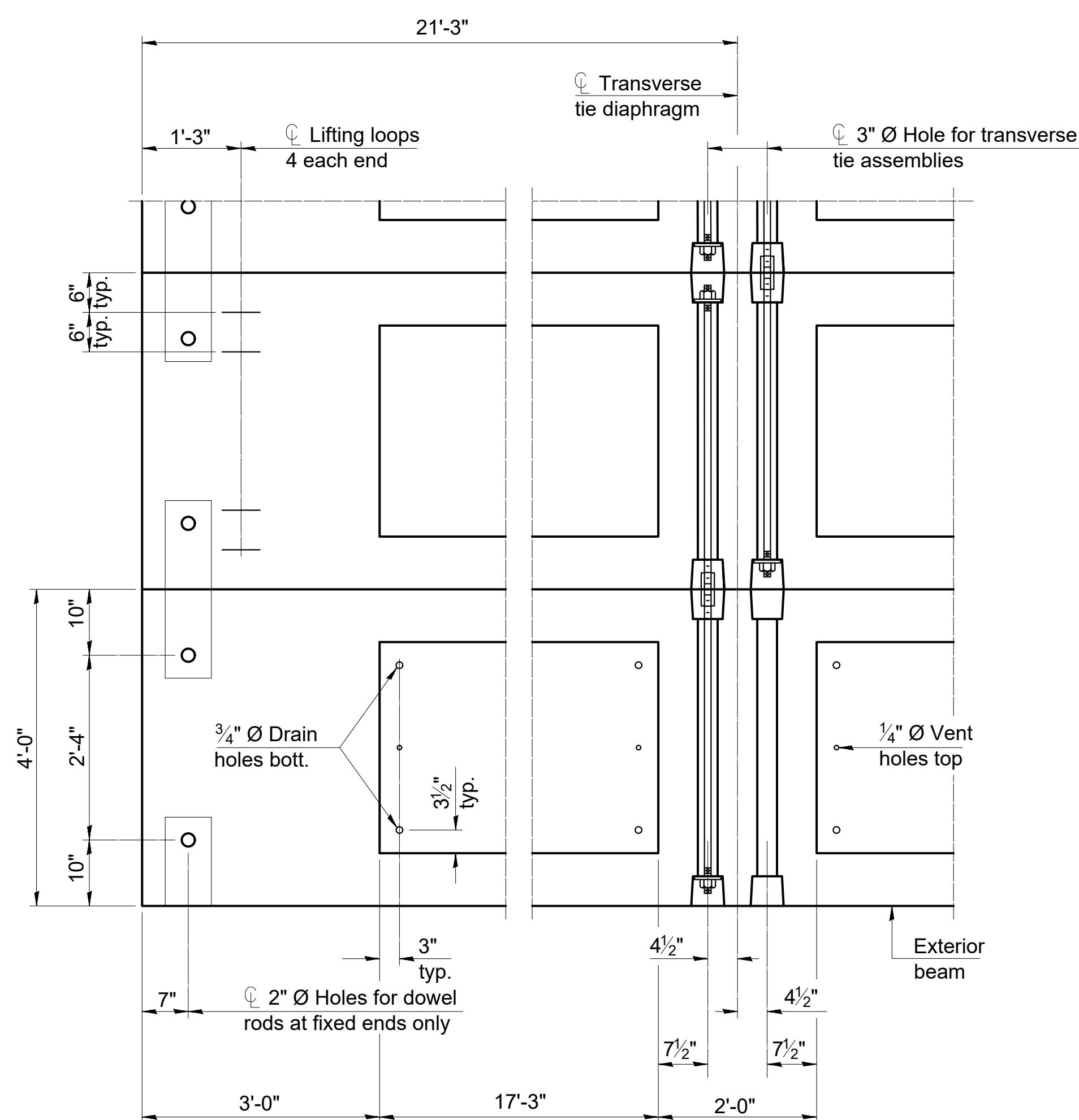
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	7
CONTRACT NO. 89759				
ILLINOIS				



PLAN

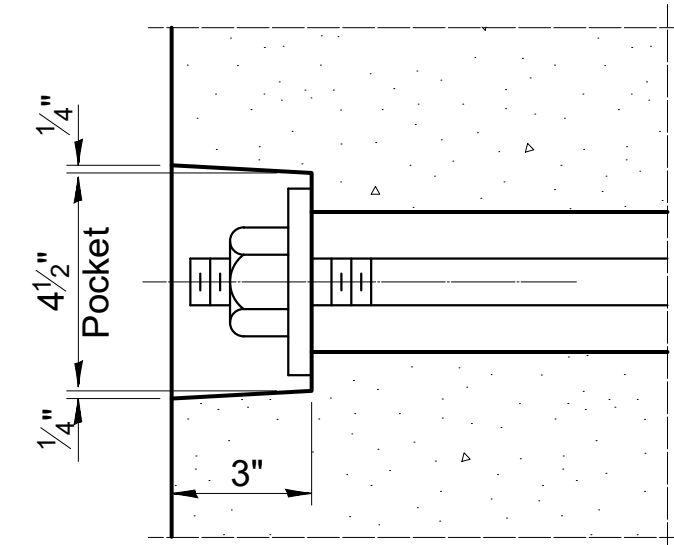


PROPOSED TYPICAL BRIDGE SECTION

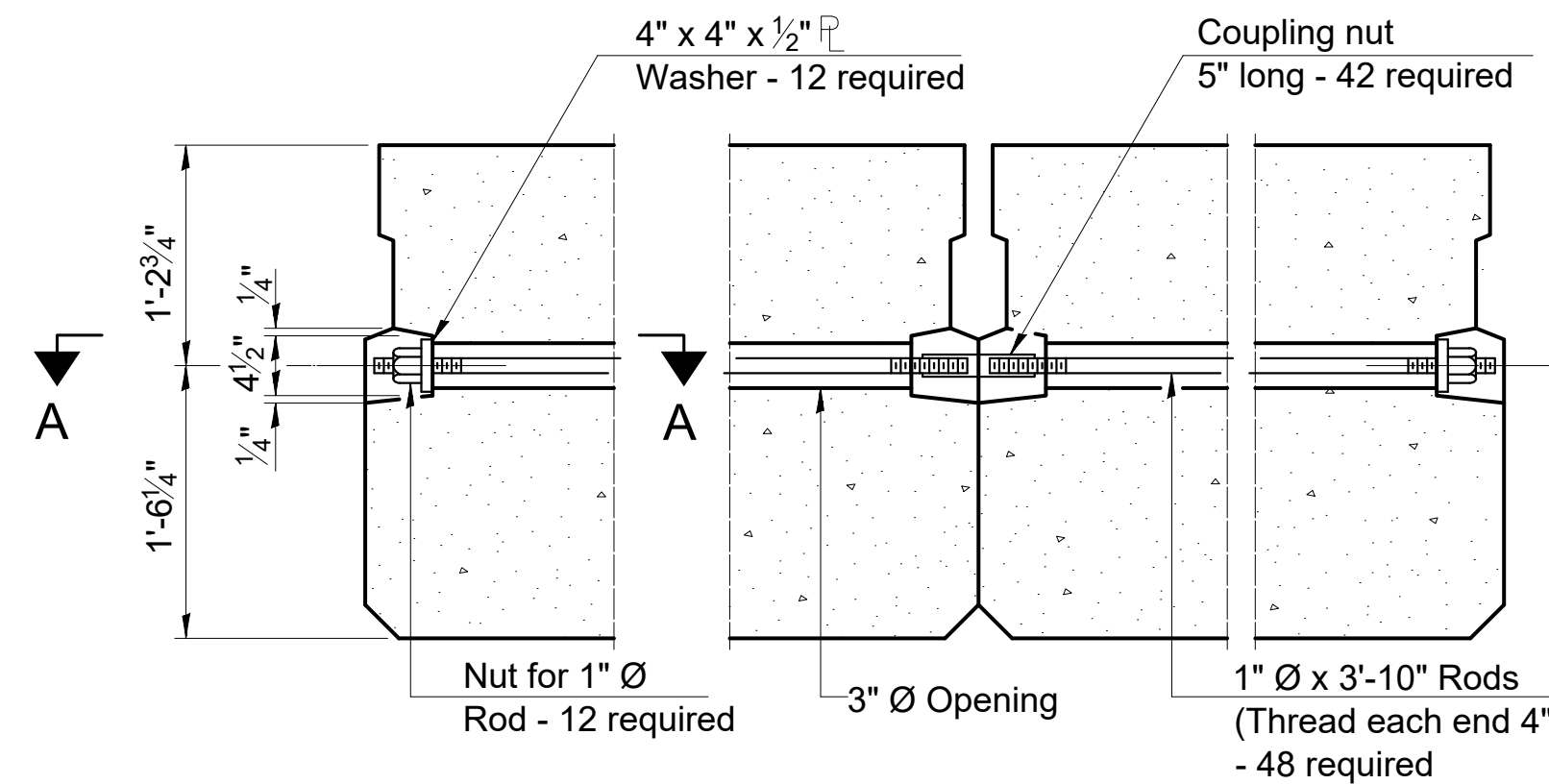


PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



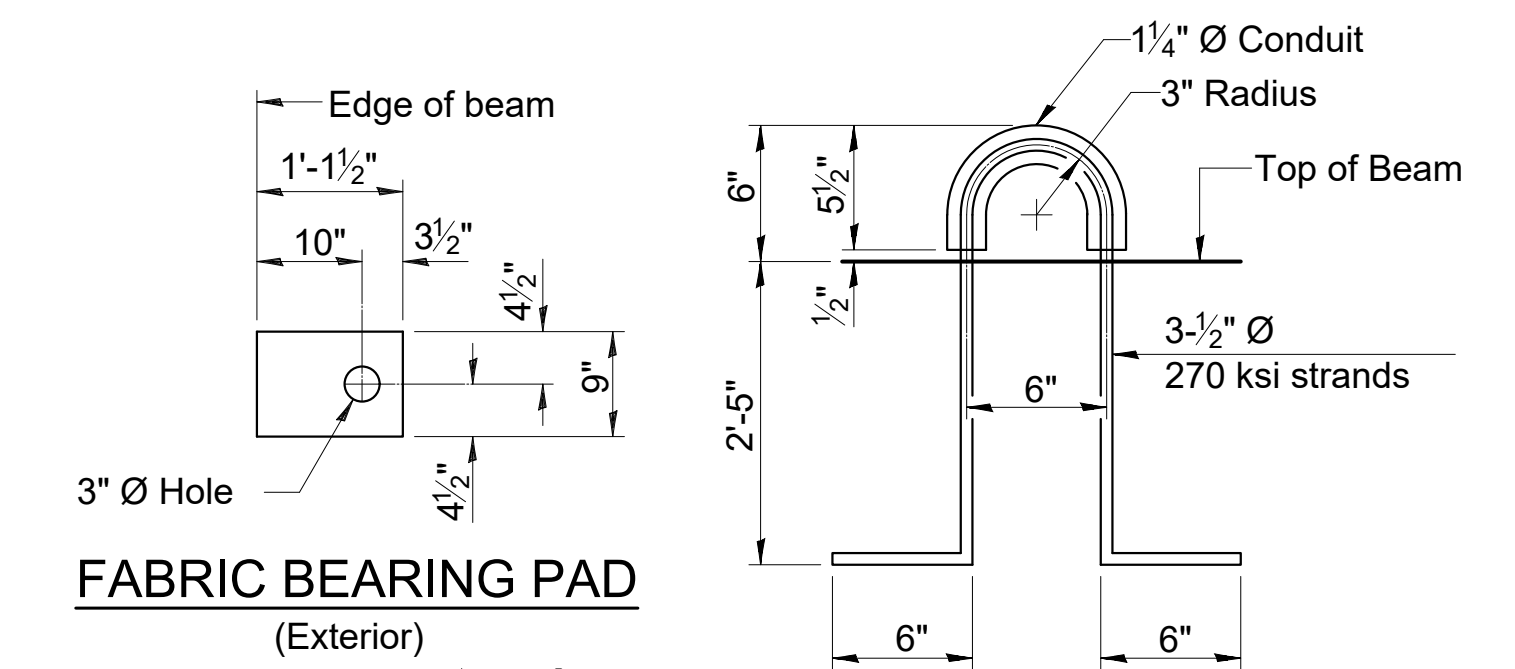
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

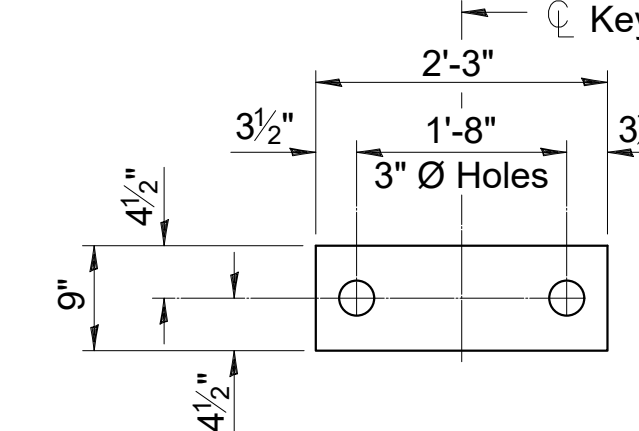
NOTES

1. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum 24 hrs prior to grouting the shear keys.
2. The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set.
3. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
4. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
5. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
6. The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
7. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
8. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
9. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
10. Compressive strength of prestressed concrete, f_c, shall be 6000 psi.
11. Compressive strength of prestressed concrete at release, f_{ci}, shall be 5000 psi.
12. Longitudinal keys shall be grouted.



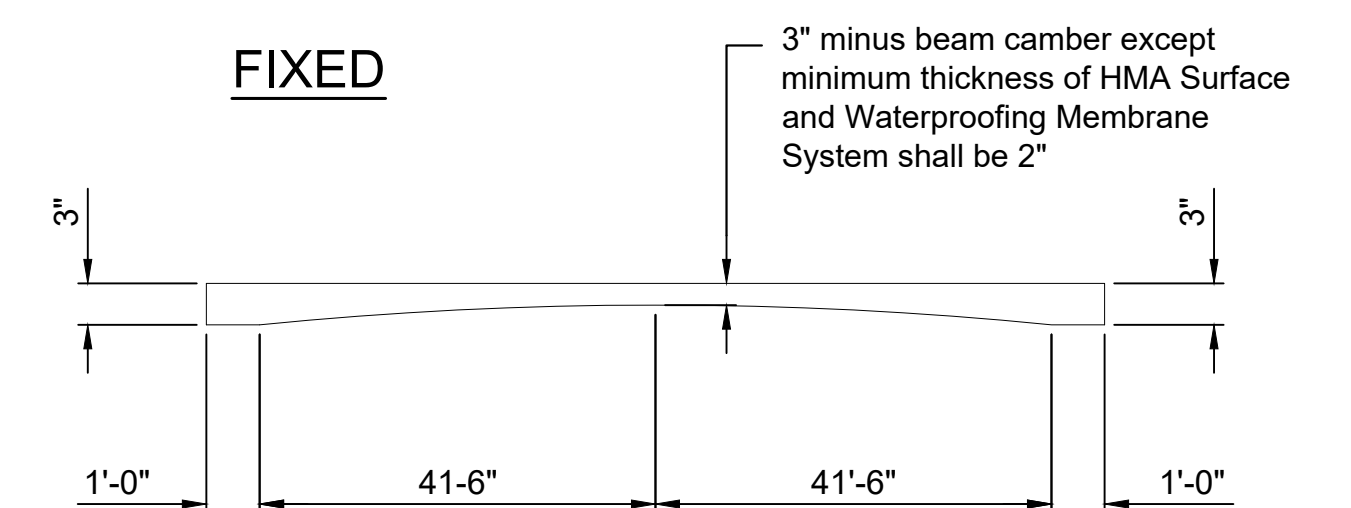
LIFTING LOOP DETAIL

Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



FABRIC BEARING PAD (Interior)

FIXED

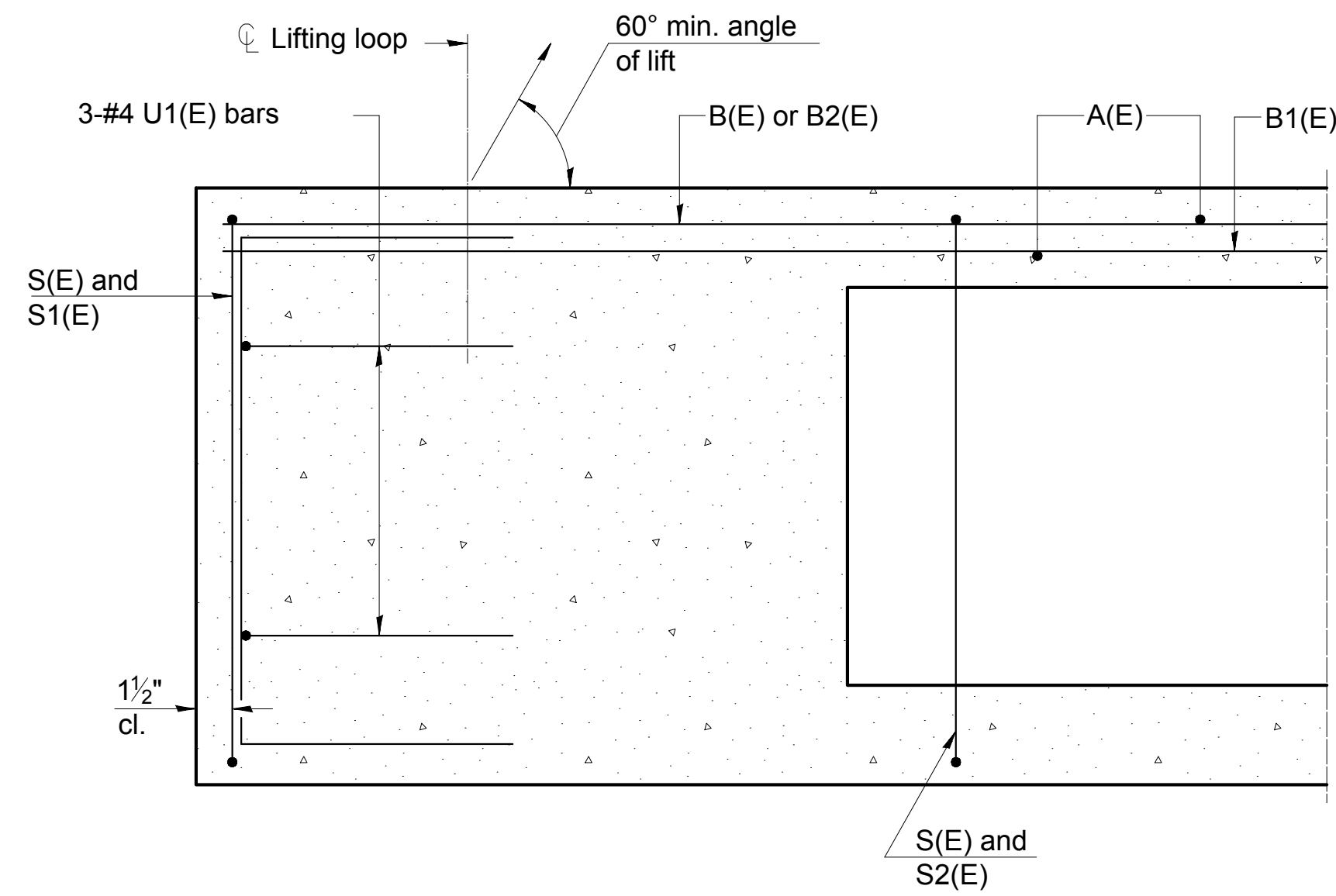


HOT-MIX ASPHALT WEARING SURFACE (HMA) PROFILE

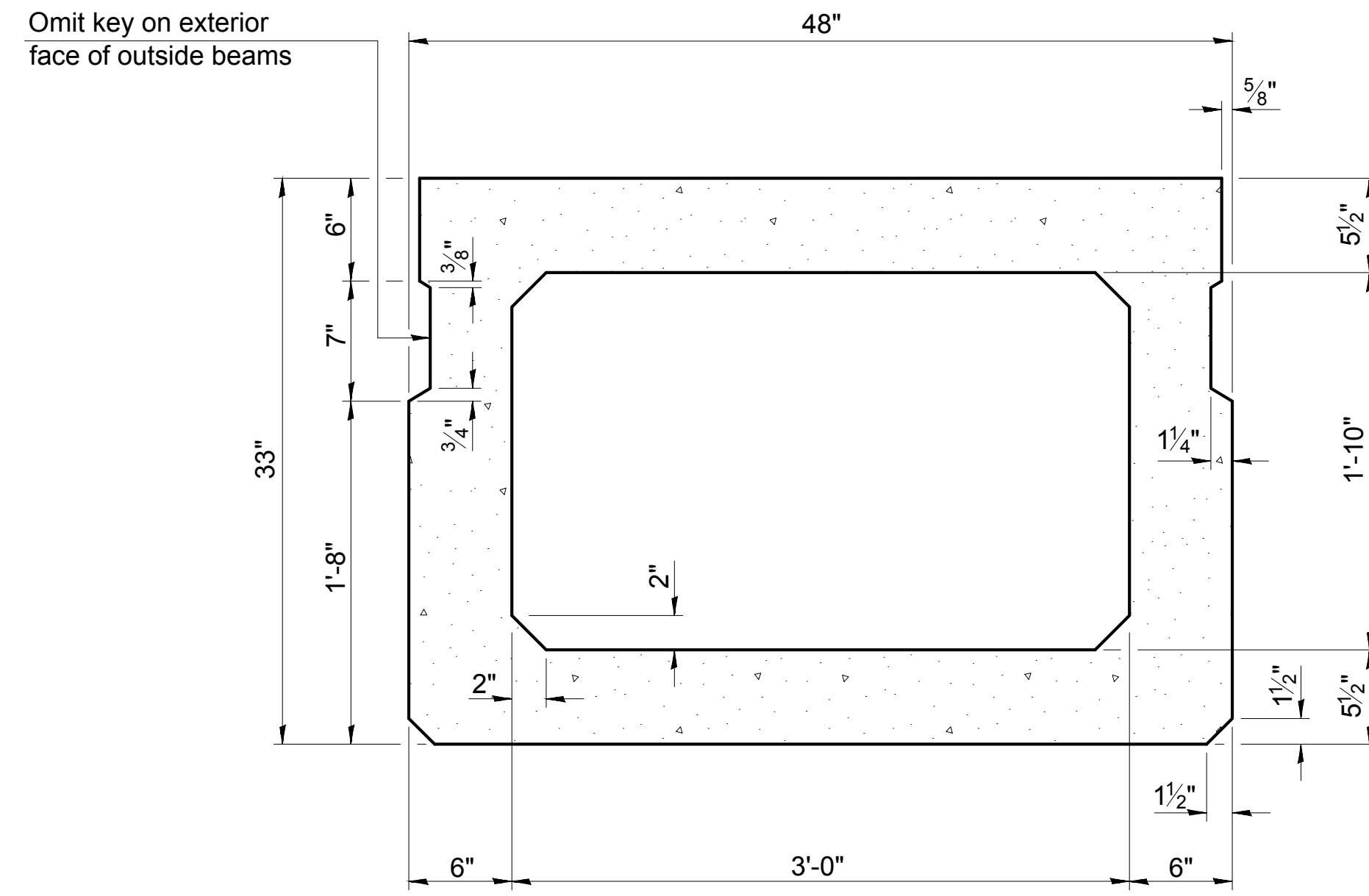
BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	2656
---	---------	------

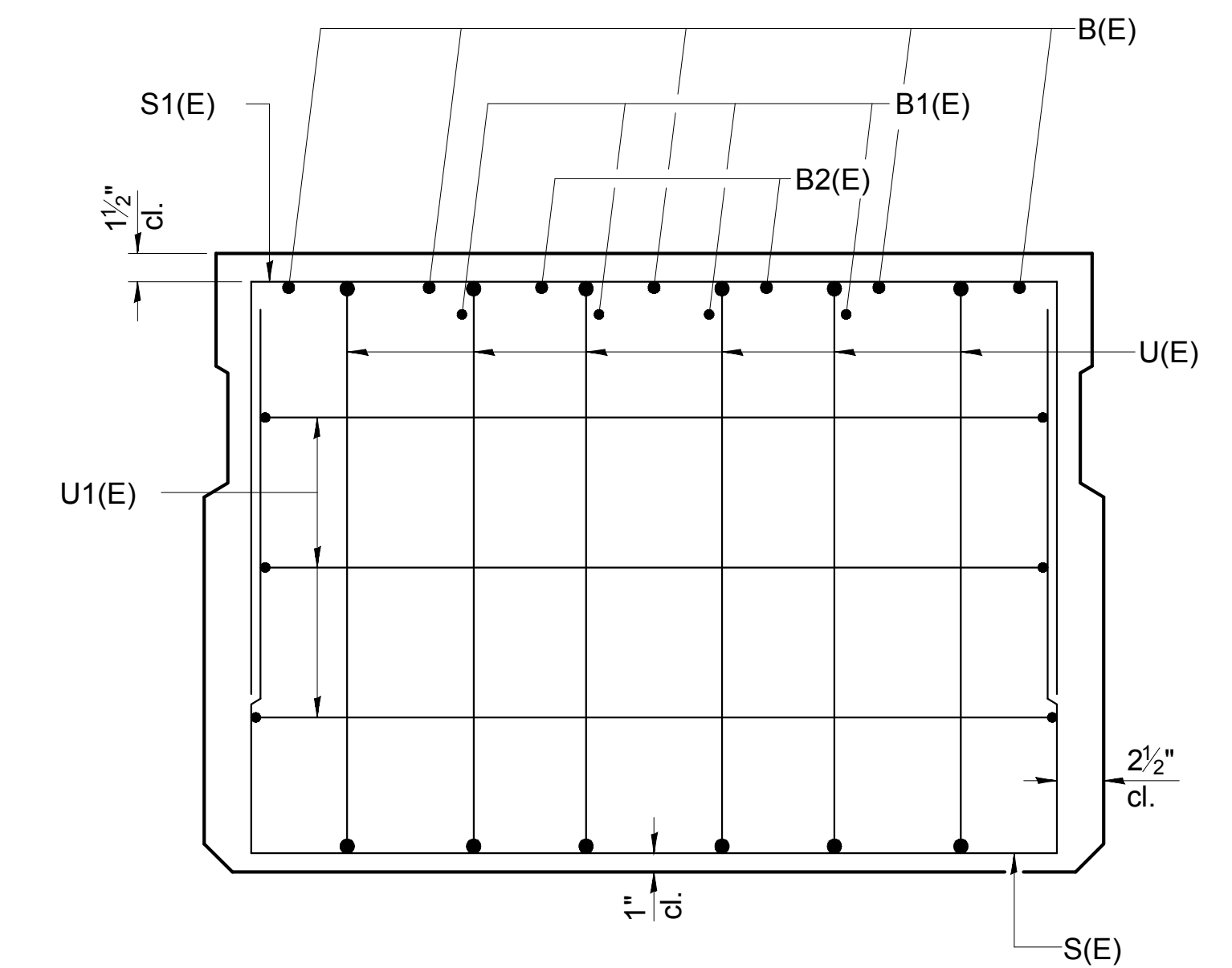
COUNTY HWY. 5 OVER NORTH FORK OF LAMOINE RIVER
SECTION 18-00300-00-BR
McDONOUGH COUNTY
STATION 226+85.0



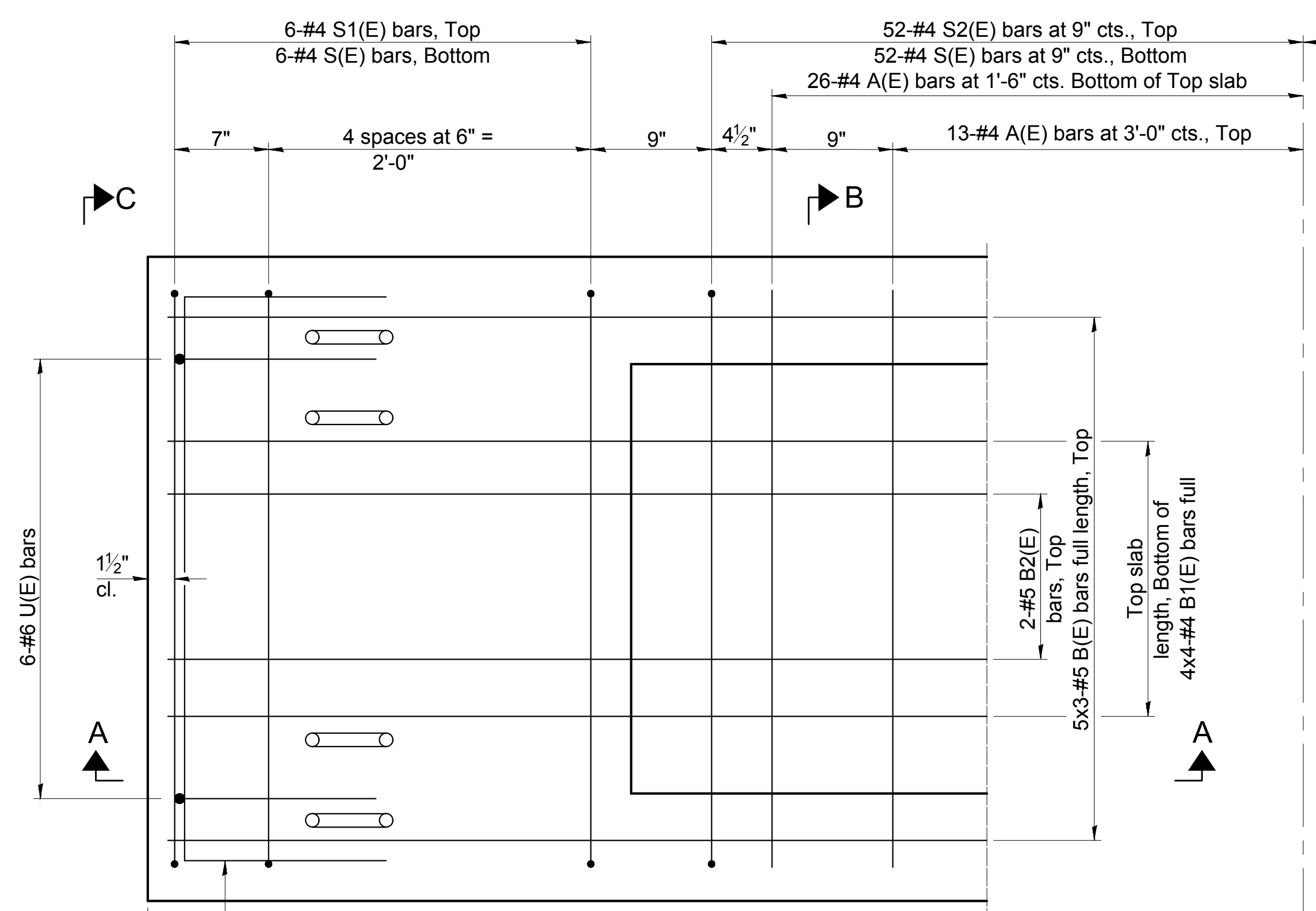
SECTION A-A



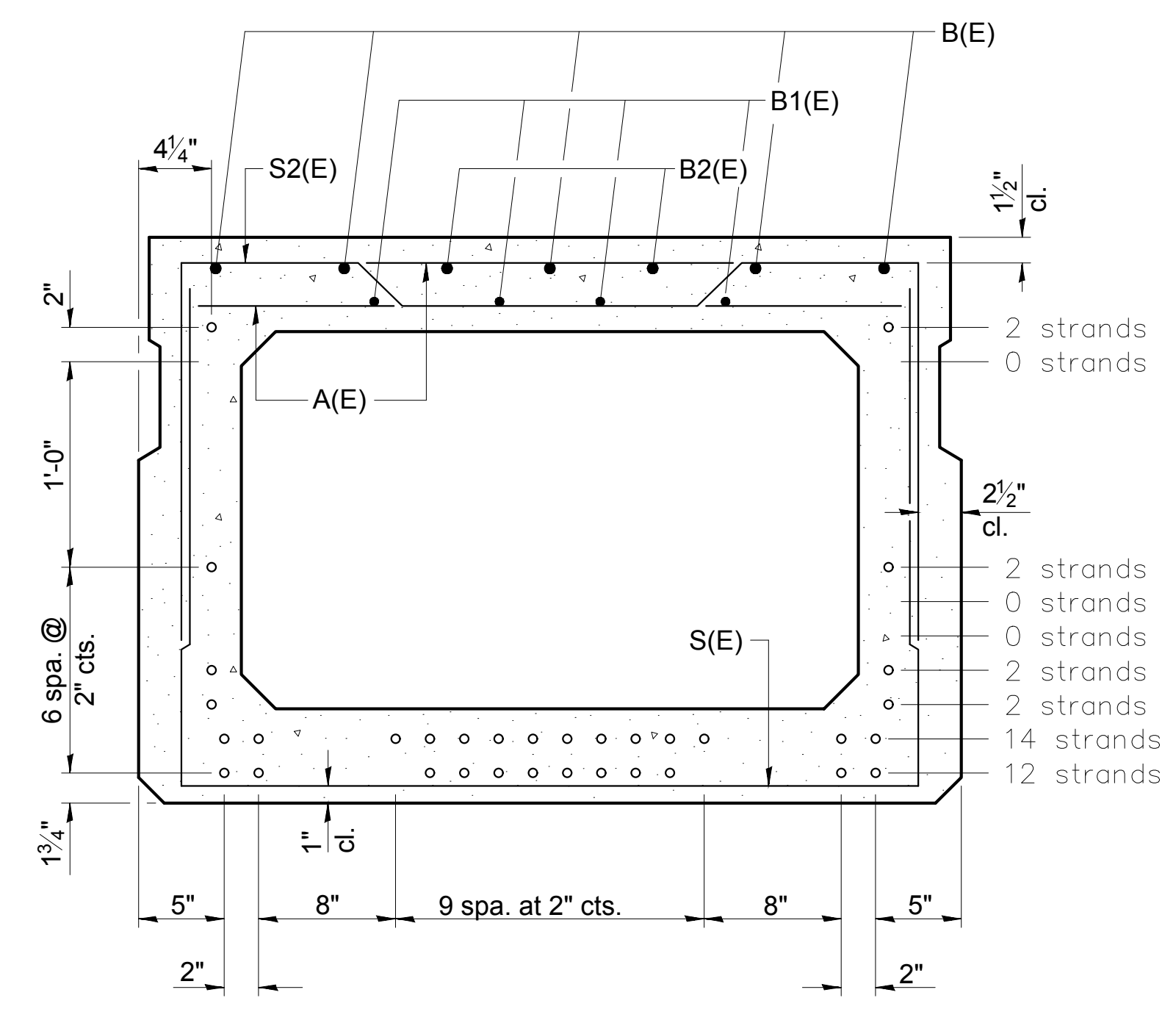
SECTION B-B
(Showing dimensions)



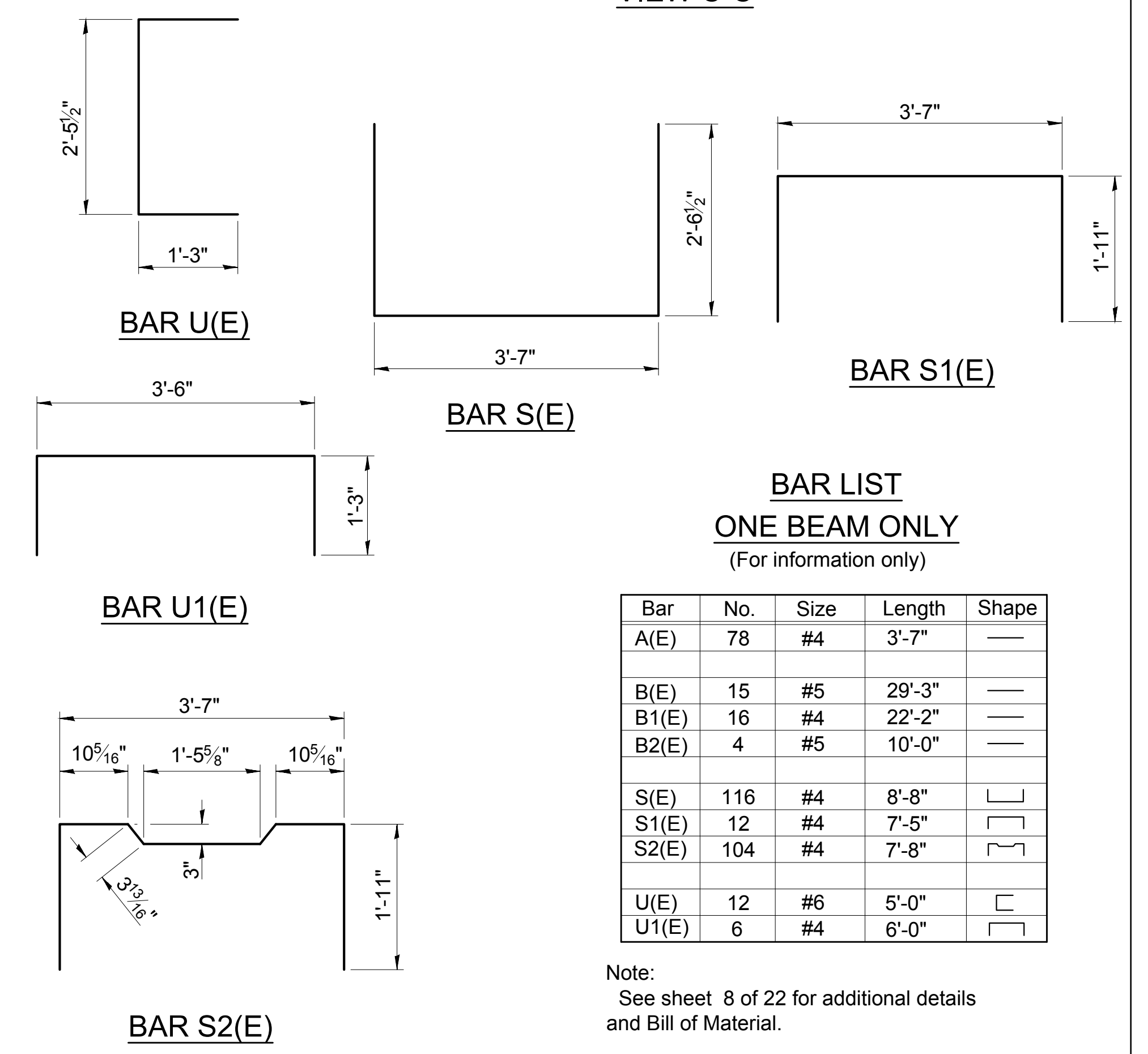
VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)



BAR LIST
ONE BEAM ONLY
(For information only)

Note:
See sheet 8 of 22 for additional details and Bill of Material.

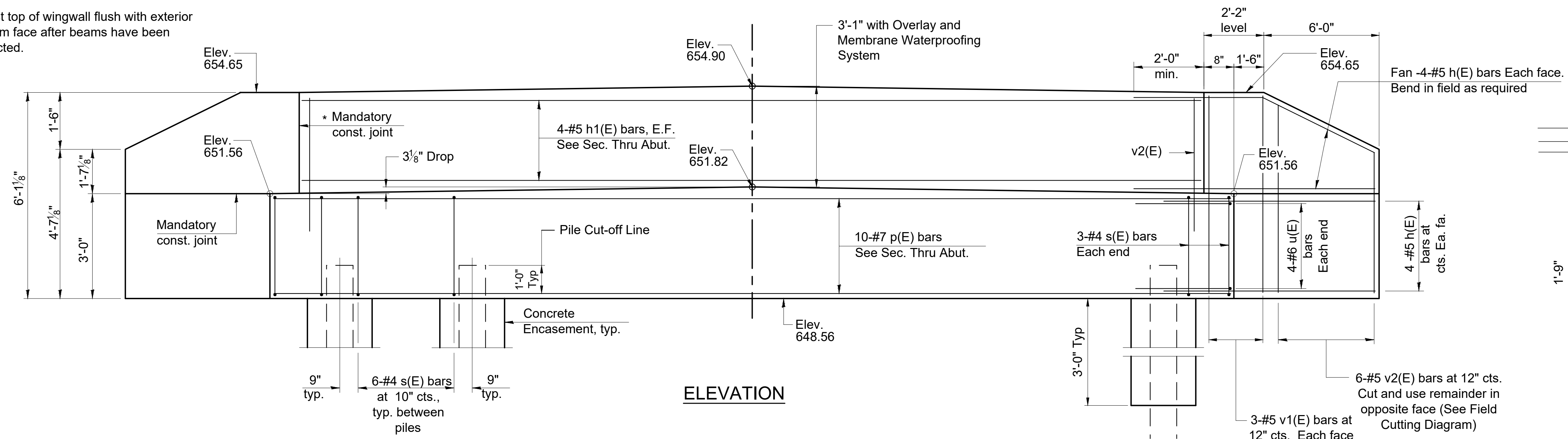
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

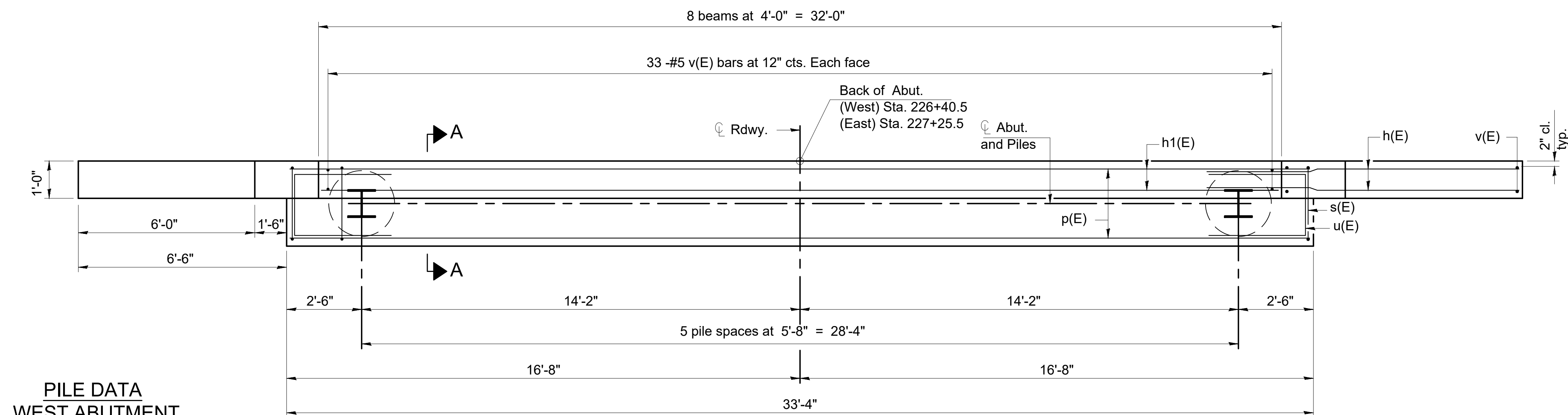
MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

COUNTY HWY. 5 OVER NORTH FORK OF LAMOINE RIVER
SECTION 18-00300-00-BR
McDONOUGH COUNTY
STATION 226+85.0

* Cast top of wingwall flush with exterior beam face after beams have been erected.



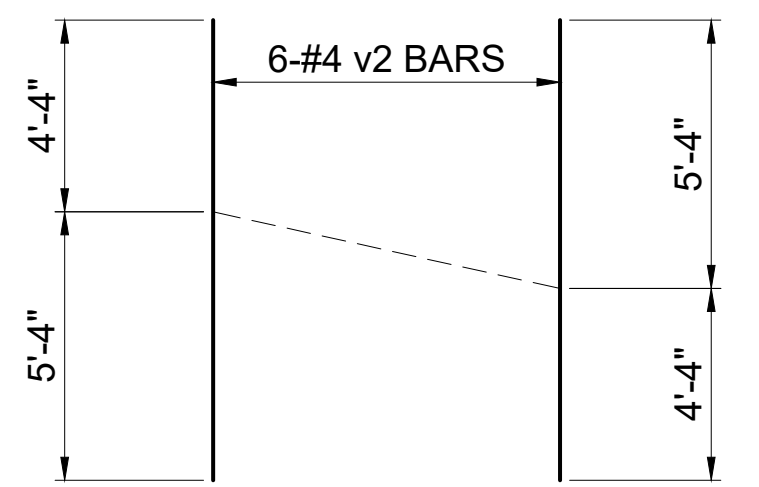
ELEVATION



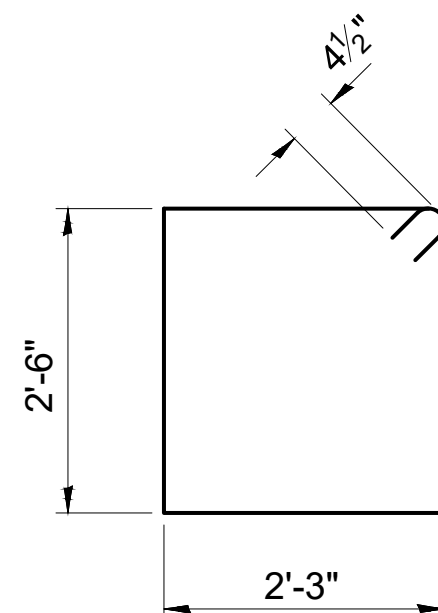
PLAN

PILE DATA WEST ABUTMENT
 Type: STEEL - HP10X42
 Nominal Required Bearing: 335K
 Factored Resistance Available: 111K
 Est. Length: 55 FT.
 No. Production Piles: 6
 No. Test Piles: NONE
 No. Pile Shoes: 6

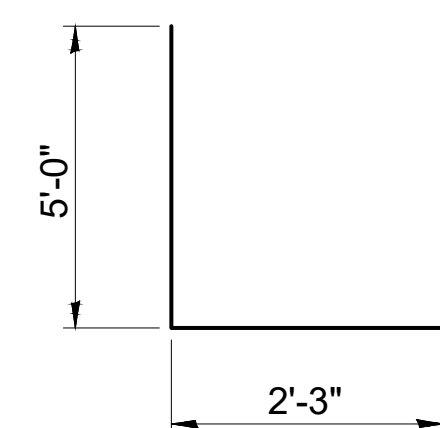
PILE DATA EAST ABUTMENT
 Type: STEEL - HP10X42
 Nominal Required Bearing: 335K
 Factored Resistance Available: 111K
 Est. Length: 60 FT.
 No. Production Piles: 5
 No. Test Piles: 1
 No. Pile Shoes: 6



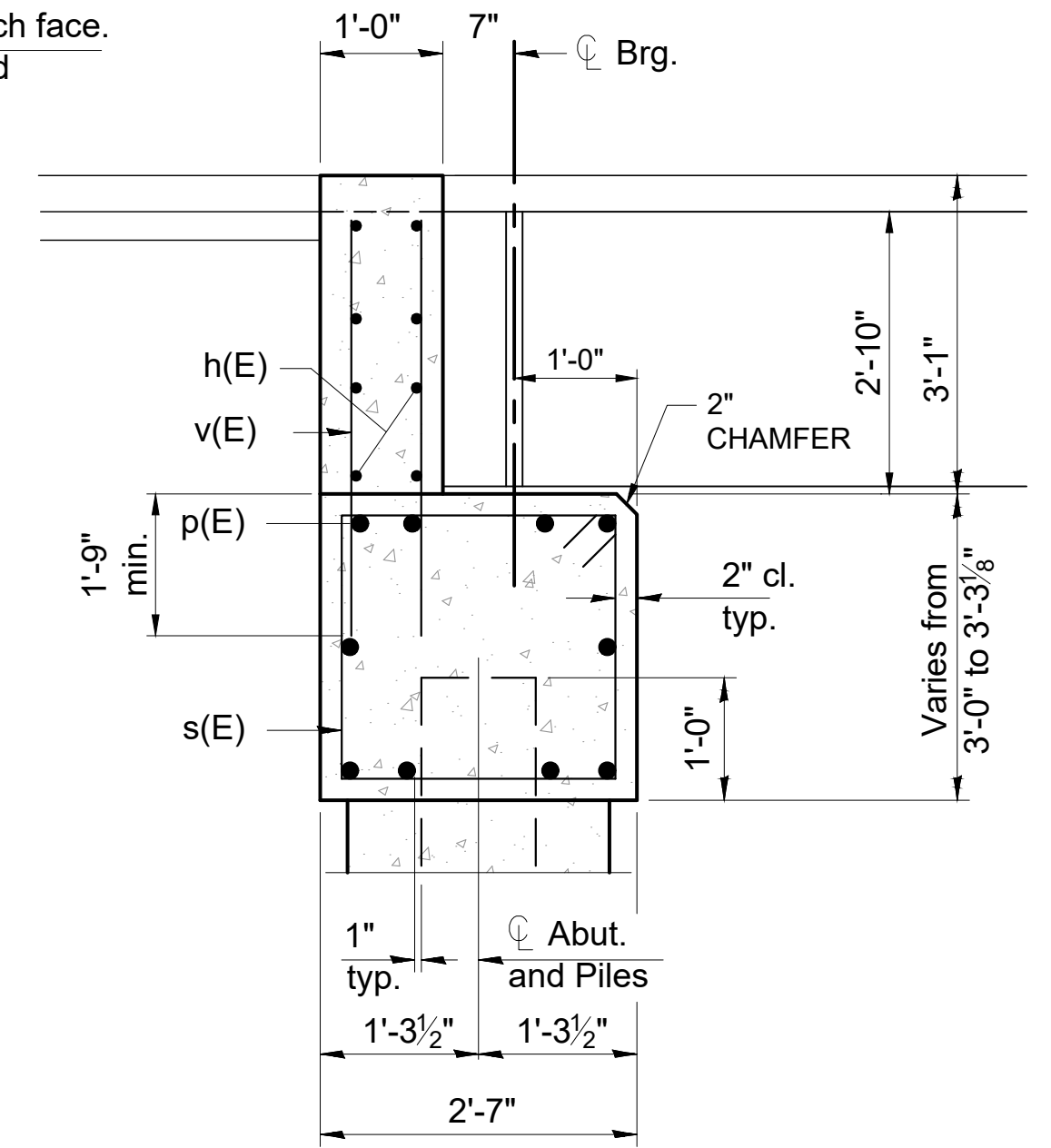
v2 BAR CUTTING DIAGRAM
 Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)



BAR u(E)



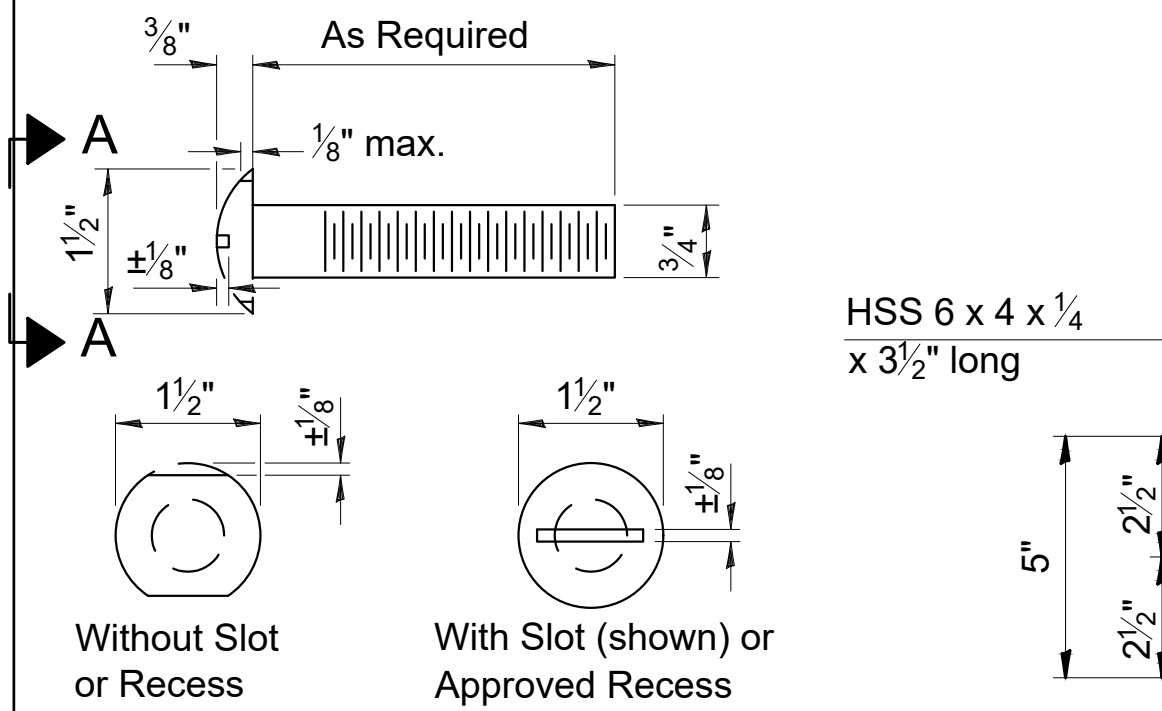
SECTION A-A

BILL OF MATERIAL

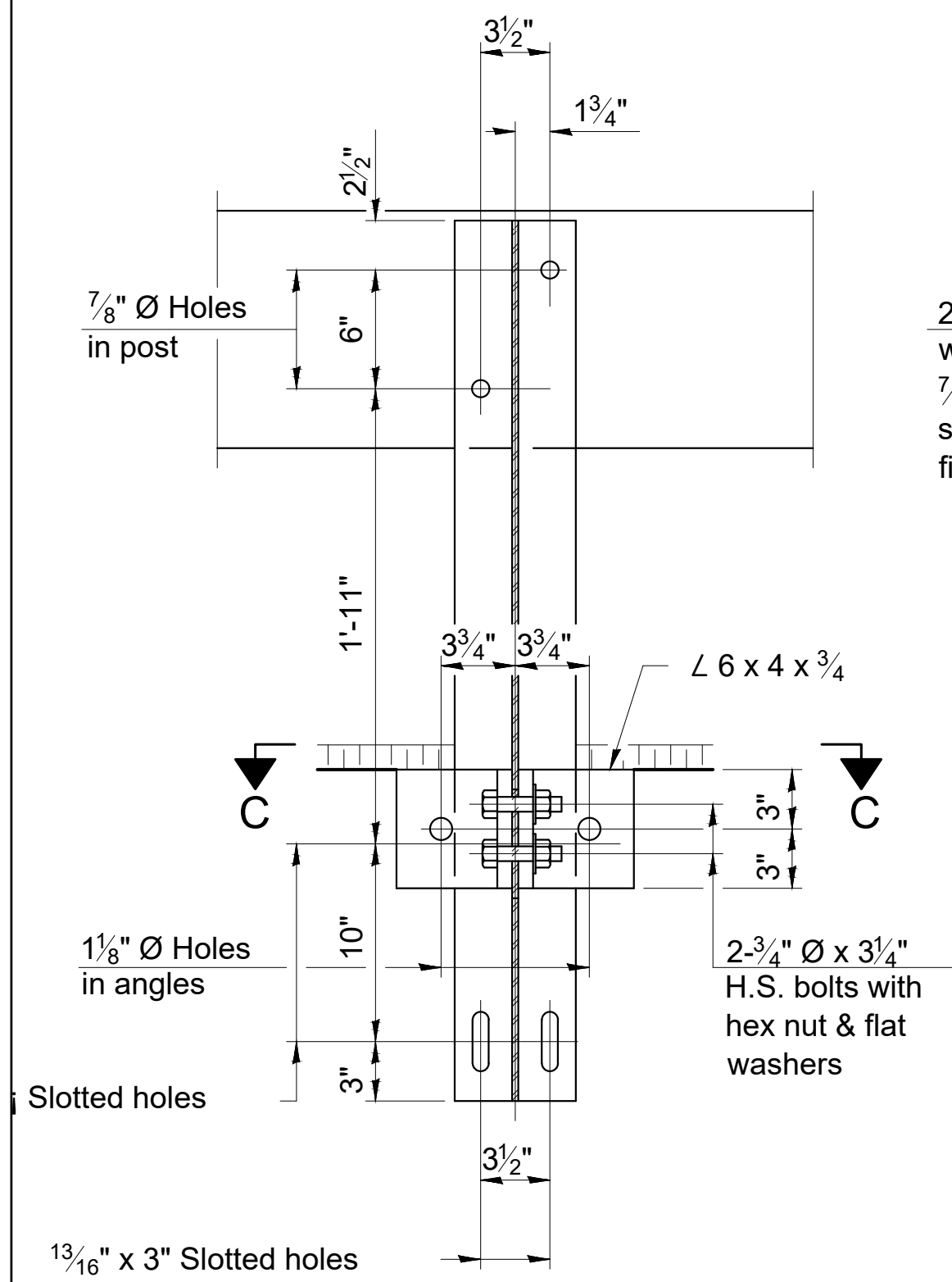
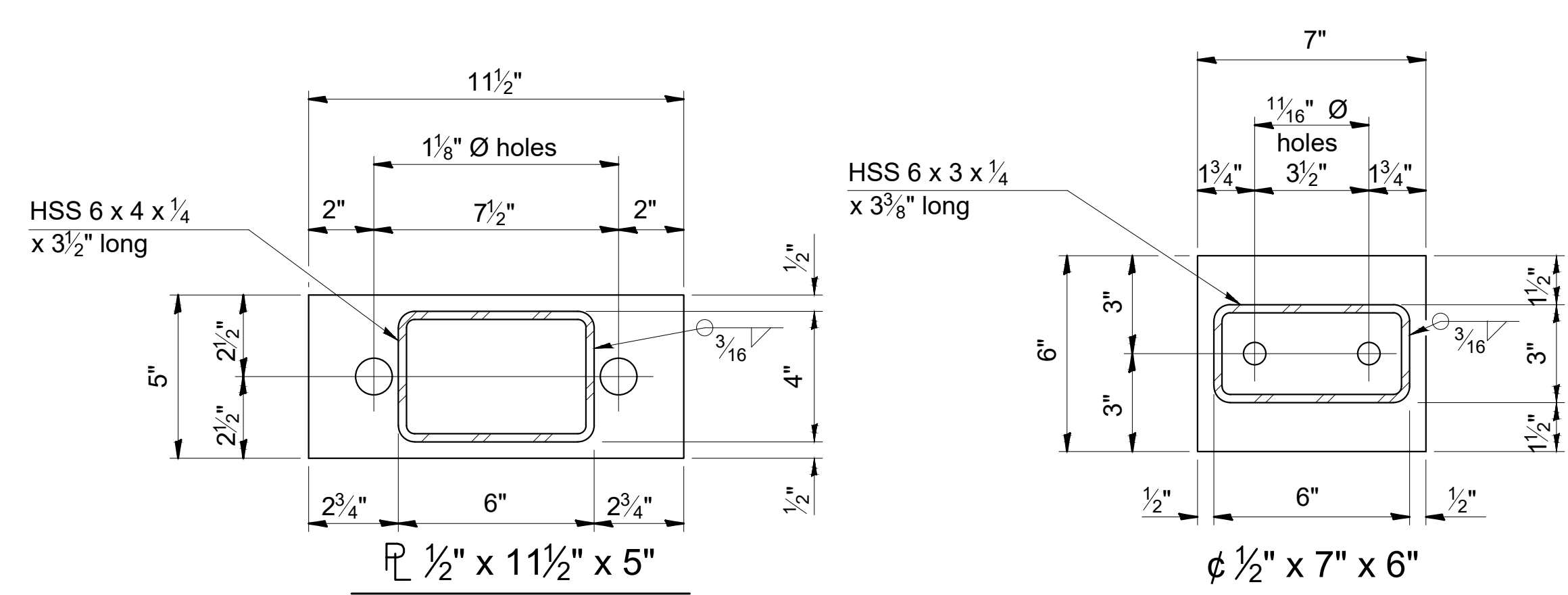
Bar	No.	Size	Length	Shape		
h(E)	16	#5	10'-0"	—		
h1(E)	8	#5	31'-8"	—		
p(E)	10	#7	33'-0"	—		
s(E)	36	#4	10'-3"	□		
u(E)	8	#6	12'-3"	□		
v(E)	66	#5	4'-8"	—		
v1(E)	12	#5	5'-8"	—		
v2(E)	12	#5	9'-8"	—		
					WEST	EAST
Structure Excavation			Cu. Yd.		10	52
Concrete Structures			Cu. Yd.		8.5	8.5
Reinforcement Bars, Epoxy Coated			Pound		2030	2030
Furnishing Steel Piles, HP 10x42			Foot		330	300
Driving Piles			Foot		330	300
Test Pile, Steel hp 10x42			Each		-	1
Pile Shoes			Each		6	6
Concrete Encasement			Cu. Yd.		2.1	2.1

Notes:
 For details of piles and Concrete Encasement, see sheet 12 of 22.
 Cast backwall after beams and concrete wearing surface, if applicable, have been erected.

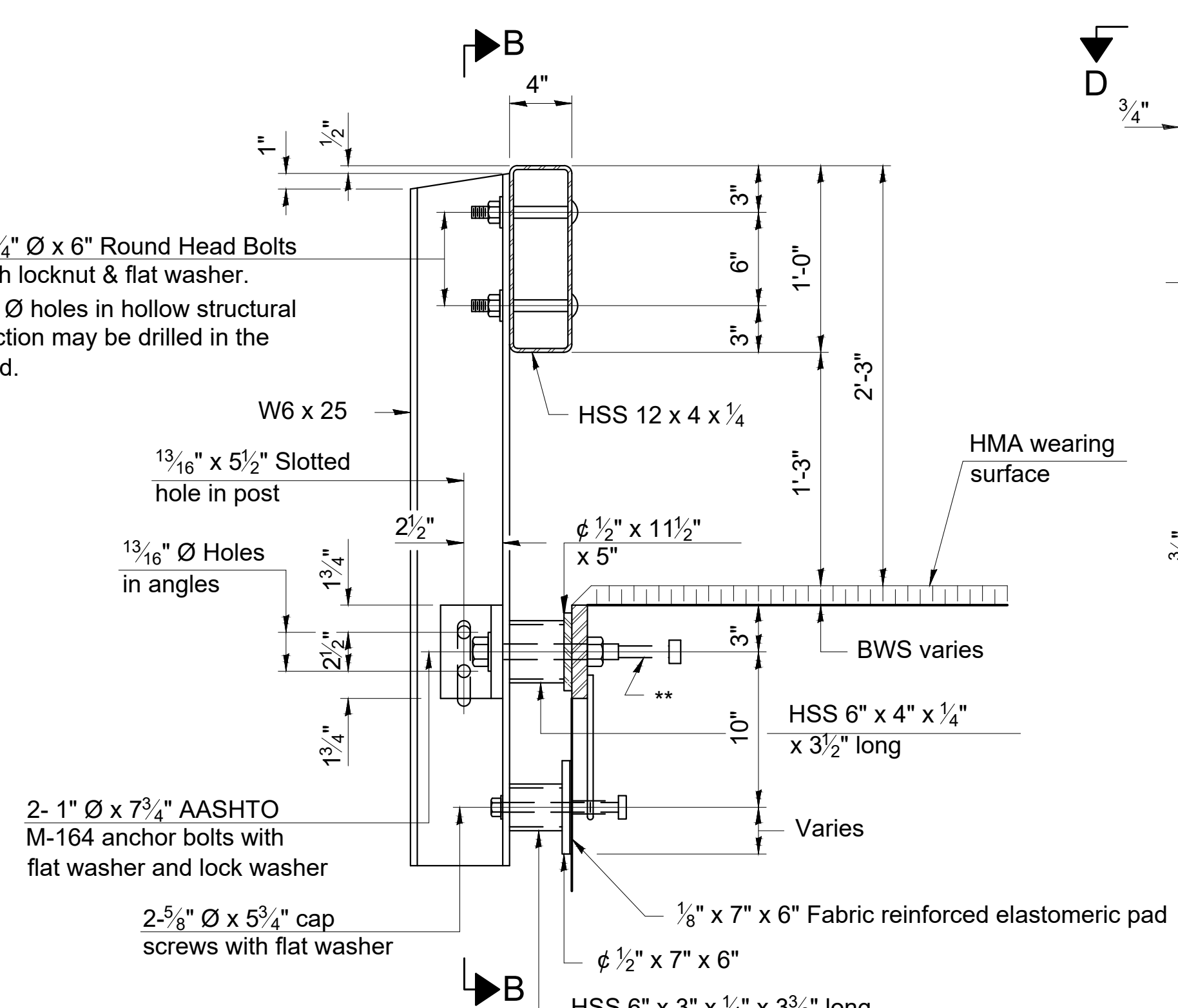
COUNTY HWY. 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR
 McDONOUGH COUNTY
 STATION 226+85.0



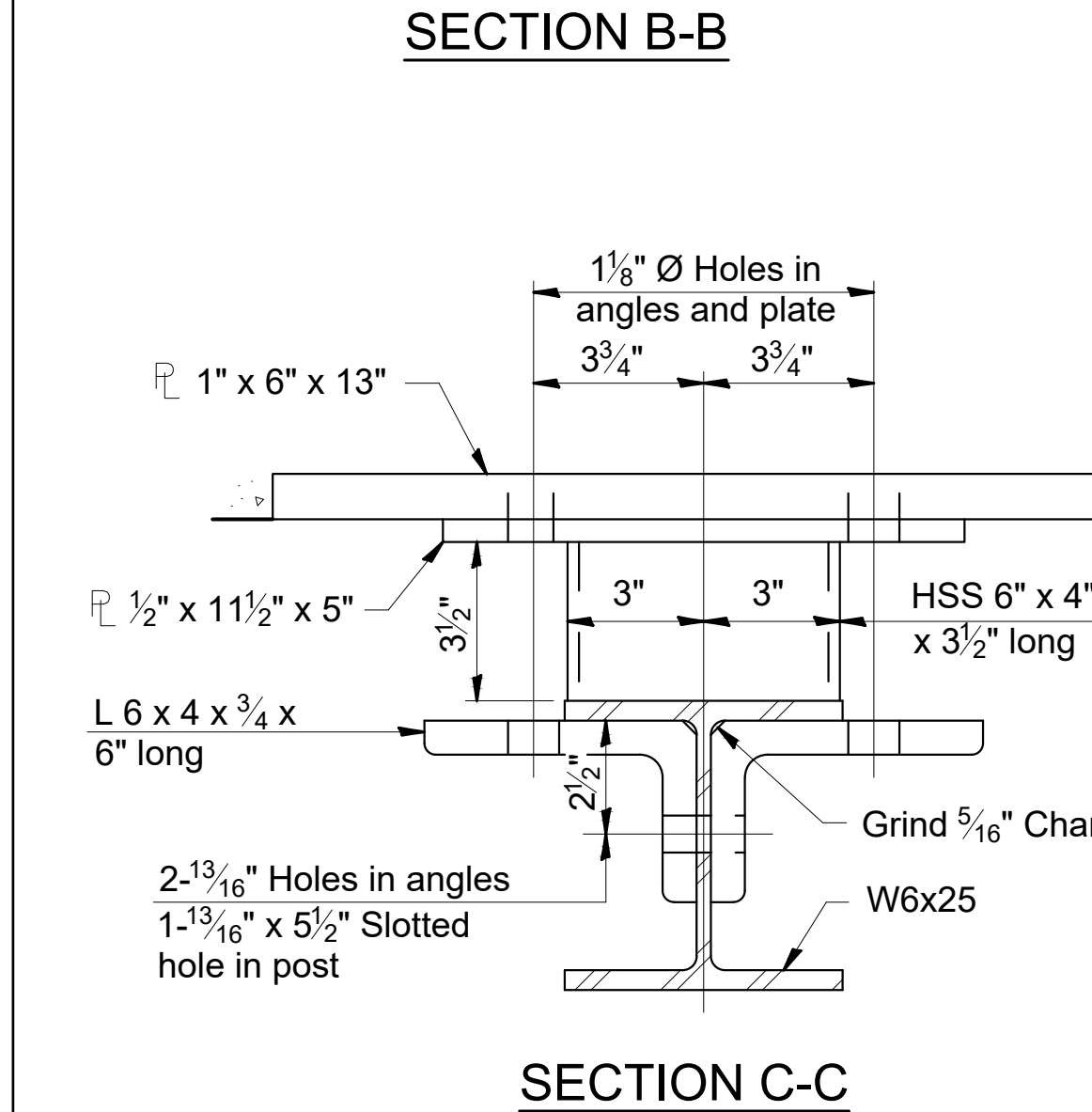
VIEW A-A
ROUND HEAD BOLT



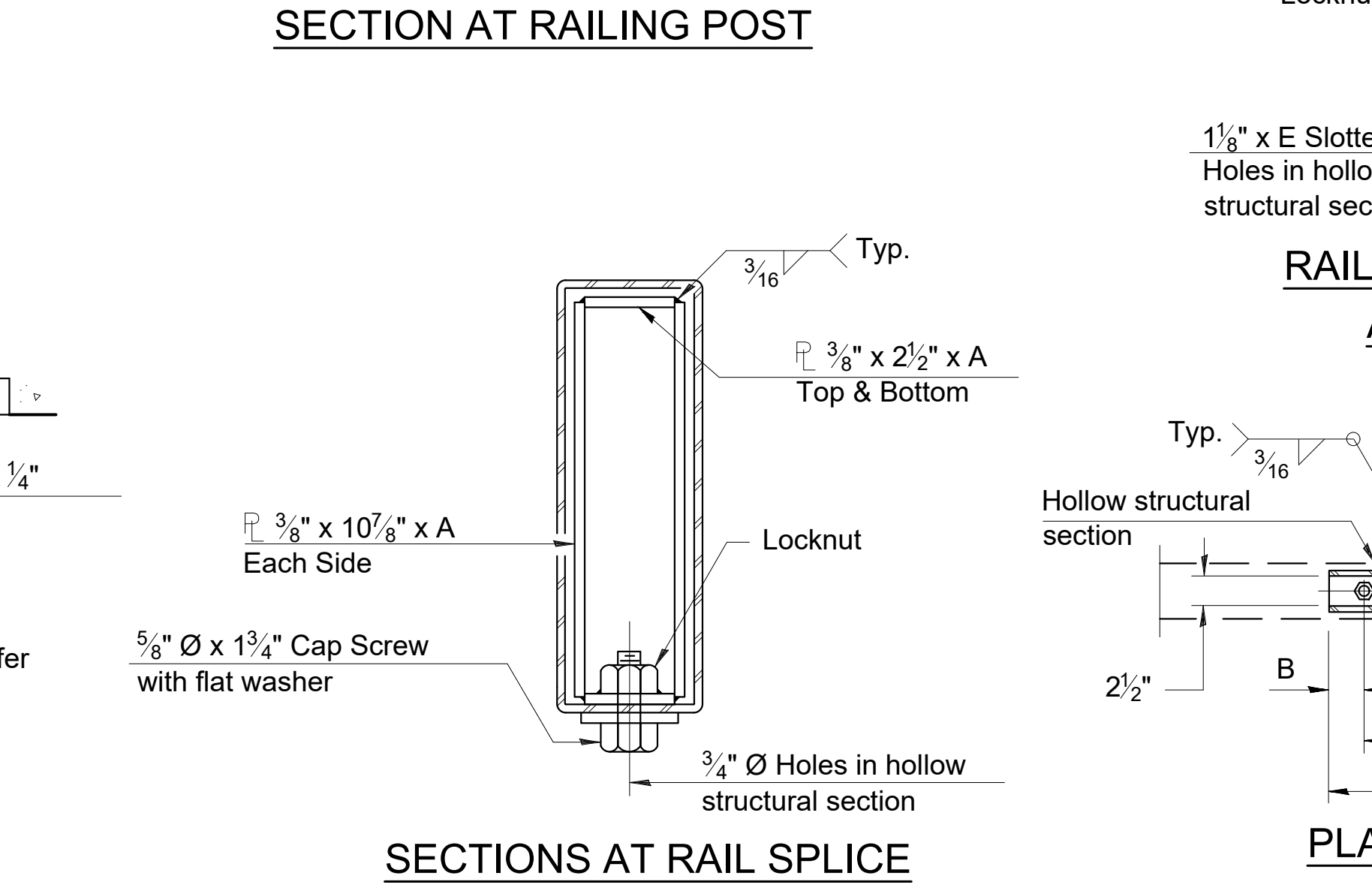
SECTION B-B



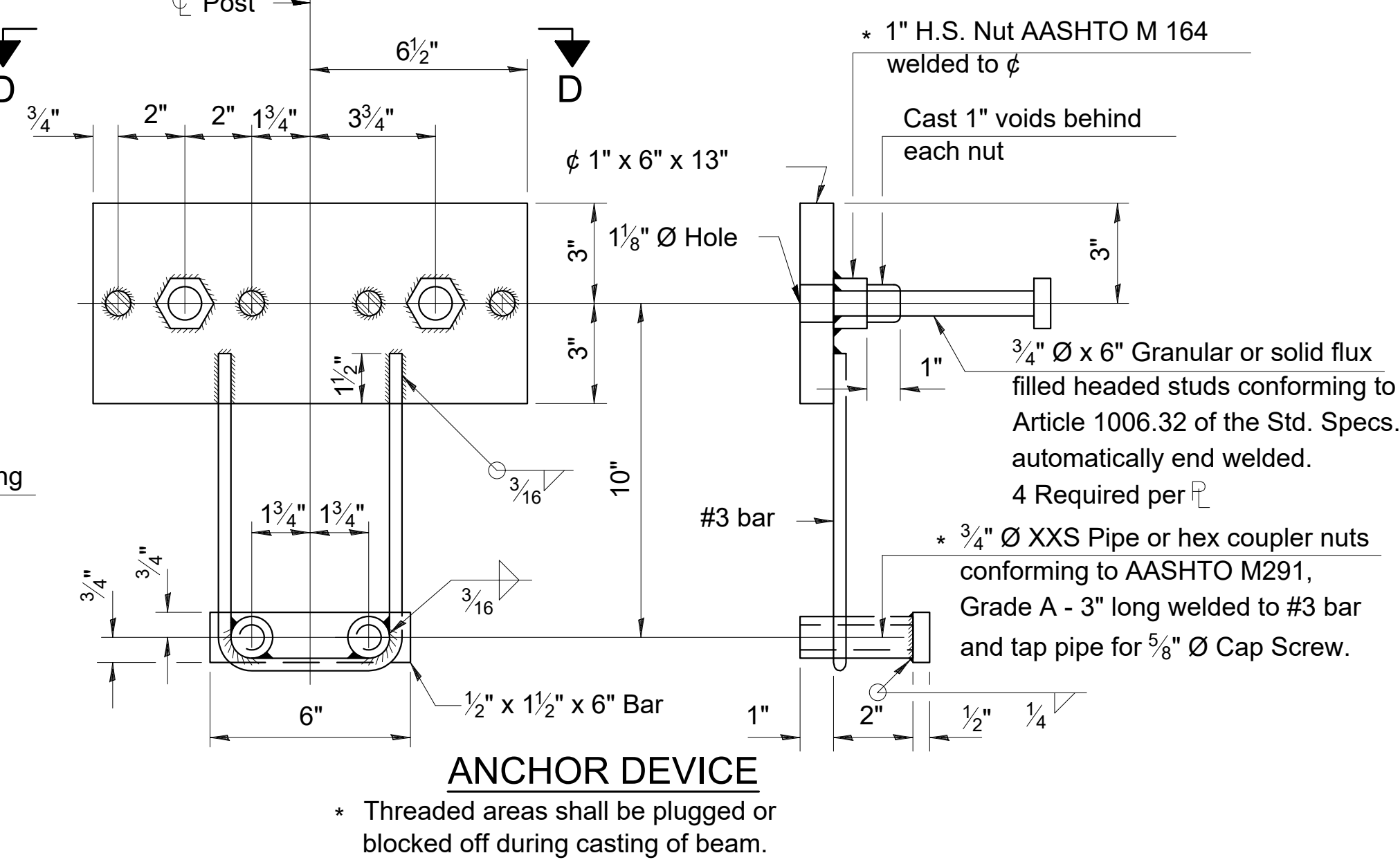
SECTION AT RAILING POST



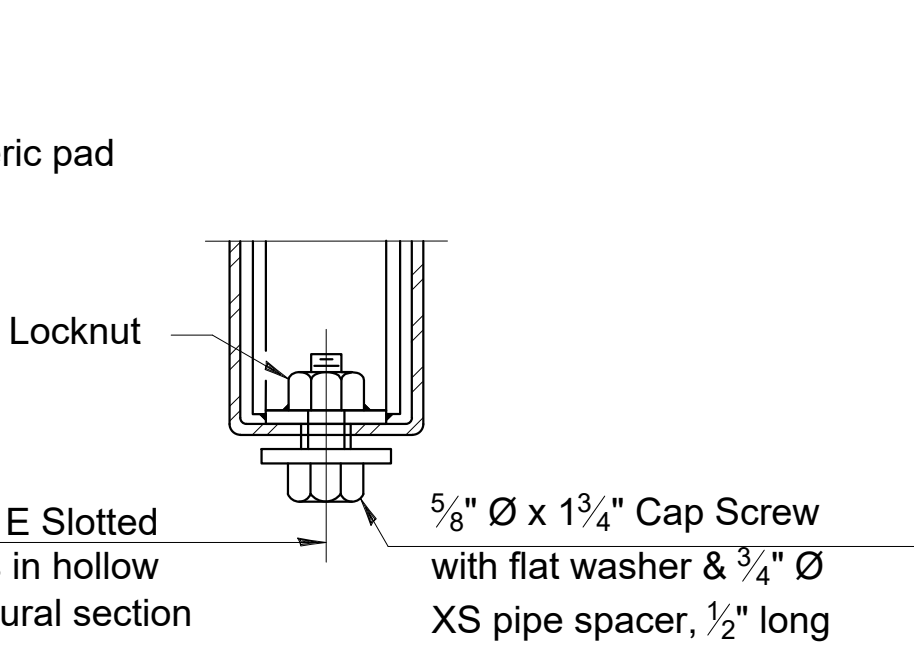
SECTION C-C



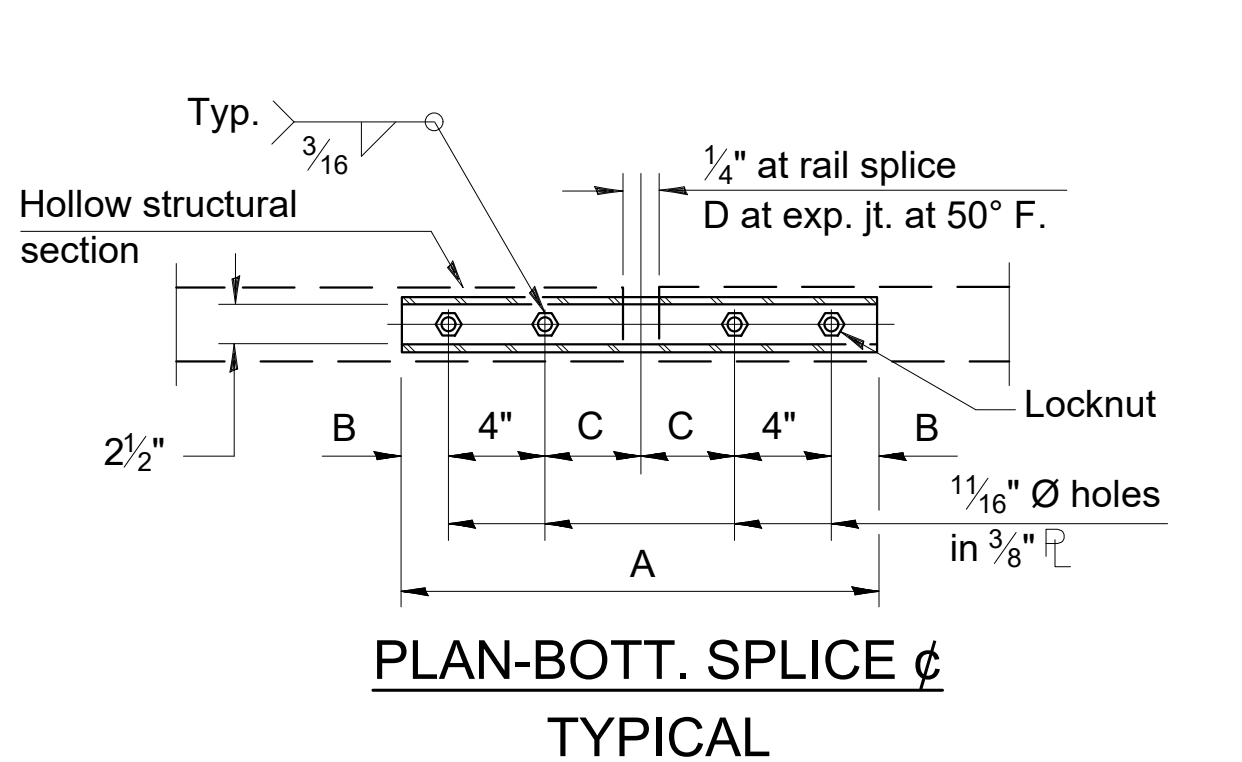
SECTIONS AT RAIL SPLICE



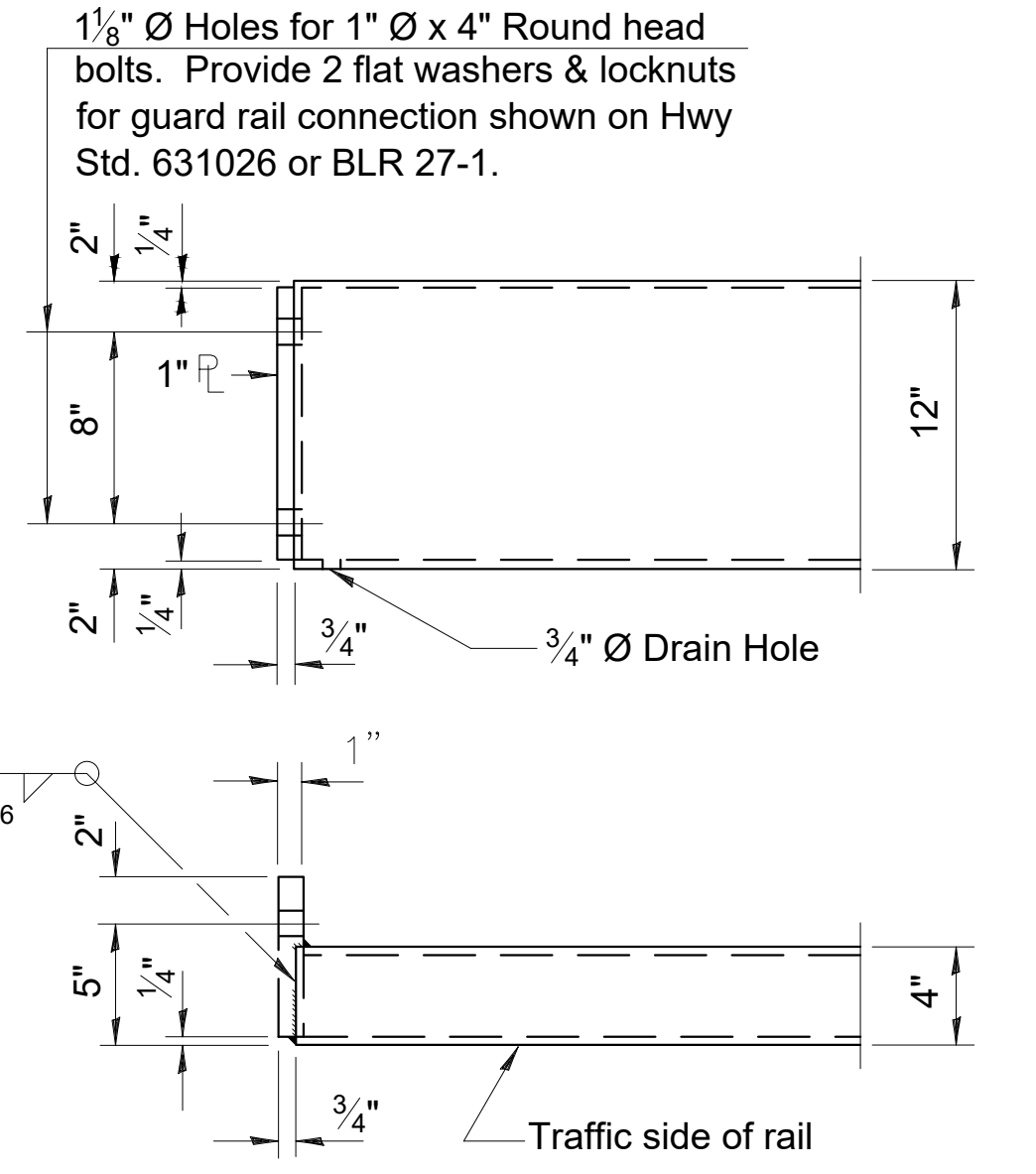
ANCHOR DEVICE



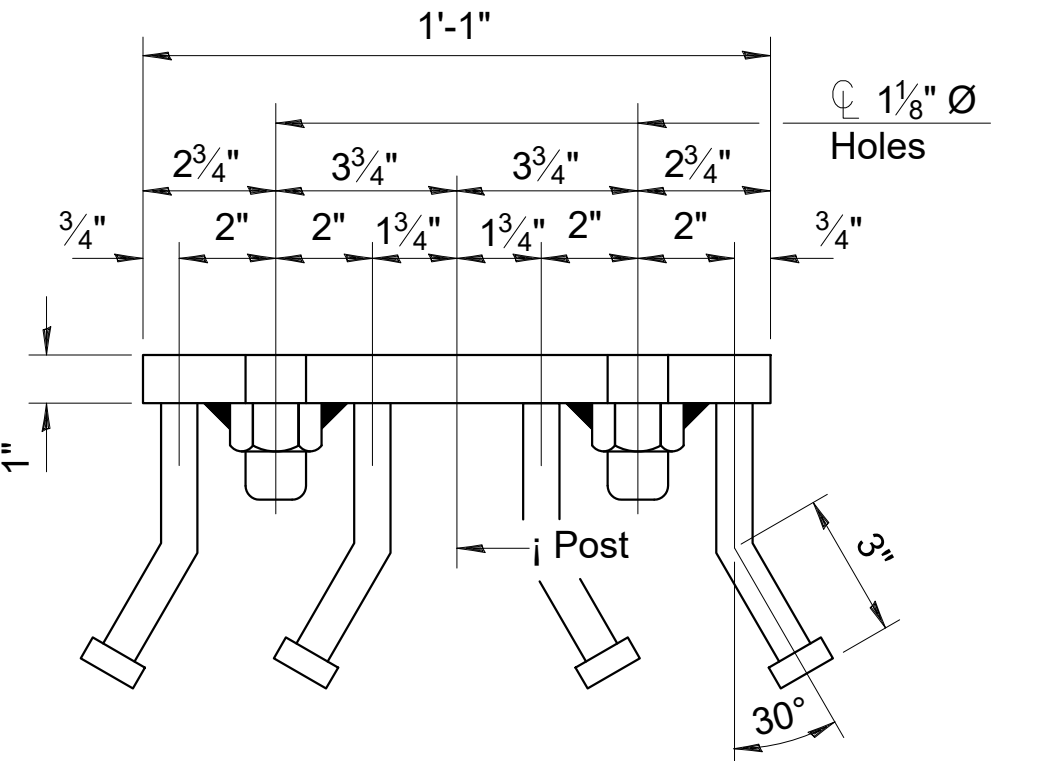
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	170

COUNTY HWY. 5 OVER NORTH FORK OF LAMOINE RIVER SECTION 18-00300-00-BR McDONOUGH COUNTY STATION 226+85.0

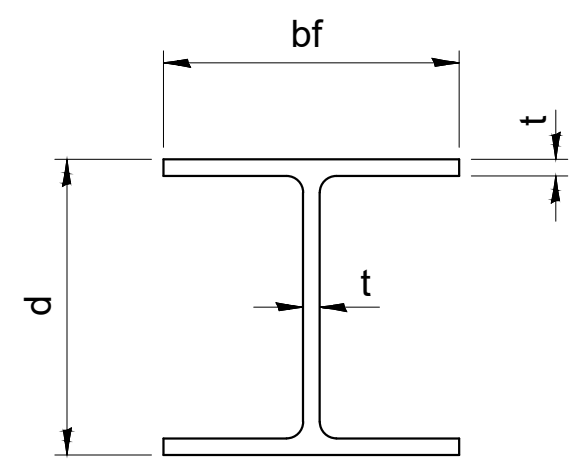
SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

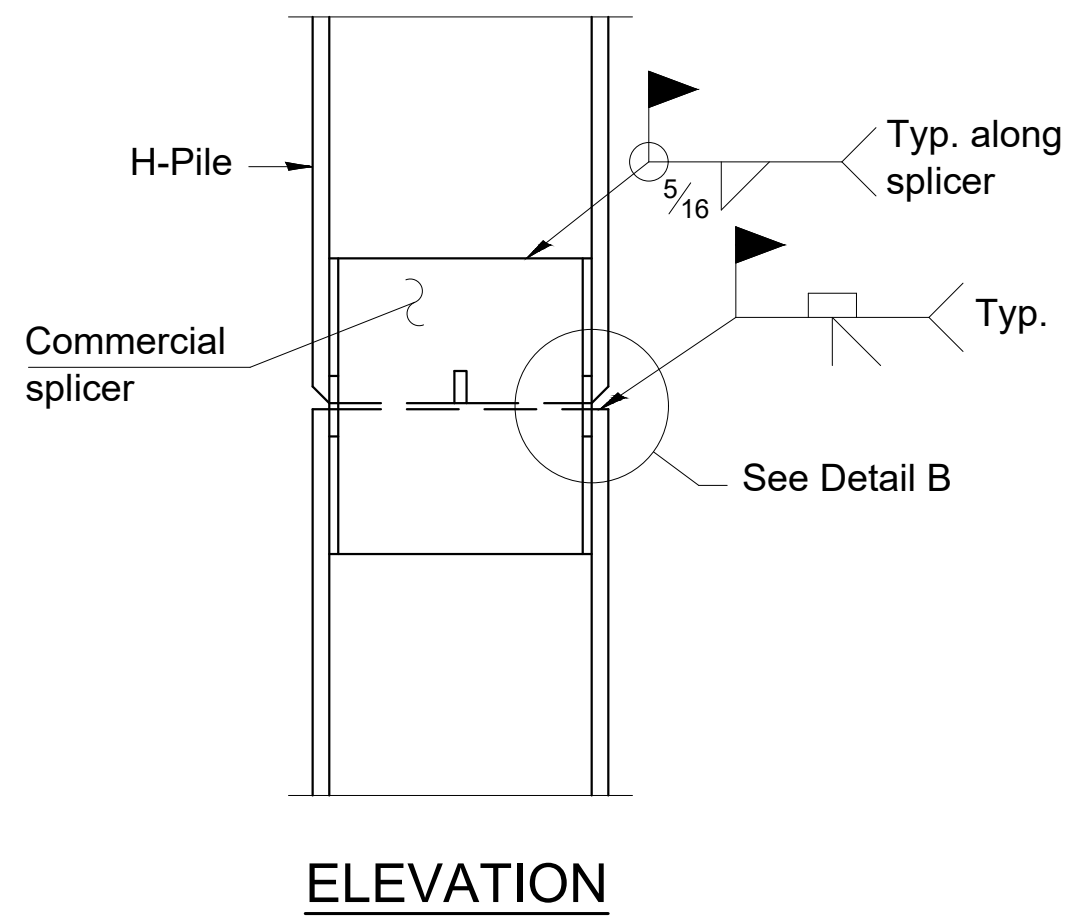
Notes:
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1'-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2 inch to accommodate the top reinforcement bar placement.

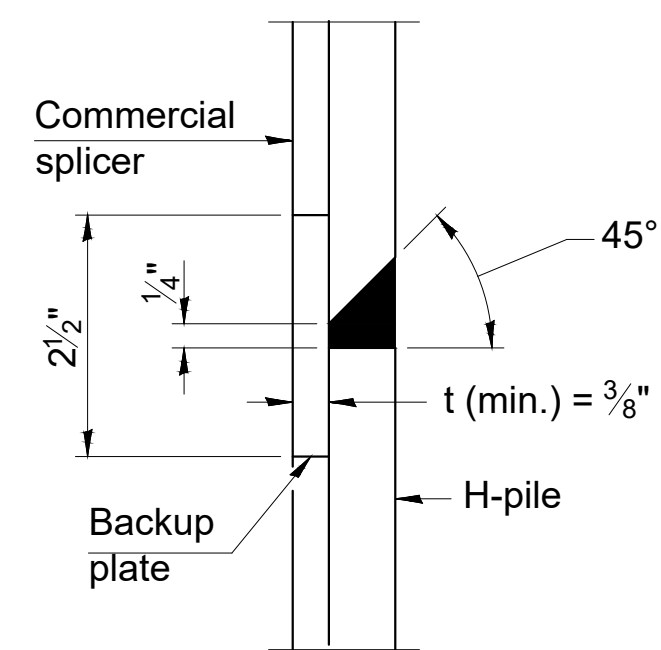


STEEL PILE TABLE

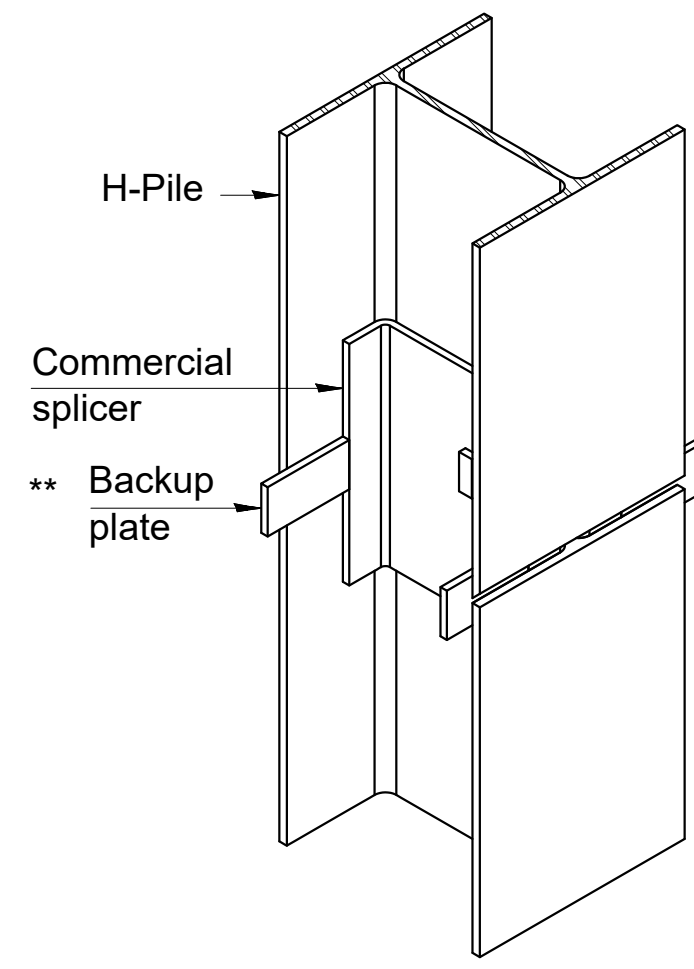
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 3/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 3/8"	7/16"	18"



ELEVATION

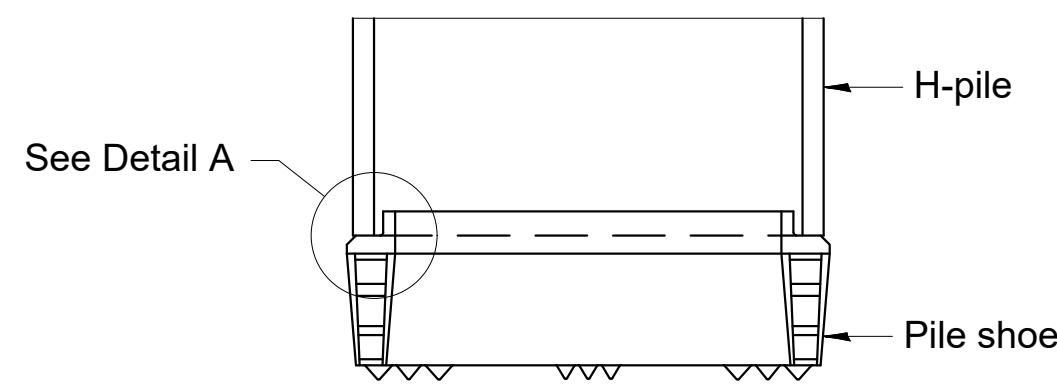


DETAIL "B"

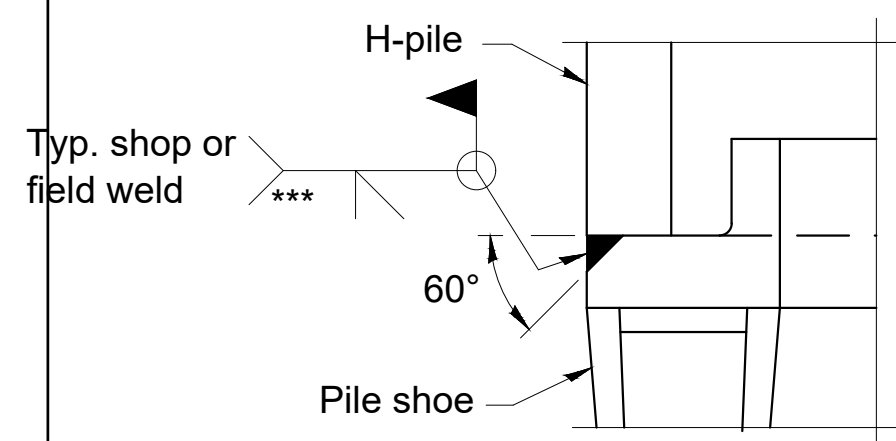


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

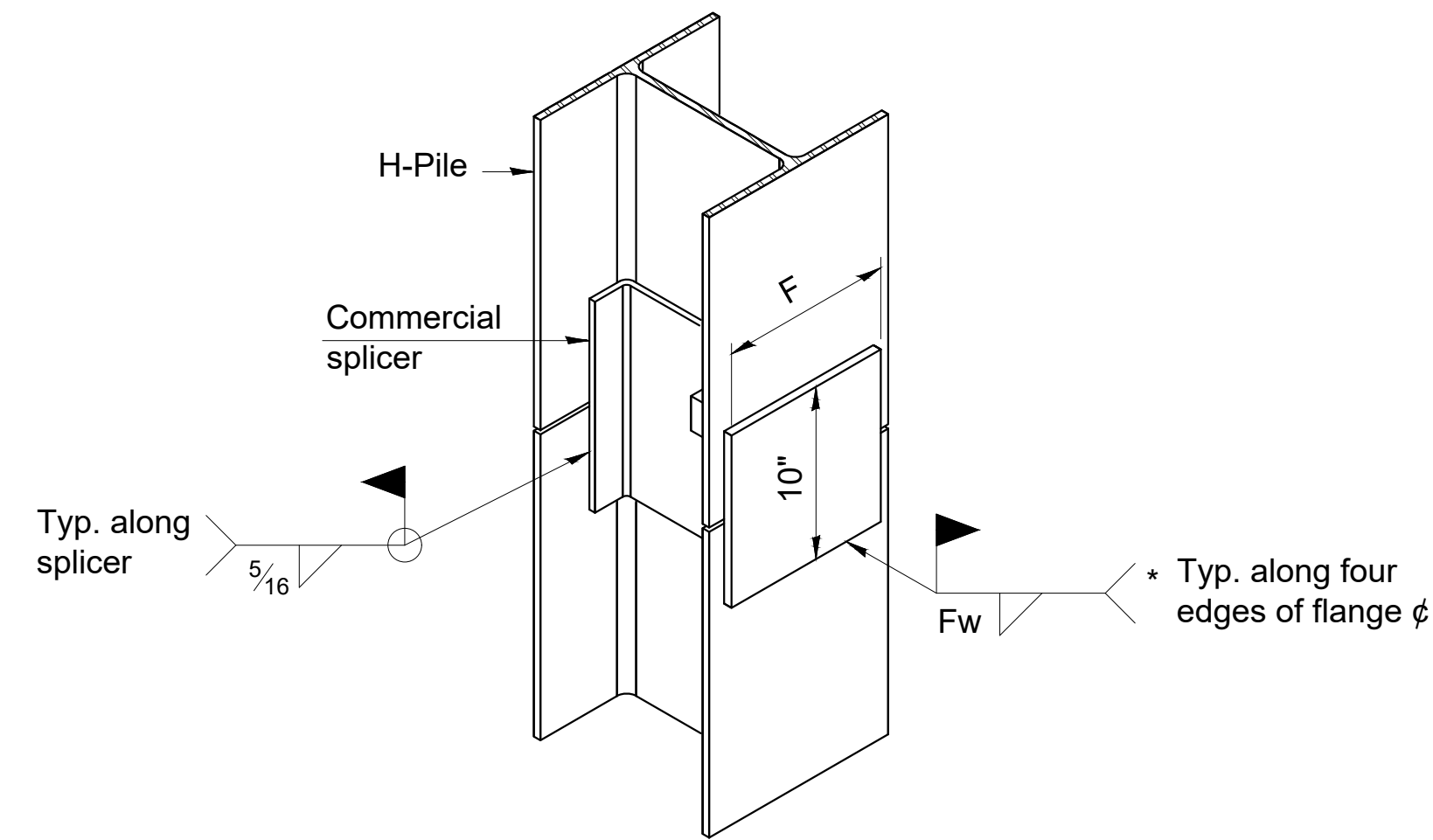


ELEVATION



DETAIL A

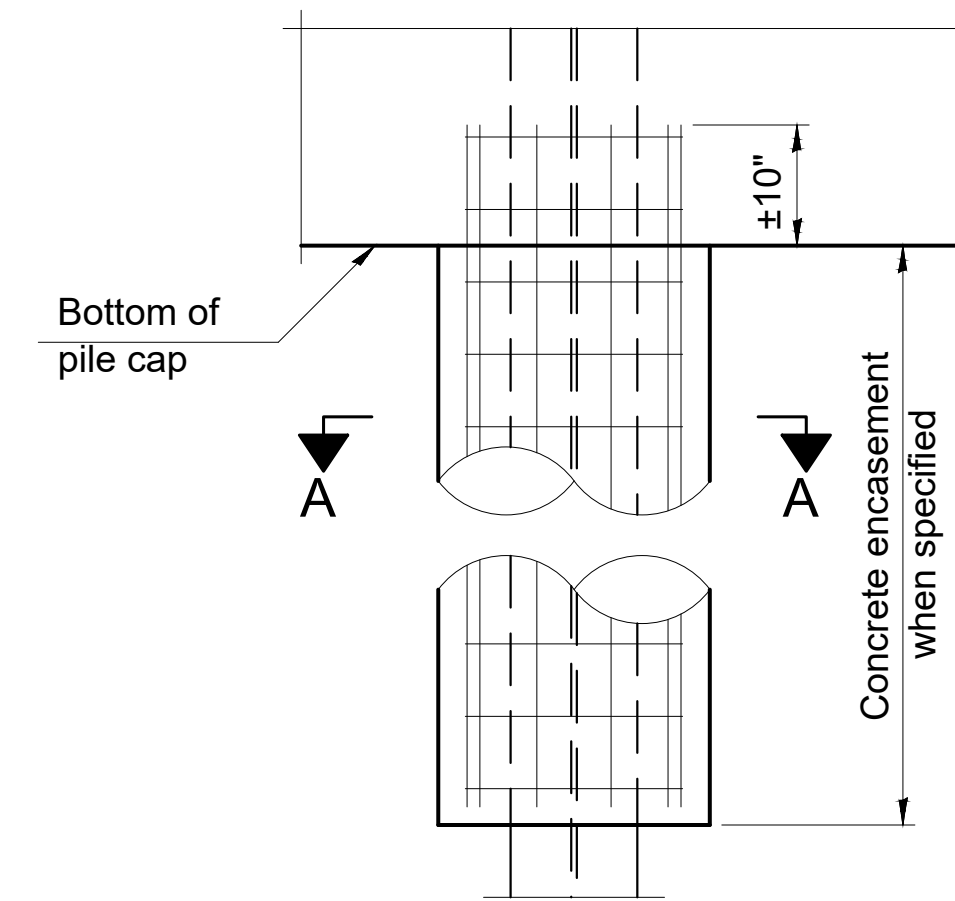
SHOE ATTACHMENT



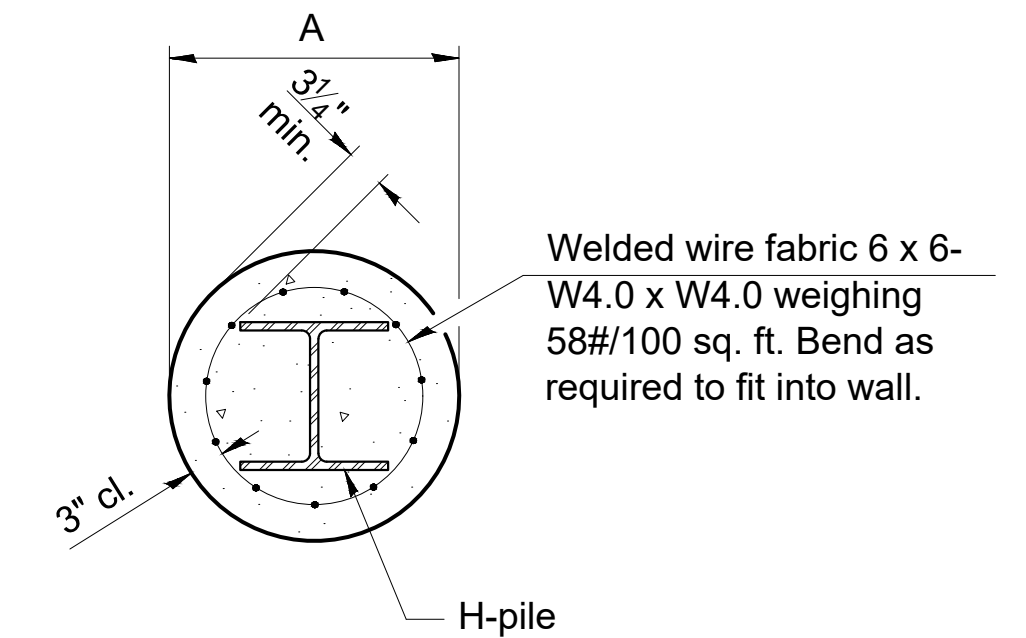
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



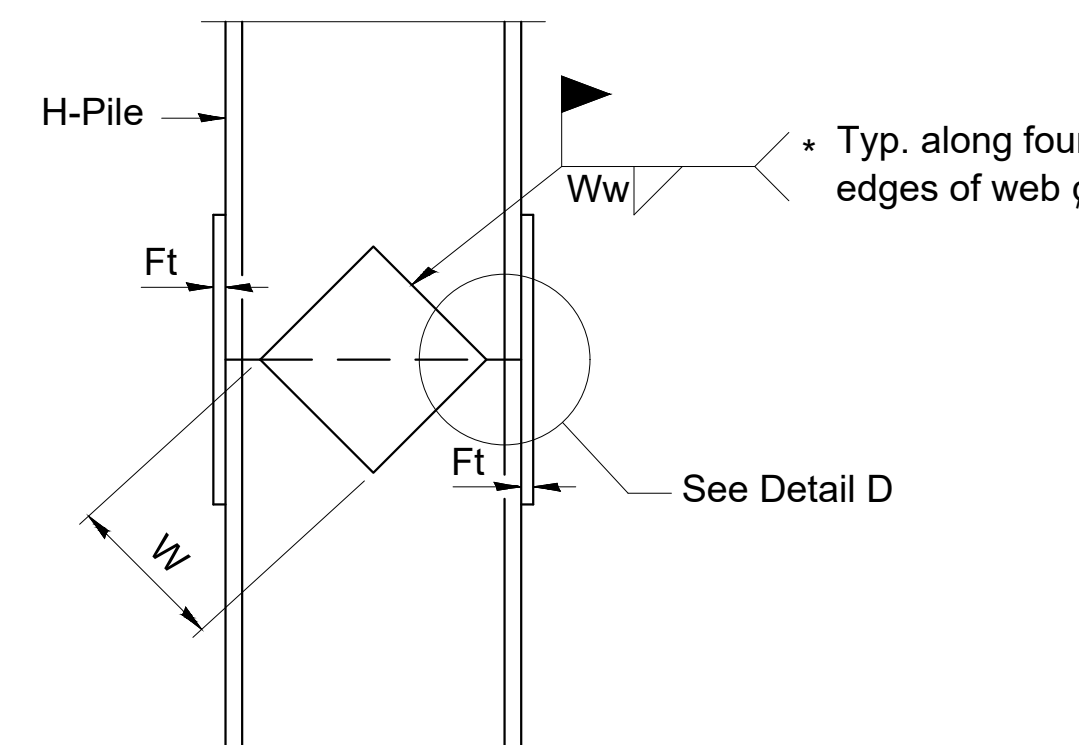
ELEVATION



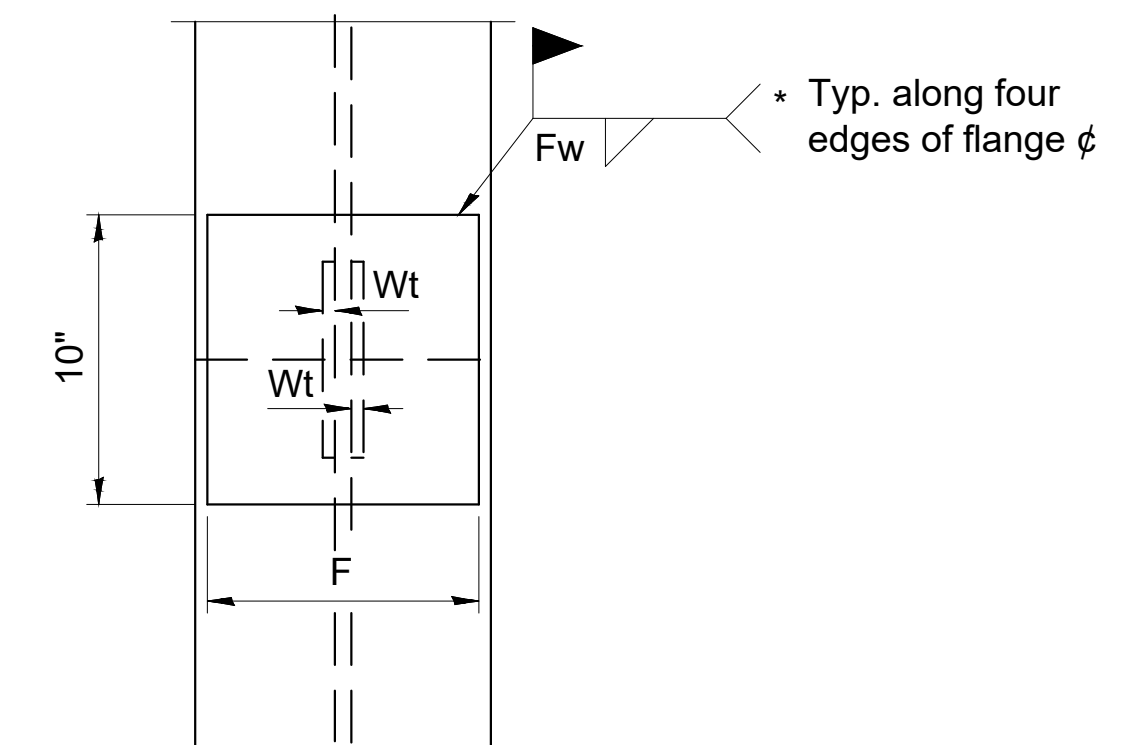
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT

(Forms for encasement may be omitted when soil conditions permit.)

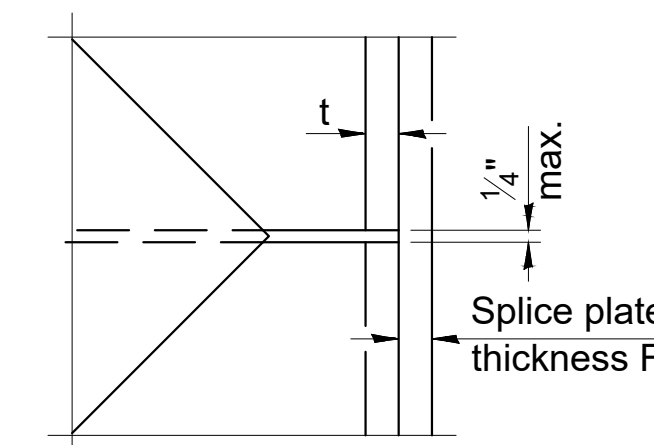


ELEVATION



END VIEW

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



DETAIL D

WELDED PLATE FIELD SPLICE

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 8-11-2017

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
IL DESIGN FIRM NO. 184-000843



DESIGNED	ECM/AAG	REVISED	-
DRAWN	TAB	REVISED	-
CHECKED	ECM/AAG	REVISED	-
DATE	10-05-20	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	12
ILLINOIS			CONTRACT NO. 89759	

COUNTY HWY. 5 OVER NORTH FORK
OF LAMOINE RIVER
SECTION 18-00300-00-BR
McDONOUGH COUNTY
STATION 226+85.0



SOIL BORING LOG

Page 1 of 2

Date 10/16/18

ROUTE CH 5 DESCRIPTION CH5 Over North Fork of Crooked Creek LOGGED BY Krusemark
 SECTION 18-00300-00-BR LOCATION Walnut Grove Township, SEC. 14, TWP. T7N, RNG. R2W, 4th PM,
 COUNTY McDonough DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME 55 Automatic

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H S	B L O W S Qu	U C S Qu	M O I S T	Surface Water Elev. _____ ft		D E P T H S		U C S Qu	M O I S T
						Stream Bed Elev. _____ ft	Groundwater Elev.:	(ft)	(/6")		
	653.47					Very Loose, Dark Gray, Fine- To Medium-Grained SAND With Considerable Silty Clay <i>(continued)</i>	1				
	653.13					Soft, Dark Gray SILTY CLAY With Decayed Wood	1			0.4	31
	650.30					Soft, Dark Gray SILTY CLAY	1				
	647.80					Medium-Density, Dark Gray, Medium-Grained SAND	5				
	645.30					Medium-Density, Dark Gray and Brown, Medium- To Coarse-Grained SAND and Fine-Grained GRAVEL	8				
	642.80					Stiff, Blue-Gray and Gray CLAY, GLACIAL TILL	3			1.8	17
	640.30					Very Loose, Dark Gray, Fine- To Medium-Grained SAND With Considerable Silty Clay	1				18

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 10/16/18

ROUTE CH 5 DESCRIPTION CH5 Over North Fork of Crooked Creek LOGGED BY Krusemark
 SECTION 18-00300-00-BR LOCATION Walnut Grove Township, SEC. 14, TWP. T7N, RNG. R2W, 4th PM,
 COUNTY McDonough DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME 55 Automatic

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H S	B L O W S Qu	U C S Qu	M O I S T	Surface Water Elev. _____ ft		D E P T H S		U C S Qu	M O I S T
						Stream Bed Elev. _____ ft	Groundwater Elev.:	(ft)	(/6")		
	634.8					Hard, Gray CLAY SHALE <i>(continued)</i>	2			4.3	10
	635.1					Hard, Gray SHALE	3	1.6	18		
	634.0					Stiff, Blue-Gray and Gray CLAY, GLACIAL TILL <i>(continued)</i>	4				
	630.30					End of Boring	4				
	627.30					Very Stiff, Gray CLAY SHALE	4				
	625.30					Hard, Gray CLAY SHALE	5	1.3	19	4.5	7
	620.30					End of Boring	6				
	600.80					Very Stiff, Gray CLAY SHALE	3				
	596.30					Hard, Gray CLAY SHALE	4	1.5	18	4.5	5

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)

COUNTY HWY 5 OVER NORTH FORK
 OF LAMOINE RIVER
 SECTION 18-00300-00-BR
 McDONOUGH COUNTY

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 IL DESIGN FIRM NO. 184-000843



DESIGNED - ECM/AAG
 DRAWN - TAB
 CHECKED - ECM/AAG
 DATE - 10-05-20

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	13
ILLINOIS			CONTRACT NO. 89759	



SOIL BORING LOG

Page 1 of 2

Date 10/16/18

ROUTE CH 5 DESCRIPTION CH5 Over North Fork of Crooked Creek LOGGED BY Krusemark
 SECTION 18-00300-00-BR LOCATION Walnut Grove Township, SEC. 23, TWP. T7N, RNG. R2W, 4th PM,
 Latitude , Longitude
 COUNTY McDonough DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME 55 Automatic

STRUCT. NO.	055-3068	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
Station	226+78	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
		P	O	S	I			P	O	S	I
		T	W	Q	S	Groundwater Elev.:		H	S	U	T
BORING NO.	B-02	H	S	Qu	T	First Encounter	633.7	(ft)	(/6")	(tsf)	(%)
Station	227+27					Upon Completion	636.4	ft. ∇			
Offset	4.0 ft Right					After	-	ft			
Ground Surface Elev.	654.20	ft	(ft)	(/6")	(tsf)	(%)					
OIL and CHIPS (12.0")	653.20					Soft, Gray SILTY CLAY LOAM (continued)	632.70	1	0	0.3	28
	652.87										
Brown, Fine- To Medium-Grained SAND (16.0")						Very Loose, Gray, Fine- To Medium-Grained SAND With Some Silty Clay Loam		1	1	-	21
Stiff, Light Brown, Brown and Black CLAY LOAM With Some Fine-Grained Gravel (Fill)	650.20						630.20	1	2	0.7	26
						Medium, Dark Gray SILTY CLAY LOAM		2	2	B	
							627.20				
Medium, Black SILTY CLAY LOAM With Trace of Organic Matter (Fill)	647.20					Loose, Gray, Fine- To Medium-Grained SAND		4	5	-	-
							624.70				
						Medium-Density, Gray, Fine- To Medium-Grained SAND		4	5	-	-
Medium, Black SILTY CLAY LOAM With Trace of Organic Matter (Probable Fill)	644.70						-30	4	5	-	-
								6			
Medium, Dark Brown SILTY CLAY LOAM With Trace of Organic Matter (Possible Fill)	642.20						620.70				
						Stiff, Brown SILTY CLAY					
Stiff, Light Brown and Gray SILTY CLAY							-35	3	4	1.0	32
								4	4	B	
Soft, Gray SILTY CLAY LOAM	637.20					Very Stiff, Dark Gray CLAY, GLACIAL TILL	616.20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 10/16/18

ROUTE CH 5 DESCRIPTION CH5 Over North Fork of Crooked Creek LOGGED BY Krusemark
 SECTION 18-00300-00-BR LOCATION Walnut Grove Township, SEC. 23, TWP. T7N, RNG. R2W, 4th PM,
 Latitude , Longitude
 COUNTY McDonough DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME 55 Automatic

STRUCT. NO.	055-3068	D	B	U	M	Surface Water Elev.	ft	D	B	U	M	
Station	226+78	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O	
		P	O	S	I			P	O	S	I	
		T	W	Q	S	Groundwater Elev.:		H	S	U	T	
BORING NO.	B-02	H	S	Qu	T	First Encounter	633.7	(ft)	(/6")	(tsf)	(%)	
Station	227+27					Upon Completion	636.4	ft. ∇				
Offset	4.0 ft Right					After	-	ft				
Ground Surface Elev.	654.20	ft	(ft)	(/6")	(tsf)	(%)						
Very Stiff, Dark Gray CLAY, GLACIAL TILL (continued)						Hard, Gray SHALE (continued)				75/6"	4.5	6
											P	
Medium-Density, Gray Fine-Grained SAND With Considerable Silt	610.20											
Medium-Density, Gray, Medium-To Coarse-Grained SAND and Fine- To Coarse-Grained GRAVEL	606.70											
Hard, Dark Gray CLAY SHALE	600.70											
Hard, Gray SHALE	595.70											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

COUNTY HWY 5 OVER NORTH FORK
 OF LAMOINE RIVER
 SECTION 18-00300-00-BR
 McDONOUGH COUNTY

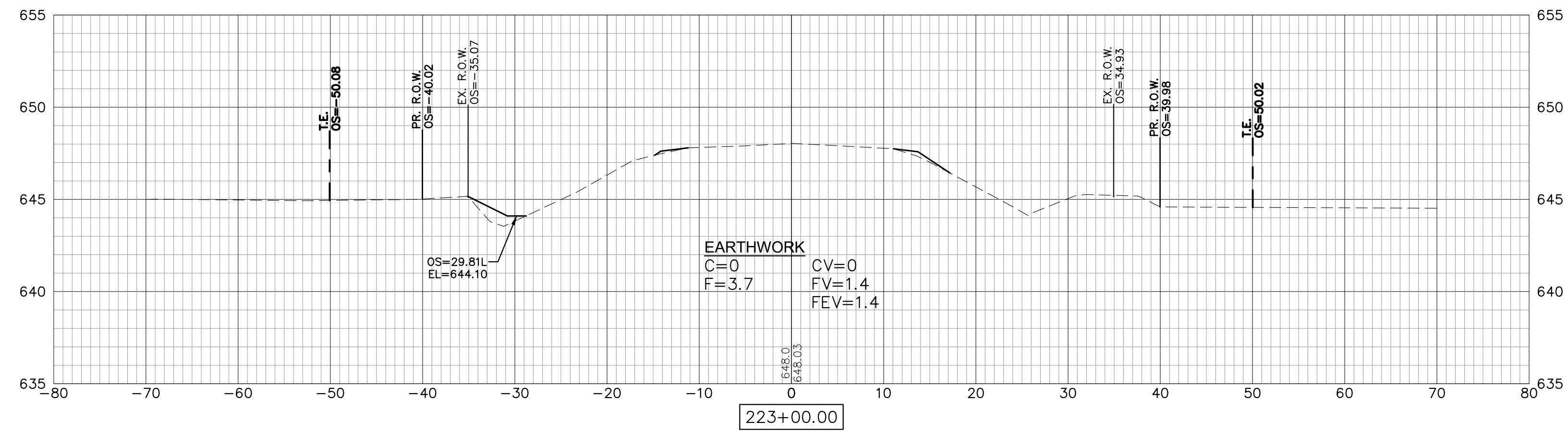


DESIGNED	— ECM/AAG	REVISED	—
DRAWN	— TAB	REVISED	—
CHECKED	— ECM/AAG	REVISED	—
DATE	— 10-05-20	REVISED	—

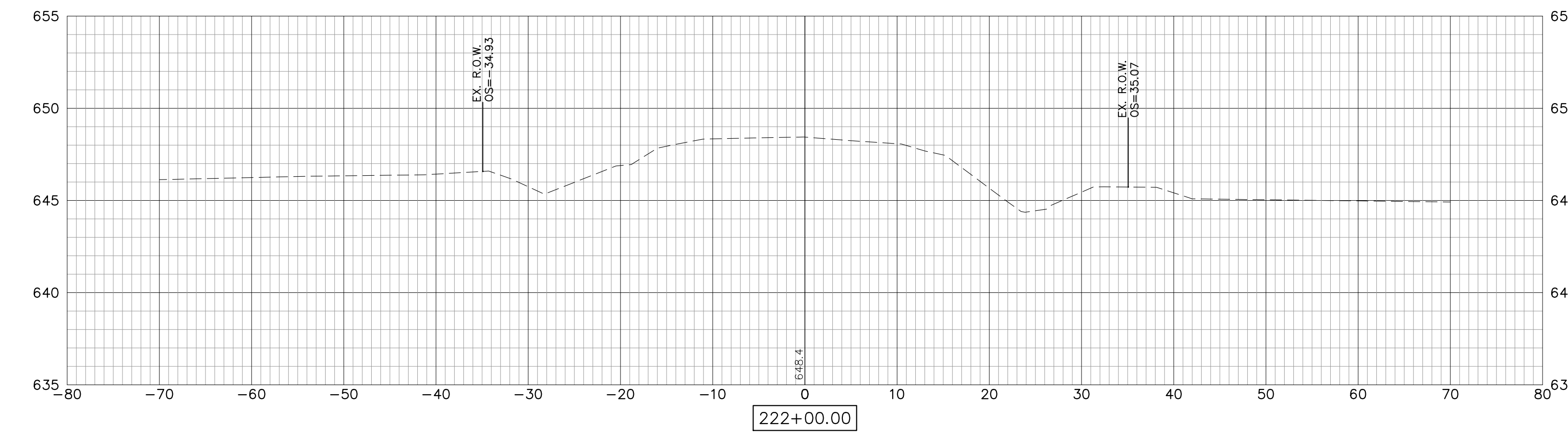
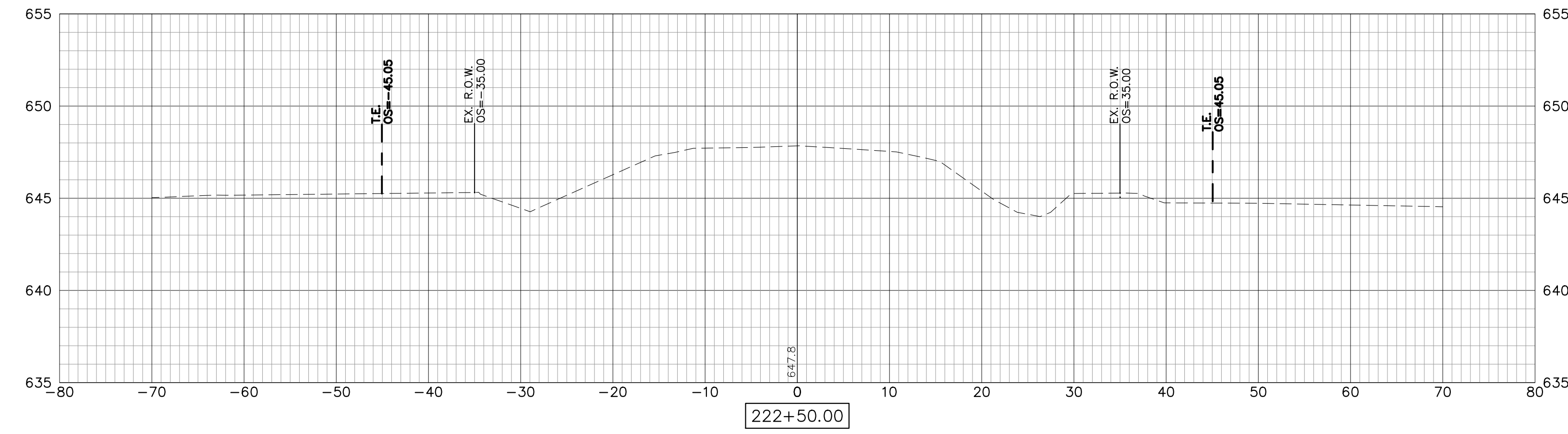
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	14
		CONTRACT NO. 89759		
ILLINOIS				



PROPOSED IMPROVEMENT
BEGINS STA. 222+79



- EARTHWORK**
- C= EARTH EXCAVATION (SQ. FT.)
 - F= EMBANKMENT (SQ. FT.)
 - EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 - CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 - EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 - FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 - FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)

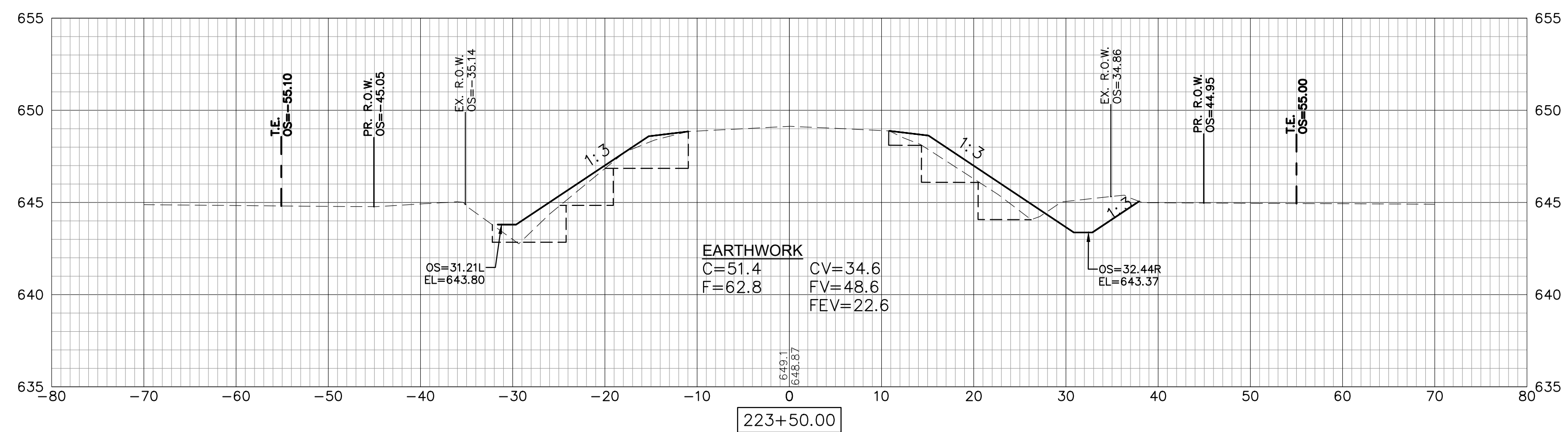
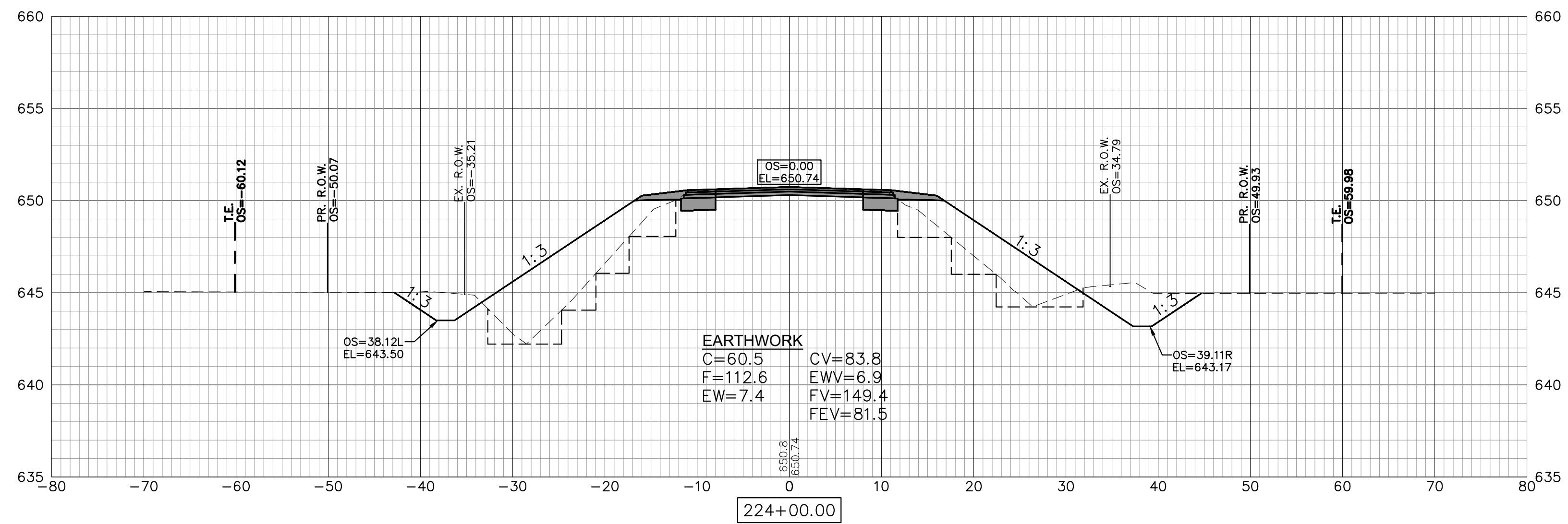
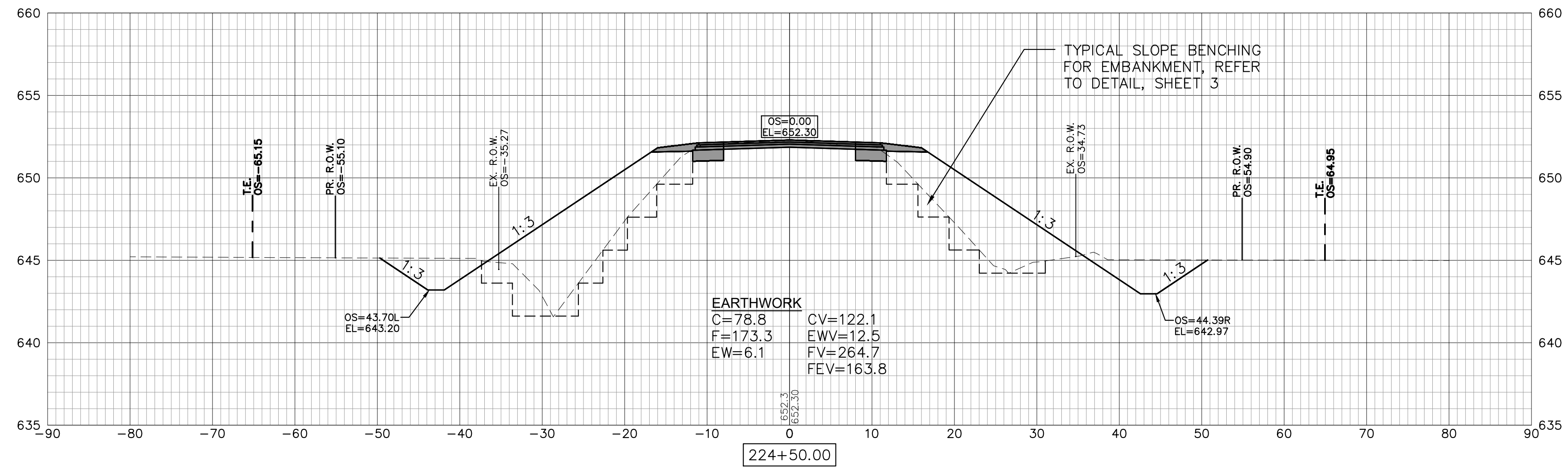


DESIGNED	ECM/AAG	REVISED	-
DRAWN	TAB	REVISED	-
CHECKED	ECM/AAG	REVISED	-
DATE	10-05-20	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS
COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	15
ILLINOIS CONTRACT NO. 89759				



- EARTHWORK**
 C= EARTH EXCAVATION (SQ. FT.)
 F= EMBANKMENT (SQ. FT.)
 EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 ILL DESIGN FIRM NO. 184-000843



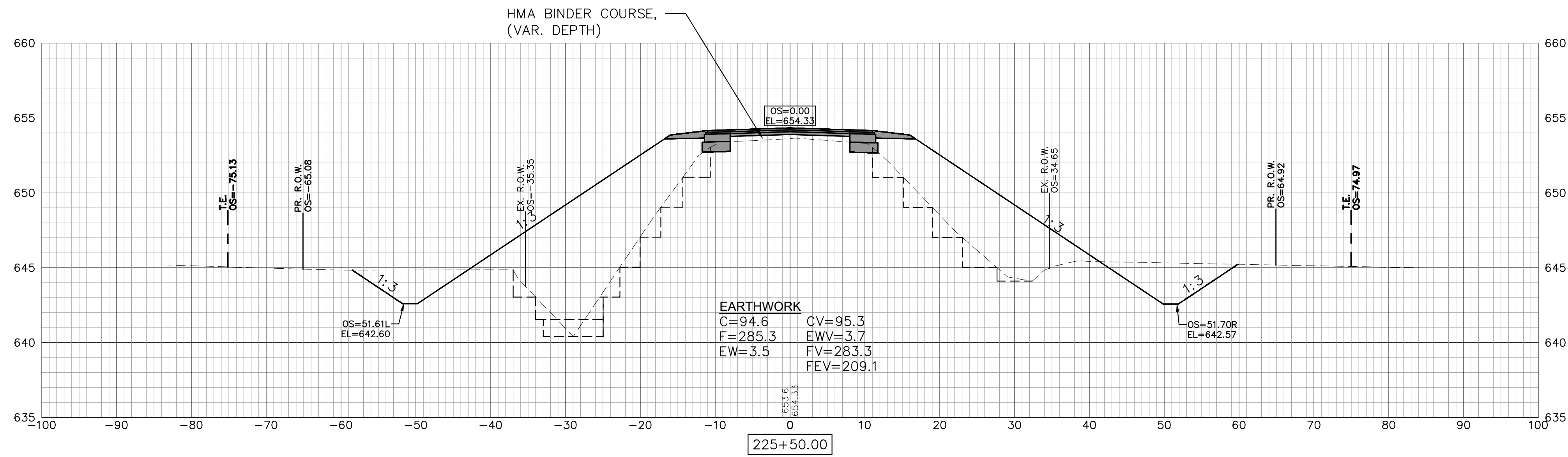
DESIGNED — ECM/AAG
 DRAWN — TAB
 CHECKED — ECM/AAG
 DATE — 10-05-20

REVISED —
 REVISED —
 REVISED —
 REVISED —

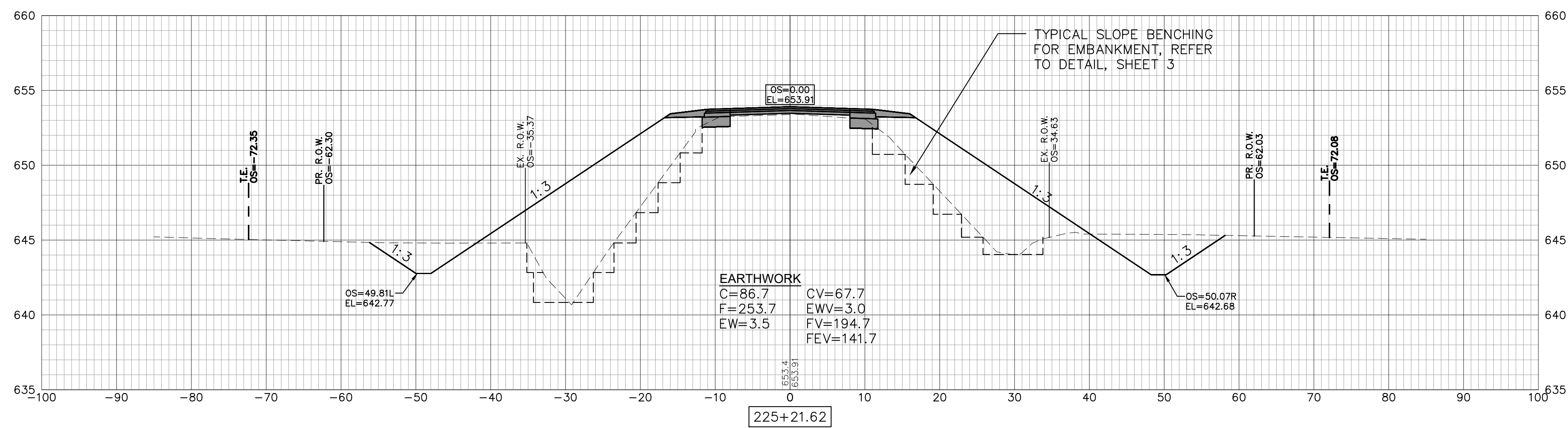
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY CROSS SECTIONS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR**

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	16
ILLINOIS			CONTRACT NO. 89759	

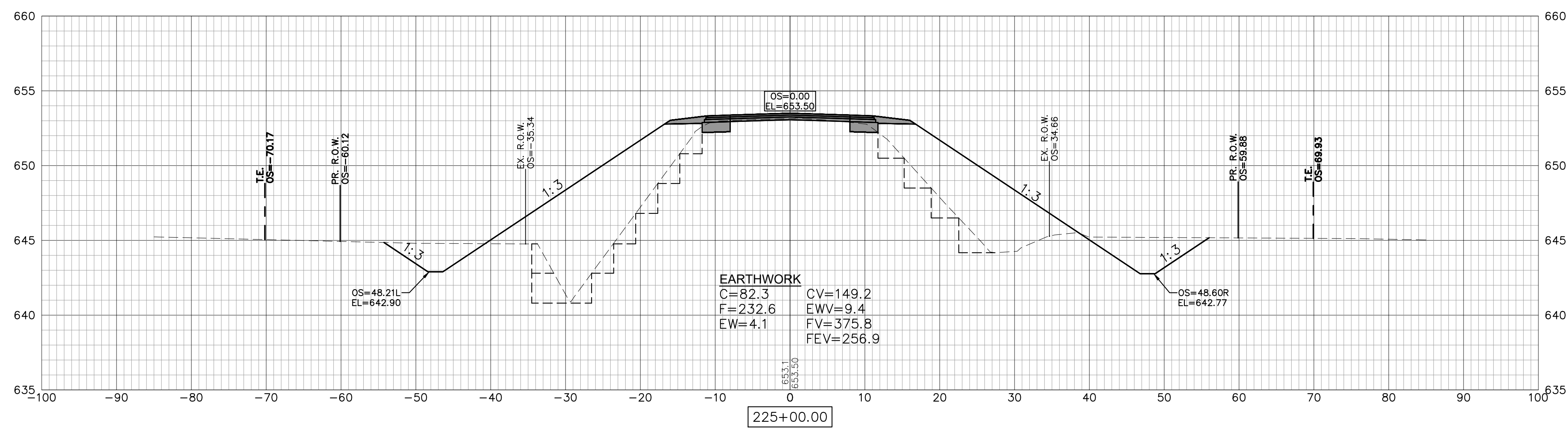


EARTHWORK
 C=94.6 CV=95.3
 F=285.3 EWV=3.7
 EW=3.5 FV=283.3
 FEV=209.1



EARTHWORK
 C=86.7 CV=67.7
 F=253.7 EWV=3.0
 EW=3.5 FV=194.7
 FEV=141.7

EARTHWORK
 C= EARTH EXCAVATION (SQ. FT.)
 F= EMBANKMENT (SQ. FT.)
 EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)



EARTHWORK
 C=82.3 CV=149.2
 F=232.6 EWV=9.4
 EW=4.1 FV=375.8
 FEV=256.9

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 IL DESIGN FIRM NO. 184-000843



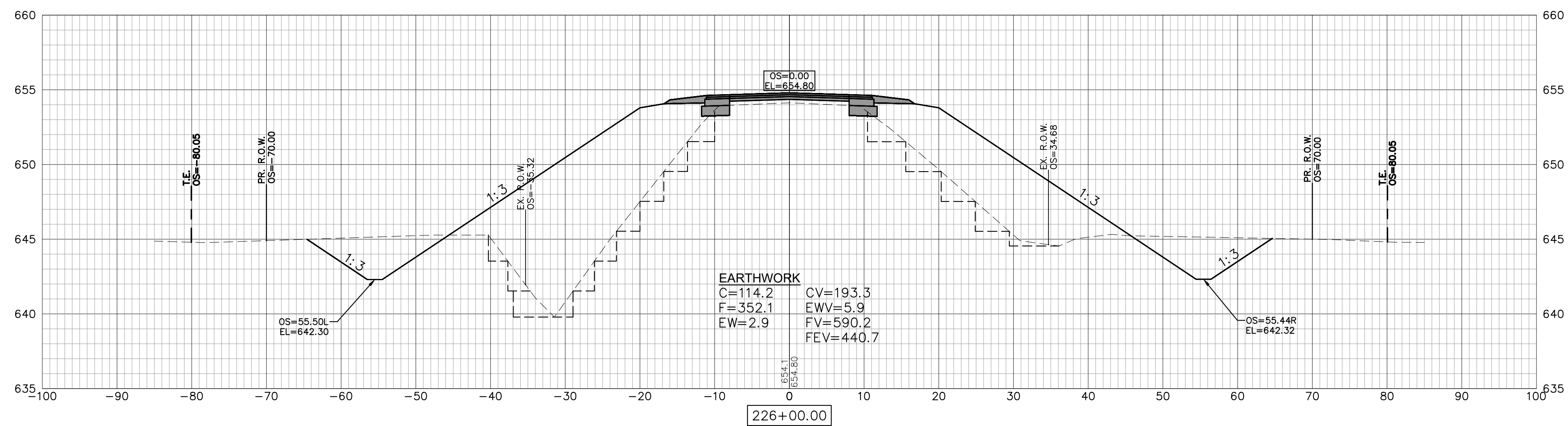
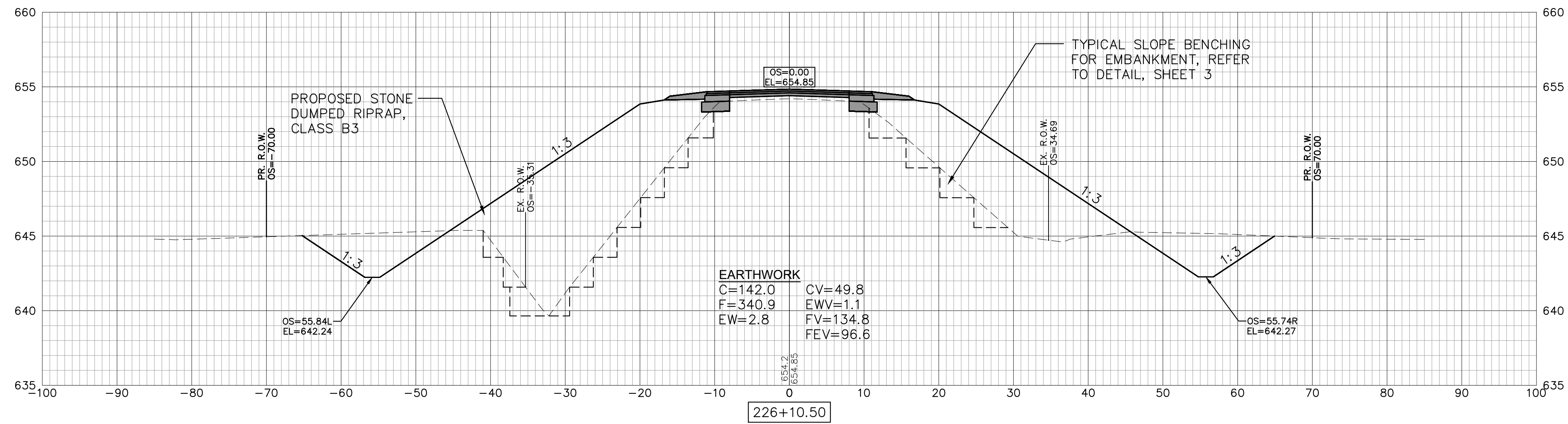
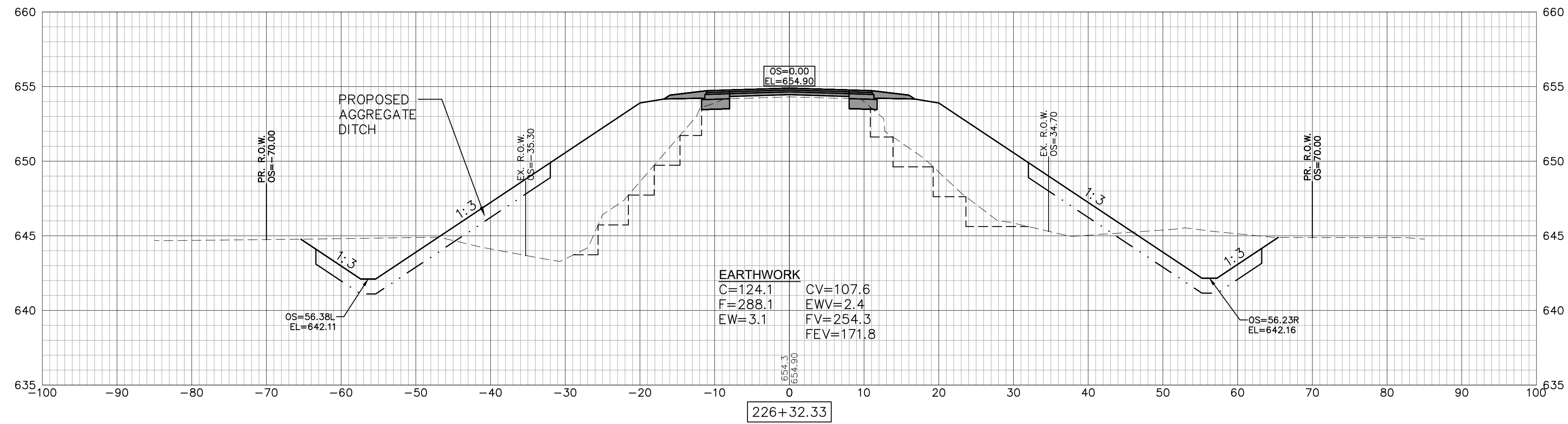
DESIGNED - ECM/AAG
 DRAWN - TAB
 CHECKED - ECM/AAG
 DATE - 10-05-20

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

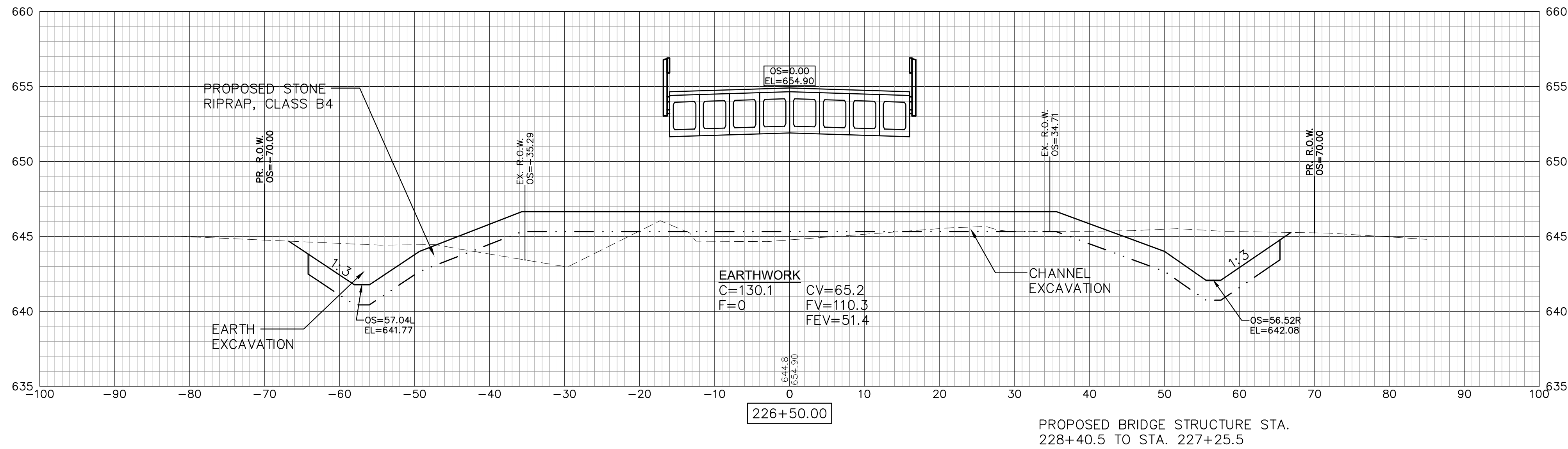
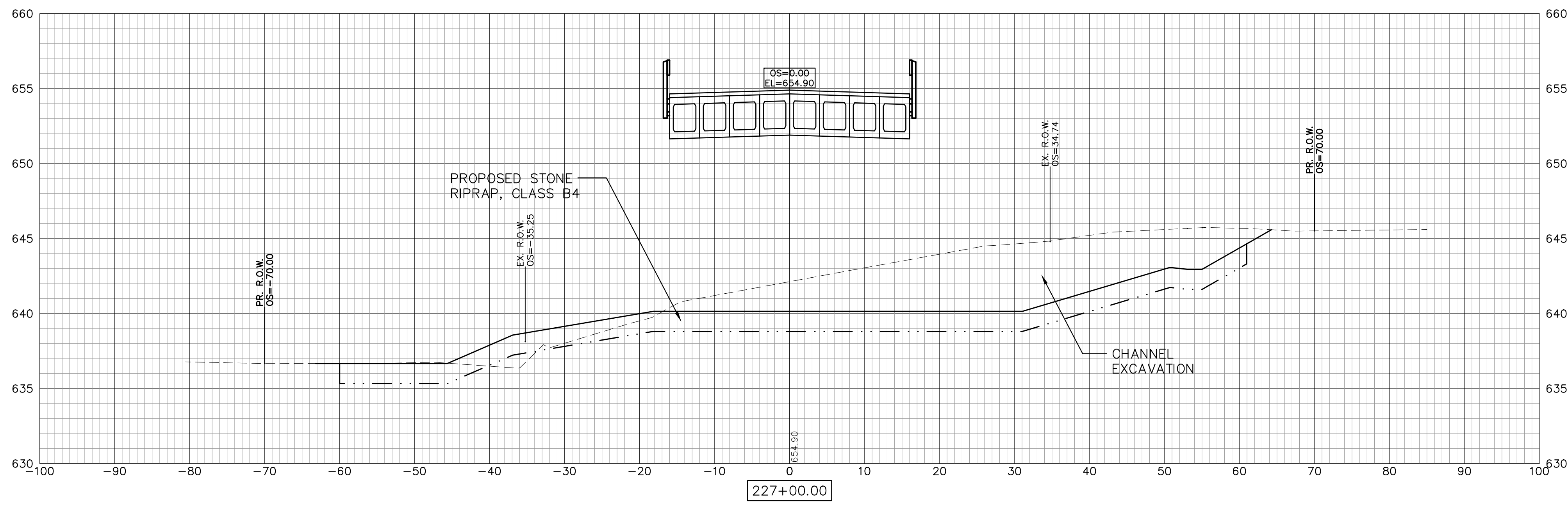
ROADWAY CROSS SECTIONS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	17
ILLINOIS			CONTRACT NO. 89759	

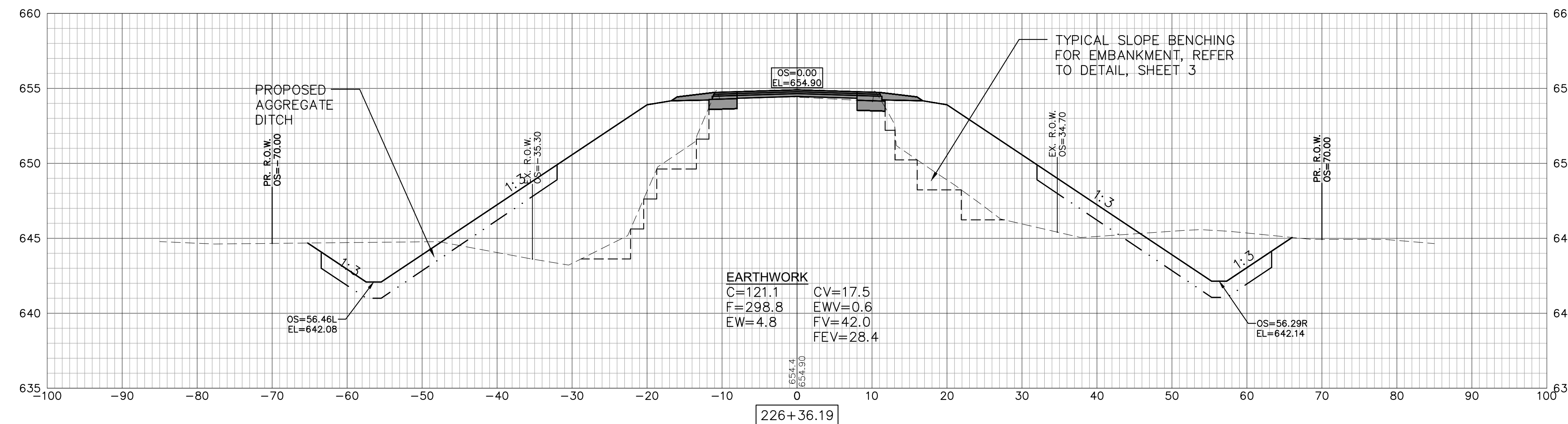


- EARTHWORK**
- C= EARTH EXCAVATION (SQ. FT.)
 - F= EMBANKMENT (SQ. FT.)
 - EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 - CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 - EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 - FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 - FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)





- EARTHWORK**
 C= EARTH EXCAVATION (SQ. FT.)
 F= EMBANKMENT (SQ. FT.)
 EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 EWW= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)



FILE NAME = 180036613-MCD-CNTY-BRG-PLOT.dwg
 IL DESIGN FIRM NO. 184-000843

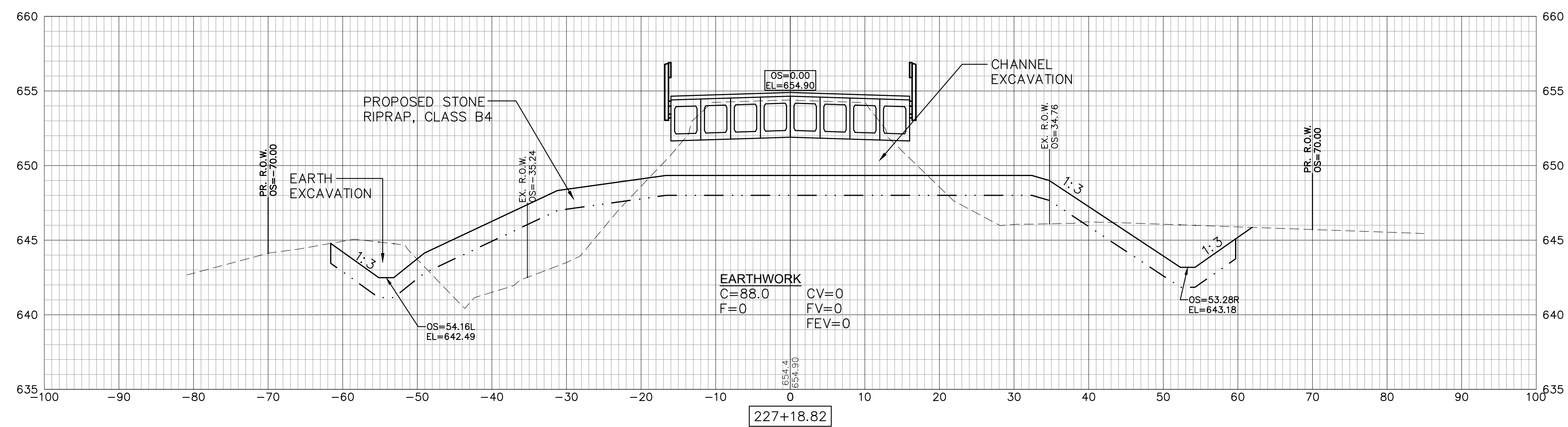
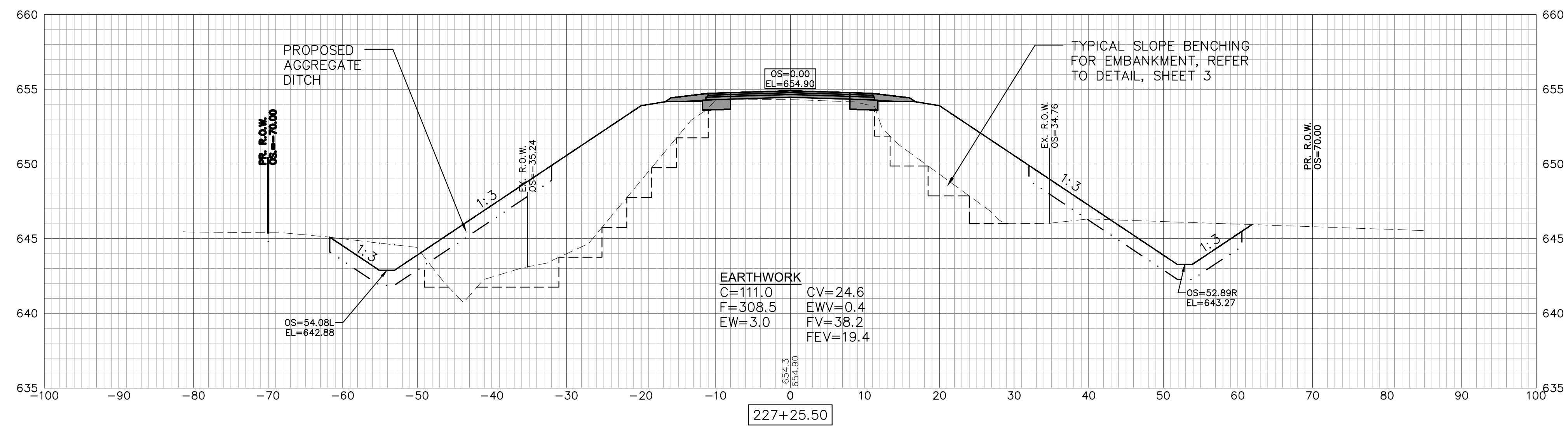
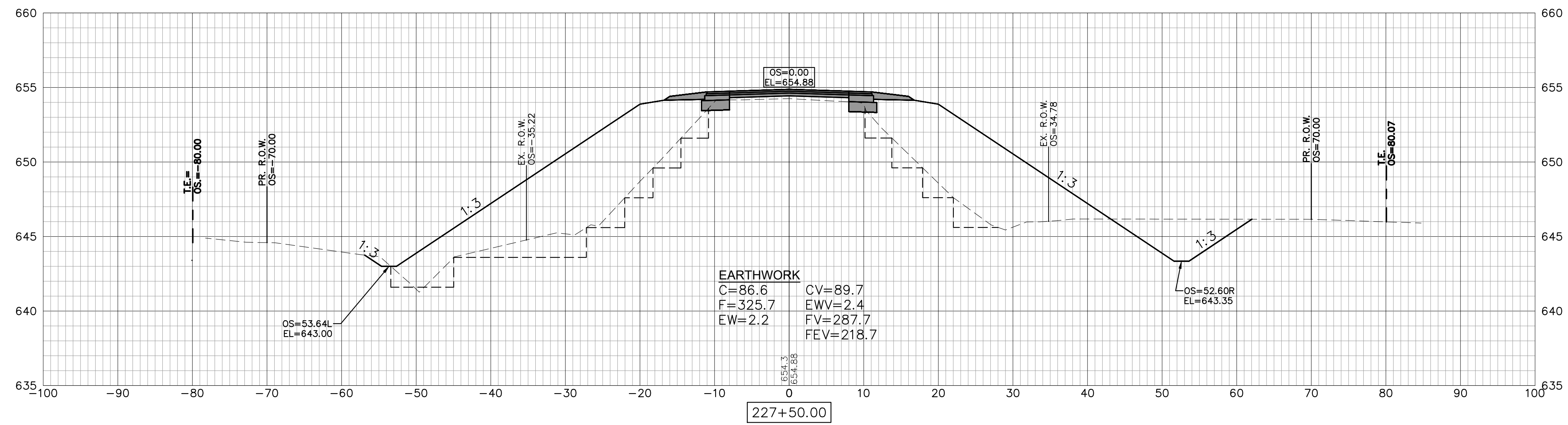


DESIGNED	ECM/AAG	REVISED	-
DRAWN	TAB	REVISED	-
CHECKED	ECM/AAG	REVISED	-
DATE	10-05-20	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	19
ILLINOIS			CONTRACT NO. 89759	



- EARTHWORK**
 C= EARTH EXCAVATION (SQ. FT.)
 F= EMBANKMENT (SQ. FT.)
 EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)

FILE NAME = 180036613-MCD-CNTY-BRG-PL0T.dwg
 IL DESIGN FIRM NO. 184-000843



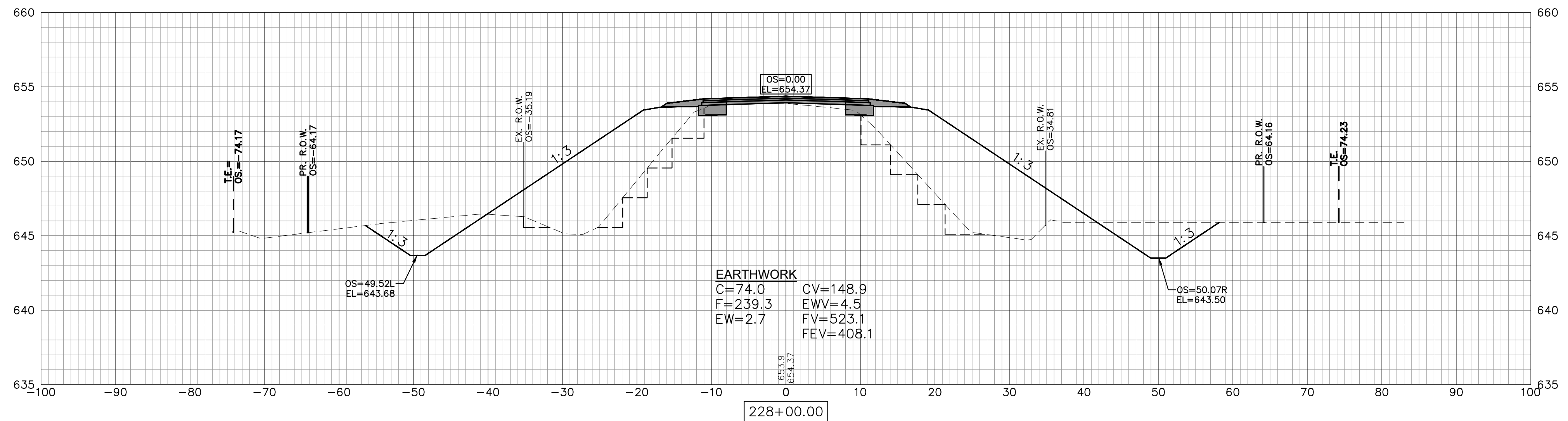
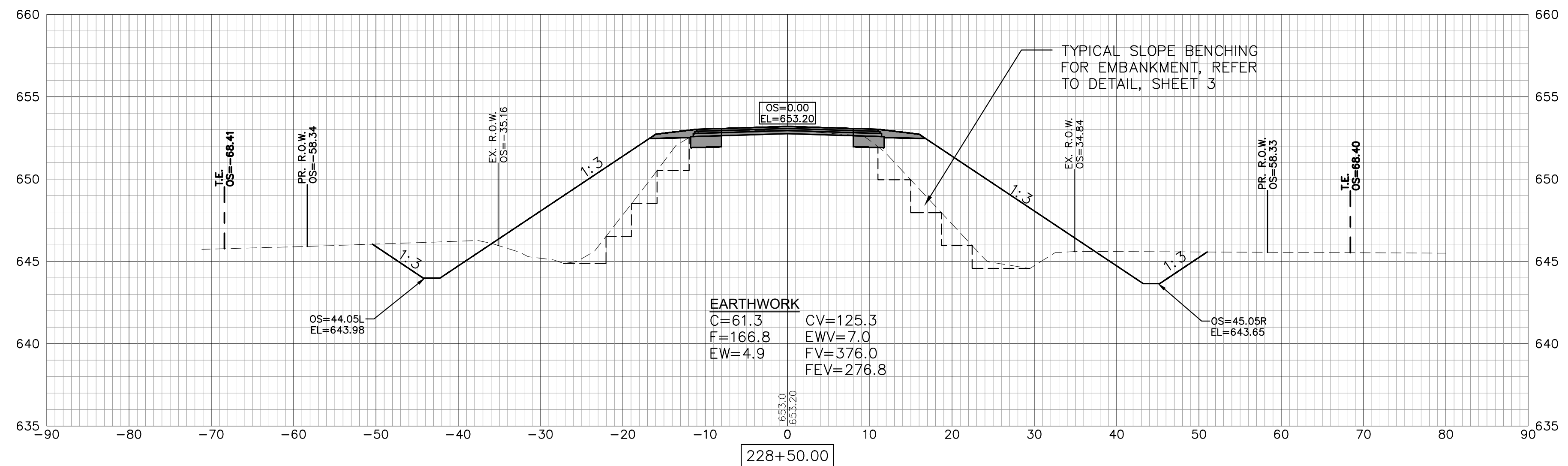
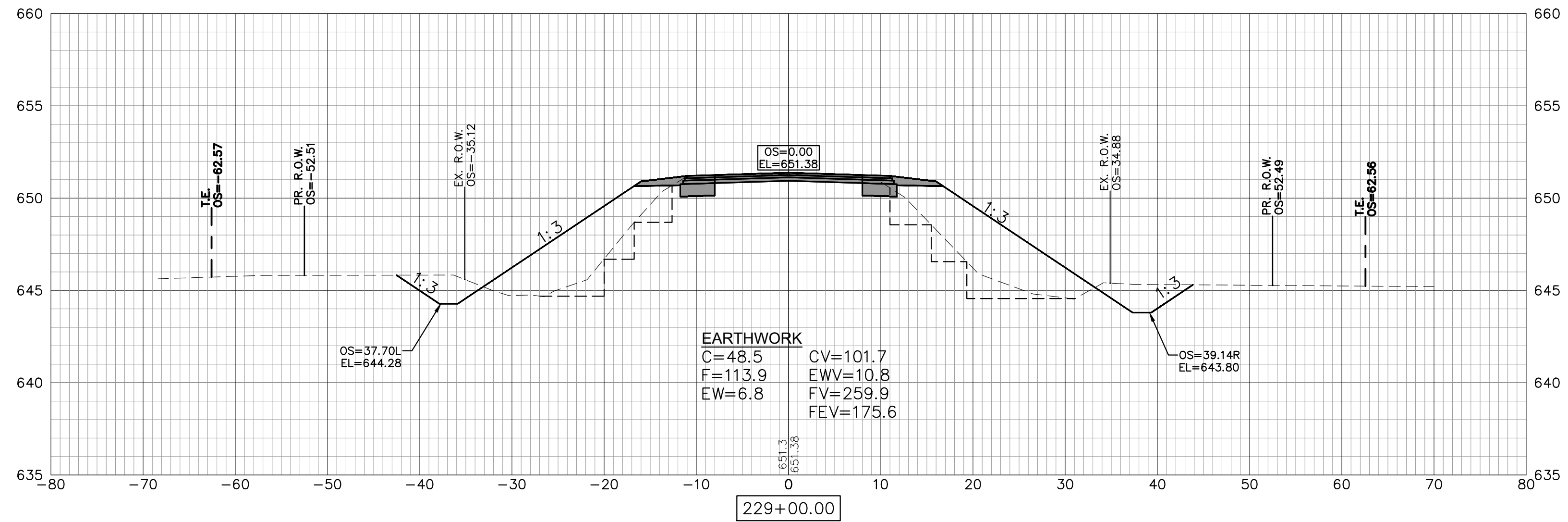
DESIGNED - ECM/AAG
 DRAWN - TAB
 CHECKED - ECM/AAG
 DATE - 10-05-20

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS
 COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
 SECTION 18-00300-00-BR

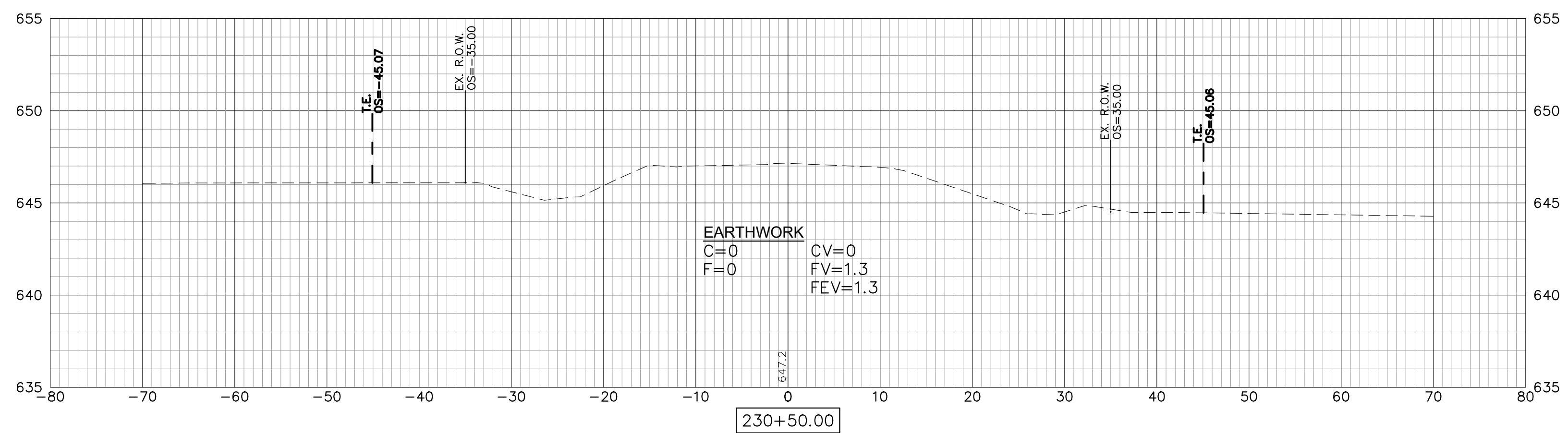
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	20
CONTRACT NO. 89759				
ILLINOIS				



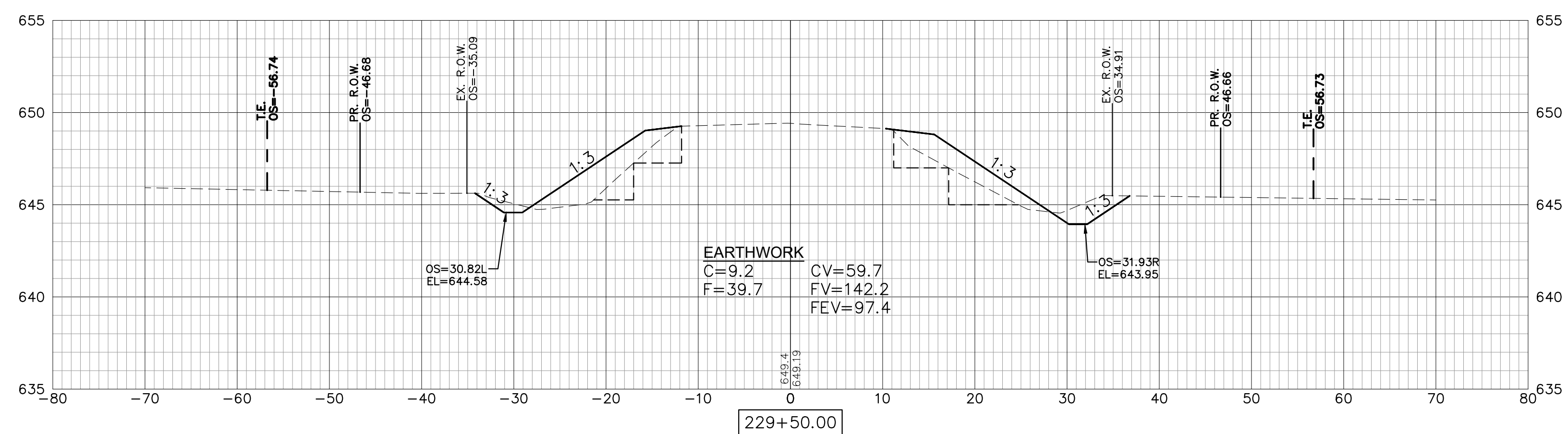
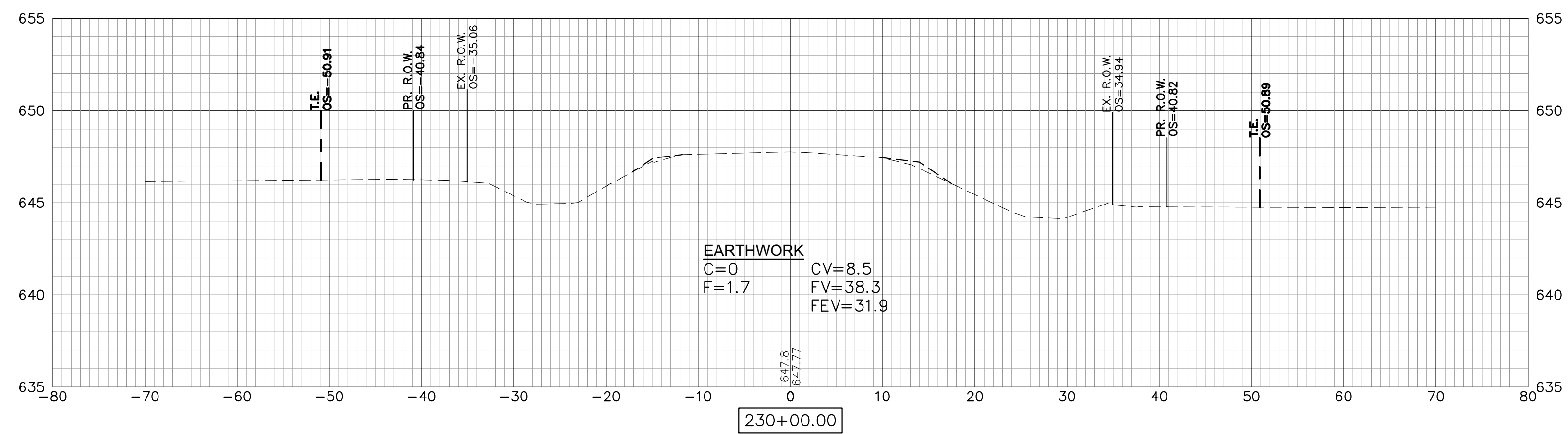
- EARTHWORK**
 C= EARTH EXCAVATION (SQ. FT.)
 F= EMBANKMENT (SQ. FT.)
 EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)



CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	21
CONTRACT NO. 89759				
ILLINOIS				



PROPOSED IMPROVEMENT
ENDS STA. 230+40



- EARTHWORK**
- C= EARTH EXCAVATION (SQ. FT.)
 - F= EMBANKMENT (SQ. FT.)
 - EW= EARTH EXCAVATION (WIDENING) (SQ. FT.)
 - CV= EARTH EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)
 - EWV= EARTH EXCAVATION (WIDENING) BETWEEN PREVIOUS SECTION (CU. YD.)
 - FV= EMBANKMENT BETWEEN PREVIOUS SECTION (CU. YD.)
 - FEV= FURNISHED EXCAVATION BETWEEN PREVIOUS SECTION (CU. YD.)

FILE NAME = 180036613-MCD-CNTY-BRG-PLOT.dwg
IL DESIGN FIRM NO. 184-000843



DESIGNED	ECM/AAG	REVISED	-
DRAWN	TAB	REVISED	-
CHECKED	ECM/AAG	REVISED	-
DATE	10-05-20	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY CROSS SECTIONS
COUNTY HWY 5 OVER NORTH FORK OF LAMOINE RIVER
SECTION 18-00300-00-BR**

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	18-00300-00-BR	McDONOUGH	22	22
CONTRACT NO. 89759				
ILLINOIS				