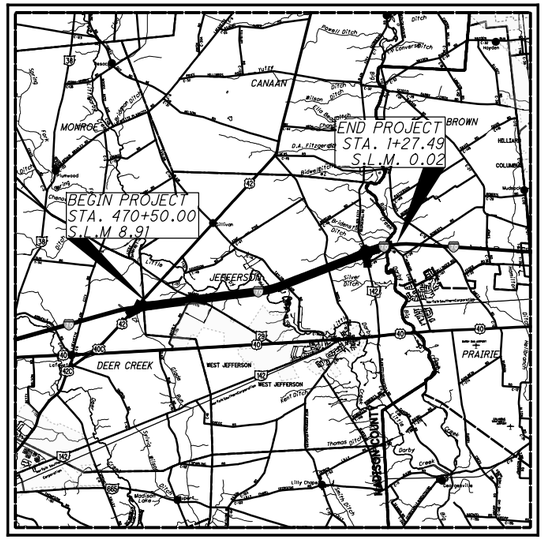
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MAD-70-8.62

DEER CREEK TOWNSHIP
JEFFERSON TOWNSHIP
MADISON COUNTY



LOCATION MAP

LATITUDE: 39°57'44" LONGITUDE: 83°19'06"

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2020)	69,000
DESIGN YEAR ADT (2040)	75,000
DESIGN HOURLY VOLUME (2040)	7,500
DIRECTIONAL DISTRIBUTION	57%
TRUCKS (24 HOUR B&C)	32%
DESIGN SPEED	70 MPH
LEGAL SPEED	70 MPH
DESIGN FUNCTIONAL CLASSIFICATION: RURAL INTERSTATE	
NHS PROJECT	YES

DESIGN EXCEPTIONS

SUPERELEVATION SHEETS 5 & 8 11/6/2018

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS
BEFORE YOU DIG.

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

PLAN PREPARED BY:

E.L. ROBINSON ENGINEERING
1801 Watermark Drive, Suite 310 • Columbus, Ohio 43215
www.elrobinsonengineering.com

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PROJECT DESCRIPTION

REPLACEMENT OF 6.95 MILES OF EXISTING PAVEMENT ON I.R. 70 AND WIDENING OF INSIDE SHOULDERS. MINOR WORK ON MAD-70-12.17 L/R & MAD-70-15.56 L/R AND REPLACMENT OF APPROACH SLABS. MINOR WORK ON MAD-70-1263 & MAD-70 1386 AND APPROACH SLABS. PLACEMENT OF ADDITIONAL PAVEMENT AT US42/SR29 INTERSECTION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	152.7 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ENGINEERS SEAL:

SIGNED:
DATE:

ENGINEERS SEAL:

STATE OF OHIO
MATTHEW J. CORNETT
E-76213
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Matthew Cornett
DATE: 3/20/2019

STANDARD CONSTRUCTION DRAWINGS

AS-1-15	7/17/15	HW-2.1	7/21/17	RM-4.5	7/21/17	TC-65.10	1/17/14
BR-1-13	7/19/13	HW-2.2	7/21/17	RM-4.6	7/19/13	TC-65.11	7/21/17
BP-2.1	7/17/15	MH-1.2	1/15/16			TC-71.10	1/19/18
BP-2.2	7/18/08			TC-7.65	1/15/19	TC-72.20	7/15/16
BP-2.5	7/19/13	DM-1.1	7/21/17	TC-21.10	7/21/17		
BP-3.1	7/18/14			TC-22.20	1/17/14	ITS-10.10	7/17/15
BP-5.1	7/19/13	MGS-1.1	1/19/18	TC-41.10	7/19/13	ITS-10.11	1/19/18
BP-6.1	7/19/13	MGS-2.1	1/19/18	TC-41.15	10/18/13	ITS-12.10	1/19/18
BP-9.1	1/21/17	MGS-3.1	1/19/18	TC-41.20	10/18/13	ITS-14.10	7/17/15
		MGS-3.2	1/18/13	TC-41.30	10/18/13	ITS-15.11	7/17/15
F-2.1	7/19/13	MGS-4.2	7/19/13	TC-42.10	10/18/13	ITS-50.10	1/19/18
F-3.3	7/19/13	MGS-4.3	1/19/18	TC-42.20	10/18/13		
F-3.4	7/19/13	MGS-5.2	7/15/16	TC-52.10	10/18/13		
		MGS-5.3	7/15/16	TC-52.20	10/18/13		
CB-3.1	1/15/16	MGS-6.1	1/19/18	TC-61.10	1/17/14		
		MGS-6.2	1/19/18	TC-61.30	1/20/17		

SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
800-2016	4/20/18	WATERWAY PERMIT
804	1/20/17	8/10/18
806	3/2/15	
808	1/20/17	
809	1/19/18	
821	4/20/12	
832	1/17/14	
848	1/20/17	
875	1/17/14	
896	7/15/16	
904	7/15/16	
908	10/20/17	
921	4/20/12	
996	7/15/16	

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

FEDERAL PROJECT NO. E180347
PID NO. 107109
CONSTRUCTION PROJECT NO. 183006
RAILROAD INVOLVEMENT NONE

MAD-70-8.62

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NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 100 200 400

CALCULATED TDP CHECKED MJC

EX. US 42 RAMP A

(A1) P.I. Sta. 450+56.16
Δ = 24° 07′ 47″ (LT)
Dc = 4° 00′ 00″
R = 1,432.39′
T = 306.16′
L = 603.24′
E = 32.35′
C = 598.79′
C.B. = N 68° 11′ 13″ E

(A2) P.I. Sta. 459+78.17
Δ = 57° 02′ 50″ (RT)
Dc = 15° 00′ 00″
R = 381.97′
T = 207.60′
L = 380.31′
E = 52.77′
C = 364.80′
C.B. = N 84° 38′ 44″ E

EX. US 42 RAMP D

(D1) P.I. Sta. 443+03.56
Δ = 10° 58′ 10″ (RT)
Dc = 2° 00′ 00″
R = 2,864.79′
T = 275.08′
L = 548.47′
E = 13.18′
C = 547.63′
C.B. = N 84° 58′ 02″ E

(D2) P.I. Sta. 447+63.98
Δ = 22° 09′ 46″ (RT)
Dc = 6° 00′ 00″
R = 954.93′
T = 187.03′
L = 369.38′
E = 18.14′
C = 367.08′
C.B. = S 78° 28′ 00″ E

EX. US 42 RAMP B

(B1) P.I. Sta. 464+04.88
Δ = 21° 49′ 41″ (LT)
Dc = 6° 00′ 00″
R = 954.93′
T = 184.13′
L = 363.80′
E = 17.59′
C = 361.60′
C.B. = S 78° 18′ 29″ E

(B2) P.I. Sta. 471+16.29
Δ = 5° 05′ 03″ (LT)
Dc = 1° 30′ 00″
R = 3,819.72′
T = 169.58′
L = 338.94′
E = 3.76′
C = 338.83′
C.B. = N 88° 14′ 09″ E

(B3) P.I. Sta. 476+06.93
Δ = 3° 12′ 43″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 321.28′
L = 642.39′
E = 4.50′
C = 642.31′
C.B. = N 84° 05′ 16″ E

PROP. US 42 RAMP B

(B1) P.I. Sta. 464+05.34
Δ = 21° 50′ 05″ (LT)
Dc = 6° 00′ 00″
R = 954.93′
T = 184.19′
L = 363.91′
E = 17.60′
C = 361.71′
C.B. = S 78° 18′ 18″ E
eMAX = 0.051

(B2) P.I. Sta. 472+24.02
Δ = 8° 17′ 46″ (LT)
Dc = 1° 24′ 00″
R = 4,092.56′
T = 296.81′
L = 592.58′
E = 10.75′
C = 592.06′
C.B. = N 86° 37′ 47″ E
eMAX = 0.051

EX. US 42 RAMP C

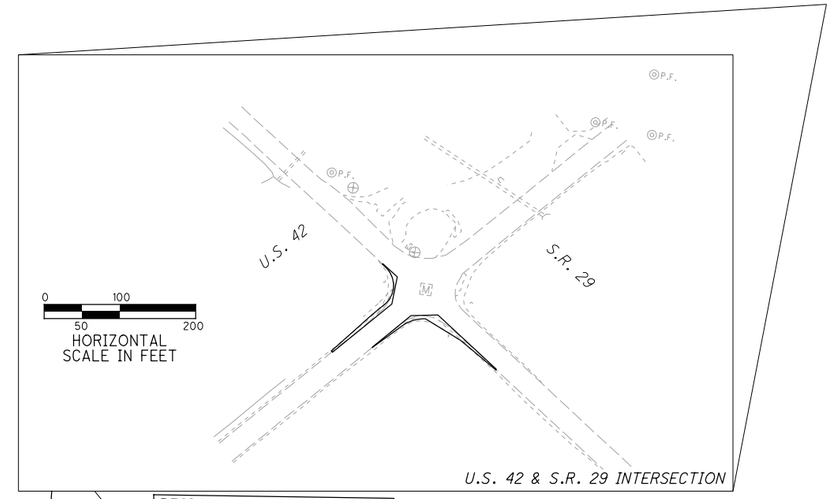
(C1) P.I. Sta. 448+69.05
Δ = 15° 40′ 00″ (RT)
Dc = 6° 00′ 00″
R = 954.93′
T = 131.37′
L = 261.11′
E = 8.99′
C = 260.30′
C.B. = N 53° 11′ 47″ E

(C2) P.I. Sta. 462+99.34
Δ = 20° 15′ 41″ (RT)
Dc = 4° 00′ 00″
R = 1,432.39′
T = 255.94′
L = 506.53′
E = 22.69′
C = 503.90′
C.B. = N 71° 09′ 38″ E

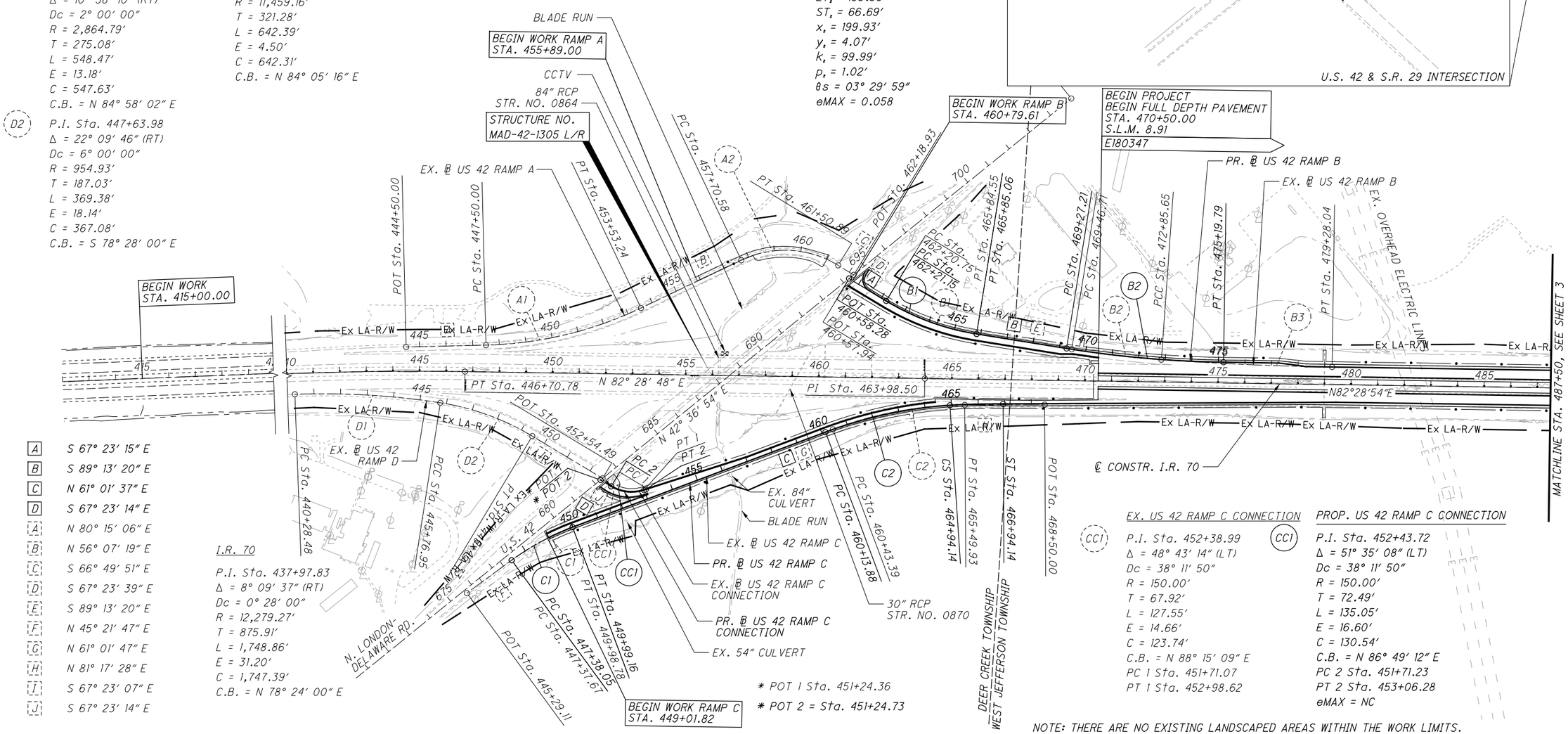
PROP. US 42 RAMP C

(C1) P.I. Sta. 448+69.42
Δ = 15° 40′ 00″ (RT)
Dc = 6° 00′ 00″
R = 954.93′
T = 131.37′
L = 261.11′
E = 8.99′
C = 260.30′
C.B. = N 53° 11′ 38″ E
eMAX = 0.061

(C2) P.I. Sta. 463+10.01
Δ = 20° 18′ 31″ (RT)
Dc = 3° 30′ 00″
R = 1,637.02′
T_1 = 296.13′
Δ_c = 16° 48′ 32″ (RT)
L_c = 480.26′
C = 478.53′
C.B. = N 69° 25′ 54″ E
T_2 = 390.44′
L_1 = 200.00′
LT_2 = 133.36′
ST_2 = 66.69′
x_2 = 199.93′
y_2 = 4.07′
k_2 = 99.99′
p_2 = 1.02′
θs = 03° 29′ 59″
eMAX = 0.058



U.S. 42 & S.R. 29 INTERSECTION



A	S 67° 23′ 15″ E
B	S 89° 13′ 20″ E
C	N 61° 01′ 37″ E
D	S 67° 23′ 14″ E
A	N 80° 15′ 06″ E
B	N 56° 07′ 19″ E
C	S 66° 49′ 51″ E
D	S 67° 23′ 39″ E
E	S 89° 13′ 20″ E
F	N 45° 21′ 47″ E
G	N 61° 01′ 47″ E
H	N 81° 17′ 28″ E
I	S 67° 23′ 07″ E
J	S 67° 23′ 14″ E

I.R. 70

P.I. Sta. 437+97.83
Δ = 8° 09′ 37″ (RT)
Dc = 0° 28′ 00″
R = 12,279.27′
T = 875.91′
L = 1,748.86′
E = 31.20′
C = 1,747.39′
C.B. = N 78° 24′ 00″ E

* POT 1 Sta. 451+24.36

* POT 2 = Sta. 451+24.73

EX. US 42 RAMP C CONNECTION

(CC1) P.I. Sta. 452+38.99
Δ = 48° 43′ 14″ (LT)
Dc = 38° 11′ 50″
R = 150.00′
T = 67.92′
L = 127.55′
E = 14.66′
C = 123.74′
C.B. = N 88° 15′ 09″ E
PC 1 Sta. 451+71.07
PT 1 Sta. 452+98.62

PROP. US 42 RAMP C CONNECTION

(CC1) P.I. Sta. 452+43.72
Δ = 51° 35′ 08″ (LT)
Dc = 38° 11′ 50″
R = 150.00′
T = 72.49′
L = 135.05′
E = 16.60′
C = 130.54′
C.B. = N 86° 49′ 12″ E
PC 2 Sta. 451+71.23
PT 2 Sta. 453+06.28
eMAX = NC

NOTE: THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN
BEGIN PROJECT TO STA. 487+50.00

MAD-70-8.62

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NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 100 200 400

CALCULATED TDP
CHECKED MJC

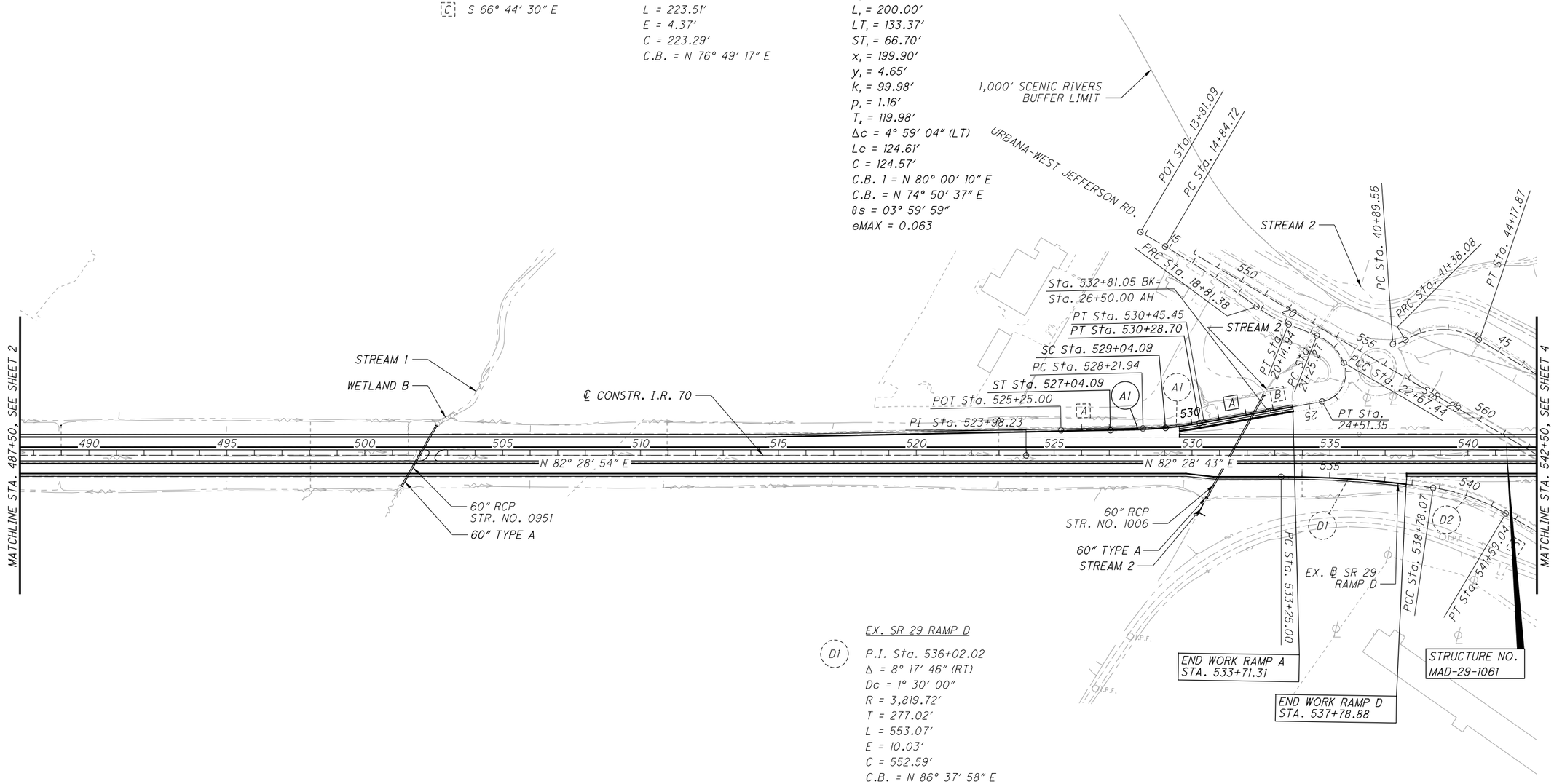
[A] N 72° 21′ 05″ E
[A] N 81° 17′ 28″ E
[B] N 72° 21′ 05″ E
[C] S 66° 44′ 30″ E

EX. SR 29 RAMP A

(A1)
P.I. Sta. 529+33.92
Δ = 8° 56′ 23″ (LT)
Dc = 3° 59′ 59″
R = 1,432.54′
T = 111.98′
L = 223.51′
E = 4.37′
C = 223.29′
C.B. = N 76° 49′ 17″ E

PROP. SR 29 RAMP A

(A1)
P.I. STA. 529+09.26
Δ = 8° 59′ 03″ (LT)
Dc = 4° 00′ 00″
R = 1,432.39′
T, = 205.17′
L, = 200.00′
LT, = 133.37′
ST, = 66.70′
x, = 199.90′
y, = 4.65′
k, = 99.98′
p, = 1.16′
T, = 119.98′
Δc = 4° 59′ 04″ (LT)
Lc = 124.61′
C = 124.57′
C.B. 1 = N 80° 00′ 10″ E
C.B. = N 74° 50′ 37″ E
θs = 03° 59′ 59″
eMAX = 0.063



EX. SR 29 RAMP D

(D1)
P.I. Sta. 536+02.02
Δ = 8° 17′ 46″ (RT)
Dc = 1° 30′ 00″
R = 3,819.72′
T = 277.02′
L = 553.07′
E = 10.03′
C = 552.59′
C.B. = N 86° 37′ 58″ E
eMAX = MATCH EX.

(D2)
P.I. Sta. 540+20.38
Δ = 22° 28′ 39″ (RT)
Dc = 8° 00′ 00″
R = 716.20′
T = 142.31′
L = 280.97′
E = 14.00′
C = 279.17′
C.B. = S 77° 58′ 50″ E

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN
STA. 487+50.00 TO STA. 542+50.00

MAD-70-8.62

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NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 100 200 400

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN
STA. 542+50.00 TO STA. 597+50.00

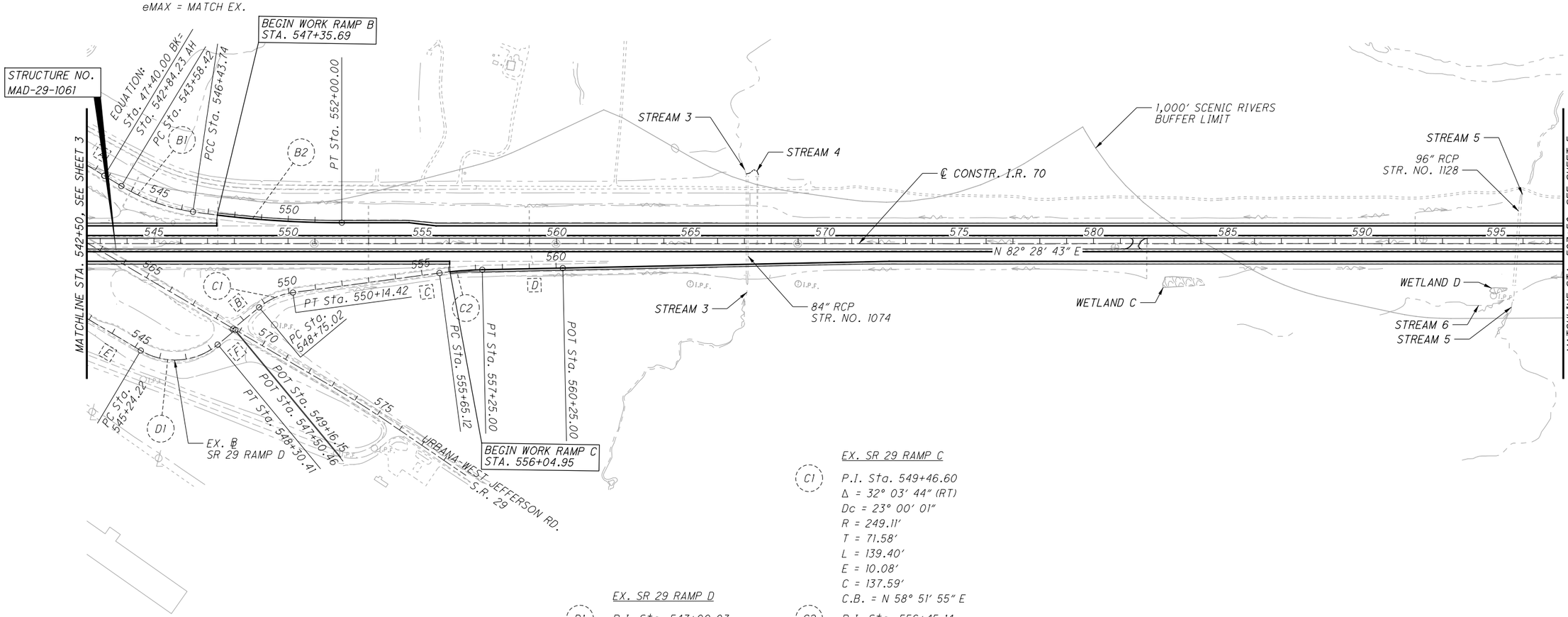
MAD-70-8.62

EX. SR 29 RAMP B

B1
P.I. Sta. 545+03.00
Δ = 22° 49′ 33″ (LT)
Dc = 8° 00′ 00″
R = 716.20′
T = 144.58′
L = 285.32′
E = 14.45′
C = 283.44′
C.B. = S 77° 45′ 32″ E

B2
P.I. Sta. 549+22.36
Δ = 8° 20′ 38″ (LT)
Dc = 1° 30′ 00″
R = 3,819.72′
T = 278.62′
L = 556.26′
E = 10.15′
C = 555.77′
C.B. = N 86° 39′ 23″ E
eMAX = MATCH EX.

A S 66° 20′ 45″ E
B N 42° 50′ 03″ E
C N 74° 53′ 47″ E
D N 81° 17′ 30″ E
E S 66° 44′ 30″ E
F N 42° 50′ 03″ E



EX. SR 29 RAMP C

C1
P.I. Sta. 549+46.60
Δ = 32° 03′ 44″ (RT)
Dc = 23° 00′ 01″
R = 249.11′
T = 71.58′
L = 139.40′
E = 10.08′
C = 137.59′
C.B. = N 58° 51′ 55″ E

C2
P.I. Sta. 556+45.14
Δ = 6° 23′ 43″ (RT)
Dc = 4° 00′ 00″
R = 1,432.39′
T = 80.02′
L = 159.88′
E = 2.23′
C = 159.80′
C.B. = N 78° 05′ 38″ E
eMAX = MATCH EX.

EX. SR 29 RAMP D

D1
P.I. Sta. 547+00.03
Δ = 70° 25′ 27″ (LT)
Dc = 23° 00′ 01″
R = 249.11′
T = 175.81′
L = 306.19′
E = 55.79′
C = 287.28′
C.B. = N 78° 02′ 46″ E

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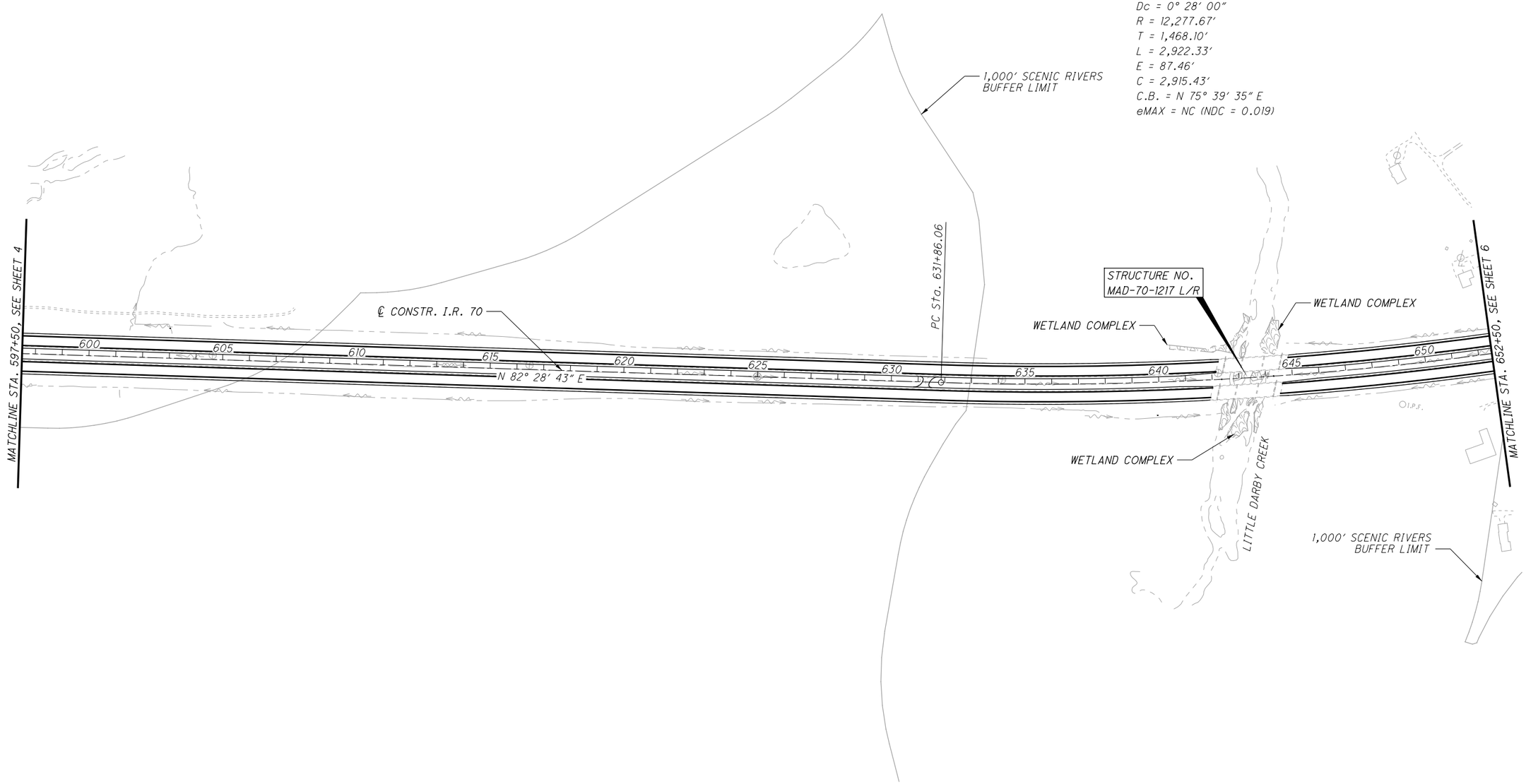
NO.	DATE	DESCRIPTION

ISSUE RECORD

I.R. 70

P.I. Sta. 646+54.16
Δ = 13° 38′ 15″ (LT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 1,468.10′
L = 2,922.33′
E = 87.46′
C = 2,915.43′
C.B. = N 75° 39′ 35″ E
eMAX = NC (NDC = 0.019)



N

HORIZONTAL SCALE IN FEET
0 100 200 400

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN
STA. 597+50.00 TO STA. 652+50.00

MAD-70-8.62

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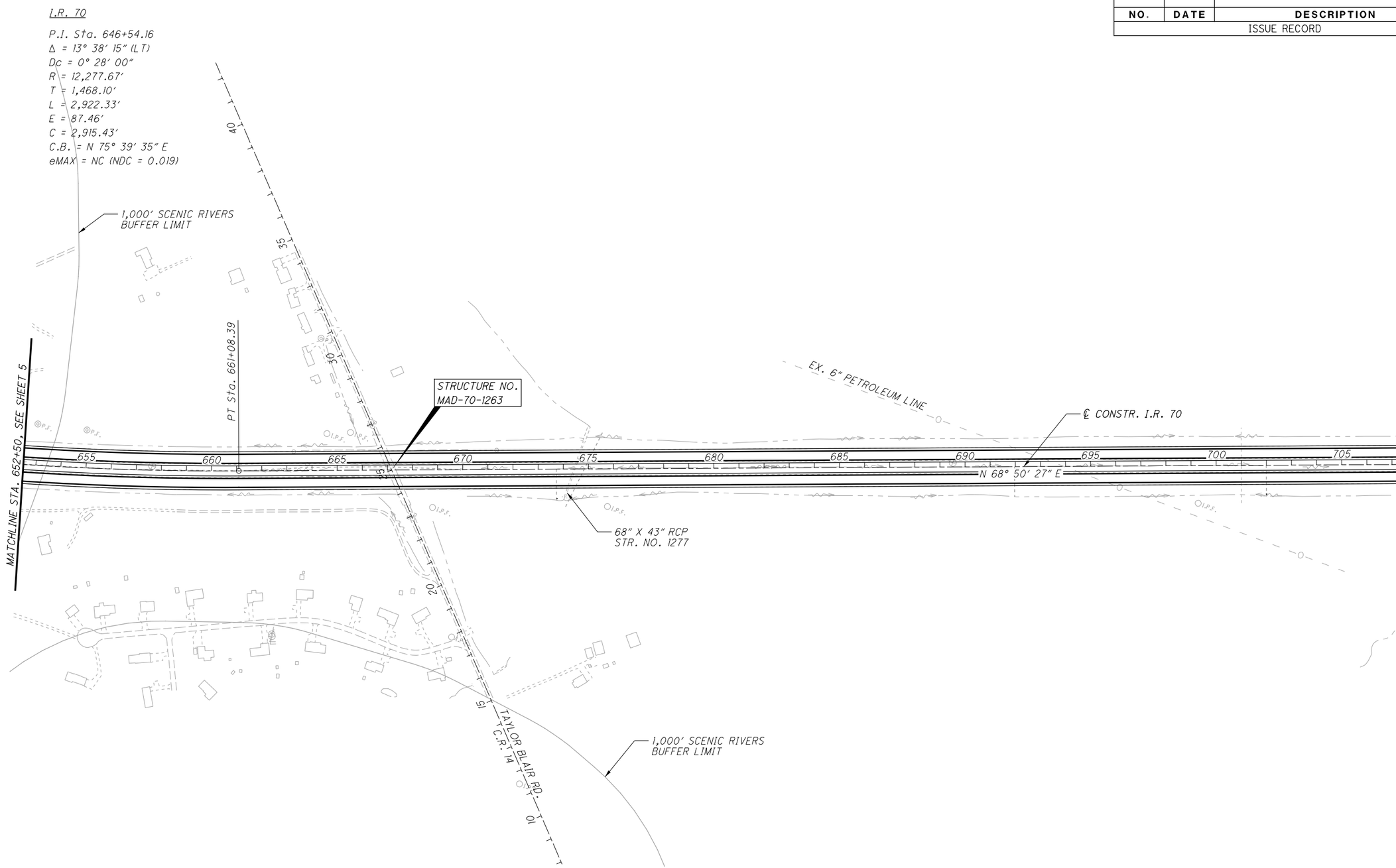
ISSUE RECORD



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 100 200 400

CALCULATED TDP
CHECKED MJC

SCHEMATIC PLAN
STA. 652+50.00 TO STA. 707+50.00

MAD-70-8.62

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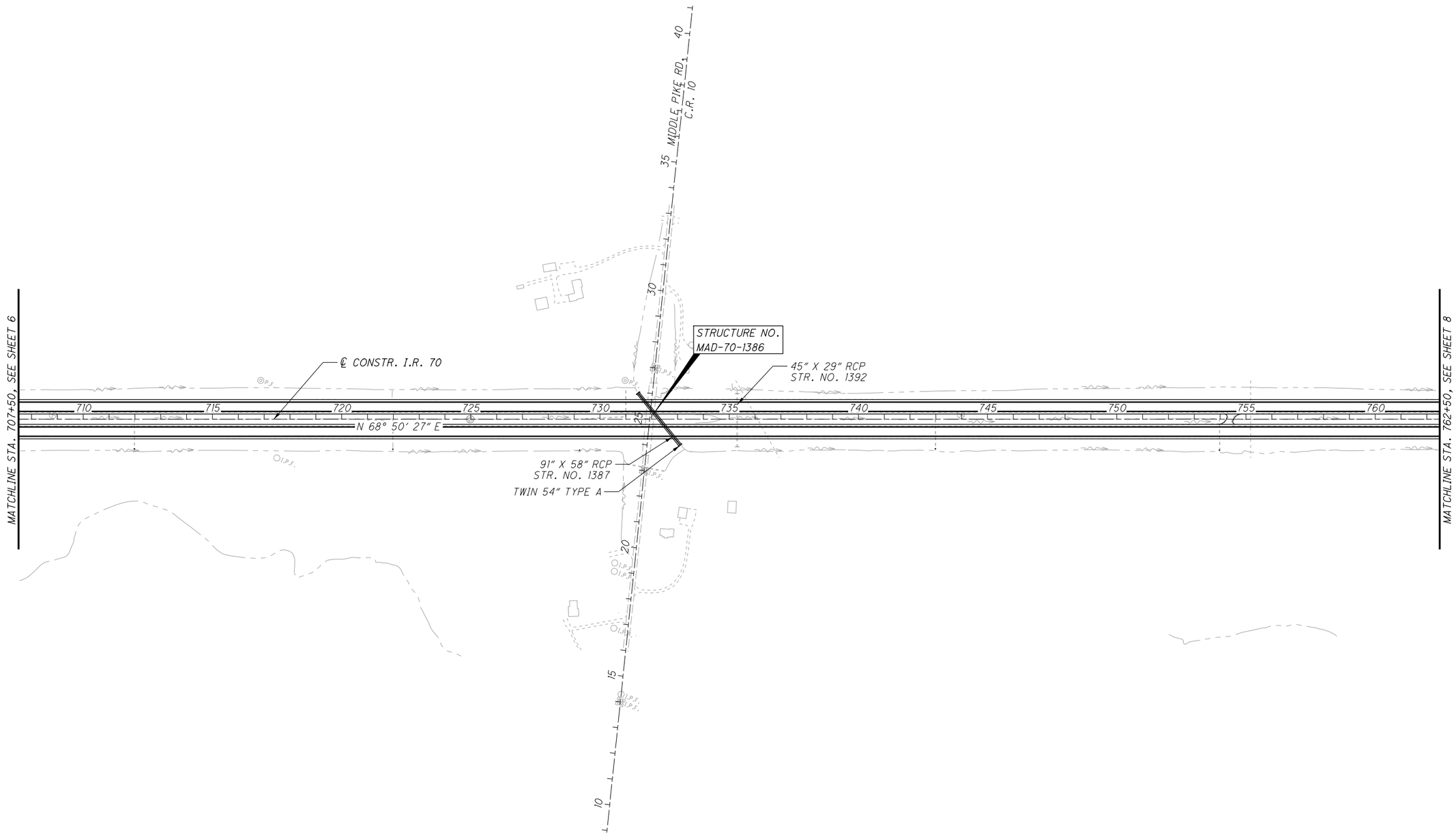
ISSUE RECORD



HORIZONTAL SCALE IN FEET
0 100 200 400

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN
STA. 707+50.00 TO STA. 762+50.00

MAD-70-8.62

7
470

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NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 100 200 400

CALCULATED TDP CHECKED MJC

EX. SR 142 RAMP A

(A1) P.I. Sta. 782+04.79
Δ = 39° 09′ 59″ (LT)
Dc = 8° 00′ 00″
R = 716.20′
T = 254.79′
L = 489.58′
E = 43.97′
C = 480.11′
C.B. = N 48° 03′ 51″ E

(A2) P.I. Sta. 787+83.12
Δ = 29° 02′ 24″ (RT)
Dc = 23° 00′ 01″
R = 249.11′
T = 64.52′
L = 126.26′
E = 8.22′
C = 124.91′
C.B. = N 43° 00′ 04″ E

PROP. SR 142 RAMP A

(A1) P.I. STA. 781+99.84
Δ = 39° 12′ 49″ (LT)
Dc = 7° 30′ 00″
R = 763.94′
T, = 369.41′
L, = 200.00′
LT, = 133.45′
ST, = 66.78′
x, = 199.66′
y, = 8.72′
k, = 99.94′
p, = 2.18′
T, = 275.58′
Δc = 31° 42′ 50″ (LT)
Lc = 422.85′
C = 417.48′
C.B. 1 = N 65° 11′ 42″ E
C.B. = N 44° 20′ 16″ E
θs = 7° 29′ 59″
eMAX = 0.080

(A2) P.I. Sta. 787+82.45
Δ = 29° 02′ 26″ (RT)
Dc = 22° 55′ 06″
R = 250.00′
T = 64.75′
L = 126.71′
E = 8.25′
C = 125.36′
C.B. = N 43° 00′ 04″ E
eMAX = RC

A	N 67° 38′ 51″ E	A	N 28° 28′ 52″ E
B	N 28° 28′ 52″ E	B	N 57° 31′ 17″ E
C	N 57° 31′ 17″ E	C	N 77° 31′ 18″ E
D	N 77° 31′ 18″ E	D	S 62° 40′ 28″ E
E	S 62° 40′ 28″ E		

EX. SR 142 RAMP B

(B1) P.I. Sta. 789+07.91
Δ = 39° 48′ 15″ (RT)
Dc = 23° 00′ 01″
R = 249.11′
T = 90.19′
L = 173.06′
E = 15.82′
C = 169.60′
C.B. = S 82° 34′ 35″ E

(B2) P.I. Sta. 793+43.50
Δ = 40° 11′ 22″ (LT)
Dc = 8° 00′ 00″
R = 716.20′
T = 262.02′
L = 502.37′
E = 46.42′
C = 492.13′
C.B. = S 82° 46′ 08″ E

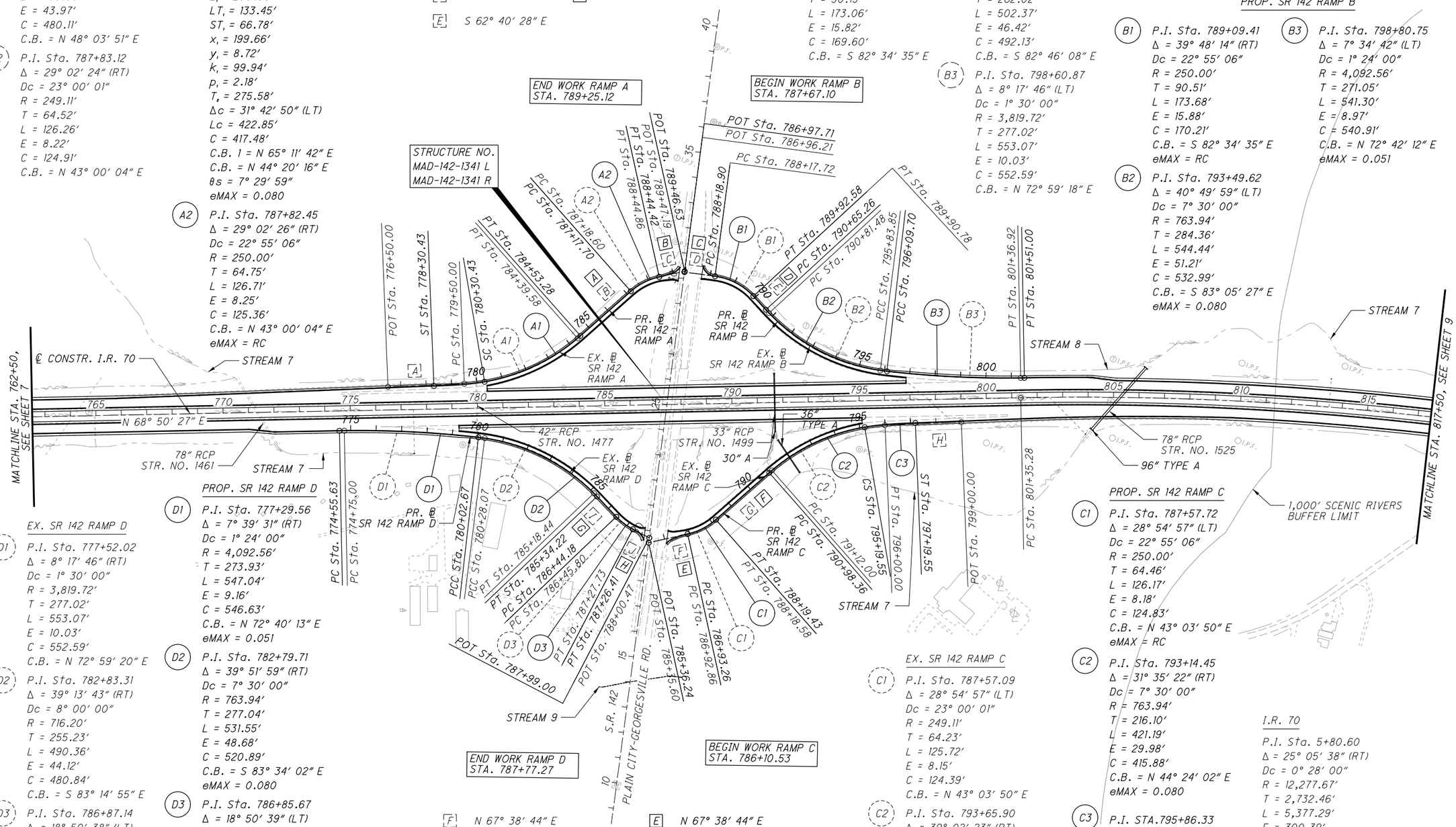
(B3) P.I. Sta. 798+60.87
Δ = 8° 17′ 46″ (LT)
Dc = 1° 30′ 00″
R = 3,819.72′
T = 277.02′
L = 553.07′
E = 10.03′
C = 552.59′
C.B. = N 72° 59′ 18″ E

PROP. SR 142 RAMP B

(B1) P.I. Sta. 789+09.41
Δ = 39° 48′ 14″ (RT)
Dc = 22° 55′ 06″
R = 250.00′
T = 90.51′
L = 173.68′
E = 15.88′
C = 170.21′
C.B. = S 82° 34′ 35″ E
eMAX = RC

(B2) P.I. Sta. 793+49.62
Δ = 40° 49′ 59″ (LT)
Dc = 7° 30′ 00″
R = 763.94′
T = 284.36′
L = 544.44′
E = 51.21′
C = 532.99′
C.B. = S 83° 05′ 27″ E
eMAX = 0.080

(B3) P.I. Sta. 798+80.75
Δ = 7° 34′ 42″ (LT)
Dc = 1° 24′ 00″
R = 4,092.56′
T = 271.05′
L = 541.30′
E = 8.97′
C = 540.91′
C.B. = N 72° 42′ 12″ E
eMAX = 0.051



PROP. SR 142 RAMP D

(D1) P.I. Sta. 777+29.56
Δ = 7° 39′ 31″ (RT)
Dc = 1° 24′ 00″
R = 4,092.56′
T = 273.93′
L = 547.04′
E = 9.16′
C = 546.63′
C.B. = N 72° 40′ 13″ E
eMAX = 0.051

(D2) P.I. Sta. 782+79.71
Δ = 39° 51′ 59″ (RT)
Dc = 7° 30′ 00″
R = 763.94′
T = 277.04′
L = 531.55′
E = 48.68′
C = 520.89′
C.B. = S 83° 34′ 02″ E
eMAX = 0.080

(D3) P.I. Sta. 786+85.67
Δ = 18° 50′ 39″ (LT)
Dc = 22° 55′ 06″
R = 250.00′
T = 41.49′
L = 82.22′
E = 3.42′
C = 81.85′
C.B. = S 73° 03′ 22″ E
eMAX = NC

EX. SR 142 RAMP D

(D1) P.I. Sta. 777+52.02
Δ = 8° 17′ 46″ (RT)
Dc = 1° 30′ 00″
R = 3,819.72′
T = 277.02′
L = 553.07′
E = 10.03′
C = 552.59′
C.B. = N 72° 59′ 20″ E

(D2) P.I. Sta. 782+83.31
Δ = 39° 13′ 43″ (RT)
Dc = 8° 00′ 00″
R = 716.20′
T = 255.23′
L = 490.36′
E = 44.12′
C = 480.84′
C.B. = S 83° 14′ 55″ E

(D3) P.I. Sta. 786+87.14
Δ = 18° 50′ 38″ (LT)
Dc = 23° 00′ 01″
R = 249.11′
T = 41.34′
L = 81.93′
E = 3.41′
C = 81.56′
C.B. = S 73° 03′ 23″ E

END WORK RAMP D
STA. 787+77.27

BEGIN WORK RAMP C
STA. 786+10.53

F	N 67° 38′ 44″ E	E	N 67° 38′ 44″ E
G	N 28° 36′ 21″ E	F	N 28° 36′ 21″ E
H	N 57° 31′ 18″ E	G	S 63° 38′ 03″ E
I	S 63° 38′ 03″ E	H	S 82° 28′ 42″ E
J	S 82° 28′ 42″ E		

EX. SR 142 RAMP C

(C1) P.I. Sta. 787+57.09
Δ = 28° 54′ 57″ (LT)
Dc = 23° 00′ 01″
R = 249.11′
T = 64.23′
L = 125.72′
E = 8.15′
C = 124.39′
C.B. = N 43° 03′ 50″ E

(C2) P.I. Sta. 793+65.90
Δ = 39° 02′ 23″ (RT)
Dc = 8° 00′ 00″
R = 716.20′
T = 253.90′
L = 488.00′
E = 43.67′
C = 478.61′
C.B. = N 48° 07′ 33″ E

PROP. SR 142 RAMP C

(C1) P.I. Sta. 787+57.72
Δ = 28° 54′ 57″ (LT)
Dc = 22° 55′ 06″
R = 250.00′
T = 64.46′
L = 126.17′
E = 8.18′
C = 124.83′
C.B. = N 43° 03′ 50″ E
eMAX = RC

(C2) P.I. Sta. 793+14.45
Δ = 31° 35′ 22″ (RT)
Dc = 7° 30′ 00″
R = 763.94′
T = 216.10′
L = 421.19′
E = 29.98′
C = 415.88′
C.B. = N 44° 24′ 02″ E
eMAX = 0.080

(C3) P.I. STA.795+86.33
Ls = 200.00′
θs = 7° 30′ 00″
LT = 133.45′
ST = 66.78′
x = 199.66′
y = 8.72′
k = 99.94′
p = 2.18′

I.R. 70

P.I. Sta. 5+80.60
Δ = 25° 05′ 38″ (RT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 2,732.46′
L = 5,377.29′
E = 300.39′
C = 5,334.41′
C.B. = N 81° 23′ 17″ E
eMAX = NC (NDC = 0.019)

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN

STA. 762+50.00 TO STA. 817+50.00

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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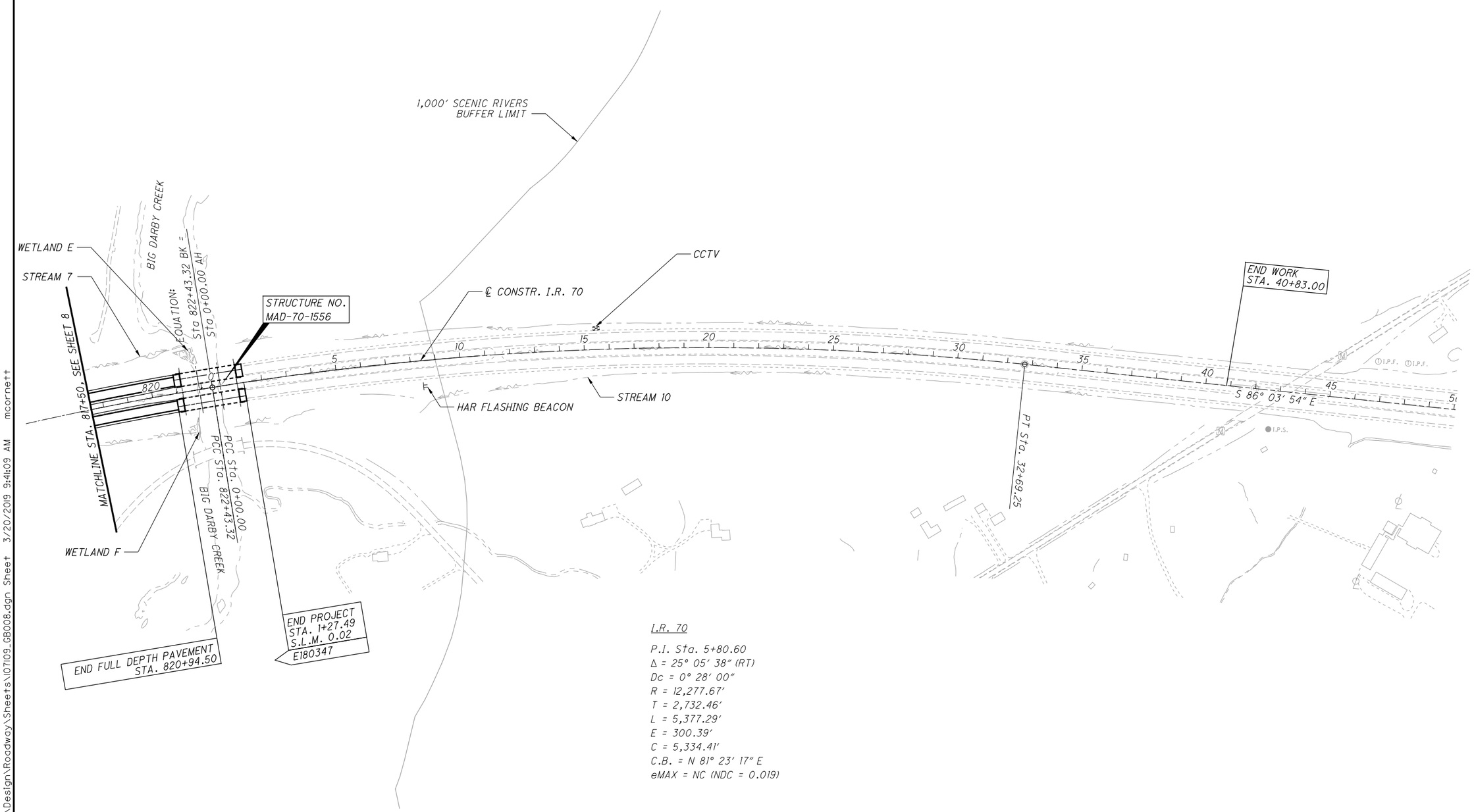

I.R. 70

P.I. Sta. 5+80.60
Δ = 25° 05' 38" (RT)
Dc = 0° 28' 00"
R = 12,277.67'
T = 2,732.46'
L = 5,377.29'
E = 300.39'
C = 5,334.41'
C.B. = N 81° 23' 17" E
eMAX = NC (NDC = 0.019)

HORIZONTAL SCALE IN FEET
0 100 200 400

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

SCHEMATIC PLAN
STA. 817+50.00 TO END PROJECT

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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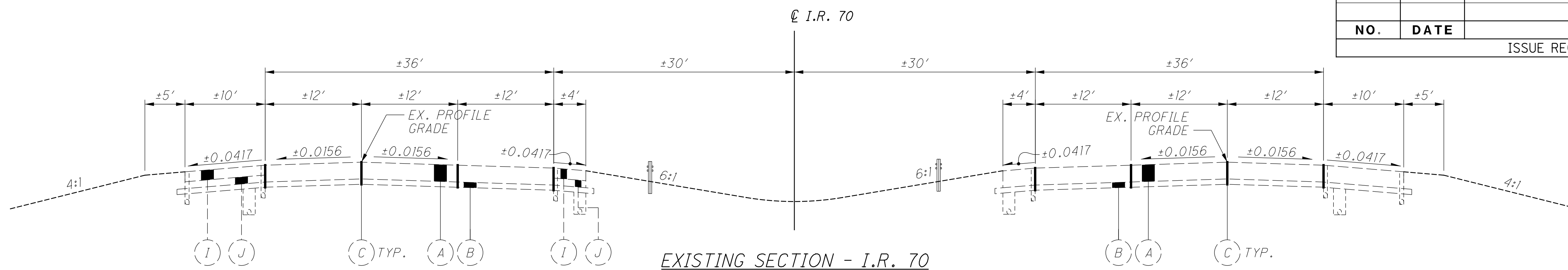


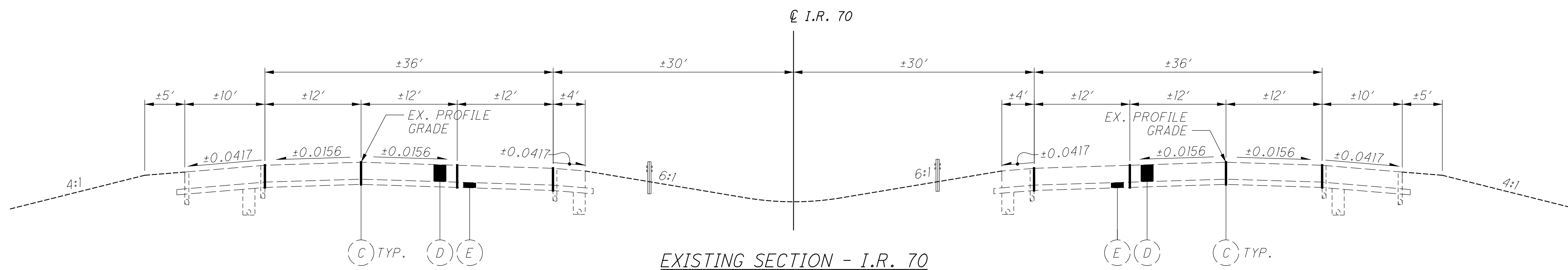
EXISTING SECTION - I.R. 70

STA. 456+64.11 TO STA. 470+29.09
STA. 478+50.00 TO STA. 513+25.00
STA. 529+61.00 TO STA. 547+45.00
STA. 555+50.00 TO STA. 637+22.08
STA. 649+85.76 TO STA. 661+34.37

STA. 672+34.37 TO STA. 726+52.77
STA. 737+52.77 TO STA. 764+50.00
STA. 780+40.00 TO STA. 781+83.65
STA. 793+83.65 TO STA. 796+82.00
STA. 804+75.00 TO STA. 815+95.74

STA. 456+64.11 TO STA. 464+27.00
STA. 480+50.00 TO STA. 529+75.00
STA. 537+79.73 TO STA. 555+89.00
STA. 572+25.00 TO STA. 636+93.63
STA. 649+55.30 TO STA. 662+03.73

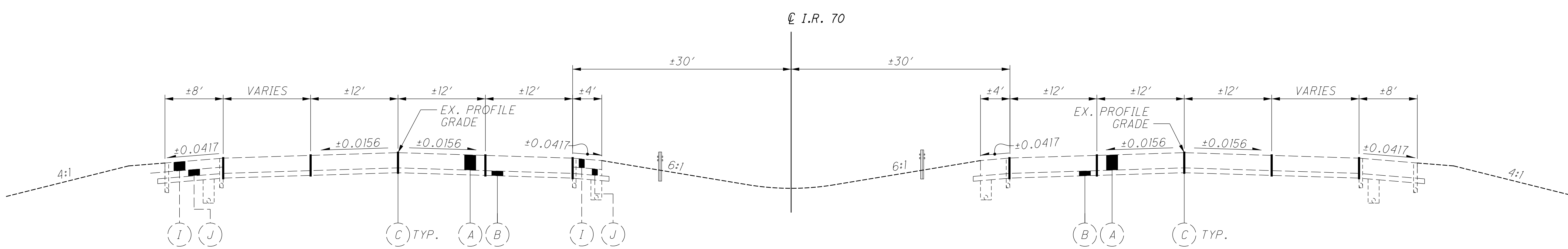
STA. 673+03.73 TO STA. 726+35.81
STA. 737+35.81 TO STA. 771+25.00
STA. 779+29.73 TO STA. 781+58.75
STA. 793+58.75 TO STA. 795+10.00
STA. 811+00.00 TO STA. 815+94.75



EXISTING SECTION - I.R. 70

STA. 637+22.08 TO STA. 642+22.08
STA. 644+85.76 TO STA. 649+85.76
STA. 661+34.37 TO STA. 672+34.37
STA. 726+52.77 TO STA. 737+52.77
STA. 781+83.65 TO STA. 793+83.65
STA. 815+95.74 TO STA. 820+95.74

STA. 636+93.63 TO STA. 641+93.63
STA. 644+55.30 TO STA. 649+55.30
STA. 662+03.73 TO STA. 673+03.73
STA. 726+35.81 TO STA. 737+35.81
STA. 781+58.75 TO STA. 793+58.75
STA. 815+94.75 TO STA. 820+94.75



EXISTING SECTION WITH RAMPS - I.R. 70

STA. 470+29.09 TO STA. 478+50.00
STA. 513+25.00 TO STA. 529+61.00
STA. 547+45.00 TO STA. 555+50.00
STA. 764+50.00 TO STA. 780+40.00
STA. 796+82.00 TO STA. 804+75.00

STA. 464+27.00 TO STA. 480+50.00
STA. 529+75.00 TO STA. 537+79.73
STA. 555+89.00 TO STA. 572+25.00
STA. 771+25.00 TO STA. 779+29.73
STA. 795+10.00 TO STA. 811+00.00

EXISTING LEGEND

(A) EXISTING ±9″ CONCRETE, ±1″ ASHPALT BOND BREAKER & ±9″ CONCRETE PAVEMENT
(B) EXISTING ±6″ AGGREGATE BASE
(C) EXISTING LONGITUDINAL PAVEMENT JOINT
(D) EXISTING ±13″ CONCRETE
(E) EXISTING ±12″ AGGREGATE BASE
(F) EXISTING ±10″ ASPHALT
(G) EXISTING ±8″ CONCRETE
(H) EXISTING ±10″ AGGREGATE BASE
(I) EXISTING ±9″ CONCRETE
(J) EXISTING ±8″ ASPHALT

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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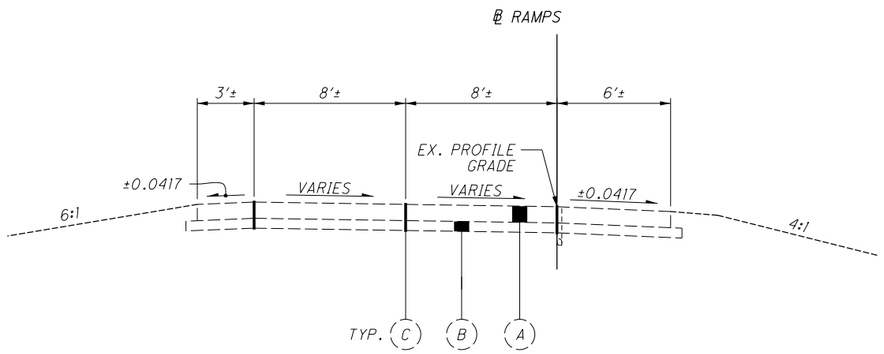
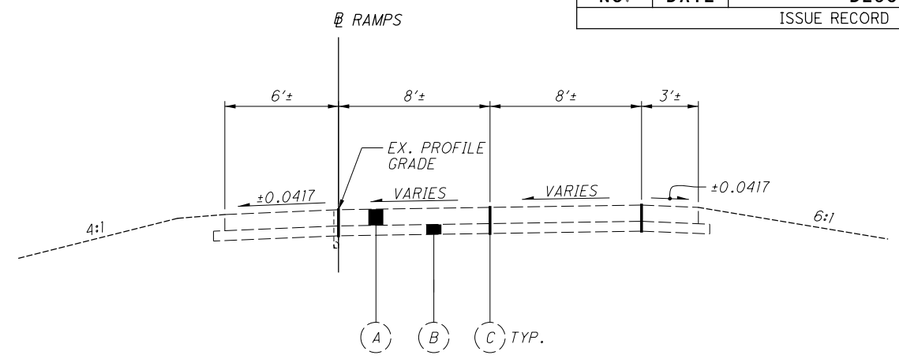


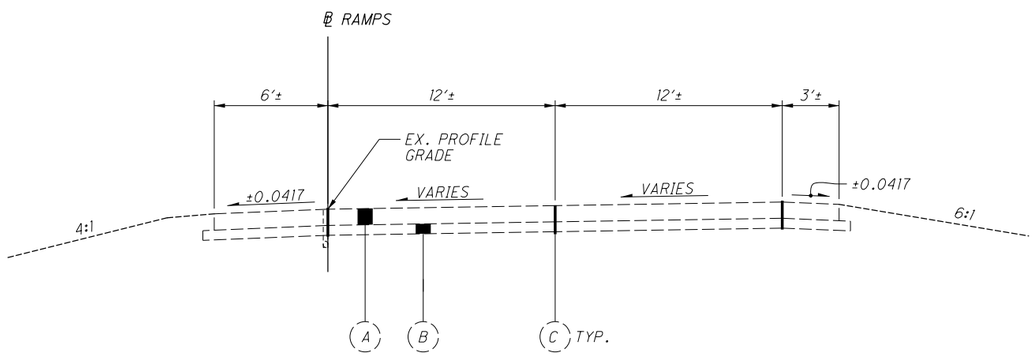
EXISTING RAMP SECTION

EXISTING RAMP SECTIONS TO ILLUSTRATE BUILDUPS ONLY
WDITHS AND SLOPES WILL VARY
APPROXIMATE LIMITS:
U.S. 42 - RAMP C
S.R. 142 - RAMPS C & D



EXISTING RAMP SECTION

EXISTING RAMP SECTIONS TO ILLUSTRATE BUILDUPS ONLY
WDITHS AND SLOPES WILL VARY
APPROXIMATE LIMITS:
U.S. 42 - RAMP B
S.R. 29 - RAMP A
S.R. 142 - RAMPS A & B



EXISTING RAMP SECTION - U.S. 42 RAMP B

EXISTING RAMP SECTIONS TO ILLUSTRATE BUILDUPS ONLY
WDITHS AND SLOPES WILL VARY
APPROXIMATE LIMITS:
U.S. 42 - RAMP B

FOR LEGEND, SEE SHEET 10

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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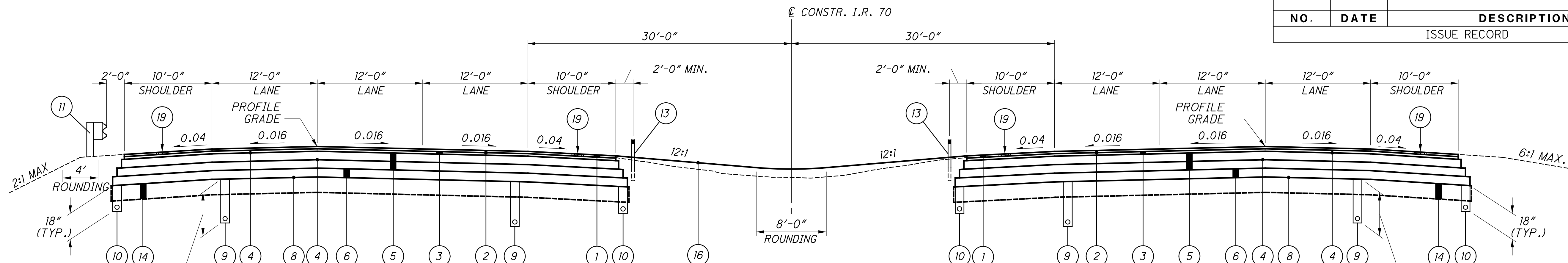
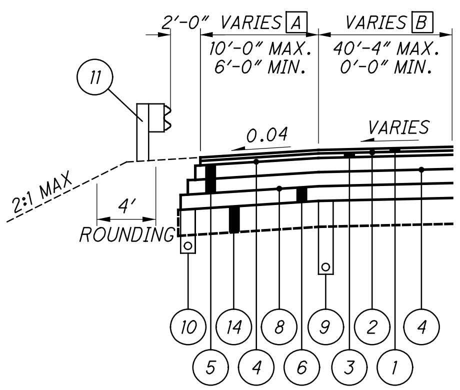
NOTE: UTILIZE 4' OF ROUNDING
FOR SLOPE TIE INS

NO.	DATE	DESCRIPTION

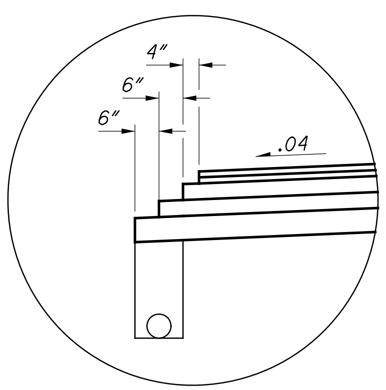
ISSUE RECORD



NORMAL SECTION - I.R. 70
LIMITING STATIONS
STA. 470+50.00 TO STA. 640+77.00
STA. 646+07.00 TO STA. 819+66.00



SPEED CHANGE LANE



ASPHALT EDGE COURSE DETAIL

A 8'-0" STA. 470+49.20 TO STA. 477+29.28
VARIES 8'-0" TO 10'-0" STA. 477+29.28 TO STA. 478+29.28

VARIES 10'-0" TO 8'-0" STA. 514+54.08 TO STA. 515+54.08
8'-0" STA. 515+54.08 TO STA. 527+04.09
VARIES 8'-0" TO 6'-0" STA. 527+04.09 TO STA. 527+53.93
6'-0" STA. 527+53.93 TO STA. 529+55.16

8'-0" STA. 547+34.48 TO STA. 554+51.31
VARIES 8'-0" TO 10'-0" STA. 554+51.31 TO STA. 555+51.31

VARIES 10'-0" TO 8'-0" STA. 765+80.43 TO STA. 766+80.43
8'-0" STA. 766+80.43 TO STA. 778+30.43
VARIES 8'-0" TO 6'-0" STA. 778+30.43 TO STA. 778+80.25
6'-0" STA. 778+80.25 TO STA. 780+39.84

8'-0" STA. 796+85.63 TO STA. 804+11.42
VARIES 8'-0" TO 10'-0" STA. 804+11.42 TO STA. 805+11.42

B VARIES 38'-10" TO 12'-0" STA. 470+49.20 TO STA. 475+19.79
12'-0" STA. 475+19.79 TO STA. 477+29.28
VARIES 12'-0" TO 0'-0" STA. 477+29.28 TO STA. 478+29.28

VARIES 0'-0" TO 38'-10" STA. 514+54.08 TO STA. 529+55.16

VARIES 40'-4" TO 12'-0" STA. 547+34.48 TO STA. 552+00.00
12'-0" STA 552+00.00 TO STA. 554+51.31
VARIES 12'-0" TO 0'-0" STA. 554+51.31 TO STA. 555+51.31

VARIES 0'-0" TO 38'-10" STA. 765+80.43 TO STA. 780+39.84

VARIES 38'-11" TO 12'-0" STA. 796+85.63 TO STA. 801+51.00
12'-0" STA. 801+51.00 TO STA. 804+11.42
VARIES 12'-0" TO 0'-0" STA. 804+11.42 TO STA. 805+11.18

C VARIES 17'-11" TO 0'-0" STA. 470+50.00 TO STA. 479+44.14

VARIES 0'-0" TO 12'-0" STA. 529+77.79 TO STA. 530+77.79
12'-0" STA. 530+77.79 TO STA. 533+25.00
VARIES 12'-0" TO 38'-11" STA. 533+25.00 TO STA. 537+77.95

VARIES 38'-11" TO 0'-0" STA. 556+01.85 TO STA. 572+38.90

VARIES 0'-0" TO 12'-0" STA. 771+01.04 TO STA. 772+01.04
12'-0" STA 772+01.04 TO STA. 774+55.63
VARIES 12'-0" TO 38'-11" STA. 774+55.63 TO STA. 779+26.22

VARIES 38'-10" TO 0'-0" STA. 795+10.13 TO STA. 809+69.55

D 8'-0" STA. 470+50.00 TO STA. 478+44.14
VARIES 8'-0" TO 10'-0" STA. 478+44.14 TO STA. 479+44.14

VARIES 10'-0" TO 8'-0" STA. 529+77.79 TO STA. 530+77.79
8'-0" STA. 530+77.79 TO STA. 537+77.95

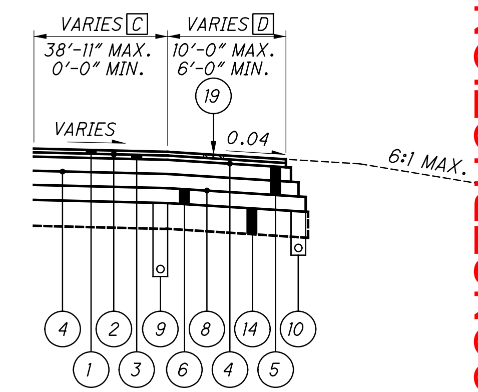
6'-0" STA. 556+01.85 TO STA. 556+73.67
VARIES 6'-0" TO 8'-0" STA. 556+73.67 TO STA. 557+23.47
8'-0" STA. 557+23.47 TO STA. 571+38.90
VARIES 8'-0" TO 10'-0" STA. 571+38.90 TO STA. 572+38.90

VARIES 10'-0" TO 8'-0" STA. 771+01.04 TO STA. 772+01.04
8'-0" STA. 772+01.04 TO STA. 779+26.22

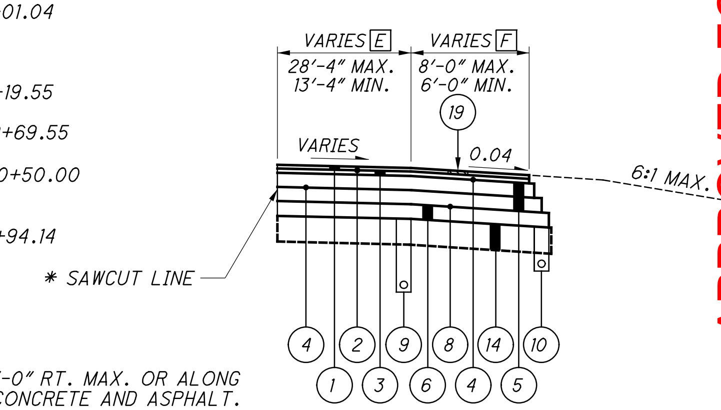
6'-0" STA. 795+10.13 TO STA. 796+69.73
VARIES 6'-0" TO 8'-0" STA. 796+69.73 TO STA. 797+19.55
8'-0" STA. 797+19.55 TO STA. 808+69.55
VARIES 8'-0" TO 10'-0" STA. 808+69.55 TO STA. 809+69.55

E VARIES 28'-4" TO 13'-4" STA. 464+38.70 TO STA. 470+50.00

F 6'-0" STA. 464+38.70 TO STA. 466+44.30
VARIES 6'-0" TO 8'-0" STA. 466+44.30 TO STA. 466+94.14
8'-0" STA. 466+94.14 TO STA. 470+50.00



SPEED CHANGE LANE



* SAWCUT LINE 76'-0" RT. MAX. OR ALONG
JOINT BETWEEN CONCRETE AND ASPHALT.

SAWCUT AREA
STA. 464+38.70 TO STA. 470+50.00

LEGEND

- (1) ITEM 806 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, AS PER PLAN
- (2) ITEM 407 - NON-TRACKING TACK COAT
- (3) ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)
- (4) ITEM 407 - NON-TRACKING TACK COAT (2 LIFTS)
- (5) ITEM 302 - 9.5" ASPHALT CONCRETE BASE, PG64-22 (2 LIFTS)
- (6) ITEM 304 - 6" AGGREGATE BASE
- (7) ITEM 452 - 13.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA
- (8) ITEM 204 - PROOF ROLLING
- (9) ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31 OR 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31
- (10) ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31
- (11) ITEM 606 - GUARDRAIL, TYPE MGS
- (12) ITEM 609 - CURB, TYPE 4-C
- (13) ITEM 606 - GUARDRAIL, MISC.: TENSIONED CABLE WITH CONCRETE FOUNDATION LINE POST (SOCKETED)
- (14) ITEM 206 - CEMENT STABILIZED SUBGRADE 12" DEEP
- (15) ITEM 622 - CONCRETE BARRIER, TYPE D
- (16) ITEM 659 - SEEDING AND MULCHING
- (17) ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (t = 15")
- (18) ITEM 605 - AGGREGATE DRAINS
- (19) ITEM 618 - RUMBLE STRIPS, (ASPHALT CONCRETE)
- (20) ITEM 304 - AGGREGATE BASE (T=VARIABLE, 6" MIN)

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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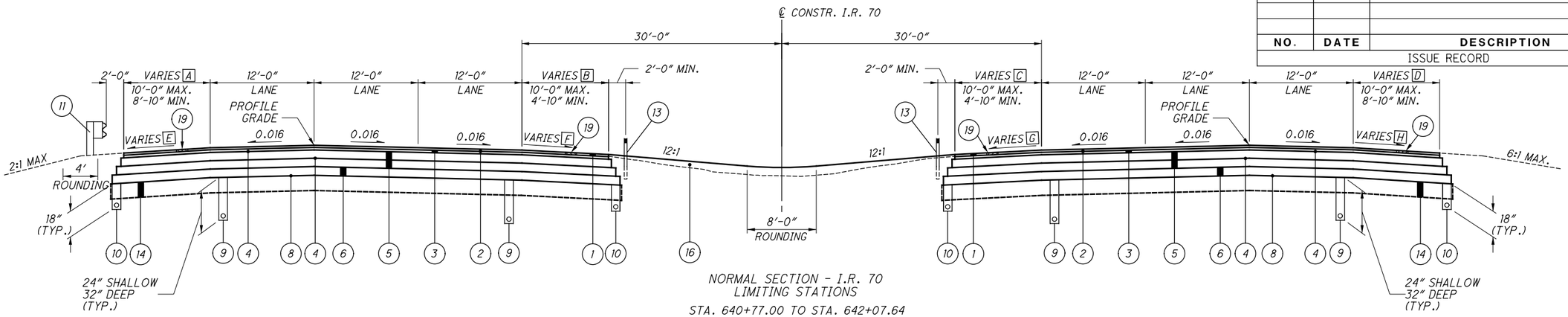


NORMAL SECTION - I.R. 70
LIMITING STATIONS

STA. 640+77.00 TO STA. 642+07.64
STA. 644+70.37 TO STA. 646+07.00
STA. 819+66.00 TO STA. 820+95.23

A VARIES 10'-0" TO 8'-10" STA. 641+98.00 TO STA. 642+27.34
VARIES 8'-10" TO 10'-0" STA. 644+91.80 TO STA. 645+21.00
VARIES 10'-0" TO 8'-10" STA. 820+66.00 TO STA. 820+96.04

B VARIES 10'-0" TO 4'-10" STA. 640+85.00 TO STA. 642+14.26
VARIES 4'-10" TO 10'-0" STA. 644+77.57 TO STA. 646+07.00
VARIES 10'-0" TO 4'-10" STA. 819+66.00 TO STA. 820+95.49

C VARIES 10'-0" TO 4'-10" STA. 640+77.00 TO STA. 642+01.05
VARIES 4'-10" TO 10'-0" STA. 644+63.20 TO STA. 645+92.00
VARIES 10'-0" TO 4'-10" STA. 819+65.00 TO STA. 820+94.96

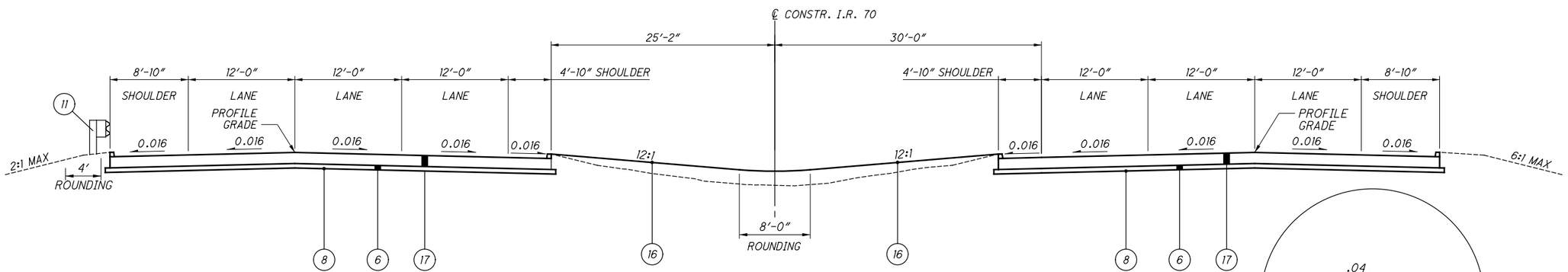
D VARIES 10'-0" TO 8'-10" STA. 641+59.00 TO STA. 641+88.18
VARIES 8'-10" TO 10'-0" STA. 644+49.20 TO STA. 644+79.00
VARIES 10'-0" TO 8'-10" STA. 820+65.00 TO STA. 820+94.40

E VARIES 0.04 TO 0.016 STA. 641+98.00 TO STA. 642+27.34
VARIES 0.016 TO 0.04 STA. 644+91.80 TO STA. 645+21.00
VARIES 0.04 TO 0.016 STA. 820+66.00 TO STA. 820+96.04

F VARIES 0.04 TO 0.016 STA. 640+85.00 TO STA. 642+14.26
VARIES 0.016 TO 0.04 STA. 644+77.57 TO STA. 646+07.00
VARIES 0.016 TO 0.04 STA. 819+66.00 TO STA. 820+95.49

G VARIES 0.04 TO 0.016 STA. 640+77.00 TO STA. 642+01.05
VARIES 0.016 TO 0.04 STA. 644+63.20 TO STA. 645+92.00
VARIES 0.04 TO 0.016 STA. 819+65.00 TO STA. 820+94.96

H VARIES 0.04 TO 0.016 STA. 641+59.00 TO STA. 641+88.18
VARIES 0.016 TO 0.04 STA. 644+49.20 TO STA. 644+79.00
VARIES 0.04 TO 0.016 STA. 820+65.00 TO STA. 820+94.40



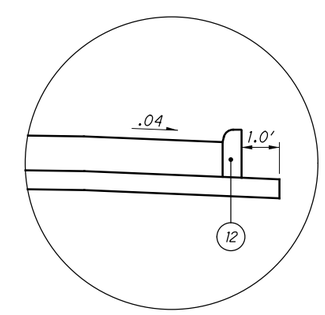
APPROACH SLAB SECTION - I.R. 70 OVER
LITTLE DARBY CREEK & BIG DARBY CREEK
LIMITING STATIONS

STA. 642+07.64 TO STA. 642+32.64
STA. 644+45.37 TO STA. 644+70.37
STA. 820+95.23 TO STA. 821+20.23
STA. 1+02.49 TO STA. 1+27.49

BARRIER DETAIL- I.R. 70
LIMITING STATIONS

STA. 540+84.50, LT TO STA. 541+61.50, LT
STA. 666+67.00, LT TO STA. 667+16.00, LT
STA. 731+76.00, LT TO STA. 732+26.00, LT
STA. 787+42.50, LT TO STA. 788+31.50, LT

STA. 543+48.00, RT TO STA. 544+26.00, RT
STA. 667+20.00, RT TO STA. 667+69.00, RT
STA. 731+60.00, RT TO STA. 732+10.00, RT
STA. 787+06.00, RT TO STA. 797+95.00, RT



SHOULDER DETAIL WITH CURB (TYP.)
LIMITING STATIONS

STA. 541+61.50, LT TO STA. 541+79.50, LT
STA. 644+77.57, LT TO STA. 644+85.18, LT
STA. 644+91.80, LT TO STA. 644+99.45, LT
STA. 667+16.00, LT TO STA. 667+34.00, LT
STA. 732+26.00, LT TO STA. 732+44.00, LT
STA. 788+31.50, LT TO STA. 788+49.50, LT
STA. 1+16.22, LT TO STA. 1+34.11, LT
STA. 1+16.74, LT TO STA. 1+30.70, LT

STA. 543+30.00, RT TO STA. 543+48.00, RT
STA. 641+80.62, RT TO STA. 641+88.18, RT
STA. 641+93.46, RT TO STA. 642+01.05, RT
STA. 667+02.00, RT TO STA. 667+20.00, RT
STA. 731+42.00, RT TO STA. 731+60.00, RT
STA. 786+88.00, RT TO STA. 787+06.00, RT
STA. 820+86.88, RT TO STA. 820+94.40, RT
STA. 820+87.45, RT TO STA. 821+94.96, RT

NOTE: UTILIZE 4' OF ROUNDING
FOR SLOPE TIE INS

SEE APPROACH SLAB DETAILS FOR BARRIER/CURB TRANSITIONS

FOR LEGEND, SEE SHEET 12

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

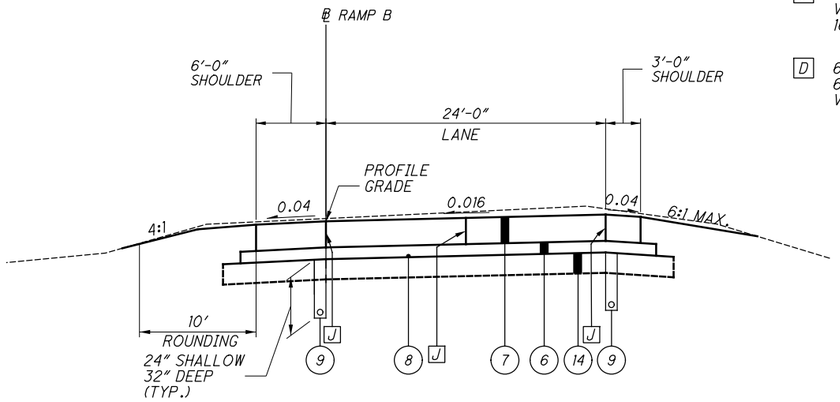
P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GY004.dgn Sheet 3/20/2019 9:41:13 AM mcornett

NO.	DATE	DESCRIPTION

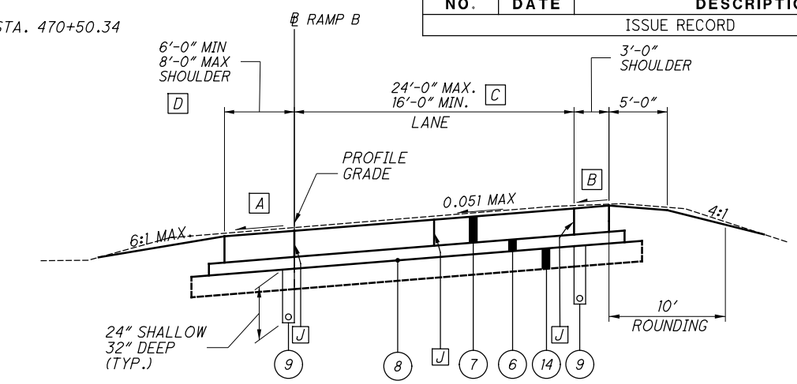
ISSUE RECORD

C 24'-0" STA. 461+51.48 TO STA. 466+54.73
VARIES 24'-0" TO 16'-0" STA. 469+06.10 TO STA. 469+56.10
16'-0" STA. 469+56.10 TO STA. 470+50.34

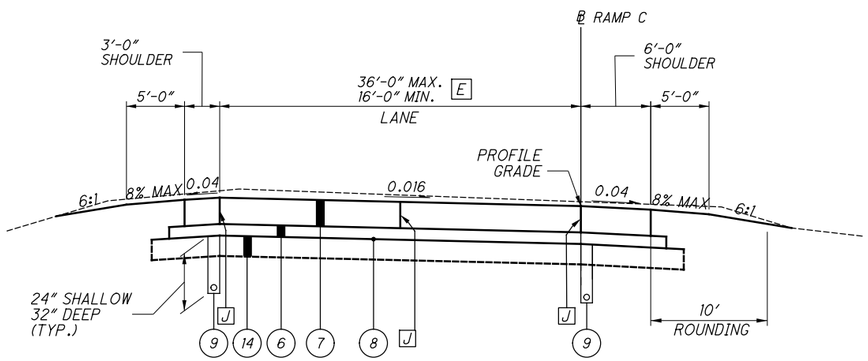
D 6'-0" STA. 461+51.48 TO STA. 466+54.73
6'-0" STA. 468+19.21 TO STA. 470+00.34
VARIES 6'-0" TO 8'-0" STA. 470+00.34 TO STA. 470+50.34



NORMAL SECTION - U.S. 42 RAMP B
LIMITING STATIONS
* STA. 460+78.61 TO STA. 461+51.48
STA. 466+54.73 TO STA. 468+19.21

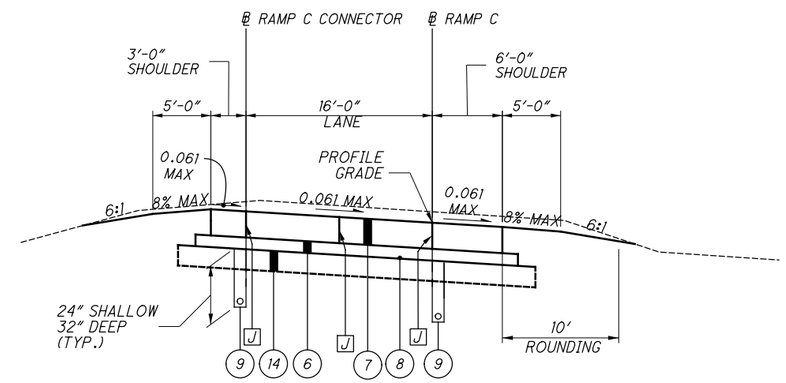


SUPERELEVATED SECTION - U.S. 42 RAMP B
LIMITING STATIONS
STA. 461+51.48 TO STA. 466+54.73
STA. 468+19.21 TO STA. 470+50.34

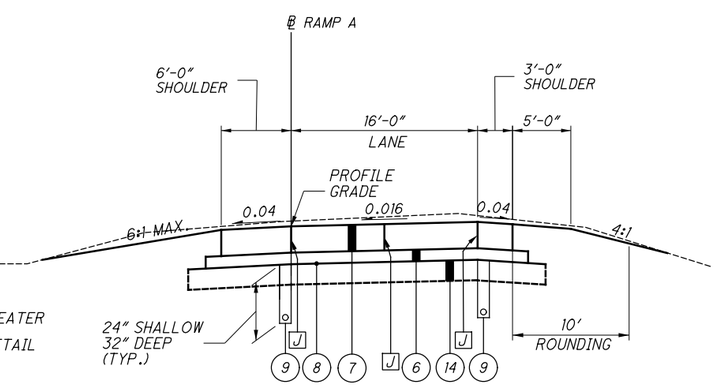


NORMAL SECTION - U.S. 42 RAMP C
LIMITING STATIONS
STA. 450+67.21 TO STA. 459+41.35

E 16'-0" STA. 450+67.21 TO STA. 453+06.28
VARIES 36'-0" TO 16'-0" STA. 453+06.28 TO STA. 457+06.28
16'-0" STA. 457+06.28 TO STA. 459+41.35



SUPERELEVATED SECTION - U.S. 42 RAMP C/RAMP C CONNECTOR
LIMITING STATIONS
STA. 449+01.82 TO STA. 450+67.21 - RAMP C
STA. 459+41.35 TO STA. 464+40.40 - RAMP C
*STA. 451+45.51 TO STA. 453+06.28 - RAMP C CONNECTOR



NOTE: UTILIZE 4' OF ROUNDING FOR SLOPE TIE INS

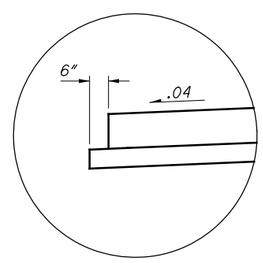
A SUPERELEVATION SLOPE OR 0.04 MIN. WHICHEVER IS GREATER

B SEE HIGH SIDE SHOULDER DETAIL ON SHEET 16

J LONGITUDINAL JOINT SEE STANDARD CONSTRUCTION DRAWINGS AND INTERSECTION DETAILS FOR JOINT SPACING

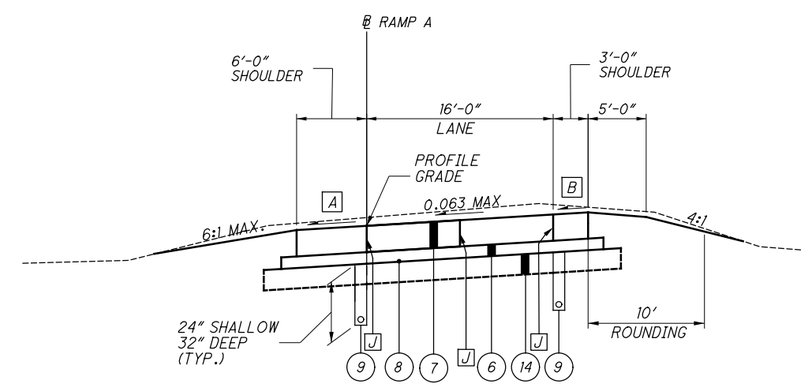
* SEE INTERSECTION DETAIL

NORMAL SECTION - S.R. 29 RAMP A
LIMITING STATIONS
STA. 531+28.97 TO STA. 533+71.31



CONCRETE RAMP EDGE COURSE DETAIL

FOR CONCRETE JOINT DETAILS SEE SHEETS 370 TO 376.



SUPERELEVATED SECTION - S.R. 29 RAMP A
LIMITING STATIONS
STA. 529+53.32 TO STA. 531+28.97

FOR LEGEND, SEE SHEET 12

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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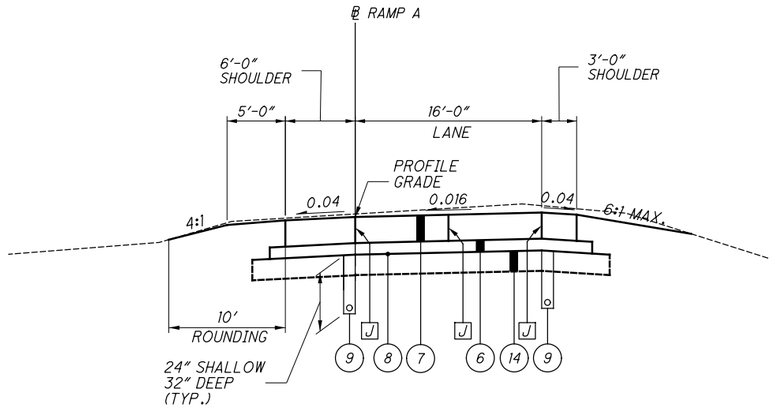
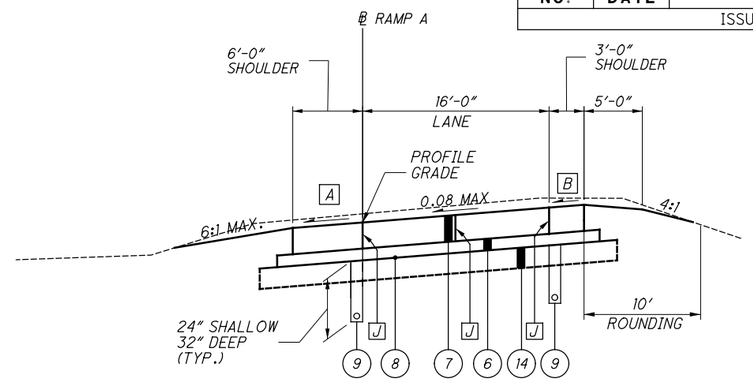
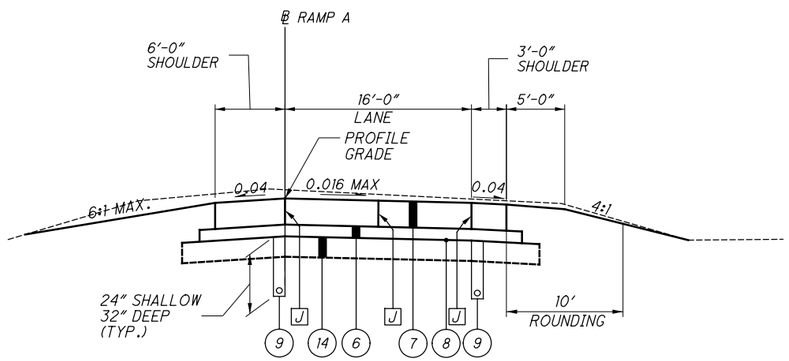
NO.	DATE	DESCRIPTION
		ISSUE RECORD



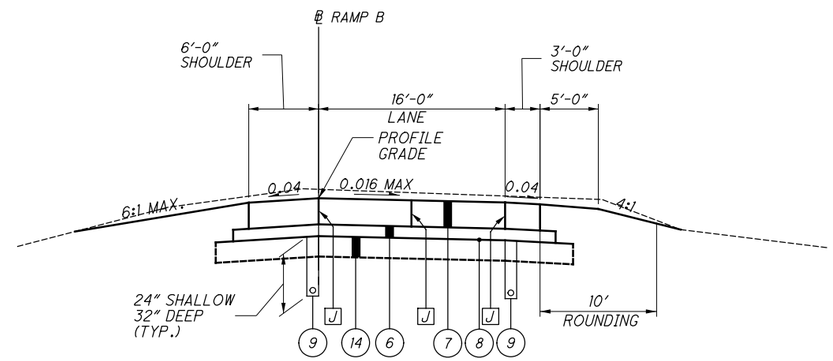
NORMAL SECTION - S.R. 142 RAMP A
LIMITING STATIONS
STA. 785+72.75 TO STA. 786+60.07



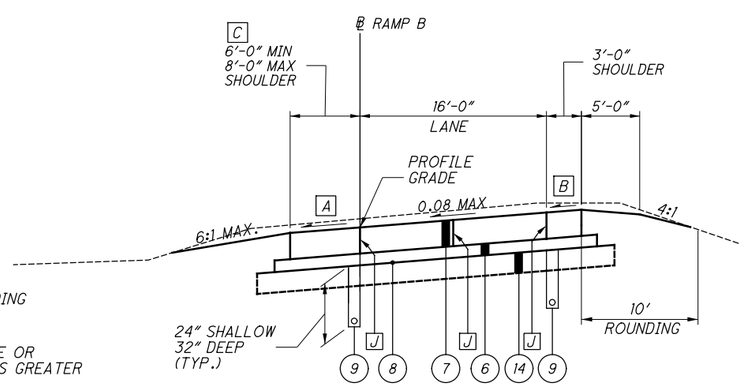
SUPERELEVATED SECTION - S.R. 142 RAMP A
LIMITING STATIONS
STA. 780+37.45 TO STA. 785+72.75



SUPERELEVATED SECTION - S.R. 142 RAMP A
LIMITING STATIONS
STA. 786+60.07 TO STA. 788+00.00
* STA. 788+00.00 TO STA. 789+25.12



SUPERELEVATED SECTION - S.R. 142 RAMP B
LIMITING STATIONS
* STA. 787+67.10 TO STA. 789+00.00
STA. 789+00.00 TO STA. 789+53.90



SUPERELEVATED SECTION - S.R. 142 RAMP B
LIMTING STATIONS
STA. 789+53.90 TO STA. 796+86.68

NOTE: UTILIZE 4' OF ROUNDING FOR SLOPE TIE INS

A SUPERELEVATION SLOPE OR 0.04 MIN. WHICHEVER IS GREATER

B SEE HIGH SIDE SHOULDER DETAIL ON SHEET 16

J LONGITUDINAL JOINT SEE STANDARD CONSTRUCTION DRAWINGS AND INTERSECTION DETAILS FOR JOINT SPACING

* SEE INTERSECTION DETAIL

C 6'-0" STA. 789+53.90 TO STA. 796+36.68
VARIES 6'-0" TO 8'-0" STA. 796+36.68 TO STA. 796+86.68

FOR EDGE COURSE DETAIL, SEE SHEET 14

FOR LEGEND, SEE SHEET 12.

FOR CONCRETE JOINT DETAILS SEE SHEETS 370 TO 376.

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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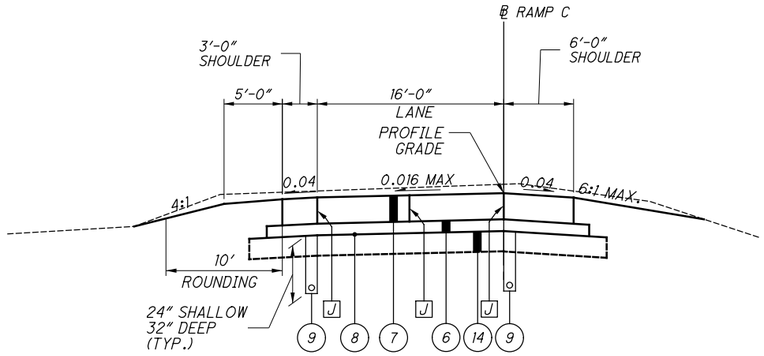
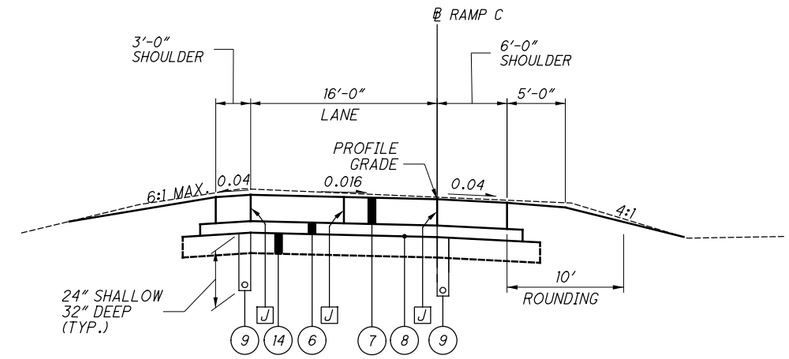
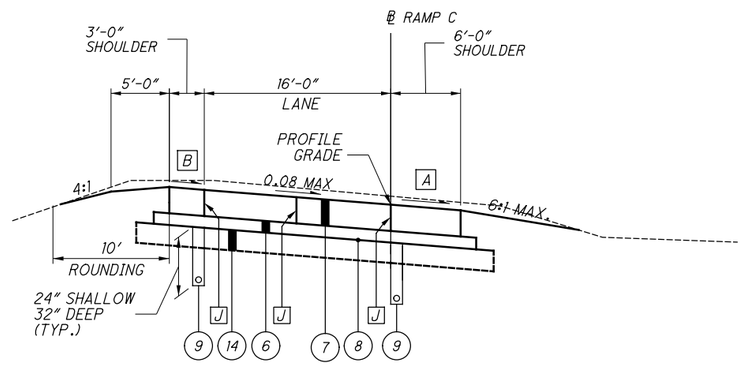
NO.	DATE	DESCRIPTION
		ISSUE RECORD



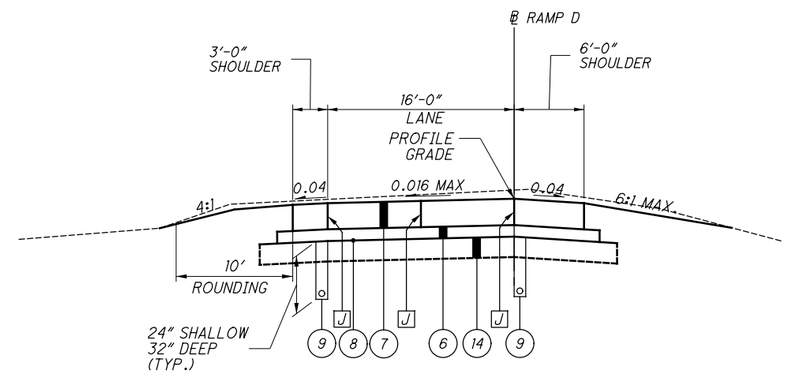
SUPERELEVATED SECTION - S.R. 142 RAMP C
LIMITING STATIONS
* STA. 786+10.53 TO STA. 786+93.26
STA. 786+93.26 TO STA. 788+65.52



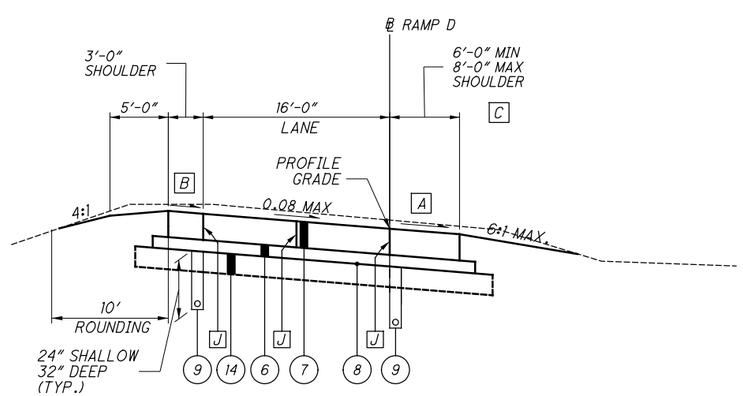
NORMAL SECTION - S.R. 142 RAMP C
LIMITING STATIONS
STA. 788+65.52 TO STA. 789+78.89



SUPERELEVATED SECTION - S.R. 142 RAMP C
LIMITING STATIONS
STA. 789+78.89 TO STA. 795+12.52

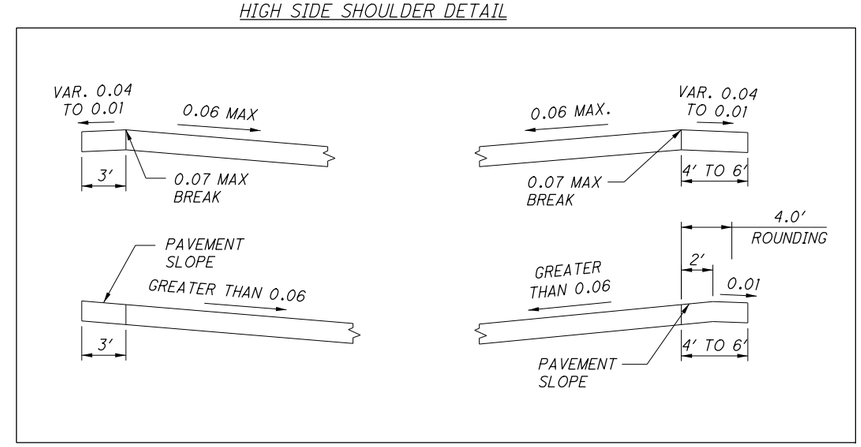


SUPERELEVATED SECTION - S.R. 142 RAMP D
LIMITING STATIONS
STA. 786+45.58 TO STA. 787+00.00
* STA. 787+00.00 TO STA. 787+77.27



SUPERELEVATED SECTION - S.R. 142 RAMP D
LIMITING STATIONS
STA. 779+25.08 TO STA. 786+45.58

HIGH SIDE SHOULDER DETAIL



NOTE: UTILIZE 4' OF ROUNDING FOR SLOPE TIE INS

A SUPERELEVATION SLOPE OR 0.04 MIN. WHICHEVER IS GREATER

B SEE HIGH SIDE SHOULDER DETAIL ON THIS SHEET

J LONGITUDINAL JOINT SEE STANDARD CONSTRUCTION DRAWINGS AND INTERSECTION DETAILS FOR JOINT SPACING

* SEE INTERSECTION DETAIL

C VARIES 8'-0" TO 6'-0" STA. 779+25.08 TO STA. 779+75.08
6'-0" STA. 779+75.08 TO STA. 786+45.58

FOR LEGEND, SEE SHEET 12
FOR CONCRETE JOINT DETAILS SEE SHEETS 370 TO 376.

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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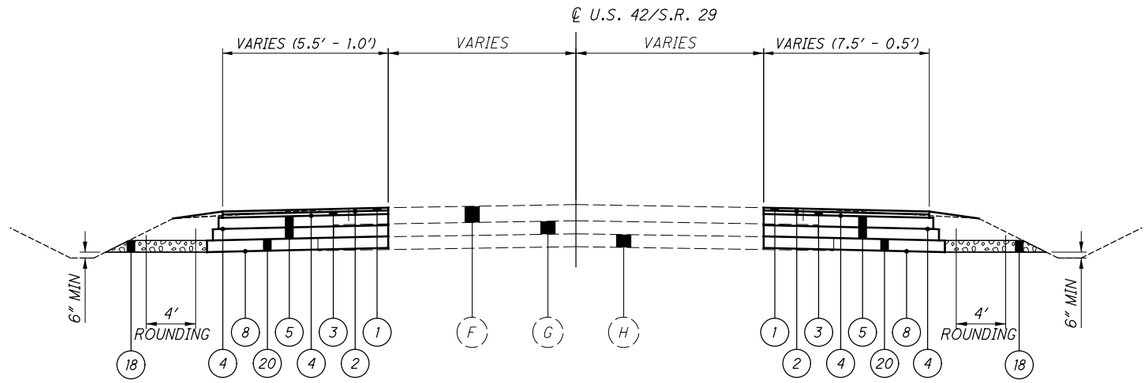
NO.	DATE	DESCRIPTION

ISSUE RECORD



PAVEMENT WIDENING SECTION - U.S. 42/S.R. 29 INTERSECTION

EXISTING SECTION TO ILLUSTRATE APPROXIMATE BUILDUP ONLY
WDITHS AND SLOPES WILL VARY
SEE INTERSECTION LIMITS

GORE DETAIL

NOTES:

1. THE EXISTING PAVEMENT AND THE WIDENING SHOULD MEET AT THE SAME SUBGRADE ELEVATION. IF NECESSARY, THE BASE UNDER THE WIDENING SHOULD BE THICKENED SO THAT THE SUBGRADE ELEVATIONS WILL MATCH. IF THE WIDENING IS THICKER THAN THE EXISTING THE SUBGRADE SHOULD BE SLOPED AWAY FROM THE EXISTING AND DRAINAGE PROVIDED.

FOR LEGEND, SEE SHEETS 10 AND 12
FOR CONCRETE JOINT DETAILS SEE SHEETS 370 TO 376.

APPROVED FOR CONSTRUCTION - 3/20/2019

TYPICAL SECTIONS

MAD-70-8.62

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UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

OHIO EDISON
CHRIS HARPER
420 SOUTH YORK STREET
SPRINGFIELD, OHIO 45505
937-327-1283

COLUMBUS GAS OF OHIO
ROBERT CALDWELL
3550 JOHNNY APPLESEED COURT
COLUMBUS, OHIO 43231
614-818-2108

MADISON ENERGY COOPERATIVE ASSOC.
UTILITY PIPELINE LTD.
KIRK SEELING
937-205-1788 (CELL)
330-498-9130 EXT. 405 (OFFICE)

CENTURYLINK
BOBBY WALTERS
4650 LAKEHURST COURT
3RD FLOOR
DUBLIN, OHIO 43016
440-244-8415

AMERICAN ELECTRIC POWER
PAUL PAXTON
700 MORRISON ROAD
GAHANNA, OHIO 43230
614-883-6831

ODOT, DISTRICT 6
UTILITIES COORDINATOR
SCOTT MEADOWS
400 EAST WILLIAM STREET
DELAWARE, OHIO 43015
740-833-8110

ODOT, DISTRCT 6
DAVID CARLIN, P.E.
400 EAST WILLIAM STREET
DELAWARE, OHIO 43015
740-833-8267

ODOT TRAFFIC MONITORING
SANDRA MAPEL (FIELD OPERATIONS)
1980 WEST BROAD STREET
COLUMBUS, OHIO 43223
614-644-0291

ODOT ITS LAB
1606 WEST BROAD STREET
COLUMBUS, OHIO 43223
614-387-4113
EMAIL: CEN.ITS.LAB@DOT.OHIO.GOV
NON-OUPS MEMBER, EMAIL FOR LOCATES

AT&T OSPE
MIKE LEPLEY
111 NORTH 4" STREET
COLUMBUS, OHIO 43215
614-223-5872

CHARTER/SPECTRUM
SAMUEL LUTZ
3760 INTERCHANGE DRIVE
614-481-5047 (OFFICE)
614-348-2966 (CELL)
EMAIL: SAMUEL.LUTZ@CHARTER.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

4 INCHES OF TOPSOIL SHALL BE PLACED WHERE VEGETATED BIOFILTER BMPS ARE LOCATED.

ITEM 832 STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN

ALL REFERENCES TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION EFFLUENT GUIDELINES PERMIT NO. OHC000004 IN SUPPLEMENTAL SPECIFICATION 832 (SS832) AND APPENDIX E WILL BE REPLACED WITH THE OEPA GENERAL PERMIT NO. OHCD00002, AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY LOCATED WITHIN THE BIG DARBY CREEK WATERSHED (BIG DARBY PERMIT).

THE CONTRACTOR NEEDS TO FULLY UNDERSTAND ALL REQUIREMENTS OF THE BIG DARBY PERMIT BEFORE BEGINNING ANY WORK. FOR ANY DISCREPANCIES BETWEEN SS832 AND THIS PLAN NOTE, RESOLUTION SHOULD BE BASED ON THE BIG DARBY PERMIT.

ALL REQUIREMENTS OF SS832 WITH THE MODIFICATIONS NOTED IN THE SCOPE ARE REQUIRED TO BE MET.

ITEM 806 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM TYPE A, AS PER PLAN

THE MAINLINE PAVEMENT SURFACE COURSE SHALL BE PLACED WITH A SINGLE COLD LONGITUDINAL JOINT. A COLD LONGITUDINAL JOINT IS PERMITTED BETWEEN THE SHOULDER AND MAINLINE PAVEMENT. NO OTHER COLD JOINTS ARE PERMITTED IN THE SURFACE COURSE OF MAINLINE PAVEMENT.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

ANTI-SEGREGATION EQUIPMENT

ANTI-SEGREGATION SHALL BE USED FOR FLEXIBLE PAVEMENT AS PER SECTION 406.6 OF THE PAVEMENT DESIGN MANUAL.

COOPERATION BETWEEN CONTRACTORS:

THE DBT SHOULD BE AWARE OF THE FOLLOWING PROJECTS ADJACENT TO OR WITHIN THE PROJECT LIMITS THAT ARE EITHER UNDER CONTRACT OR PLANNED TO BE UNDER CONTRACT DURING THIS PROJECT. DBT IS REFERRED TO C&MS SECTION 105.08. SEE BELOW FOR PROJECT NAME, ESTIMATED SCHEDULED AND BRIEF DESCRIPTION. THIS SHOULD NOT BE CONSIDERED AN ALL-INCLUSIVE LIST.

A. MAD-42-0.00, PID 105547, FY 2019. RESURFACING PROJECT FROM THE CLARK COUNTY LINE TO THE SOUTH LONDON CORPORATION LIMIT AND FROM THE NORTH LONDON CORPORATION LIMIT TO THE UNION COUNTY LINE.

B. D06-SP-FY19 CONCRETE, FY 2018, PID 91146. CONCRETE SPOT REPAIR PROJECT TO BE PERFORMED ON FRA-70-0.00 TO 3.41.

C. MAD-142-13.41 L/R, PID 104240, FY 2021/2022. REPLACE BRIDGE DECKS, PARAPETS AND APPROACH SLABS. PAINT STRUCTURAL STEEL.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: GPS (VRS)
MONUMENT TYPE: CONCRETE MONUMENTS

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID12A

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
COMBINED SCALE FACTOR: 1.0000000000
ORIGIN OF COORDINATE
SYSTEM: 1 METER = OHIO STATE PLANE, SOUTH ZONE (0,0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 823.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

BENCHMARKS FOR PROJECT MAD-70-8.62

BM-#	DESCRIPTION		
BM-1	NORTHING: 714844.27	EASTING: 1732586.10	ELEV: 964.41
	TOP OF IRON PIN IN CENTERLINE CONCRETE MONUMENT AT STATION 551+00 ±150 FT EAST OF OVERHEAD TRUSS SIGN SUPPORT OVER WEST BOUND I-70 EXIT 79/EXIT 80.		
BM-2	NORTHING: 714962.08	EASTING: 1733478.58	ELEV: 960.48
	TOP OF IRON PIN IN CENTERLINE CONCRETE MONUMENT IN MEDIAN AT STATION 560+00 ±1100 FT EAST OF OVERHEAD TRUSS SIGN SUPPORT OVER WEST BOUND I-70 EXIT 79/EXIT 80.		
BM-3	NORTHING: 715079.92	EASTING: 1734370.95	ELEV: 957.76
	TOP OF IRON PIN IN CENTERLINE CONCRETE MONUMENT IN MEDIAN AT STATION 569+00 ±1000 FT WEST OF OVERHEAD CANTILEVER SIGN SUPPORT OVER THE NORTH SIDE OF WEST BOUND I-70 EXIT 80.		
BM-4	NORTHING: 715219.77	EASTING: 1735544.56	ELEV: 964.18
	"[]" CUT NORTH SIDE CONCRETE PAD FOR CABLE GUARDRAIL BARRIER ±100 FT WEST OF EMERGENCY TURN AROUND, ±1/2 MILE EAST OF SR-29 OVERPASS IN MEDIAN.		
BM-5	NORTHING: 715401.38	EASTING: 1736679.50	ELEV: 967.34
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±500 FT WEST OF OVERHEAD CANTILEVER SIGN SUPPORT OVER WEST BOUND I-70, SR-29 MECHANICSBURG/URBANA 1 MILE IN MEDIAN.		
BM-6	NORTHING: 715562.87	EASTING: 1737902.22	ELEV: 971.16
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±500 FT EAST OF OVERHEAD CANTILEVER SIGN SUPPORT OVER WEST BOUND I-70, SR-29 MECHANICSBURG/URBANA 1 MILE IN MEDIAN.		
BM-7	NORTHING: 715718.24	EASTING: 1739076.82	ELEV: 972.97
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±1800 FT EAST OF OVERHEAD CANTILEVER SIGN SUPPORT OVER WEST BOUND I-70, SR-29 MECHANICSBURG/URBANA 1 MILE IN MEDIAN.		
BM-8	NORTHING: 715813.13	EASTING: 1739923.70	ELEV: 957.04
	TOP OF IRON PIN IN CENTERLINE CONCRETE MONUMENT IN MEDIAN AT STATION 625+00 ±500 FT WEST OF EMERGENCY TURN AROUND ±1.5 MILES EAST OF SR-29 IN MEDIAN.		
BM-9	NORTHING: 715950.94	EASTING: 1740828.45	ELEV: 941.58
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±300 FT EAST OF EMERGENCY TURN AROUND, ±500 FT WEST OF BRIDGES OVER LITTLE DARBY CREEK.		
BM-10	NORTHING: 716105.41	EASTING: 1741620.51	ELEV: 922.96
	"[]" CUT SOUTHWEST CORNER TOP OF CONCRETE BARRIER WALL AT SOUTHWEST CORNER OF I-70 WESTBOUND BRIDGE OVER LITTLE DARBY CREEK.		
BM-11	NORTHING: 716520.67	EASTING: 1743100.21	ELEV: 945.24
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±800 FT EAST OF I-70 BRIDGES OVER LITTLE DARBY CREEK, IN MEDIAN ±500 FT WEST OF BRIDGE FOR CR-14 OVER I-70.		
BENCHMARKS NUMBERS 12 AND 13 NOT USED			
BM-14	NORTHING: 717666.69	EASTING: 1746074.52	ELEV: 958.50
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±1/2 MILE EAST OF CR-14 BRIDGE OVER I-70, ±1/2 MILE WEST OF MIDDLE PIKE OVER I-70, IN MEDIAN.		
BM-15	NORTHING: 718364.06	EASTING: 1747875.66	ELEV: 952.40
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±1000 FT WEST OF MIDDLE PIKE OVER I-70, IN MEDIAN.		
BM-16	NORTHING: 718931.43	EASTING: 1749387.89	ELEV: 944.79
	TOP OF IRON PIN IN CENTERLINE CONCRETE MONUMENT IN MEDIAN AT STATION 765+00 ±500 FT WEST OF MIDDLE PIKE OVER I-70, IN MEDIAN.		
BM-17	NORTHING: 719632.58	EASTING: 1751152.84	ELEV: 941.18
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±1000 FT EAST OF MIDDLE PIKE OVER I-70, IN MEDIAN ±800 FT WEST OF OVERHEAD CANTILEVER SIGN SUPPORT EXIT 85 PLAIN CITY/GEORGESVILLE ROAD 1/2 MILE.		
BM-18	NORTHING: 720382.27	EASTING: 1753089.39	ELEV: 929.99
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±900 FT WEST OF I-70 EASTBOUND EXIT RAMP TO SR-142 EXIT 85 PLAIN CITY/GEORGESVILLE ROAD.		
BM-19	NORTHING: 721125.13	EASTING: 1755013.38	ELEV: 908.54
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±200 FT WEST OF SR-142 OVER I-70, IN MEDIAN.		
BM-20	NORTHING: 721795.72	EASTING: 1756848.34	ELEV: 899.69
	"[]" CUT SOUTH SIDE CONCRETE PAD FOR CABLE BARRIER ±1700 FT EAST OF SR-142 OVER I-70, IN MEDIAN ±1500 FT WEST OF BIG DARBY CREEK.		

NO.	DATE	DESCRIPTION

ISSUE RECORD

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

GENERAL NOTES

MAD-70-8.62

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ENVIRONMENTAL COMMITMENTS

THE DBT SHALL ADHERE TO THE FOLLOWING ENVIRONMENTAL COMMITMENTS:

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LITTLE DARBY CREEK AND BIG DARBY CREEK AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

2. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE PRAIRIE OAKS METRO PARK, LITTLE DARBY CREEK, AND BIG DARBY CREEK AND THE PUBLIC.

3. THE CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE TO ALERT USERS OF THE LITTLE DARBY CREEK AND BIG DARBY CREEK OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO THE RECREATIONAL FACILITIES OR FEATURES.

4. THE CONTRACTOR SHALL NOT STAGE OR STORE ANY CONSTRUCTION EQUIPMENT WITHIN THE DEFINED BOUNDARIES OF THE PRAIRIE OAKS METRO PARK, LITTLE DARBY CREEK, OR BIG DARBY CREEK.

5. THE CONTRACTOR SHALL CLOSELY COORDINATE THE PROJECT SCHEDULE INCLUDING NOTICE OF PROJECT COMMENCEMENT A MINIMUM OF 15 CALENDAR DAYS PRIOR TO COMMENCEMENT OF WORK WITH ODOT AND ODNR SCENIC RIVER COORDINATOR, HEATHER DOHERTY AT 740-258-0567 OR HEATHER.DOHERTY@DNR.STATE.OH.US, AND ODNR WATER TRAILS COORDINATOR, THOMAS ARBOUR AT 614-265-6575 OR THOMAS.ARBOUR@DNR.STATE.OH.US.

6. ODOT D-6 AND OES SHALL HIRE AN ENVIRONMENTAL MONITOR TO PERFORM ON-SITE INSPECTIONS THROUGHOUT CONSTRUCTION TO HELP ENSURE COMPLIANCE WITH ALL ENVIRONMENTAL COMMITMENTS.

7. IF ANY EARTHWORK IS PERFORMED WITHIN THE PROJECT AREA, THEN A SEDIMENT AND EROSION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED BEFORE EARTHWORK COMMENCES. ALL CONTROLS SHALL BE PROPERLY MAINTAINED UNTIL FINAL SITE STABILIZATION HAS BEEN ACHIEVED. ALL DENUDED AREAS (LOCATION WHERE VEGETATION IS REMOVED OR ERODIBLE MATERIAL IS EXPOSED TO STORMWATER) SHALL BE SEEDED AND MULCHED AS SPECIFIED IN THE CURRENT OHIO EPA'S CONSTRUCTION GENERAL PERMIT PART IIIG2BI STABILIZATION. THE ODNR SCENIC RIVERS MANAGER MAY REQUIRE IMMEDIATE STABILIZATION WHERE SEDIMENT EROSION MAY IMPACT ENVIRONMENTALLY CRITICAL AREAS. PROPERLY INSTALLED (FRAMED AND ENTRENCHED) SEDIMENT FENCE SHALL BE UTILIZED AROUND THE WORK SITE PERIMETER AND ANY STORM SEWER INLETS. APPROPRIATELY DESIGNED ROCK CHECK DAMS AND OTHER EROSION CONTROLS SHALL BE UTILIZED IN DITCHES AND CULVERTS. PARTICULAR ATTENTION SHALL BE GIVEN TO WATERCOURSES THAT COULD CONVEY SEDIMENT LADEN WATER DIRECTLY TO A DESIGNATED SCENIC RIVER. ANY DENUDED DITCHES SHALL BE SEEDED AND PROTECTED IMMEDIATELY WITH FIBER EROSION CONTROL MATTING OR SOD UPON COMPLETION OF EARTHWORK. STRAW BALES SHALL NOT BE UTILIZED AS A FORM OF SEDIMENT AND EROSION CONTROL. ALL SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED UPON STABILIZATION OF THE PROJECT AREA. IF ANY EARTHWORK OR VEGETATION REMOVAL (OTHER THAN MOWING, TREE TRIMMING, BRUSH REMOVAL OR HERBICIDAL SPRAYING) BECOMES NECESSARY WITHIN 1,000 FEET OF A DESIGNATED SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK) THEN THE DISTRICT ENVIRONMENTAL COORDINATOR MUST BE CONTACTED AT 740-833-8065 PRIOR TO COMMENCEMENT OF THE WORK.

8. IF HERBICIDAL SPAYING IS NECESSARY WITHIN 1000 FEET OF A DESIGNATED SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK), OR A STREAM SECTION UPSTREAM OF A DESIGNATED SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK), OR IN ANY TRIBUTARY WATERCOURSE WITHIN 1000 FEET OF THE CONFLUENCE TO A DESIGNATED SCENIC RIVER, THEN A STATE LICENSED PUBLIC APPLICATOR SHALL APPLY ONLY OHIO EPA AQUATIC APPROVED GLYPHOSATE, N - (PHOSPHONOMETHYL) GLYCINE IN THE FORM OF ITS ISOPROPYLAMINE SALT HERBICIDE AND SURFACTANT AT THE LABELED RATES IN FRONT, UNDER, AND BEHIND (18") GUARDRAIL AND ABUTMENT WING WALLS. THE HERBICIDE MUST BE SAFE FOR APPLICATION ON OR NEAR STANDING WATER. THE APPLICATION OF THE HERBICIDE SHALL NOT INCLUDE ANY SOIL DISTURBANCE ACTIVITIES. IF ANY OTHER TYPES OF HERBICIDES OR HERBICIDAL APPLICATIONS ARE NECESSARY, THEN THE DISTRICT ENVIRONMENTAL COORDINATOR MUST BE CONTACTED AT 740-833-8065 PRIOR TO THE COMMENCEMENT OF THE APPLICATION TYPE.

9. IF CUTTING AND CLEARING OF ANY VEGETATION WITHIN 1000 FEET OF A SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK) IS REQUIRED, THEN ALL WORK SHALL BE COMPLETED IN SUCH A MANNER SO AS TO LIMIT THE AMOUNT OF VEGETATION BEING CLEARED TO THE ABSOLUTE MINIMUM NECESSARY TO ACCOMPLISH THE GOAL OF THE PROJECT. VERTICAL PRUNING OF TREES IS PERMITTED, IF ANY OVERHANGING LIMBS CAUSE A SAFETY HAZARD OR OBSTRUCT VIEW. VERTICAL PRUNING SHALL NOT INCLUDE THE USE OF A FLAIL MOWER. CARE SHALL BE TAKEN NOT TO GIRDLE OR SCUFF TREE TRUNKS WHERE PRACTICABLE.

10. NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO A SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK) OR ANY TRIBUTARY WATER COURSES. ALL ASPHALT OR CONCRETE GRINDINGS, EXCESS ASPHALTIC OR CONCRETE MATERIALS OR ANY OTHER DEBRIS GENERATED DURING RESURFACING OR OTHER SIMILAR ACTIVITIES SHALL BE REMOVED IMMEDIATELY FROM WITHIN 1000 FEET OF A SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK) AND DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE FEMA 100 YEAR FLOOD ELEVATION AND NOT WITHIN 1000 FEET OF THE DESIGNATED SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK).

11. IF PAINTING, WELDING, SAND AND/OR WATER BLASTING (CLEANING) IS INCORPORATED AS PART OF THE PROJECT AT OR OVER A SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK), THEN APPROPRIATE APRONS SHALL BE UTILIZED TO PROVIDE FOR COMPLETE CONTAINMENT OF ALL PAINT, WELDING SLAG AND/OR SEALANT OVER SPRAY AND OTHER DEBRIS. APRONS, APPROPRIATE FALSEWORK OR OTHER BARRIERS SHALL BE UTILIZED ON ALL DECK REPLACEMENT PROJECTS TO PREVENT THE DISCHARGE OF CONCRETE, ASPHALT OR OTHER DEBRIS TO A DESIGNATED SCENIC RIVER. ALL DEBRIS COLLECTED SHALL BE DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE FEMA 100 YEAR FLOOD PLAIN AND NOT WITH 1000 FEET OF THE SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK).

12. THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 6 PIO OFFICE NO LESS THAN 14 DAYS IN ADVANCE OF CONSTRUCTION TO COORDINATE EFFORTS TO NOTIFY ADJACENT RESIDENTS, BUSINESSES, AND EMERGENCY SERVICES.

13. WHEN THEY ARE AVAILABLE, A COPY OF THE FINAL PLANS SHALL BE PROVIDED TO ODNR SCENIC RIVER COORDINATOR, HEATHER DOHERTY AT HEATHER.DOHERTY@DNR.STATE.OH.US.

14. IF ROADSIDE DITCH MAINTENANCE IS NECESSARY WITHIN 1000 FEET OF A DESIGNATED STATE SCENIC RIVER (BIG DARBY CREEK AND LITTLE DARBY CREEK), THEN THE DITCH SHALL BE MAINTAINED ONLY FOR THE ORIGINAL INTENDED FUNCTION AND RESTORED TO THE ORIGINAL DESIGN CONFIGURATION, UNLESS THE DITCH LINE WILL BE MODIFIED FOR WATER QUALITY ISSUES SUCH AS STORM WATER CONTROL OR MITIGATION. ANY DENUDED DITCHES SHALL BE SEEDED AND PROTECTED IMMEDIATELY WITH NATURAL EROSION CONTROL MATTING OR SOD UPON COMPLETION OF EARTHWORK. STRAW BALES SHALL NOT BE UTILIZED AS A FORM OF SEDIMENT AND EROSION CONTROL. ALL SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED UPON STABILIZATION OF THE PROJECT AREA. IF WORK EXCEEDS THESE RESTRICTIONS THEN THE DISTRICT ENVIRONMENTAL COORDINATOR MUST BE NOTIFIED IMMEDIATELY AT 740-833-8065.

INDIANA BAT HABITAT

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

TREE CLEARING SHALL BE LIMITED TO THOSE AREAS COORDINATED WITHIN THE ECOLOGICAL SURVEY REPORT (ESR), AVAILABLE IN ATTACHMENT Q.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

CCTV INSTALLATIONS

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

CCTV CAMERAS SHALL BE LIMITED TO A DOWNTIME OF 72 HOURS. MAKE ARRANGEMENTS WHEN HAVING TO RELOCATE THESE DEVICES SO THAT THE NEW INFRASTRUCTURE IS IN PLACE BEFORE TAKING THE EXISTING SITE EQUIPMENT OFFLINE.

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED TDP
CHECKED MJC

GENERAL NOTES

MAD-70-8.62

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ITEM 606 - CABLE GUARDRAIL

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY ONE OF THE HIGH TENSION FOUR CABLE GUARDRAIL SYSTEMS AS LISTED IN ATTACHMENT I . PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, GUARDRAIL, MISC., TENSIONED CABLE WITH CONCRETE FOUNDATION LINE POSTS (SOCKETED) AND ITEM 606, GUARDRAIL, MISC. TENSIONED CABLE ANCHOR TERMINAL AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL HIGH TENSION CABLE GUARDRAIL SYSTEM NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

SYSTEMS SHALL HAVE A MAXIMUM DEFLECTION OF 8 FEET AND THE MAXIMUM LONGITUDINAL DISTANCE BETWEEN POSTS SHALL BE 15'.

INSTALLATION WILL BE A FOUR CABLE HIGH TENSION SYSTEM INSTALLED IN SOCKETED POSTS FOUNDATION.

CONTRACTOR SHALL PROVIDE DELINEATORS ON THE POSTS AT A MINIMUM INTERVAL OF 100' AND ON ALL ANCHOR TERMINALS.

TRANSITIONS TO W-BEAM GUARDRAIL ARE NOT ALLOWED.

REFER TO MANUFACTURER FOR MAXIMUM OFFSET FROM BREAK POINT.

TORPEDO OR BULLET SPLICES ARE NOT ALLOWED. ALL CABLE SPLICES SHALL BE A SWAGED OR OPEN BODY DESIGN THAT ALLOWS FOR ANNUAL INSPECTION BETWEEN THE WEDGE AND STRANDS OF CABLE.

POSTS ARE SET IN SOCKETED CONCRETE FOUNDATIONS AND SHALL NOT BE PERMANENTLY INSTALLED UNTIL THEIR RESPECTIVE RUNS OF TENSIONED CABLE GUARDRAIL ARE READY FOR FINAL CONNECTION TO THE END TERMINAL ASSEMBLY. THE CONTRACTOR SHALL REPLACE ANY POSTS DAMAGED DURING INSTALLATION AS DETERMINED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

BMP INFORMATION

BMP TYPE	BEGIN				END				LENGTH (FEET)	WIDTH (FEET)	TOTAL CONTRIB. AREA (ACRES)	EDA TREATMENT CREDIT (ACRES)
	STATION	OFFSET	LATITUDE	LONGITUDE	STATION	OFFSET	LATITUDE	LONGITUDE				
VEG. BIOFILTER DITCH 1	479+00	0.00	39.956853	-83.36701	470+37	0.00	39.956521	-83.370056	863	4	2.14	2.14
VEG. BIOFILTER DITCH 2	479+00	0.00	39.956853	-83.36701	489+00	0.00	39.957237	-83.363489	1000	4	2.49	2.49
VEG. BIOFILTER DITCH 3	489+00	0.00	39.957239	-83.363475	501+98	0.00	39.957737	-83.35891	1298	4	3.22	3.22
VEG. BIOFILTER DITCH 4	502+72	0.00	39.957767	-83.358631	513+50	0.00	39.958182	-83.354825	1078	4	2.74	2.74
VEG. BIOFILTER DITCH 5	513+50	0.00	39.958182	-83.354825	518+50	0.00	39.958374	-83.353059	500	5	3.98	1.24
VEG. BIOFILTER DITCH 6	518+50	0.00	39.958374	-83.353059	523+00	0.00	39.958547	-83.351477	450	6	5.10	1.12
VEG. BIOFILTER DITCH 7	523+00	0.00	39.958548	-83.351462	534+00	0.00	39.95897	-83.347591	1100	4	2.73	2.73
VEG. BIOFILTER DITCH 8	547+40	0.00	39.959487	-83.342844	559+00	0.00	39.959932	-83.338761	1160	4	2.88	2.88
VEG. BIOFILTER DITCH 9	559+00	0.00	39.959934	-83.338747	567+50	0.00	39.960258	-83.335766	850	4	2.10	2.10
VEG. BIOFILTER DITCH 10	581+50	0.00	39.96079	-83.330877	570+00	0.00	39.960356	-83.334869	1150	4	2.85	2.85
VEG. BIOFILTER DITCH 11	570+00	0.00	39.960356	-83.334869	567+50	0.00	39.96026	-83.335752	250	5	3.48	0.63
VEG. BIOFILTER DITCH 12	603+00	0.00	39.961623	-83.323219	590+00	0.00	39.961125	-83.327804	1300	4	3.22	3.22
VEG. BIOFILTER DITCH 13	590+00	0.00	39.961125	-83.327804	587+00	0.00	39.961009	-83.328864	300	5	3.96	0.74
VEG. BIOFILTER DITCH 14	587+00	0.00	39.961009	-83.328864	581+98	0.00	39.960817	-83.33063	502	7	5.20	1.24
VEG. BIOFILTER DITCH 15	608+00	0.00	39.961816	-83.321446	603+00	0.00	39.961625	-83.323205	500	4	3.53	1.24
										TREATMENT PROVIDED		30.58
										TREATMENT REQUIRED		30.54

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS.

MISC. DRAINAGE WORK, AS PER PLAN

SEE SCOPE SECTION 14.5 FOR DEFINITION OF PIPE CROSSING DRAINAGE WORK AT THE FOLLOWING LOCATIONS.

STATION	SIZE	REQUIRED TREATMENT
456+28	84"	REGRADE DITCH
459+20	30"	REGRADE DITCH
479+00	12"	CLEAN OUT PIPE
497+83	15"	CLEAN OUT PIPE
508+80	8"	CLEAN OUT PIPE
602+50	8"	CLEAN OUT PIPE
611+00	10"	CLEAN OUT PIPE
674+45	68X43 ELLIP	REGRADE DITCH
674+80	15"	CLEAN OUT PIPE
701+00	12"	CLEAN OUT PIPE
735+32	45x29 ELLIP	PATCH HEADWALL
		REGRADE DITCH
		CORRECT SCOUR HOLE
736+10	6"	CLEAN OUT PIPE
755+18	8"	CLEAN OUT PIPE
764+10	8"	CLEAN OUT PIPE
771+35	78"	REGRADE DITCH
780+00	42"	REPLACE RIPRAP SLABS
805+25	78"	REGRADE DITCH
792+00	36"	REGRADE DITCH

NO.	DATE	DESCRIPTION

ISSUE RECORD

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

GENERAL NOTES

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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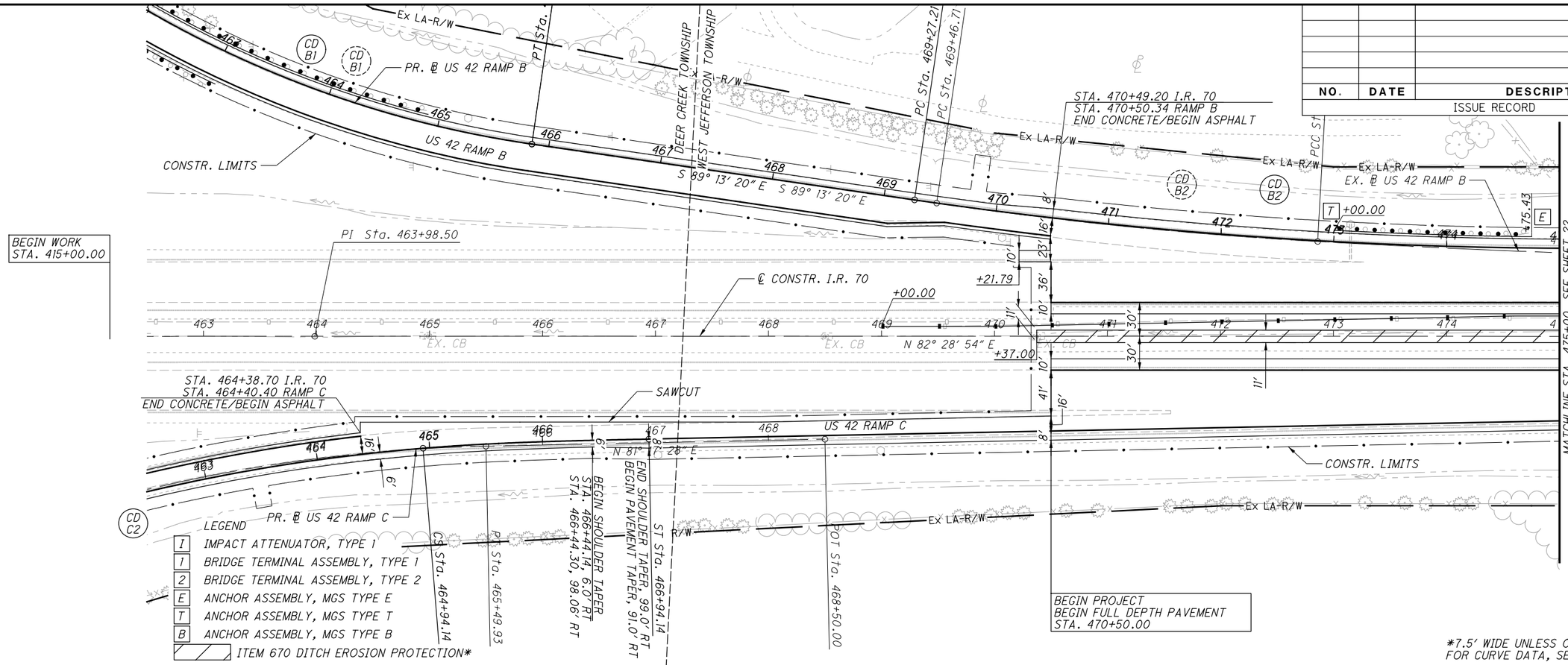

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
BEGIN PROJECT TO STA. 475+00.00

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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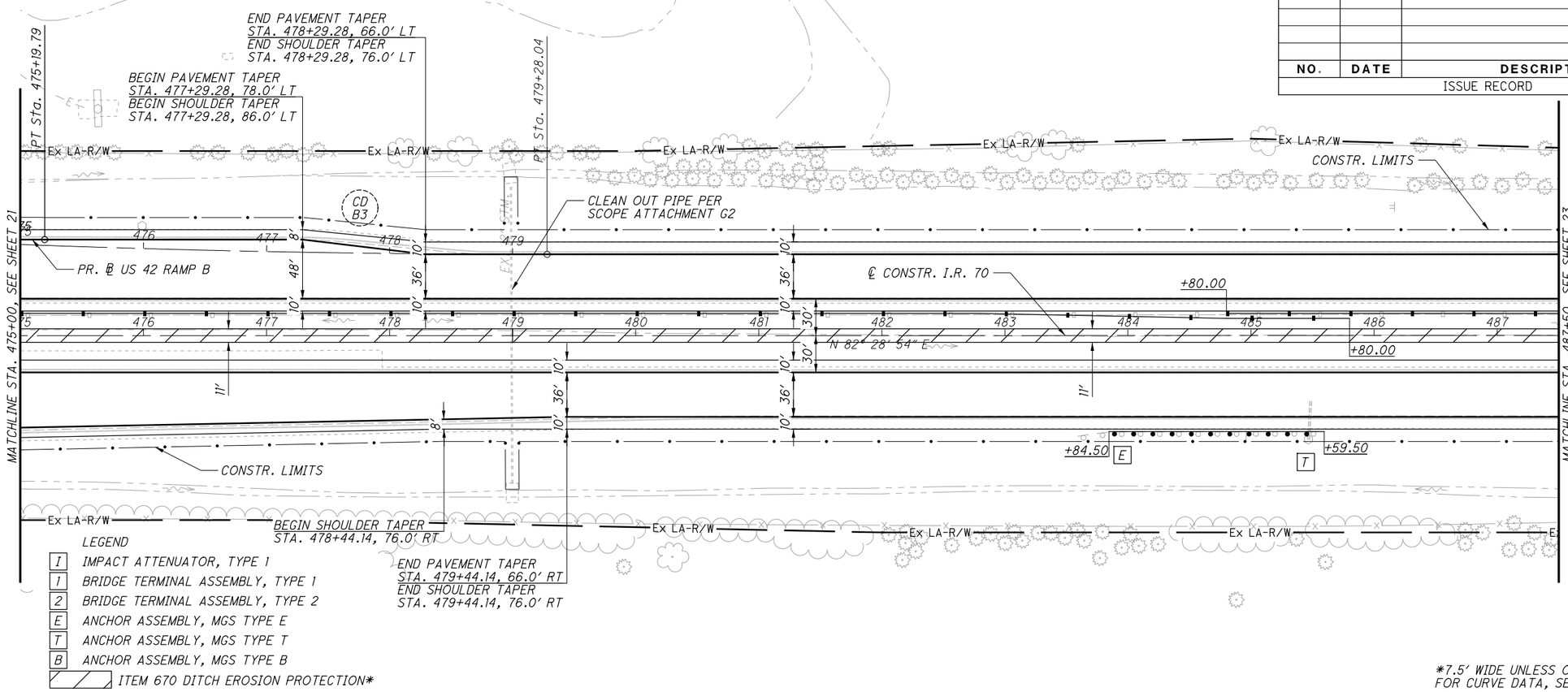
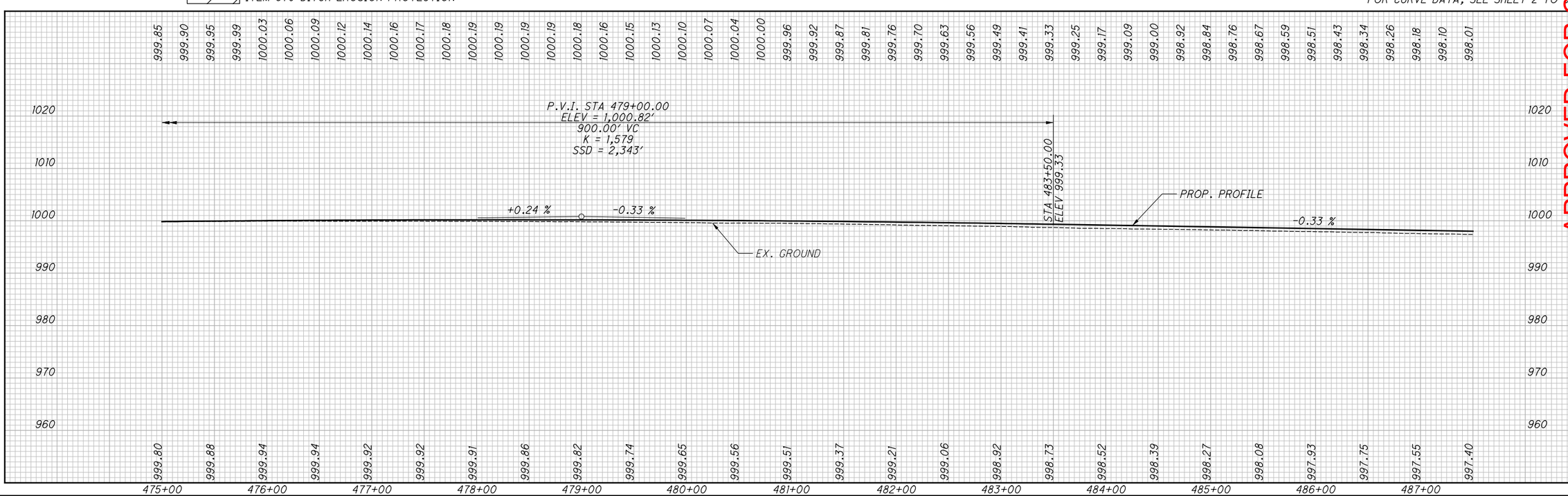


LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED TDP
CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

PLAN AND PROFILE
STA. 475+00.00 TO STA. 487+50.00

MAD-70-8.62

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NO.	DATE	DESCRIPTION

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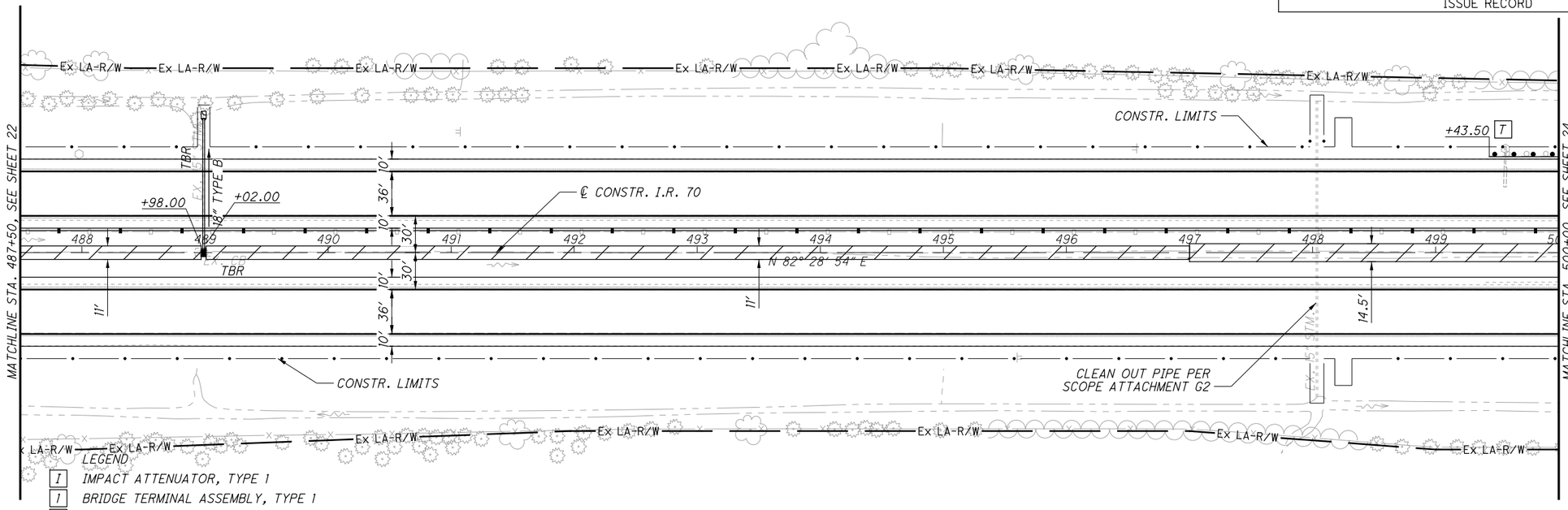
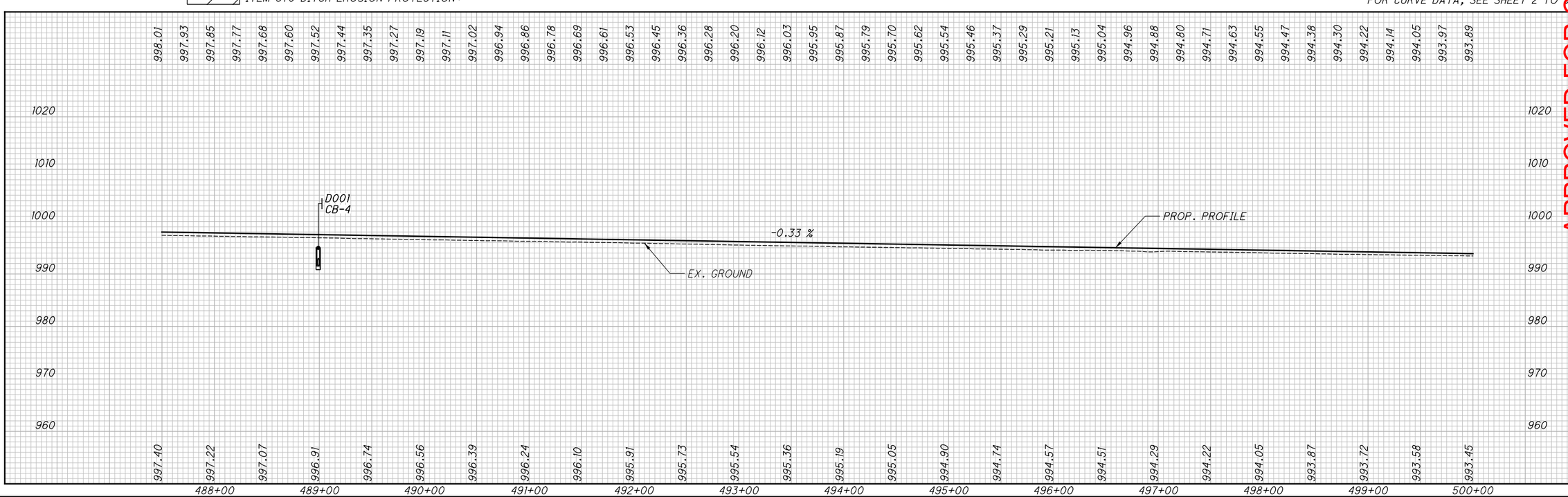


LEGEND

I	IMPACT ATTENUATOR, TYPE 1
1	BRIDGE TERMINAL ASSEMBLY, TYPE 1
2	BRIDGE TERMINAL ASSEMBLY, TYPE 2
E	ANCHOR ASSEMBLY, MGS TYPE E
T	ANCHOR ASSEMBLY, MGS TYPE T
B	ANCHOR ASSEMBLY, MGS TYPE B
	ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP CHECKED MJC

PLAN AND PROFILE

STA. 487+50.00 TO STA. 500+00.00

MAD-70-8.62

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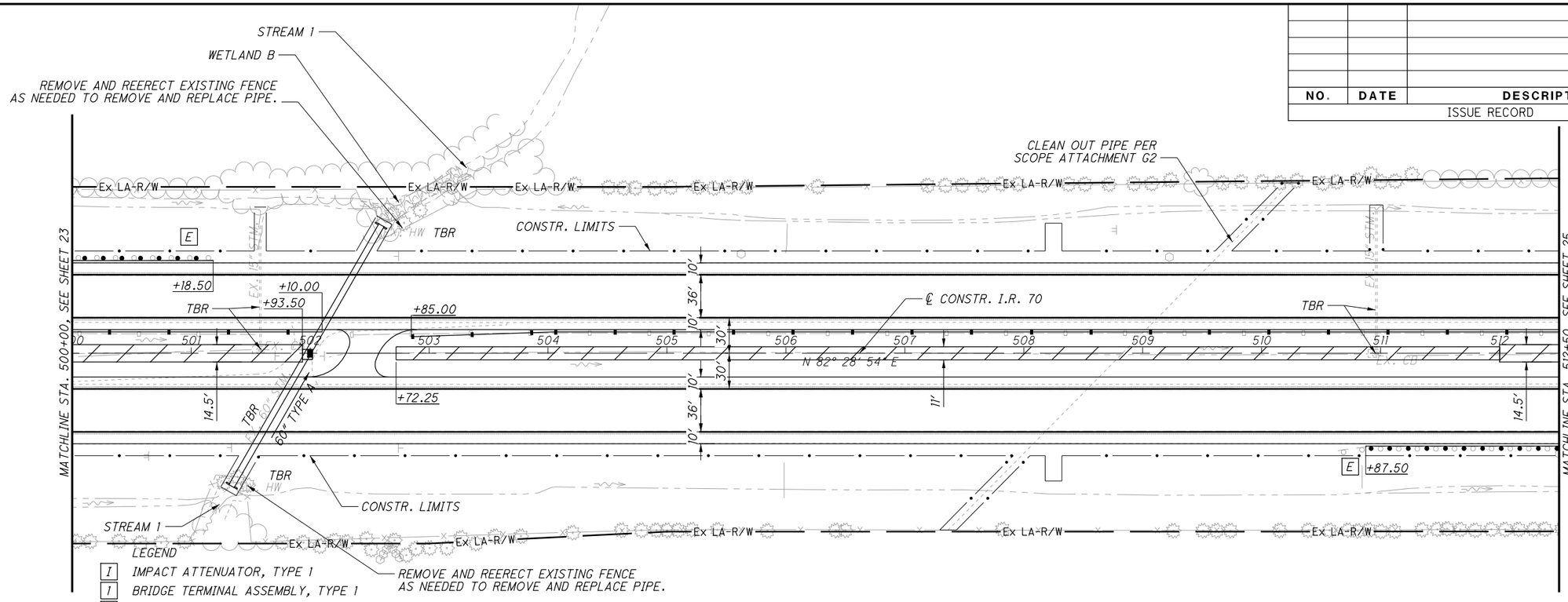

LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 500+00.00 TO STA. 512+50.00

MAD-70-8.62

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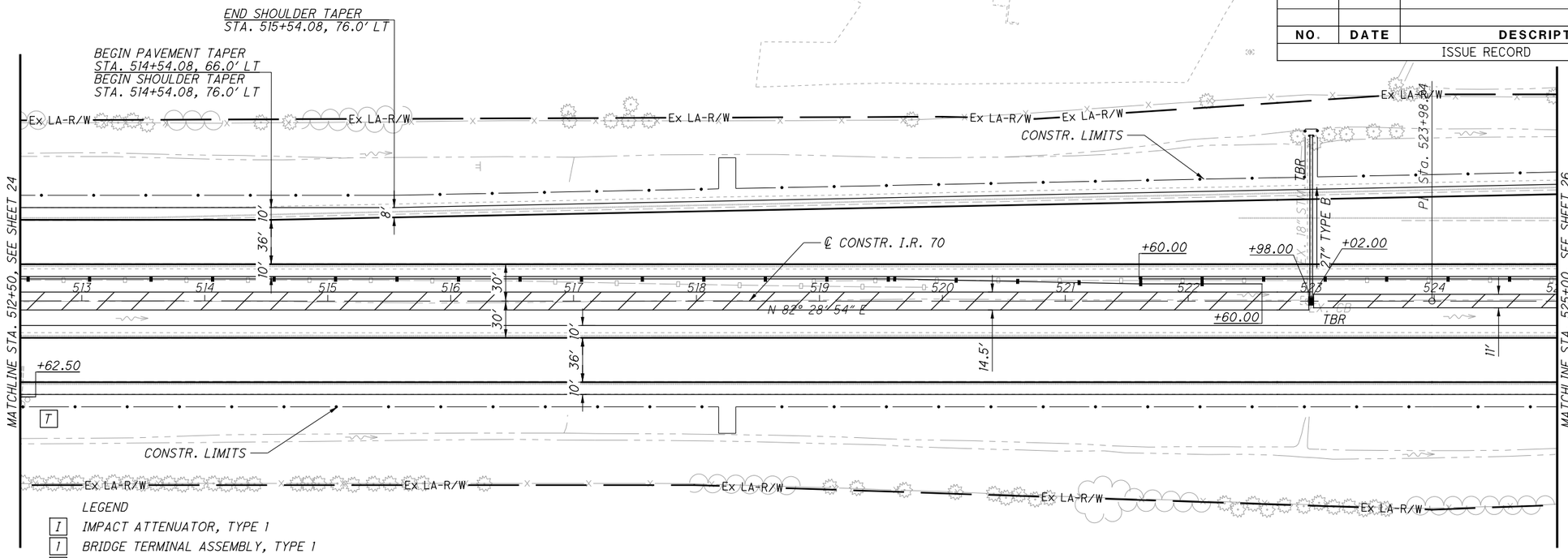
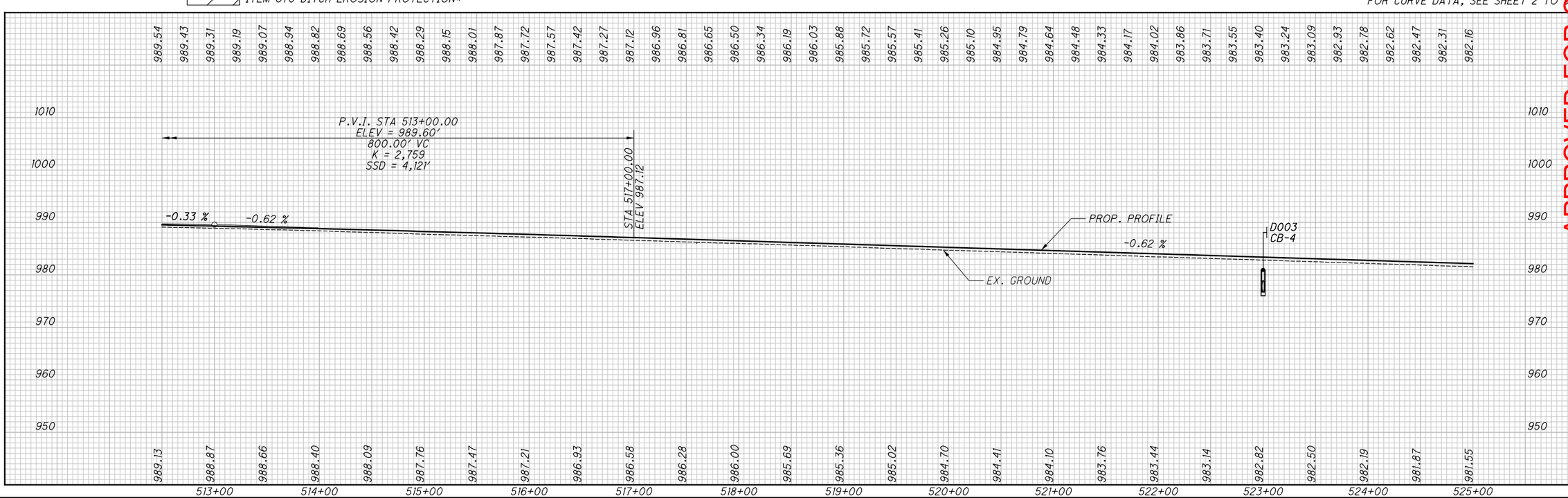


LEGEND

- [I] IMPACT ATTENUATOR, TYPE 1
- [1] BRIDGE TERMINAL ASSEMBLY, TYPE 1
- [2] BRIDGE TERMINAL ASSEMBLY, TYPE 2
- [E] ANCHOR ASSEMBLY, MGS TYPE E
- [T] ANCHOR ASSEMBLY, MGS TYPE T
- [B] ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 512+50.00 TO STA. 525+00.00

MAD-70-8.62

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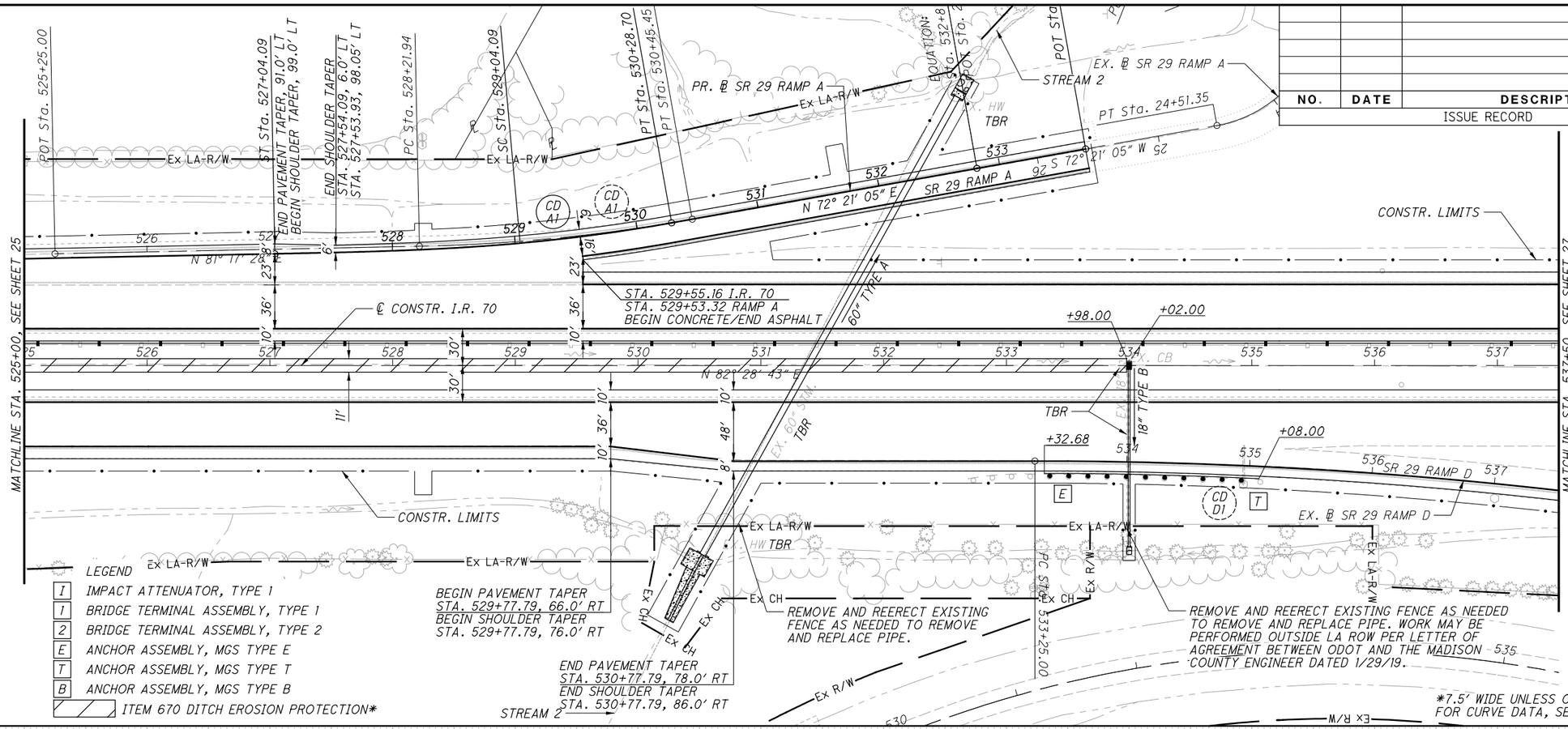
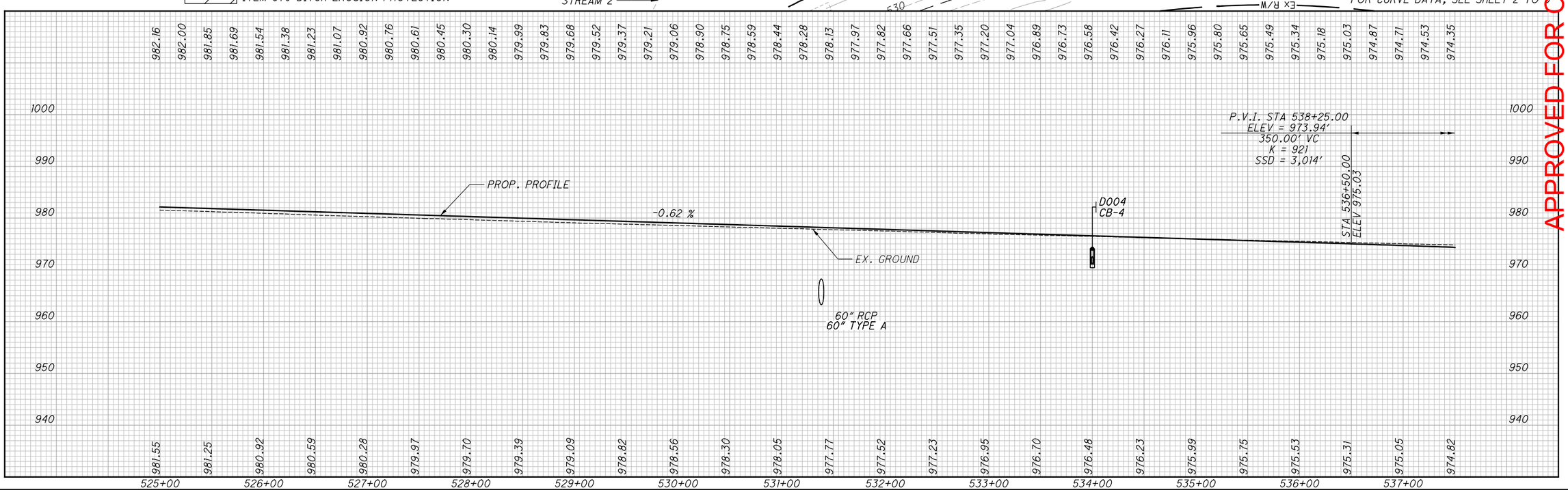
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*



HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 525+00.00 TO STA. 537+50.00

MAD-70-8.62

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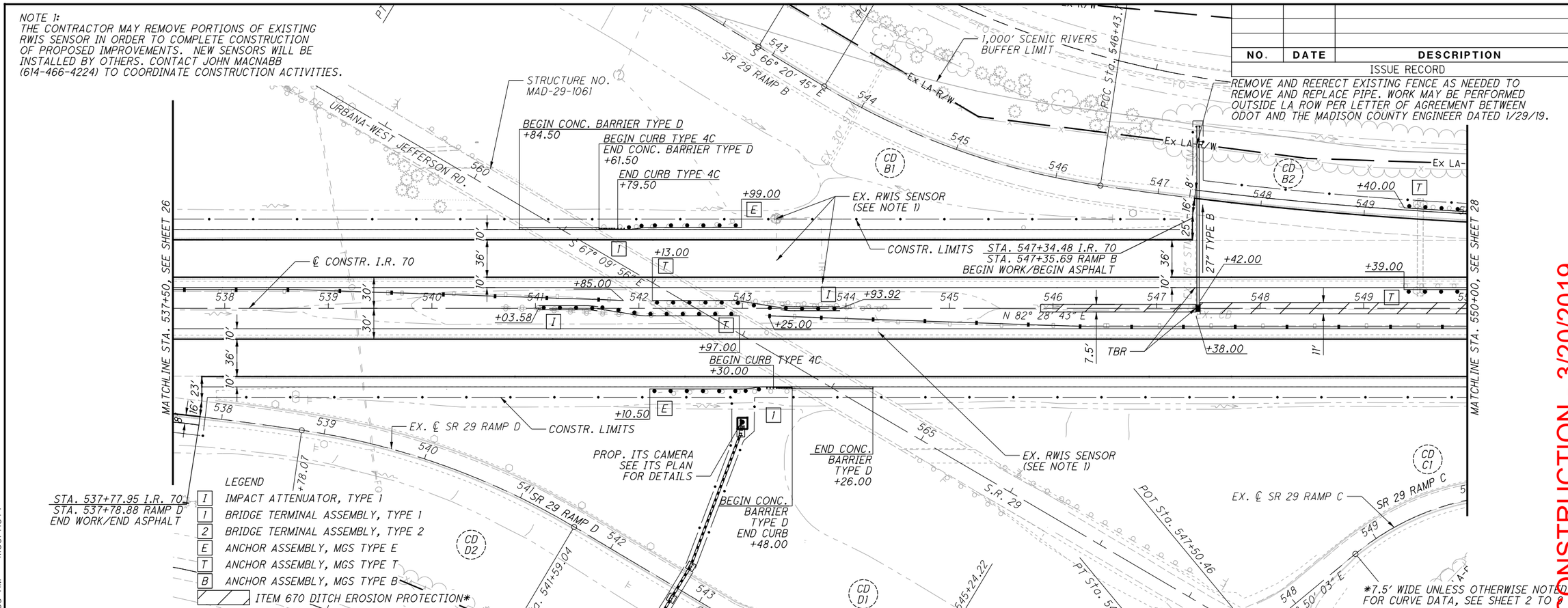
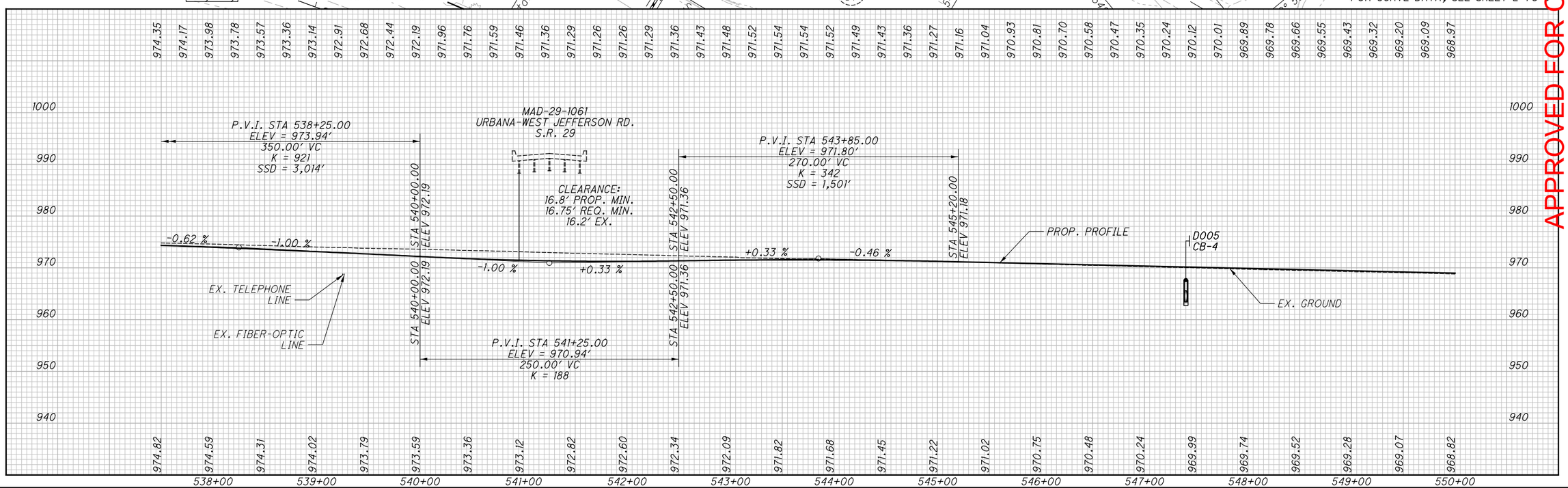
NOTE 1:
THE CONTRACTOR MAY REMOVE PORTIONS OF EXISTING RWIS SENSOR IN ORDER TO COMPLETE CONSTRUCTION OF PROPOSED IMPROVEMENTS. NEW SENSORS WILL BE INSTALLED BY OTHERS. CONTACT JOHN MACNABB (614-466-4224) TO COORDINATE CONSTRUCTION ACTIVITIES.

NO.	DATE	DESCRIPTION
		ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 537+50.00 TO STA. 550+00.00

MAD-70-8.62

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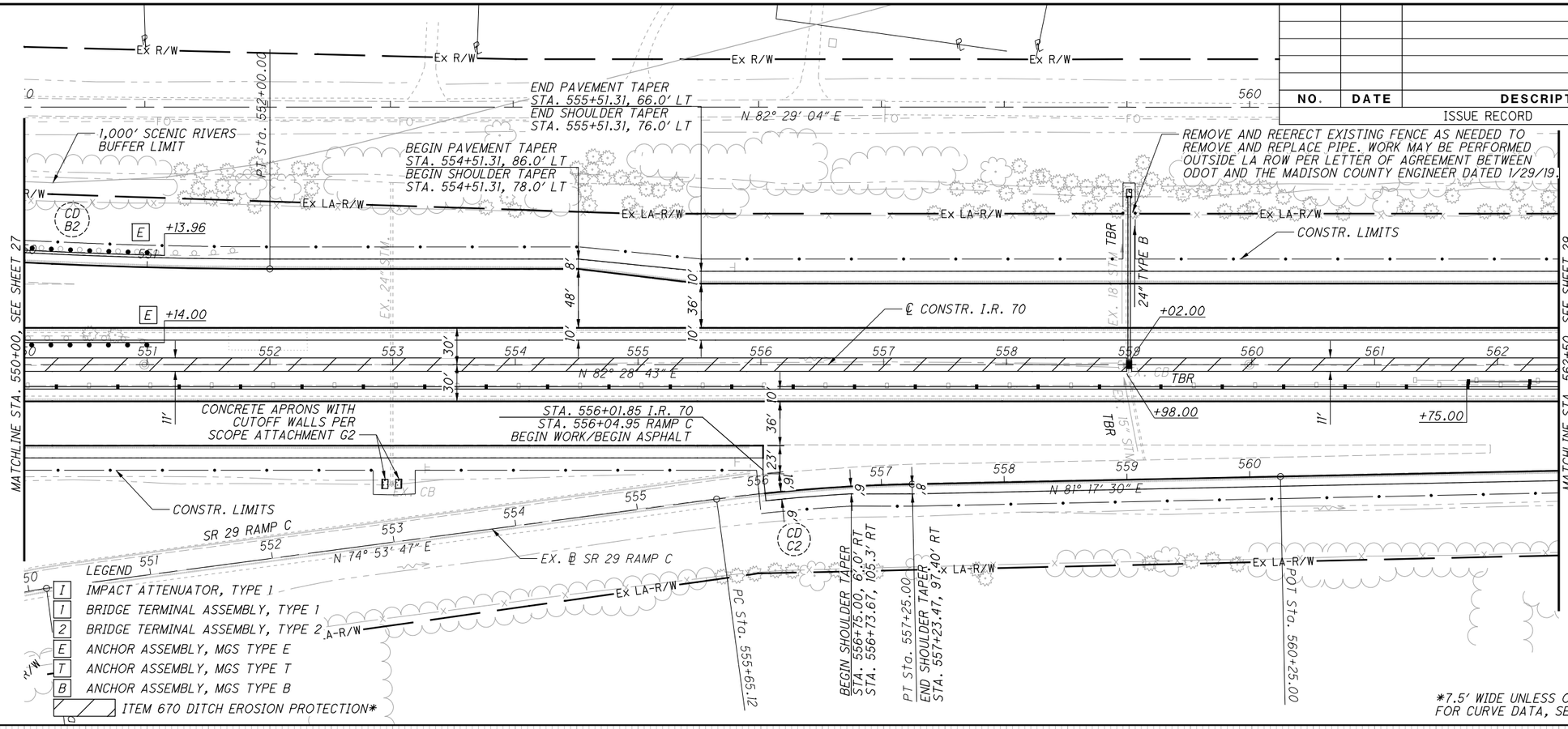
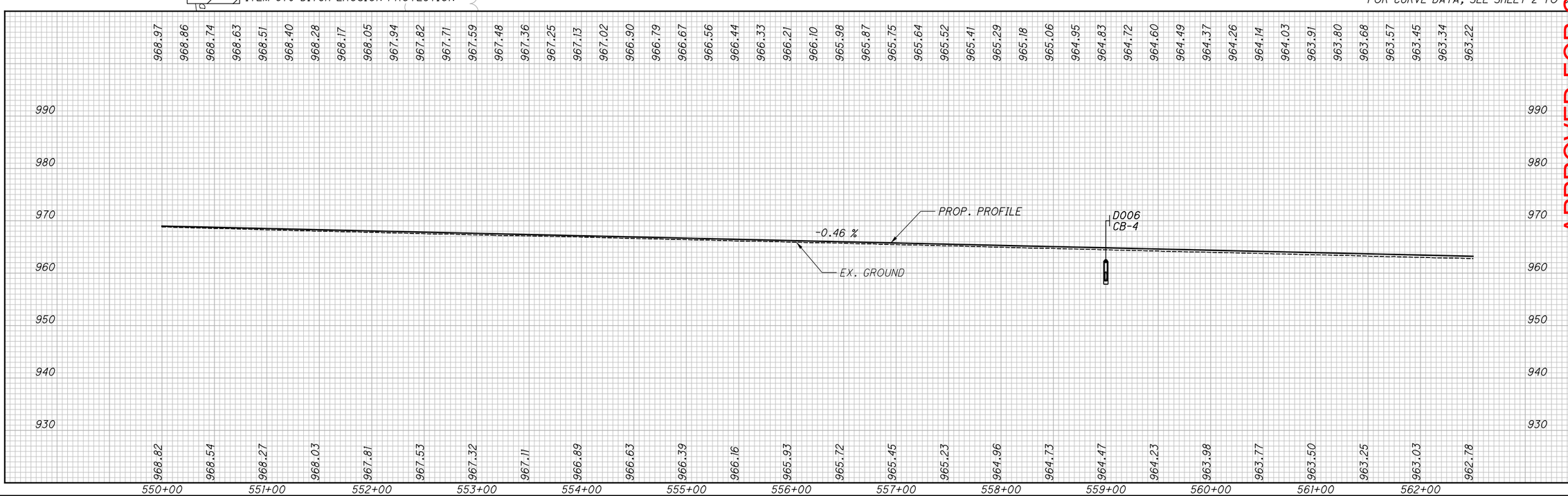
NO.	DATE	DESCRIPTION
		ISSUE RECORD





APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED TDP
CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

PLAN AND PROFILE
STA. 550+00.00 TO STA. 562+50.00

MAD-70-8.62

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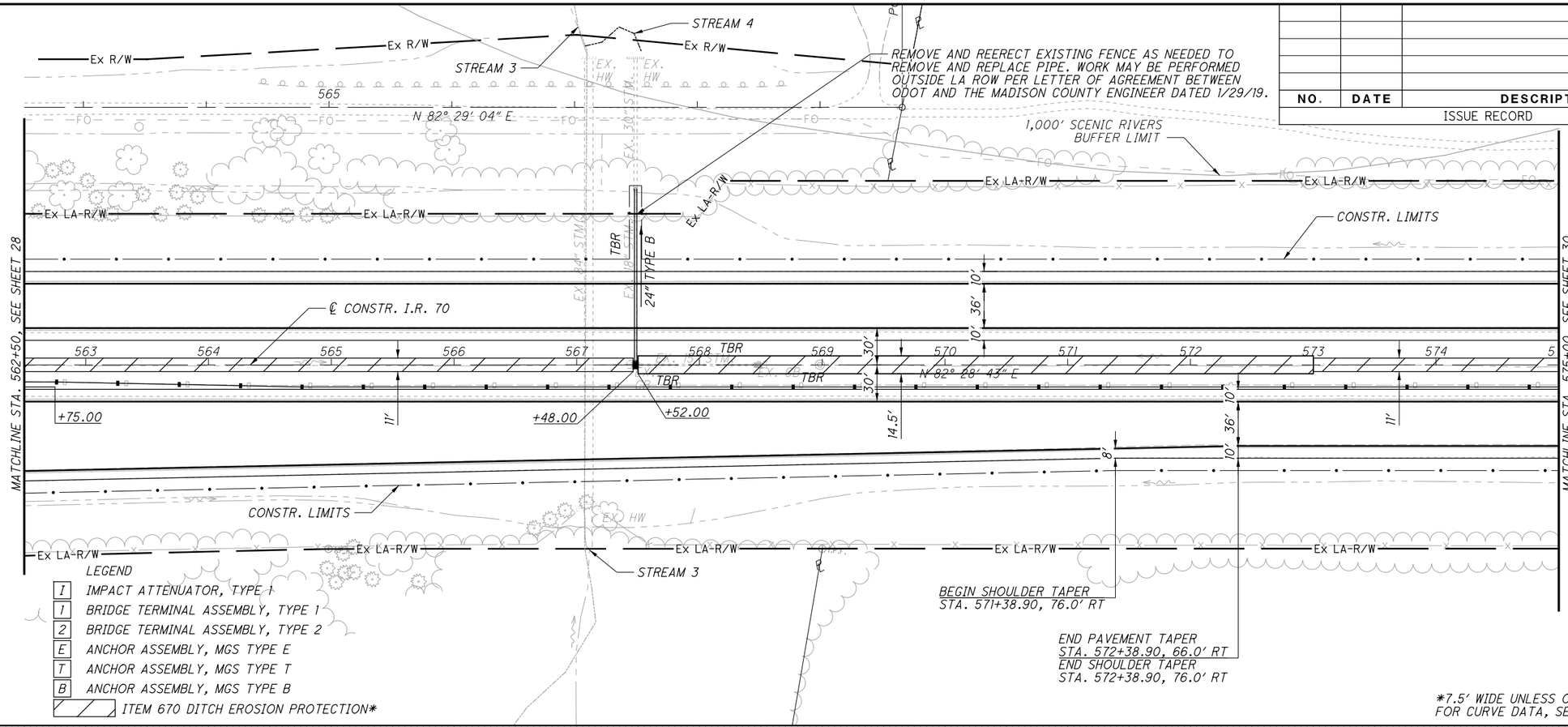
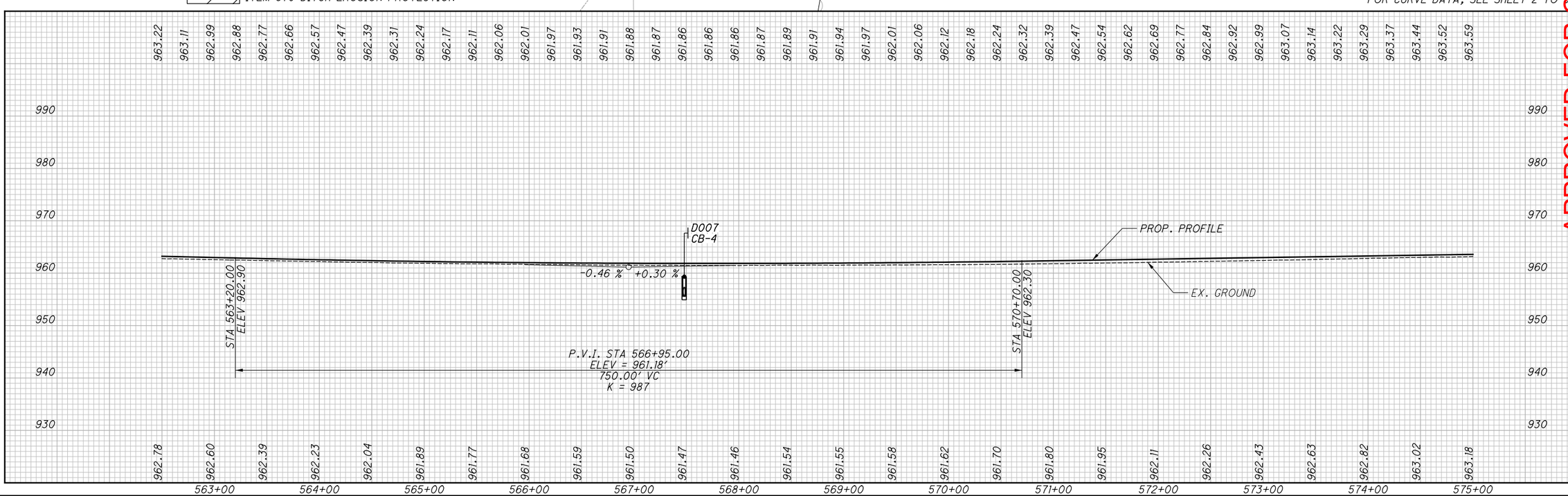
NO.	DATE	DESCRIPTION
		ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 562+50.00 TO STA. 575+00.00

MAD-70-8.62

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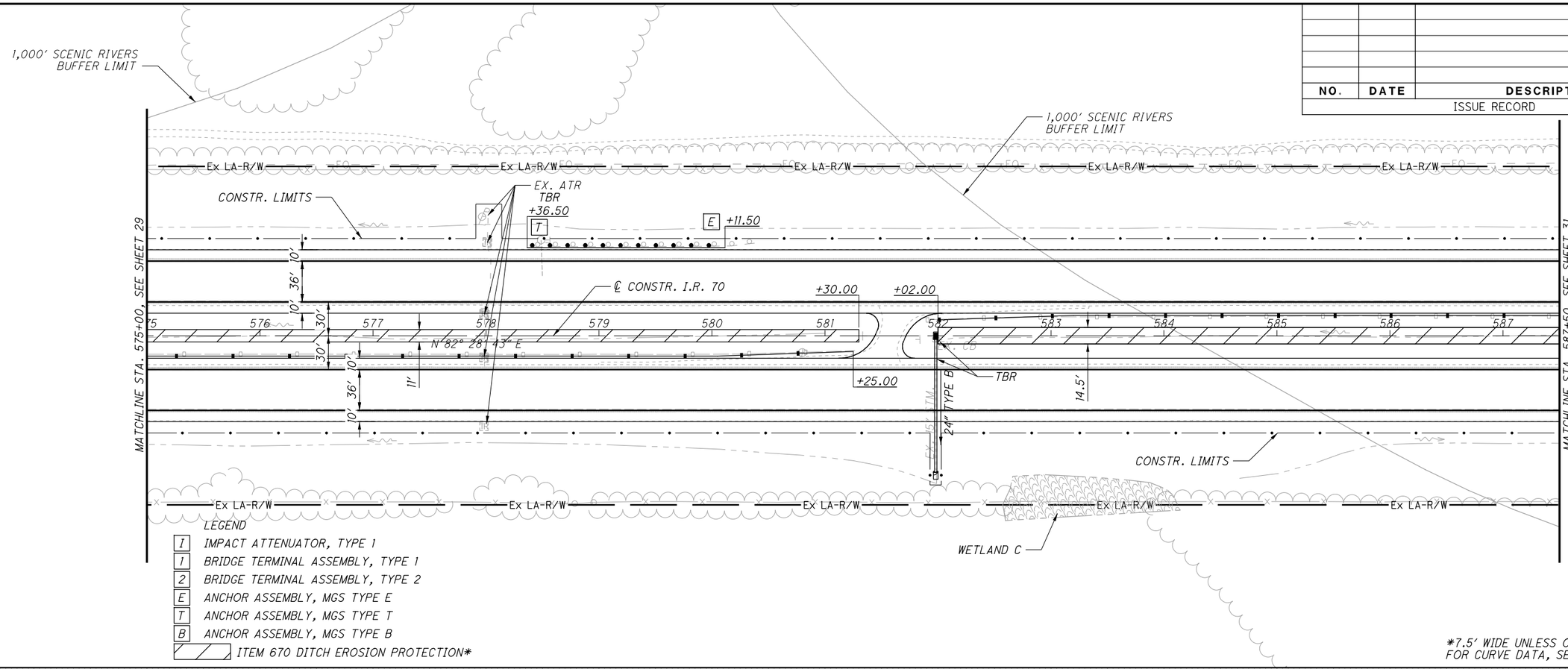
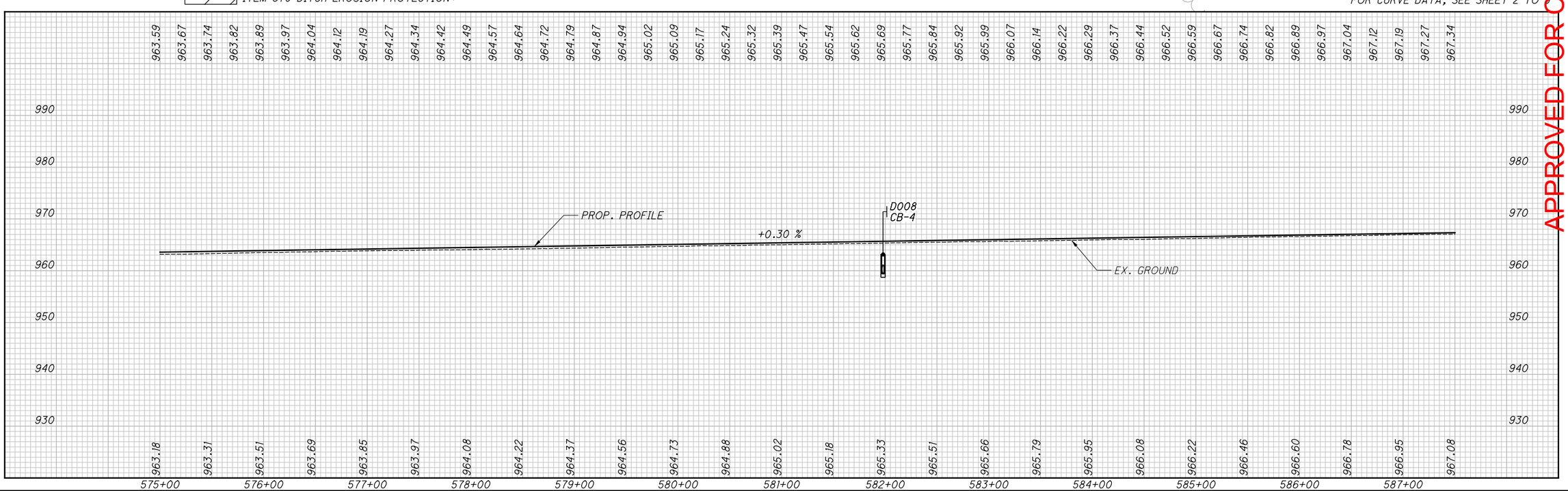


LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 575+00.00 TO STA. 587+50.00

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

MAD-70-8.62

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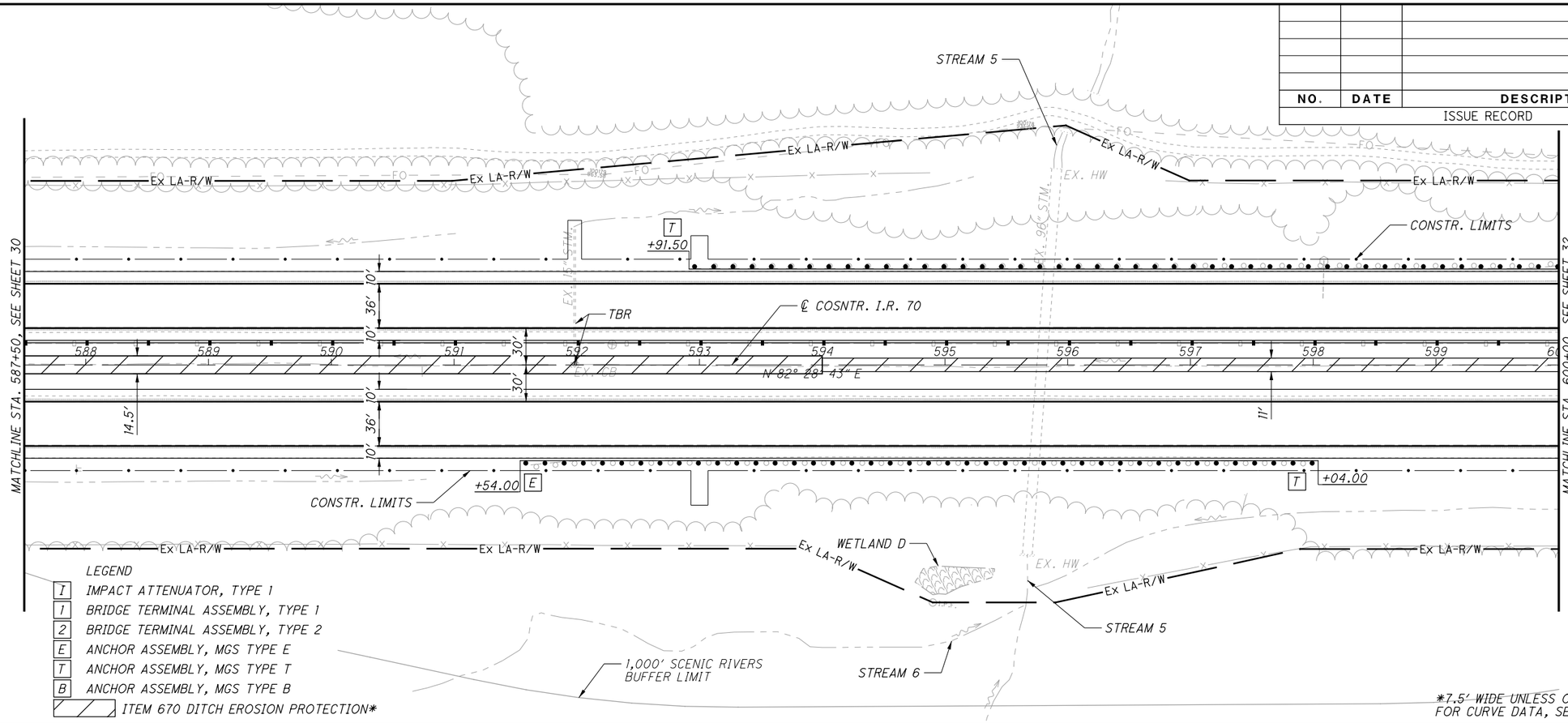
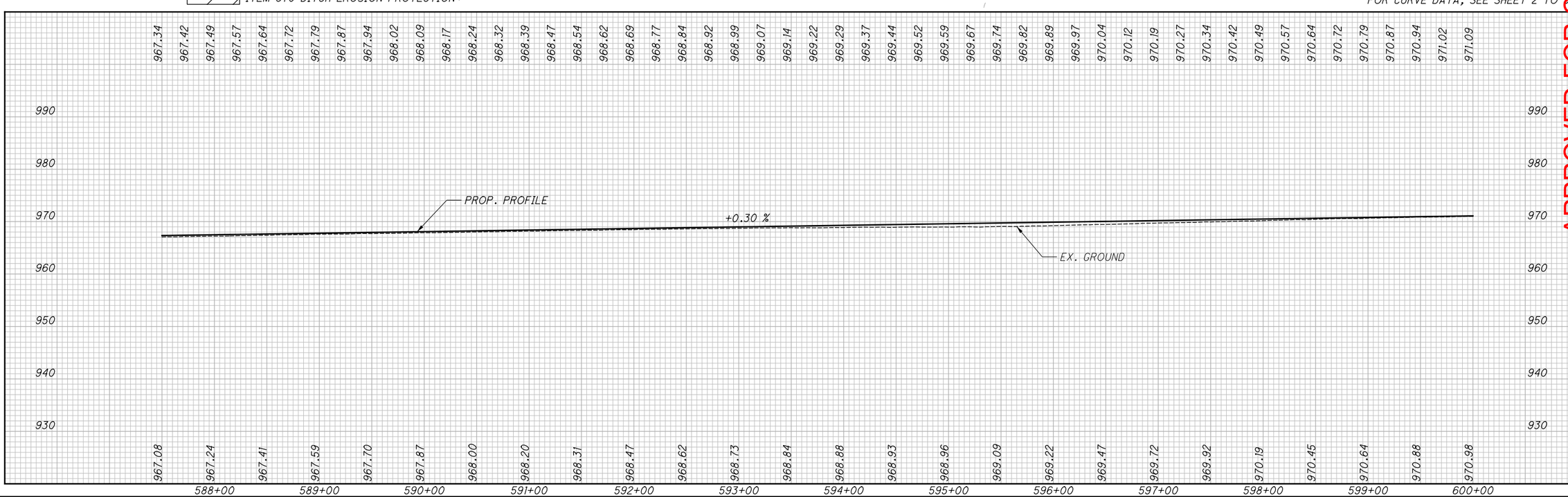
NO.	DATE	DESCRIPTION

ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 587+50.00 TO STA. 600+00.00

MAD-70-8.62

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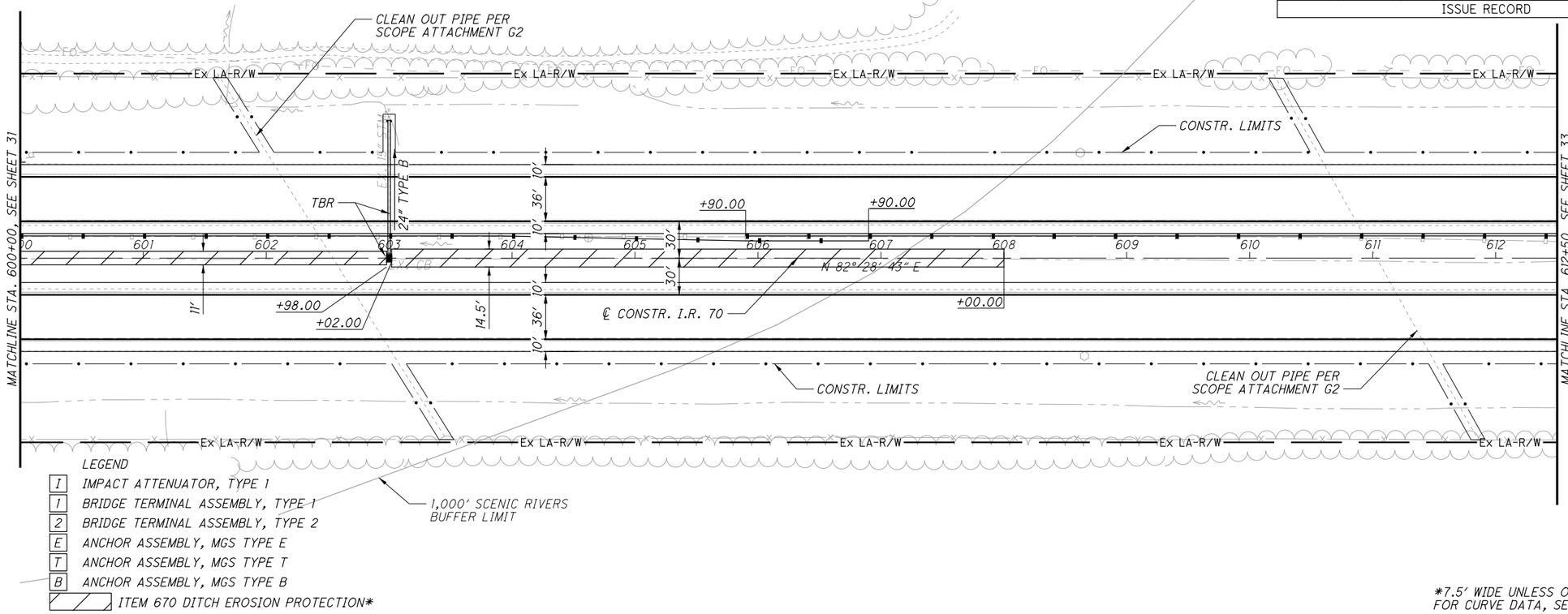
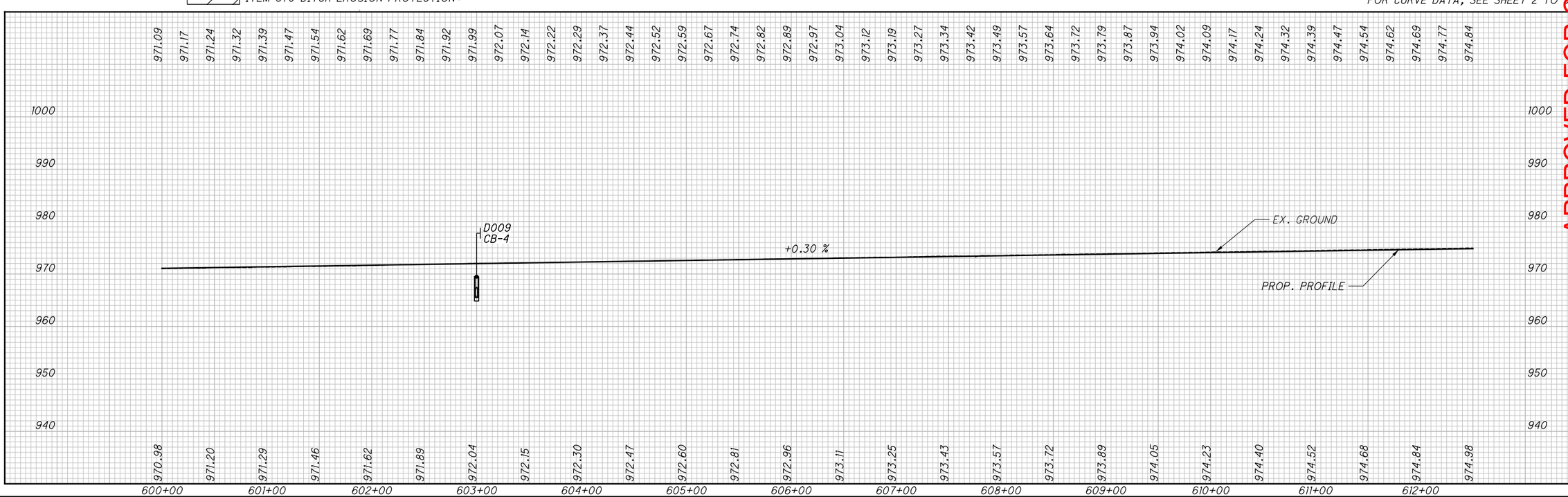
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

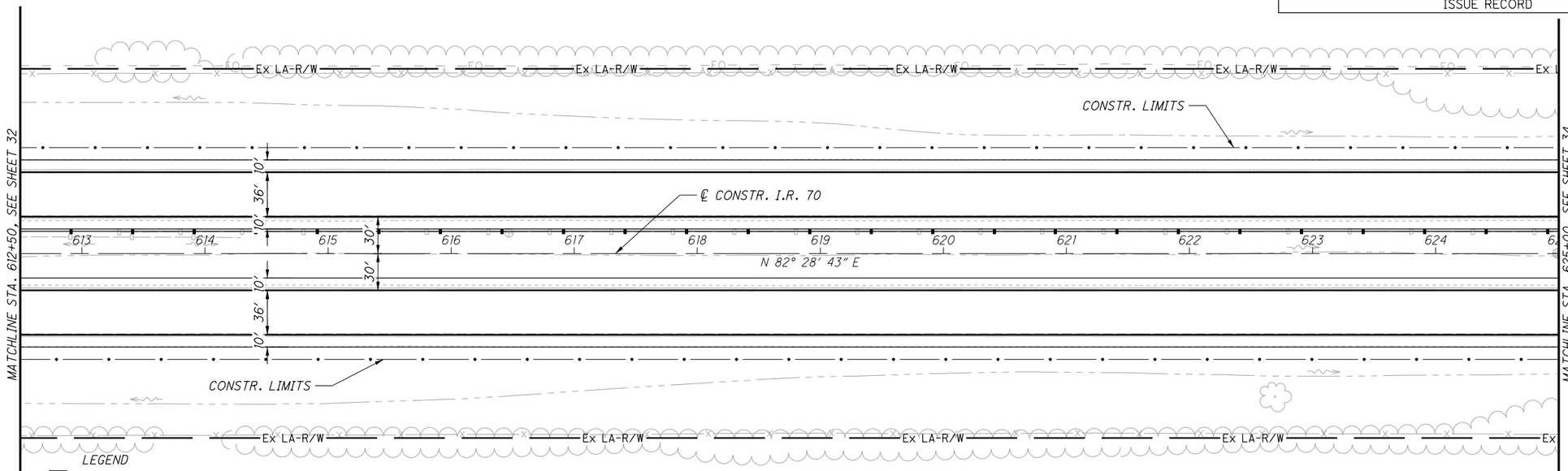
PLAN AND PROFILE
STA. 600+00.00 TO STA. 612+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP012.dgn Sheet 3/20/2019 9:41:43 AM mcornett

NO.	DATE	DESCRIPTION

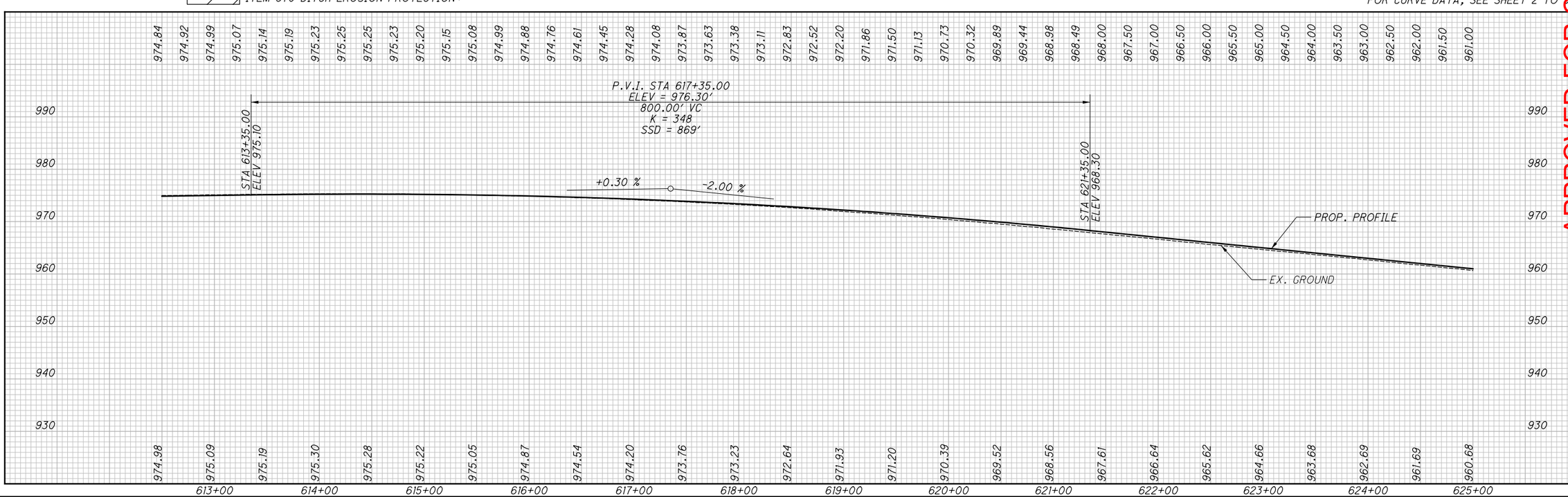
ISSUE RECORD



LEGEND

- [1] IMPACT ATTENUATOR, TYPE 1
- [1] BRIDGE TERMINAL ASSEMBLY, TYPE 1
- [2] BRIDGE TERMINAL ASSEMBLY, TYPE 2
- [E] ANCHOR ASSEMBLY, MGS TYPE E
- [T] ANCHOR ASSEMBLY, MGS TYPE T
- [B] ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5′ WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE

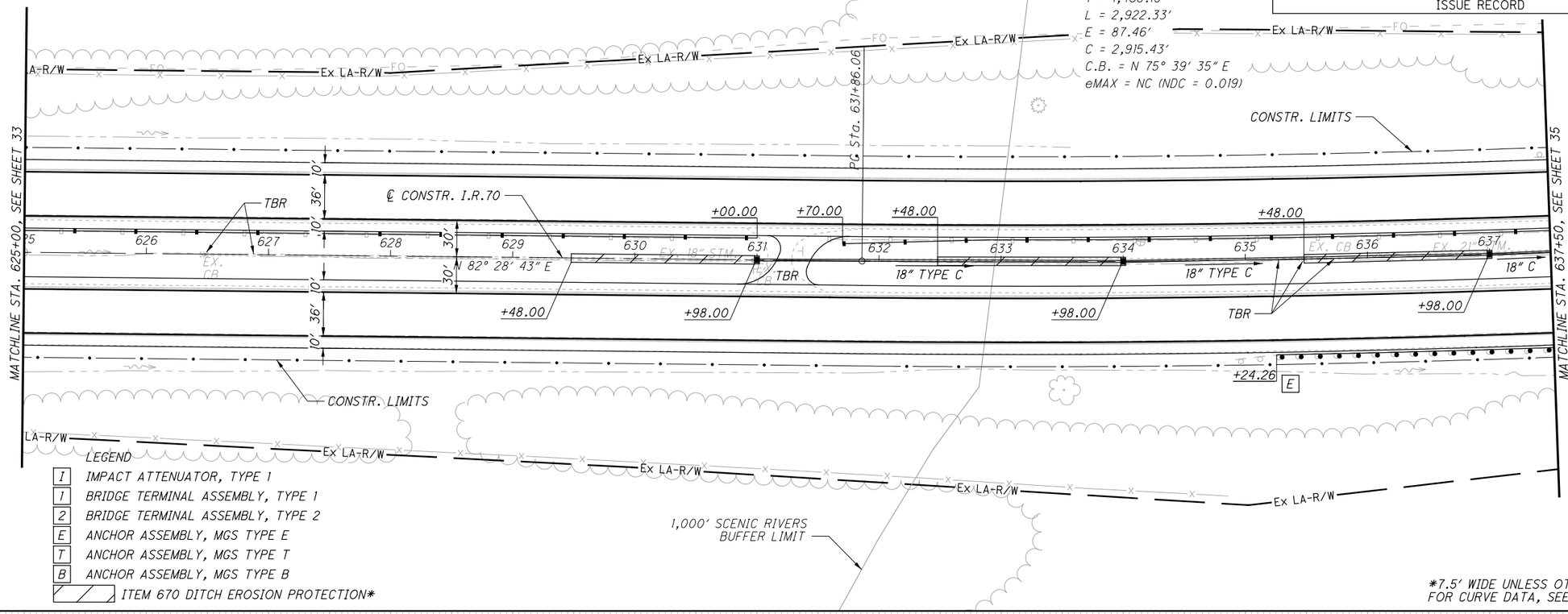
STA. 612+50.00 TO STA. 625+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP013.dgn Sheet 3/20/2019 9:41:44 AM mcornett

I.R. 70
P.I. Sta. 646+54.16
Δ = 13° 38′ 15″ (LT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 1,468.10′
L = 2,922.33′
E = 87.46′
C = 2,915.43′
C.B. = N 75° 39′ 35″ E
eMAX = NC (NDC = 0.019)

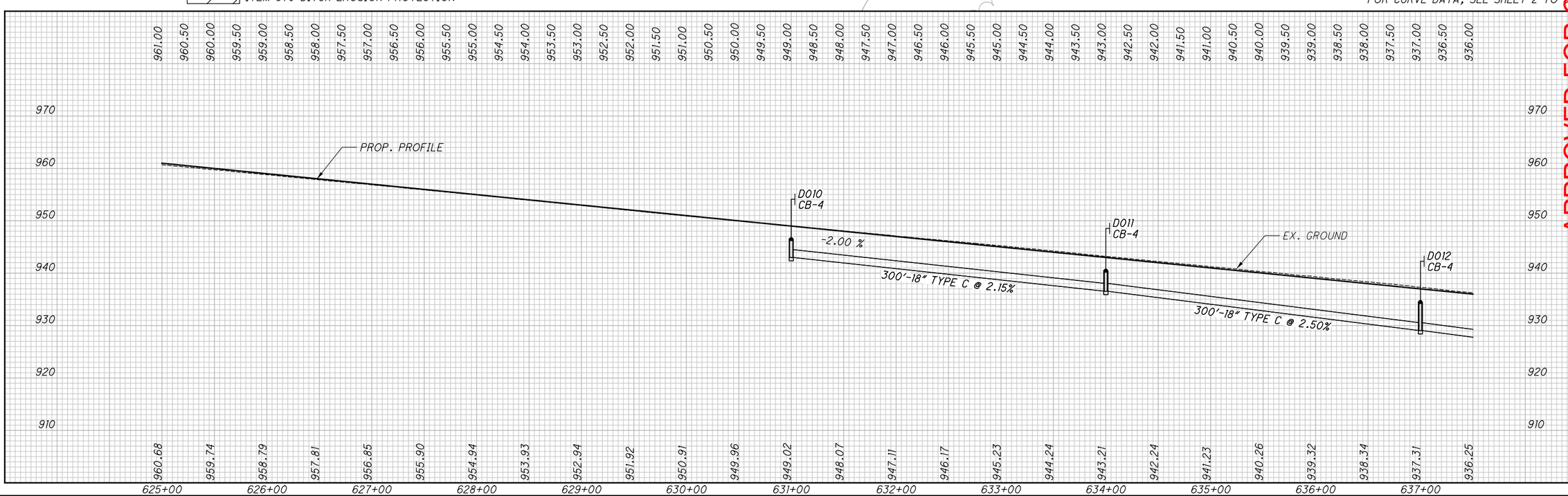
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

I	IMPACT ATTENUATOR, TYPE 1
1	BRIDGE TERMINAL ASSEMBLY, TYPE 1
2	BRIDGE TERMINAL ASSEMBLY, TYPE 2
E	ANCHOR ASSEMBLY, MGS TYPE E
T	ANCHOR ASSEMBLY, MGS TYPE T
B	ANCHOR ASSEMBLY, MGS TYPE B
	ITEM 670 DITCH EROSION PROTECTION*

*7.5′ WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

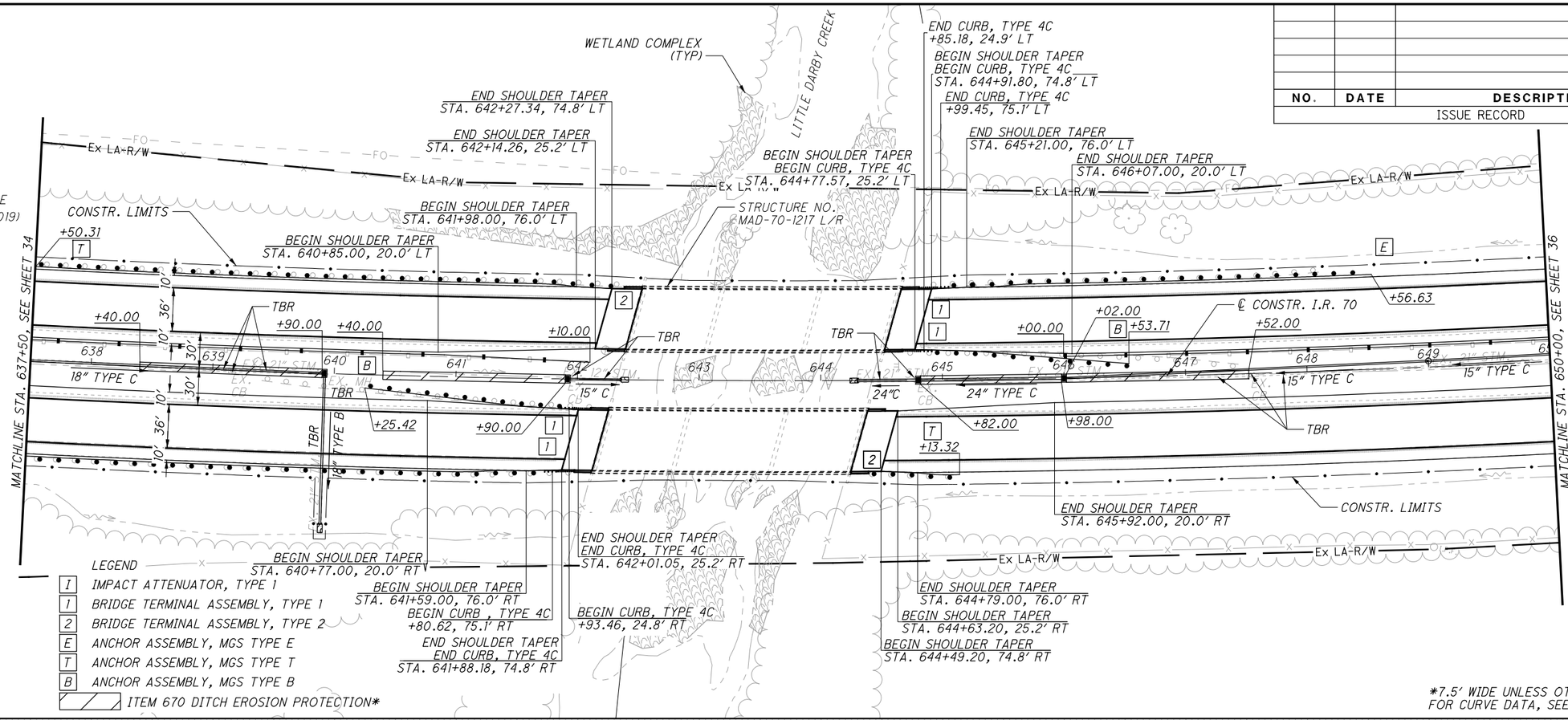
PLAN AND PROFILE
STA. 625+00.00 TO STA. 637+50.00

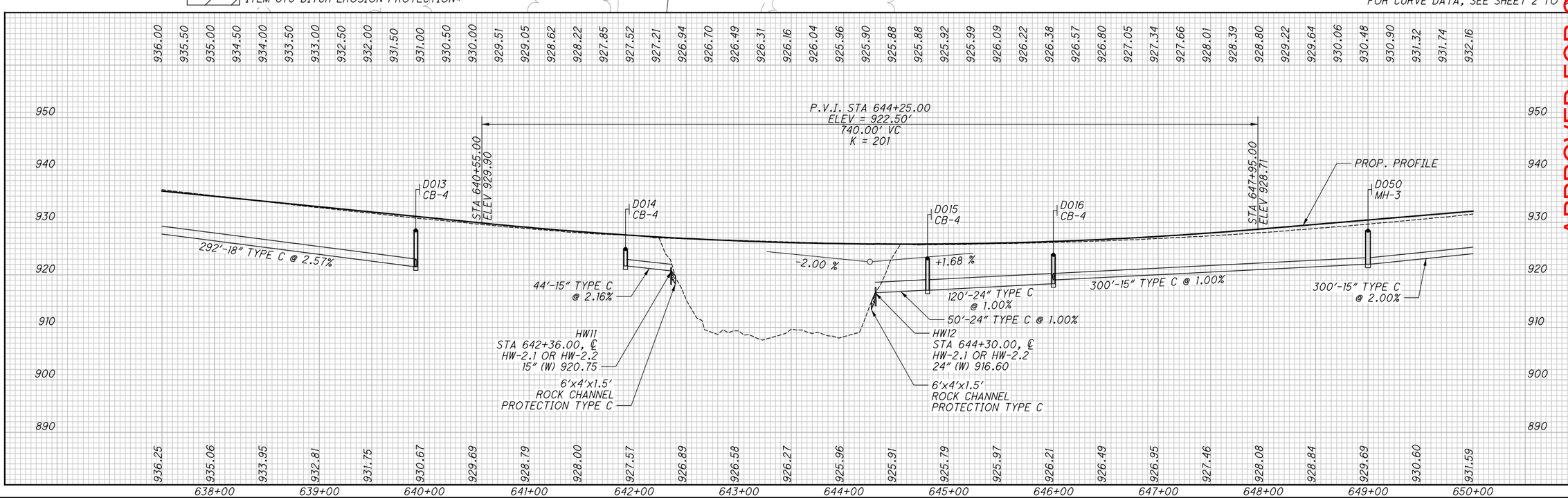
MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GP014.dgn Sheet 3/20/2019 9:41:46 AM mcornett

I.R. 70
P.I. Sta. 646+54.16
Δ = 13° 38′ 15″ (LT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 1,468.10′
L = 2,922.33′
E = 87.46′
C = 2,915.43′
C.B. = N 75° 39′ 35″ E
eMAX = NC (NDC = 0.019)

NO.	DATE	DESCRIPTION
		ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

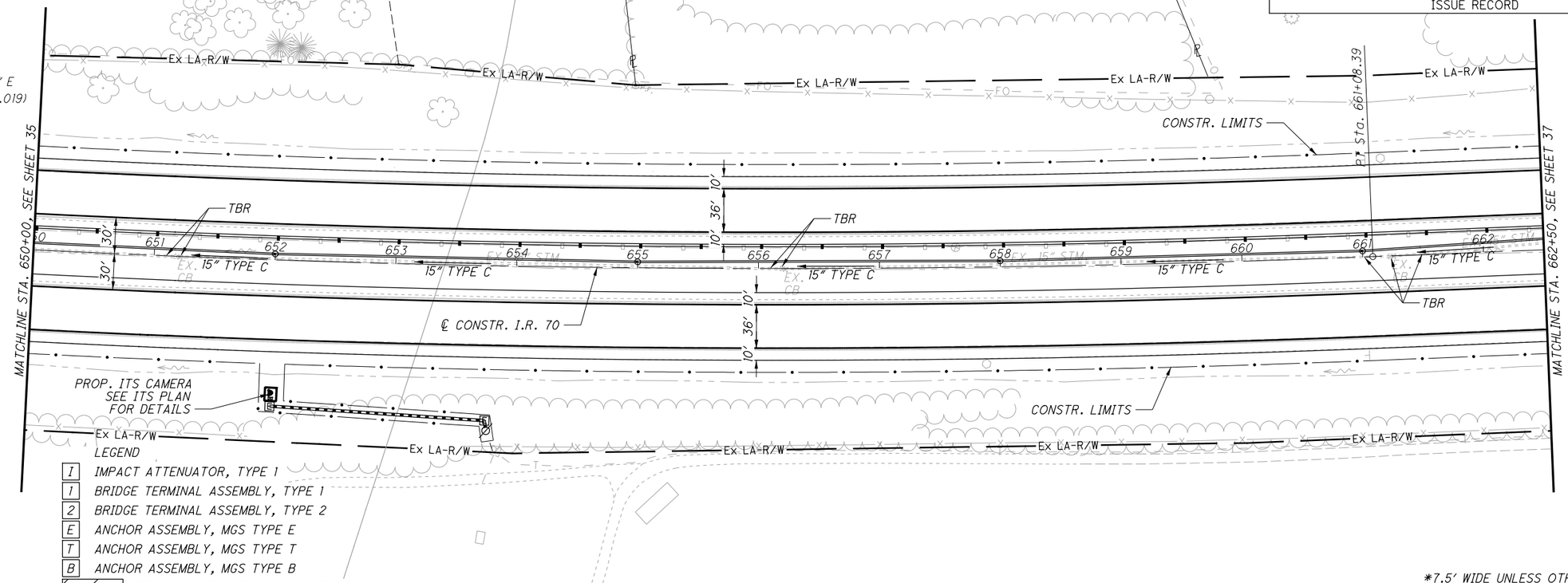
PLAN AND PROFILE
STA. 637+50.00 TO STA. 650+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP015.dgn Sheet 3/20/2019 9:41:48 AM mcornett

I.R. 70
P.I. Sta. 646+54.16
Δ = 13° 38′ 15″ (LT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 1,468.10′
L = 2,922.33′
E = 87.46′
C = 2,915.43′
C.B. = N 75° 39′ 35″ E
eMAX = NC (NDC = 0.019)

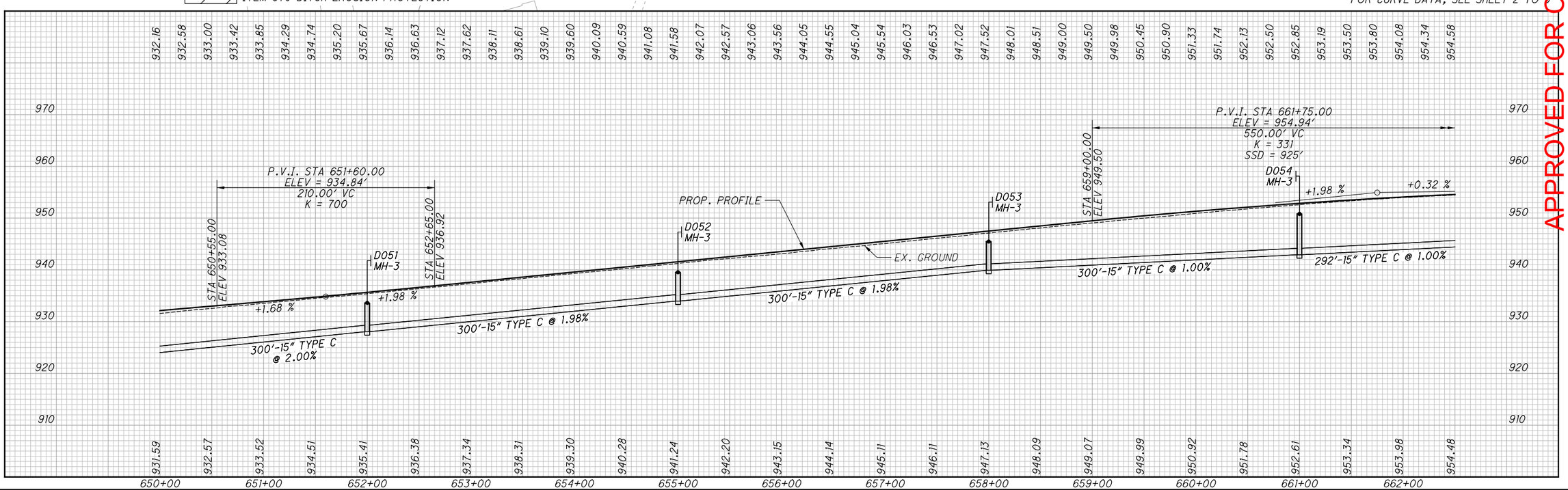
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

I	IMPACT ATTENUATOR, TYPE 1
1	BRIDGE TERMINAL ASSEMBLY, TYPE 1
2	BRIDGE TERMINAL ASSEMBLY, TYPE 2
E	ANCHOR ASSEMBLY, MGS TYPE E
T	ANCHOR ASSEMBLY, MGS TYPE T
B	ANCHOR ASSEMBLY, MGS TYPE B
	ITEM 670 DITCH EROSION PROTECTION*

*7.5′ WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

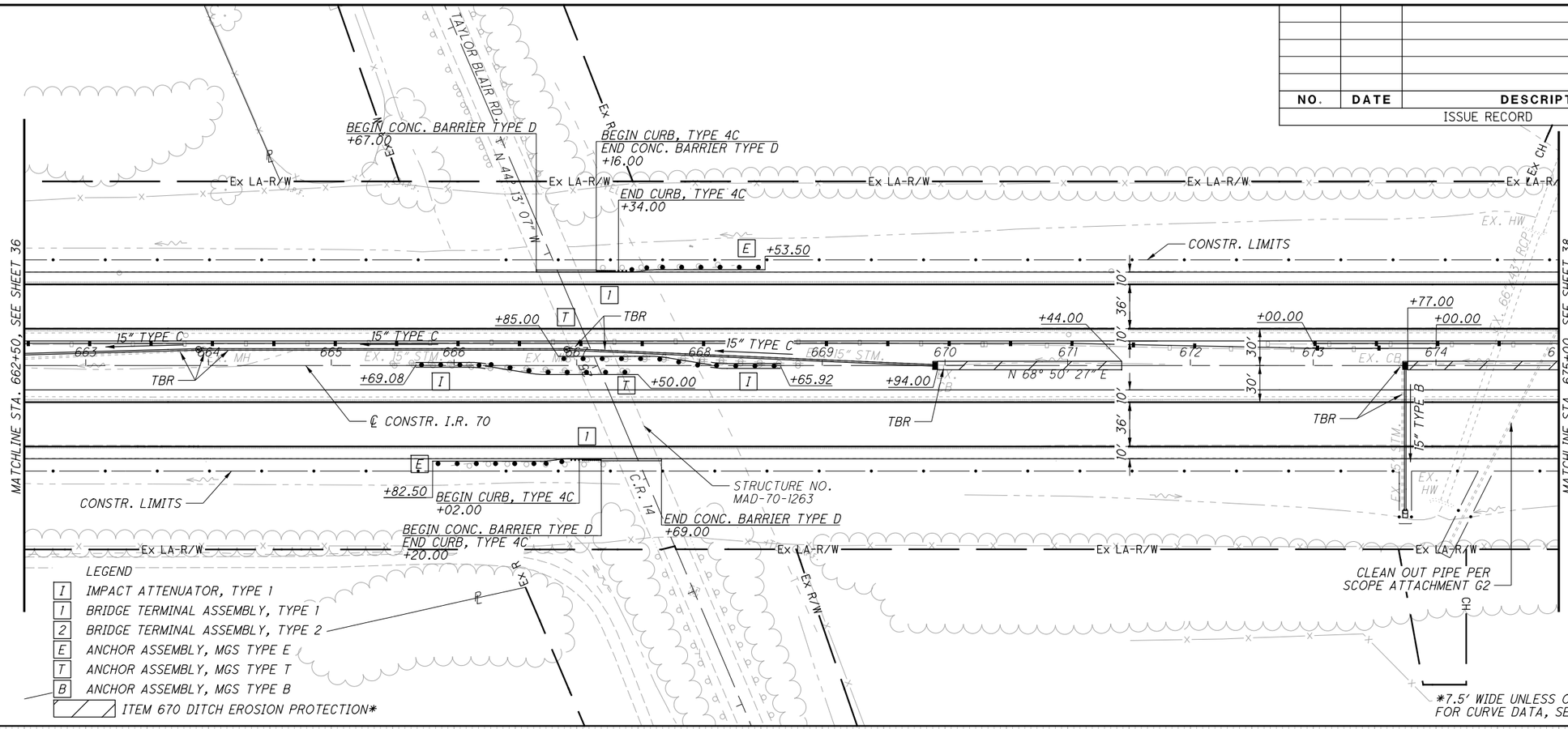
CALCULATED TDP
CHECKED MJC

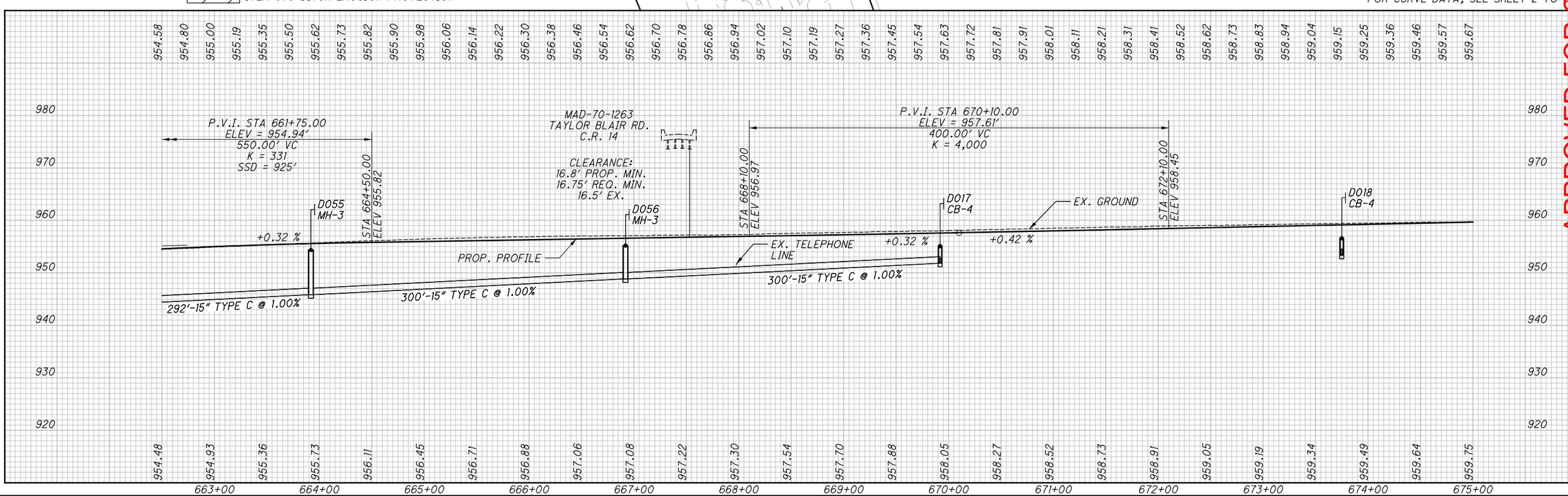
PLAN AND PROFILE
STA. 650+00.00 TO STA. 662+50.00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GP016.dgn Sheet 3/20/2019 9:41:50 AM mcornett

NO.	DATE	DESCRIPTION
		ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

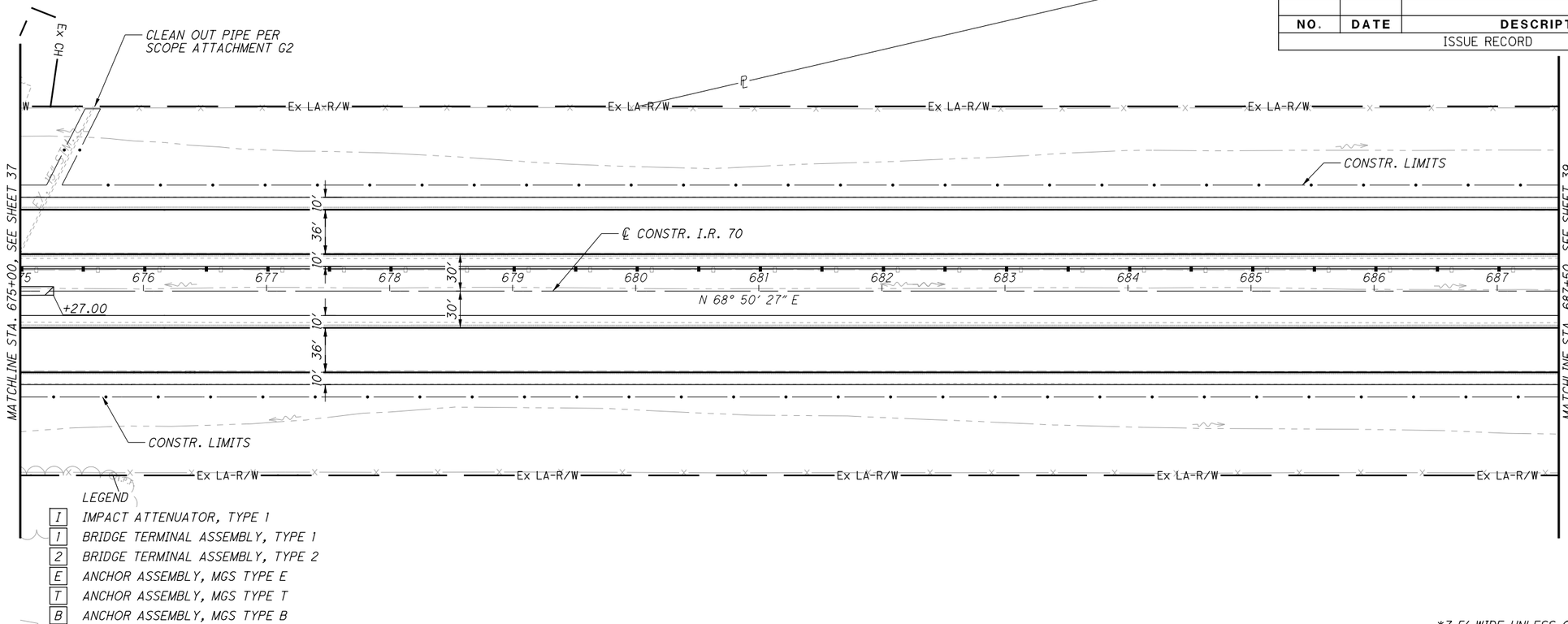
PLAN AND PROFILE
STA. 662+50.00 TO STA. 675+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP017.dgn Sheet 3/20/2019 9:41:52 AM mcornett

NO.	DATE	DESCRIPTION

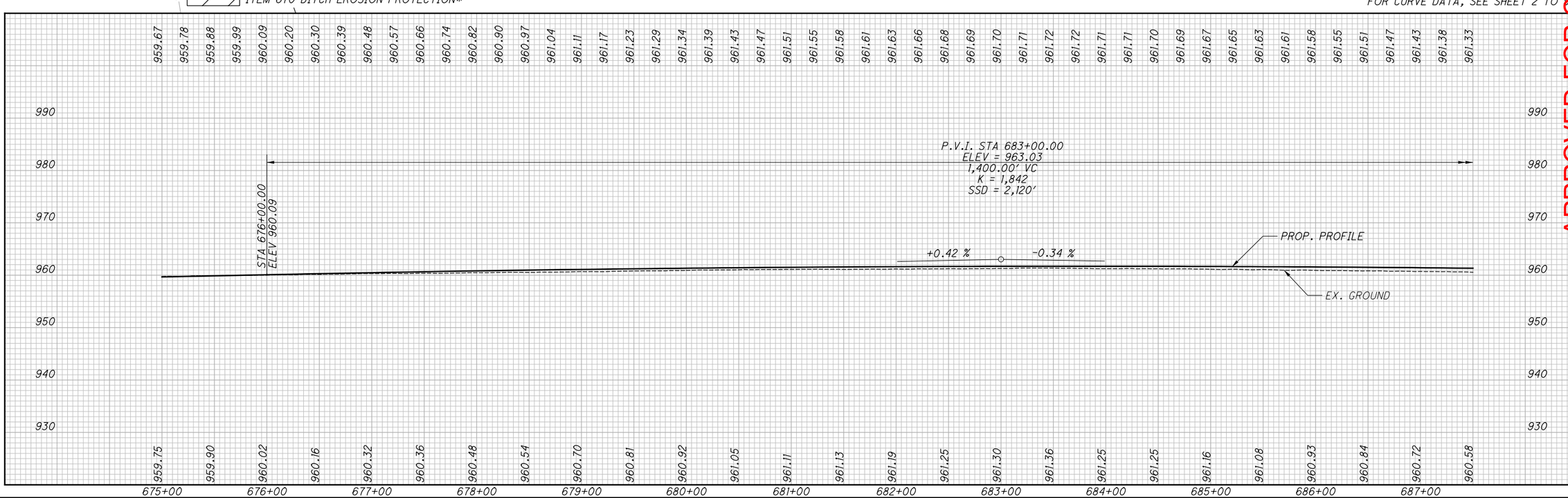
ISSUE RECORD



LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

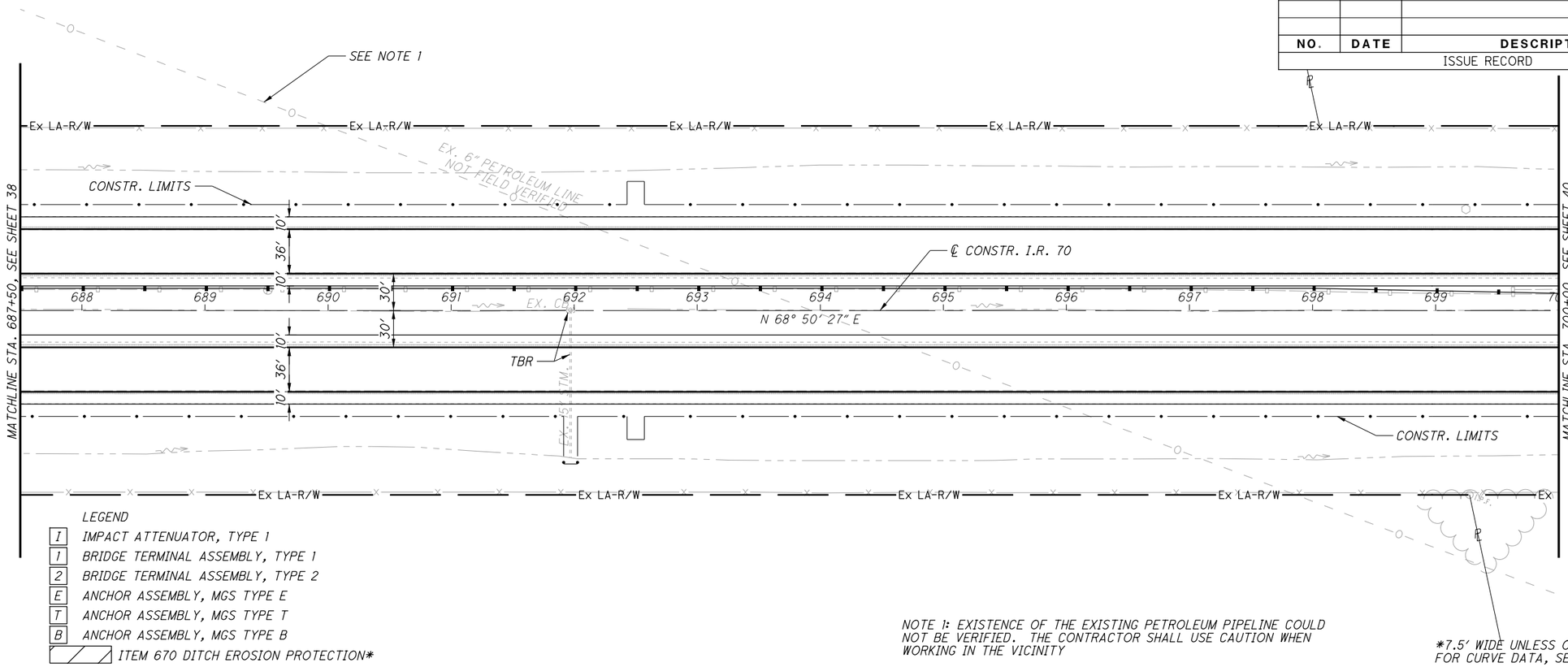
CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 675+00.00 TO STA. 687+50.00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GP018.dgn Sheet 3/20/2019 9:41:54 AM mcornett

NO.	DATE	DESCRIPTION
		ISSUE RECORD

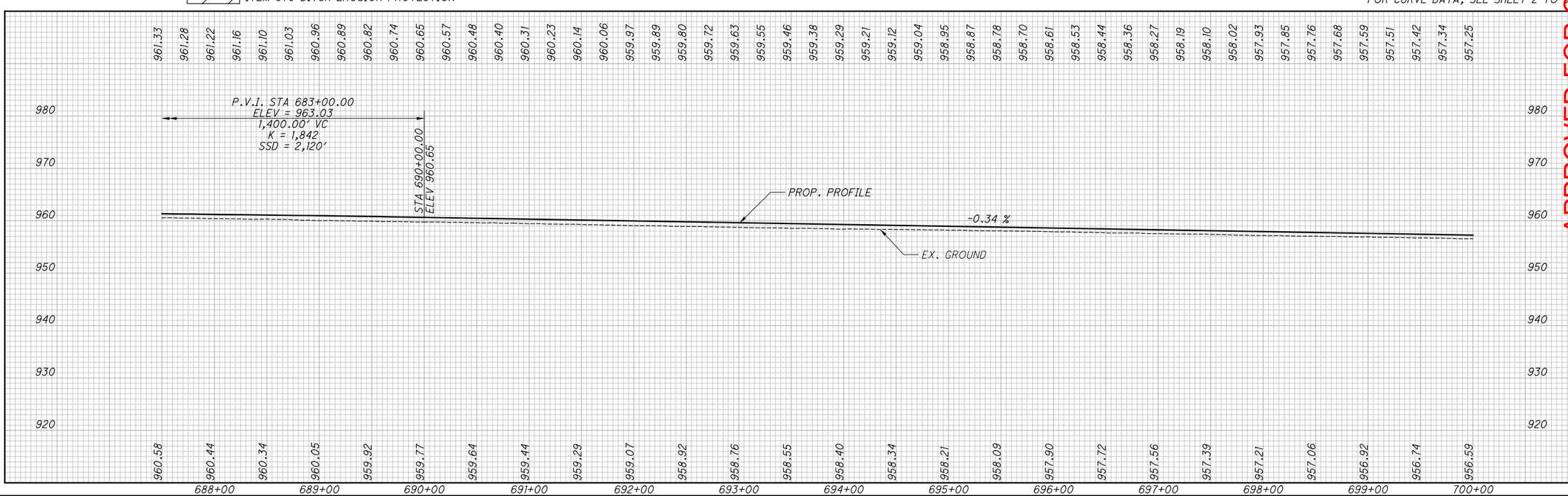


LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

NOTE 1: EXISTENCE OF THE EXISTING PETROLEUM PIPELINE COULD NOT BE VERIFIED. THE CONTRACTOR SHALL USE CAUTION WHEN WORKING IN THE VICINITY

*7.5' WIDE UNLESS OTHERWISE NOTED FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP CHECKED MJC

PLAN AND PROFILE

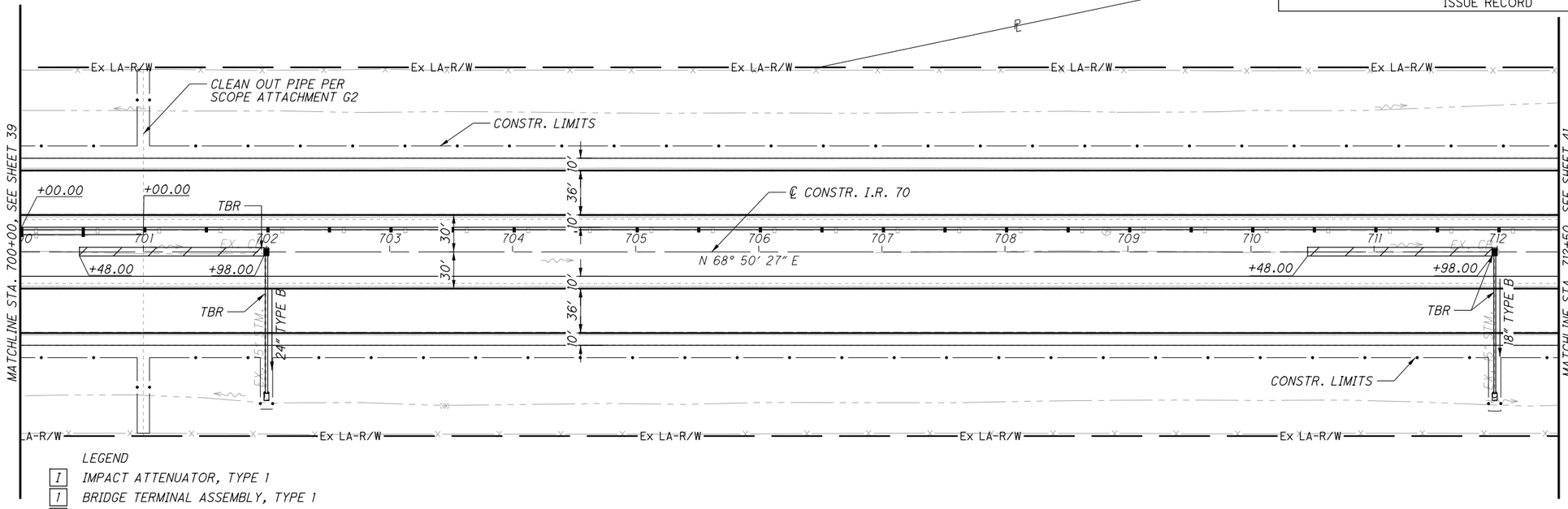
STA. 687+50.00 TO STA. 700+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP019.dgn Sheet 3/20/2019 9:41:55 AM mcornett

NO.	DATE	DESCRIPTION

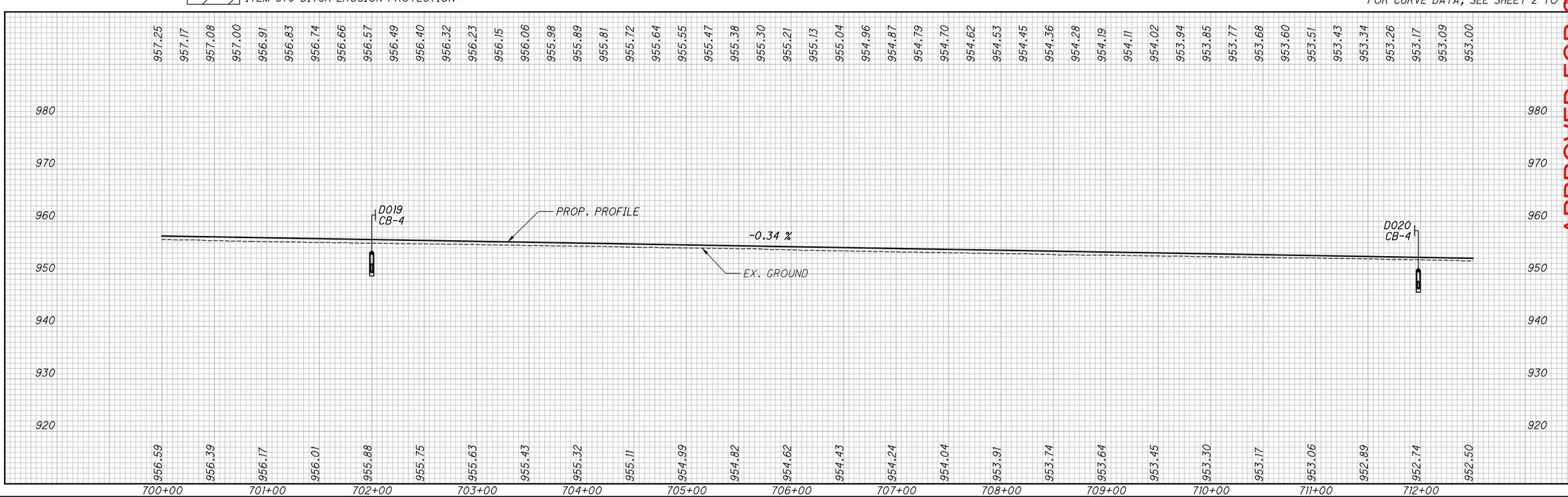
ISSUE RECORD



LEGEND

- [1] IMPACT ATTENUATOR, TYPE 1
- [1] BRIDGE TERMINAL ASSEMBLY, TYPE 1
- [2] BRIDGE TERMINAL ASSEMBLY, TYPE 2
- [E] ANCHOR ASSEMBLY, MGS TYPE E
- [T] ANCHOR ASSEMBLY, MGS TYPE T
- [B] ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

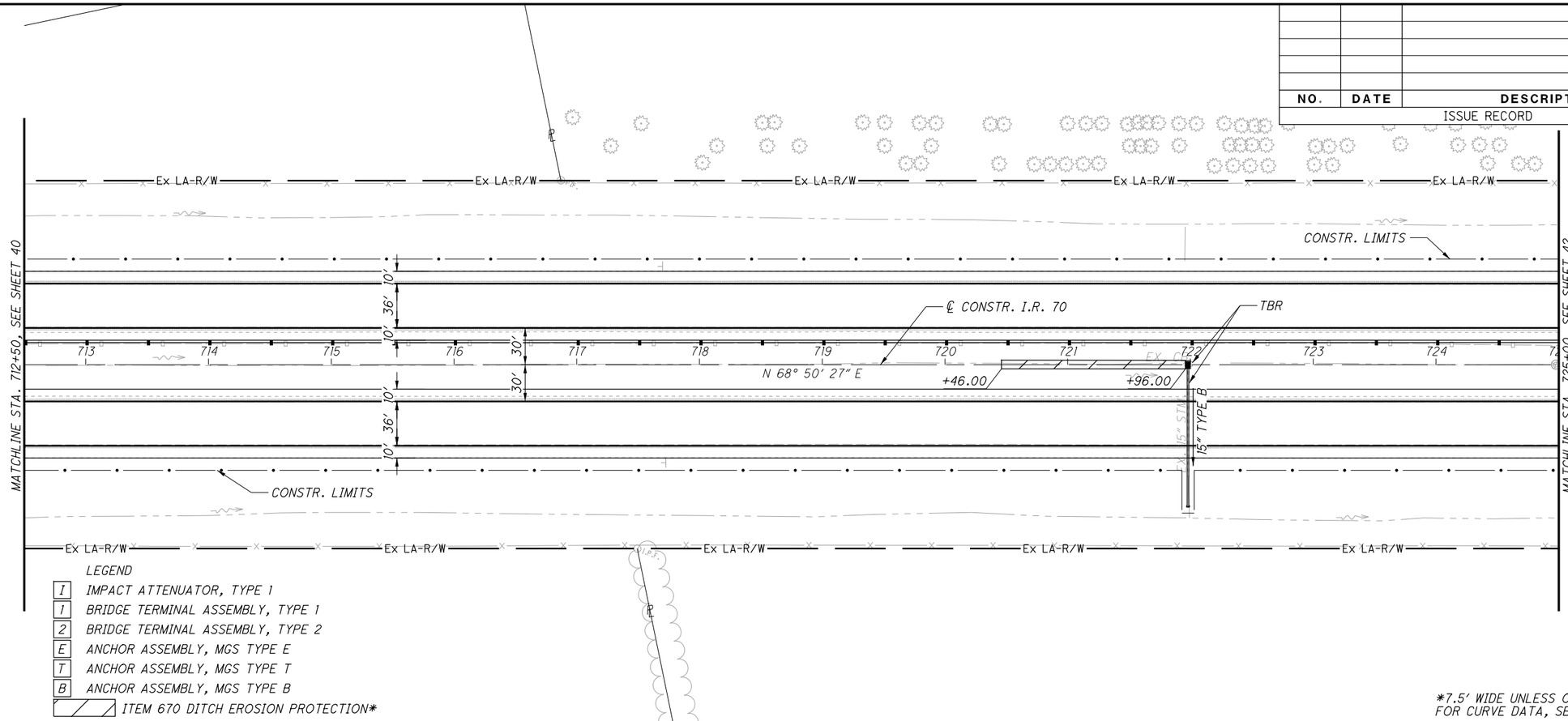
CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 700+00.00 TO STA. 712+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP020.dgn Sheet 3/20/2019 9:41:57 AM mcornett

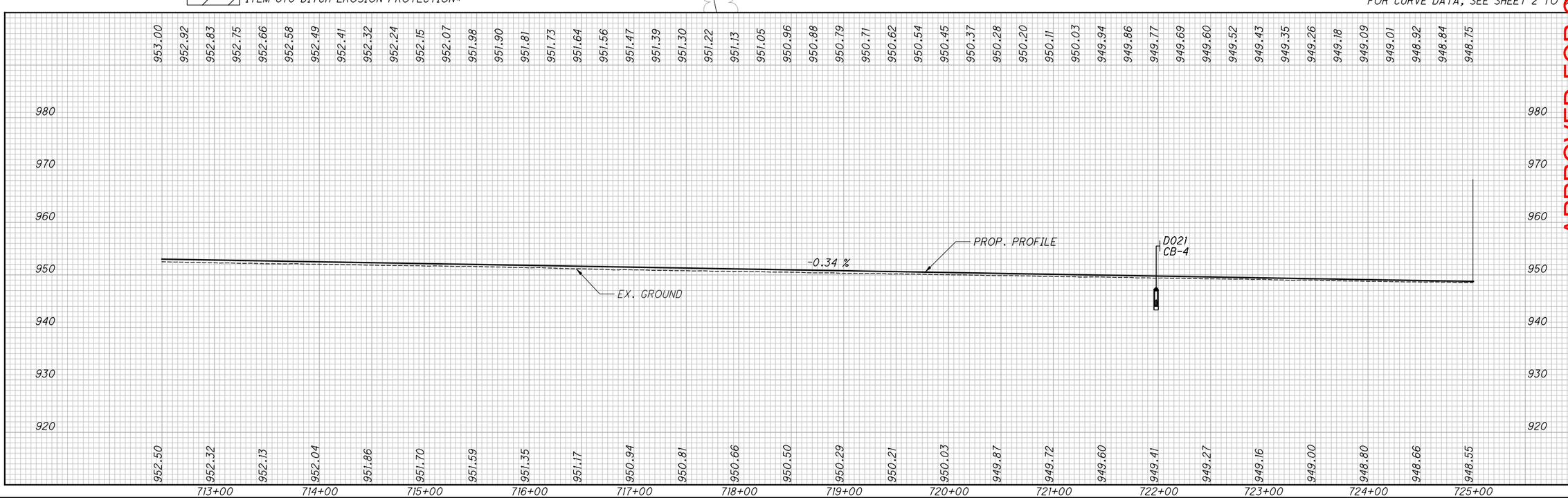
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

- [1] IMPACT ATTENUATOR, TYPE 1
- [1] BRIDGE TERMINAL ASSEMBLY, TYPE 1
- [2] BRIDGE TERMINAL ASSEMBLY, TYPE 2
- [E] ANCHOR ASSEMBLY, MGS TYPE E
- [T] ANCHOR ASSEMBLY, MGS TYPE T
- [B] ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

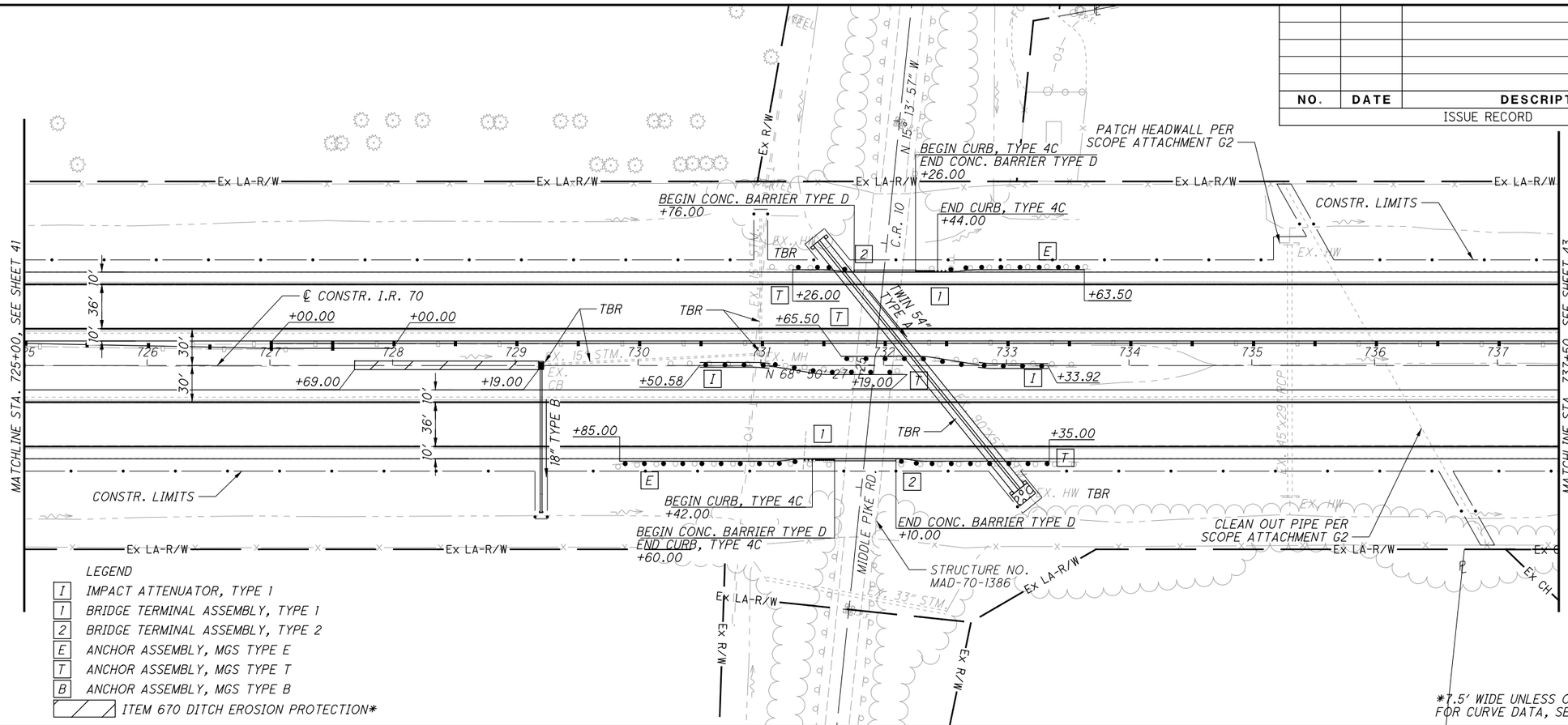
PLAN AND PROFILE
STA. 712+50.00 TO STA. 725+00.00

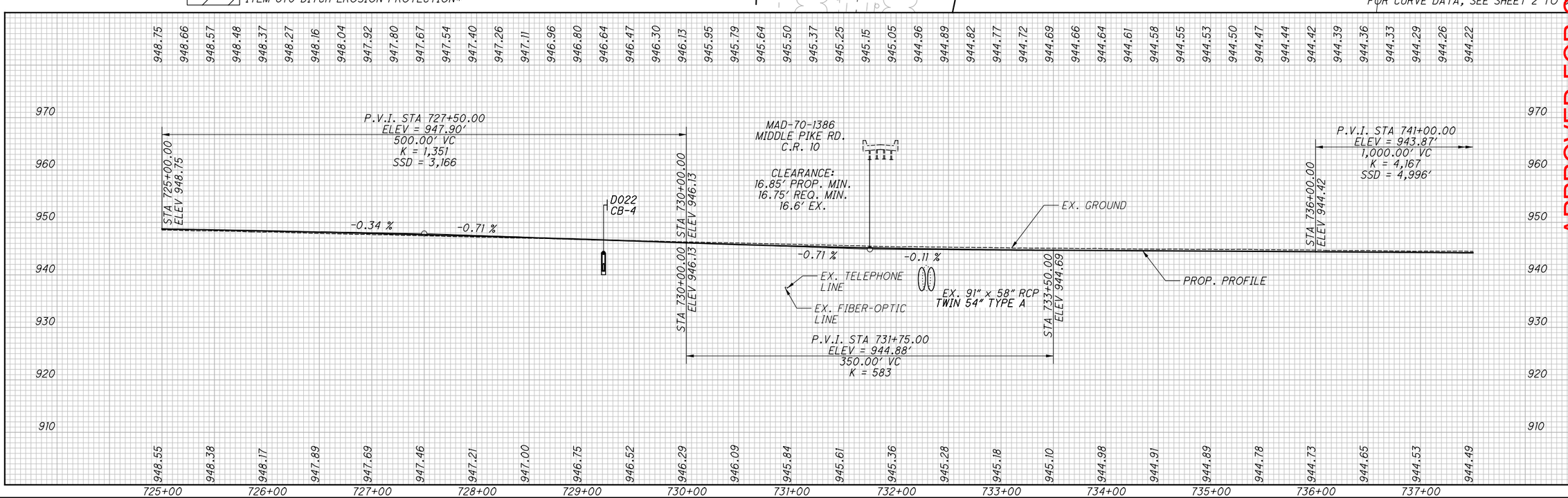
MAD-70-8.62

P:\07109_MAD-70-8.62DB\Design\Roadway\Sheets\07109_GP021.dgn Sheet 3/20/2019 9:41:58 AM mcornett

NO.	DATE	DESCRIPTION

ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

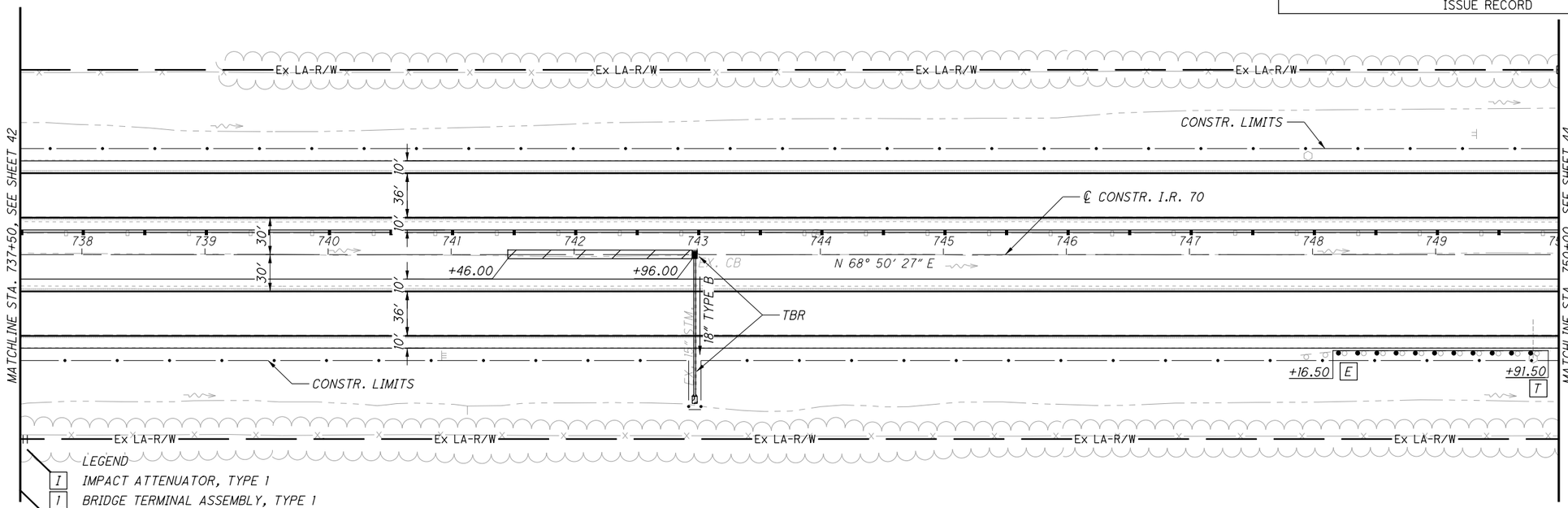
PLAN AND PROFILE
STA. 725+00.00 TO STA. 737+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP022.dgn Sheet 3/20/2019 10:17:10 AM mcornett

NO.	DATE	DESCRIPTION

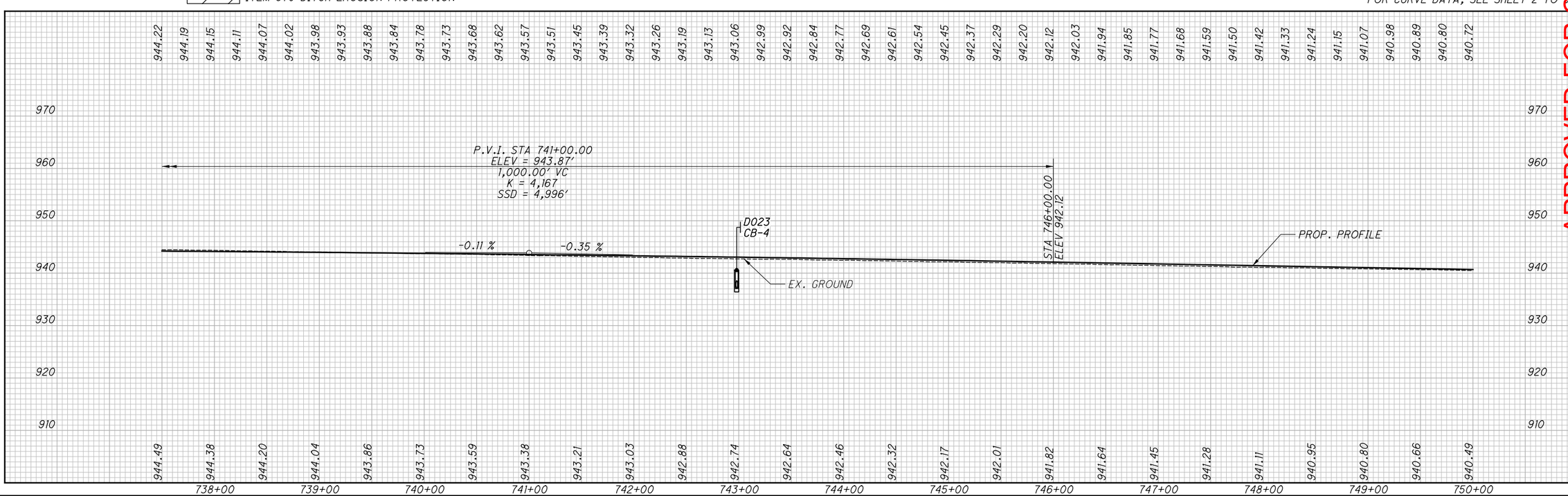
ISSUE RECORD



LEGEND

- 1 IMPACT ATTENUATOR, TYPE 1
- 1 BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E ANCHOR ASSEMBLY, MGS TYPE E
- T ANCHOR ASSEMBLY, MGS TYPE T
- B ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

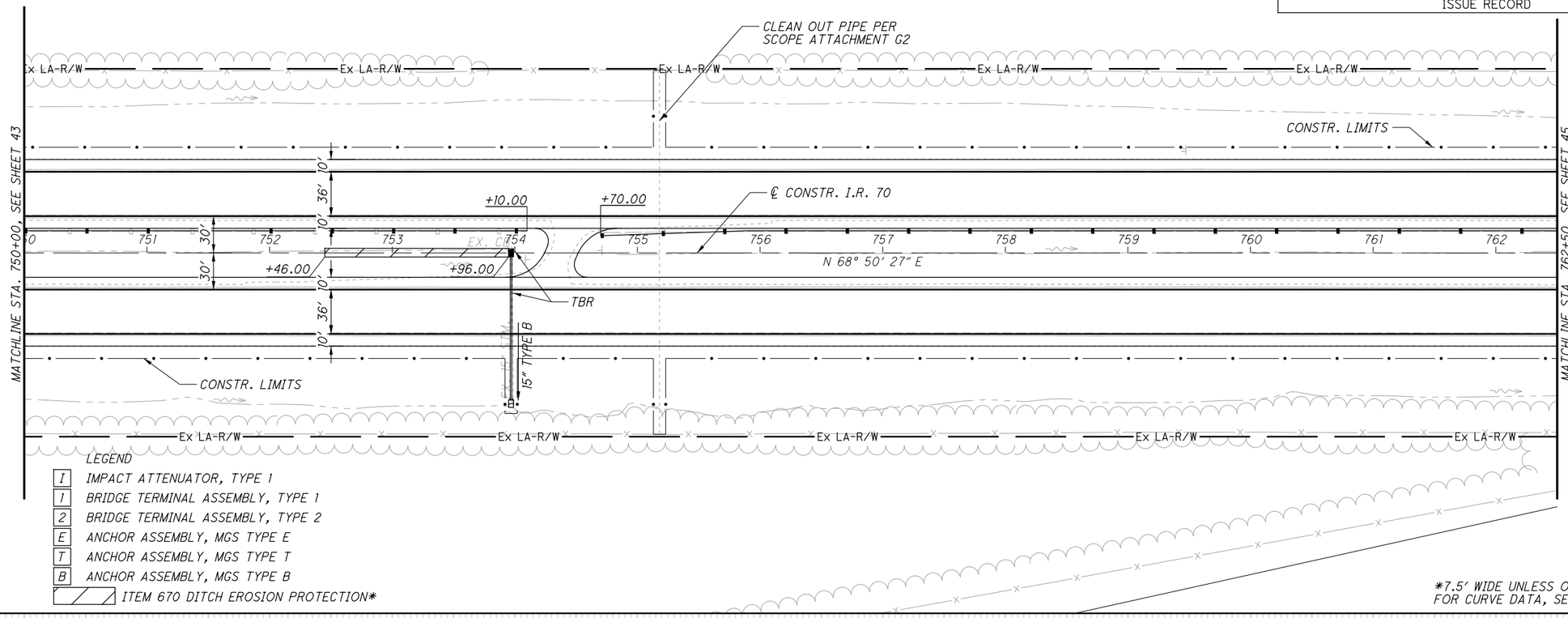
CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 737+50.00 TO STA. 750+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP023.dgn Sheet 3/20/2019 9:42:02 AM mcornett

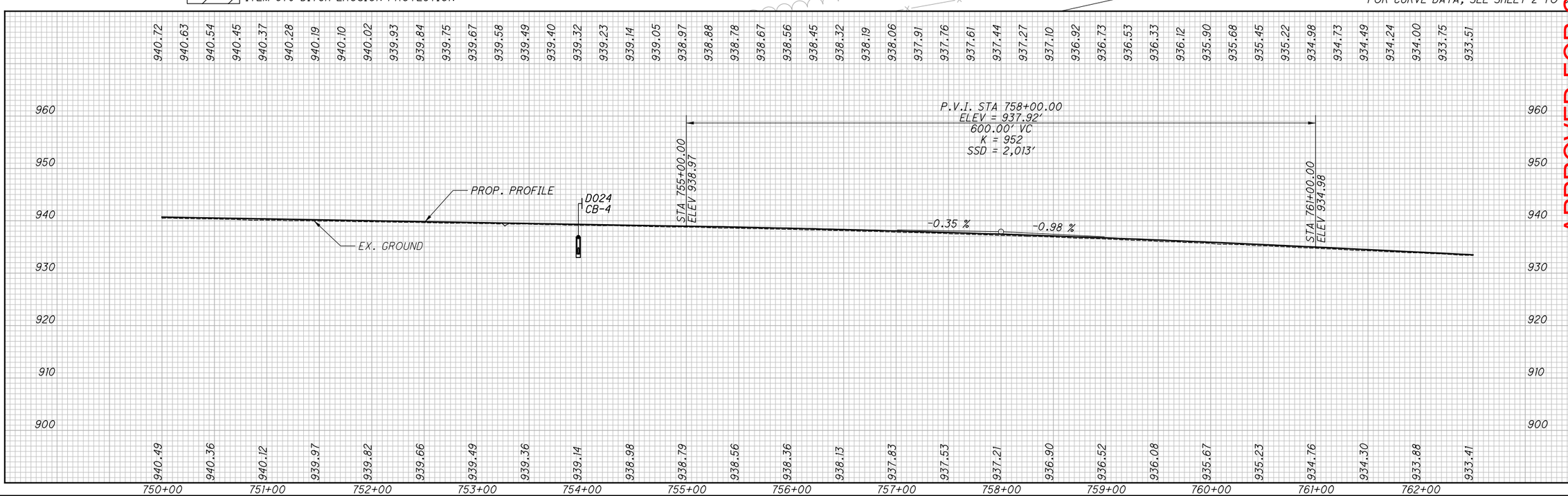
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 750+00.00 TO STA. 762+50.00

MAD-70-8.62

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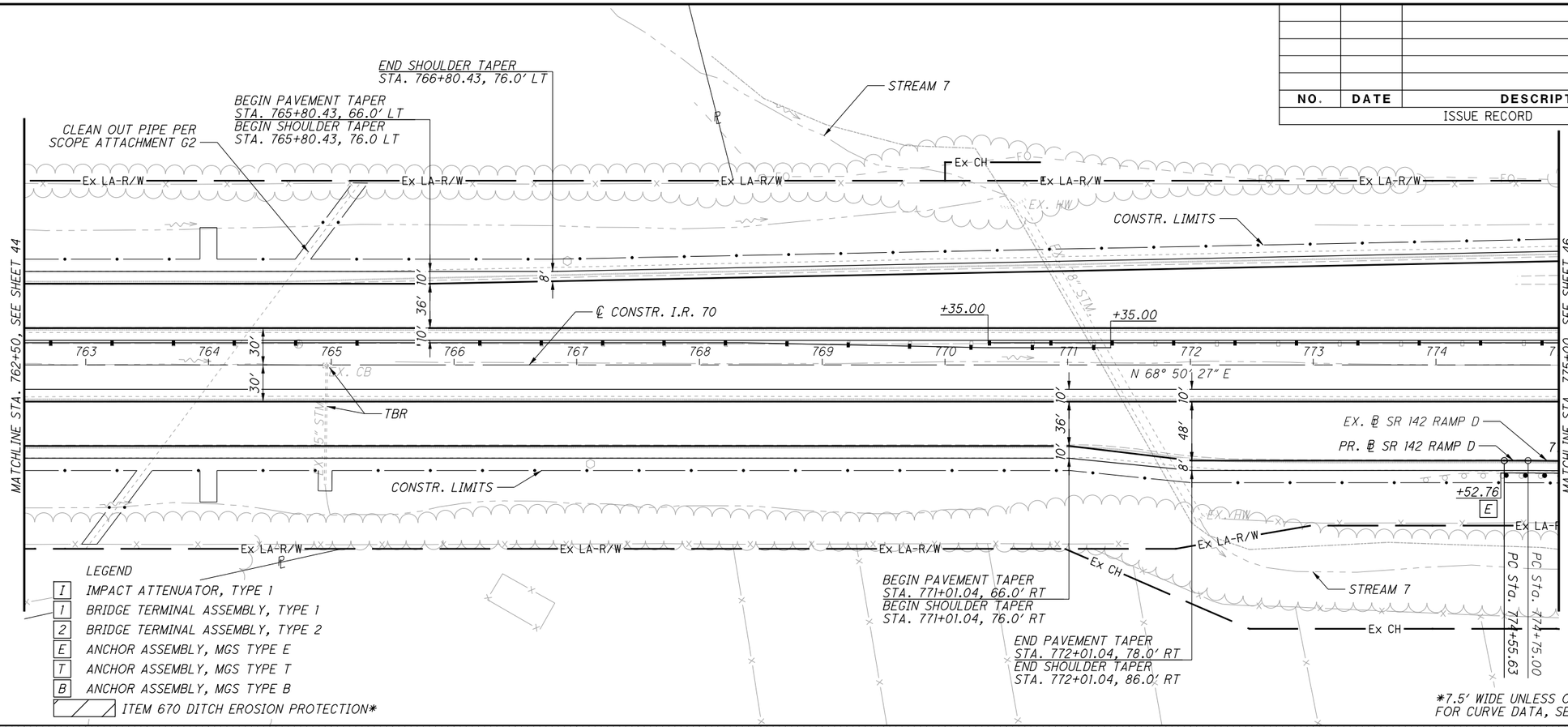
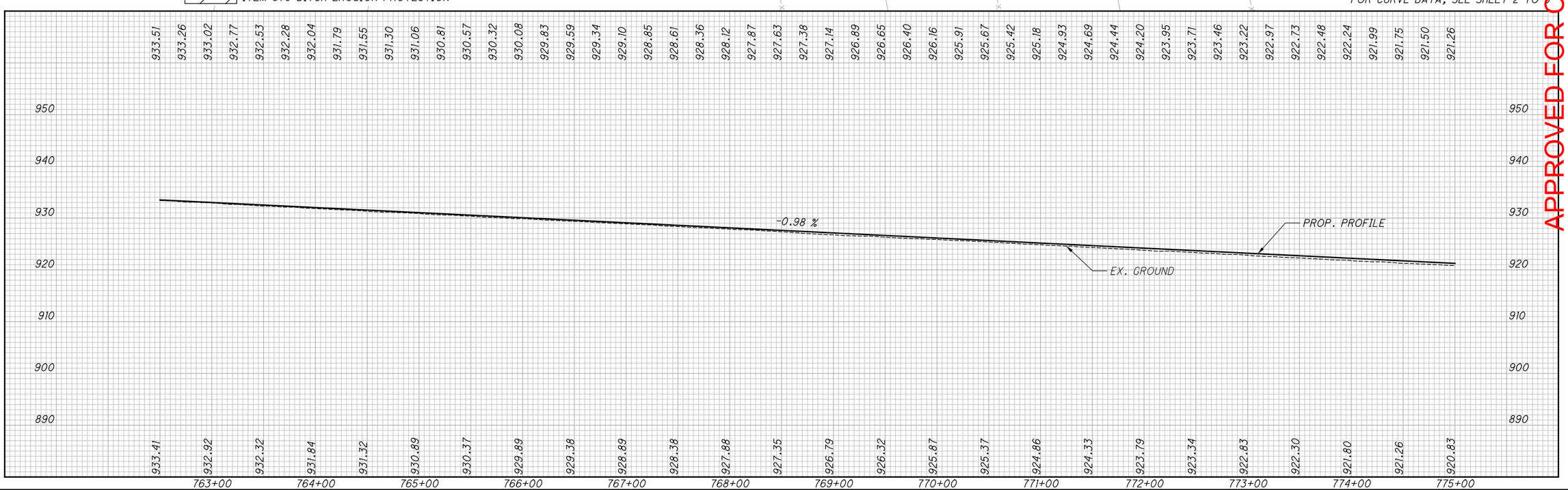
NO.	DATE	DESCRIPTION
		ISSUE RECORD



LEGEND

- 1 IMPACT ATTENUATOR, TYPE 1
- 1 BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E ANCHOR ASSEMBLY, MGS TYPE E
- T ANCHOR ASSEMBLY, MGS TYPE T
- B ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*



HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

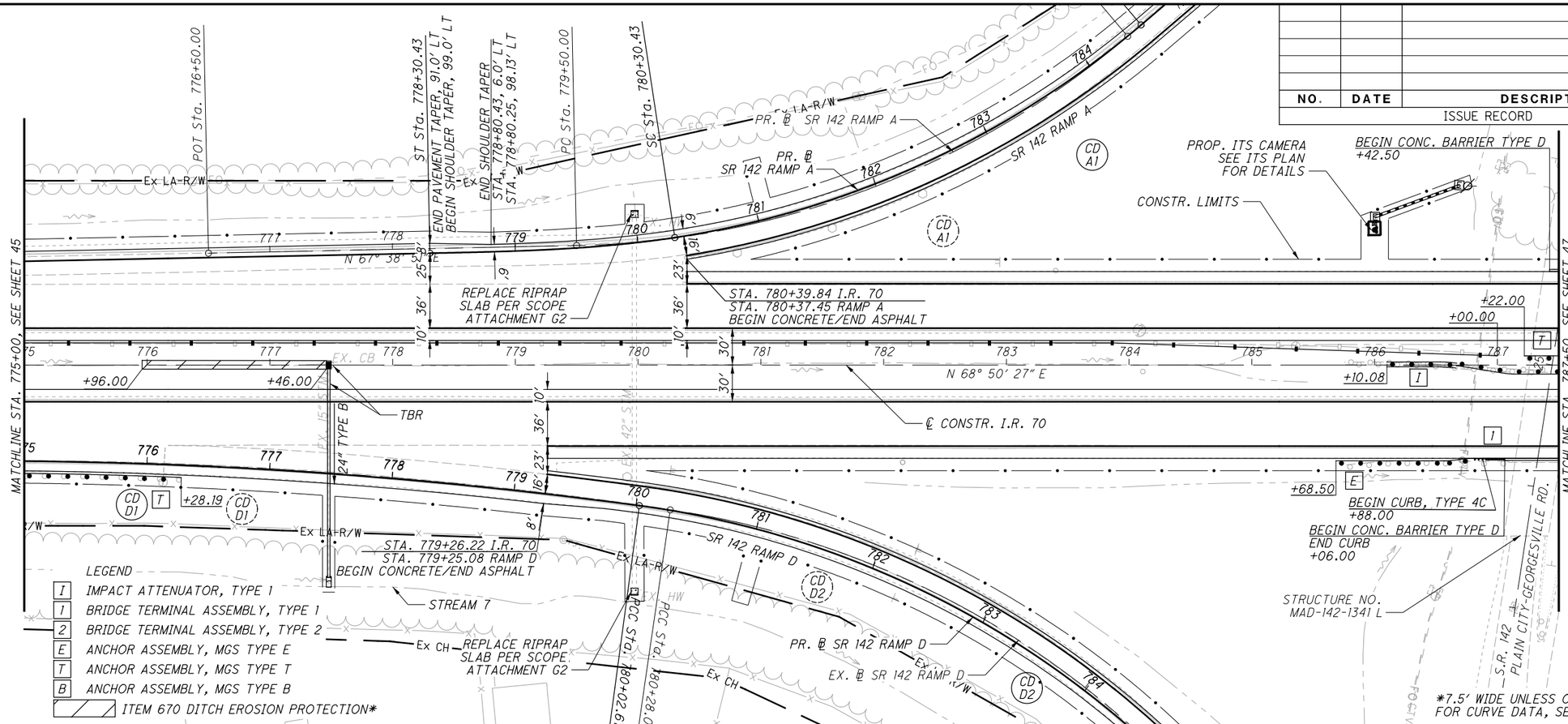
APPROVED FOR CONSTRUCTION - 3/20/2019

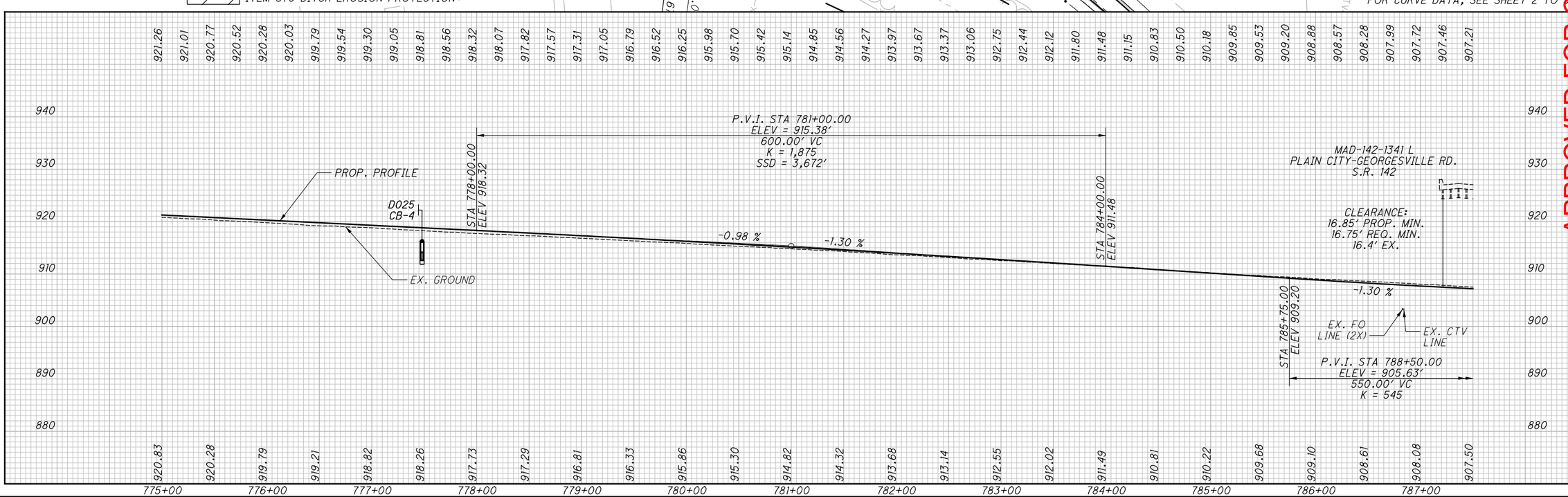
PLAN AND PROFILE
STA. 762+50.00 TO STA. 775+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP025.dgn Sheet 3/20/2019 9:42:05 AM mcornett

NO.	DATE	DESCRIPTION
		ISSUE RECORD





APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED TDP
CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

PLAN AND PROFILE
STA. 775+00.00 TO STA. 787+50.00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GP026.dgn Sheet 3/20/2019 9:42:06 AM mcornett

NO.	DATE	DESCRIPTION
		ISSUE RECORD

ITEM 670 DITCH EROSION PROTECTION*
*7.5' WIDE UNLESS OTHERWISE NOTED

PLAIN CITY-GEORGESVILLE RD.
N 12° 30' 00" W
STRUCTURE NO. MAD-142-1341 L
BEGIN CURB, TYPE 4C
END CONC. BARRIER TYPE D +31.50
END CURB, TYPE 4C +49.50
+69.00
+27.92
+38.00
+16.00
STRUCTURE NO. MAD-142-1341 R
END CONC. BARRIER TYPE D +95.00
S.R. 142
MATCHLINE STA. 787+50, SEE SHEET 46
MATCHLINE STA. 800+00, SEE SHEET 46
CD B2
CD B3
CD C2
CD C3
EX LA-R/W
PR. ℄ SR 142 RAMP B
EX. ℄ SR 142 RAMP B
SR 142 RAMP B
PCC Sta. 795+83.8
PCC Sta. 796+09.70
CONSTR. LIMITS
TBR
+49.50
STA. 796+85.63 I.R. 70
STA. 796+86.68 RAMP B
END CONCRETE/BEGIN ASPHALT
℄ CONSTR. I.R. 70
24" TYPE C
N 68° 50' 27" E
+21.00
+71.00
STA. 795+10.13 I.R. 70
STA. 795+12.52 RAMP C
END CONCRETE/BEGIN ASPHALT
30" TYPE A
12" TYPE B
36" TYPE A
EX. HW
EX. 33" STM.
EX. 18" STM.
EX. CB
EX. MH
EX. 15" STM.
EX. CB - TBR
N 67° 38' 44" E
EX. ℄ SR 142 RAMP C
SR 142 RAMP C
PR. ℄ SR 142 RAMP C
EX CH
STREAM 7
CS Sta. 796+19.55
PT Sta. 796+00.00
BEGIN SHOULDER TAPER
STA. 796+69.55, 6.0' RT
STA. 796+69.73, 98.13' RT
ST Sta. 797+19.55
BEGIN PAVEMENT TAPER, 91.0' RT
END SHOULDER TAPER, 99.0' RT
POT Sta. 799+00.00
FOR CURVE DATA, SEE SHEET 2 TO 3

LEGEND

1	IMPACT ATTENUATOR, TYPE 1
1	BRIDGE TERMINAL ASSEMBLY, TYPE 1
2	BRIDGE TERMINAL ASSEMBLY, TYPE 2
E	ANCHOR ASSEMBLY, MGS TYPE E
T	ANCHOR ASSEMBLY, MGS TYPE T
B	ANCHOR ASSEMBLY, MGS TYPE B

MAD-142-1341 R
PLAIN CITY-GEORGESVILLE RD.
S.R. 142
CLEARANCE:
17.1' PROP. MIN.
16.75' REQ. MIN.
16.7' EX.
-1.30 %
-0.29 %
PROP. PROFILE
EX. GROUND
STA 791+25.00
ELEV 904.83
EX. 33" RCP
30" TYPE A
P.V.I. STA 788+50.00
ELEV = 905.63'
550.00' VC
K = 545
D026
CB-4
300'-24" TYPE C @ 1.00%
788+00 789+00 790+00 791+00 792+00 793+00 794+00 795+00 796+00 797+00 798+00 799+00 800+00

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

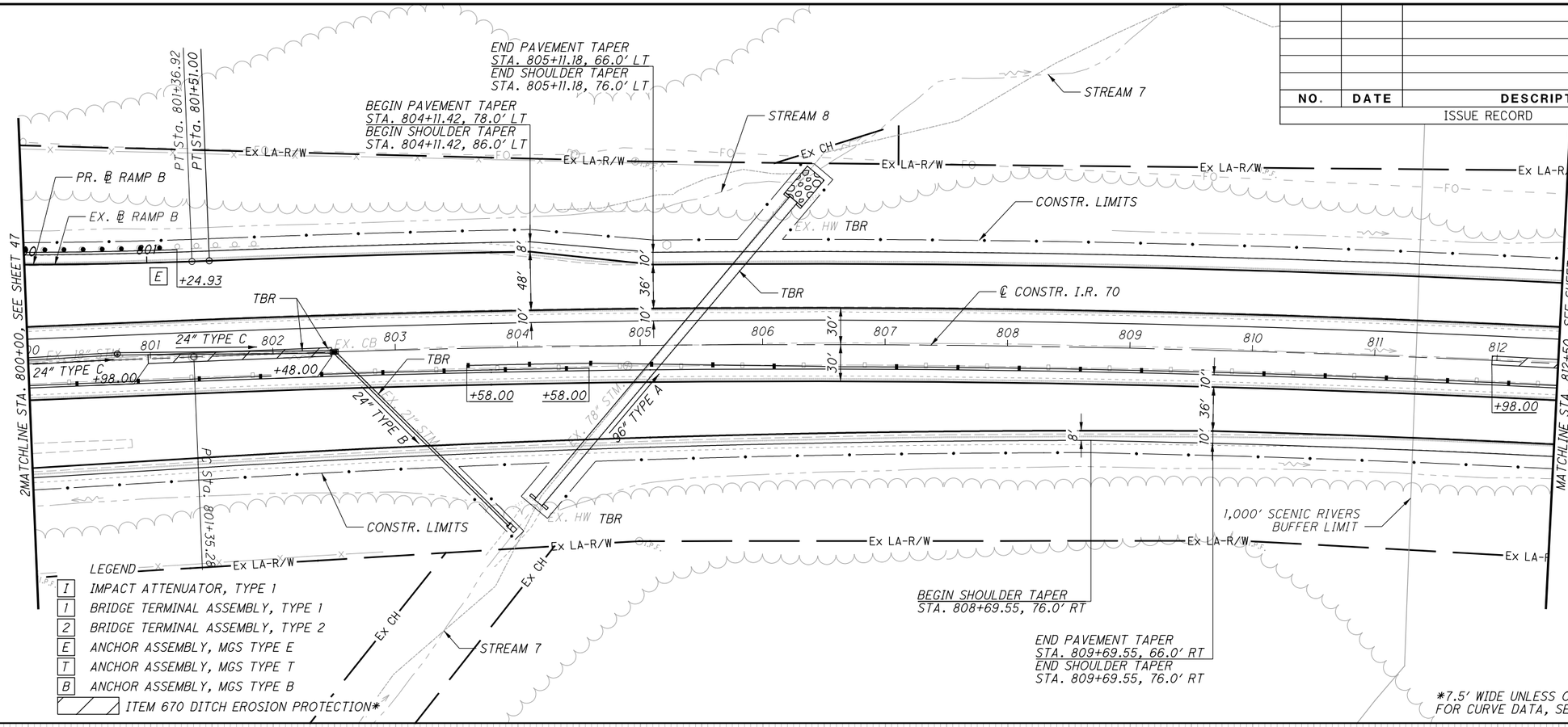
PLAN AND PROFILE
STA. 787+50.00 TO STA. 800+00.00

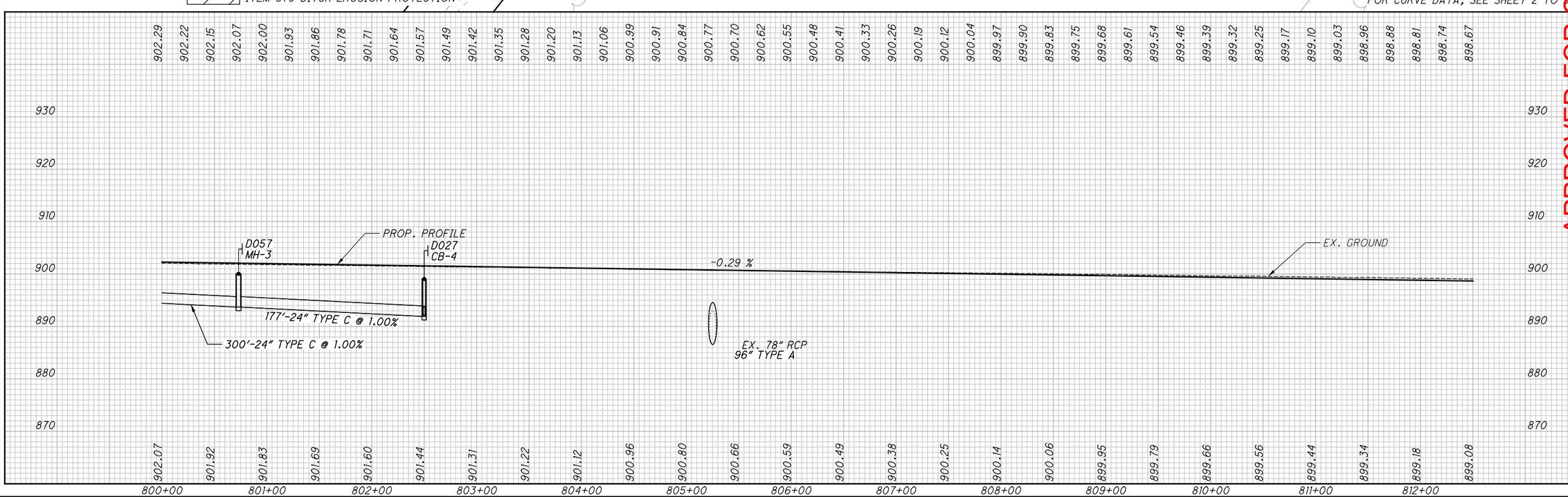
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP027.dgn Sheet 3/20/2019 9:42:08 AM mcornett

NO.	DATE	DESCRIPTION

ISSUE RECORD





APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

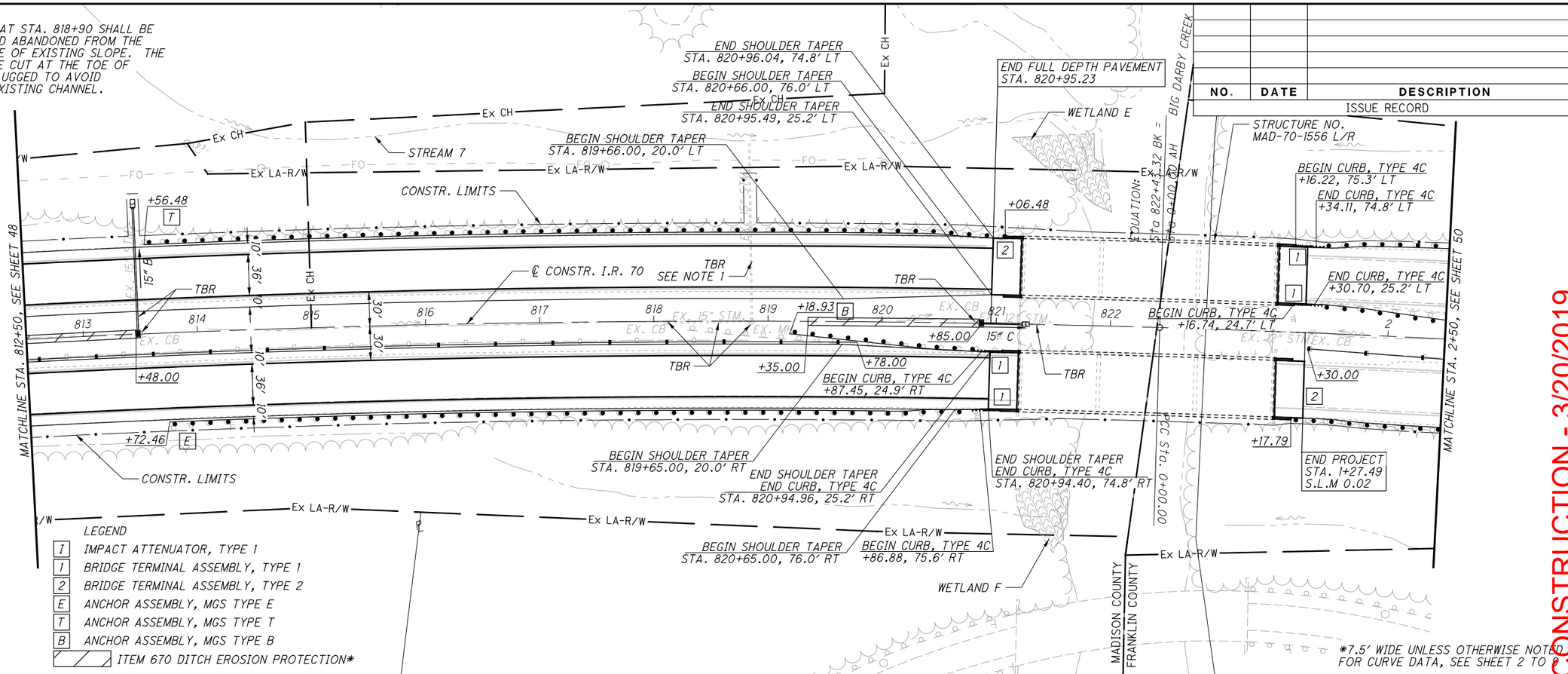
CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 800+00.00 TO STA. 812+50.00

MAD-70-8.62

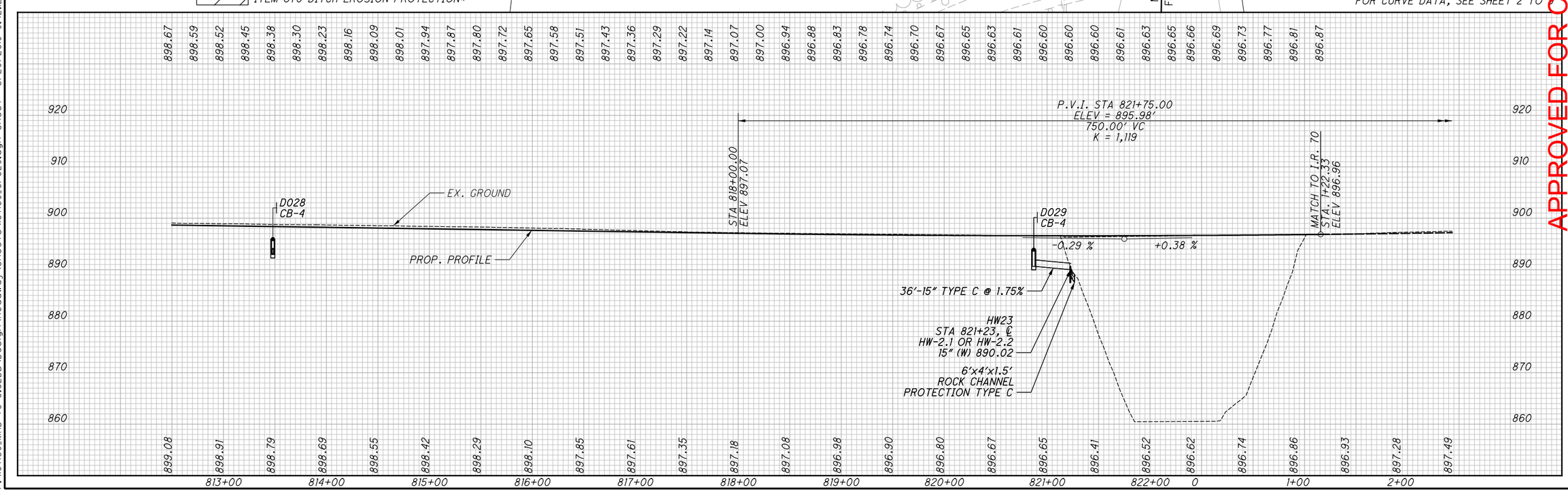
P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP028.dgn Sheet 3/20/2019 9:42:10 AM mcornett

NOTE 1:
THE EXISTING CONDUIT AT STA. 818+90 SHALL BE REMOVED OR FILLED AND ABANDONED FROM THE CENTERLINE TO THE TOE OF EXISTING SLOPE. THE EXISTING PIPE SHALL BE CUT AT THE TOE OF EXISTING SLOPE AND PLUGGED TO AVOID DISTURBANCE TO THE EXISTING CHANNEL.



LEGEND

1	IMPACT ATTENUATOR, TYPE 1
1	BRIDGE TERMINAL ASSEMBLY, TYPE 1
2	BRIDGE TERMINAL ASSEMBLY, TYPE 2
E	ANCHOR ASSEMBLY, MGS TYPE E
T	ANCHOR ASSEMBLY, MGS TYPE T
B	ANCHOR ASSEMBLY, MGS TYPE B
	ITEM 670 DITCH EROSION PROTECTION*



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE
STA. 812+50.00 TO STA. 2+50.00

MAD-70-8.62

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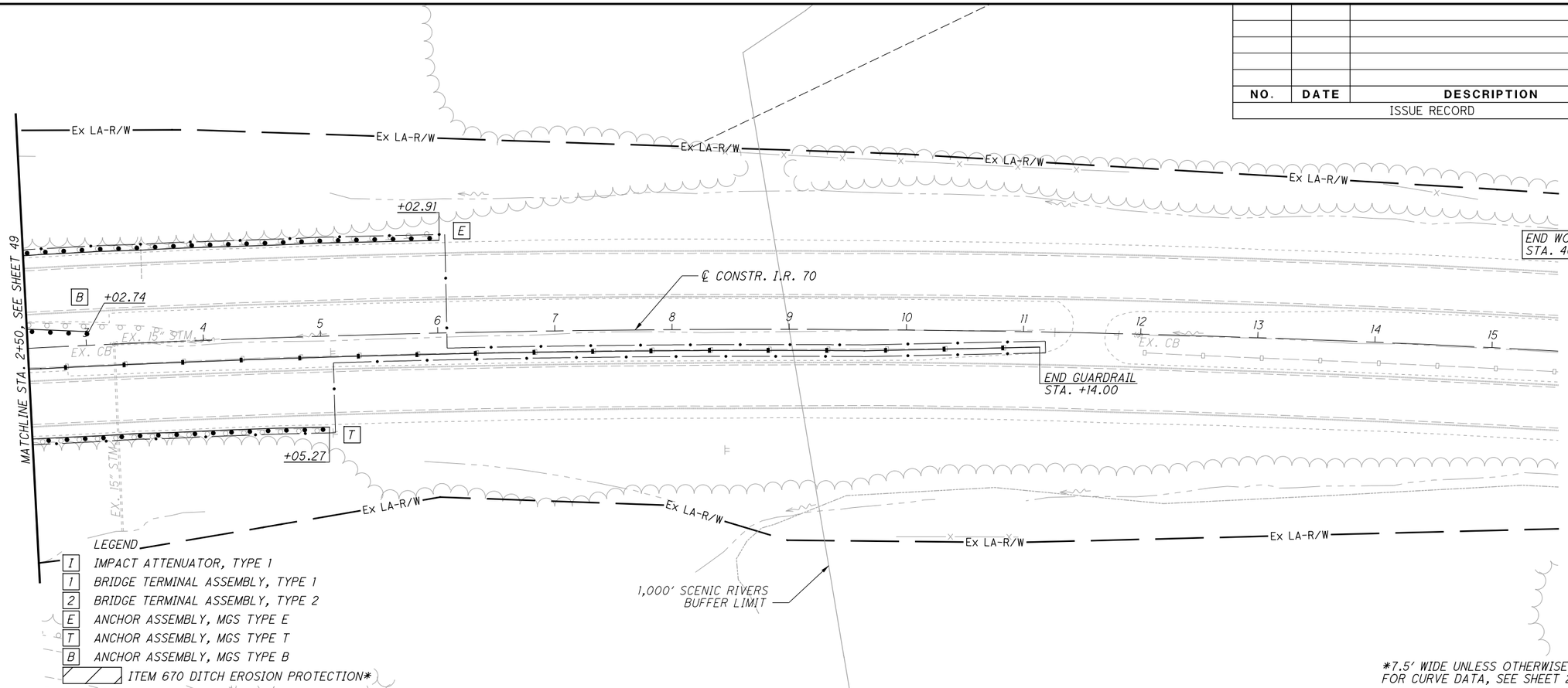
NO.	DATE	DESCRIPTION
		ISSUE RECORD



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE
STA. 2+50.00 TO END PROJECT

MAD-70-8.62

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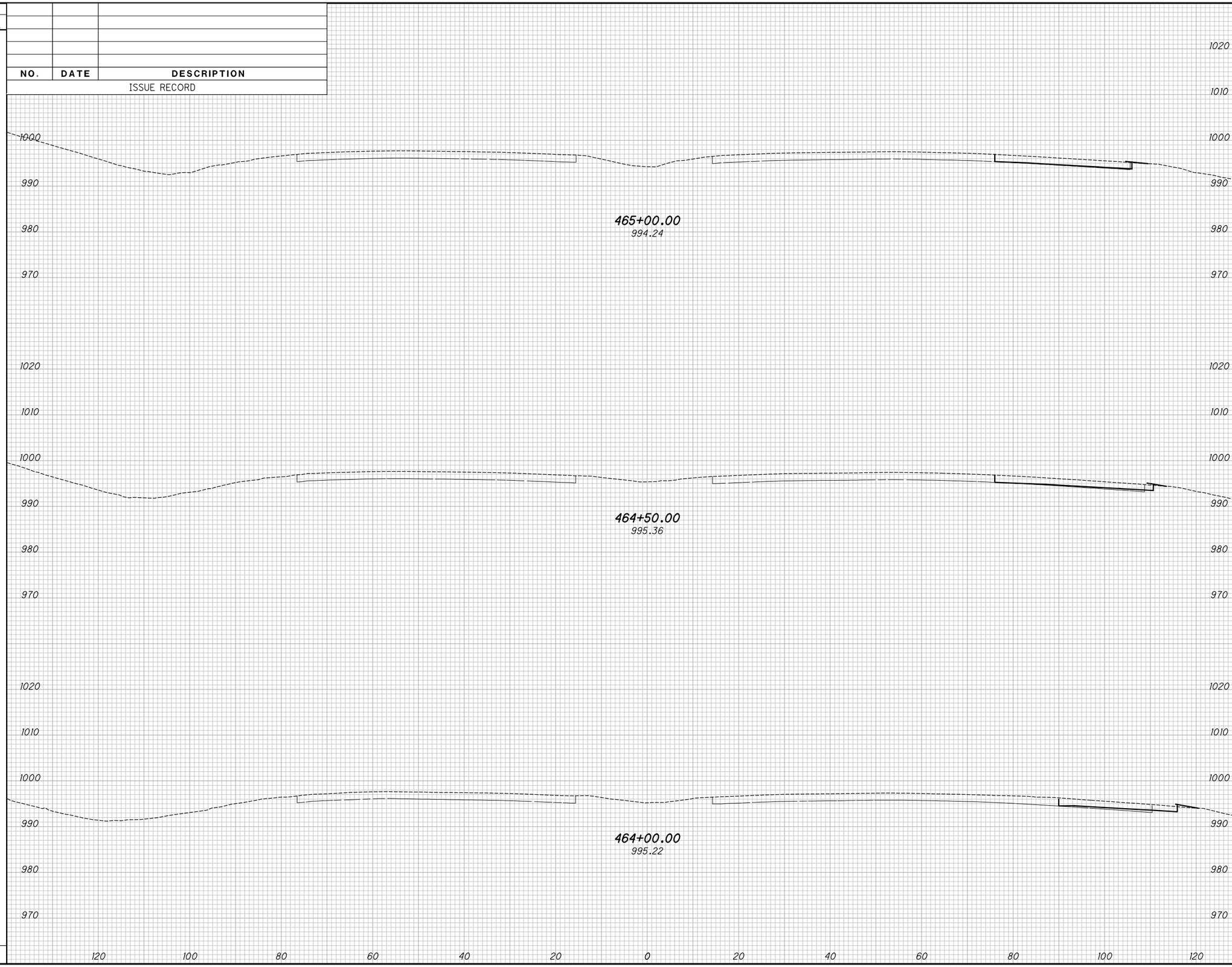
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
BEGIN WORK TO STA. 465+00.00

MAD-70-8.62

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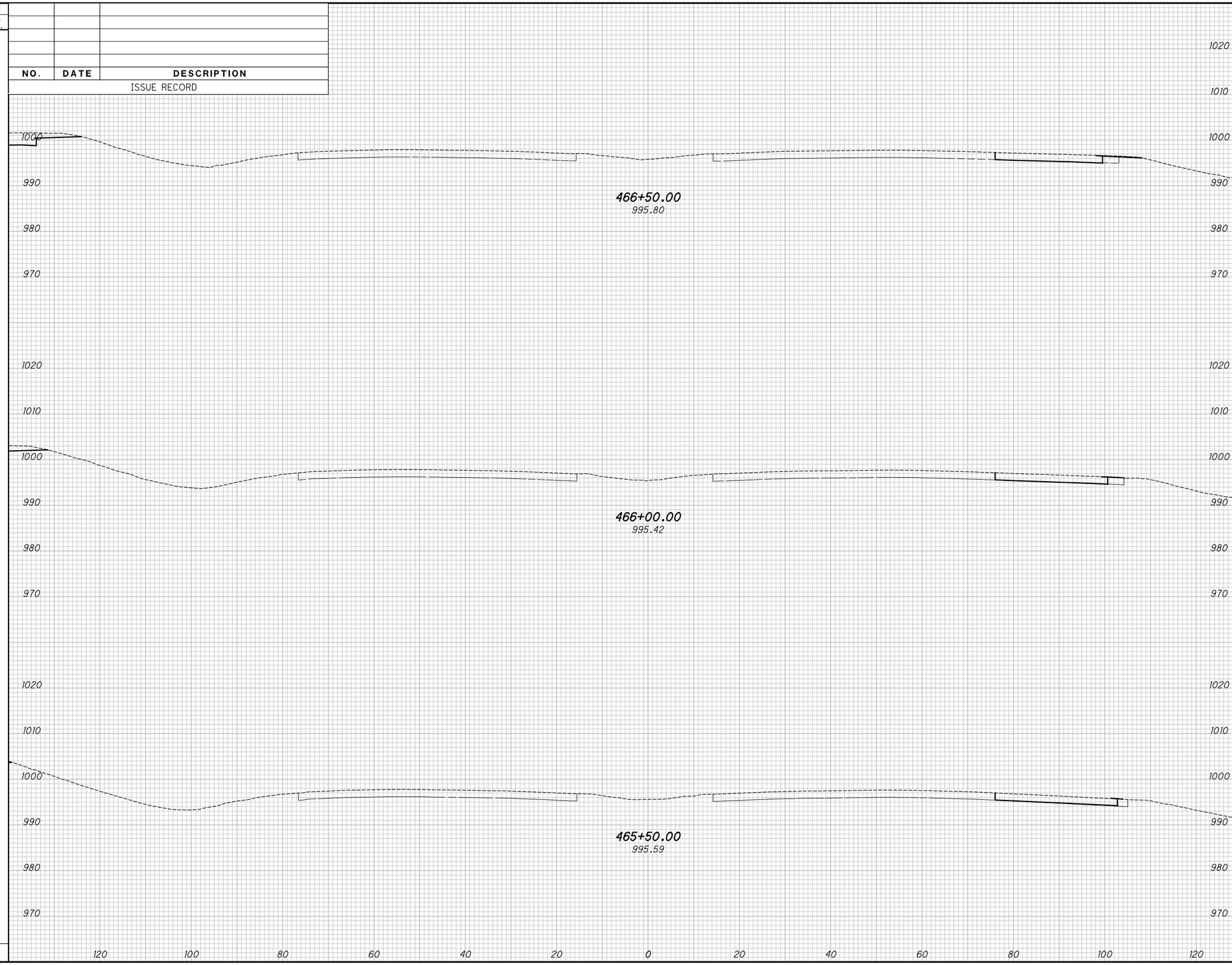
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 465+50.00 TO STA. 466+50.00

MAD-70-8.62

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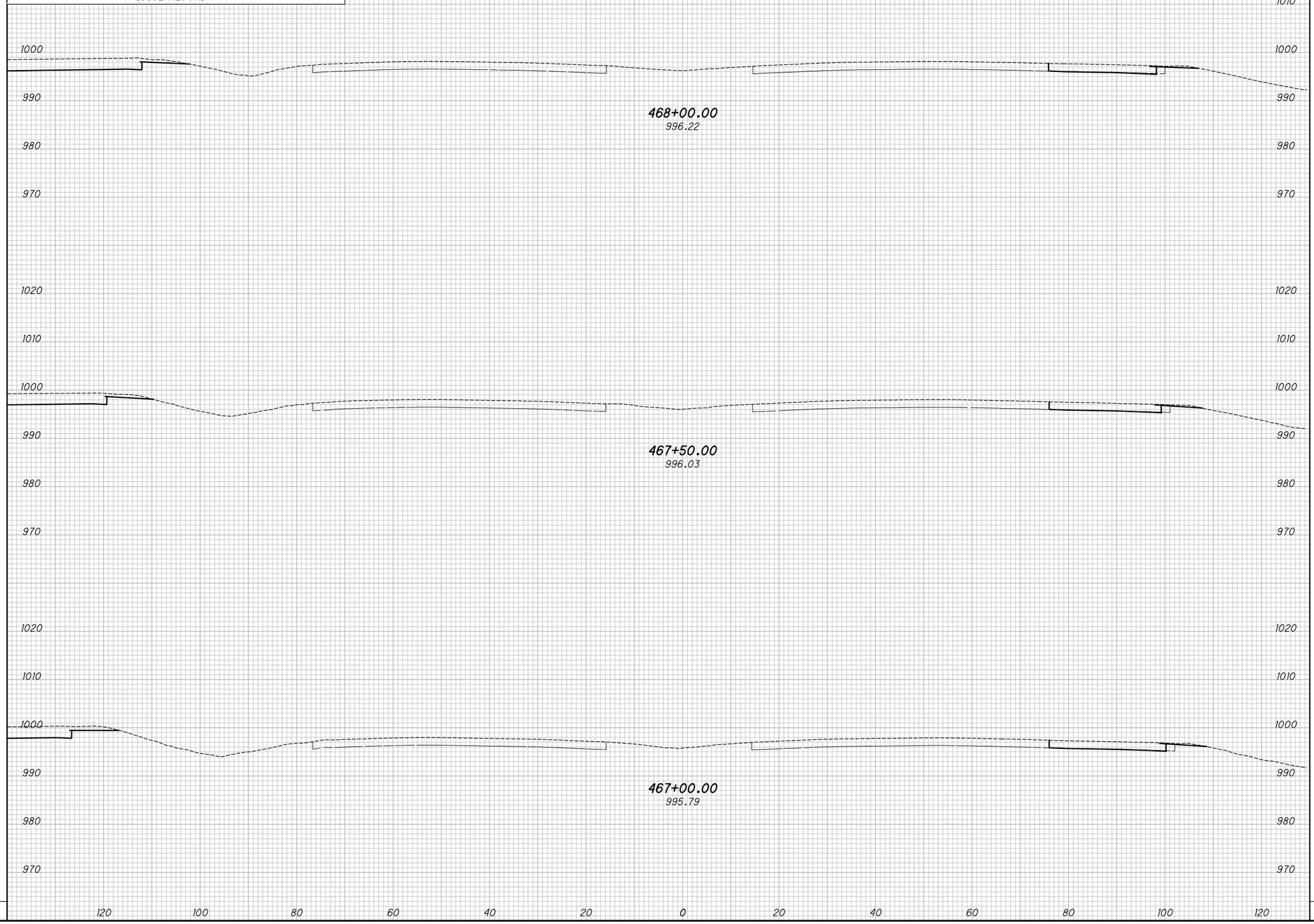
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 467+00.00 TO STA. 468+00.00

MAD-70-8.62

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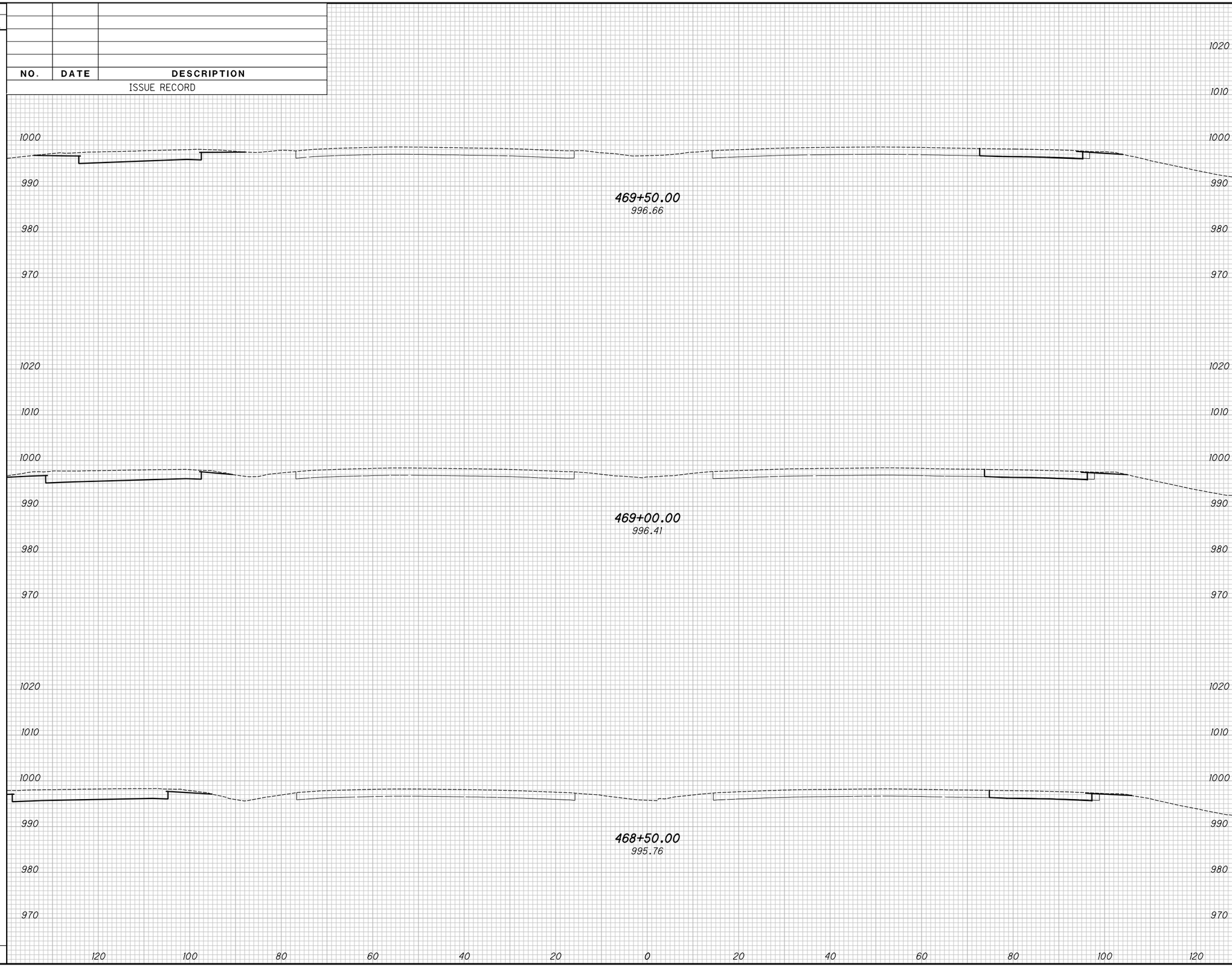
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 468+50.00 TO STA. 469+50.00

MAD-70-8.62

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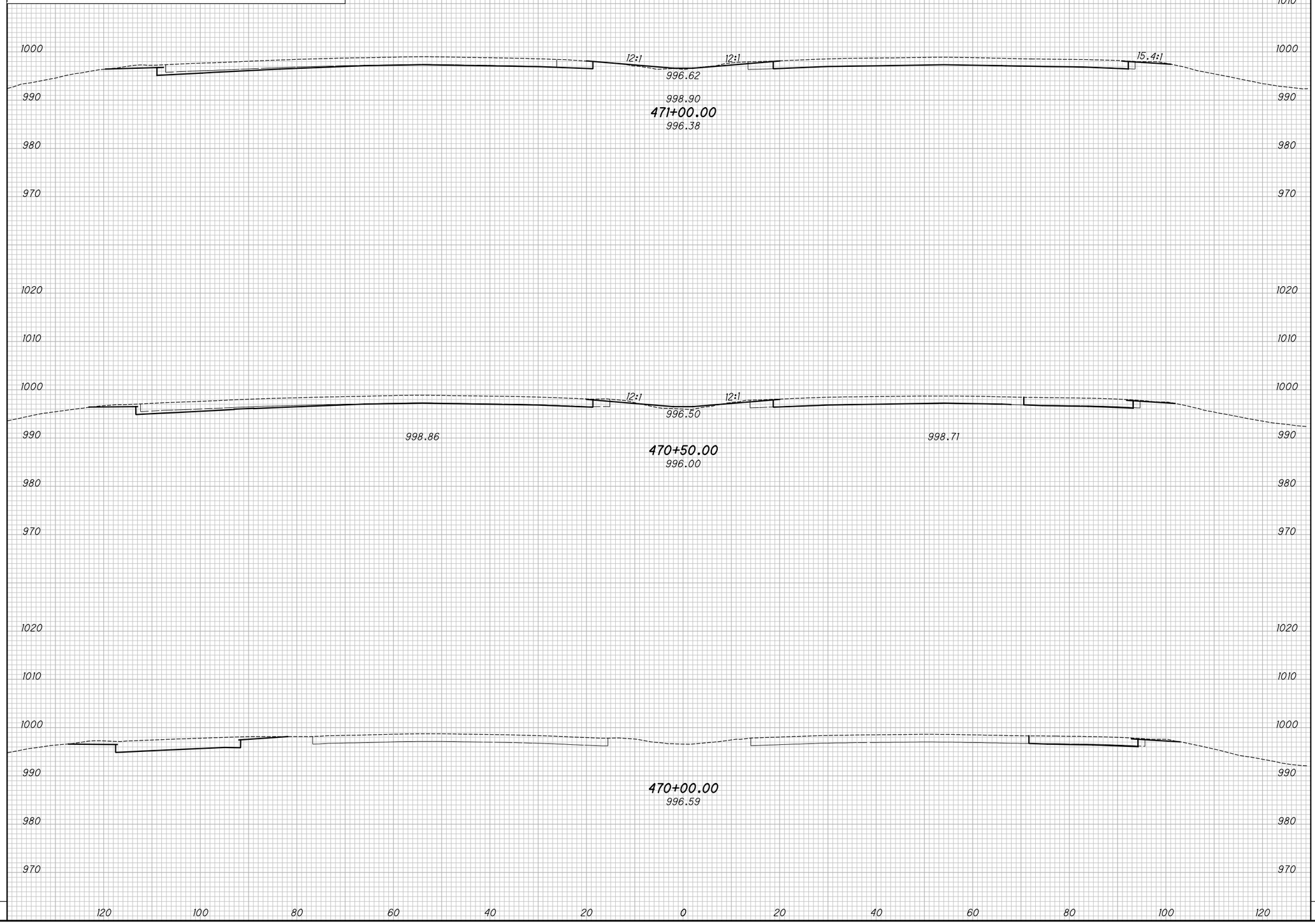
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 470+00.00 TO STA. 471+00.00

MAD-70-8.62

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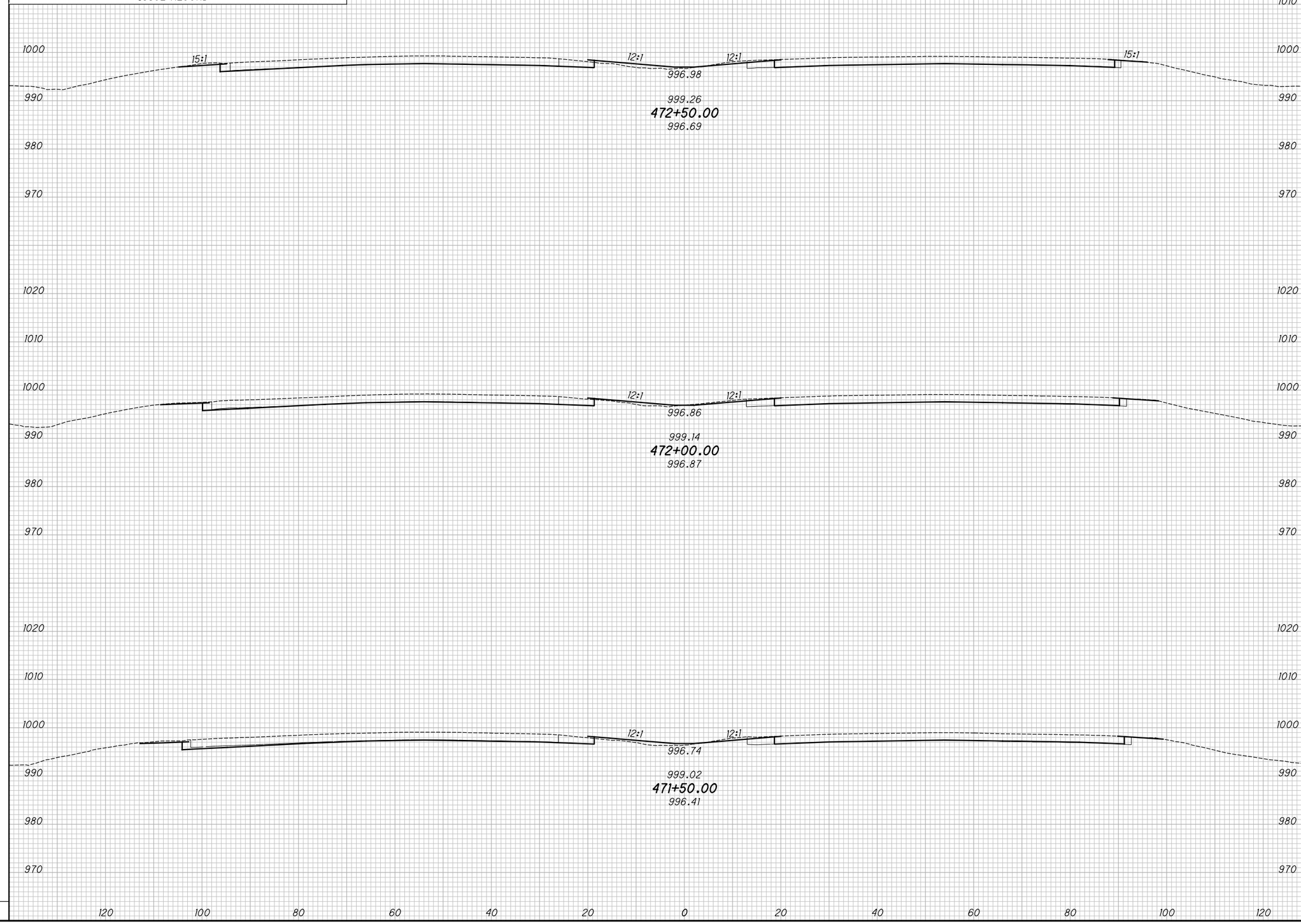
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 471+50.00 TO STA. 472+50.00

MAD-70-8.62

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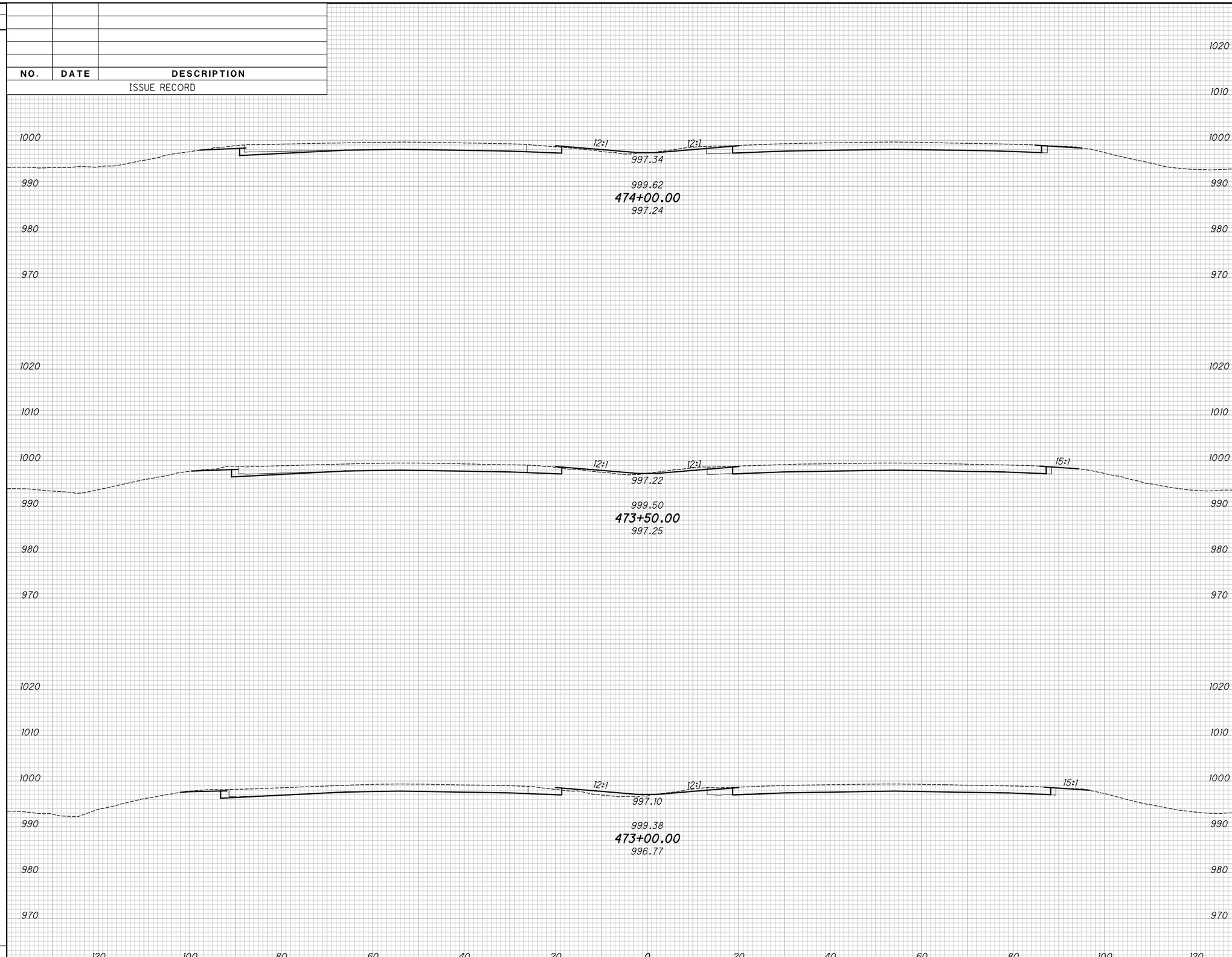
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 473+00.00 TO STA. 474+00.00

MAD-70-8.62

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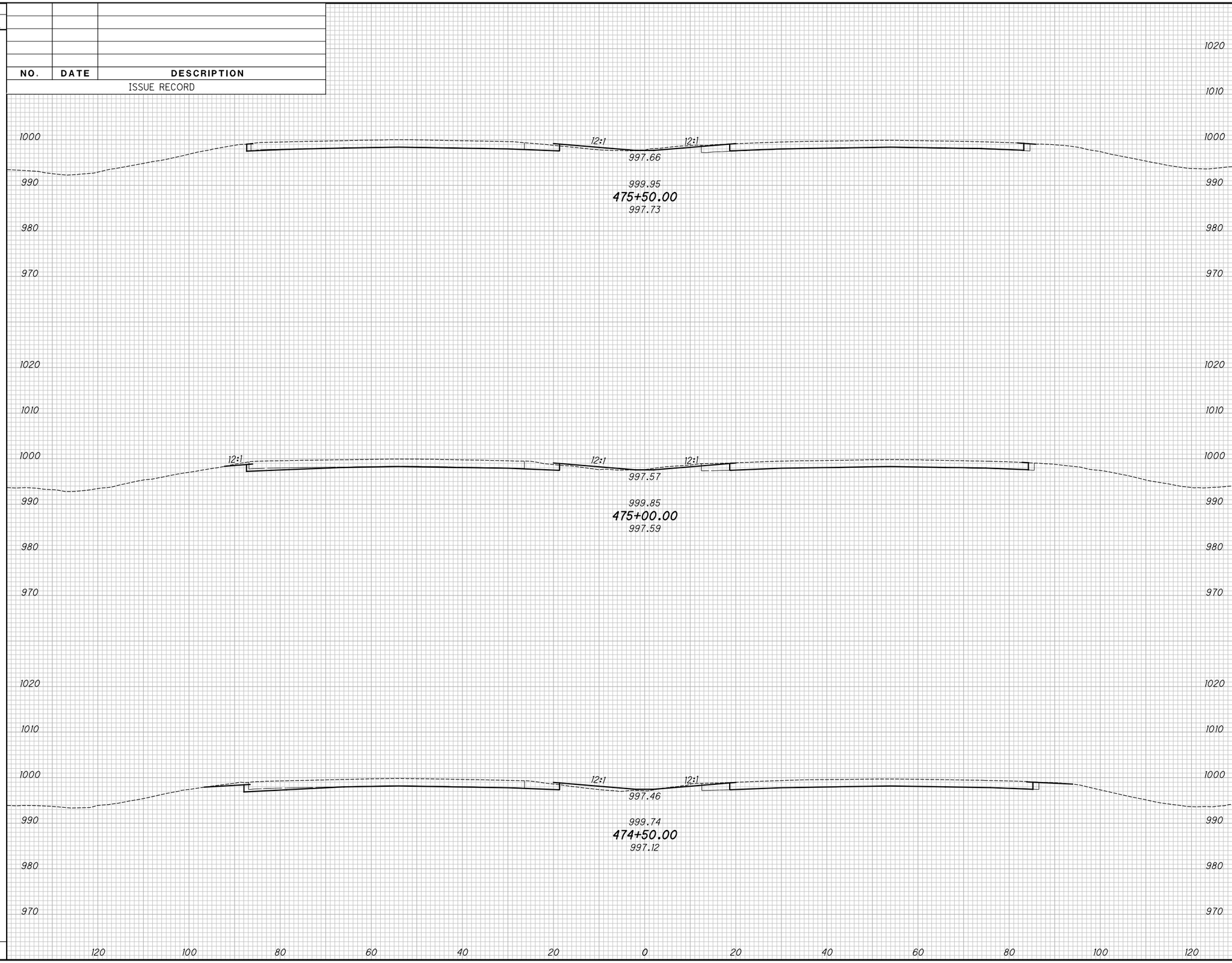
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 474+50.00 TO STA. 475+50.00

MAD-70-8.62

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SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 476+00.00 TO STA. 477+00.00

MAD-70-8.62

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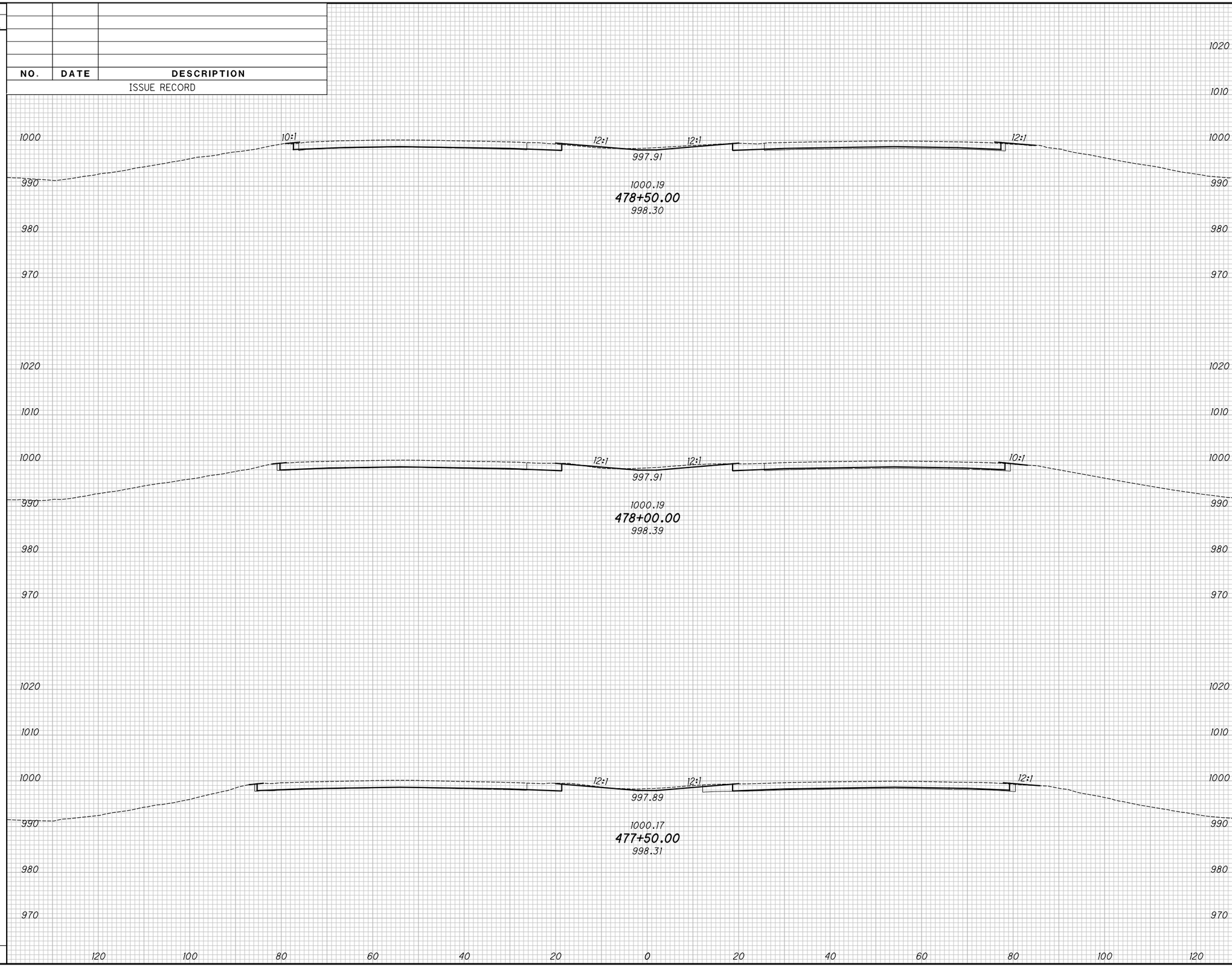
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 477+50.00 TO STA. 478+50.00

MAD-70-8.62

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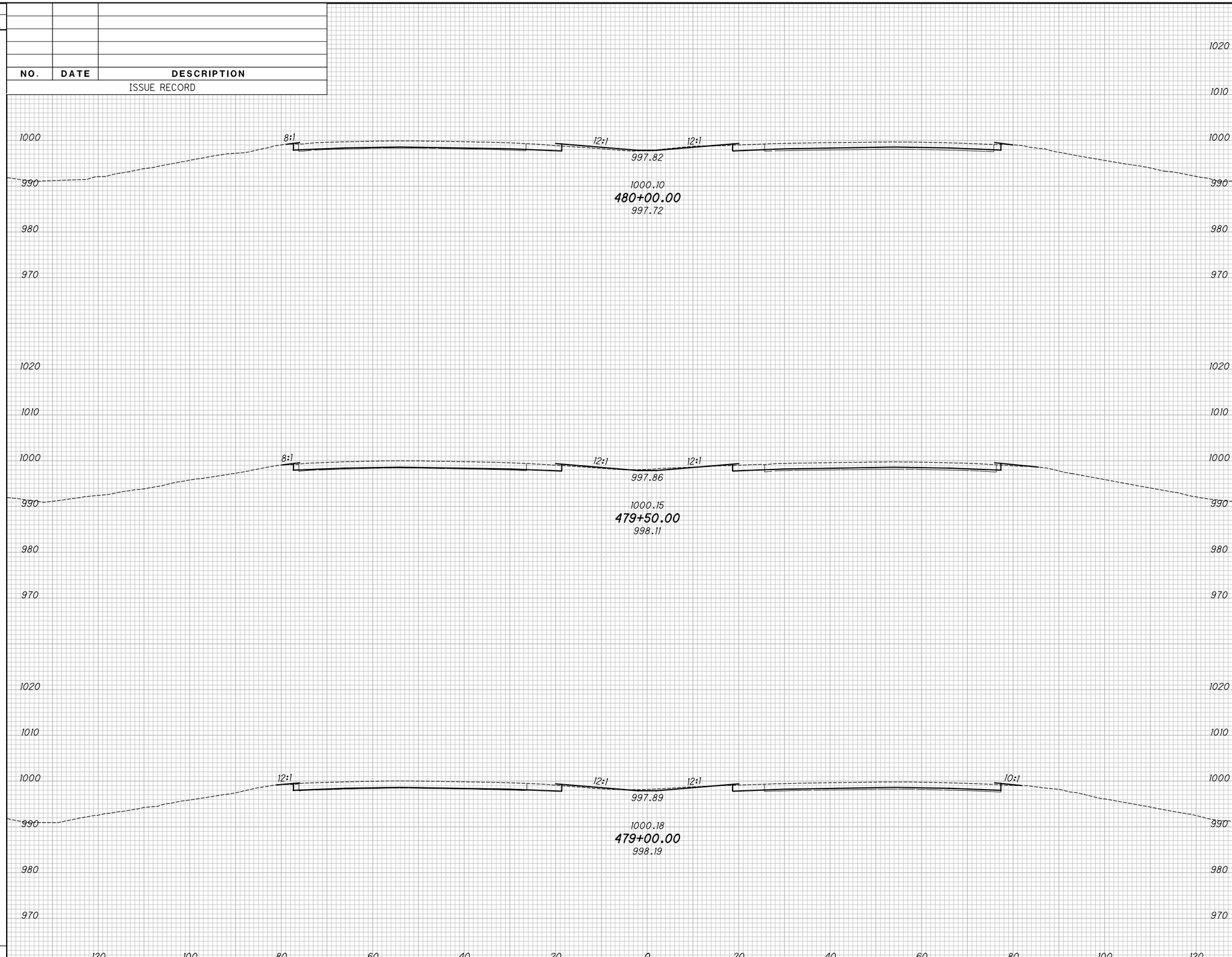
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 479+00.00 TO STA. 480+00.00

MAD-70-8.62

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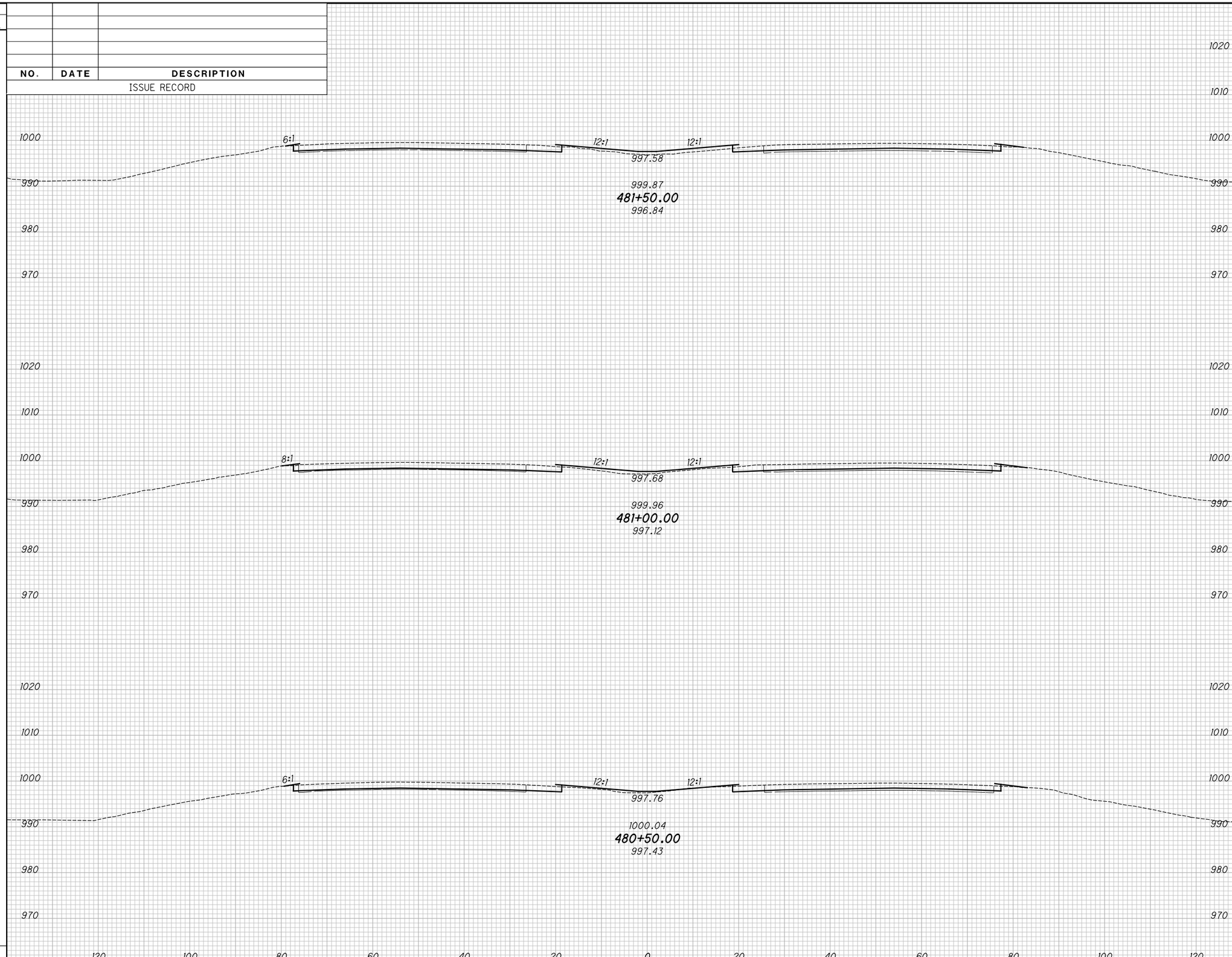
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 480+50.00 TO STA. 481+50.00

MAD-70-8.62

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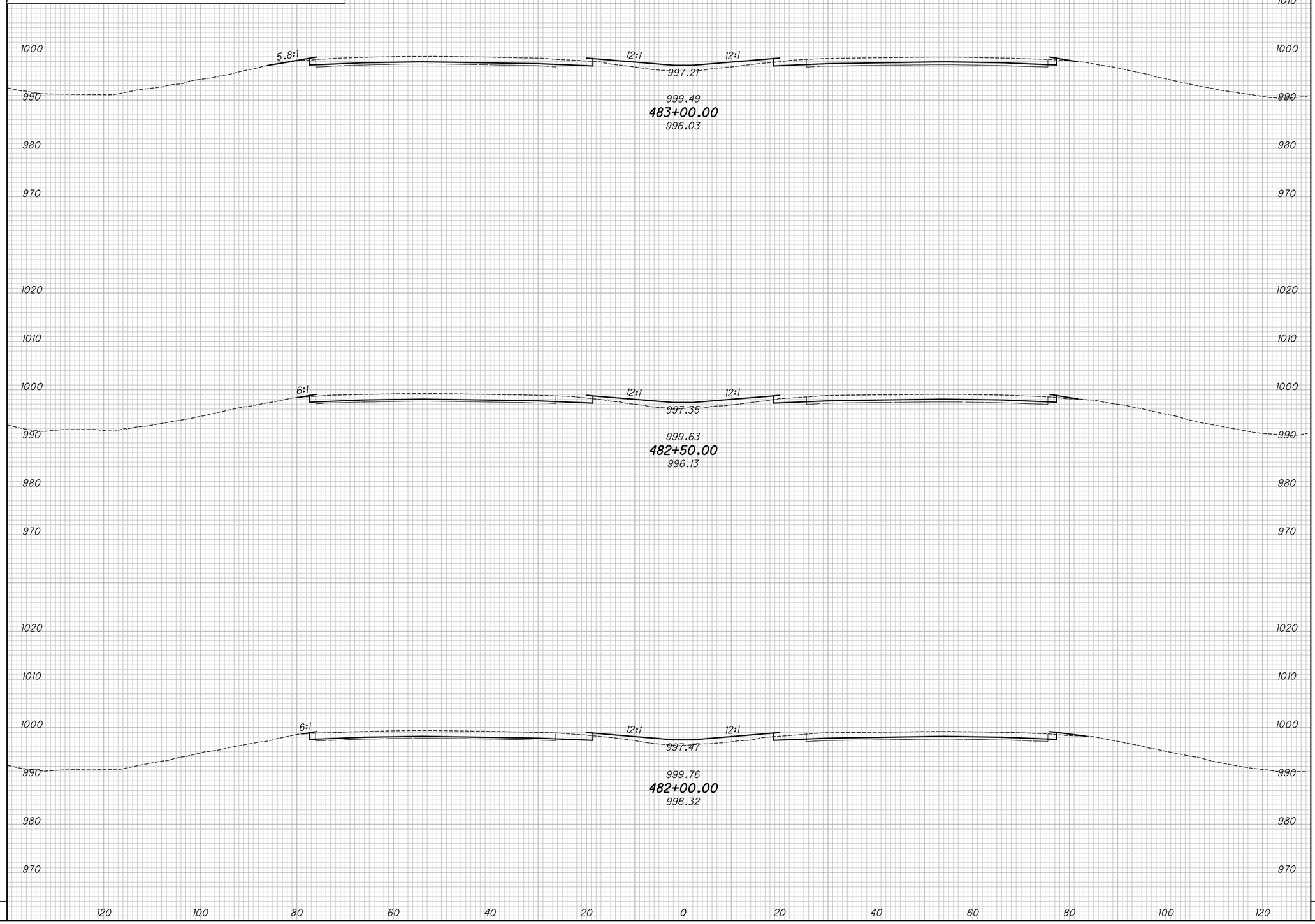
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 482+00.00 TO STA. 483+00.00

MAD-70-8.62

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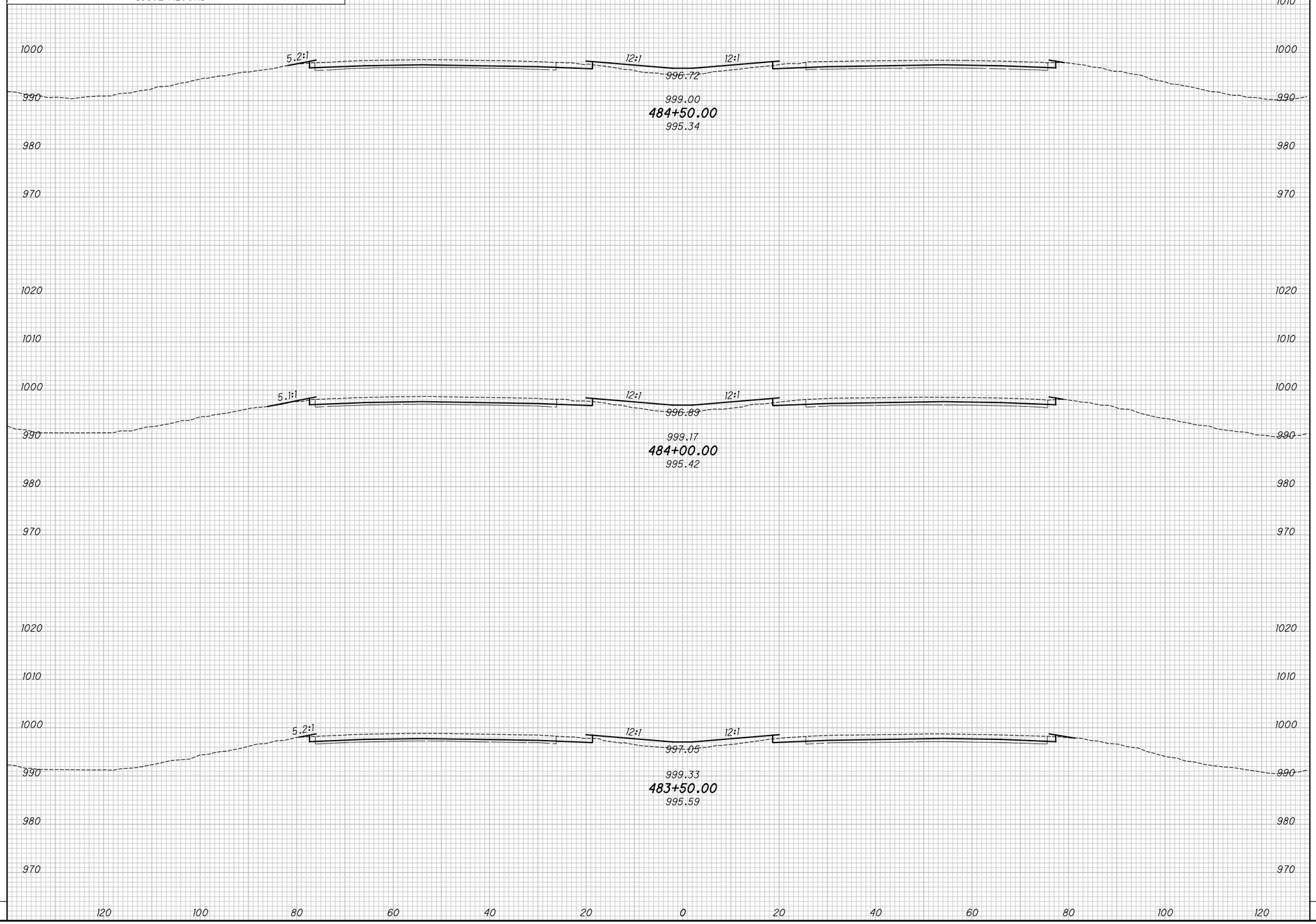
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 483+50.00 TO STA. 484+50.00

MAD-70-8.62

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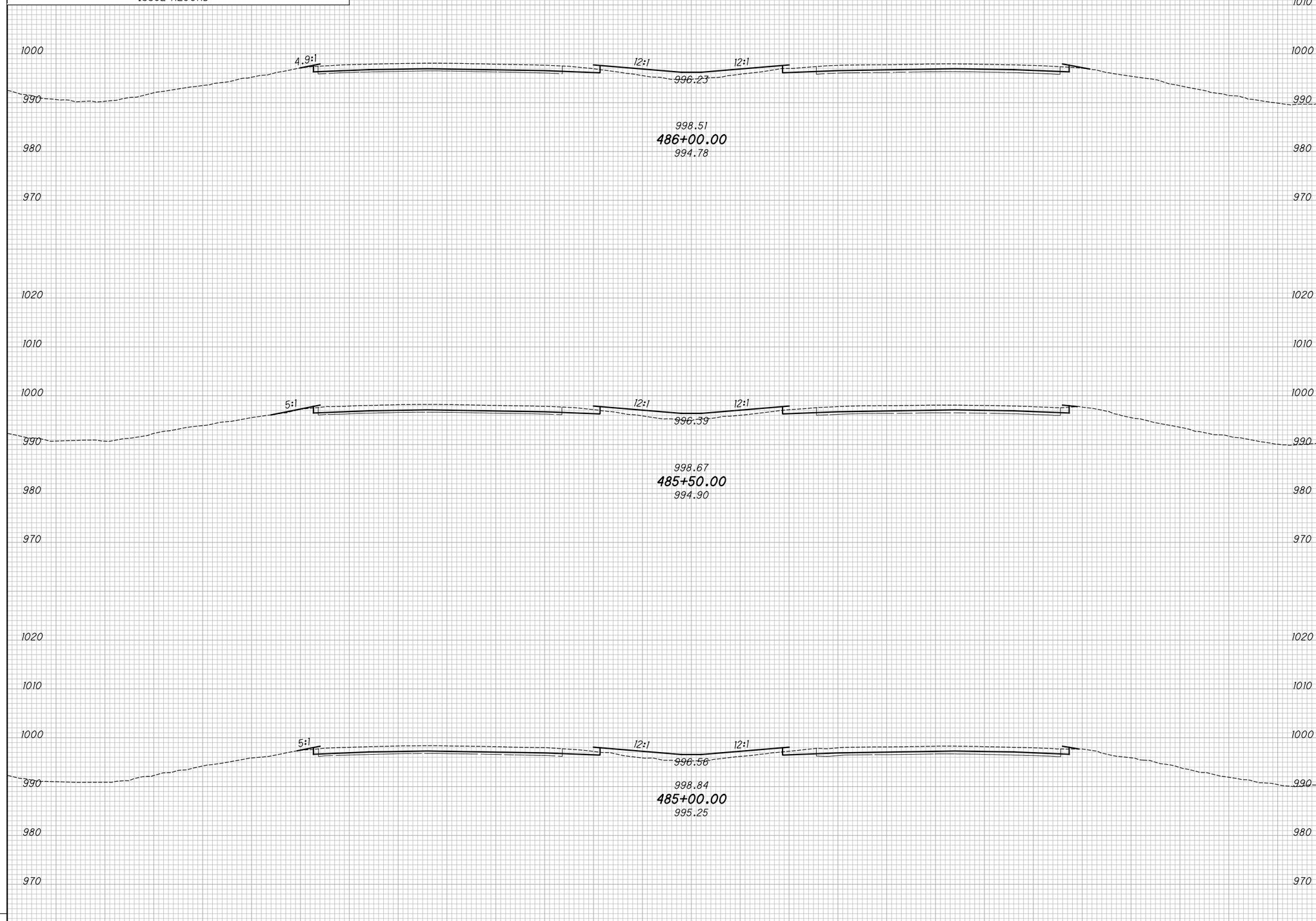
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 485+00.00 TO STA. 486+00.00

MAD-70-8.62

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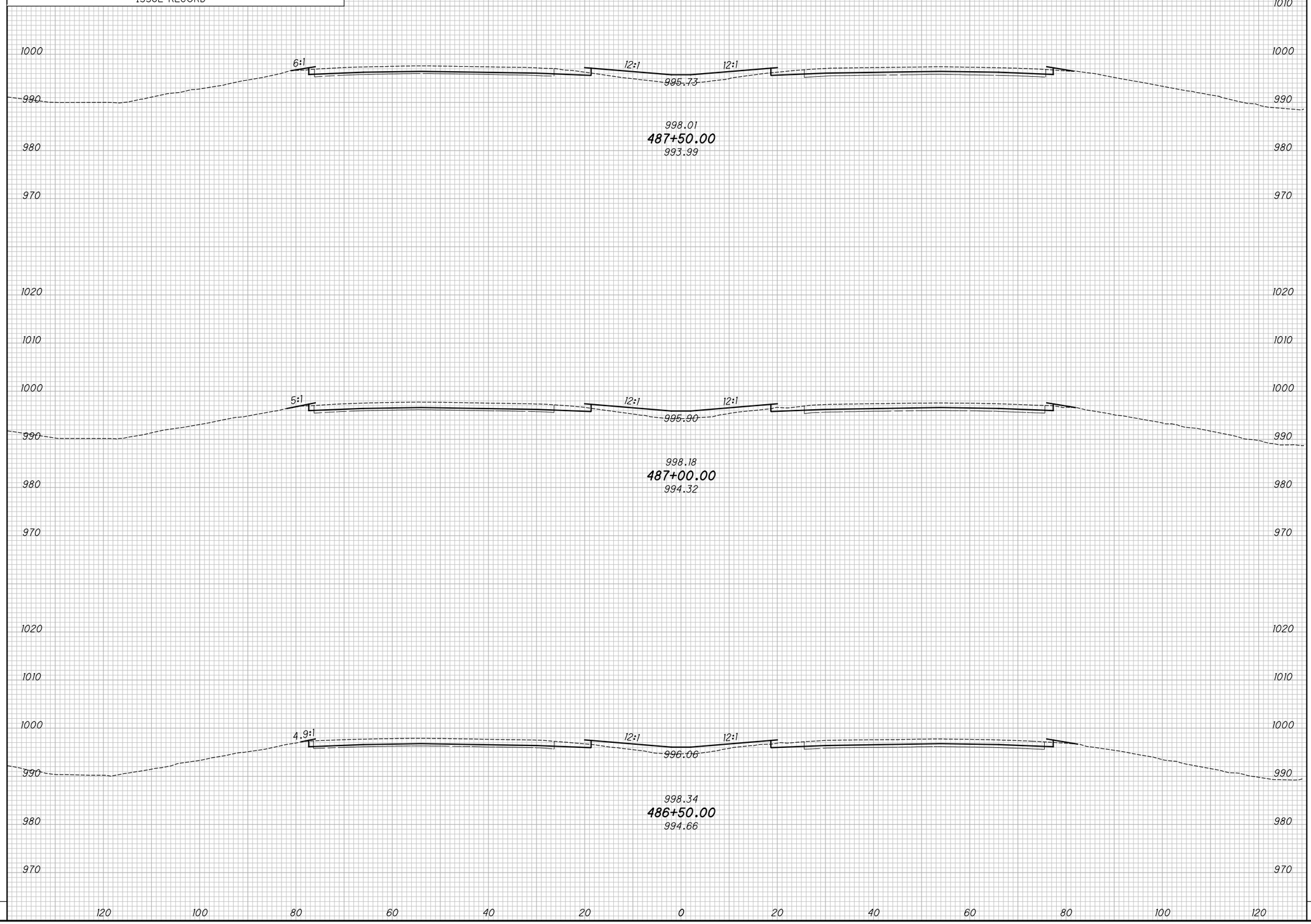
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 486+50.00 TO STA. 487+50.00

MAD-70-8.62

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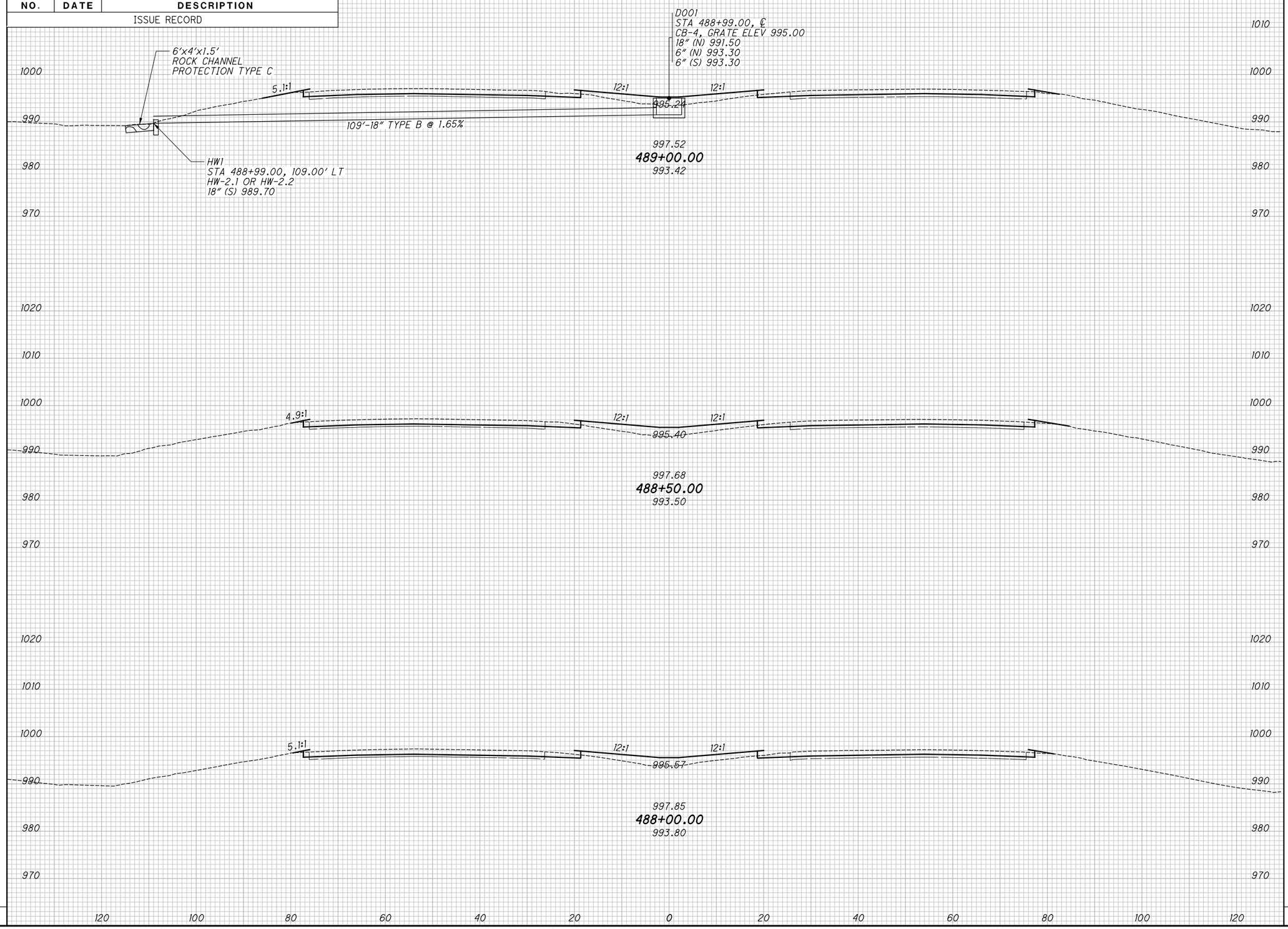
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 488+00.00 TO STA. 489+00.00

MAD-70-8.62

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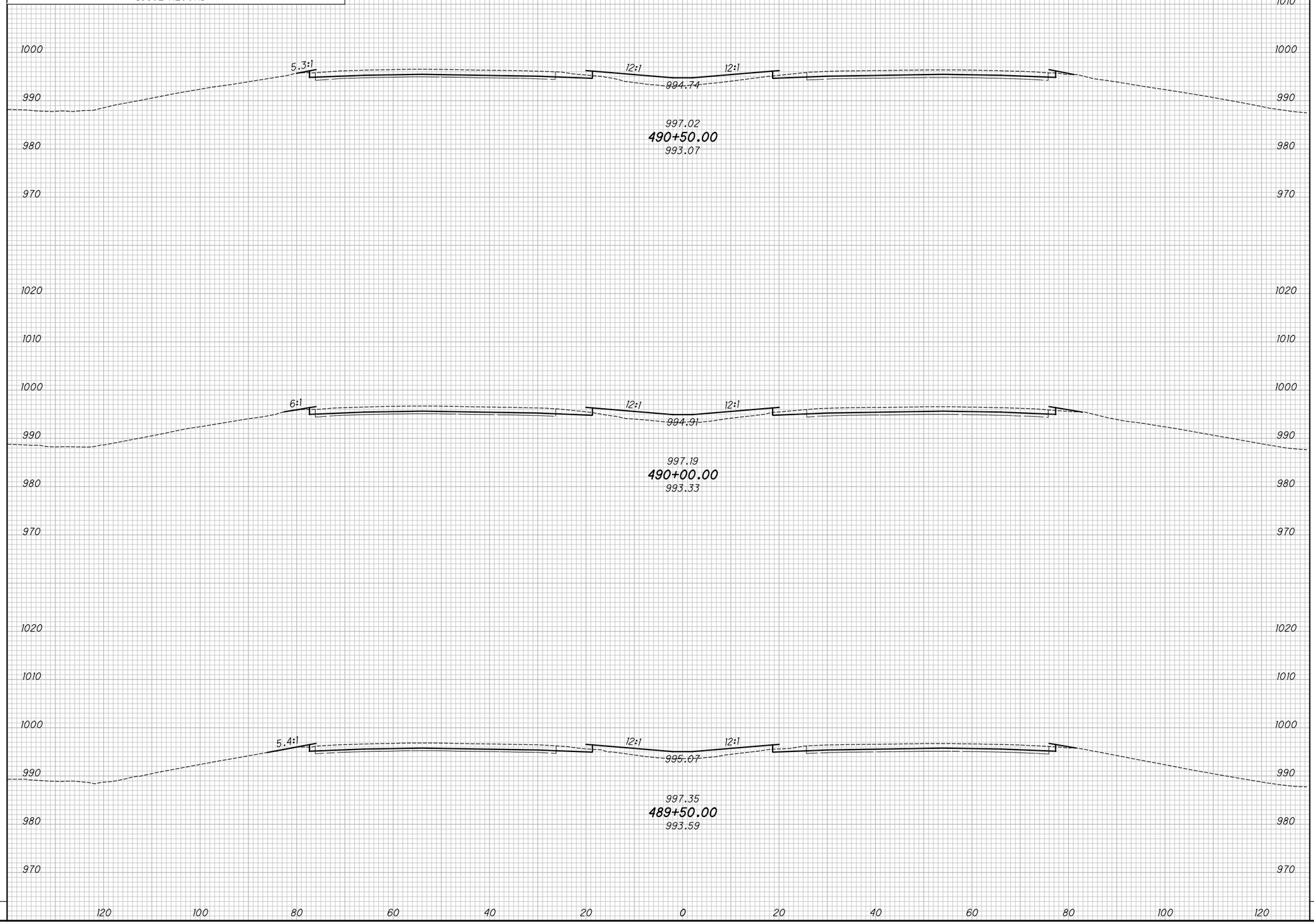
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 489+50.00 TO STA. 490+50.00

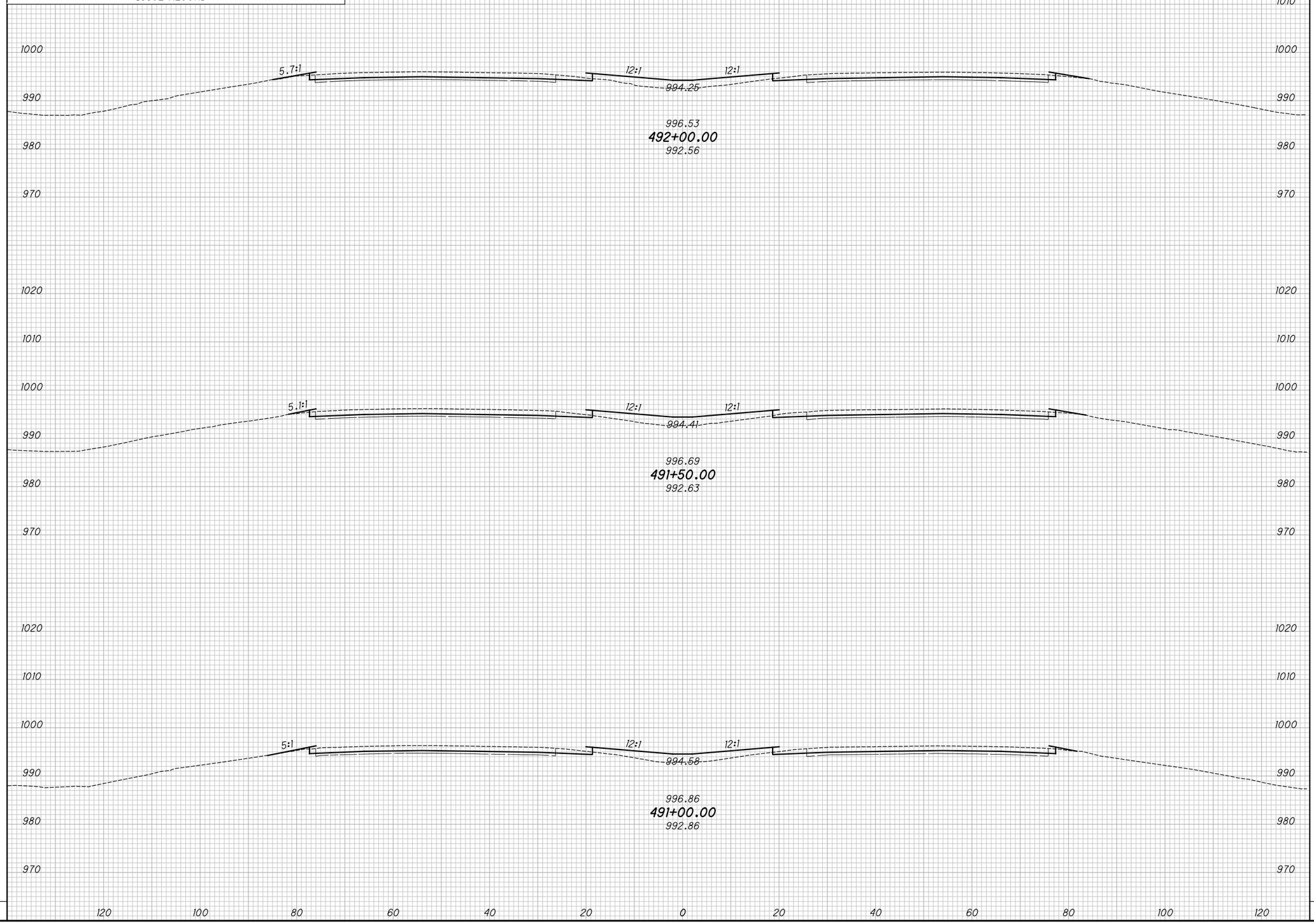
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_18 3/20/2019 9:42:52 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 491+00.00 TO STA. 492+00.00

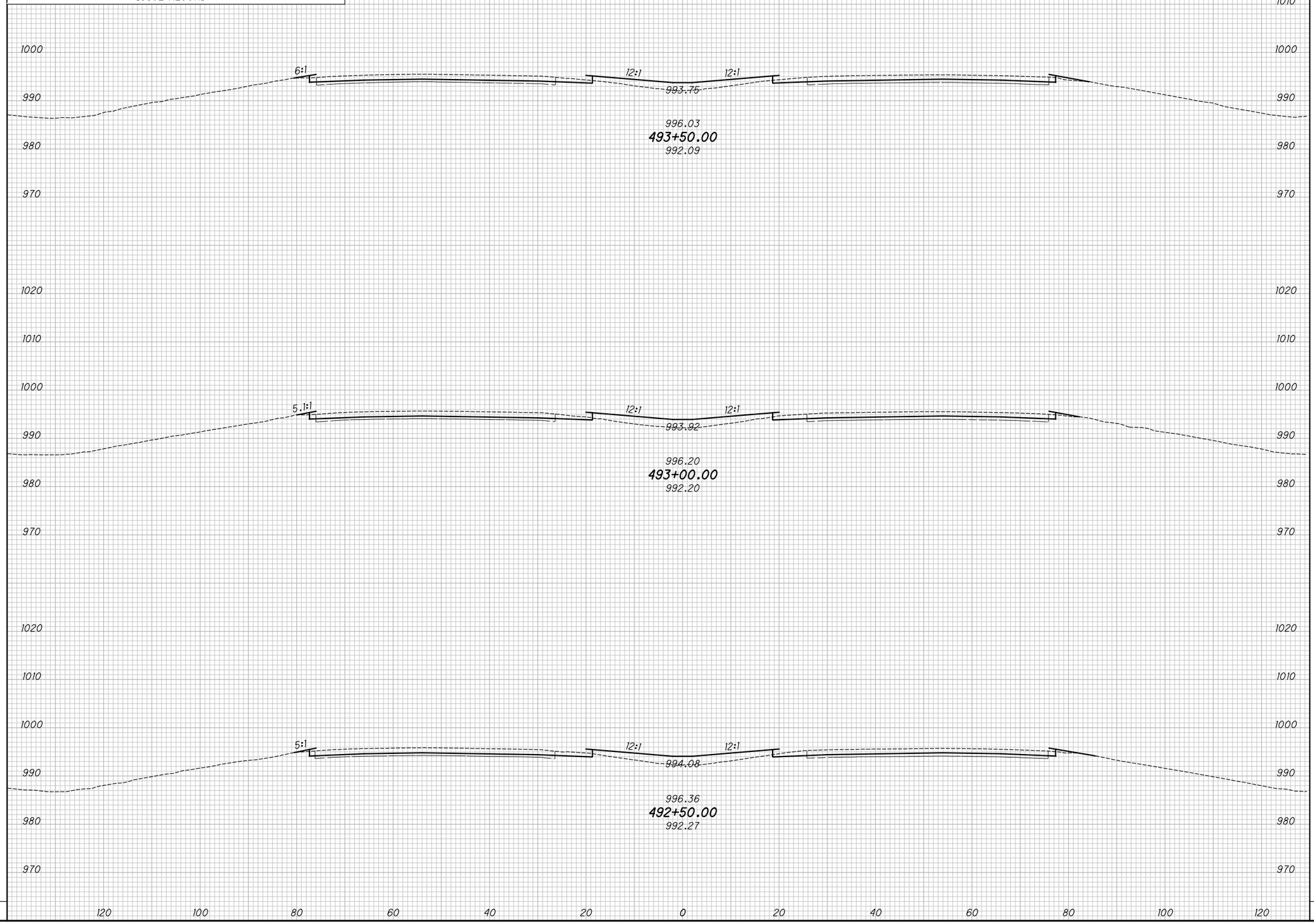
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_19 3/20/2019 9:42:54 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 492+50.00 TO STA. 493+50.00

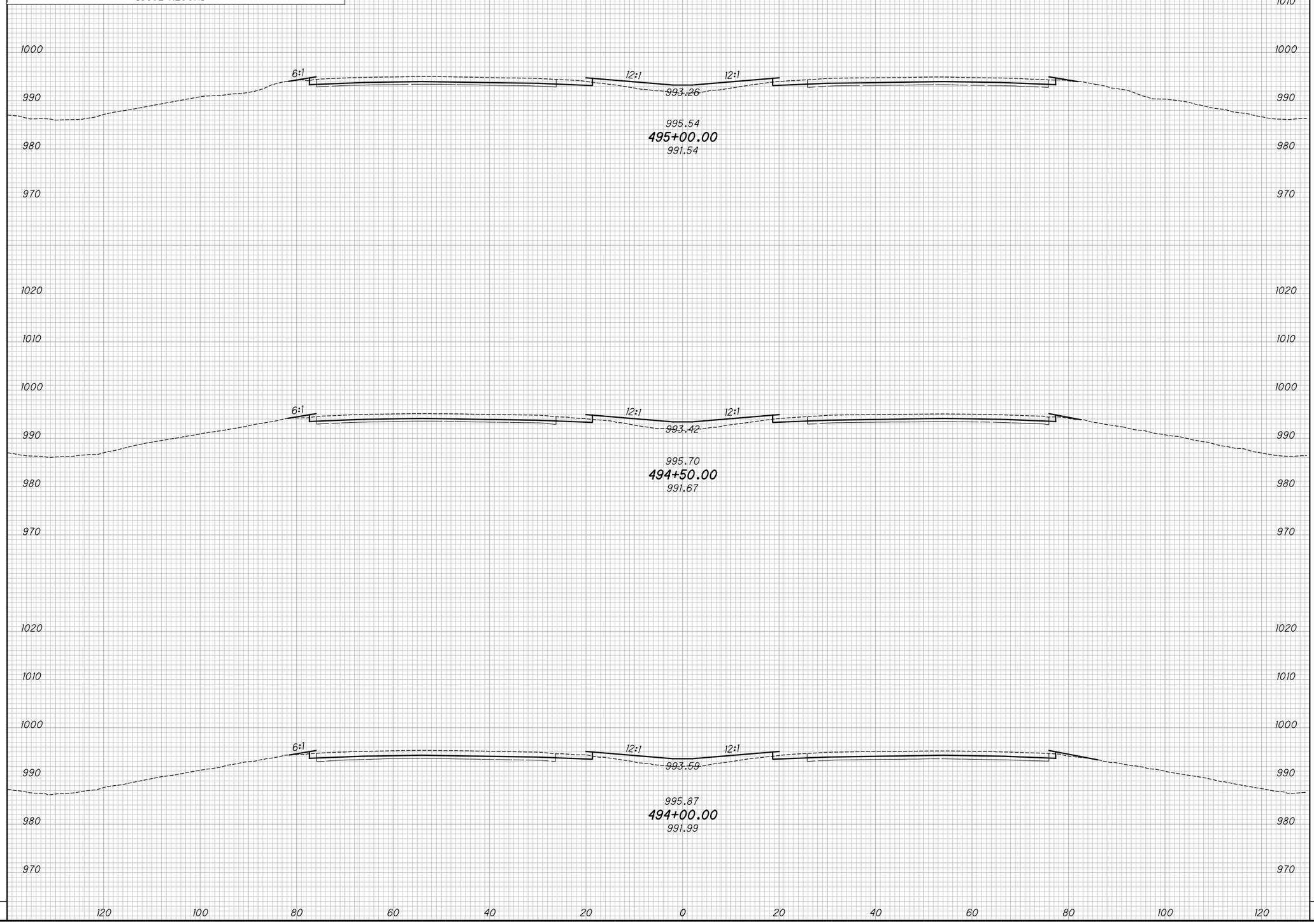
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_20 3/20/2019 9:42:56 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 494+00.00 TO STA. 495+00.00

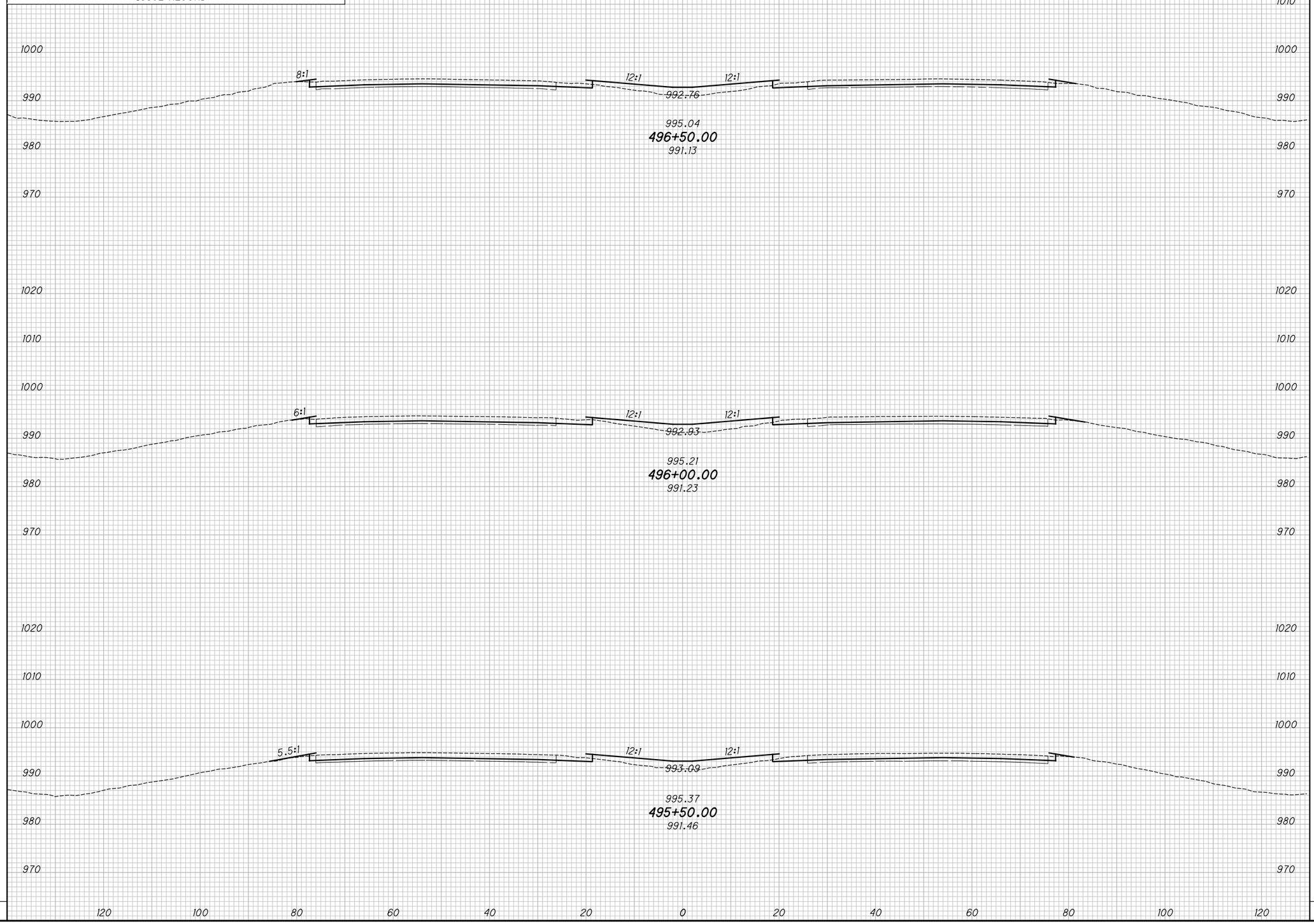
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_2| 3/20/2019 9:42:58 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 495+50.00 TO STA. 496+50.00

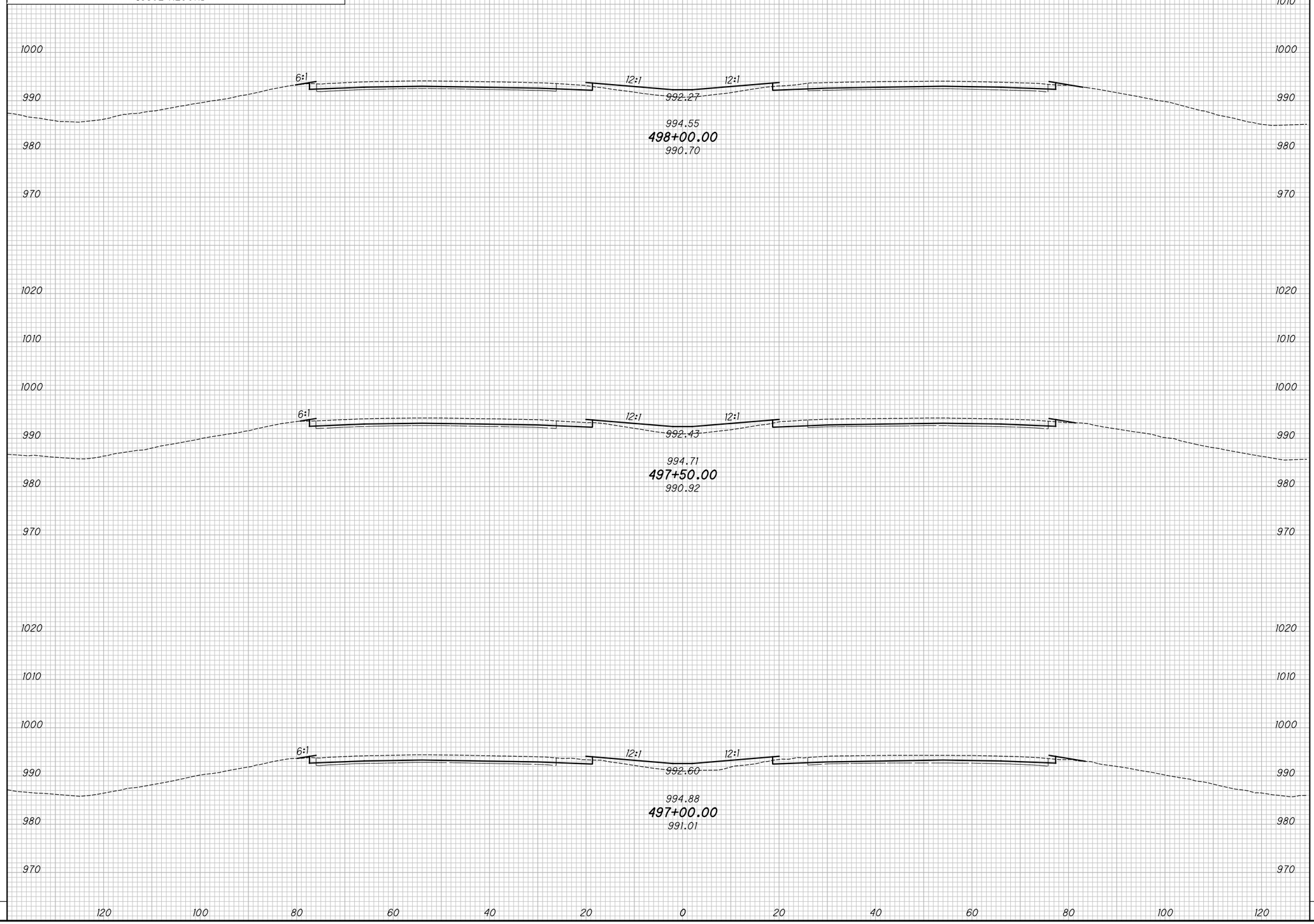
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_22 3/20/2019 9:43:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 497+00.00 TO STA. 498+00.00

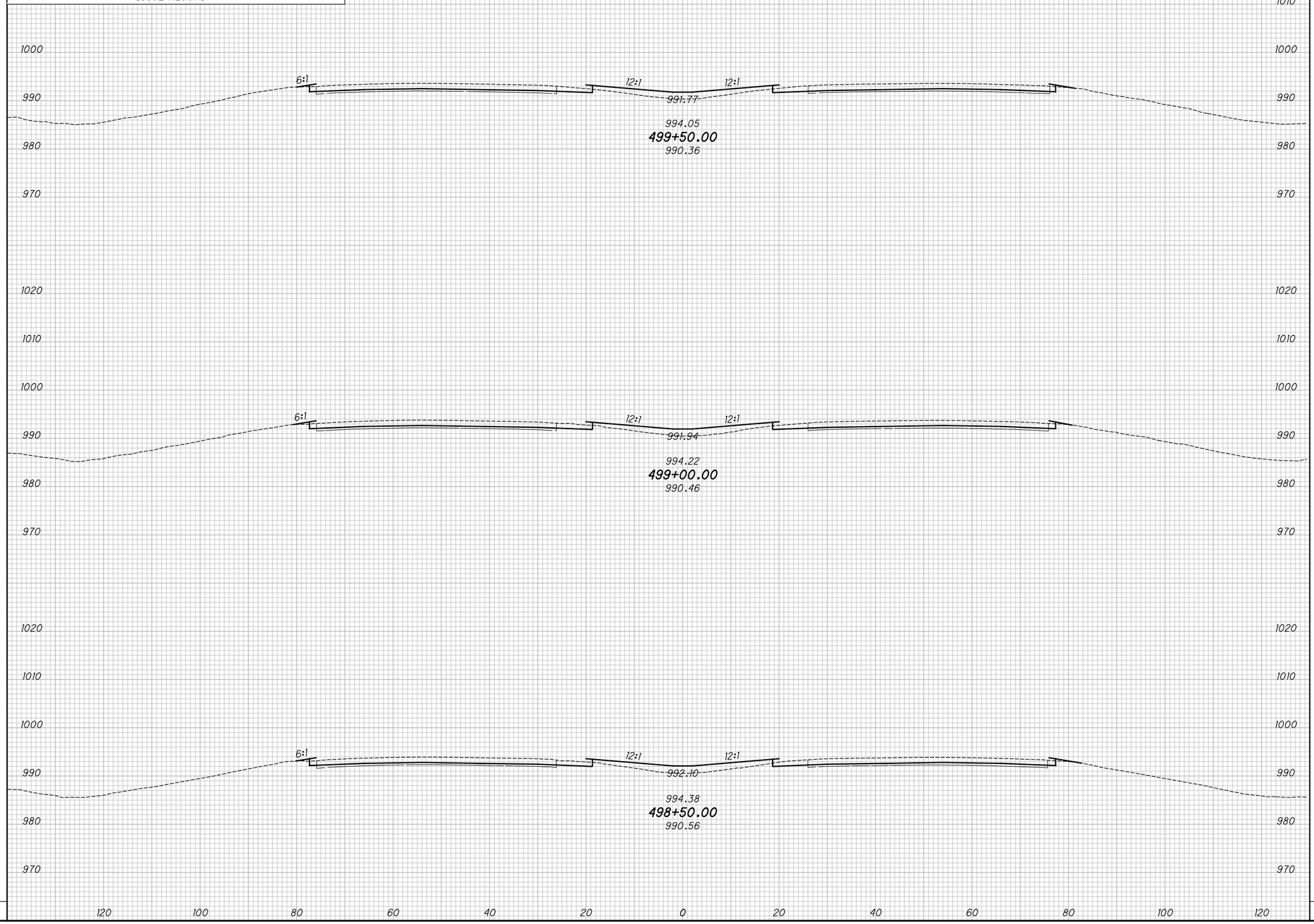
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_23 3/20/2019 9:43:02 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 498+50.00 TO STA. 499+50.00

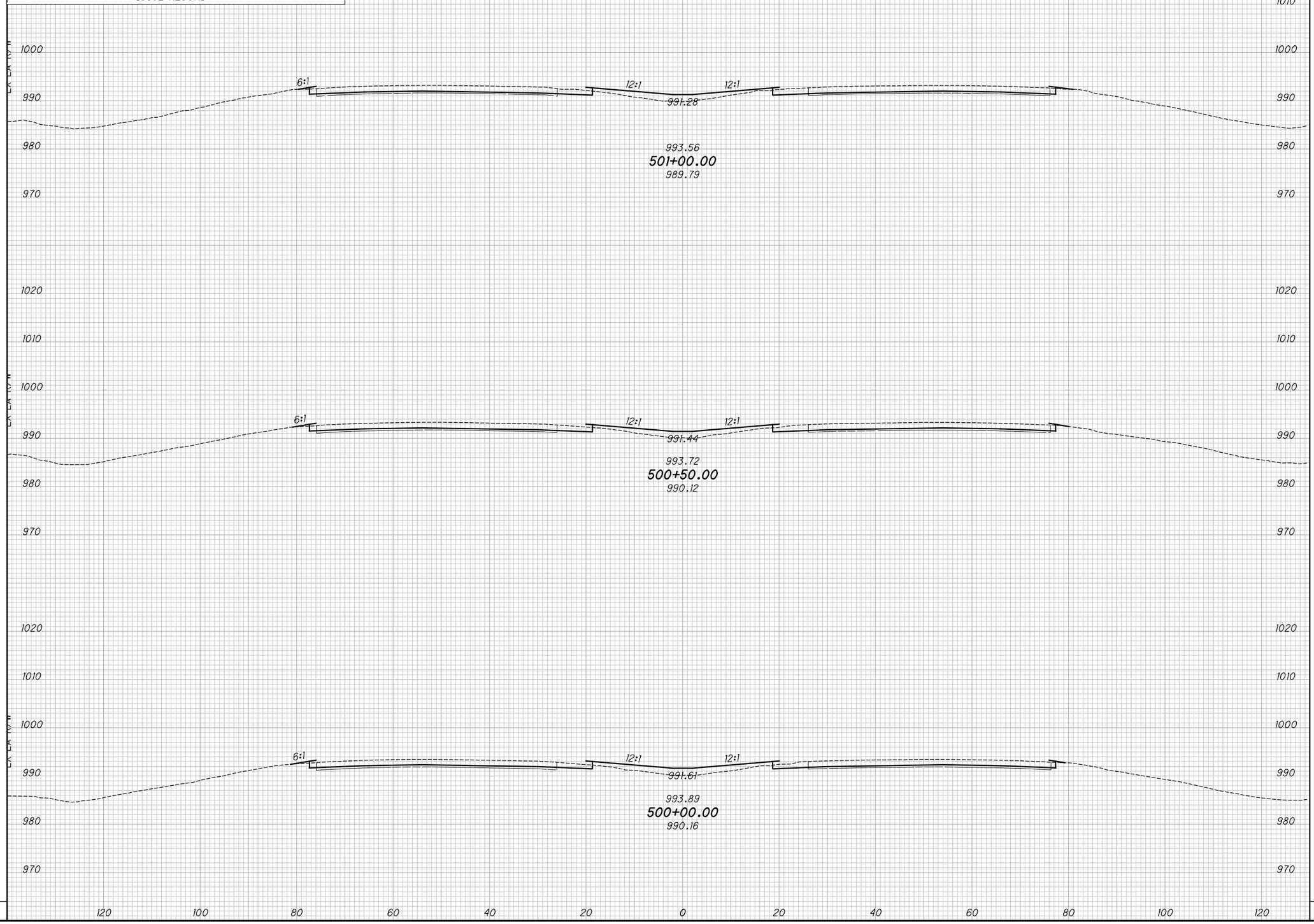
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_24 3/20/2019 9:43:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 500+00.00 TO STA. 501+00.00

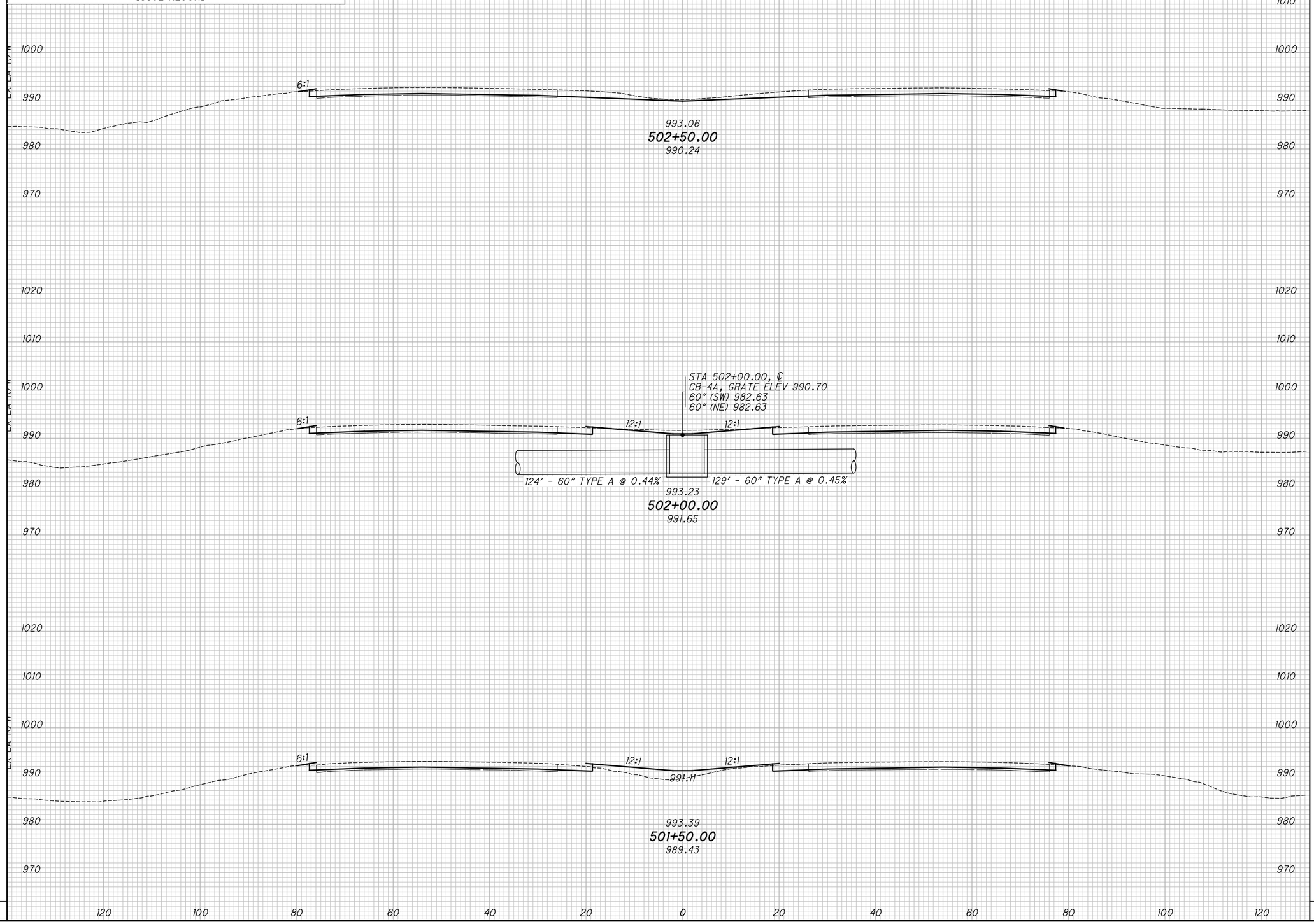
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_25 3/20/2019 9:43:06 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 501+50.00 TO STA. 502+50.00

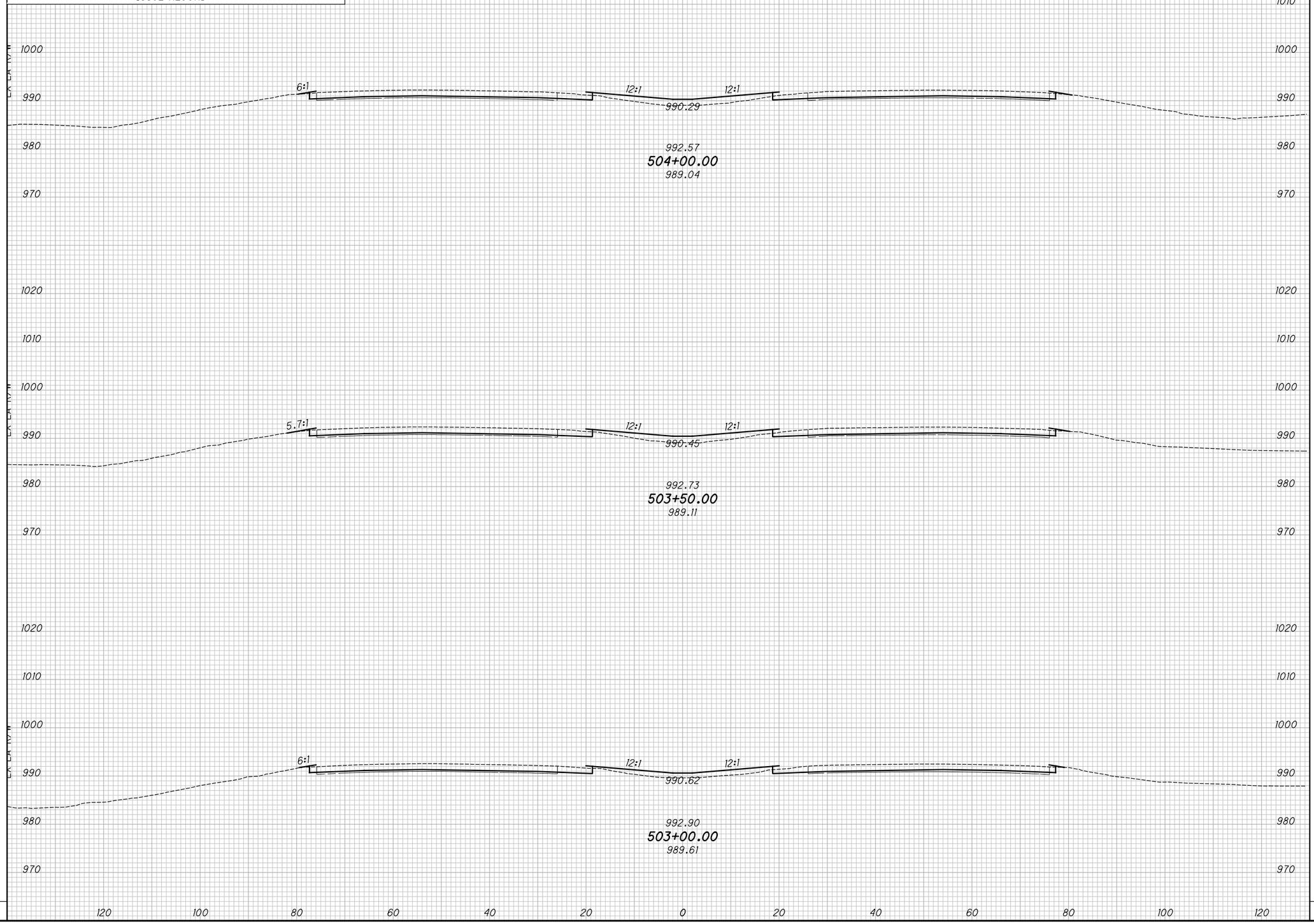
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_26 3/20/2019 9:43:08 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 503+00.00 TO STA. 504+00.00

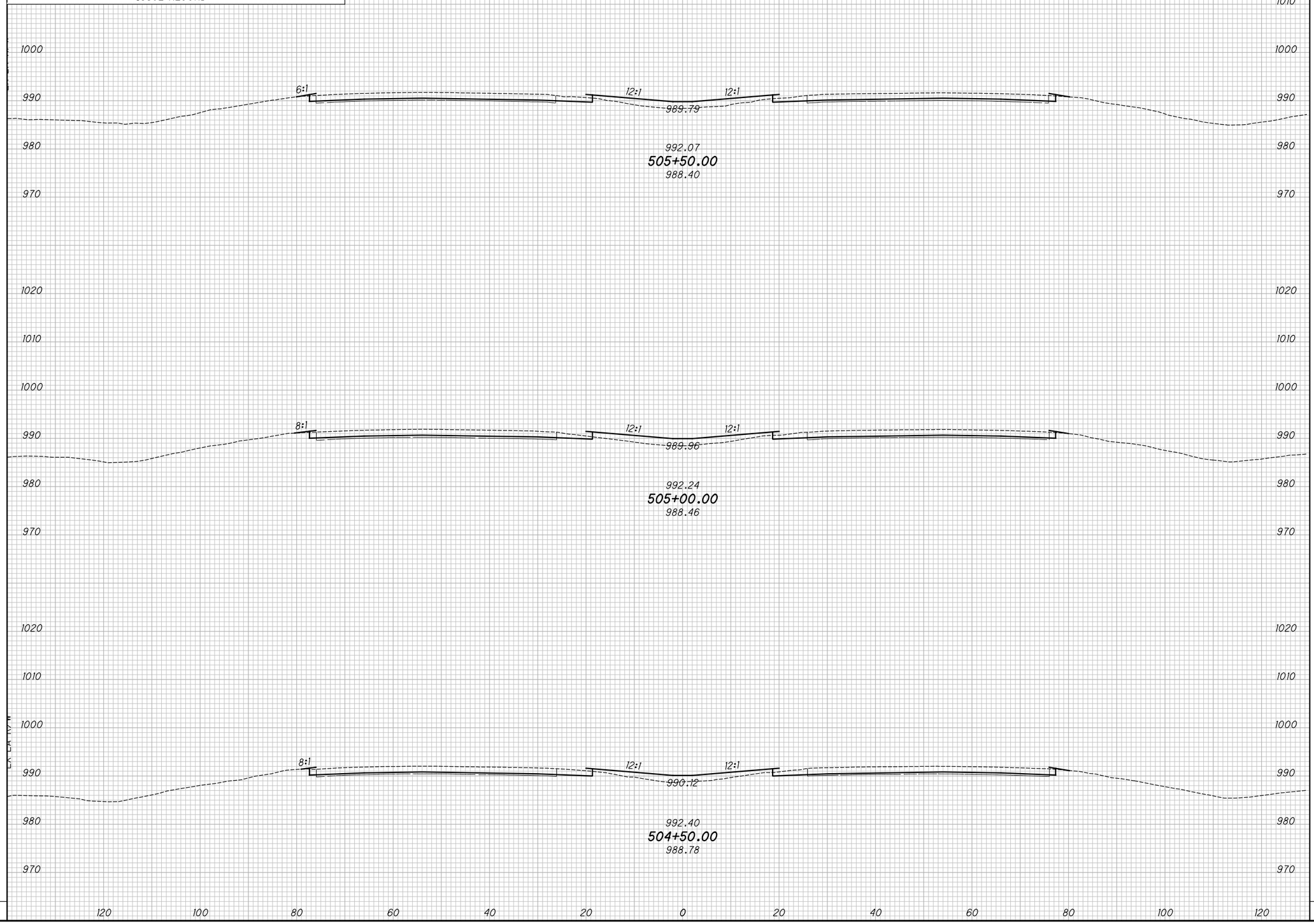
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_27 3/20/2019 9:43:10 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 504+50.00 TO STA. 505+50.00

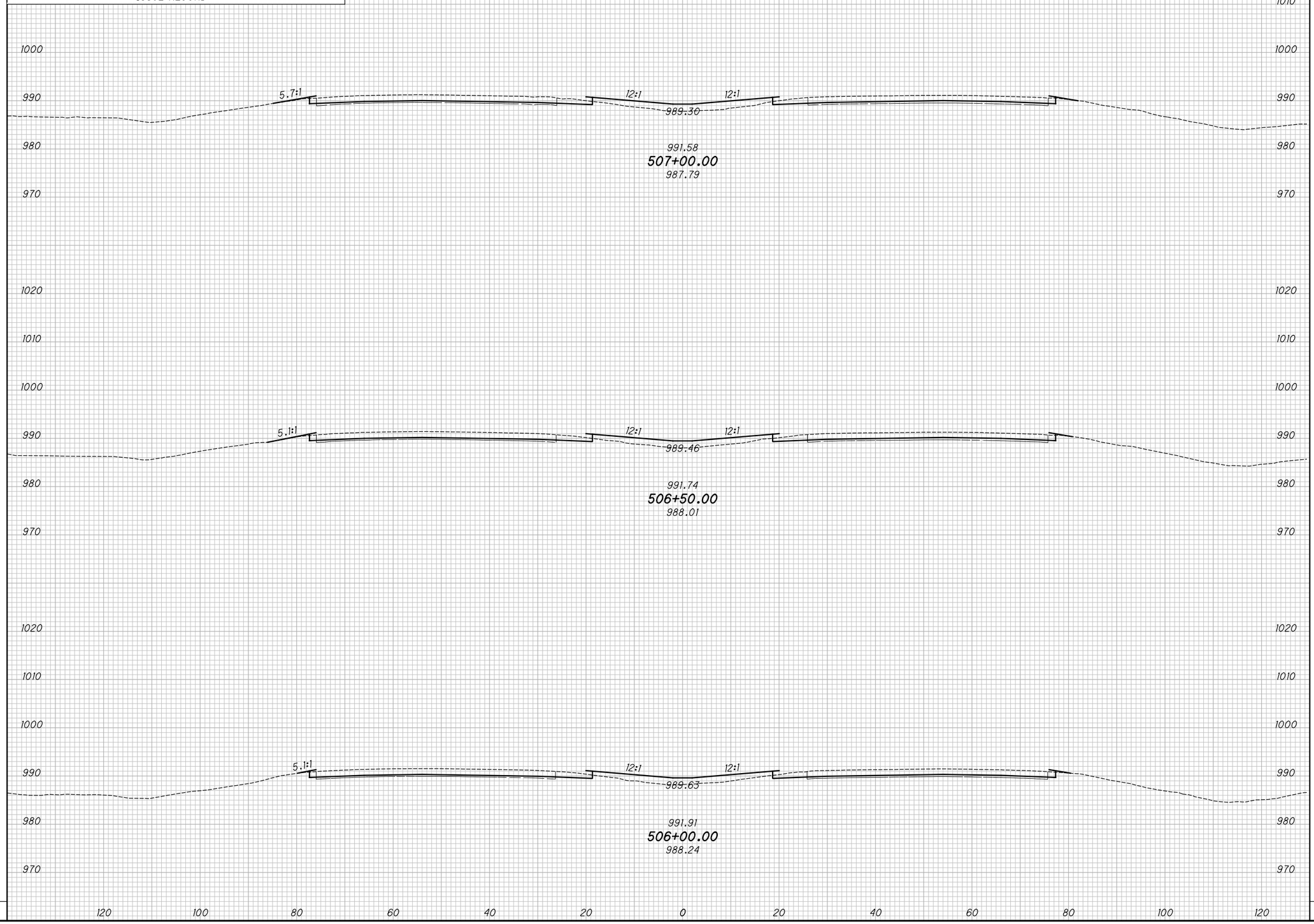
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_28 3/20/2019 9:43:12 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 506+00.00 TO STA. 507+00.00

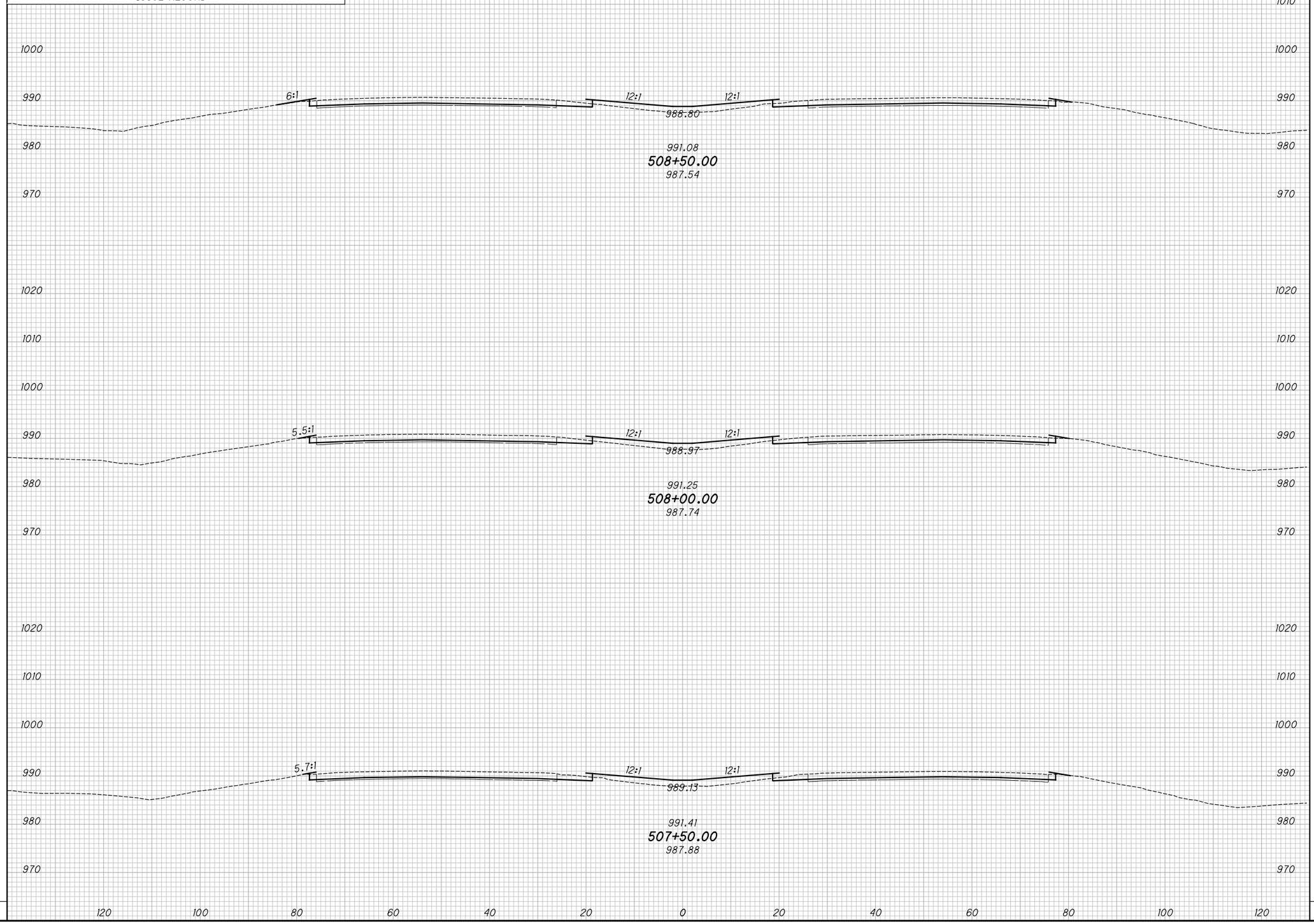
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_29 3/20/2019 9:43:14 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 507+50.00 TO STA. 508+50.00

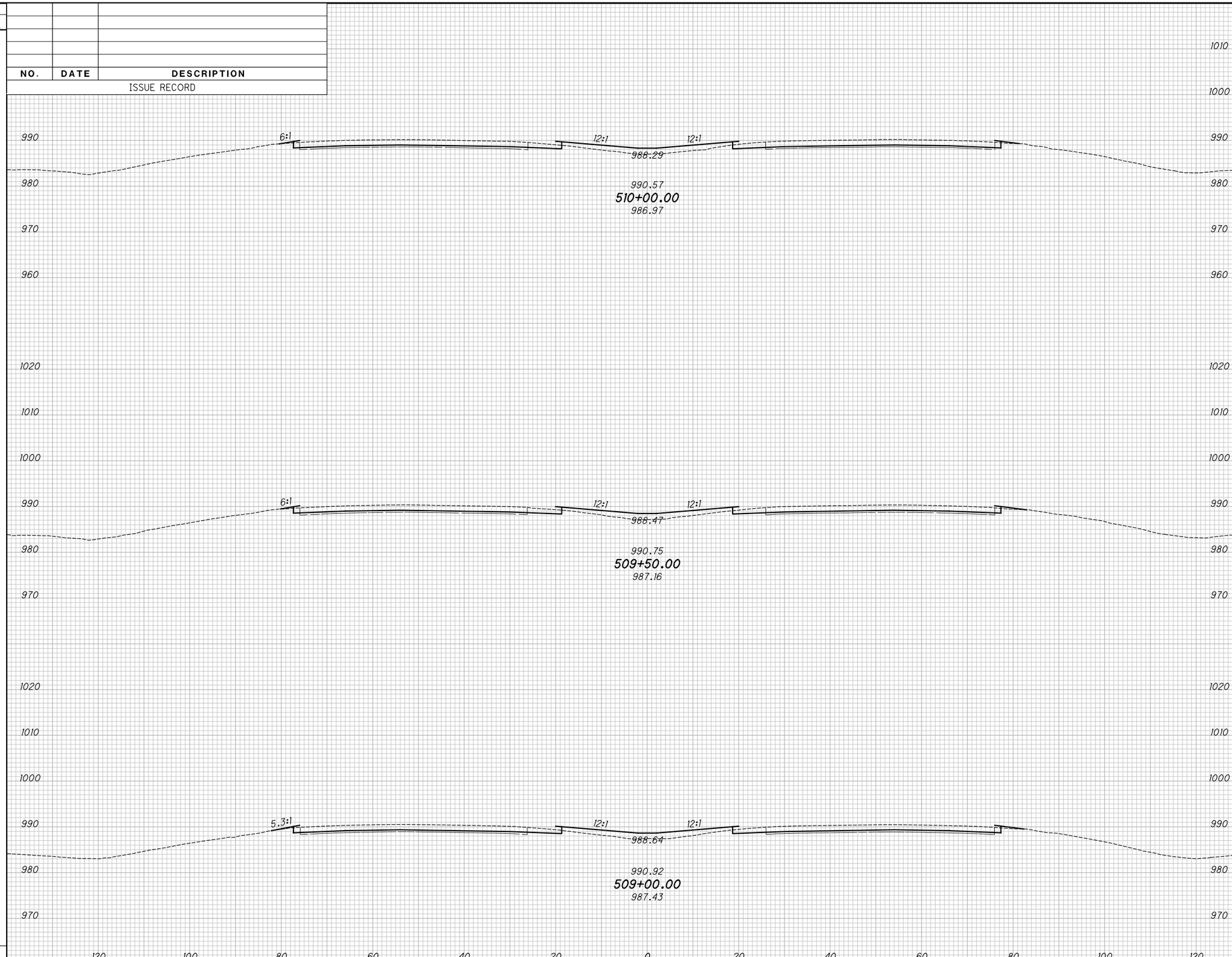
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_30 3/20/2019 9:43:16 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 509+00.00 TO STA. 510+00.00

MAD-70-8.62

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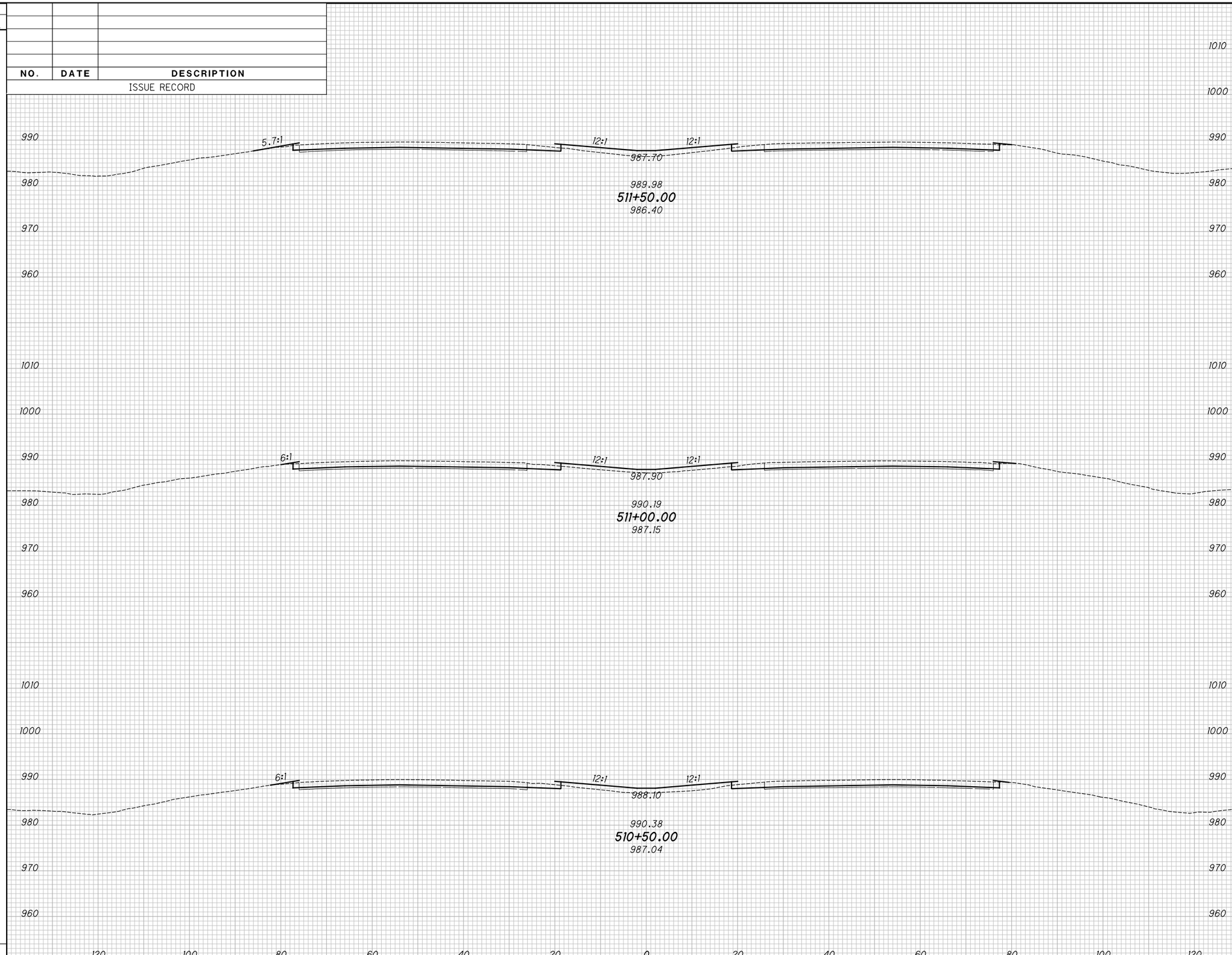
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 510+50.00 TO STA. 511+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_32 3/20/2019 9:43:20 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 512+00.00 TO STA. 513+00.00

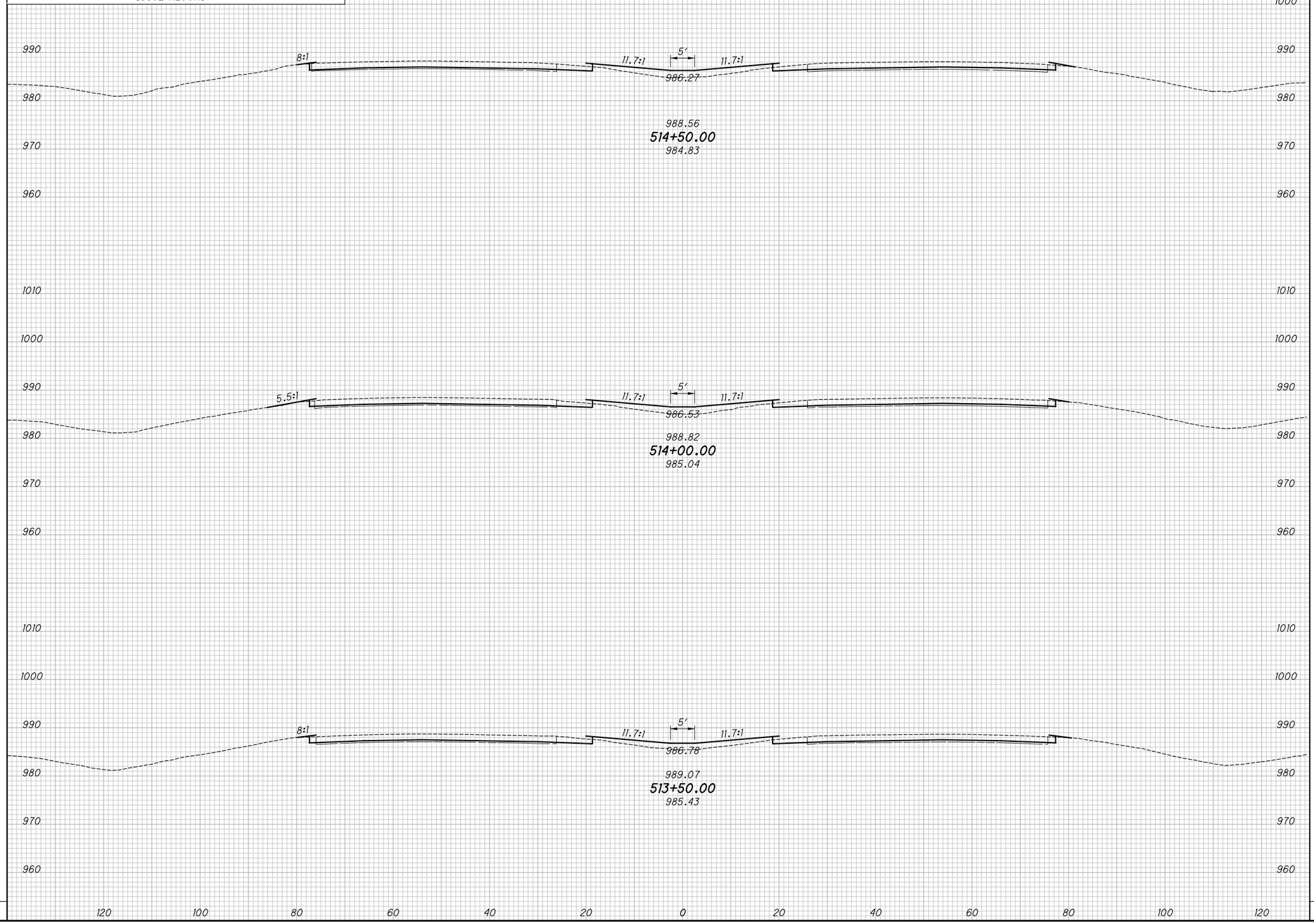
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_33 3/20/2019 9:43:22 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 513+50.00 TO STA. 514+50.00

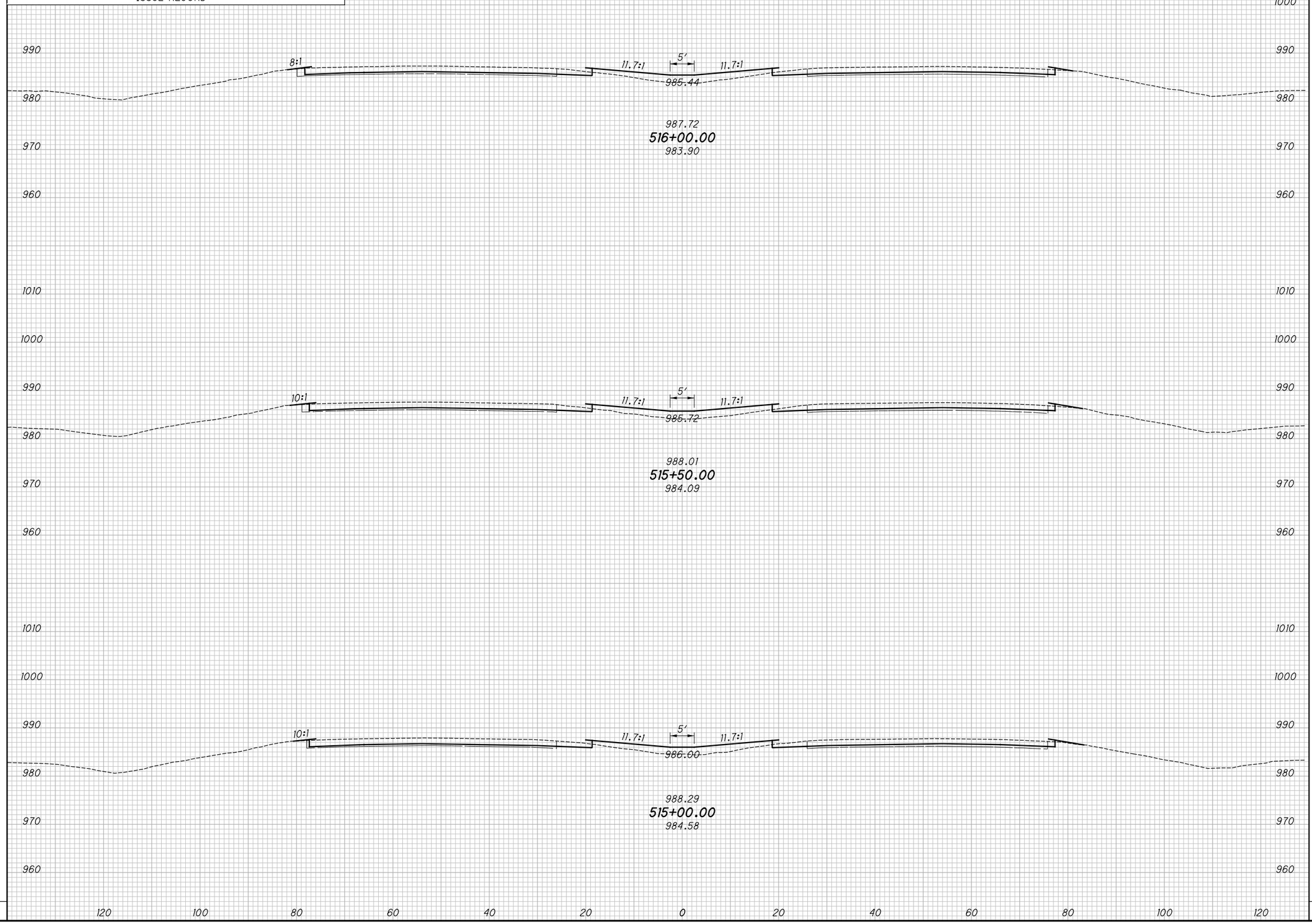
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_34 3/20/2019 9:43:24 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 515+00.00 TO STA. 516+00.00

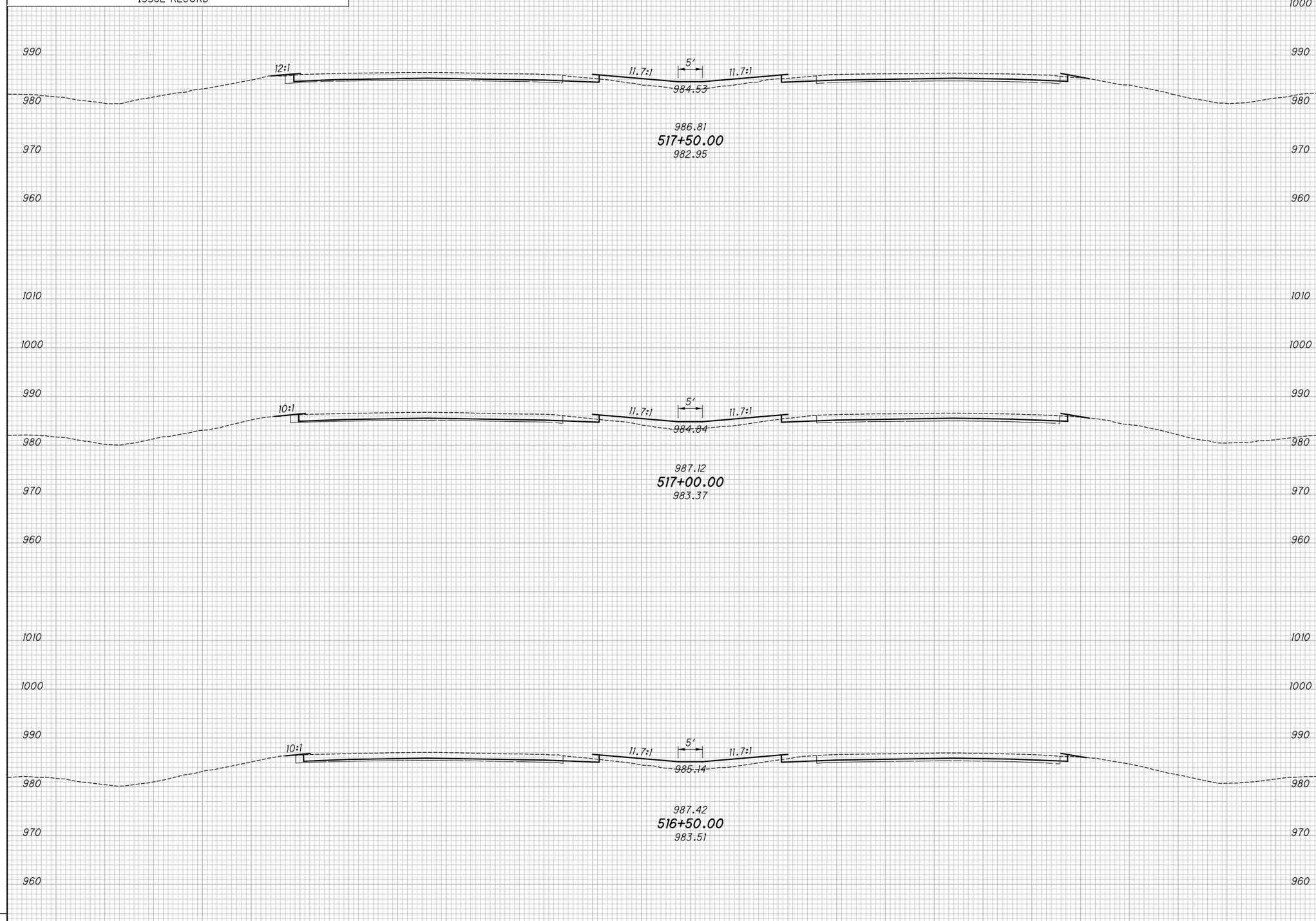
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_35 3/20/2019 9:43:26 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 516+50.00 TO STA. 517+50.00

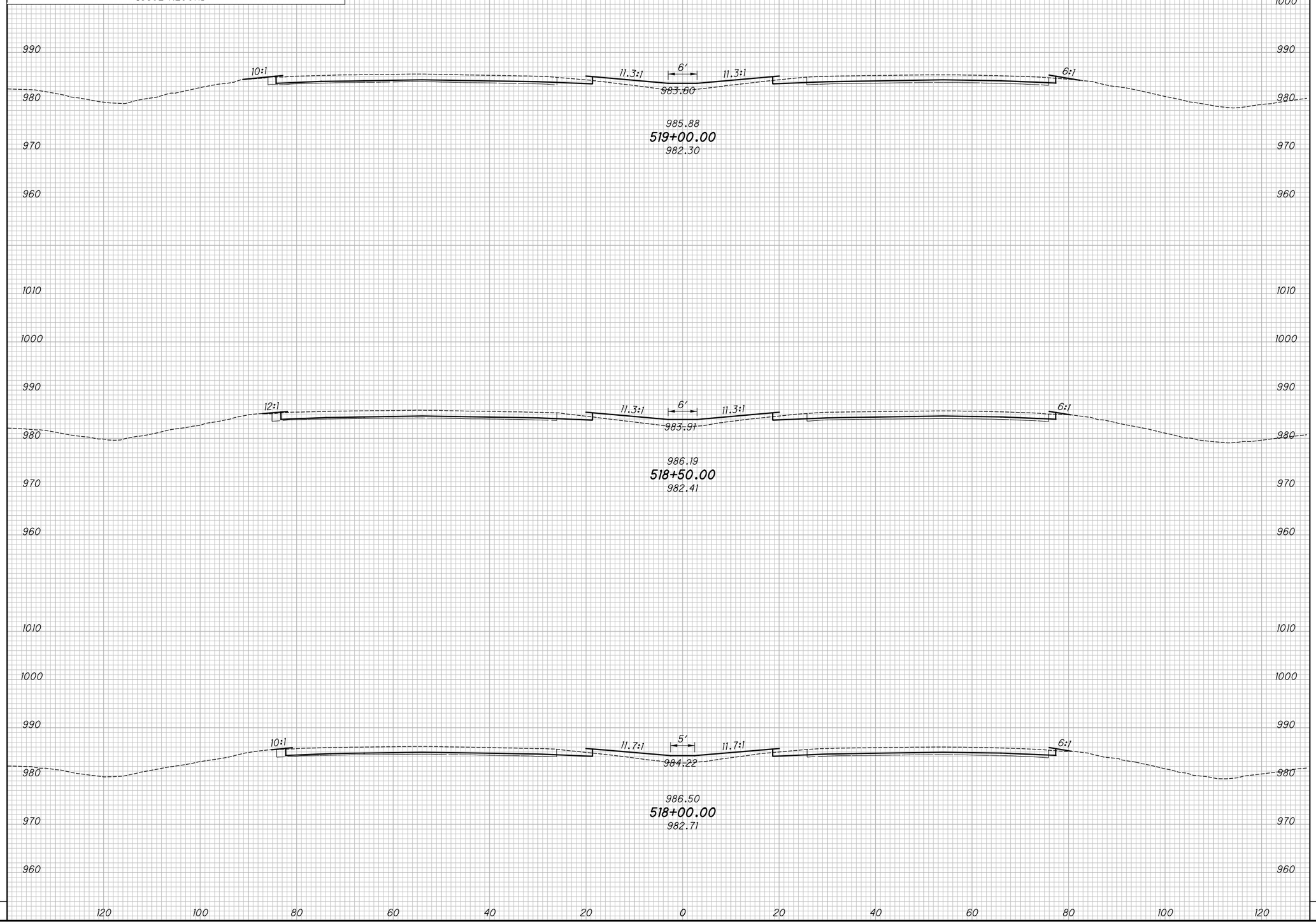
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_36 3/20/2019 9:43:28 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 518+00.00 TO STA. 519+00.00

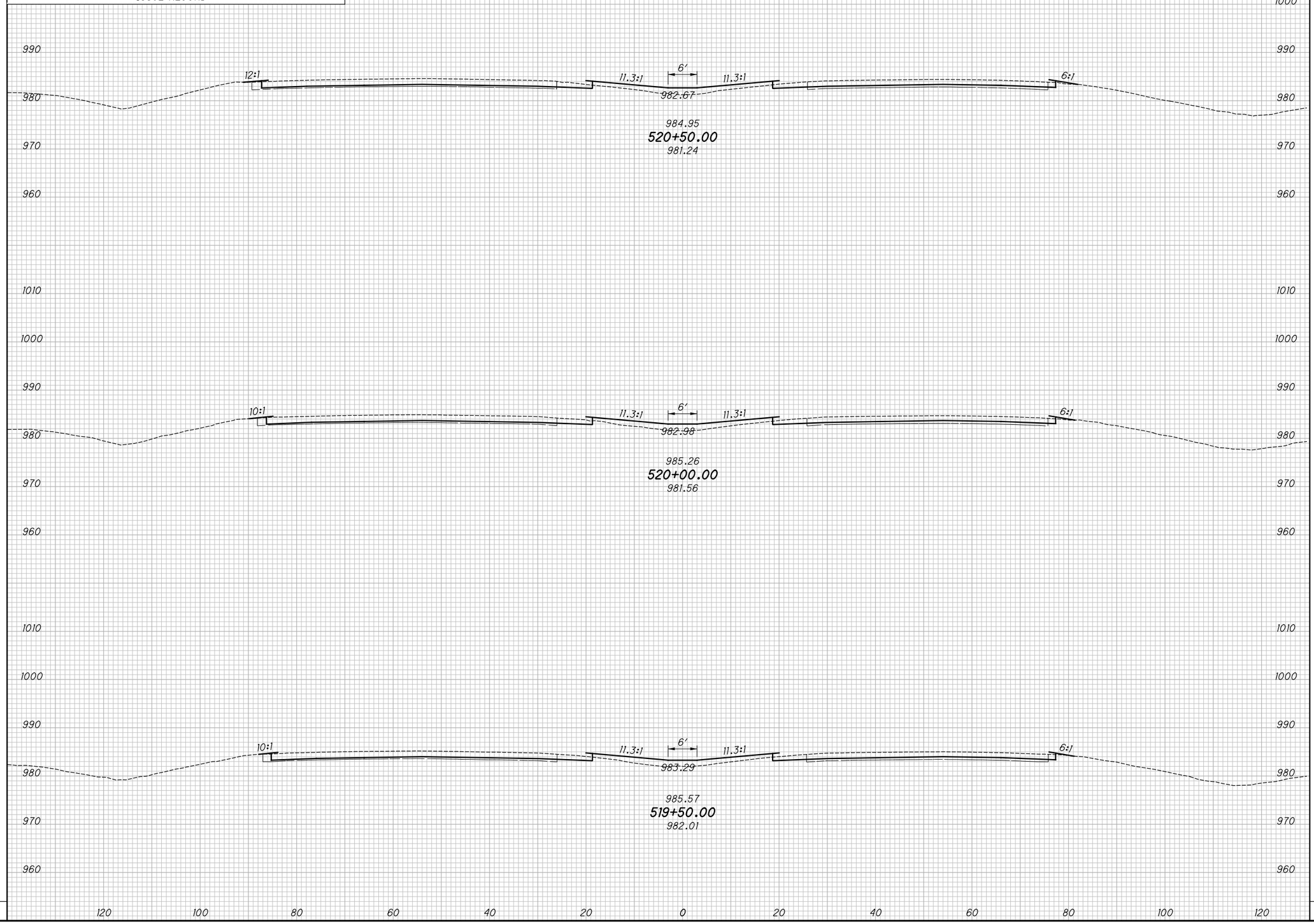
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_37 3/20/2019 9:43:30 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 519+50.00 TO STA. 520+50.00

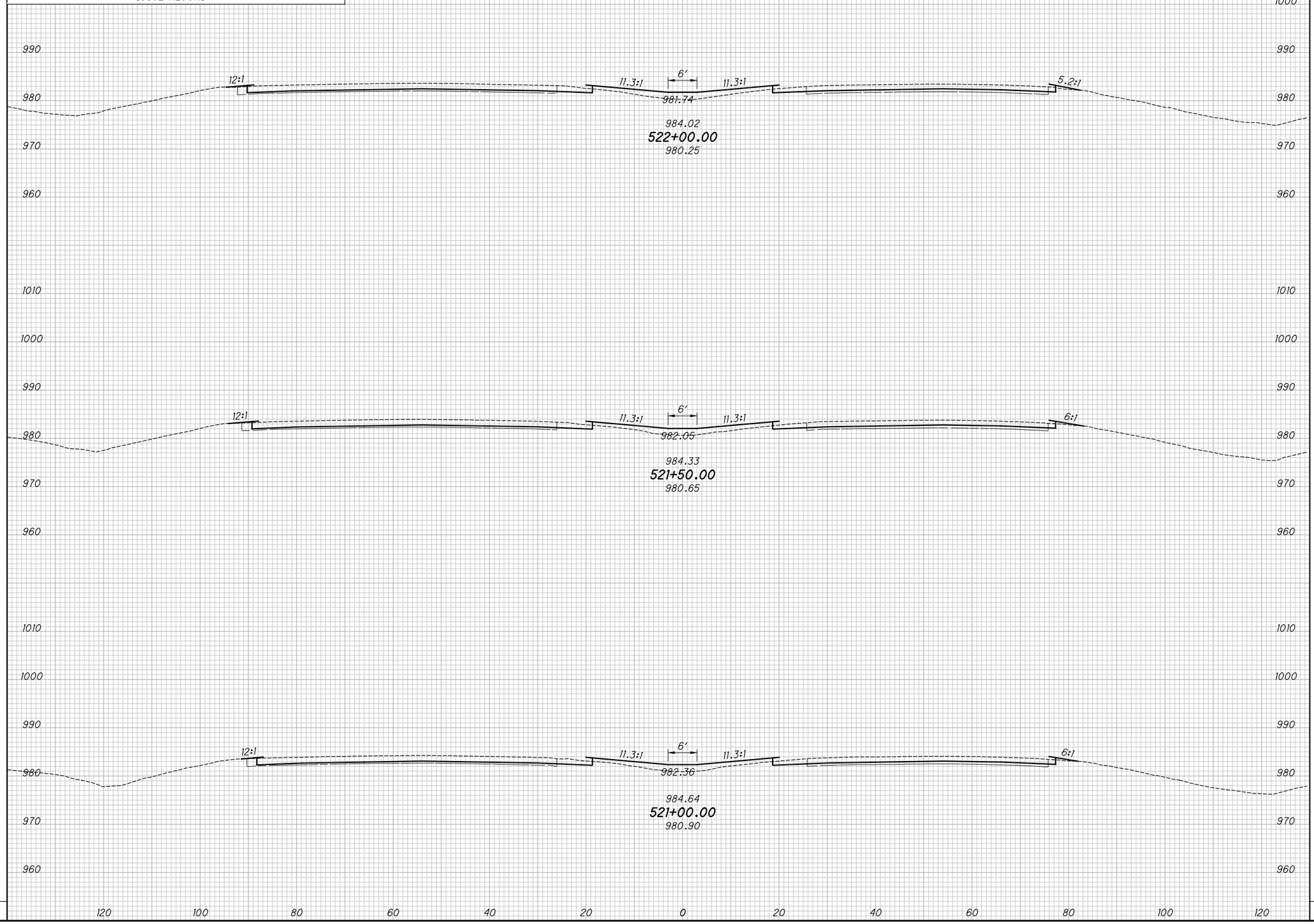
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_38 3/20/2019 9:43:32 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 521+00.00 TO STA. 522+00.00

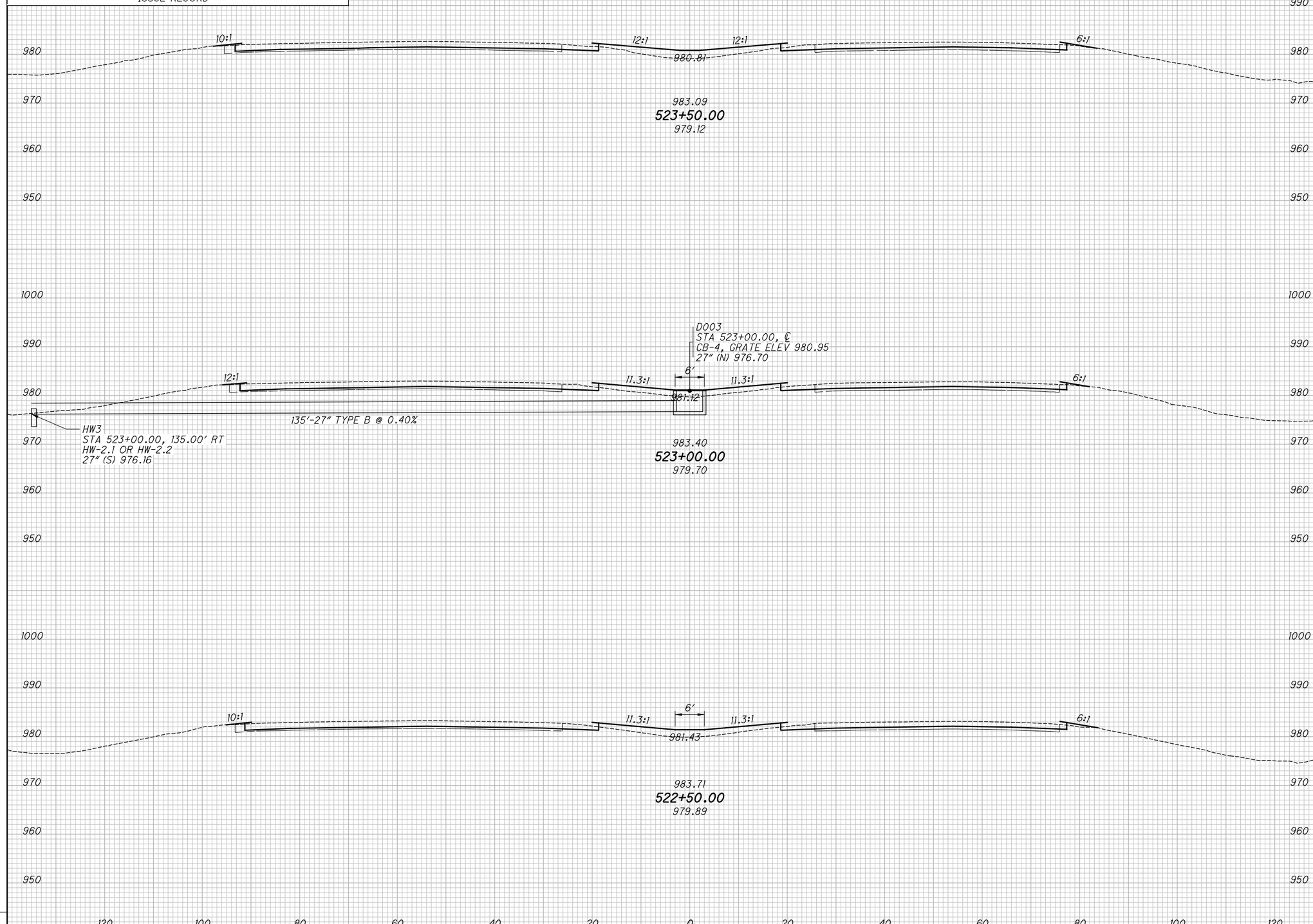
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_39 3/20/2019 9:43:34 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 522+50.00 TO STA. 523+50.00

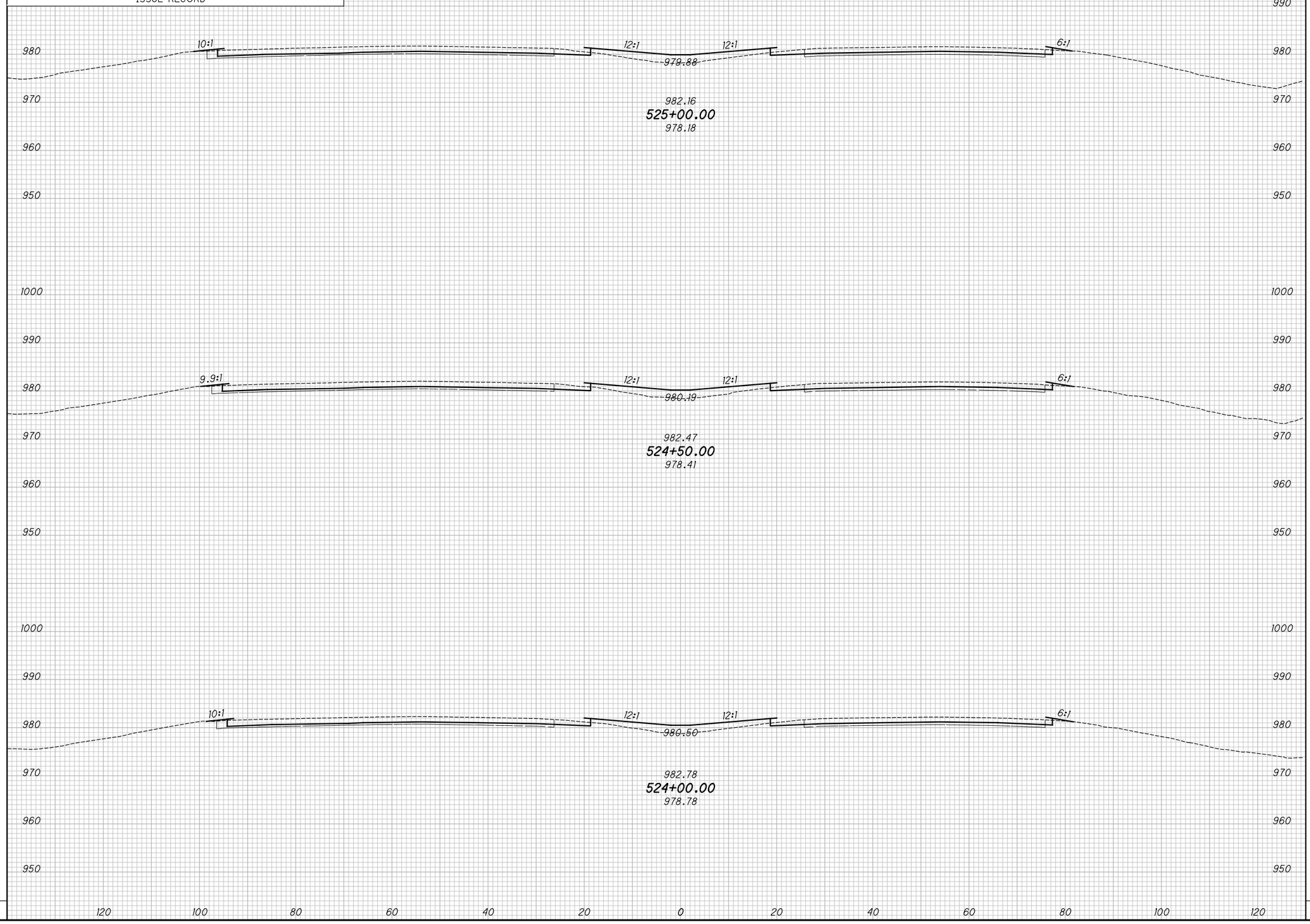
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_40 3/20/2019 9:43:36 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 524+00.00 TO STA. 525+00.00

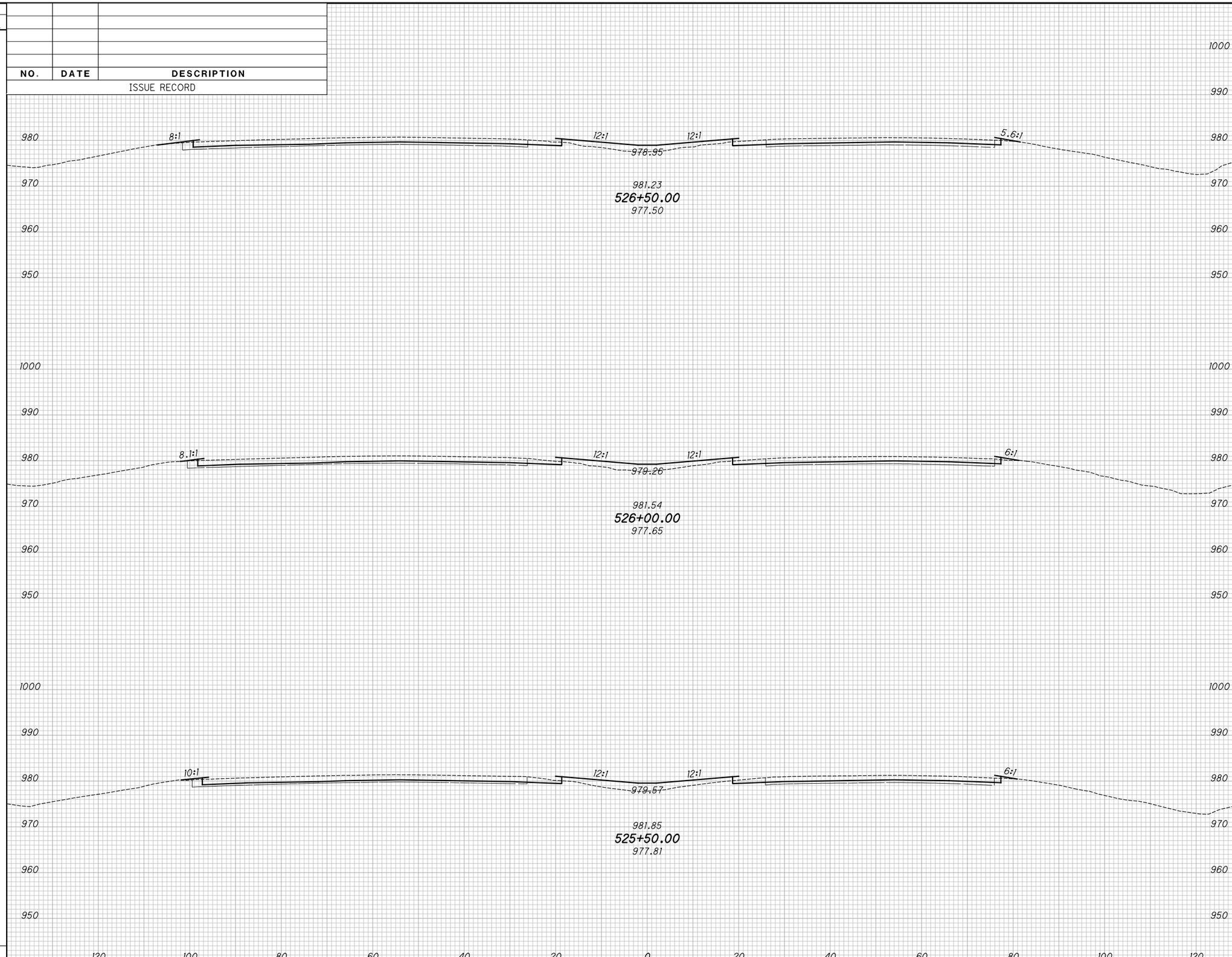
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_41 3/20/2019 9:43:38 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 525+50.00 TO STA. 526+50.00

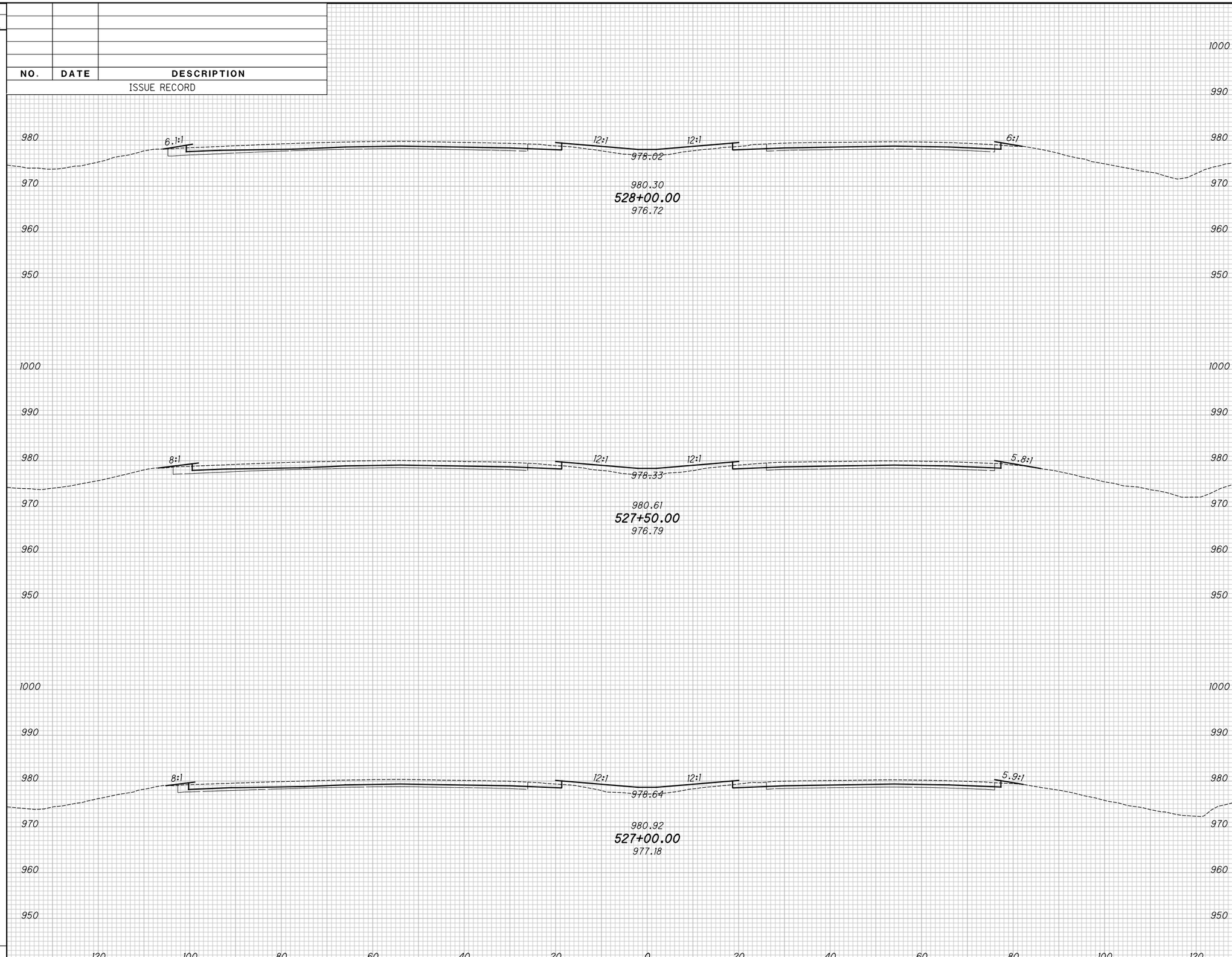
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_42 3/20/2019 9:43:41 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 527+00.00 TO STA. 528+00.00

MAD-70-8.62

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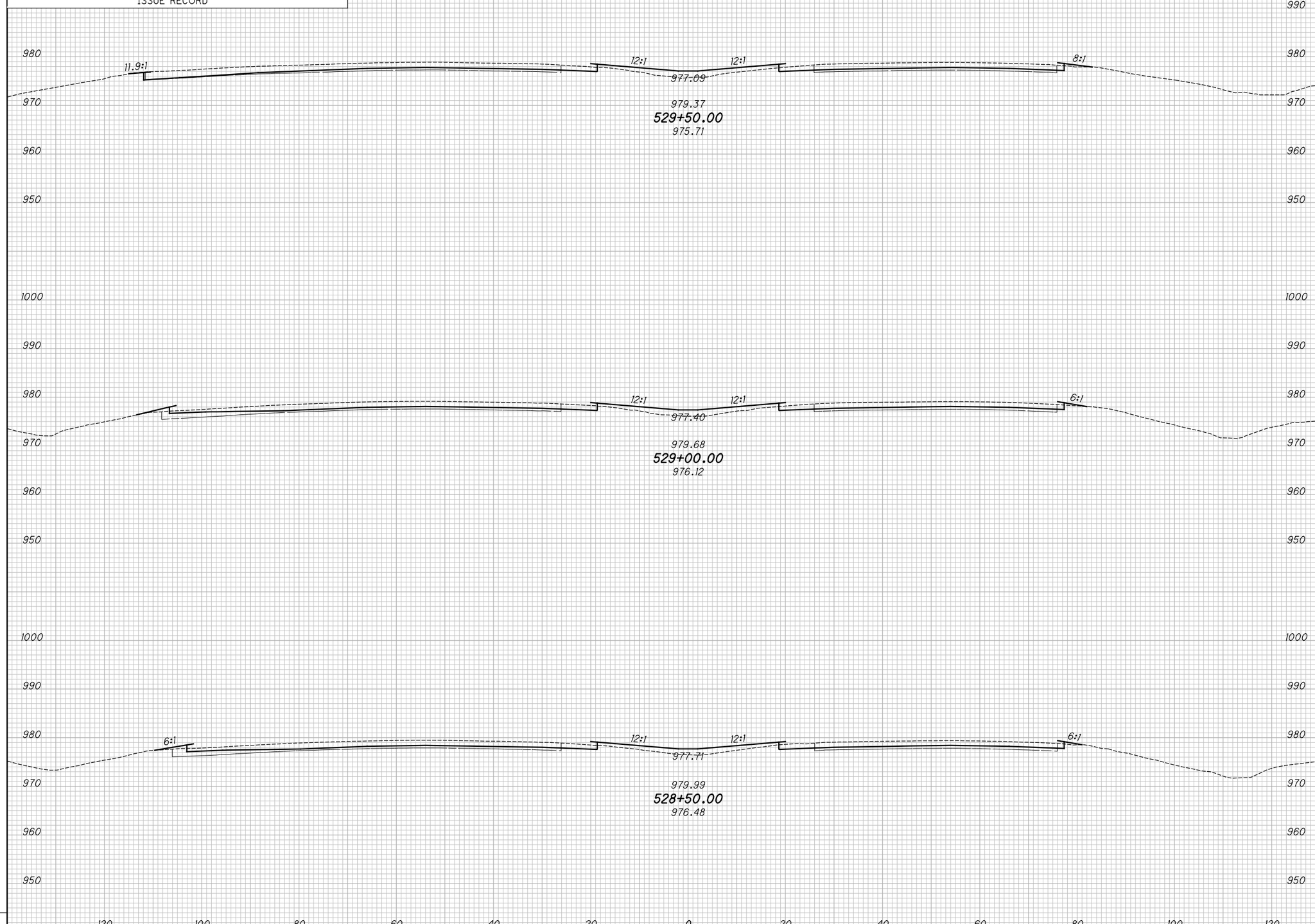
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 528+50.00 TO STA. 529+50.00

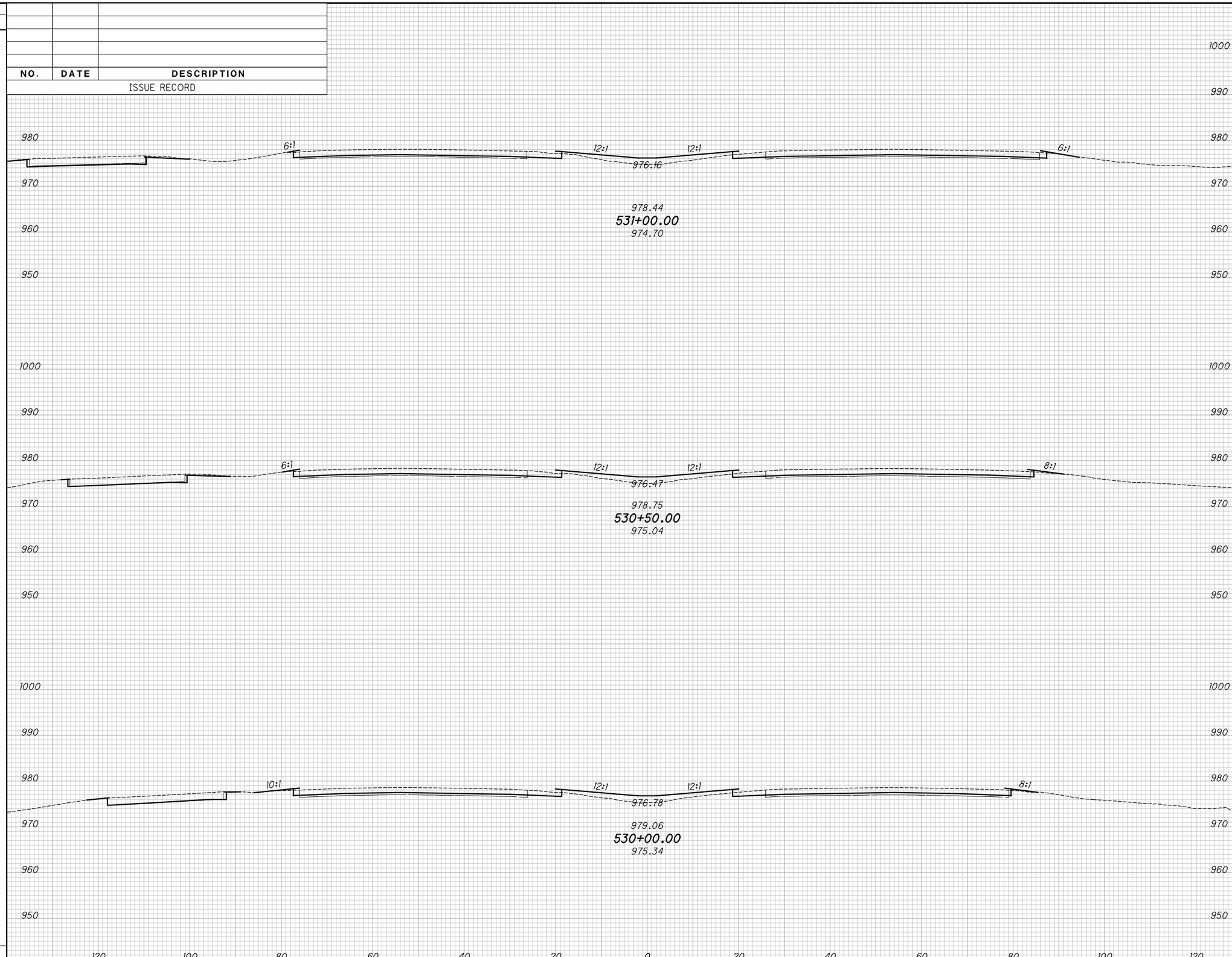
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_44 3/20/2019 9:43:45 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 530+00.00 TO STA. 531+00.00

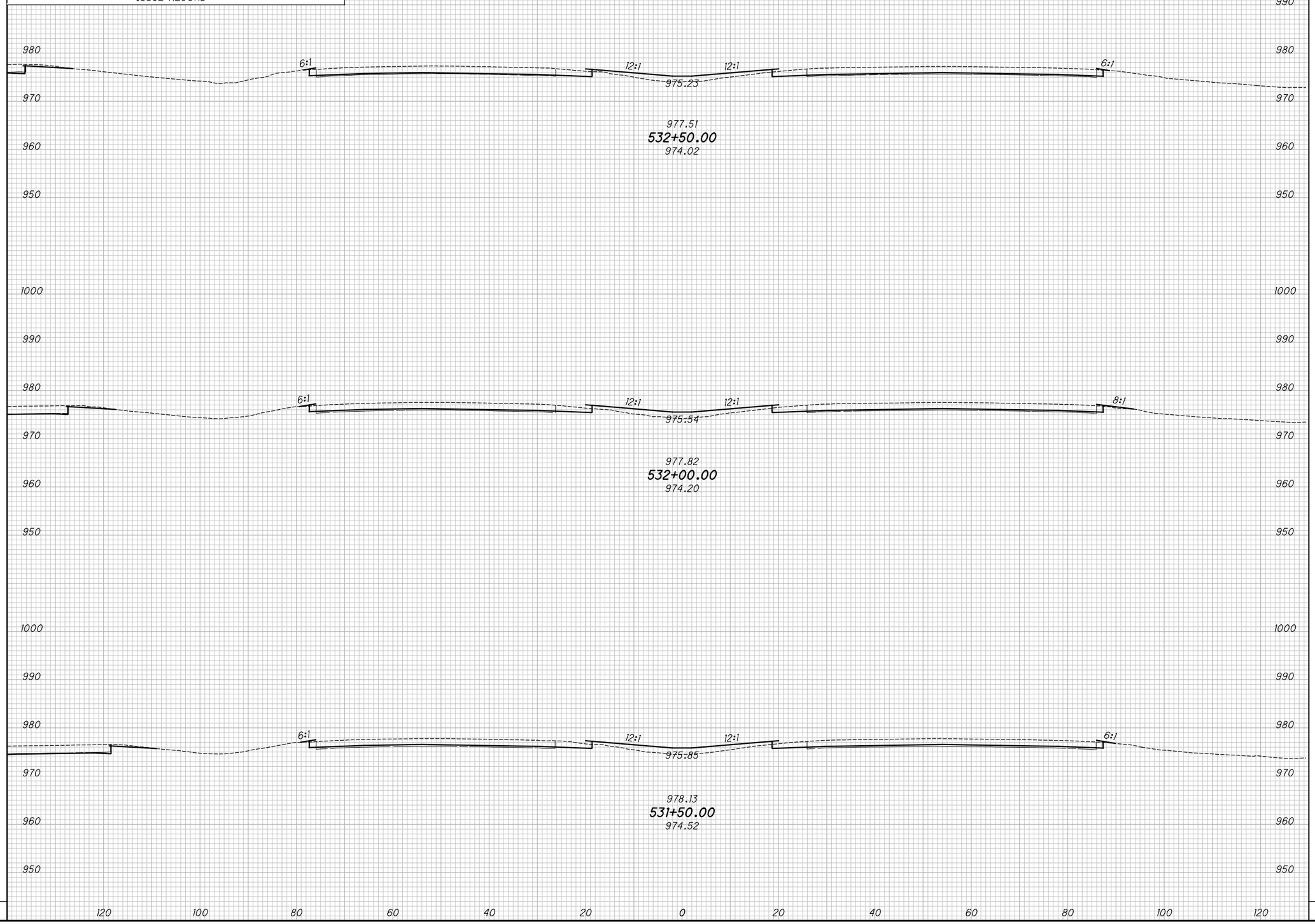
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_45 3/20/2019 9:43:47 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

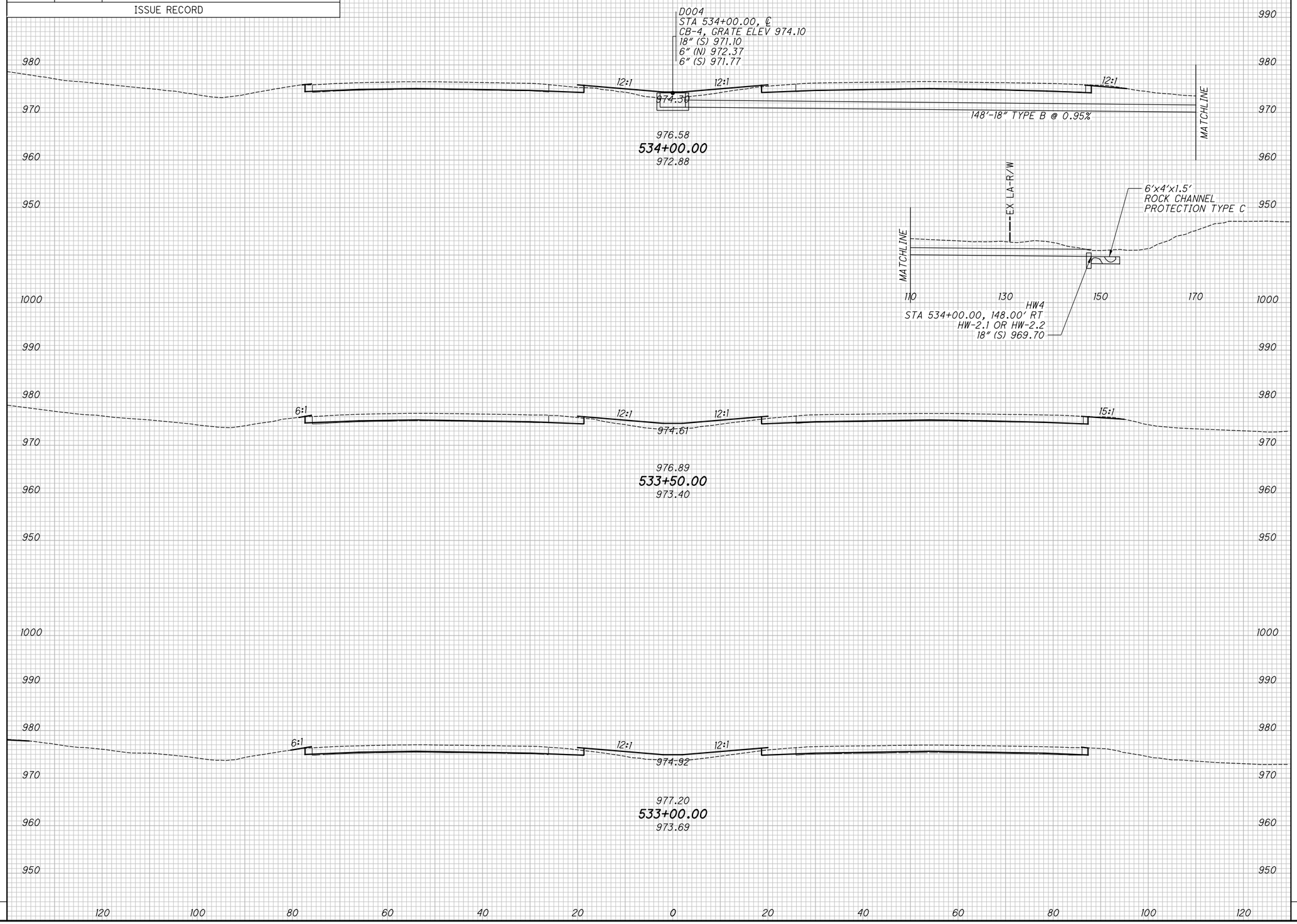
CROSS SECTIONS - IR 70
STA. 531+50.00 TO STA. 532+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_46 3/20/2019 9:43:49 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

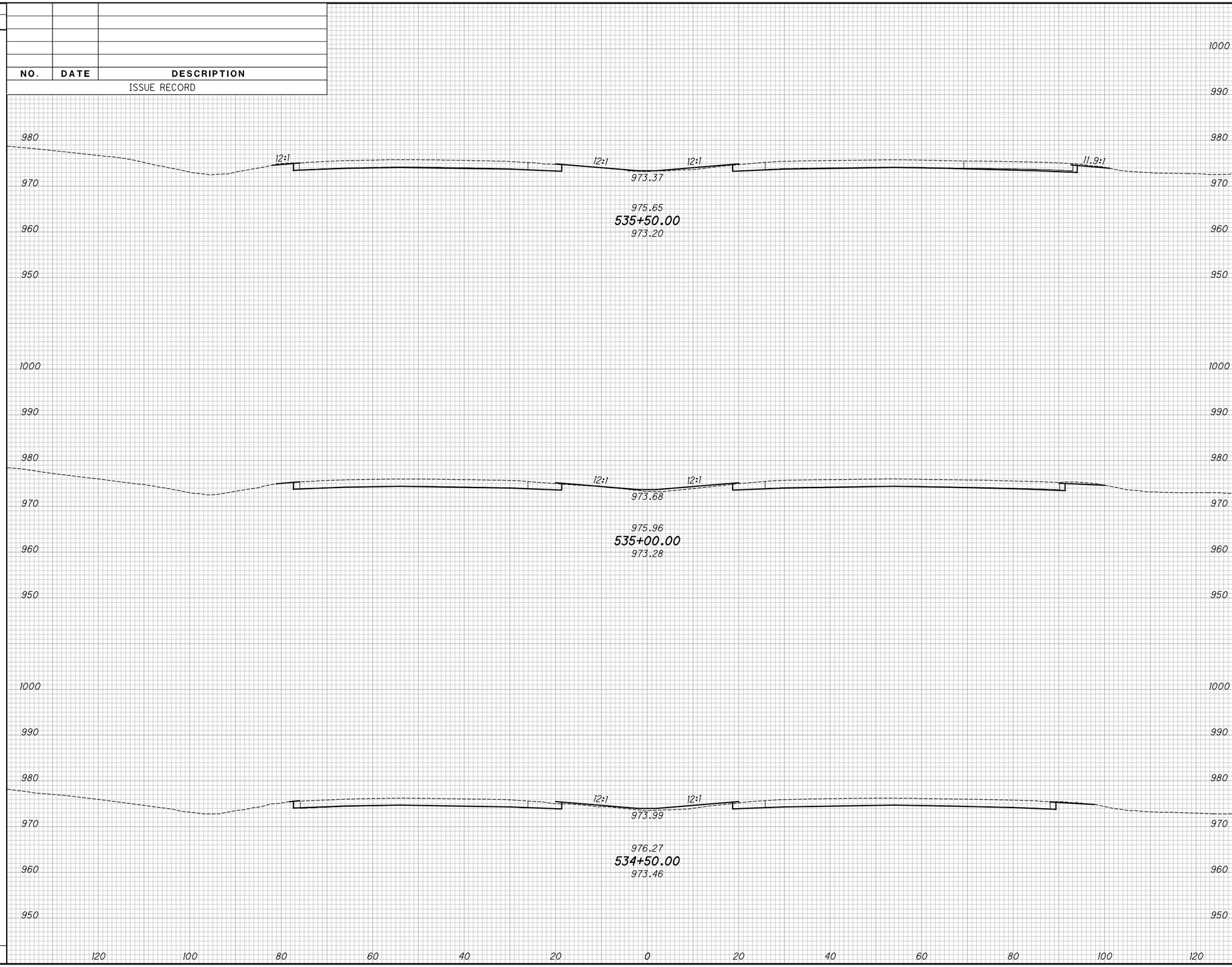
CROSS SECTIONS - IR 70
STA. 533+00.00 TO STA. 534+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_47 3/20/2019 9:43:51 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 534+50.00 TO STA. 535+50.00

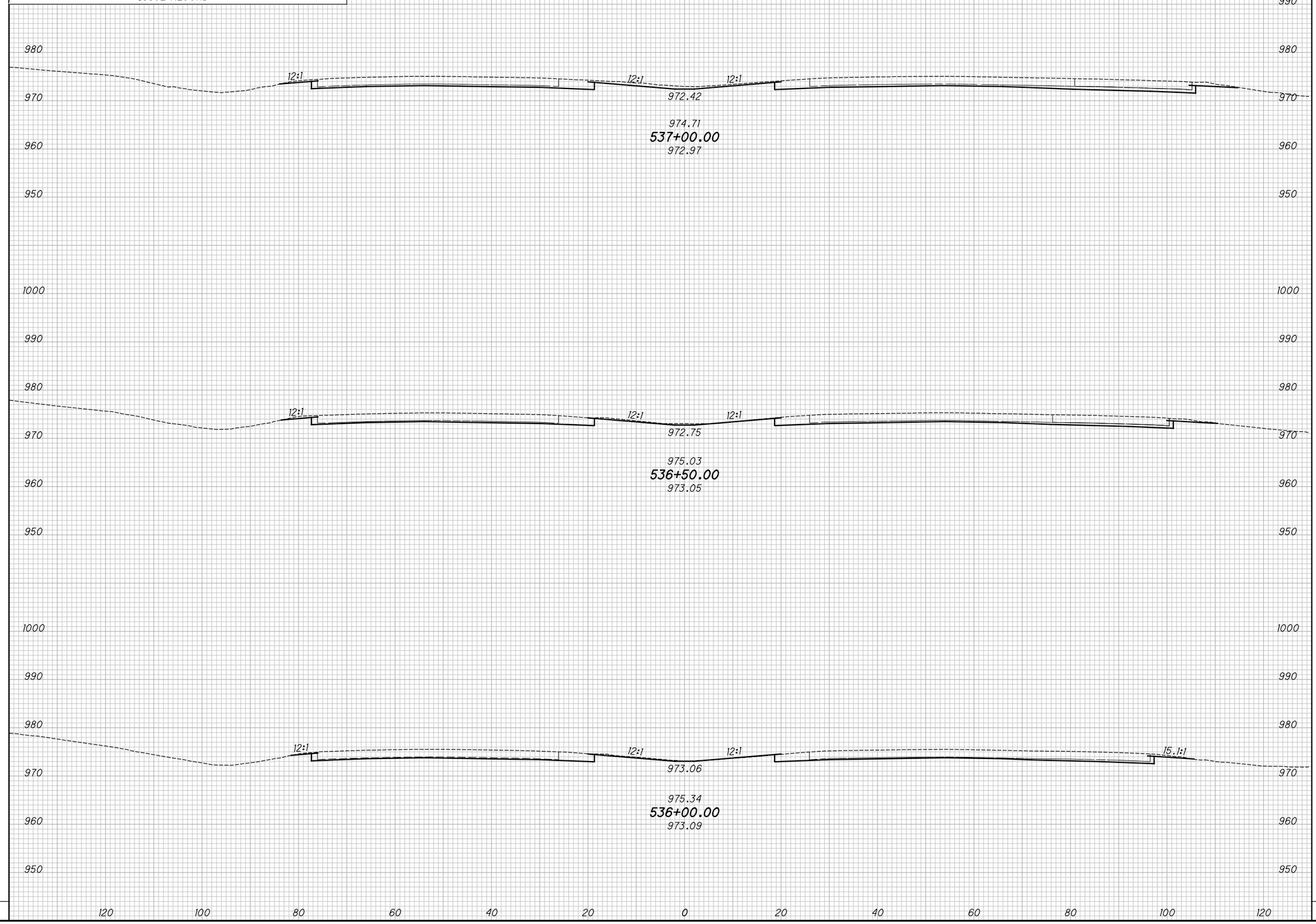
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_48 3/20/2019 9:43:53 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

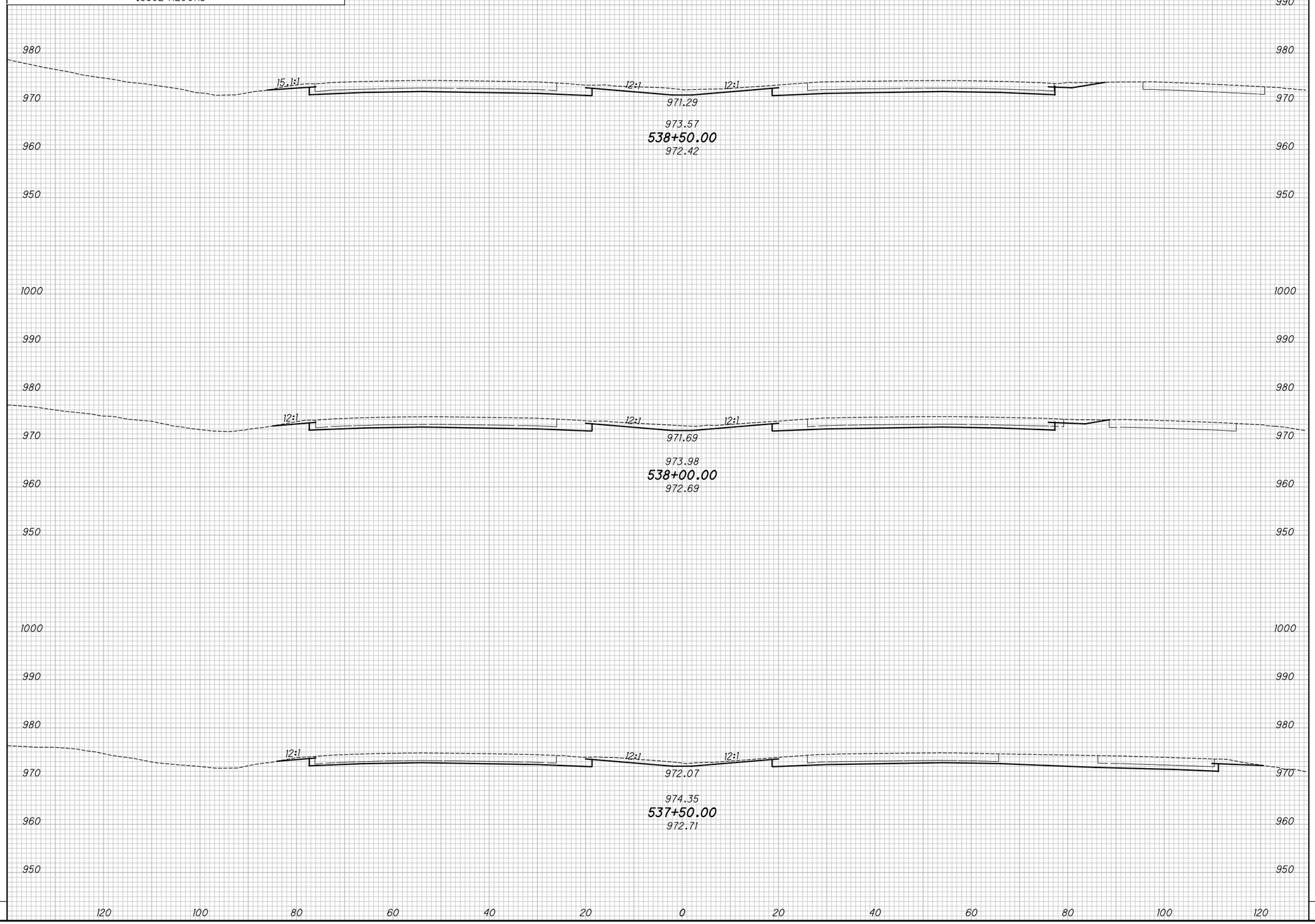
CROSS SECTIONS - IR 70
STA. 536+00.00 TO STA. 537+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_49 3/20/2019 9:43:55 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 537+50.00 TO STA. 538+50.00

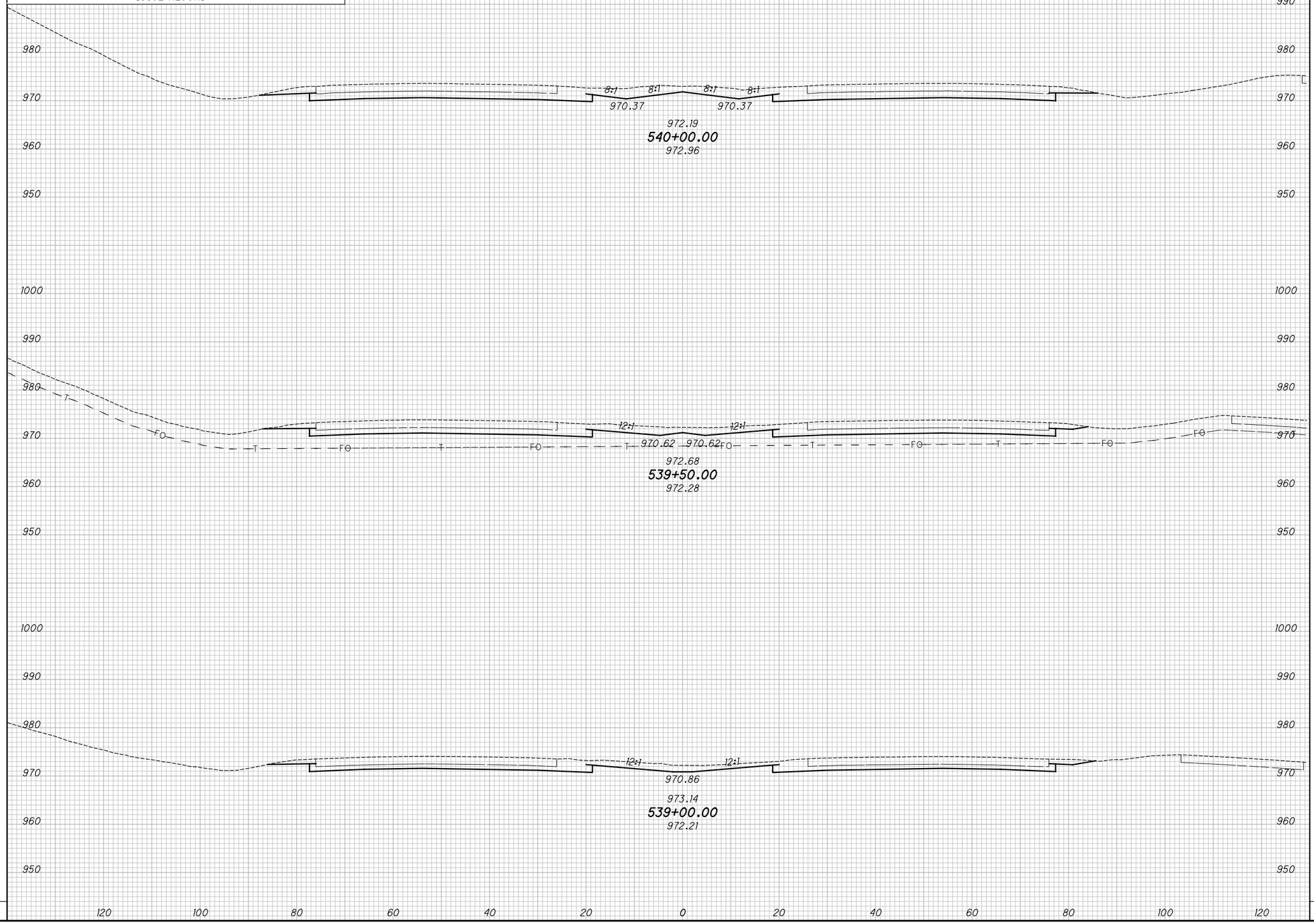
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_50 3/20/2019 9:43:57 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 539+00.00 TO STA. 540+00.00

MAD-70-8.62

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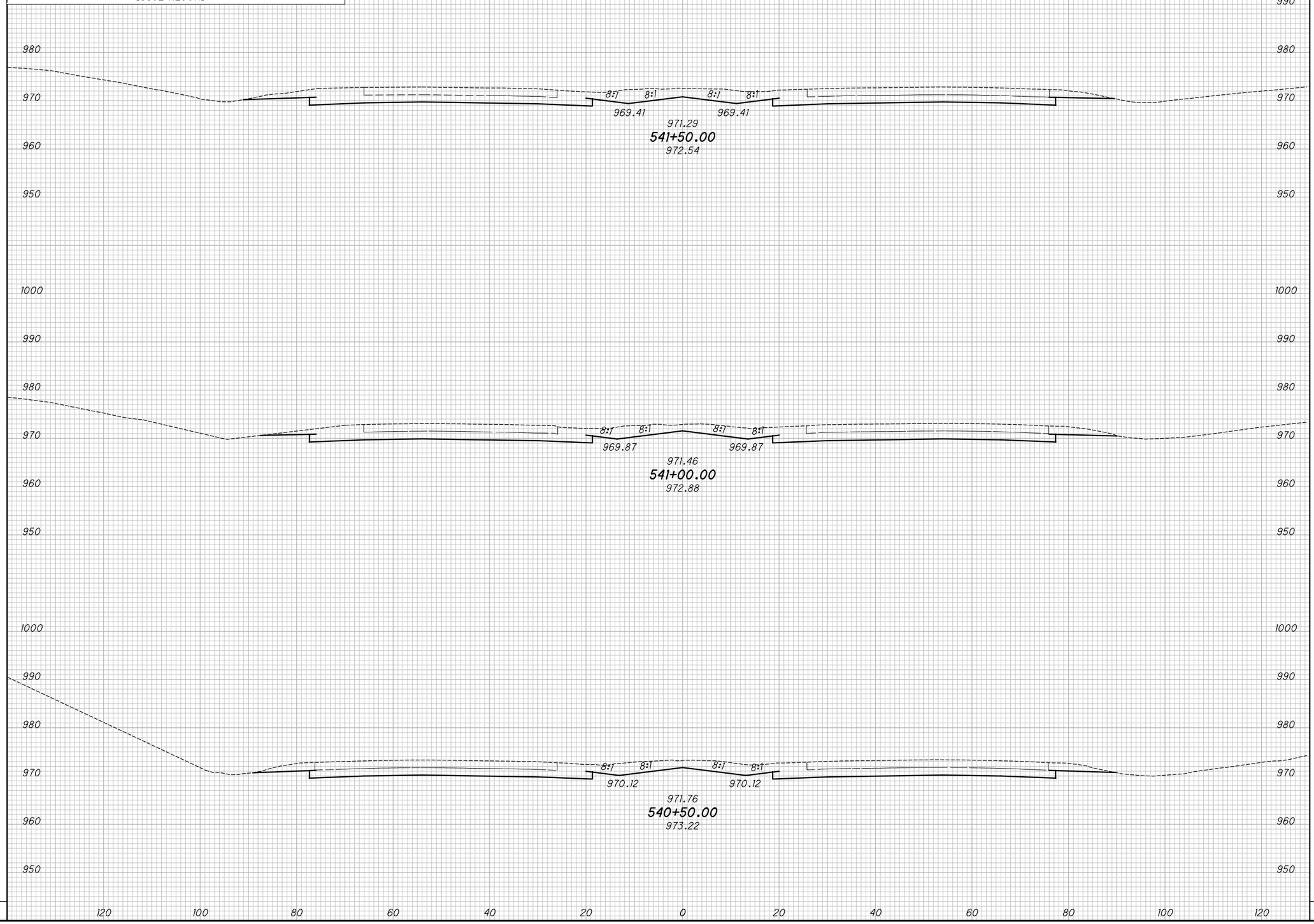
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 540+50.00 TO STA. 541+50.00

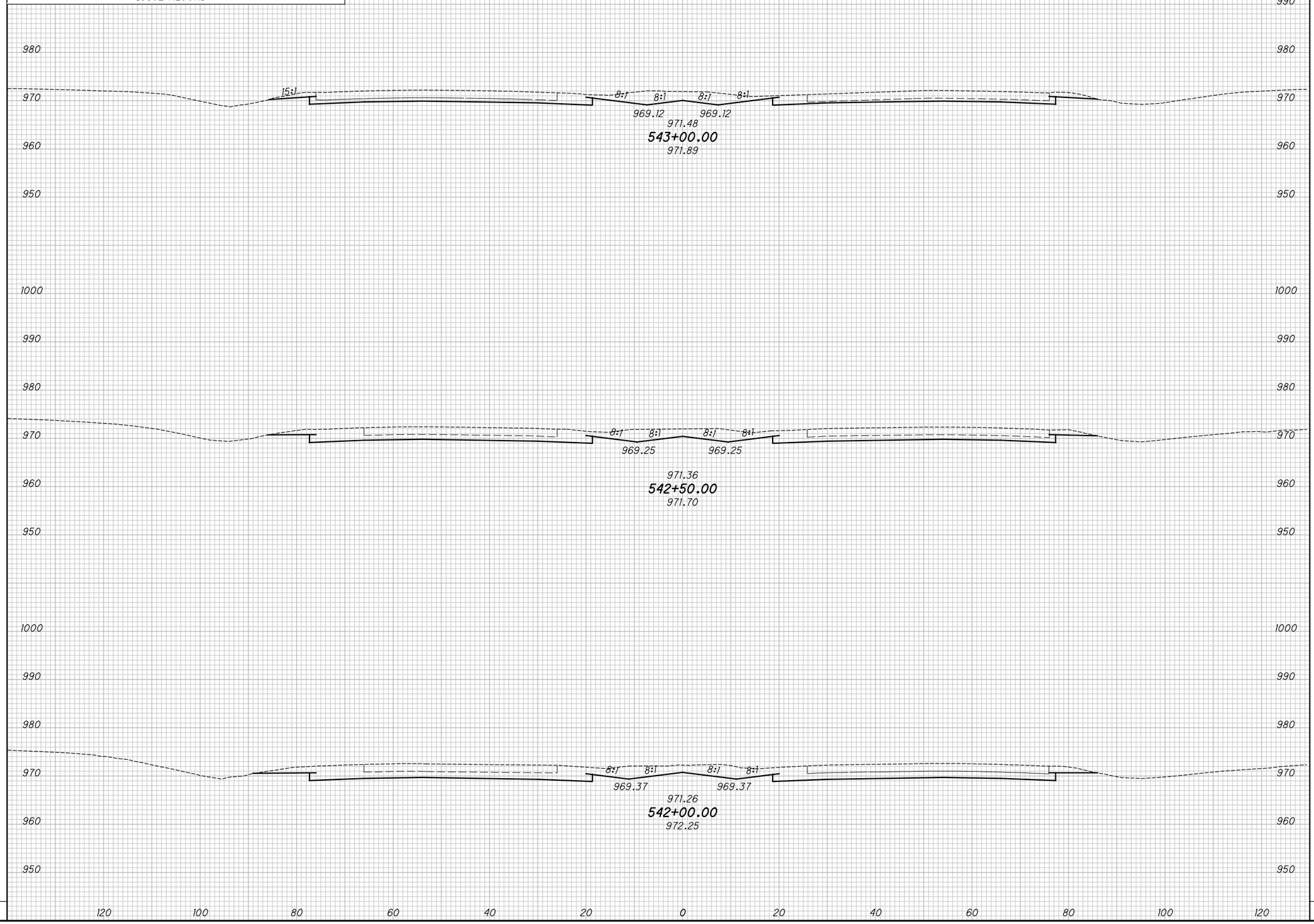
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_52 3/20/2019 9:44:14 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 542+00.00 TO STA. 543+00.00

MAD-70-8.62

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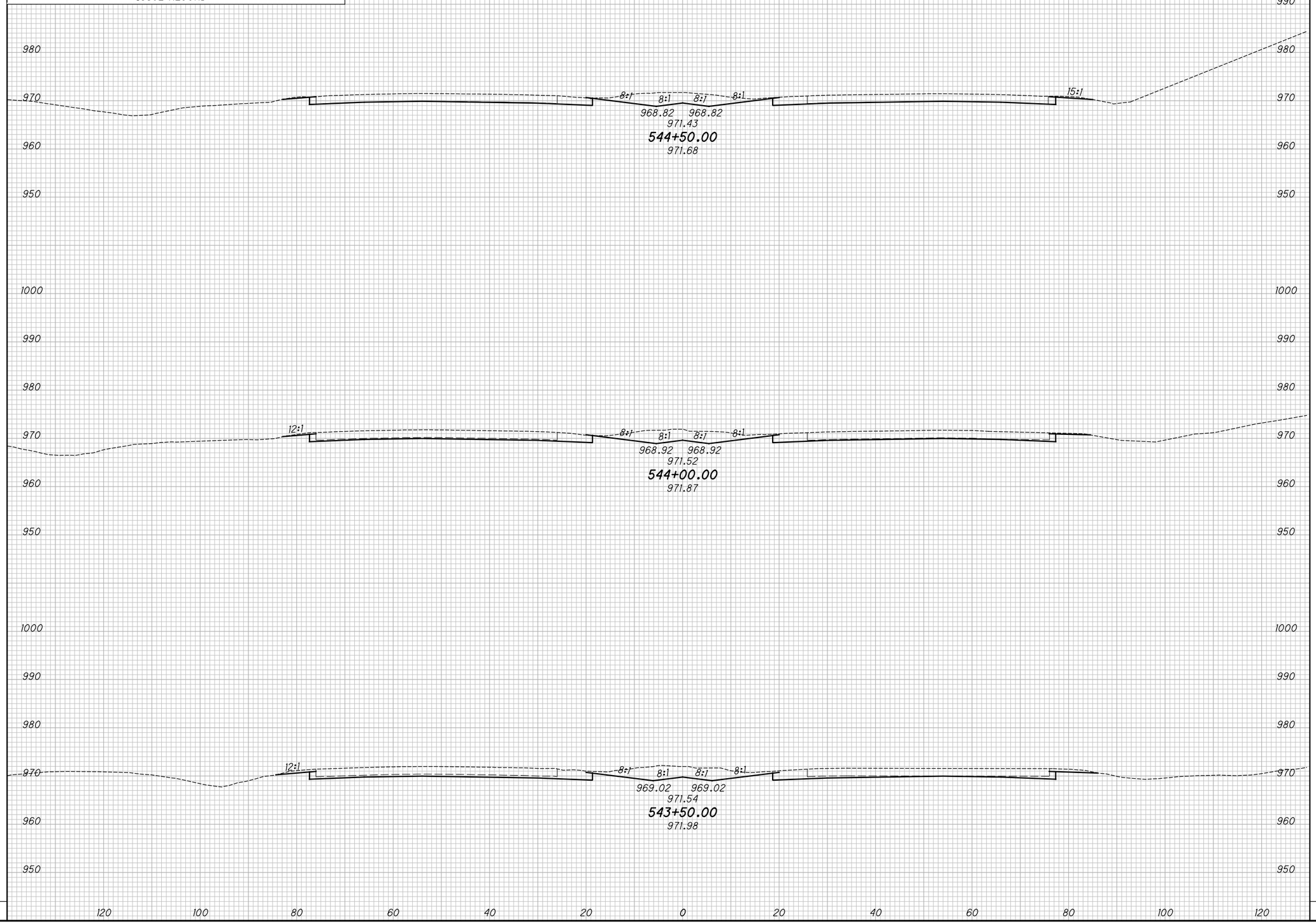
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 543+50.00 TO STA. 544+50.00

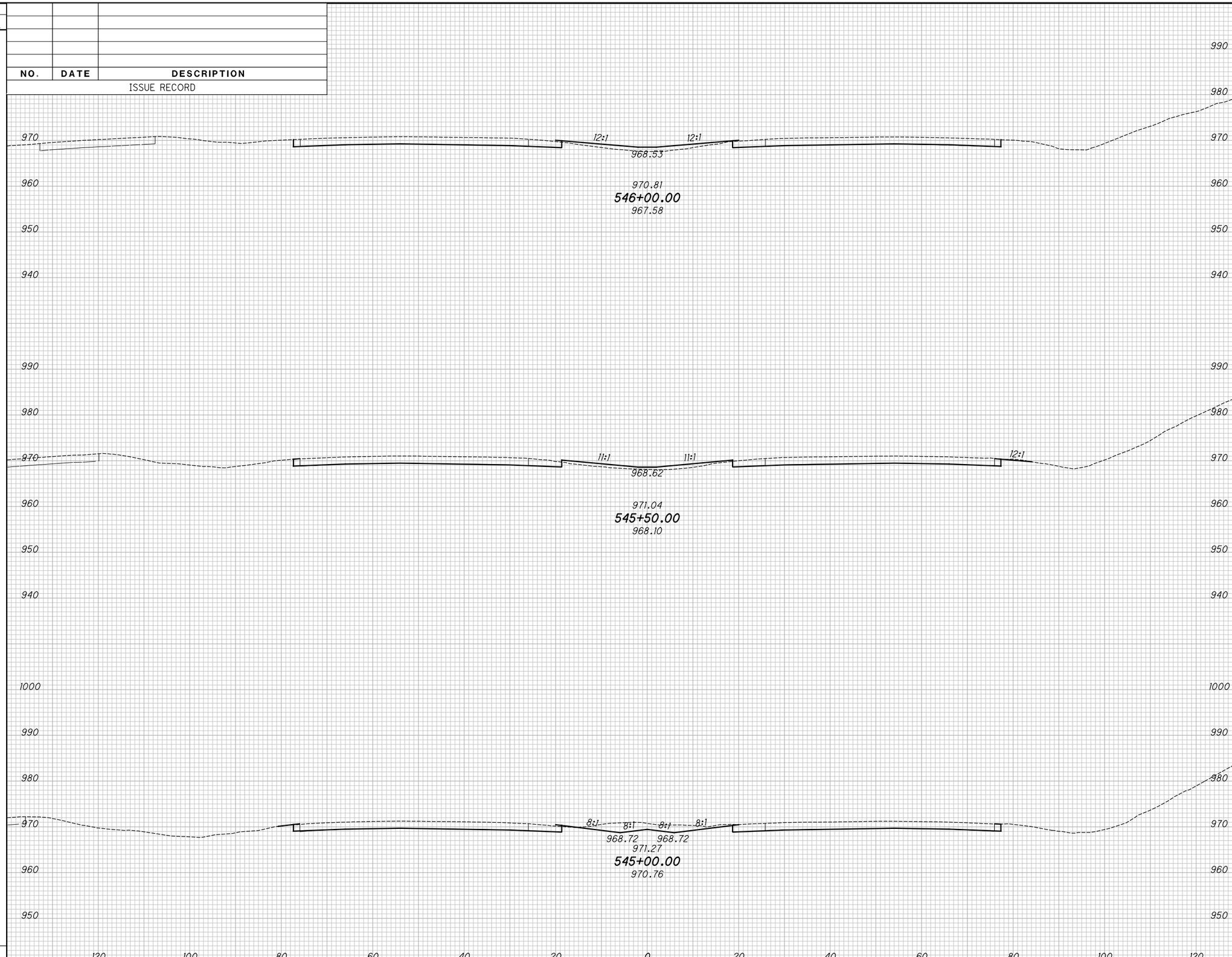
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_54 3/20/2019 9:44:18 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

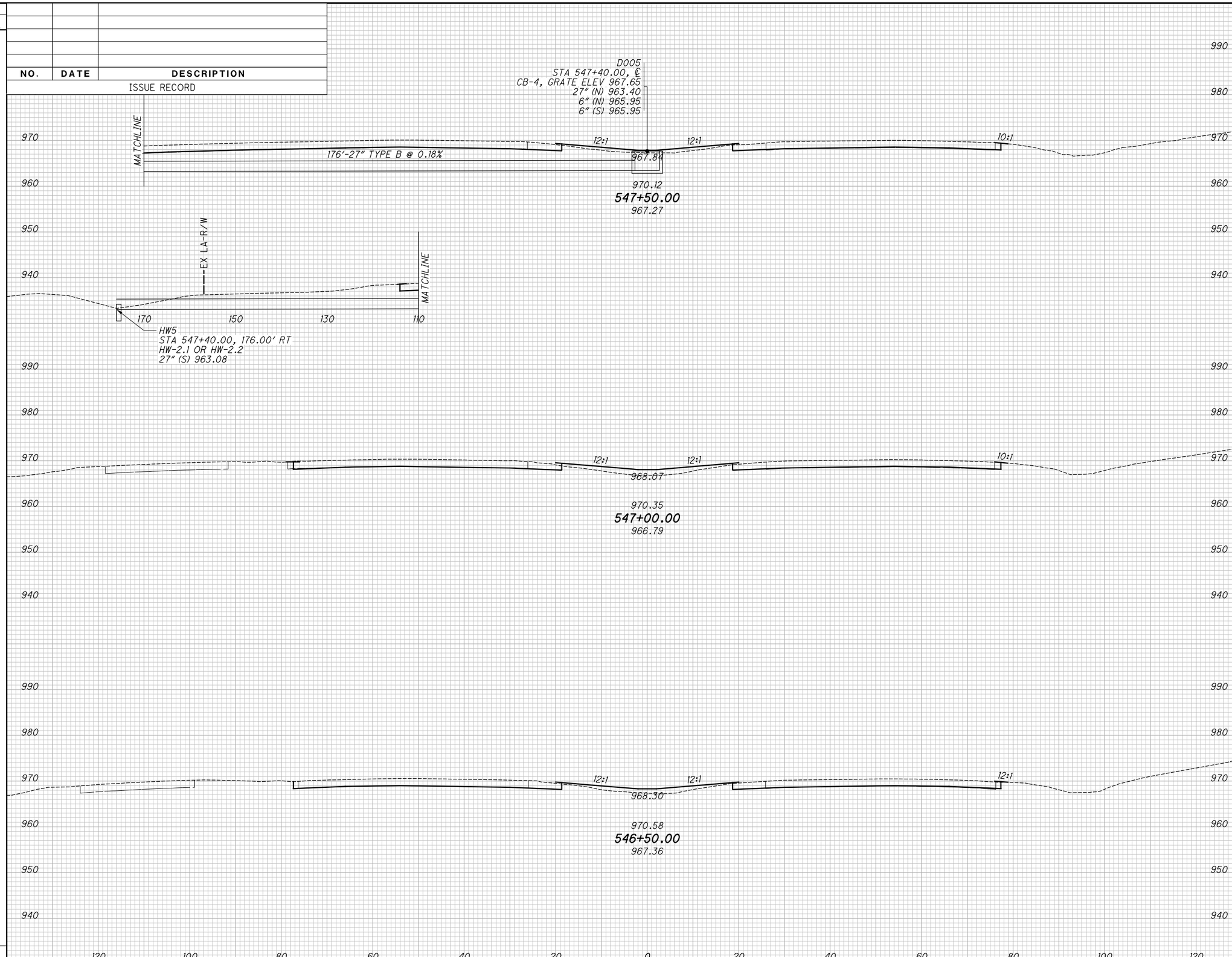
STA. 545+00.00 TO STA. 546+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_55 3/20/2019 9:44:20 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

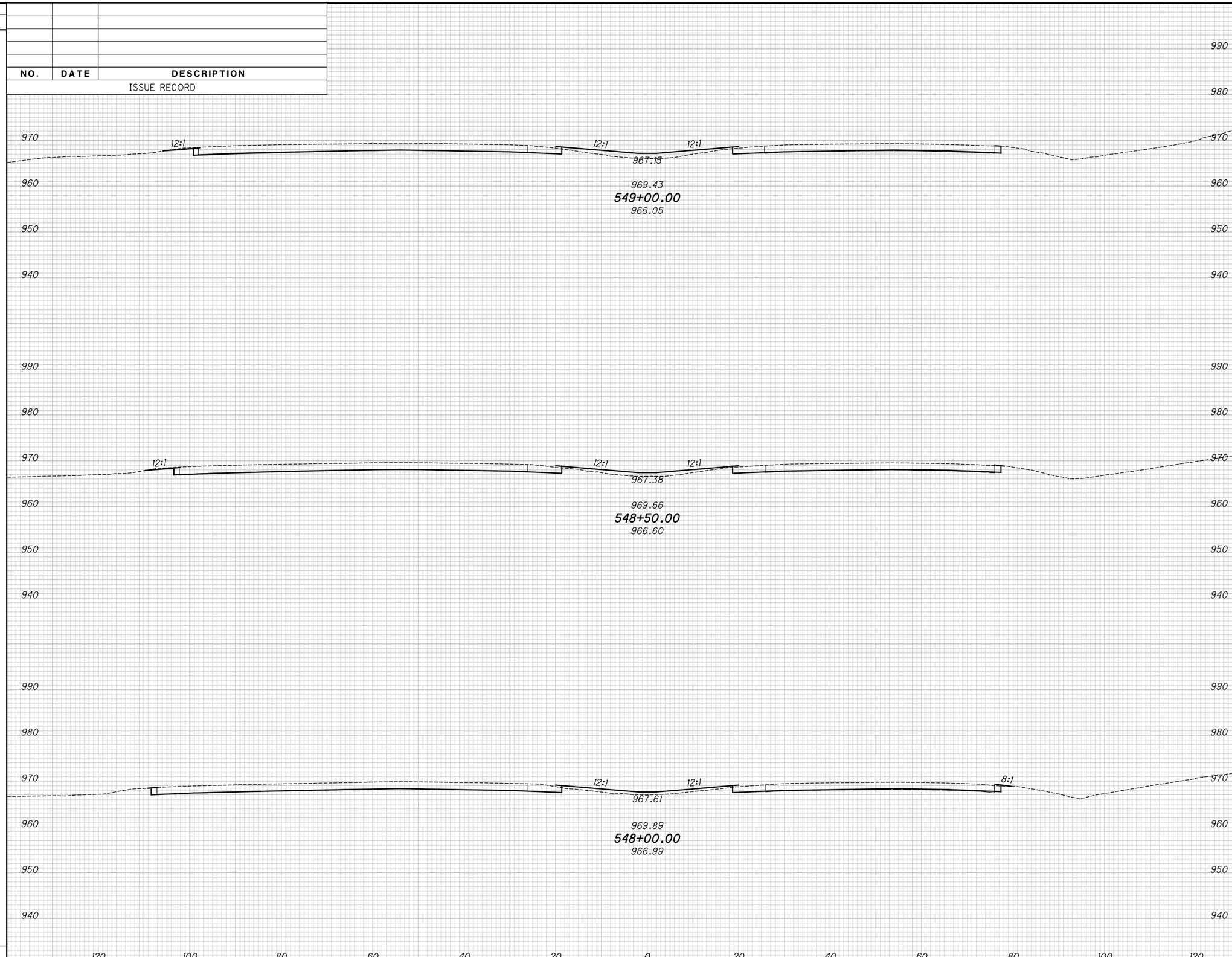
CROSS SECTIONS - IR 70
STA. 546+50.00 TO STA. 547+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_56 3/20/2019 9:44:22 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

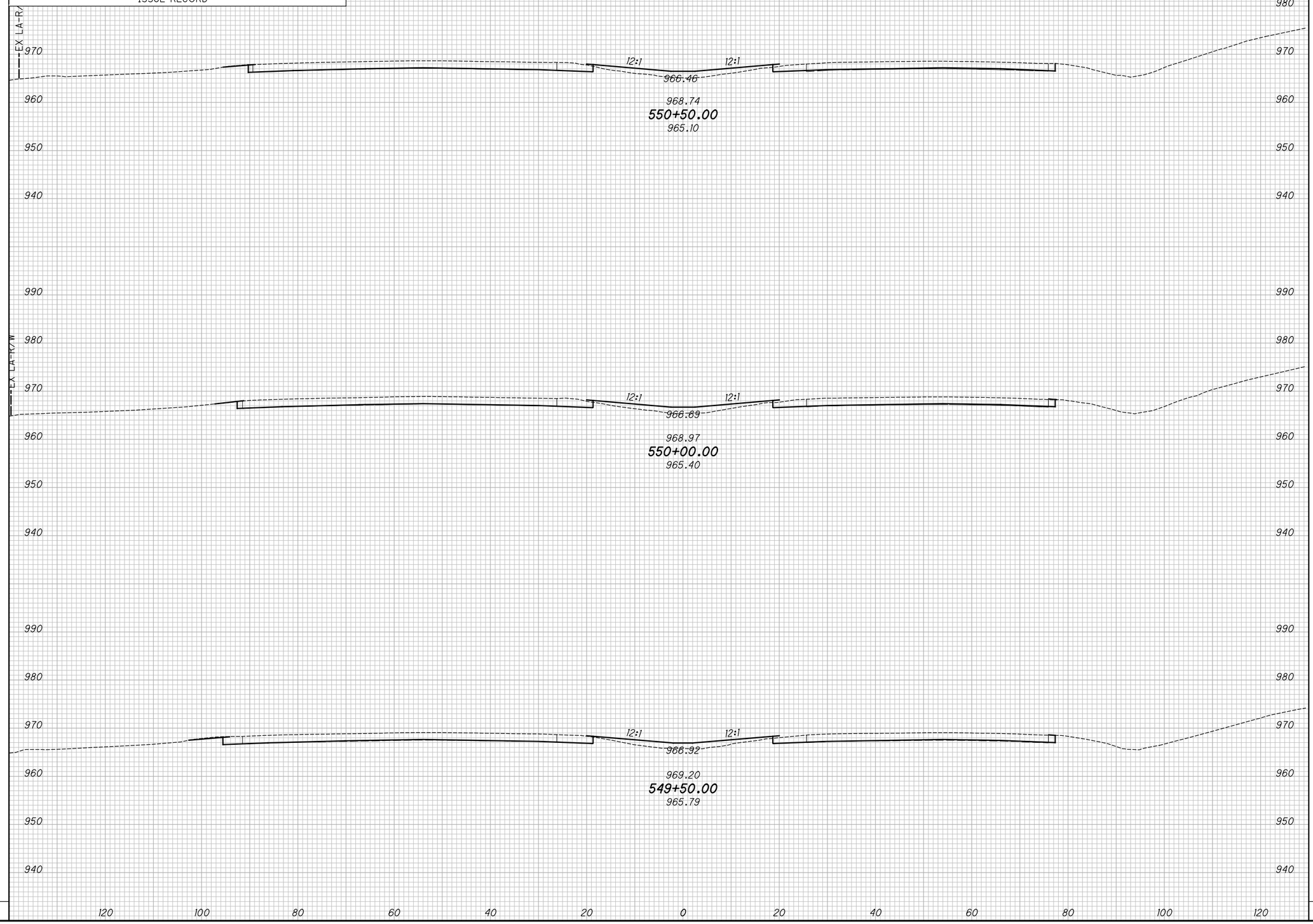
CROSS SECTIONS - IR 70
STA. 548+00.00 TO STA. 549+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_57 3/20/2019 9:44:24 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

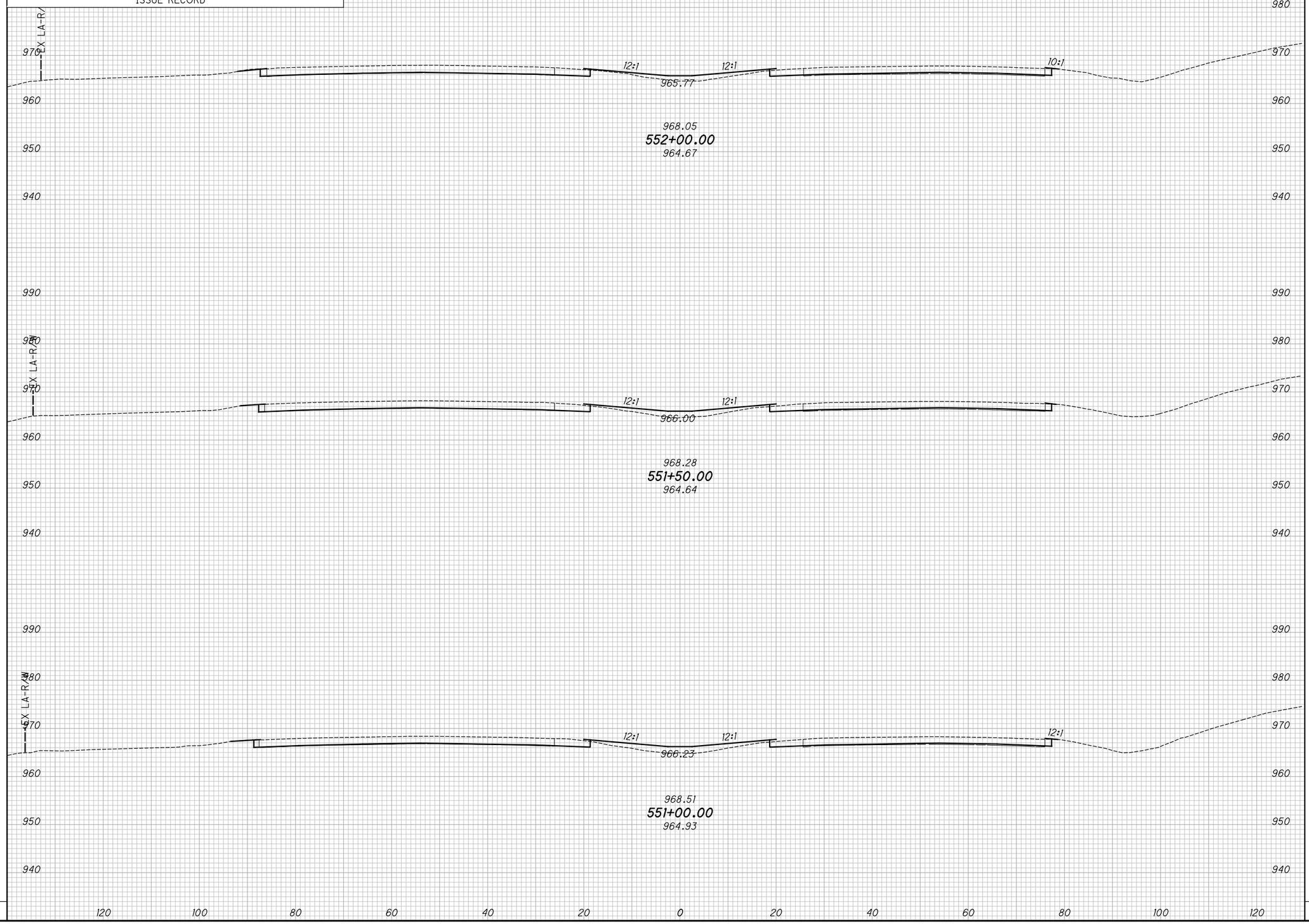
CROSS SECTIONS - IR 70
STA. 549+50.00 TO STA. 550+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_58 3/20/2019 9:44:26 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

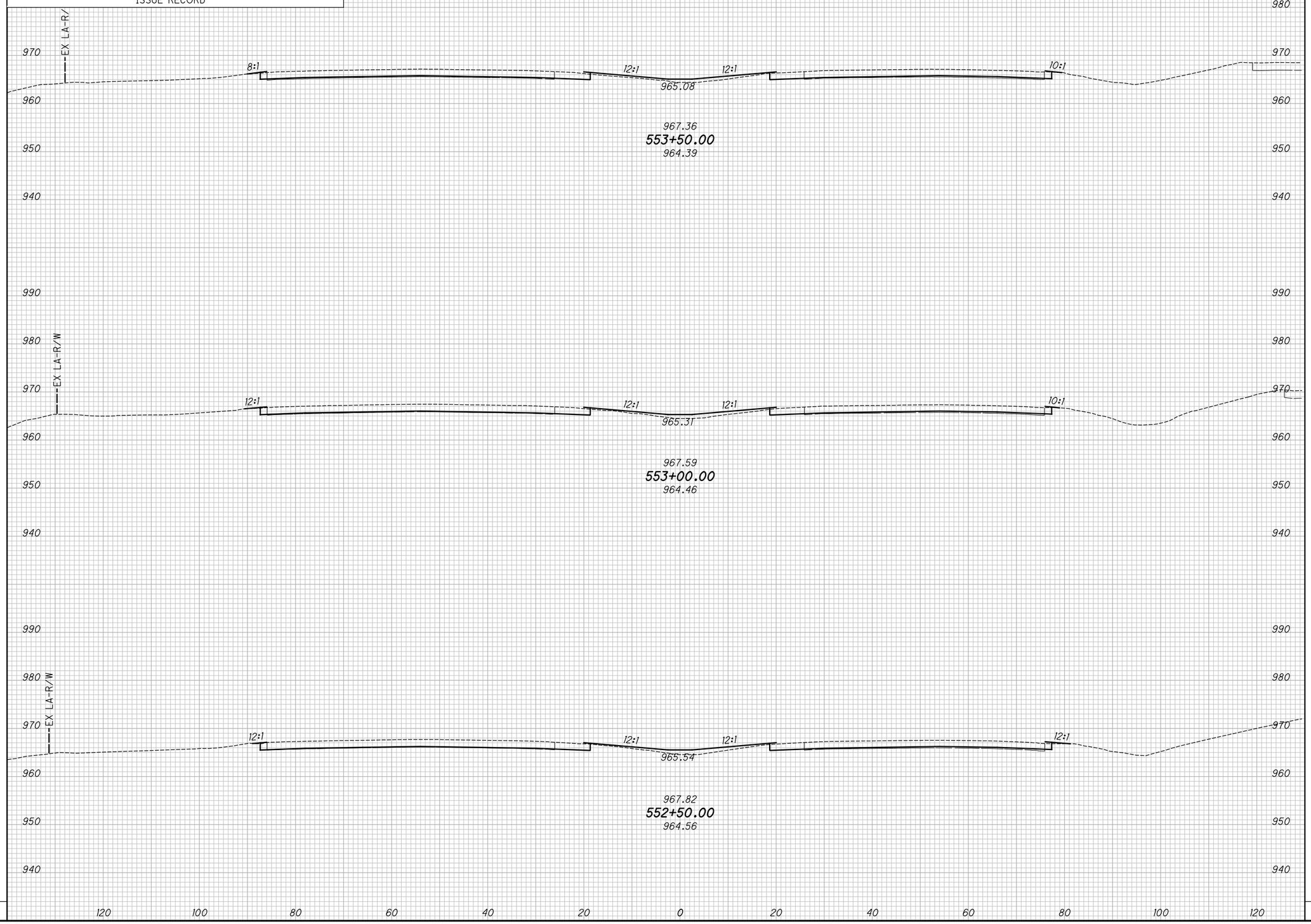
CROSS SECTIONS - IR 70
STA. 551+00.00 TO STA. 552+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_59 3/20/2019 9:44:28 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

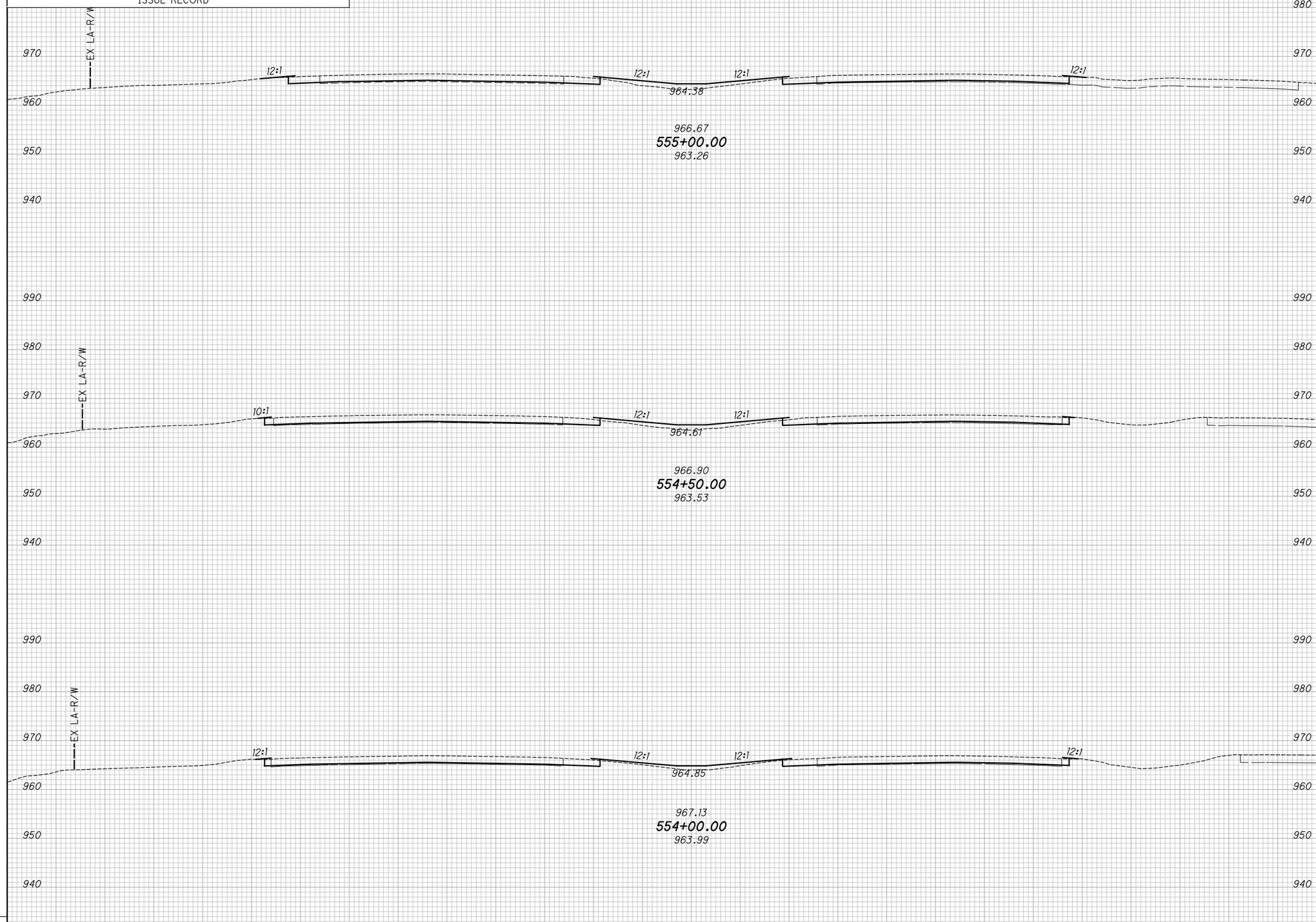
CROSS SECTIONS - IR 70
STA. 552+50.00 TO STA. 553+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_60 3/20/2019 9:44:30 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

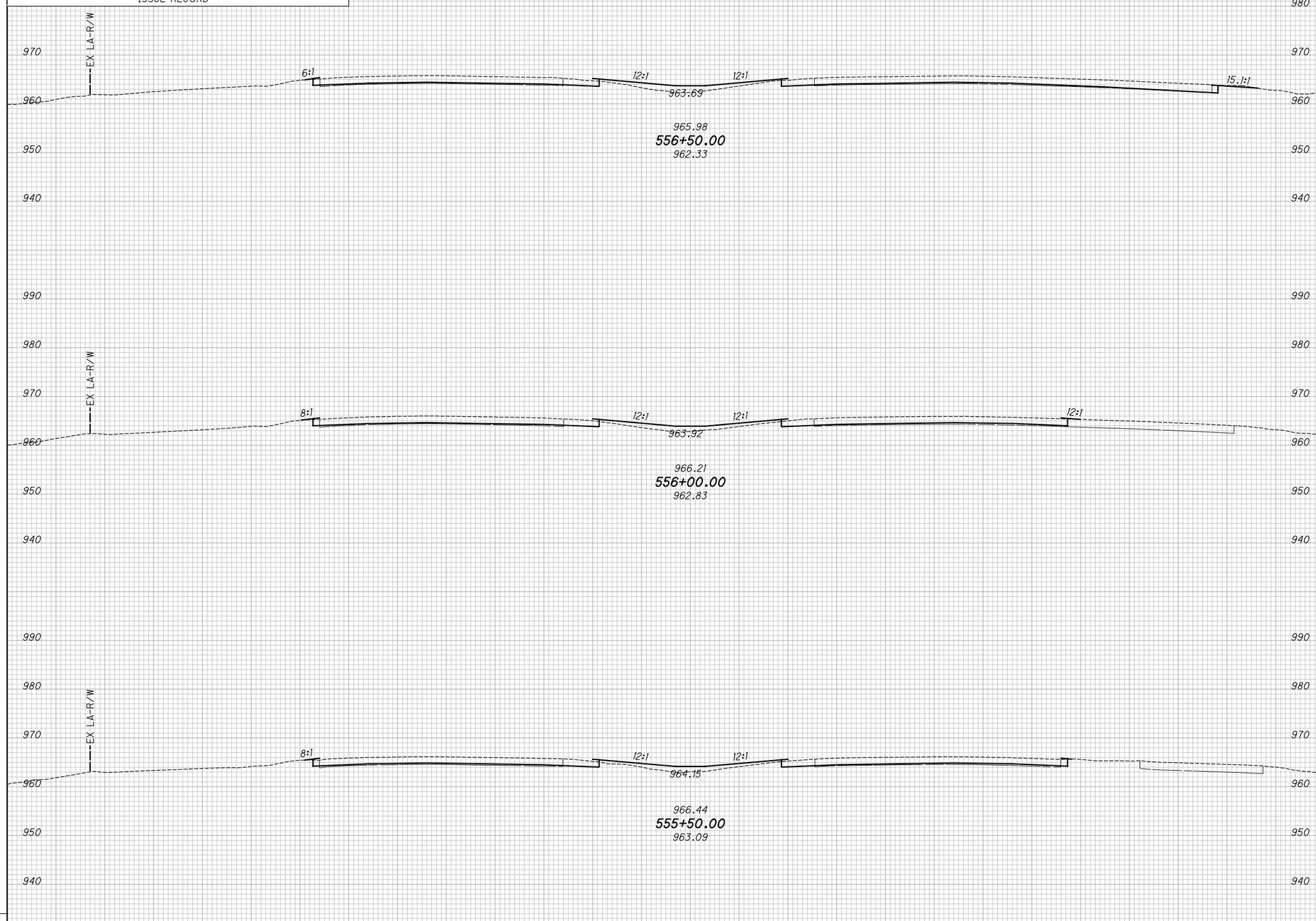
CROSS SECTIONS - IR 70
STA. 554+00.00 TO STA. 555+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name.61 3/20/2019 9:44:32 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 555+50.00 TO STA. 556+50.00

MAD-70-8.62

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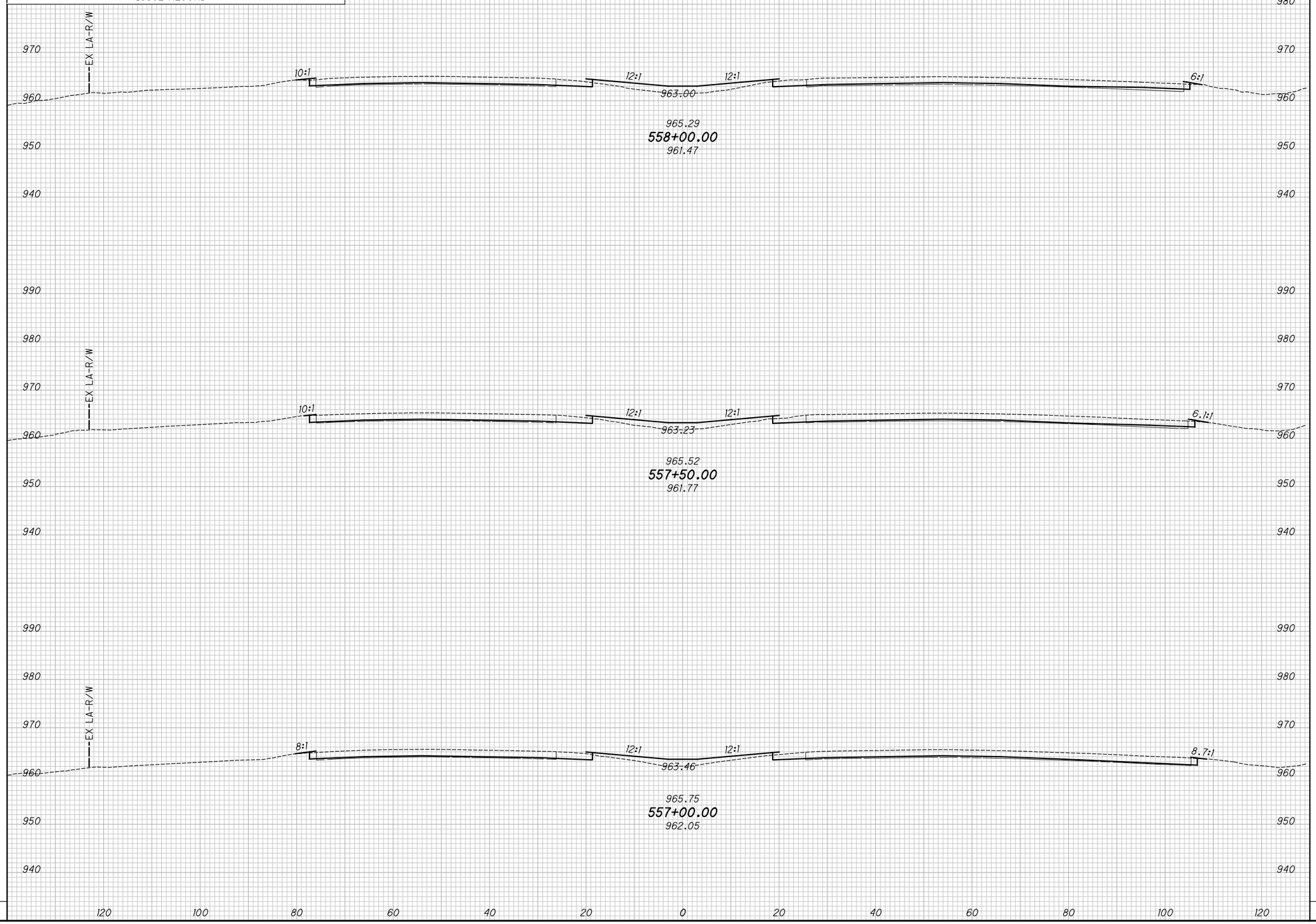
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 557+00.00 TO STA. 558+00.00

MAD-70-8.62

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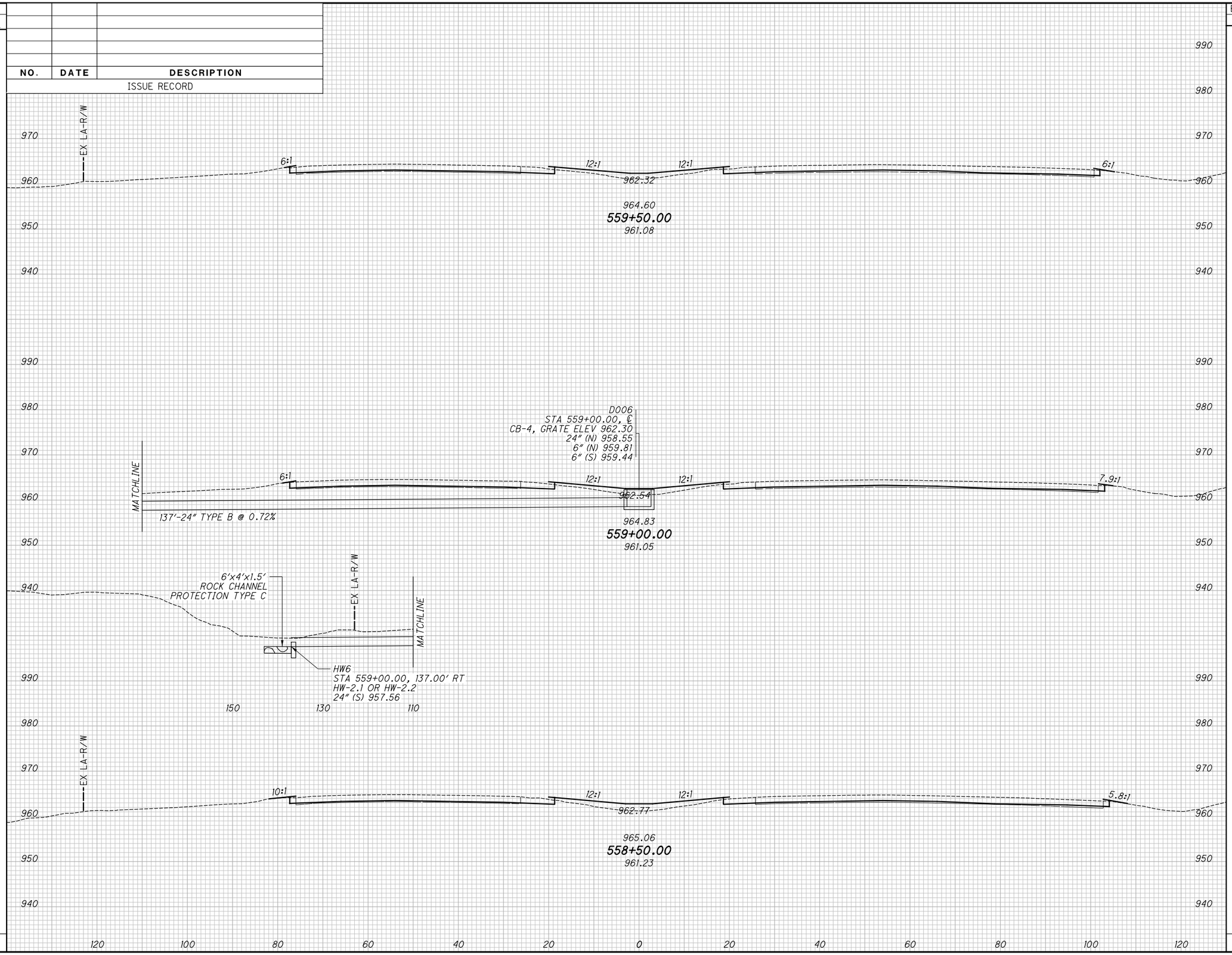
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 558+50.00 TO STA. 559+50.00

MAD-70-8.62

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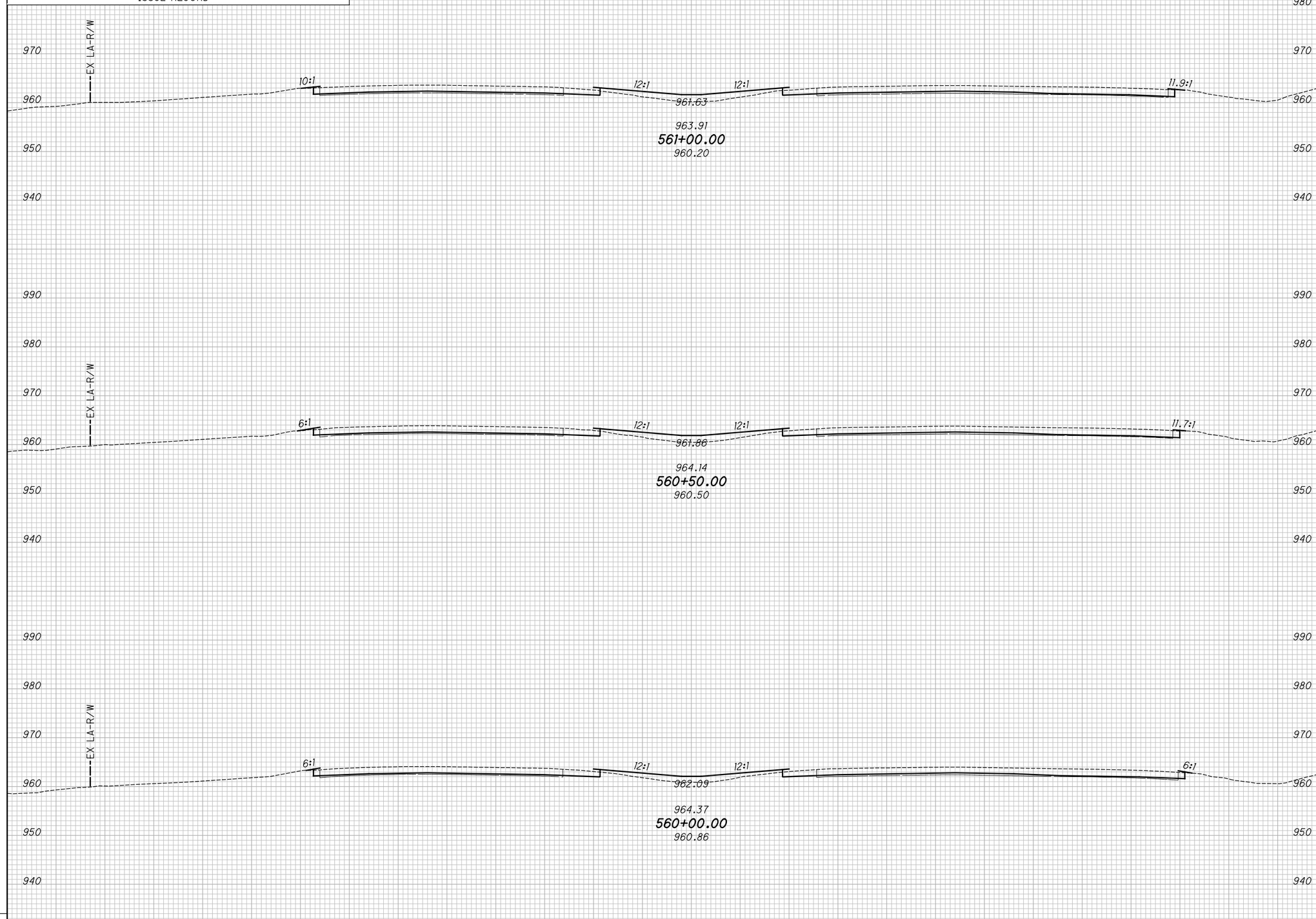
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 560+00.00 TO STA. 561+00.00

MAD-70-8.62

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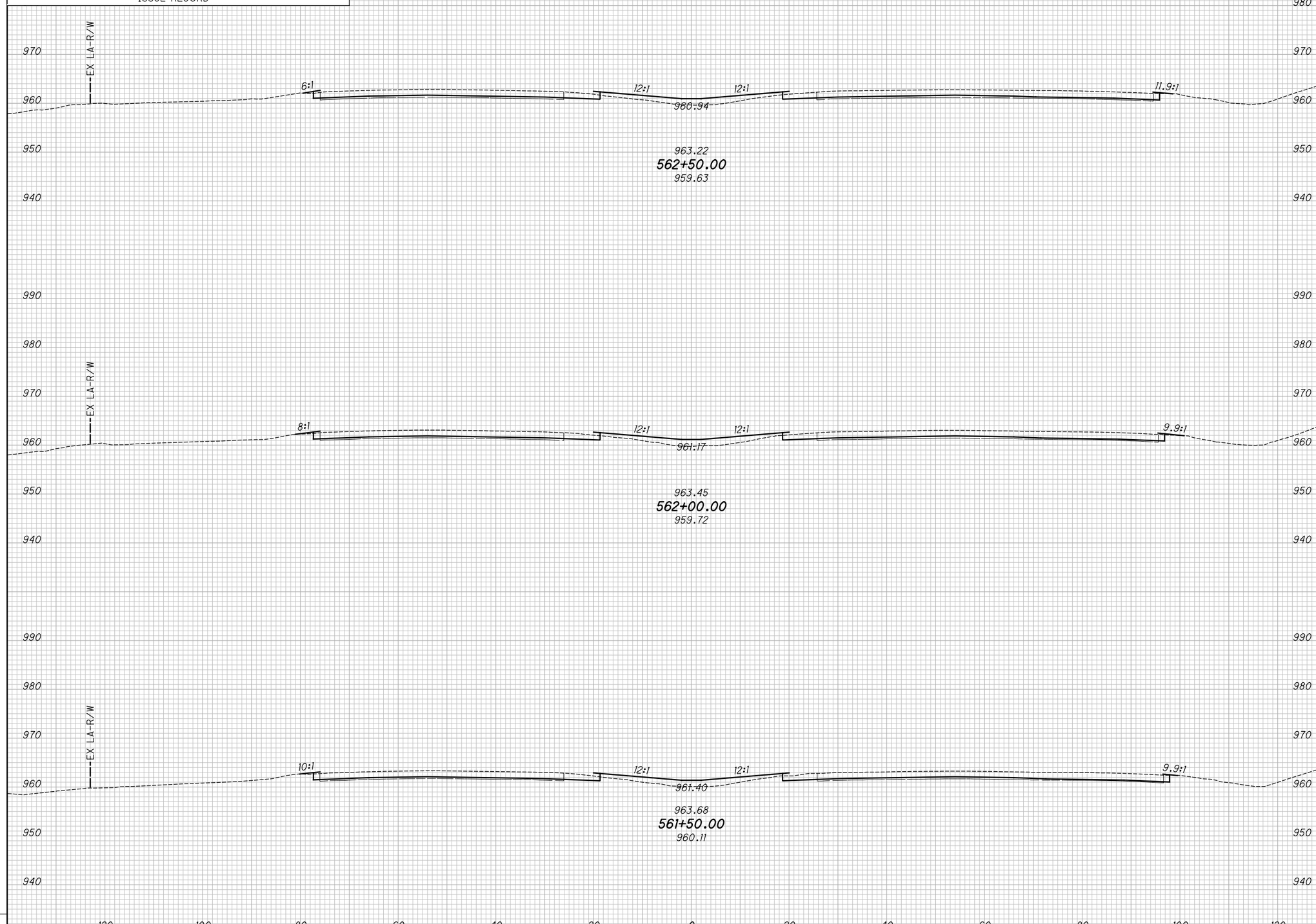
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

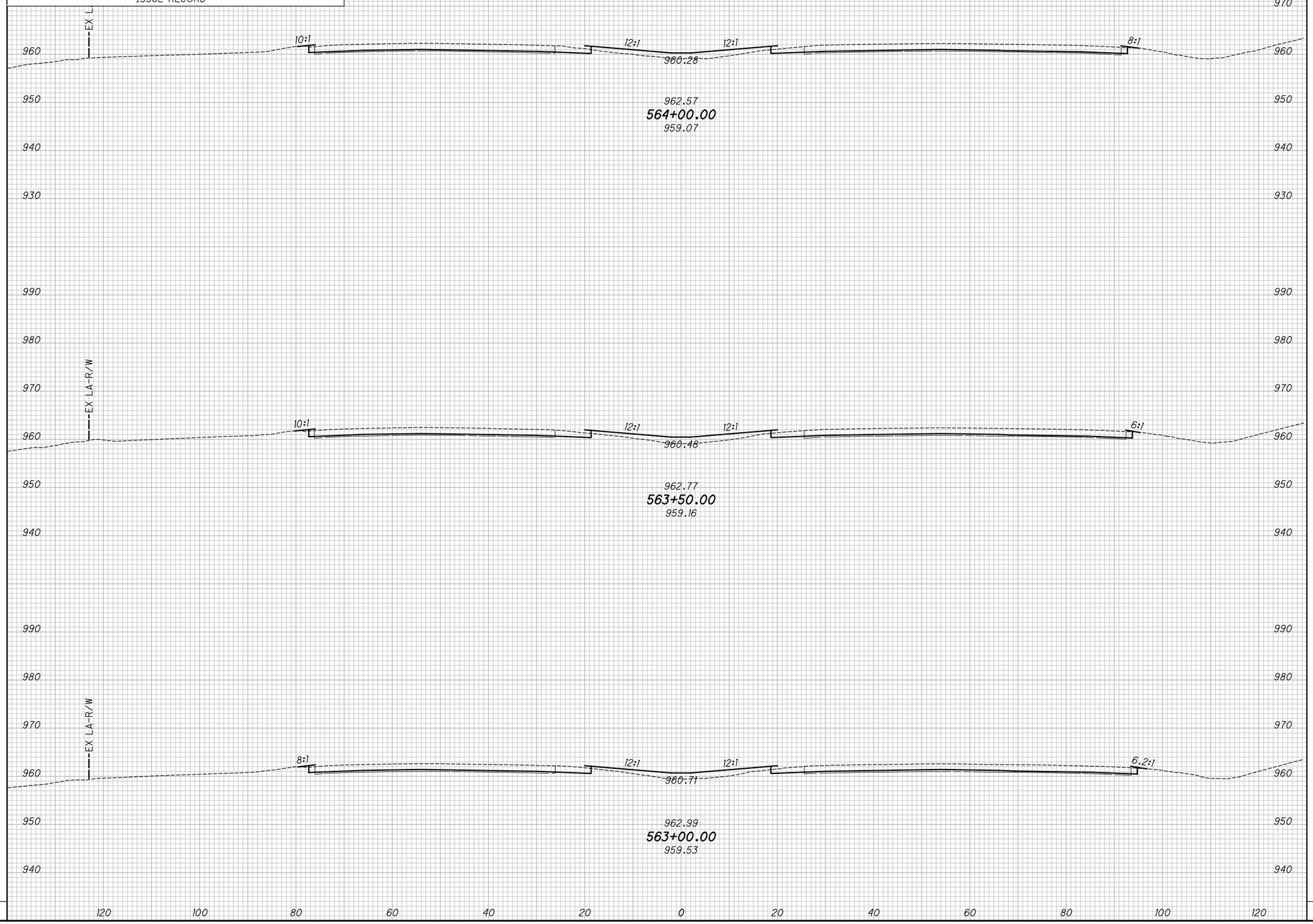
STA. 561+50.00 TO STA. 562+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_66 3/20/2019 9:44:42 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 563+00.00 TO STA. 564+00.00

MAD-70-8.62

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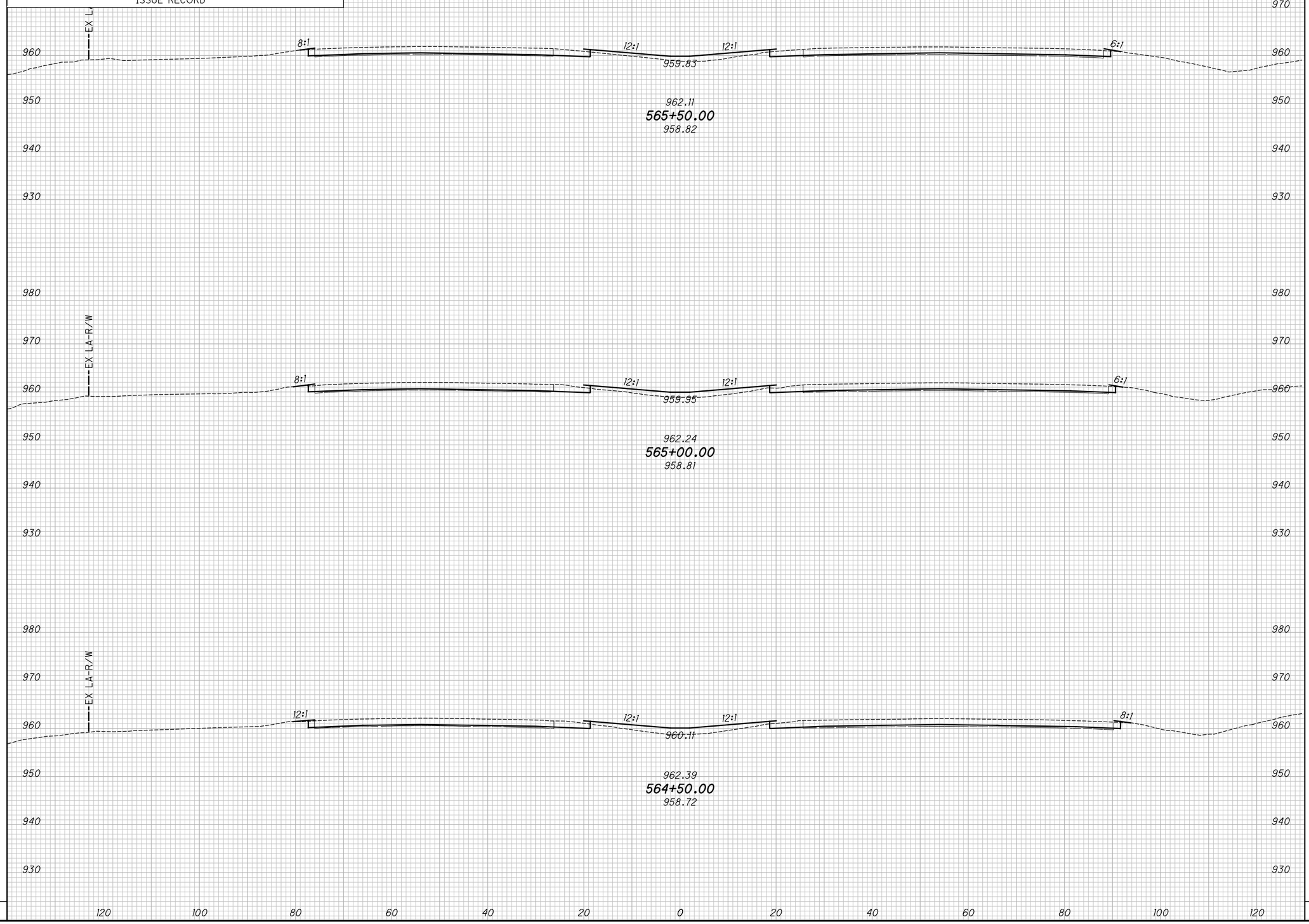
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 564+50.00 TO STA. 565+50.00

MAD-70-8.62

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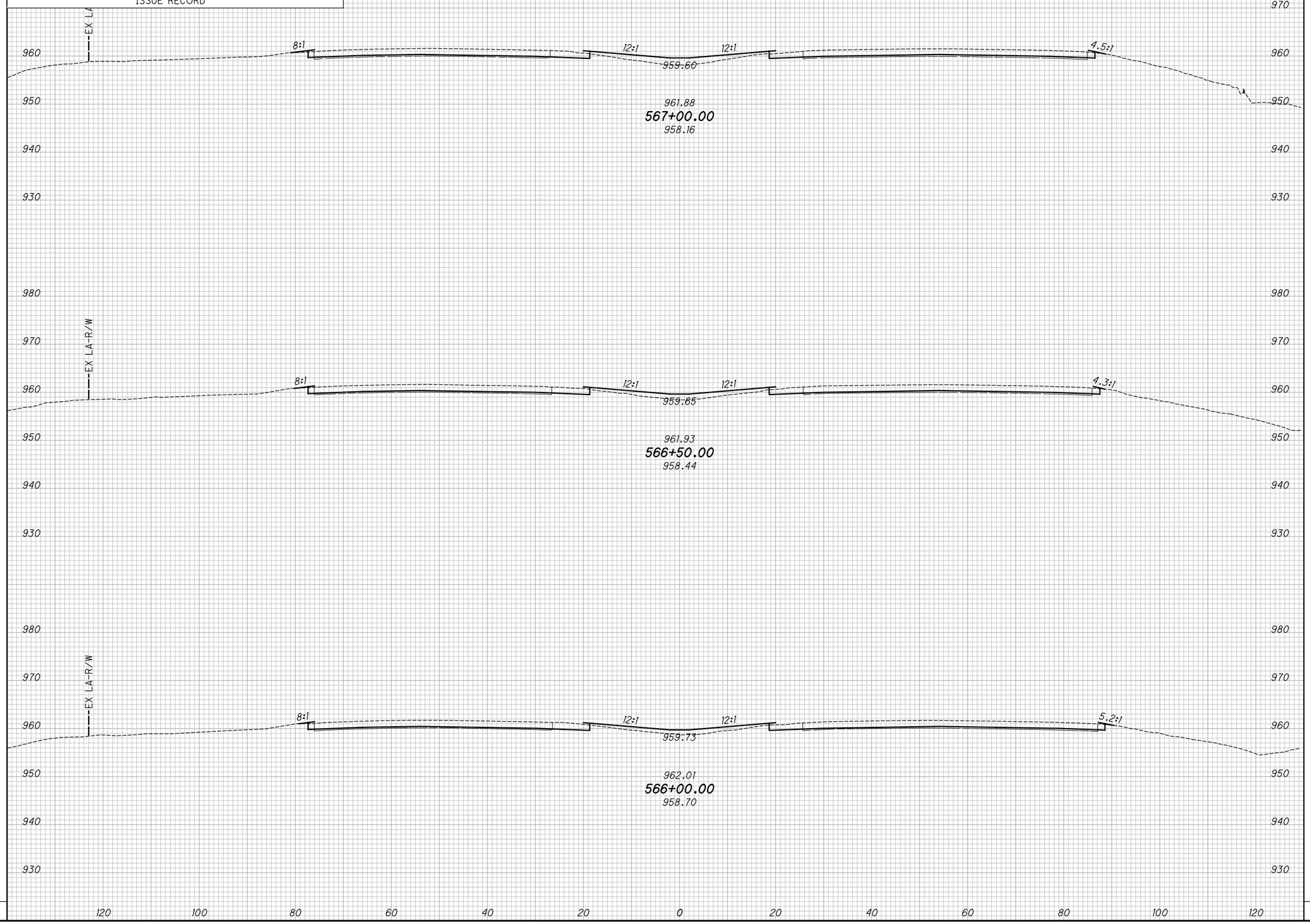
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 566+00.00 TO STA. 567+00.00

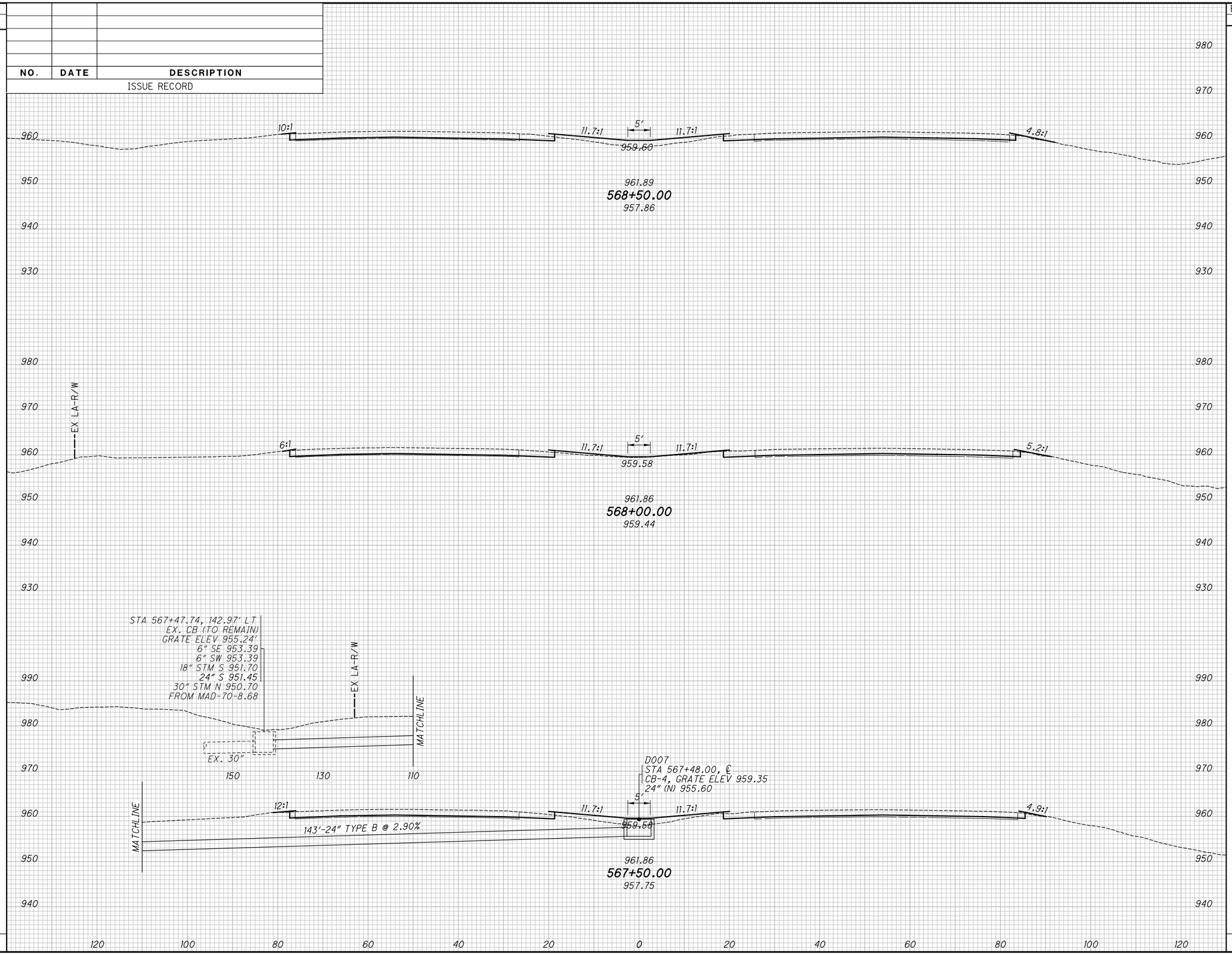
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_69 3/20/2019 9:44:48 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 567+50.00 TO STA. 568+50.00

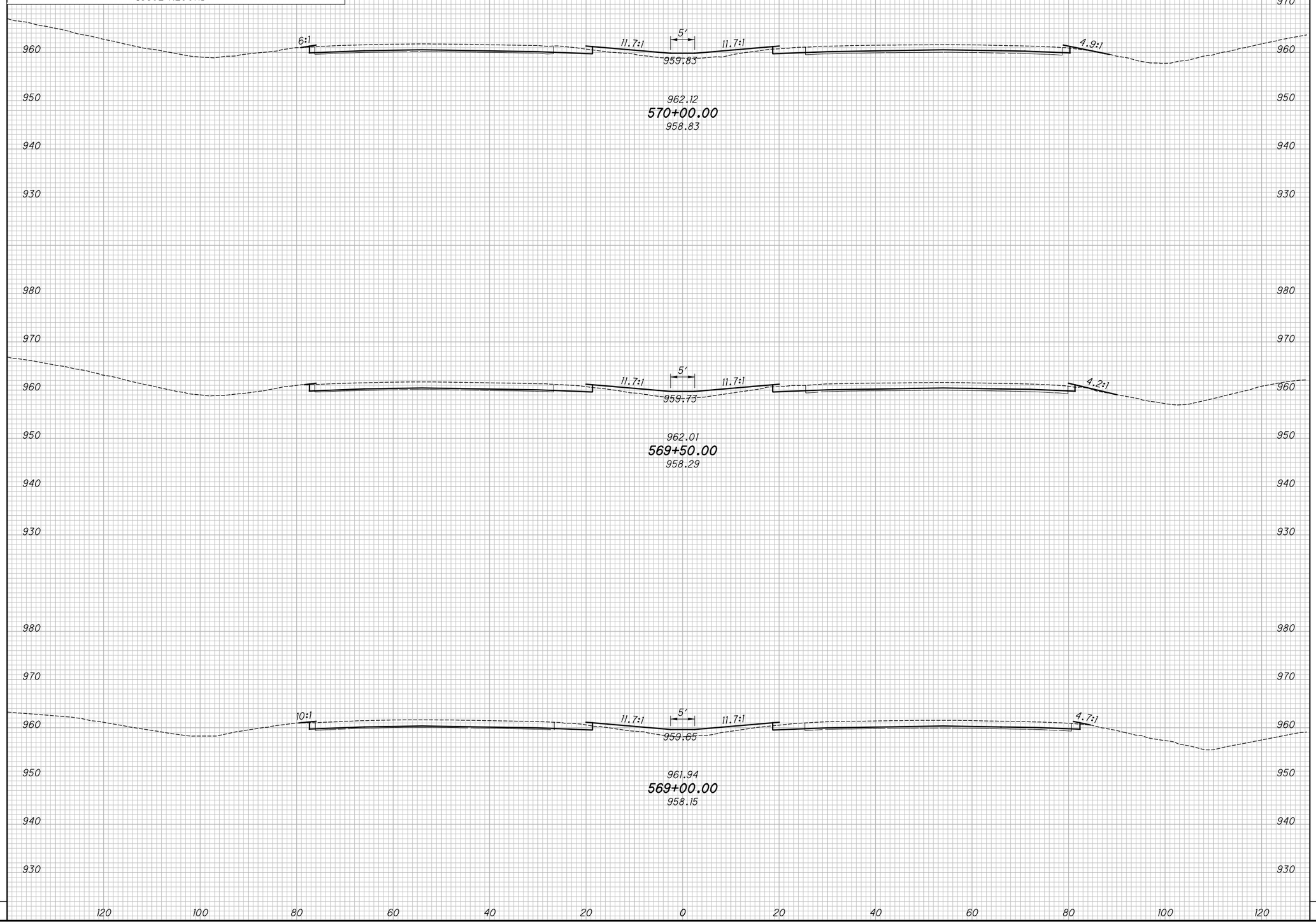
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_70 3/20/2019 9:44:50 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

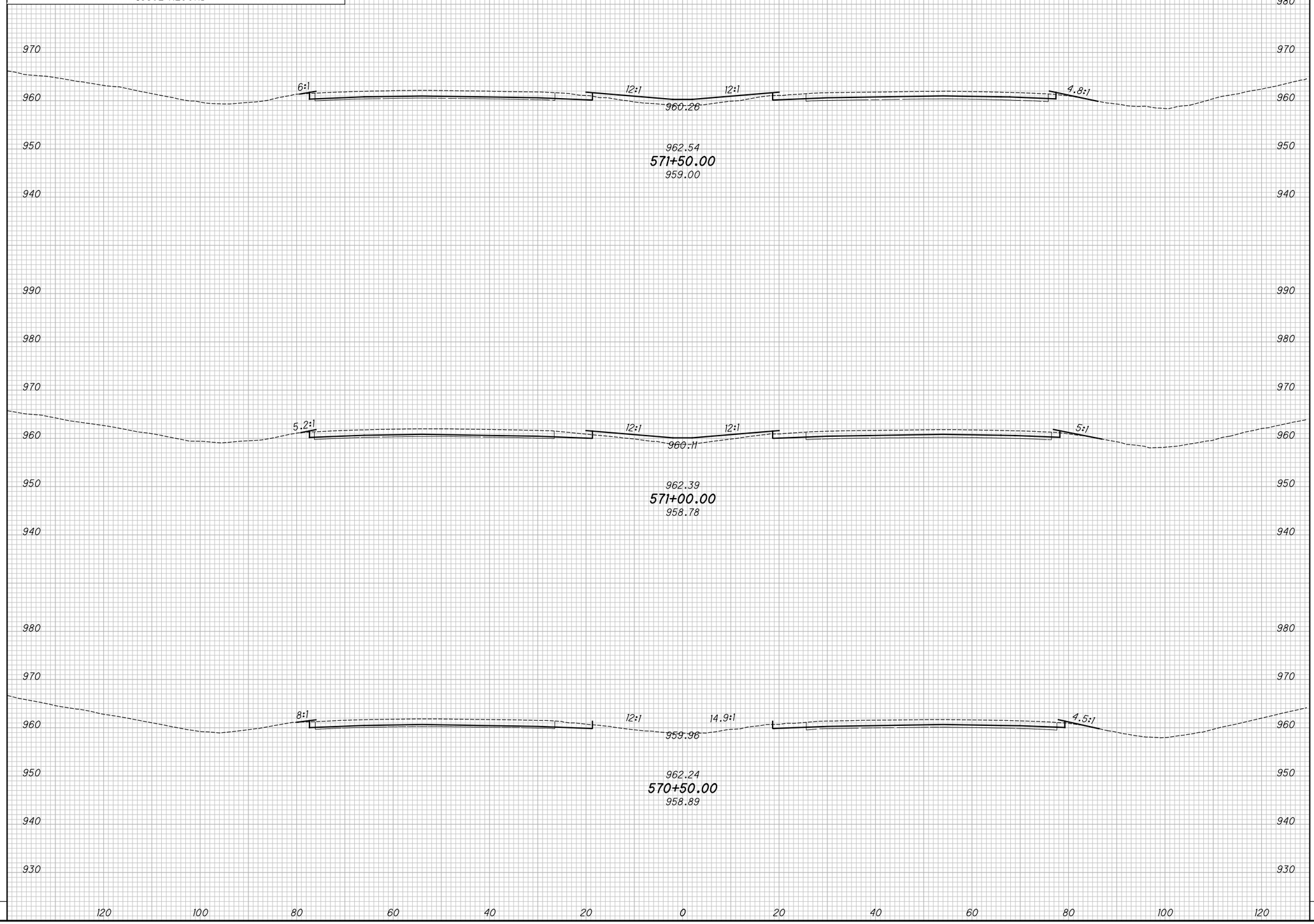
CROSS SECTIONS - IR 70
STA. 569+00.00 TO STA. 570+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_71 3/20/2019 9:44:52 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 570+50.00 TO STA. 571+50.00

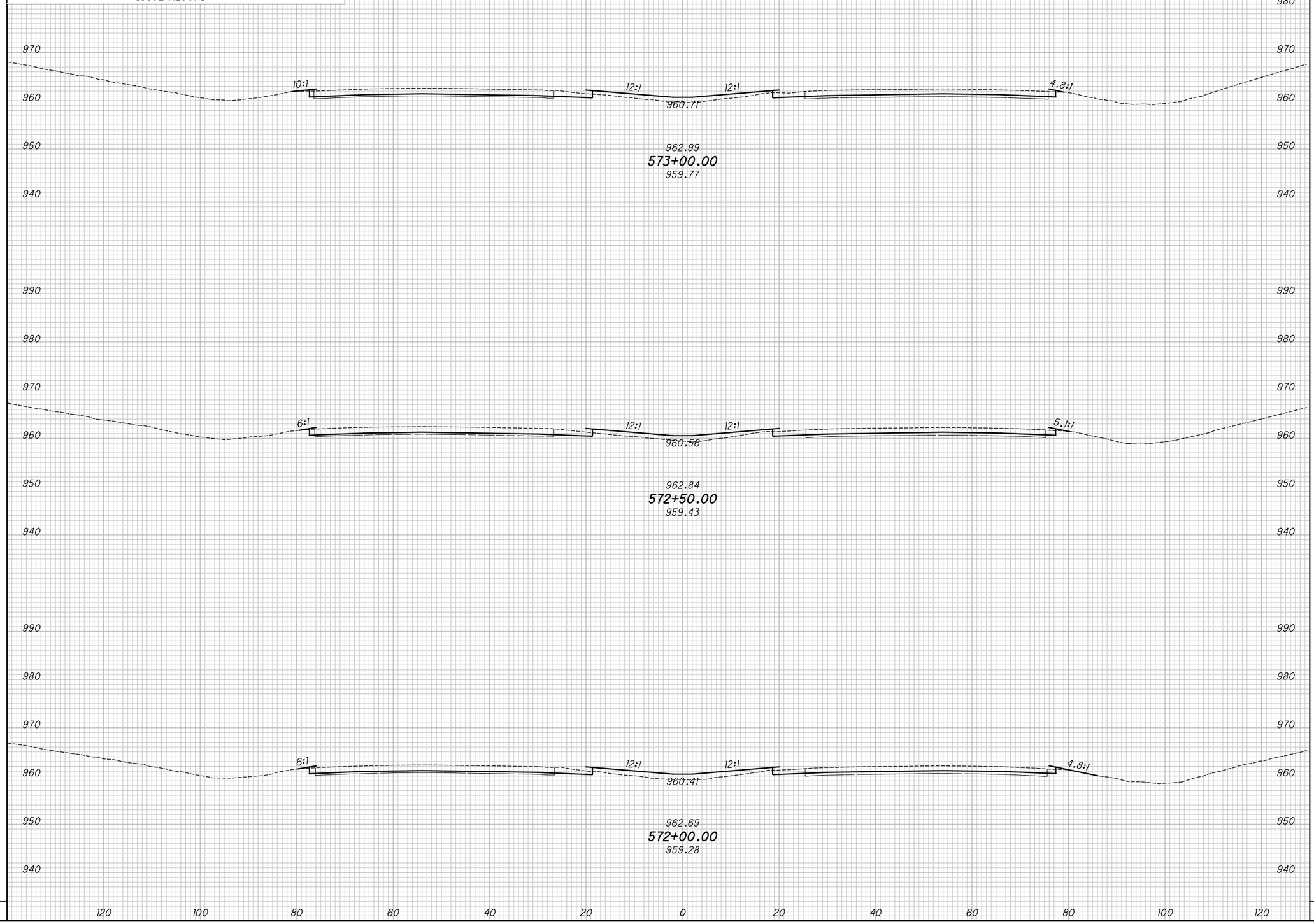
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_T2 3/20/2019 9:44:54 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 572+00.00 TO STA. 573+00.00

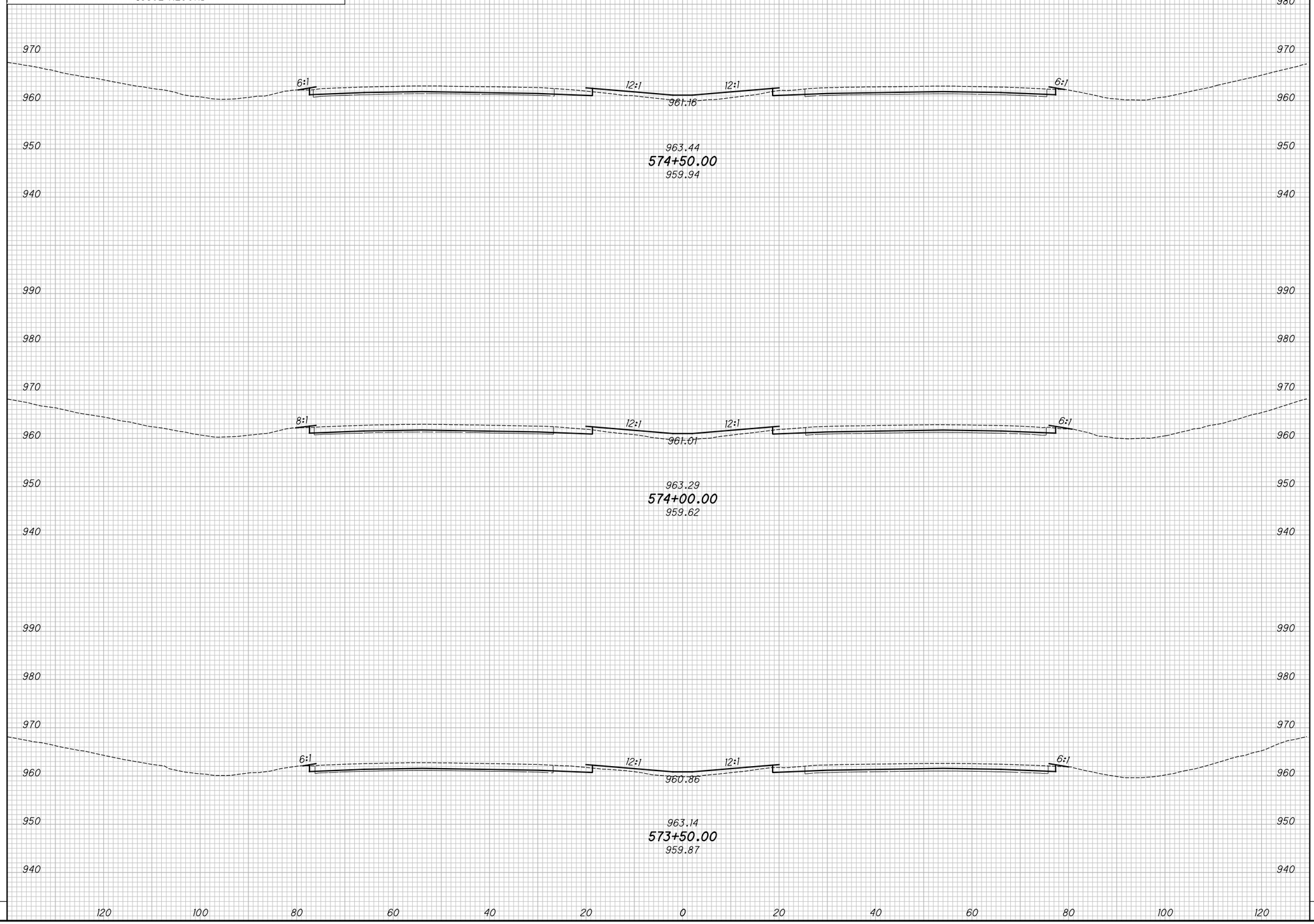
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_T3 3/20/2019 9:44:56 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 573+50.00 TO STA. 574+50.00

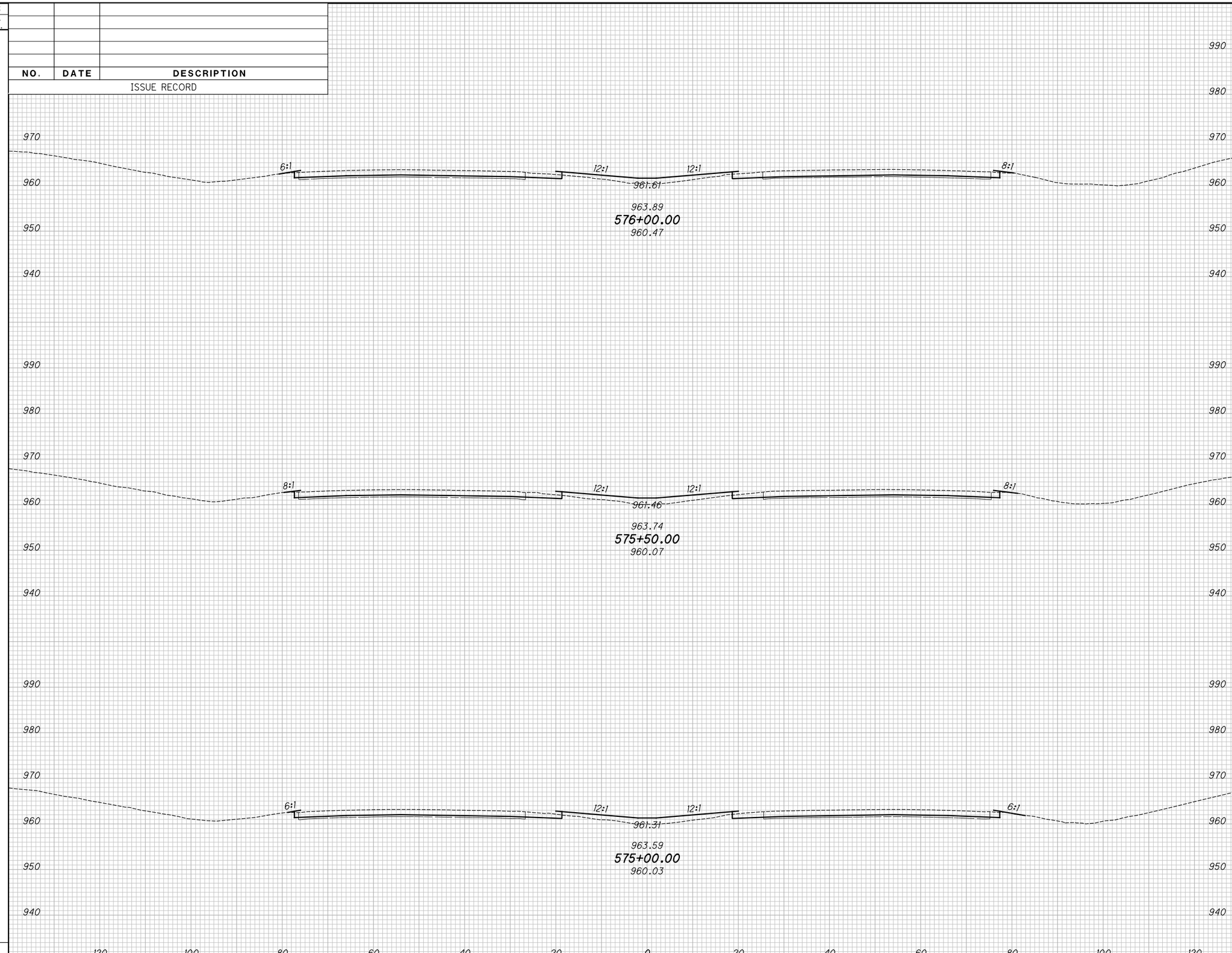
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_T4 3/20/2019 9:44:58 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 575+00.00 TO STA. 576+00.00

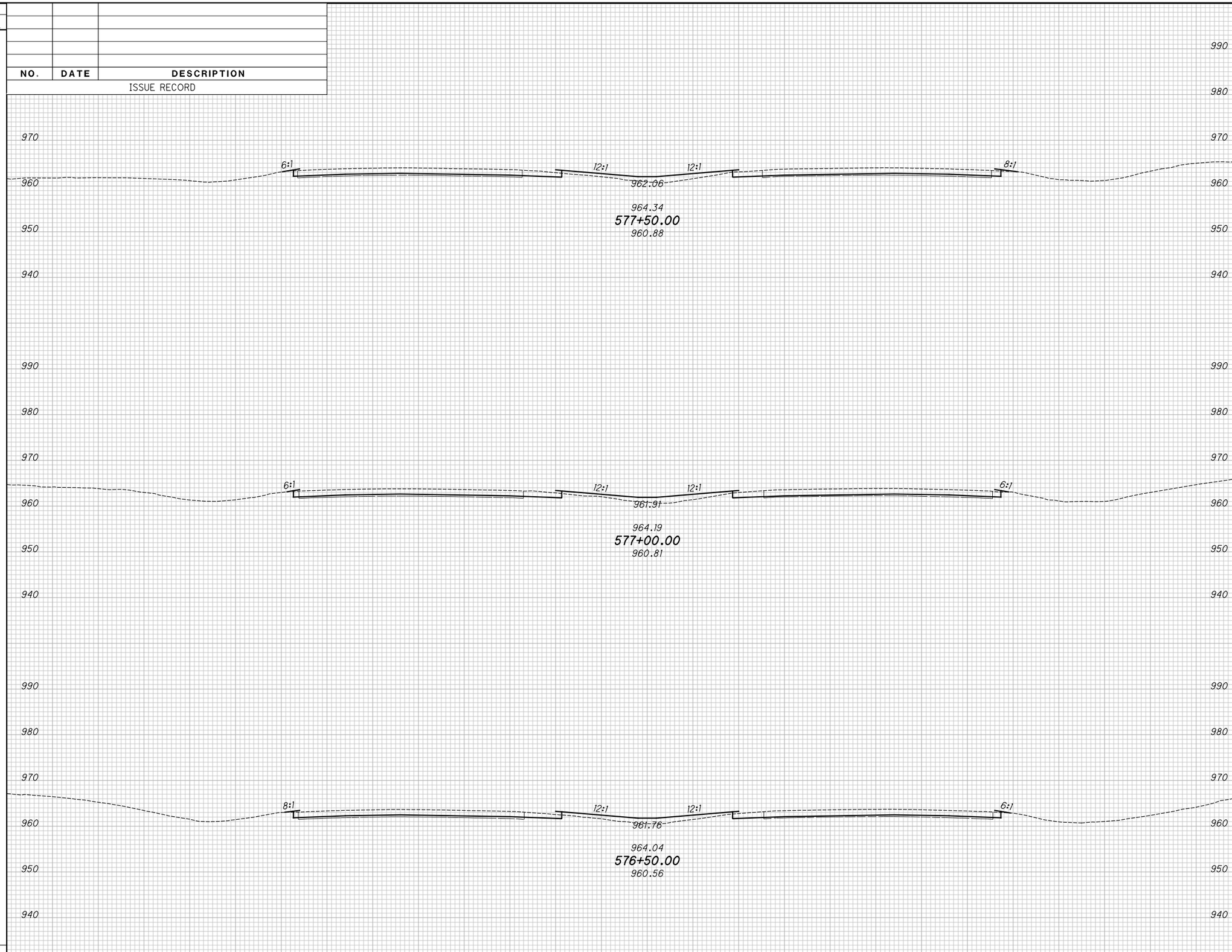
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_75 3/20/2019 9:45:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 576+50.00 TO STA. 577+50.00

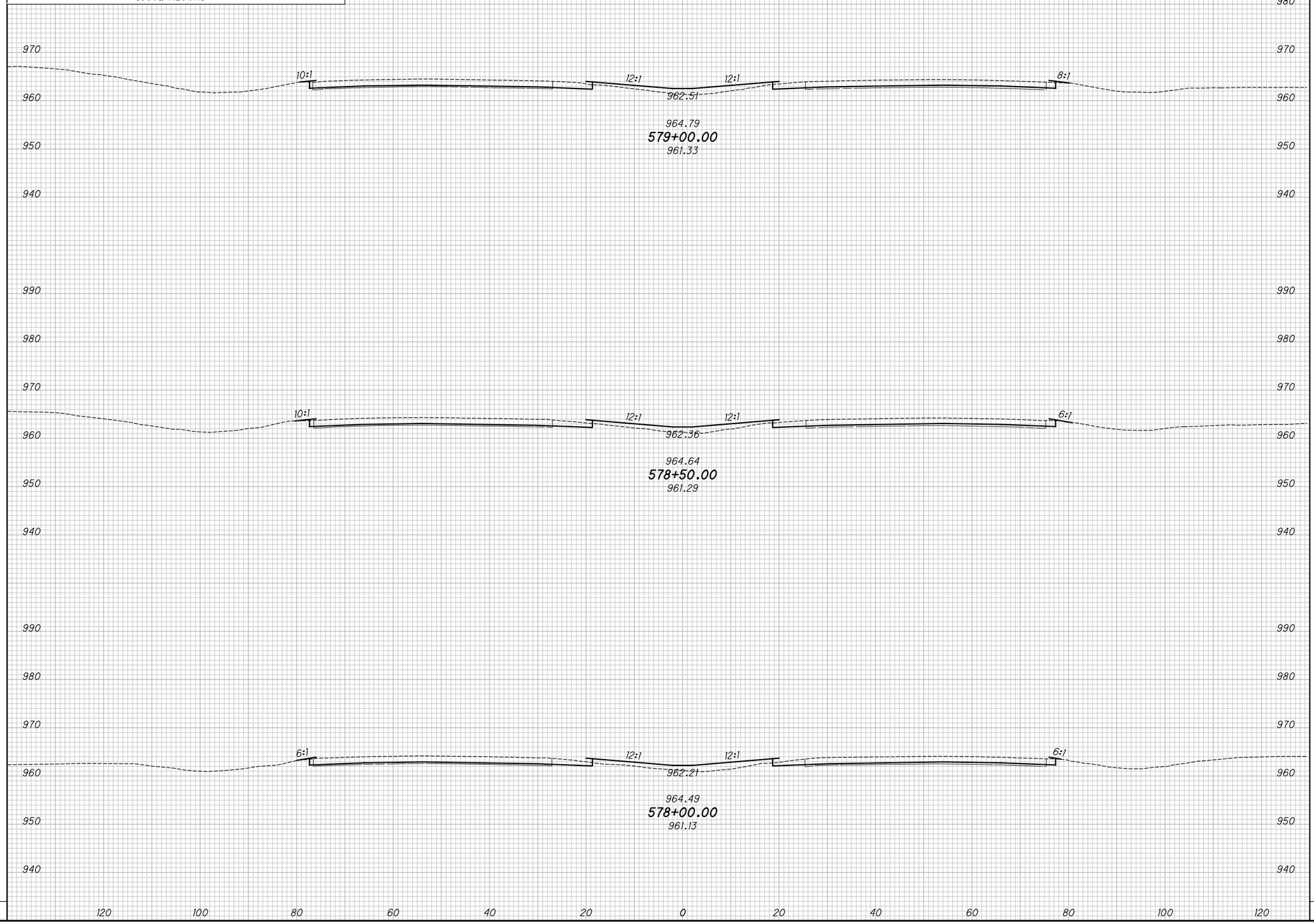
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_76 3/20/2019 9:45:02 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 578+00.00 TO STA. 579+00.00

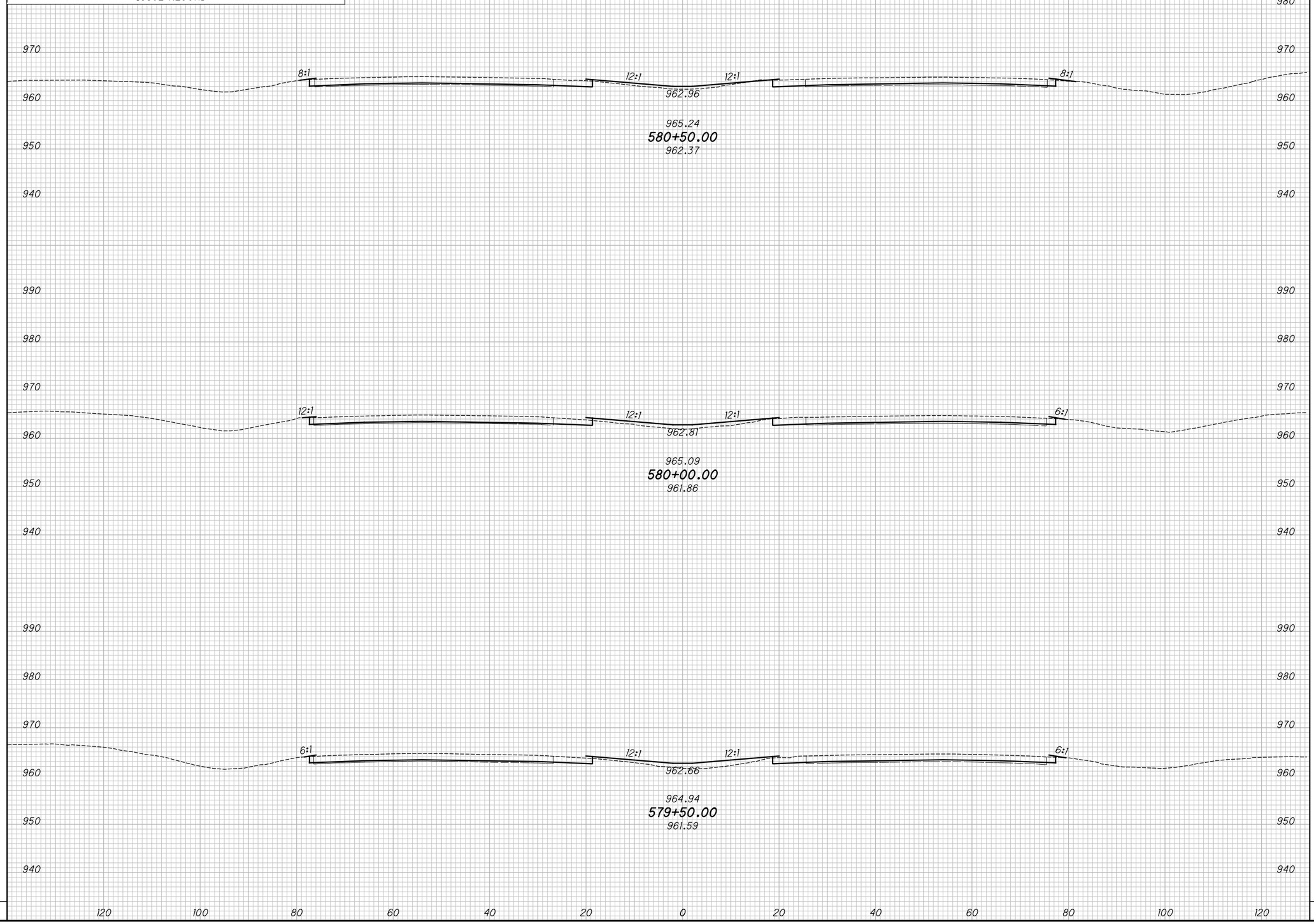
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_77 3/20/2019 9:45:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 579+50.00 TO STA. 580+50.00

MAD-70-8.62

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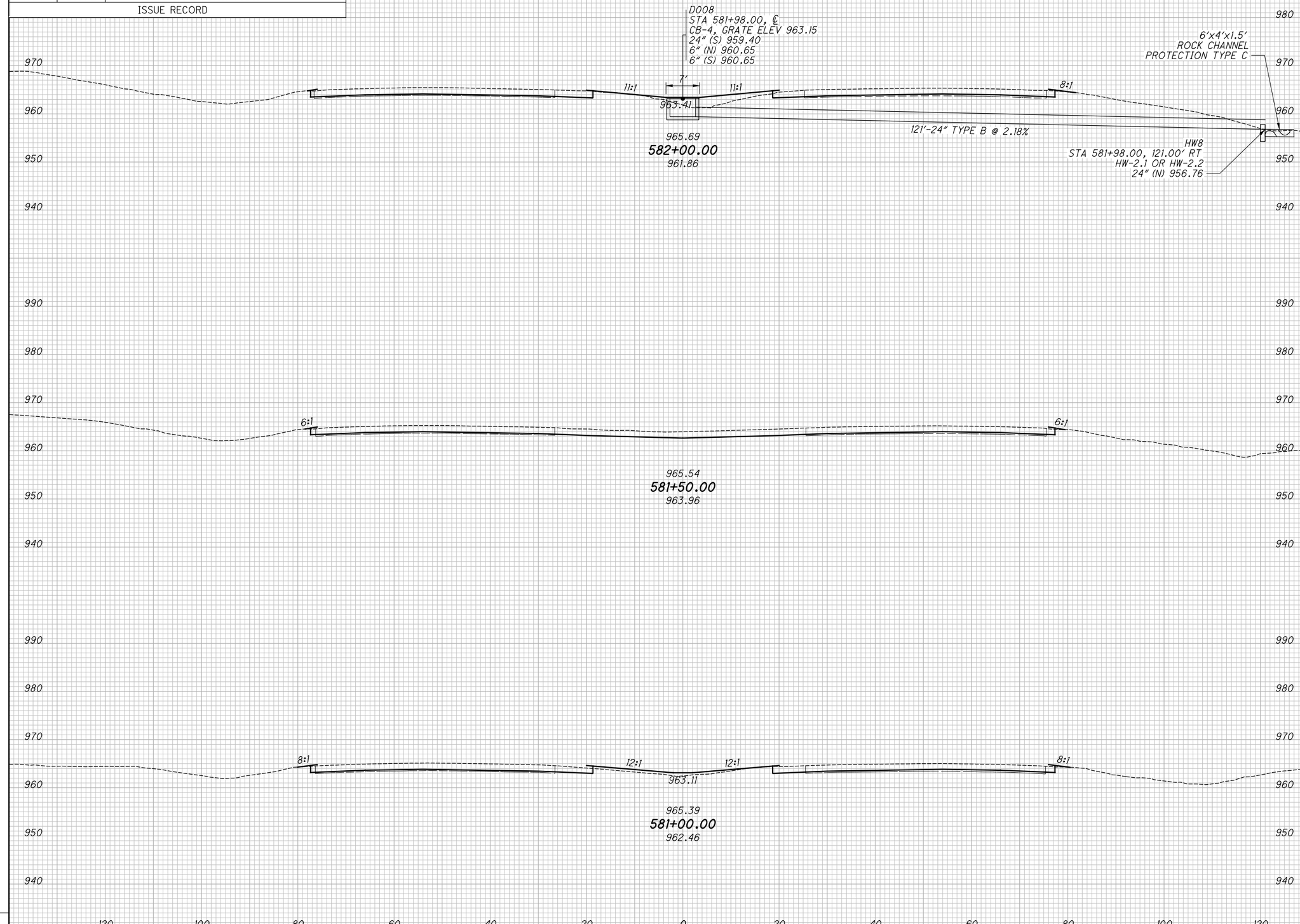
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 581+00.00 TO STA. 582+00.00

MAD-70-8.62

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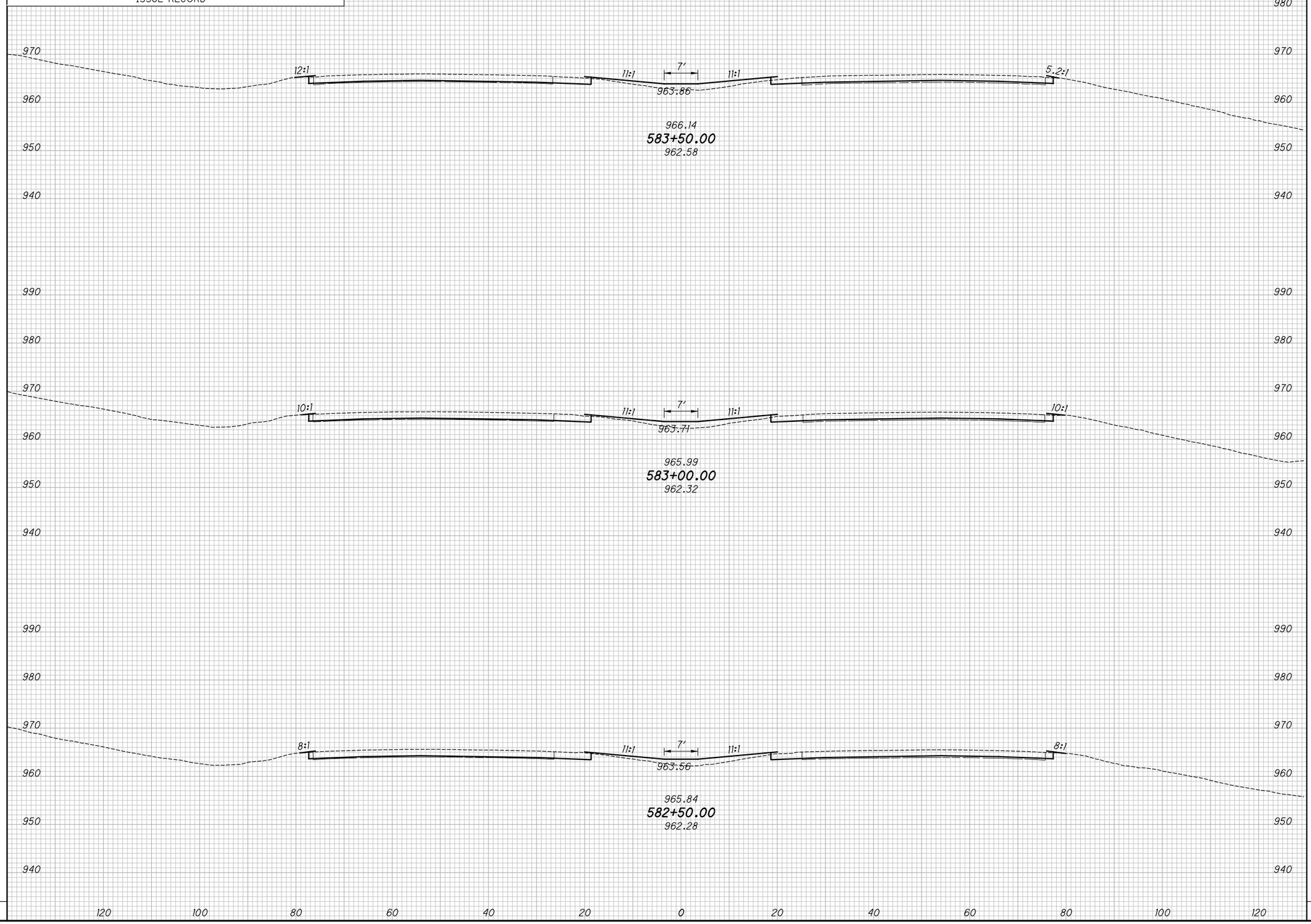
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 582+50.00 TO STA. 583+50.00

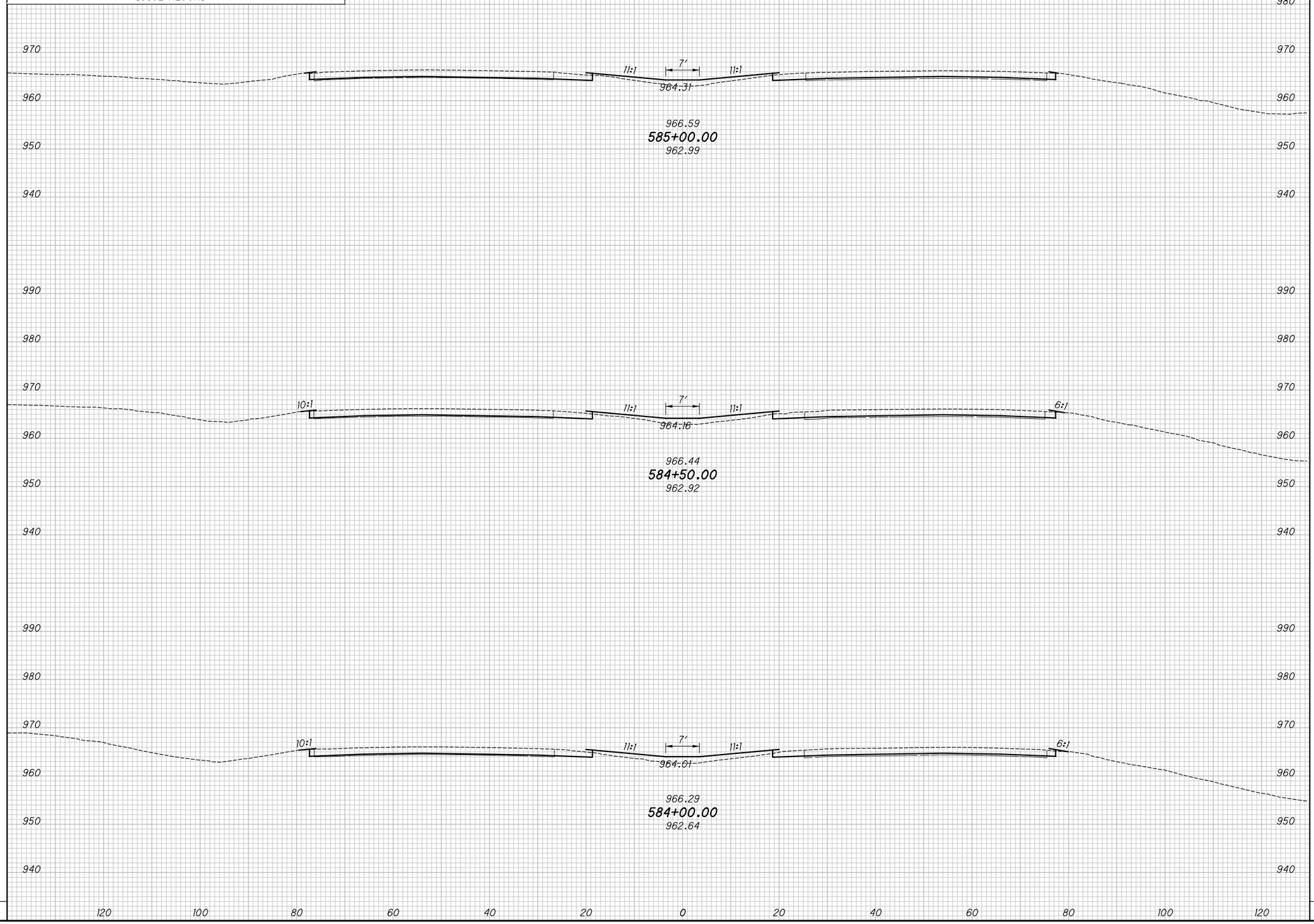
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_80 3/20/2019 9:45:10 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 584+00.00 TO STA. 585+00.00

MAD-70-8.62

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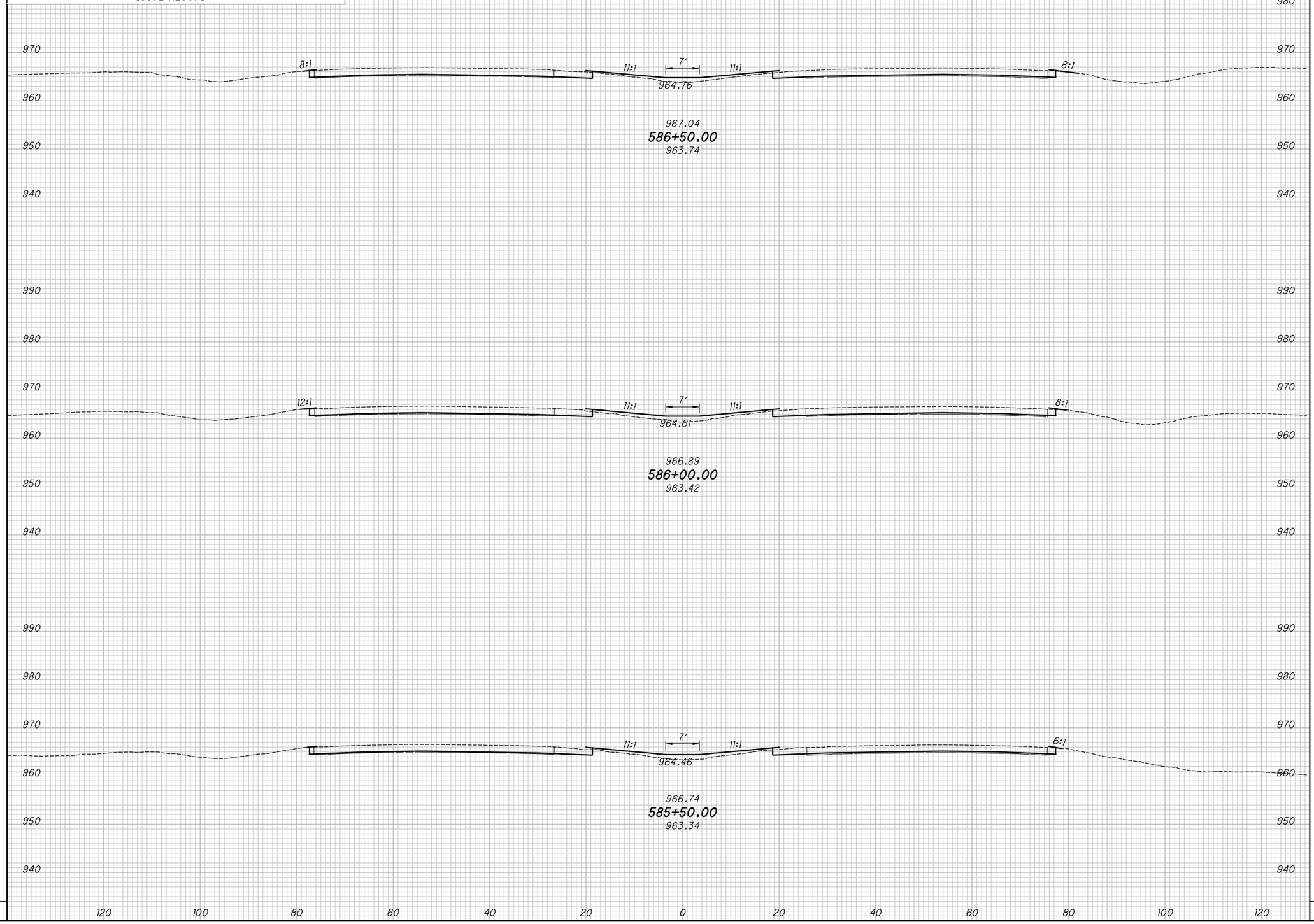
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 585+50.00 TO STA. 586+50.00

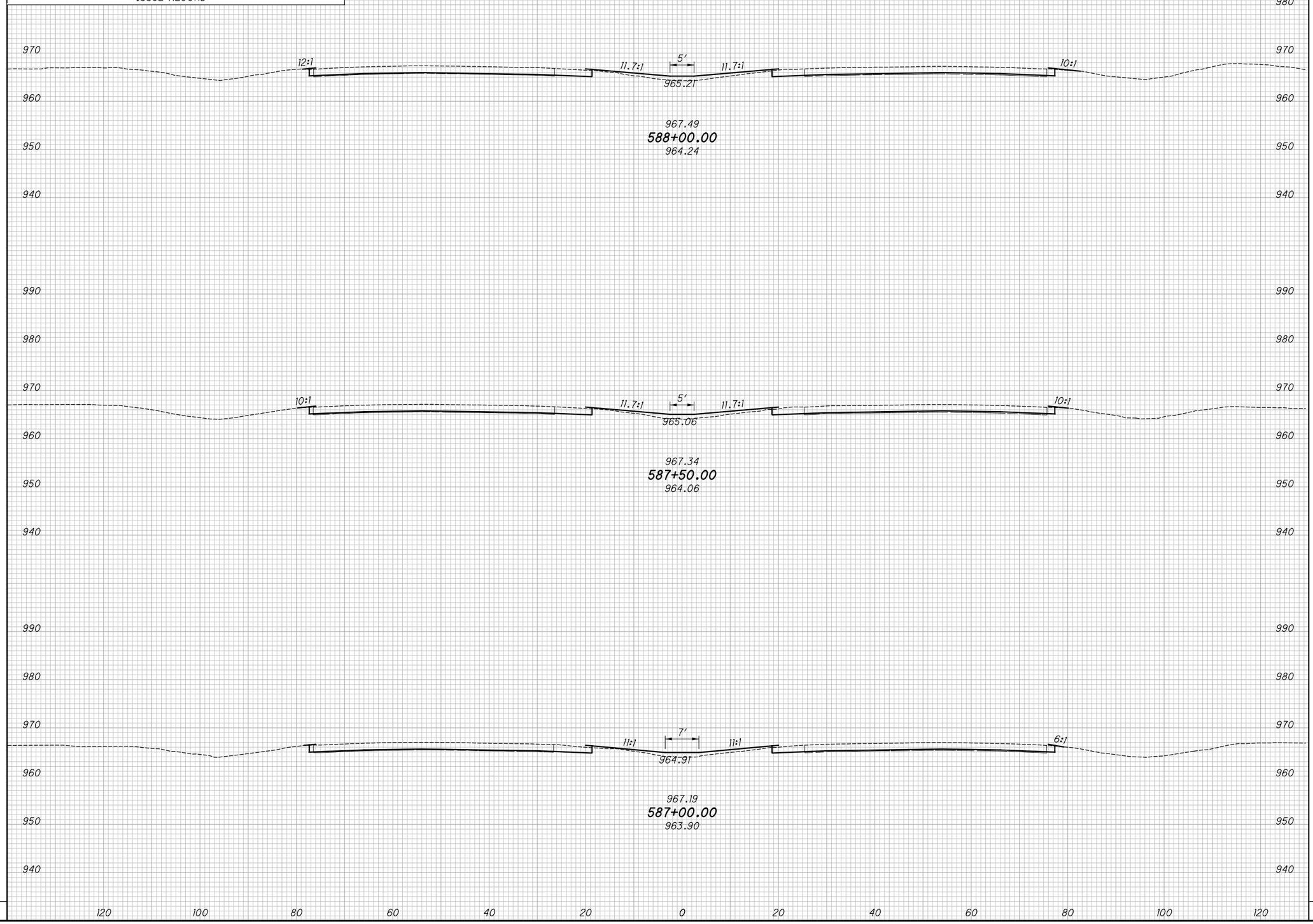
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_82 3/20/2019 9:45:14 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

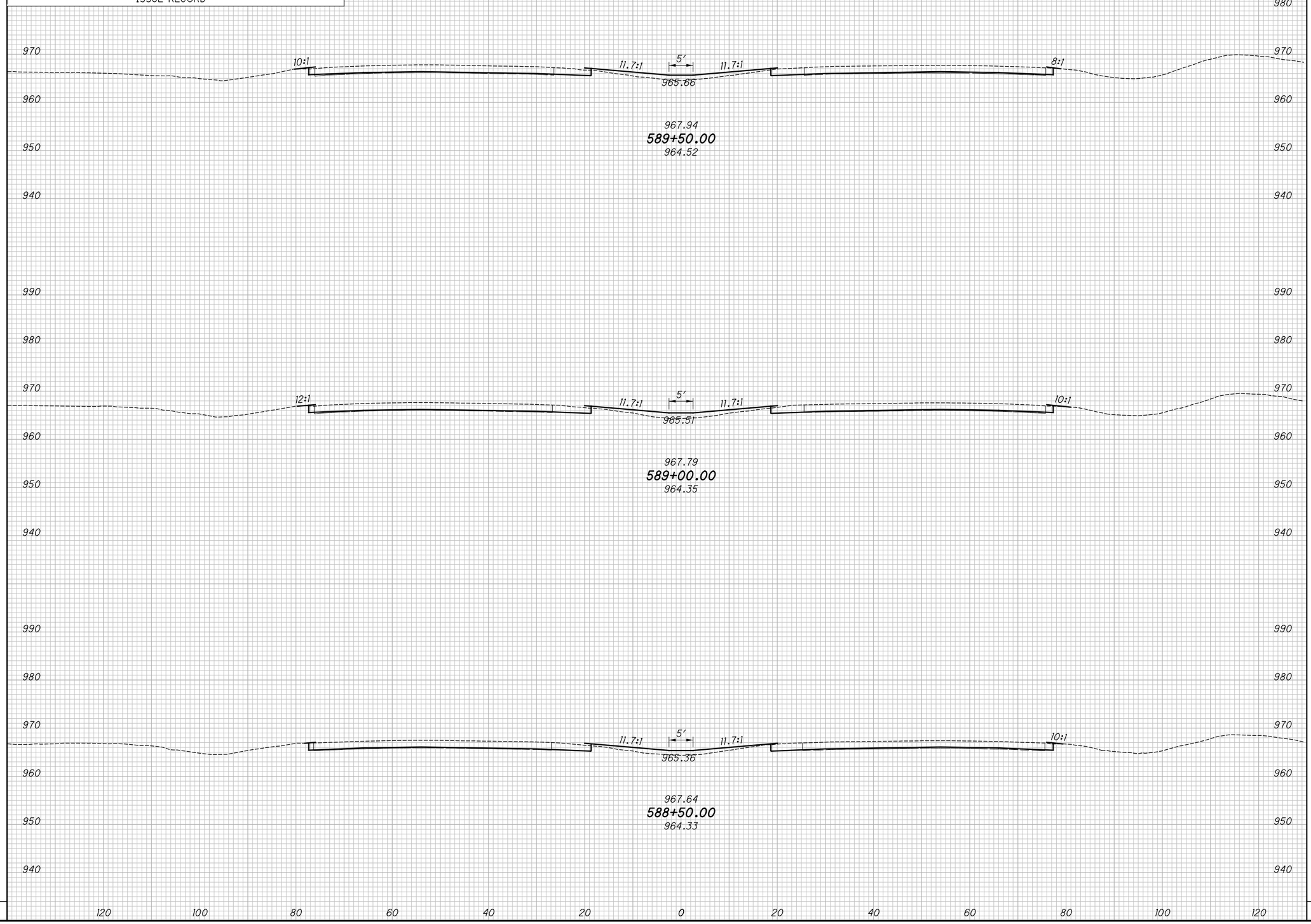
CROSS SECTIONS - IR 70
STA. 587+00.00 TO STA. 588+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_83 3/20/2019 9:45:16 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 588+50.00 TO STA. 589+50.00

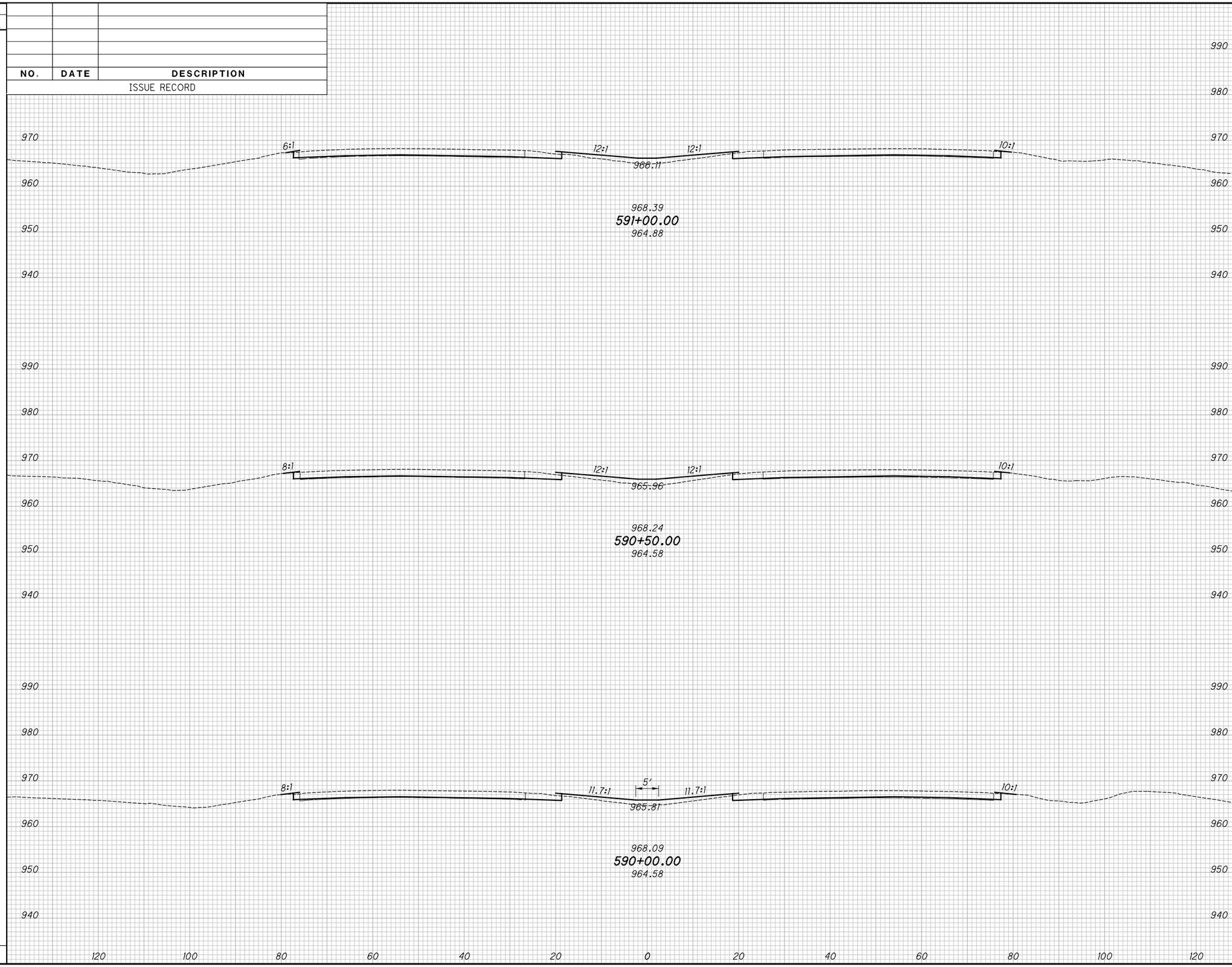
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_84 3/20/2019 9:45:18 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 590+00.00 TO STA. 591+00.00

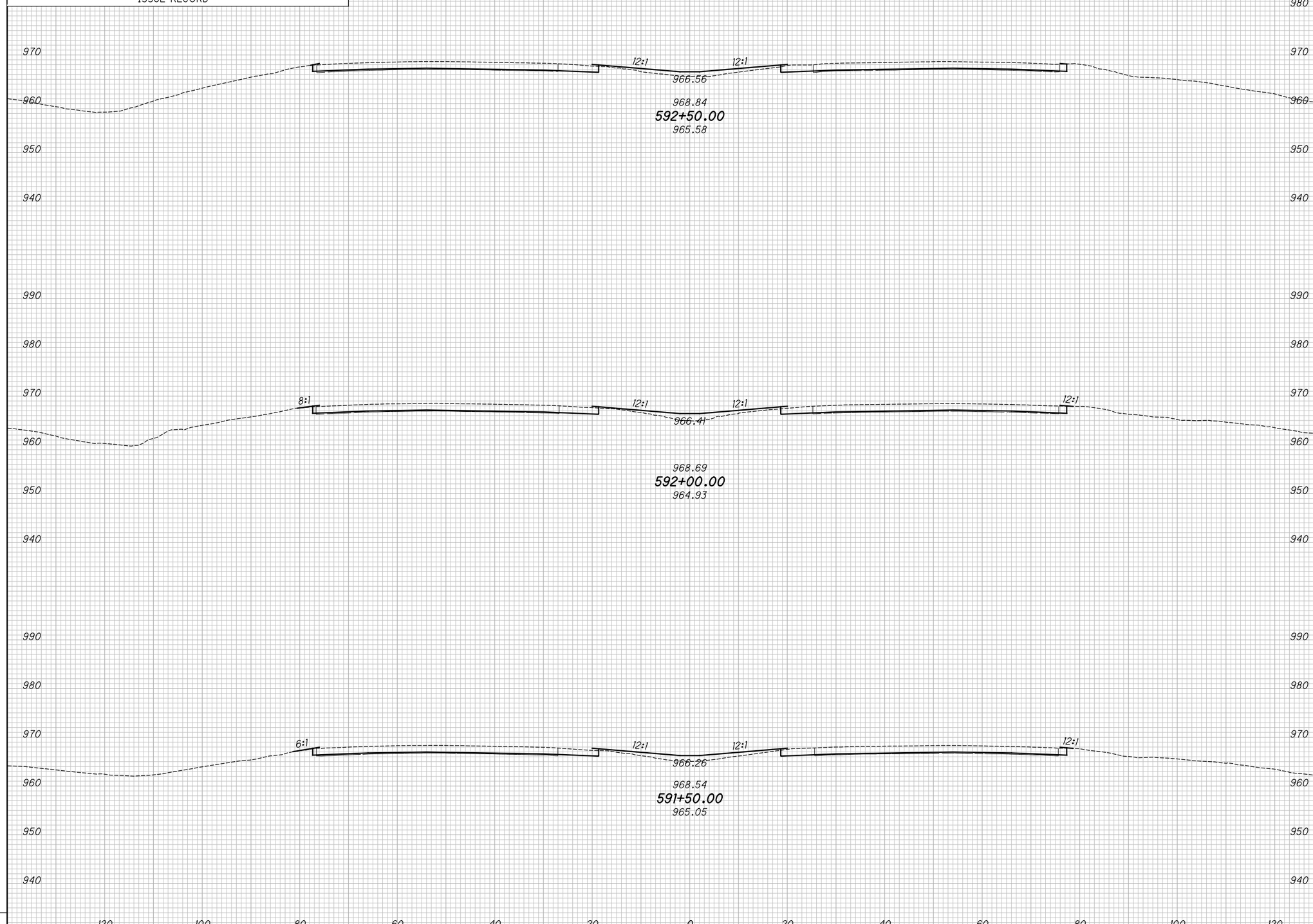
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_85 3/20/2019 9:45:20 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 591+50.00 TO STA. 592+50.00

MAD-70-8.62

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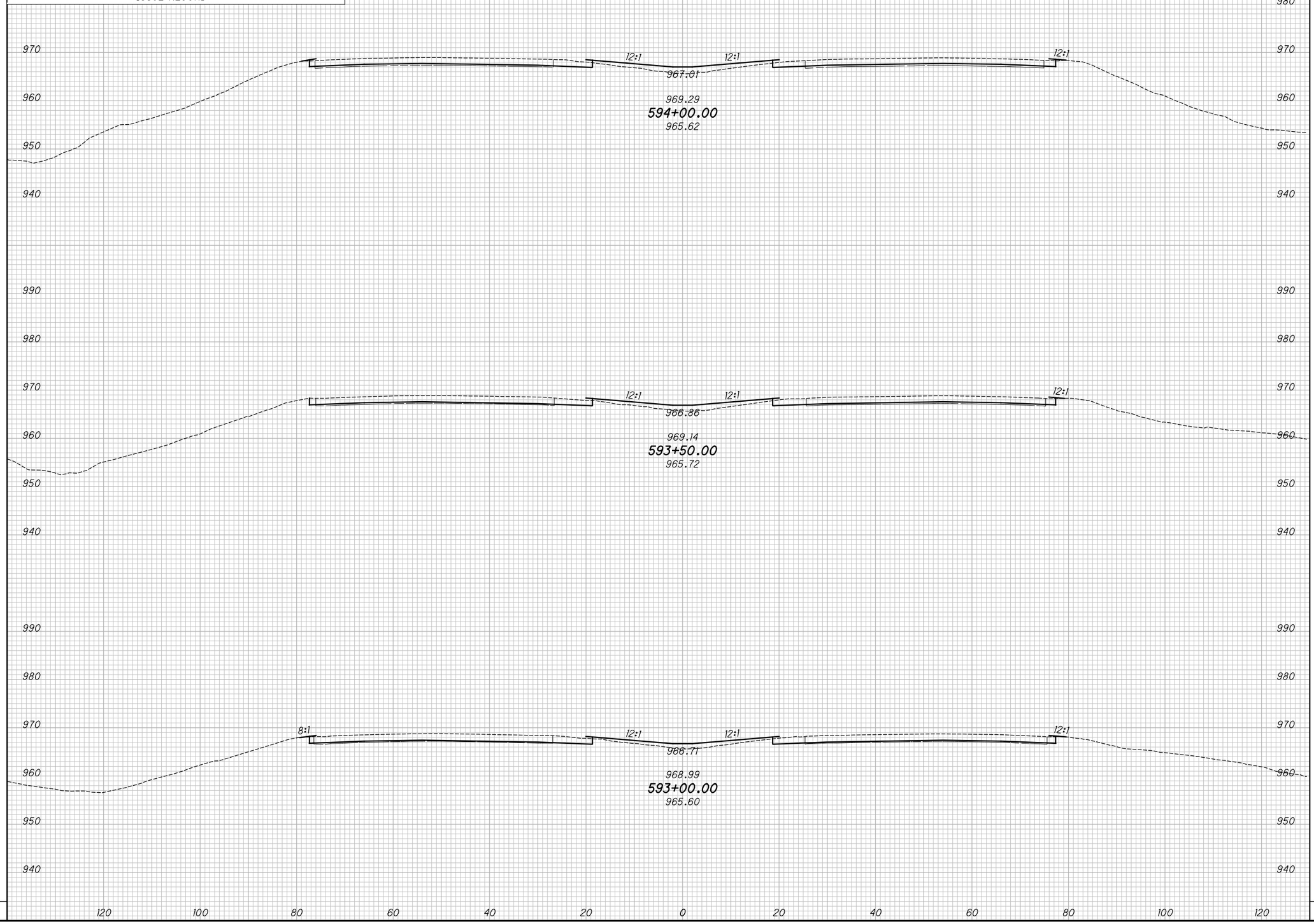
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

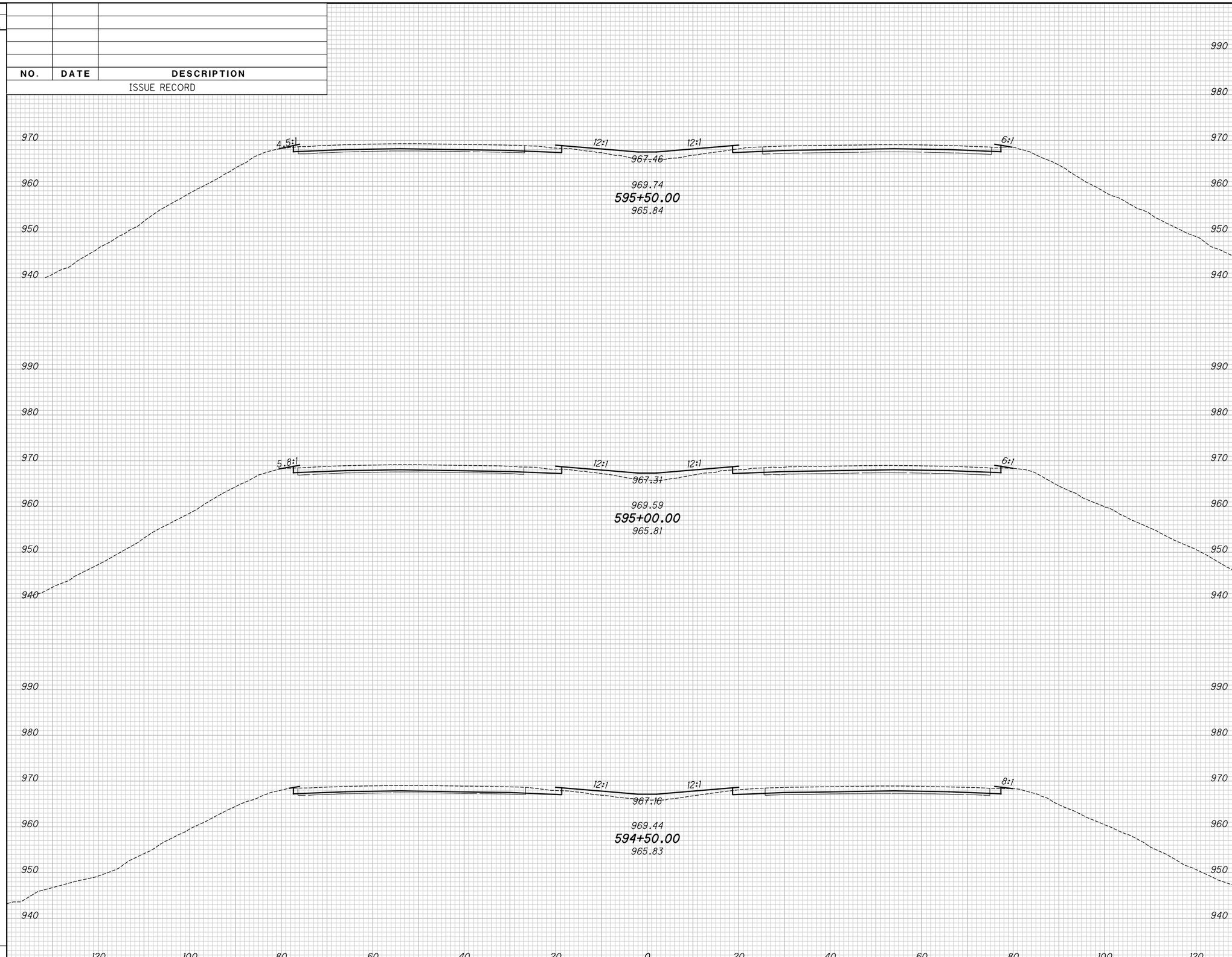
CROSS SECTIONS - IR 70
STA. 593+00.00 TO STA. 594+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_87 3/20/2019 9:45:24 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

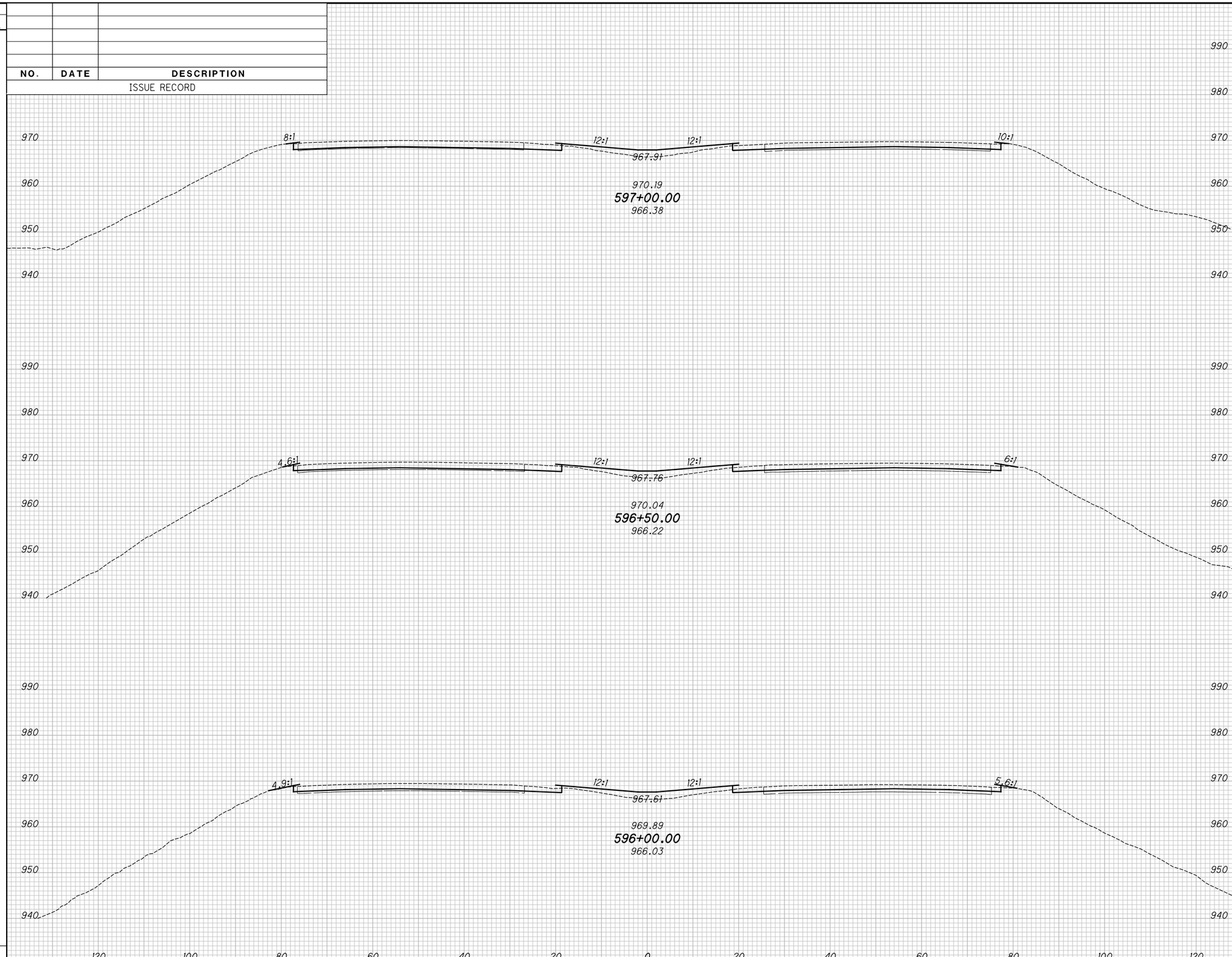
CROSS SECTIONS - IR 70
STA. 594+50.00 TO STA. 595+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_88 3/20/2019 9:45:26 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 596+00.00 TO STA. 597+00.00

MAD-70-8.62

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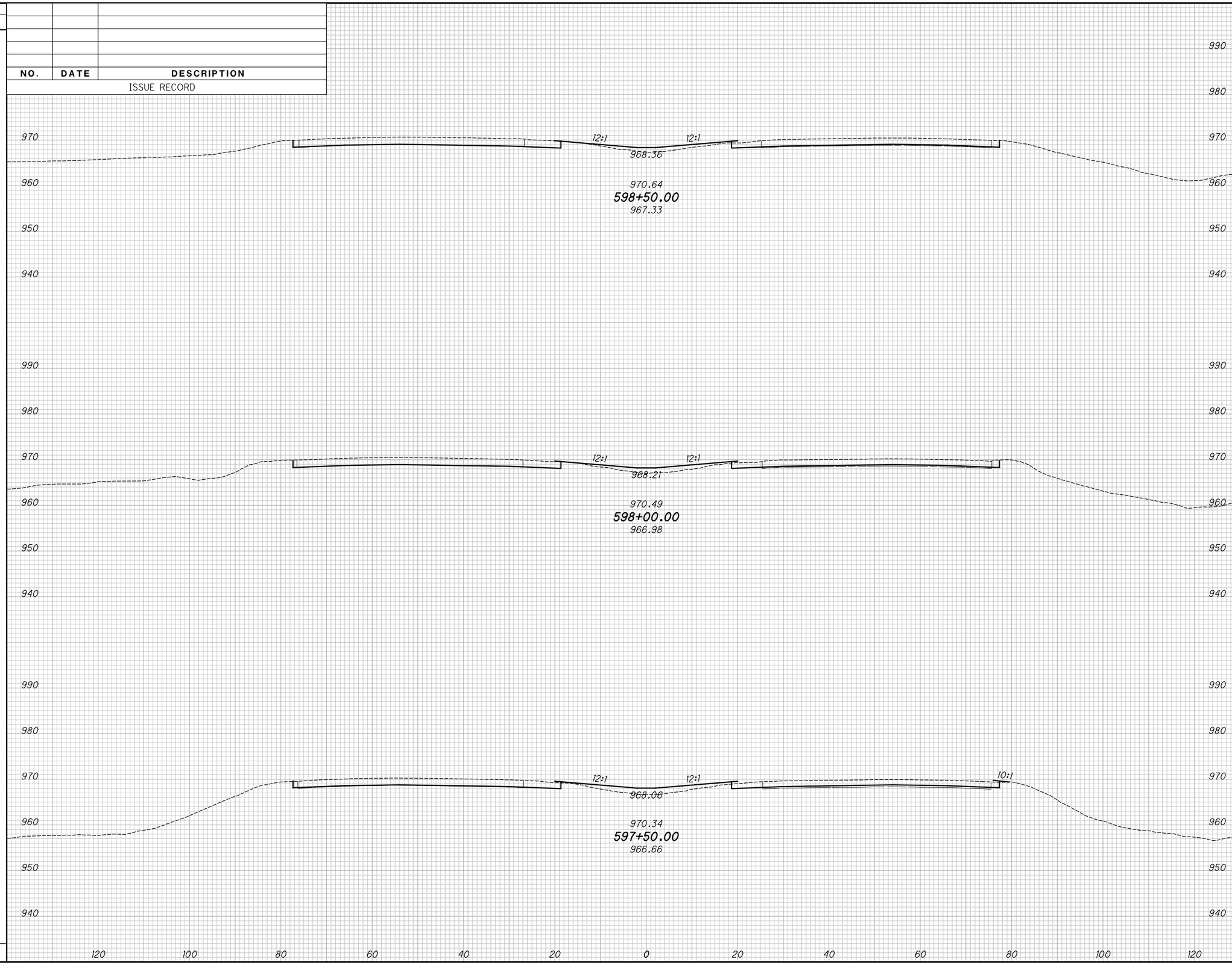
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 597+50.00 TO STA. 598+50.00

MAD-70-8.62

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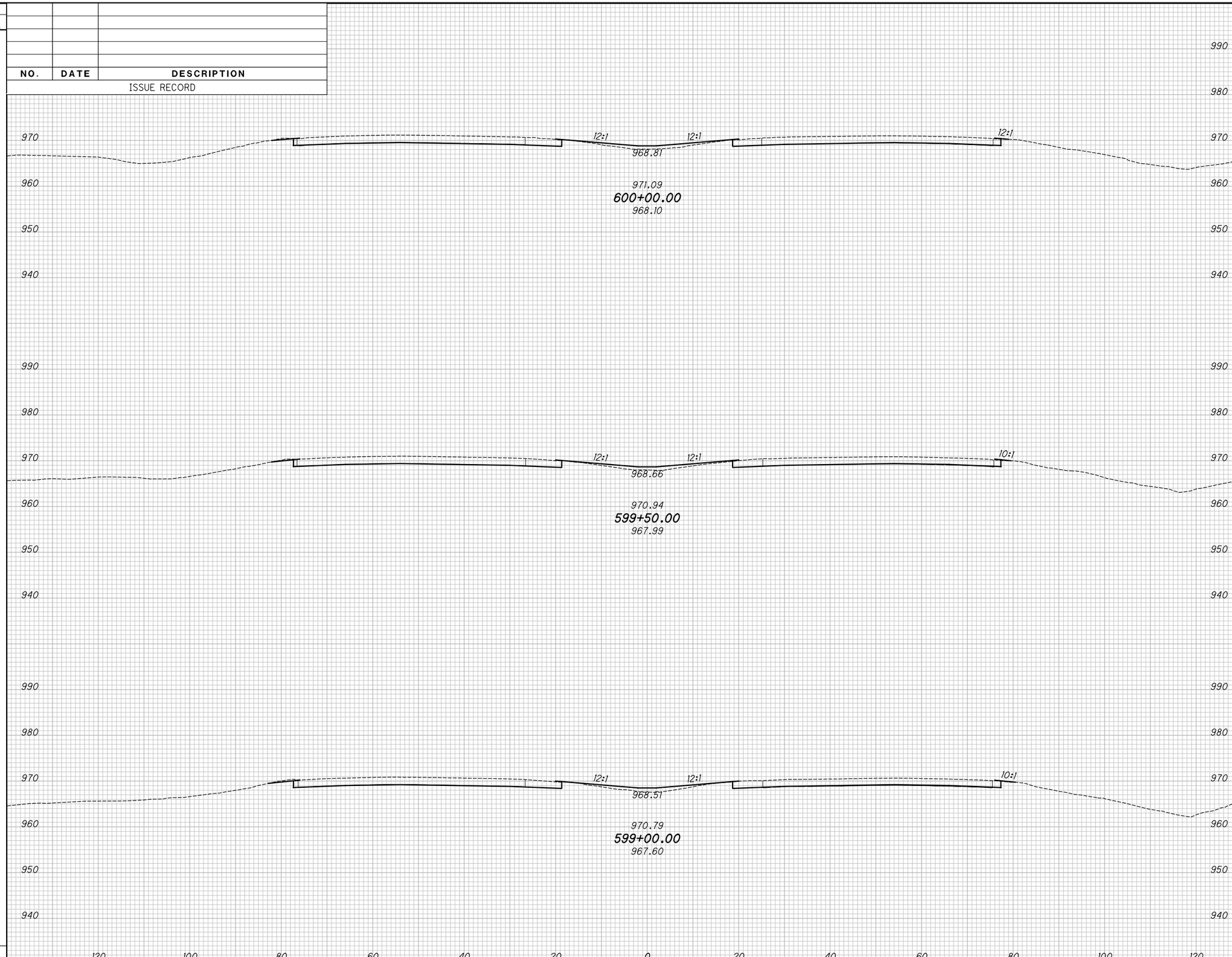
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 599+00.00 TO STA. 600+00.00

MAD-70-8.62

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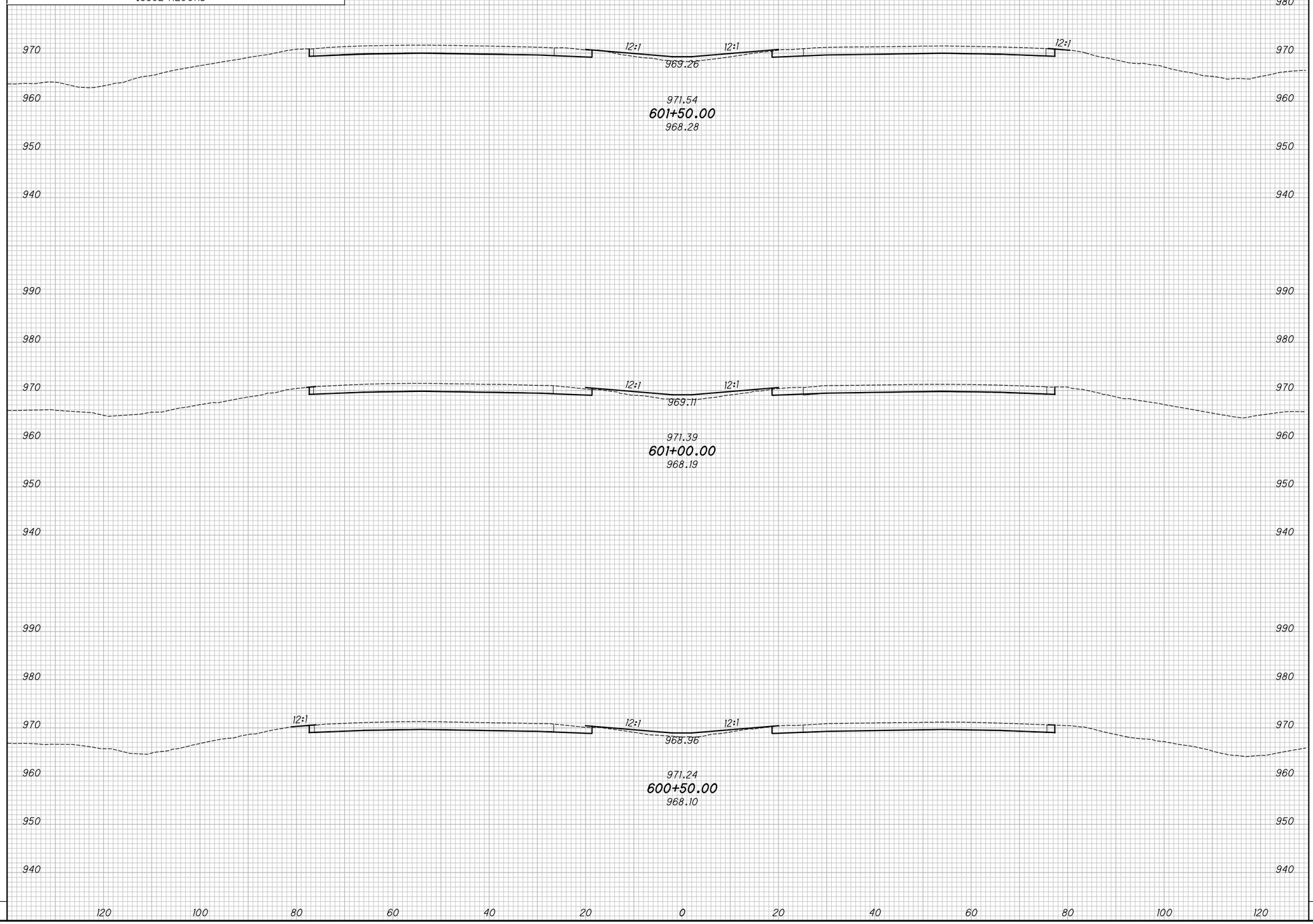
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 600+50.00 TO STA. 601+50.00

MAD-70-8.62

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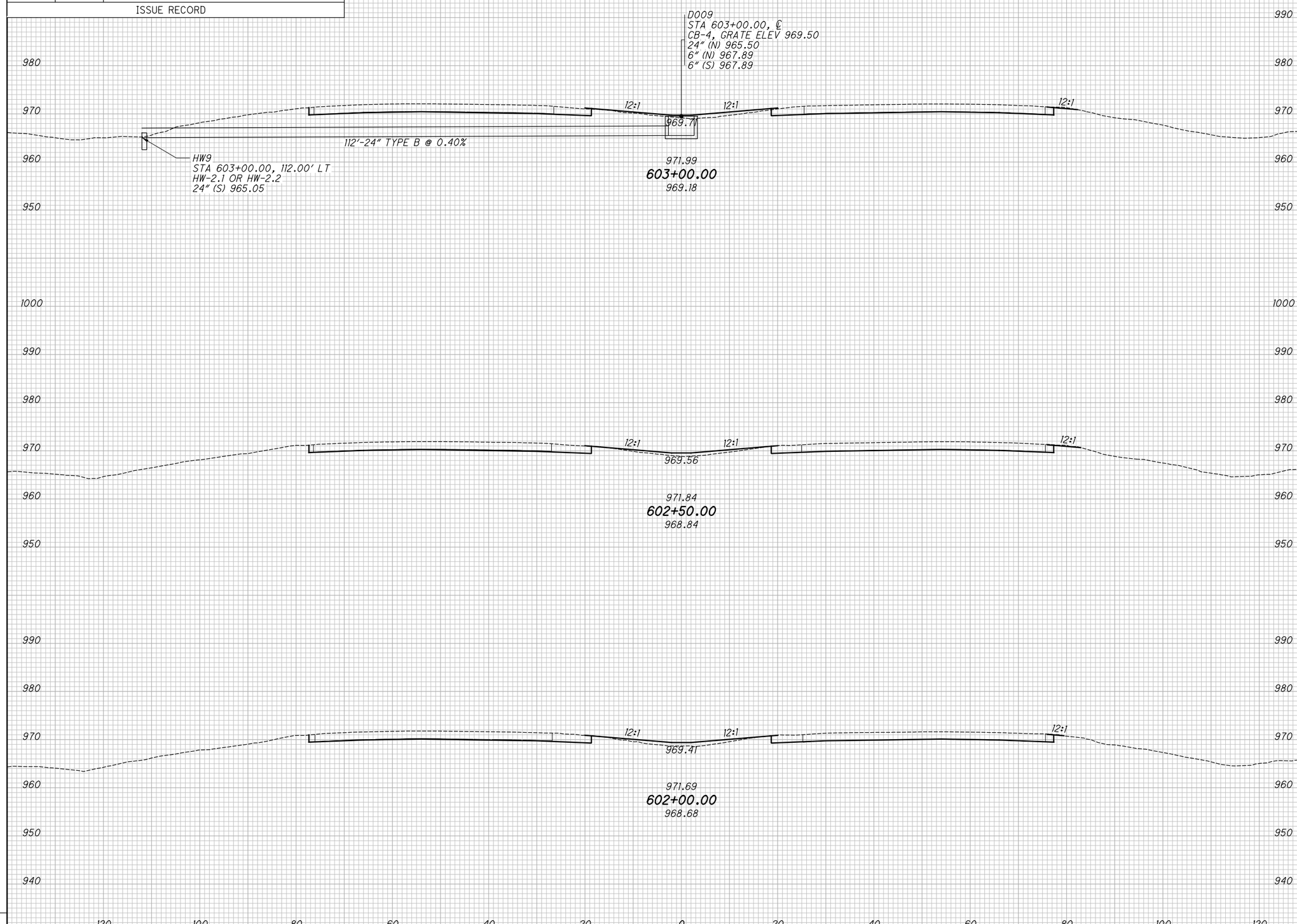
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

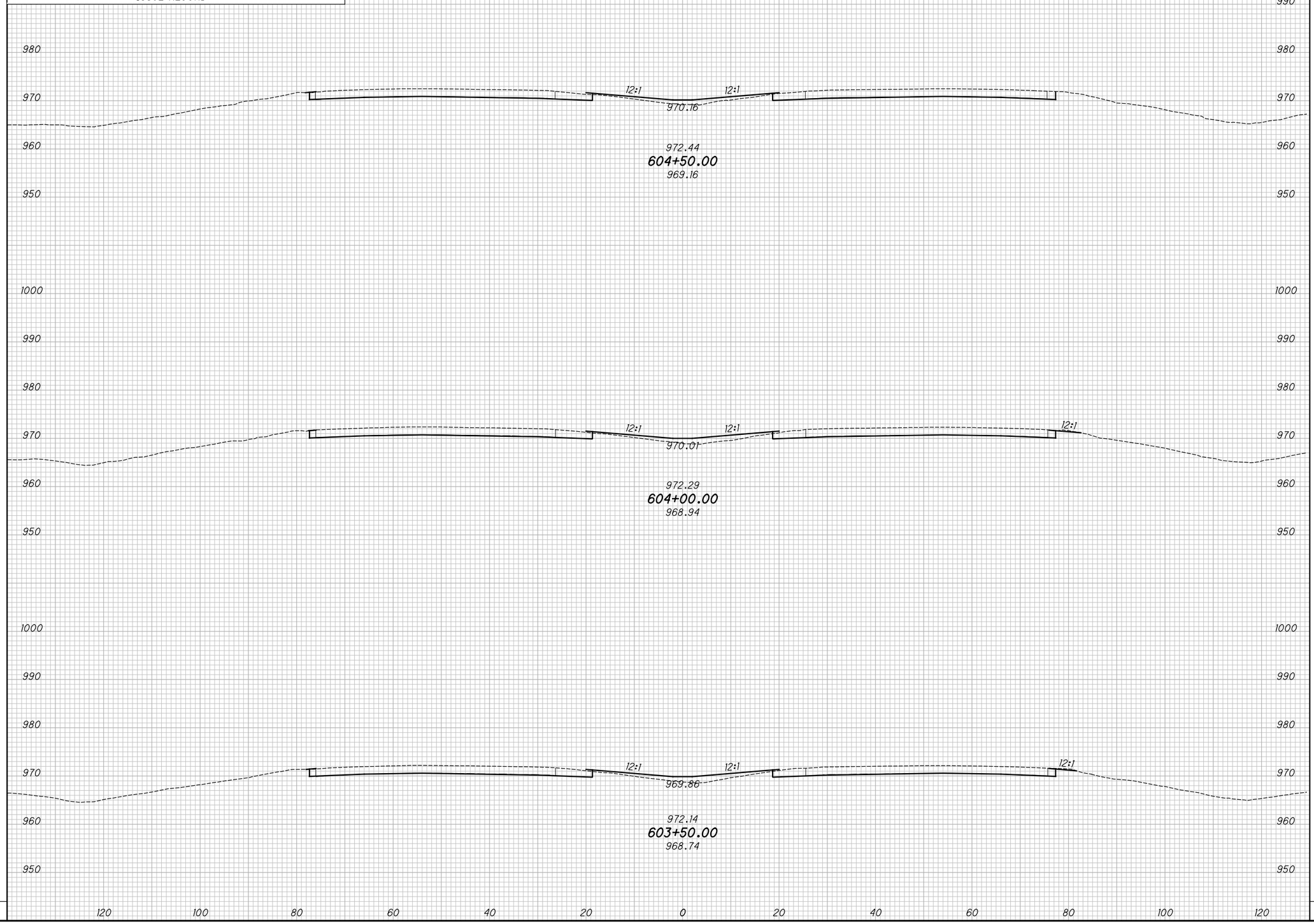
CROSS SECTIONS - IR 70
STA. 602+00.00 TO STA. 603+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_93 3/20/2019 9:45:36 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 603+50.00 TO STA. 604+50.00

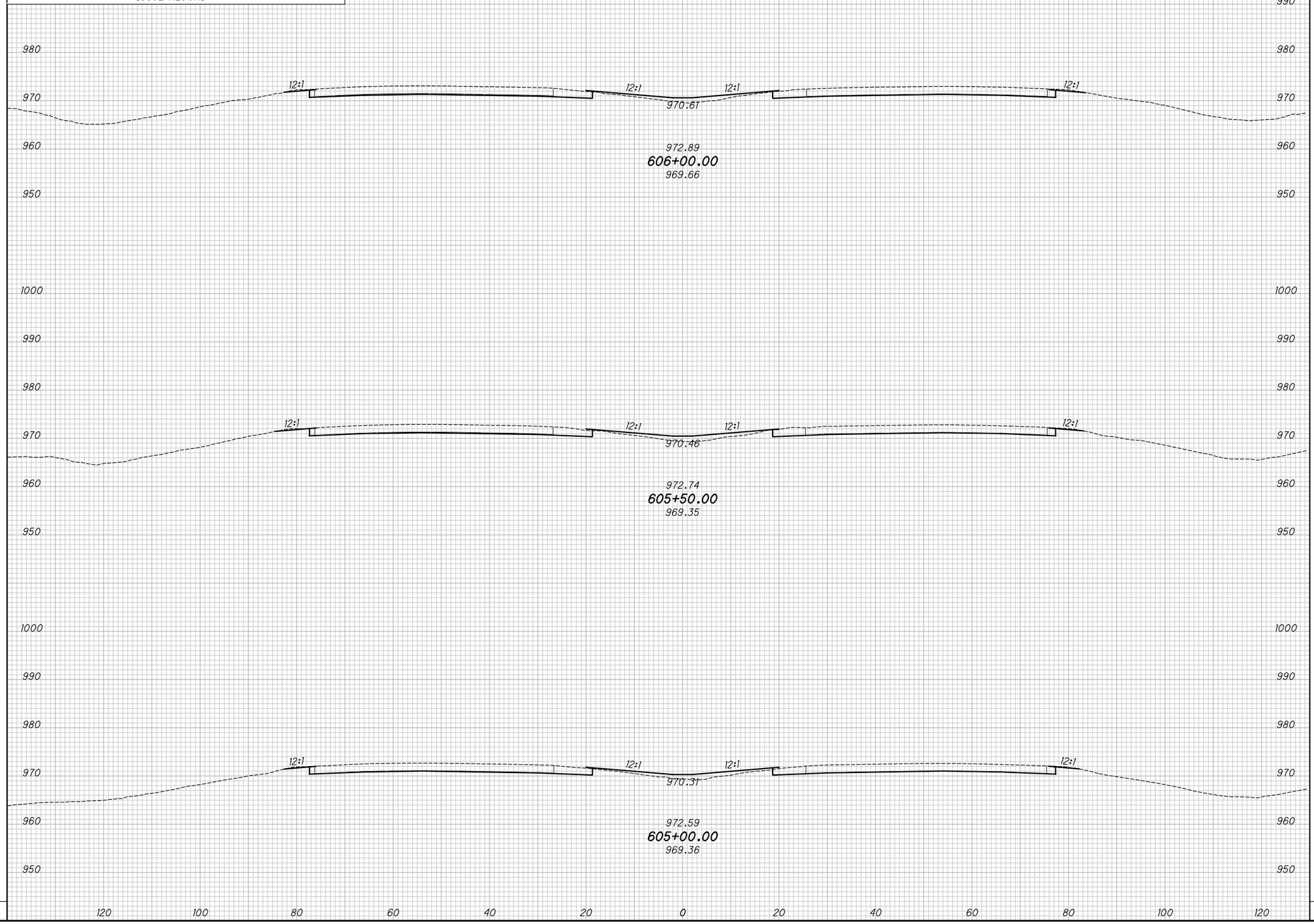
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_94 3/20/2019 9:45:38 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 605+00.00 TO STA. 606+00.00

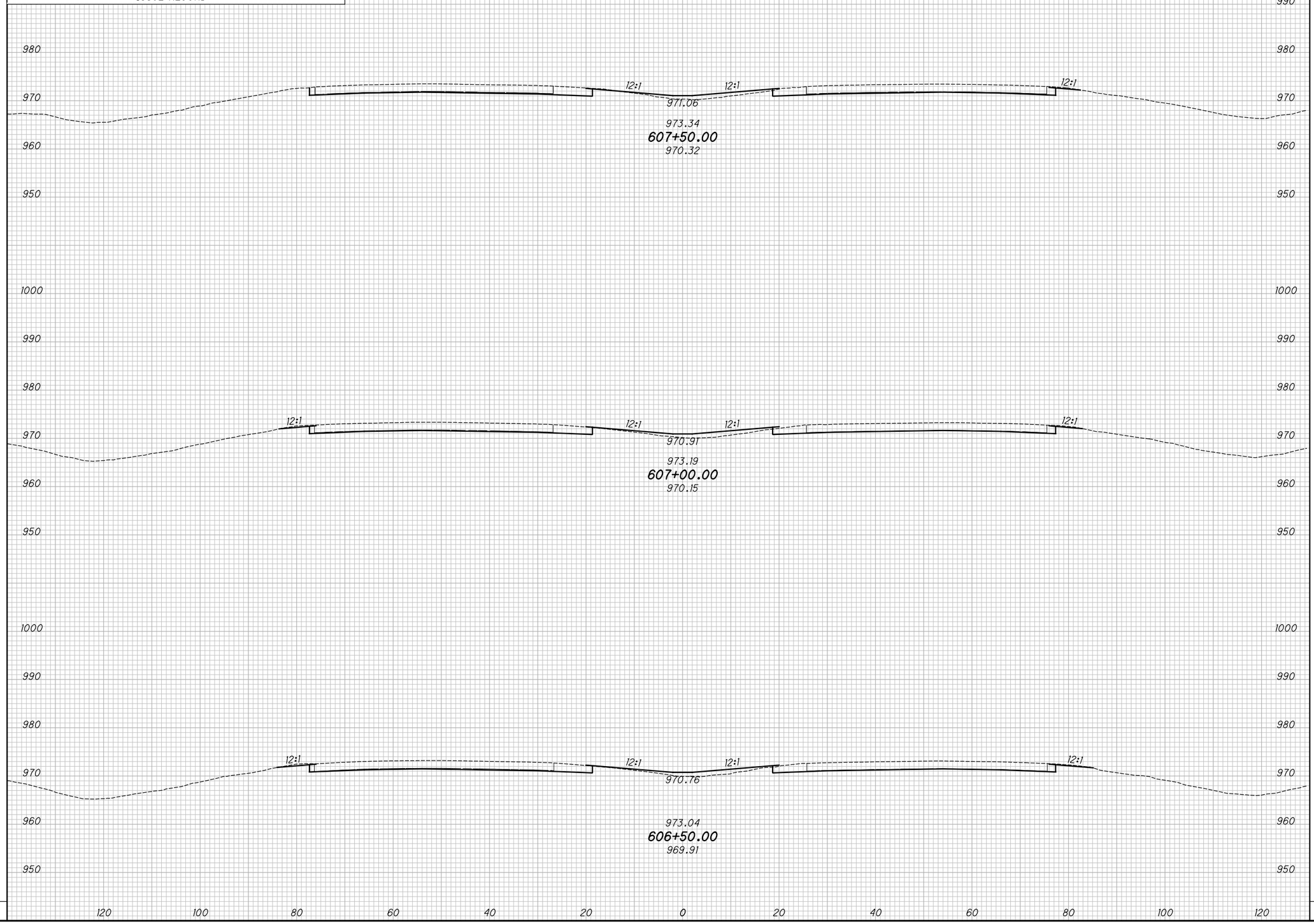
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_95 3/20/2019 9:45:40 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 606+50.00 TO STA. 607+50.00

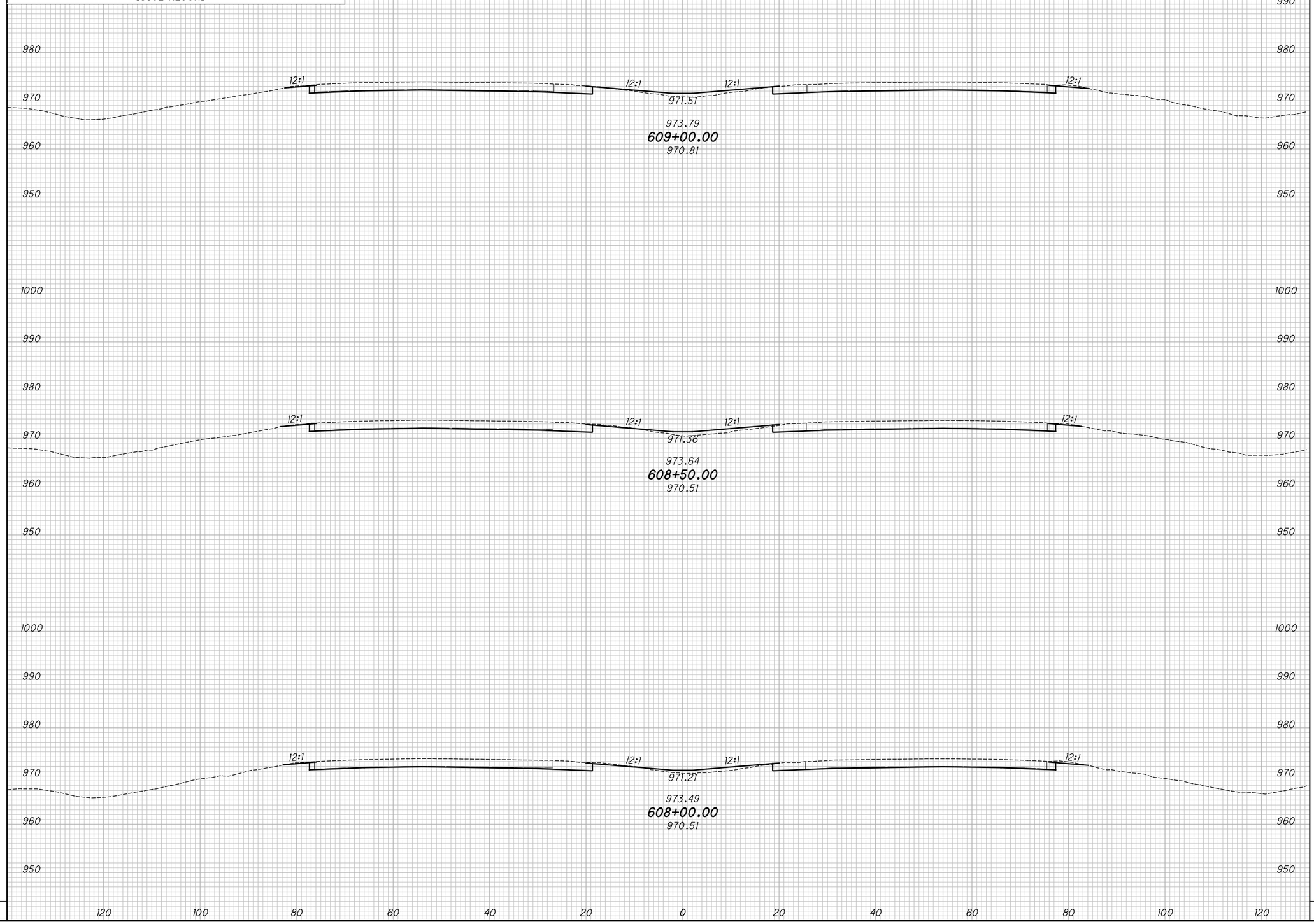
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_96 3/20/2019 9:45:42 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 608+00.00 TO STA. 609+00.00

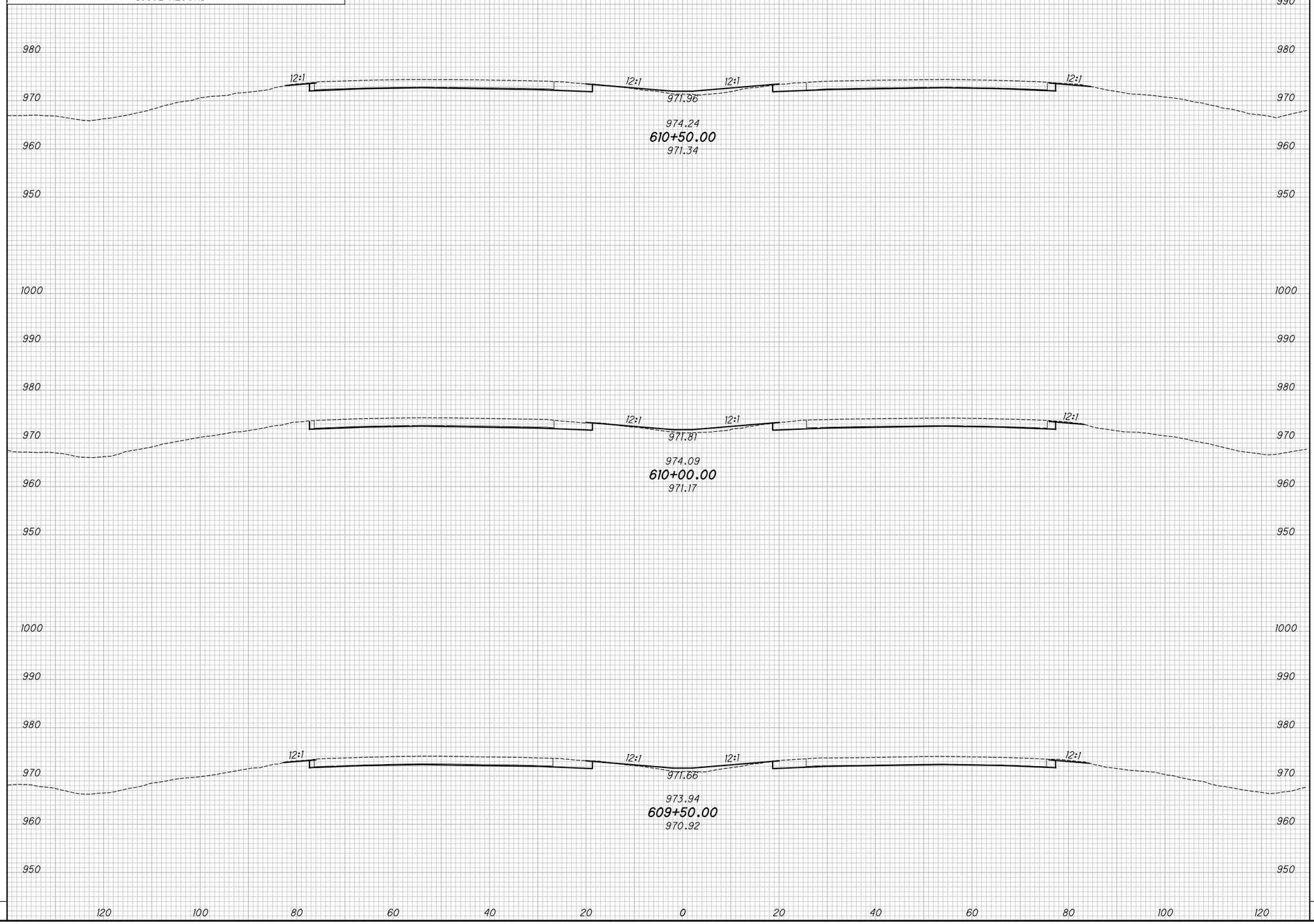
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_97 3/20/2019 9:45:44 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 609+50.00 TO STA. 610+50.00

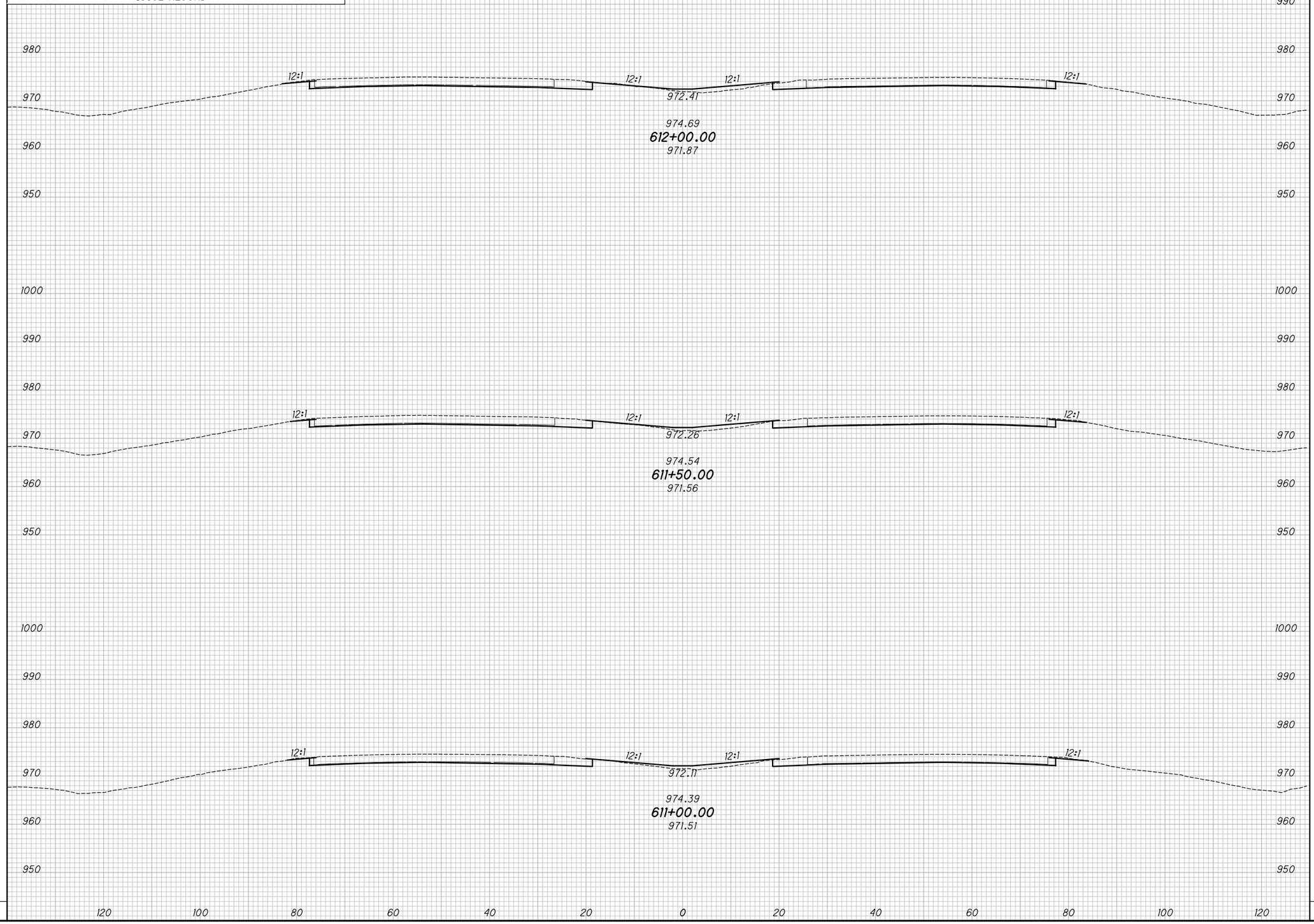
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_98 3/20/2019 9:45:46 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 611+00.00 TO STA. 612+00.00

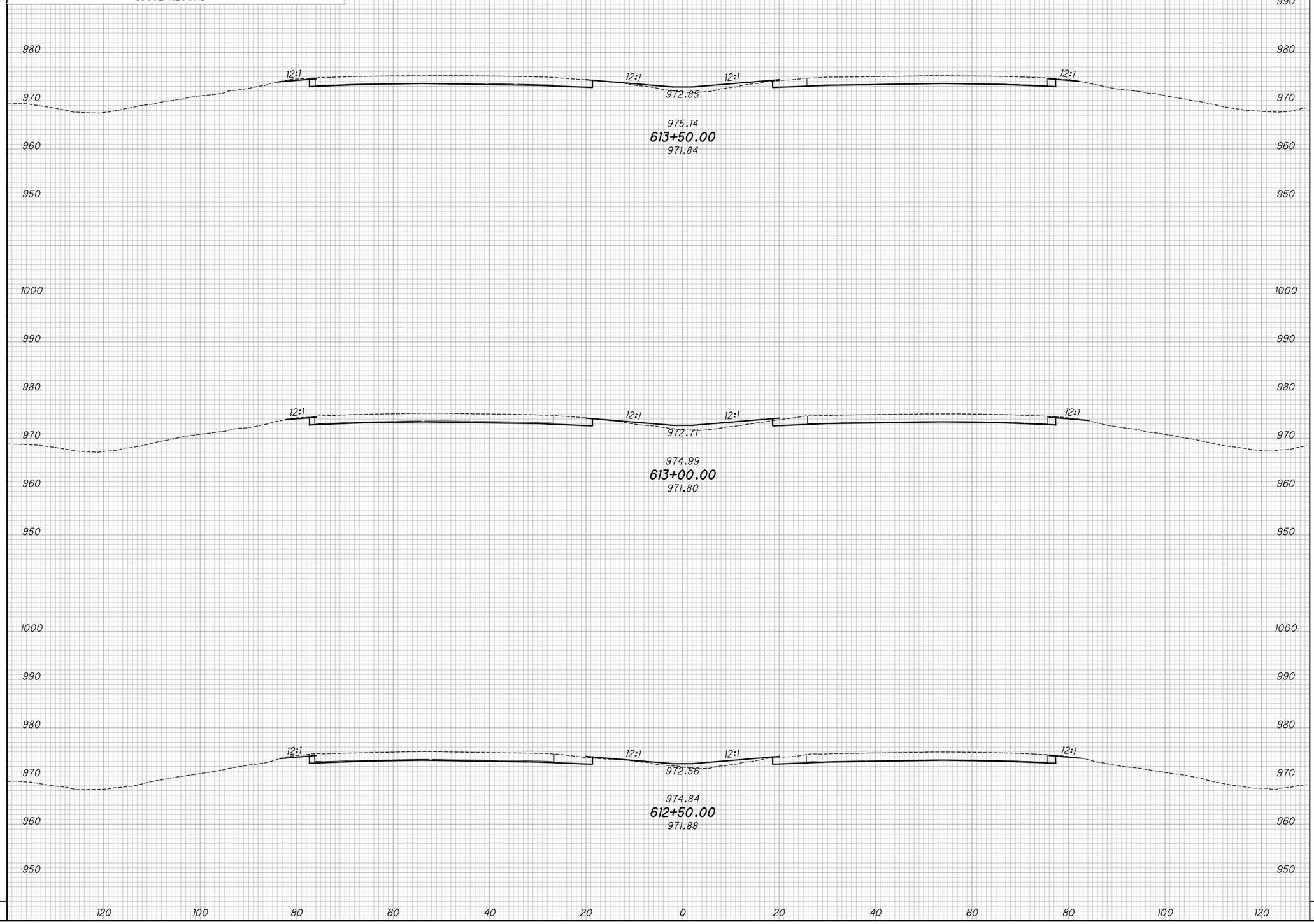
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_99 3/20/2019 9:45:48 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 612+50.00 TO STA. 613+50.00

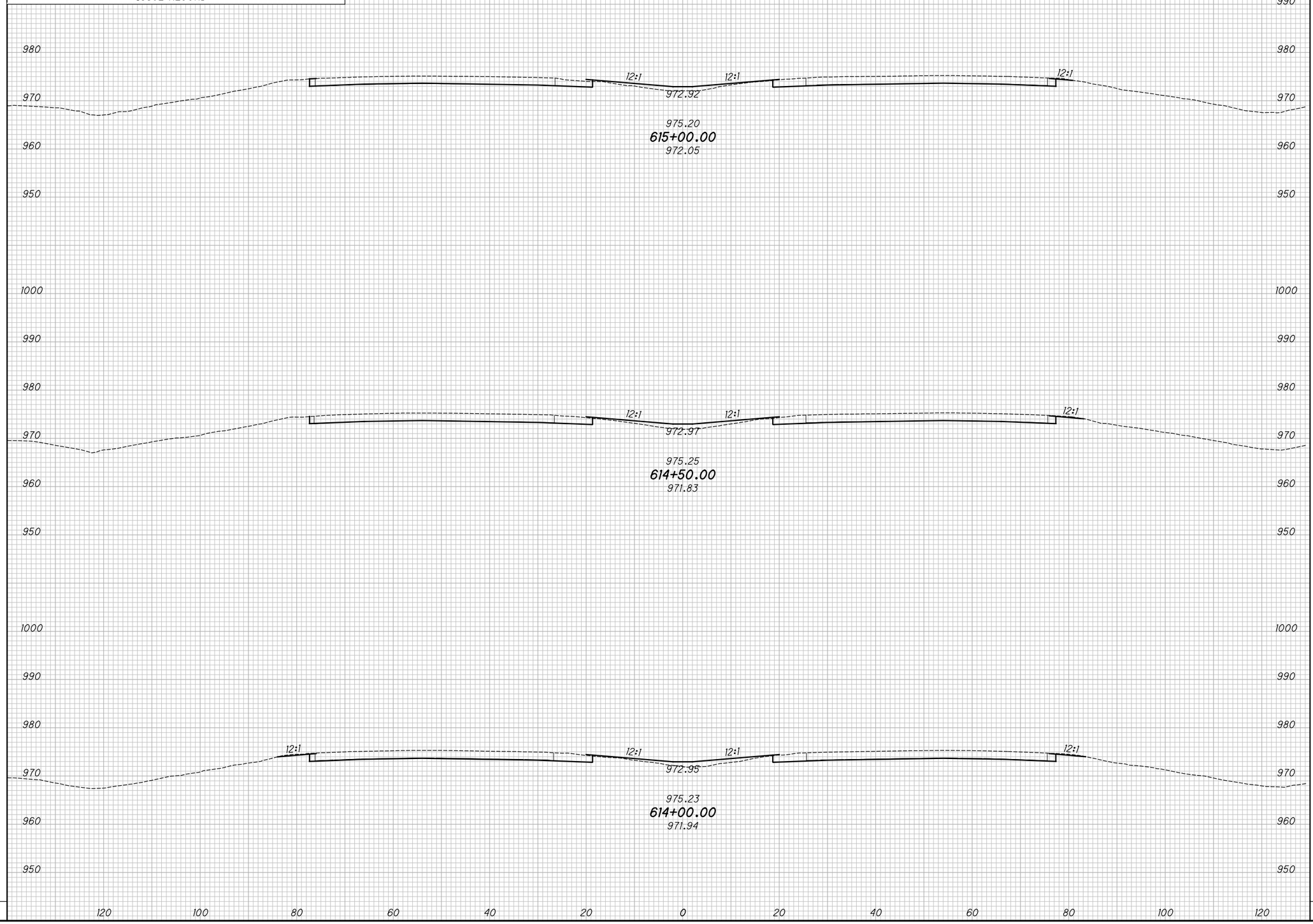
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_100 3/20/2019 9:45:50 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 614+00.00 TO STA. 615+00.00

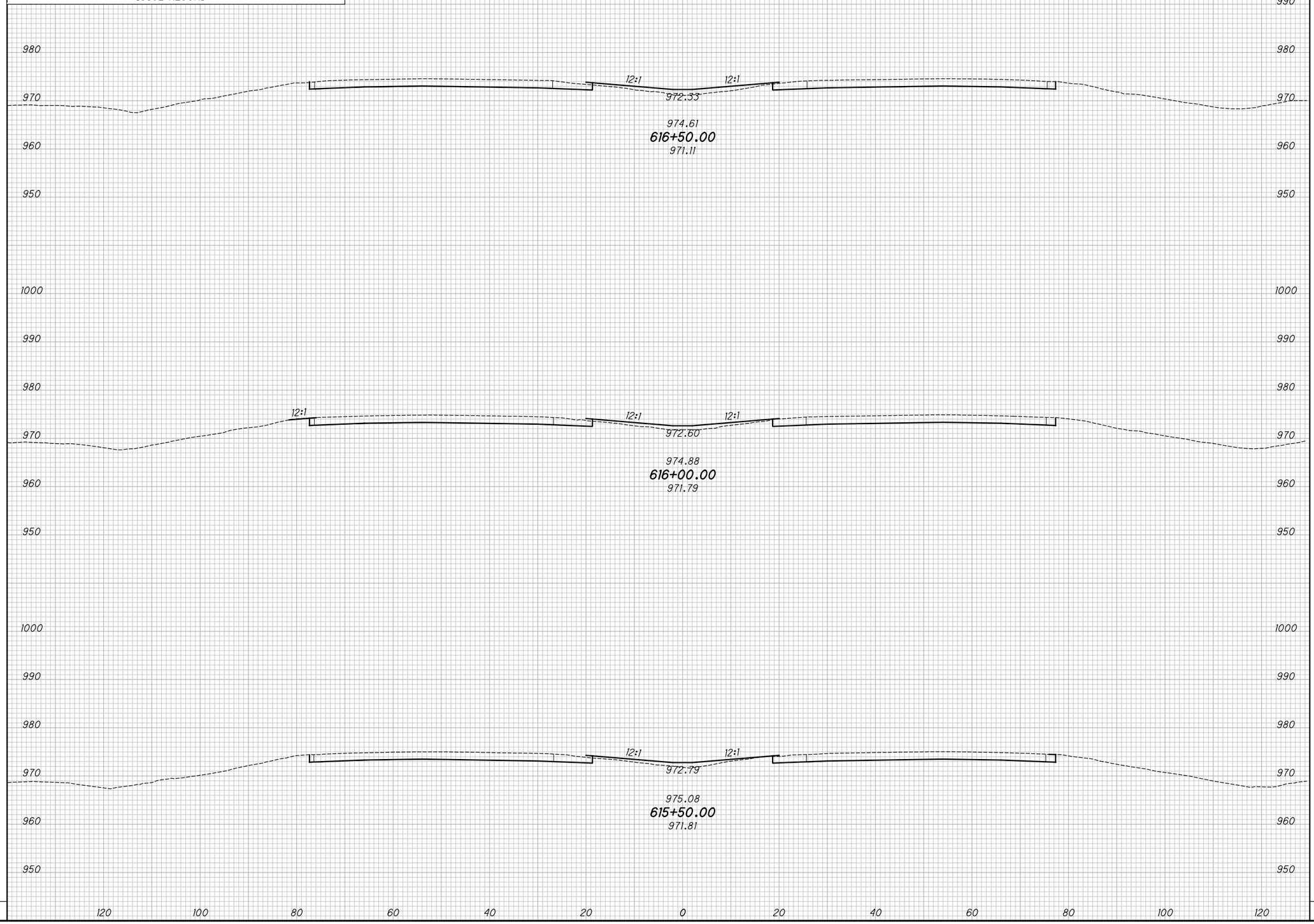
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_101 3/20/2019 9:45:52 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

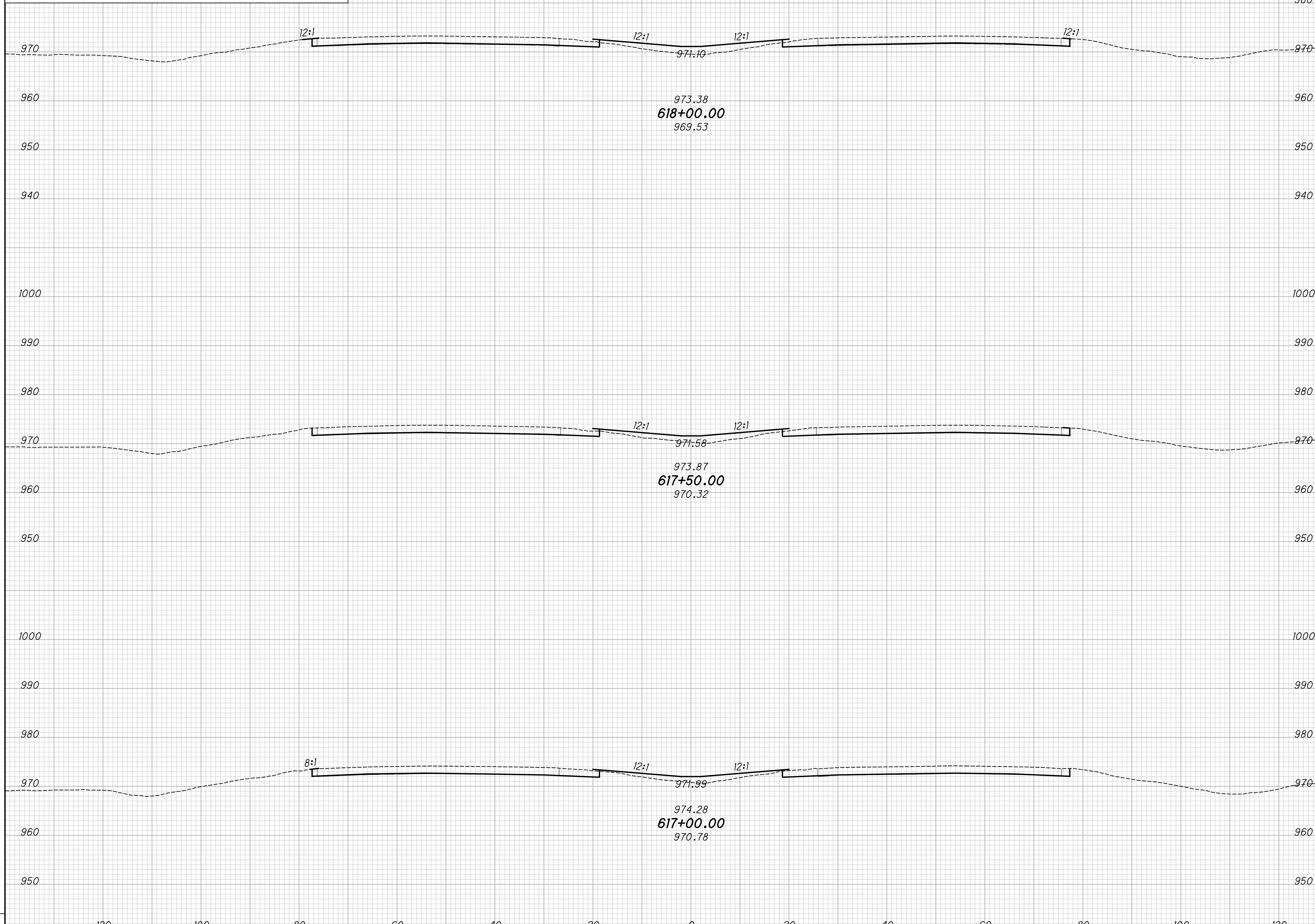
CROSS SECTIONS - IR 70
STA. 615+50.00 TO STA. 616+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_102 3/20/2019 9:45:54 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 617+00.00 TO STA. 618+00.00

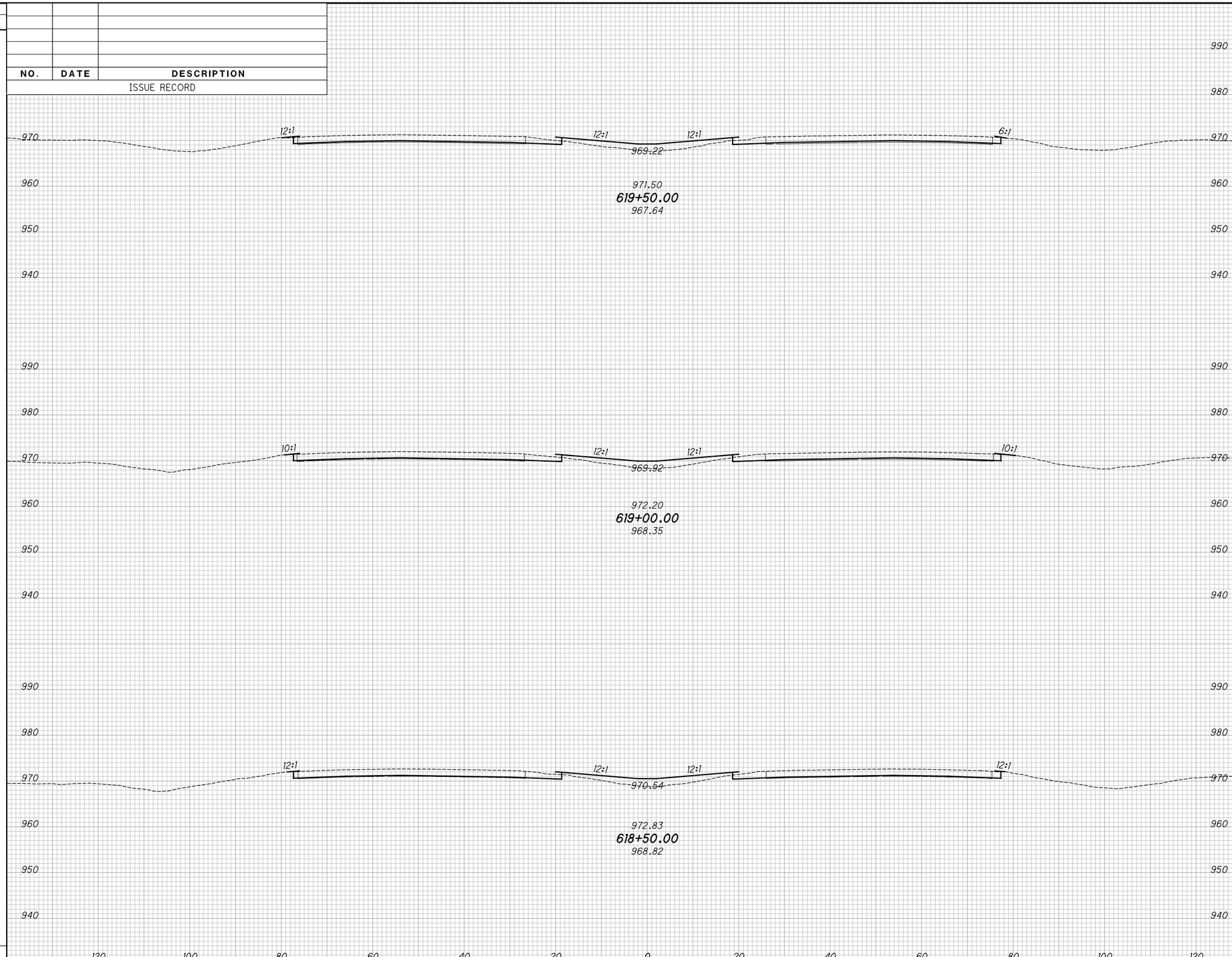
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_103 3/20/2019 9:45:56 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 618+50.00 TO STA. 619+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_104 3/20/2019 9:45:57 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

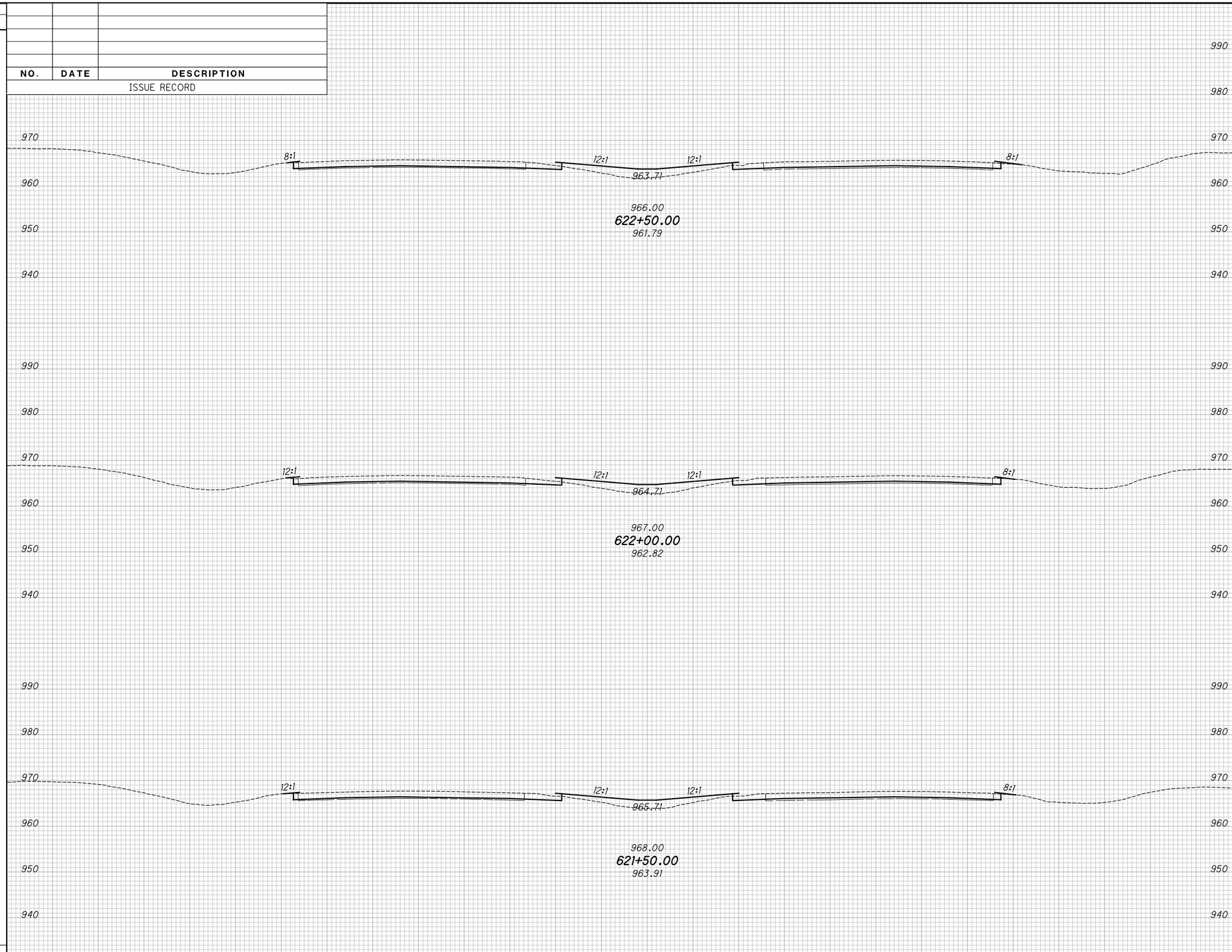
STA. 620+00.00 TO STA. 621+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_105 3/20/2019 9:45:59 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 621+50.00 TO STA. 622+50.00

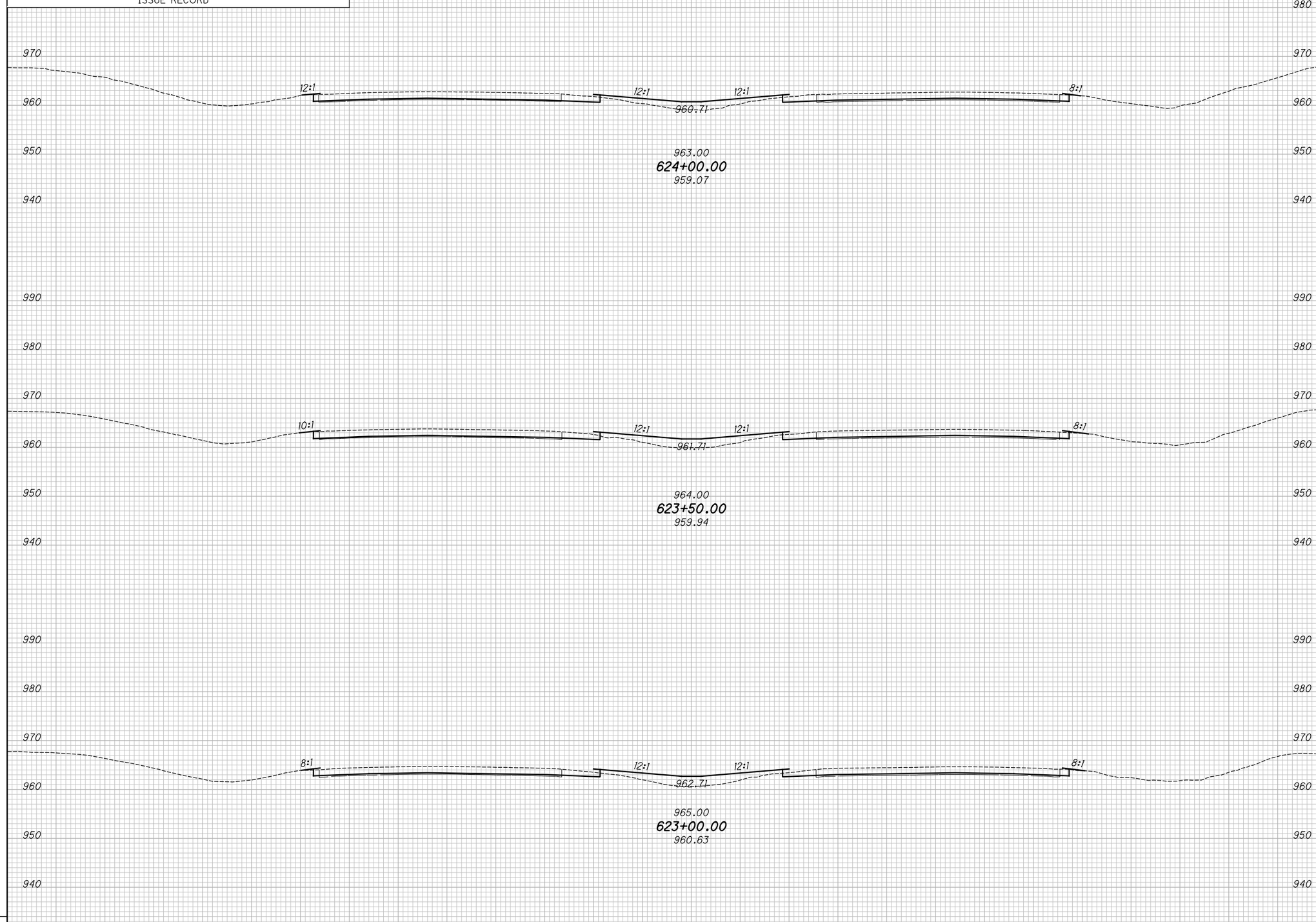
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_106 3/20/2019 9:46:01 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 623+00.00 TO STA. 624+00.00

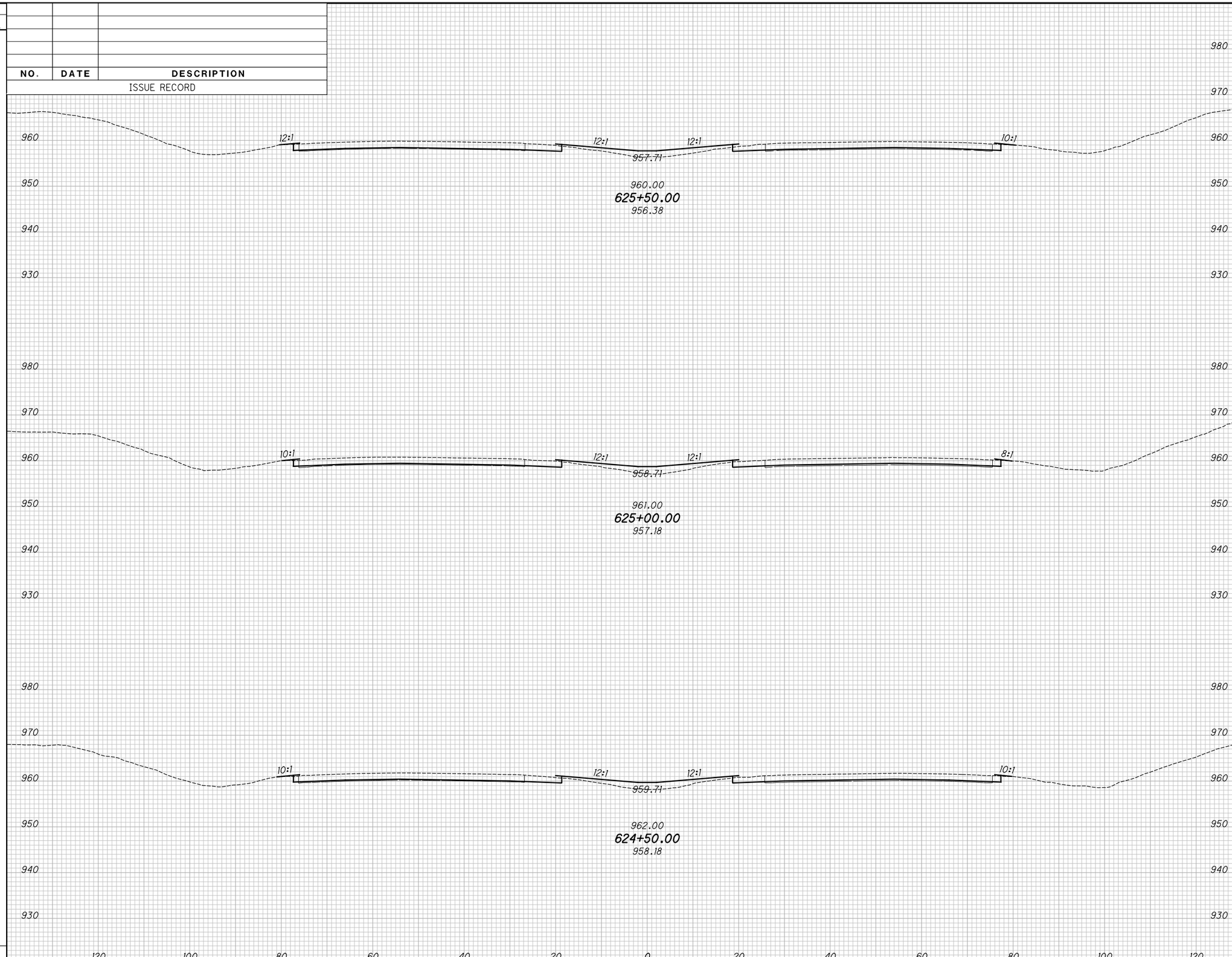
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_107 3/20/2019 9:46:03 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

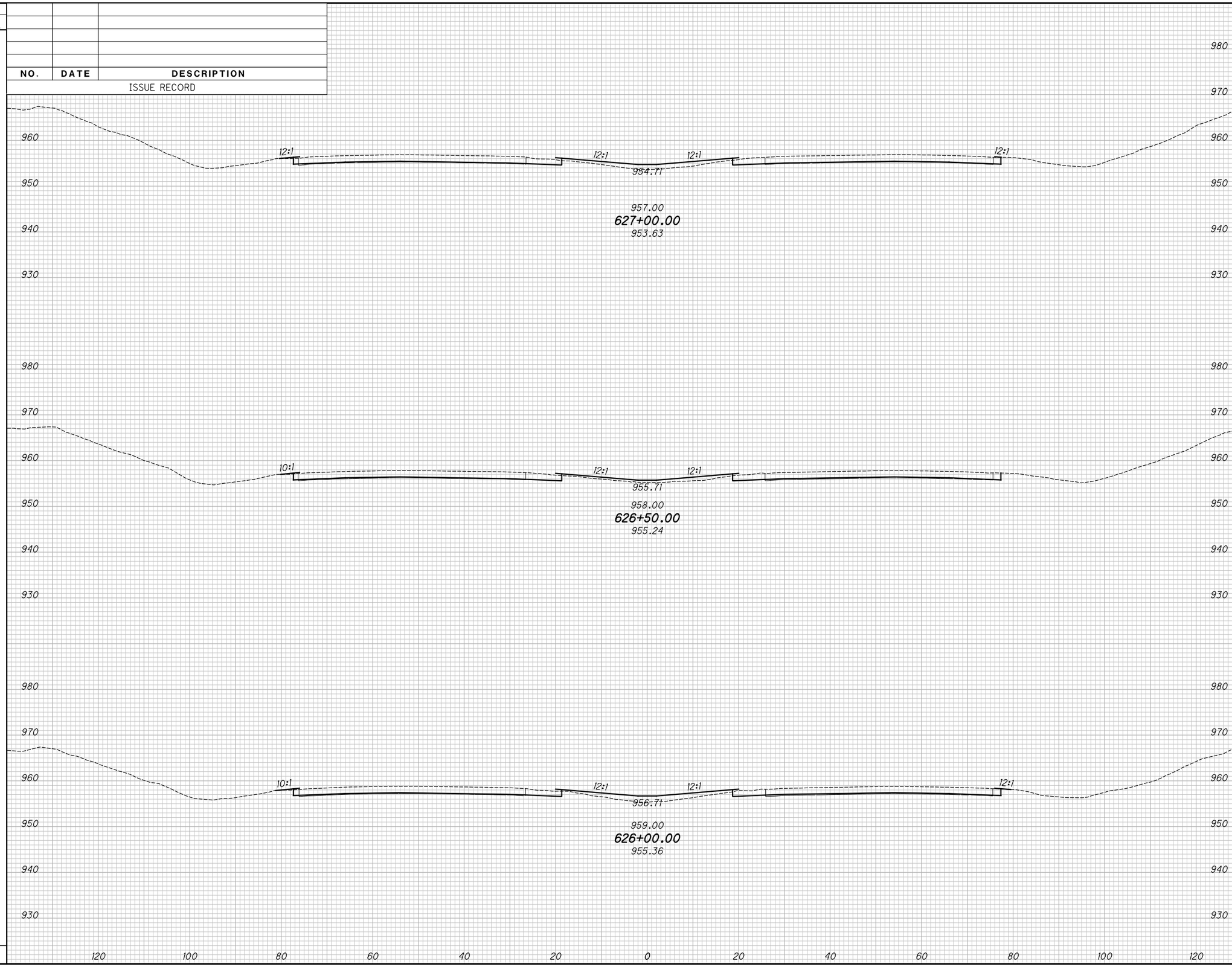
STA. 624+50.00 TO STA. 625+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_108 3/20/2019 9:46:05 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

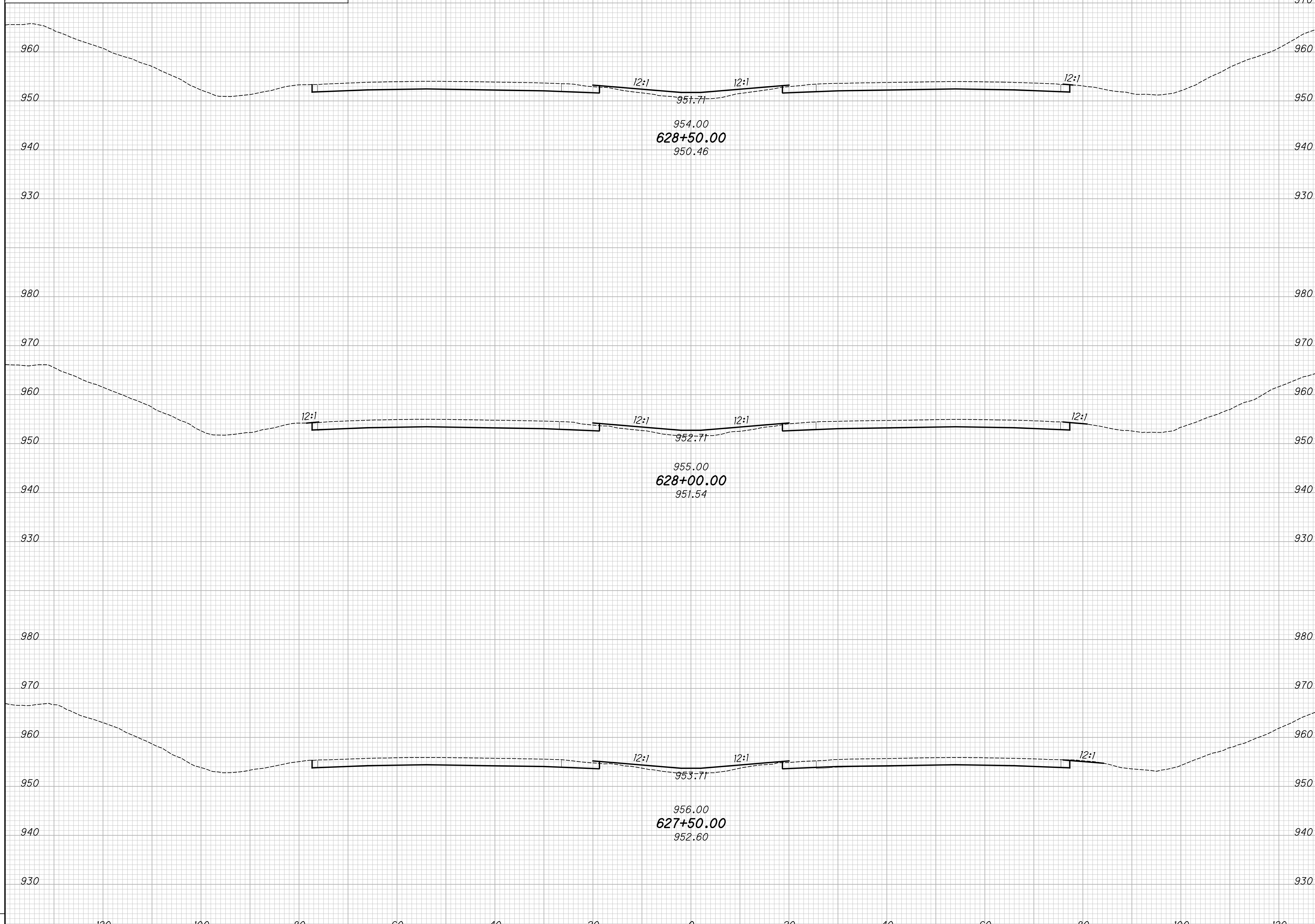
CROSS SECTIONS - IR 70
STA. 626+00.00 TO STA. 627+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_109 3/20/2019 9:46:07 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF

CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 627+50.00 TO STA. 628+50.00

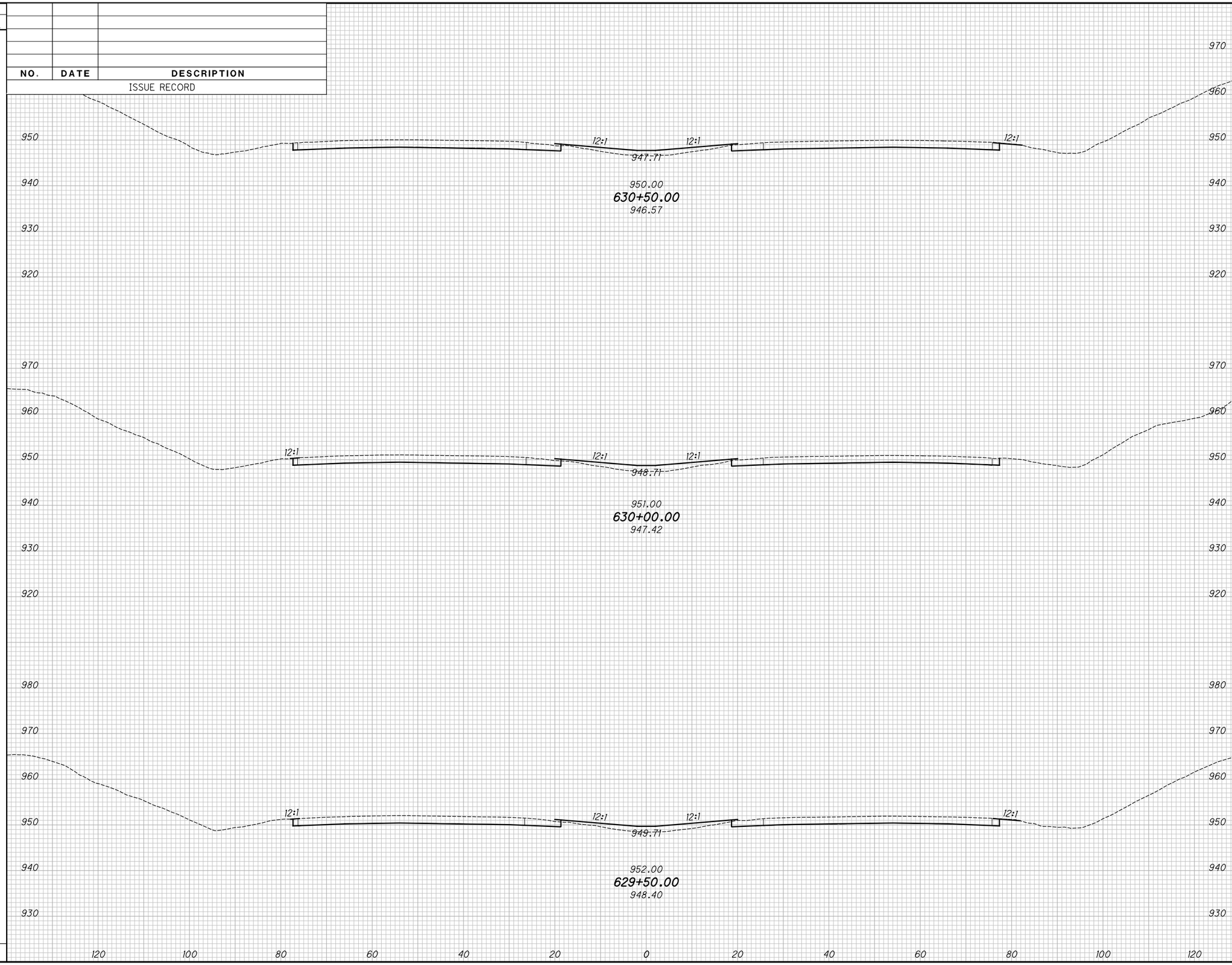
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_110 3/20/2019 9:46:09 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

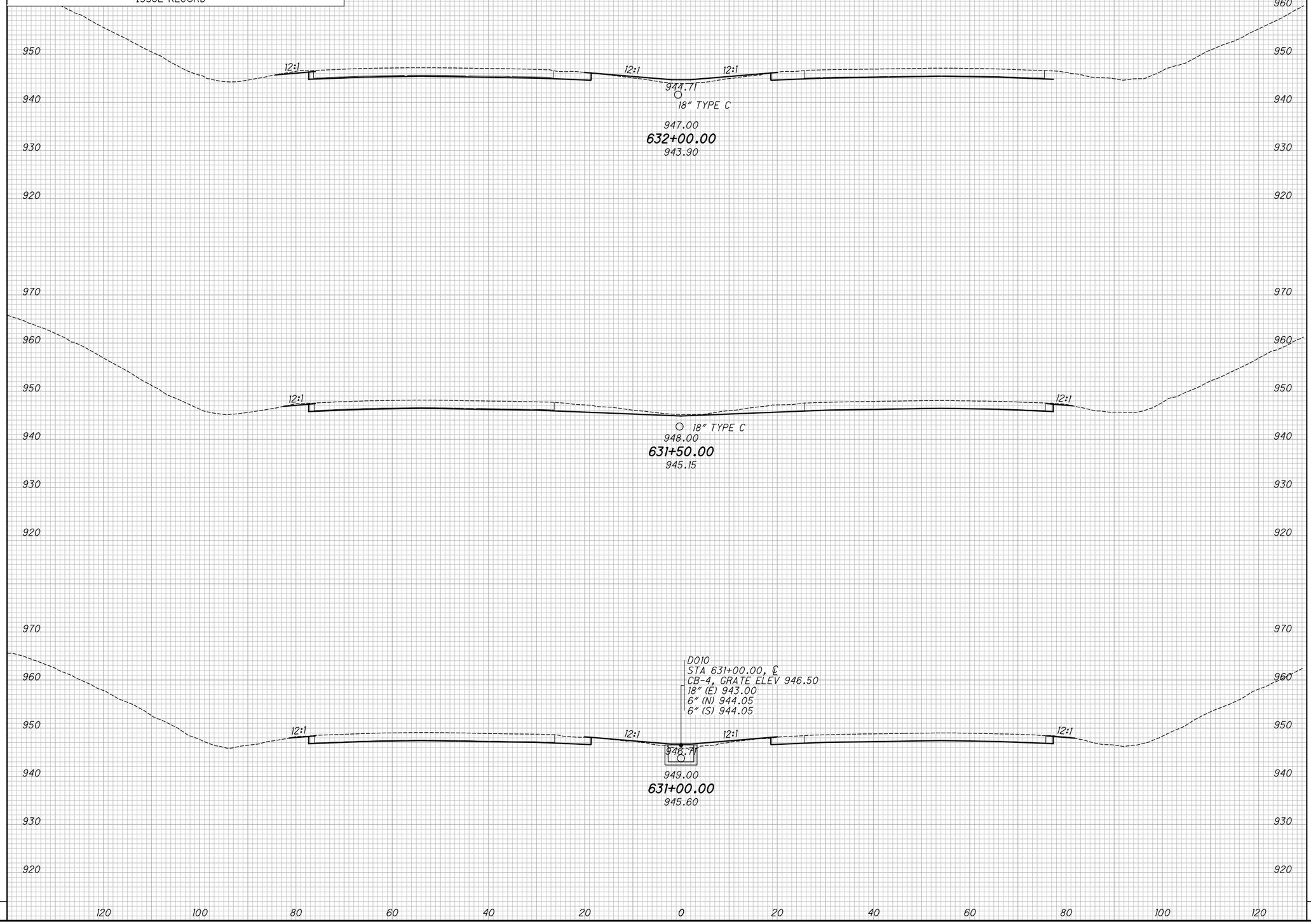
STA. 629+50.00 TO STA. 630+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_III 3/20/2019 9:46:11 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 631+00.00 TO STA. 632+00.00

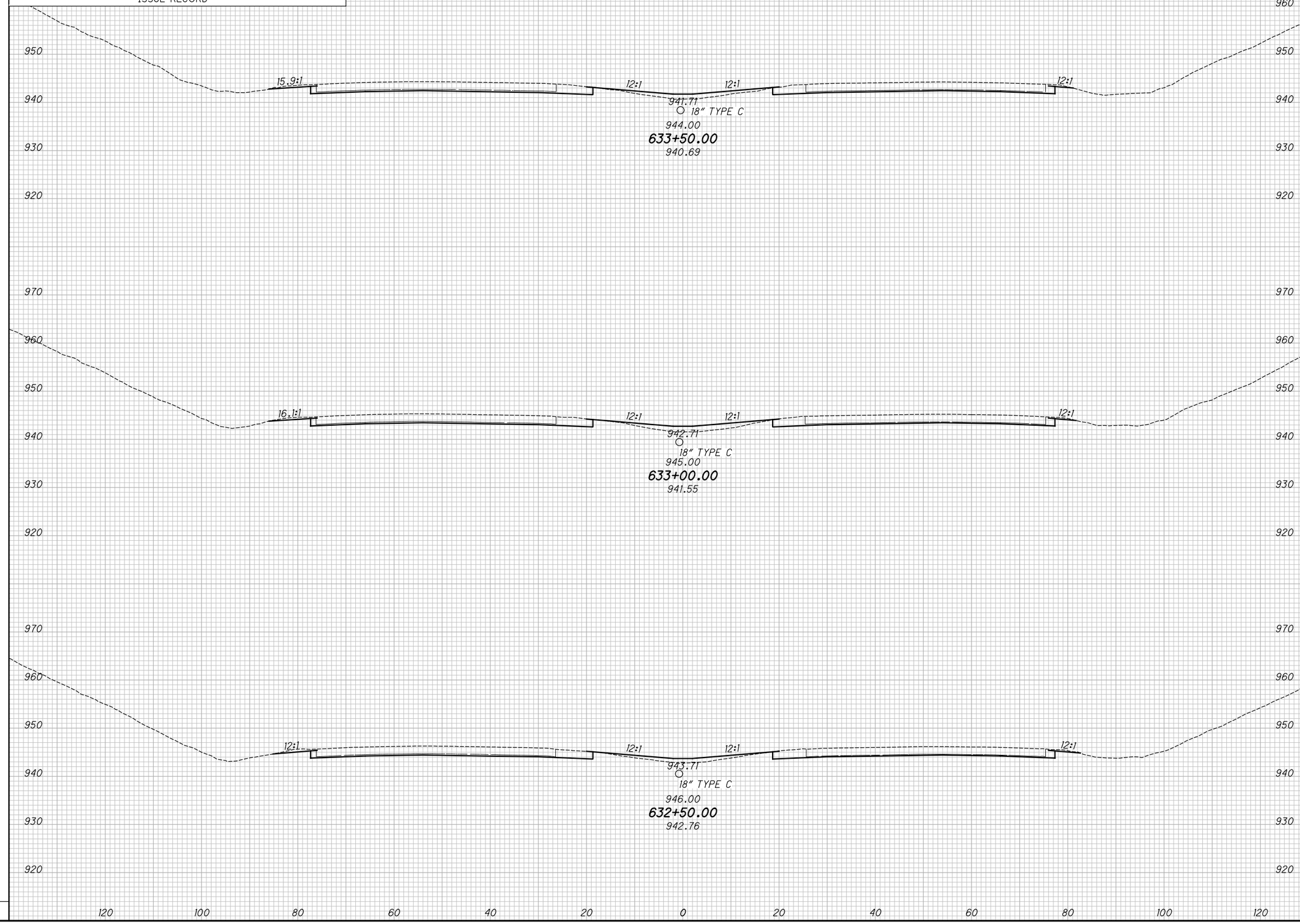
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_ll2 3/20/2019 9:46:13 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 632+50.00 TO STA. 633+50.00

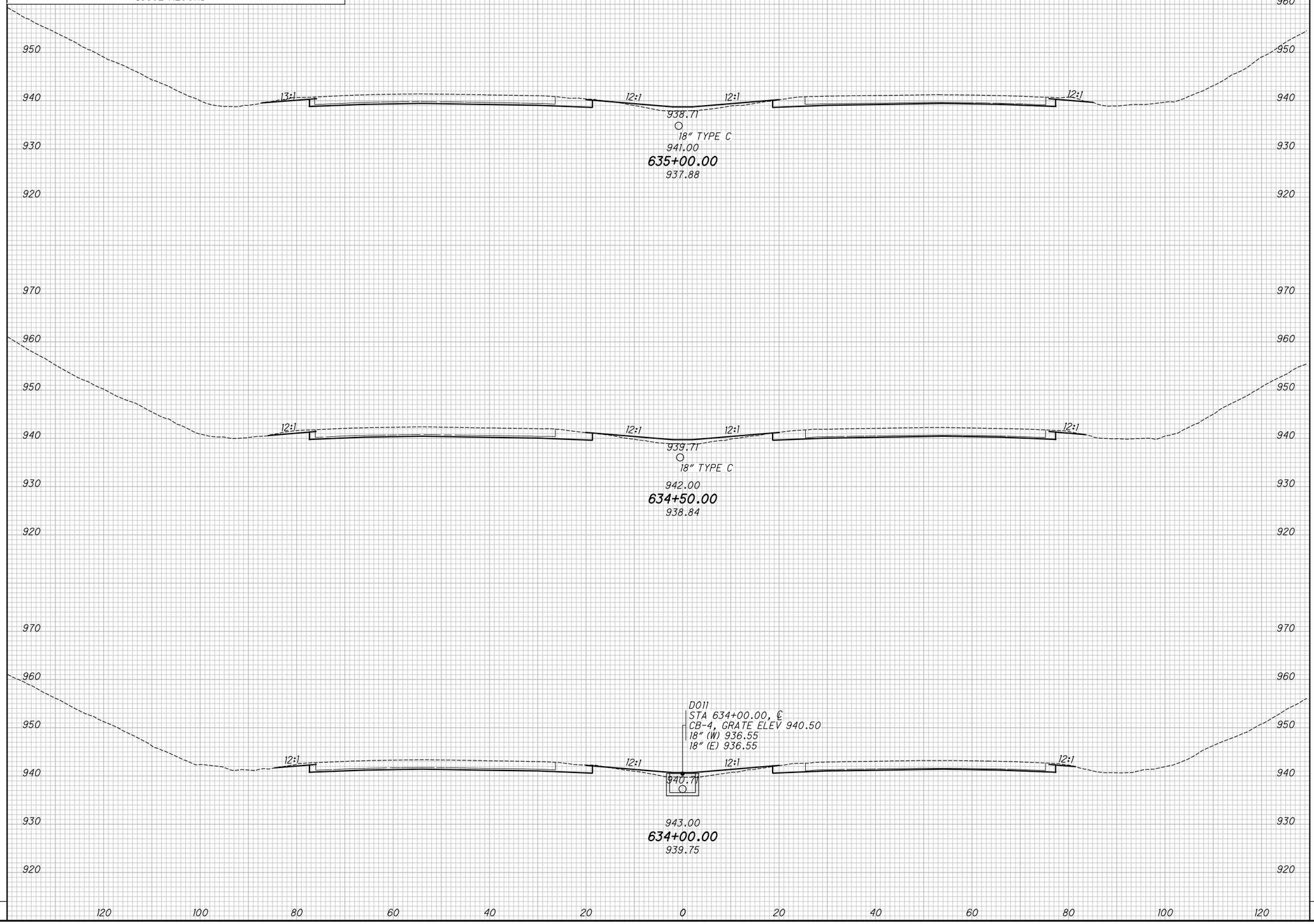
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_113 3/20/2019 9:46:15 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

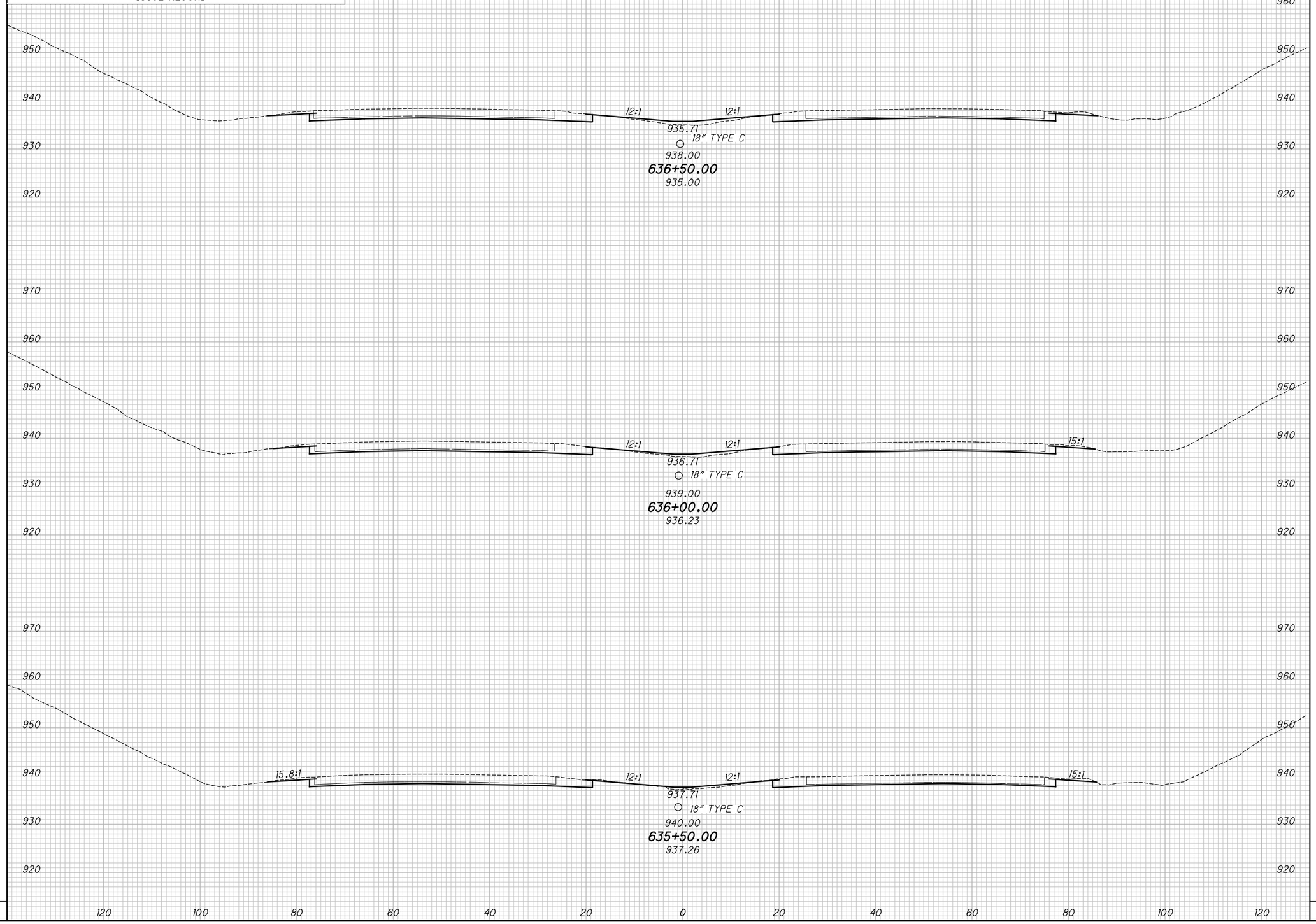
CROSS SECTIONS - IR 70
STA. 634+00.00 TO STA. 635+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_ll4 3/20/2019 9:46:17 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 635+50.00 TO STA. 636+50.00

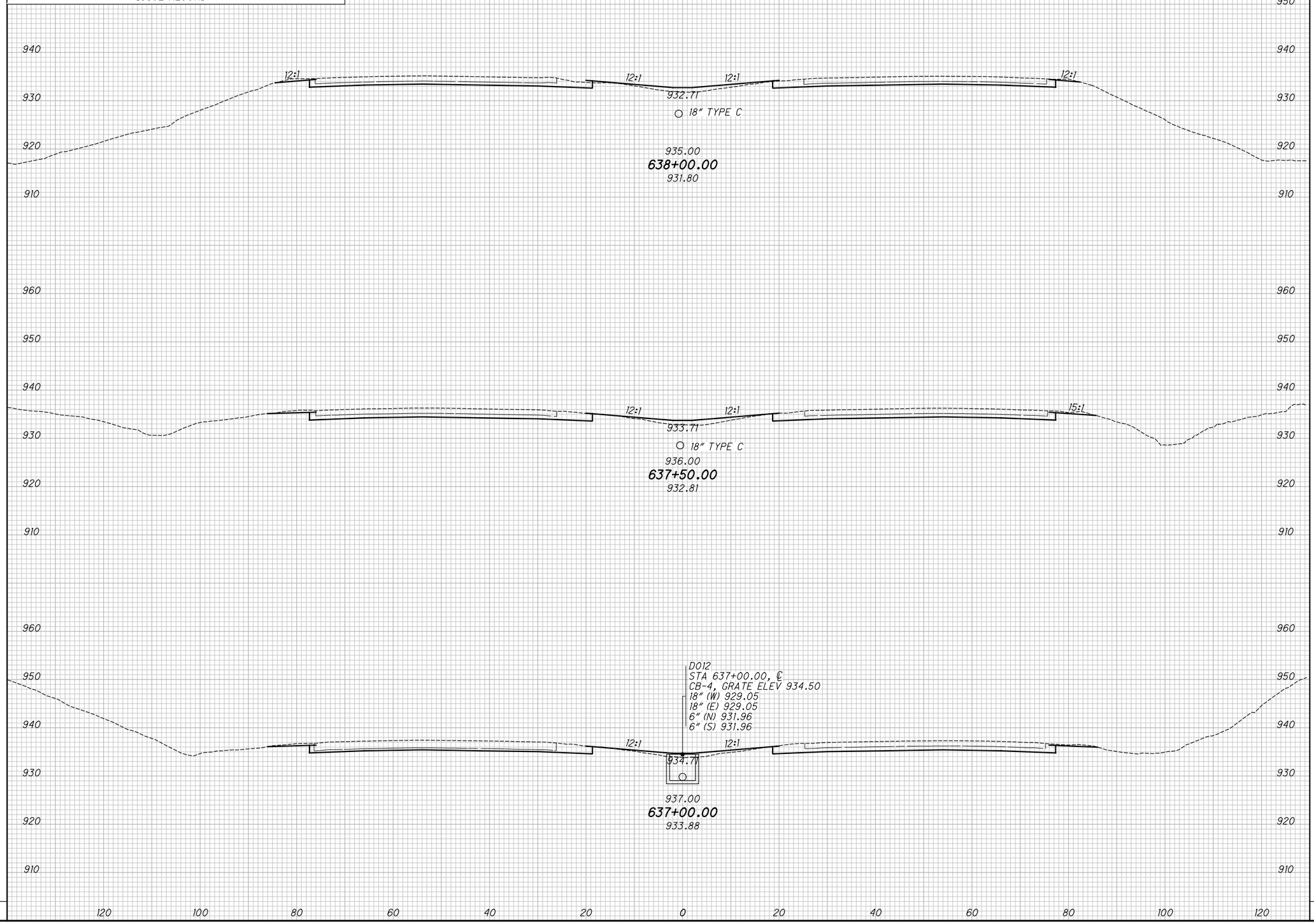
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_ll5 3/20/2019 9:46:19 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 637+00.00 TO STA. 638+00.00

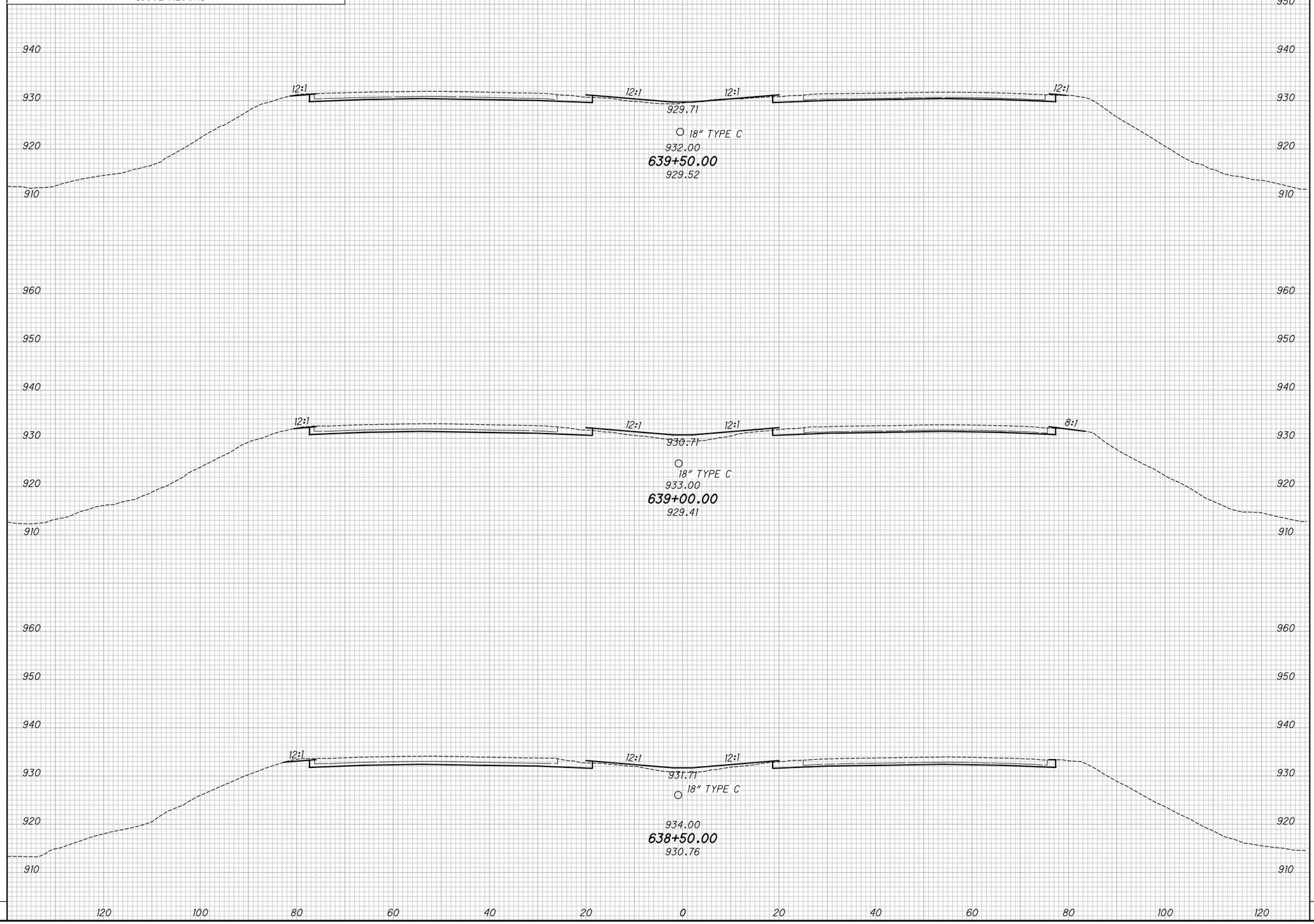
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_116 3/20/2019 9:46:21 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

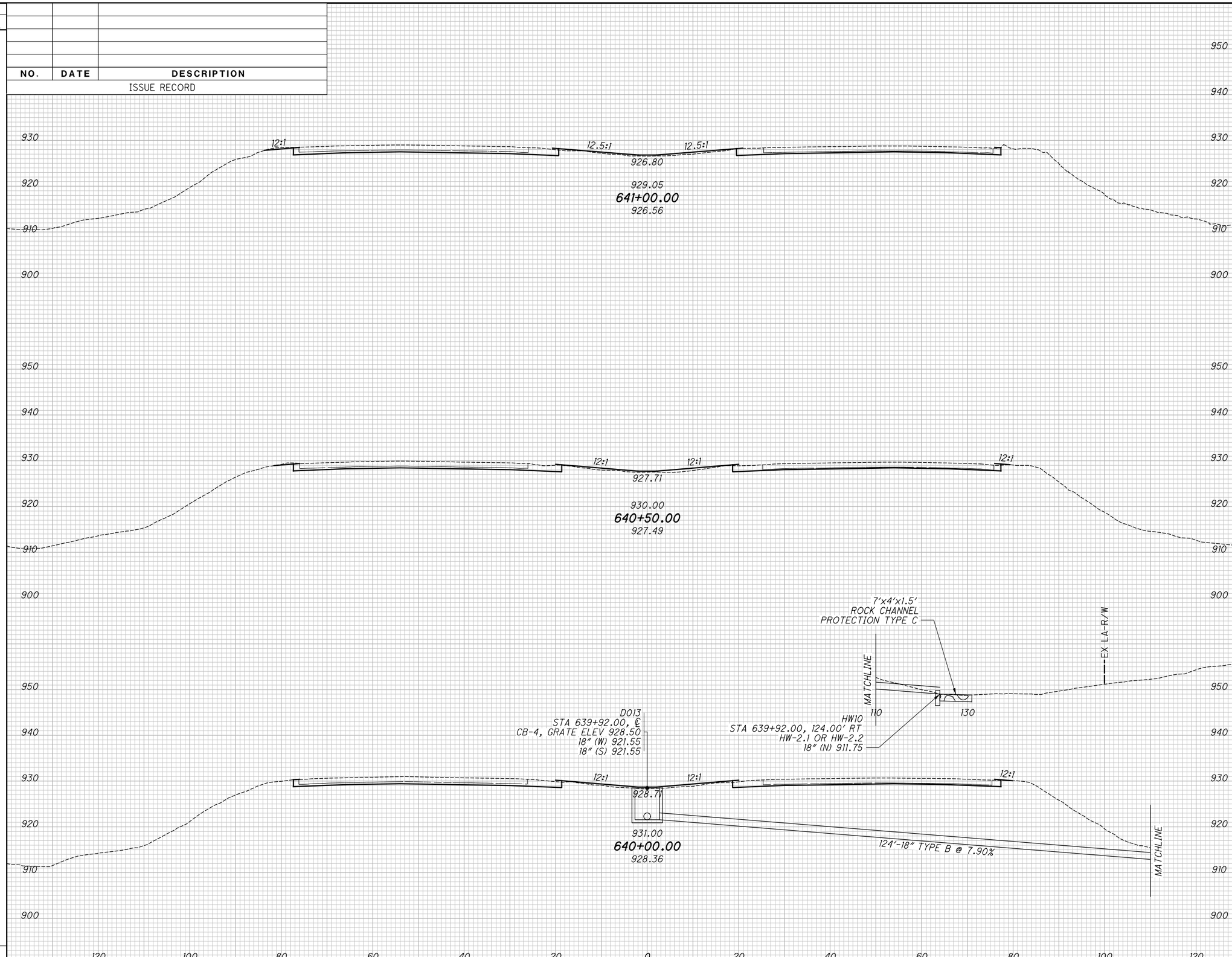
STA. 638+50.00 TO STA. 639+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_ll7 3/20/2019 9:46:23 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 640+00.00 TO STA. 641+00.00

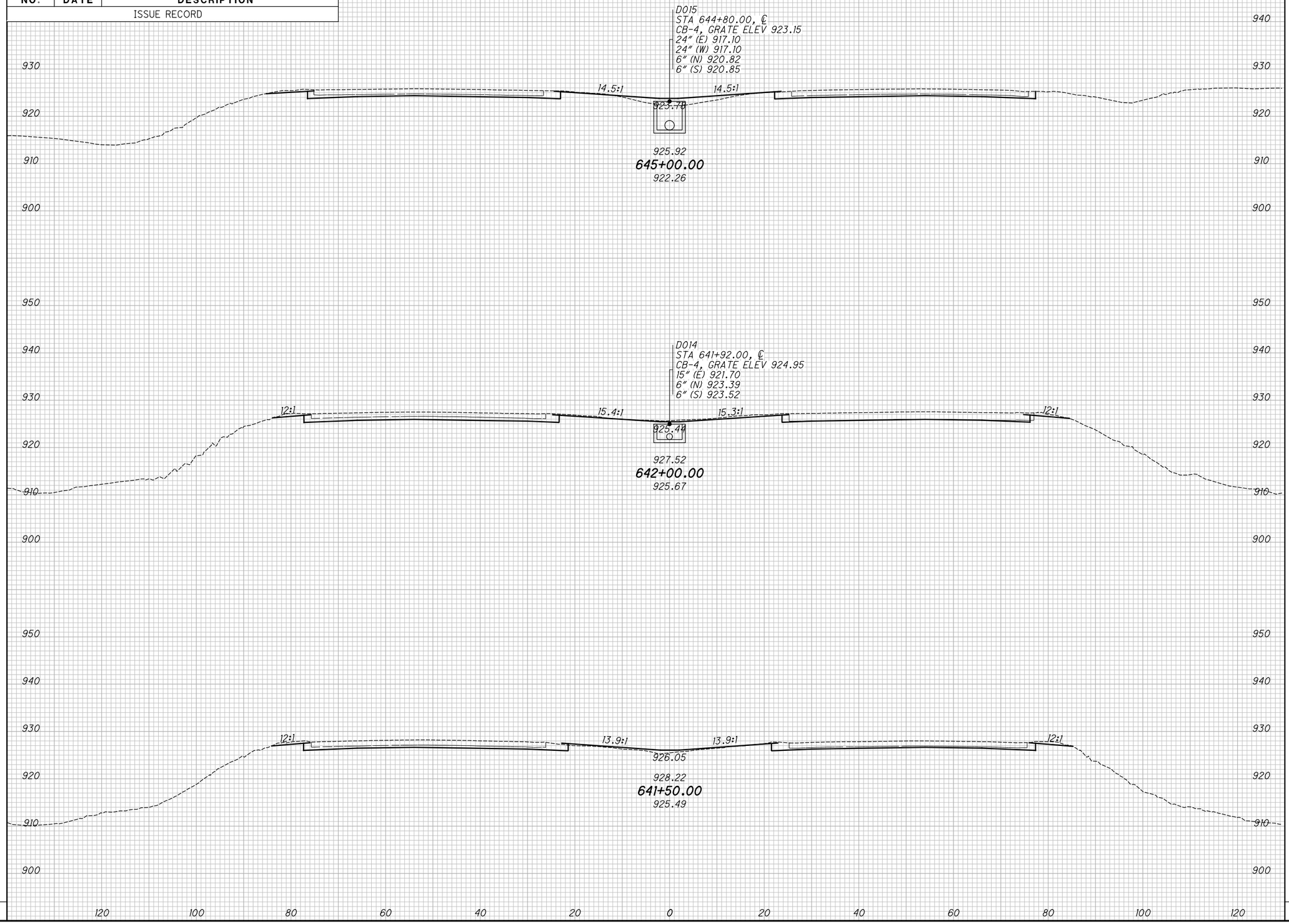
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_118 3/20/2019 9:46:25 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 641+50.00 TO STA. 645+00.00

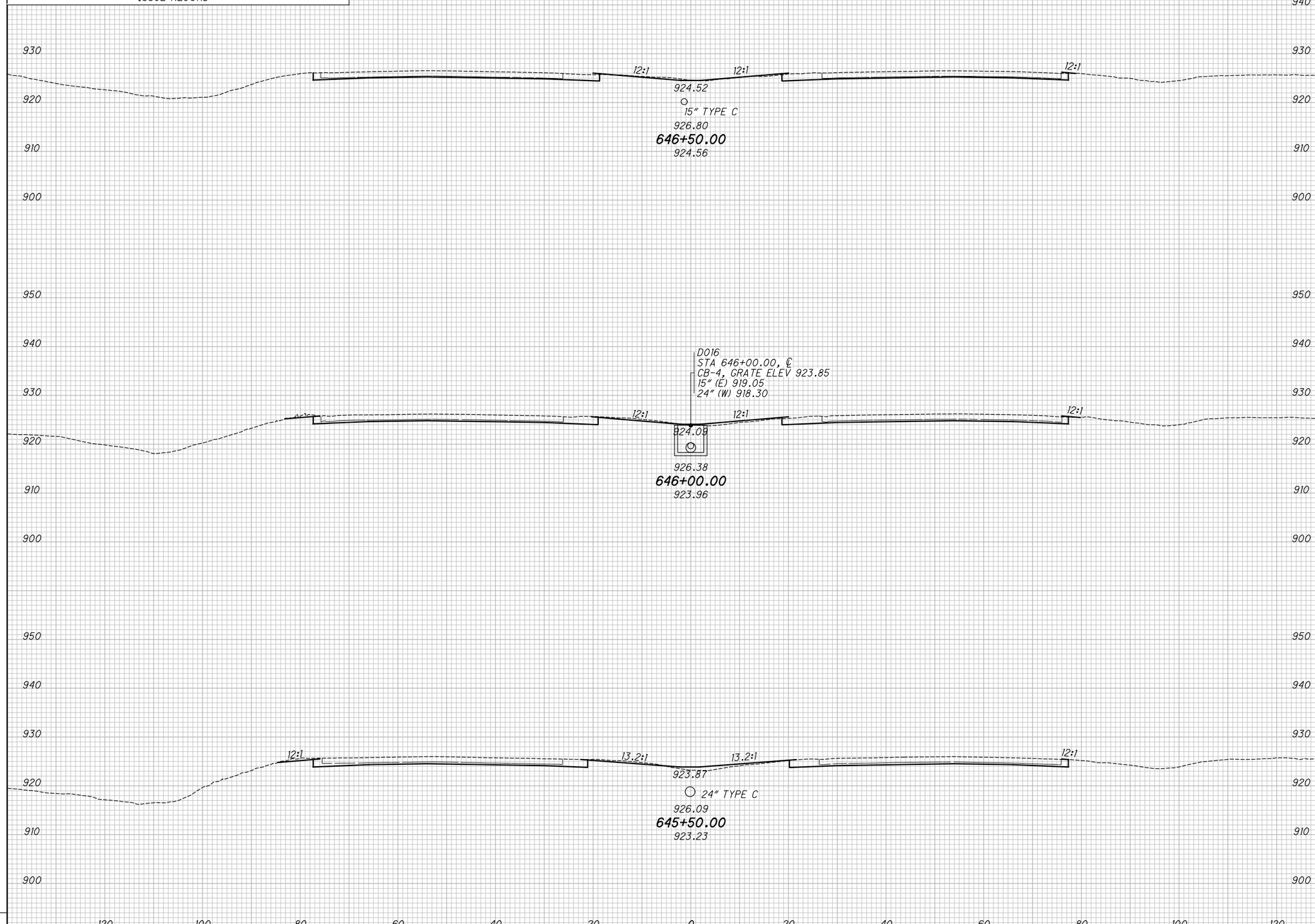
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_119 3/20/2019 9:46:27 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

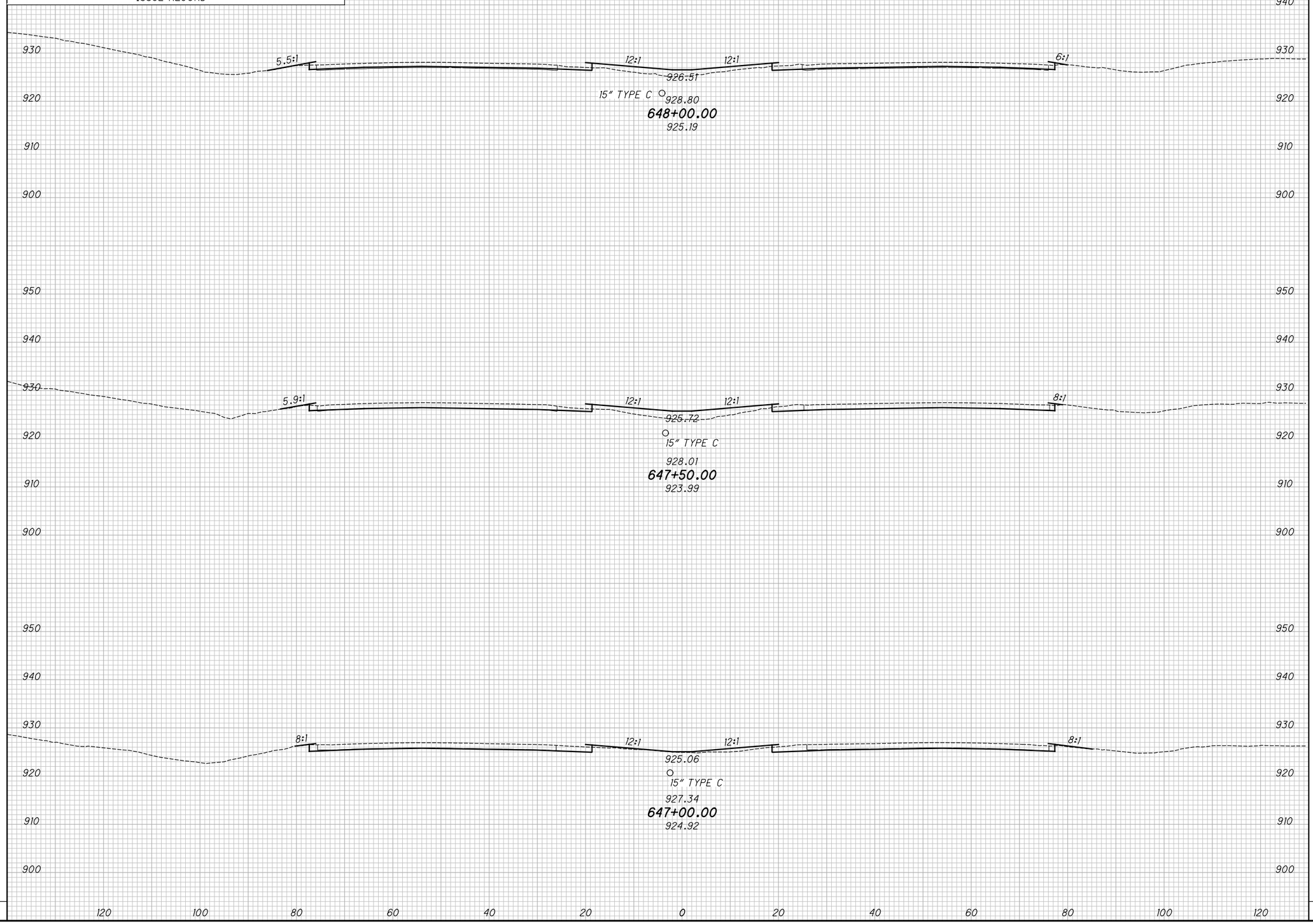
CROSS SECTIONS - IR 70
STA. 645+50.00 TO STA. 646+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_120 3/20/2019 9:46:29 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

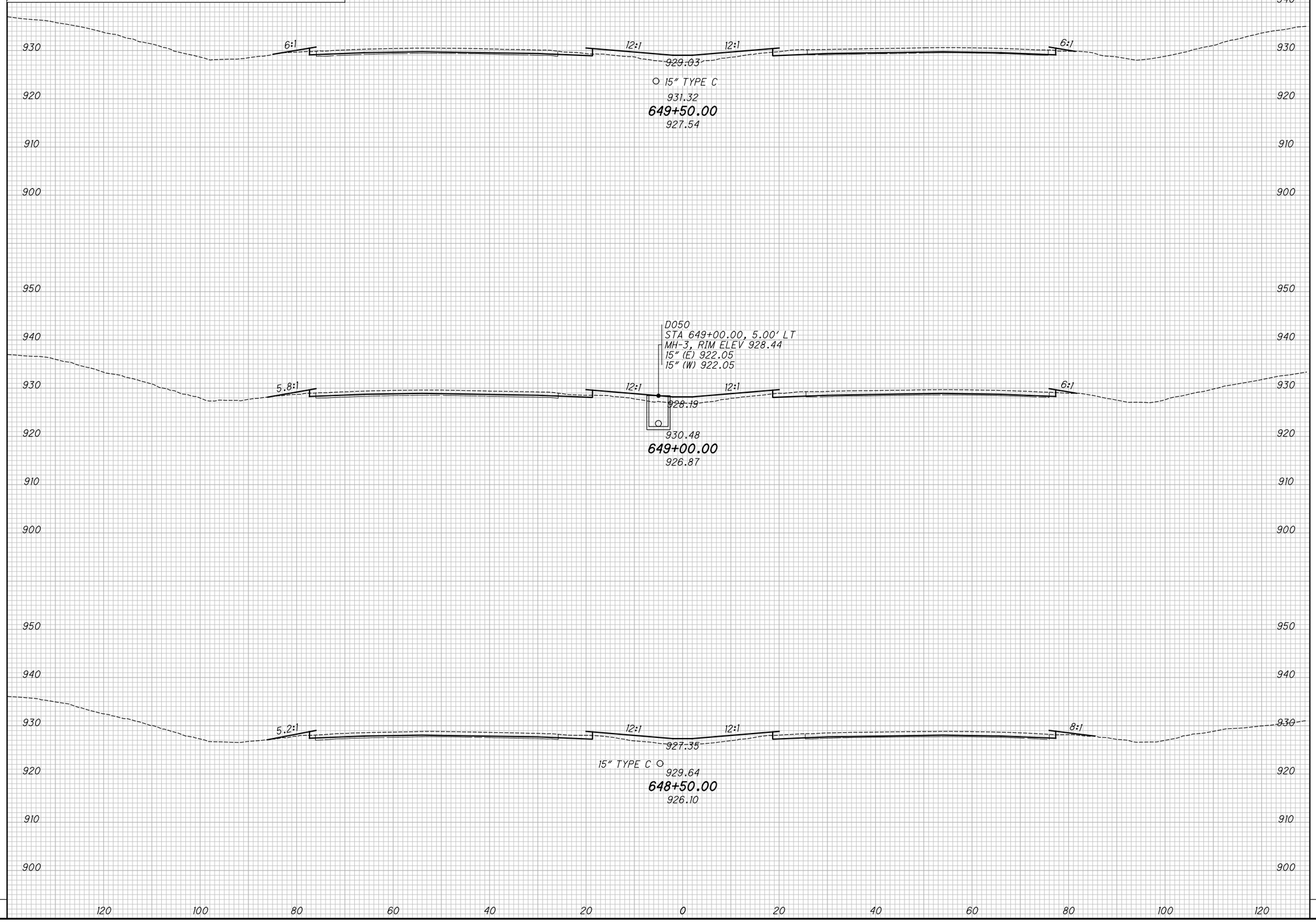
CROSS SECTIONS - IR 70
STA. 647+00.00 TO STA. 648+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_121 3/20/2019 9:46:31 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

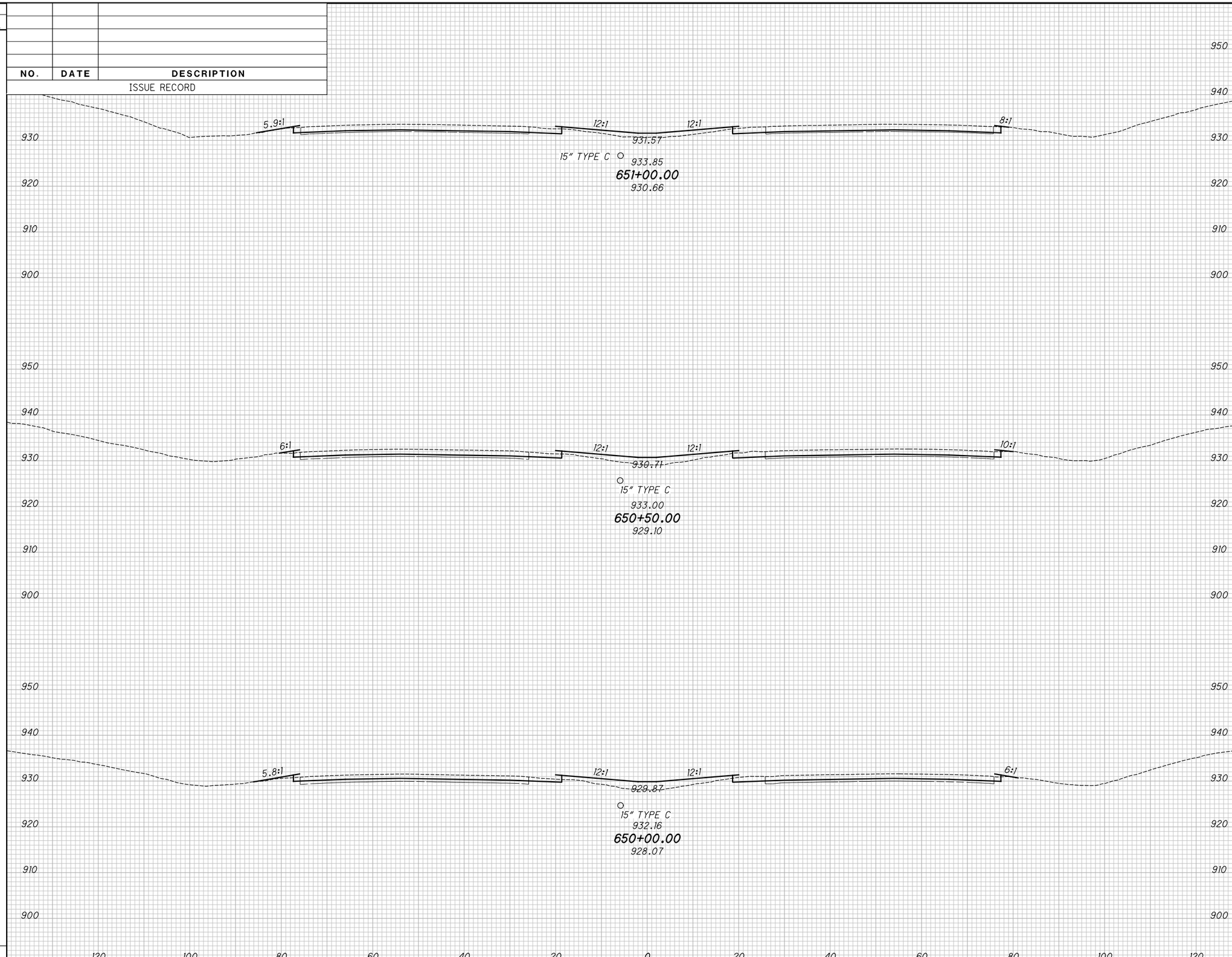
STA. 648+50.00 TO STA. 649+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_122 3/20/2019 9:46:33 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

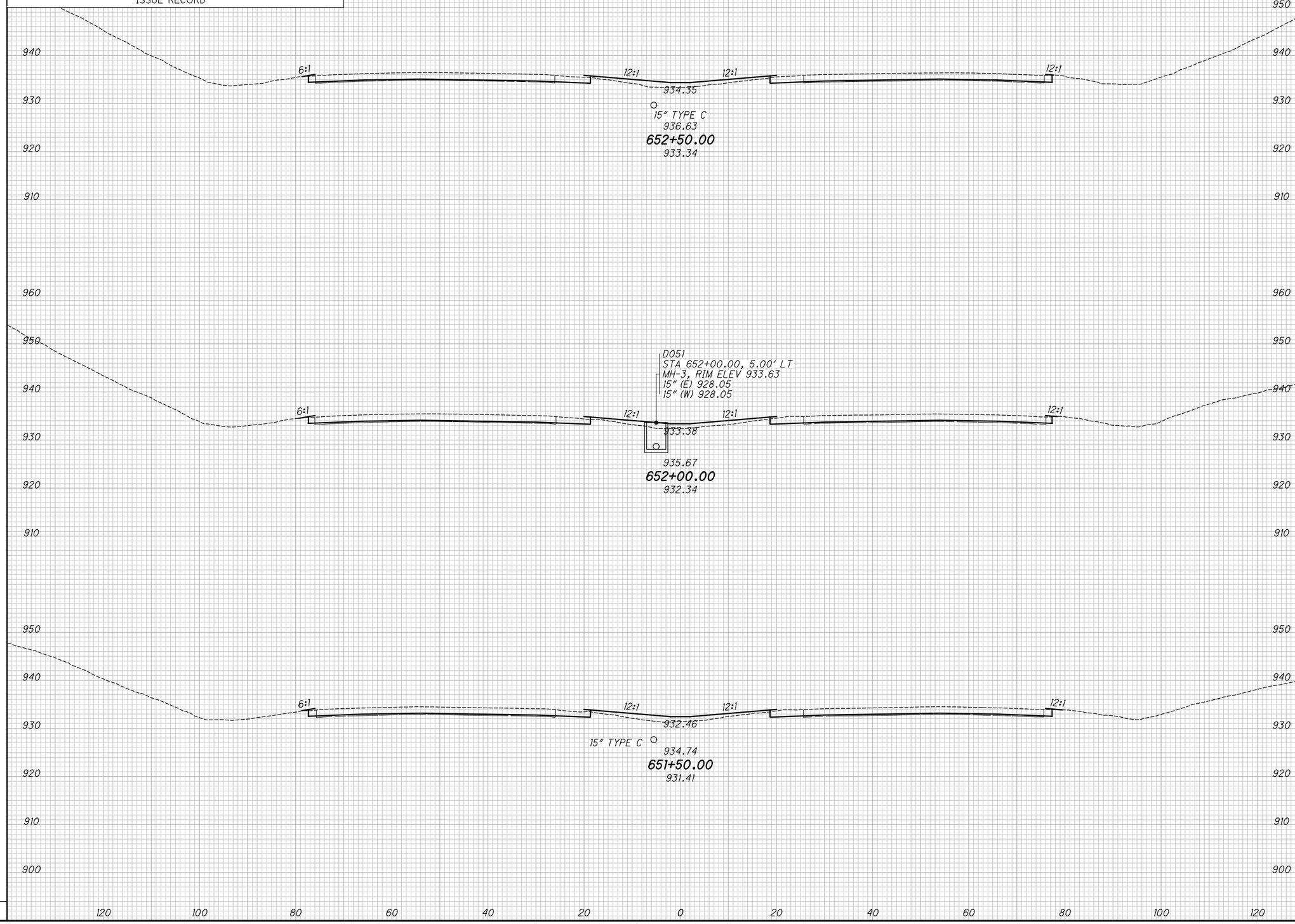
CROSS SECTIONS - IR 70
STA. 650+00.00 TO STA. 651+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_123 3/20/2019 9:46:35 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 651+50.00 TO STA. 652+50.00

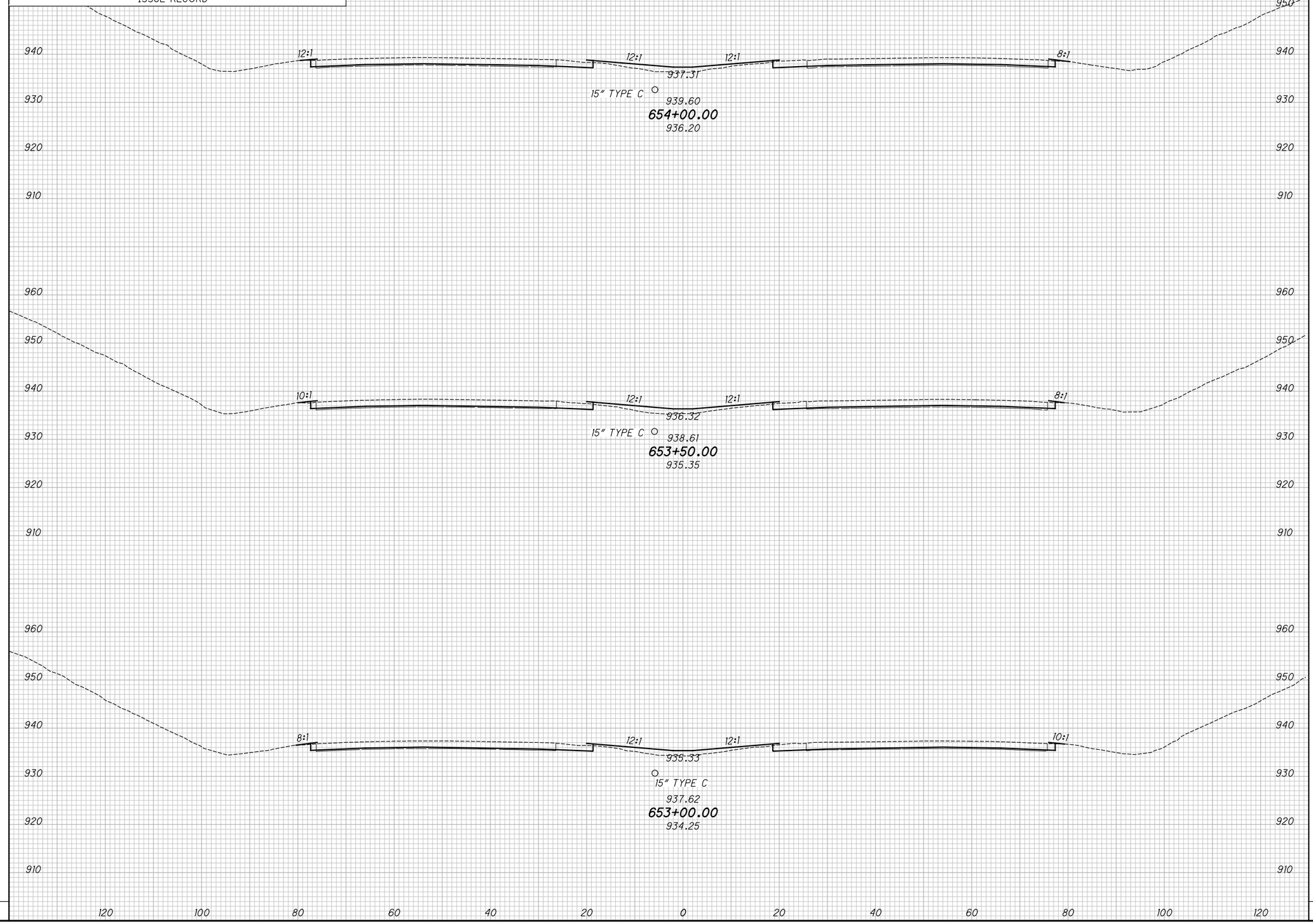
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_124 3/20/2019 9:46:37 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

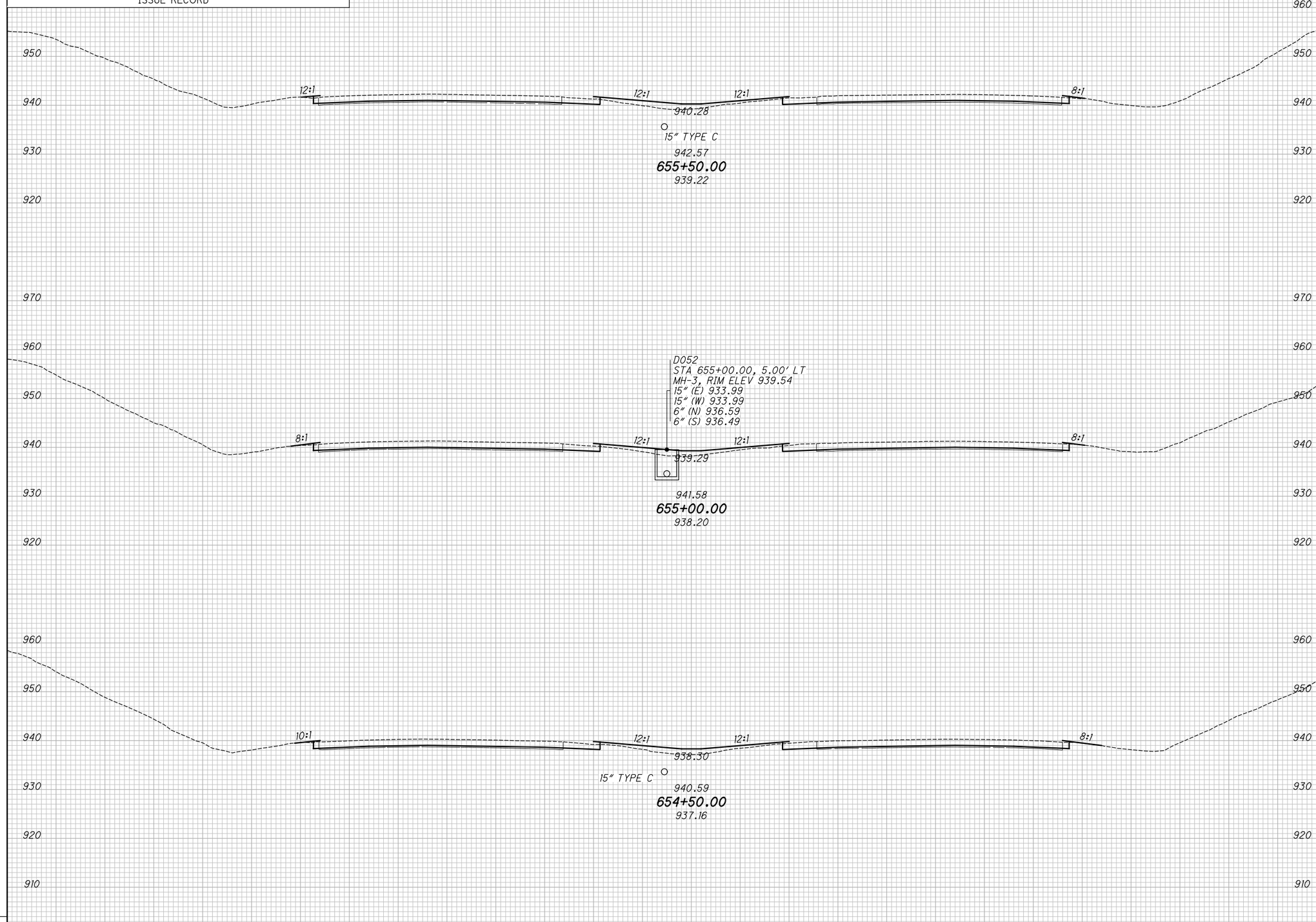
CROSS SECTIONS - IR 70
STA. 653+00.00 TO STA. 654+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_125 3/20/2019 9:46:40 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 654+50.00 TO STA. 655+50.00

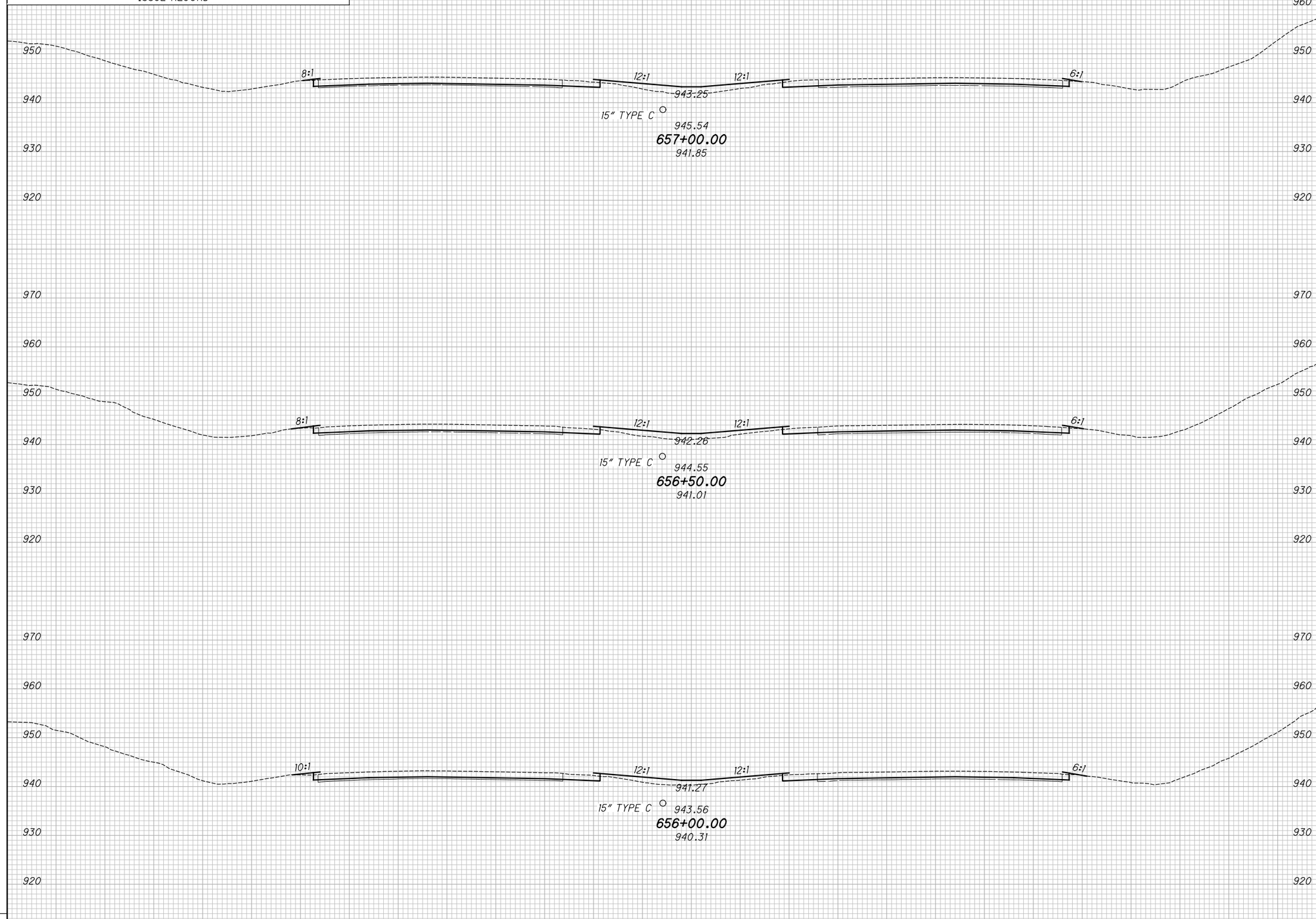
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_126 3/20/2019 9:46:42 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 656+00.00 TO STA. 657+00.00

MAD-70-8.62

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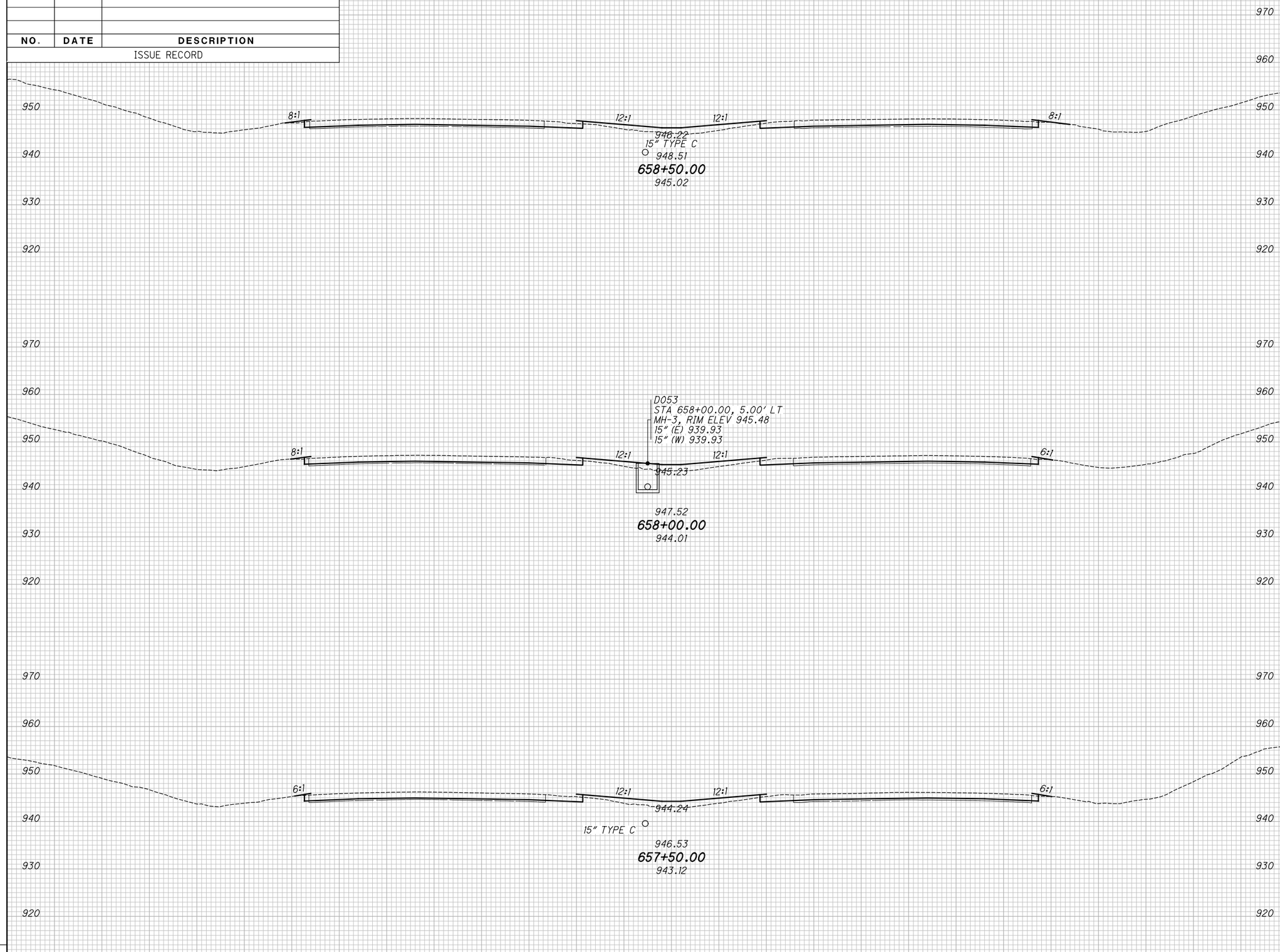
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 657+50.00 TO STA. 658+50.00

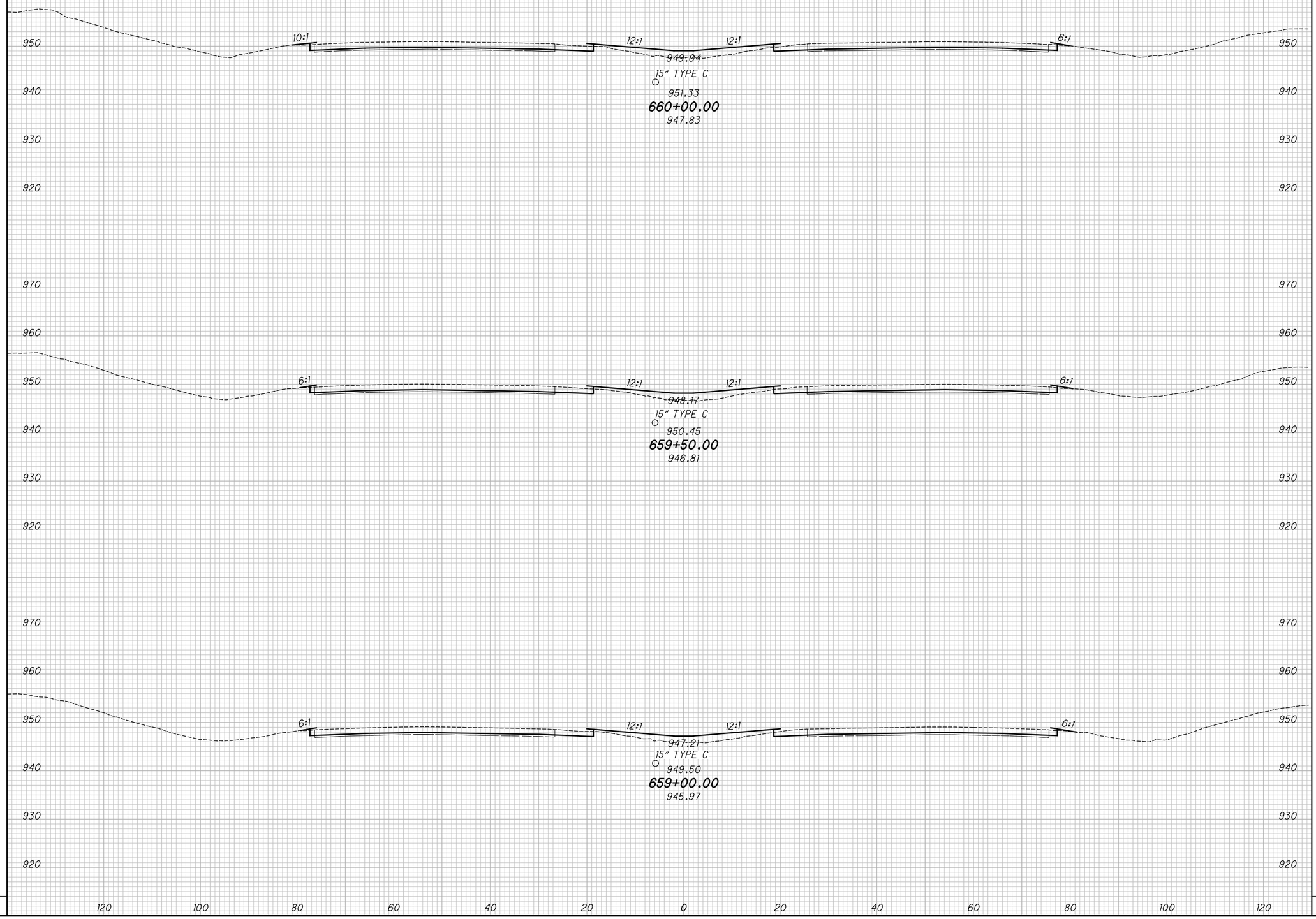
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_128 3/20/2019 9:46:46 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 659+00.00 TO STA. 660+00.00

MAD-70-8.62

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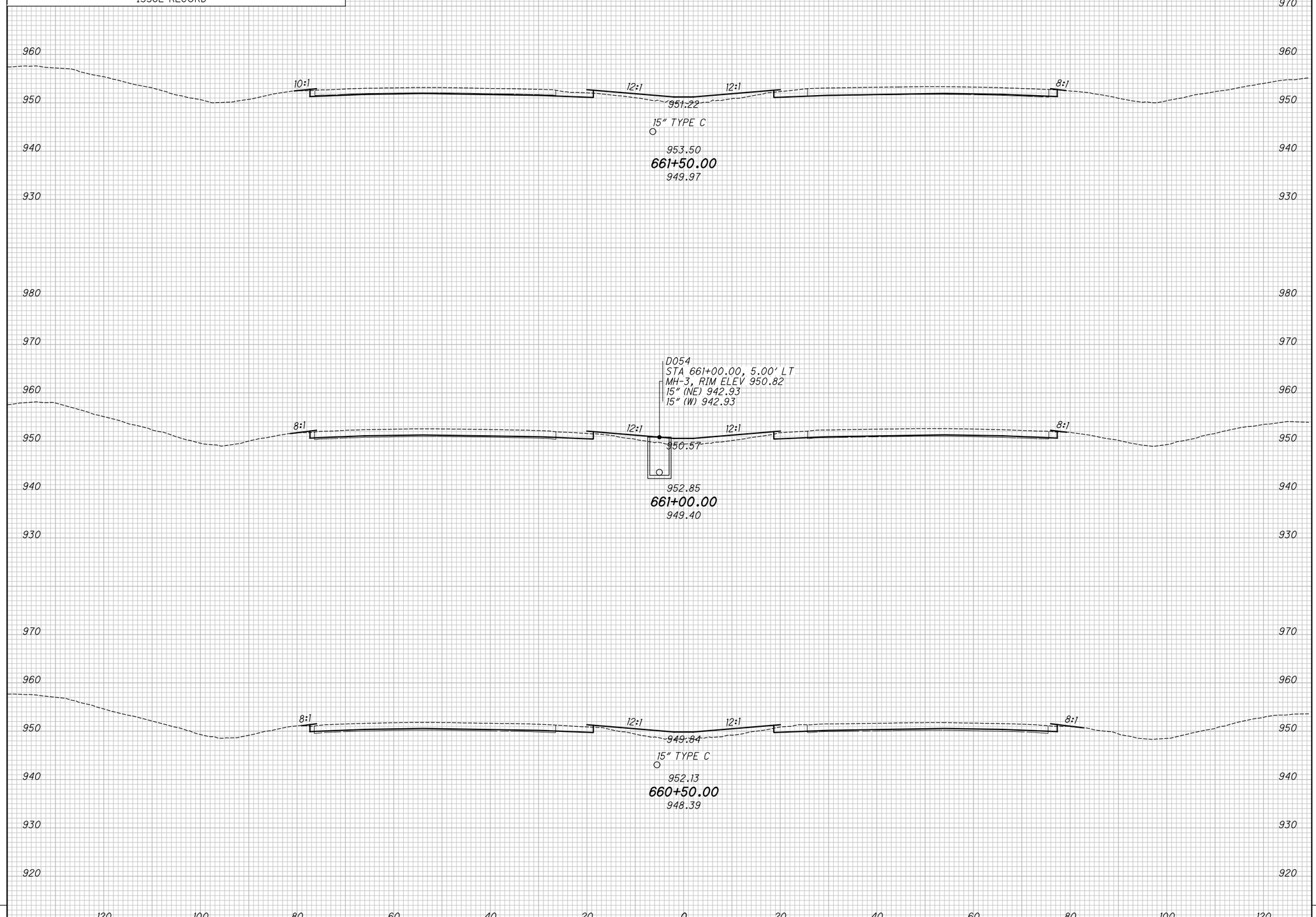
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 660+50.00 TO STA. 661+50.00

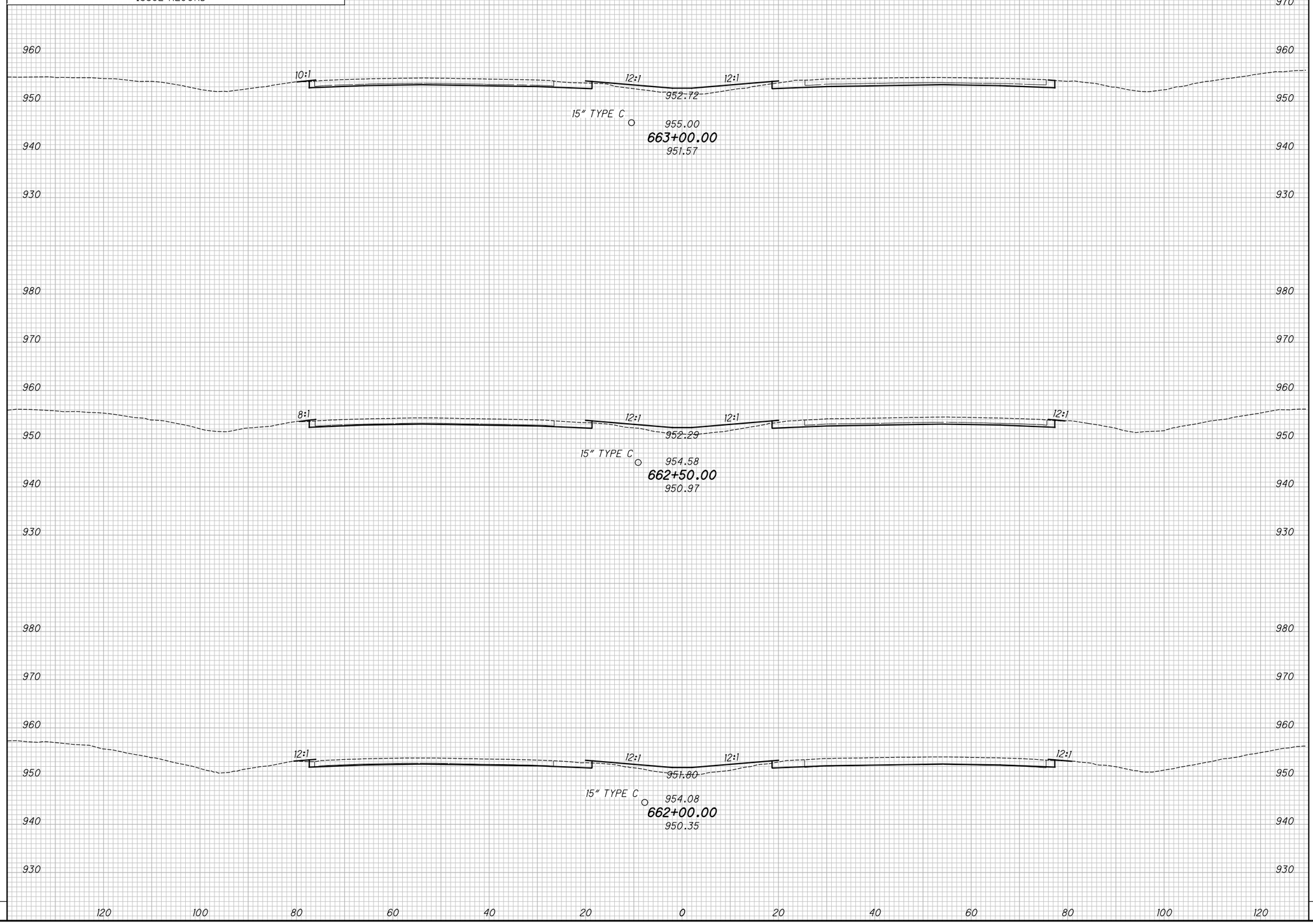
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_130 3/20/2019 9:46:50 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 662+00.00 TO STA. 663+00.00

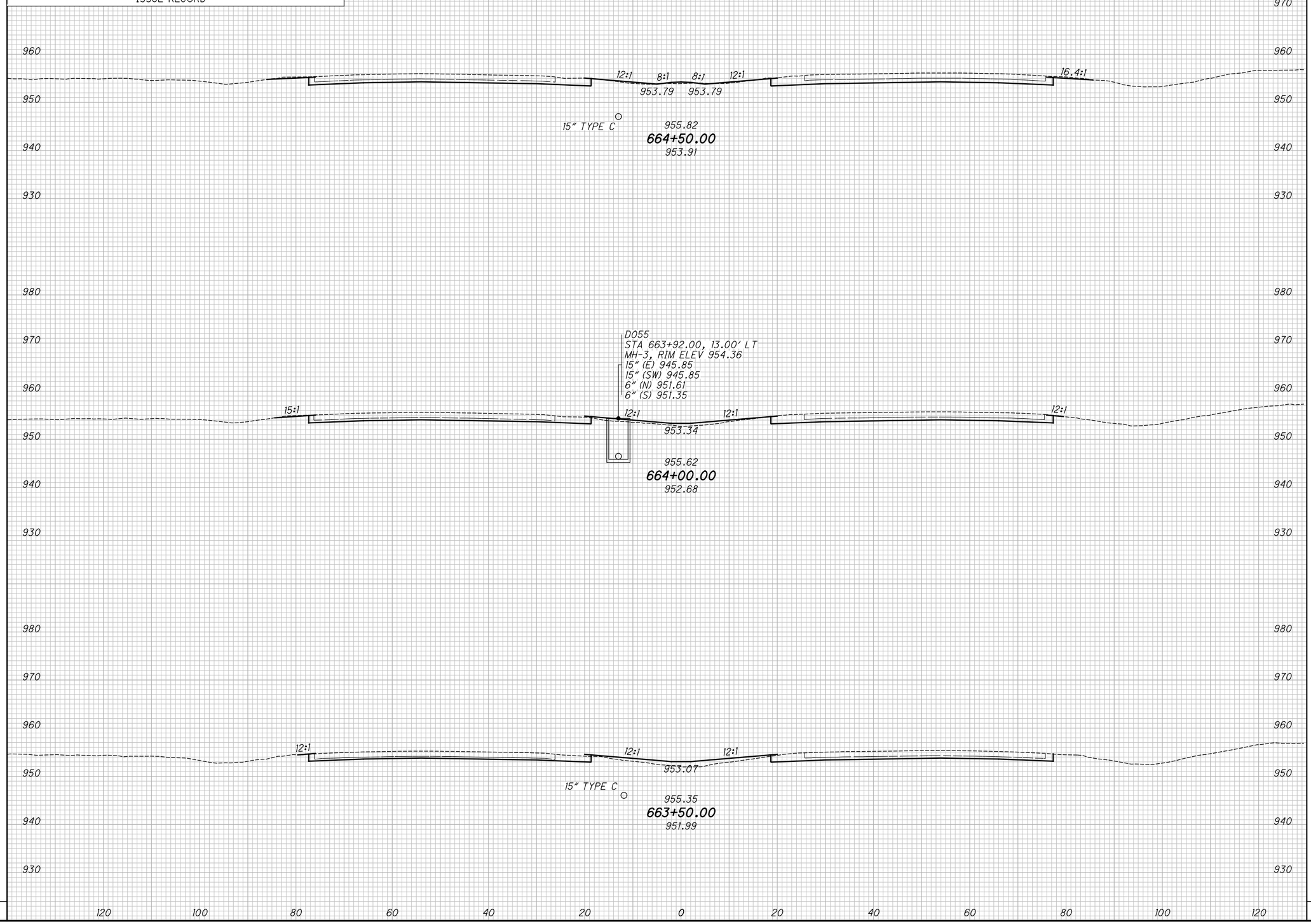
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_131 3/20/2019 9:46:52 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 663+50.00 TO STA. 664+50.00

MAD-70-8.62

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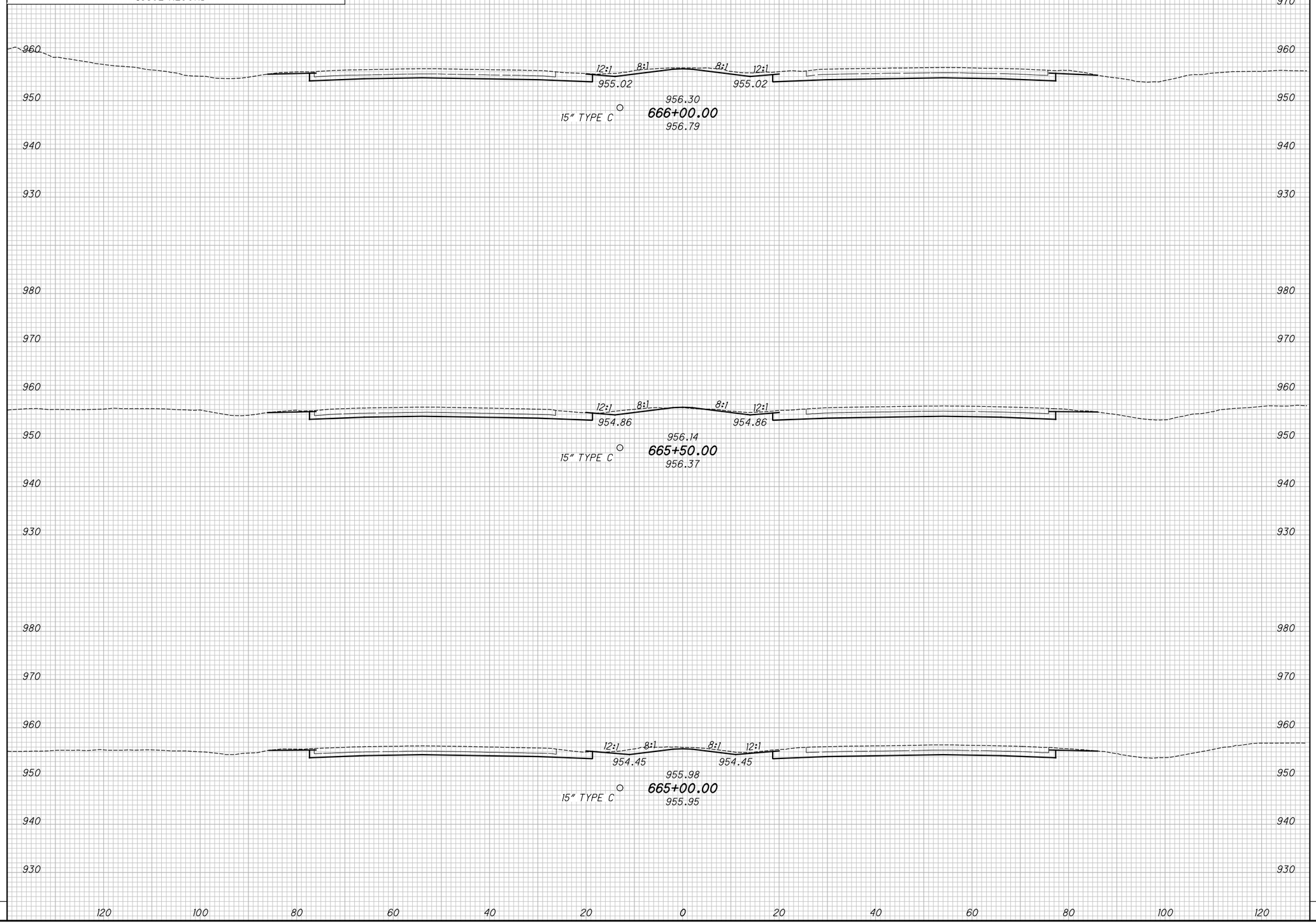
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

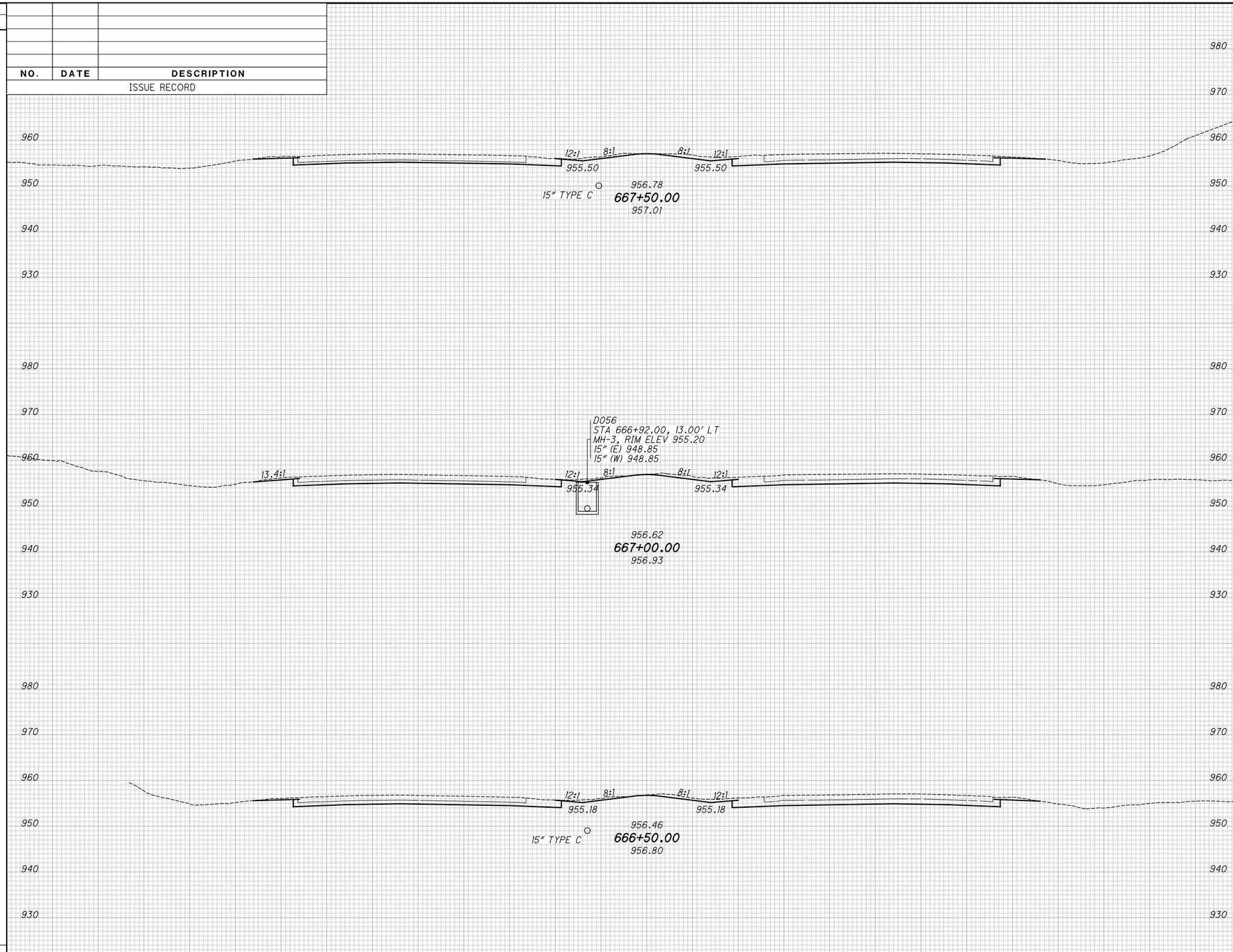
CROSS SECTIONS - IR 70
STA. 665+00.00 TO STA. 666+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_133 3/20/2019 9:46:56 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

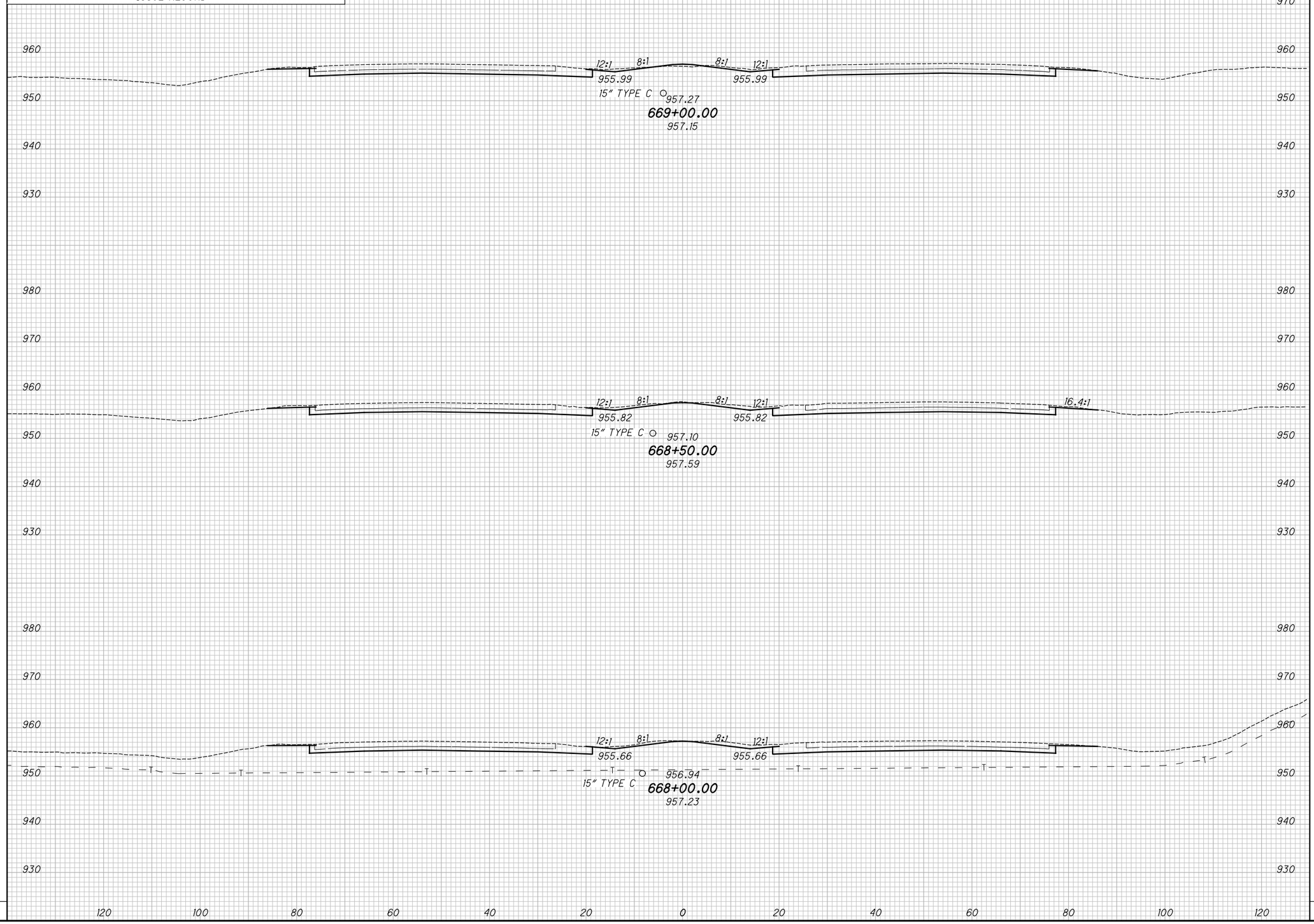
CROSS SECTIONS - IR 70
STA. 666+50.00 TO STA. 667+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_134 3/20/2019 9:46:58 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 668+00.00 TO STA. 669+00.00

MAD-70-8.62

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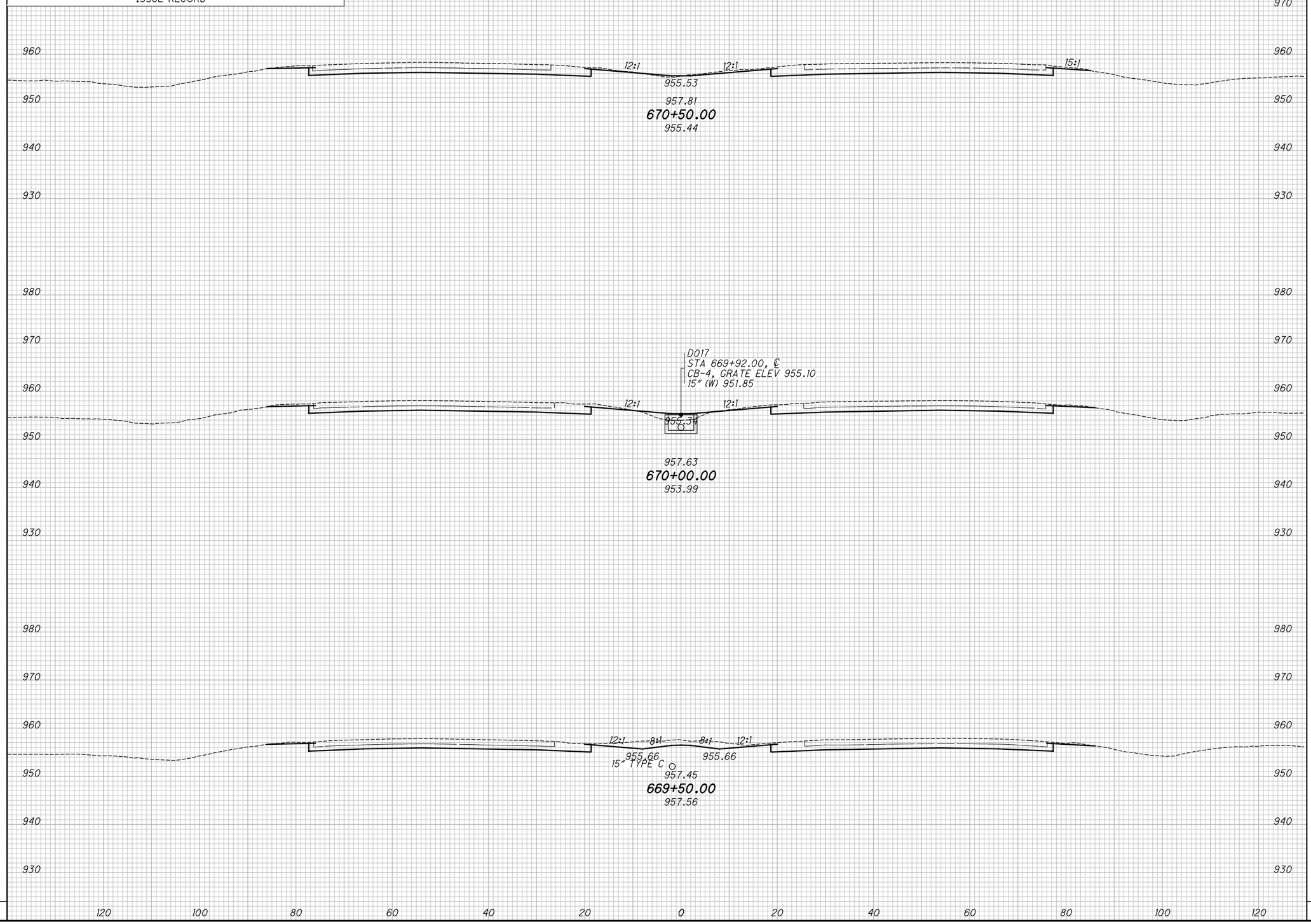
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 669+50.00 TO STA. 670+50.00

MAD-70-8.62

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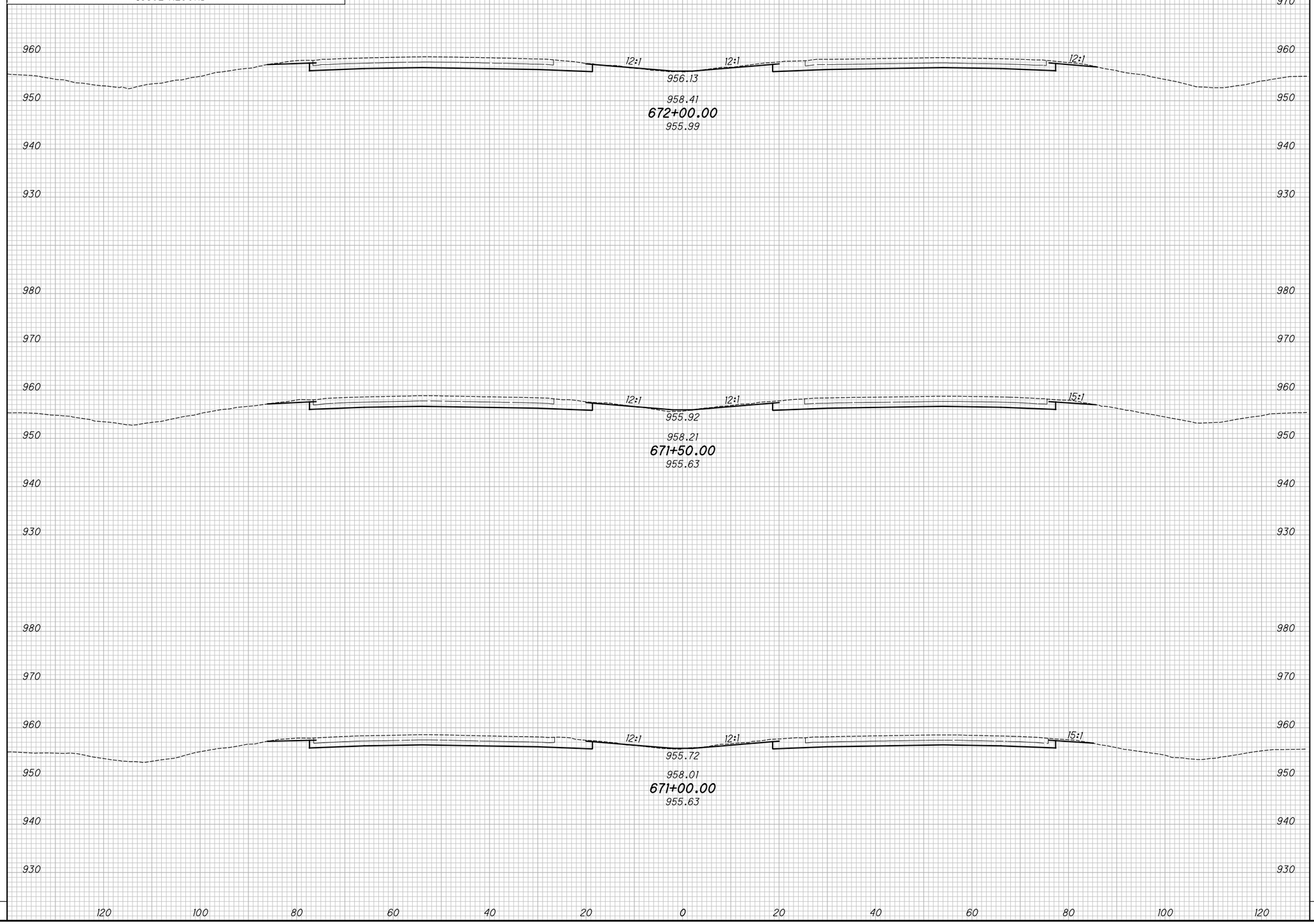
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 671+00.00 TO STA. 672+00.00

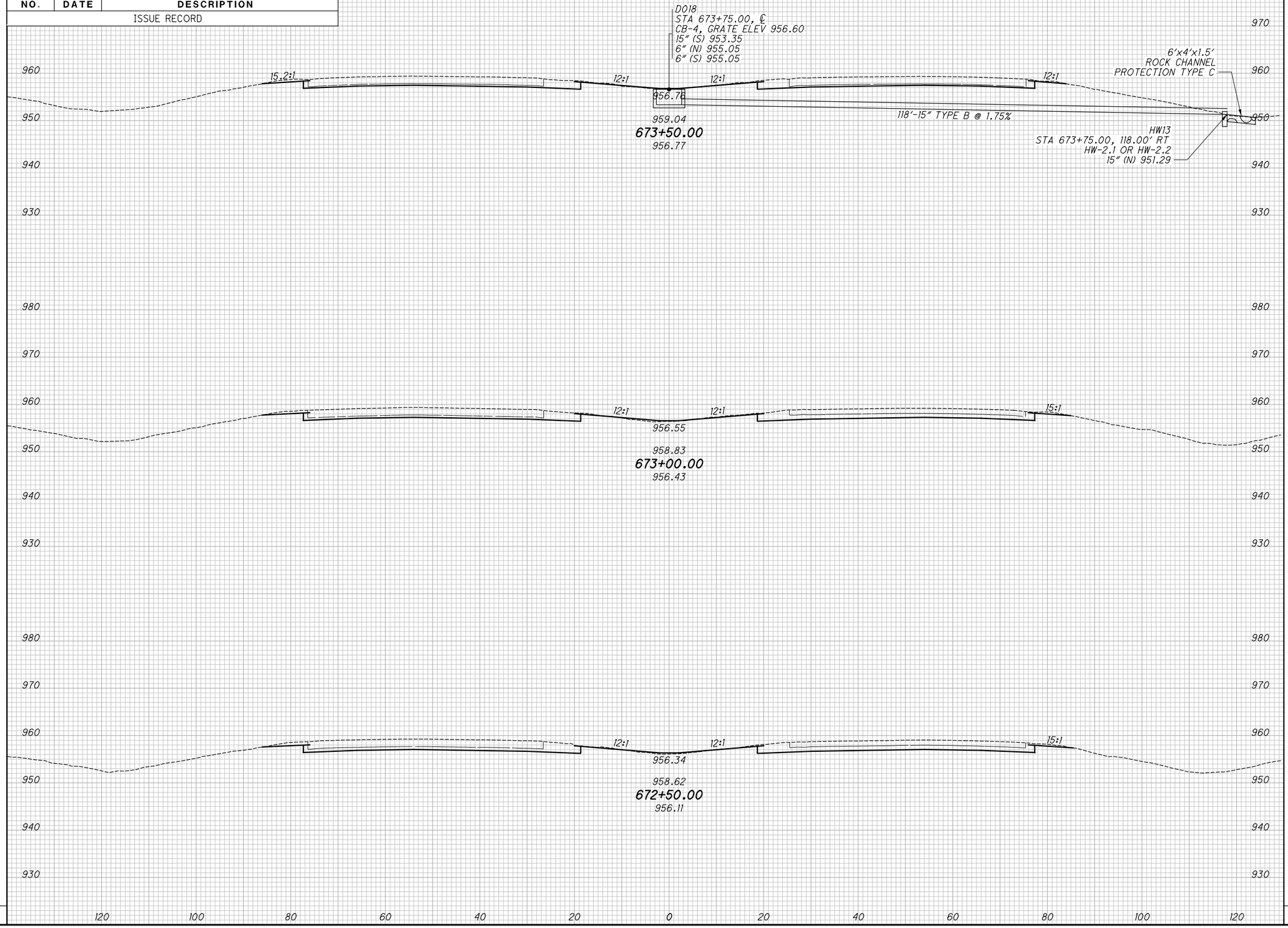
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_137 3/20/2019 9:47:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 672+50.00 TO STA. 673+50.00

MAD-70-8.62

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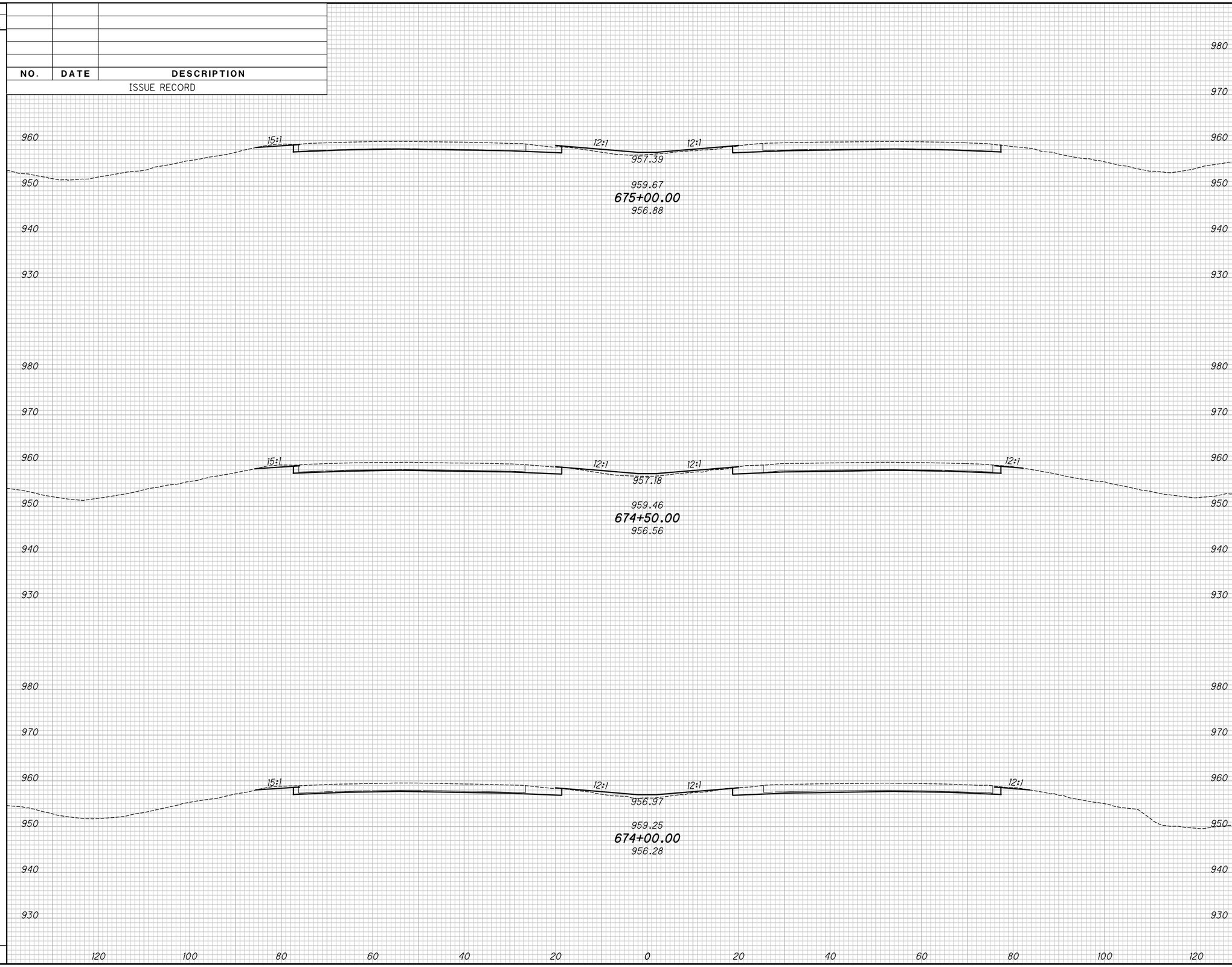
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 674+00.00 TO STA. 675+00.00

MAD-70-8.62

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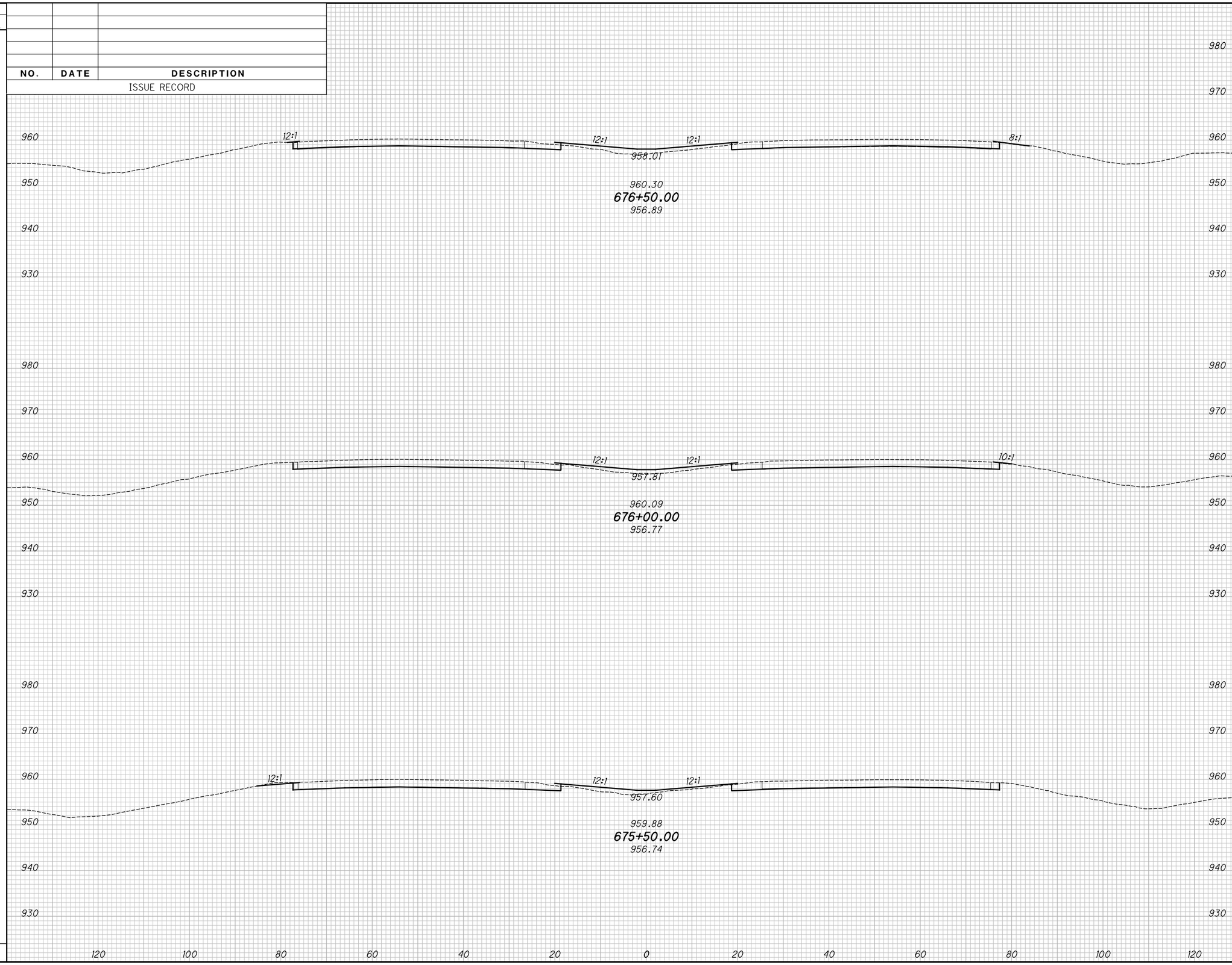
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 675+50.00 TO STA. 676+50.00

MAD-70-8.62

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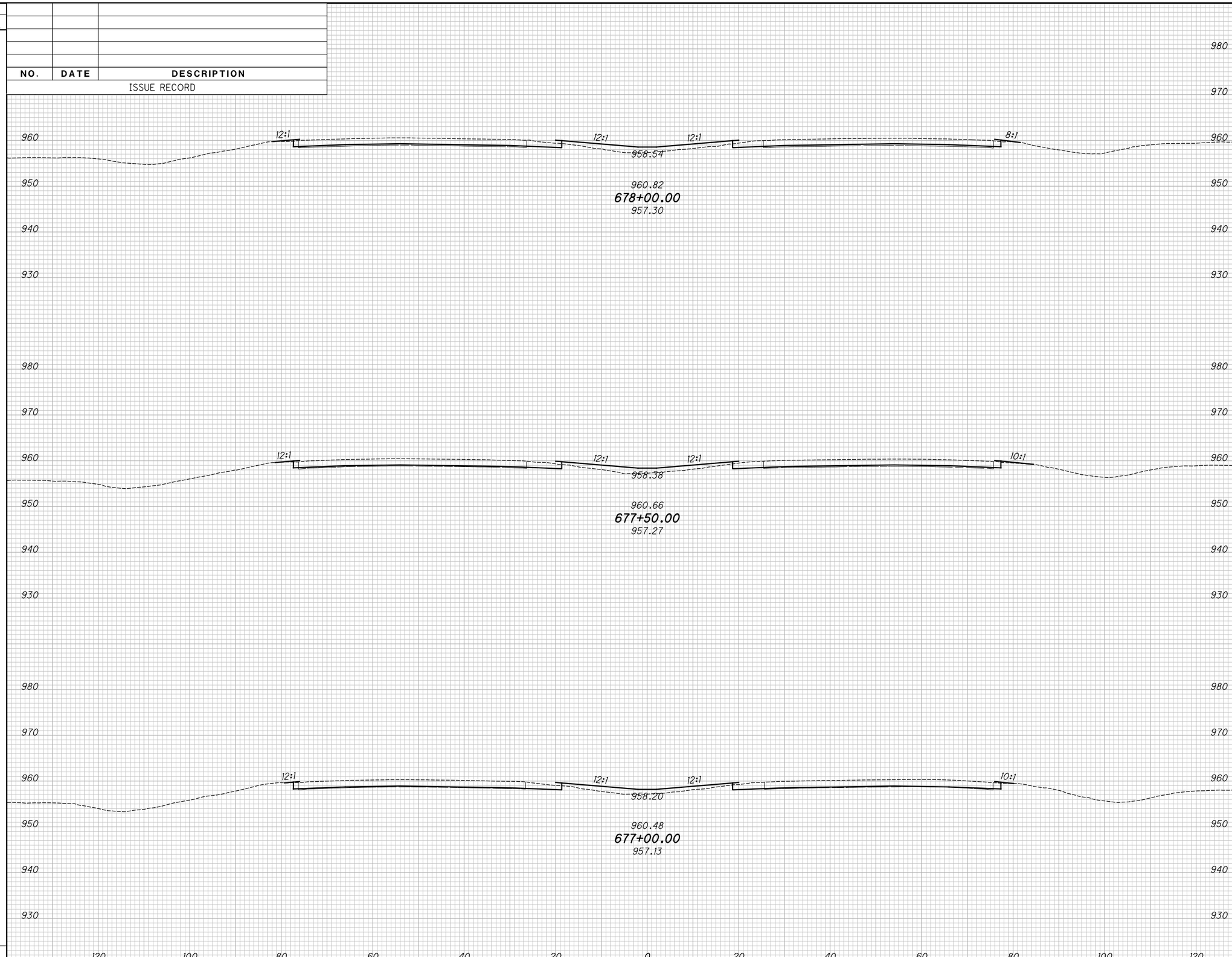
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 677+00.00 TO STA. 678+00.00

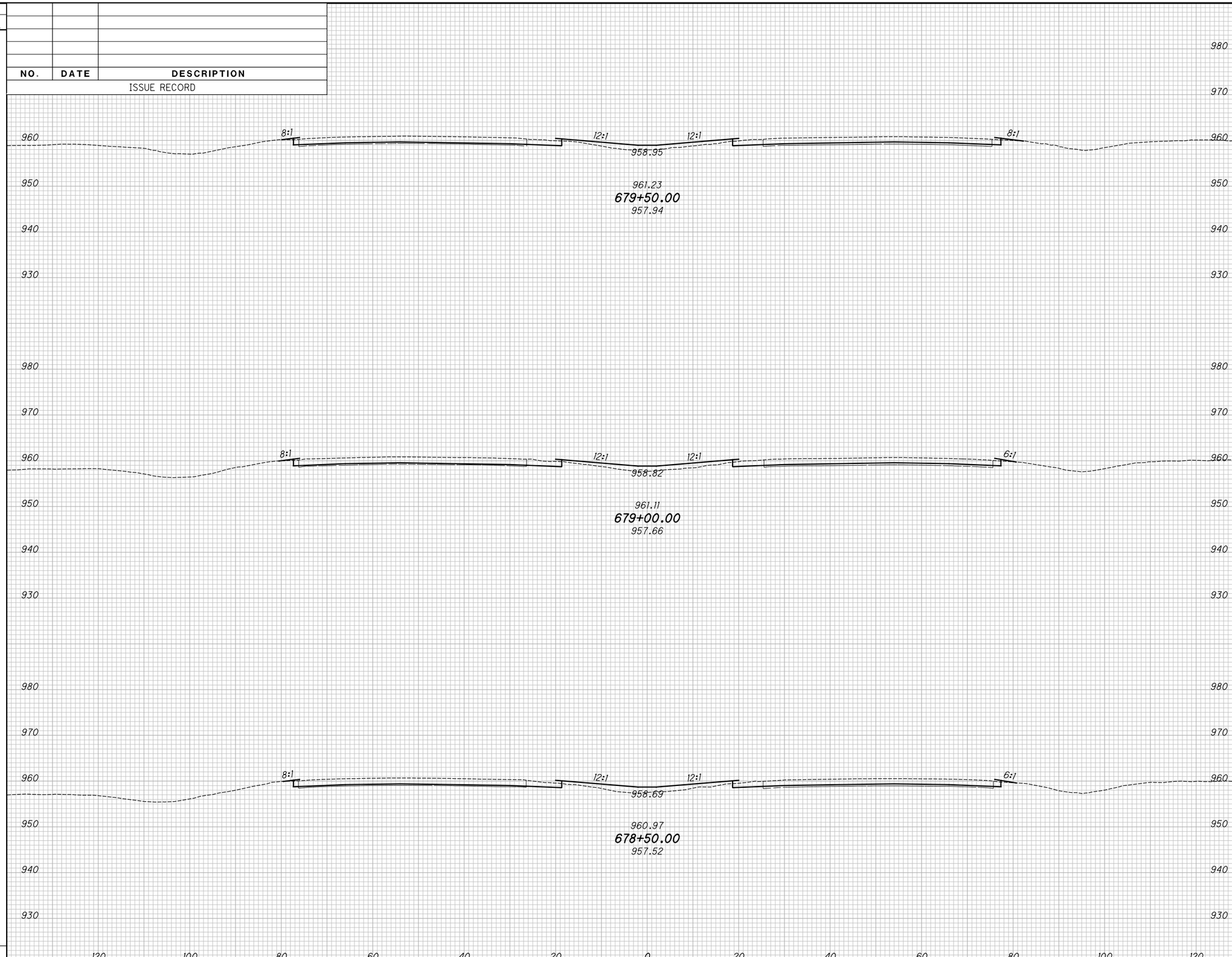
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_141 3/20/2019 9:47:12 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 678+50.00 TO STA. 679+50.00

MAD-70-8.62

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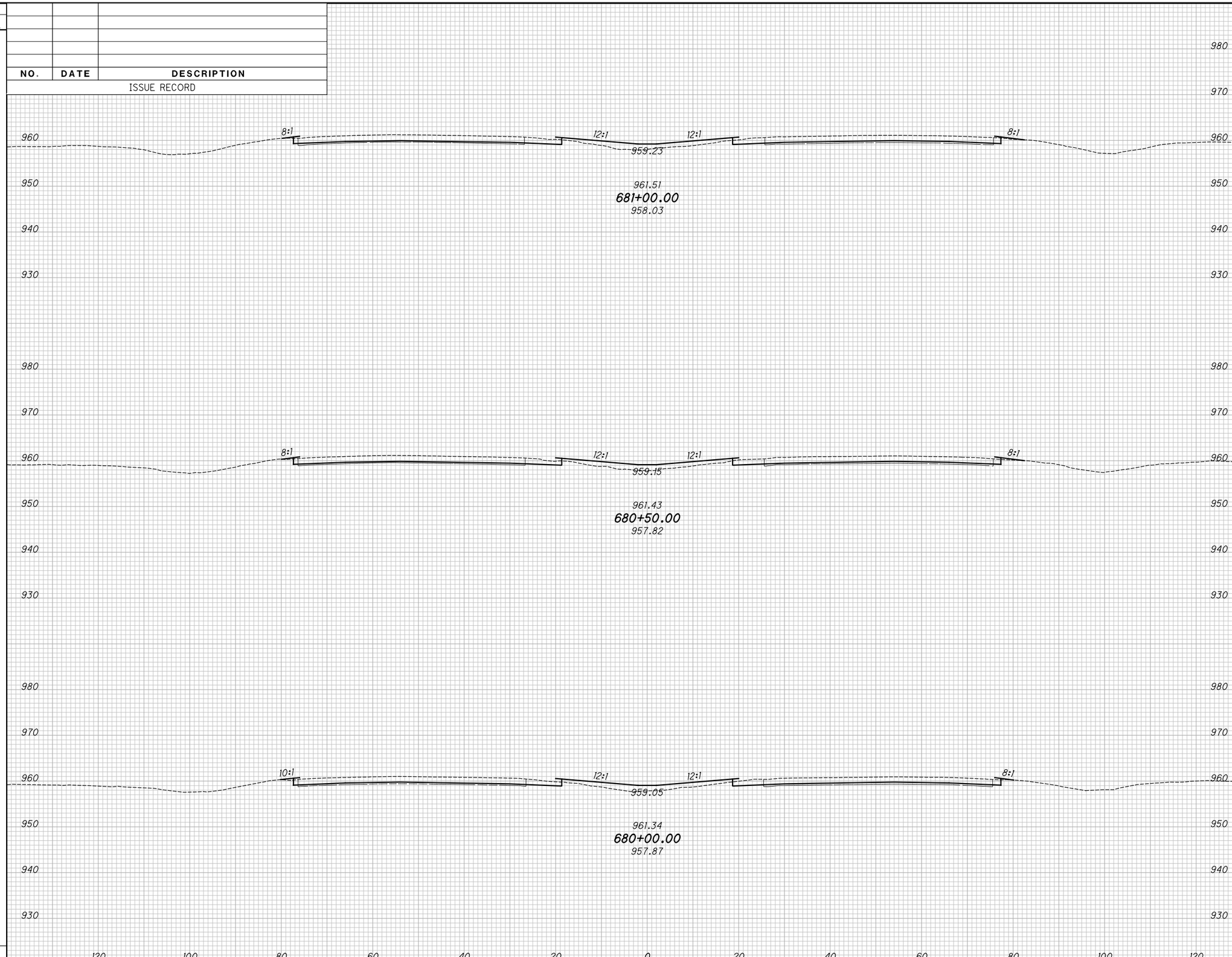
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 680+00.00 TO STA. 681+00.00

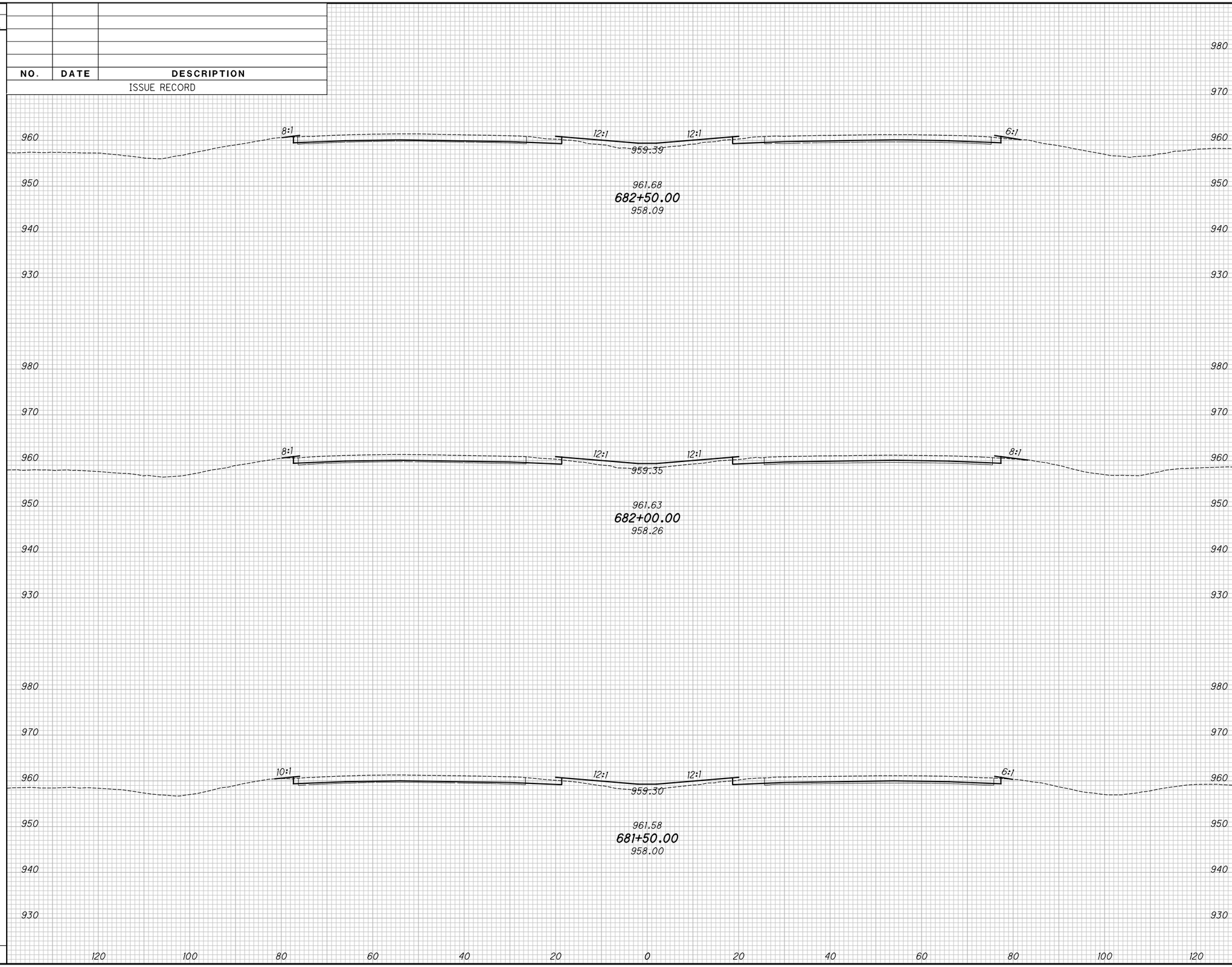
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_143 3/20/2019 9:47:16 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 681+50.00 TO STA. 682+50.00

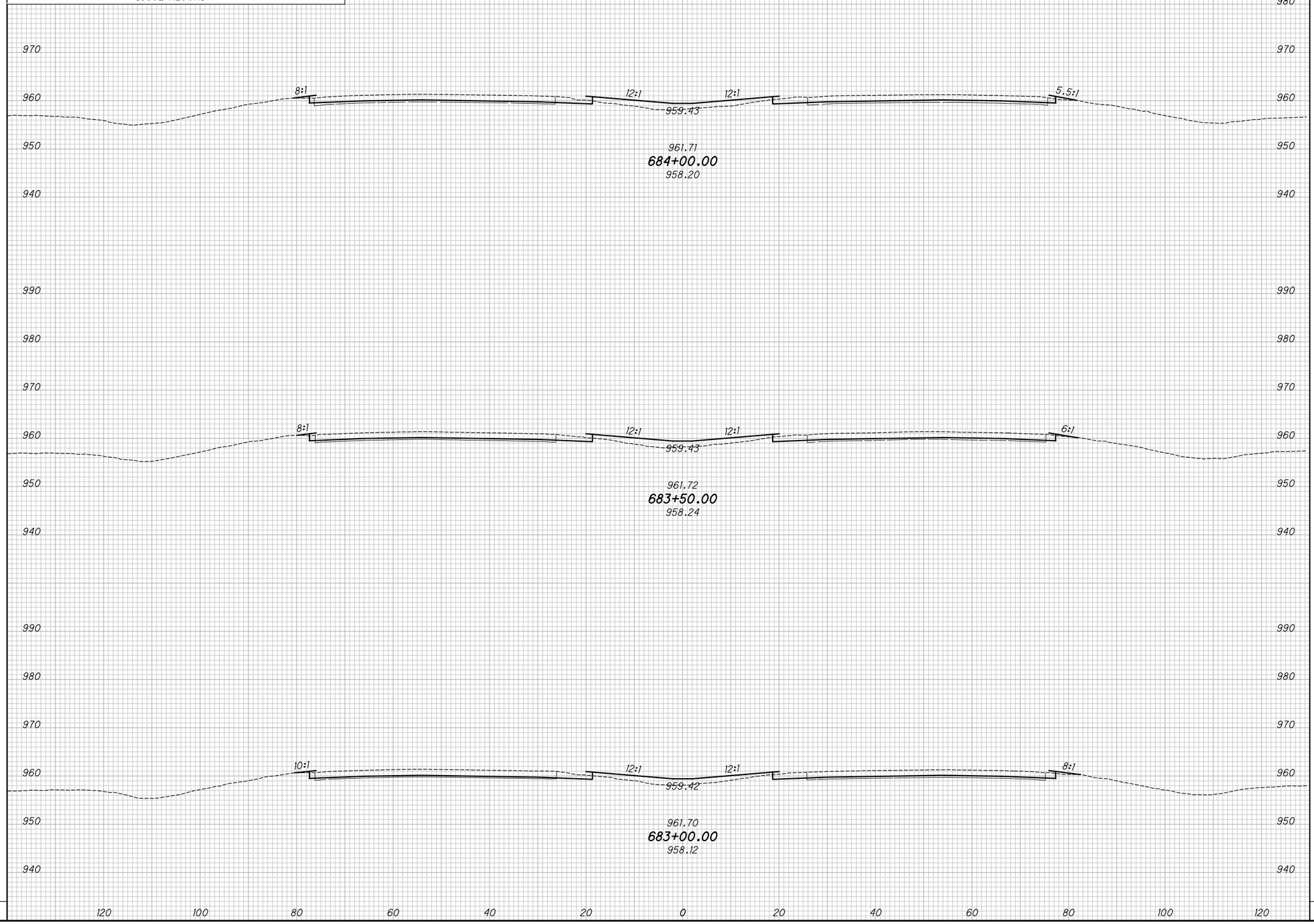
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_144 3/20/2019 9:47:18 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

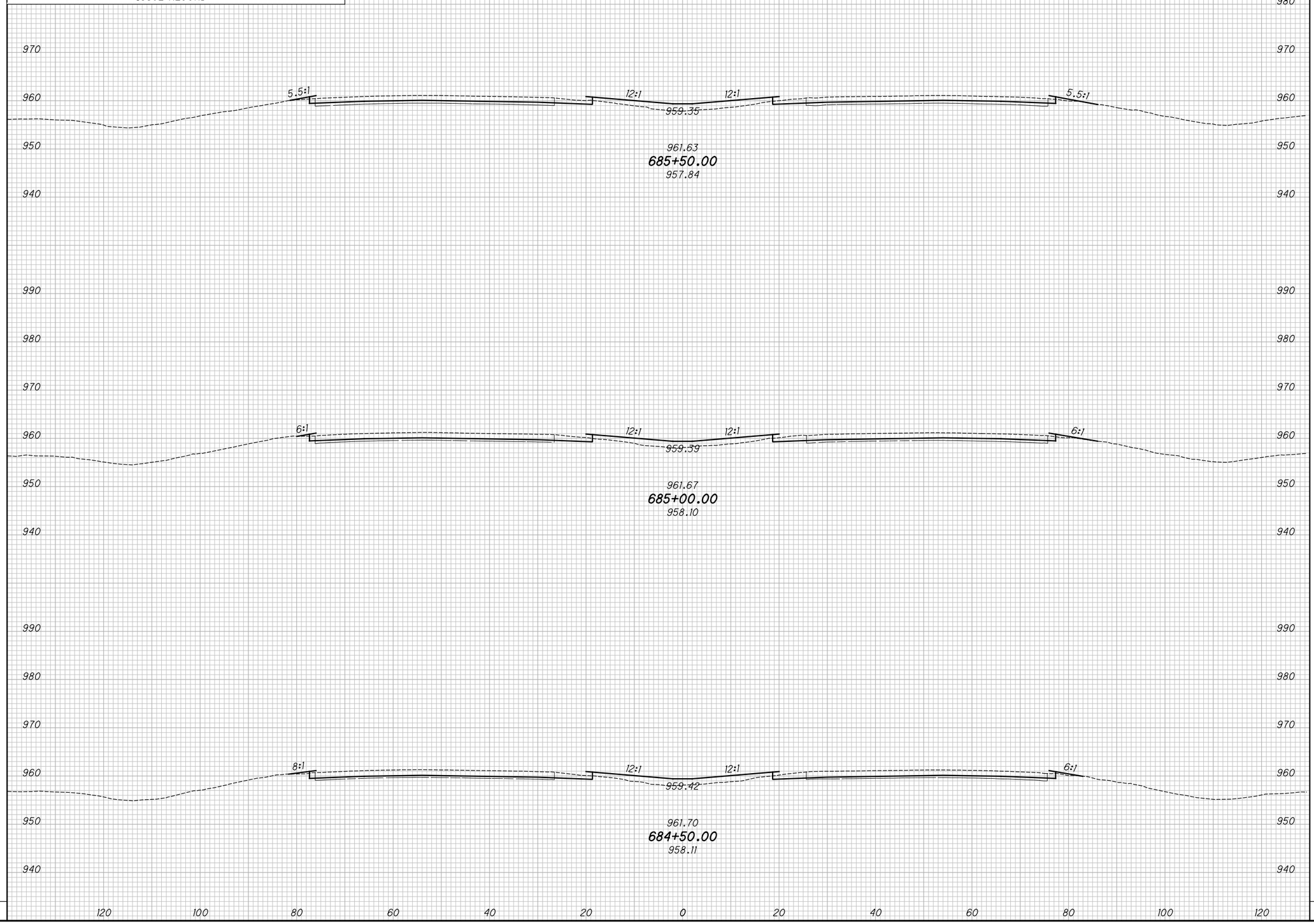
CROSS SECTIONS - IR 70
STA. 683+00.00 TO STA. 684+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_I45 3/20/2019 9:47:20 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 684+50.00 TO STA. 685+50.00

MAD-70-8.62

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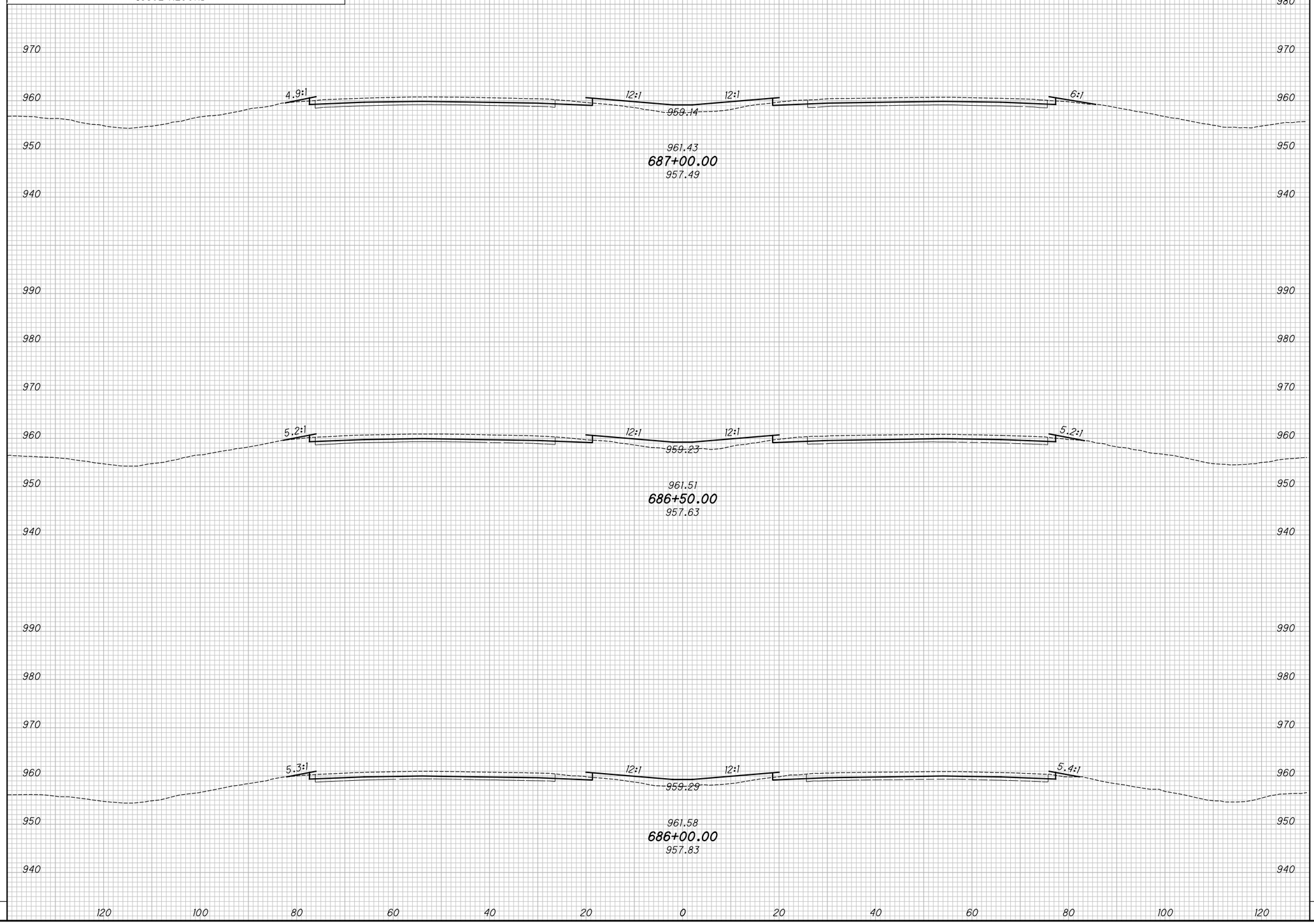
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 686+00.00 TO STA. 687+00.00

MAD-70-8.62

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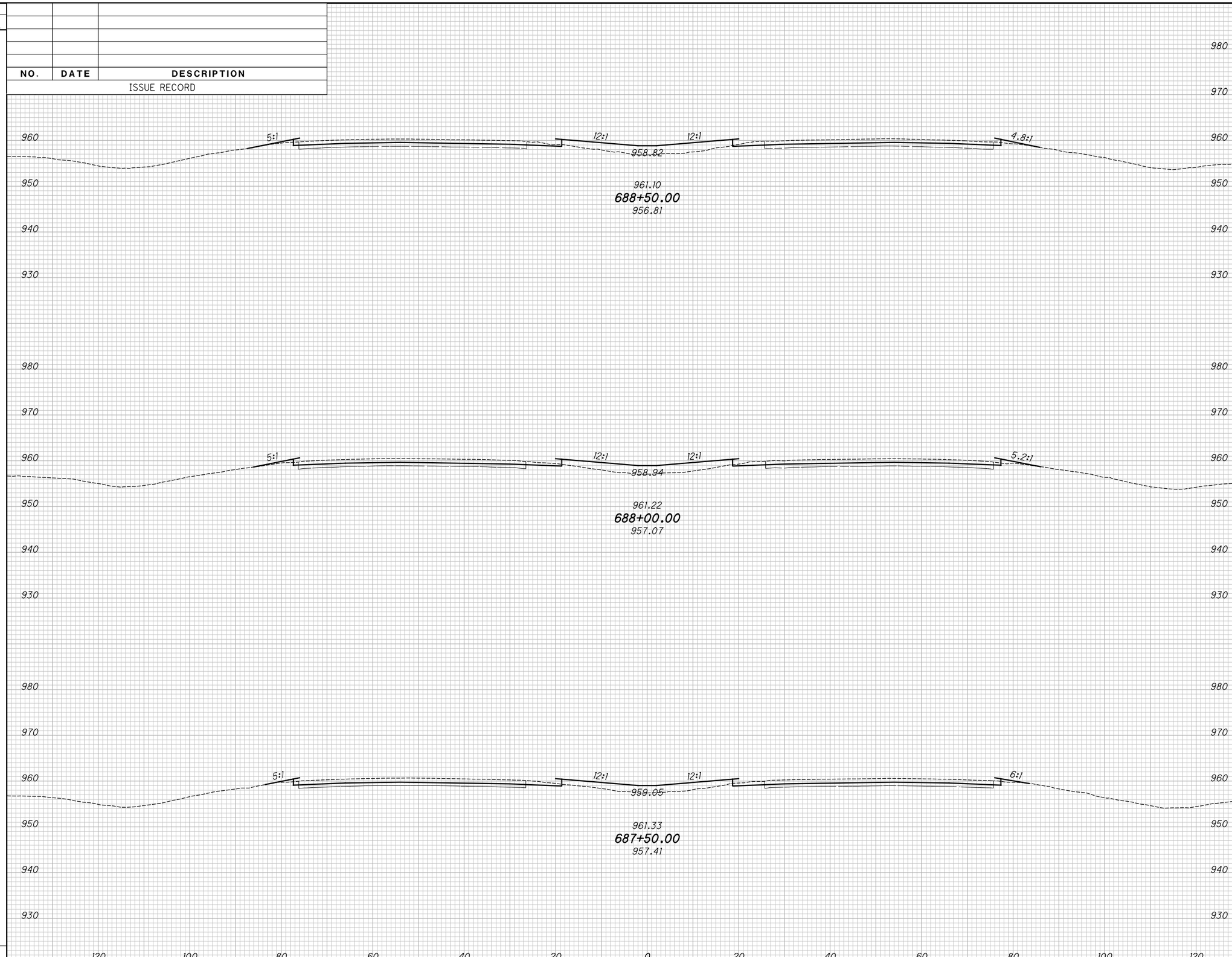
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

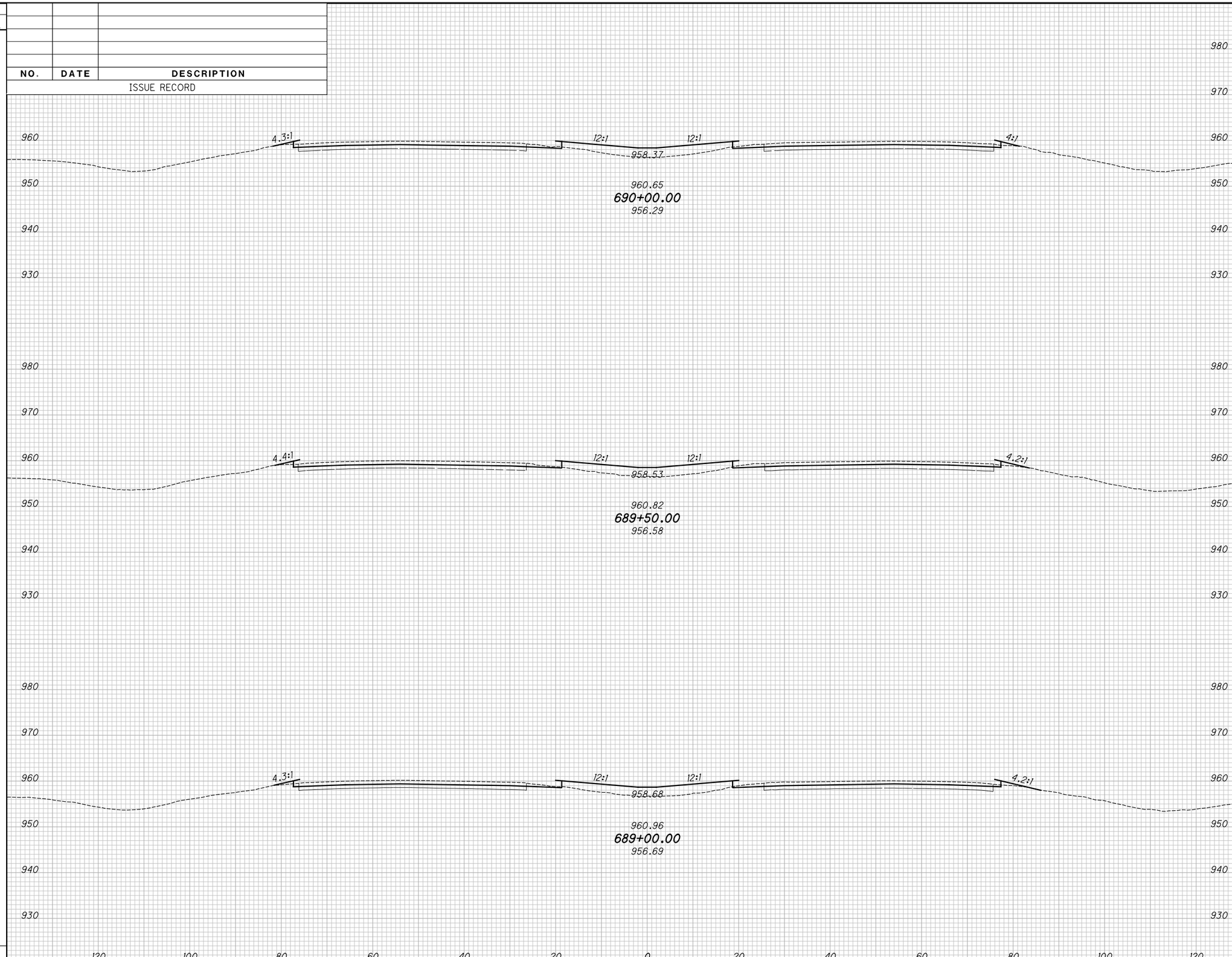
STA. 687+50.00 TO STA. 688+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_148 3/20/2019 9:47:27 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 689+00.00 TO STA. 690+00.00

MAD-70-8.62

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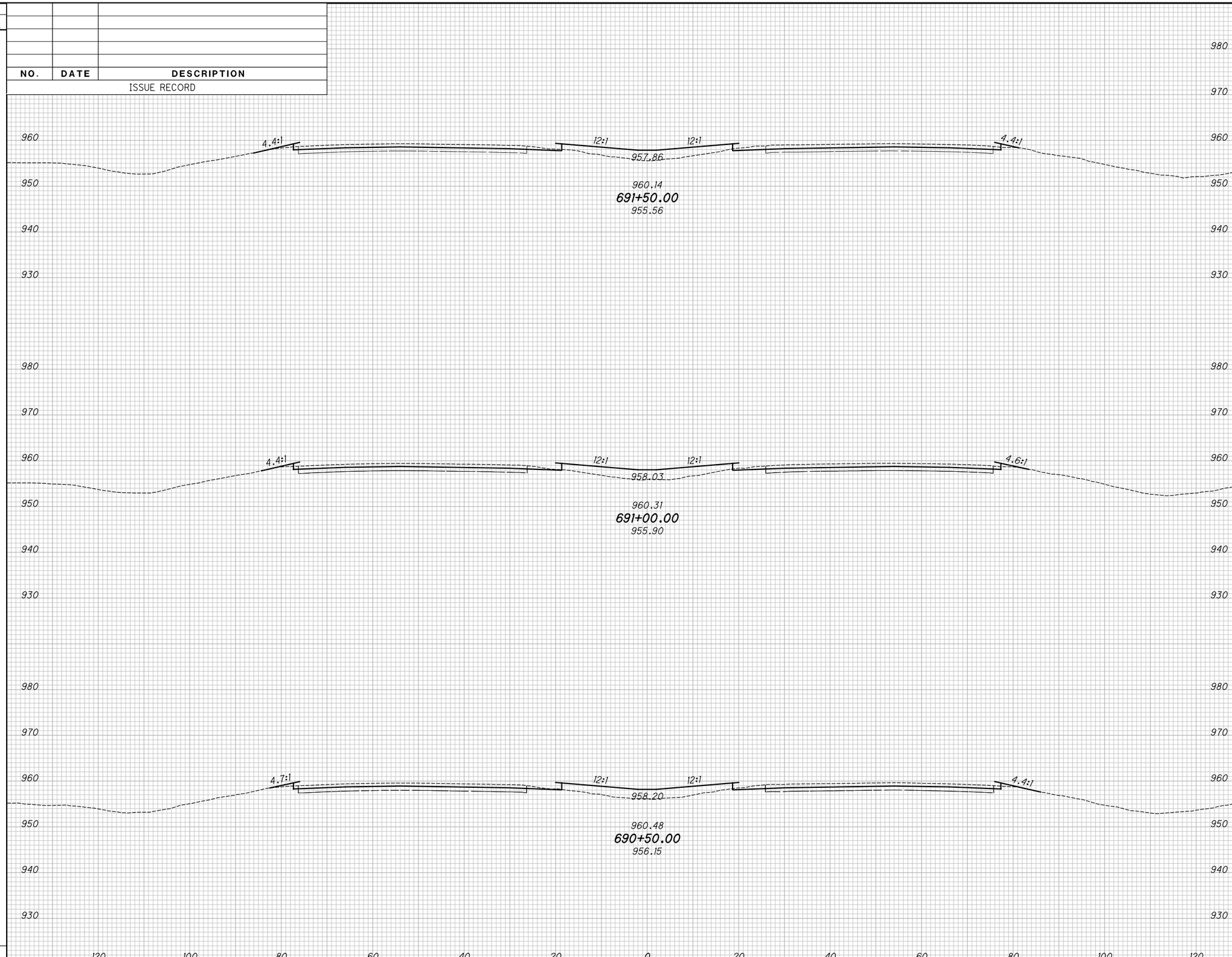
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 690+50.00 TO STA. 691+50.00

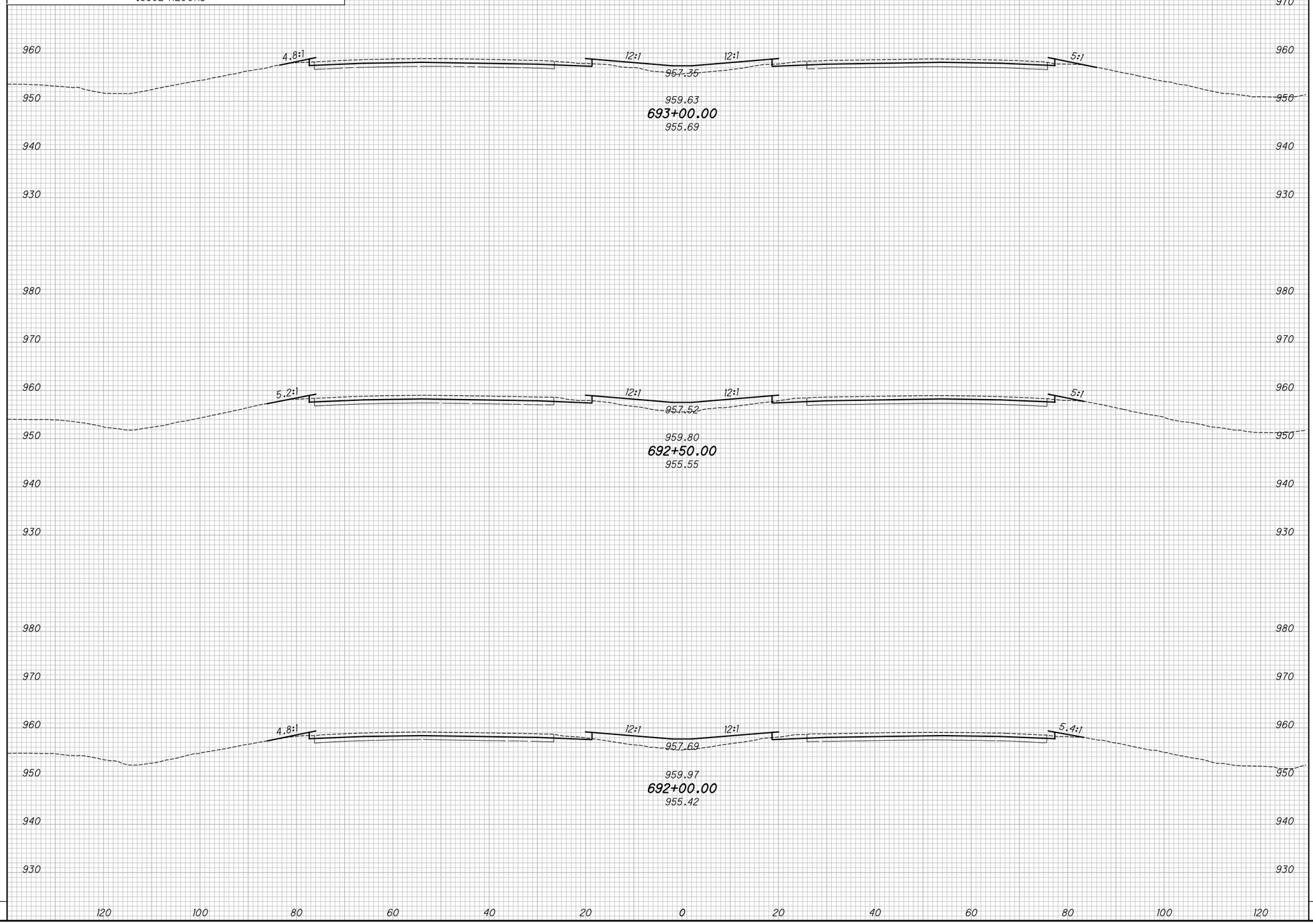
MAD-70-8.62

200
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_150 3/20/2019 9:47:31 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 692+00.00 TO STA. 693+00.00

MAD-70-8.62

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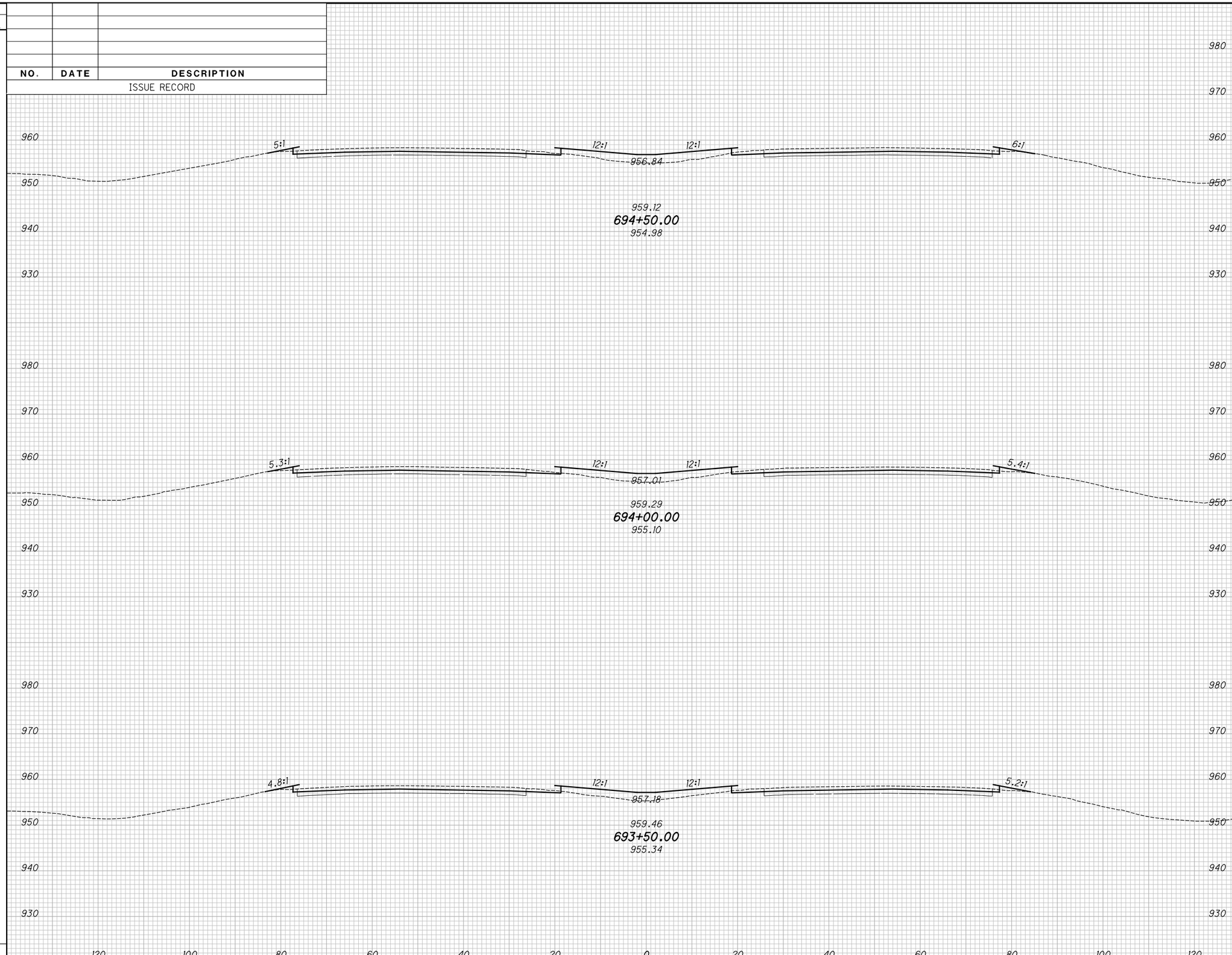
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 693+50.00 TO STA. 694+50.00

MAD-70-8.62

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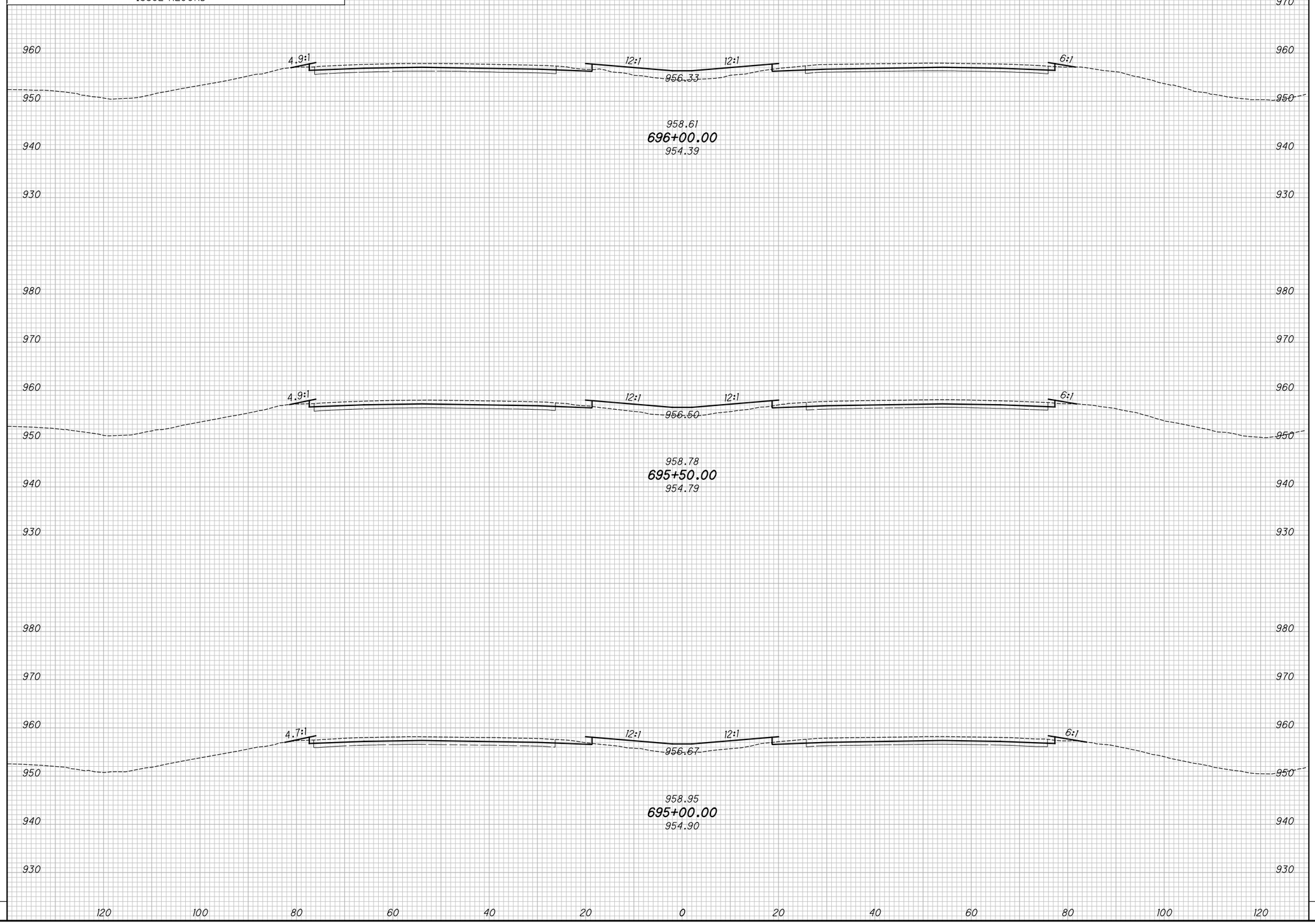
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 695+00.00 TO STA. 696+00.00

MAD-70-8.62

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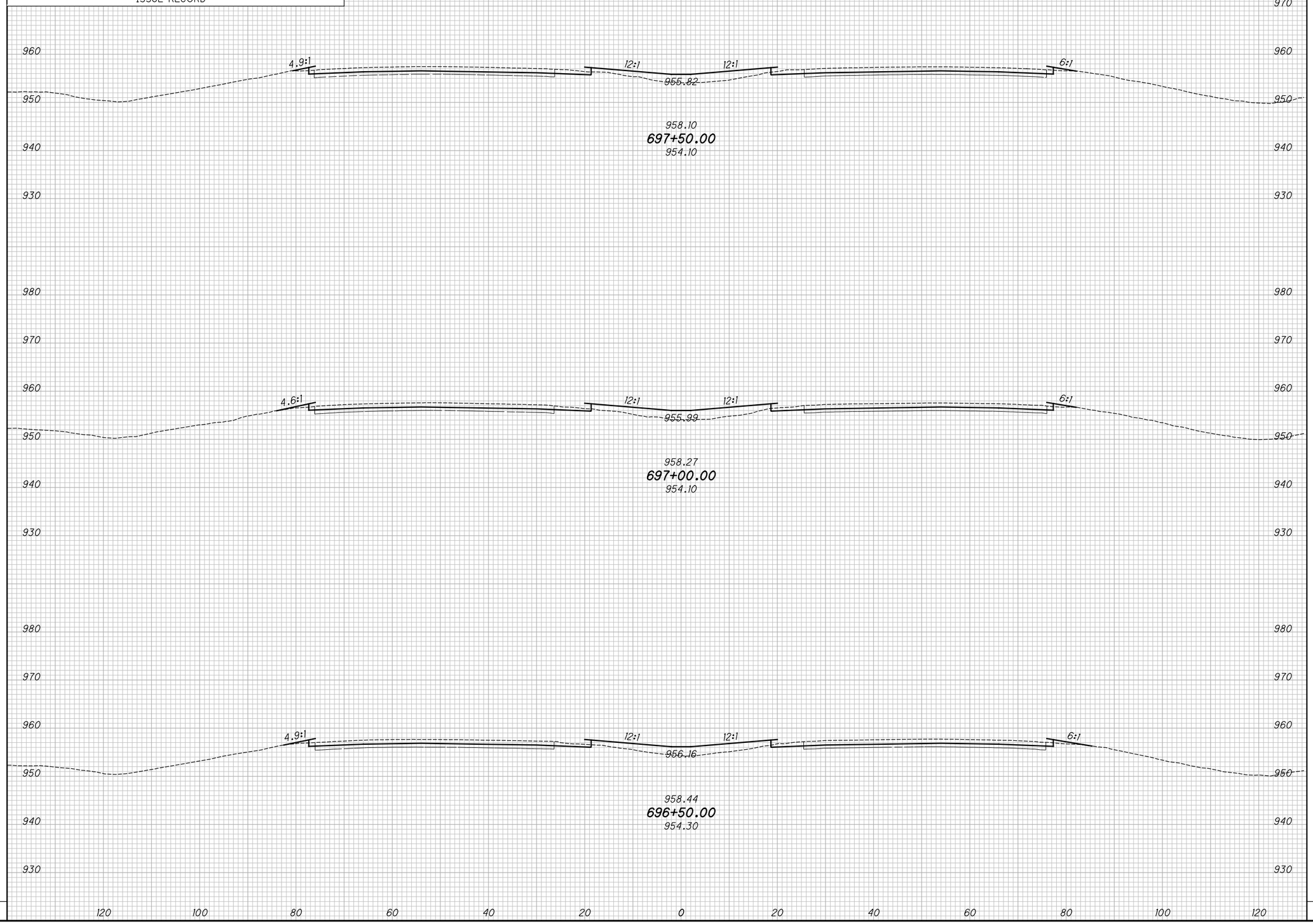
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 696+50.00 TO STA. 697+50.00

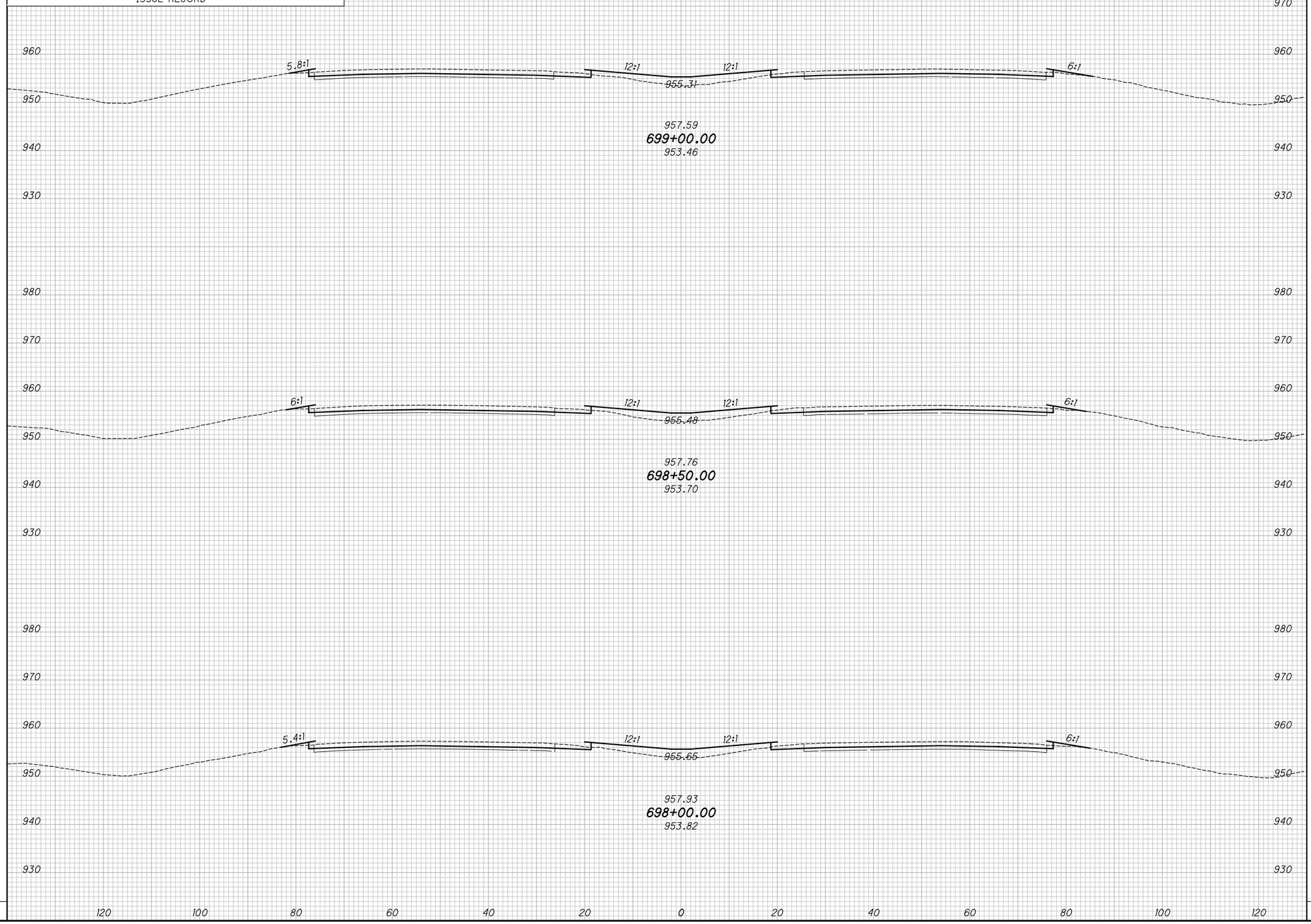
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_154 3/20/2019 9:47:52 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 698+00.00 TO STA. 699+00.00

MAD-70-8.62

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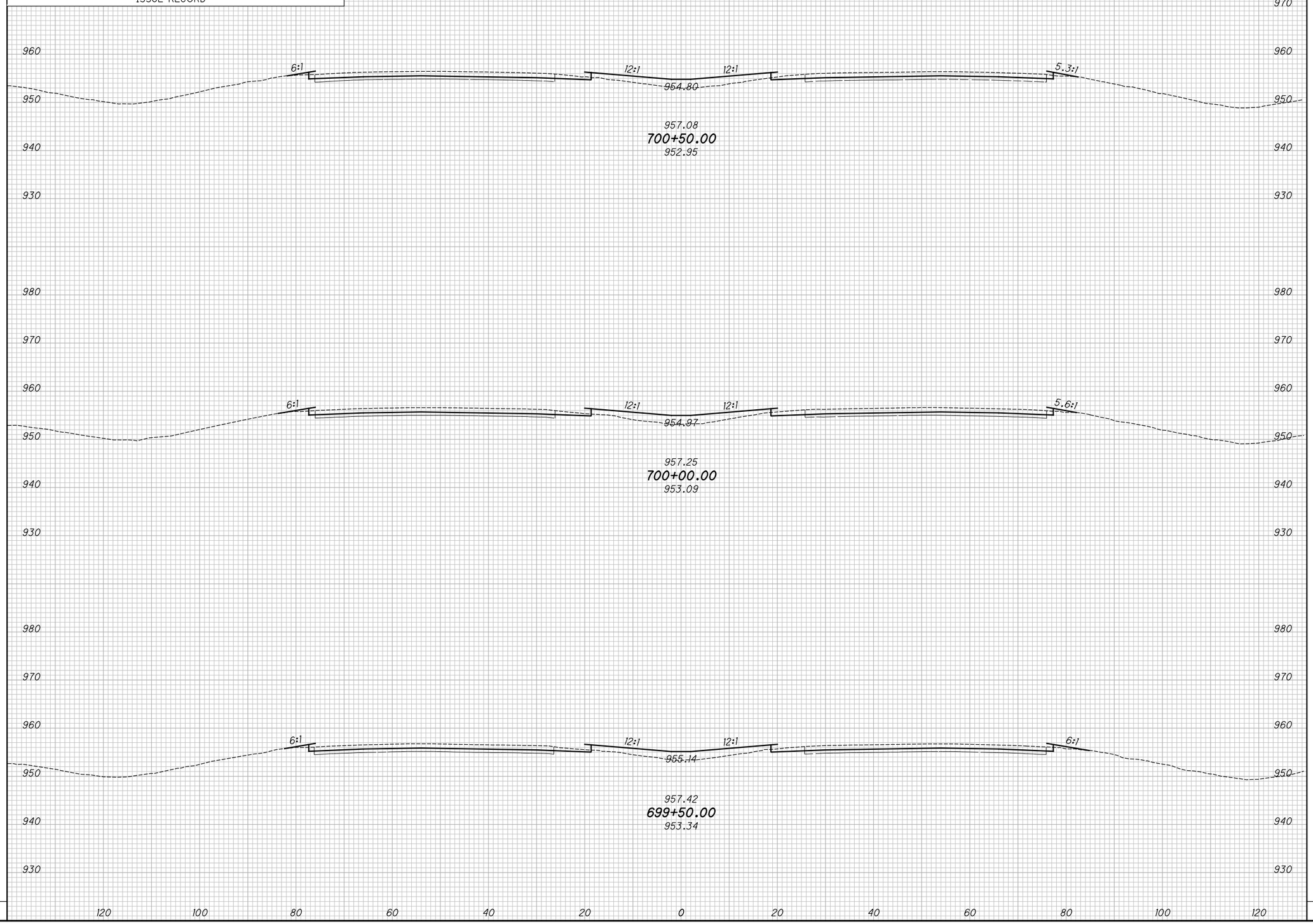
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

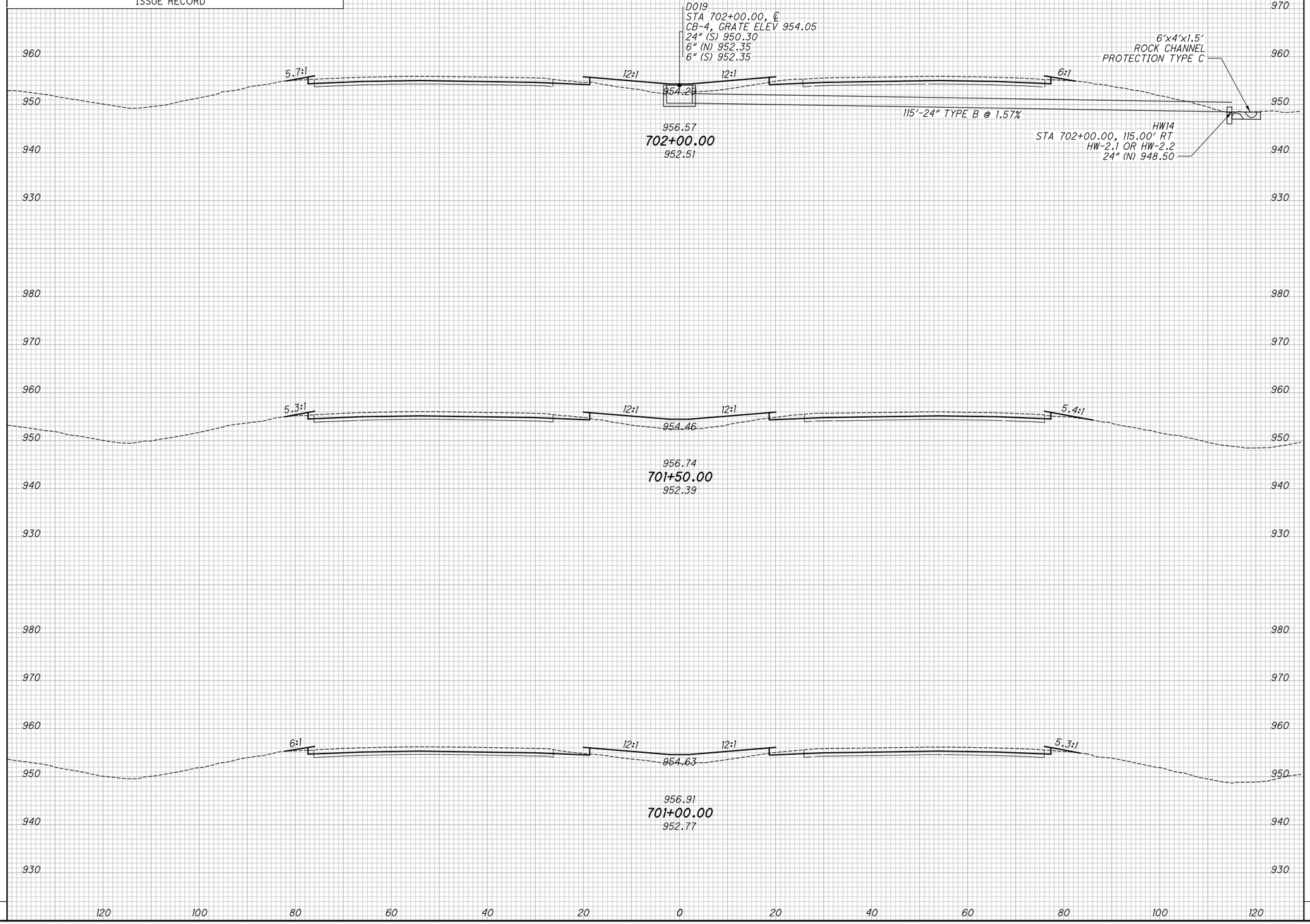
CROSS SECTIONS - IR 70
STA. 699+50.00 TO STA. 700+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_156 3/20/2019 9:47:56 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 701+00.00 TO STA. 702+00.00

MAD-70-8.62

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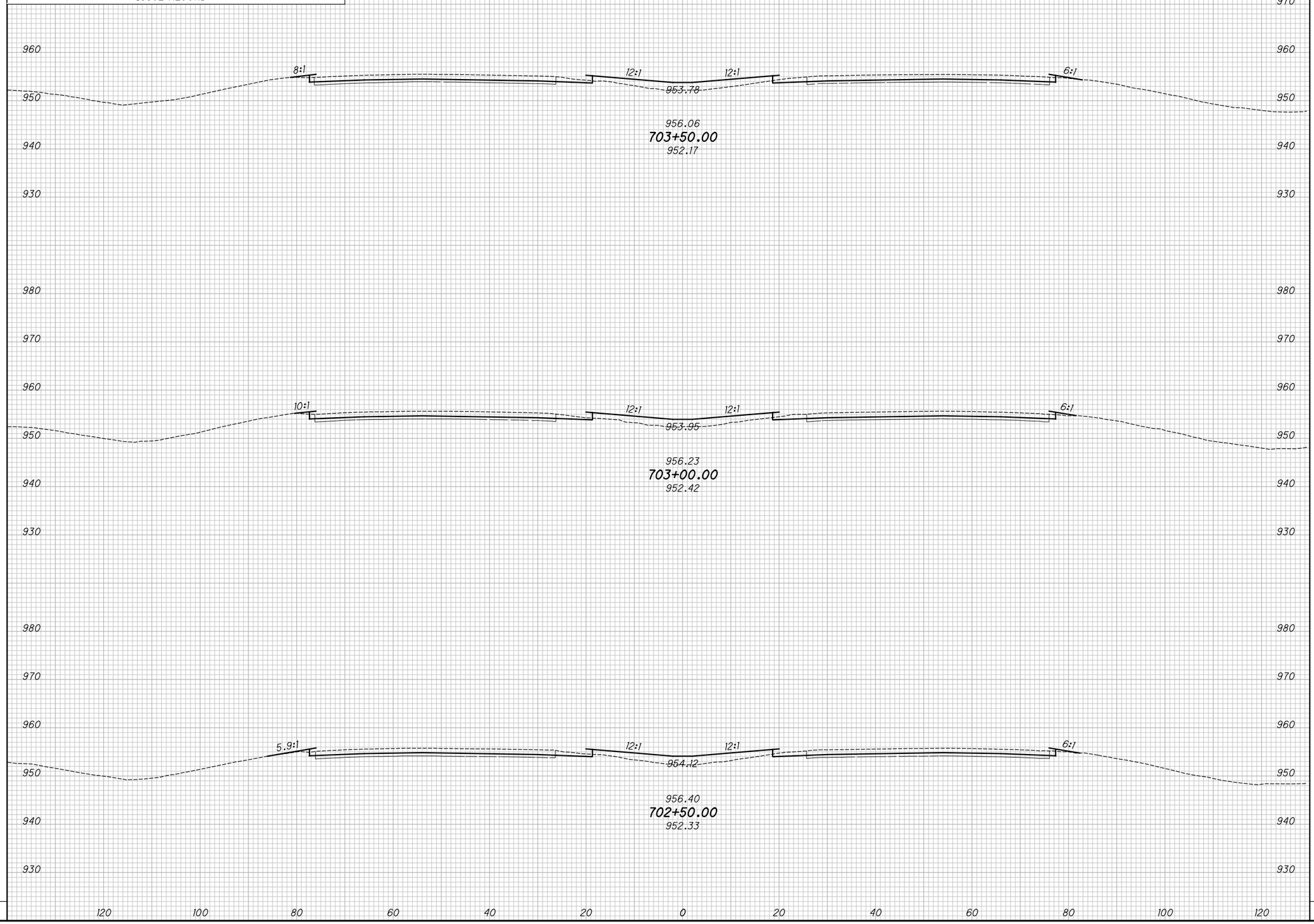
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

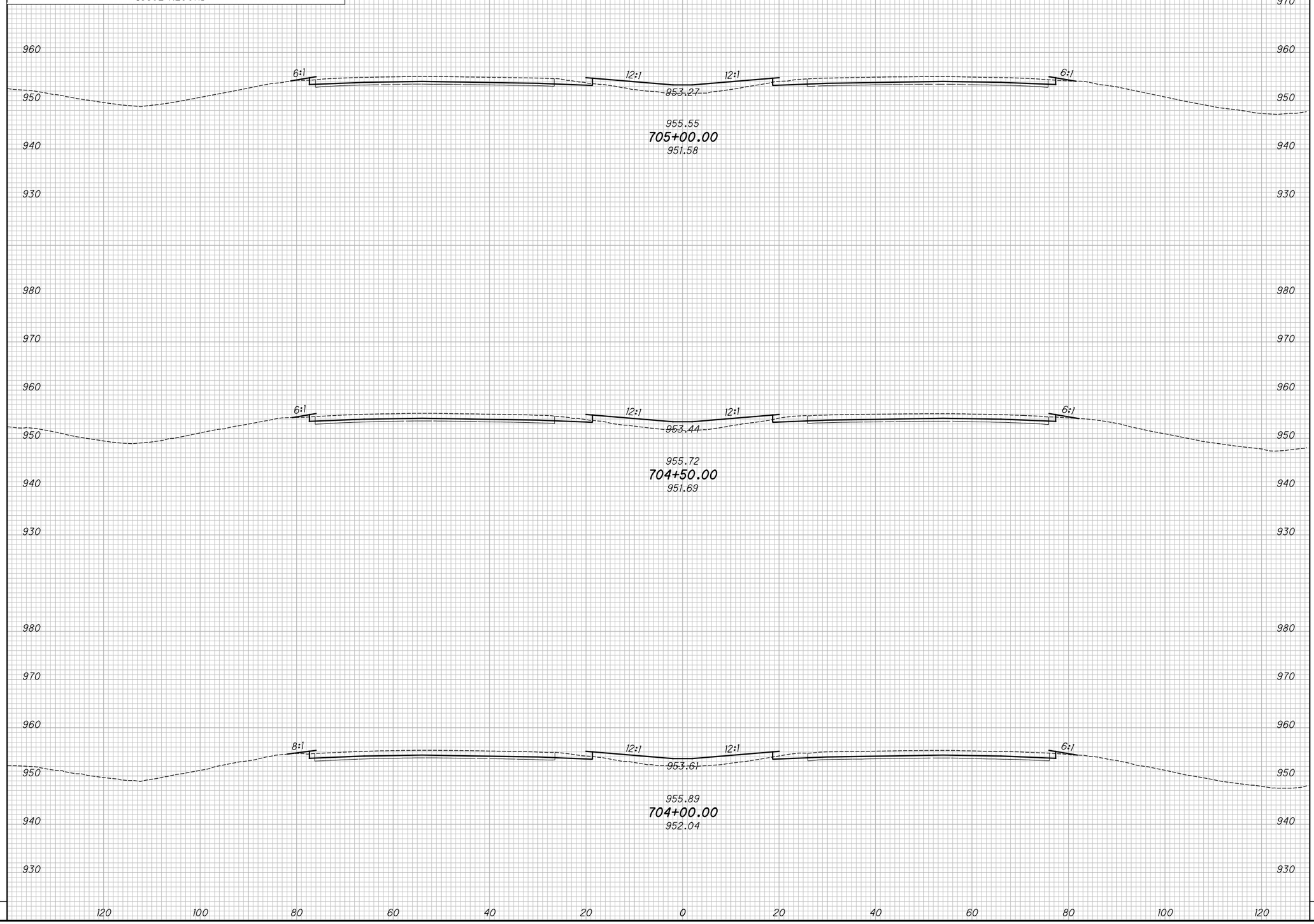
CROSS SECTIONS - IR 70
STA. 702+50.00 TO STA. 703+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_158 3/20/2019 9:48:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 704+00.00 TO STA. 705+00.00

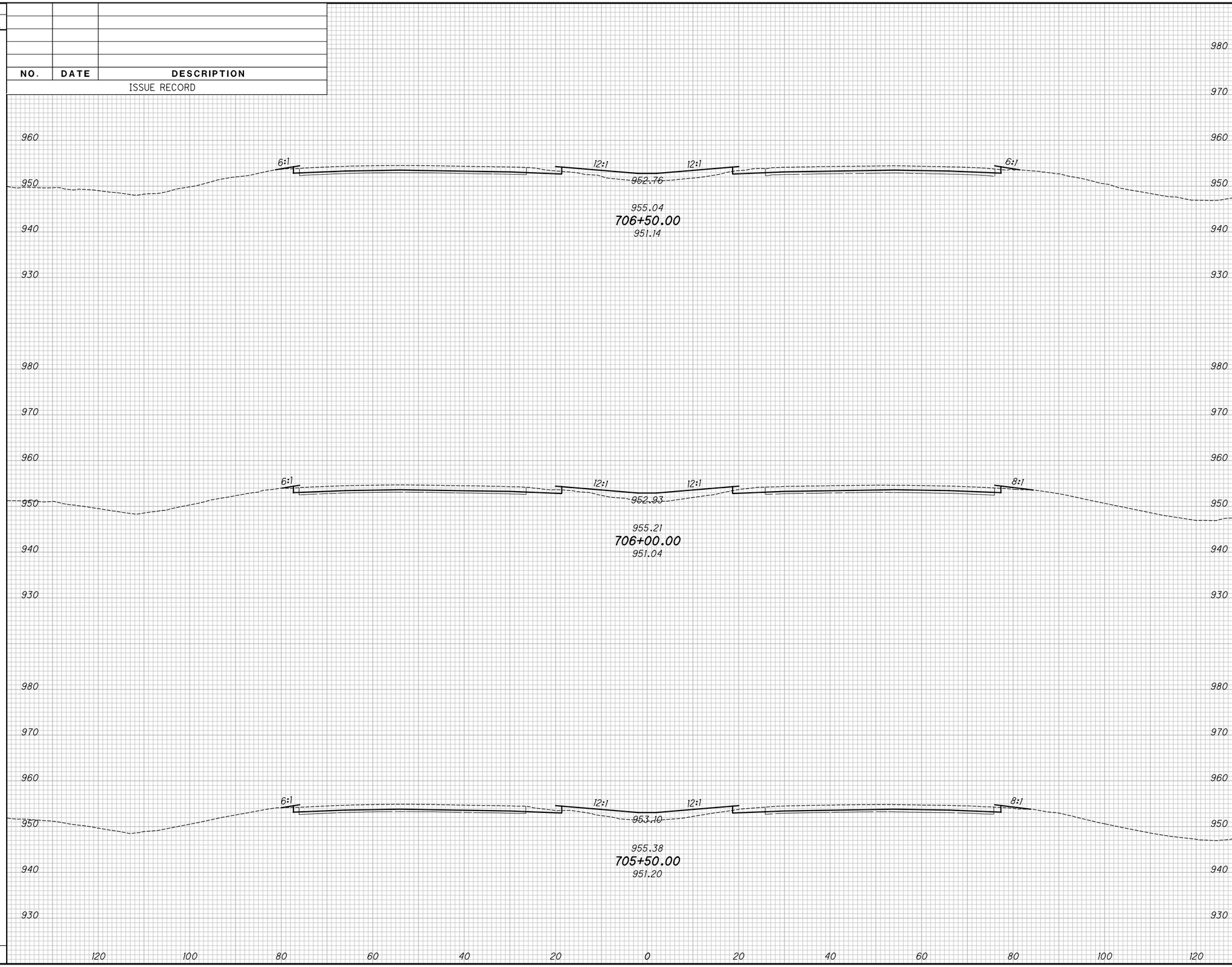
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_I59 3/20/2019 9:48:02 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 705+50.00 TO STA. 706+50.00

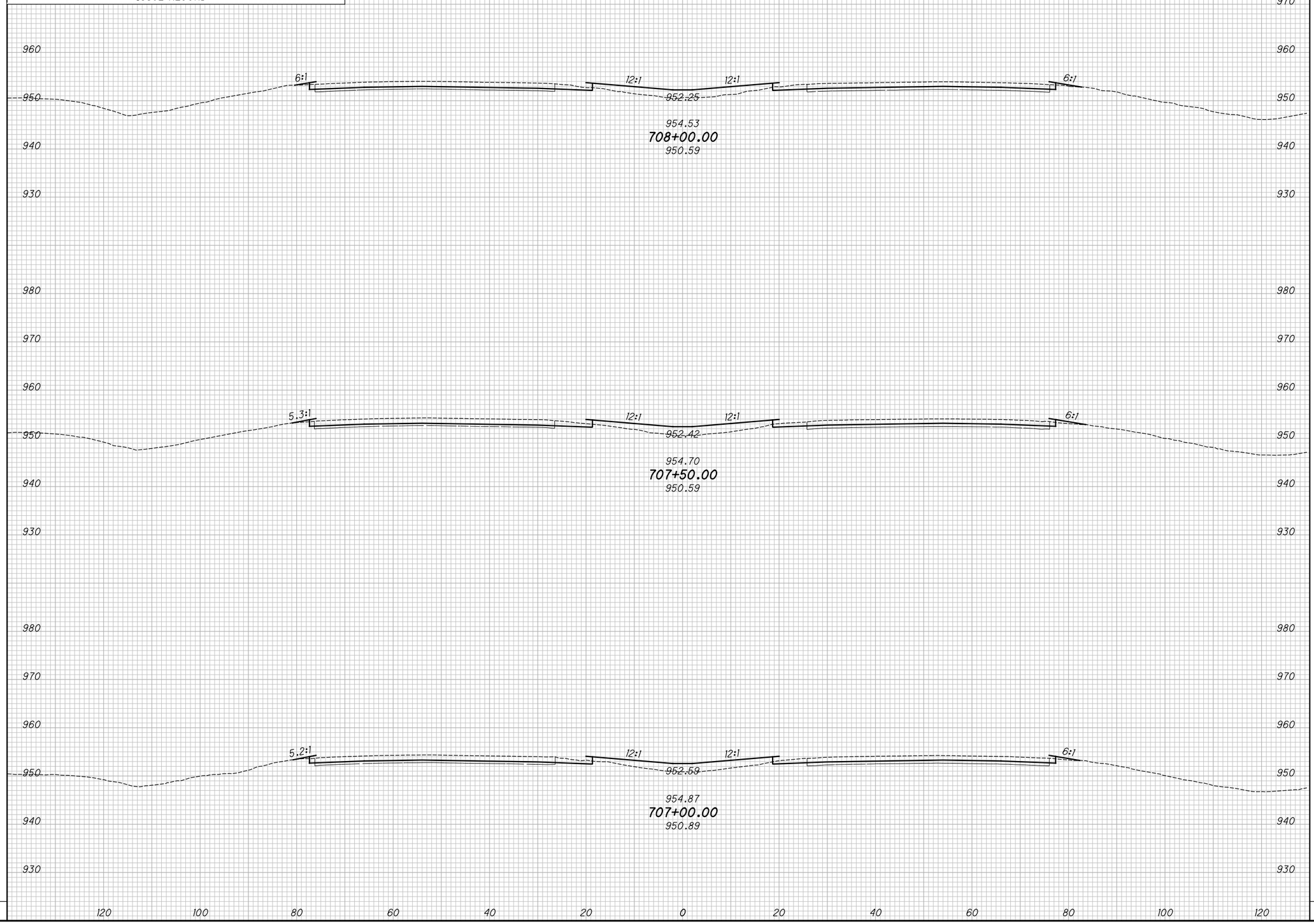
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_I60 3/20/2019 9:48:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 707+00.00 TO STA. 708+00.00

MAD-70-8.62

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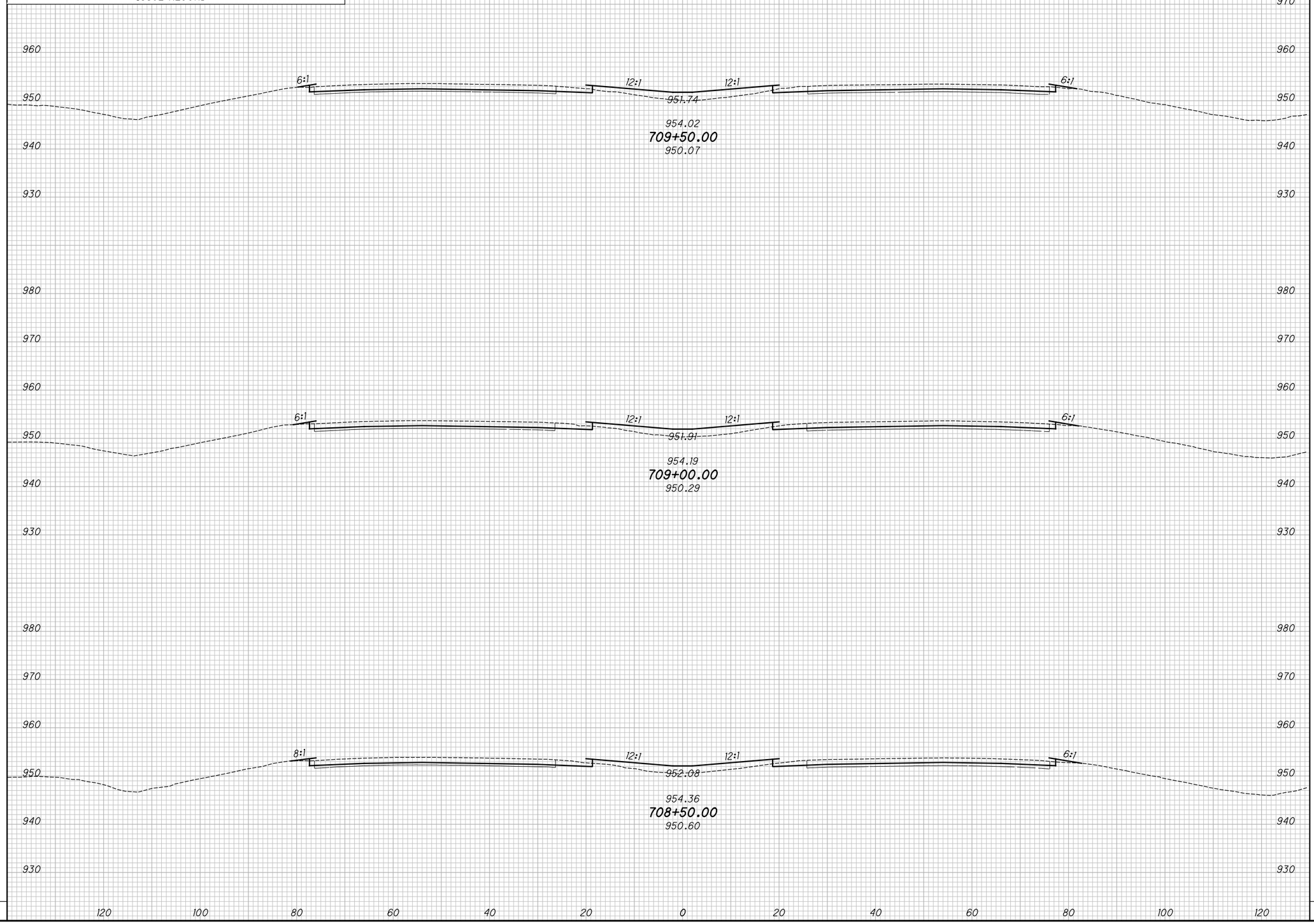
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 708+50.00 TO STA. 709+50.00

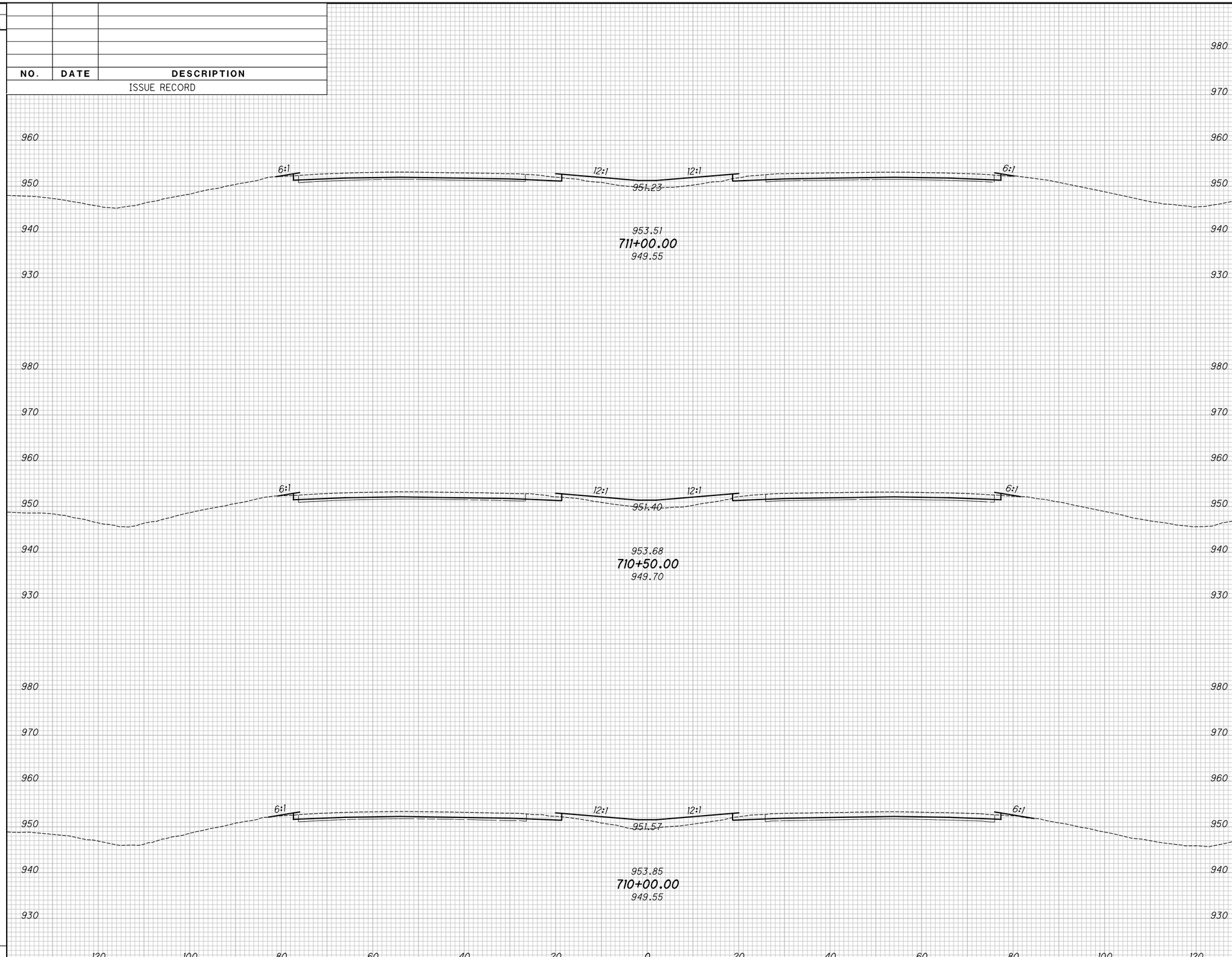
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_162 3/20/2019 9:48:08 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 710+00.00 TO STA. 711+00.00

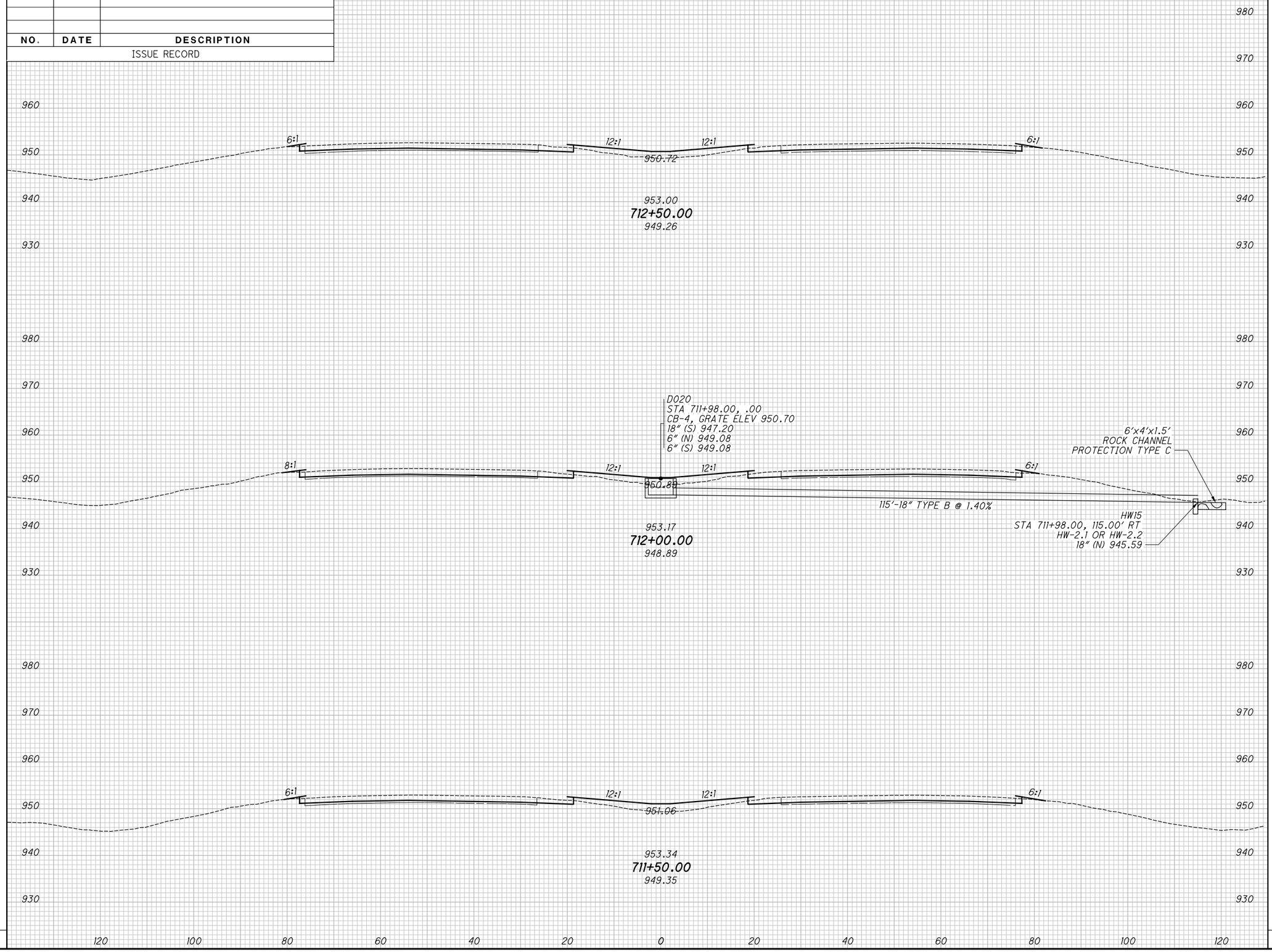
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name.163 3/20/2019 9:48:10 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 711+50.00 TO STA. 712+50.00

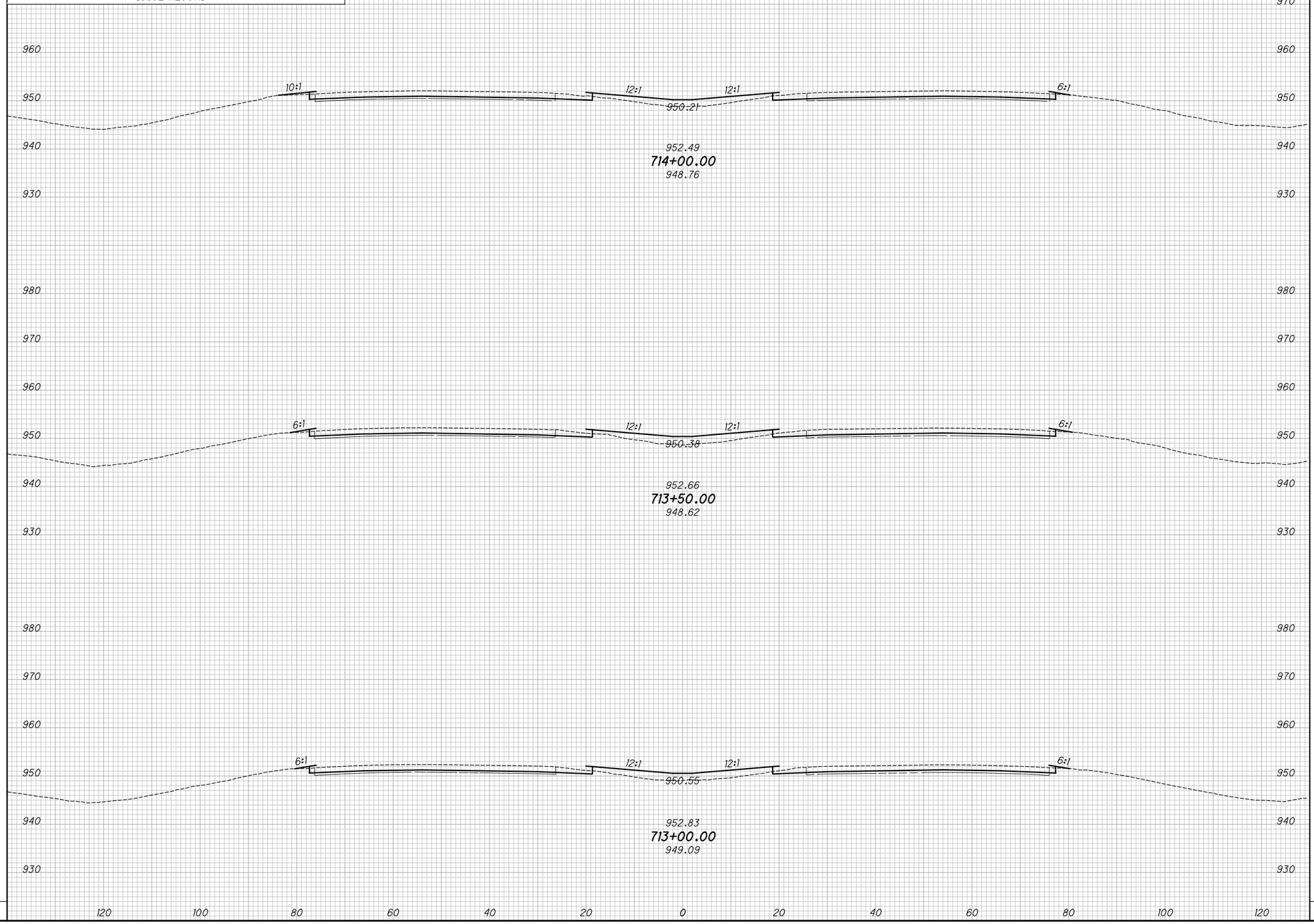
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_164 3/20/2019 9:48:12 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 713+00.00 TO STA. 714+00.00

MAD-70-8.62

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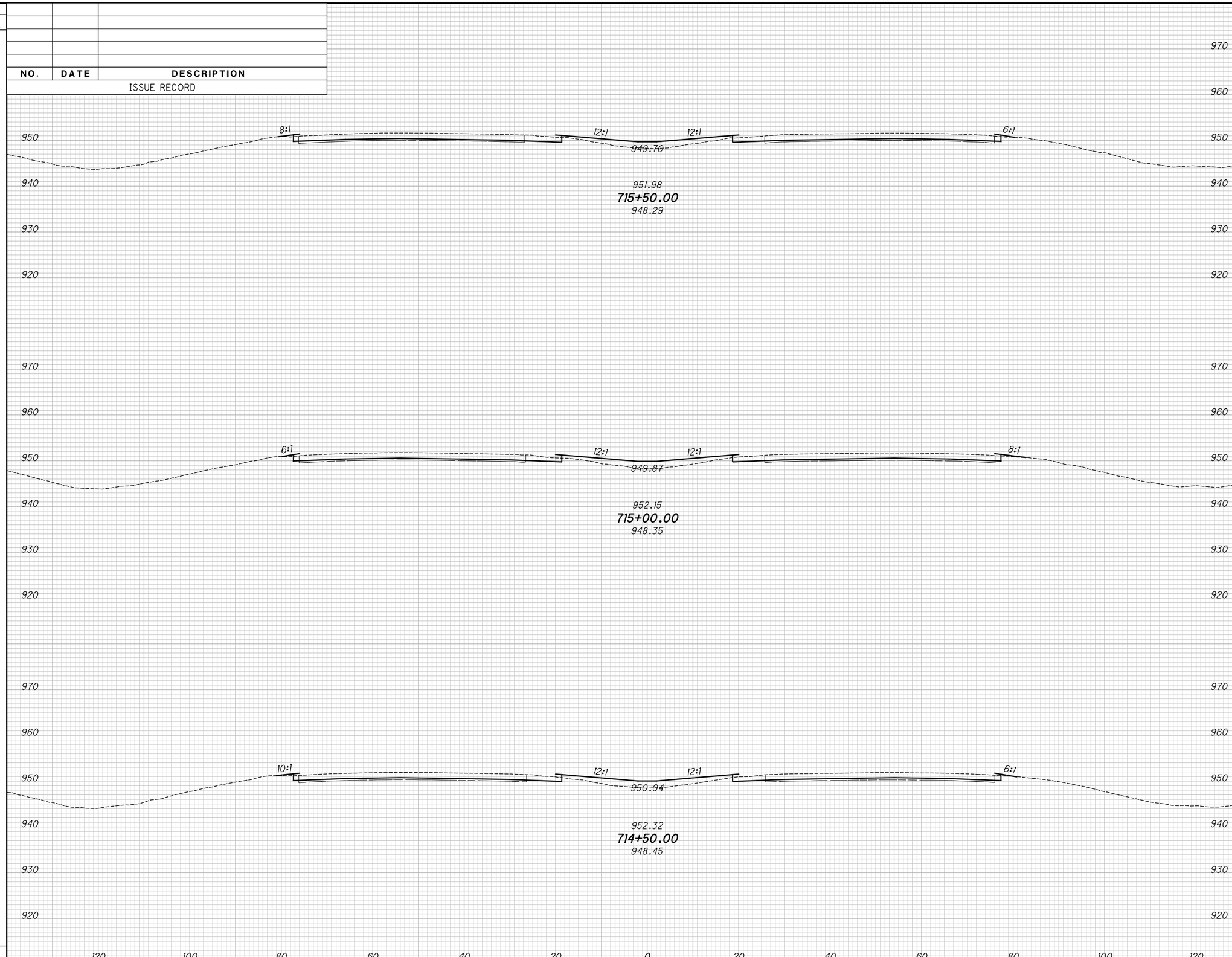
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 714+50.00 TO STA. 715+50.00

MAD-70-8.62

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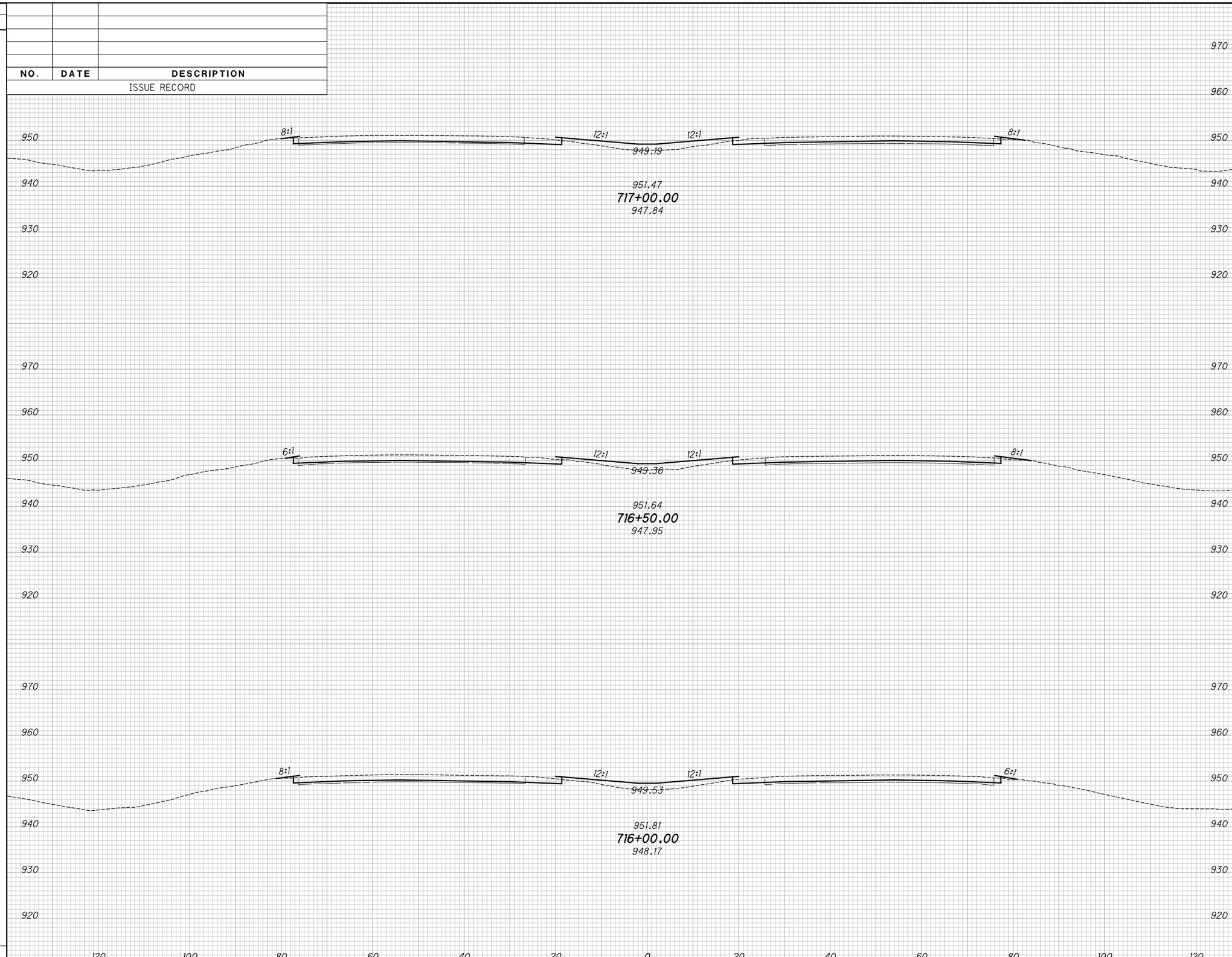
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 716+00.00 TO STA. 717+00.00

MAD-70-8.62

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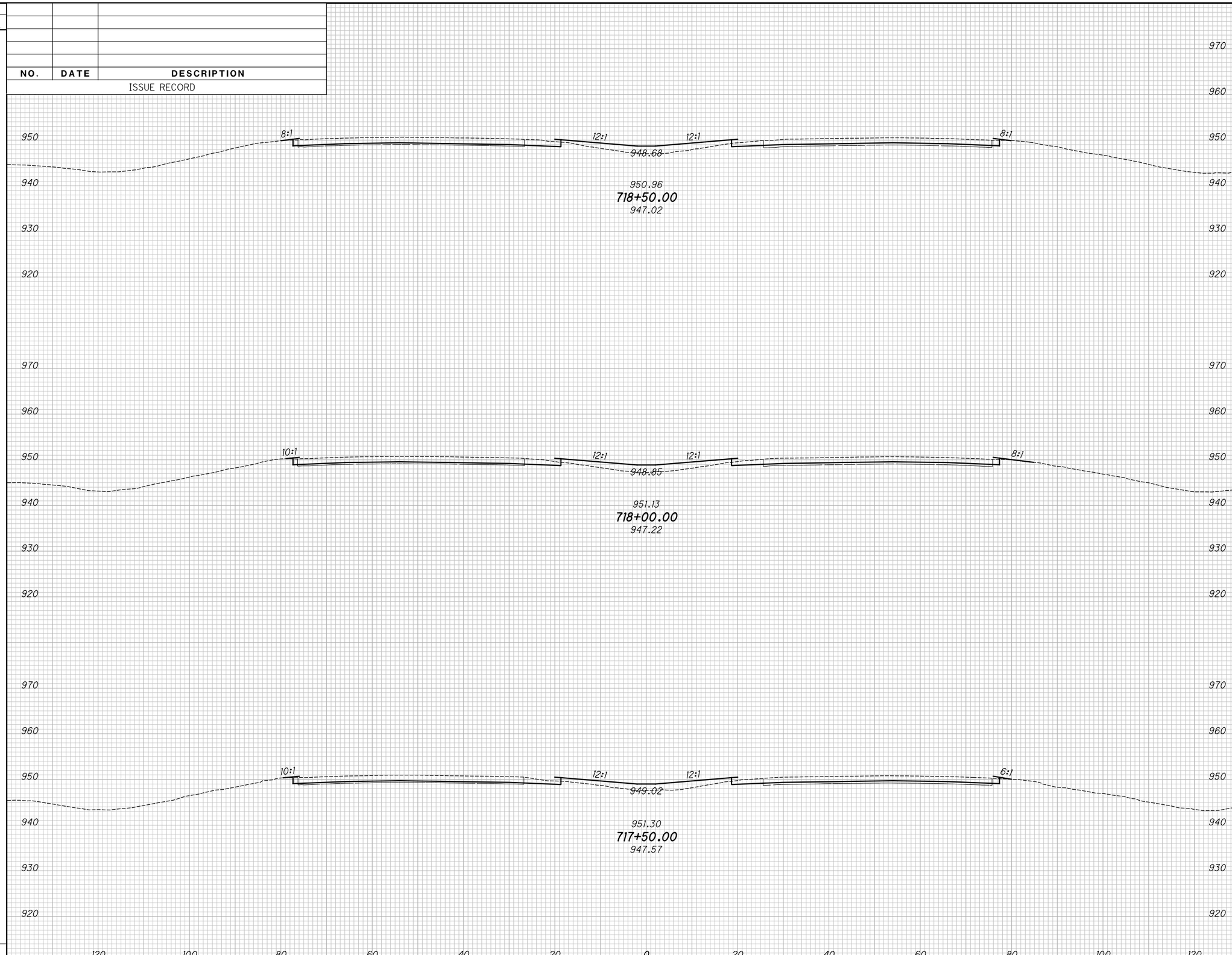
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

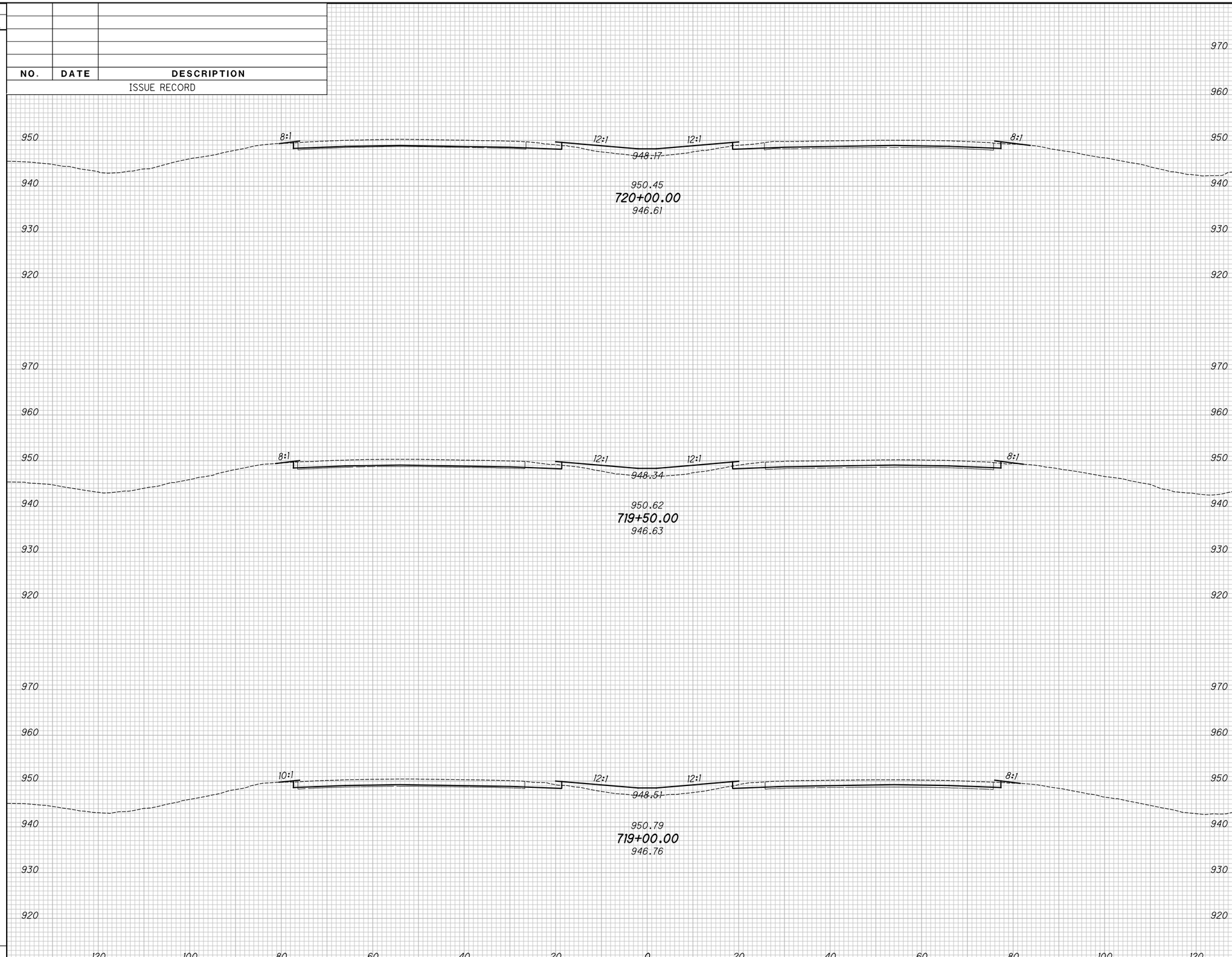
STA. 717+50.00 TO STA. 718+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_168 3/20/2019 9:48:20 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 719+00.00 TO STA. 720+00.00

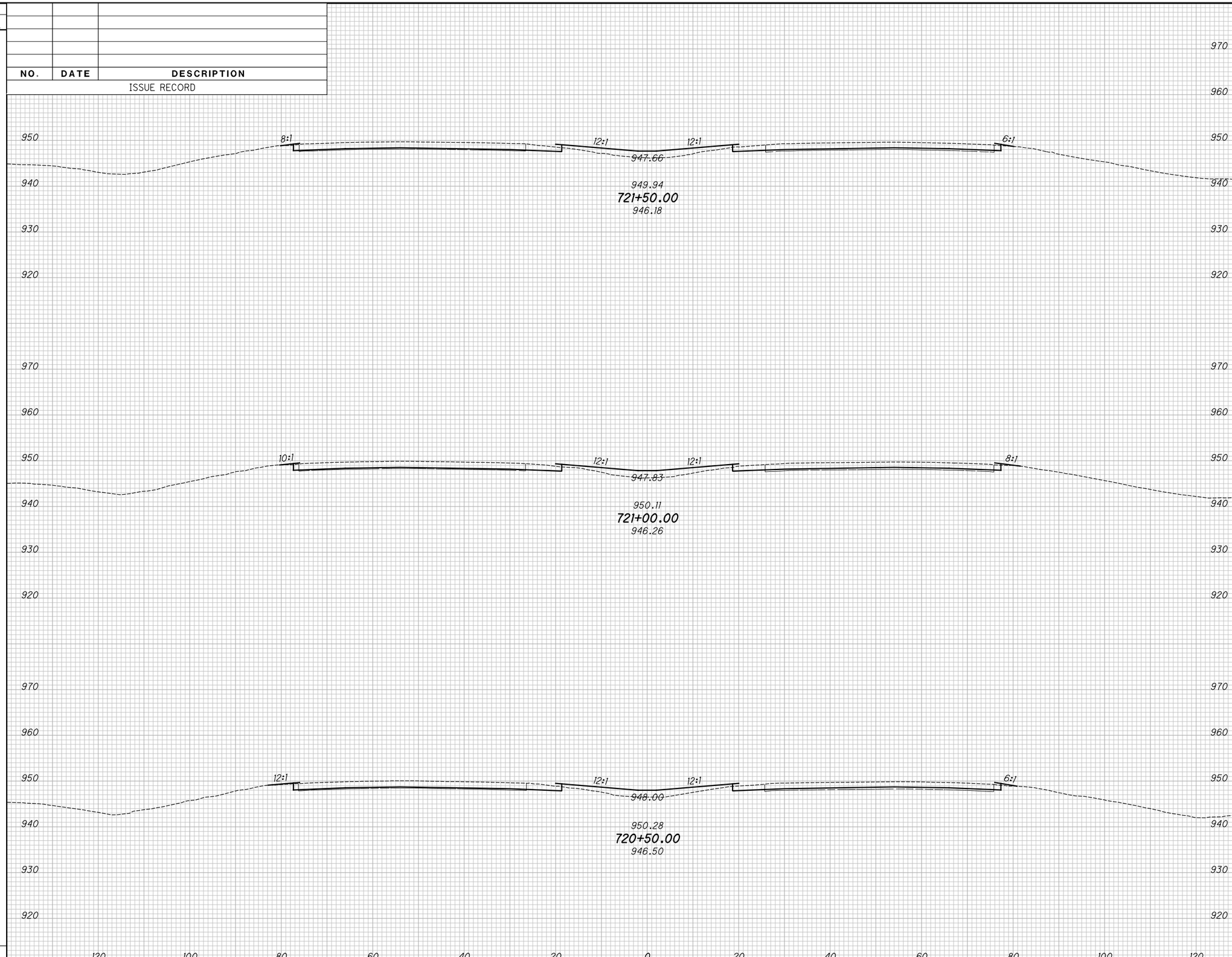
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_169 3/20/2019 9:48:22 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 720+50.00 TO STA. 721+50.00

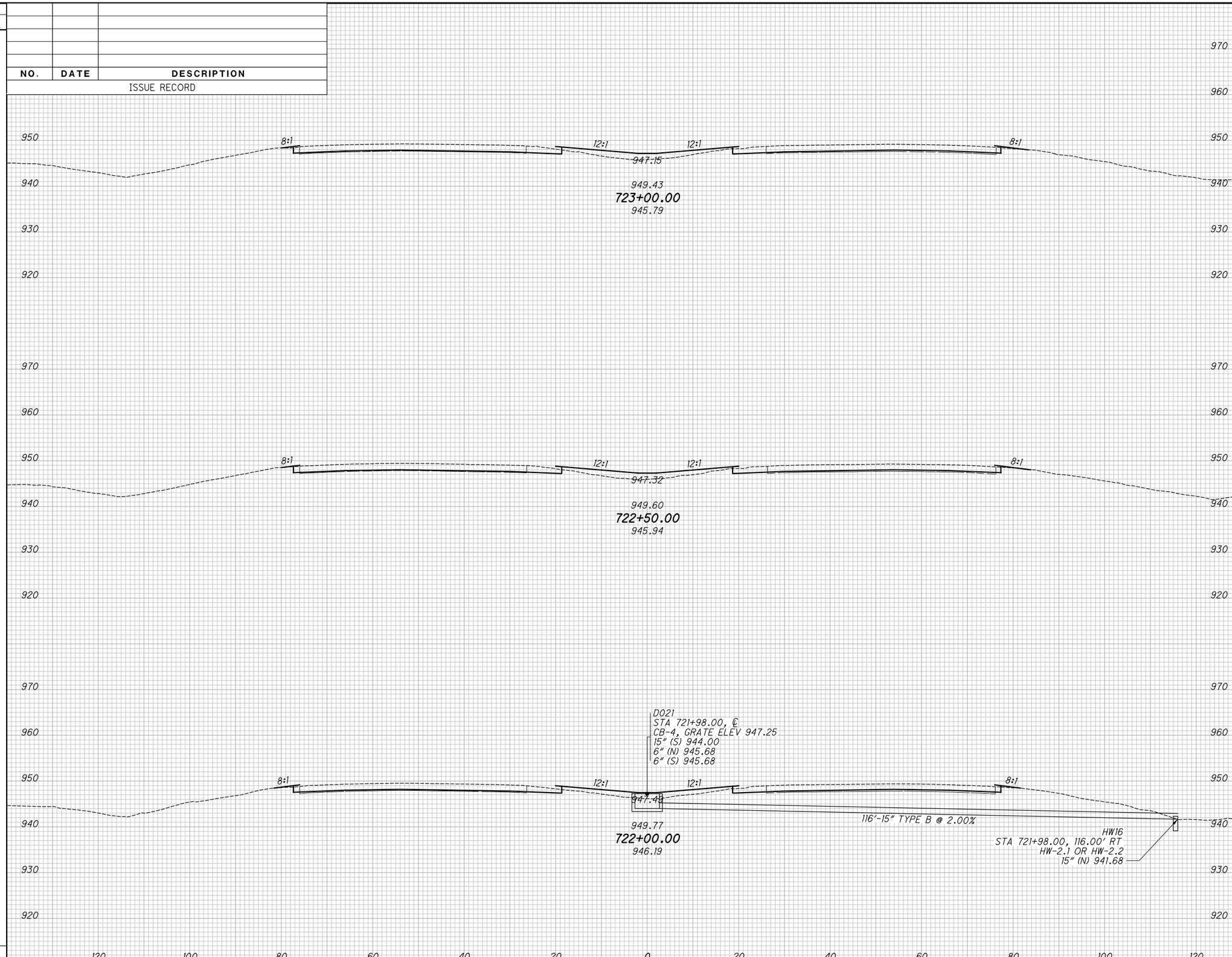
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_I70 3/20/2019 9:48:24 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 722+00.00 TO STA. 723+00.00

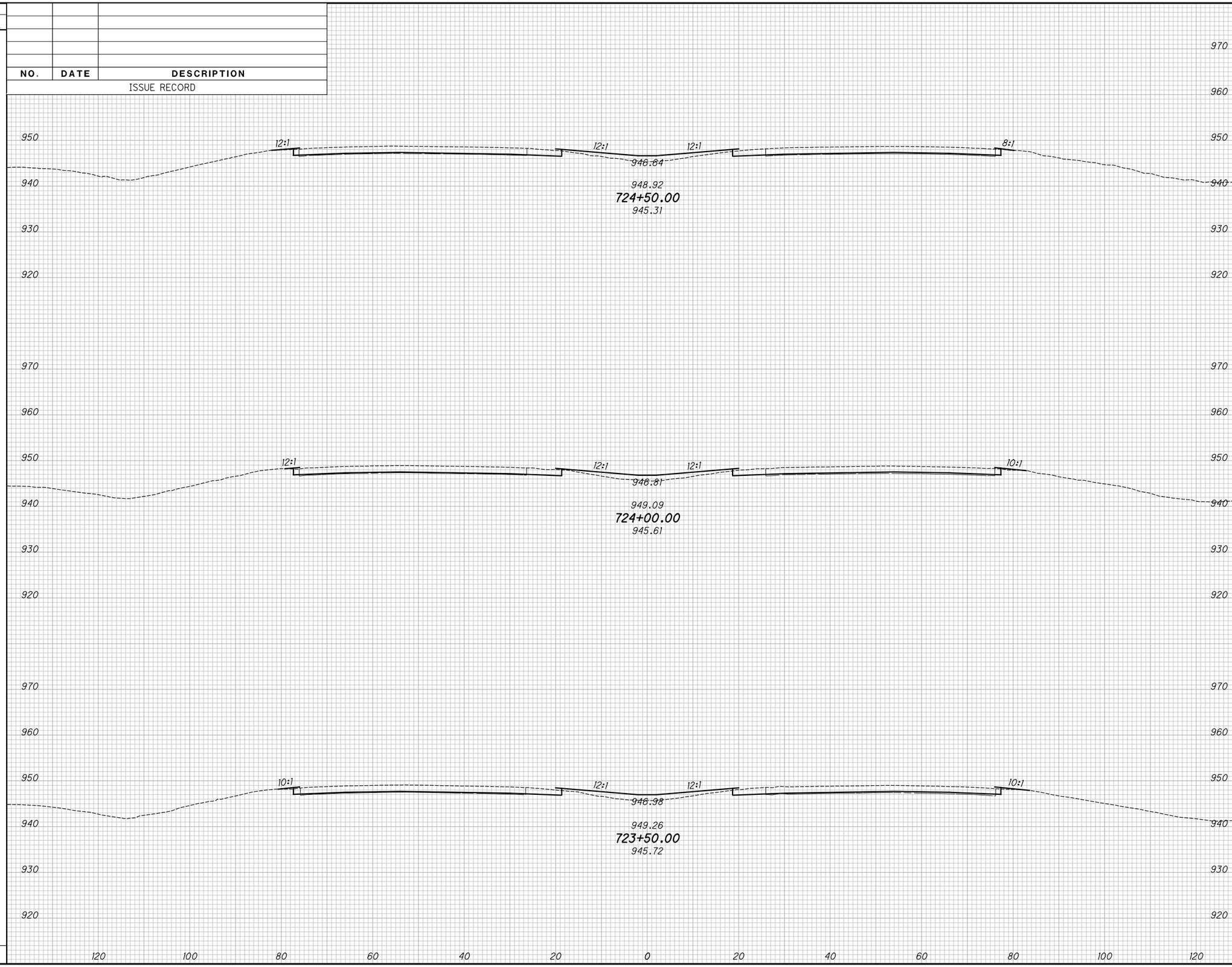
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_171 3/20/2019 9:48:26 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

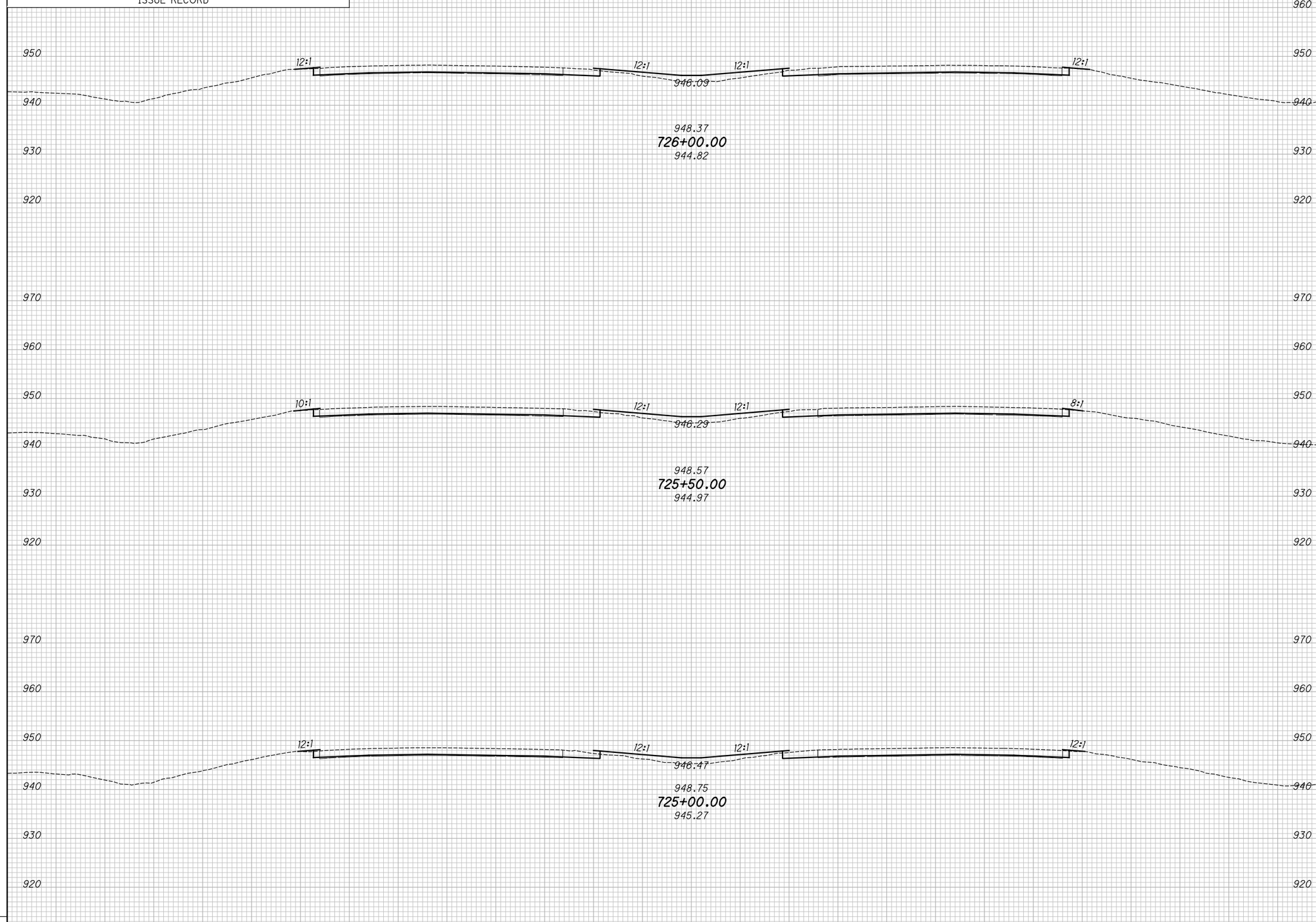
STA. 723+50.00 TO STA. 724+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_172 3/20/2019 9:48:28 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 725+00.00 TO STA. 726+00.00

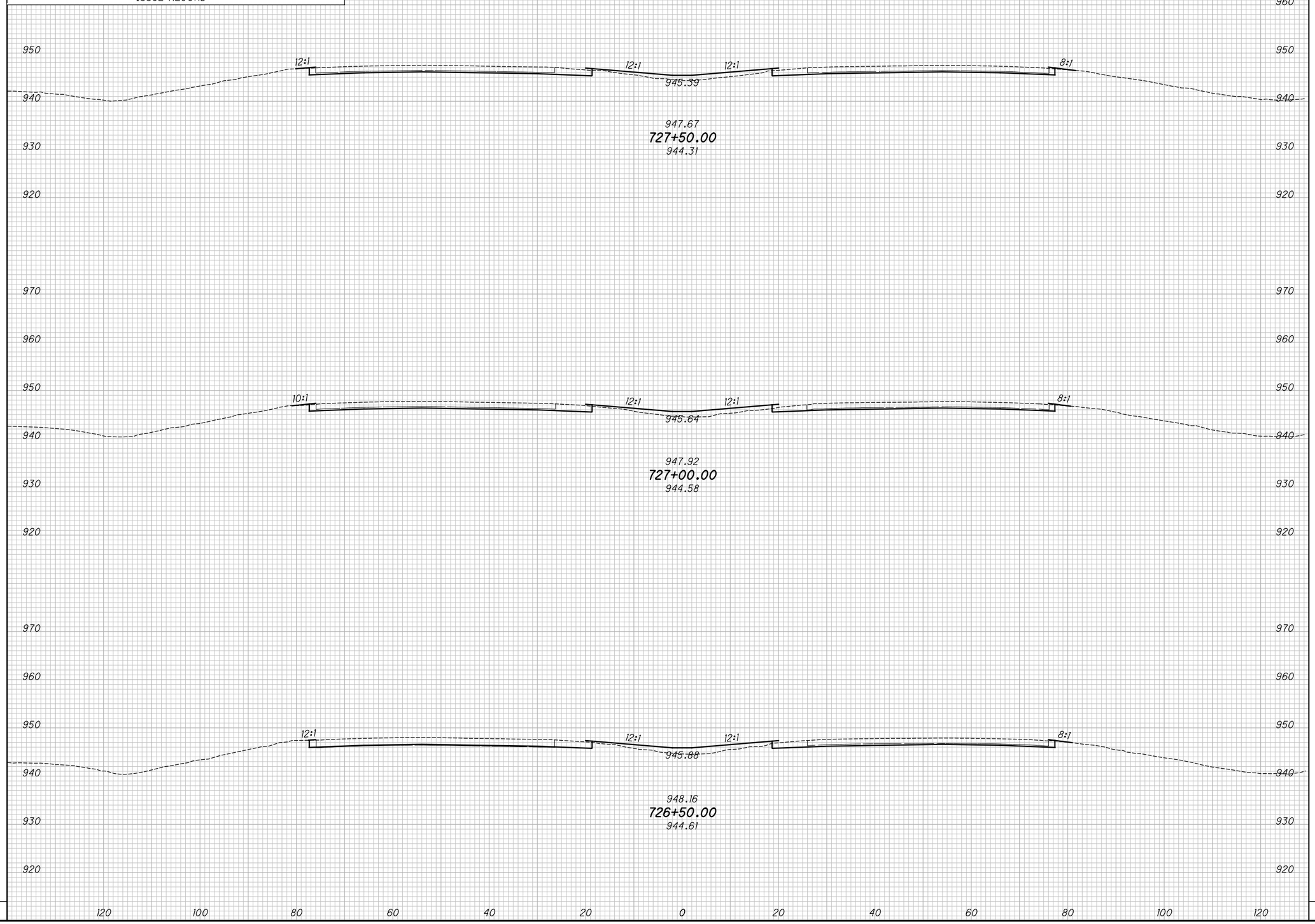
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_173 3/20/2019 9:48:30 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 726+50.00 TO STA. 727+50.00

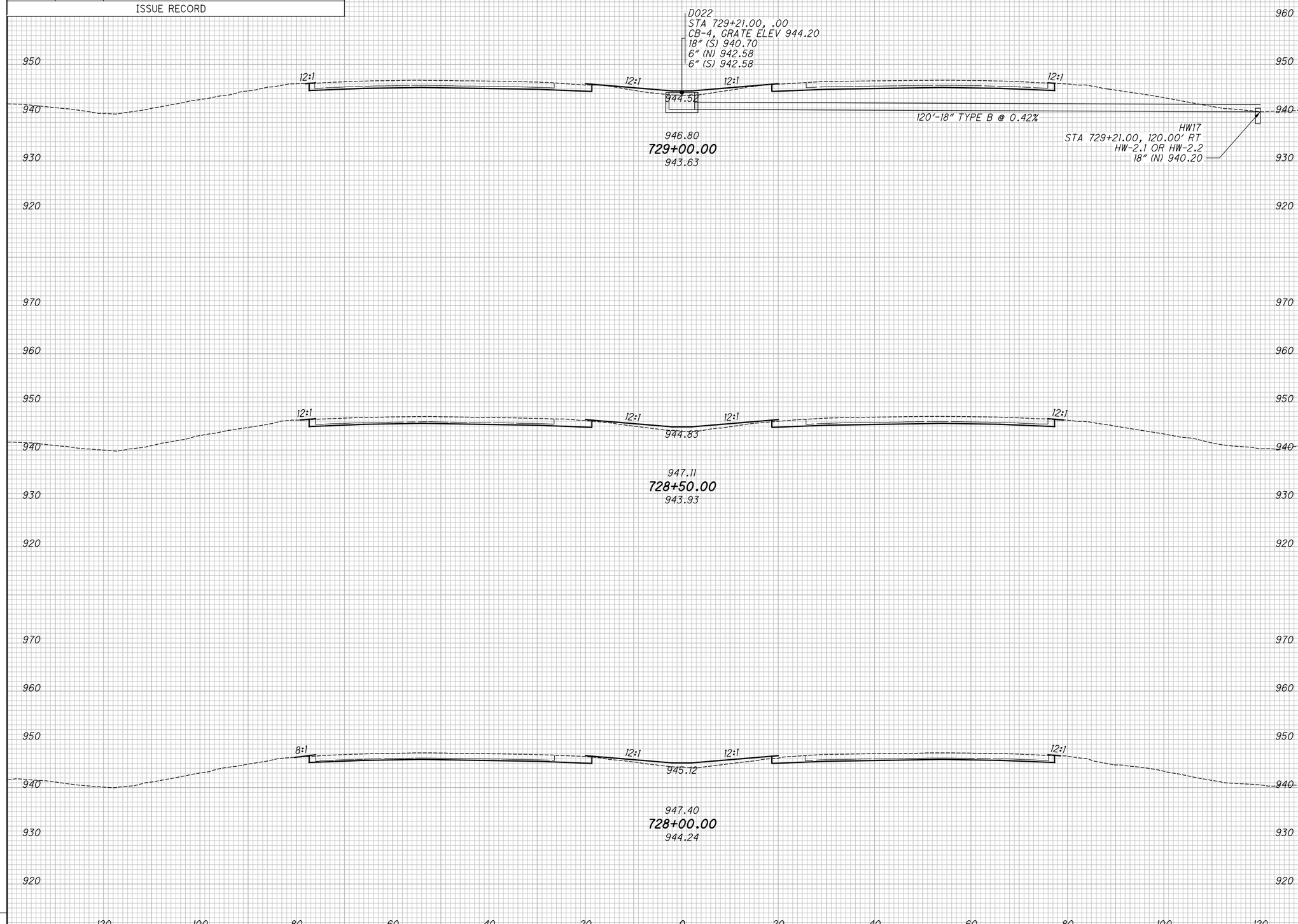
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_174 3/20/2019 9:48:32 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

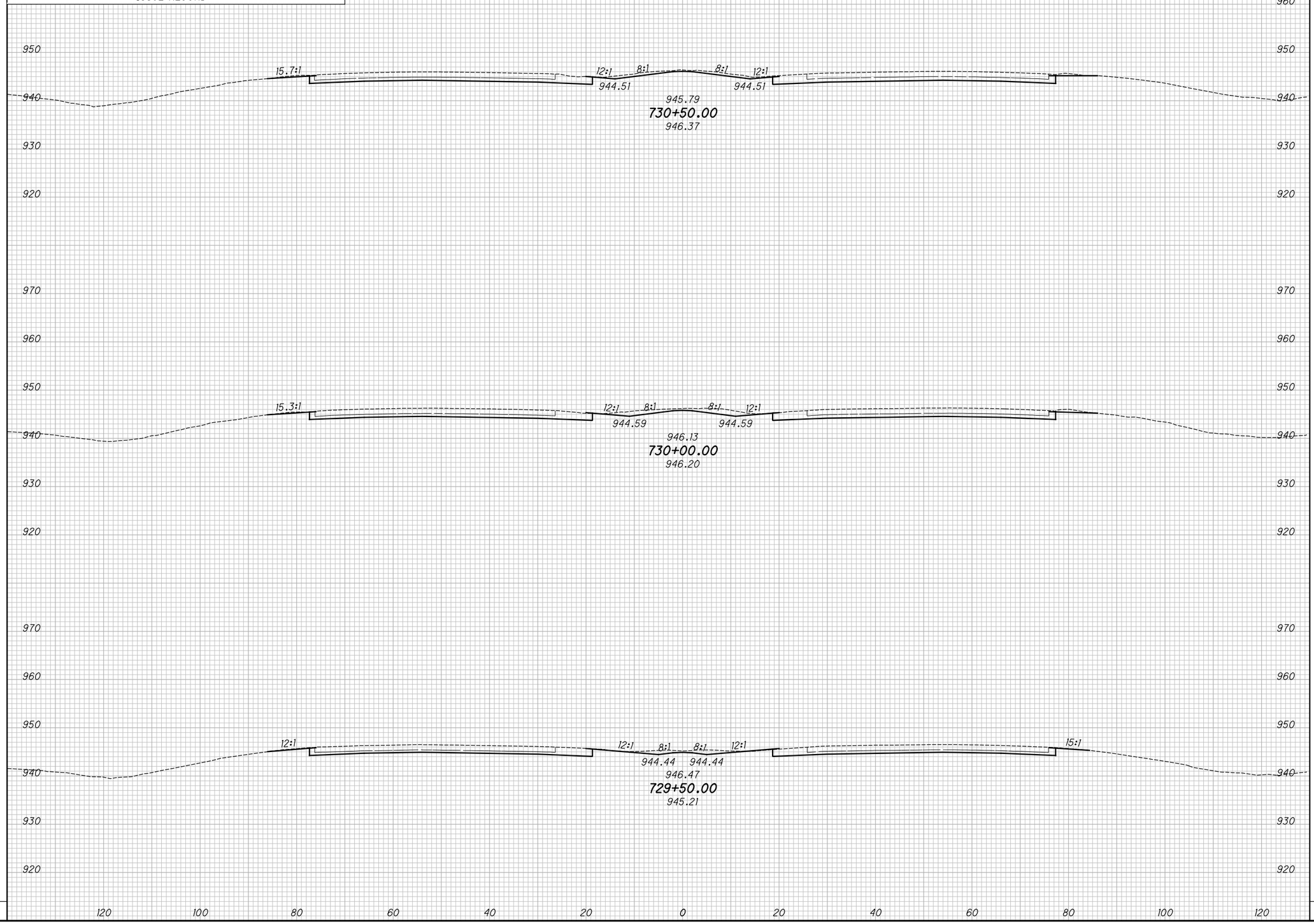
CROSS SECTIONS - IR 70
STA. 728+00.00 TO STA. 729+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_175 3/20/2019 9:48:34 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 729+50.00 TO STA. 730+50.00

MAD-70-8.62

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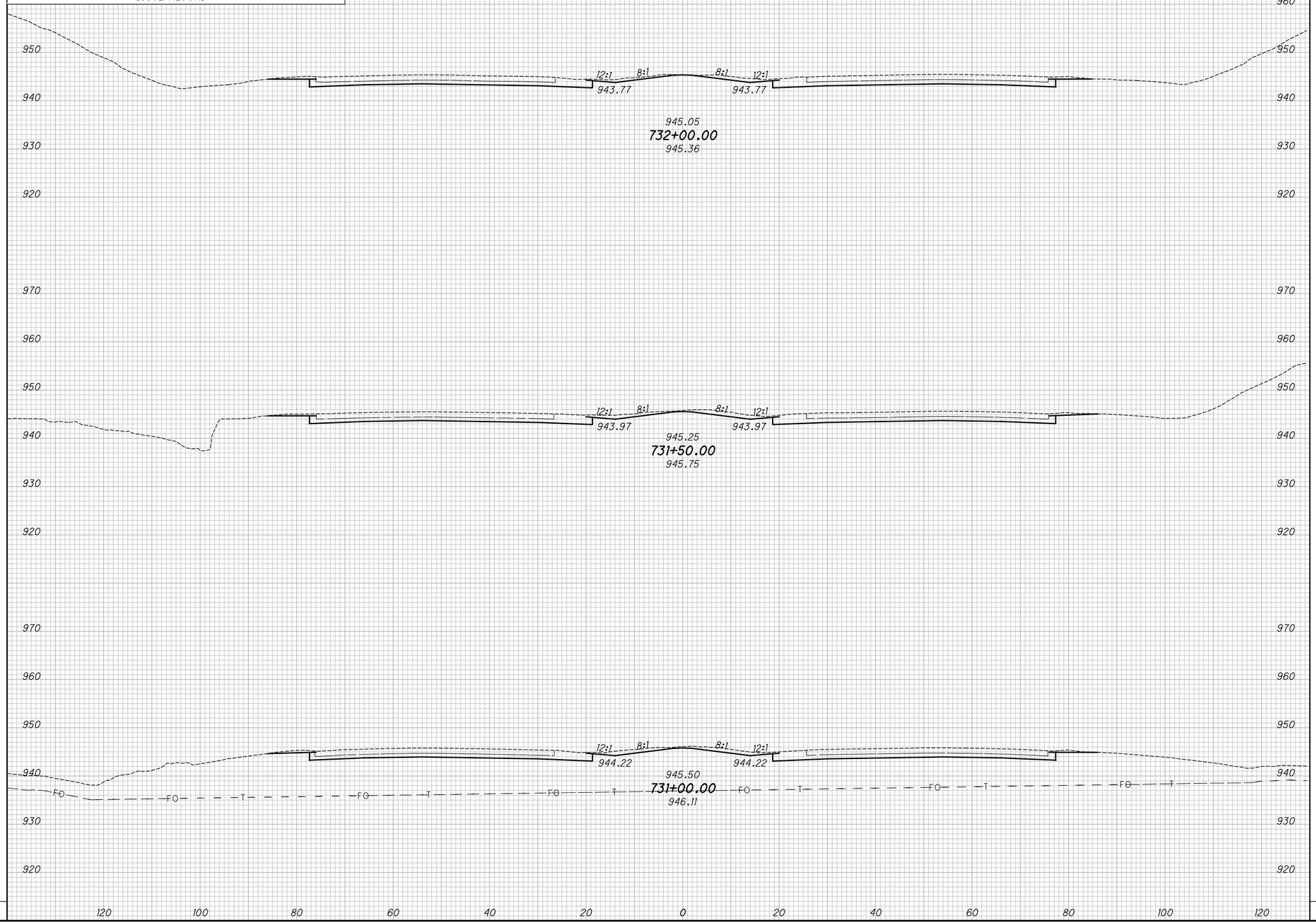
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 731+00.00 TO STA. 732+00.00

MAD-70-8.62

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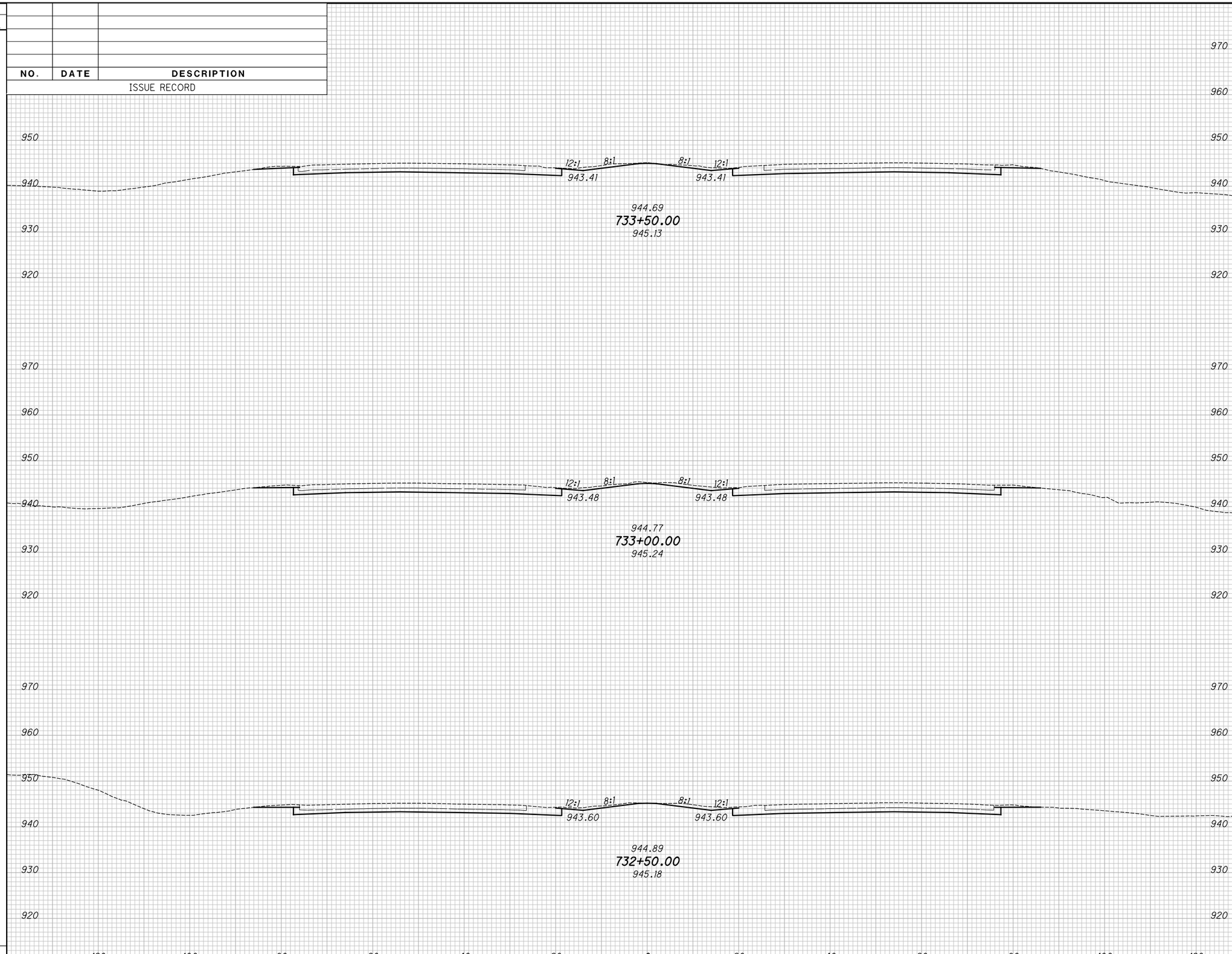
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 732+50.00 TO STA. 733+50.00

MAD-70-8.62

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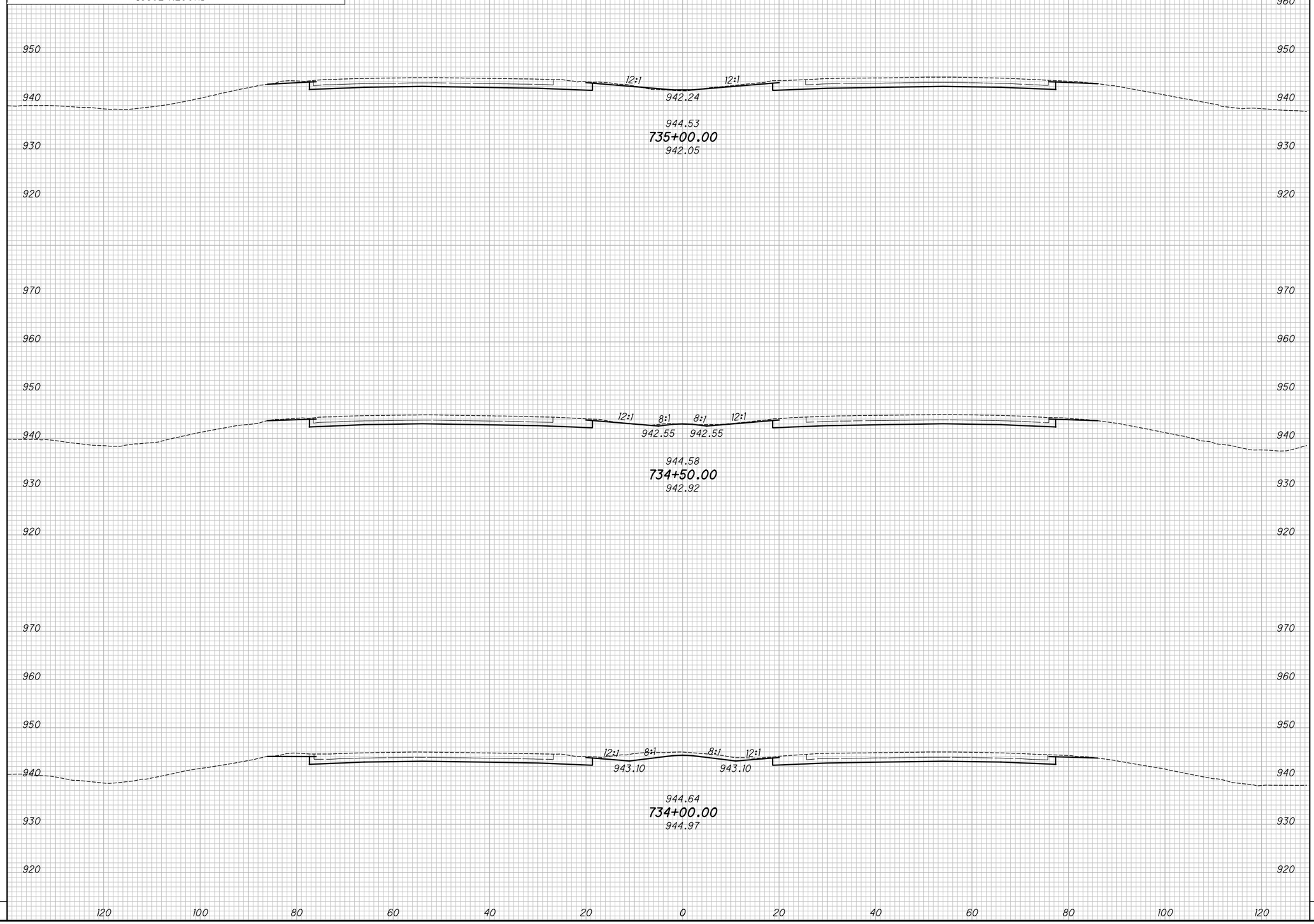
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 734+00.00 TO STA. 735+00.00

MAD-70-8.62

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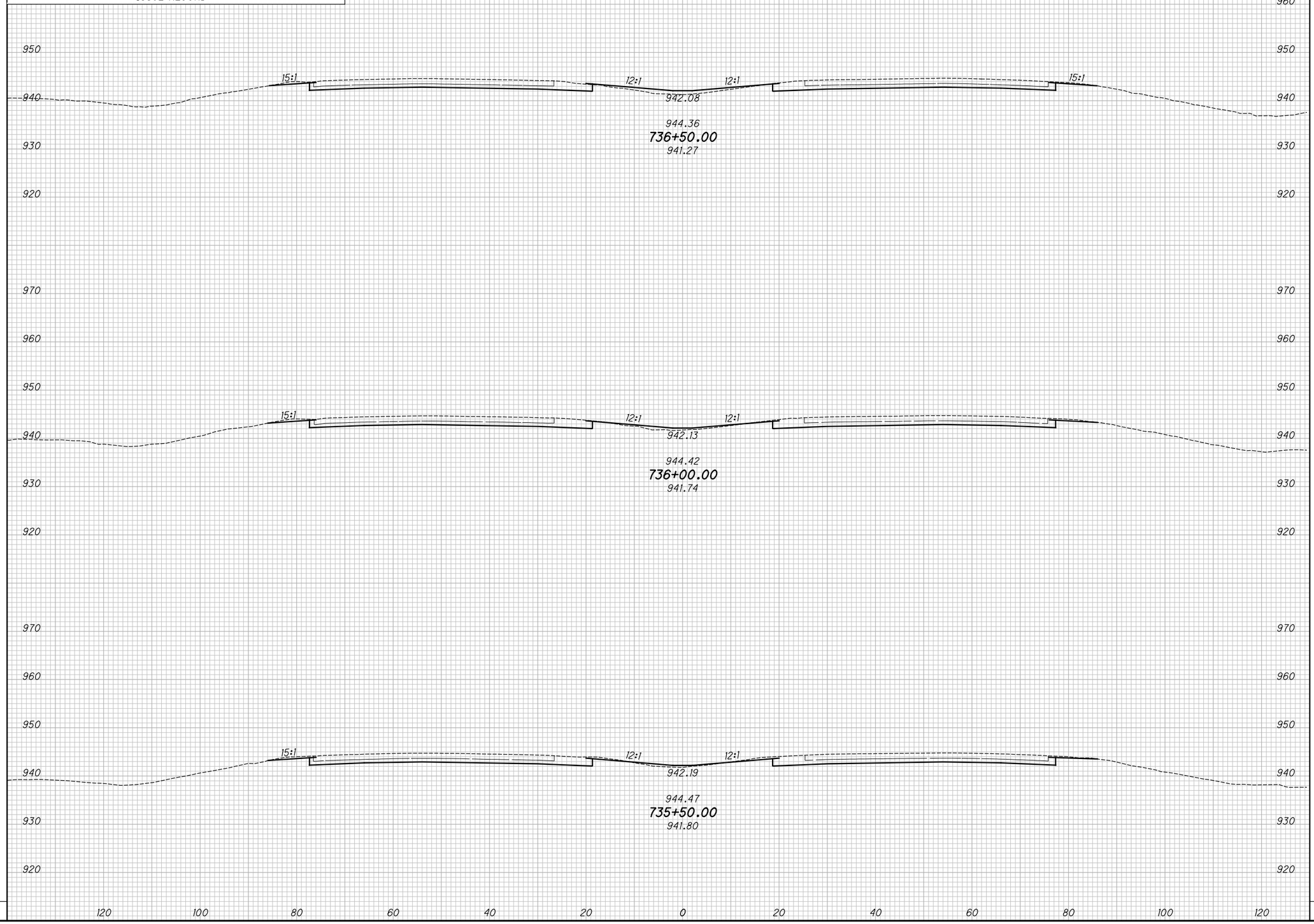
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 735+50.00 TO STA. 736+50.00

MAD-70-8.62

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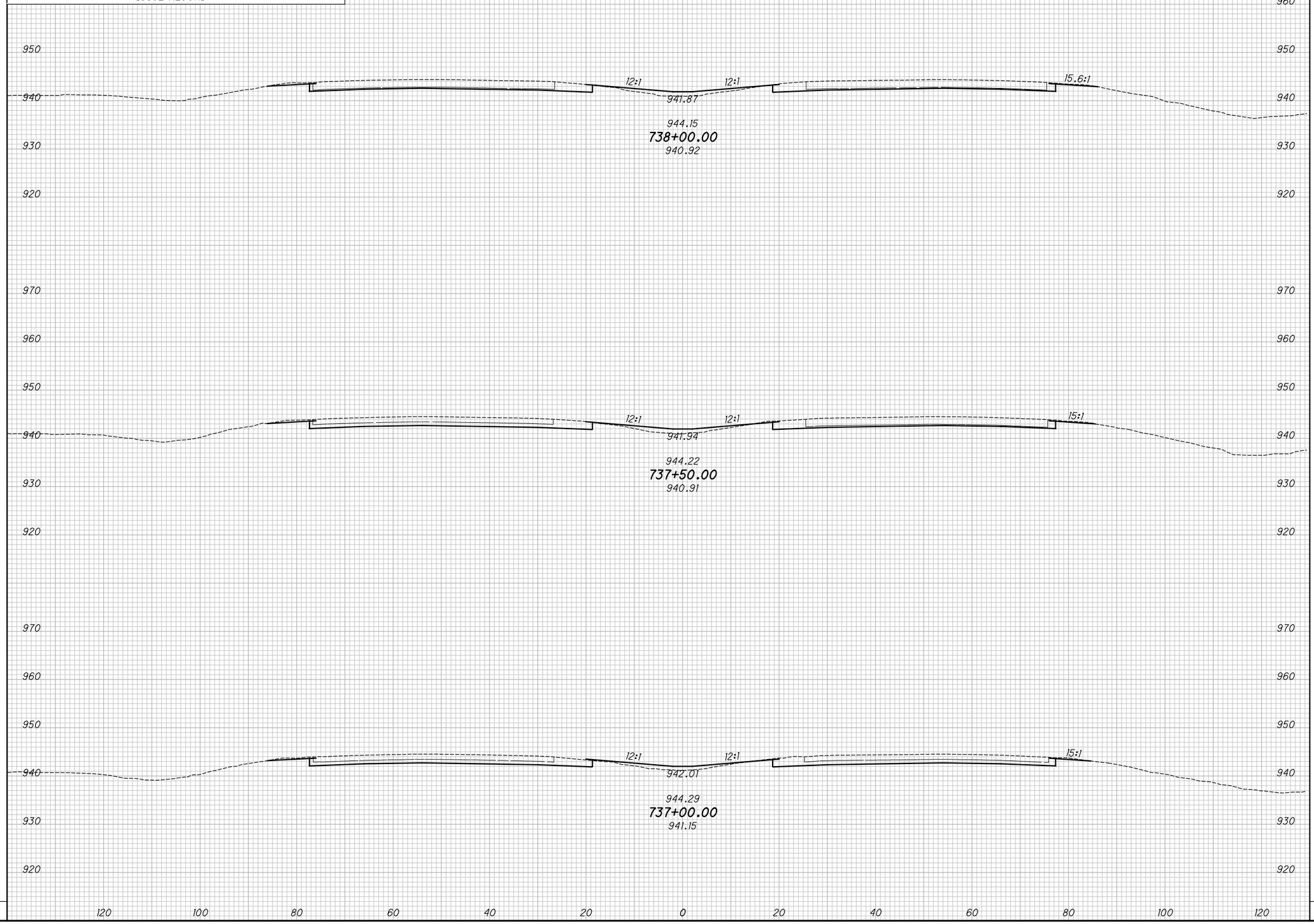
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 737+00.00 TO STA. 738+00.00

MAD-70-8.62

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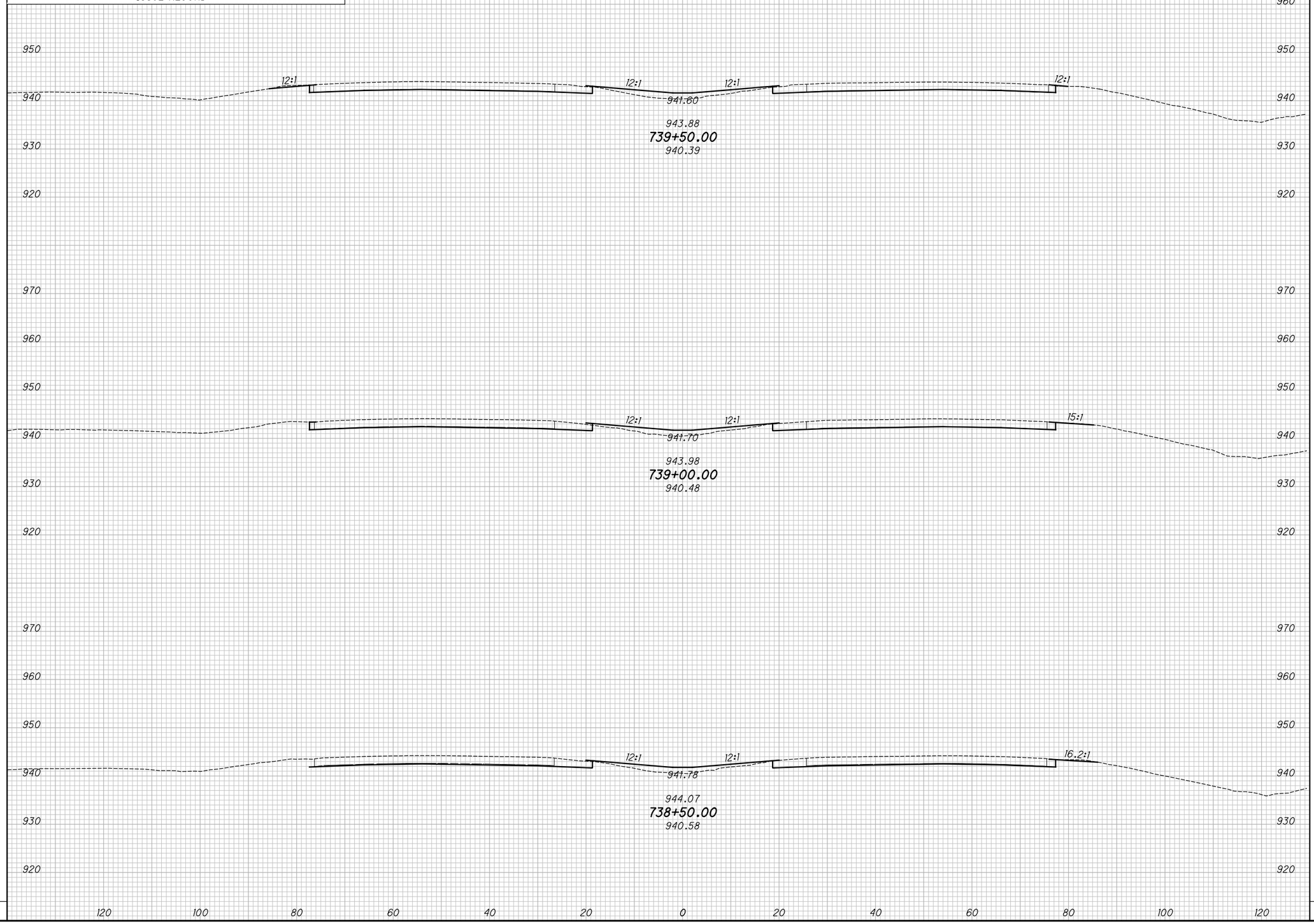
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 738+50.00 TO STA. 739+50.00

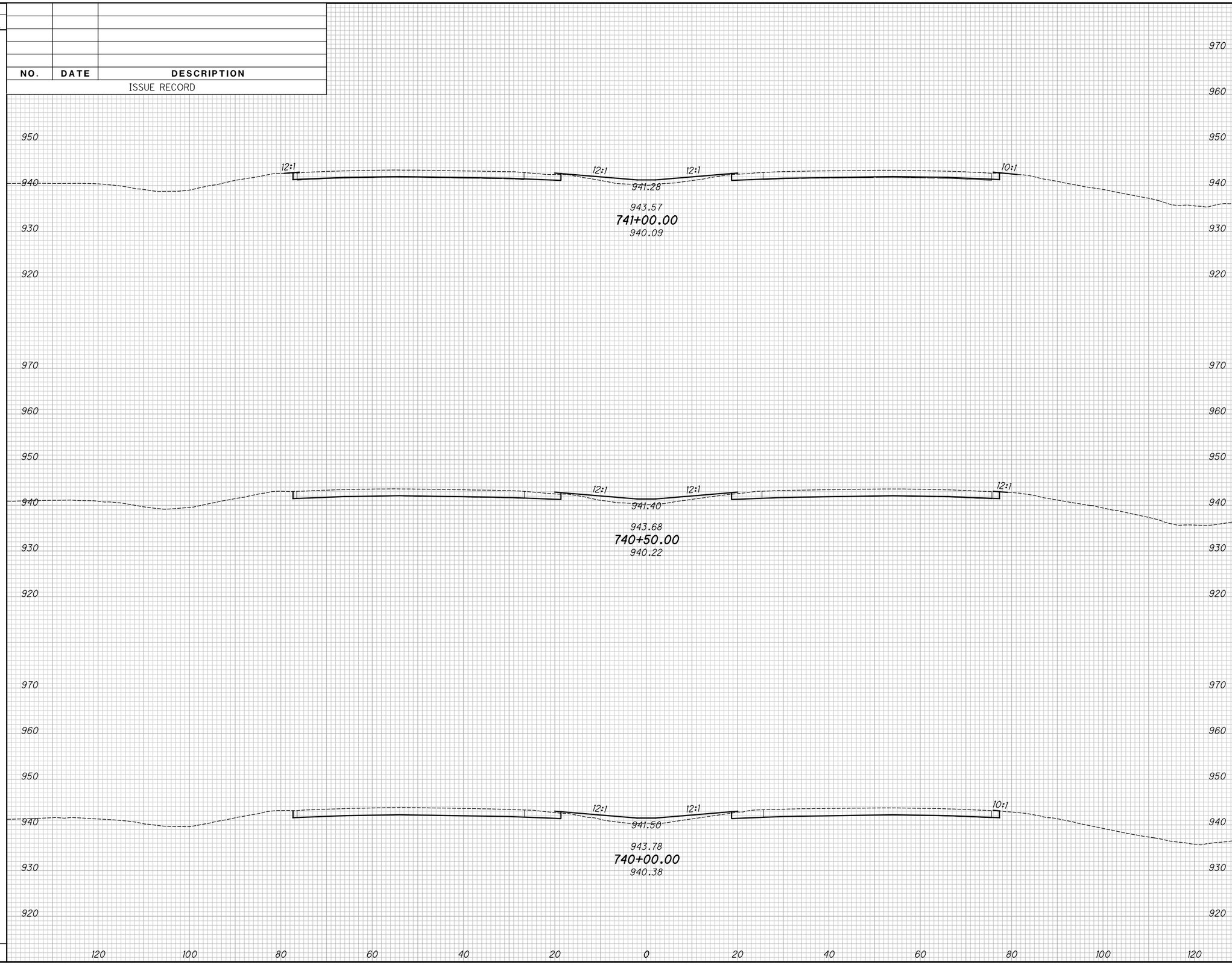
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_182 3/20/2019 9:48:48 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

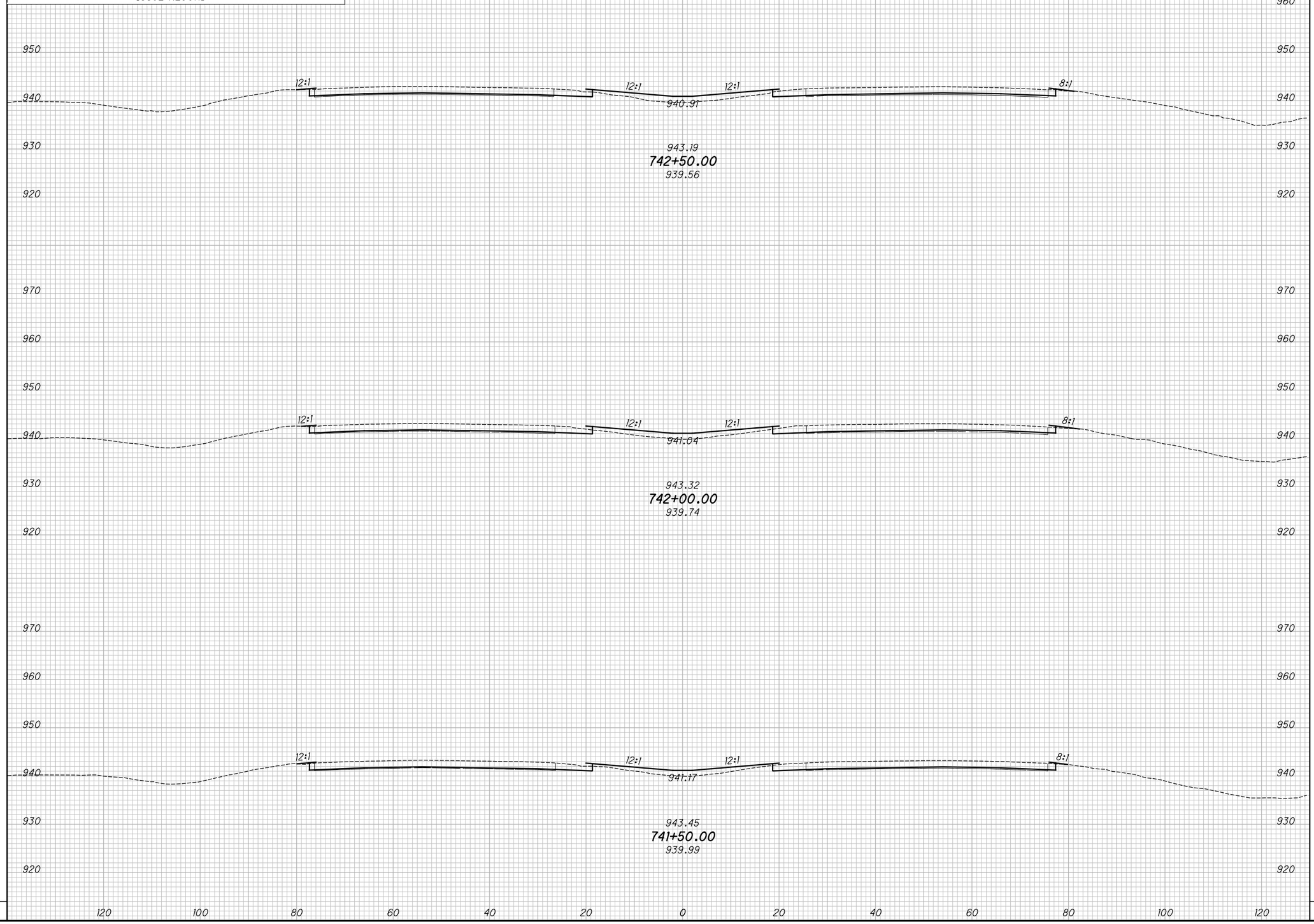
STA. 740+00.00 TO STA. 741+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_183 3/20/2019 9:48:50 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 741+50.00 TO STA. 742+50.00

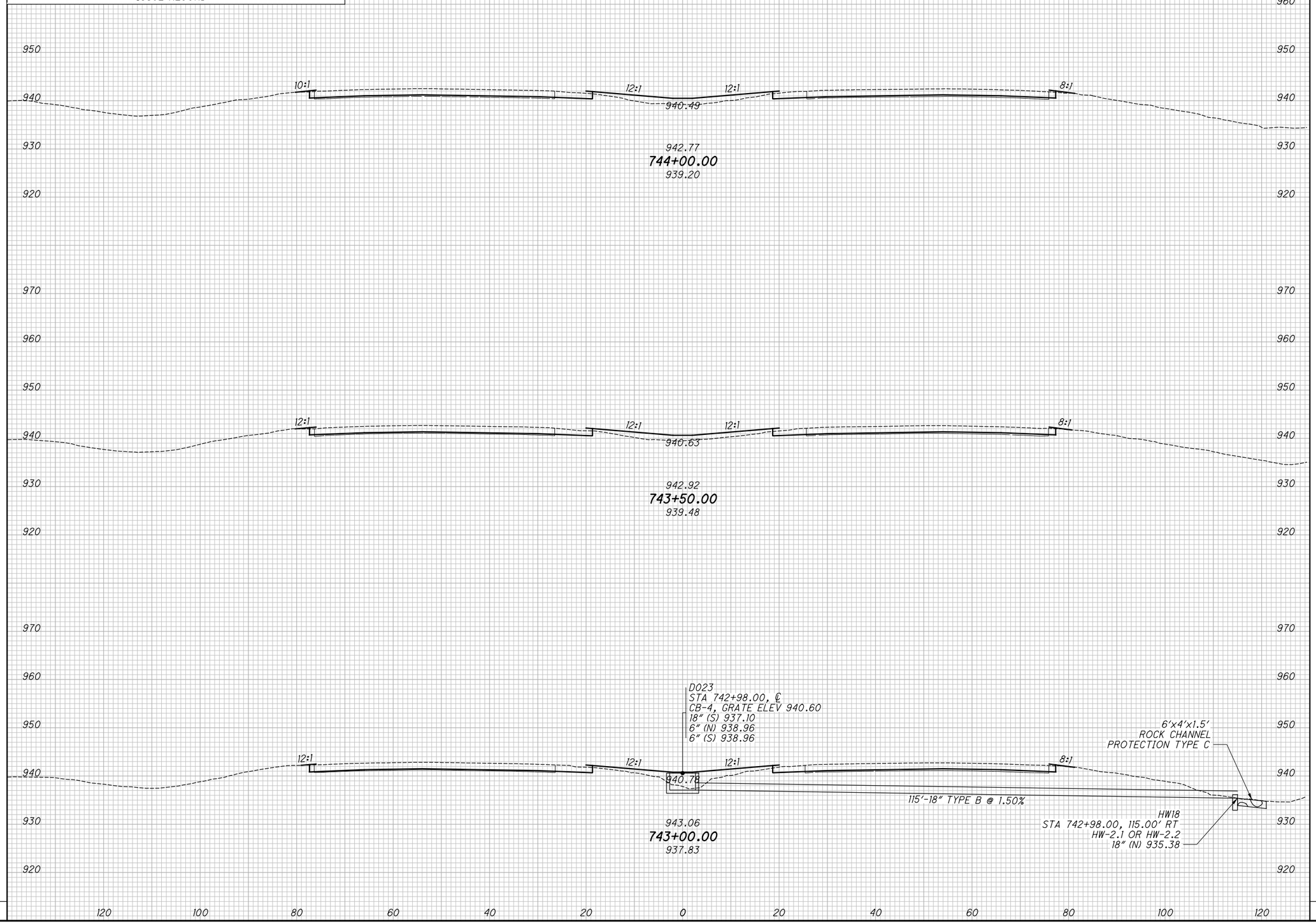
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_184 3/20/2019 9:48:52 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 743+00.00 TO STA. 744+00.00

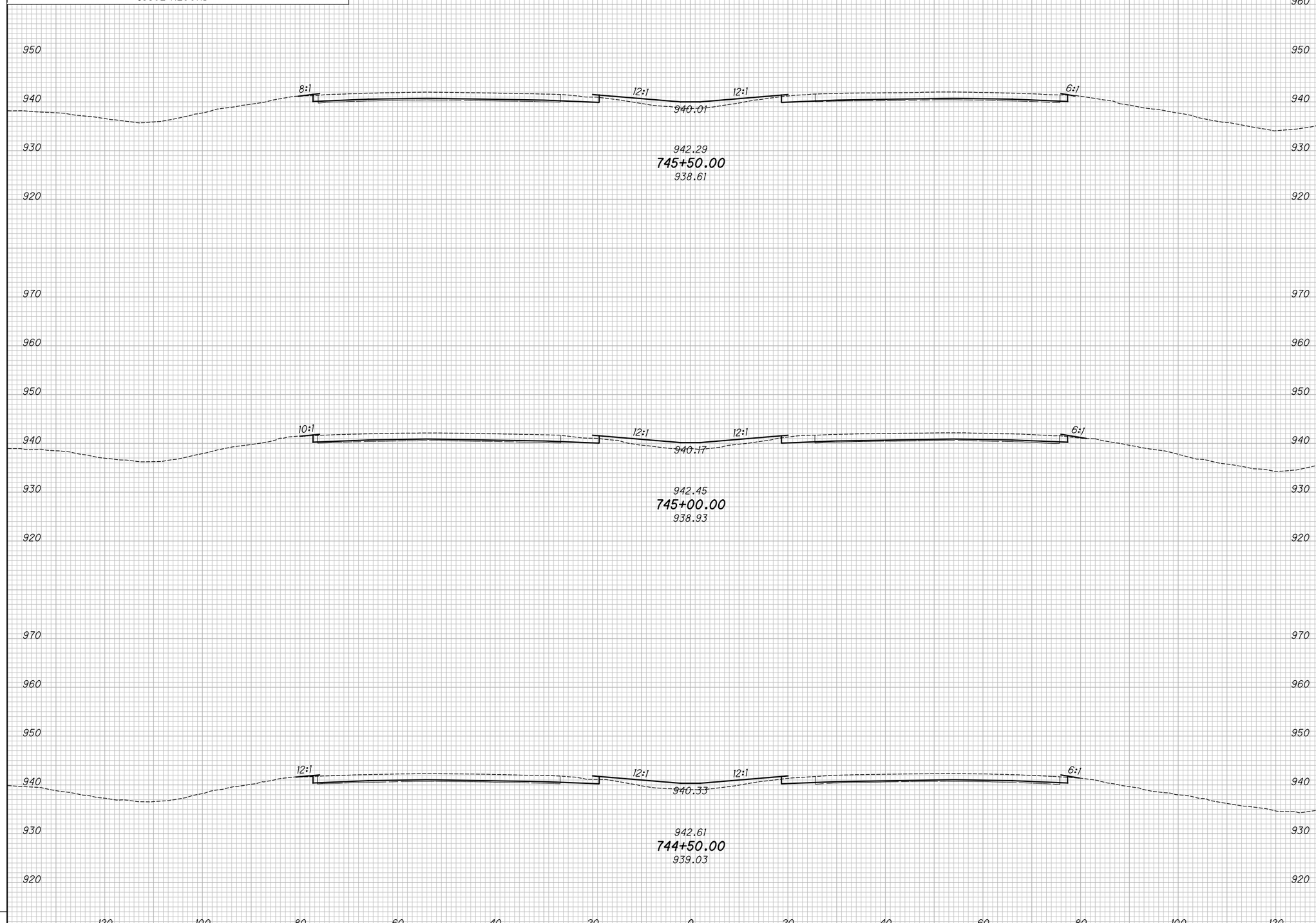
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_185 3/20/2019 9:48:54 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 744+50.00 TO STA. 745+50.00

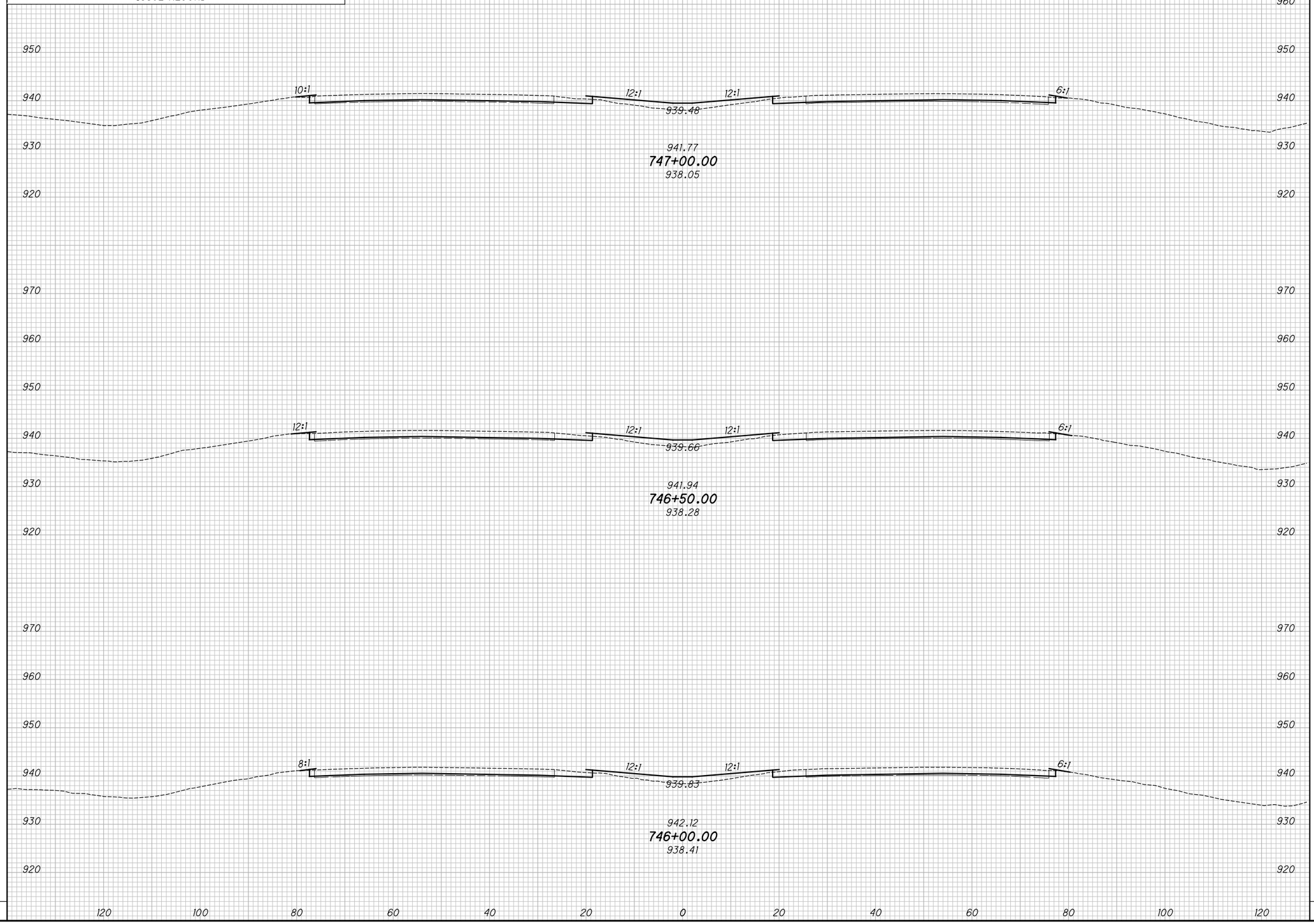
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_186 3/20/2019 9:48:56 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 746+00.00 TO STA. 747+00.00

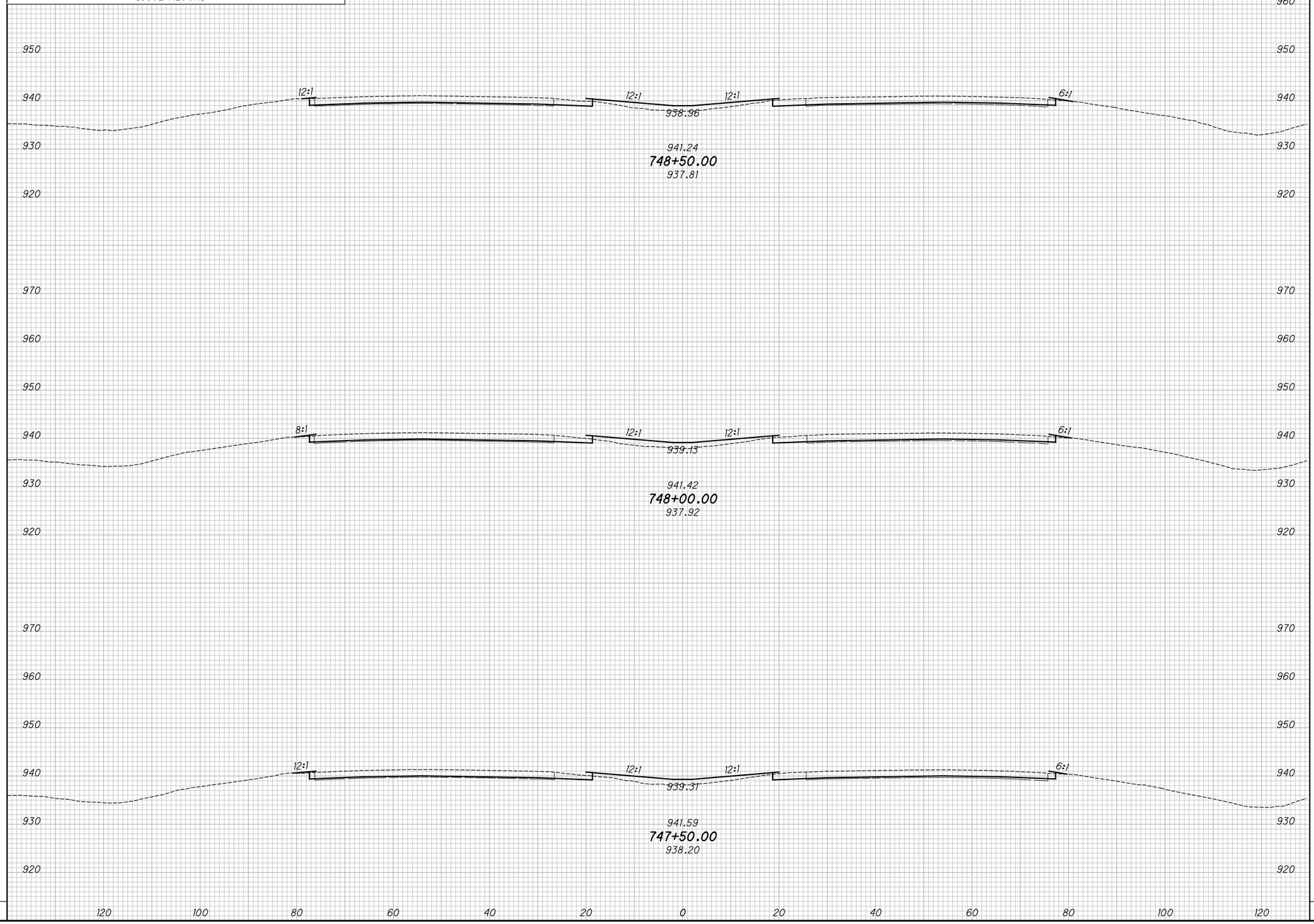
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_187 3/20/2019 9:48:58 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 747+50.00 TO STA. 748+50.00

MAD-70-8.62

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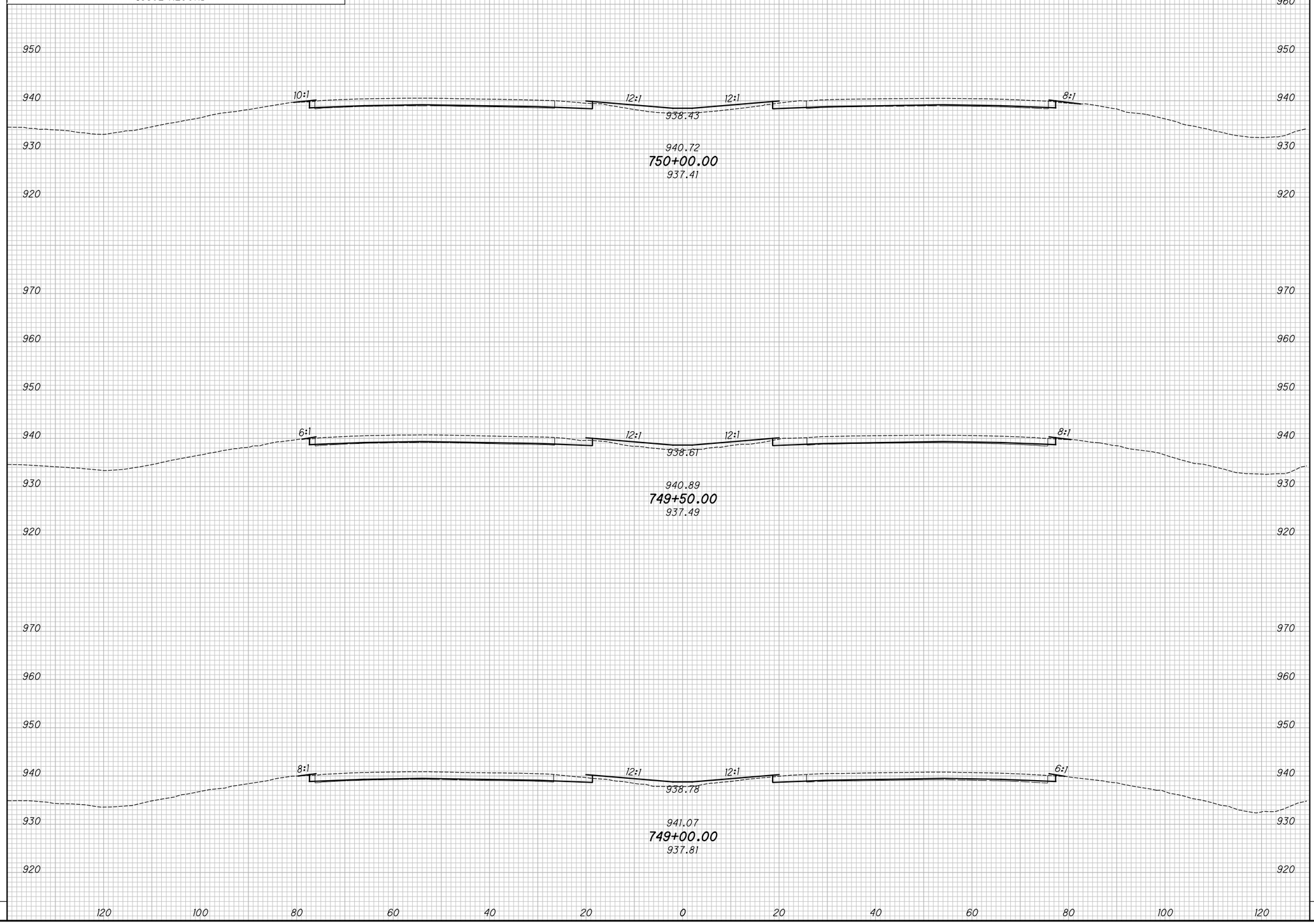
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 749+00.00 TO STA. 750+00.00

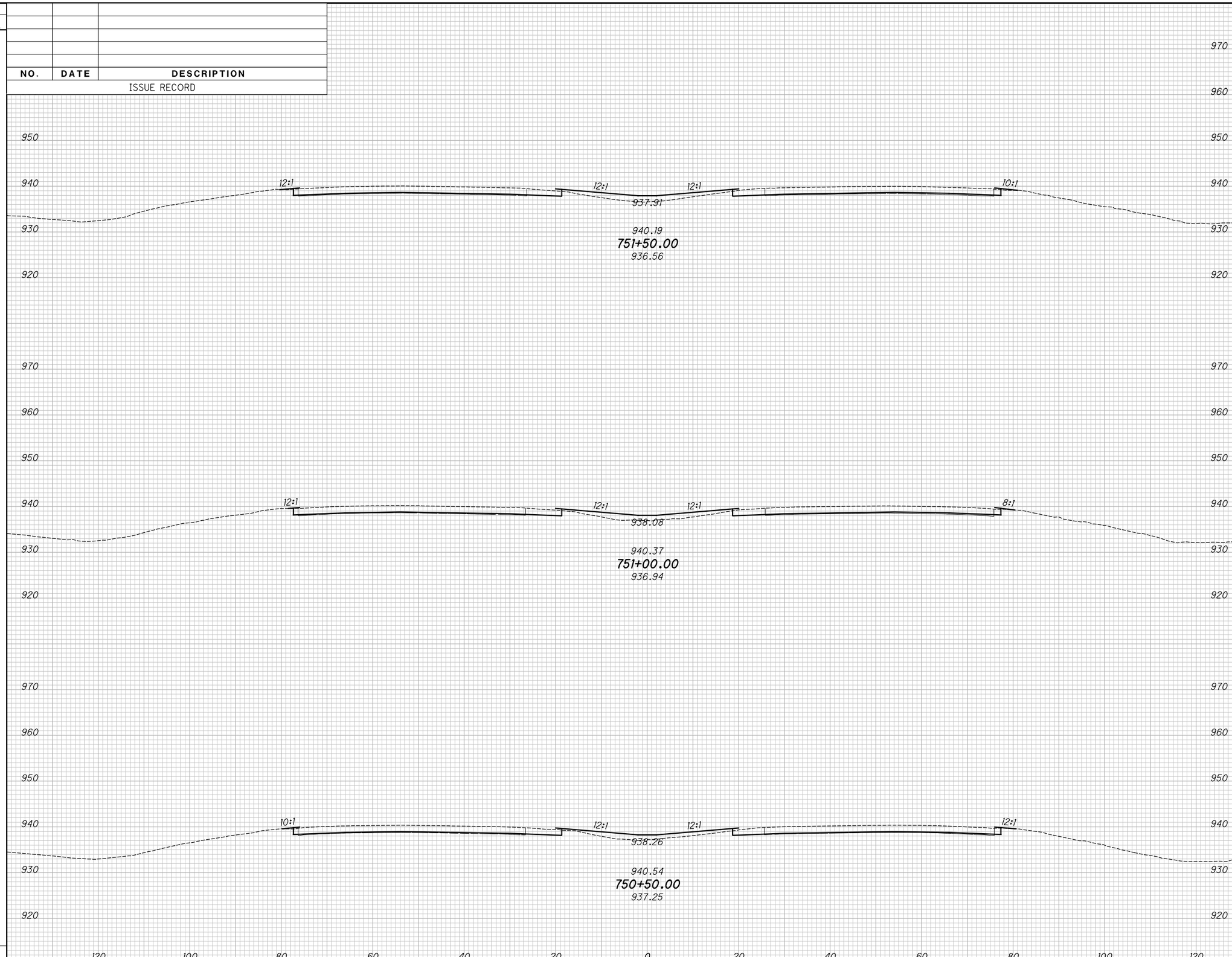
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_189 3/20/2019 9:49:02 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 750+50.00 TO STA. 751+50.00

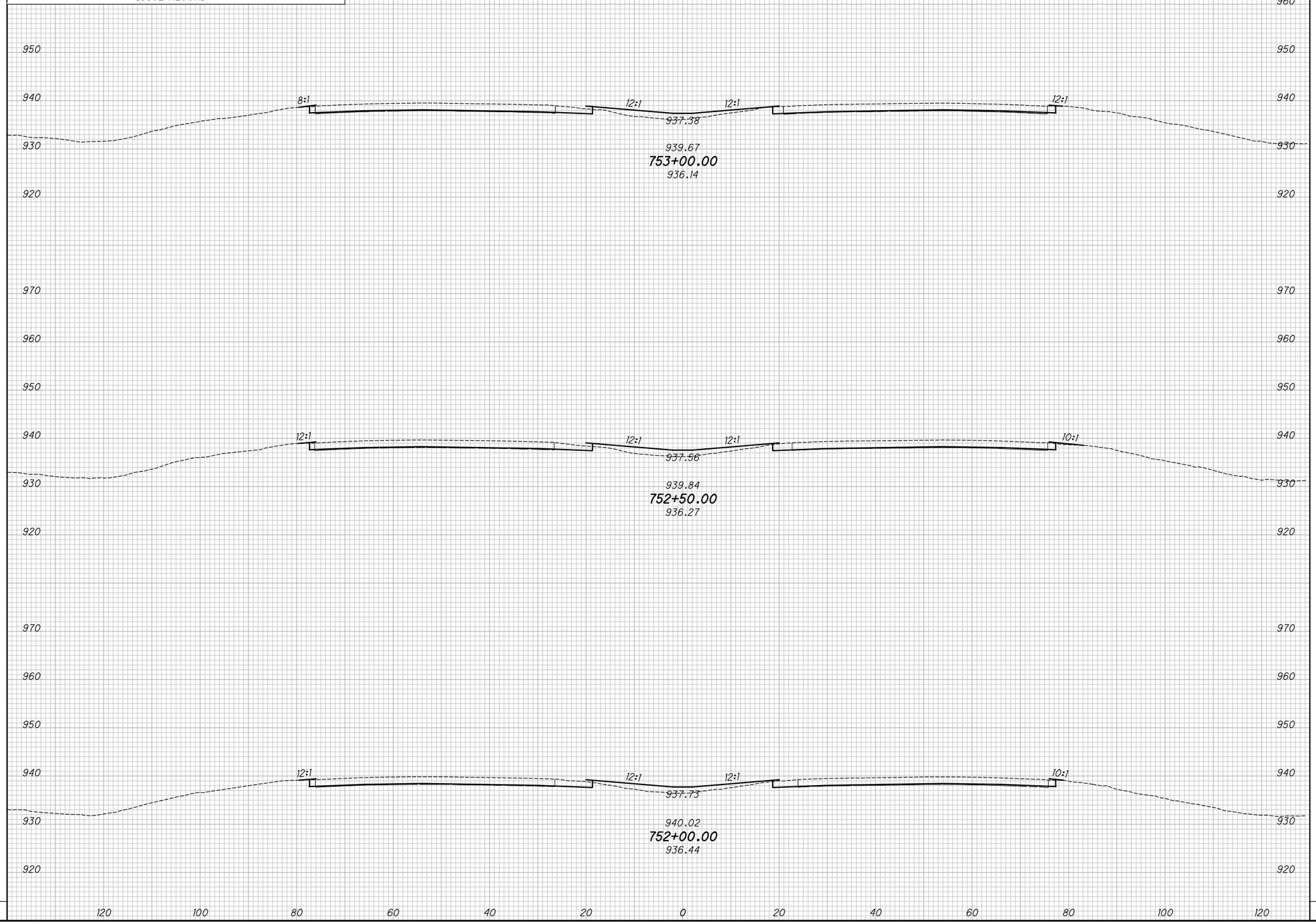
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name.190 3/20/2019 9:49:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 752+00.00 TO STA. 753+00.00

MAD-70-8.62

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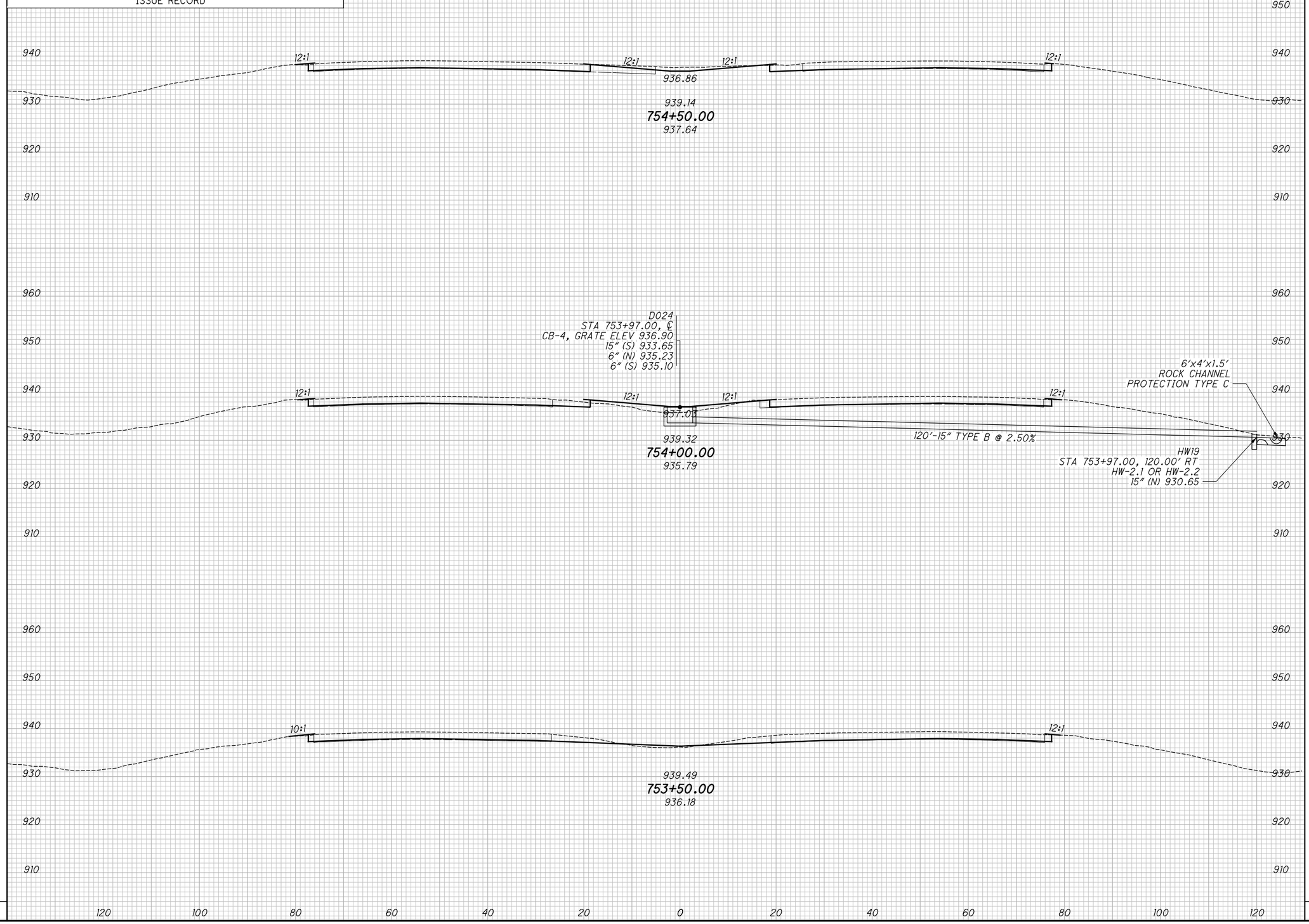
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 753+50.00 TO STA. 754+50.00

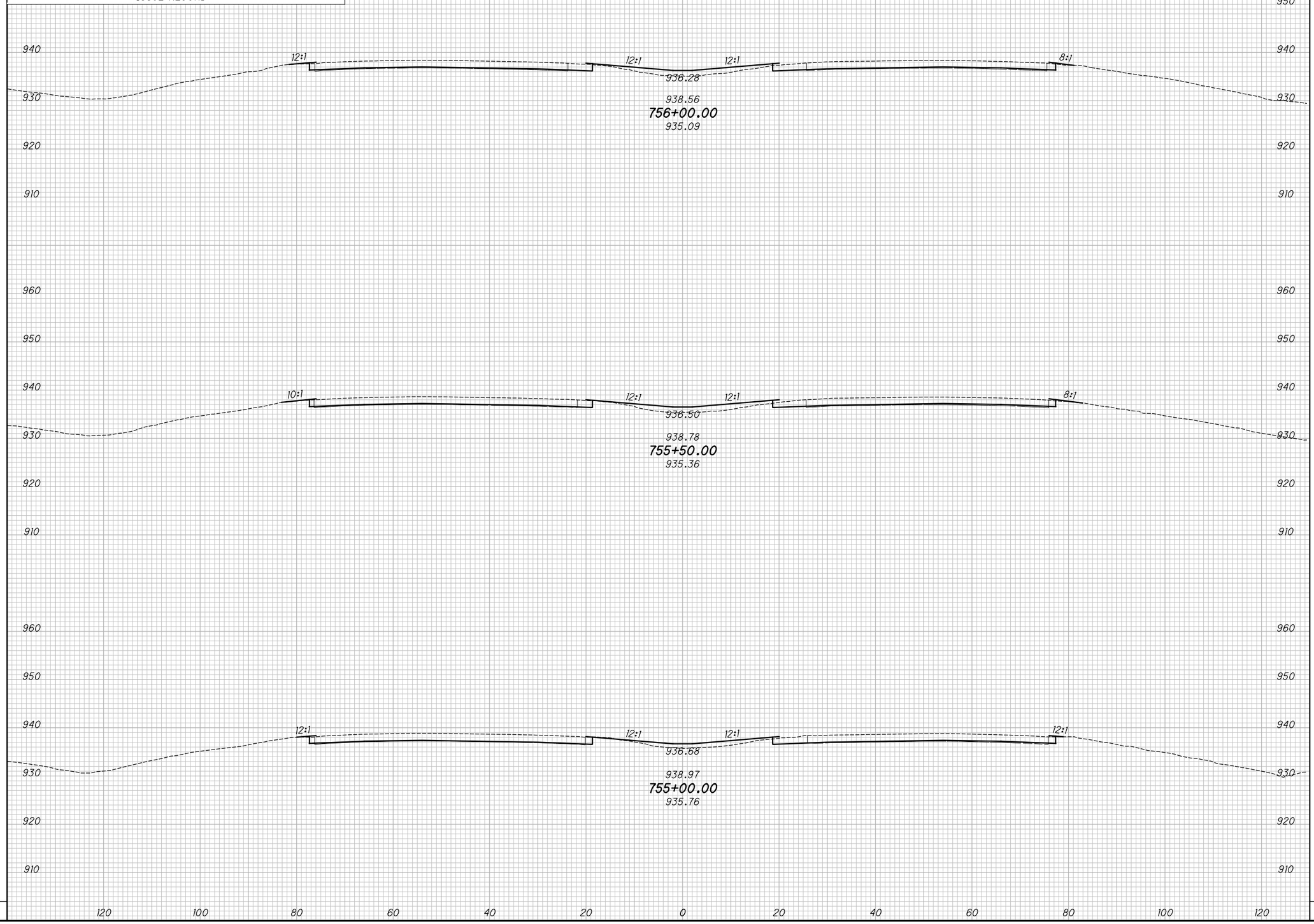
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_192 3/20/2019 9:49:08 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 755+00.00 TO STA. 756+00.00

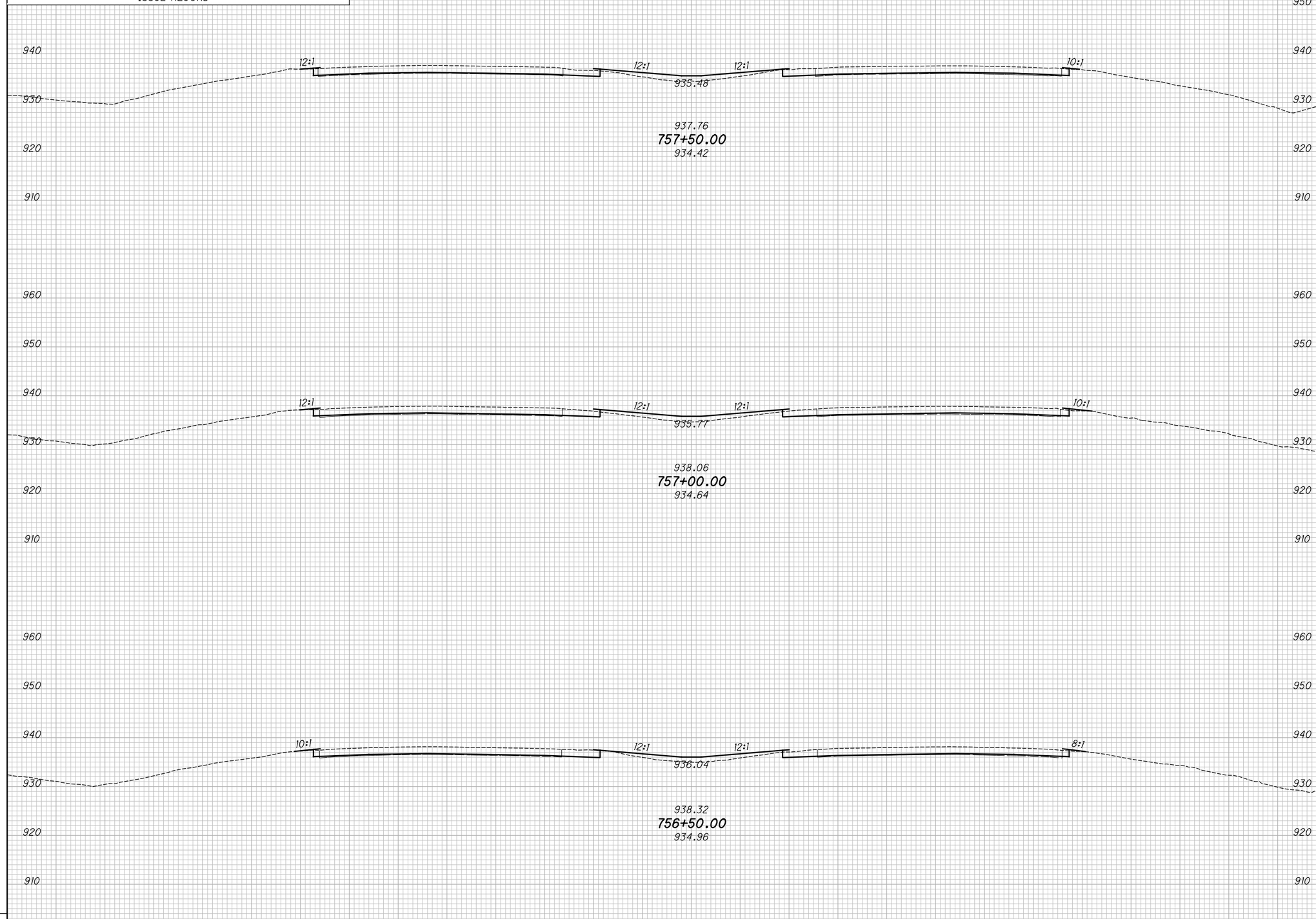
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_193 3/20/2019 9:49:10 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

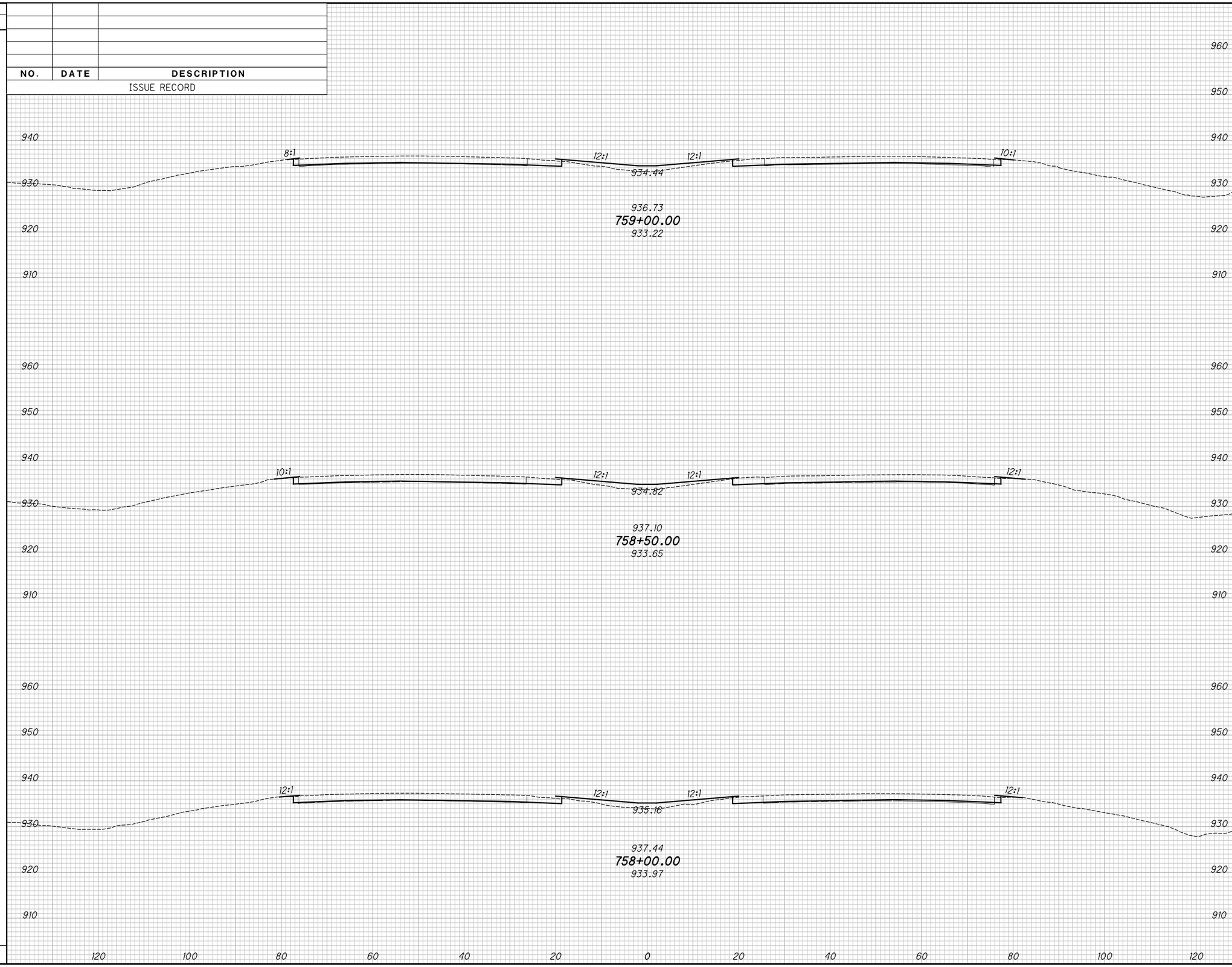
CROSS SECTIONS - IR 70
STA. 756+50.00 TO STA. 757+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_194 3/20/2019 9:49:12 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 758+00.00 TO STA. 759+00.00

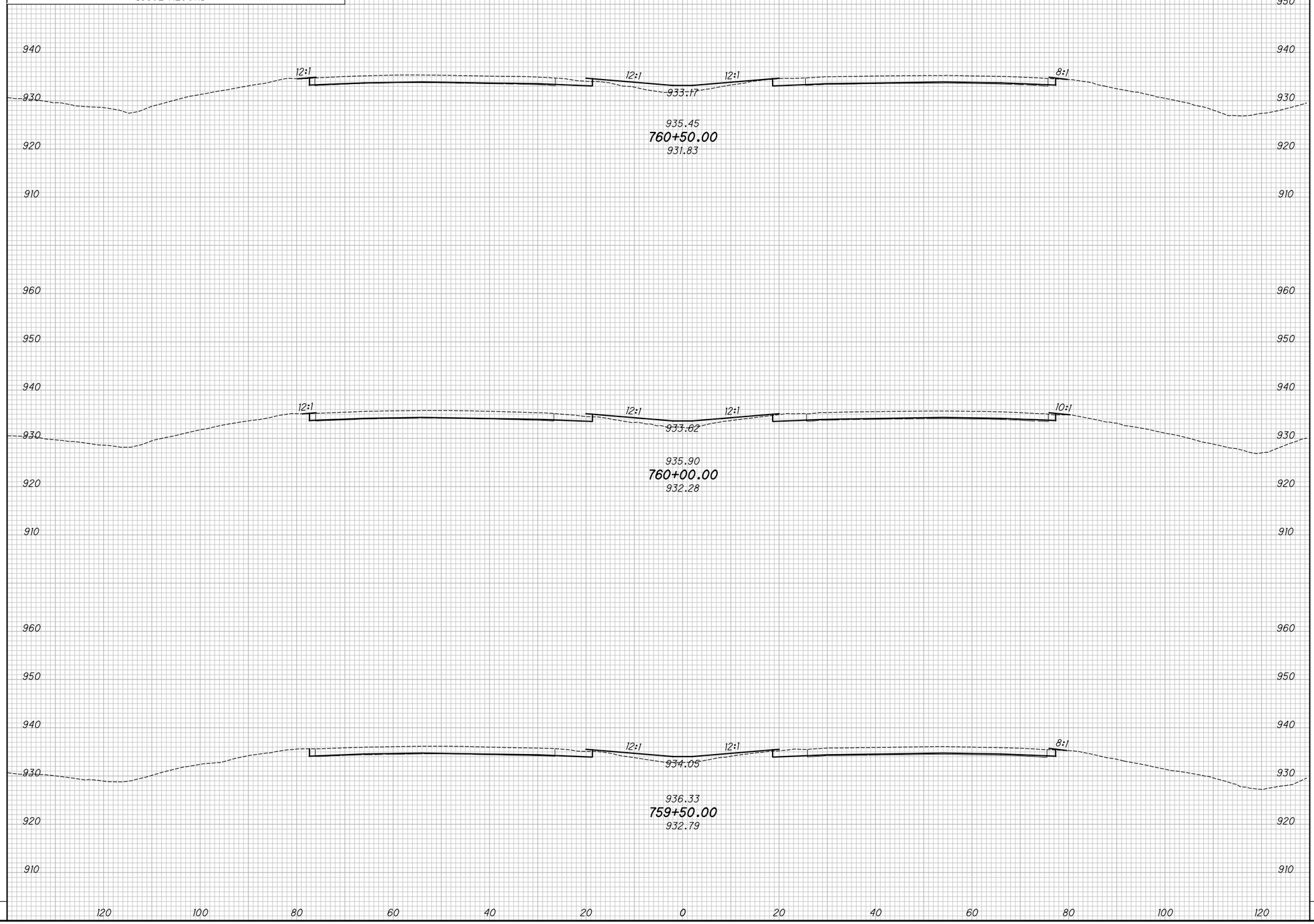
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_I95 3/20/2019 9:49:14 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 759+50.00 TO STA. 760+50.00

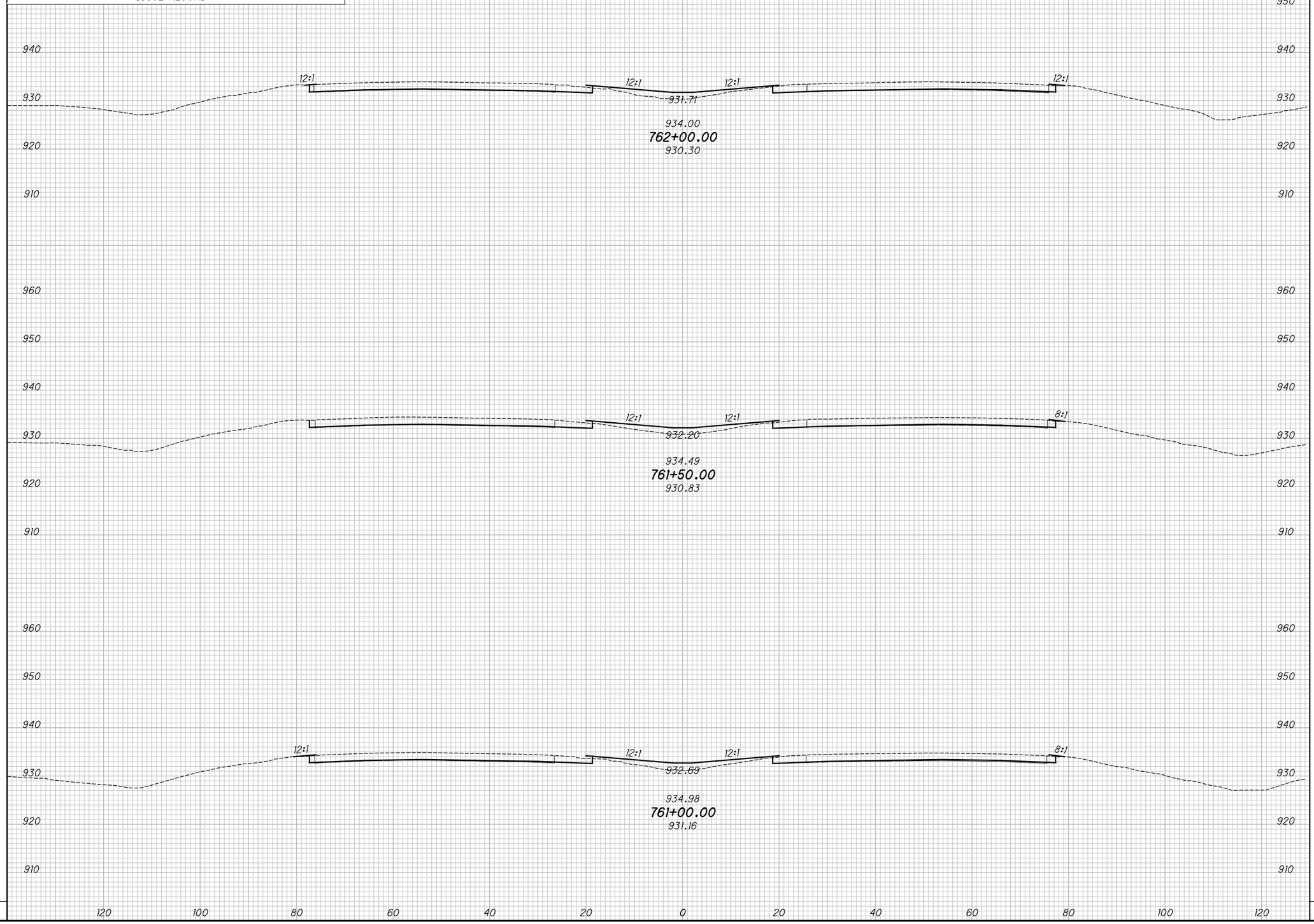
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_196 3/20/2019 9:49:15 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 761+00.00 TO STA. 762+00.00

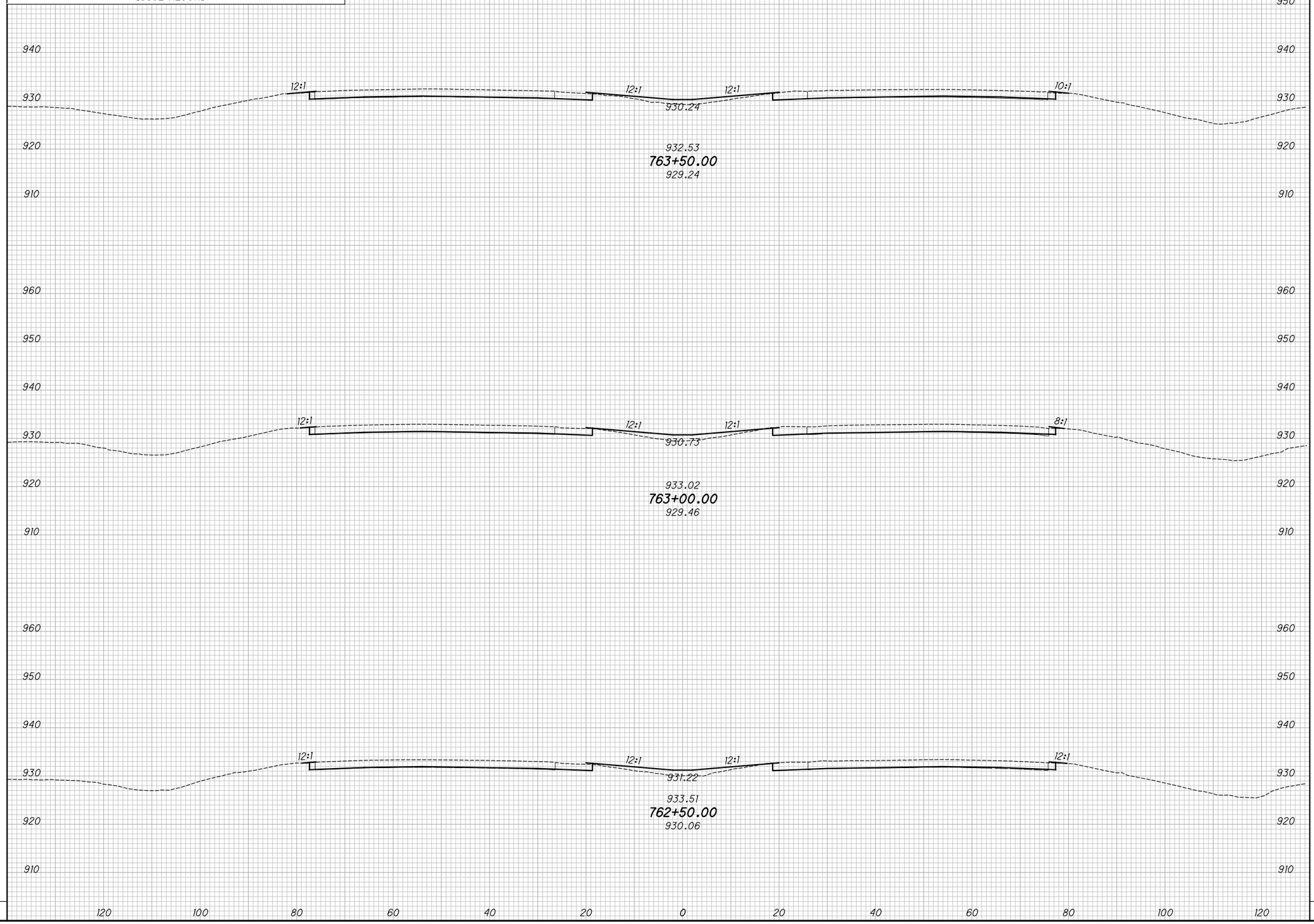
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_197 3/20/2019 9:49:17 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 762+50.00 TO STA. 763+50.00

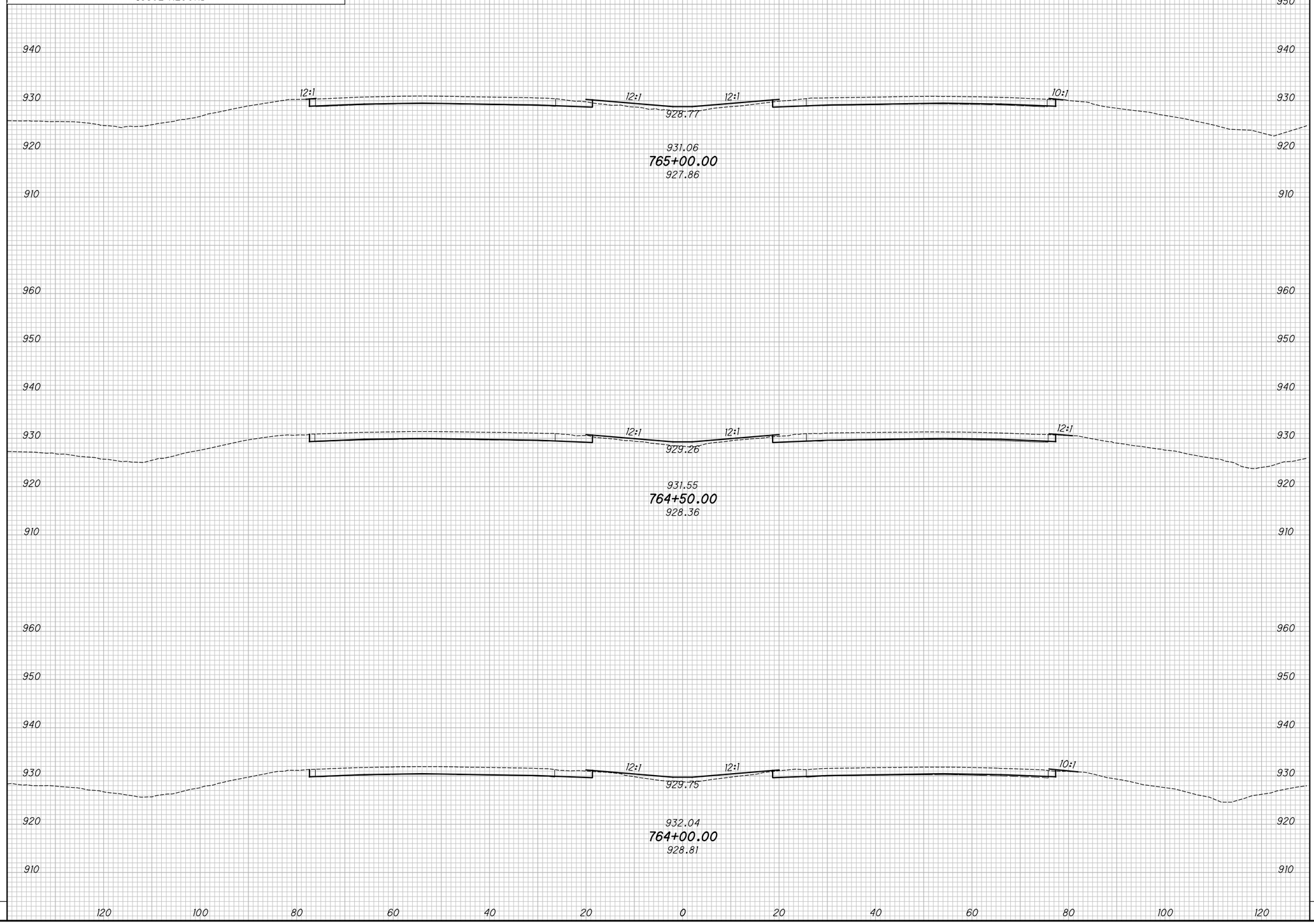
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_198 3/20/2019 9:49:19 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 764+00.00 TO STA. 765+00.00

MAD-70-8.62

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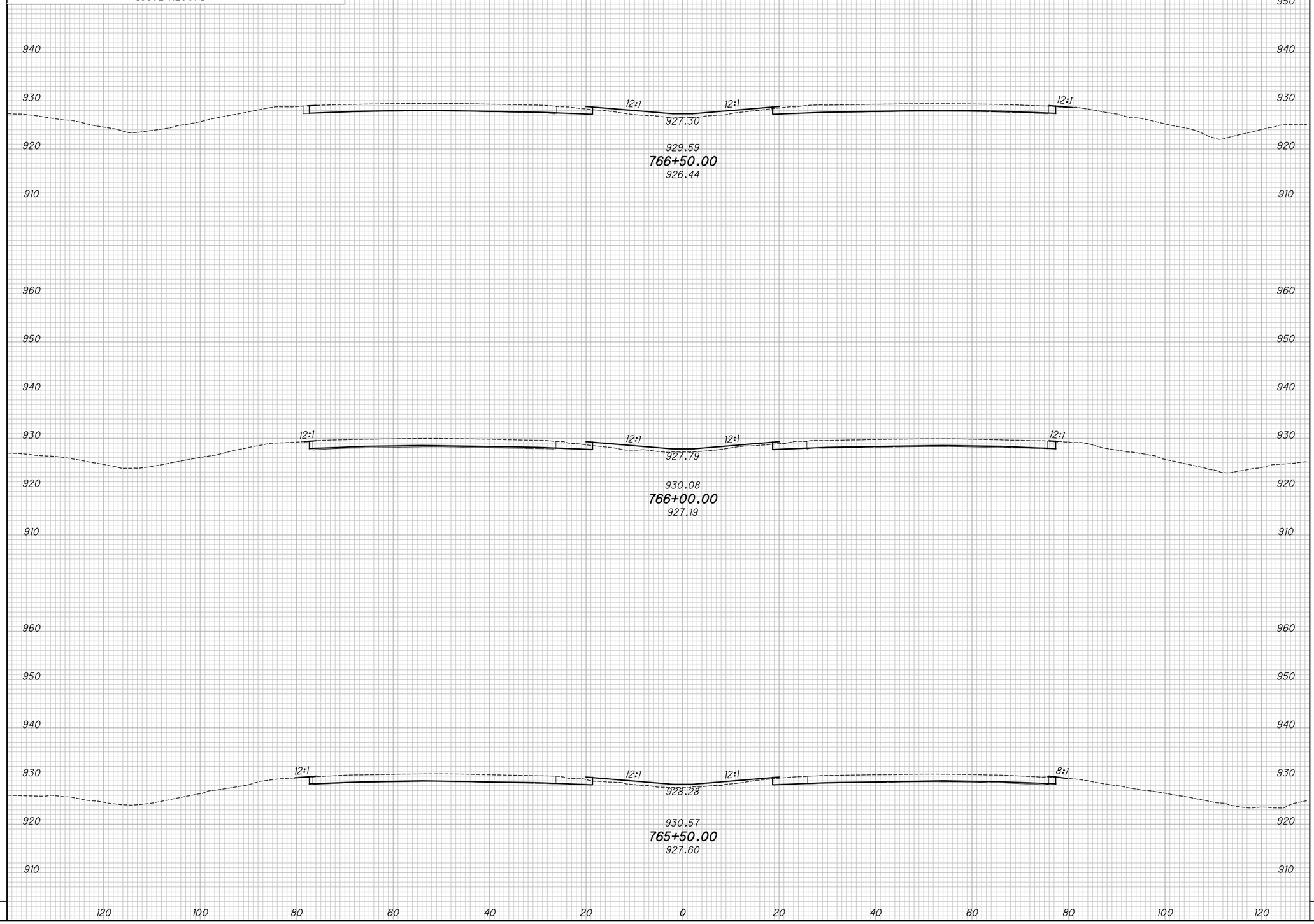
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

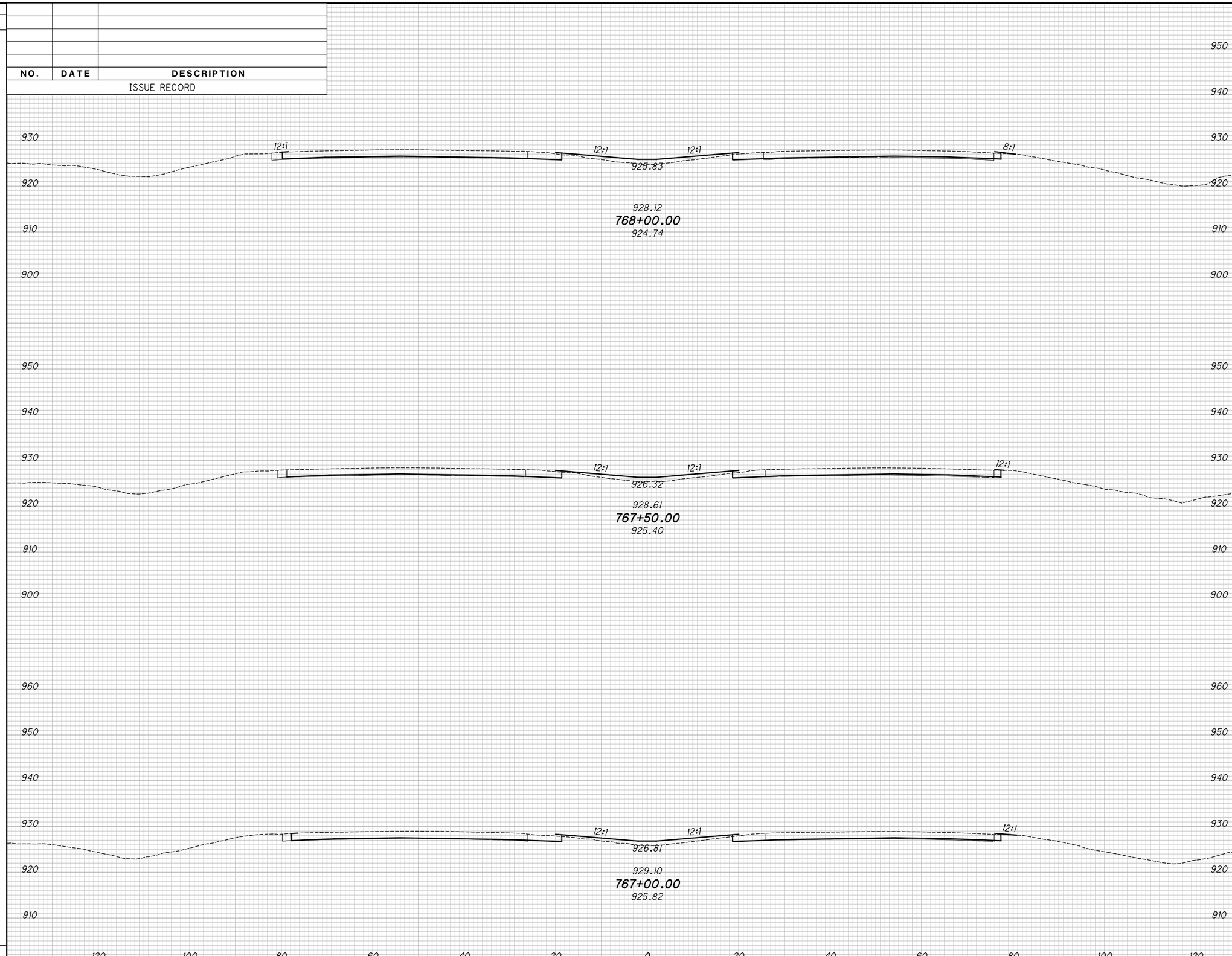
CROSS SECTIONS - IR 70
STA. 765+50.00 TO STA. 766+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_200 3/20/2019 9:49:23 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 767+00.00 TO STA. 768+00.00

MAD-70-8.62

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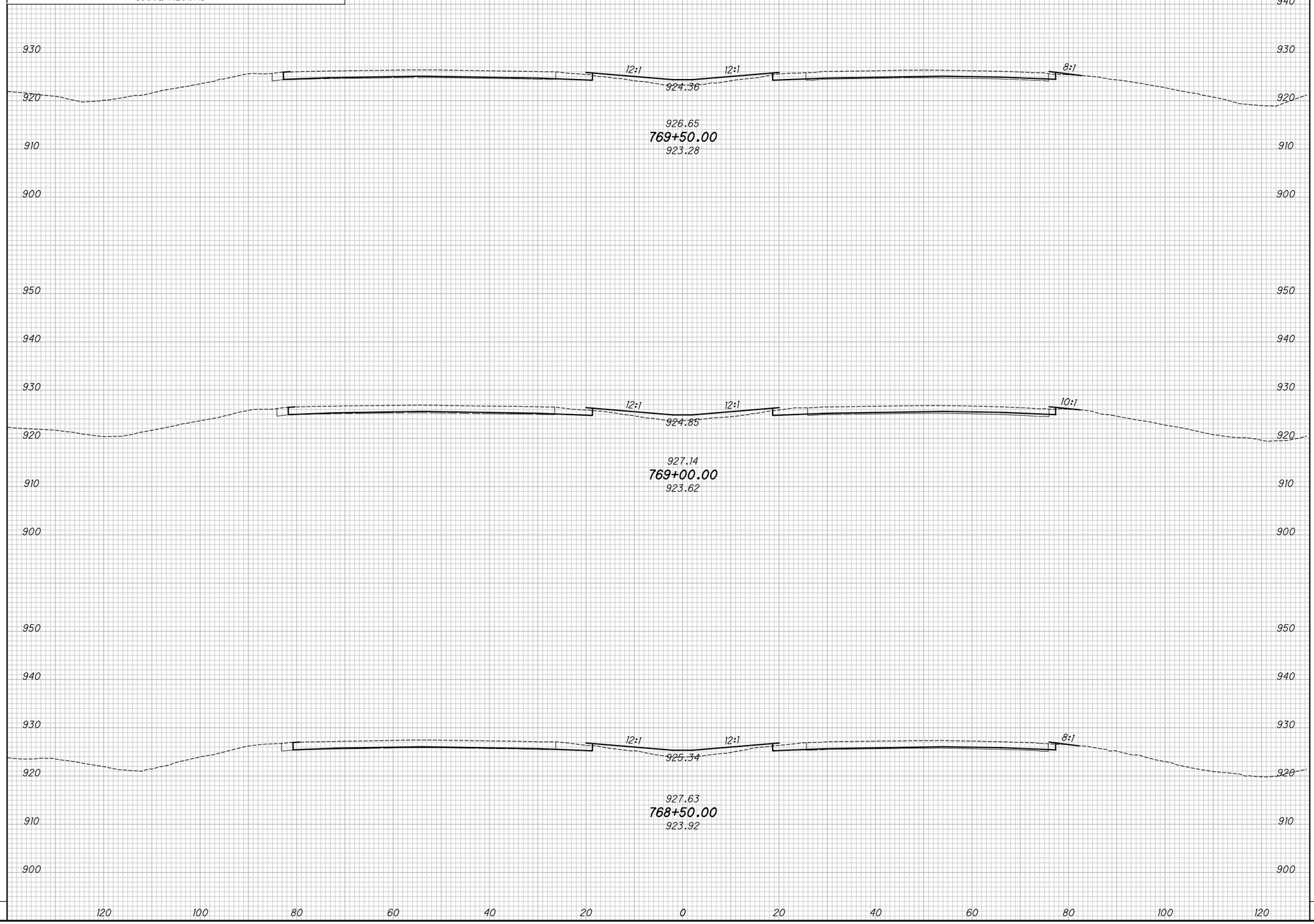
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 768+50.00 TO STA. 769+50.00

MAD-70-8.62

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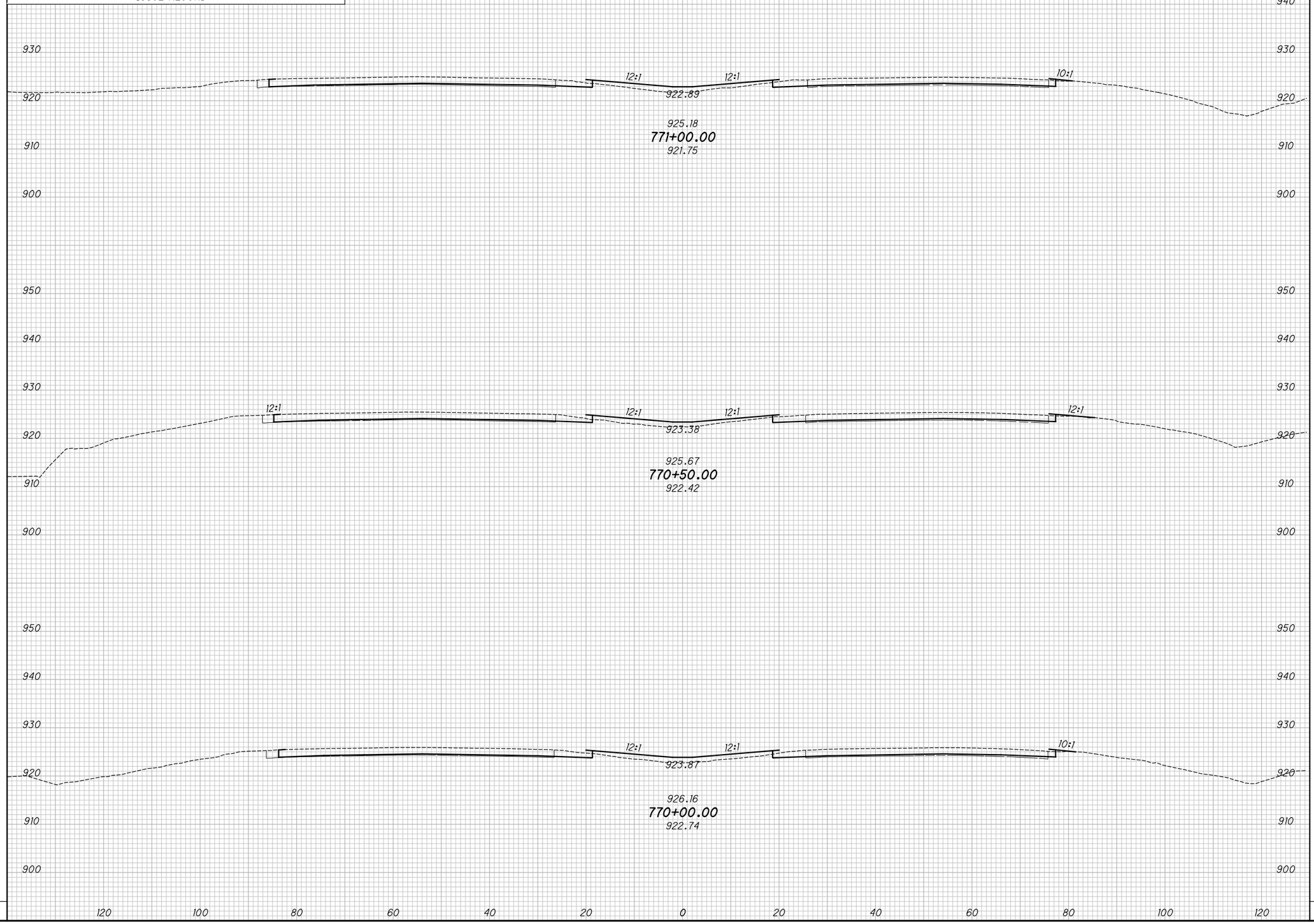
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 770+00.00 TO STA. 771+00.00

MAD-70-8.62

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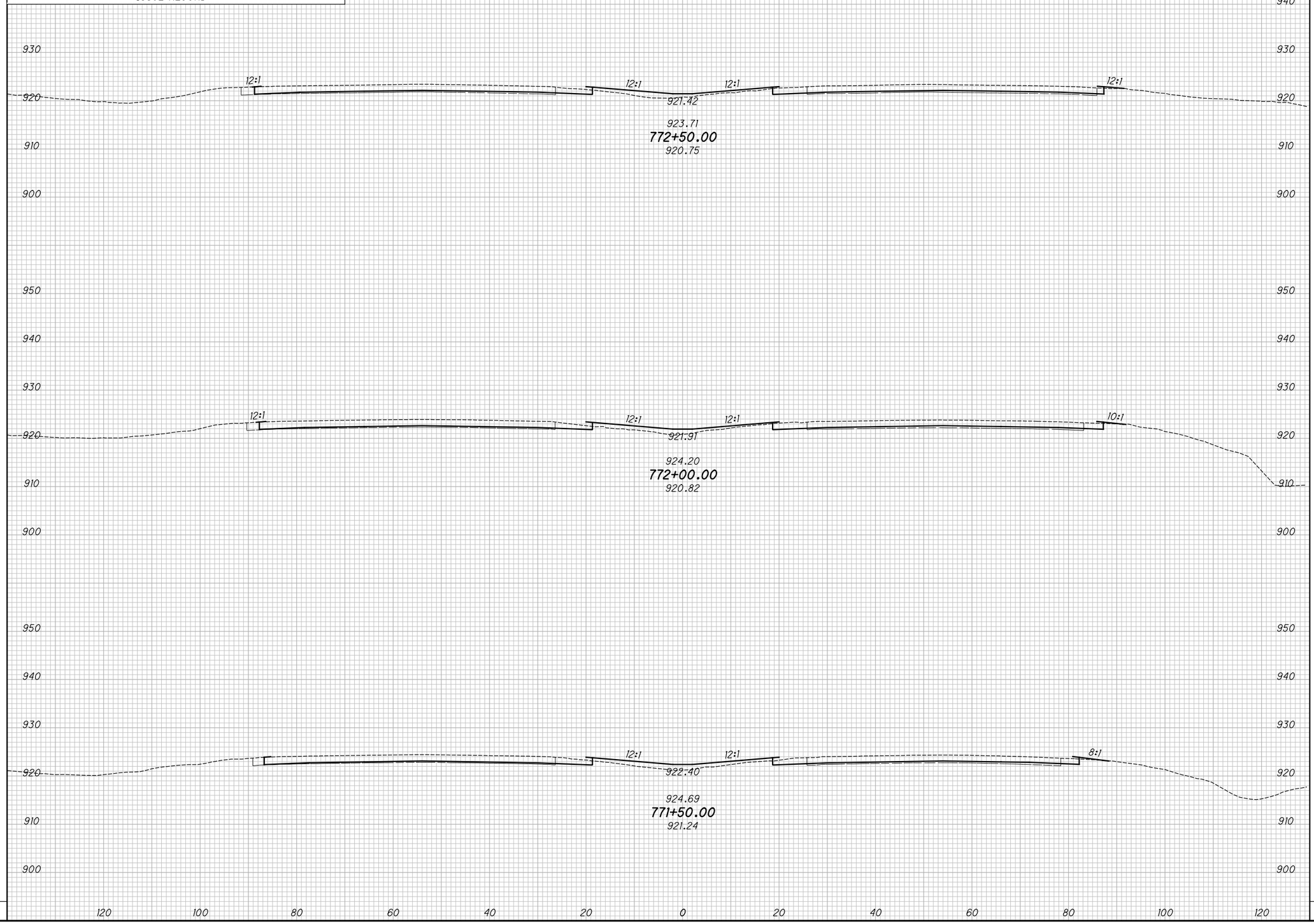
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 771+50.00 TO STA. 772+50.00

MAD-70-8.62

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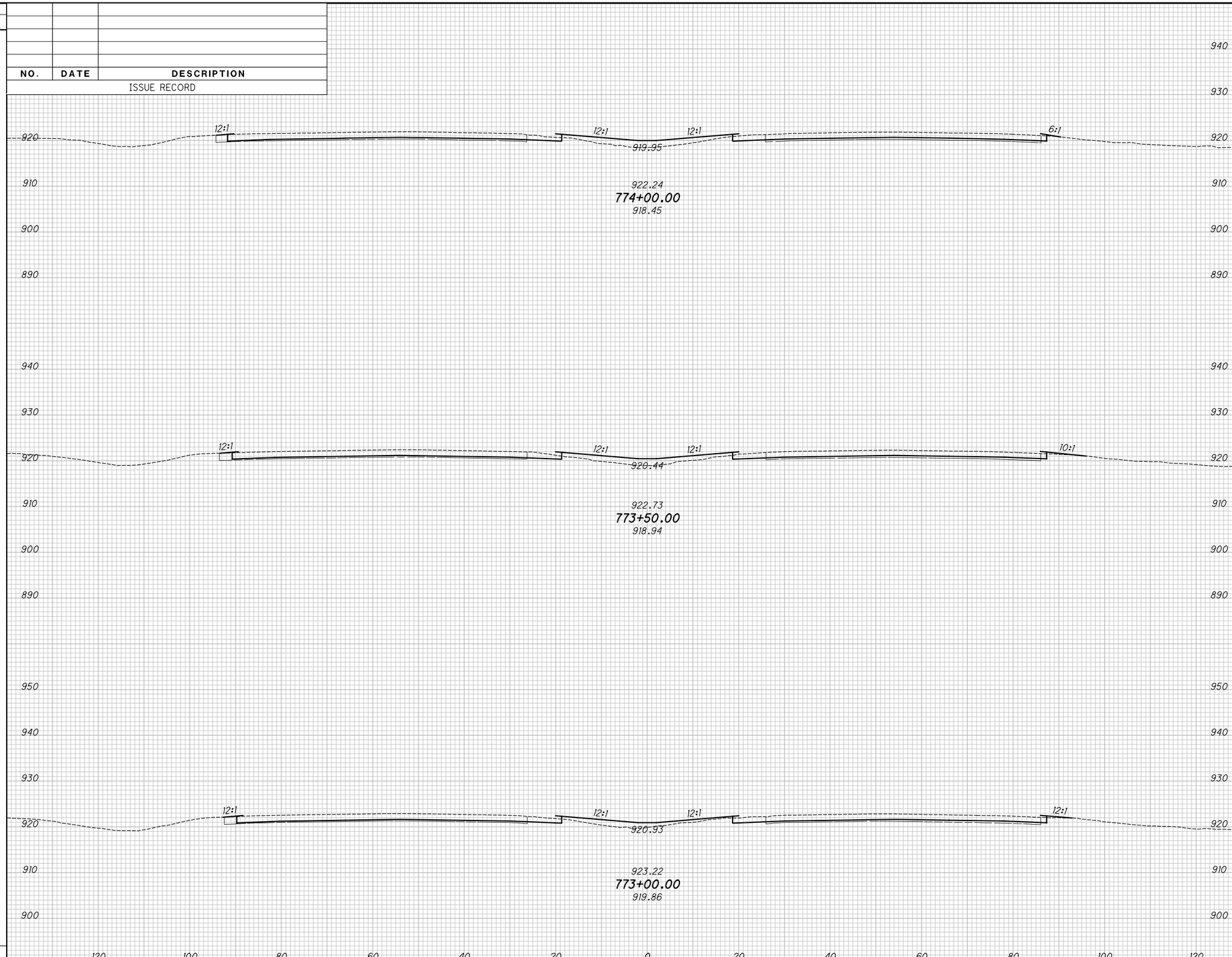
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 773+00.00 TO STA. 774+00.00

MAD-70-8.62

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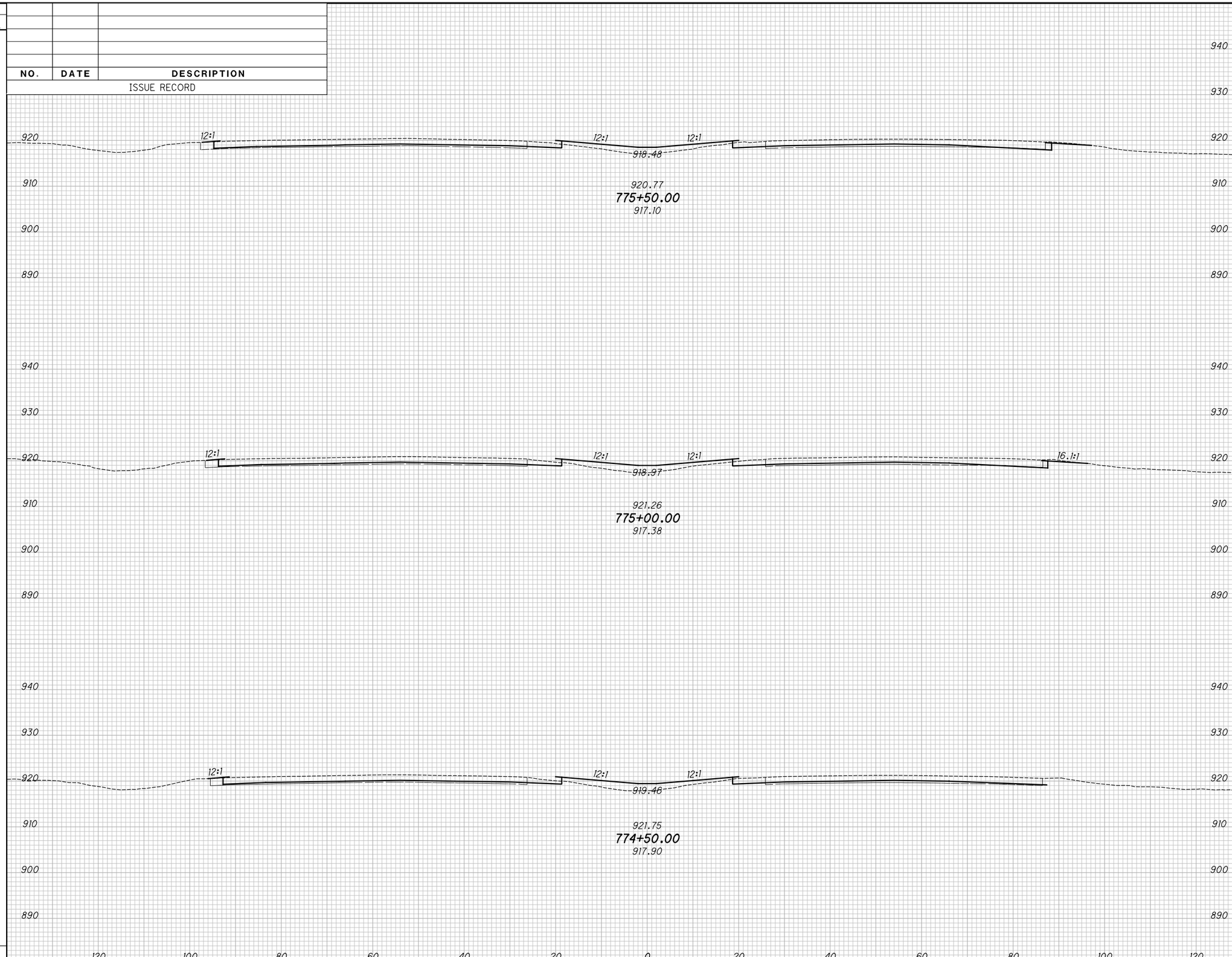
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 774+50.00 TO STA. 775+50.00

MAD-70-8.62

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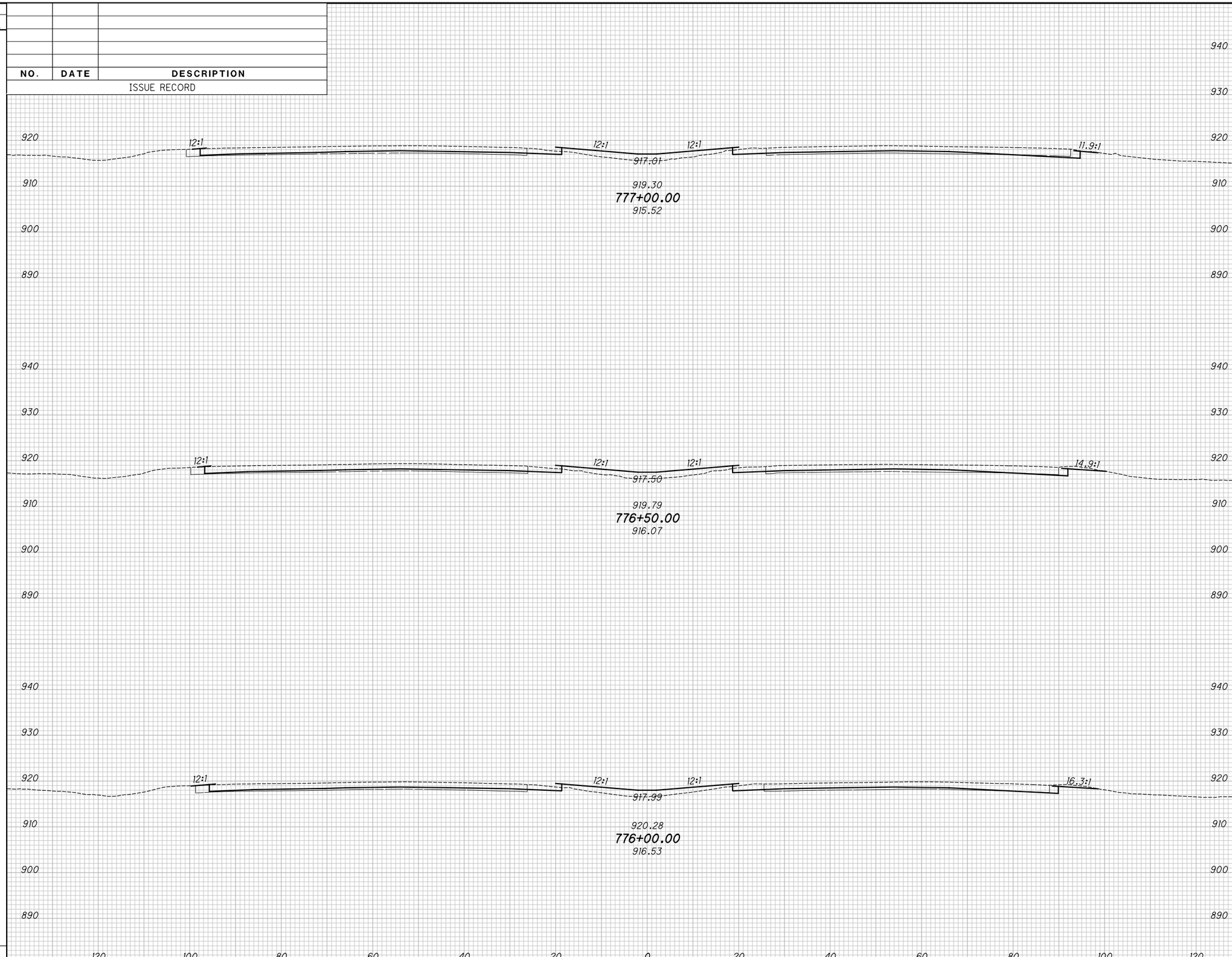
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

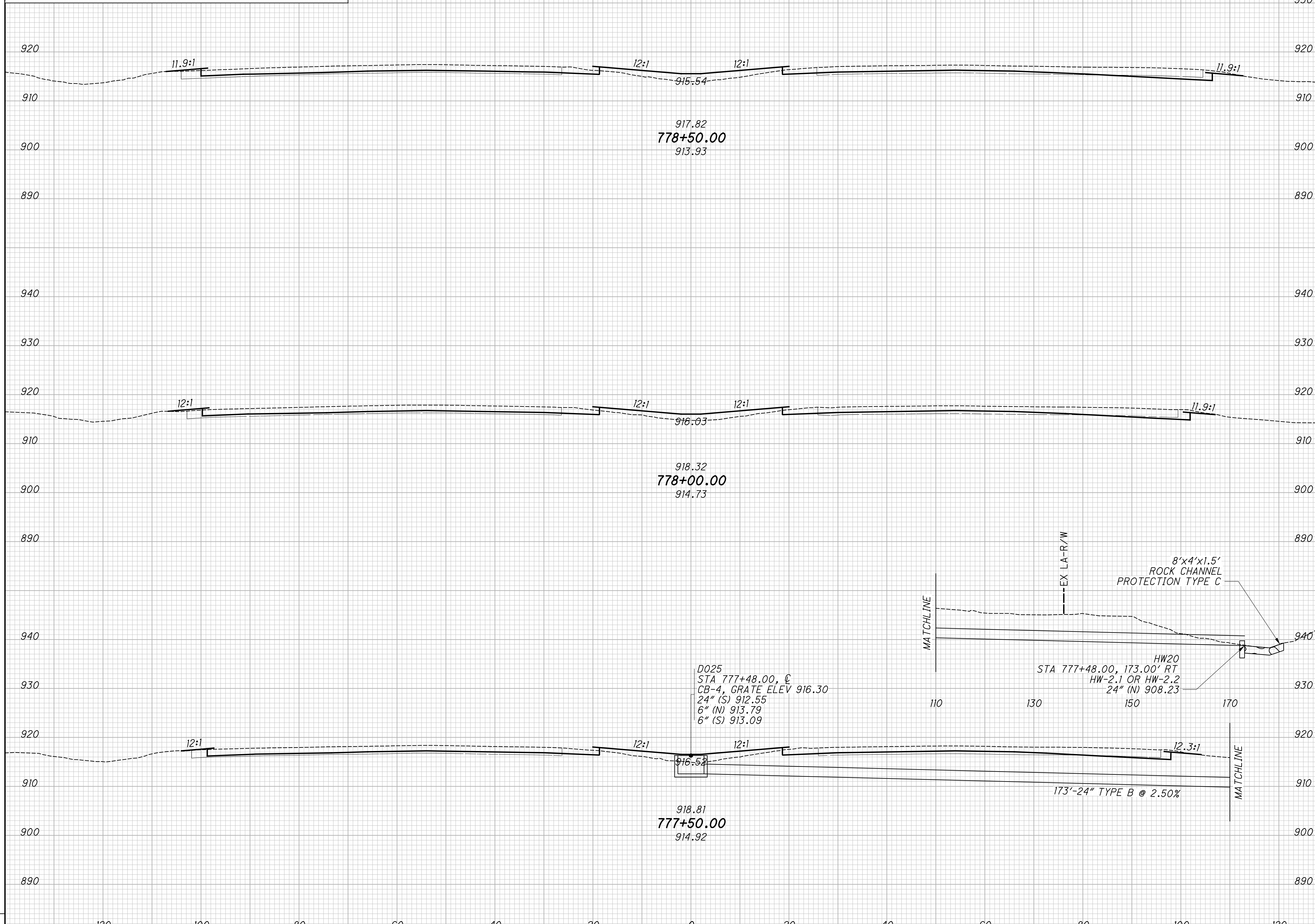
STA. 776+00.00 TO STA. 777+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_207 3/20/2019 9:49:38 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF

CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 777+50.00 TO STA. 778+50.00

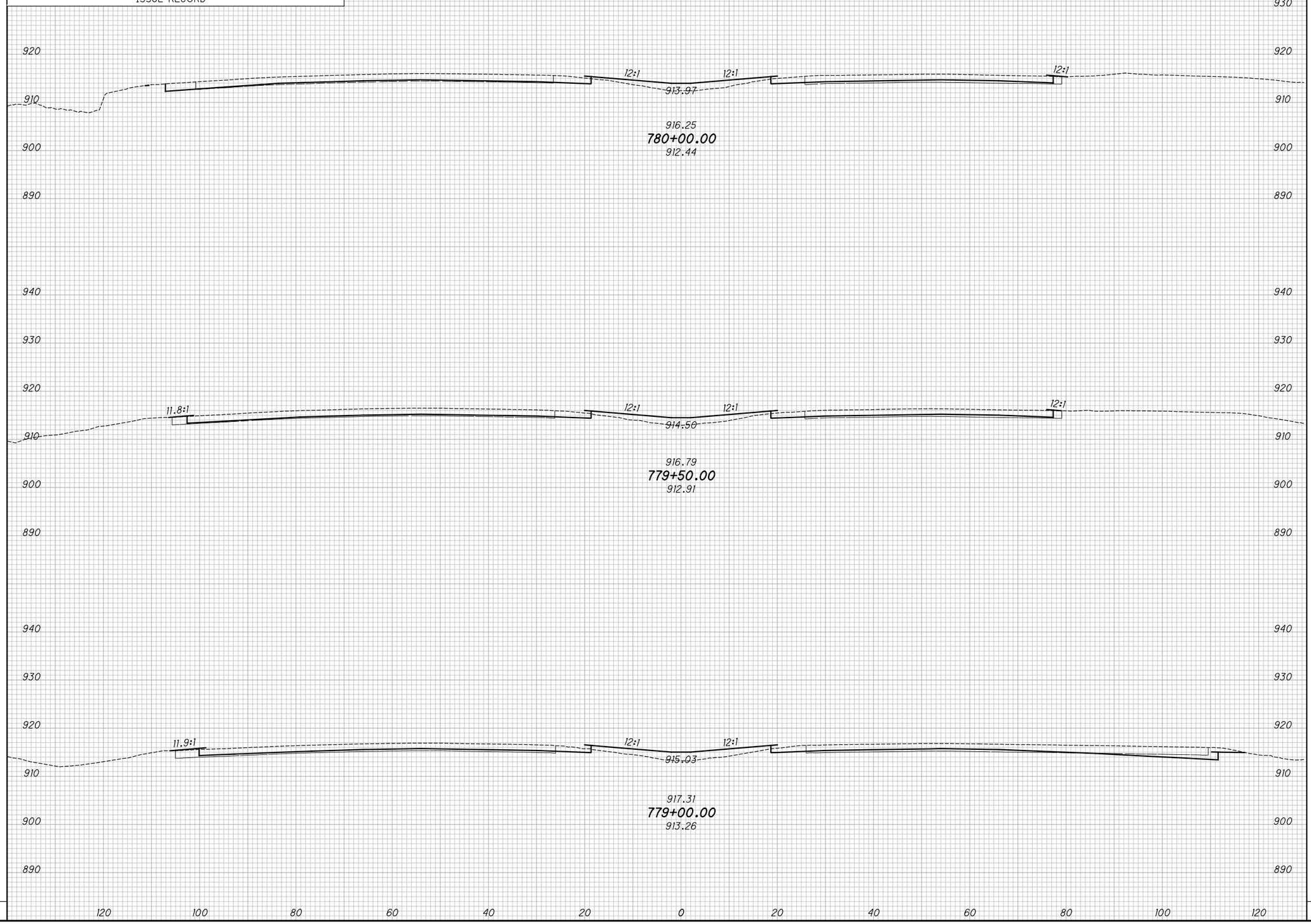
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_208 3/20/2019 9:49:40 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 779+00.00 TO STA. 780+00.00

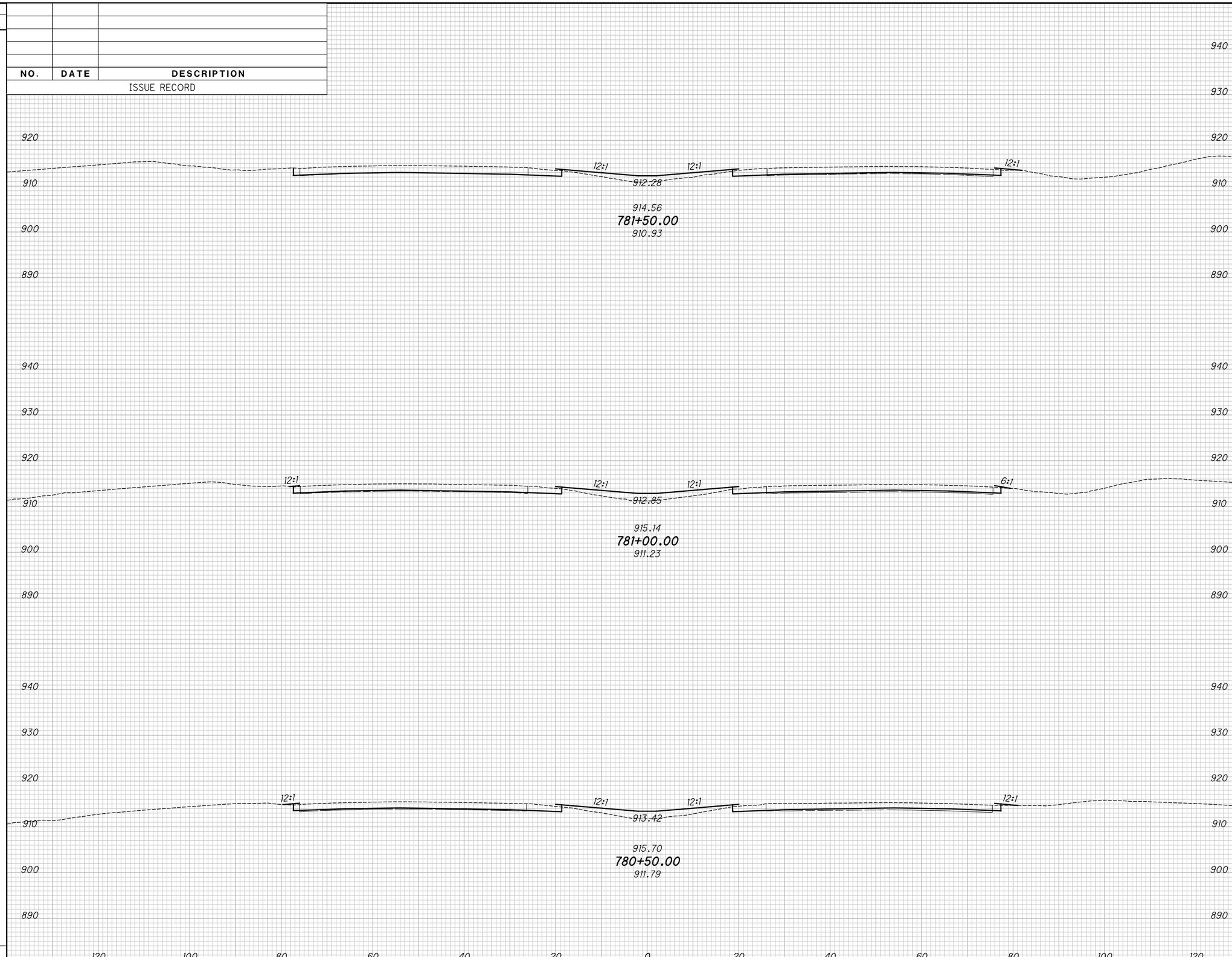
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_209 3/20/2019 9:49:41 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 780+50.00 TO STA. 781+50.00

MAD-70-8.62

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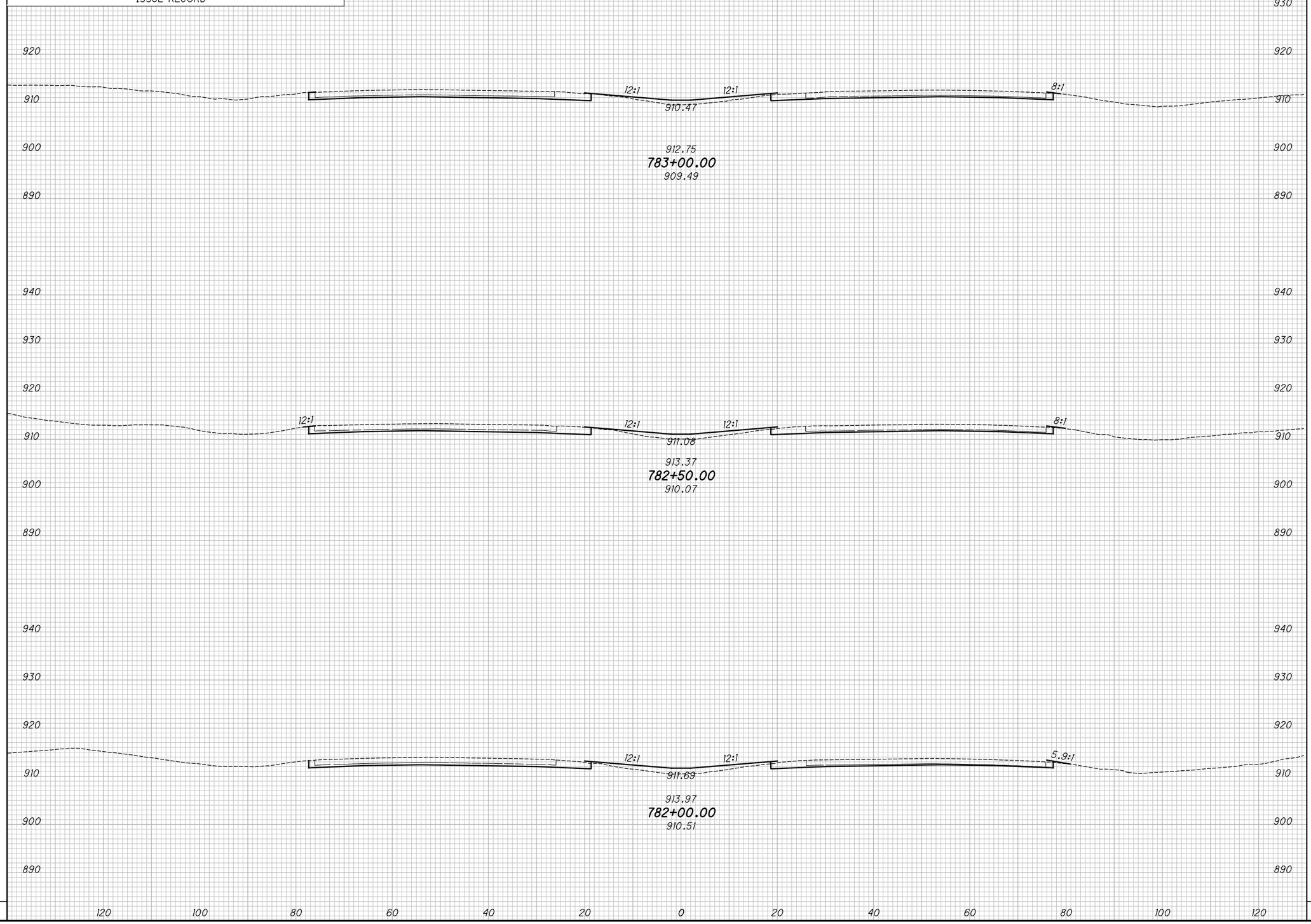
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 782+00.00 TO STA. 783+00.00

MAD-70-8.62

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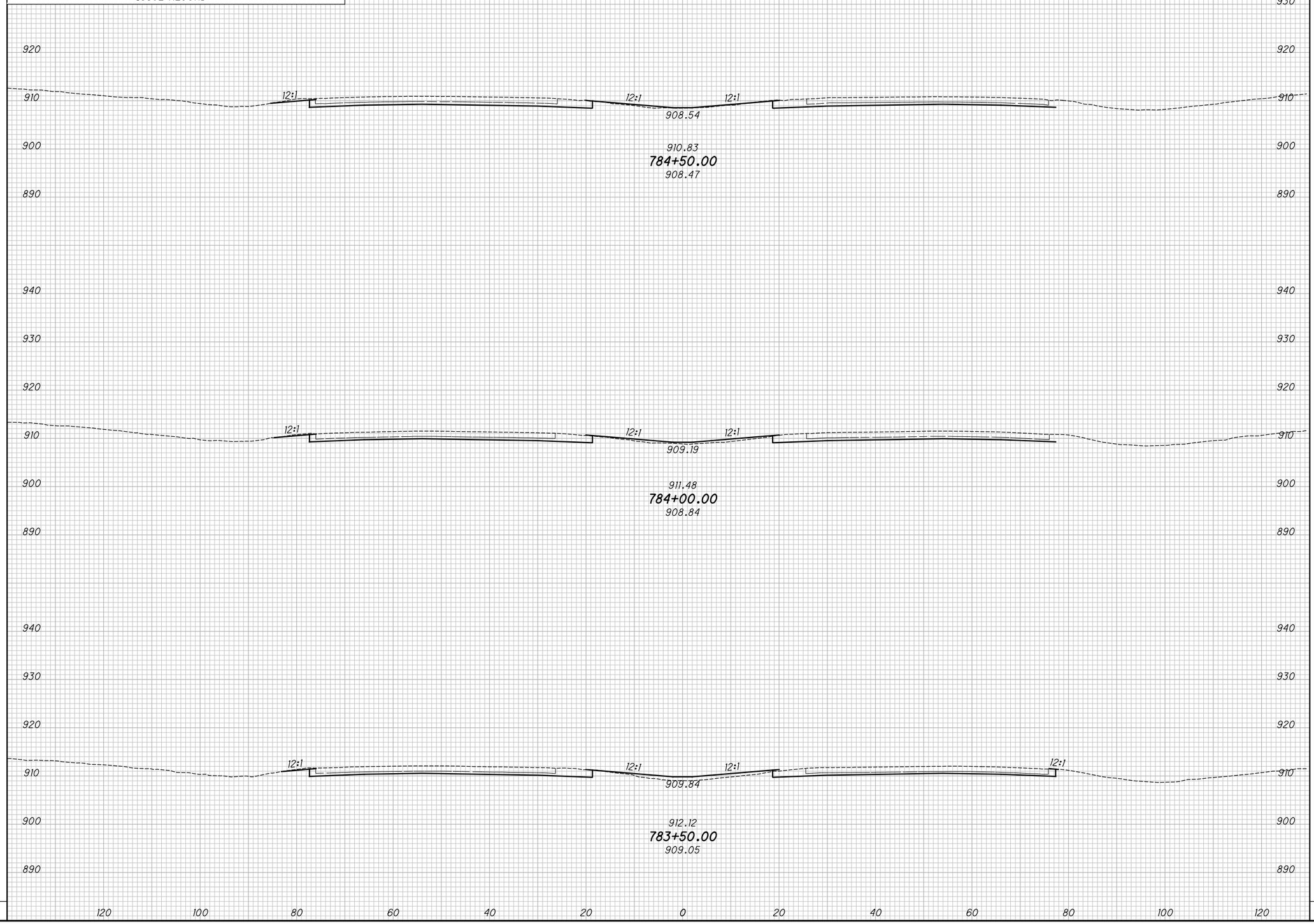
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 783+50.00 TO STA. 784+50.00

MAD-70-8.62

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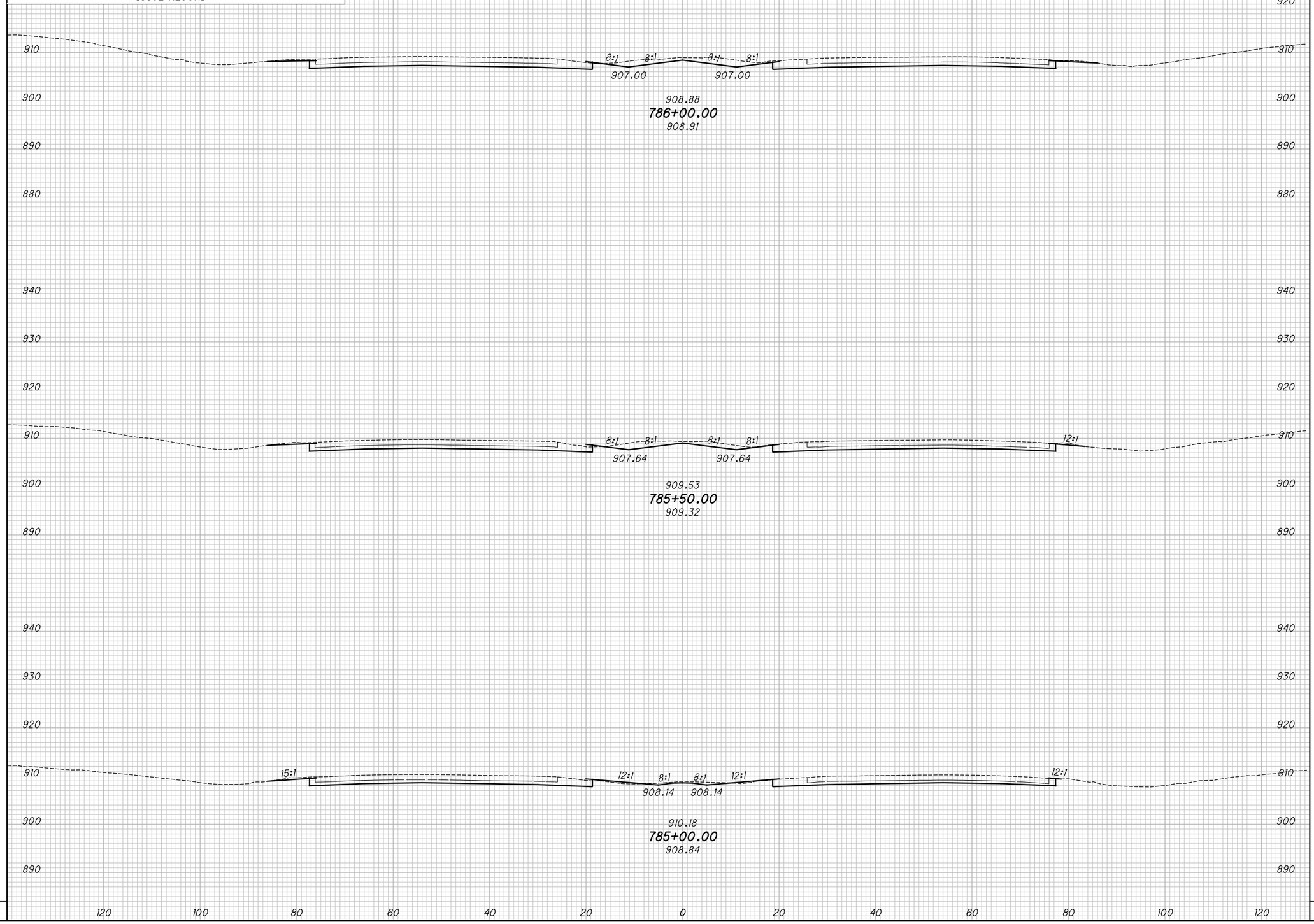
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 785+00.00 TO STA. 786+00.00

MAD-70-8.62

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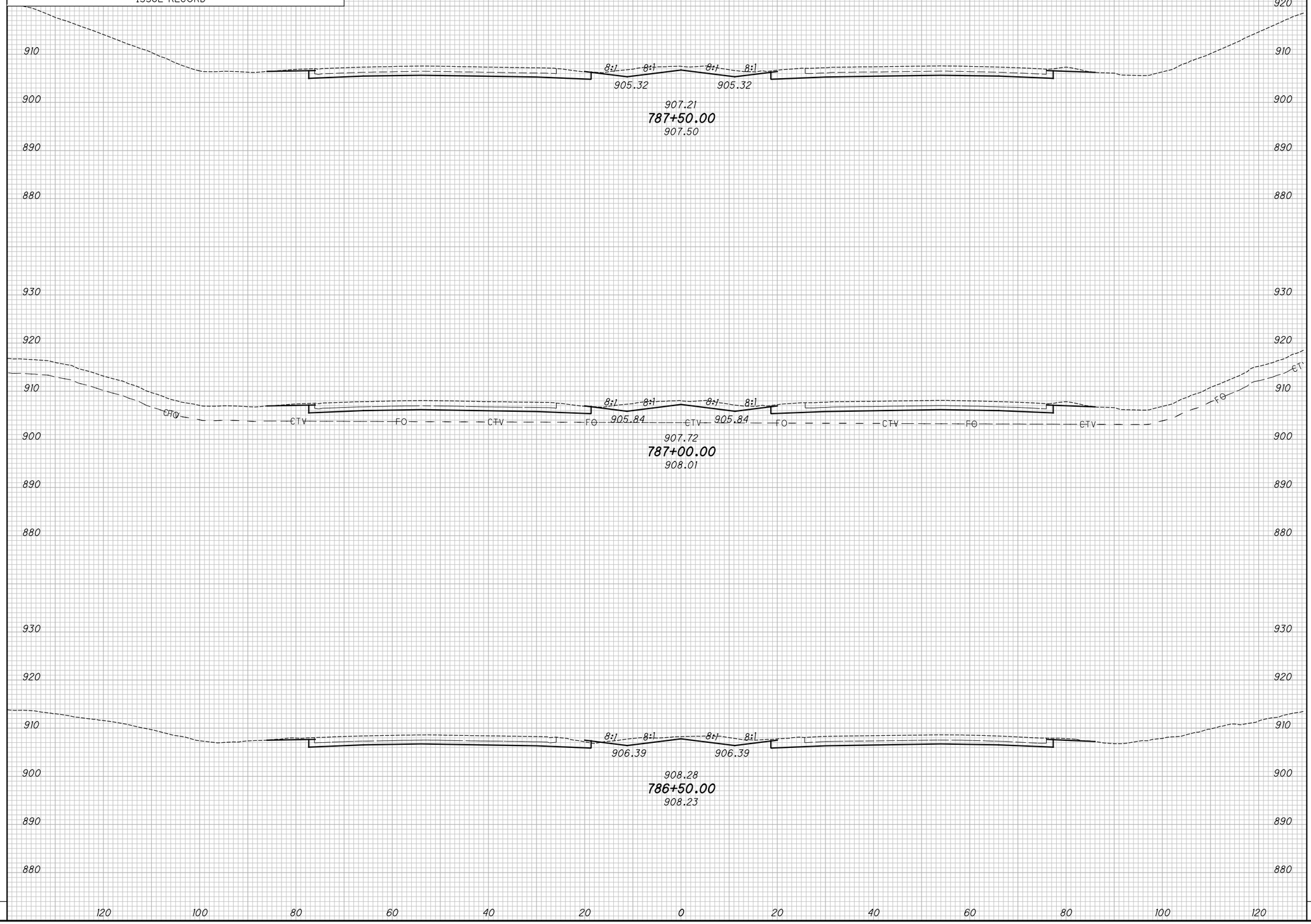
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 786+50.00 TO STA. 787+50.00

MAD-70-8.62

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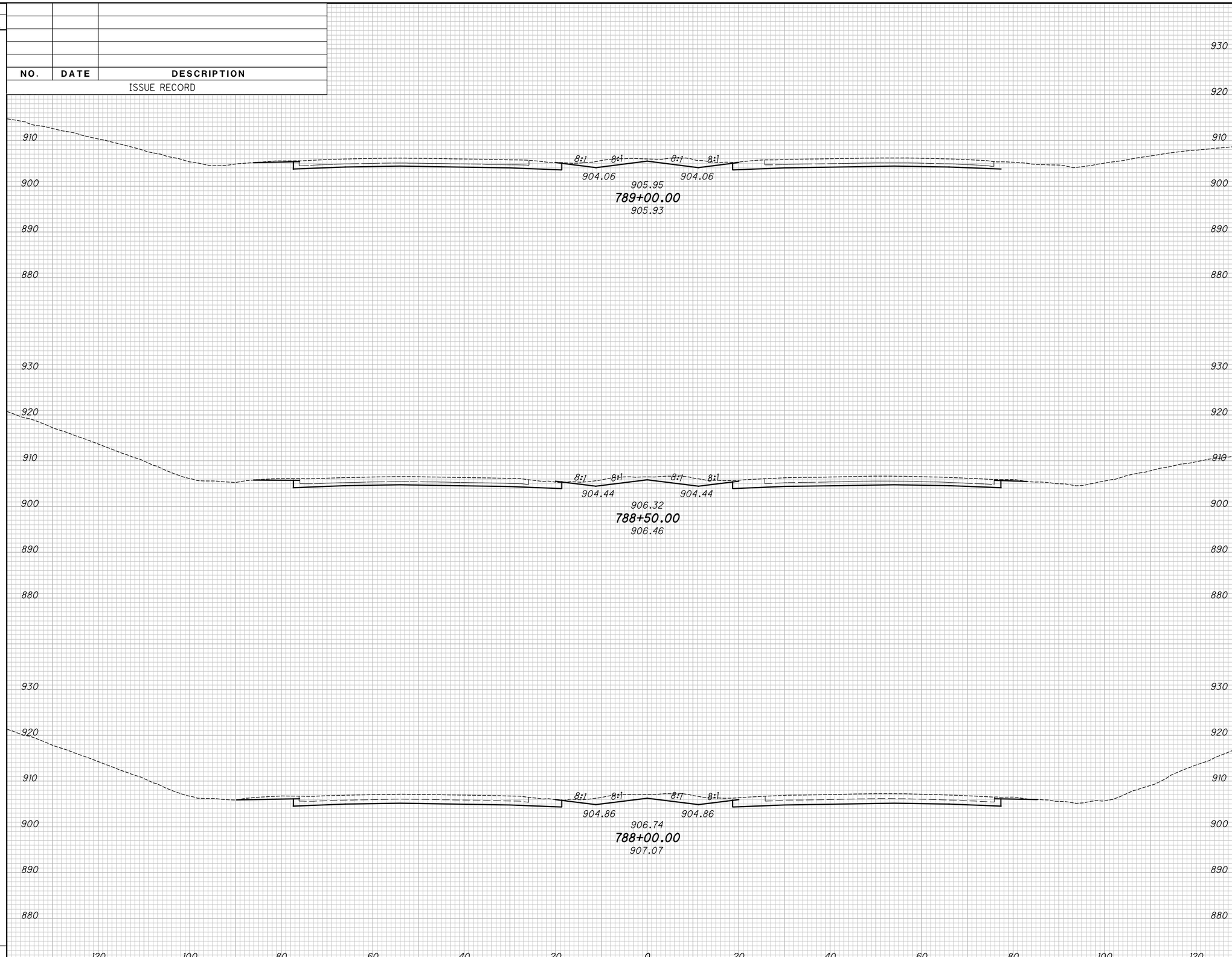
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

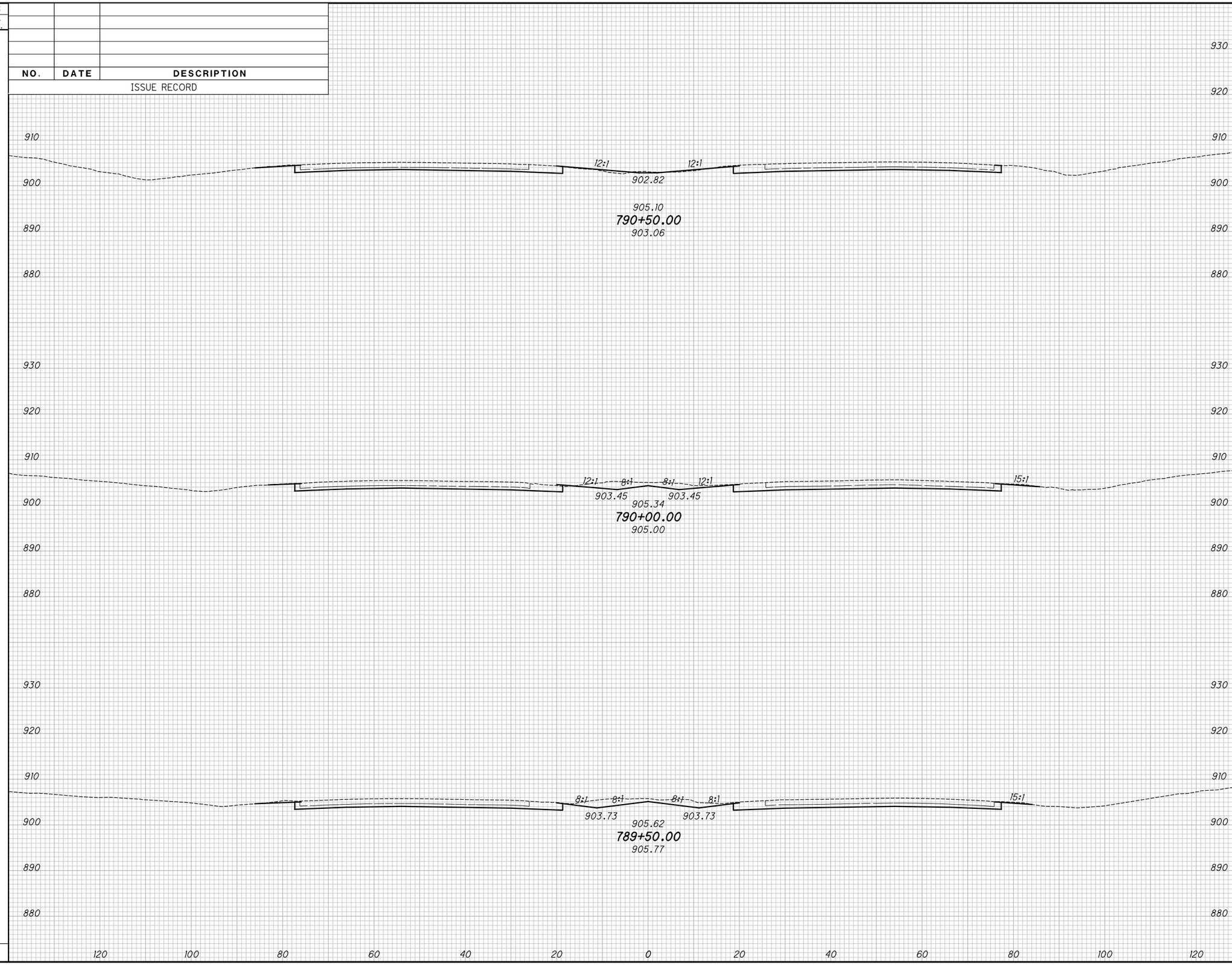
STA. 788+00.00 TO STA. 789+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_215 3/20/2019 9:49:53 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 789+50.00 TO STA. 790+50.00

MAD-70-8.62

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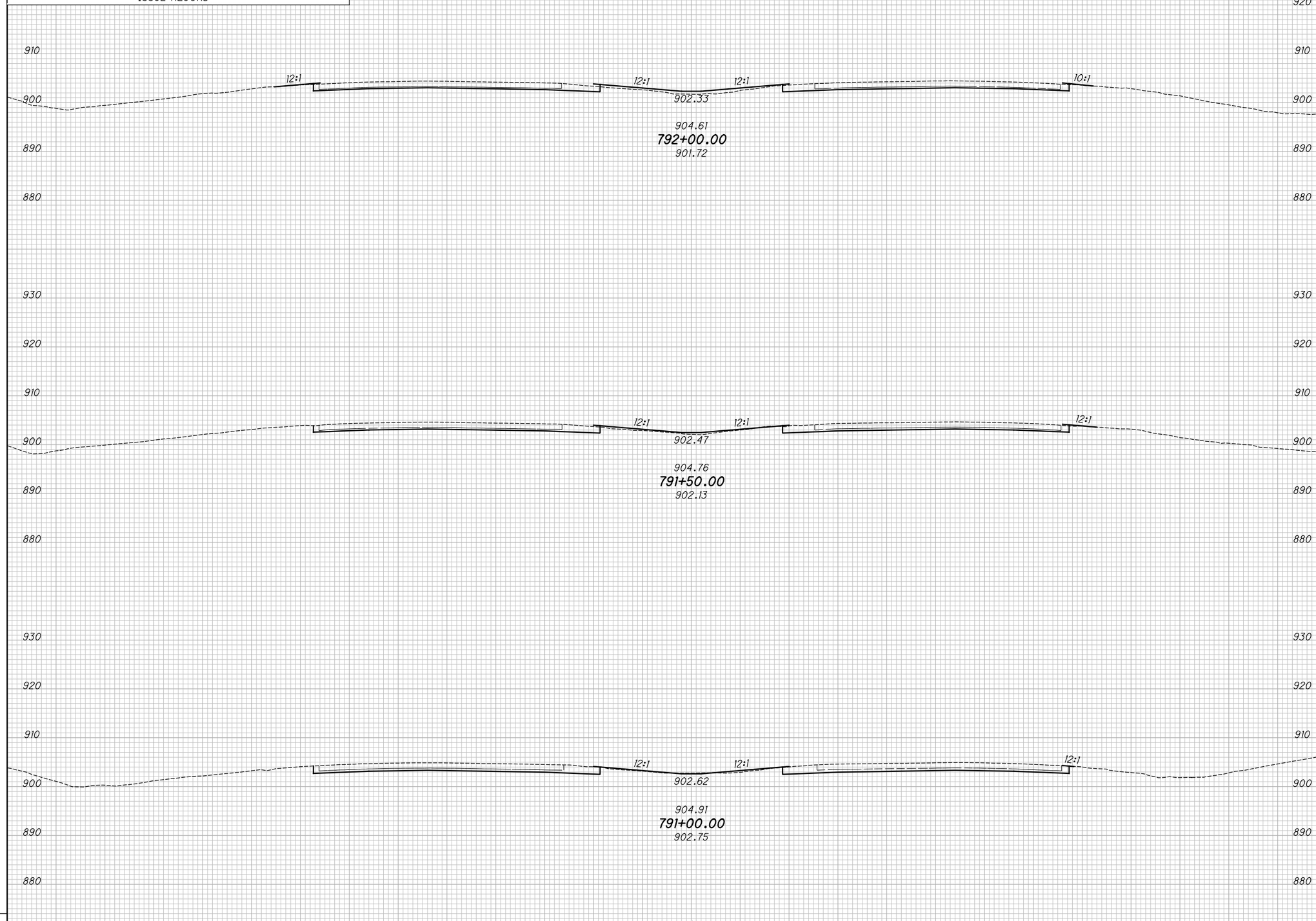
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 791+00.00 TO STA. 792+00.00

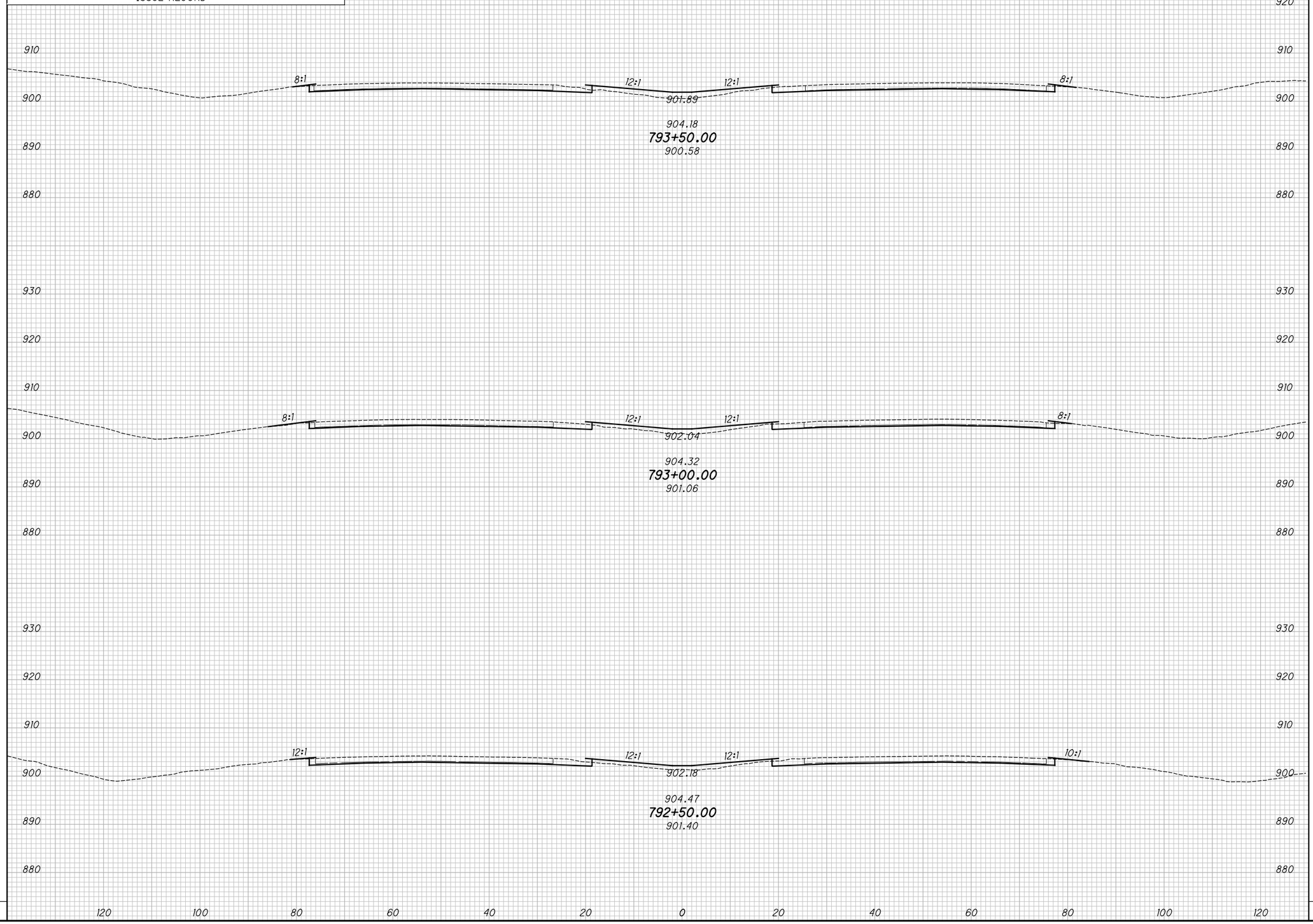
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_217 3/20/2019 9:49:58 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 792+50.00 TO STA. 793+50.00

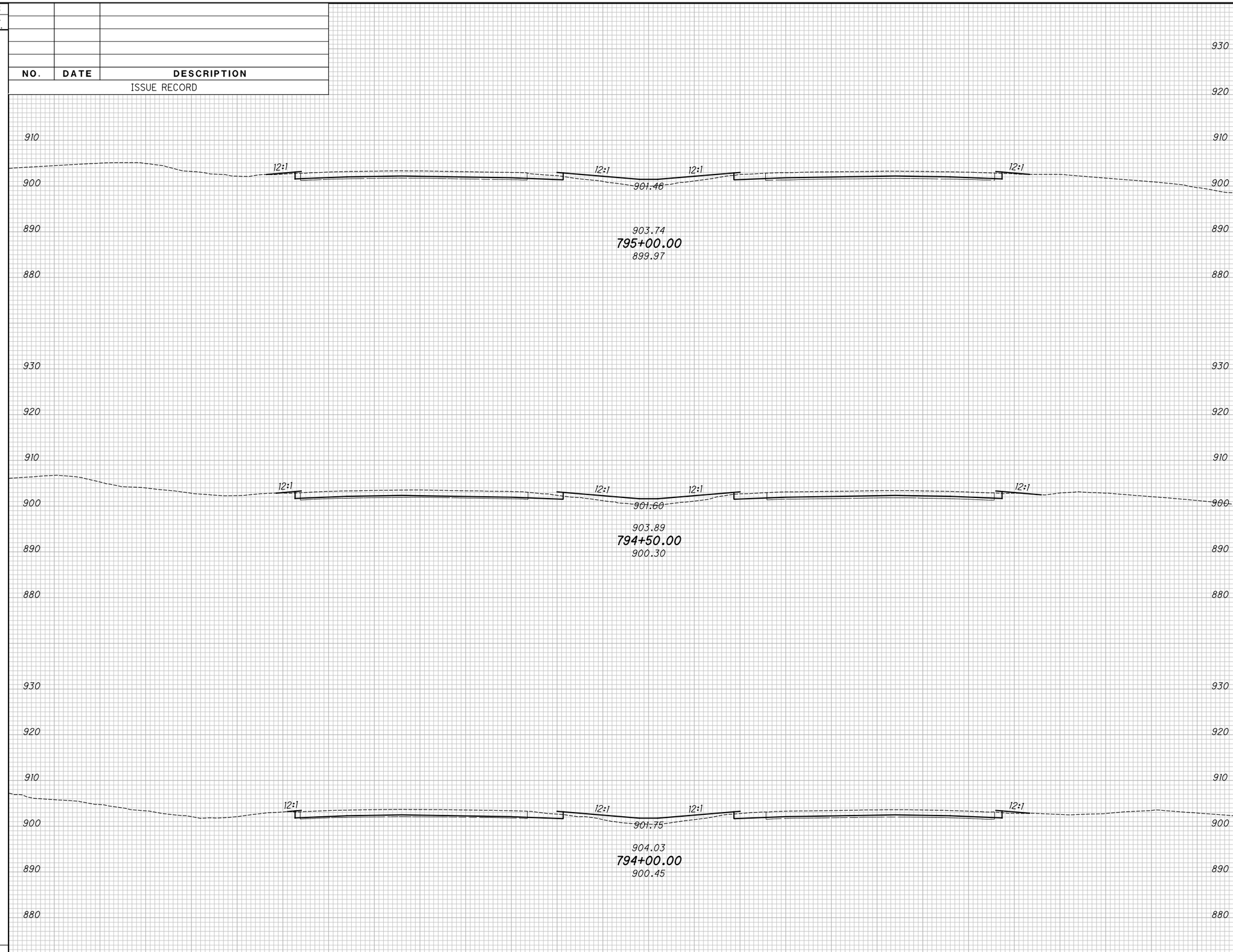
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_218 3/20/2019 9:50:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 794+00.00 TO STA. 795+00.00

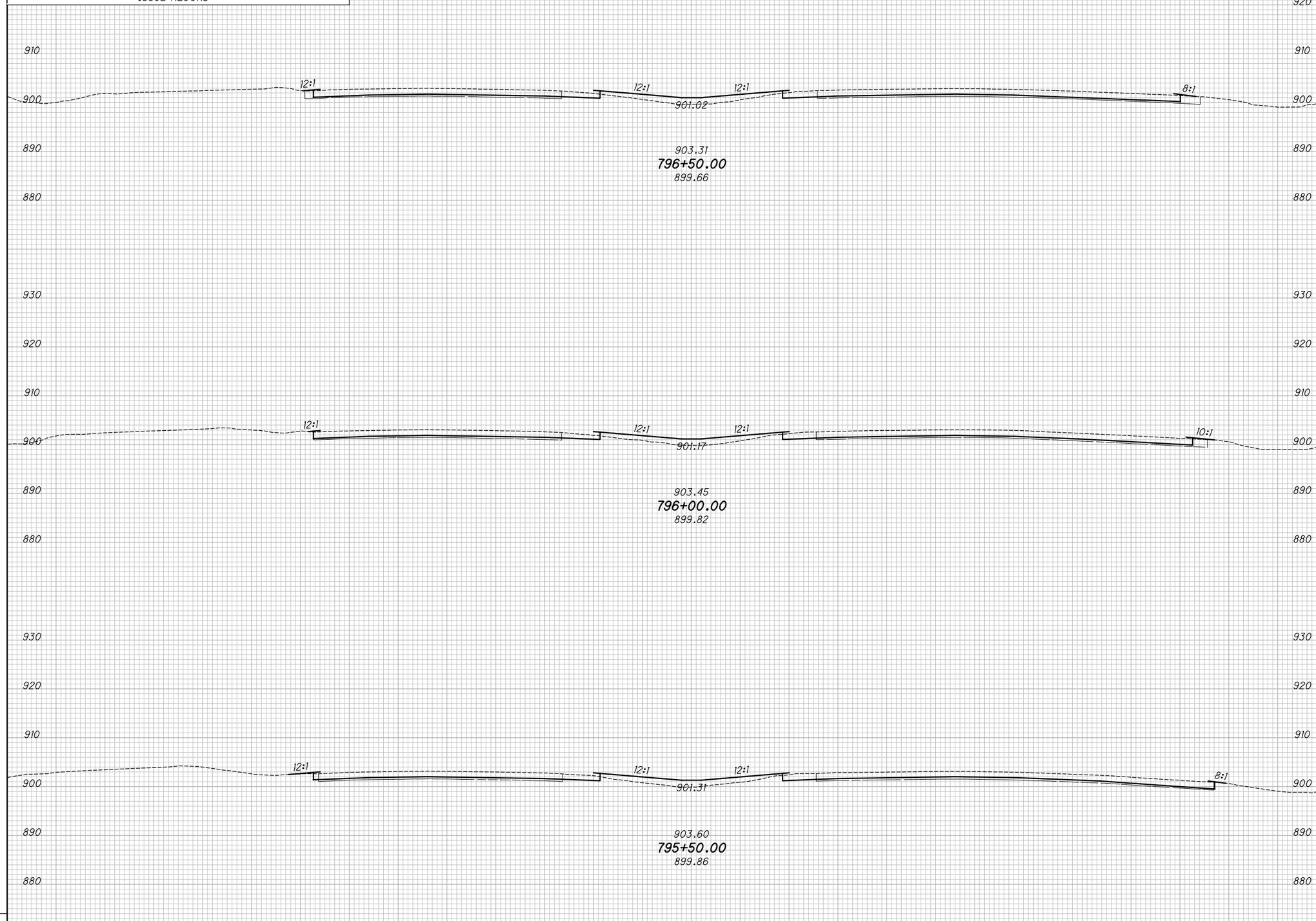
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_219 3/20/2019 9:50:02 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

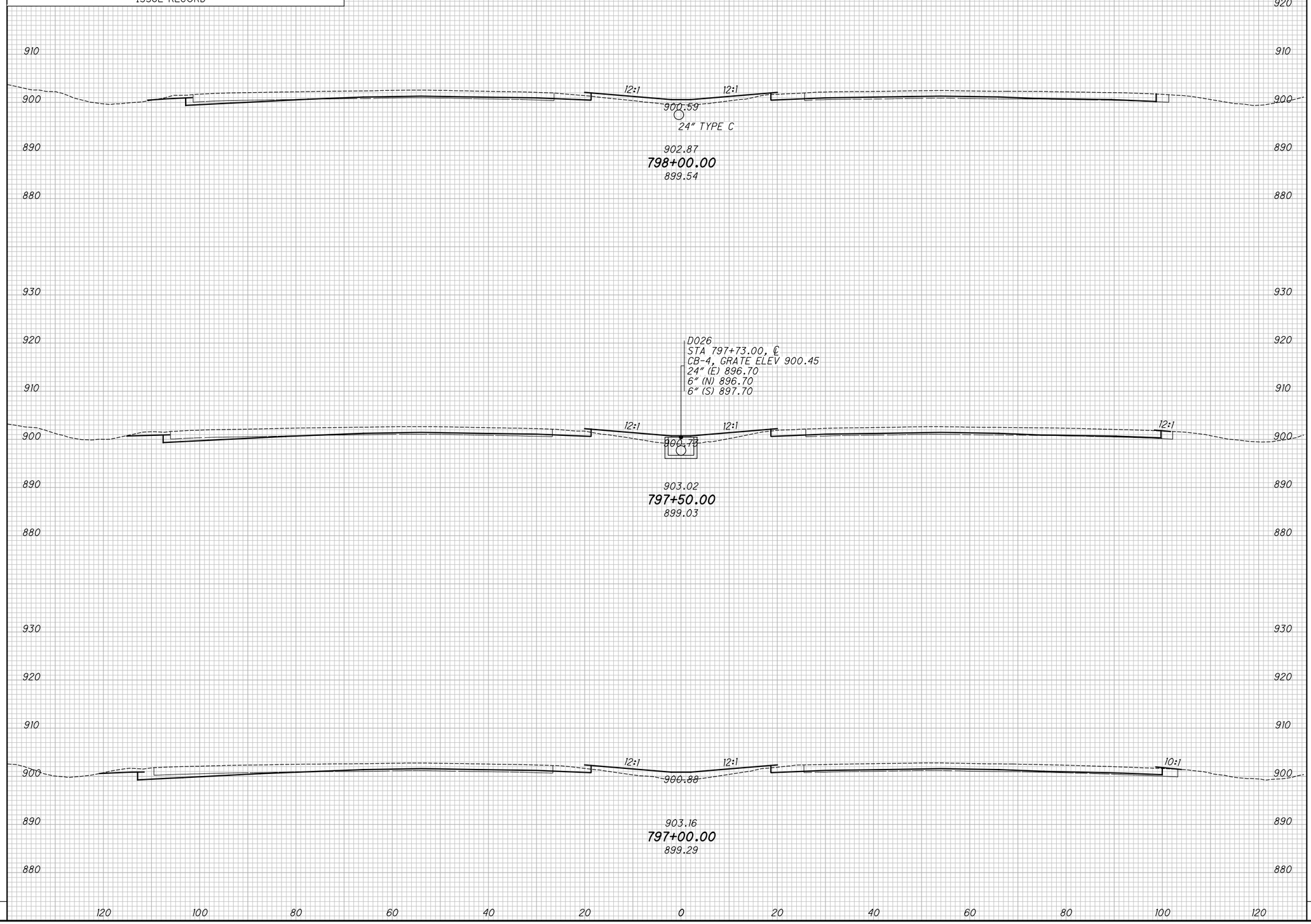
CROSS SECTIONS - IR 70
STA. 795+50.00 TO STA. 796+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_220 3/20/2019 9:50:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 797+00.00 TO STA. 798+00.00

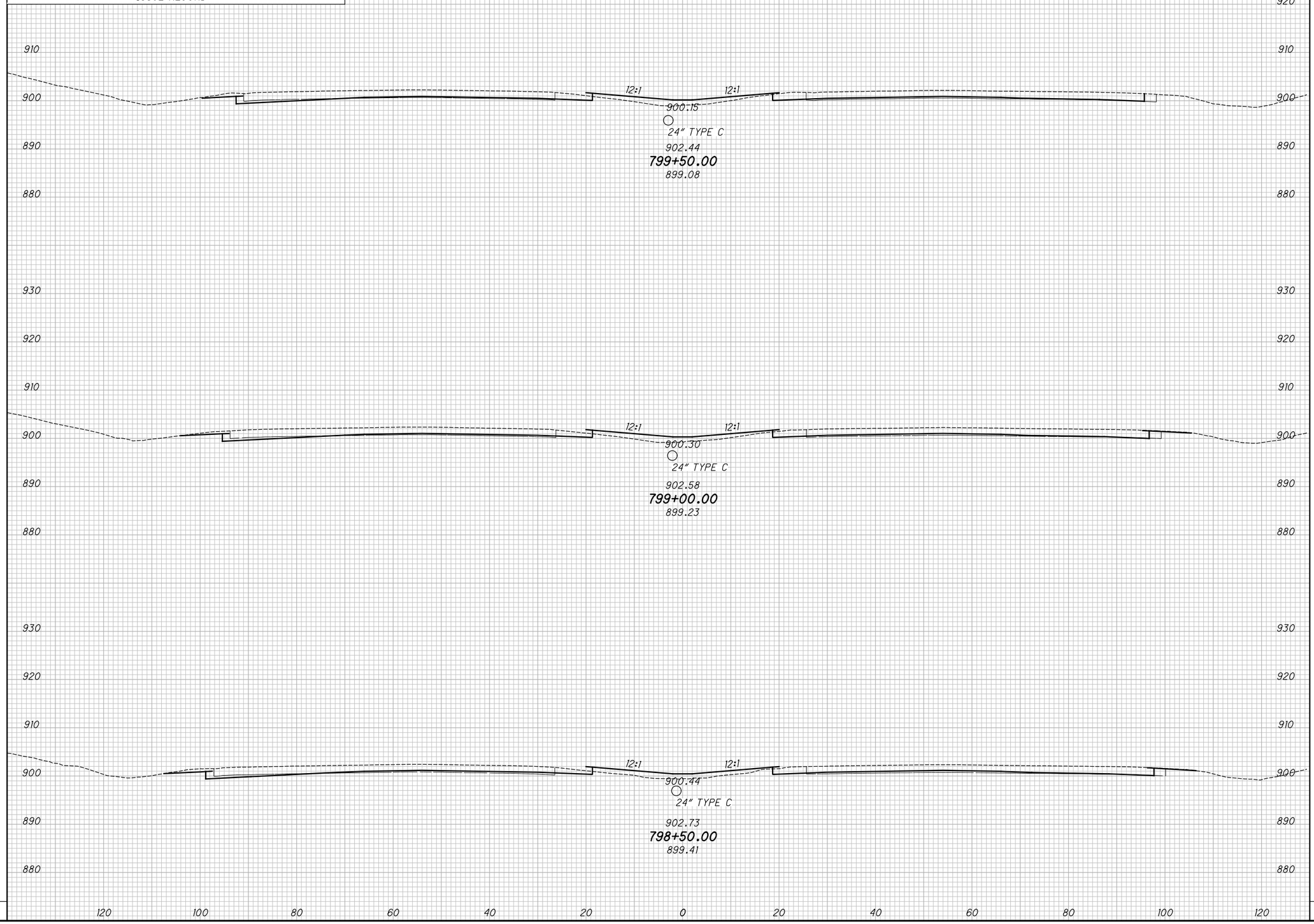
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_22\ 3/20/2019 9:50:06 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 798+50.00 TO STA. 799+50.00

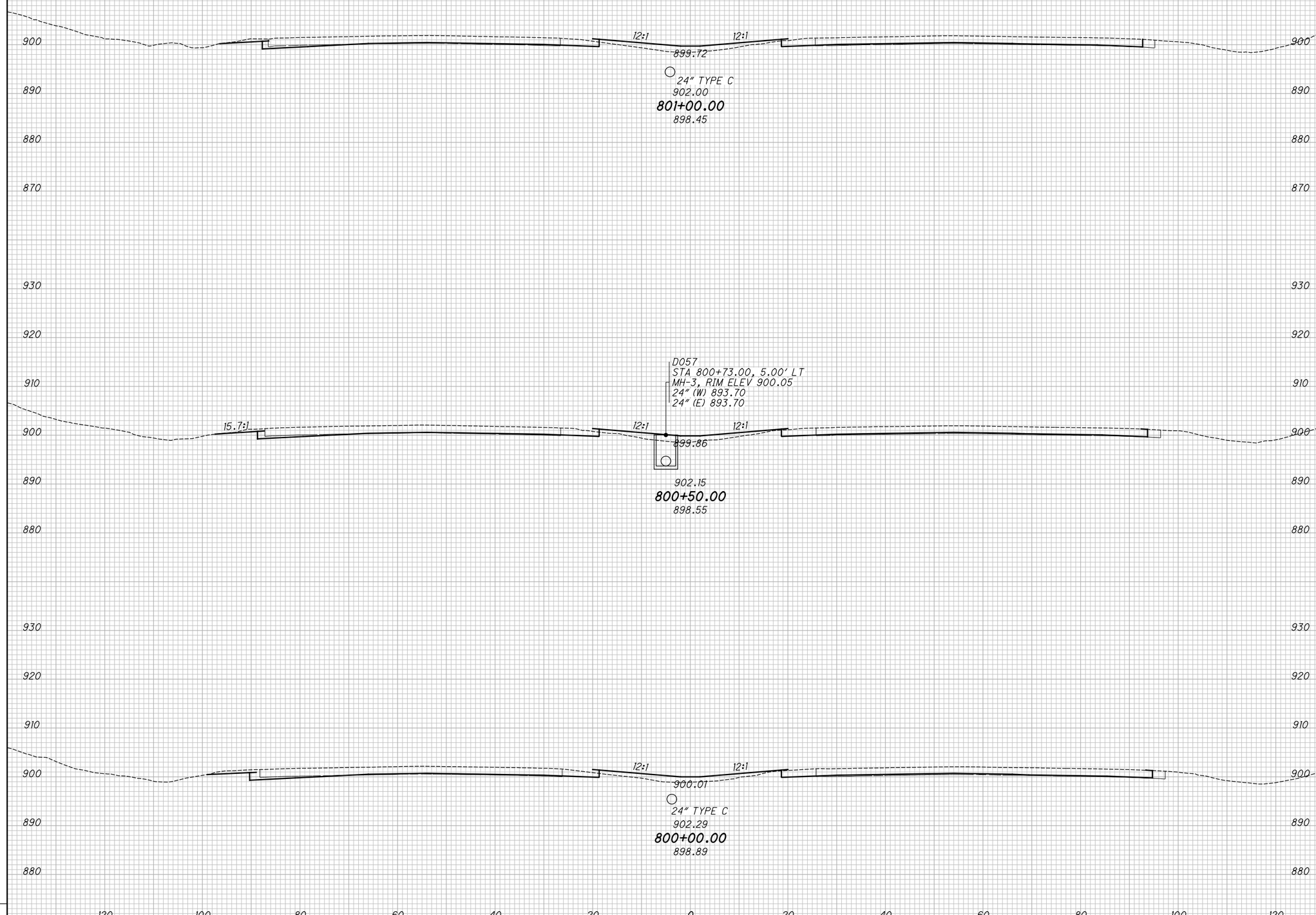
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_222 3/20/2019 9:50:08 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 800+00.00 TO STA. 801+00.00

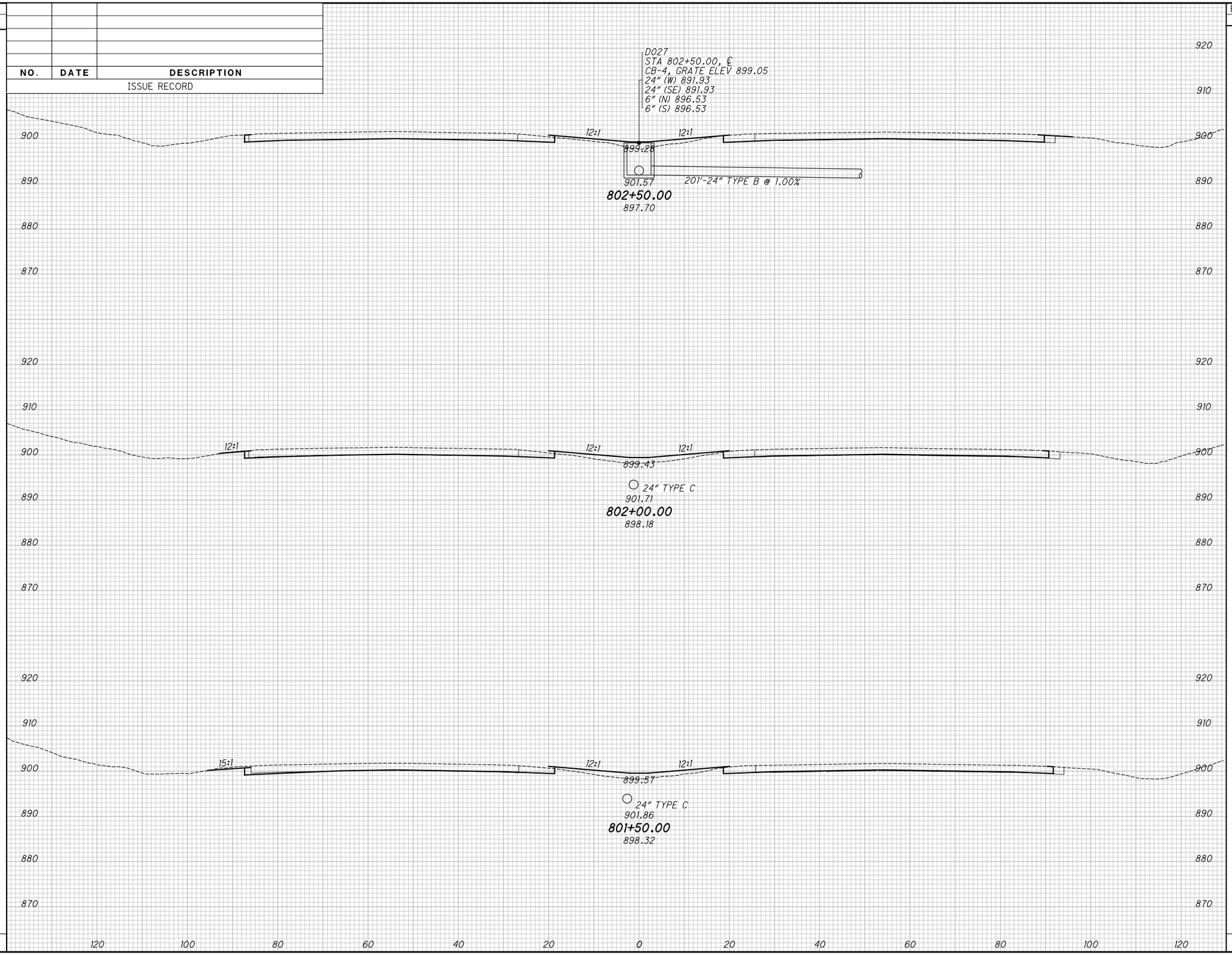
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_223 3/20/2019 9:50:10 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

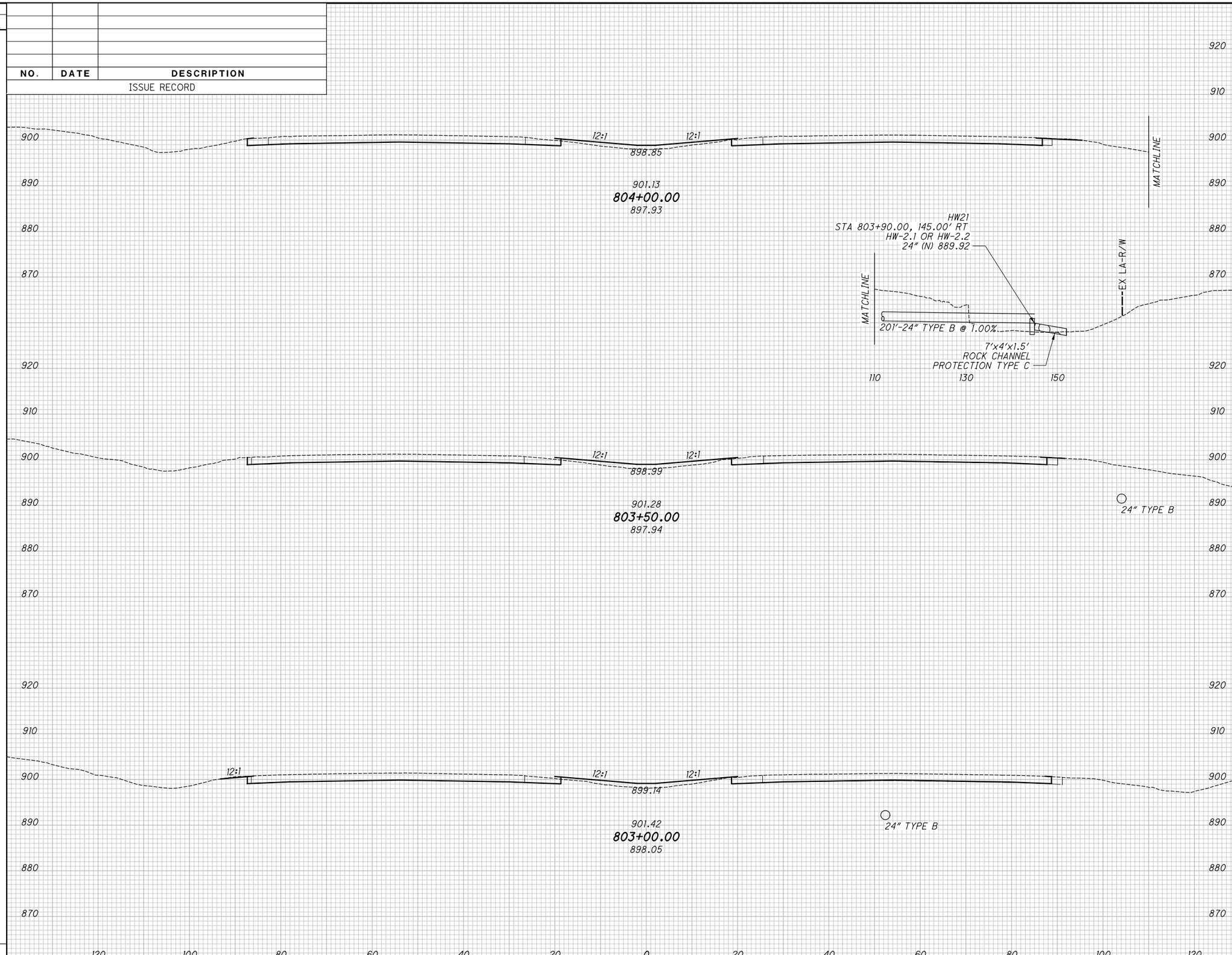
CROSS SECTIONS - IR 70
STA. 801+50.00 TO STA. 802+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_224 3/20/2019 9:50:11 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 803+00.00 TO STA. 804+00.00

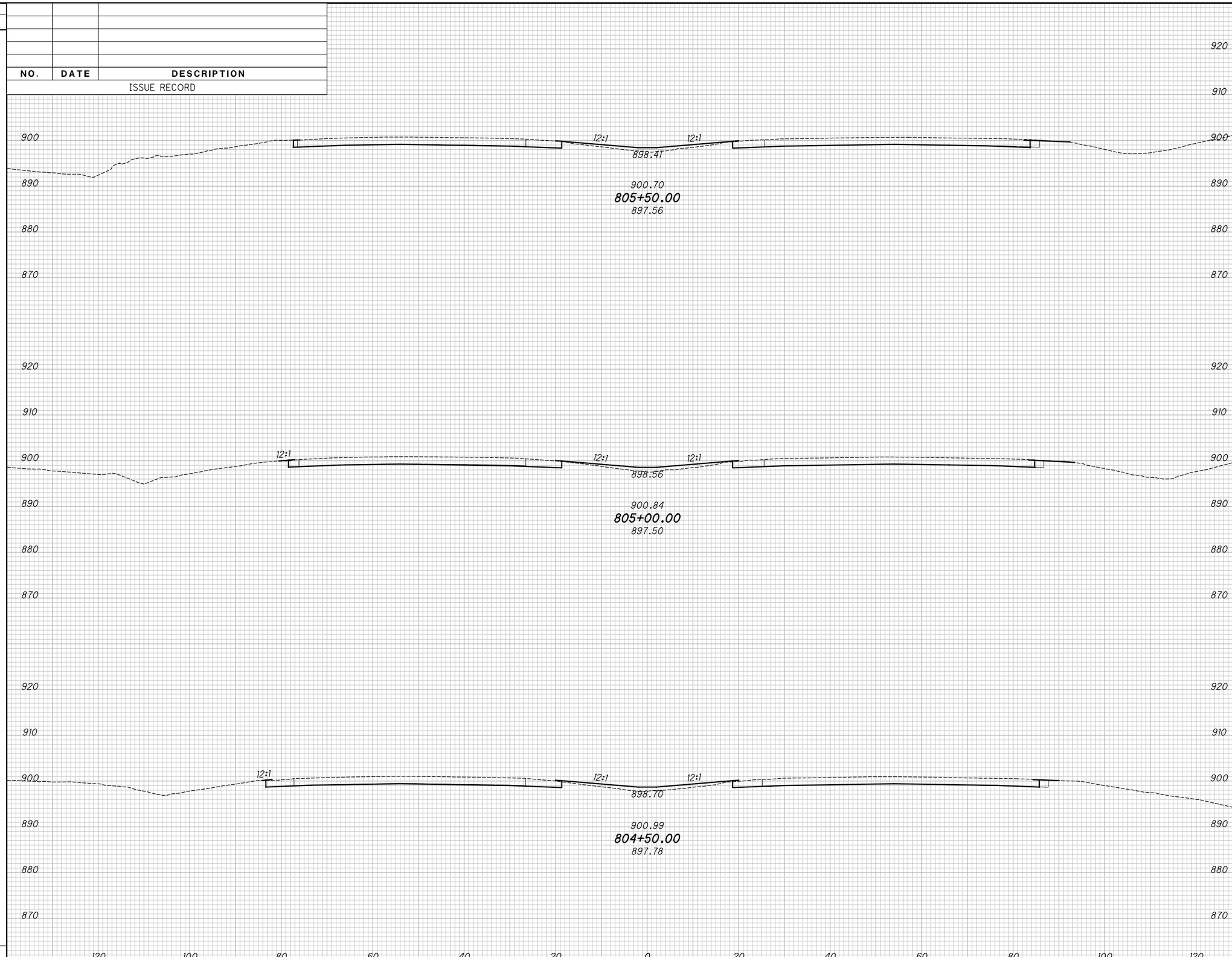
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_225 3/20/2019 9:50:14 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 804+50.00 TO STA. 805+50.00

MAD-70-8.62

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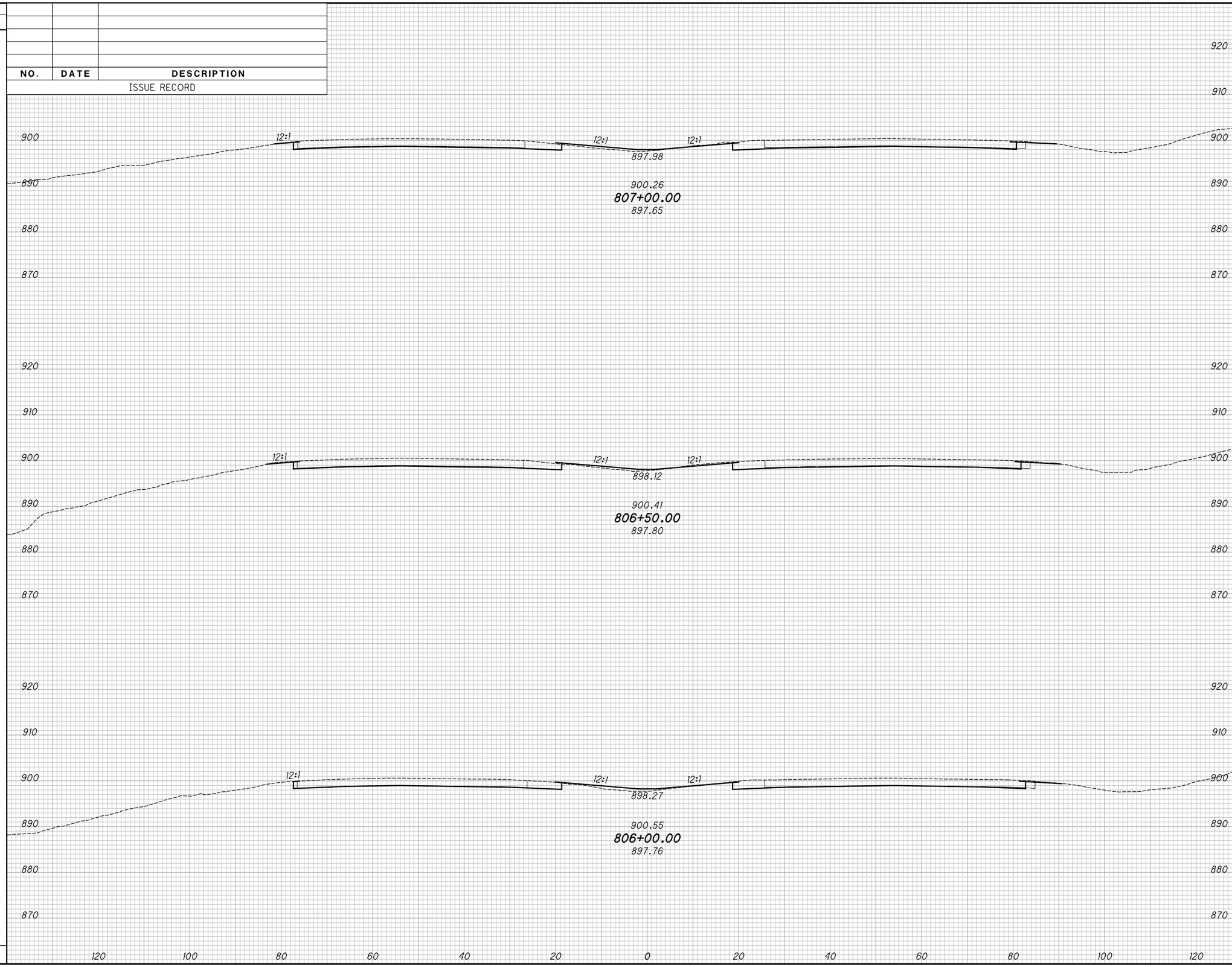
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

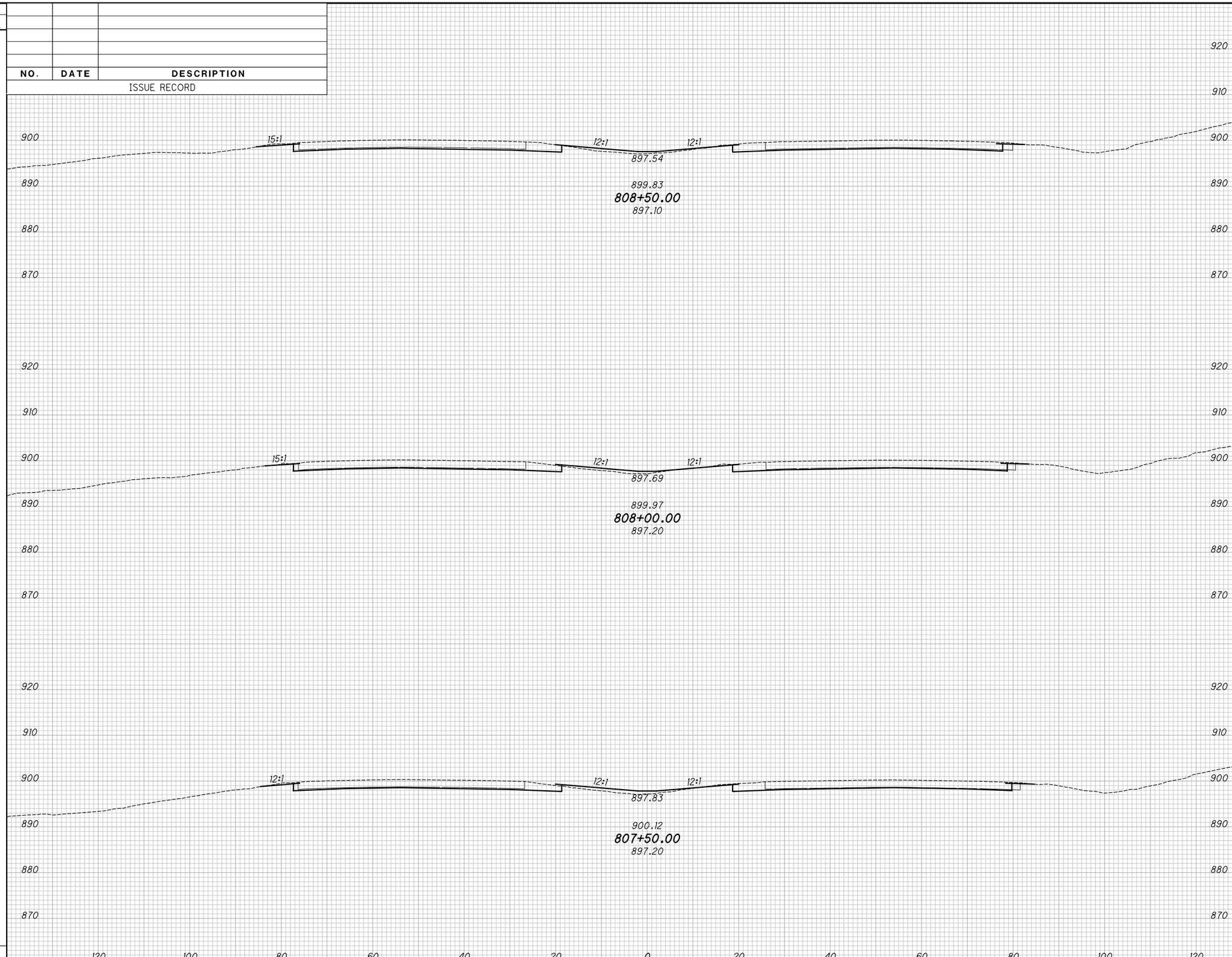
CROSS SECTIONS - IR 70
STA. 806+00.00 TO STA. 807+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_227 3/20/2019 9:50:17 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

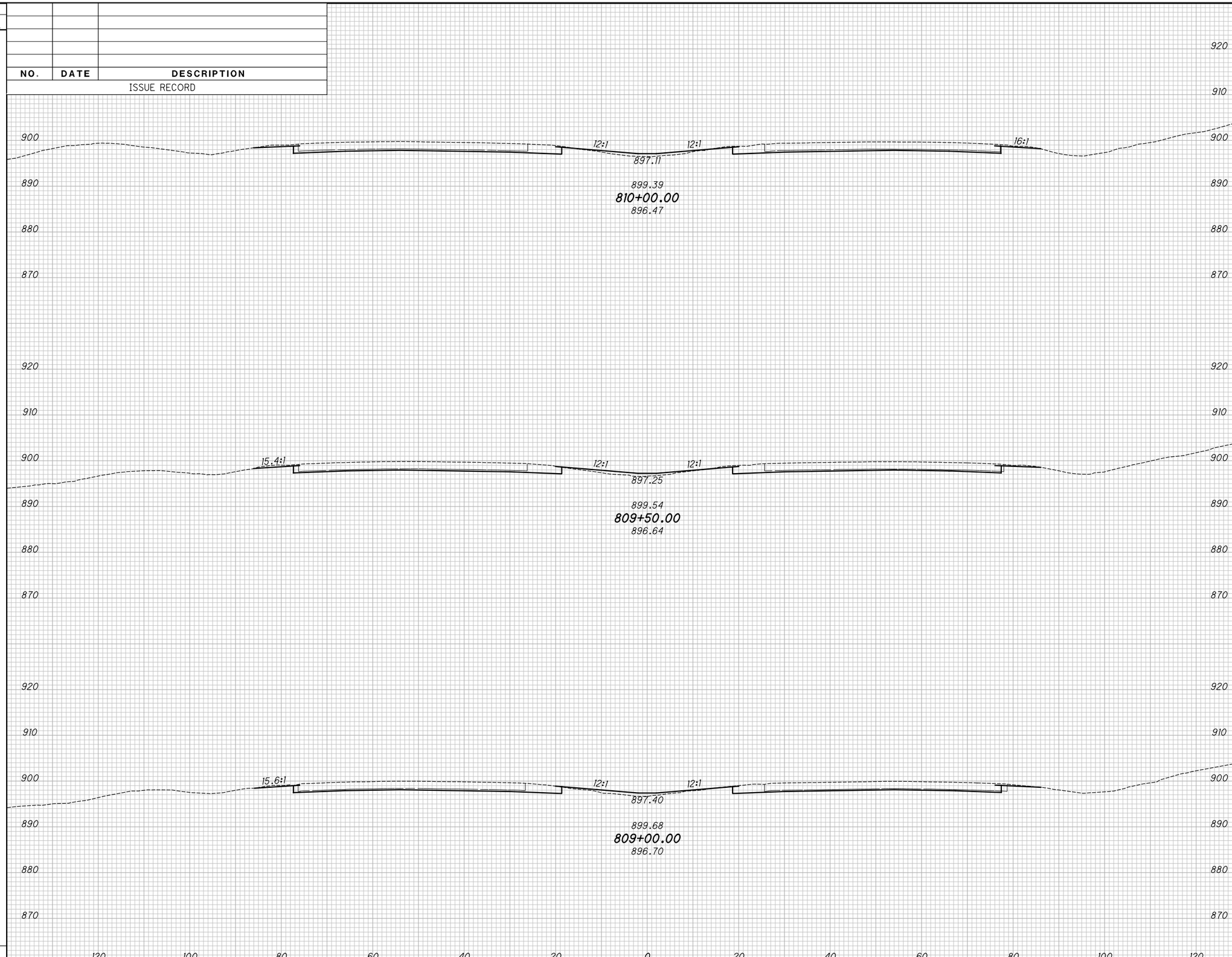
CROSS SECTIONS - IR 70
STA. 807+50.00 TO STA. 808+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_228 3/20/2019 9:50:19 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70

STA. 809+00.00 TO STA. 810+00.00

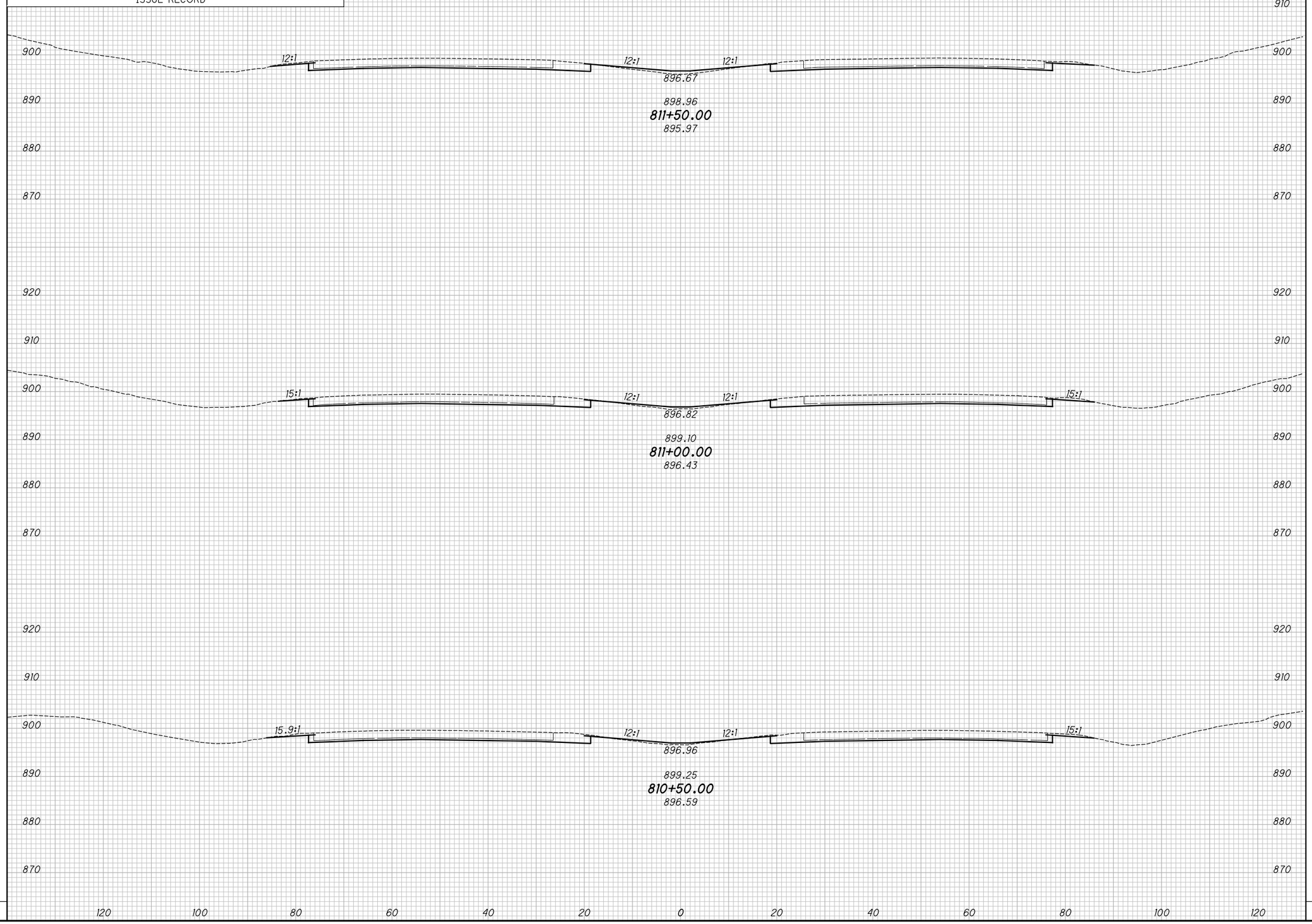
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_229 3/20/2019 9:50:21 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 810+50.00 TO STA. 811+50.00

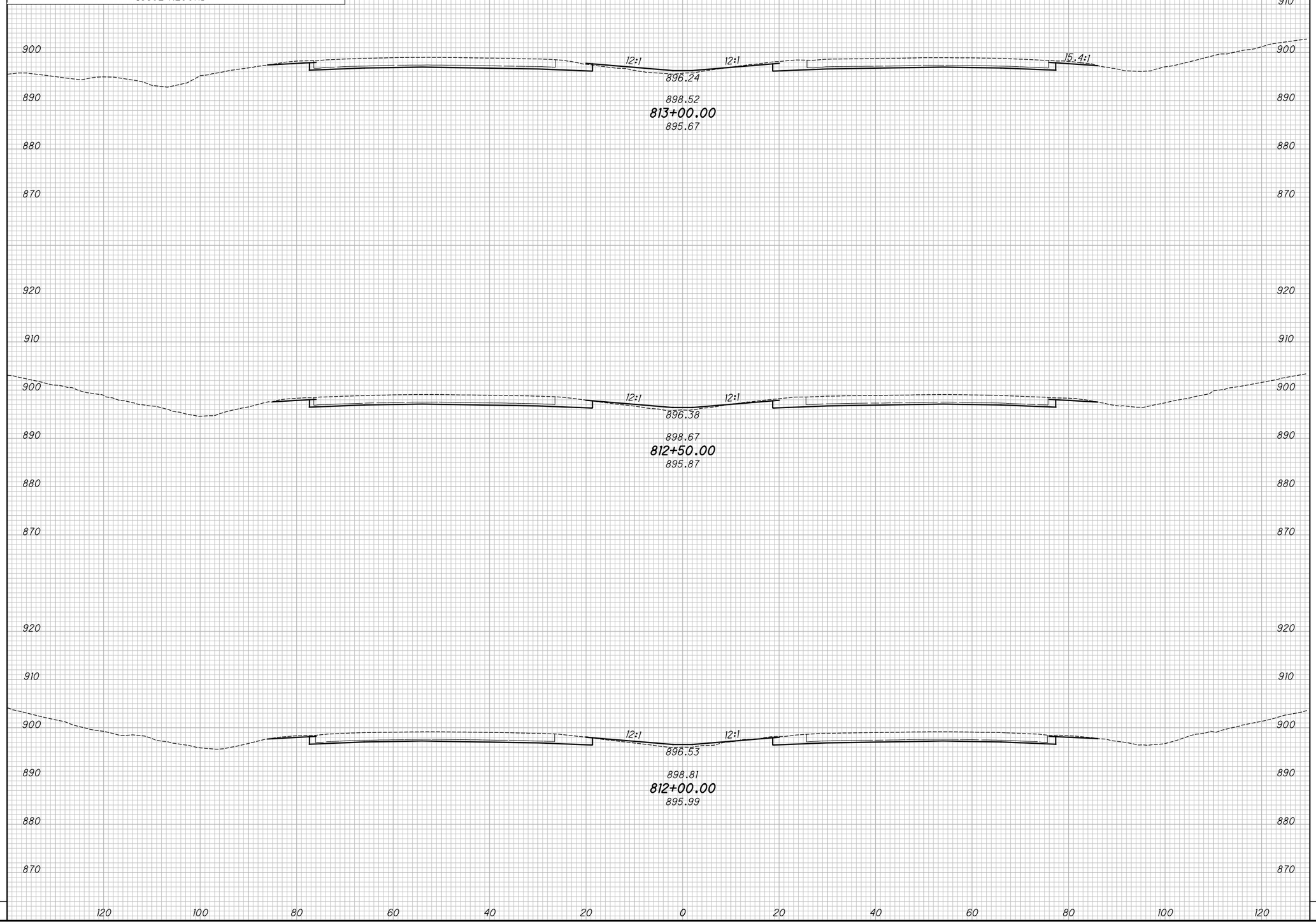
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_230 3/20/2019 9:50:23 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

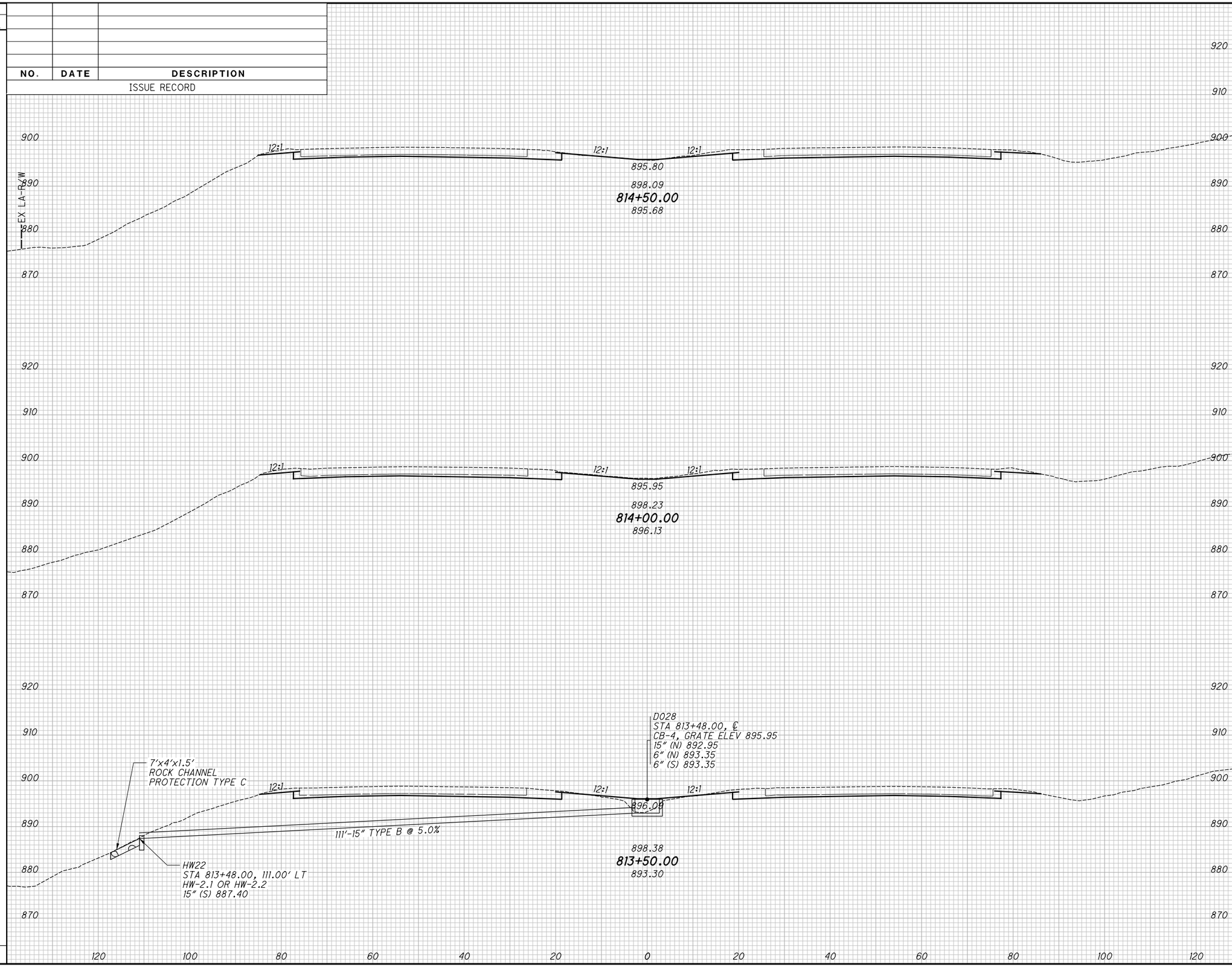
CROSS SECTIONS - IR 70
STA. 812+00.00 TO STA. 813+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_231 3/20/2019 9:50:25 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

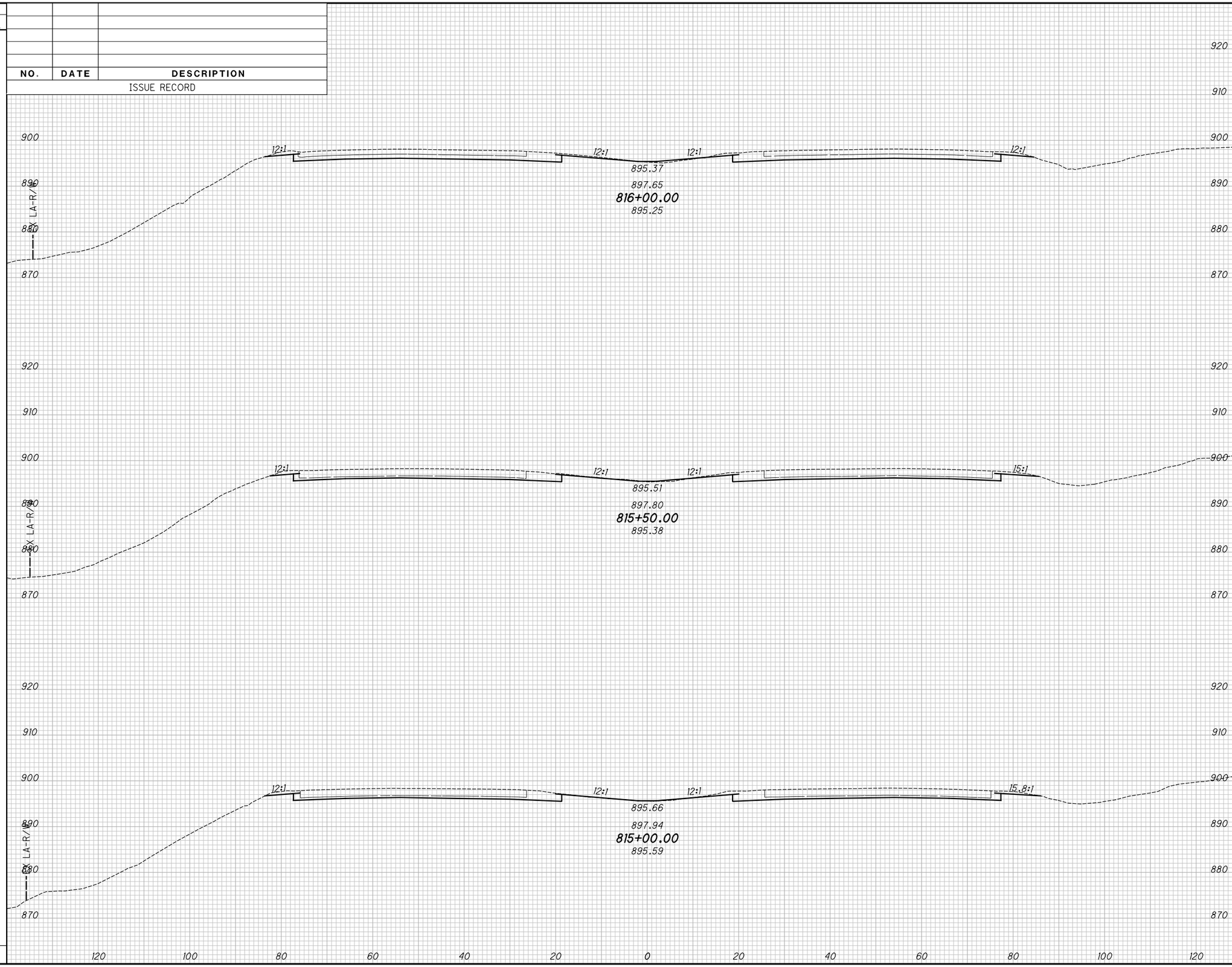
CROSS SECTIONS - IR 70
STA. 813+50.00 TO STA. 814+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_232 3/20/2019 9:50:27 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 815+00.00 TO STA. 816+00.00

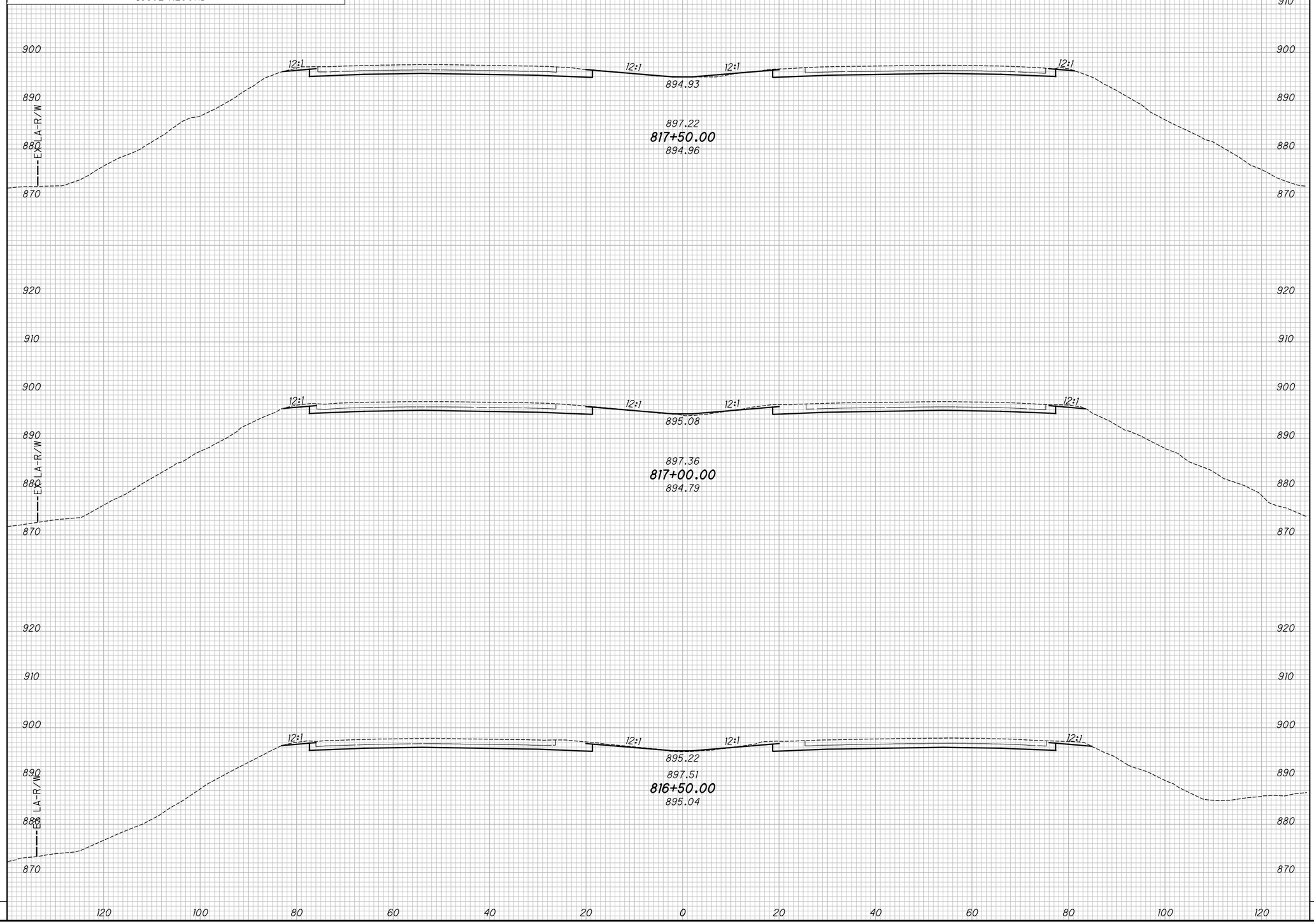
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_233 3/20/2019 9:50:29 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

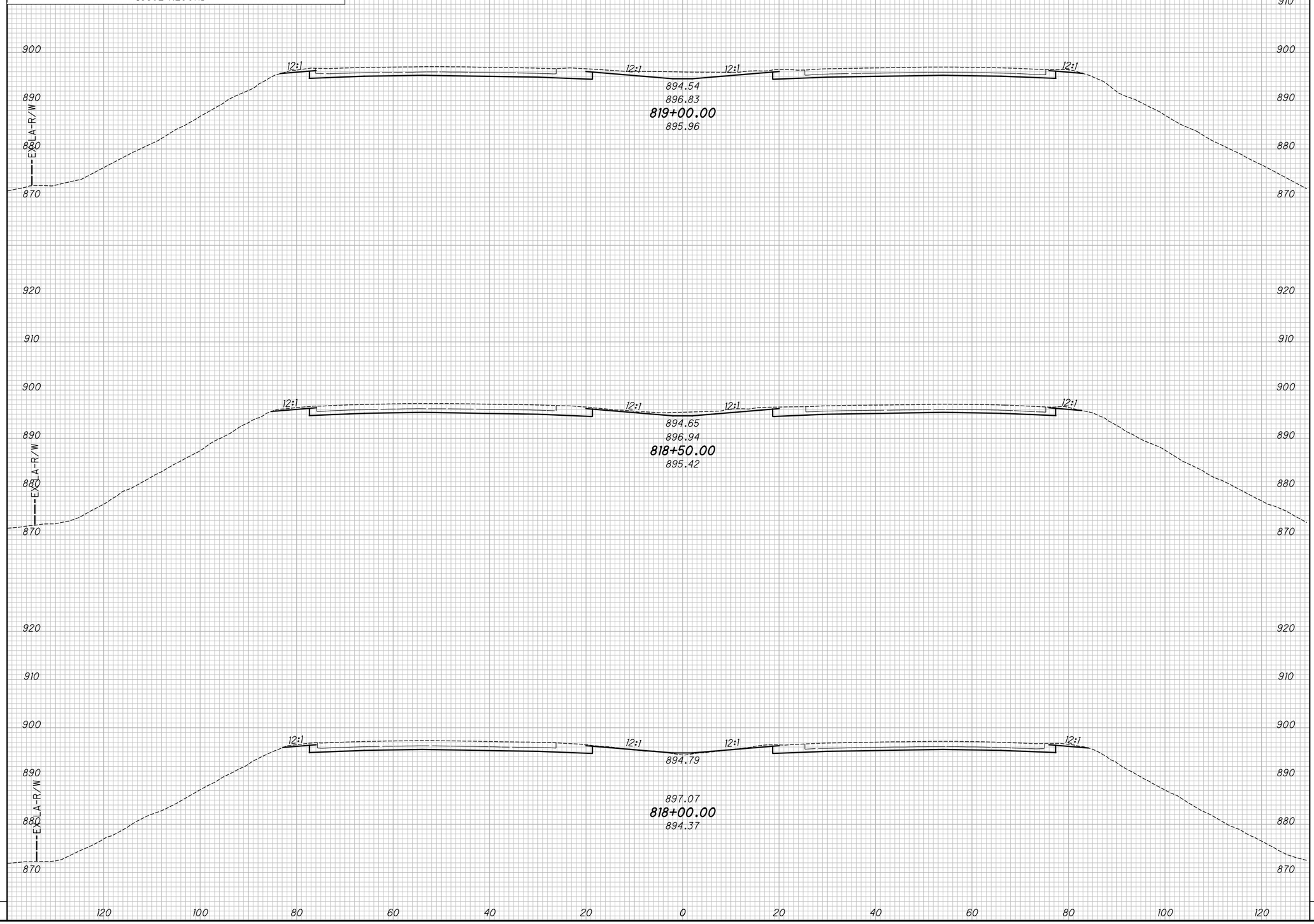
CROSS SECTIONS - IR 70
STA. 816+50.00 TO STA. 817+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_234 3/20/2019 9:50:31 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 818+00.00 TO STA. 819+00.00

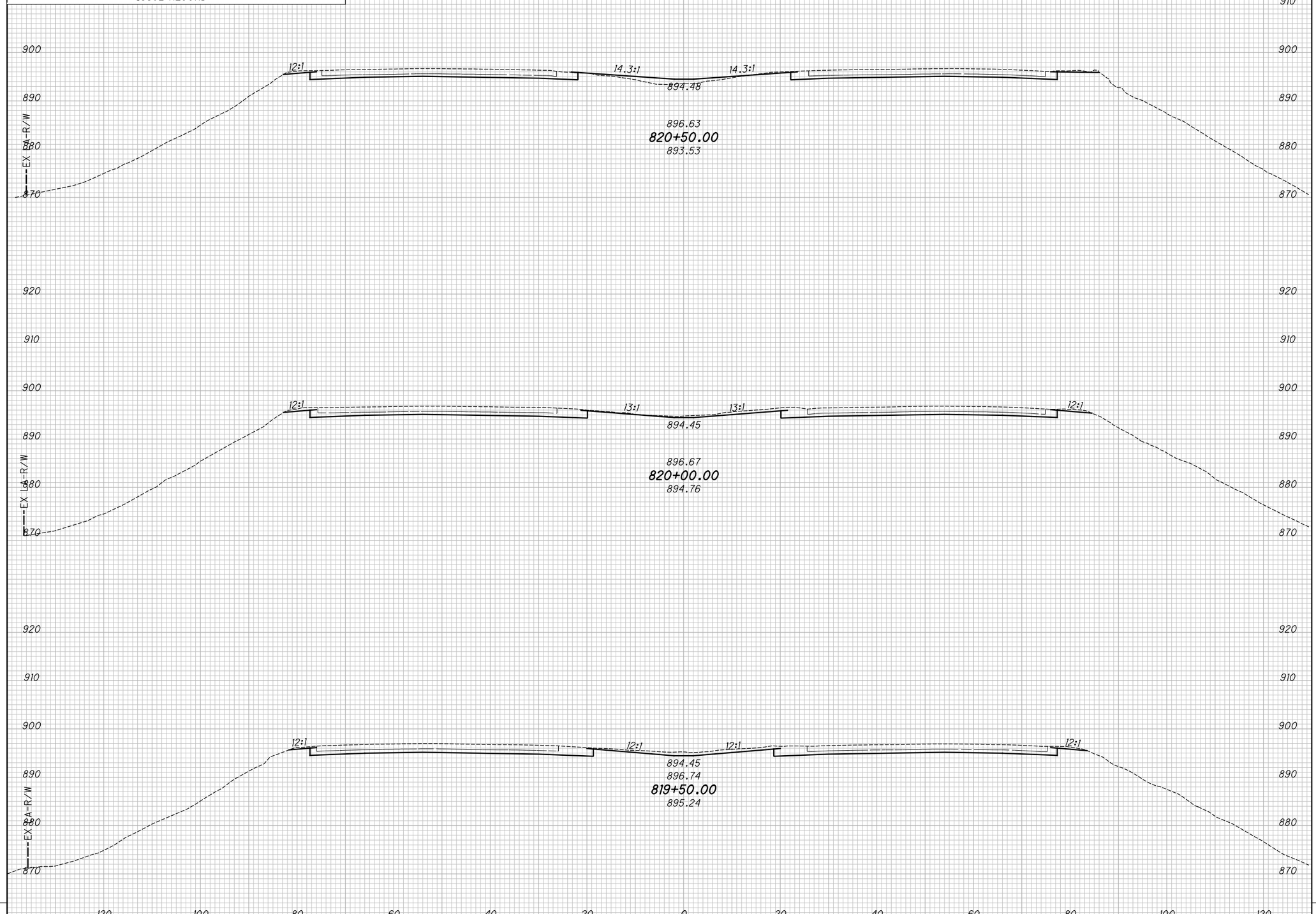
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_235 3/20/2019 9:50:33 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - IR 70
STA. 819+50.00 TO STA. 820+50.00

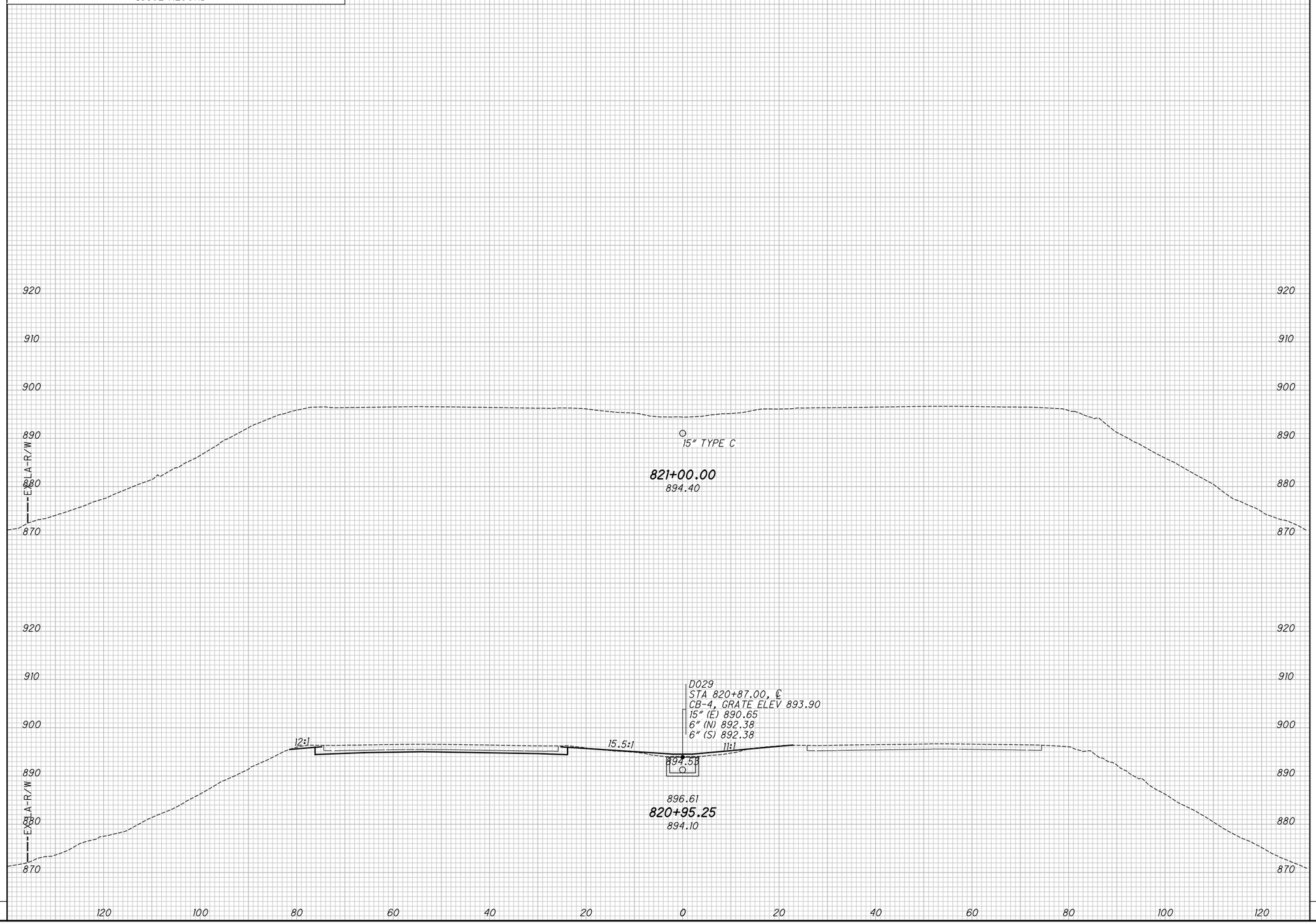
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_236 3/20/2019 9:50:35 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

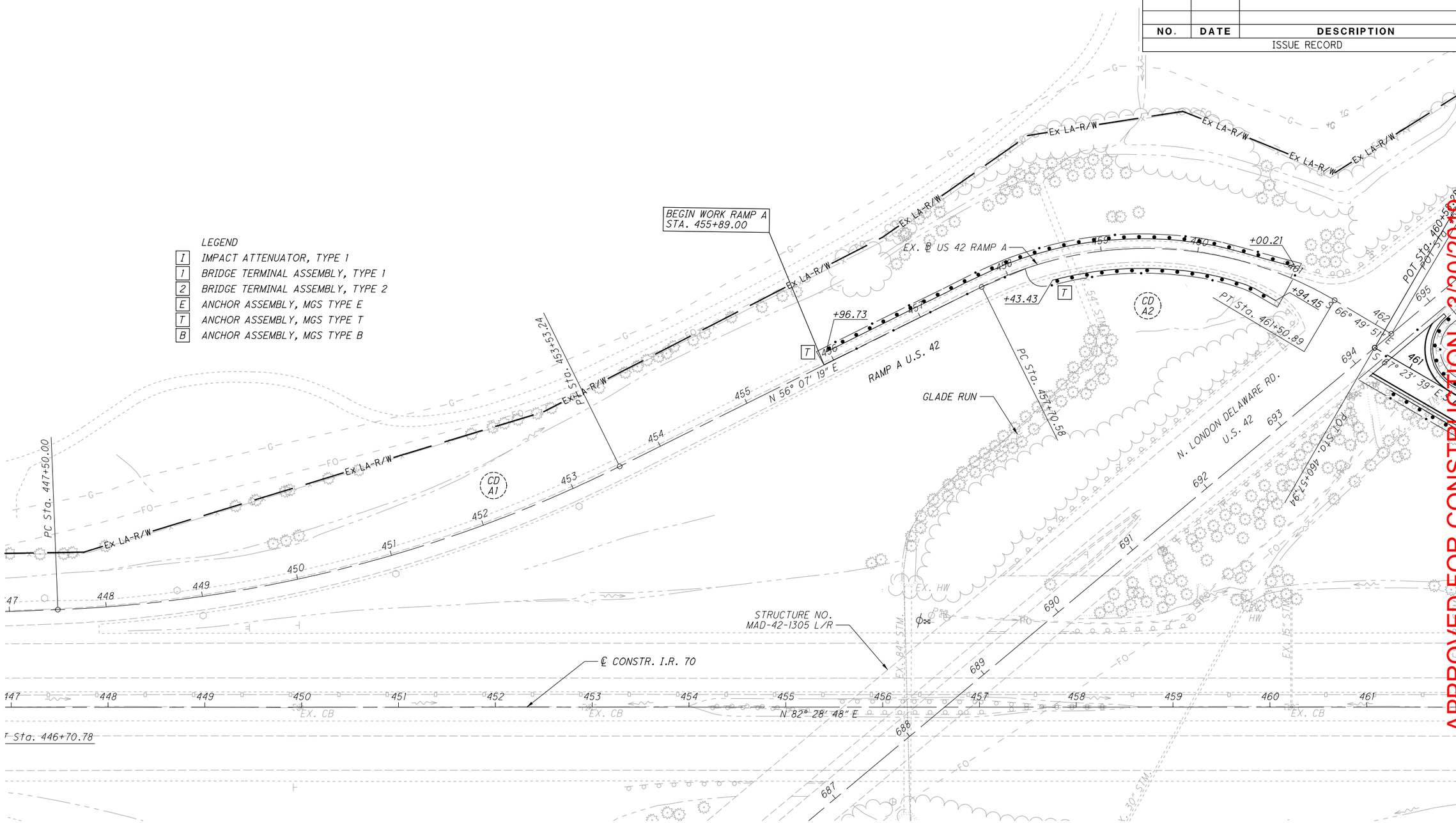
CROSS SECTIONS - IR 70
STA. 820+95.25 TO END WORK

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS001.dgn XS_SHEET_temporary_model_name_237 3/20/2019 9:50:37 AM mcornett

NO.	DATE	DESCRIPTION

ISSUE RECORD



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

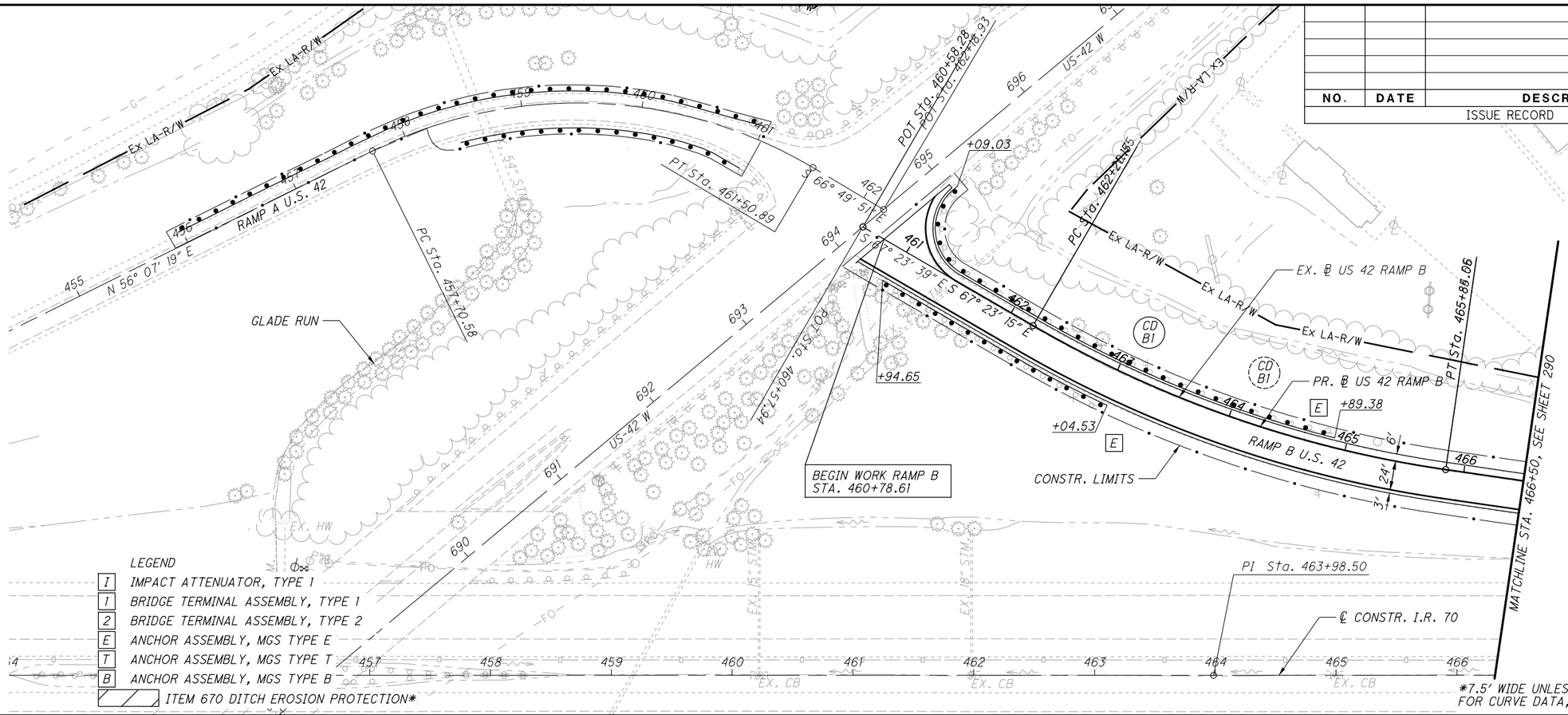
PLAN - U.S. 42 RAMP A
STA. 460+78.61 TO STA. 466+50.00

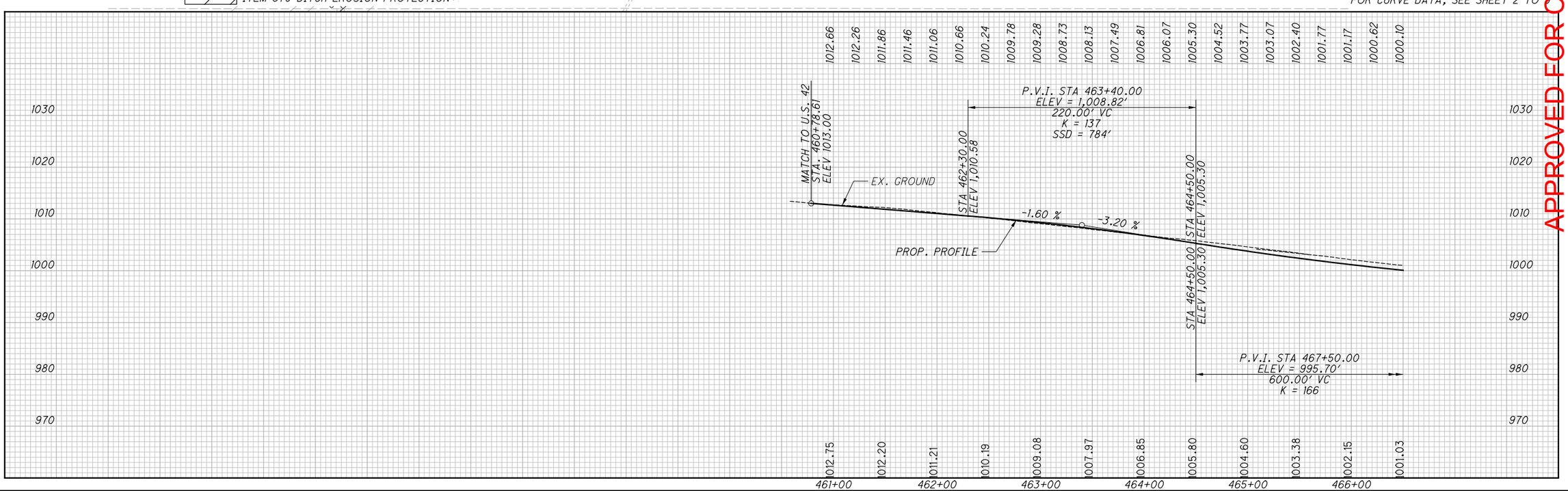
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP101.dgn Sheet 3/20/2019 9:50:41AM mcornett

NO.	DATE	DESCRIPTION

ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

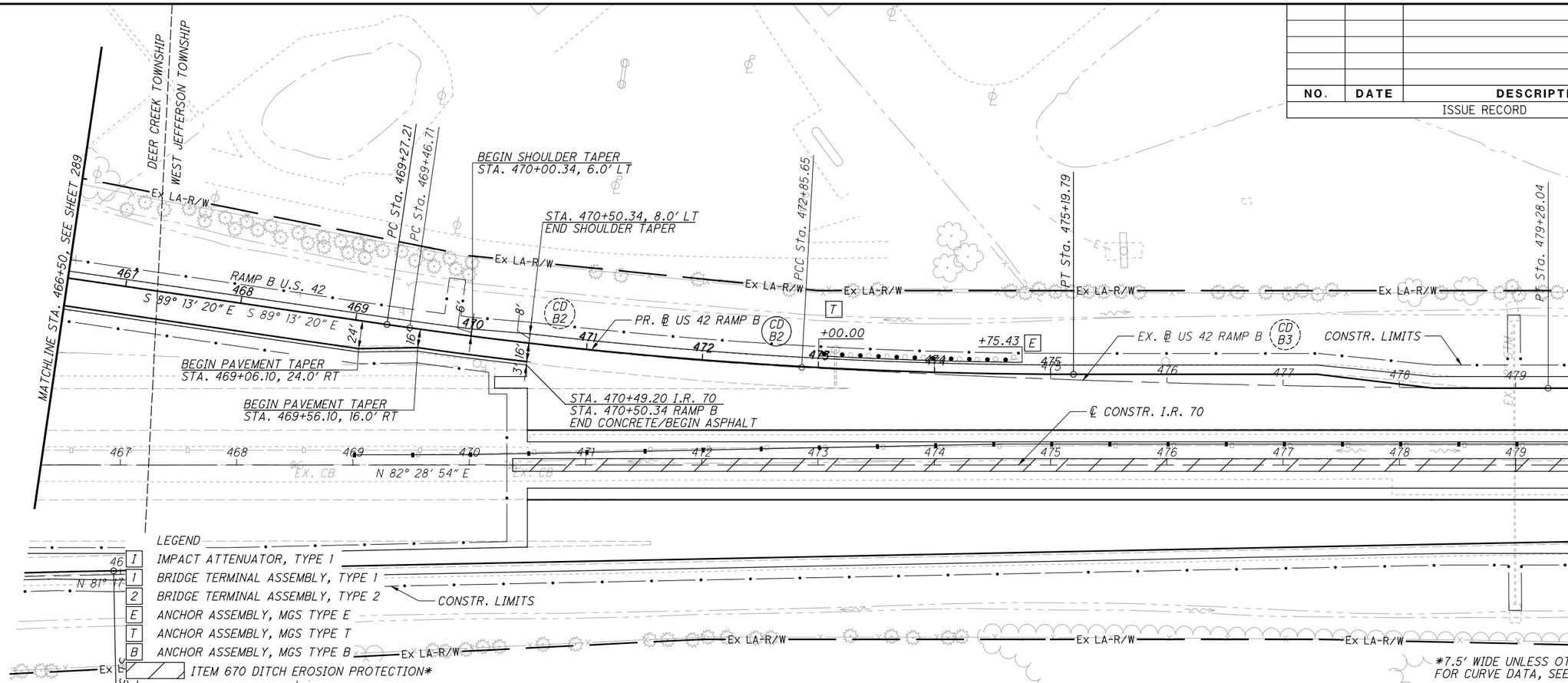
APPROVED FOR CONSTRUCTION - 3/20/2019

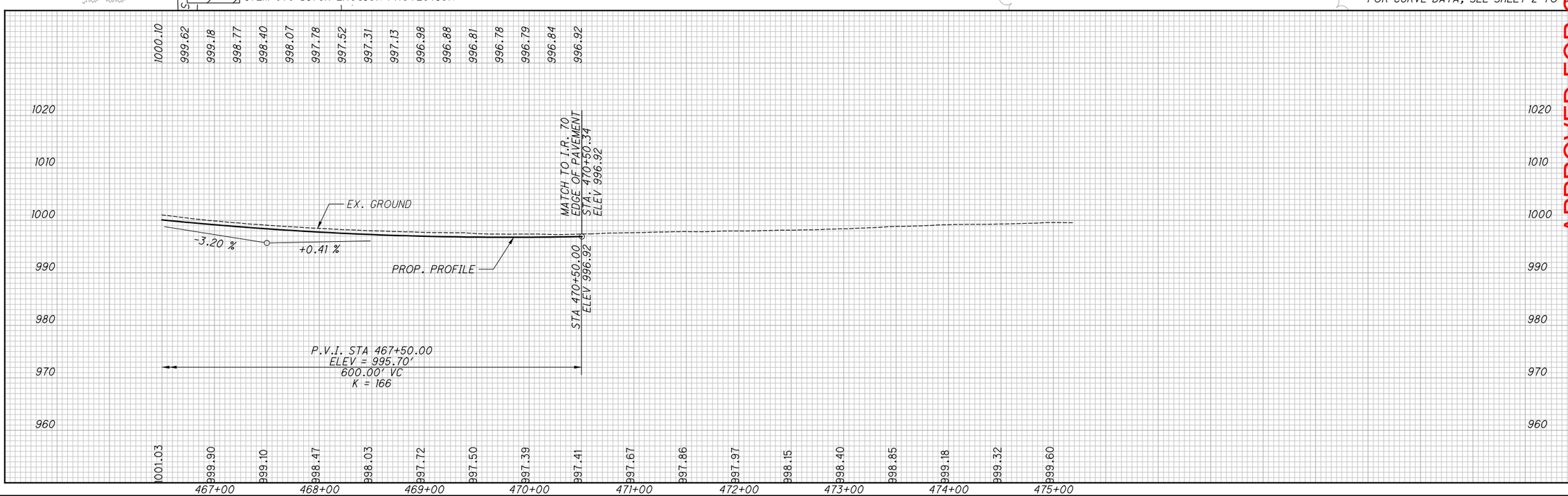
PLAN AND PROFILE - U.S. 42 RAMP B
STA. 460+78.61 TO STA. 466+50.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GPIII.dgn Sheet 3/20/2019 9:50:43 AM mcornett

NO.	DATE	DESCRIPTION
		ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE - U.S. 42 RAMP B
STA. 466+50.00 TO STA. 475+19.79

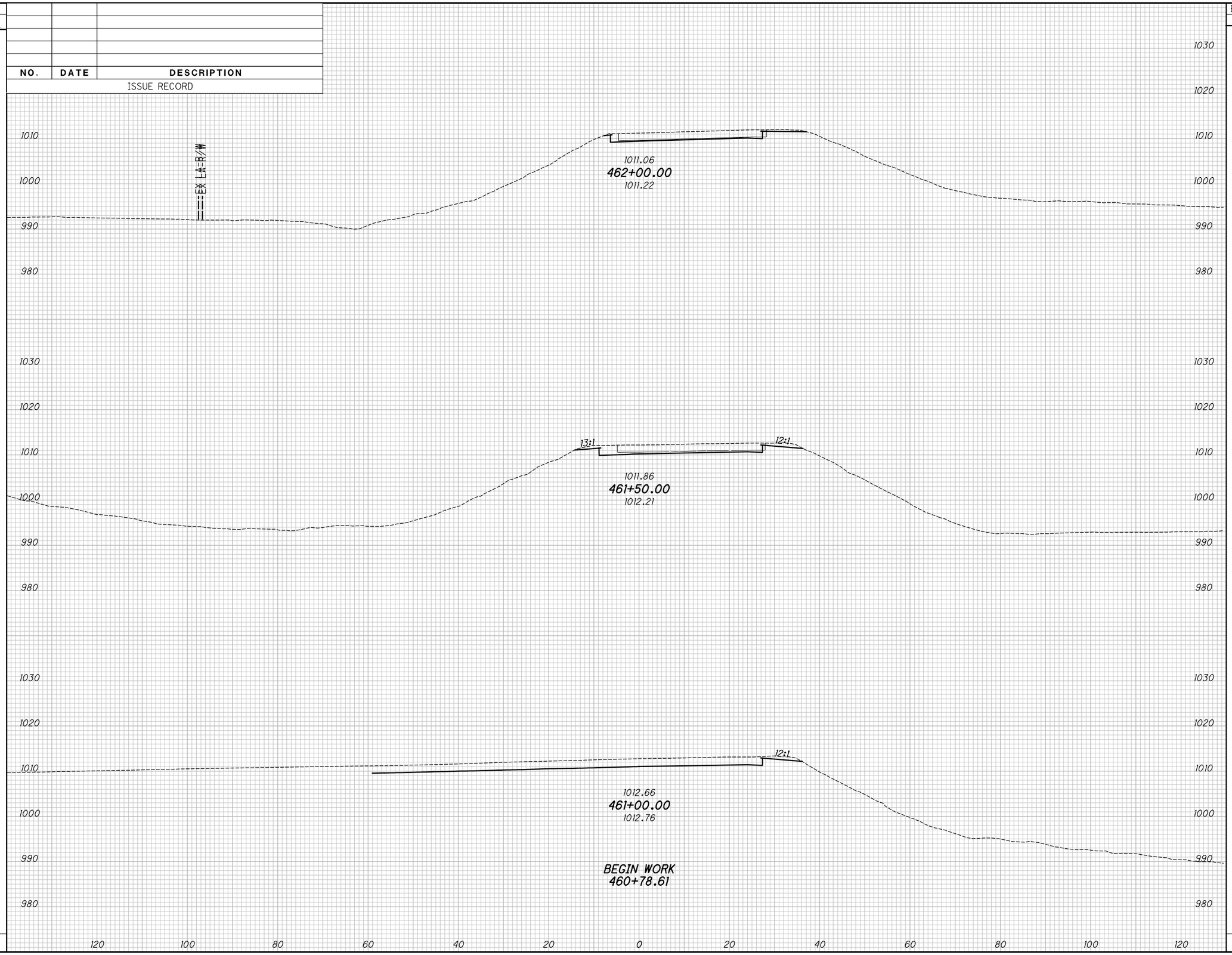
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GPI12.dgn Sheet 3/20/2019 9:50:44 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP B
BEGIN WORK TO STA. 462+00.00

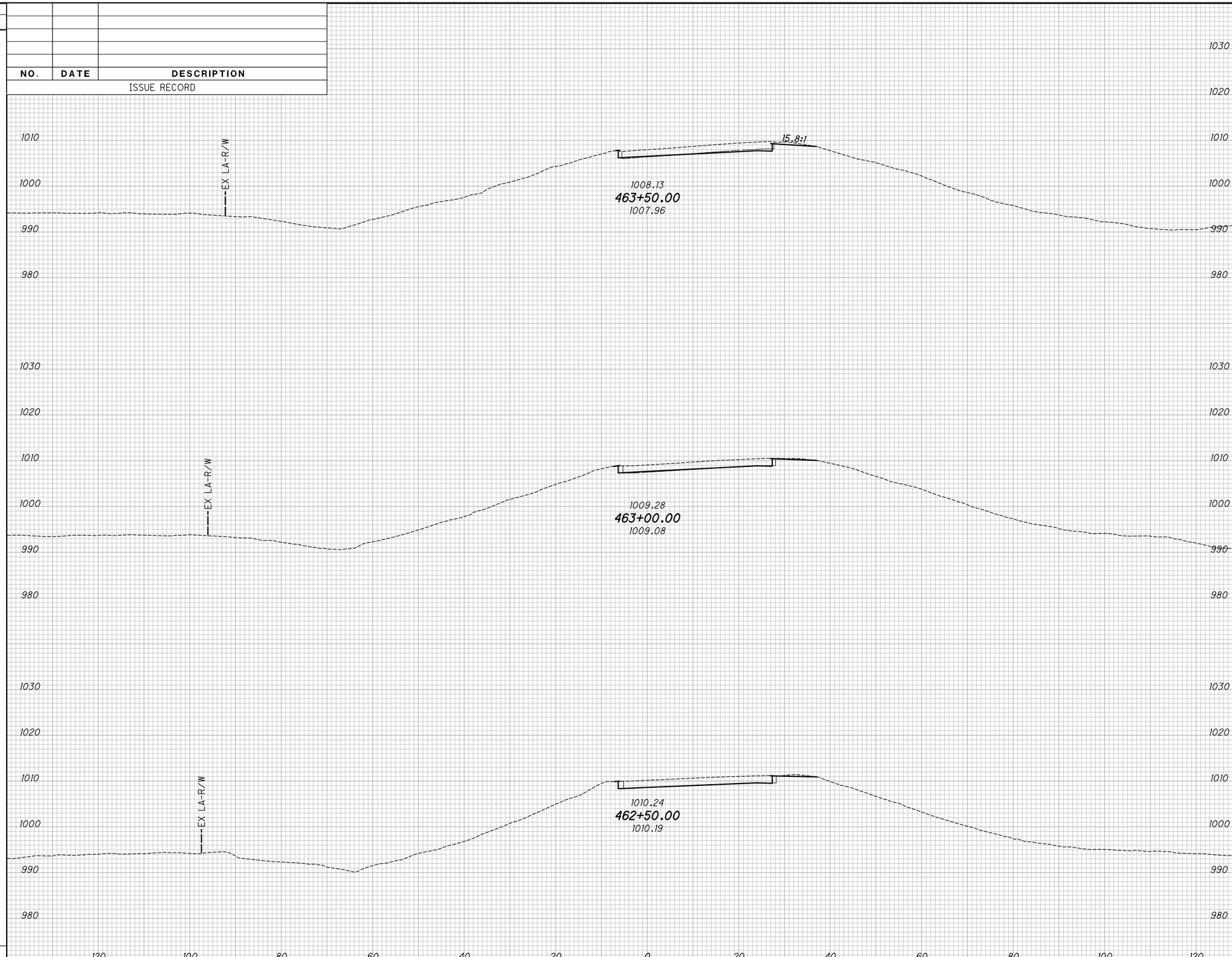
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XSIII.dgn XS_SHEET_temporary_model_name_I 3/20/2019 9:50:45 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP B
STA. 462+50.00 TO STA. 463+50.00

MAD-70-8.62

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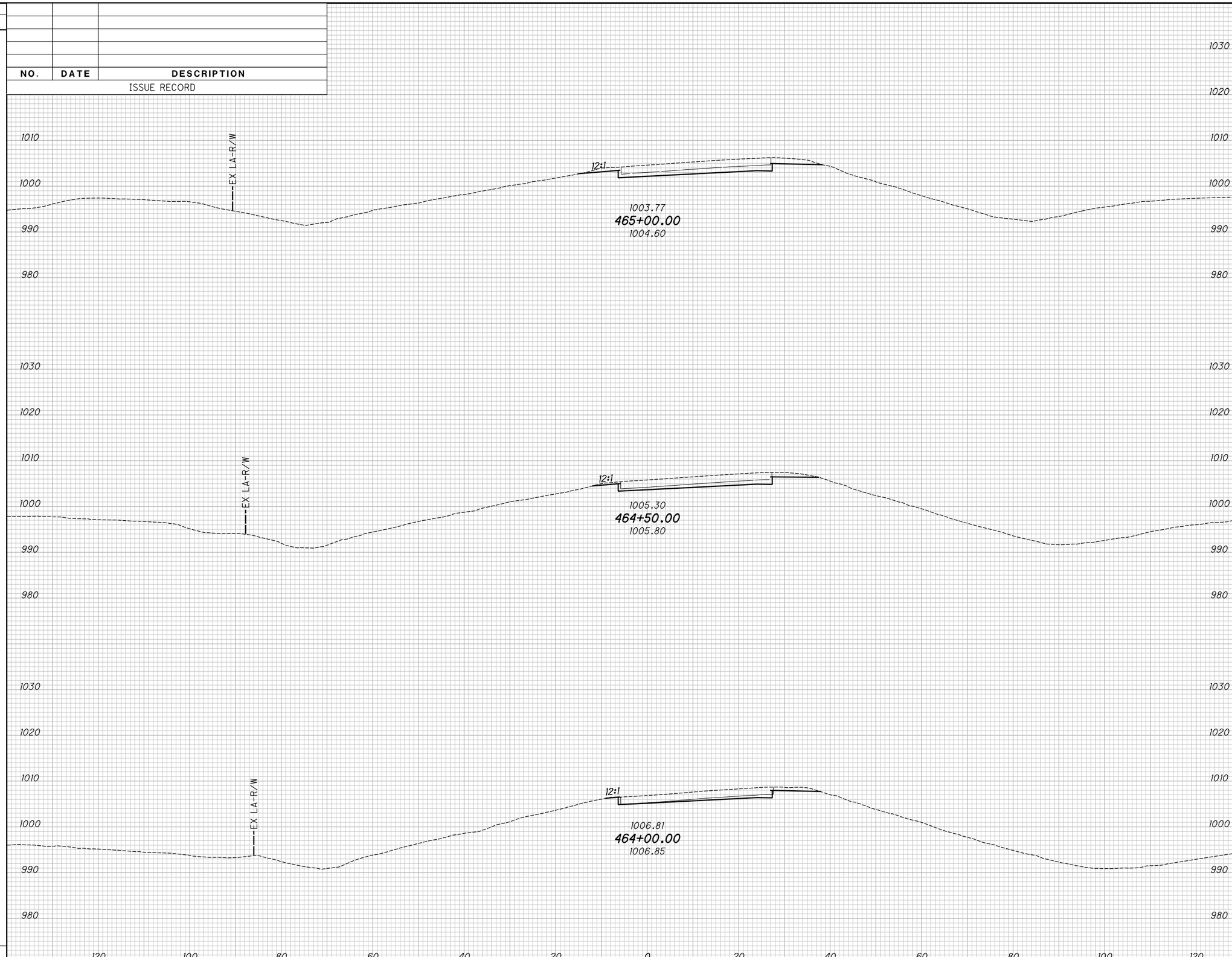
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP B
STA. 464+00.00 TO STA. 465+00.00

MAD-70-8.62

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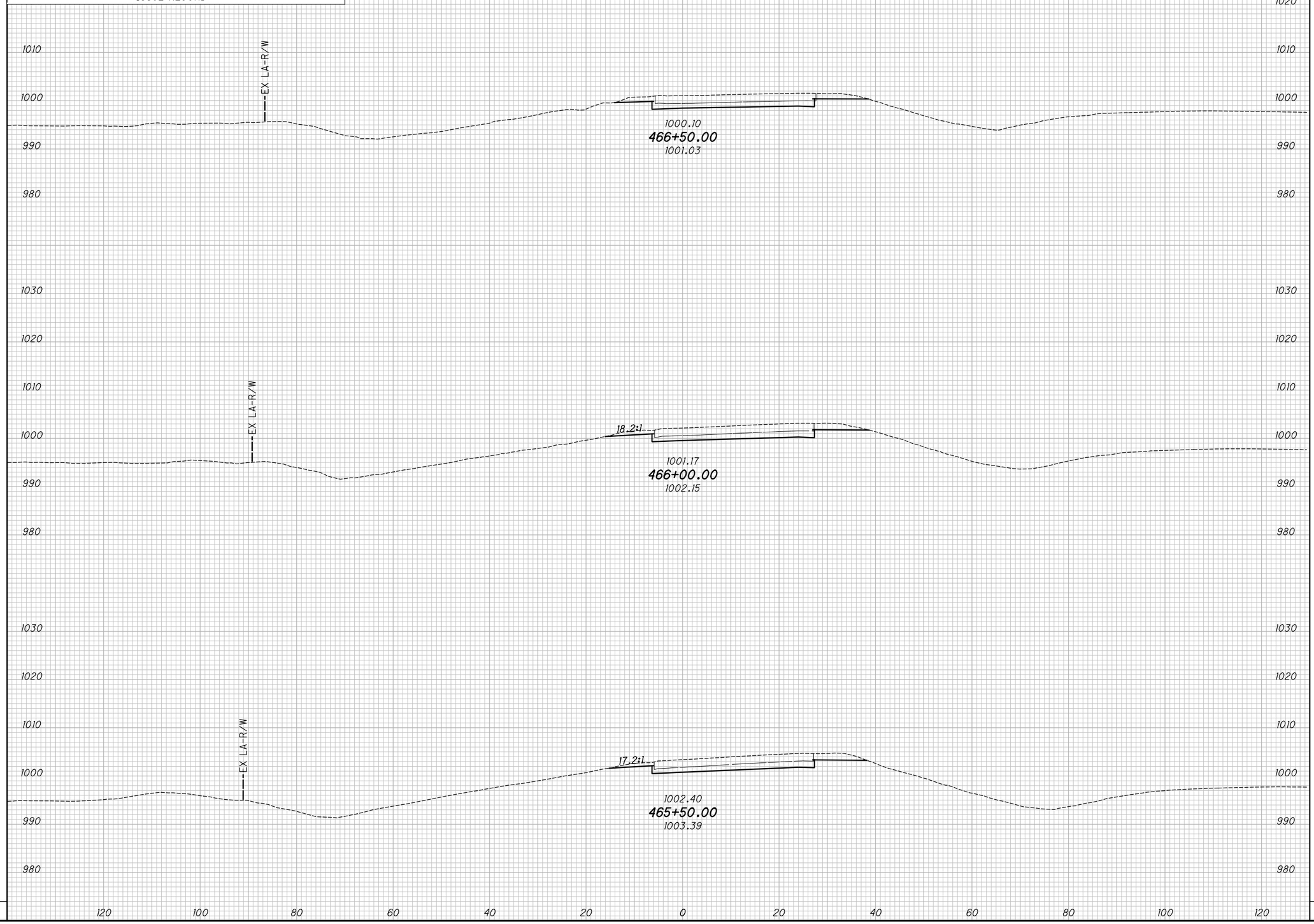
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP B
STA. 465+50.00 TO STA. 466+50.00

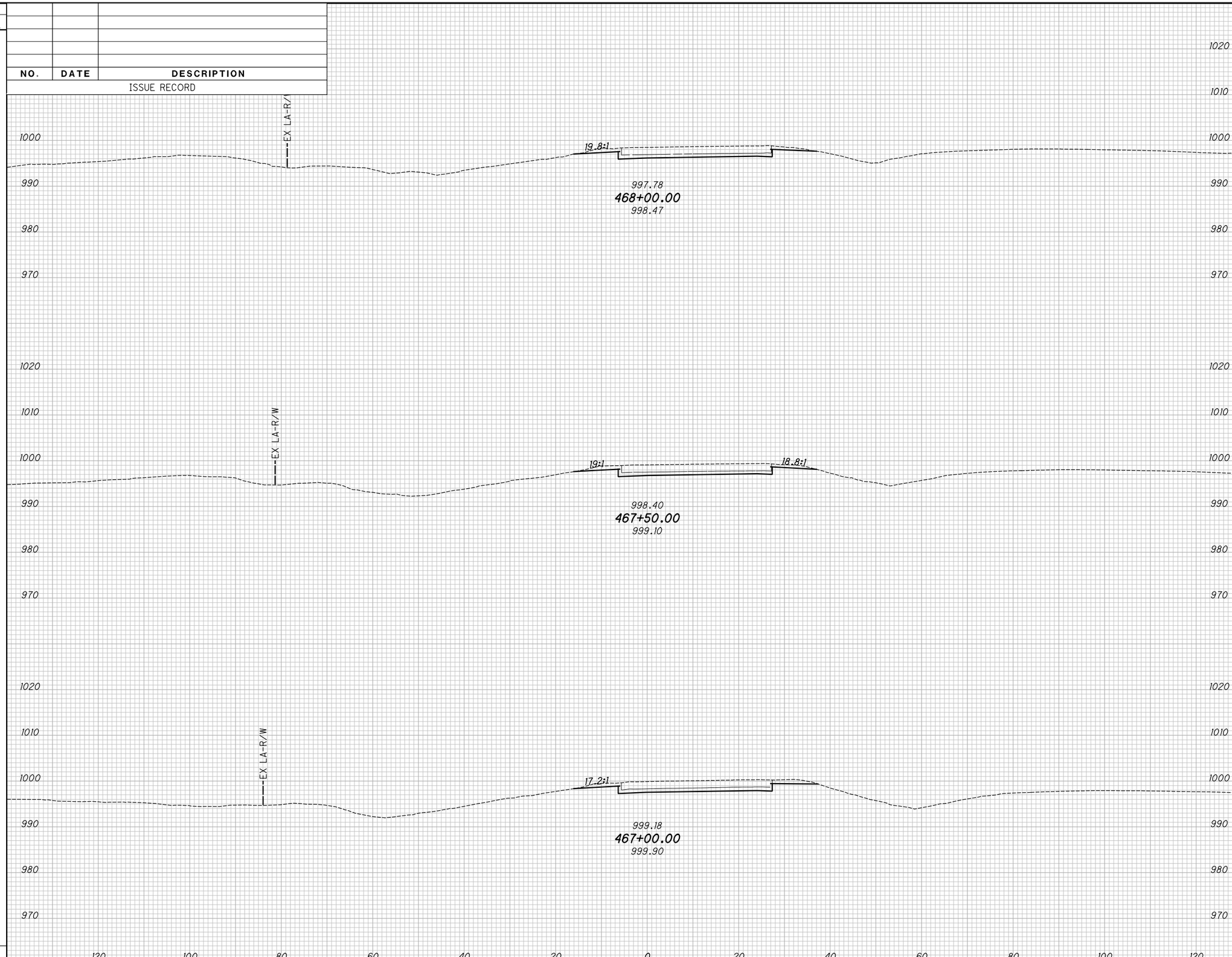
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XSIII.dgn XS_SHEET_temporary_model_name_4 3/20/2019 9:50:46 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

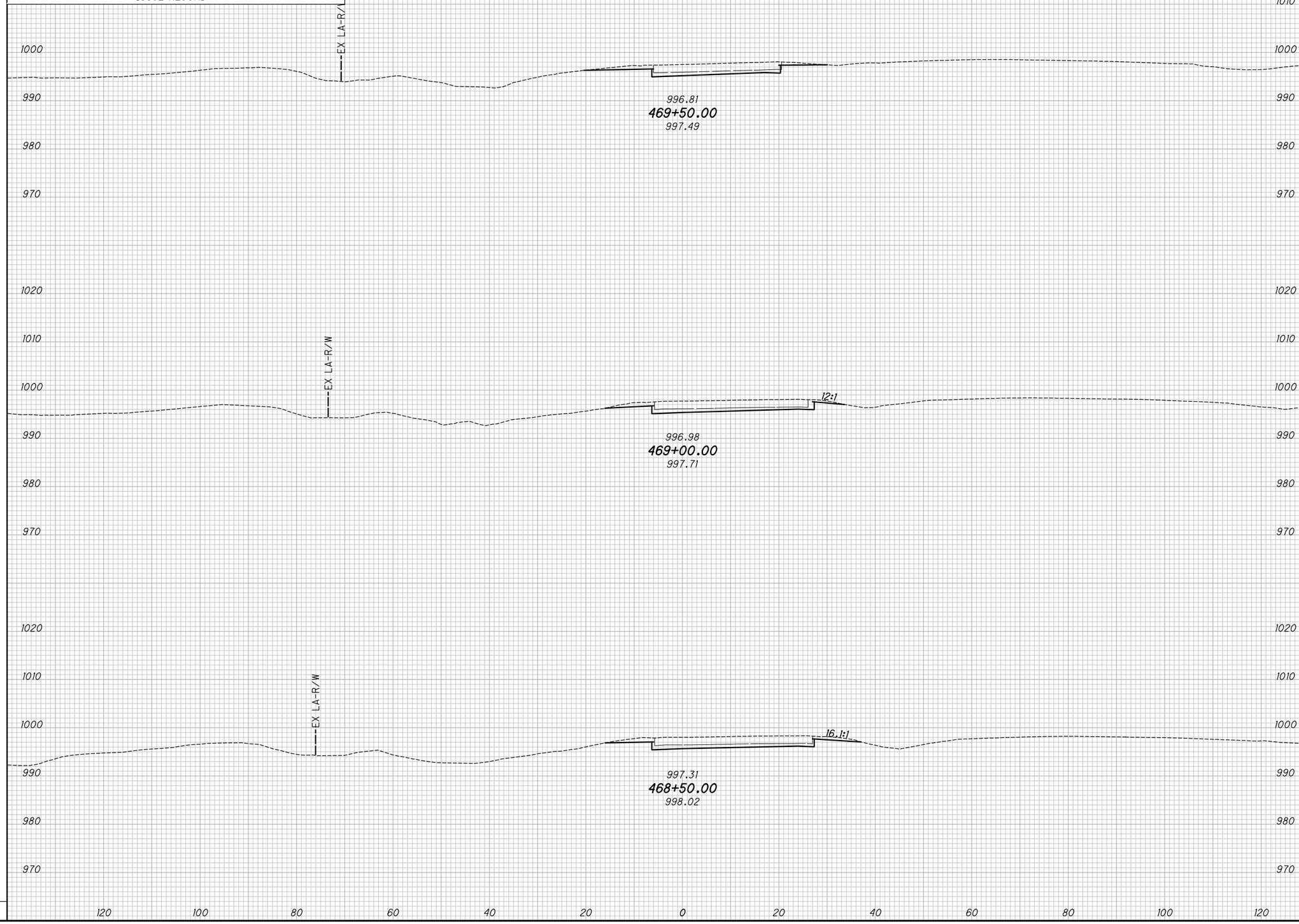
CROSS SECTIONS - U.S. 42 RAMP B
STA. 467+00.00 TO STA. 468+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XSIII.dgn XS_SHEET_temporary_model_name_5 3/20/2019 9:50:47 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP B
STA. 468+50.00 TO STA. 469+50.00

MAD-70-8.62

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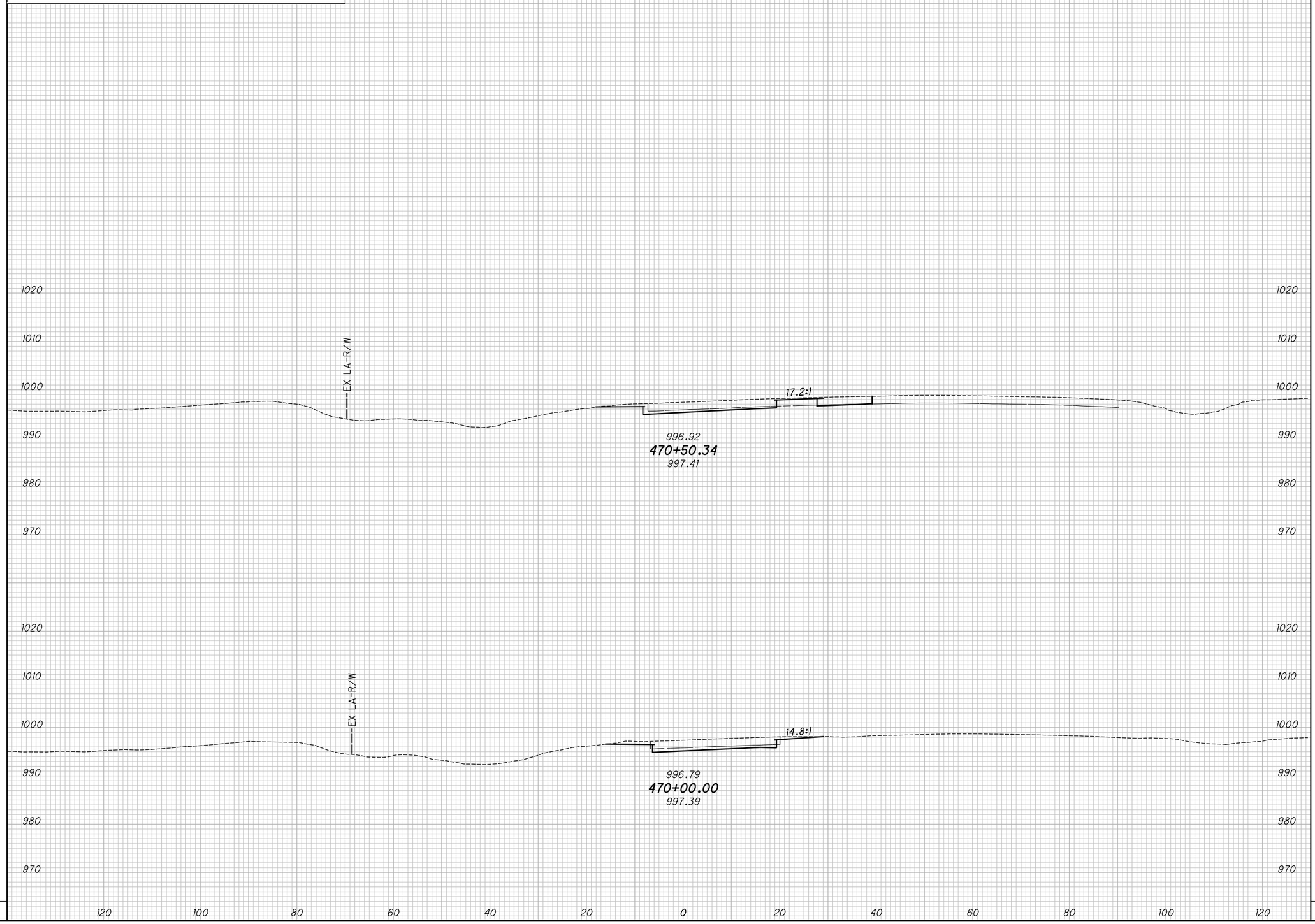
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP B
STA. 470+00.00 TO STA. 470+50.34

MAD-70-8.62

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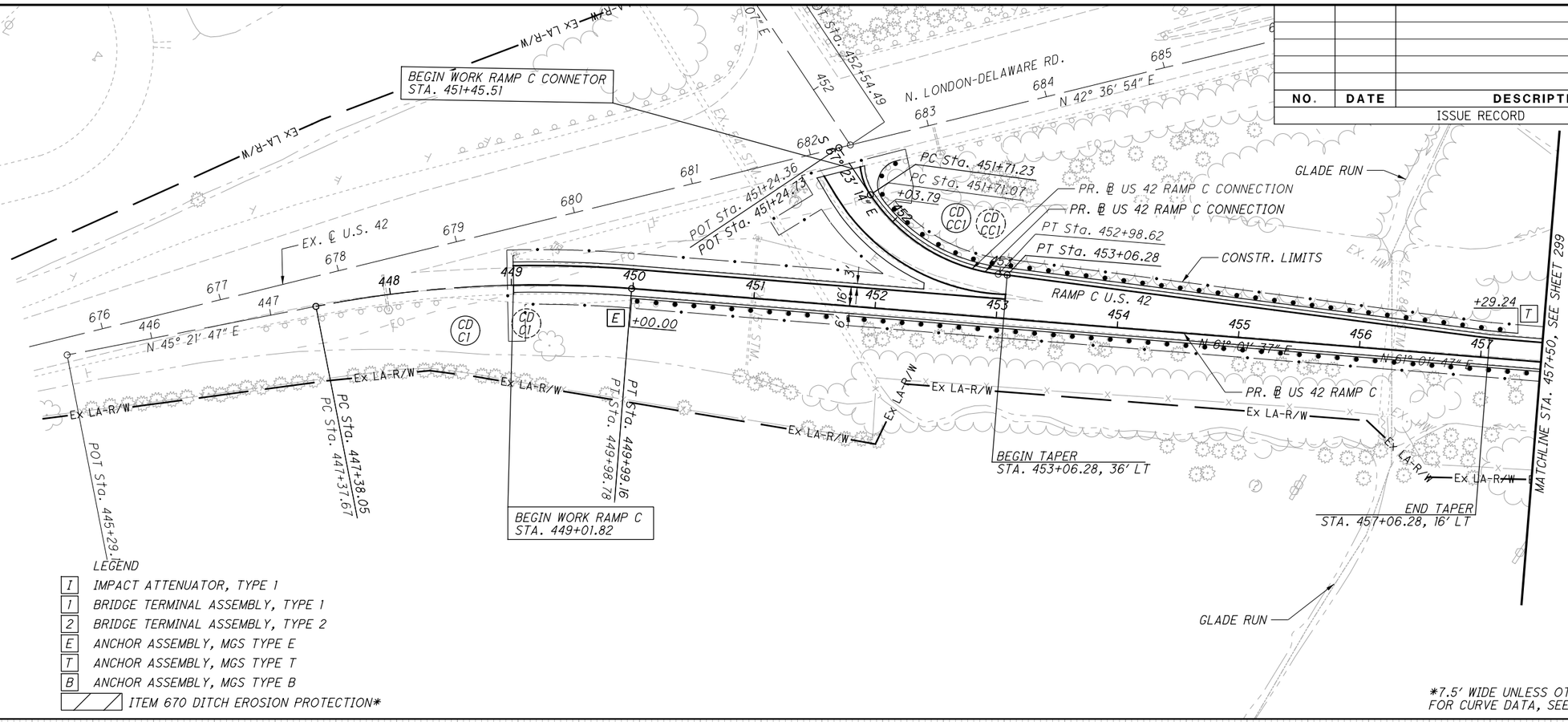
NO.	DATE	DESCRIPTION

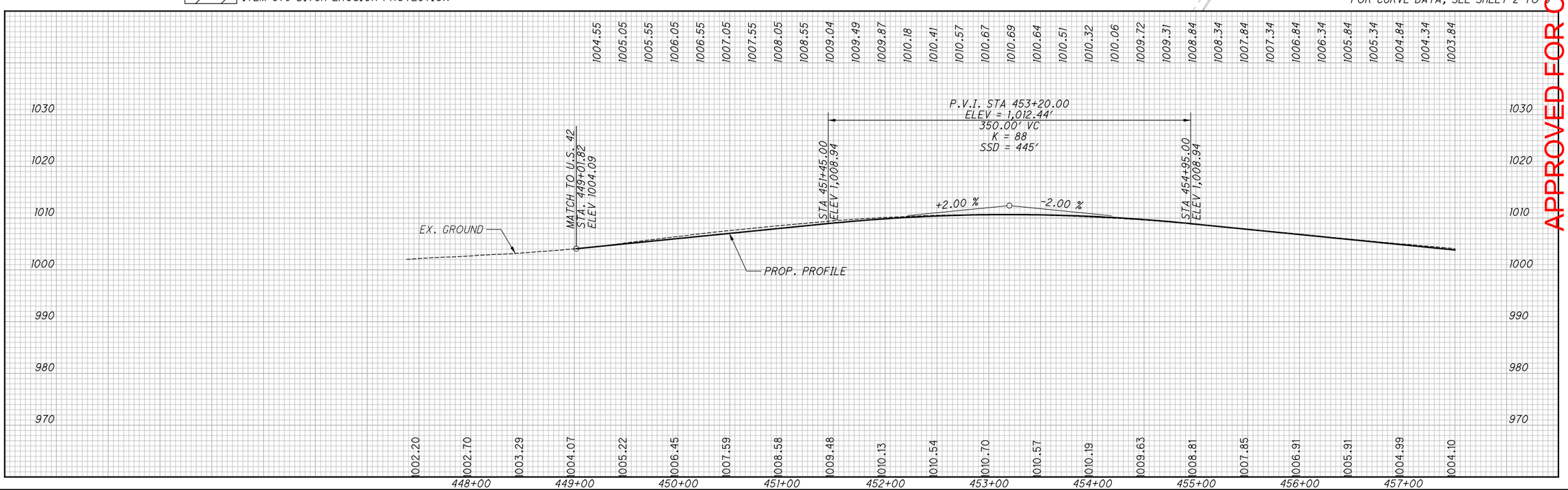
ISSUE RECORD



LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE - U.S. 42 RAMP C
STA. 499+01.82 TO STA. 457+50.00

MAD-70-8.62

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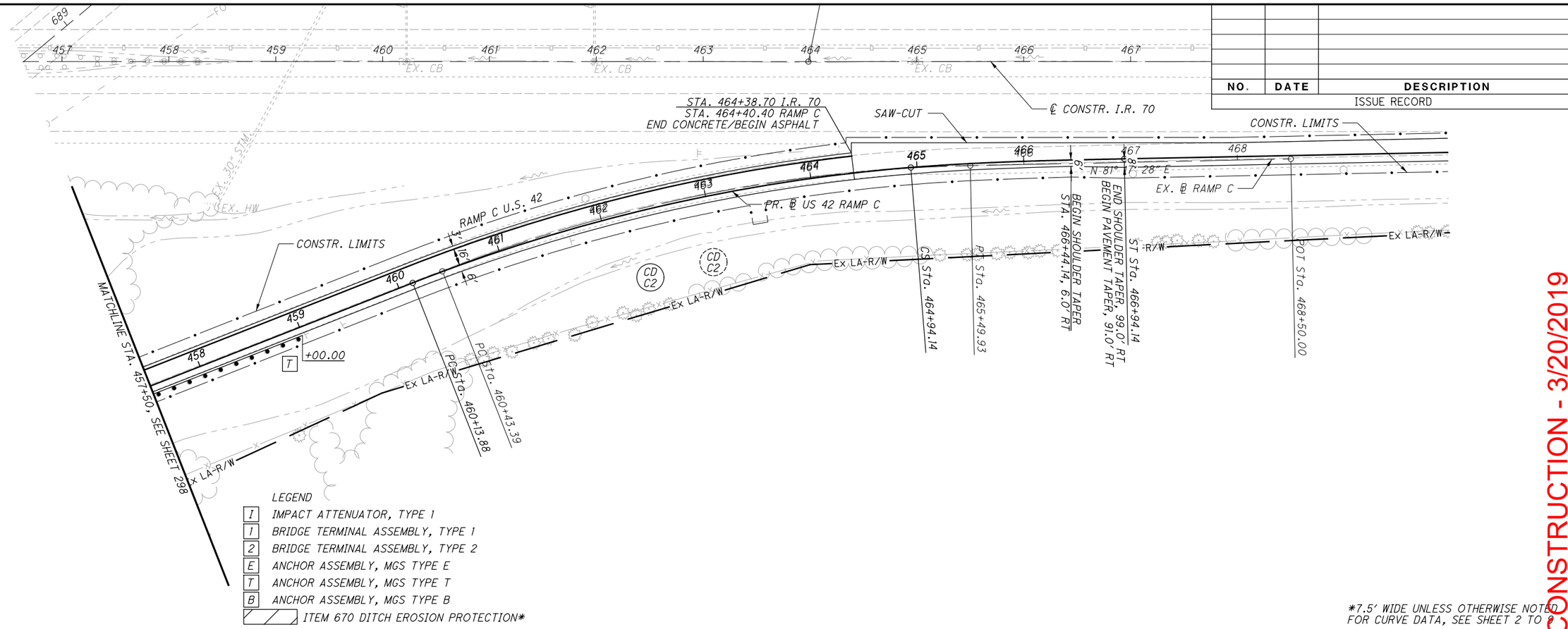
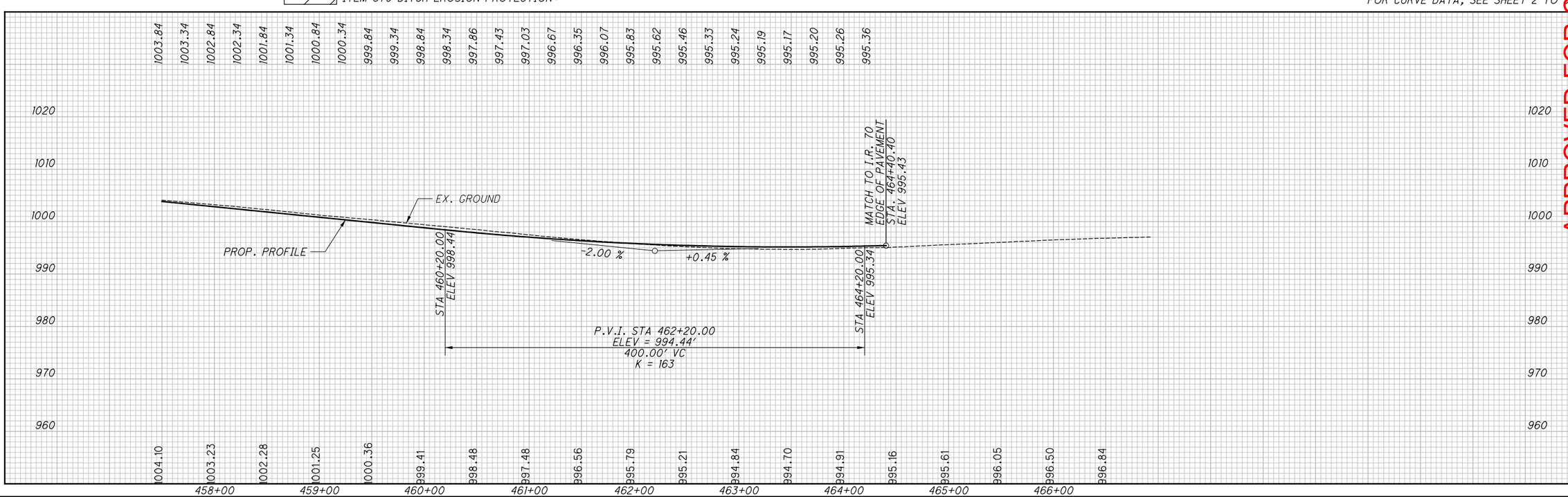


LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 8



NO.	DATE	DESCRIPTION
		ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE - U.S. 42 RAMP C
STA. 457+50.00 TO STA. 466+94.14

MAD-70-8.62

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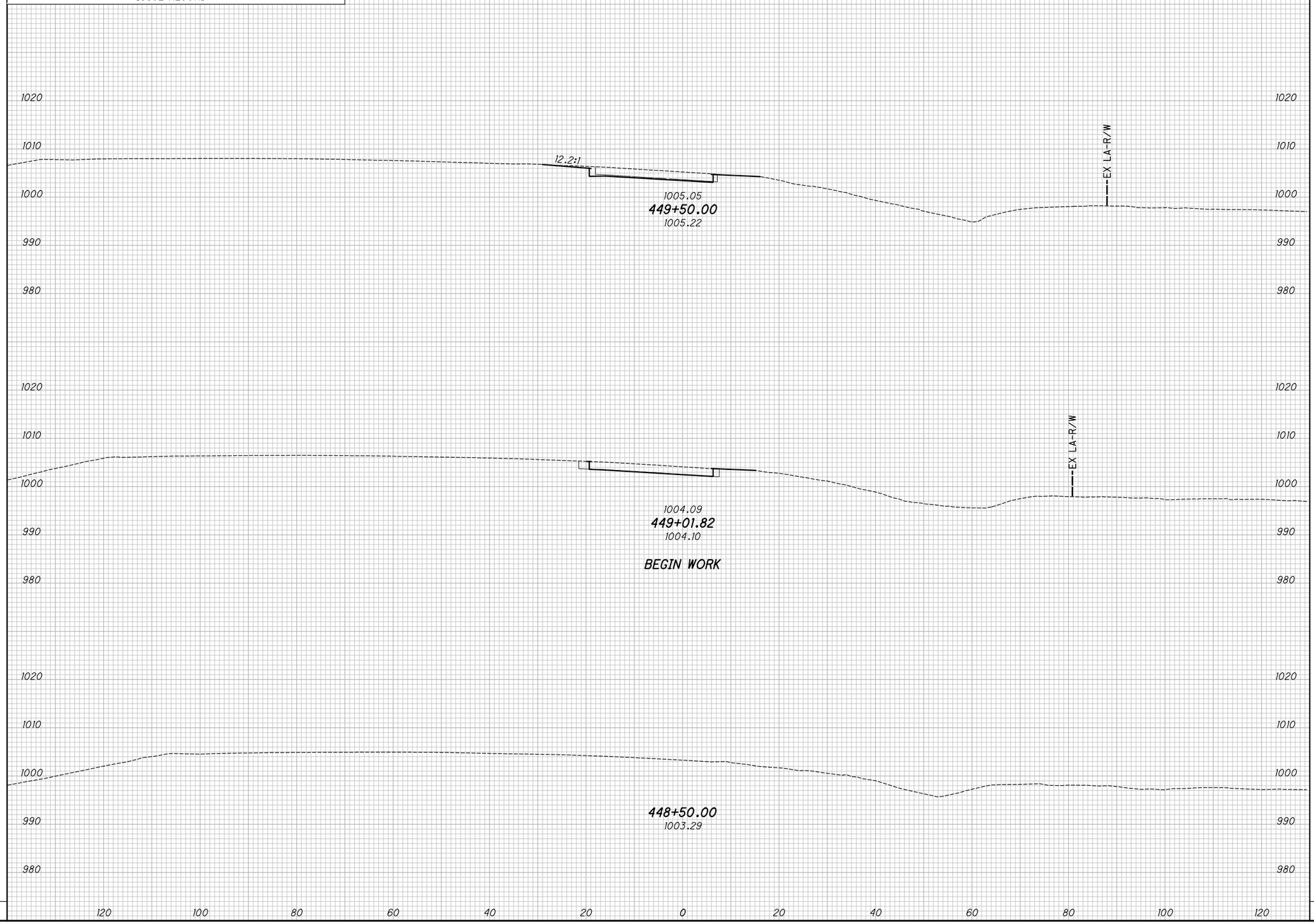
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
BEGIN WORK TO STA. 449+50.00

MAD-70-8.62

300
470

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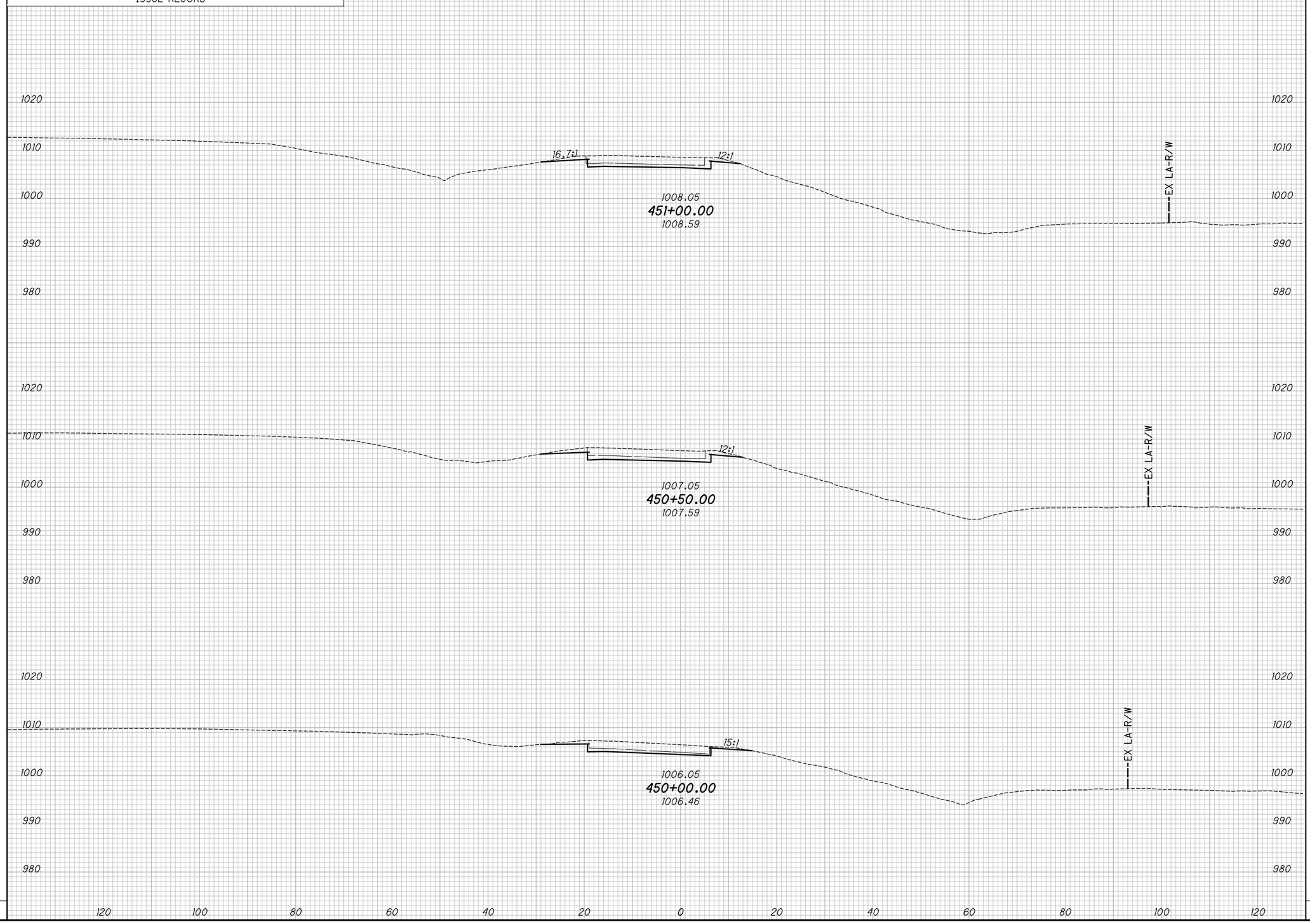
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 450+00.00 TO STA. 451+00.00

MAD-70-8.62

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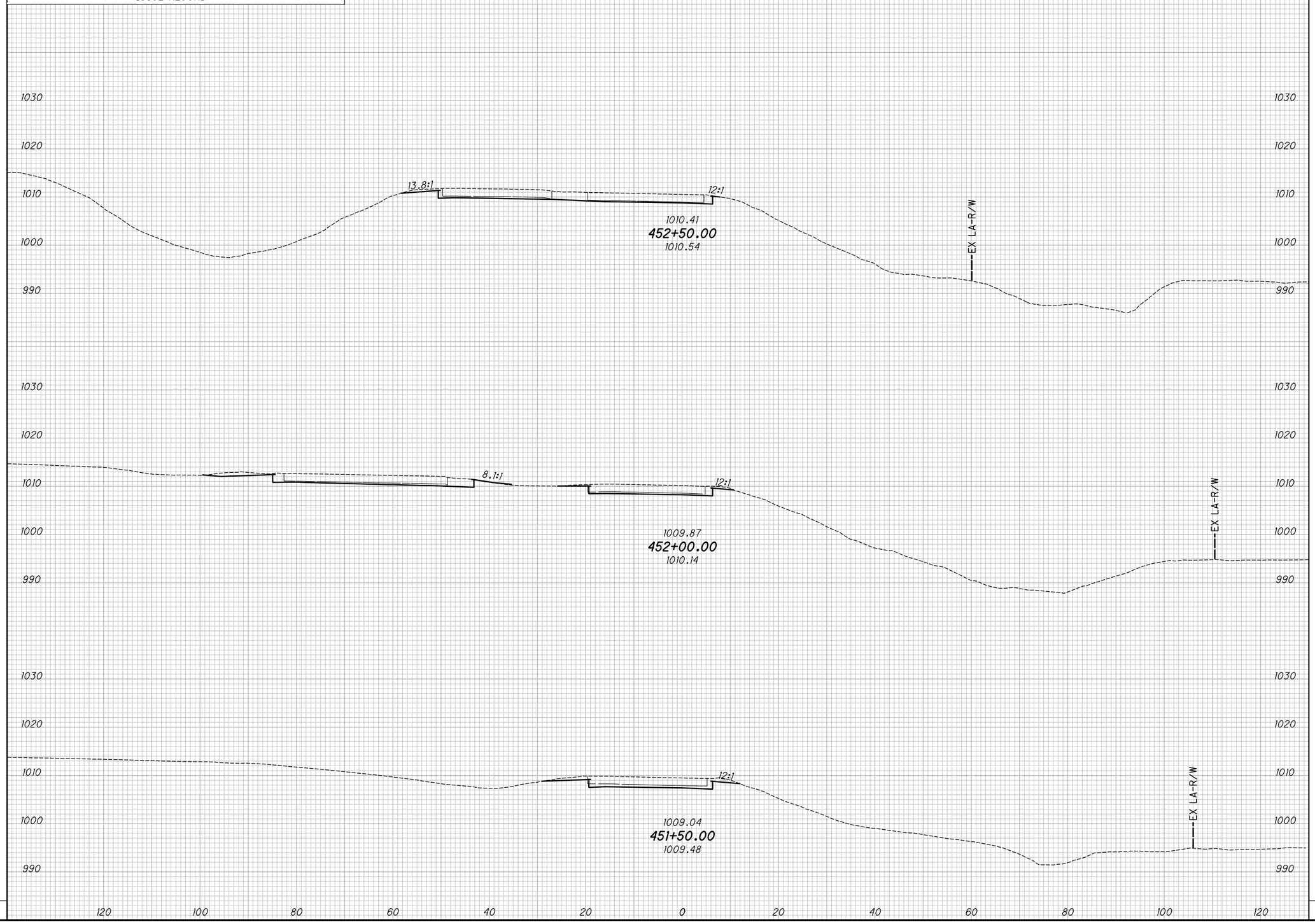
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 451+50.00 TO STA. 452+50.00

MAD-70-8.62

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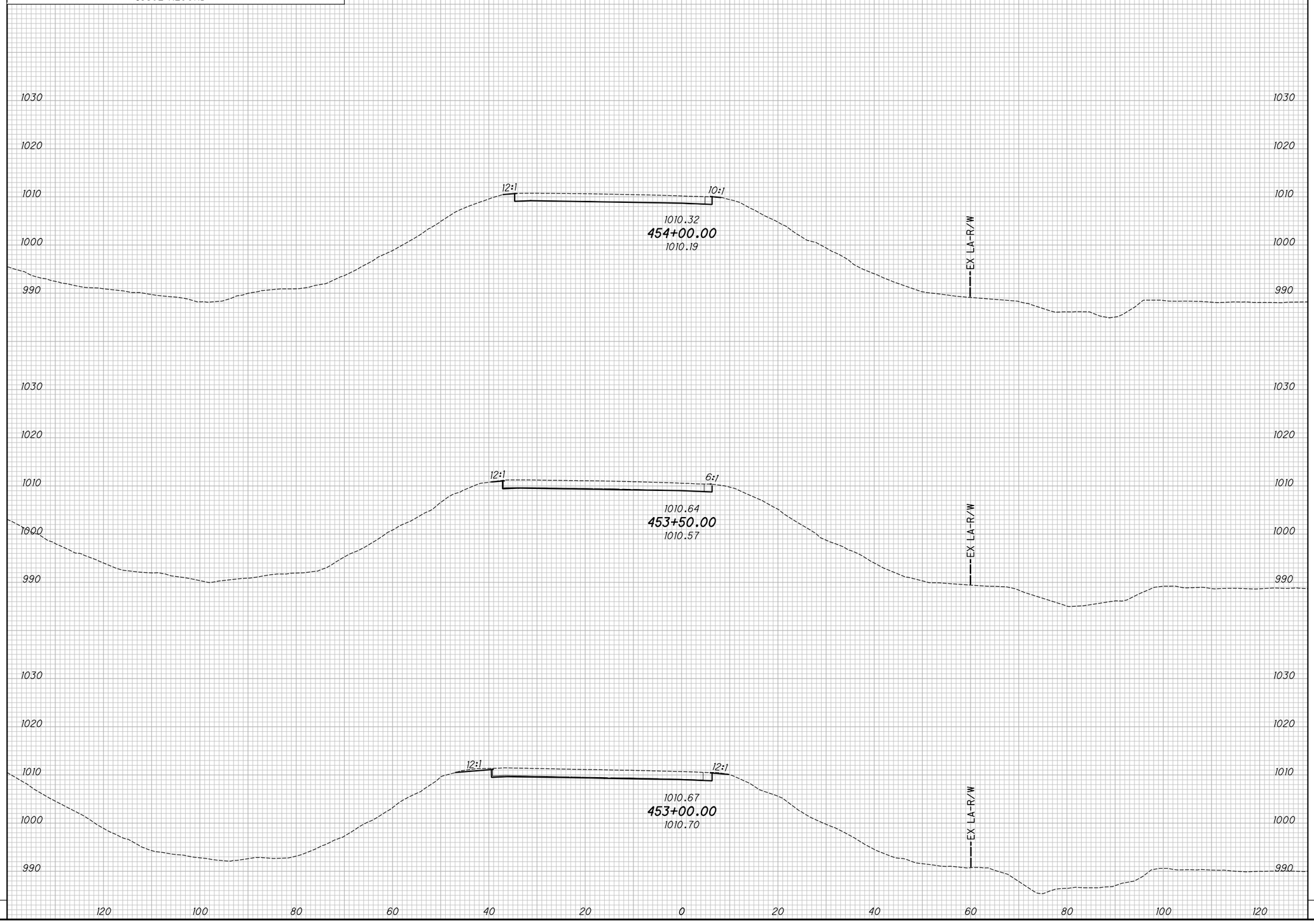
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 453+00.00 TO STA. 454+00.00

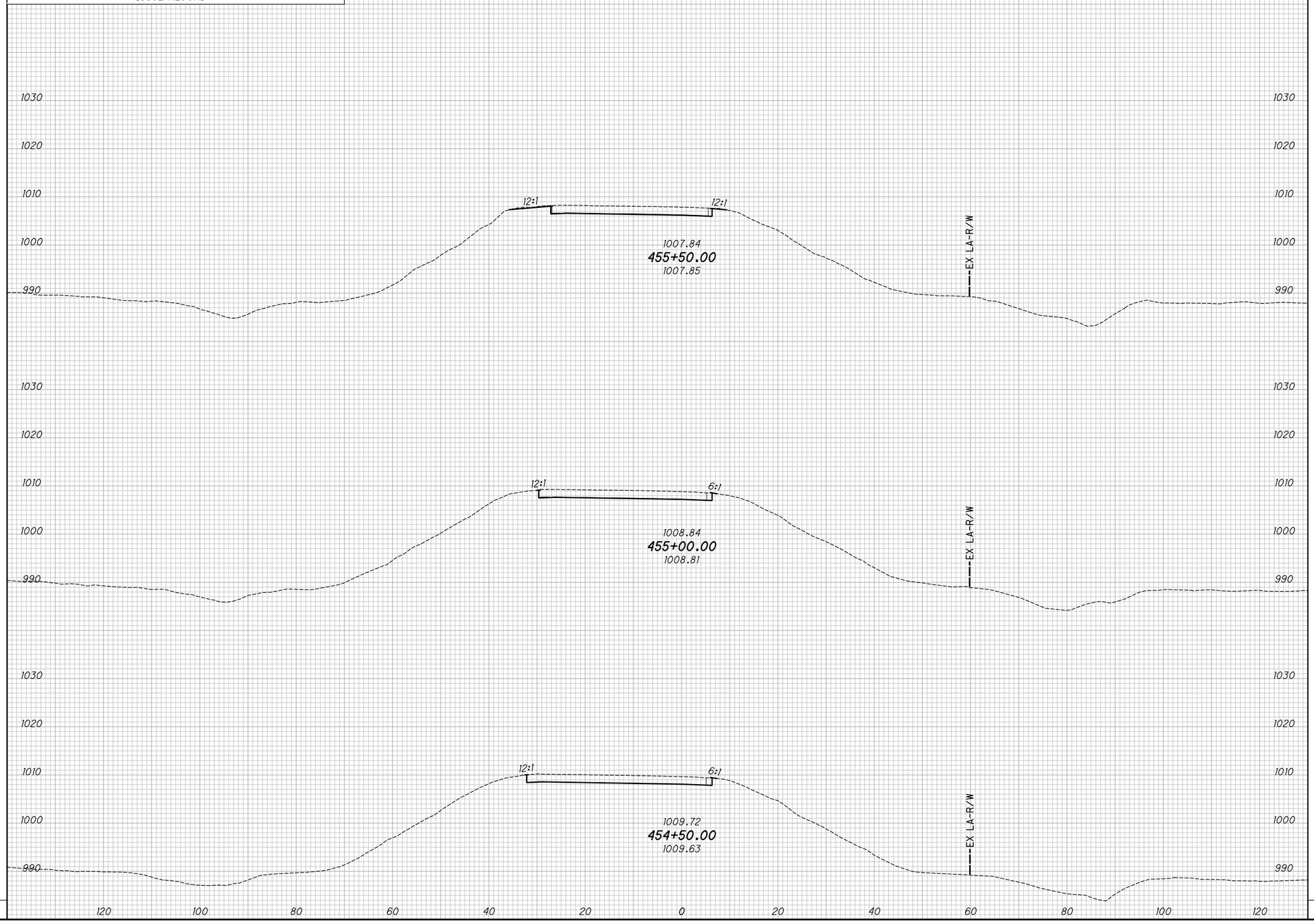
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS12L.dgn XS_SHEET_temporary_model_name_4 3/20/2019 9:50:59 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 454+50.00 TO STA. 455+50.00

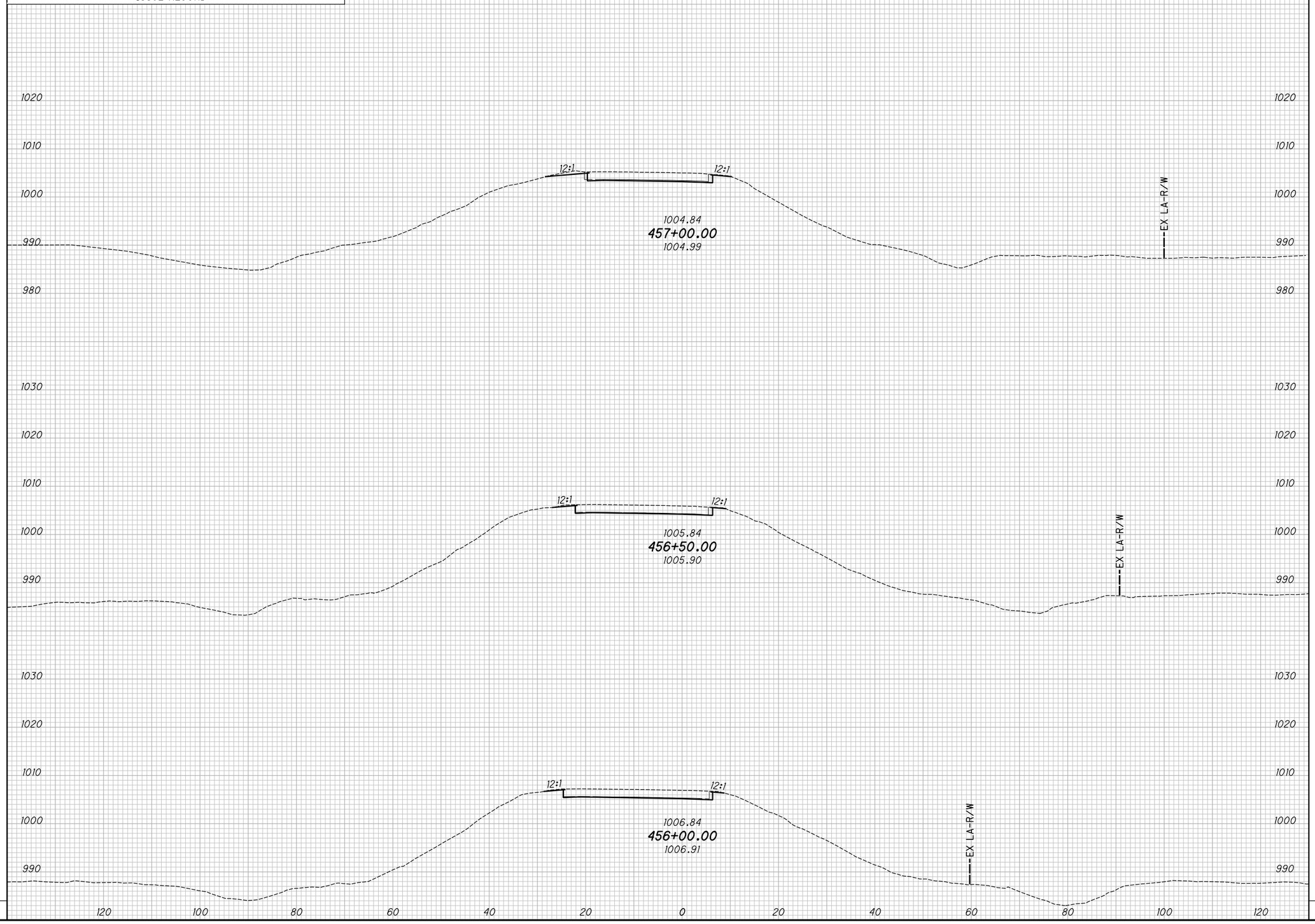
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS12L.dgn XS_SHEET_temporary_model_name_5 3/20/2019 9:50:59 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 456+00.00 TO STA. 457+00.00

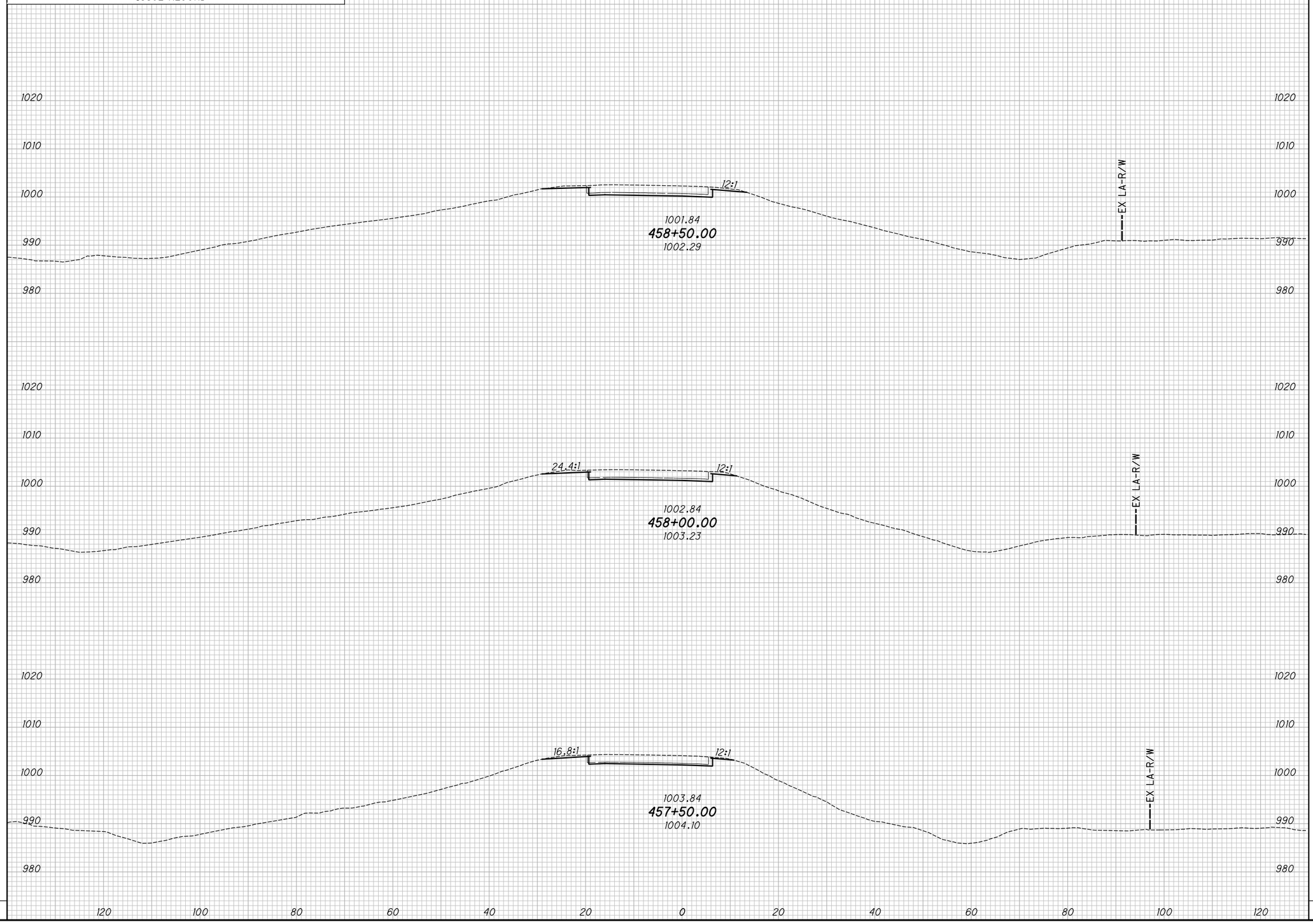
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS12L.dgn XS_SHEET_temporary_model_name_6 3/20/2019 9:51:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 457+50.00 TO STA. 458+50.00

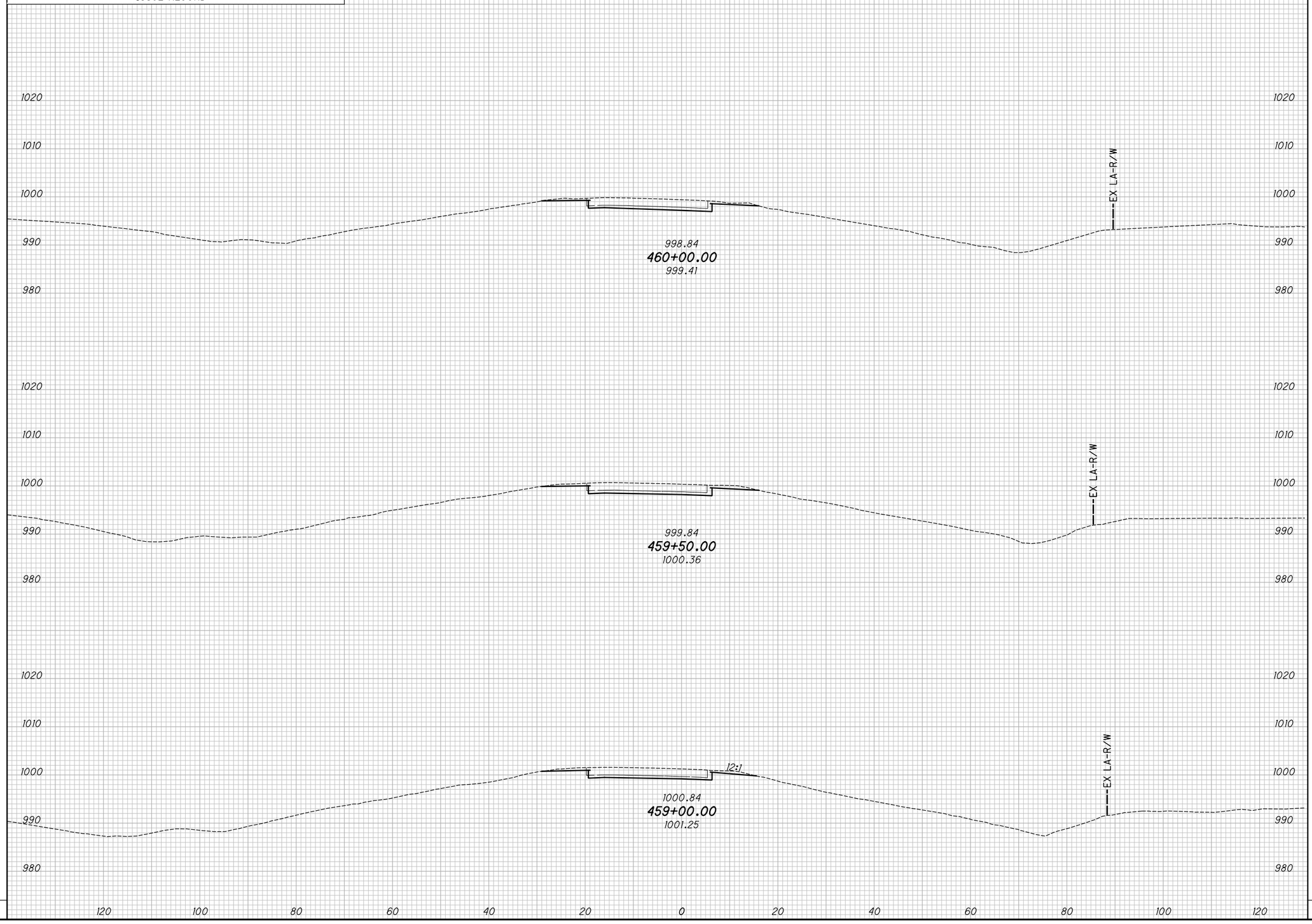
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS12L.dgn XS_SHEET_temporary_model_name_7 3/20/2019 9:51:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 459+00.00 TO STA. 460+00.00

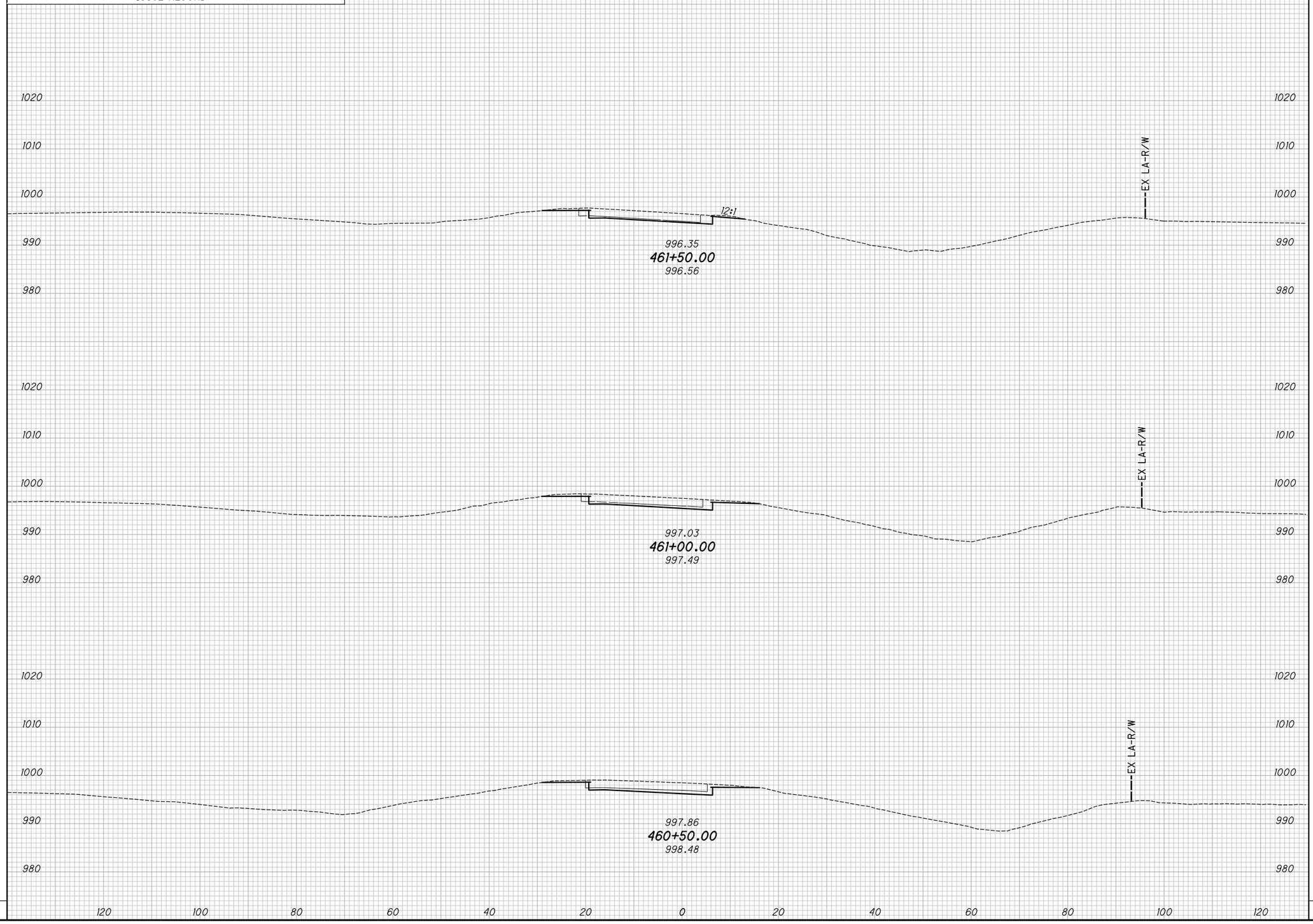
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS12L.dgn XS_SHEET_temporary_model_name_8 3/20/2019 9:51:00 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 460+50.00 TO STA. 461+50.00

MAD-70-8.62

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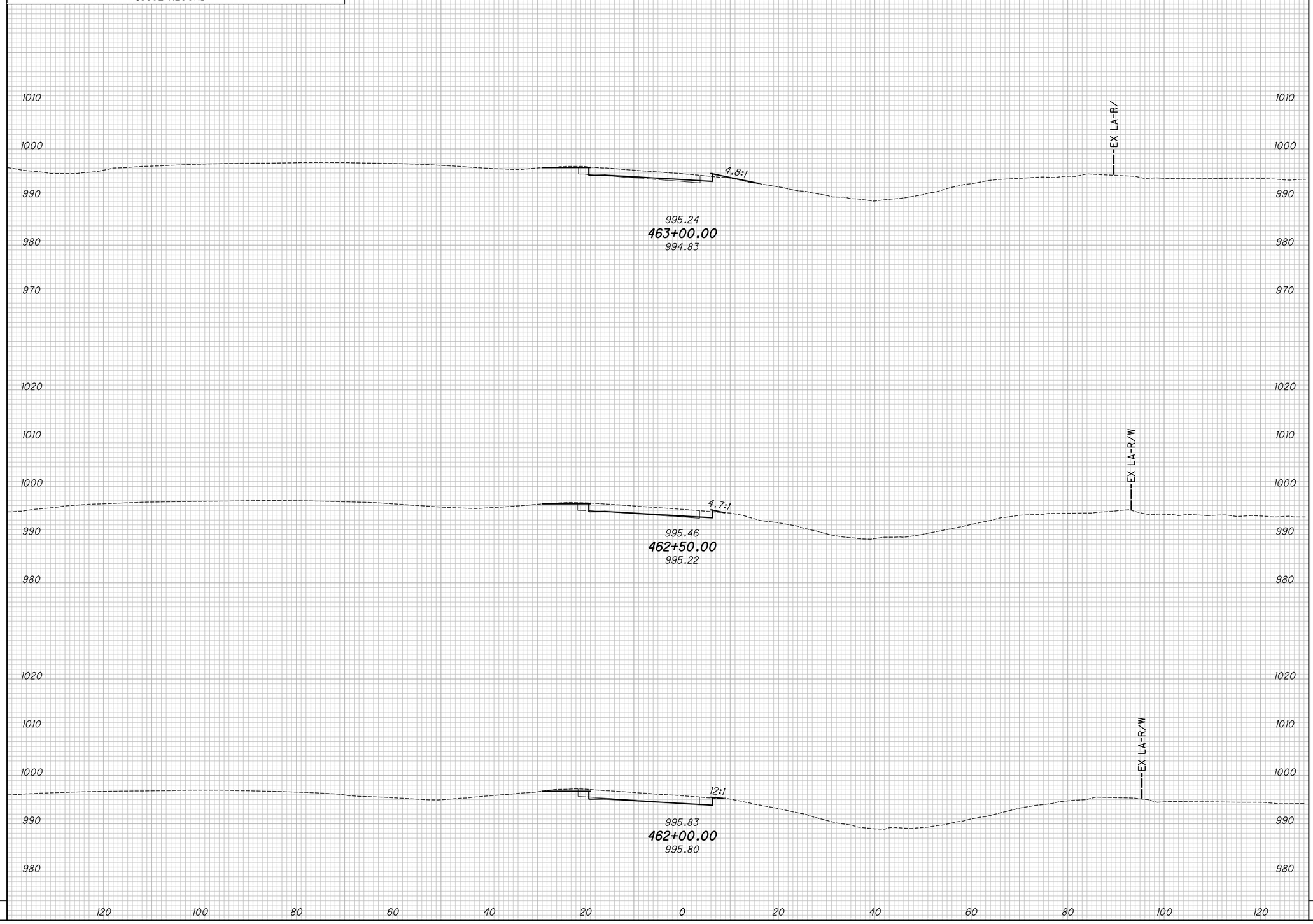
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - U.S. 42 RAMP C
STA. 462+00.00 TO STA. 463+00.00

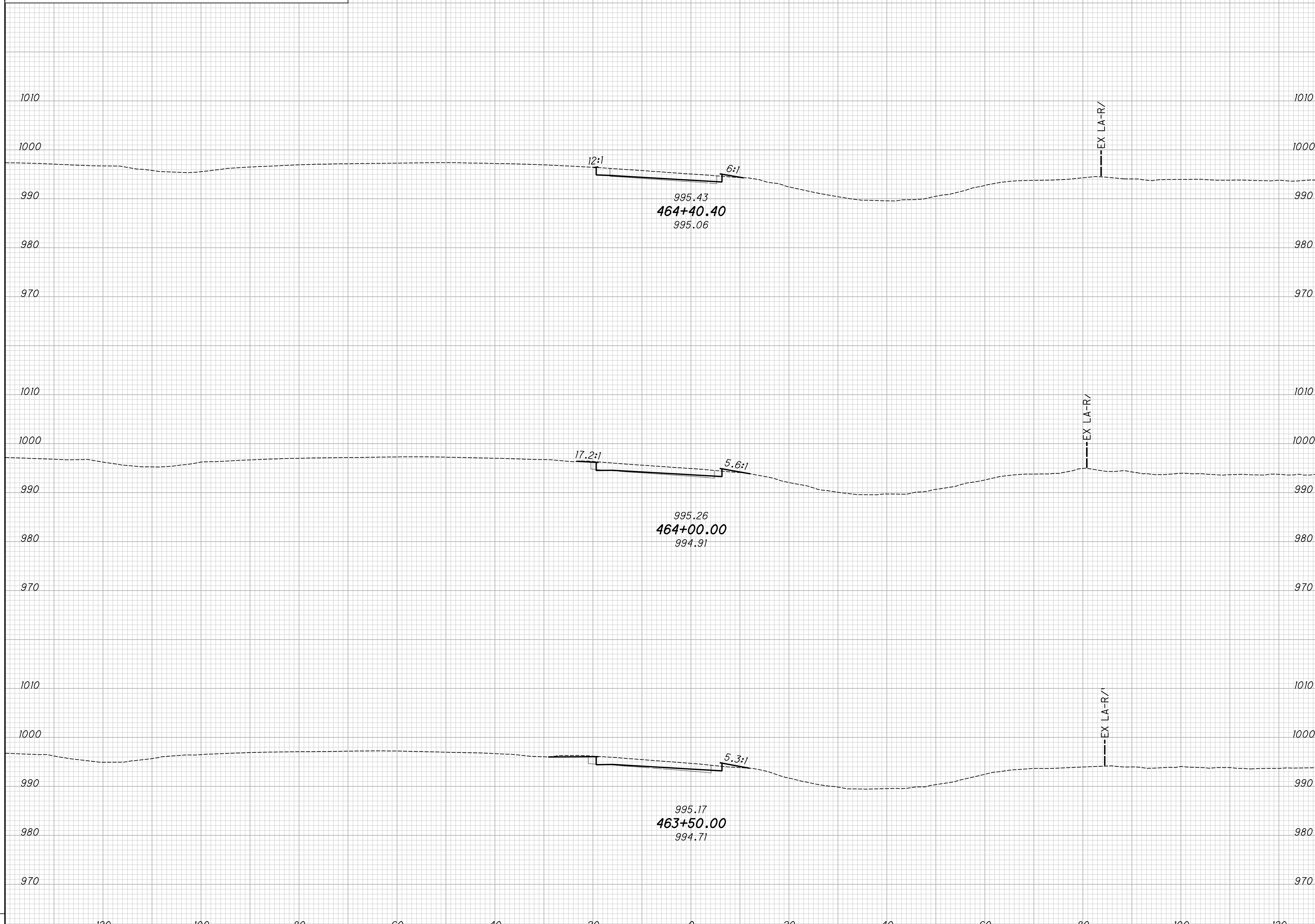
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS12L.dgn XS_SHEET_temporary_model_name_10 3/20/2019 9:51:01 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

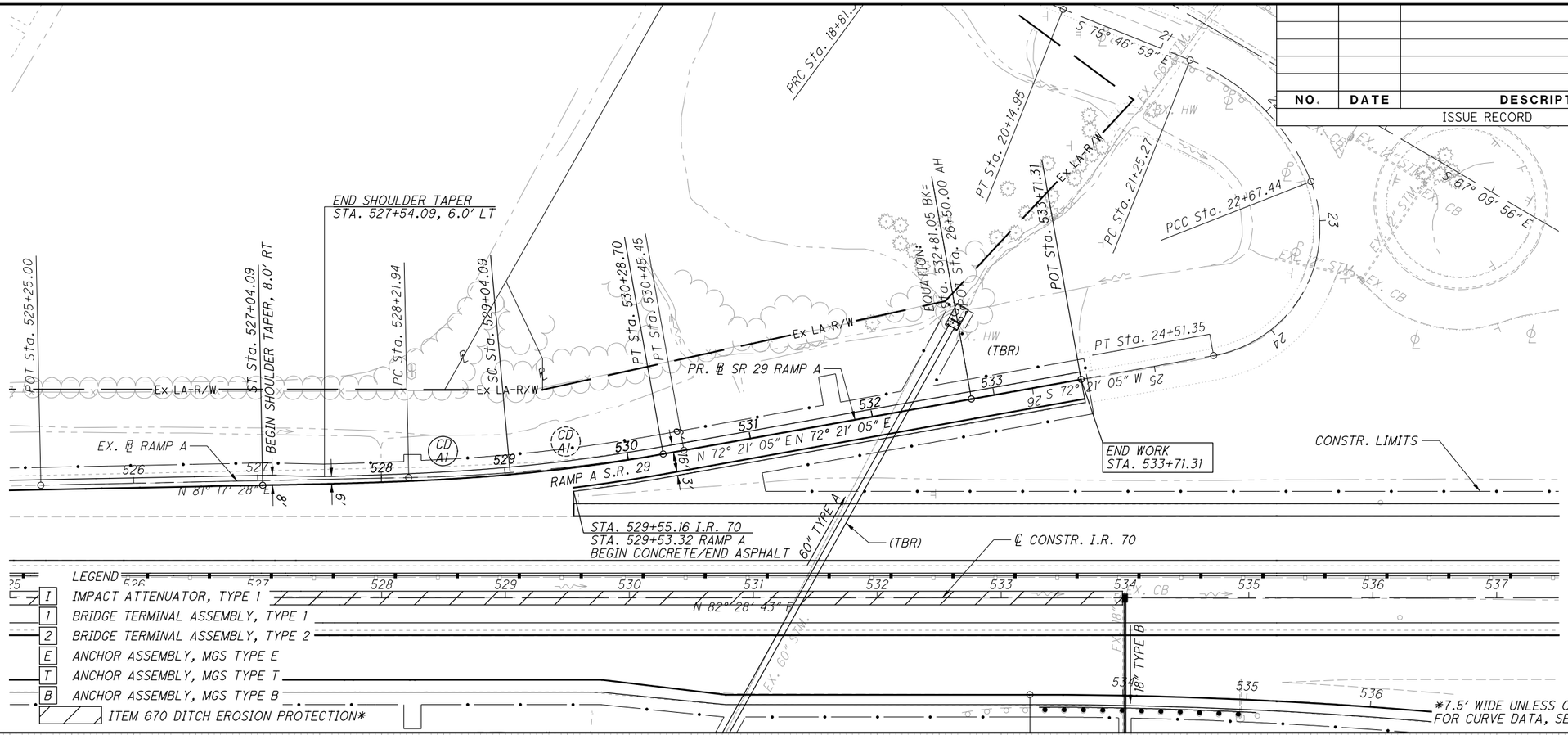
CROSS SECTIONS - U.S. 42 RAMP C
STA. 463+50.00 TO STA. 464+40.40

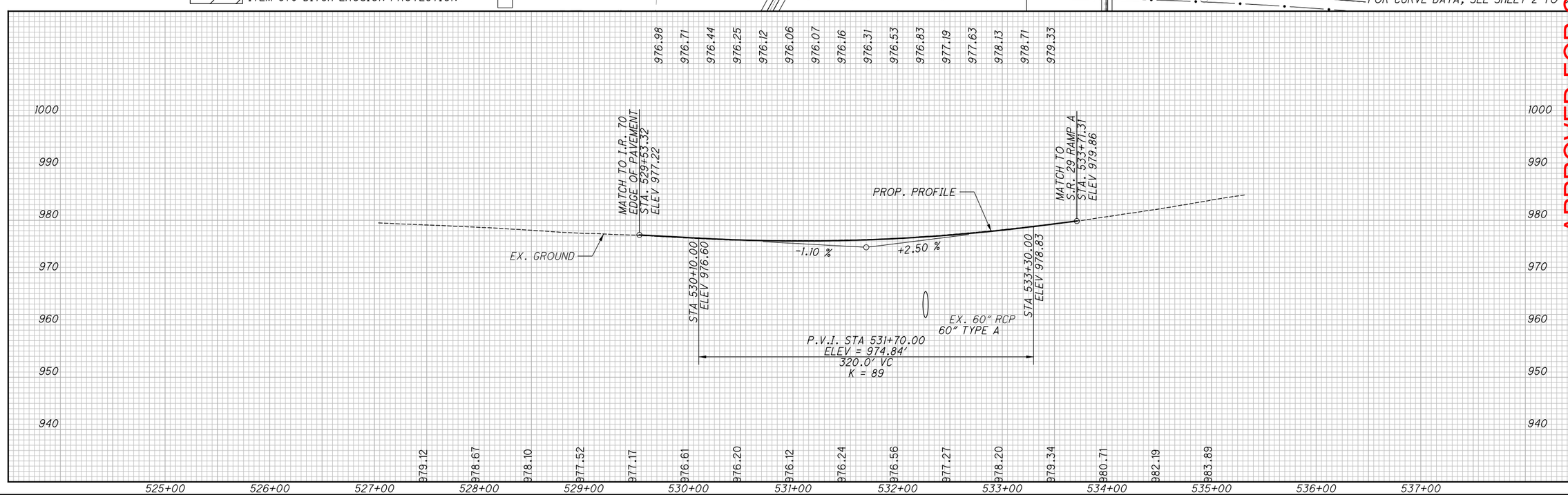
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS121.dgn XS_SHEET_temporary_model_name_11 3/20/2019 9:51:01 AM mcornett

NO.	DATE	DESCRIPTION

ISSUE RECORD





HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE - S.R. 29 RAMP A
STA.529+53.32 TO STA. 533+73.31

MAD-70-8.62

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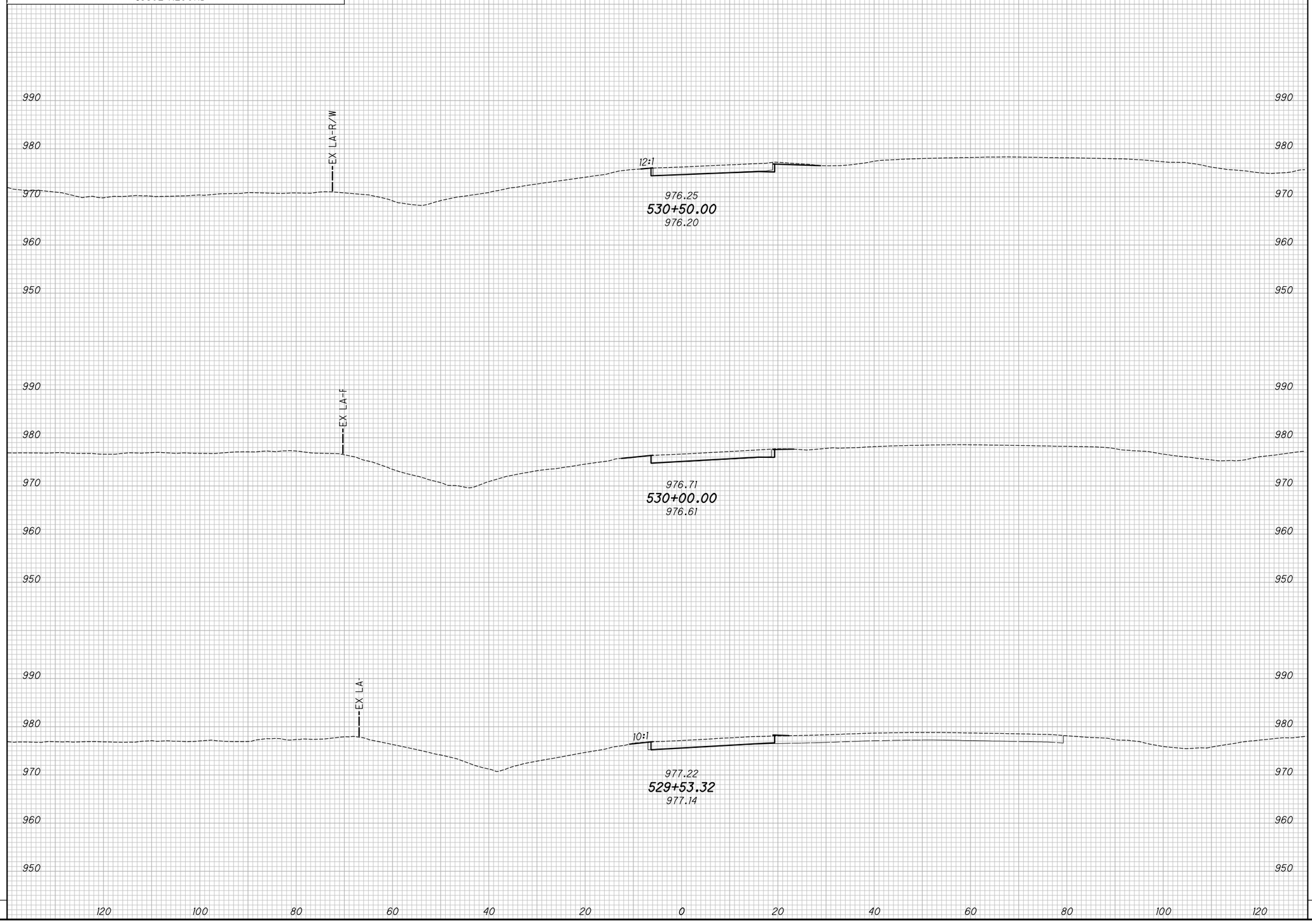
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 29 RAMP A
STA. 529+53.32 TO STA. 530+50.00

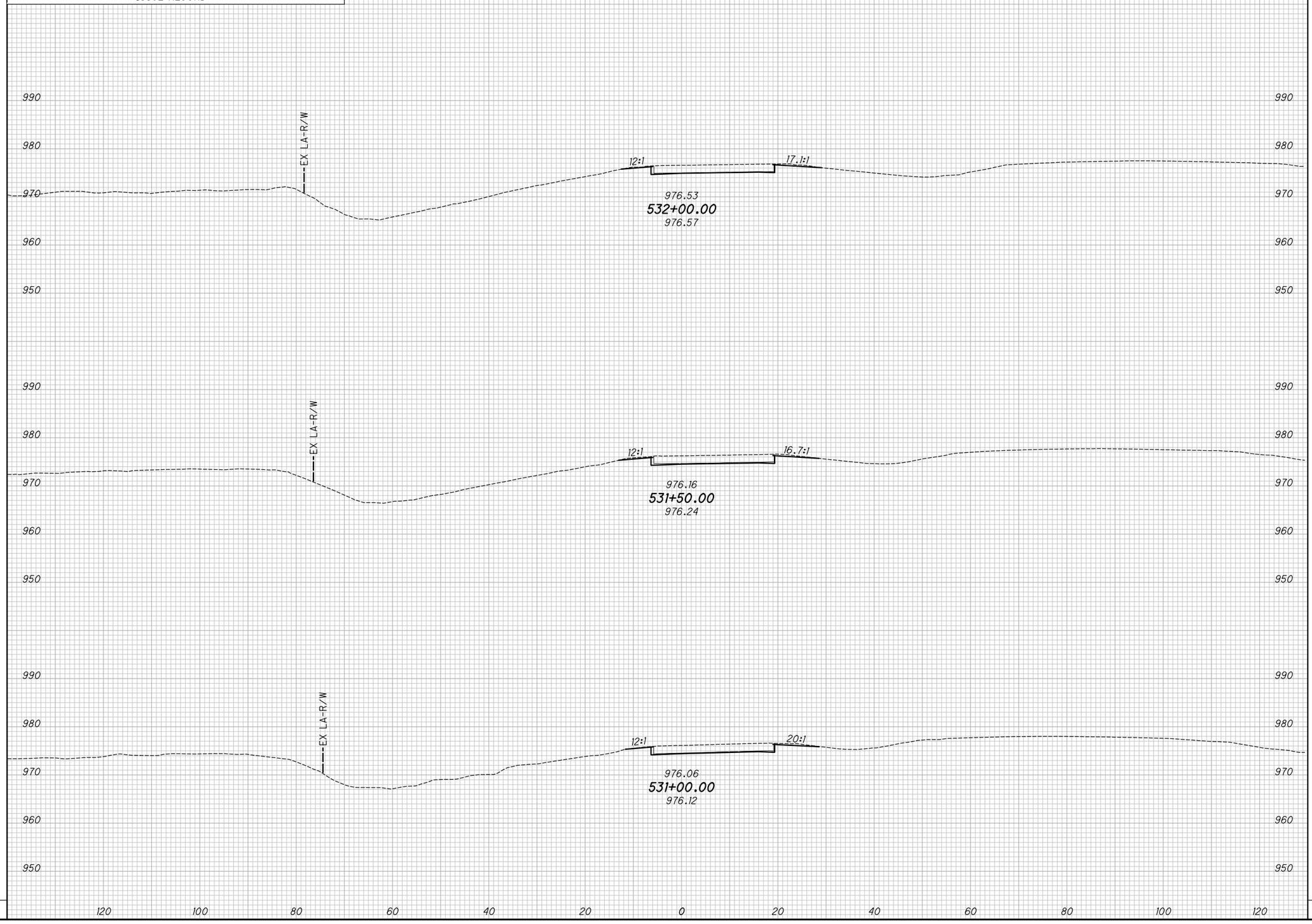
MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS2lL.dgn XS_SHEET_temporary_model_name_l 3/20/2019 9:51:04 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 29 RAMP A
STA. 531+00.00 TO STA. 532+00.00

MAD-70-8.62

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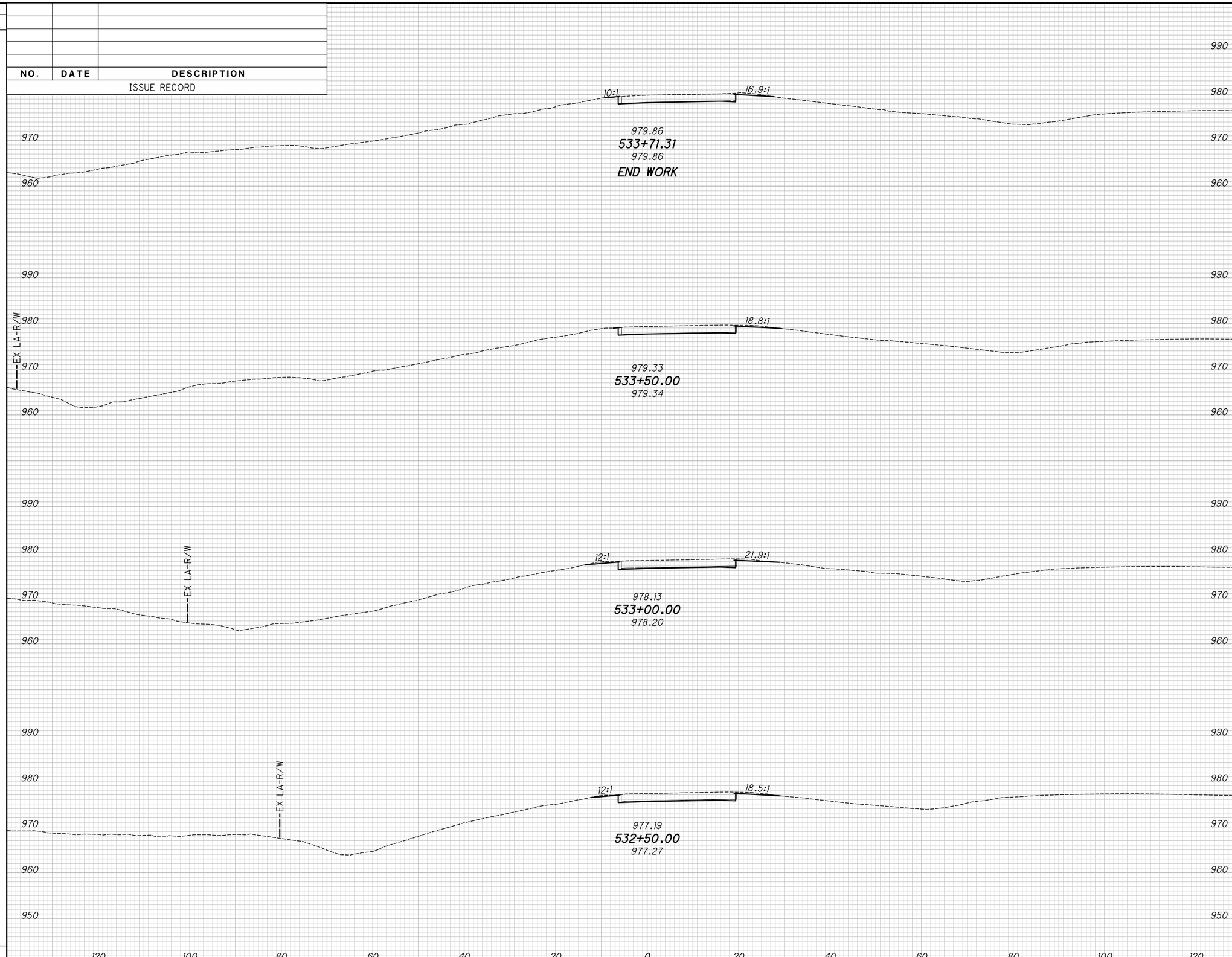
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 29 RAMP A
STA. 532+50.00 TO STA. END WORK

MAD-70-8.62

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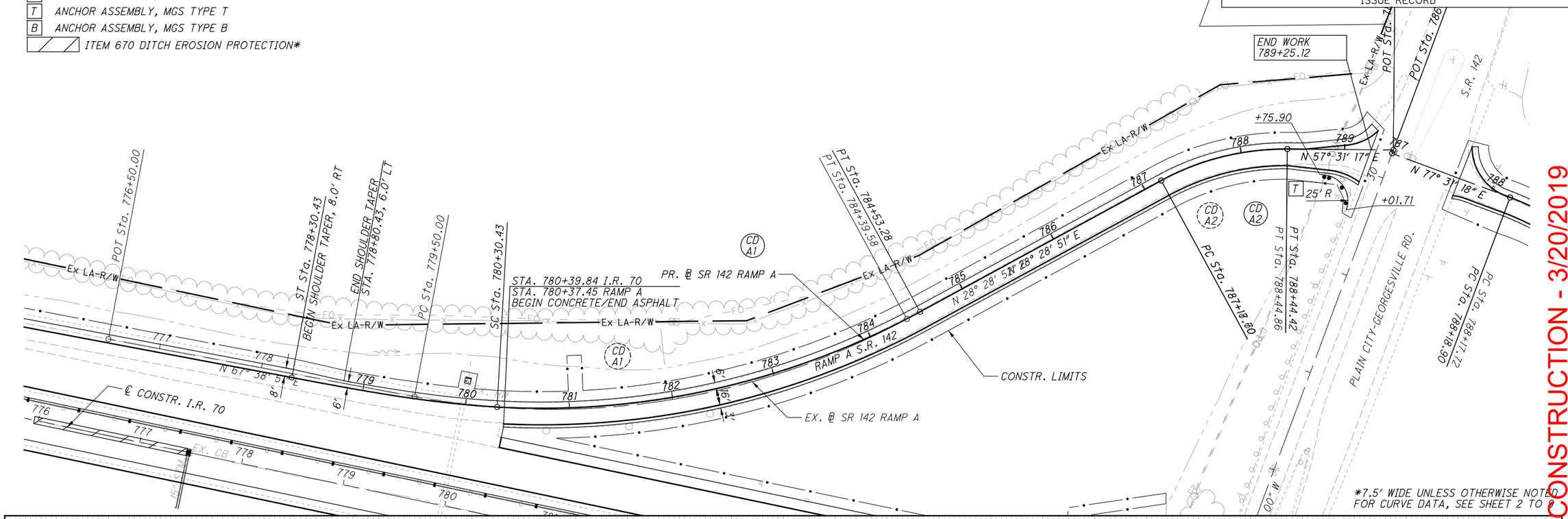
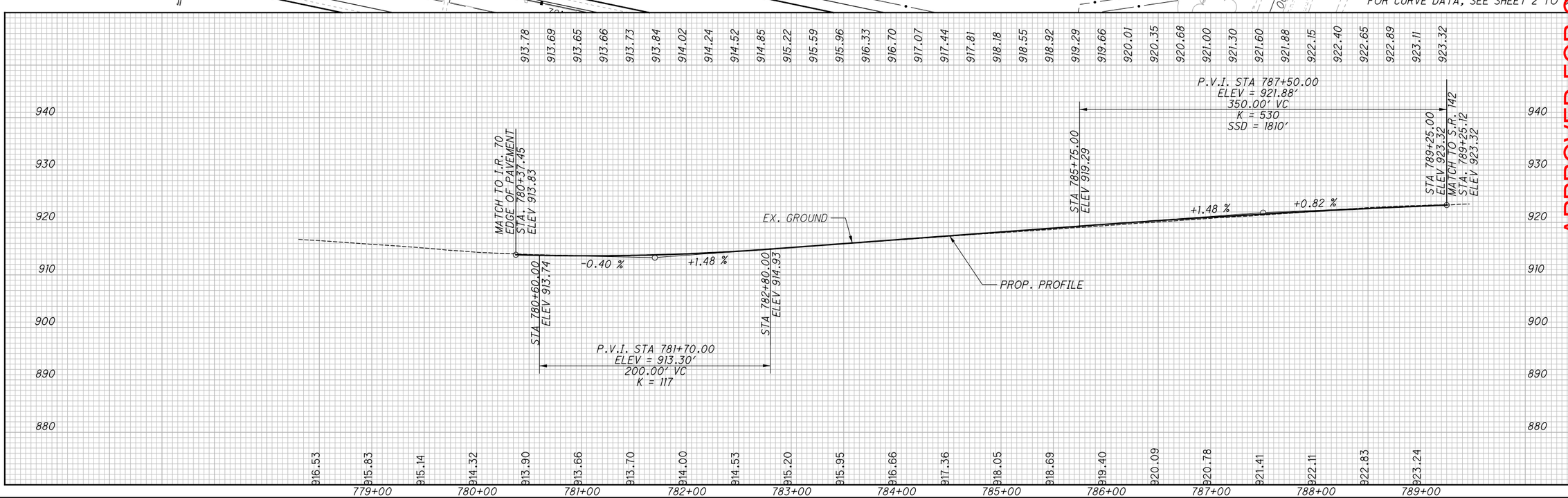
LEGEND

- I — IMPACT ATTENUATOR, TYPE 1
- 1 — BRIDGE TERMINAL ASSEMBLY, TYPE 1
- 2 — BRIDGE TERMINAL ASSEMBLY, TYPE 2
- E — ANCHOR ASSEMBLY, MGS TYPE E
- T — ANCHOR ASSEMBLY, MGS TYPE T
- B — ANCHOR ASSEMBLY, MGS TYPE B
- ITEM 670 DITCH EROSION PROTECTION*

NO.	DATE	DESCRIPTION
		ISSUE RECORD





APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE - S.R. 142 RAMP A
STA. 778+30.43 TO STA. 789+25.12

MAD-70-8.62

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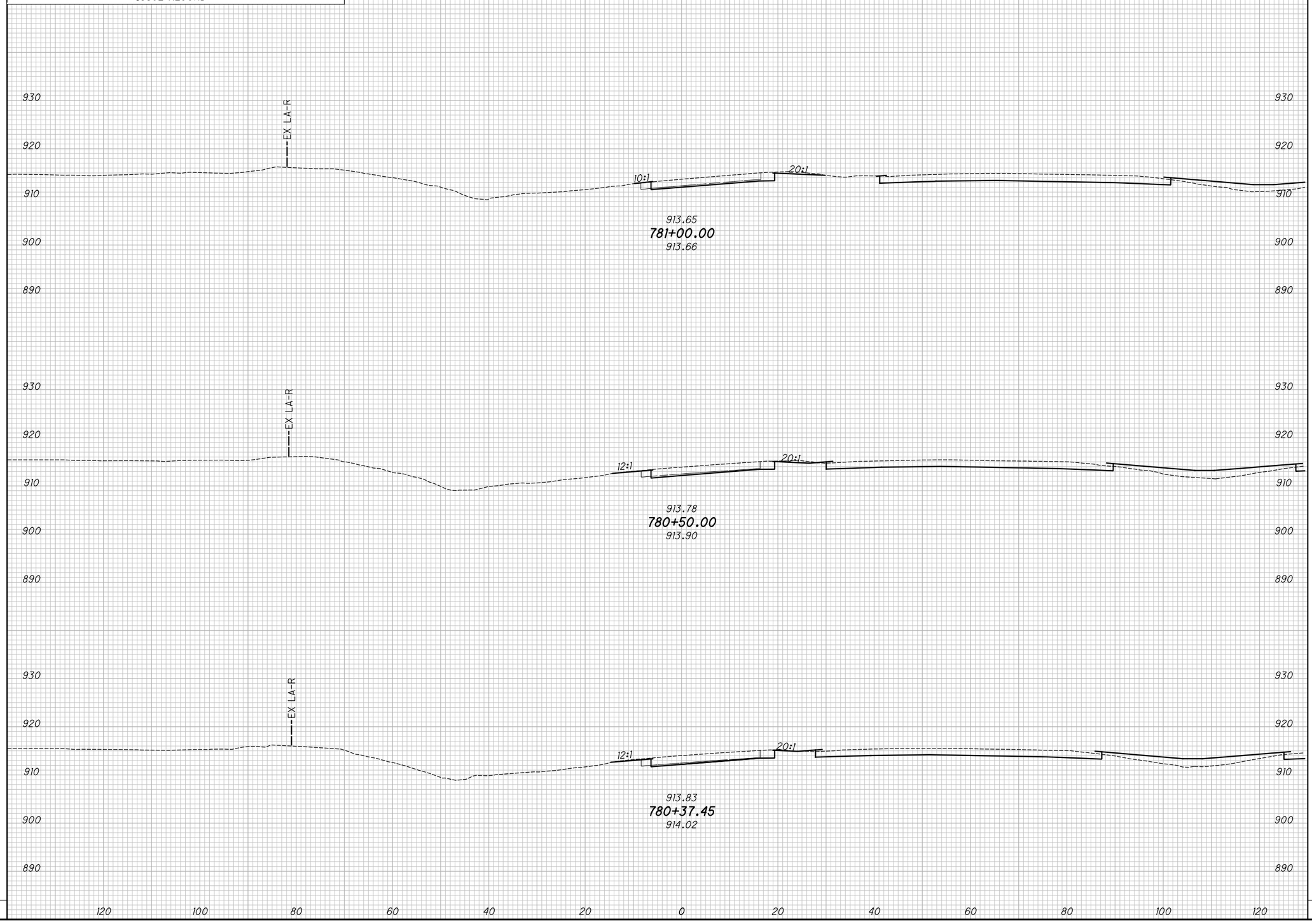
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP A
STA. 780+37.45 TO STA. 781+00.00

MAD-70-8.62

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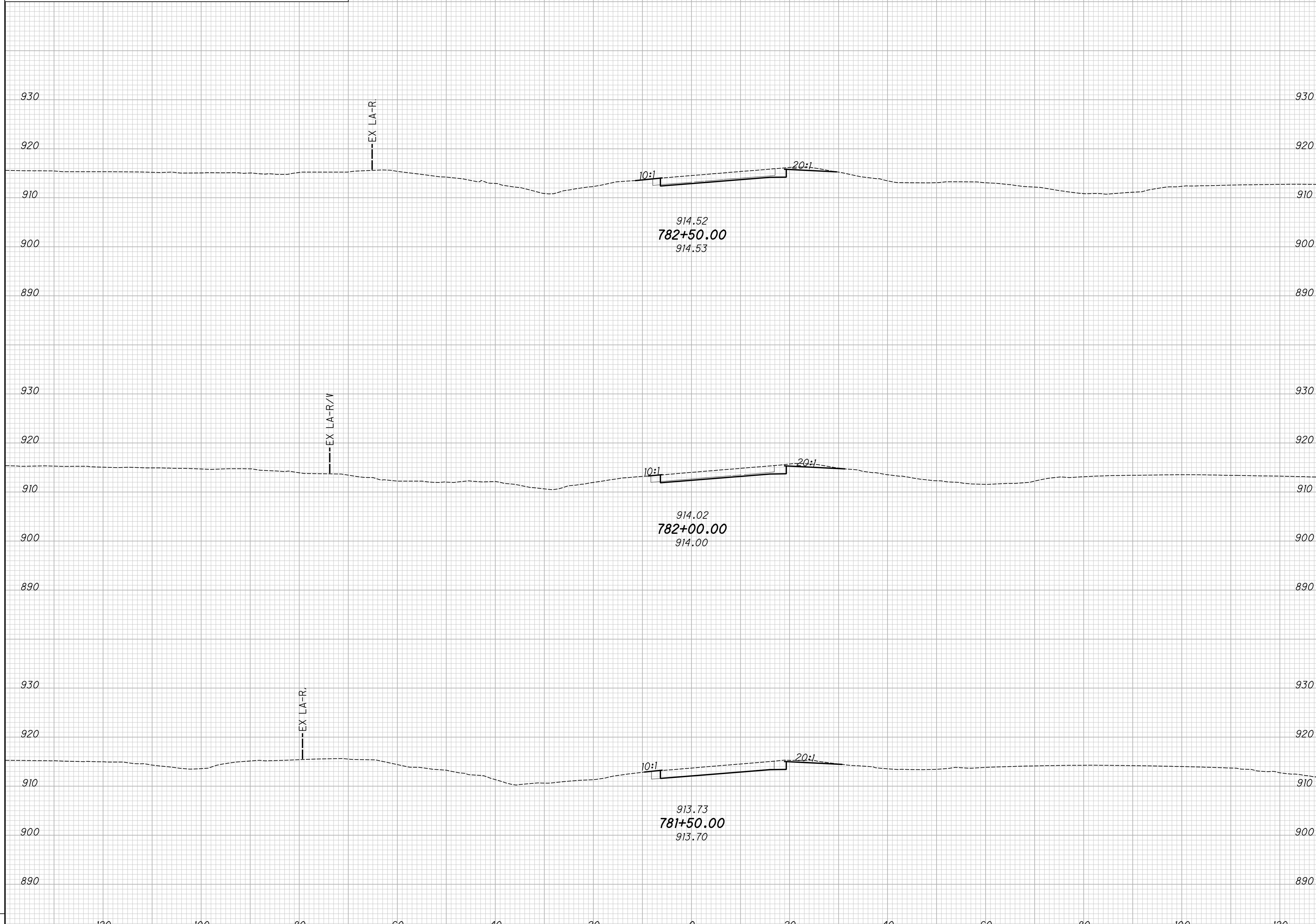
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED KRF
CHECKED BBD

CROSS SECTIONS - S.R. 142 RAMP A
STA. 781+50.00 TO STA. 782+50.00

MAD-70-8.62

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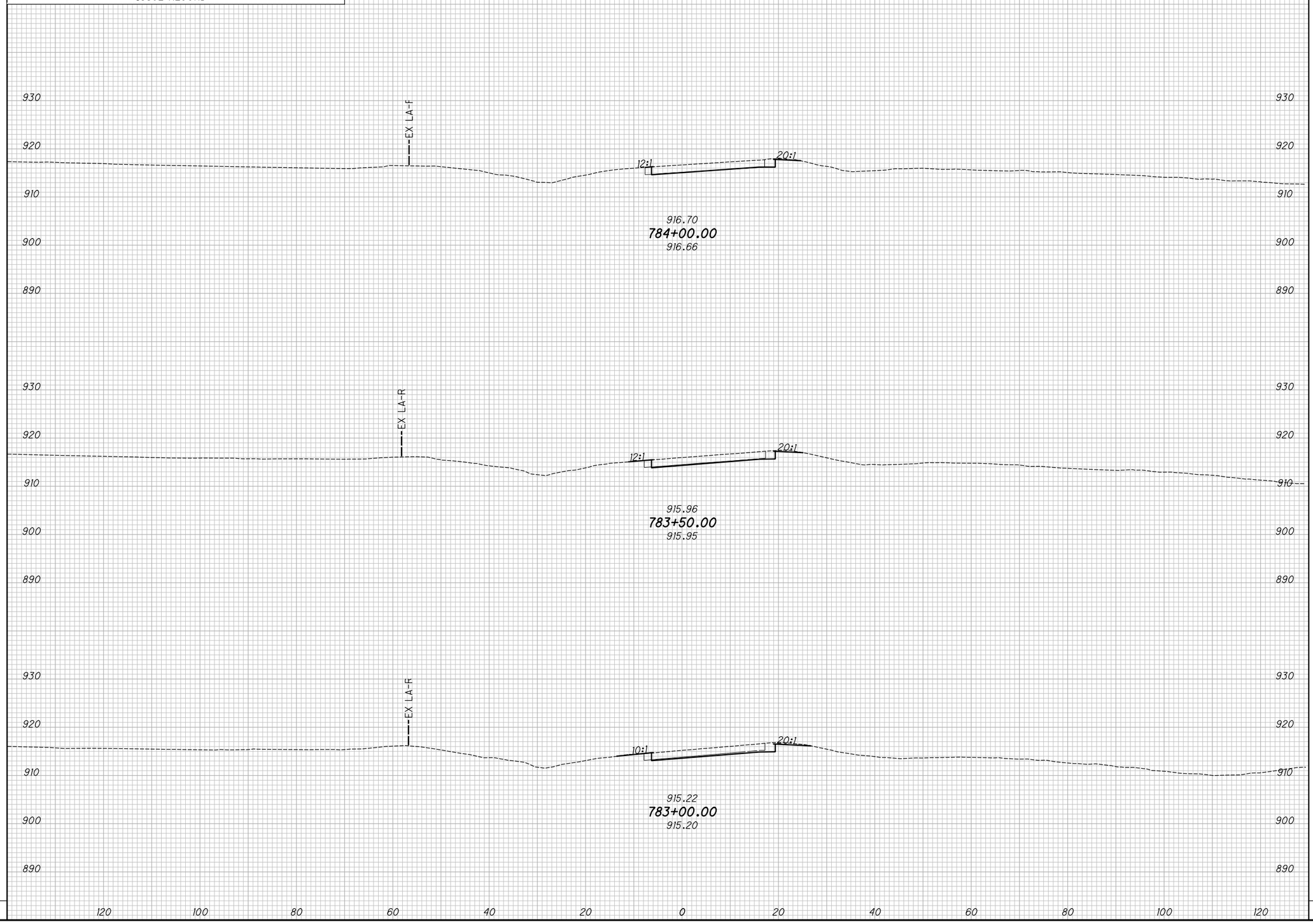
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP A
STA. 783+00.00 TO STA. 784+00.00

MAD-70-8.62

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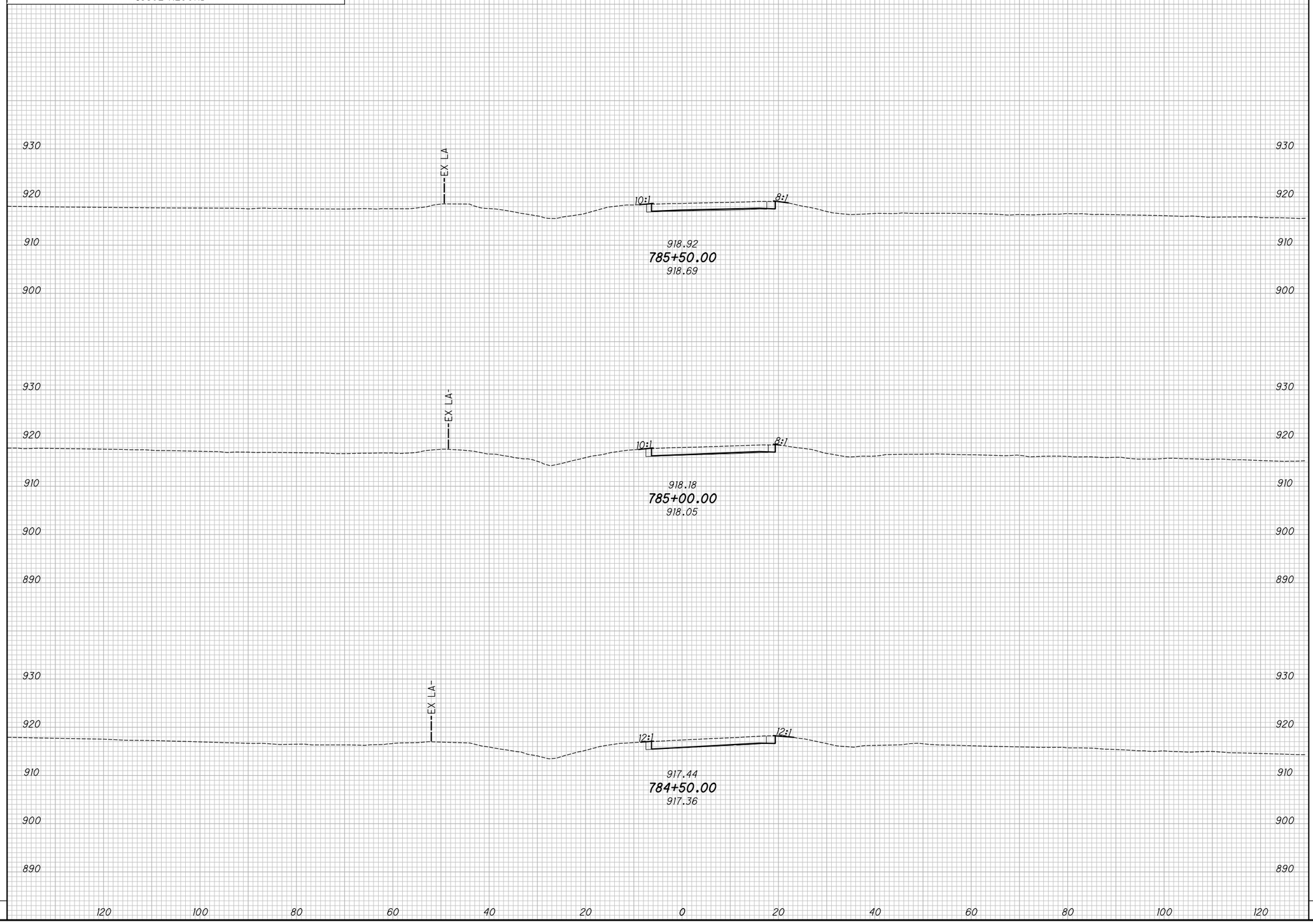
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP A
STA. 784+50.00 TO STA. 785+50.00

MAD-70-8.62

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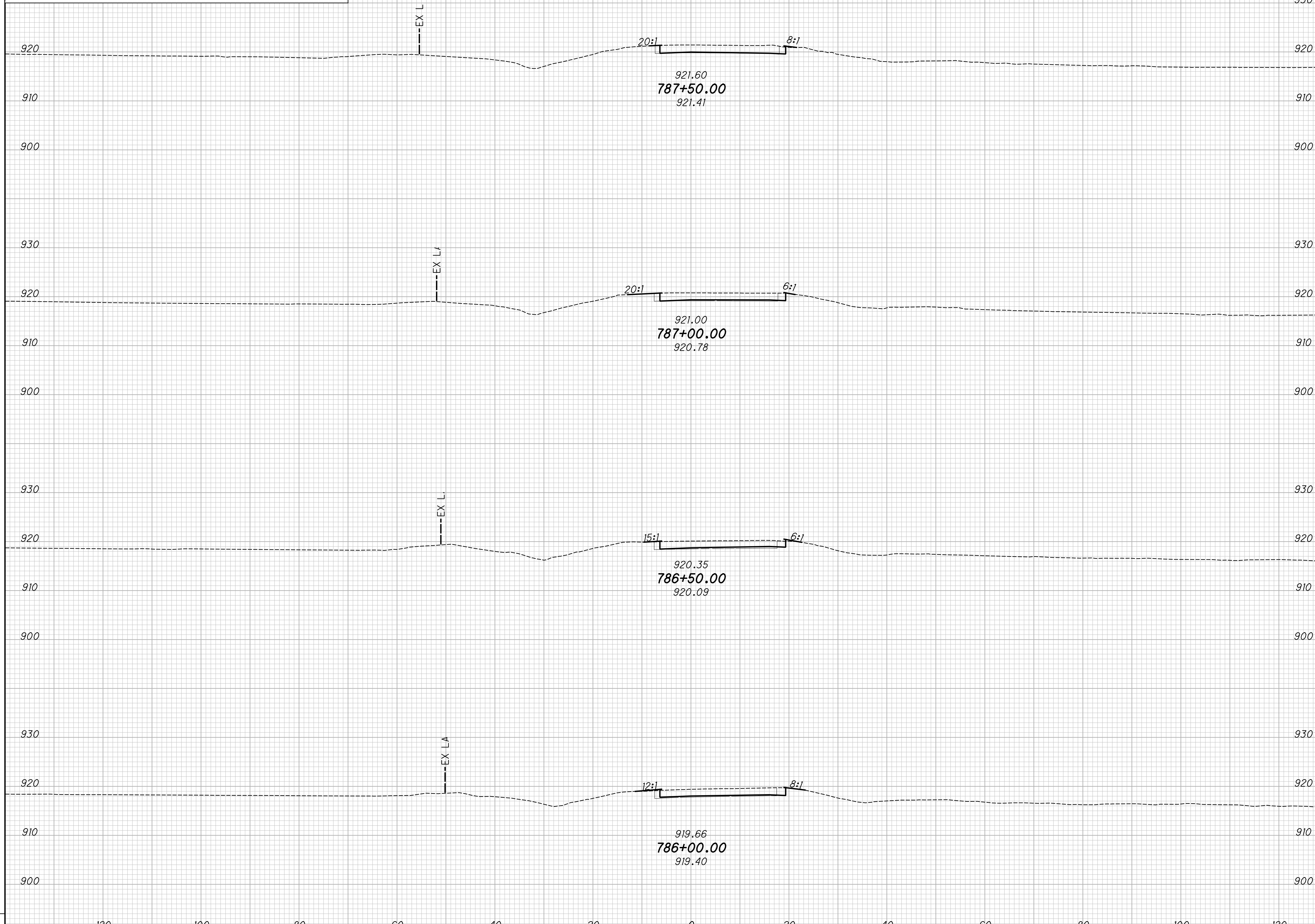
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP A
STA. 786+00.00 TO STA. 787+50.00

MAD-70-8.62

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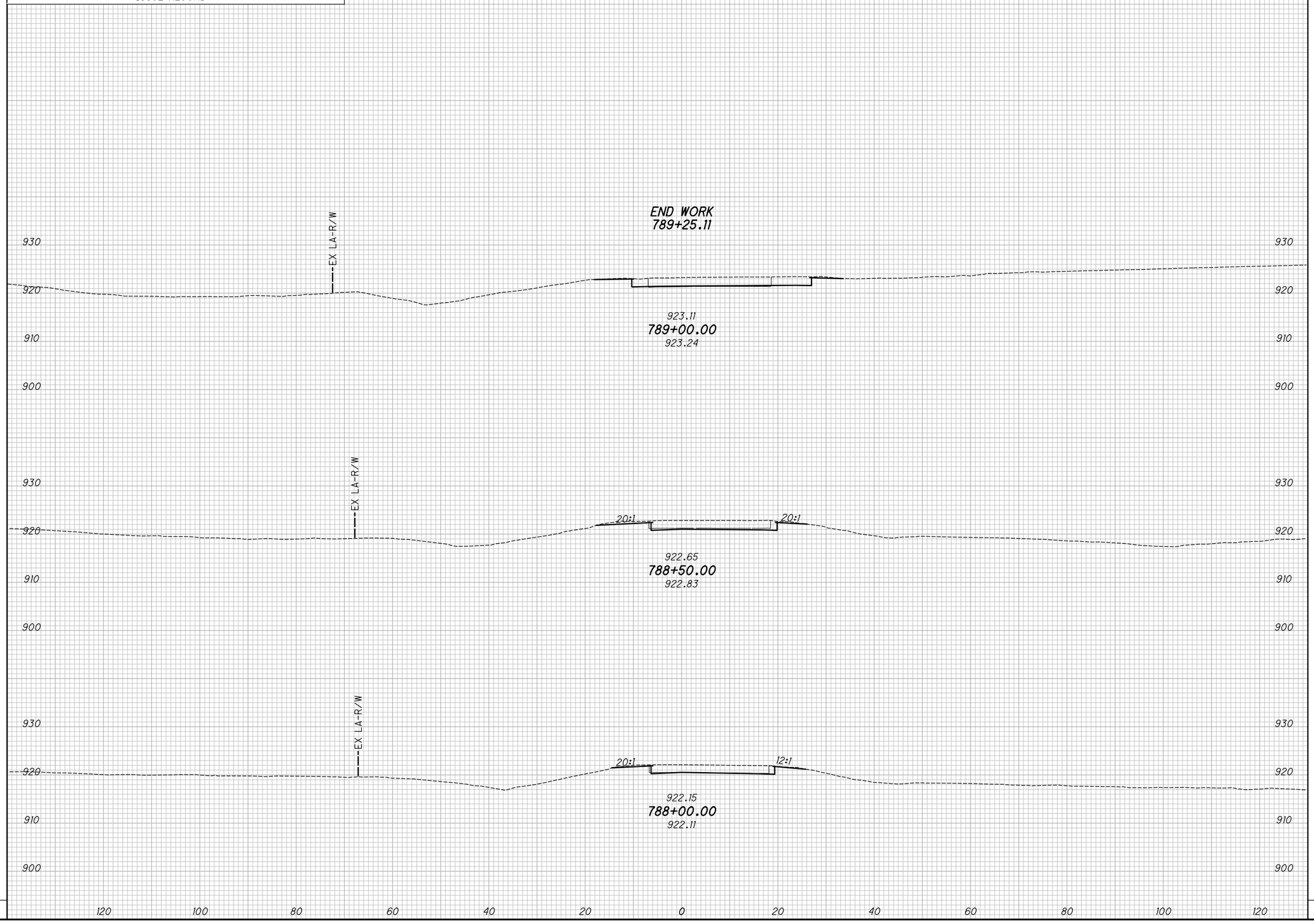
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP A
STA. 788+00.00 TO END WORK

MAD-70-8.62

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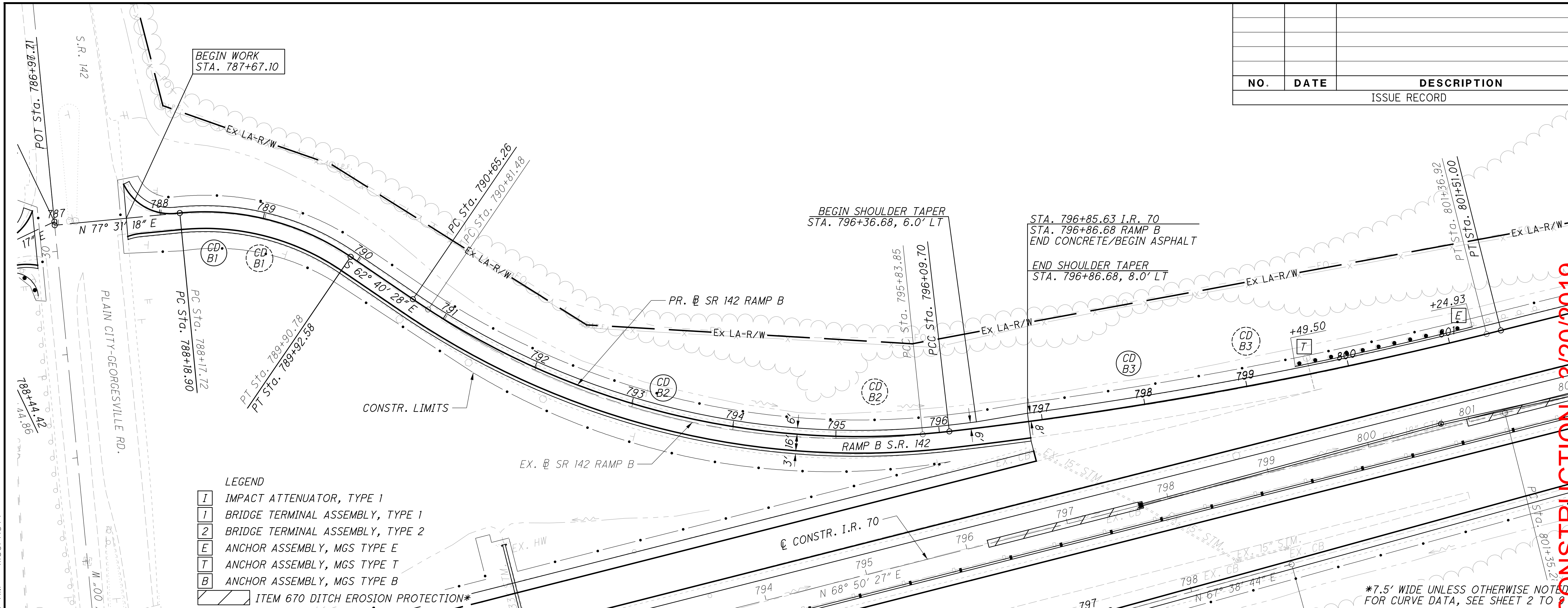

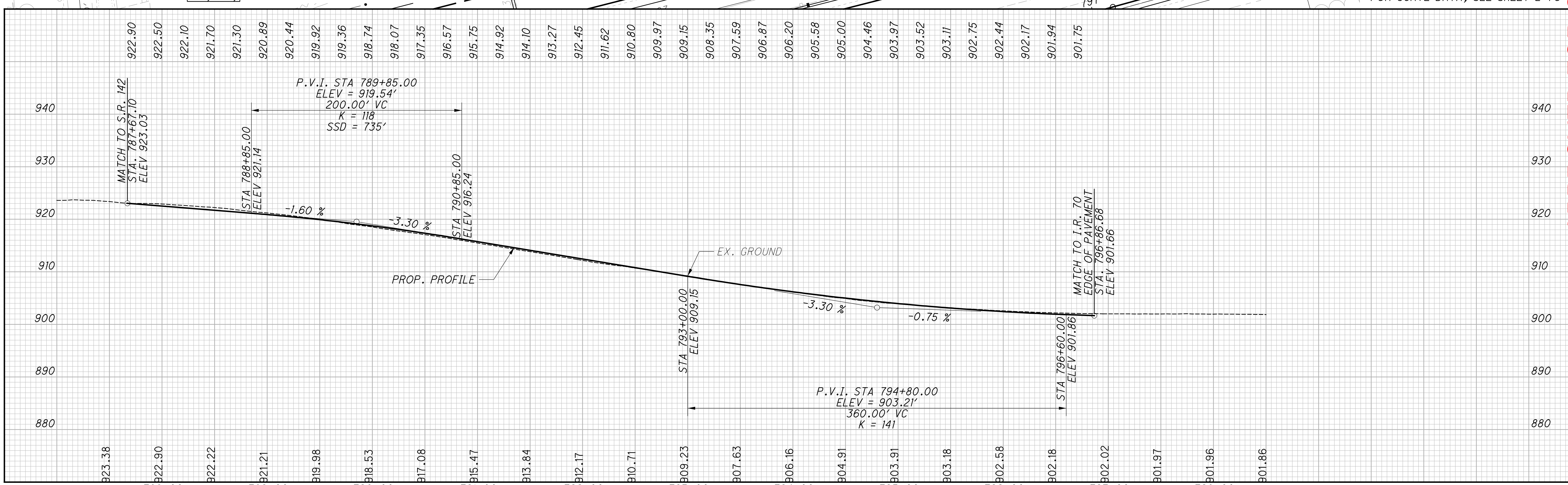

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET (0 25 50 100)

CALCULATED TDP CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

PLAN AND PROFILE - S.R. 142 RAMP B
STA. 786+67.10 TO STA. 801+51.00

MAD-70-8.62

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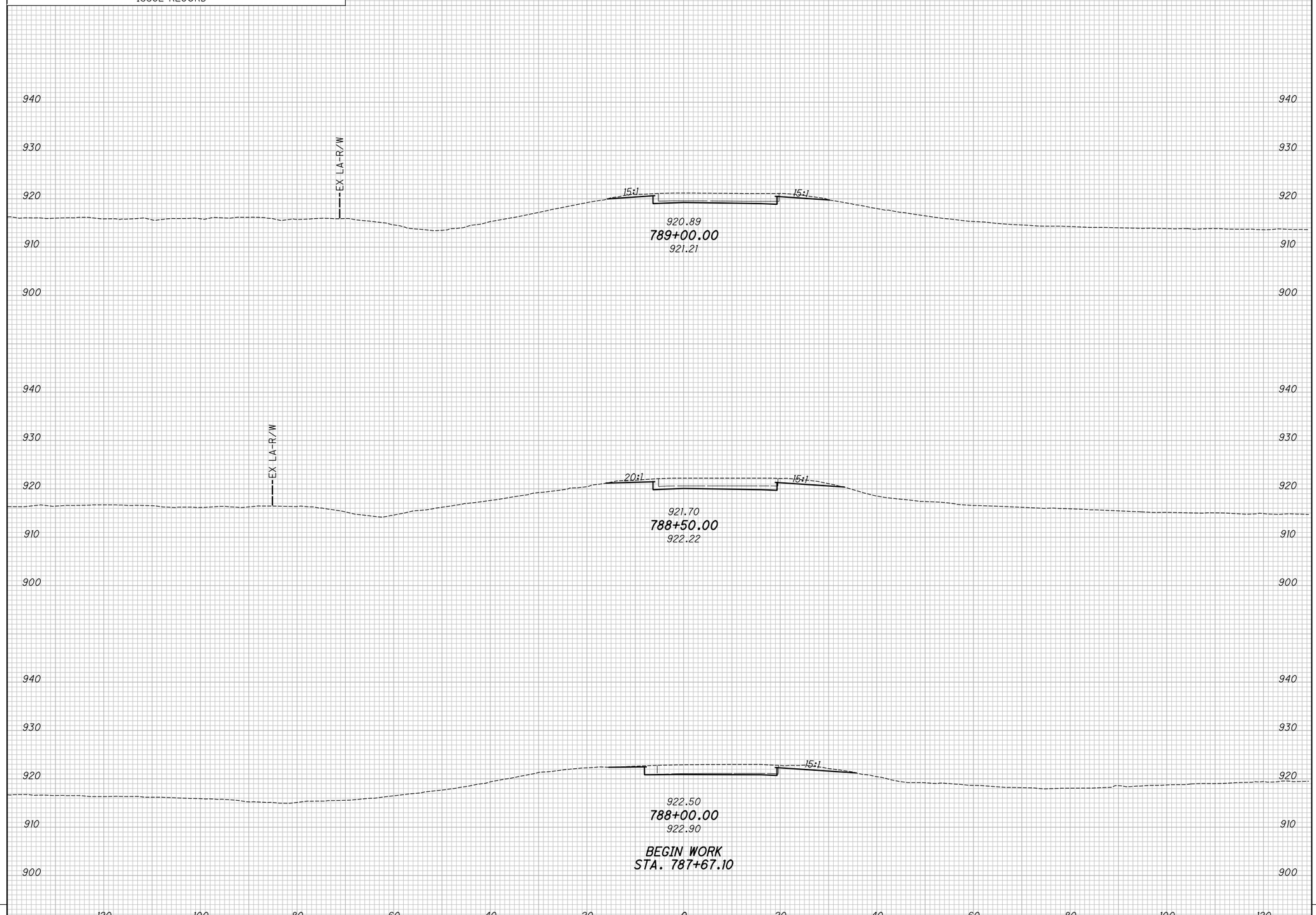
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP B
BEGIN WORK TO STA. 789+00.00

MAD-70-8.62

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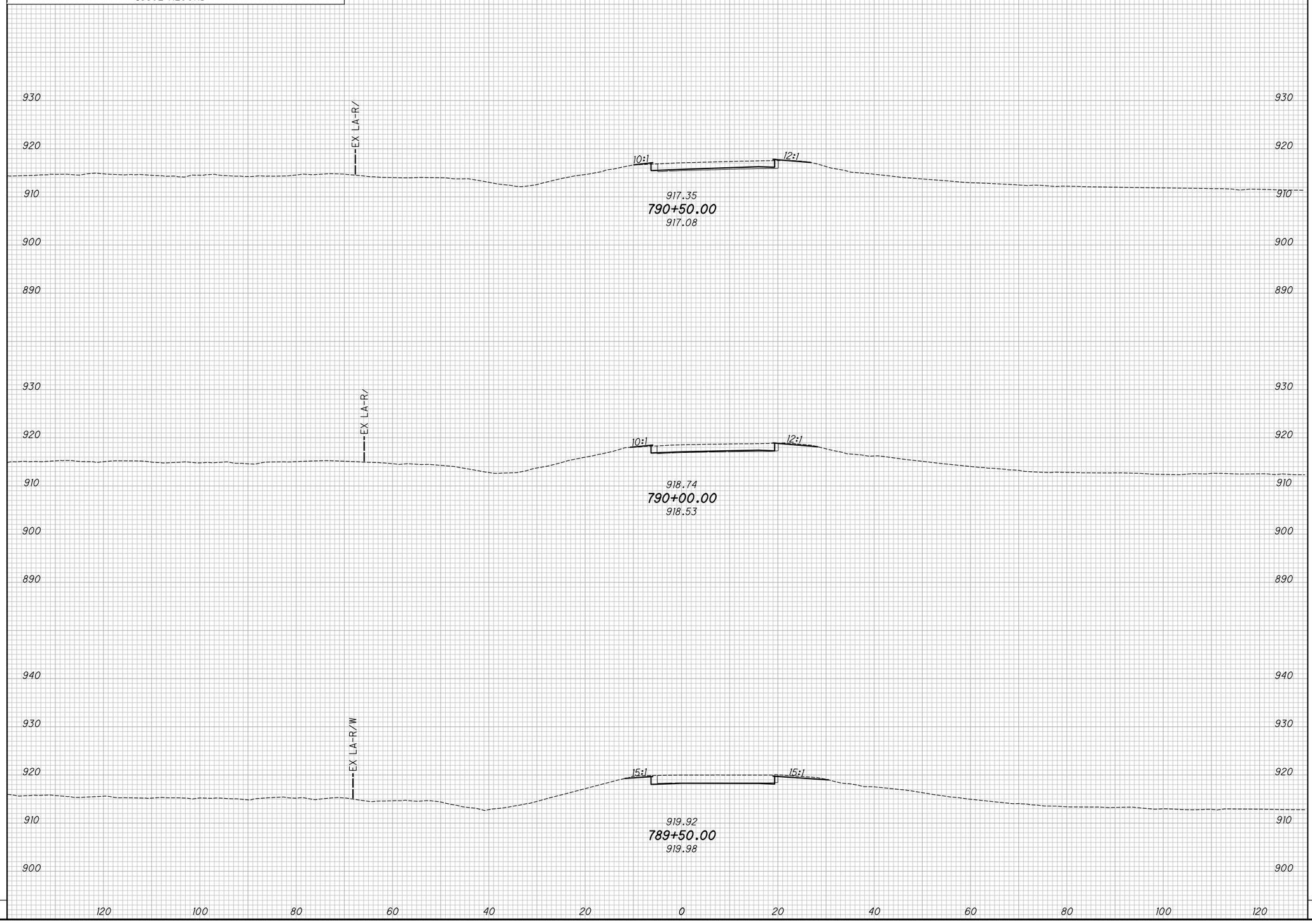
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP B
STA. 789+50.00 TO STA. 790+50.00

MAD-70-8.62

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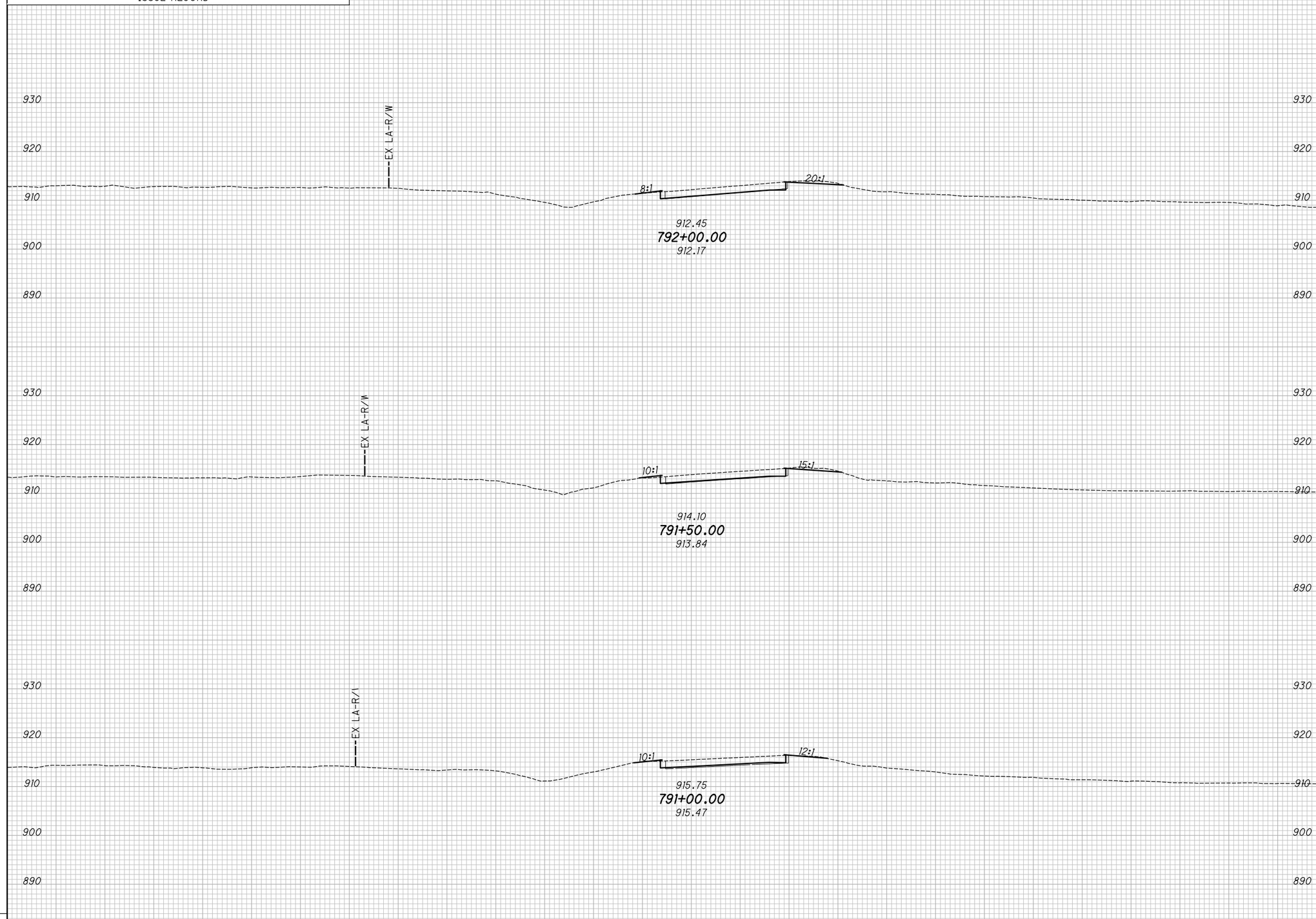
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

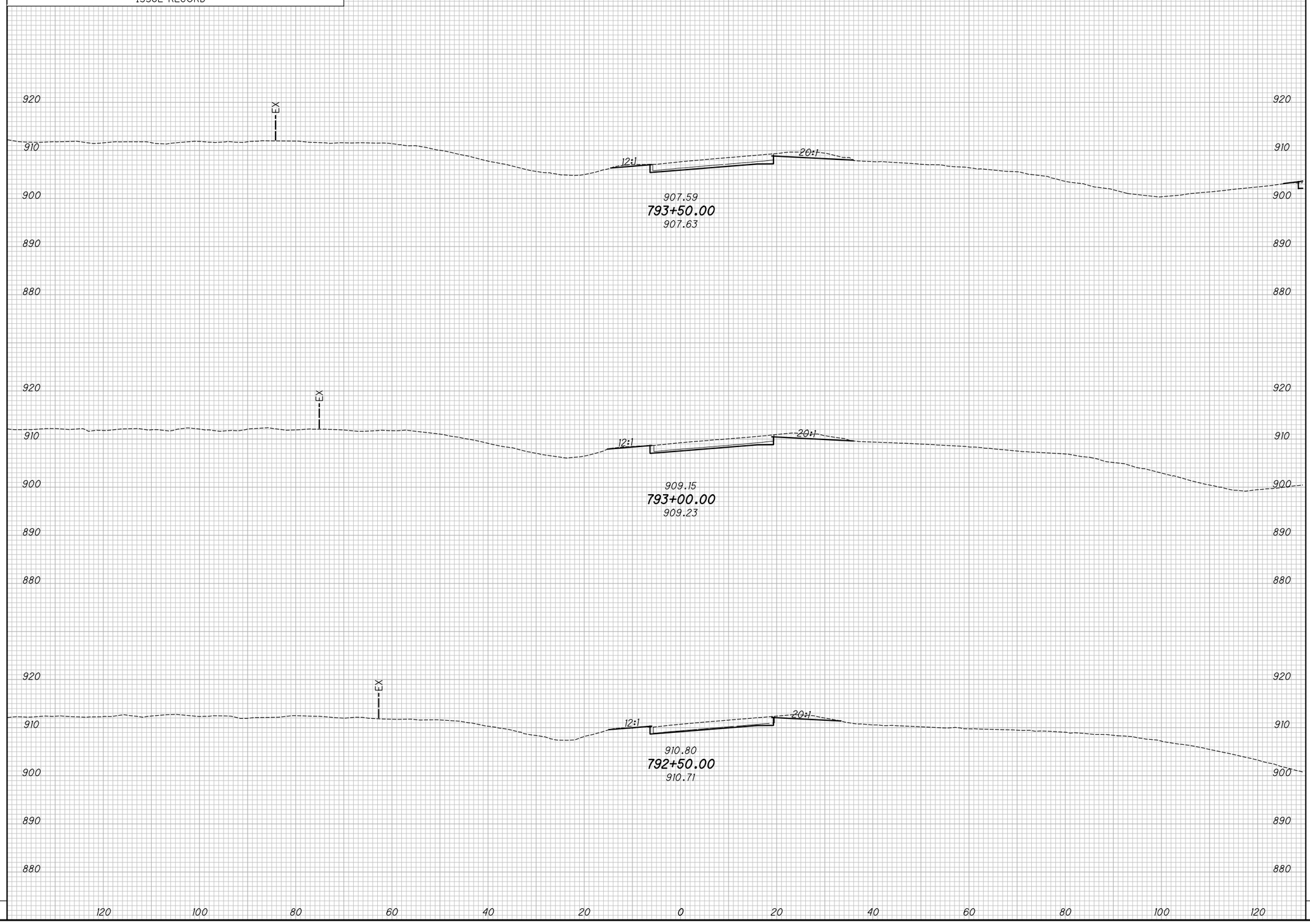
CROSS SECTIONS - S.R. 142 RAMP B
STA. 791+00.00 TO STA. 792+00.00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS32L.dgn XS_SHEET_temporary_model_name_3 3/20/2019 9:51:12 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP B
STA. 792+50.00 TO STA. 793+50.00

MAD-70-8.62

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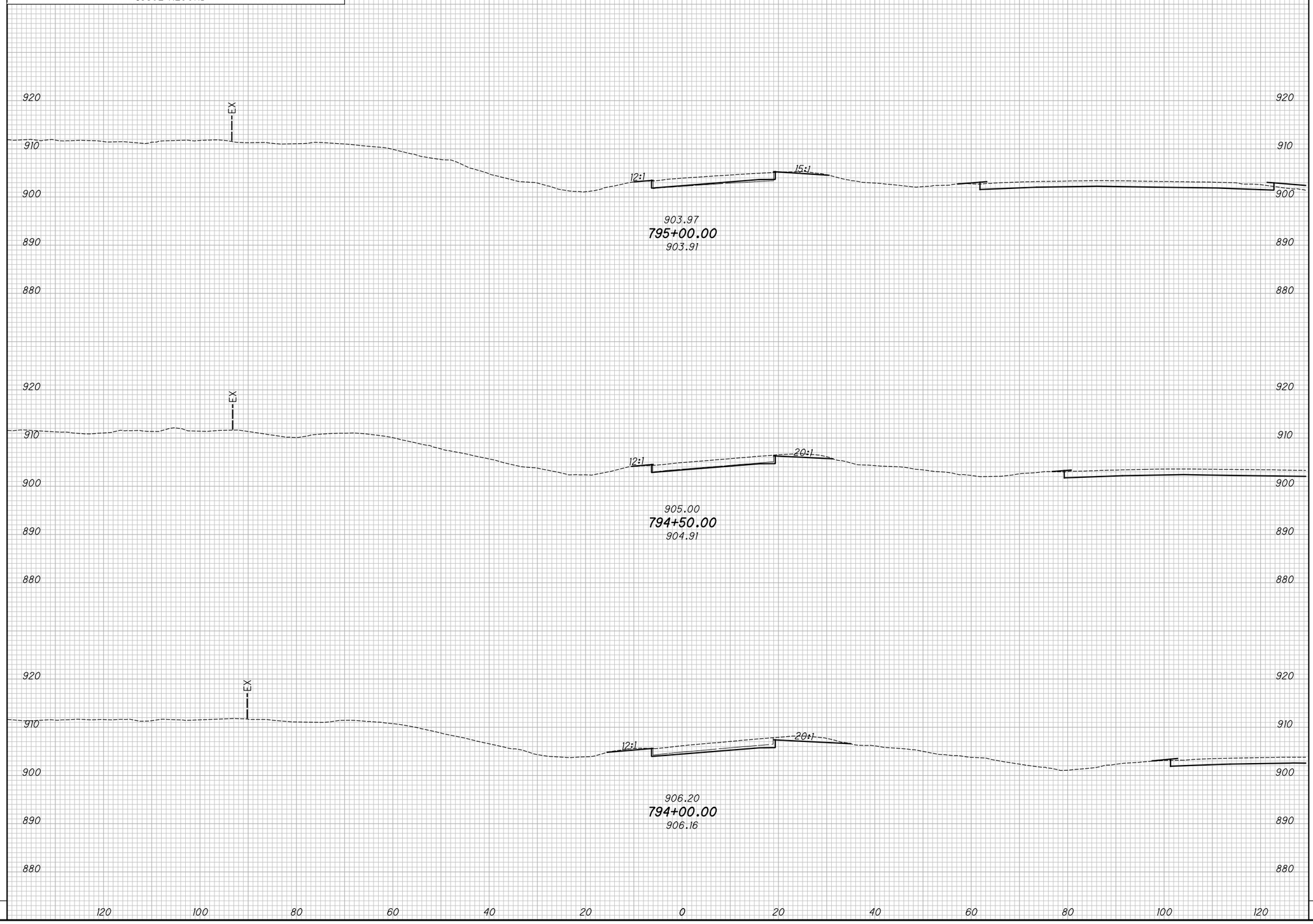
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP B
STA. 794+00.00 TO STA. 795+00.00

MAD-70-8.62

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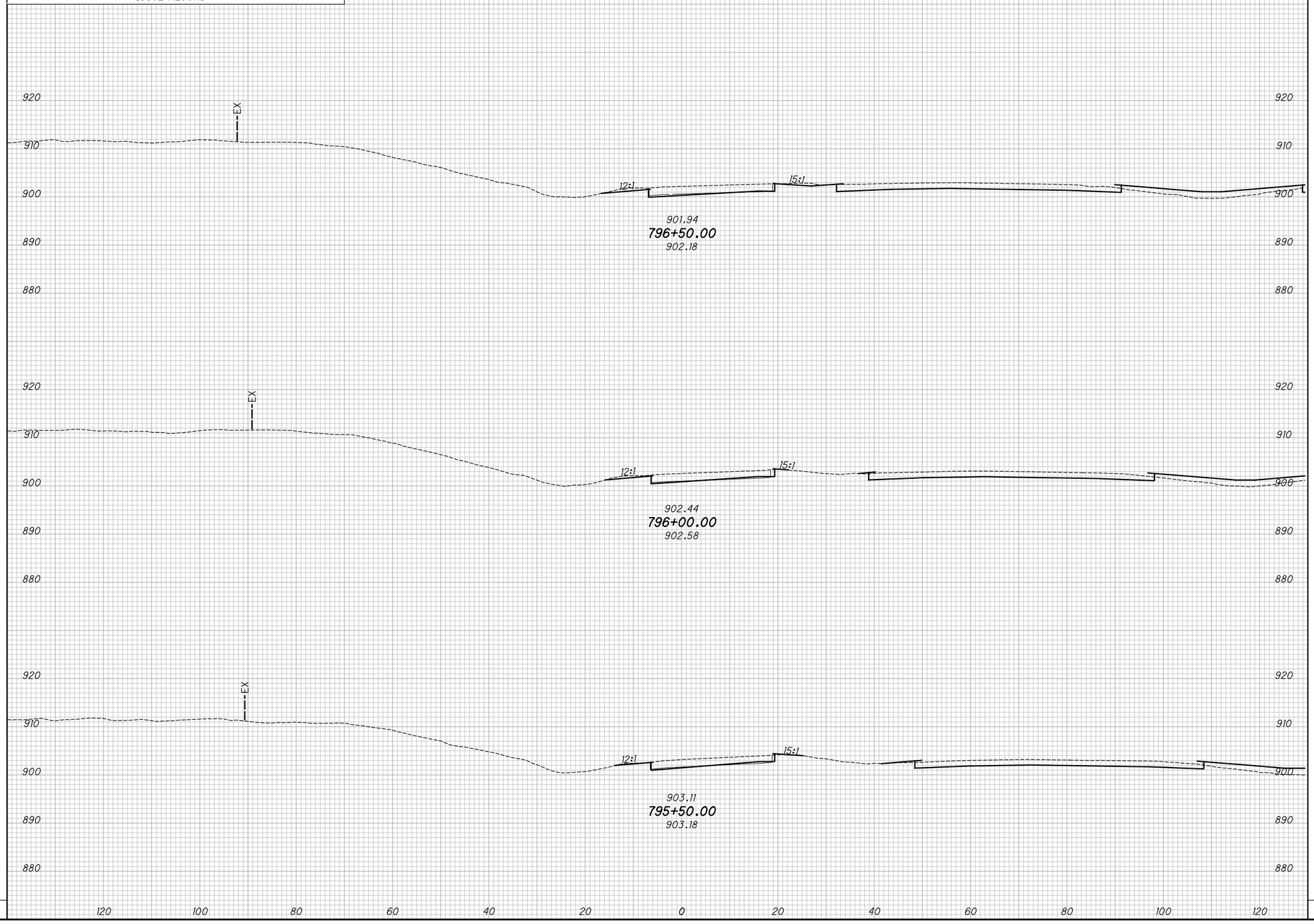
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP B
STA. 795+50.00 TO STA. 796+50.00

MAD-70-8.62

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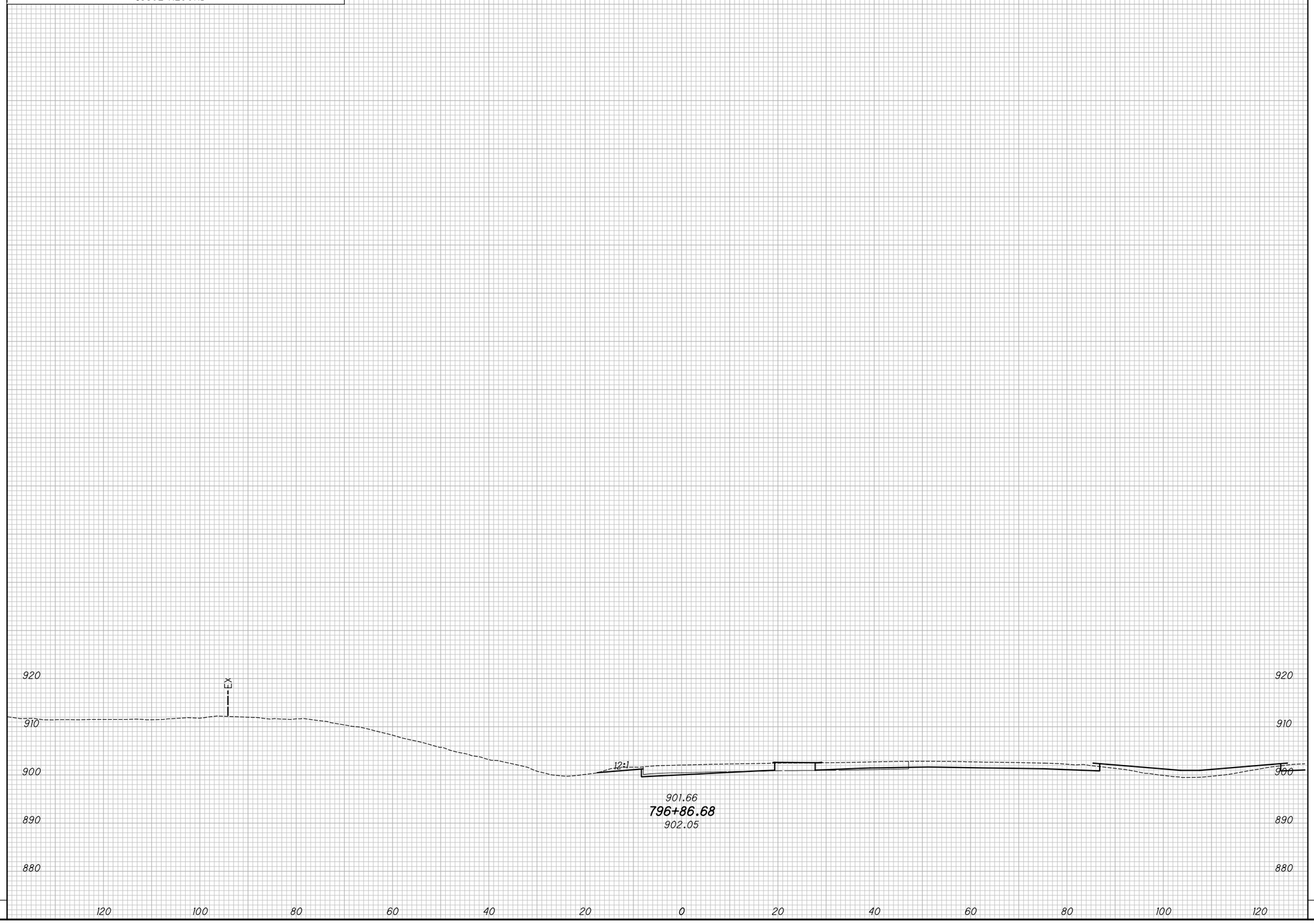
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP B

STA. 796+86.68

MAD-70-8.62

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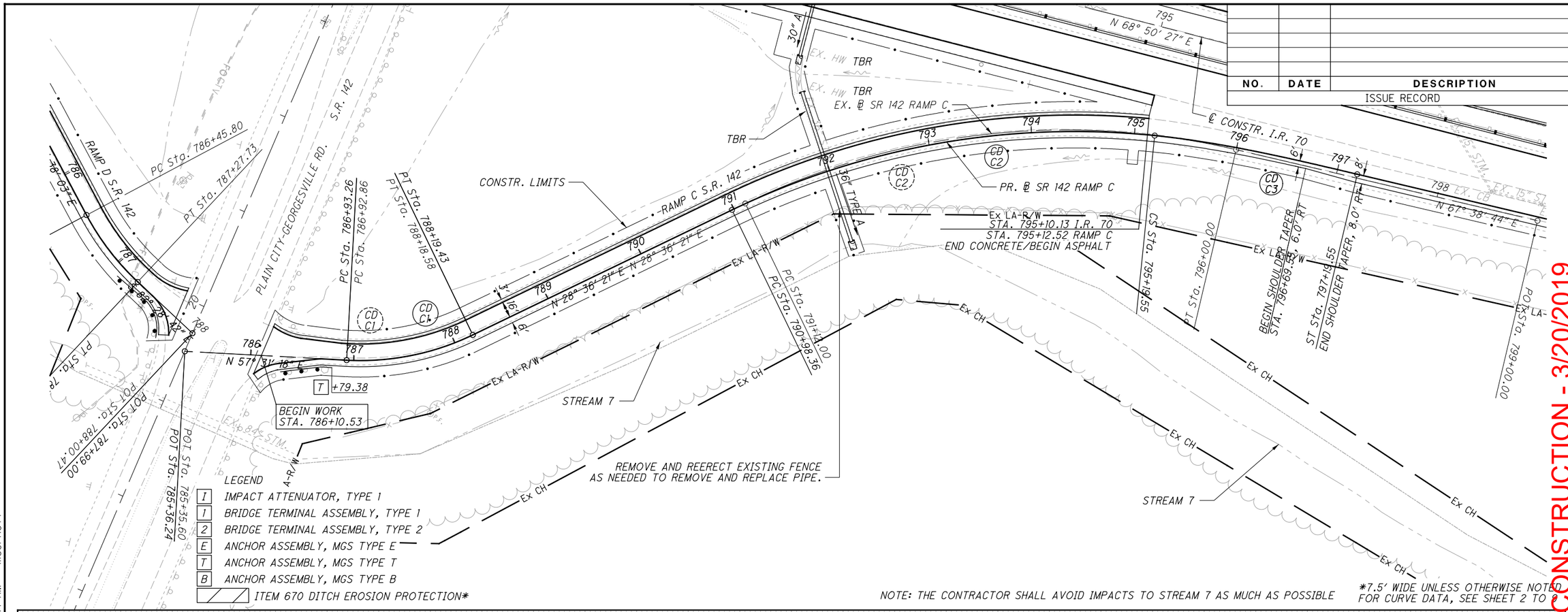
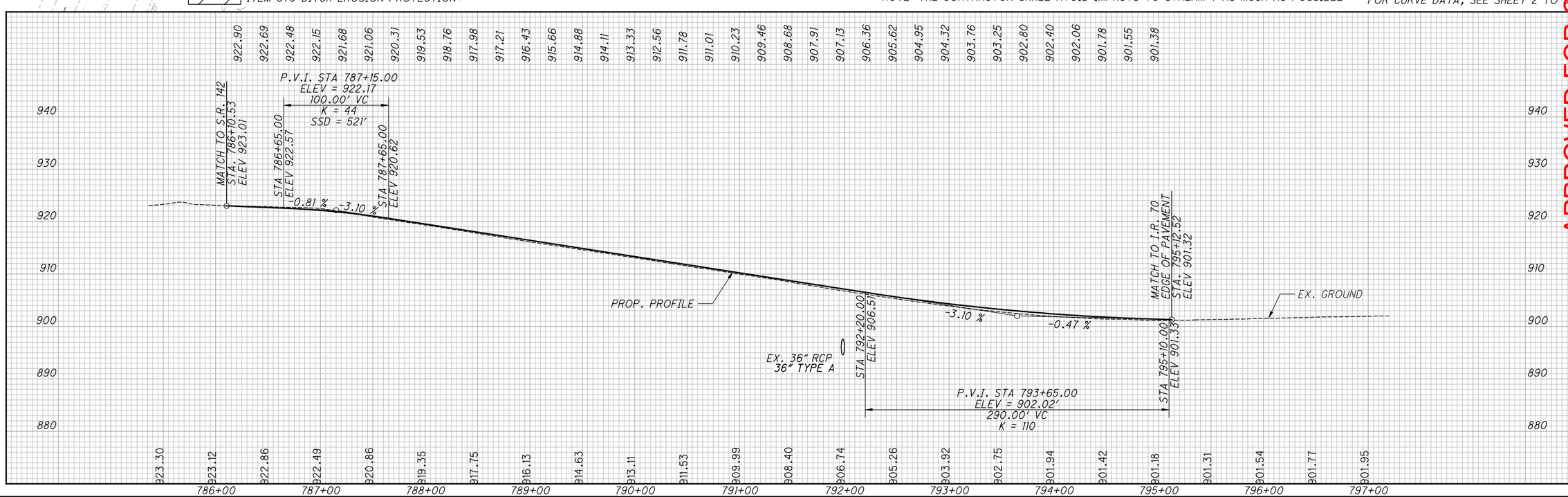
NO.	DATE	DESCRIPTION
		ISSUE RECORD



NOTE: THE CONTRACTOR SHALL AVOID IMPACTS TO STREAM 7 AS MUCH AS POSSIBLE

*7.5' WIDE UNLESS OTHERWISE NOTED
FOR CURVE DATA, SEE SHEET 2 TO 2



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE - S.R. 142 RAMP C
STA. 786+10.53 TO STA. 797+19.55

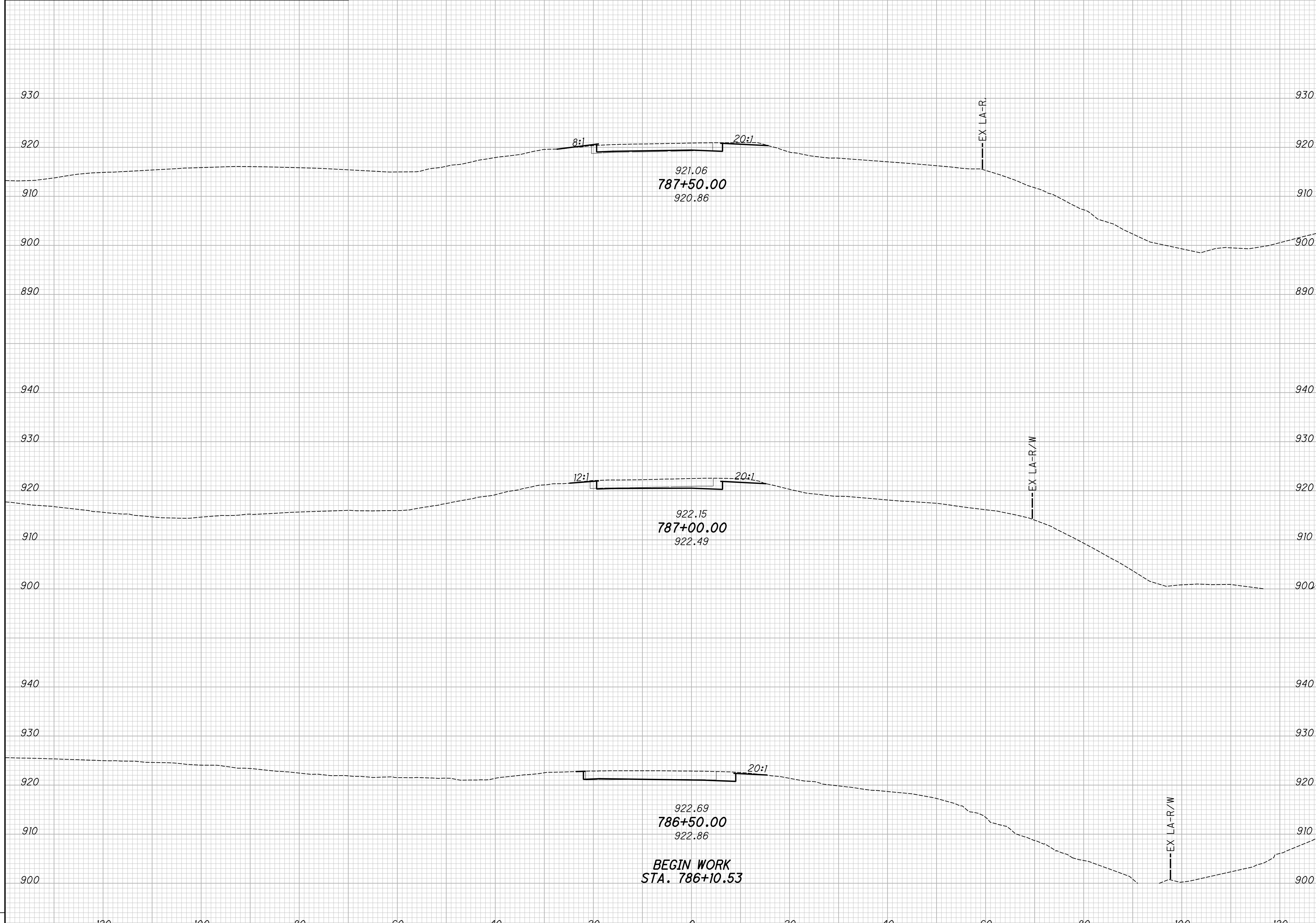
MAD-70-8.62

330
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GP331.dgn Sheet 3/20/2019 9:51:14 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C
BEGIN WORK TO STA. 787+50.00

MAD-70-8.62

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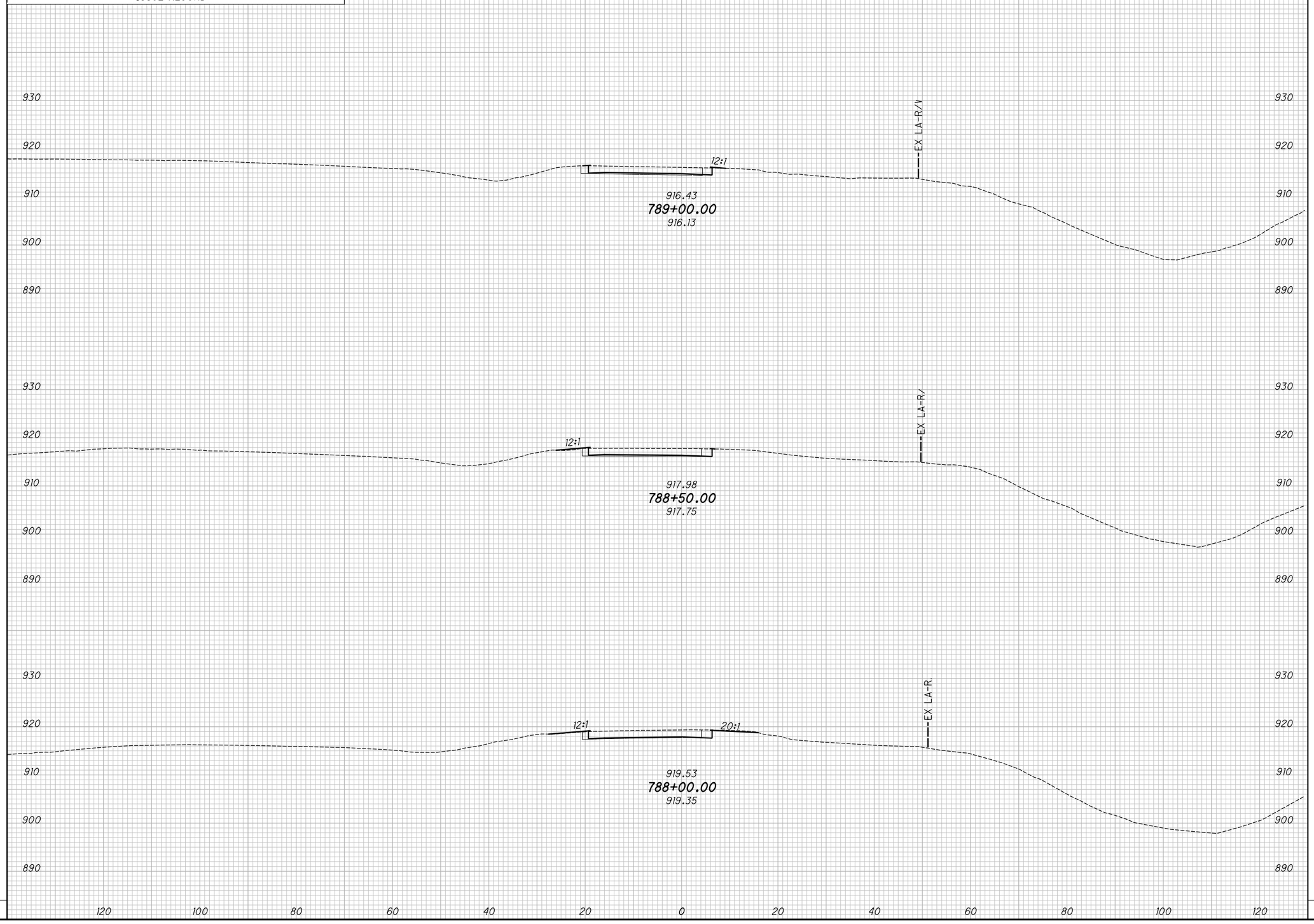
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C
STA. 788+00.00 TO STA. 789+00.00

MAD-70-8.62

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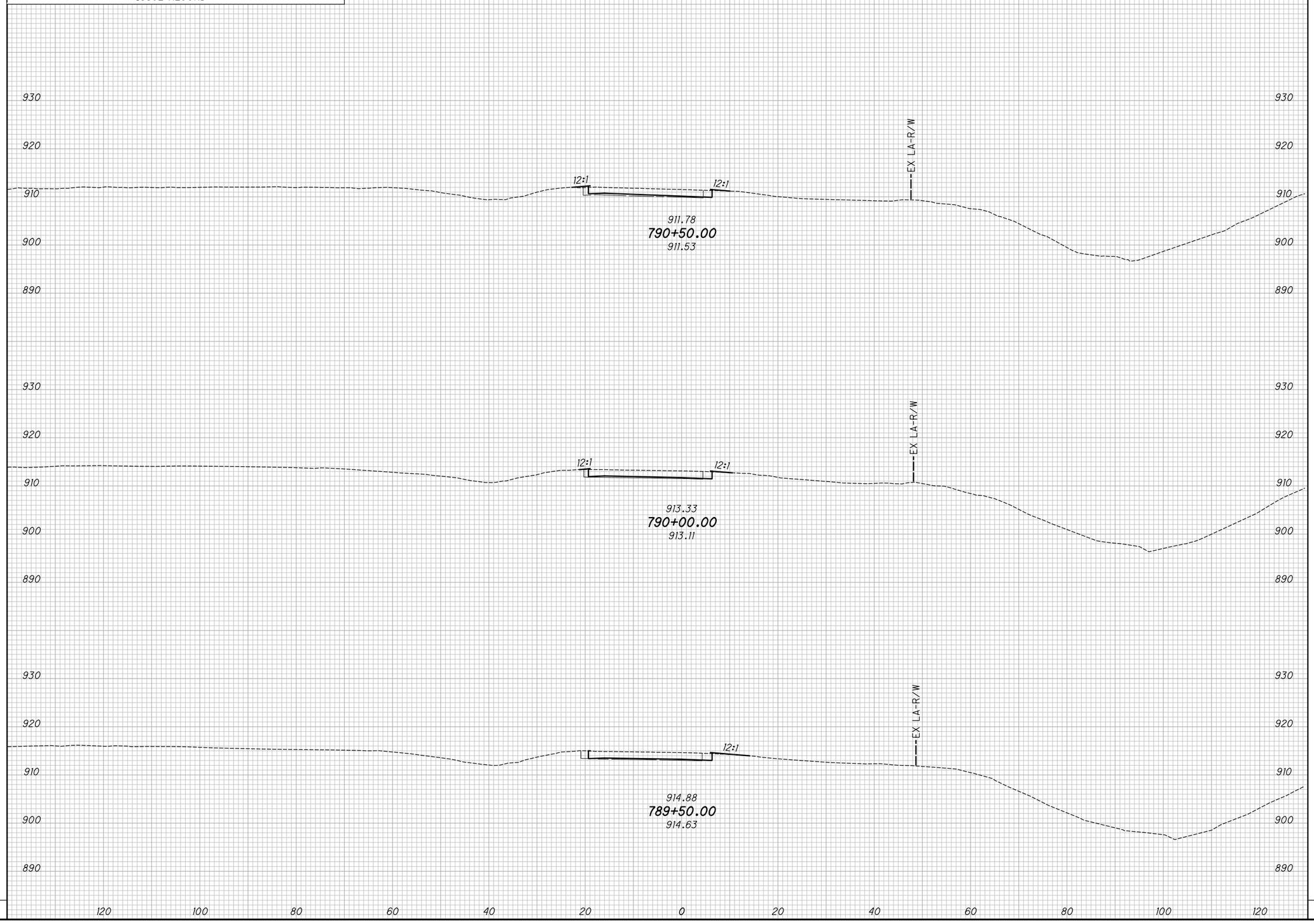
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C
STA. 789+50.00 TO STA. 790+50.00

MAD-70-8.62

333
470

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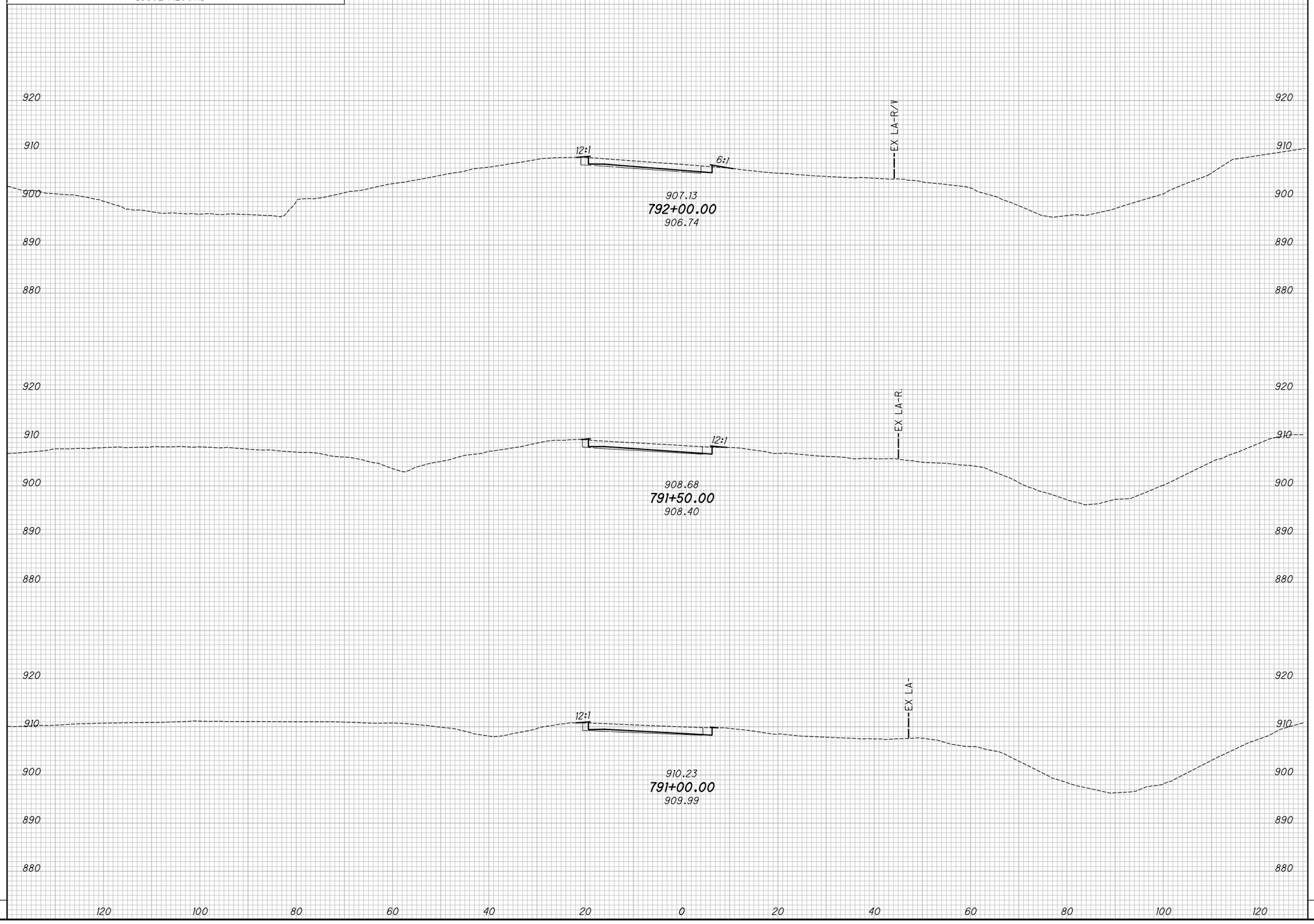
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C
STA. 791+00.00 TO STA. 792+00.00

MAD-70-8.62

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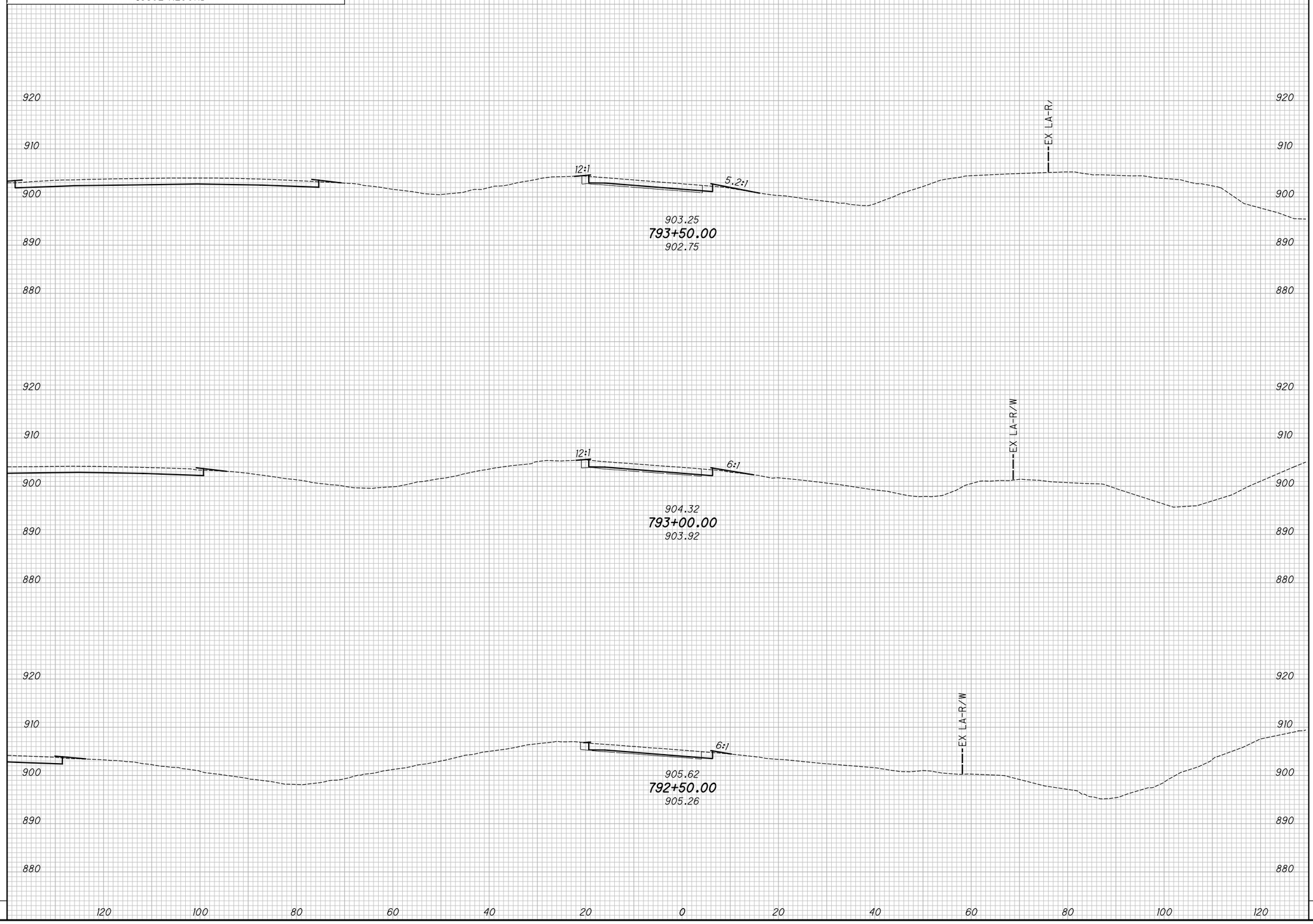
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C
STA. 792+50.00 TO STA. 793+50.00

MAD-70-8.62

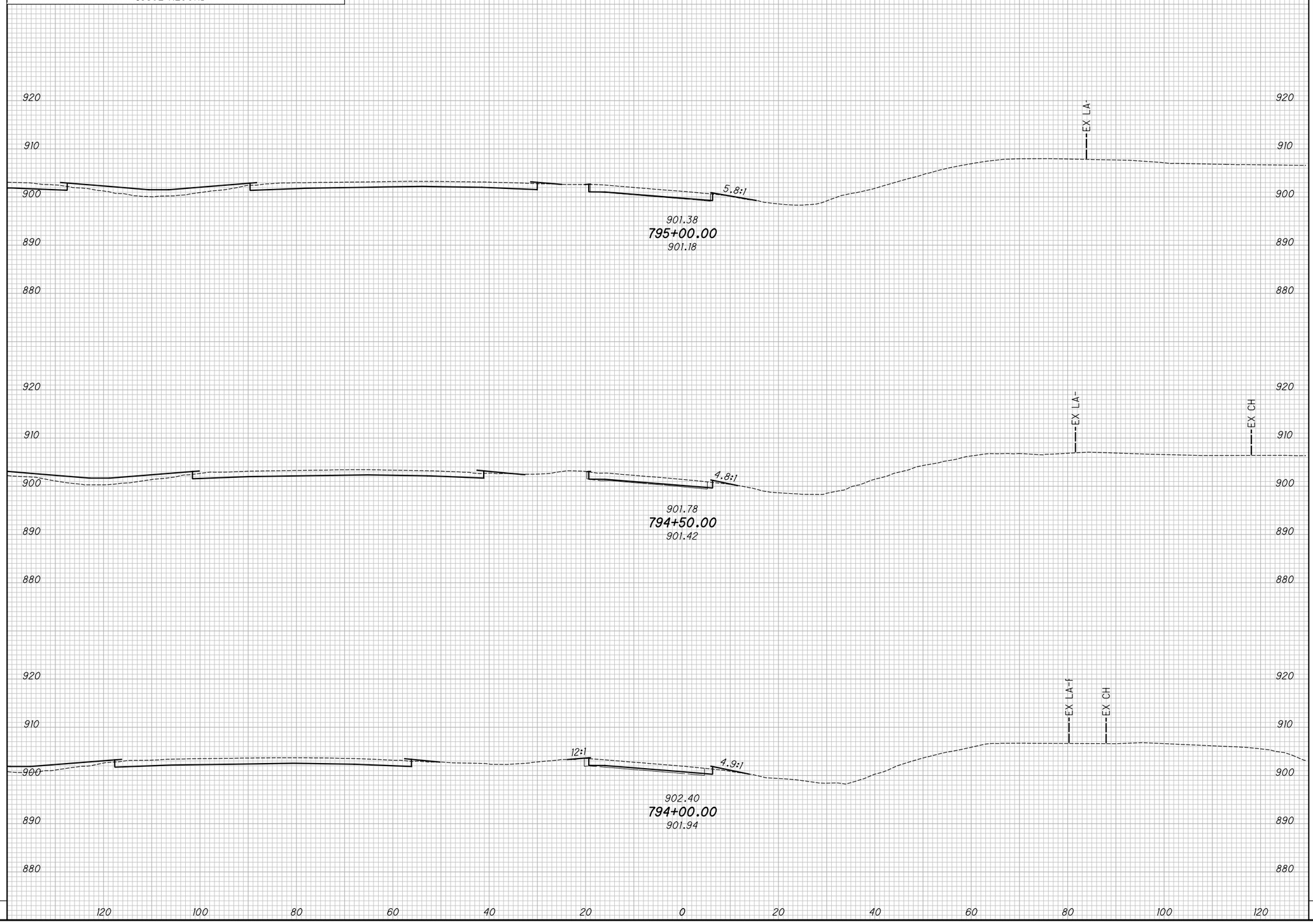
335
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_XS33L.dgn XS_SHEET_temporary_model_name_5 3/20/2019 9:51:17 AM mcornett

SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C
STA. 794+00.00 TO STA. 795+00.00

MAD-70-8.62

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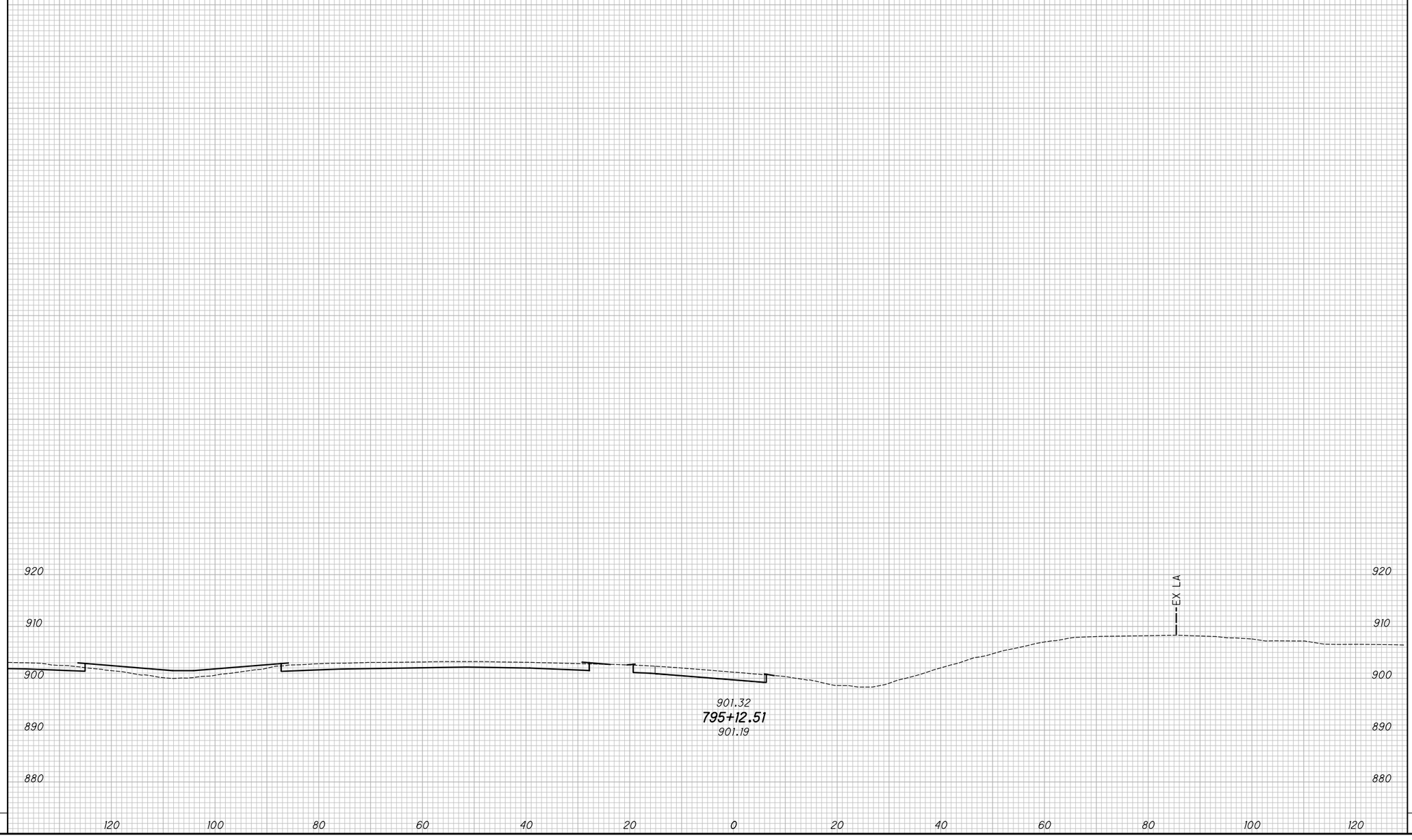
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP C

STA. 795+12.52

MAD-70-8.62

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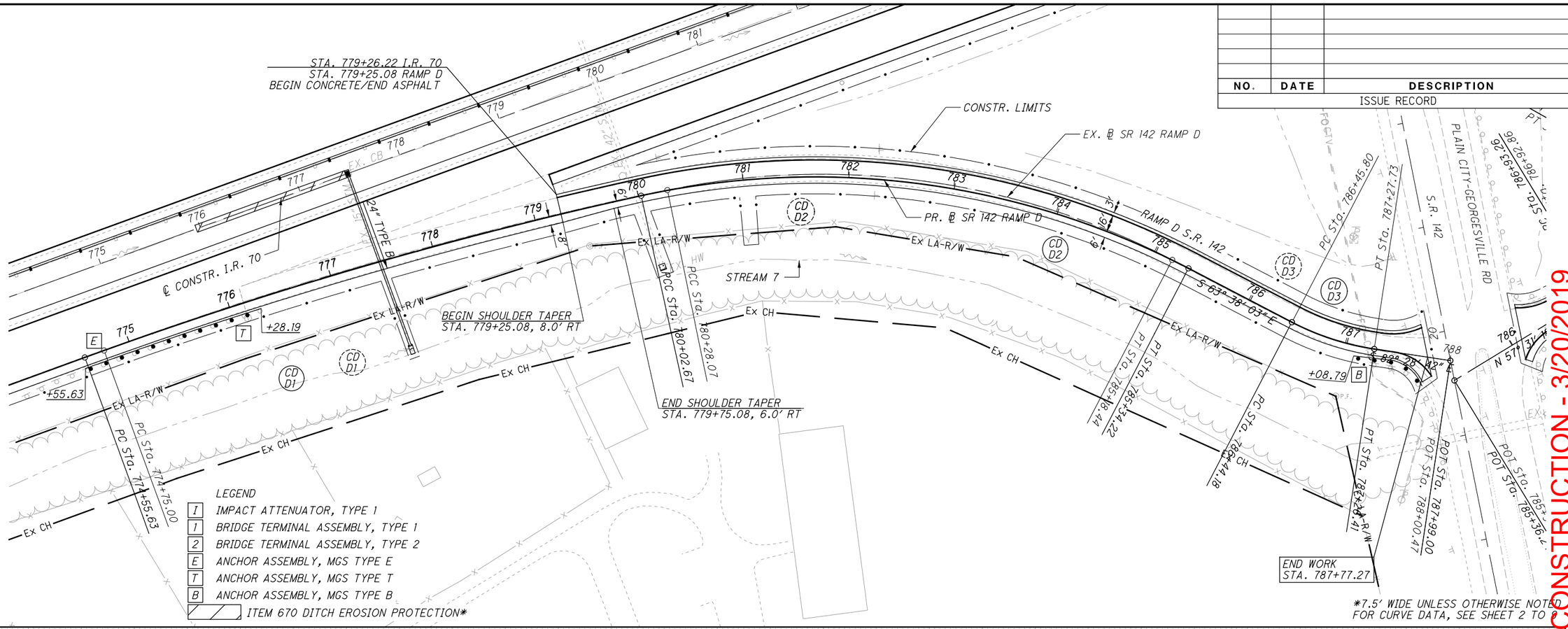
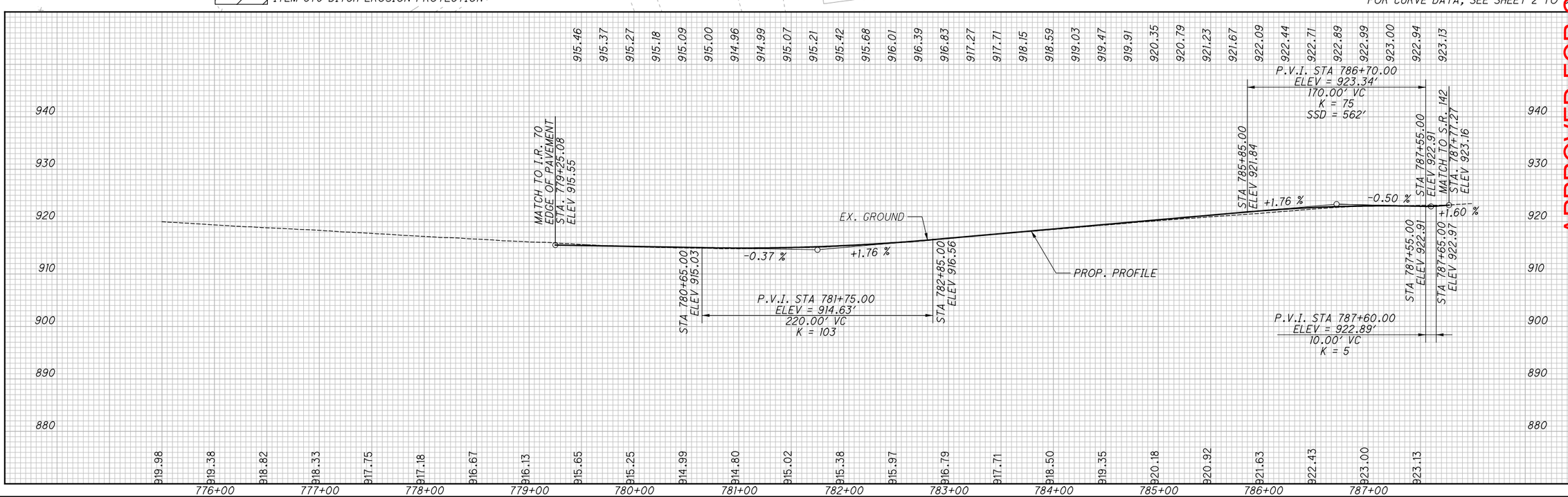
NO.	DATE	DESCRIPTION

ISSUE RECORD





APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED TDP
CHECKED MJC

PLAN AND PROFILE - S.R. 142 RAMP D
STA. 774+55.63 TO STA. 787+77.27

MAD-70-8.62

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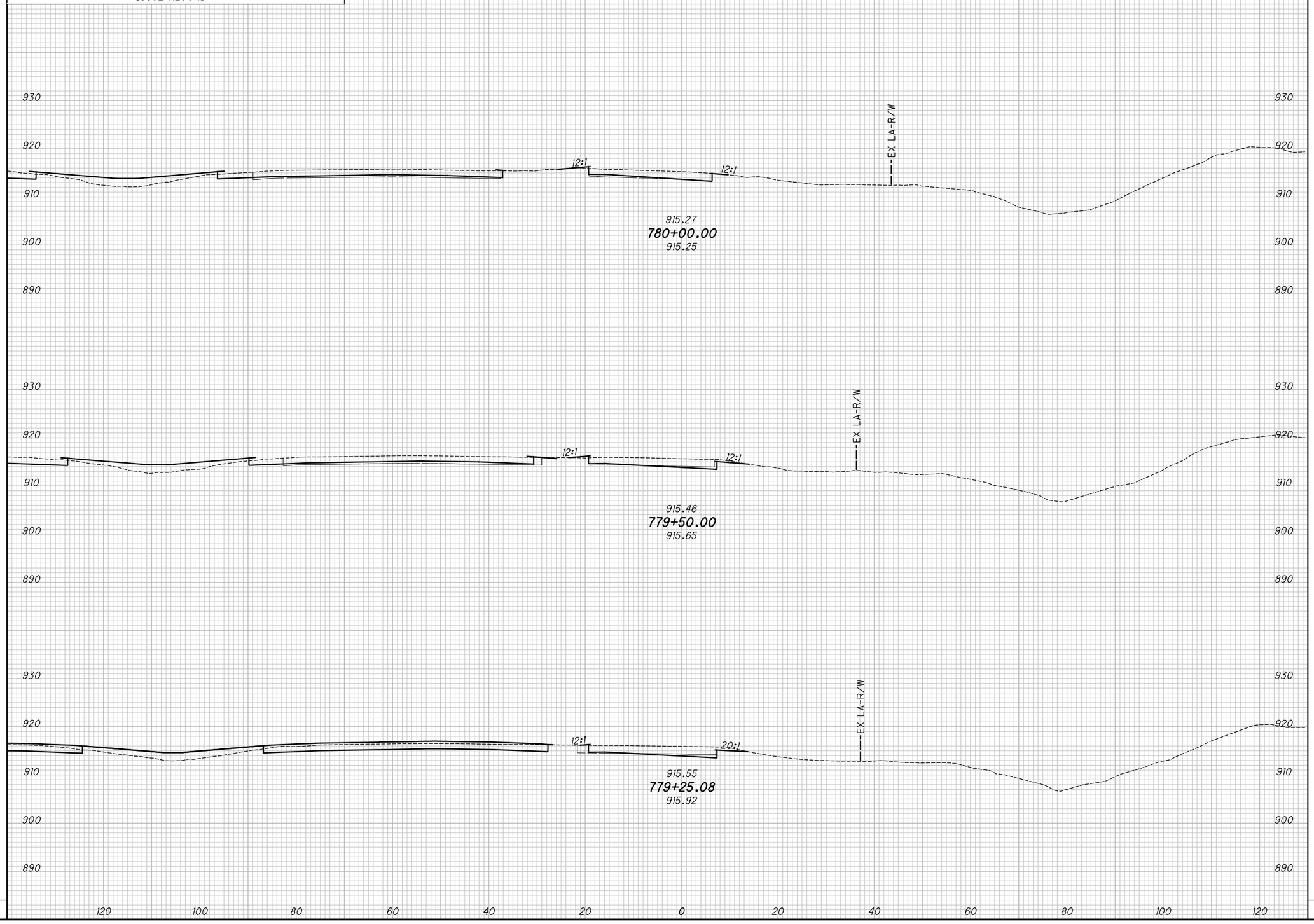
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP D
STA. 779+25.08 TO STA. 780+00.00

MAD-70-8.62

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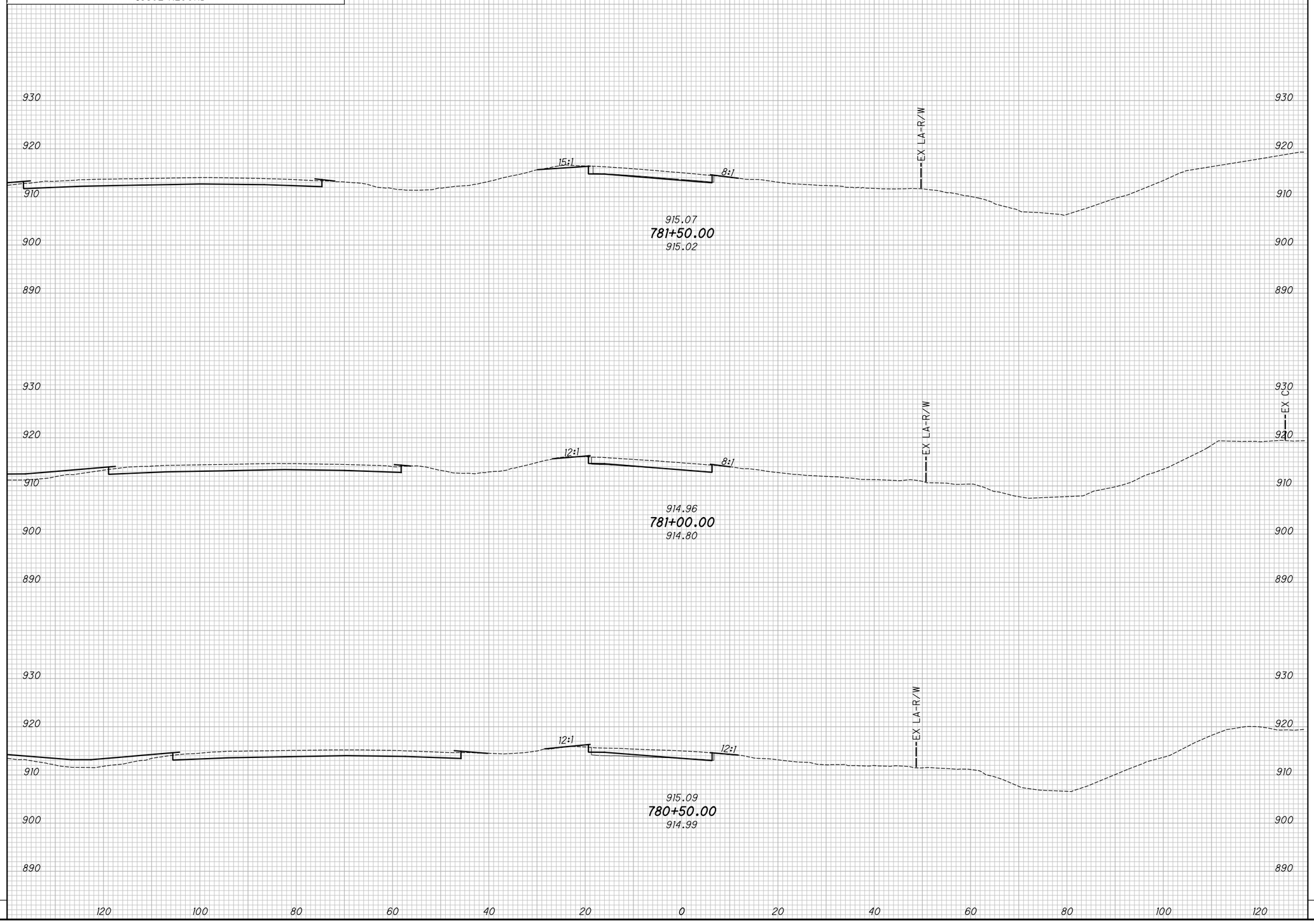
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP D
STA. 780+50.00 TO STA. 781+50.00

MAD-70-8.62

340
470

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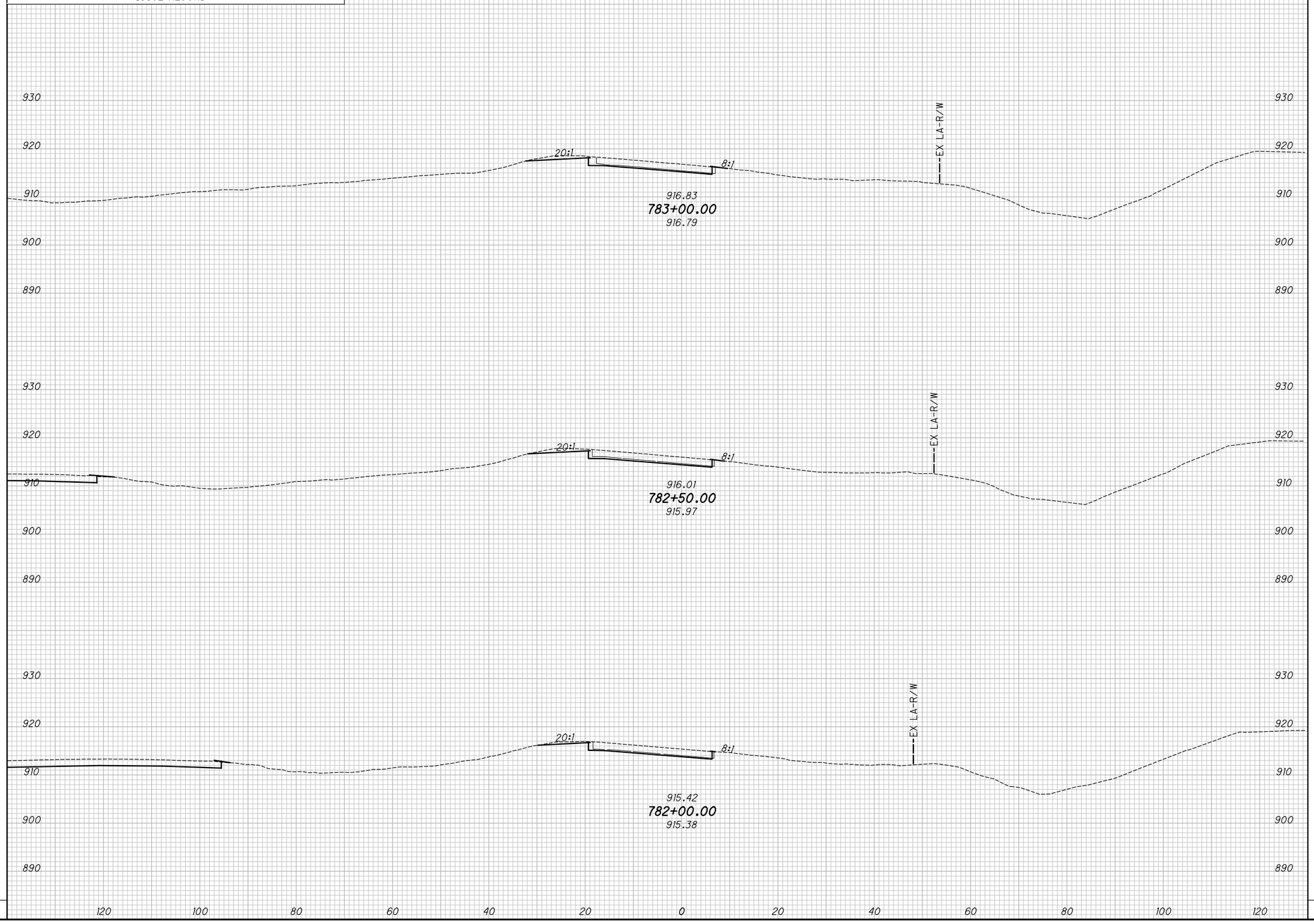
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP D
STA. 782+00.00 TO STA. 783+00.00

MAD-70-8.62

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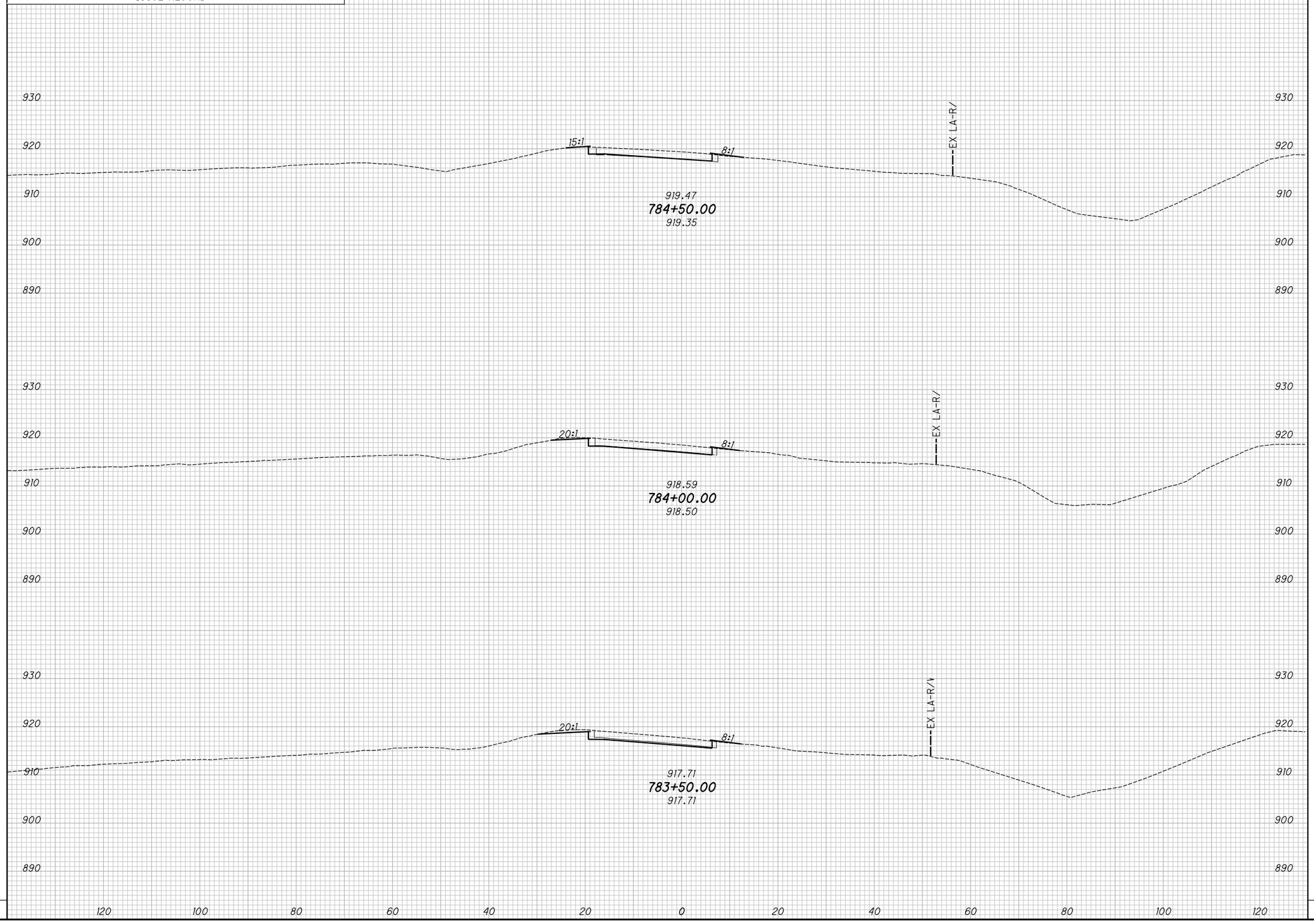
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
ISSUE RECORD		



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP D
STA. 783+50.00 TO STA. 784+50.00

MAD-70-8.62

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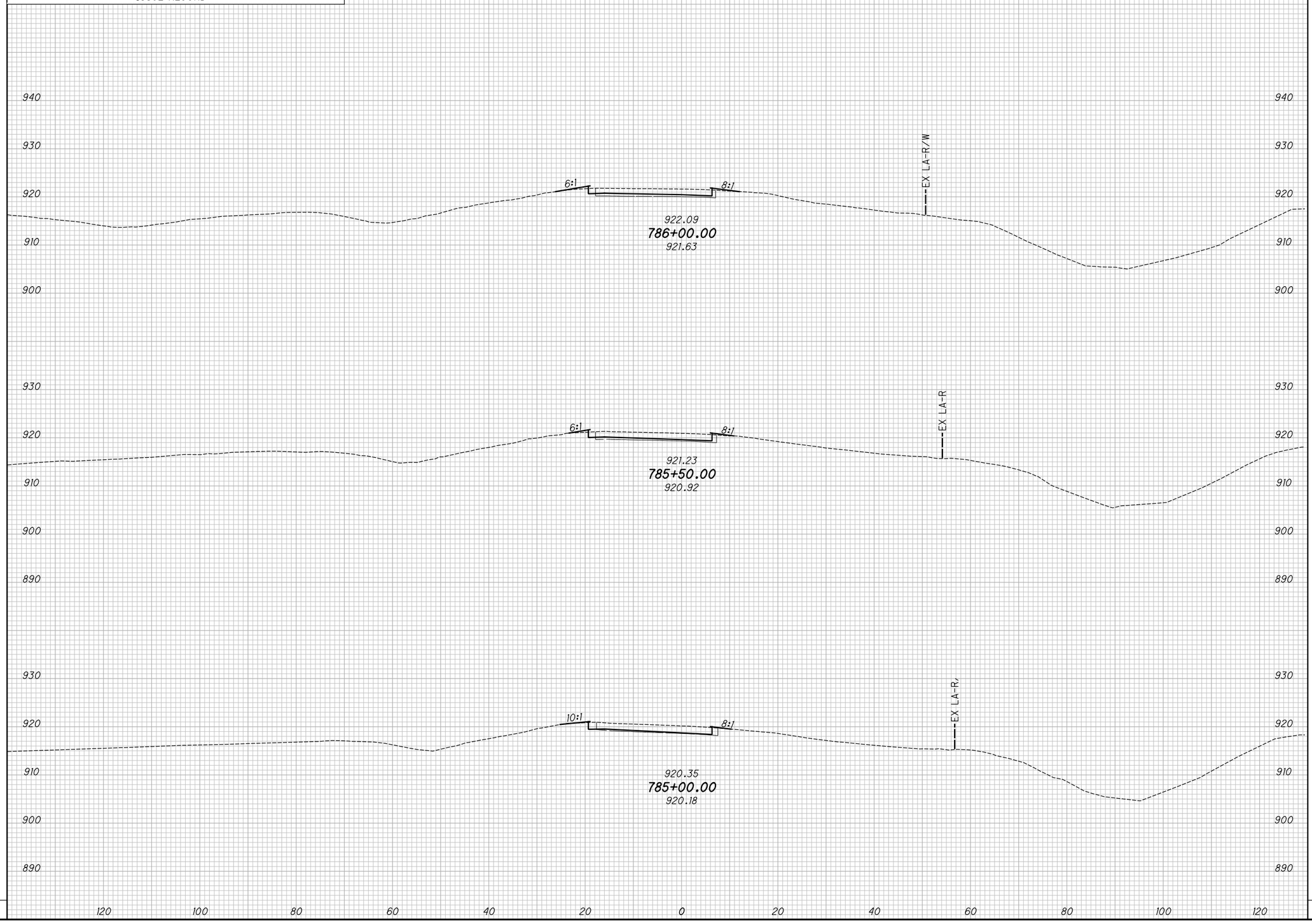
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION
		ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP D
STA. 785+00.00 TO STA. 786+00.00

MAD-70-8.62

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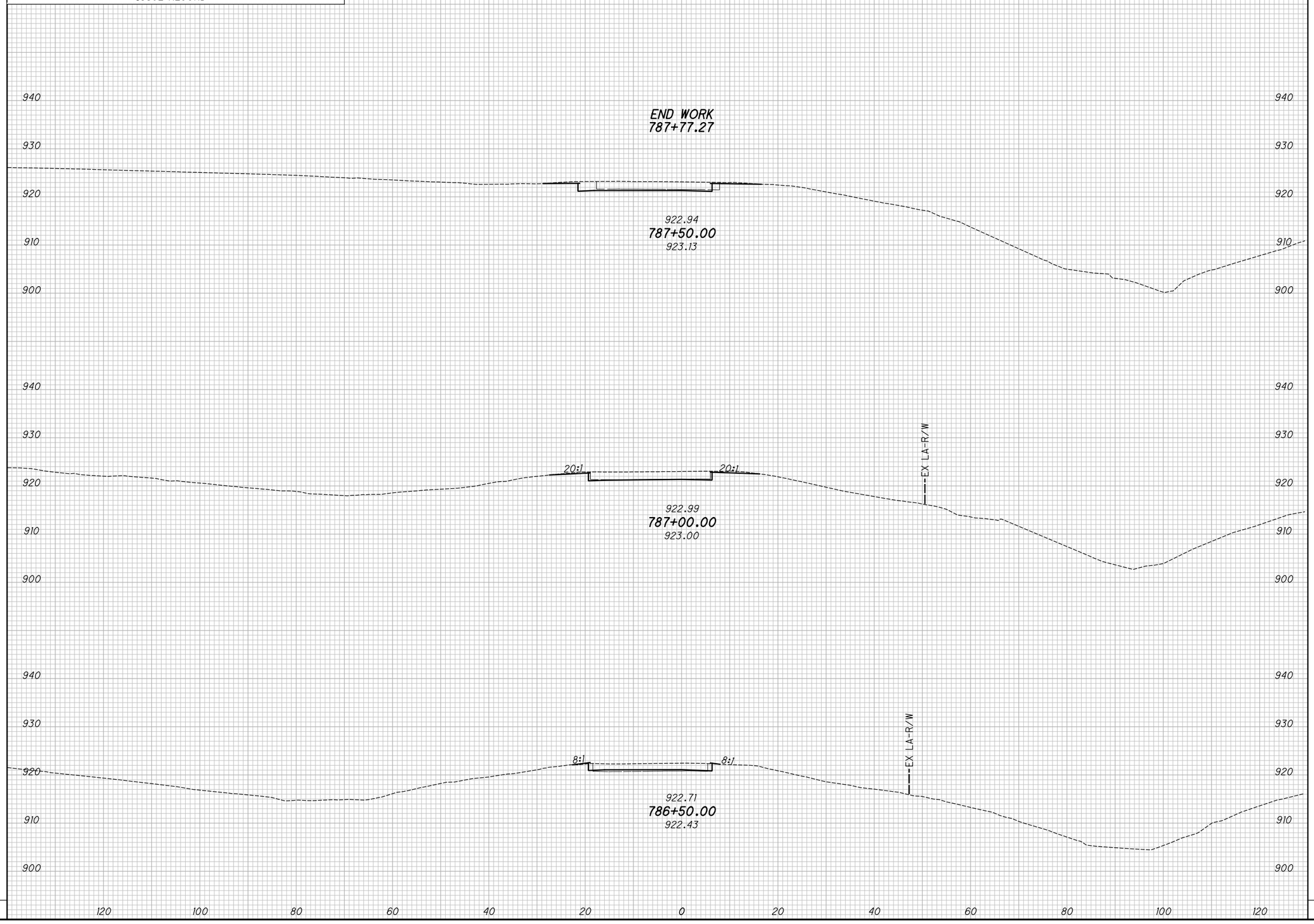
SEEDING	
END WIDTH	SQ. YDS.

NO.	DATE	DESCRIPTION

ISSUE RECORD



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

CROSS SECTIONS - S.R. 142 RAMP D
STA. 786+50.00 TO END WORK

MAD-70-8.62

344
470

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SUPERELEVATION TABLE - U.S. 42 RAMP B

P.I. STA. 464+05.34 — 6°00'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE INTERSECTION DETAILS												
					461+50.00	1011.86	21	0.016	0.38		1012.24	
					461+51.48	1011.83	24	0.016	0.38		1012.21	N.C.
					461+75.00	1011.46	24	0.022	0.53		1011.99	
					462+00.00	1011.06	24	0.029	0.69		1011.75	
					462+21.15	1010.72	24	0.034	0.82	161:1	1011.54	P.C.
					462+25.00	1010.66	24	0.035	0.84		1011.50	
					462+50.00	1010.24	24	0.041	1.00		1011.24	
					462+75.00	1009.78	24	0.048	1.15		1010.93	
					462+86.96	1009.55	24	0.051	1.23		1010.78	F.S.
FULL SUPERELEVATION												
					465+19.25	1003.23	24	0.051	1.22		1004.45	F.S.
					465+25.00	1003.07	24	0.050	1.19		1004.26	
					465+50.00	1002.40	24	0.043	1.03		1003.43	
					465+75.00	1001.77	24	0.037	0.88		1002.65	
					465+85.06	1001.52	24	0.034	0.82	161:1	1002.34	P.T.
					466+00.00	1001.17	24	0.030	0.72		1001.89	
					466+25.00	1000.62	24	0.024	0.57		1001.19	
					466+50.00	1000.10	24	0.017	0.41		1000.51	
					466+54.73	1000.01	24	0.016	0.38		1000.39	N.C.
NORMAL CROWN												

P.I. STA. 472+24.02 — 1°24'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
NORMAL CROWN												
					468+19.21	997.58	24	0.016	0.38		997.96	N.C.
					468+25.00	997.52	24	0.017	0.41		997.93	
					468+50.00	997.31	24	0.021	0.51		997.82	
					468+75.00	997.13	24	0.025	0.61		997.74	
					469+00.00	996.98	24	0.029	0.71		997.69	
					469+25.00	996.88	21	0.034	0.71		997.59	
					469+27.21	996.87	21	0.034	0.71	250:1	997.58	P.C.
					469+50.00	996.81	17	0.038	0.64		997.45	
					469+75.00	996.78	16	0.042	0.67		997.45	
					470+00.00	996.79	16	0.046	0.74		997.53	
					470+25.00	996.84	16	0.050	0.80		997.64	
					470+29.21	996.85	16	0.051	0.82		997.67	F.S.
					470+50.34	996.92	16	0.051	0.82		997.74	F.S.
MATCH INTERCHANGE DETAILS												

SUPERELEVATION TABLE - U.S. 42 RAMP C

P.I. STA. 448+69.42 — 6°00'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
1005.07	161:1	0.97	0.061	16	449+01.82	1004.1						F.S.
FOR SUPERELEVATION TRANSITIONS SEE INTERSECTION DETAILS												
1007.65	161:1	0.26	0.016	16	450+67.21	1007.39						N.C.
NORMAL CROWN												

P.I. STA. 462+55.75 — 3°30'00"

NORMAL CROWN												
1000.27		0.26	0.016	16	459+41.35	1000.01						N.C.
1000.14		0.30	0.019	16	459+50.00	999.84						
999.76		0.42	0.027	16	459+75.00	999.34						
999.39		0.55	0.034	16	460+00.00	998.84						
999.18	200:1	0.62	0.039	16	460+13.88	998.56						P.C.
999.01		0.67	0.042	16	460+25.00	998.34						
998.66		0.80	0.050	16	460+50.00	997.86						
998.35		0.92	0.058	16	460+75.00	997.43						
998.35		0.93	0.058	16	460+75.75	997.42						F.S.
FULL SUPERELEVATION												
996.36	200:1	0.93	0.058	16	464+40.40	995.43						F.S.
SEE TERMINAL DETAILS												

SUPERELEVATION TABLE - S.R. 29 RAMP A

P.I. STA. 529+09.25 — 4°00'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE TERMINAL DETAILS												
					529+53.32	977.22	16	0.063	1.01		978.23	F.S.
					529+75.00	976.98	16	0.063	1.01		977.99	F.S.
					529+78.57	976.94	16	0.063	1.01		977.95	F.S.
					530+00.00	976.71	16	0.056	0.90		977.61	
					530+25.00	976.44	16	0.048	0.78		977.22	
					530+28.70	976.41	16	0.047	0.76		977.17	P.T.
					530+50.00	976.25	16	0.041	0.65	200:1	976.90	
					530+75.00	976.12	16	0.033	0.53		976.65	
					531+00.00	976.06	16	0.025	0.40		976.46	
					531+25.00	976.07	16	0.017	0.28		976.35	
					531+28.97	976.08	16	0.016	0.26		976.34	N.C.
NORMAL CROWN												

APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED KRF
CHECKED BBD

SUPERELEVATION TABLE
U.S. 42 RAMP B, U.S. 42 RAMP C AND S.R. 29 RAMP A

MAD-70-8.62

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SUPERELEVATION TABLE - S.R. 142 RAMP A

P.I. STA. 781+99.84	7°30'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
FULL SUPERELEVATION												
					783+67.95	916.23	16	0.080	1.28	200:1	917.51	F.S.
					783+75.00	916.33	16	0.078	1.24		917.57	
					784+00.00	916.70	16	0.070	1.12		917.82	
					784+25.00	917.07	16	0.062	0.99		918.06	
					784+50.00	917.44	16	0.054	0.87		918.31	
					784+53.28	917.49	16	0.053	0.85		918.34	P.T.
					784+75.00	917.81	16	0.047	0.74		918.55	
					785+00.00	918.18	16	0.039	0.62		918.80	
					785+25.00	918.55	16	0.031	0.49		919.04	
					785+50.00	918.92	16	0.023	0.37		919.29	
					785+72.75	919.26	16	0.016	0.26		919.52	N.C.
NORMAL CROWN												

P.I. STA. 787+82.47	22°02'25"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
NORMAL CROWN												
					786+60.07	920.48	16	0.016	0.26	135:1	920.74	N.C.
					786+75.00	920.68	16	0.009	0.15		920.83	
					786+94.63	920.93	16	0.000	0.00		920.93	FLAT
					787+00.00	921.00	16	-0.002	-0.04		920.96	
					787+17.70	921.22	16	-0.011	-0.17		921.05	P.C.
					787+25.00	921.30	16	-0.014	-0.22		921.08	
					787+29.19	921.35	16	-0.016	-0.26		921.09	R.C.
					787+50.00	921.60	16	-0.016	-0.26		921.34	
					787+75.00	921.88	16	-0.016	-0.26		921.62	
					788+00.00	922.15	16	-0.016	-0.26		921.89	
SEE INTERSECTION DETAILS												

SUPERELEVATION TABLE - S.R. 142 RAMP B

P.I. STA. 789+09.41	22°55'06"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
SEE INTERSECTION DETAILS												
					789+00.00	920.89	16	-0.016	-0.26	135:1	920.63	
					789+19.34	920.54	16	-0.016	-0.26		920.28	R.C.
					789+25.00	920.44	16	-0.013	-0.21		920.23	
					789+50.00	919.92	16	-0.002	-0.03		919.89	
					789+53.90	919.84	16	0.000	0.00		919.84	FLAT
					789+75.00	919.36	16	0.010	0.16		919.52	
					789+88.46	919.03	16	0.016	0.26		919.29	N.C.
MATCH TO CURVE BELOW												

P.I. STA. 793+49.62 P.I. STA. 798+80.75	7°30'00" 1°24'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
MATCH TO CURVE ABOVE												
					789+88.46	919.03	16	0.016	0.26	200:1	919.29	N.C.
					790+00.00	918.74	16	0.020	0.31		919.05	
					790+25.00	918.07	16	0.027	0.44		918.51	
					790+50.00	917.35	16	0.035	0.56		917.91	
					790+65.26	916.88	16	0.040	0.64		917.52	P.C.
					790+75.00	916.57	16	0.043	0.69		917.26	
					791+00.00	915.75	16	0.051	0.81		916.56	
					791+25.00	914.92	16	0.059	0.94		915.86	
					791+50.00	914.10	16	0.066	1.06		915.16	
					791+75.00	913.27	16	0.074	1.19		914.46	
					791+93.26	912.67	16	0.080	1.28		913.95	F.S.
FULL SUPERELEVATION												
					795+51.70	903.33	16	0.080	1.28	250:1	904.61	F.S.
					795+75.00	902.75	16	0.074	1.19		903.94	
					796+00.00	902.44	16	0.068	1.09		903.53	
					796+09.70	902.33	16	0.066	1.05		903.38	P.C.C.
					796+25.00	902.17	16	0.062	0.99		903.16	
					796+50.00	901.94	16	0.055	0.89		902.83	
					796+67.70	901.80	16	0.051	0.82		902.62	F.S.
					796+75.00	901.75	16	0.051	0.82		902.57	
					796+86.68	901.66	16	0.051	0.82		902.48	
SEE TERMINAL DETAILS												

CALCULATED KRF
CHECKED BBD

SUPERELEVATION TABLE
S.R. 142 RAMP A AND S.R. 142 RAMP B

APPROVED FOR CONSTRUCTION - 3/20/2019

MAD-70-8.62

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SUPERELEVATION TABLE - S.R. 142 RAMP C

P.I. STA. 787+57.73	22°55′06″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
SEE INTERSECTION DETAILS												
922.25		0.00	0.000	16	786+93.26	922.25						P.C./FLAT
922.10	135:1	-0.05	-0.003	16	787+00.00	922.15						
921.44		-0.24	-0.015	16	787+25.00	921.68						
921.35		-0.26	-0.016	16	787+27.83	921.61						R.C.
920.80		-0.26	-0.016	16	787+50.00	921.06						
920.05		-0.26	-0.016	16	787+75.00	920.31						
919.39		-0.26	-0.016	16	787+96.40	919.65						R.C.
919.30		-0.23	-0.014	16	788+00.00	919.53						
918.84		-0.09	-0.005	16	788+19.43	918.93						P.T.
918.72	135:1	-0.04	-0.003	16	788+25.00	918.76						
918.57		0.00	0.000	16	788+30.96	918.57						FLAT
918.12		0.14	0.009	16	788+50.00	917.98						
917.76		0.26	0.016	16	788+65.52	917.50						N.C.
NORMAL CROWN												

P.I. STA. 793+14.45	7°30′00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
NORMAL CROWN												
914.25		0.26	0.016	16	789+78.89	913.99						N.C.
913.69		0.36	0.023	16	790+00.00	913.33						
913.05		0.49	0.030	16	790+25.00	912.56						
912.39		0.61	0.038	16	790+50.00	911.78						
911.75		0.74	0.046	16	790+75.00	911.01						
911.13	200:1	0.85	0.053	16	790+98.36	910.28						P.C.
911.09		0.86	0.054	16	791+00.00	910.23						
910.45		0.99	0.062	16	791+25.00	909.46						
909.79		1.11	0.069	16	791+50.00	908.68						
909.15		1.24	0.077	16	791+75.00	907.91						
908.92		1.28	0.080	16	791+83.69	907.64						F.S.
FULL SUPERELEVATION												

SUPERELEVATION TABLE - S.R. 142 RAMP D

P.I. STA. 777+29.56 P.I. STA. 782+79.71	1°24′00″ 7°30′00″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
SEE TERMINAL DETAILS												
916.37		0.82	0.051	16	779+25.08	915.55						
916.30		0.82	0.051	16	779+44.67	915.48						F.S.
916.30		0.84	0.052	16	779+50.00	915.46						
916.31		0.94	0.059	16	779+75.00	915.37						
916.31	250:1	1.04	0.065	16	780+00.00	915.27						
916.31		1.05	0.066	16	780+02.67	915.26						P.C.
916.32		1.14	0.071	16	780+25.00	915.18						
916.33		1.24	0.077	16	780+50.00	915.09						
916.33		1.28	0.080	16	780+60.67	915.05						F.S.
FULL SUPERELEVATION												
919.98		1.28	0.080	16	784+06.22	918.70						F.S.
920.53		1.06	0.066	16	784+50.00	919.47						
920.85		0.94	0.059	16	784+75.00	919.91						
921.16		0.81	0.051	16	785+00.00	920.35						
921.48		0.69	0.043	16	785+25.00	920.79						
921.59	200:1	0.64	0.040	16	785+34.22	920.95						P.C.
921.79		0.56	0.035	16	785+50.00	921.23						
922.11		0.44	0.027	16	785+75.00	921.67						
922.40		0.31	0.019	16	786+00.00	922.09						
922.52		0.26	0.016	16	786+11.02	922.26						N.C.
NORMAL CROWN - MATCH TO CURVE BELOW												

P.I. 782+79.71	22°55′06″

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
NORMAL CROWN - MATCH TO CURVE ABOVE												
922.52		0.26	0.016	16	786+11.02	922.26						N.C.
922.59		0.15	0.010	16	786+25.00	922.44						
922.66	135:1	0.01	0.001	16	786+44.18	922.65						P.C.
922.66		0.00	0.000	16	786+45.58	922.66						FLAT
922.68		-0.03	-0.002	16	786+50.00	922.71						
922.58		-0.26	-0.016	16	786+80.14	922.84						R.C.
922.73		-0.26	-0.016	16	787+00.00	922.99						
SEE INTERSECTION DETAILS												

CALCULATED KRF
CHECKED BBD

APPROVED FOR CONSTRUCTION - 3/20/2019

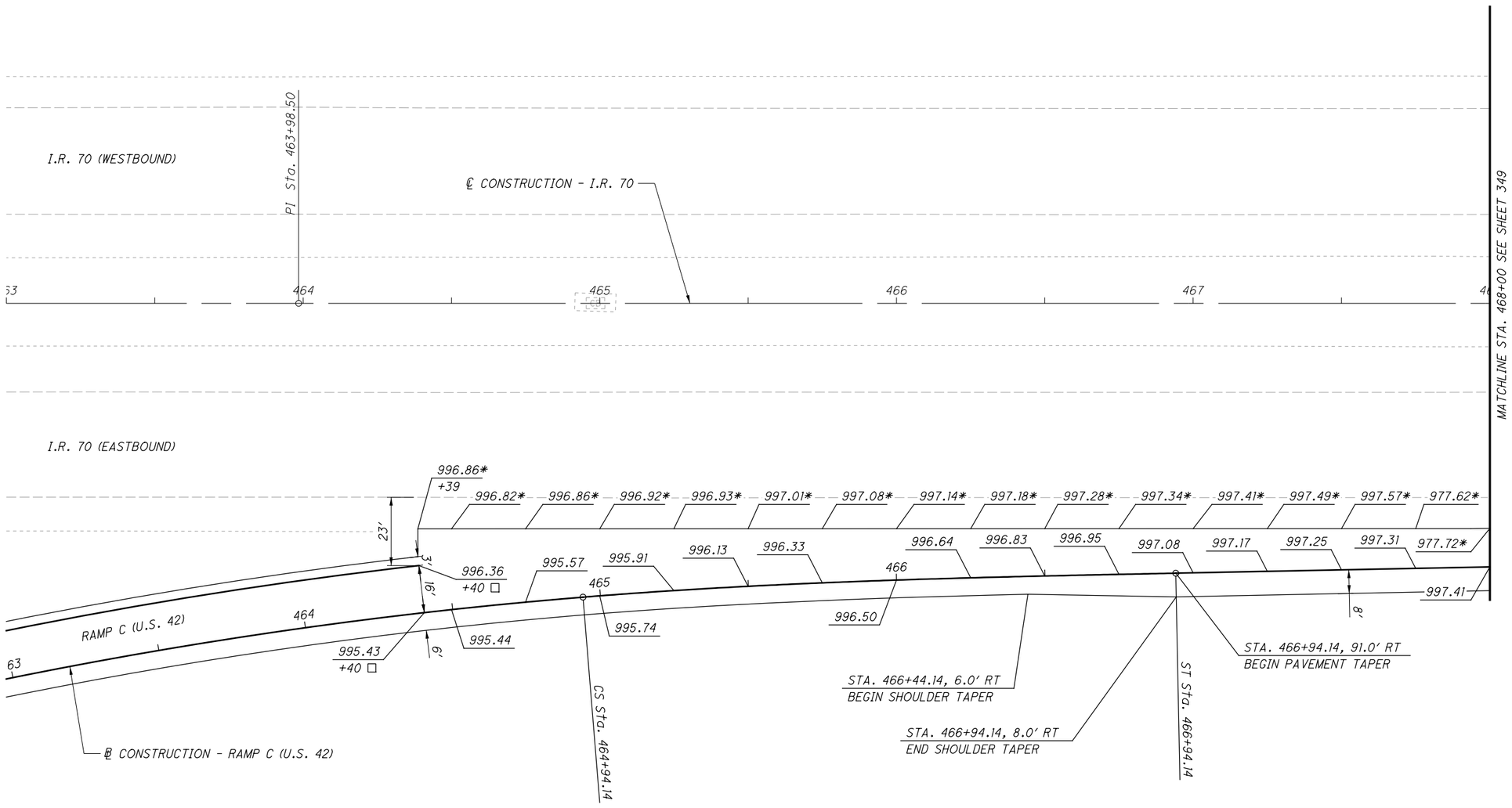
SUPERELEVATION TABLE
S.R. 142 RAMP C AND S.R. 142 RAMP D

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GE003.dgn Sheet 3/20/2019 9:51:31 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25′ INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



* EXISTING ELEVATION

□ INDICATES RAMP STATIONING

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 463+00 TO STA. 468+00

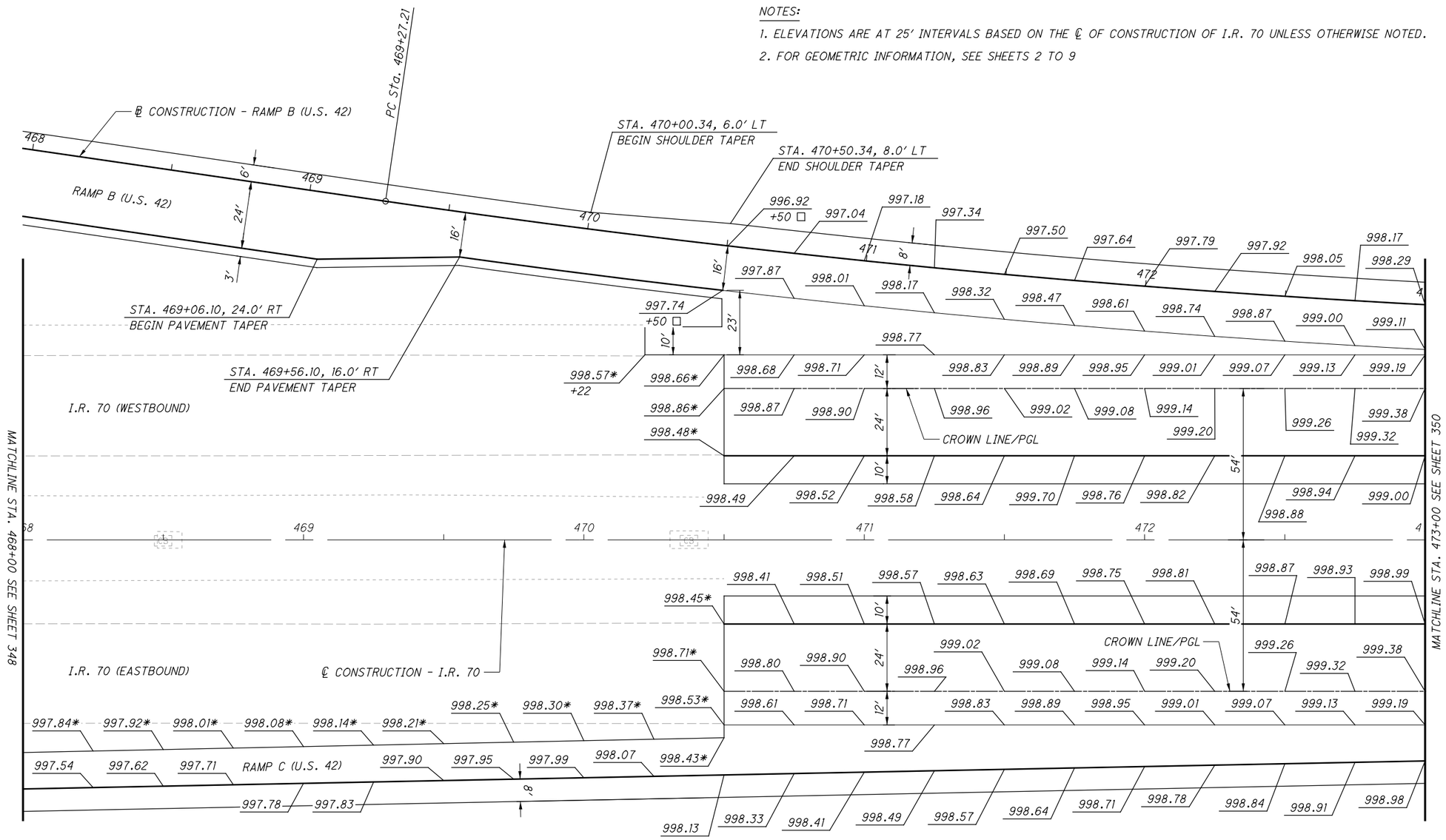
MAD-70-8.62

348
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_G1001.dgn Sheet 3/20/2019 9:51:33 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



* EXISTING ELEVATION

□ INDICATES RAMP STATIONING

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 468+00 TO STA. 473+00

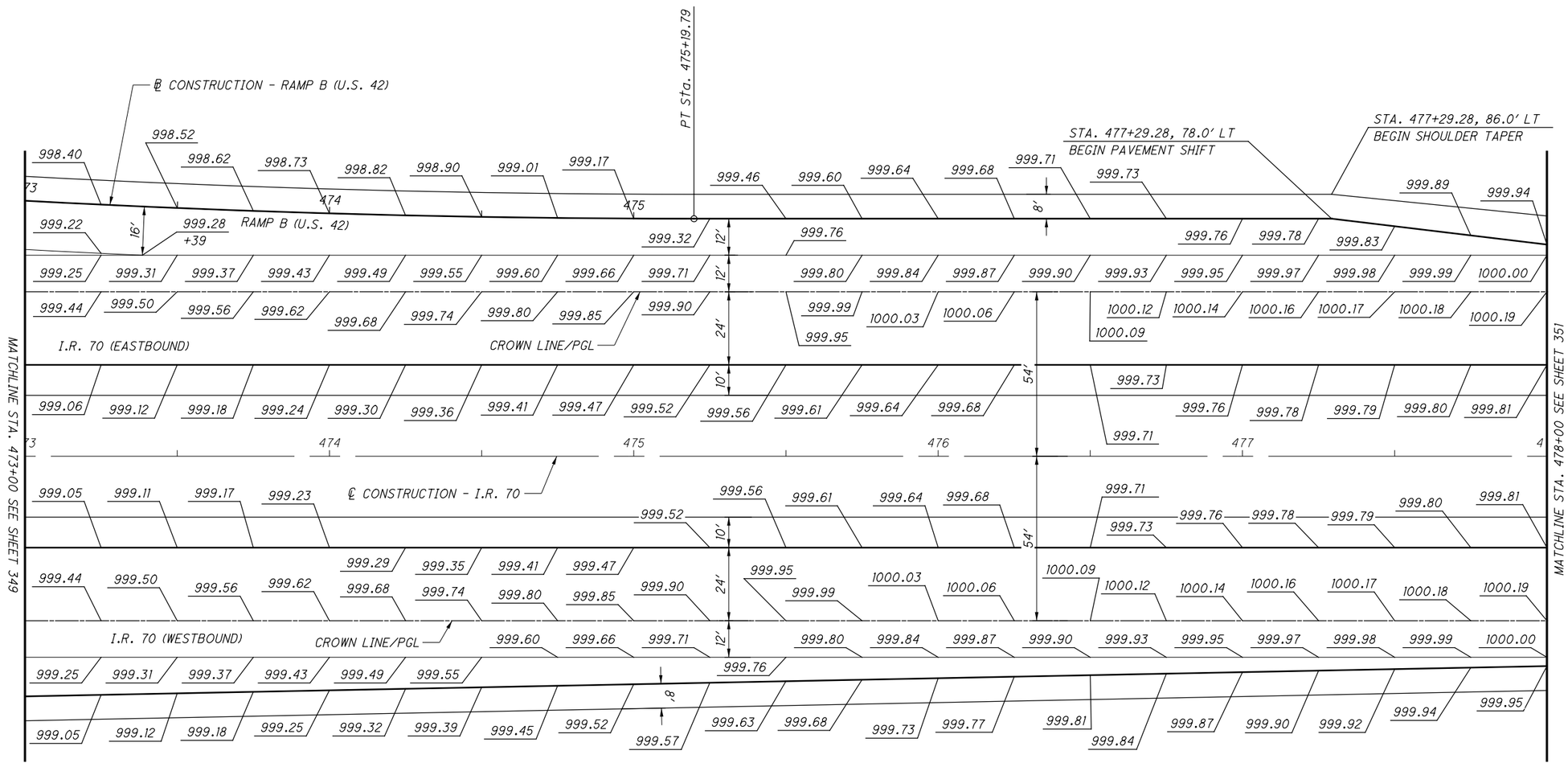
MAD-70-8.62

349
470

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GI002.dgn Sheet 3/20/2019 9:51:34 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 473+00 TO STA. 478+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLL
CHECKED MJC

MAD-70-8.62

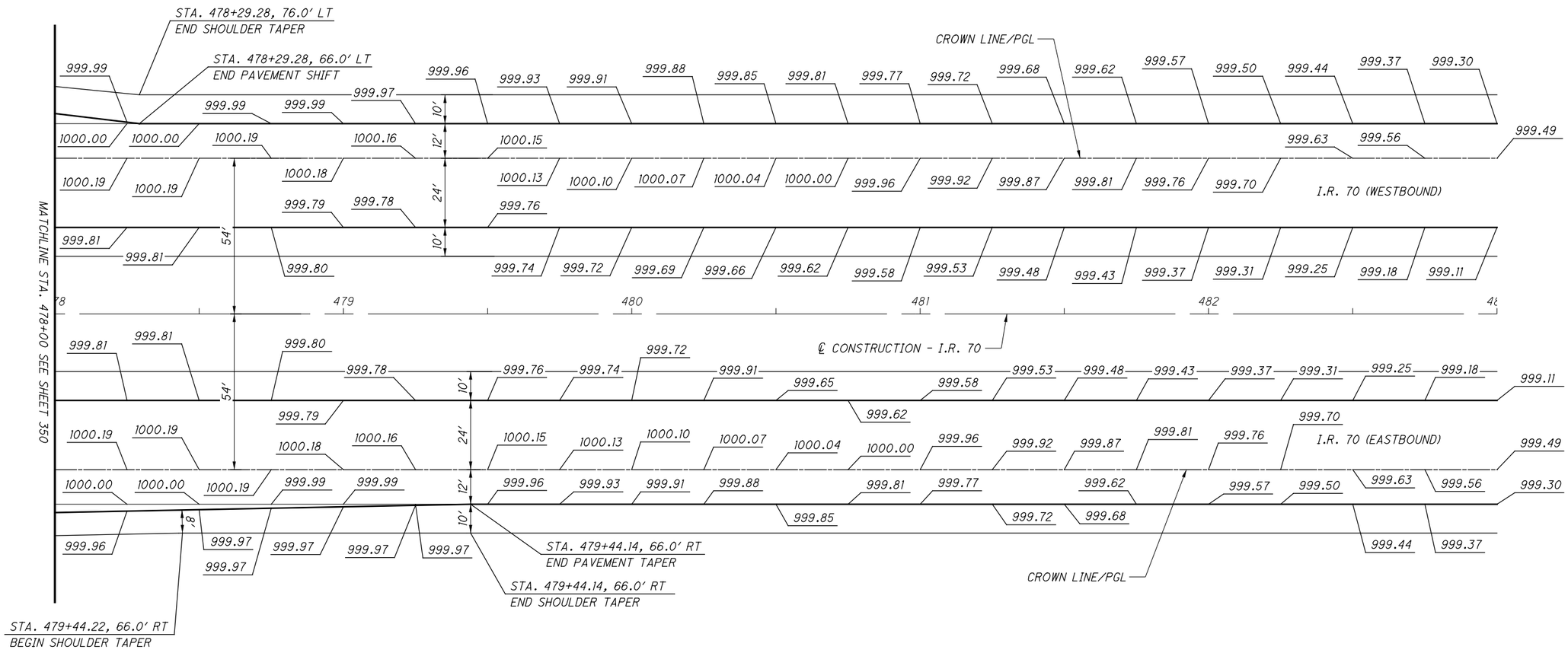
NO.	DATE	DESCRIPTION

ISSUE RECORD

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI003.dgn Sheet 3/20/2019 9:51:36 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

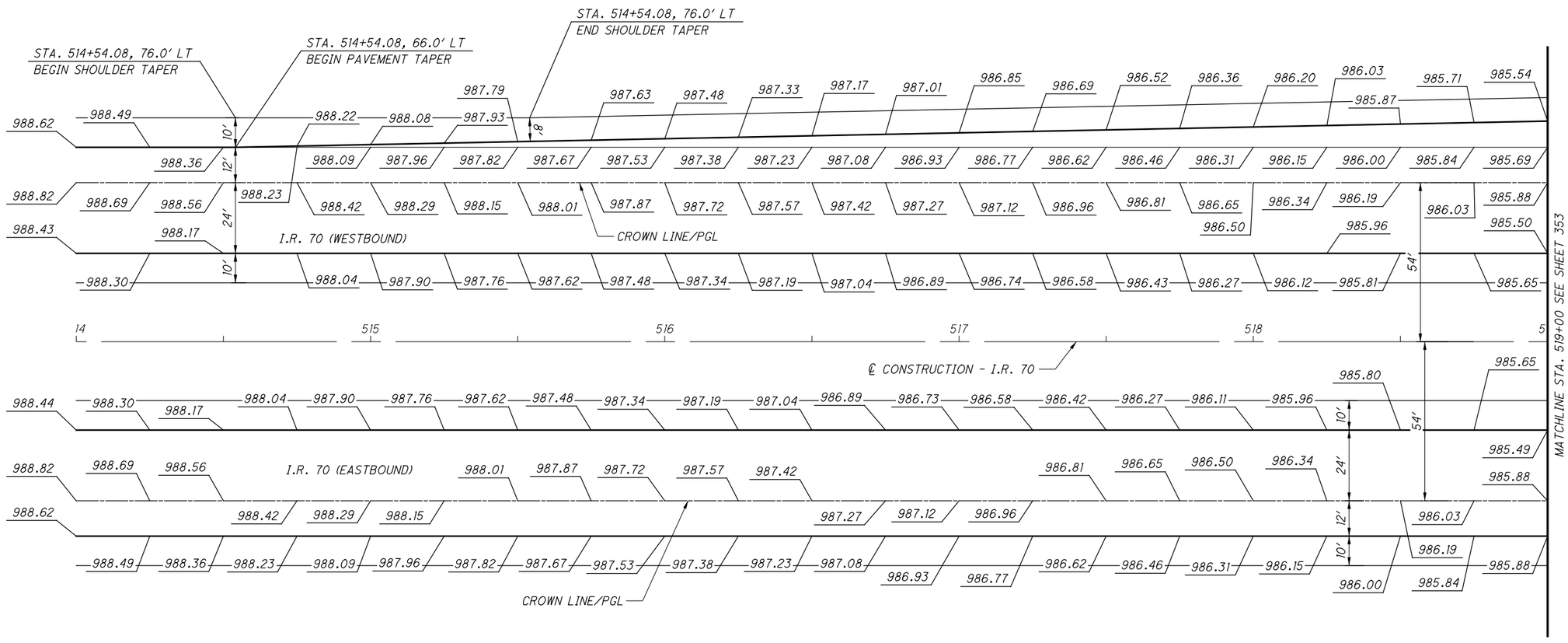
TERMINAL DETAIL - I.R. 70
STA. 478+00 TO STA. 483+00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GI004.dgn Sheet 3/20/2019 9:51:37 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 514+00 TO STA. 519+00

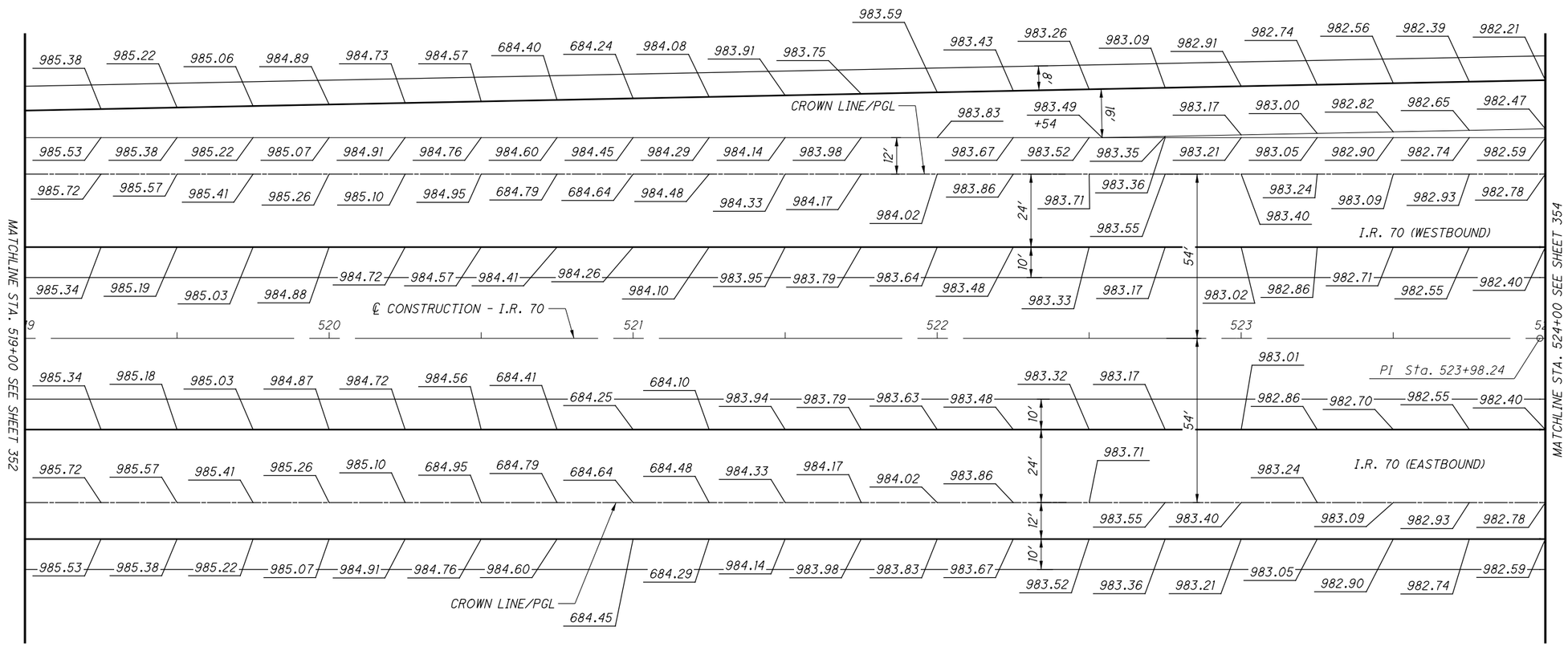
MAD-70-8.62

352
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI005.dgn Sheet 3/20/2019 9:51:38 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

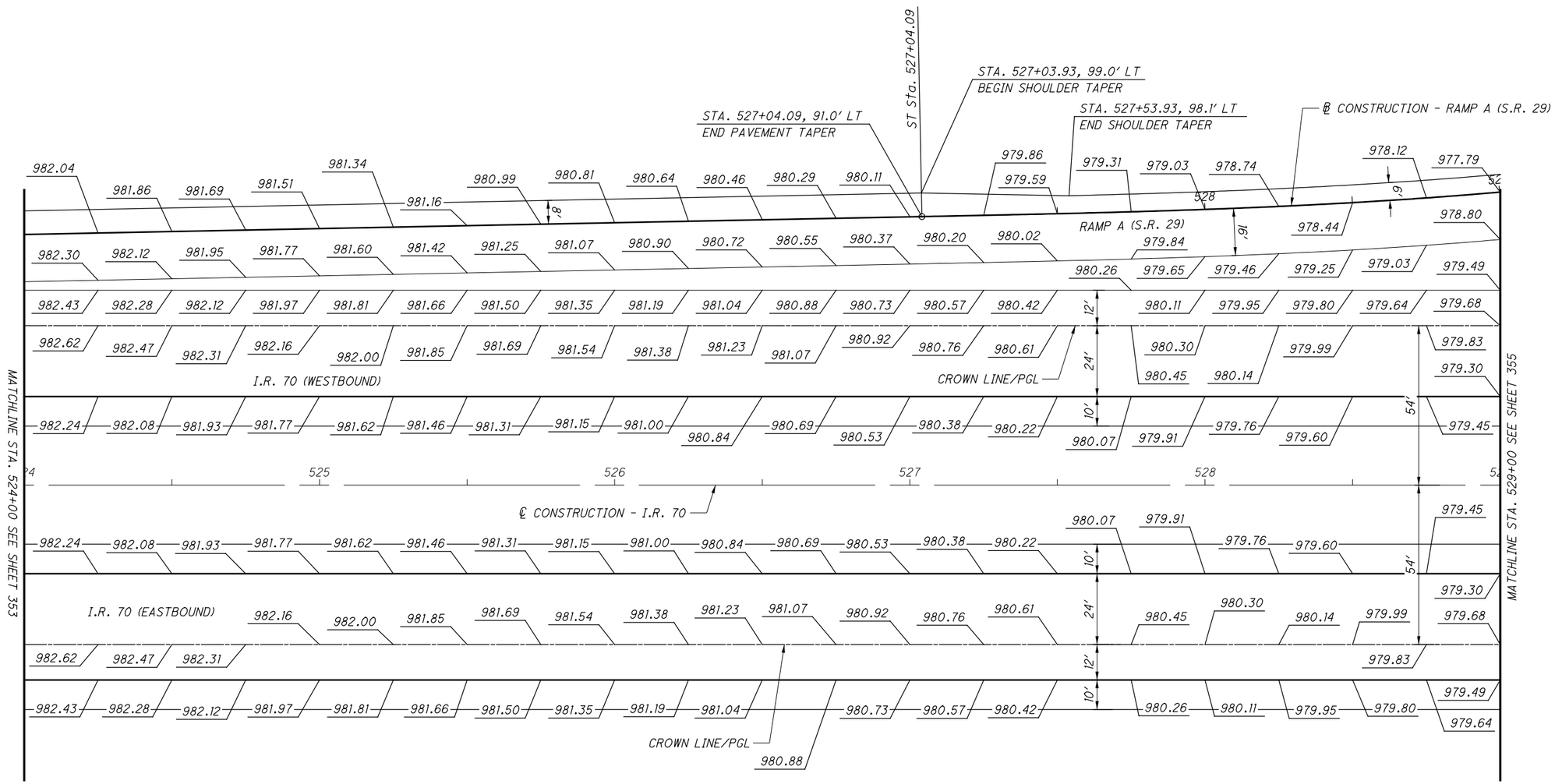
TERMINAL DETAIL - I.R. 70
STA. 519+00 TO STA. 524+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI006.dgn Sheet 3/20/2019 9:51:40 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



APPROVED FOR CONSTRUCTION - 3/20/2019

NO.	DATE	DESCRIPTION

ISSUE RECORD

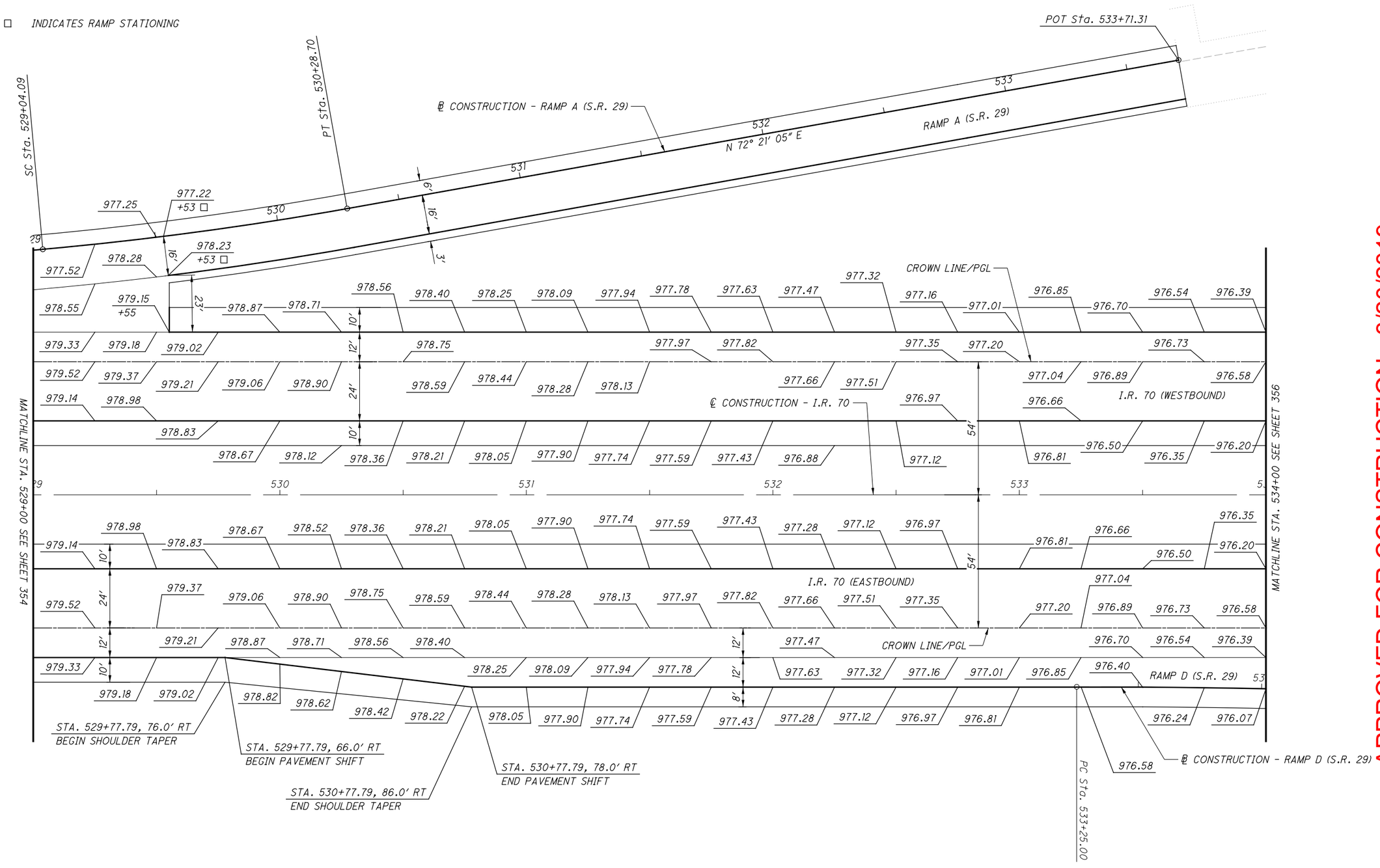
HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

TERMINAL DETAIL - I.R. 70
STA. 524+00 TO STA. 529+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI007.dgn Sheet 3/20/2019 9:51:41 AM mcornett



NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

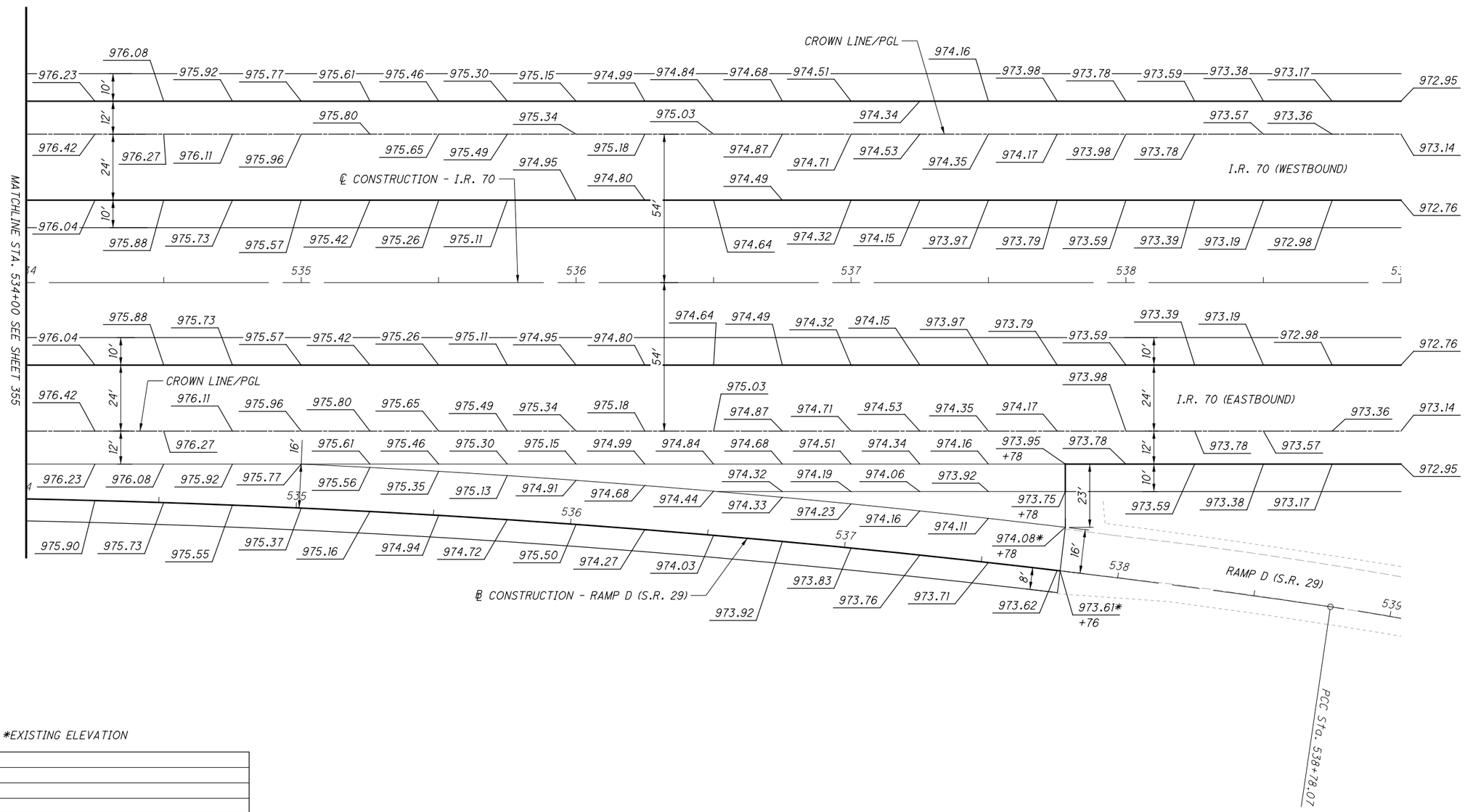
TERMINAL DETAIL - I.R. 70
STA. 529+00 TO STA. 534+00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GI008.dgn Sheet 3/20/2019 9:51:43 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



*EXISTING ELEVATION

NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET
0 10 20 40

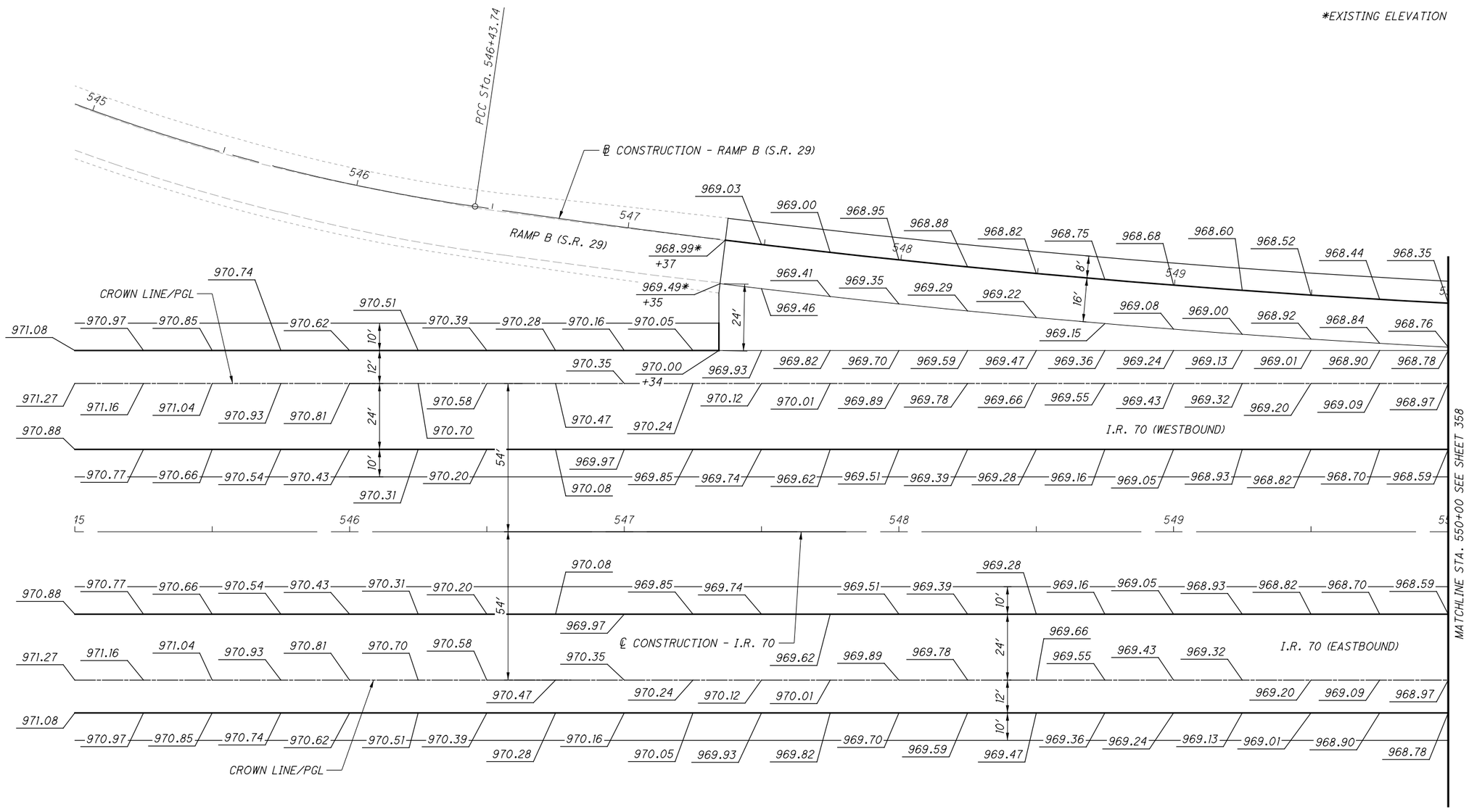
CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 534+00 TO STA. 539+00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_GI009.dgn Sheet 3/20/2019 9:51:44 AM mcornett



NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

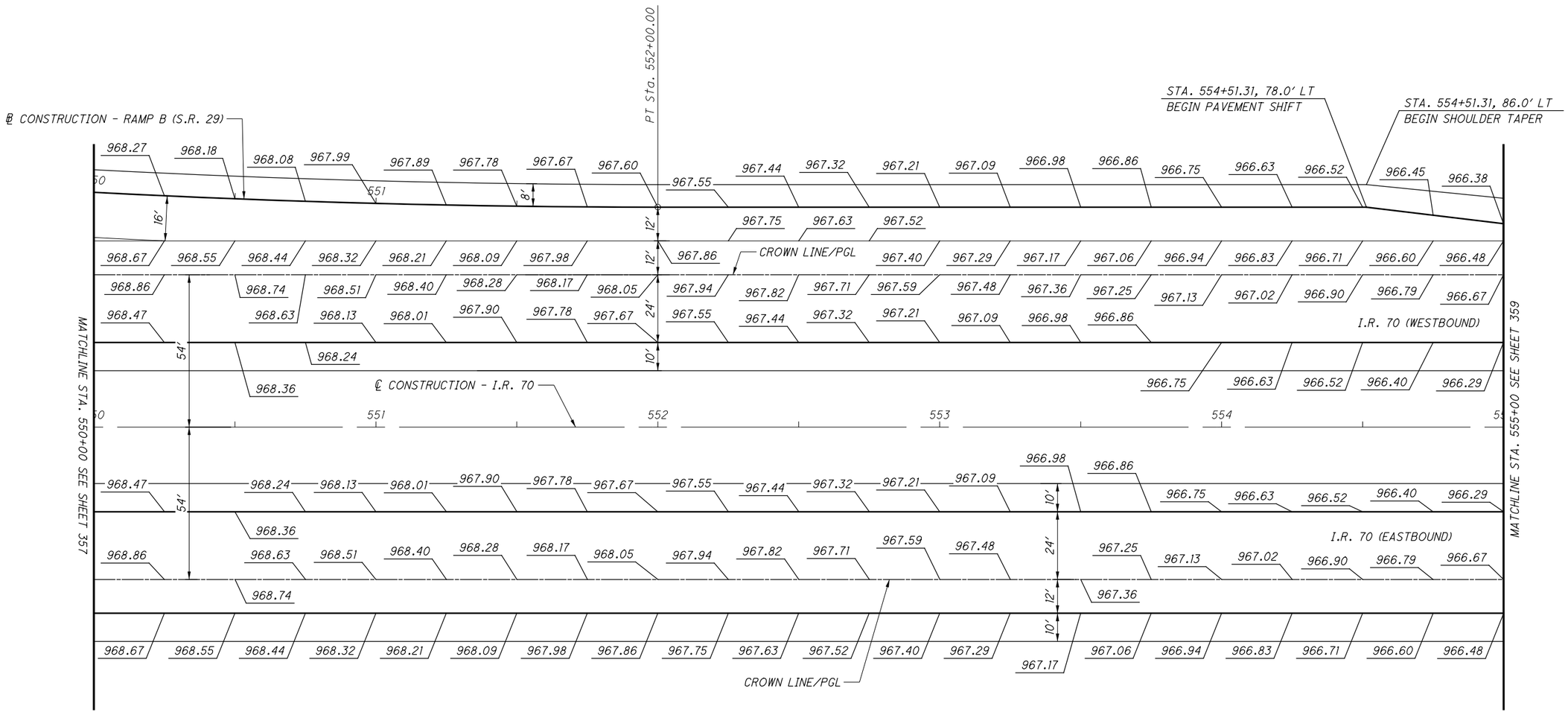
TERMINAL DETAIL - I.R. 70
STA. 545+00 TO STA. 550+00

MAD-70-8.62

P:\107109_MAD-70-8.62B\Design\Roadway\Sheets\107109_G1010.dgn Sheet 3/20/2019 9:51:46 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

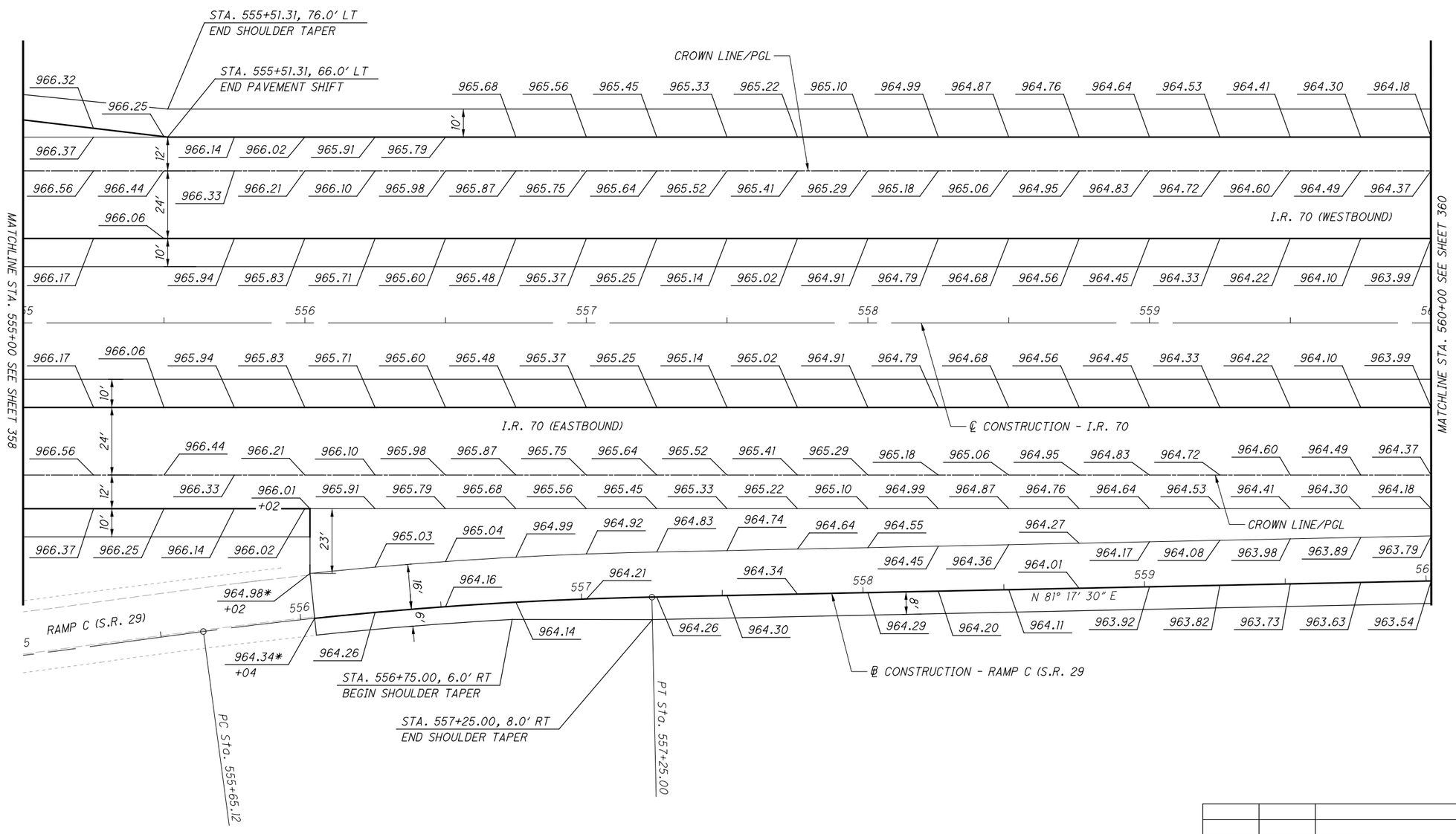
TERMINAL DETAIL - I.R. 70
STA. 550+00 TO STA. 555+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_G101.dgn Sheet 3/20/2019 9:51:47 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



*EXISTING ELEVATION

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

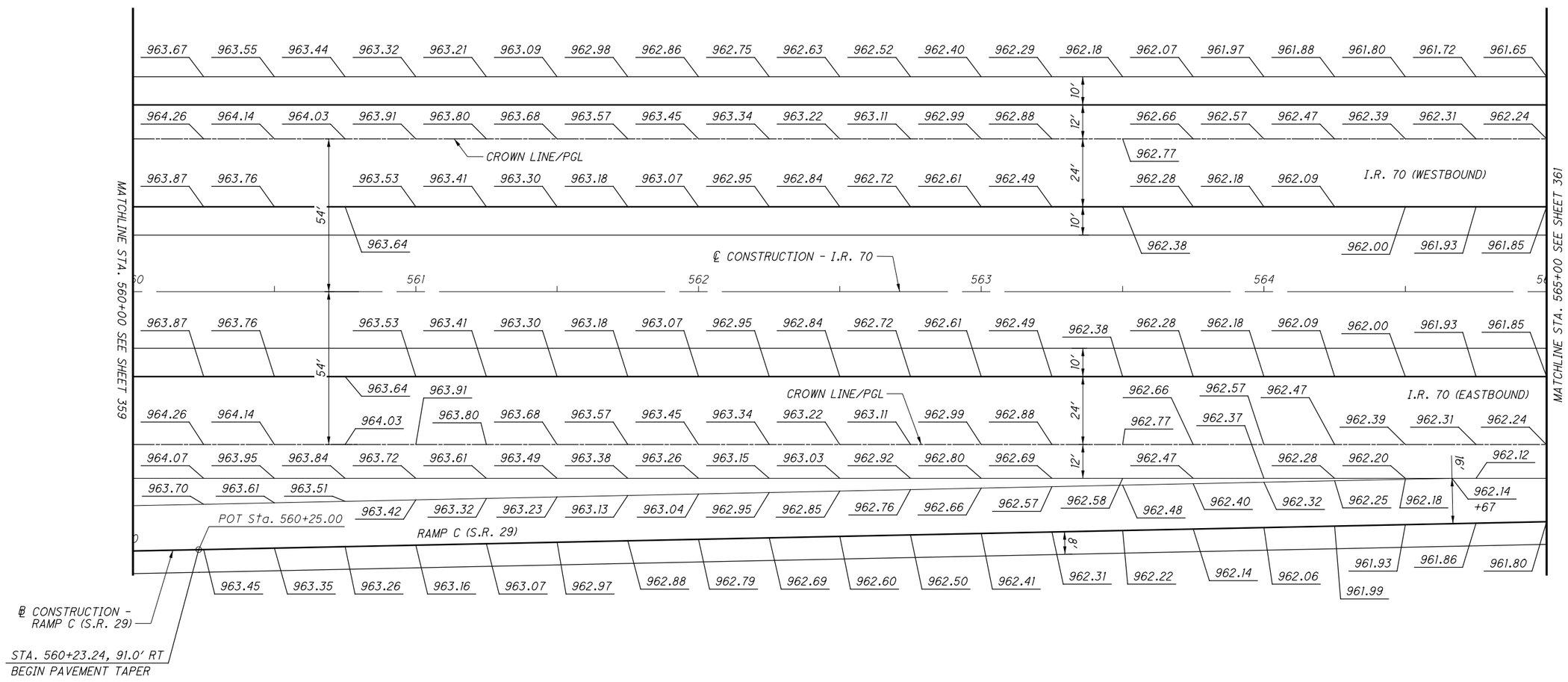
TERMINAL DETAIL - I.R. 70
STA. 555+00 TO STA. 560+00

MAD-70-8.62

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_G102.dgn Sheet 3/20/2019 9:51:49 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 560+00 TO STA. 565+00

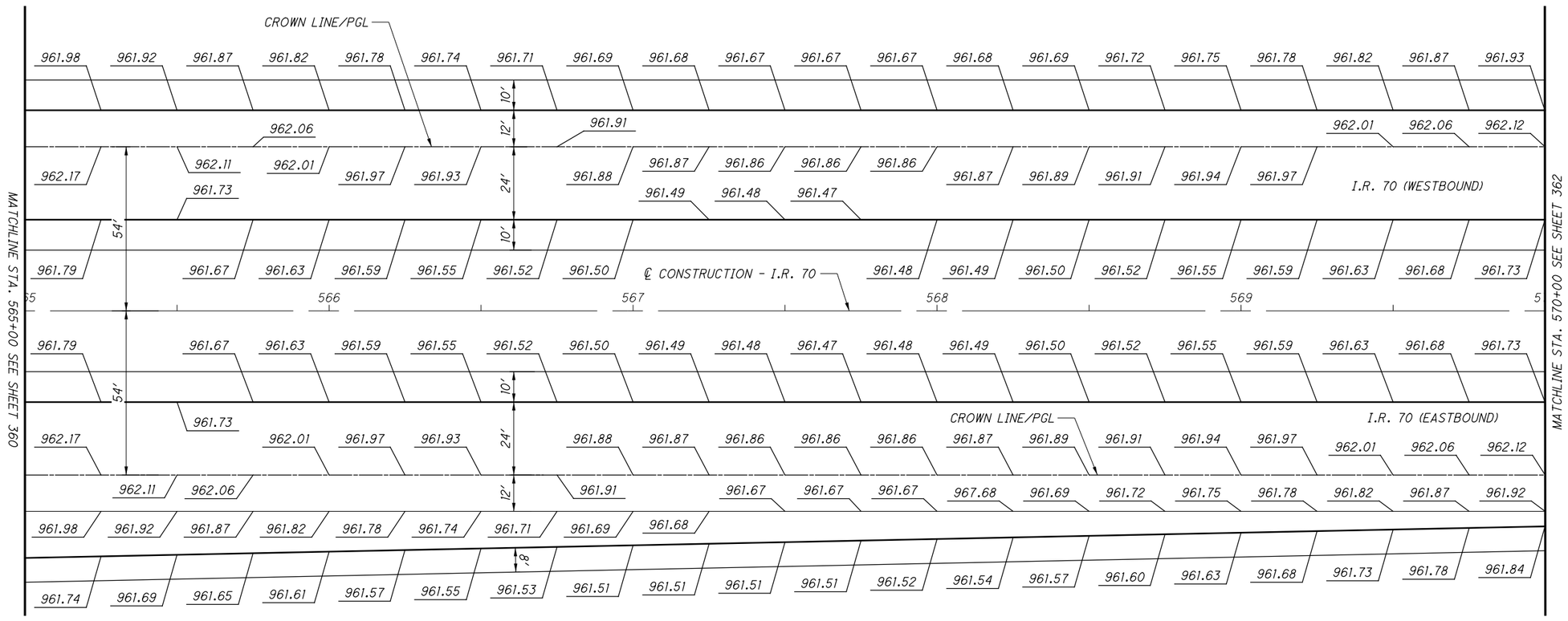
MAD-70-8.62

360
470

P:\107109_MAD-70-8.620B\Design\Roadway\Sheets\107109_G1013.dgn Sheet 3/20/2019 9:51:50 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

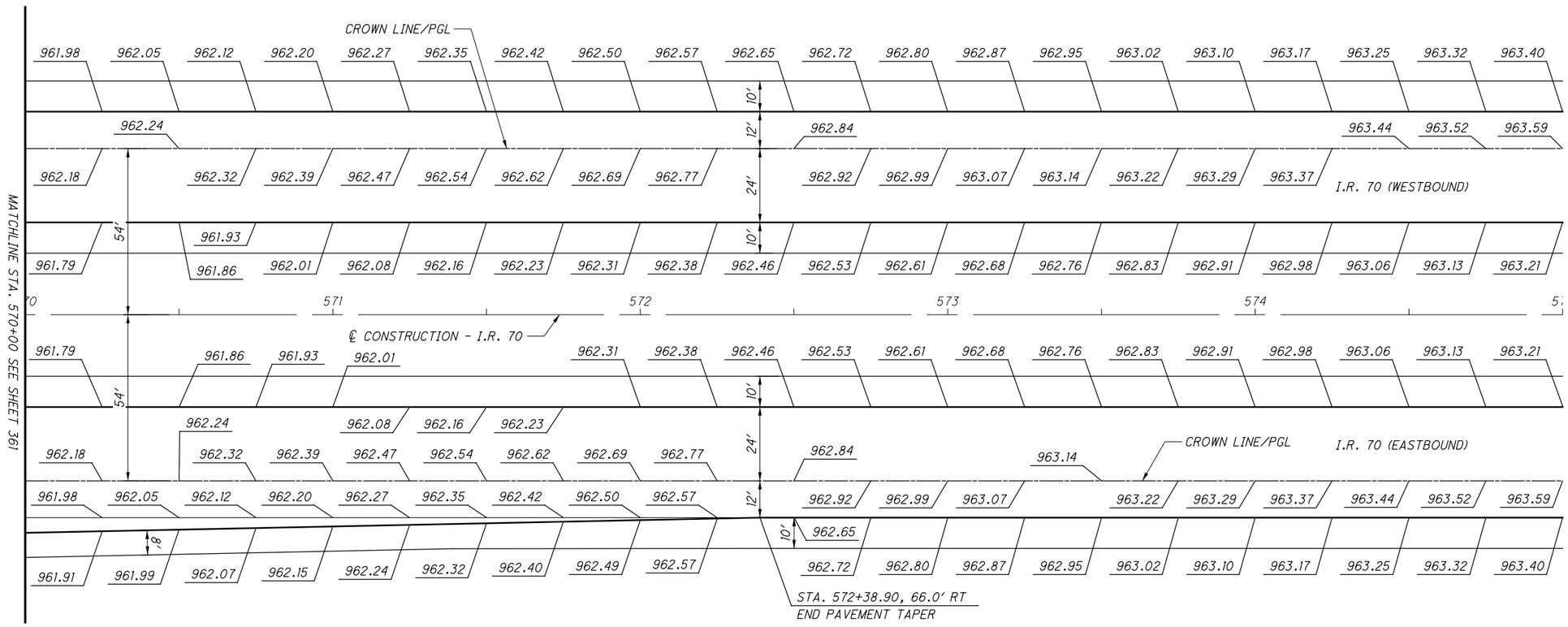
TERMINAL DETAIL - I.R. 70
STA. 565+00 TO STA. 570+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_G1014.dgn Sheet 3/20/2019 9:51:52 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

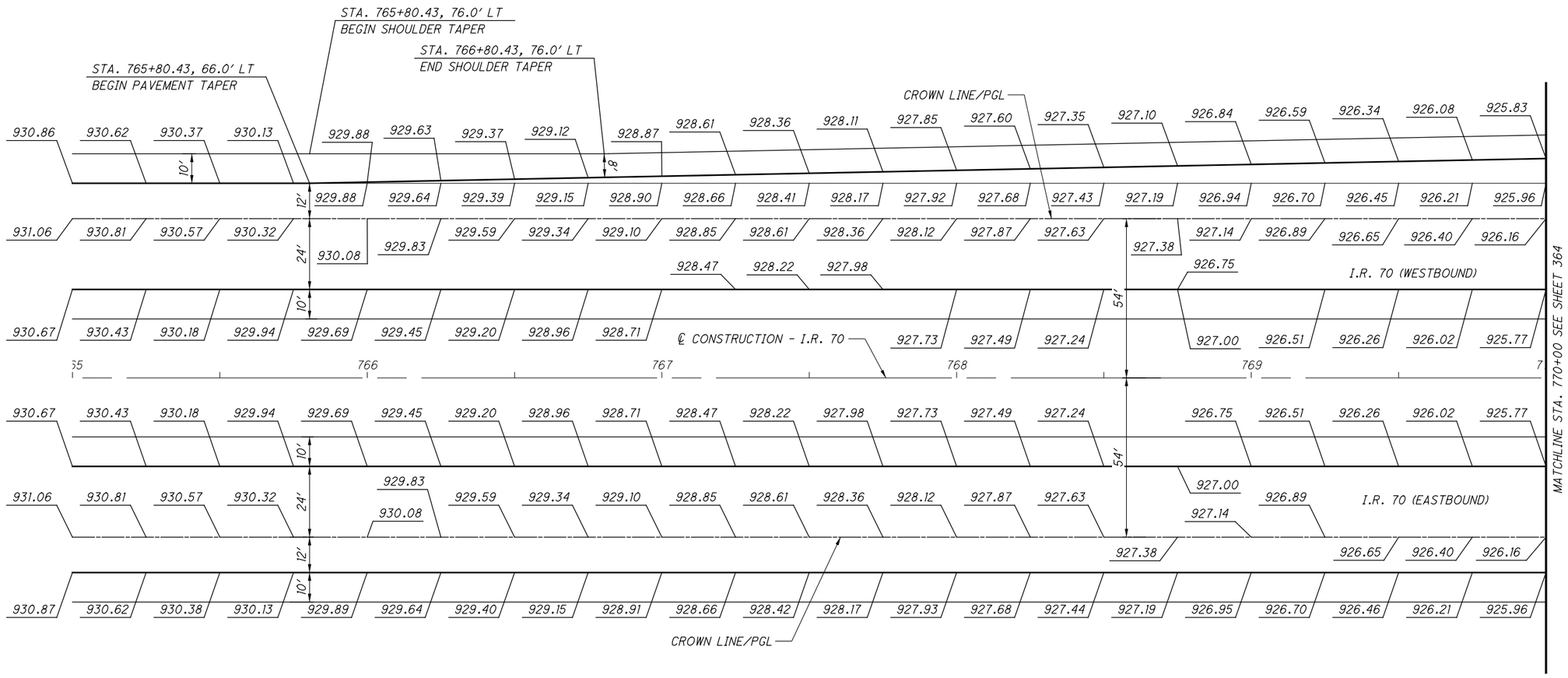
TERMINAL DETAIL - I.R. 70
STA. 570+00 TO STA. 575+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI015.dgn Sheet 3/20/2019 9:51:53 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25′ INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

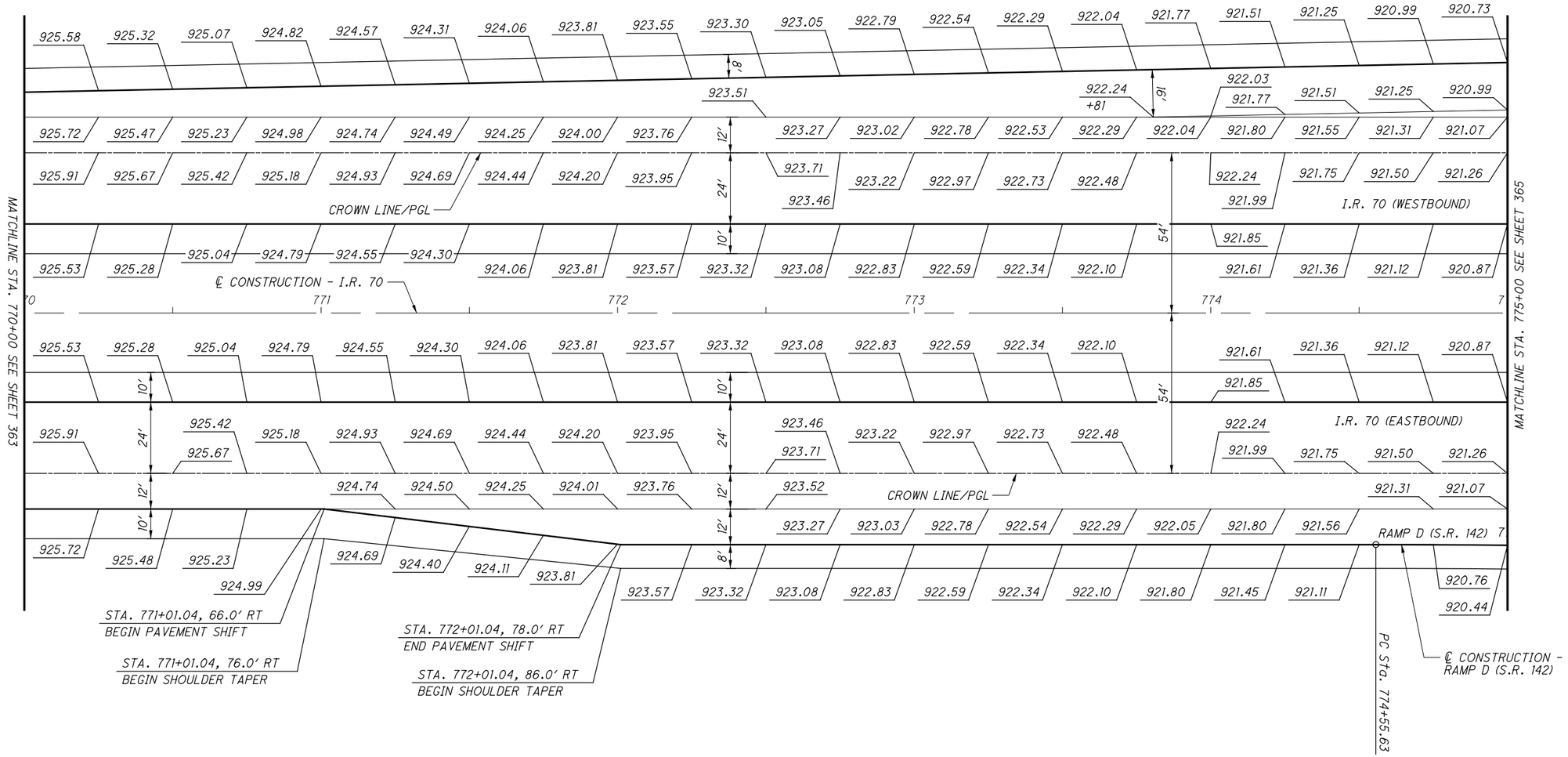
TERMINAL DETAIL - I.R. 70
STA. 765+00 TO STA. 770+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI016.dgn Sheet 3/20/2019 9:51:54 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

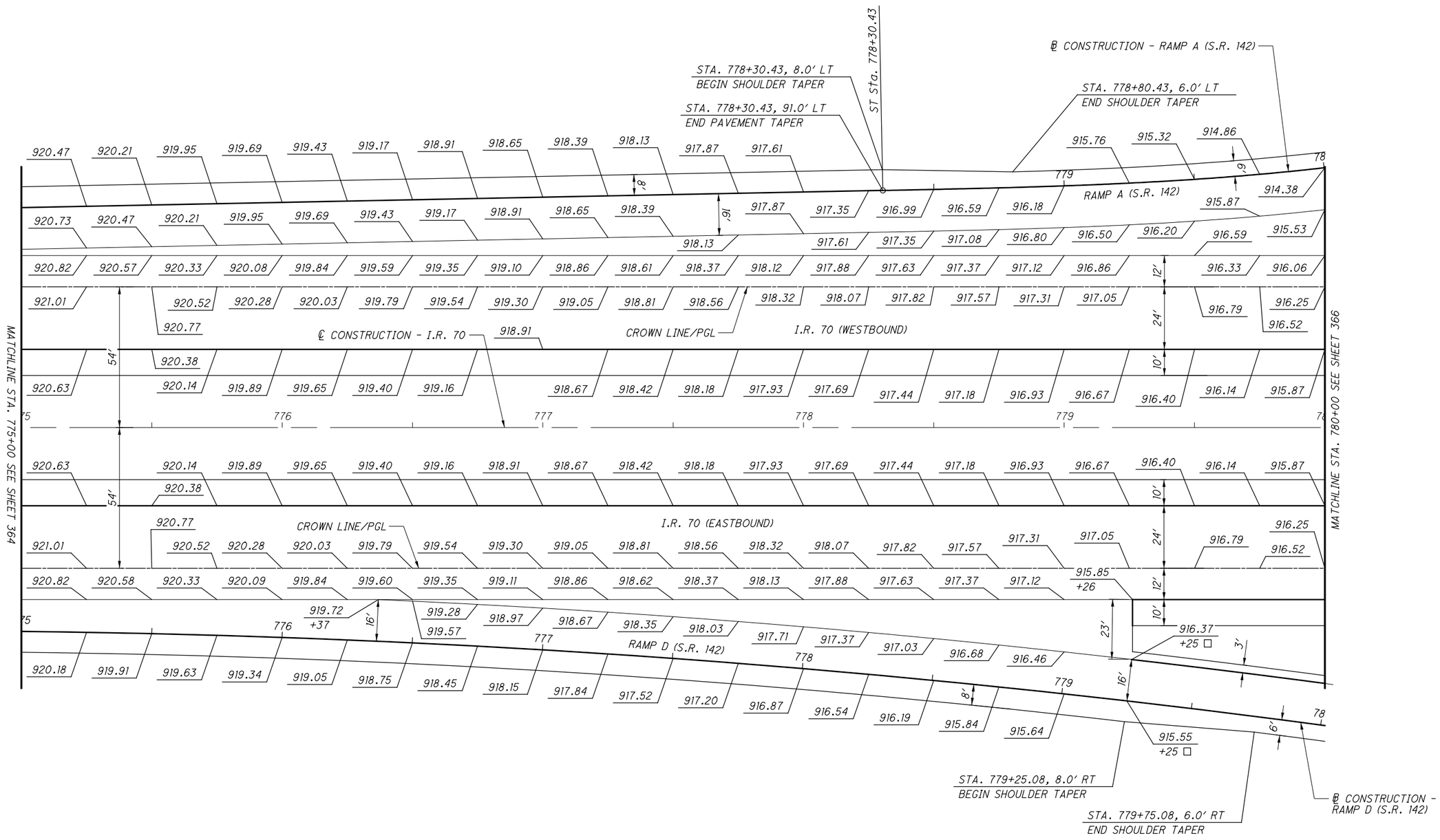
TERMINAL DETAIL - I.R. 70
STA. 770+00 TO STA. 775+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI017.dgn Sheet 3/20/2019 9:51:55 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



☐ INDICATES RAMP STATIONING

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

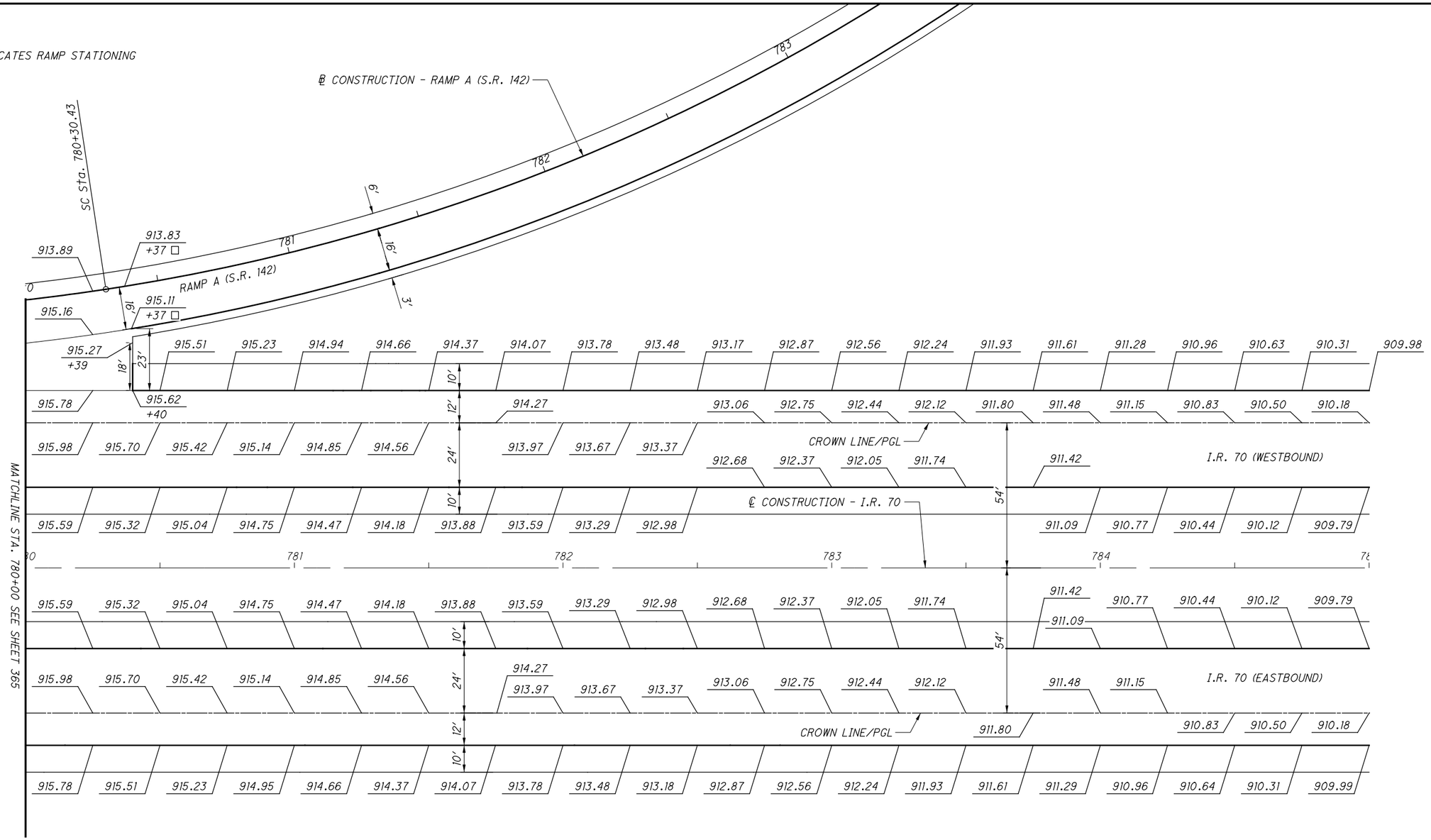
APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 775+00 TO STA. 780+00

MAD-70-8.62

365
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI018.dgn Sheet 3/20/2019 9:51:57 AM mcornett



NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

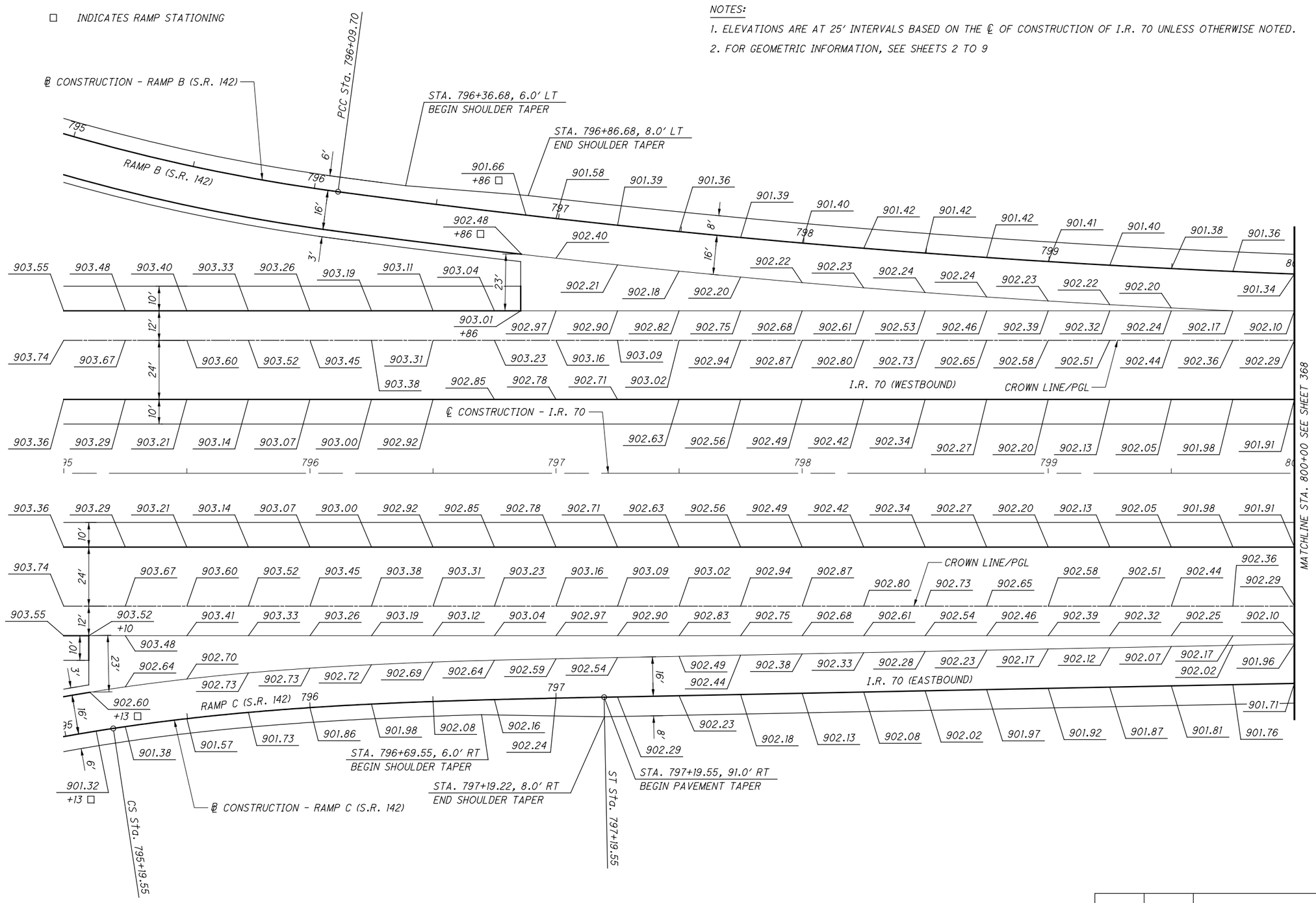
TERMINAL DETAIL - I.R. 70
STA. 780+00 TO STA. 785+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_G1019.dgn Sheet 3/20/2019 9:51:58 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

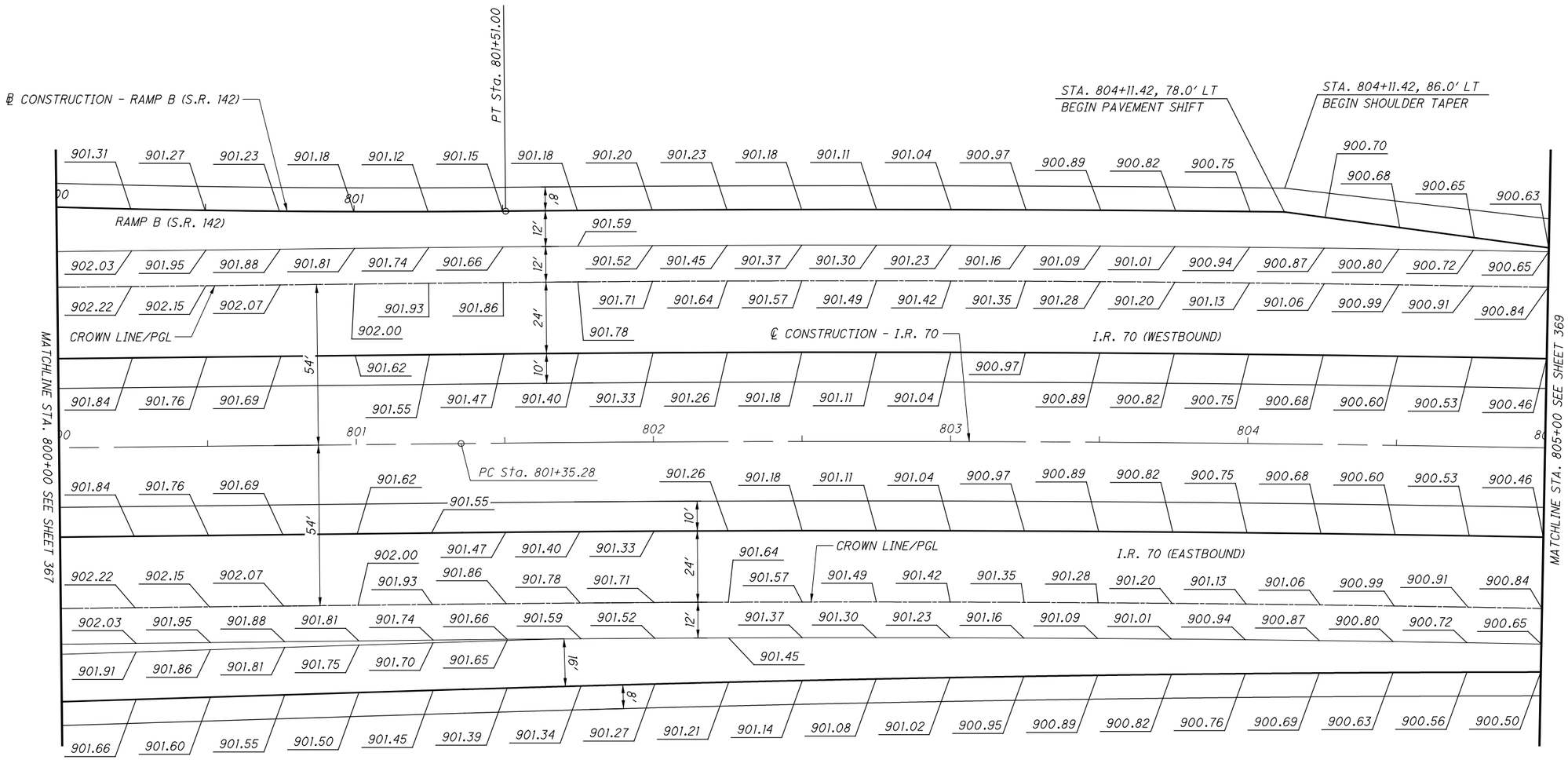
TERMINAL DETAIL - I.R. 70
STA. 795+00 TO STA. 800+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI020.dgn Sheet 3/20/2019 9:52:00 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TERMINAL DETAIL - I.R. 70
STA. 800+00 TO STA. 805+00

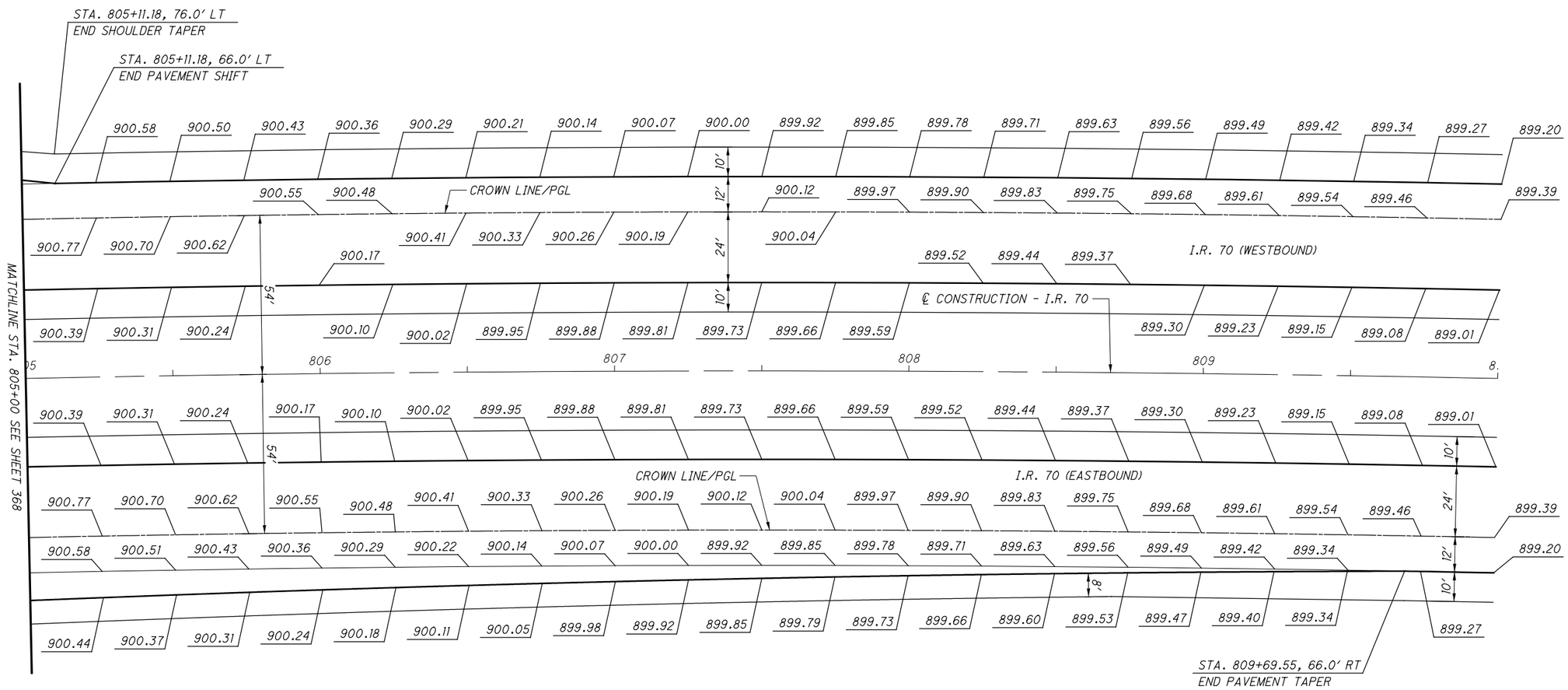
MAD-70-8.62

368
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI021.dgn Sheet 3/20/2019 9:52:01 AM mcornett

NOTES:

1. ELEVATIONS ARE AT 25' INTERVALS BASED ON THE ℄ OF CONSTRUCTION OF I.R. 70 UNLESS OTHERWISE NOTED.
2. FOR GEOMETRIC INFORMATION, SEE SHEETS 2 TO 9



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED MLL
CHECKED MJC

TERMINAL DETAIL - I.R. 70
STA. 805+00 TO STA. 810+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI022.dgn Sheet 3/20/2019 9:52:02 AM mcornett

NO.	DATE	DESCRIPTION
		ISSUE RECORD

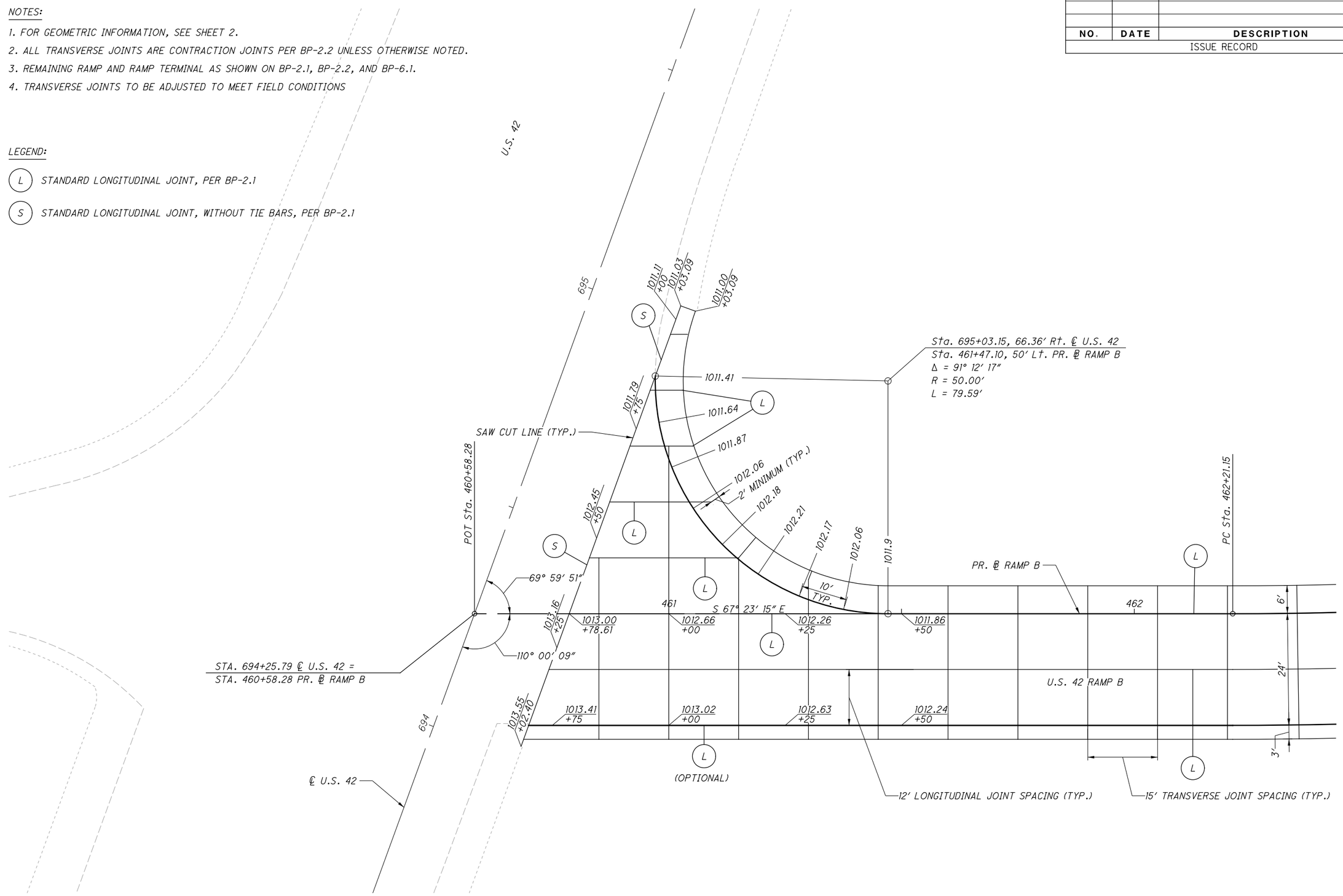
NOTES:

1. FOR GEOMETRIC INFORMATION, SEE SHEET 2.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1



APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
U.S. 42 (RAMP B) & U.S. 42

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

MAD-70-8.62

370
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI201.dgn Sheet 3/20/2019 9:52:04 AM mcornett

NOTES:

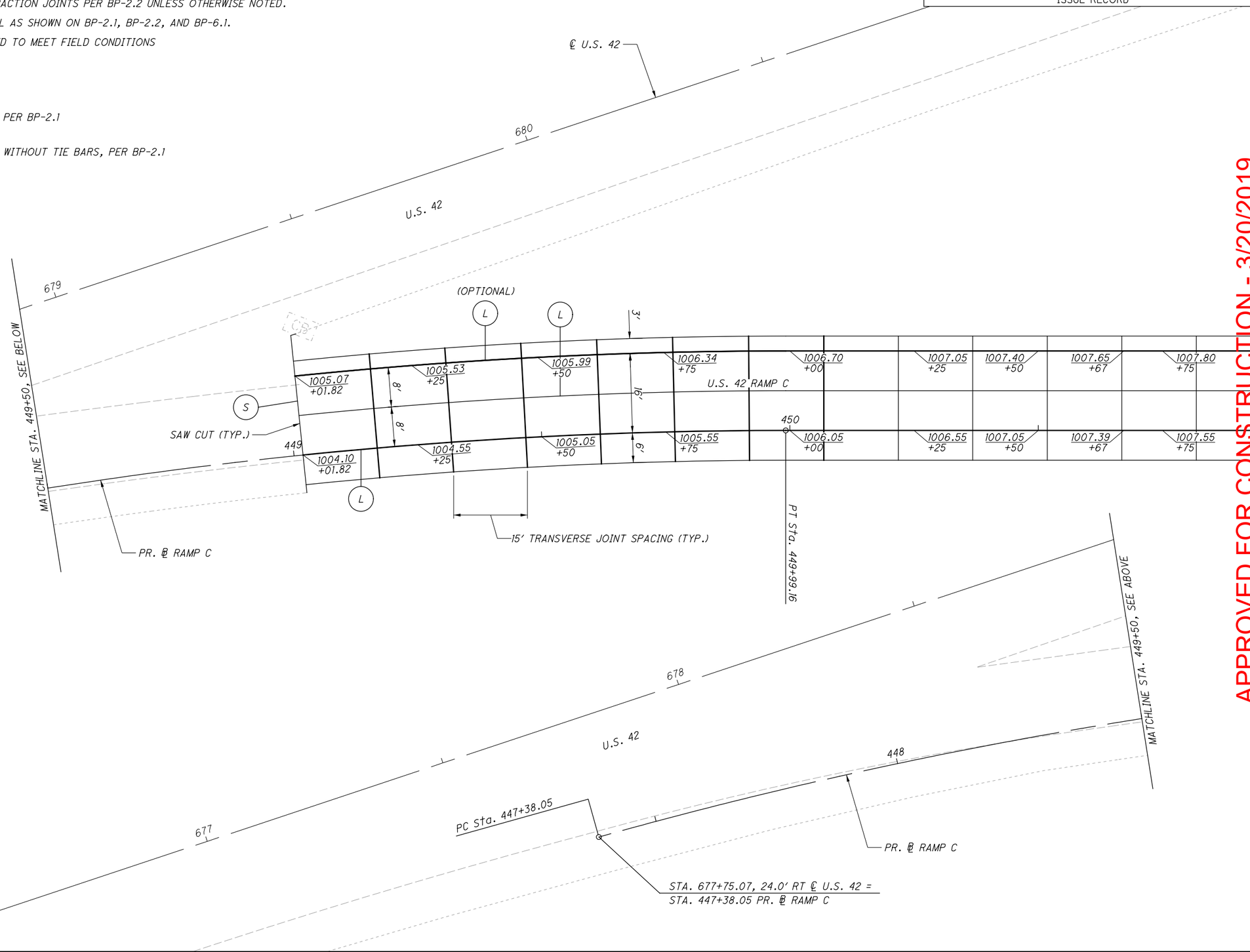
1. FOR GEOMETRIC INFORMATION, SEE SHEET 2.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1

NO.	DATE	DESCRIPTION
		ISSUE RECORD



HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
U.S. 42 (RAMP C) & U.S. 42

MAD-70-8.62

371
470

P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GI202.dgn Sheet 3/20/2019 9:52:06 AM mcornett

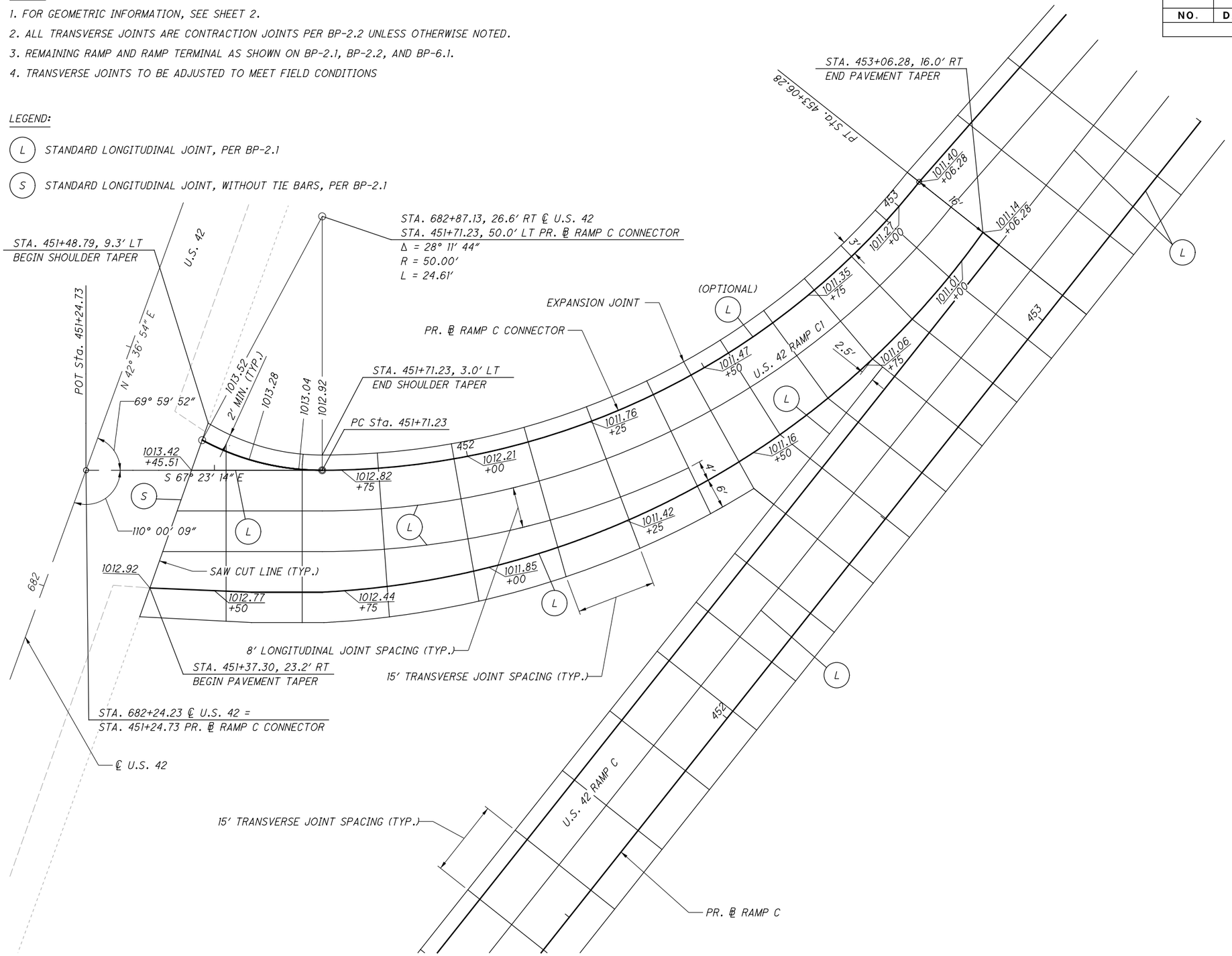
NOTES:

1. FOR GEOMETRIC INFORMATION, SEE SHEET 2.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1



NO.	DATE	DESCRIPTION
		ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
S.R. 42 (RAMP C1) & S.R. 42

MAD-70-8.62

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NO.	DATE	DESCRIPTION
		ISSUE RECORD

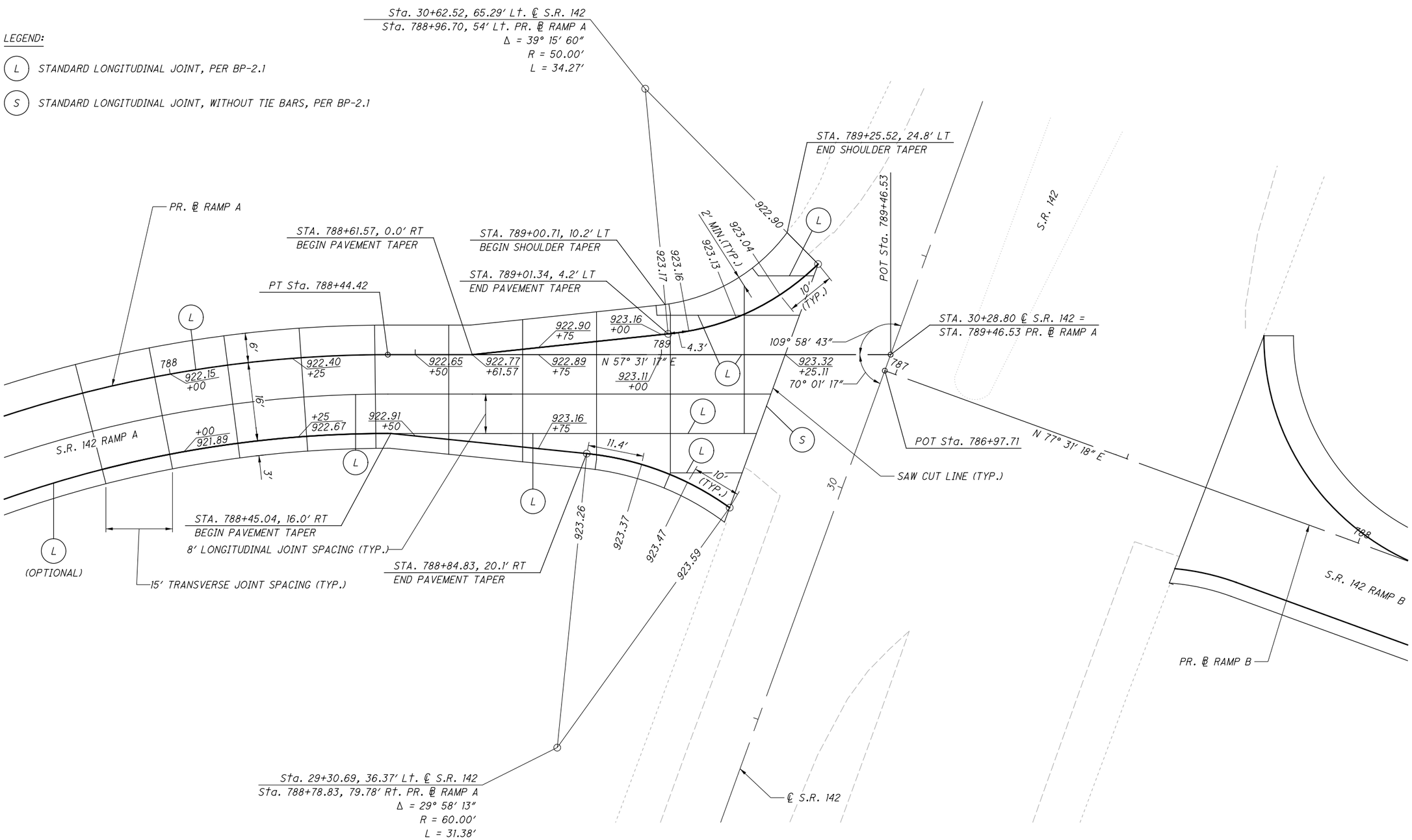
NOTES:

1. FOR GEOMETRIC INFORMATION, SEE SHEET 8.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1



HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
S.R. 142 (RAMP A) & S.R. 142

MAD-70-8.62

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NO.	DATE	DESCRIPTION

ISSUE RECORD

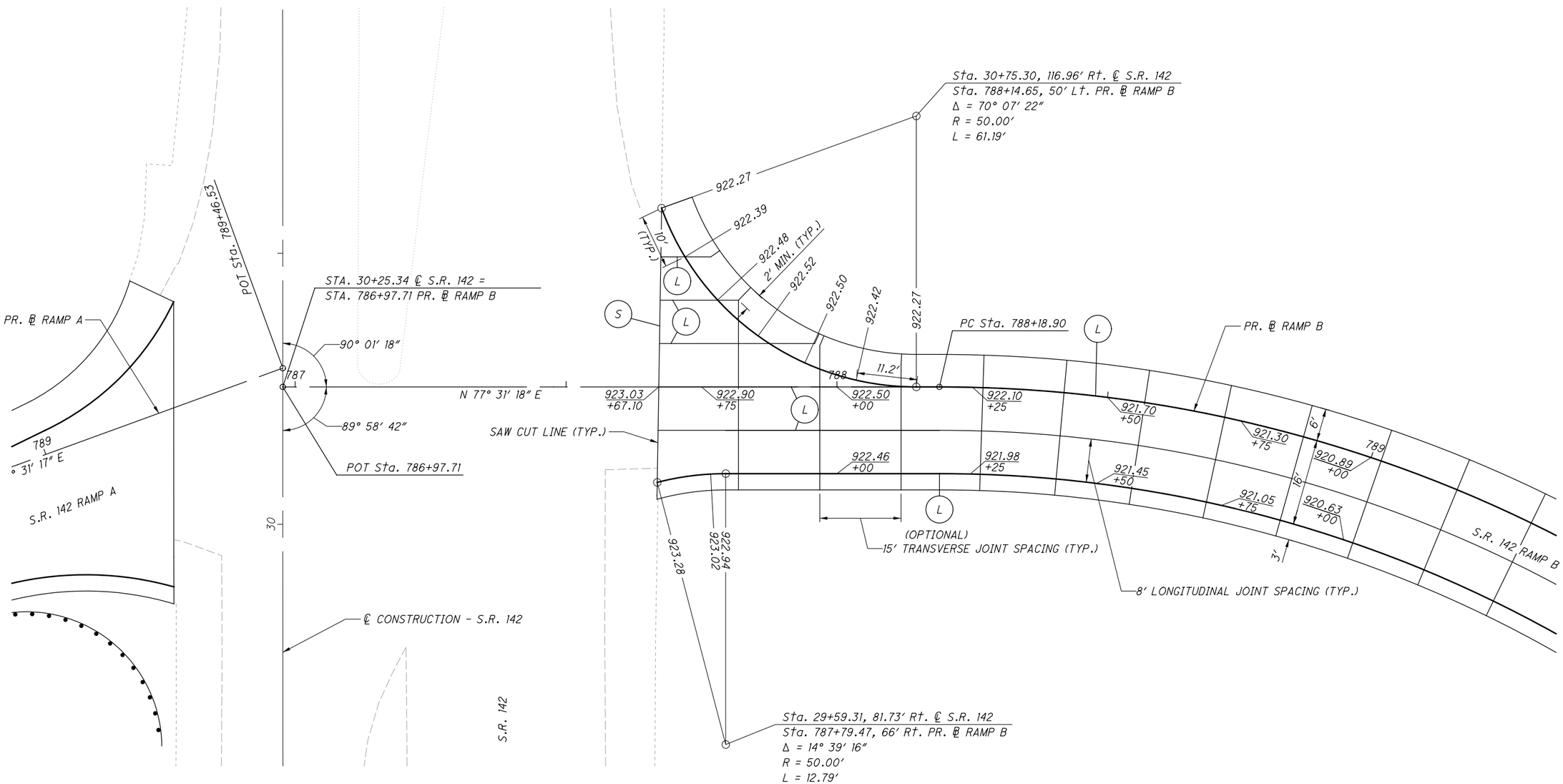
NOTES:

1. FOR GEOMETRIC INFORMATION, SEE SHEET 8.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1



HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
S.R. 142 (RAMP B) & S.R. 142

MAD-70-8.62

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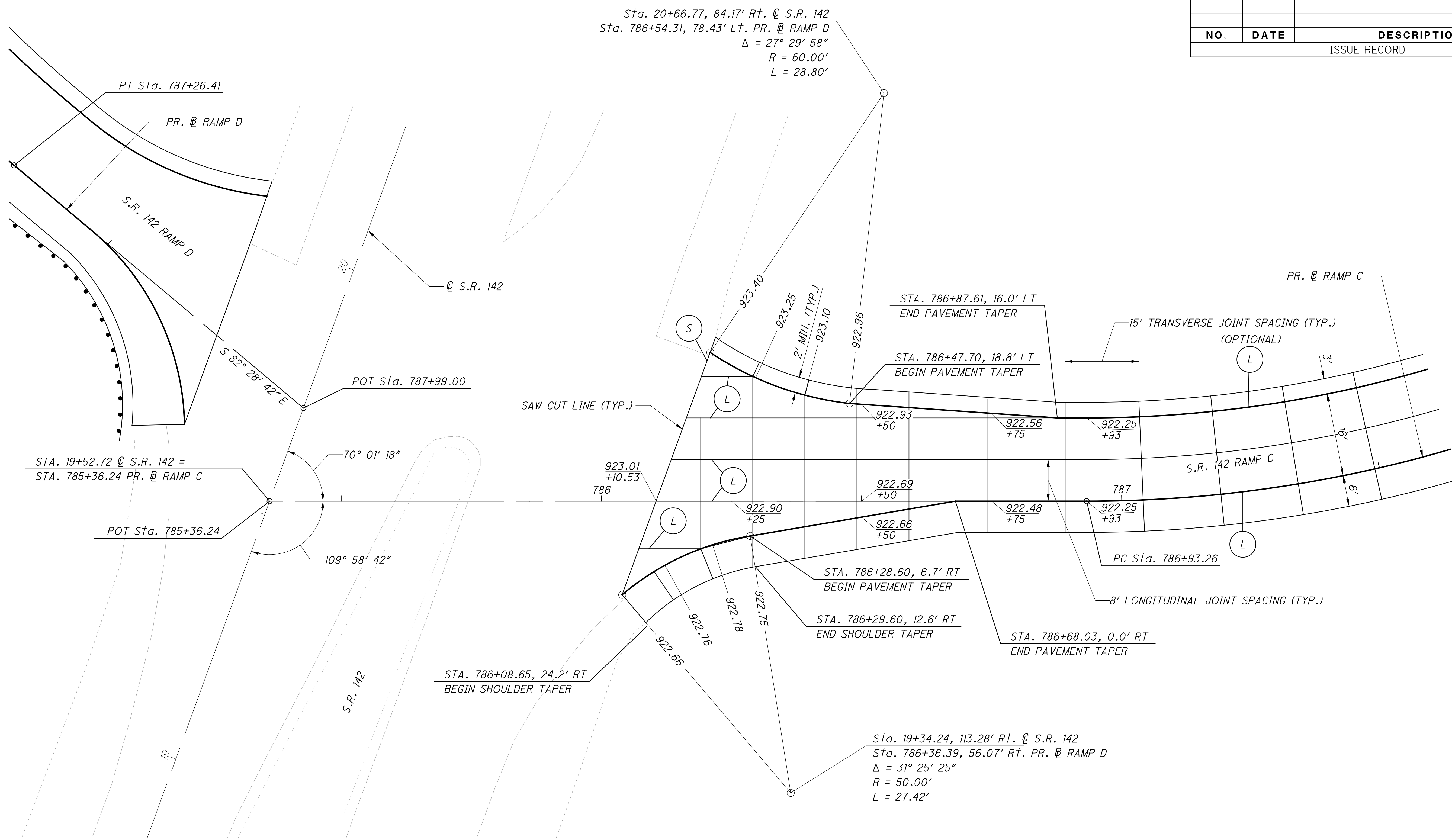

NOTES:

1. FOR GEOMETRIC INFORMATION, SEE SHEET 8.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
S.R. 142 (RAMP C) & S.R. 142

MAD-70-8.62

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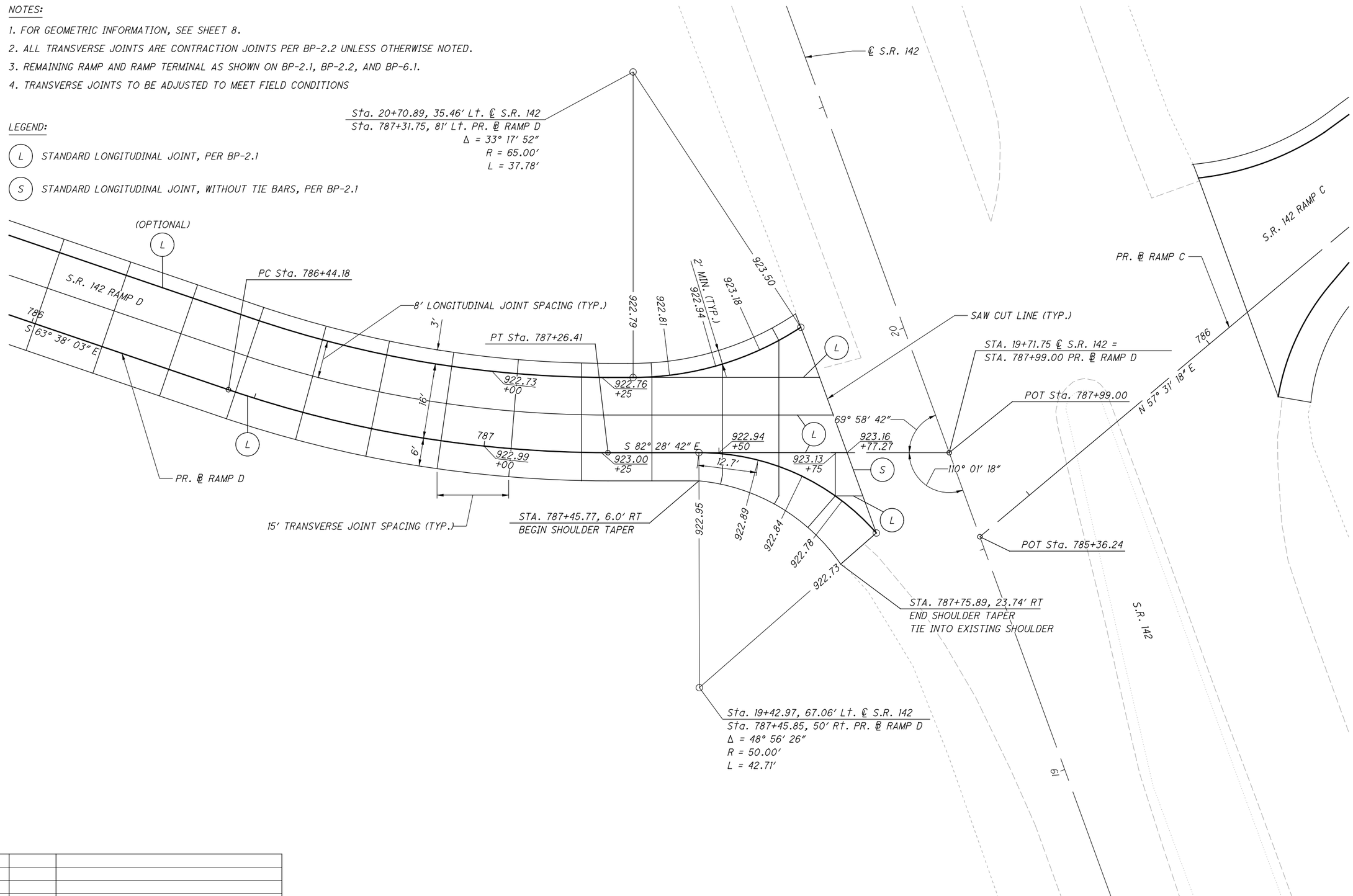
NOTES:

1. FOR GEOMETRIC INFORMATION, SEE SHEET 8.
2. ALL TRANSVERSE JOINTS ARE CONTRACTION JOINTS PER BP-2.2 UNLESS OTHERWISE NOTED.
3. REMAINING RAMP AND RAMP TERMINAL AS SHOWN ON BP-2.1, BP-2.2, AND BP-6.1.
4. TRANSVERSE JOINTS TO BE ADJUSTED TO MEET FIELD CONDITIONS

LEGEND:

(L) STANDARD LONGITUDINAL JOINT, PER BP-2.1

(S) STANDARD LONGITUDINAL JOINT, WITHOUT TIE BARS, PER BP-2.1



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION DETAIL
S.R. 142 (RAMP D) & S.R. 142

MAD-70-8.62

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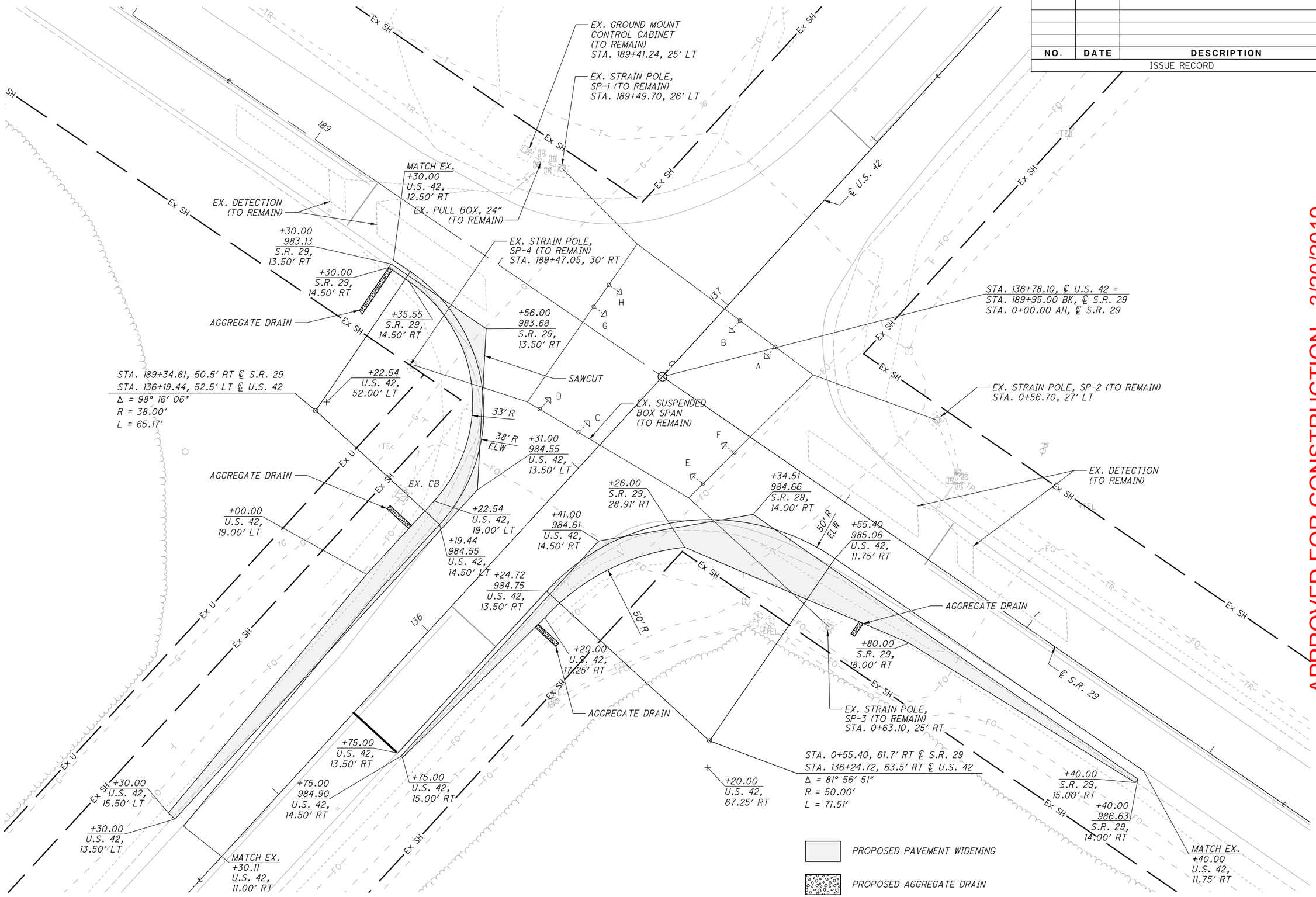

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED TDP
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

INTERSECTION IMPROVEMENT
U.S. 42 & S.R. 29

MAD-70-8.62

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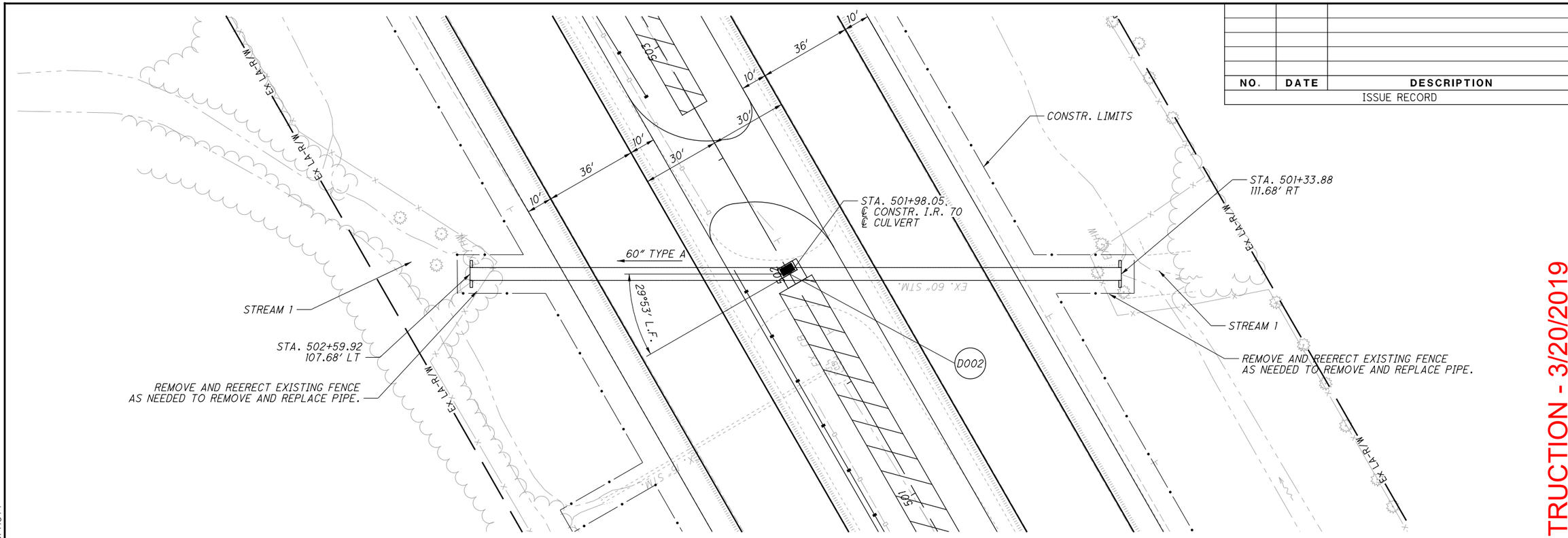
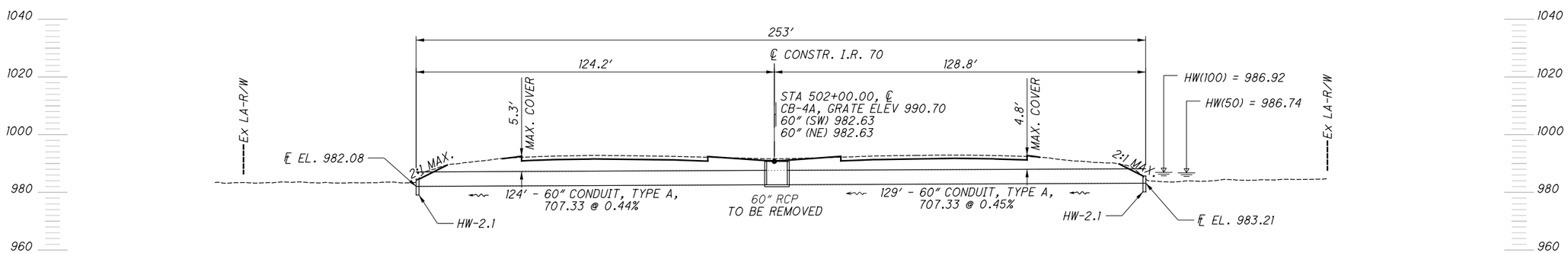
NO.	DATE	DESCRIPTION
		ISSUE RECORD





PROPOSED STRUCTURE	
CFN:	1884198
TYPE:	60" CONDUIT, TYPE A, 707.33
LENGTH:	253'
SKEW:	29°53' L.F.
WEARING SURFACE:	ASPHALT CONCRETE
pH:	7.1
SERVICE LIFE:	75 YEARS
NON-ABRASIVE	

EXISTING STRUCTURE	
TYPE:	60" RCP
LENGTH:	253'
SKEW:	29°53' L.F.
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	1968

HYDRAULIC DESIGN DATA			
DRAINAGE AREA:	=	99.2	AC
Q50	=	84.5	CFS
Q100	=	95.74	CFS
HW50	=	986.74	FT
HW100	=	986.92	FT
V50	=	4.63	FPS
V100	=	5.24	FPS

IMPROVED INLET FOR HDPE PIPE: FURNISH IMPROVED INLET AT UPSTREAM END OF CULVERTS.

SEE STANDARD DRAWING HW-2.1 FOR FURTHER DETAIL.

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TDP
CHECKED ENB

APPROVED FOR CONSTRUCTION - 3/20/2019

CULVERT DETAILS
I.R. 70 STA. 501+98.05

MAD-70-8.62

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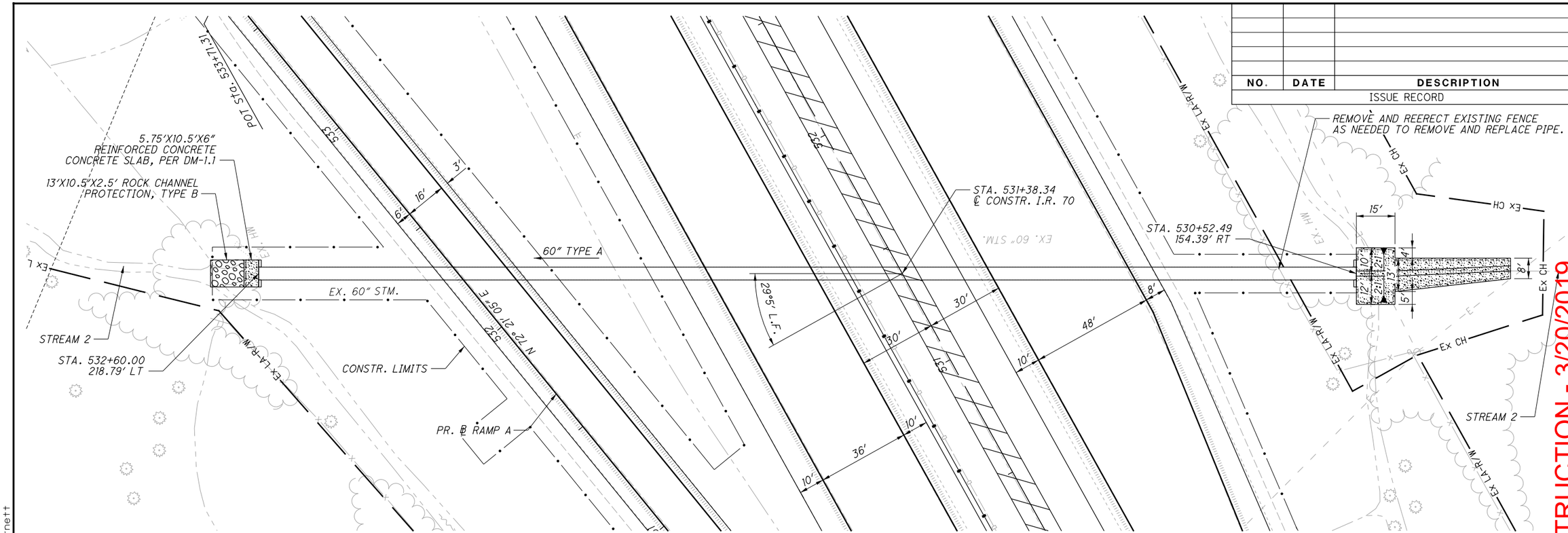
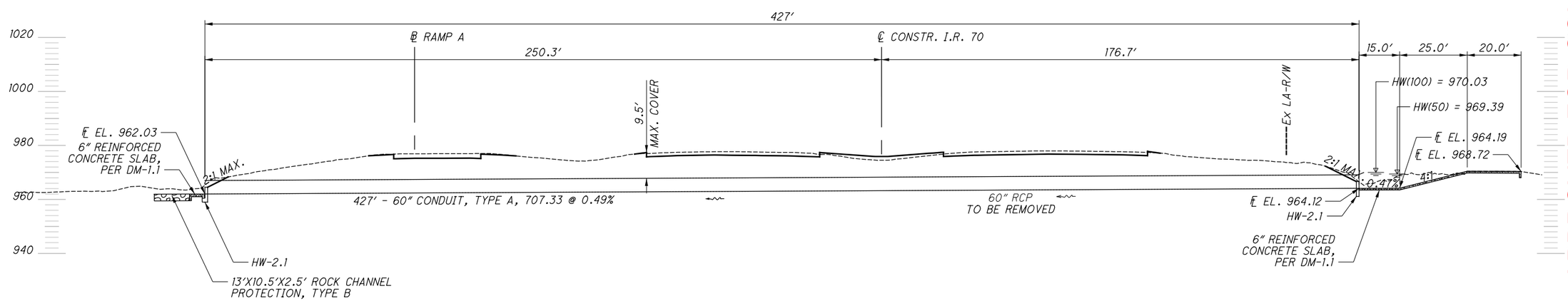
NO.	DATE	DESCRIPTION

ISSUE RECORD





PROPOSED STRUCTURE	
CFN:	1975144
TYPE:	60" CONDUIT, TYPE A, 707.33
LENGTH:	427'
SKEW:	29°5' L.F.
WEARING SURFACE:	ASPHALT CONCRETE
pH:	7.1
SERVICE LIFE:	75 YEARS
NON-ABRASIVE	

EXISTING STRUCTURE	
TYPE:	60" RCP
LENGTH:	427'
SKEW:	29°5' L.F.
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	1968

HYDRAULIC DESIGN DATA			
DRAINAGE AREA:	=	160	AC
Q50	=	136	CFS
Q100	=	157	CFS
HW50	=	969.39	FT
HW100	=	970.03	FT
V50	=	7.45	FPS
V100	=	8.60	FPS

IMPROVED INLET FOR HDPE PIPE: FURNISH IMPROVED INLET AT UPSTREAM END OF CULVERTS.

SEE STANDARD DRAWING HW-2.1 FOR FURTHER DETAIL.

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TDP
CHECKED ENB

CULVERT DETAILS
I.R. 70 STA. 531+38.34

MAD-70-8.62

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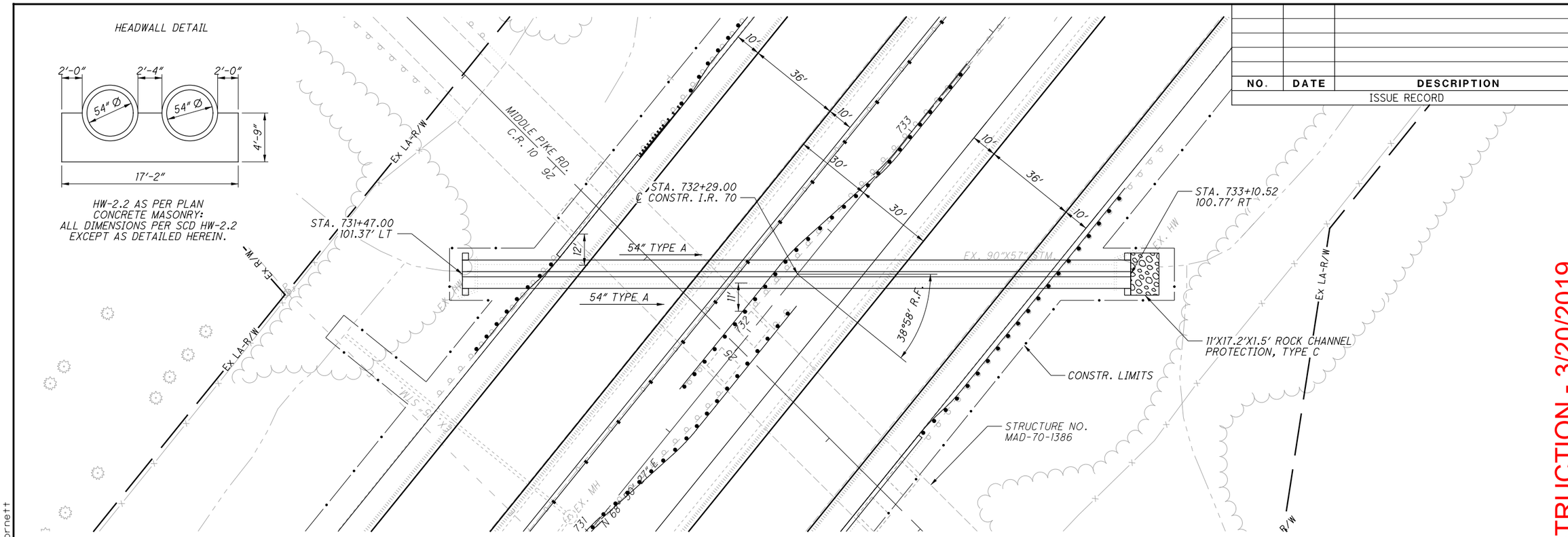

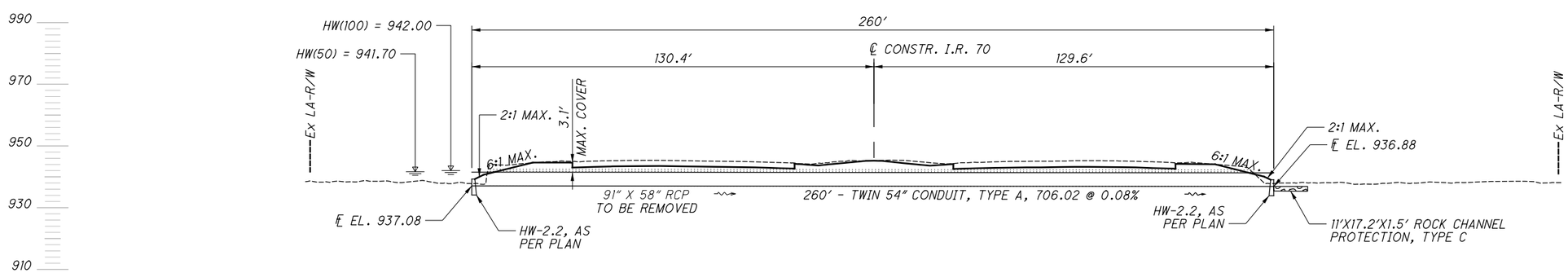

PROPOSED STRUCTURE	
CFN:	1884200
TYPE:	TWIN 54" CONDUIT, TYPE A, 706.02
LENGTH:	260'
SKEW:	38°58' R.F.
WEARING SURFACE:	ASPHALT CONCRETE
pH:	7.1
SERVICE LIFE:	75 YEARS
NON-ABRASIVE	

EXISTING STRUCTURE	
TYPE:	91" X 58" ELLIPTICAL RCP
LENGTH:	248'
SKEW:	38°58' R.F.
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	1968

HYDRAULIC DESIGN DATA			
DRAINAGE AREA:	=	205	AC
Q50	=	154	CFS
Q100	=	178	CFS
HW50	=	941.70	FT
HW100	=	942.00	FT
V50	=	5.29	FPS
V100	=	6.12	FPS

NO.	DATE	DESCRIPTION
		ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TDP
CHECKED ENB

APPROVED FOR CONSTRUCTION - 3/20/2019

CULVERT DETAILS
I.R. 70 STA. 732+29.00

MAD-70-8.62

380
470

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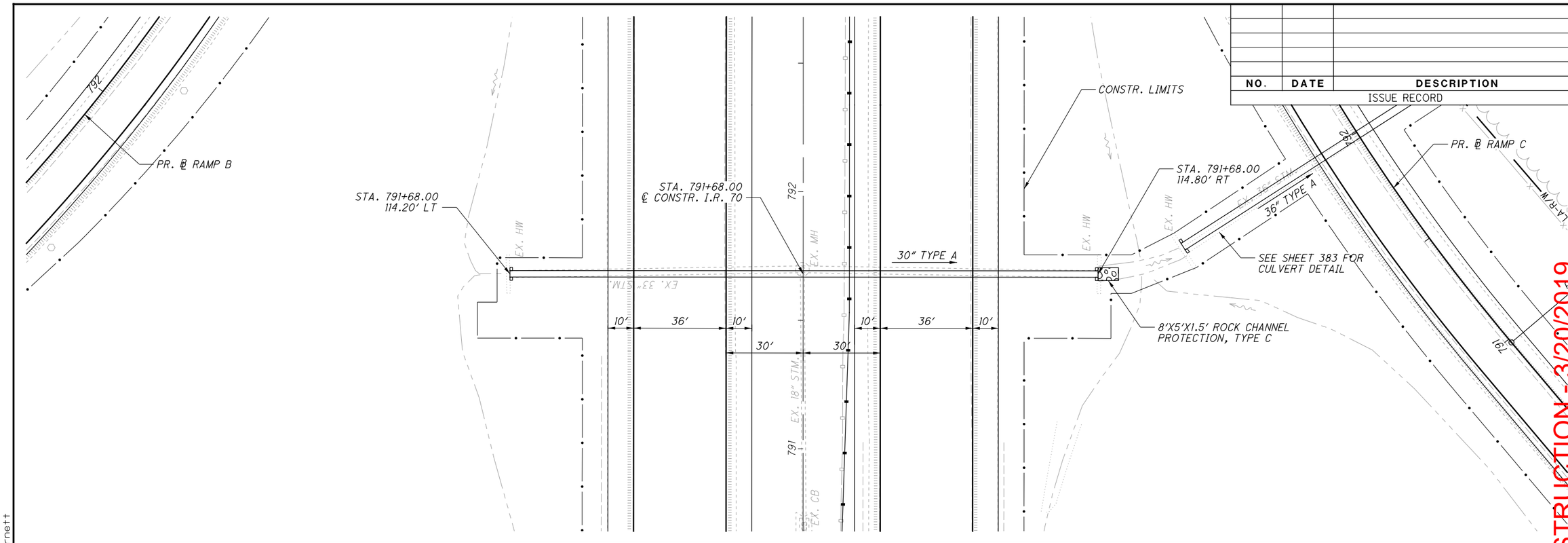

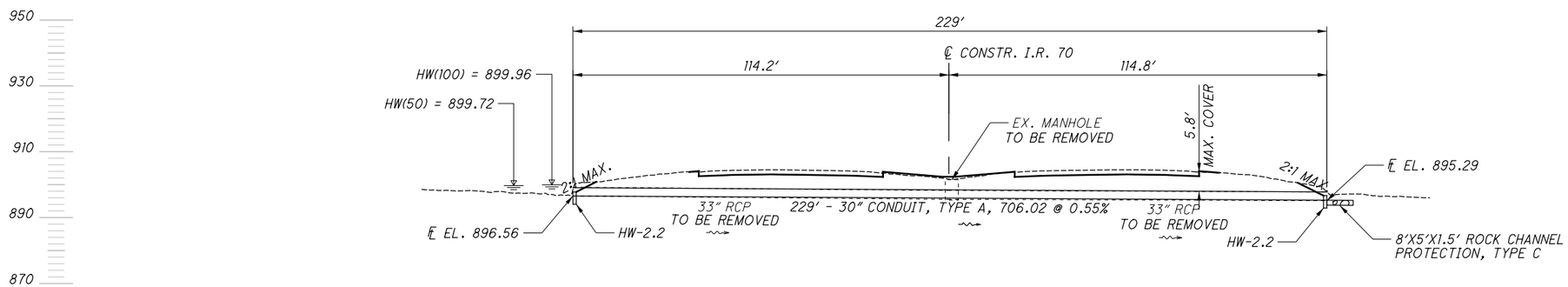

PROPOSED STRUCTURE	
CFN:	1884202
TYPE:	30″ CONDUIT, TYPE A, 706.02
LENGTH:	229′
SKEW:	0°00′
WEARING SURFACE:	ASPHALT CONCRETE
pH:	7.1
SERVICE LIFE:	75 YEARS
NON-ABRASIVE	

EXISTING STRUCTURE	
TYPE:	(2) 33″ RCP THROUGH MANHOLE
LENGTH:	LT 114′, RT 115
SKEW:	N/A
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	1968

HYDRAULIC DESIGN DATA			
DRAINAGE AREA:	=	8.76	AC
Q50	=	30.03	CFS
Q100	=	32.37	CFS
HW50	=	899.72	FT
HW100	=	899.96	FT
V50	=	6.95	FPS
V100	=	7.30	FPS

NO.	DATE	DESCRIPTION
		ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TDP
CHECKED ENB

APPROVED FOR CONSTRUCTION - 3/20/2019

CULVERT DETAILS
I.R. 70 STA. 791+68.00

MAD-70-8.62

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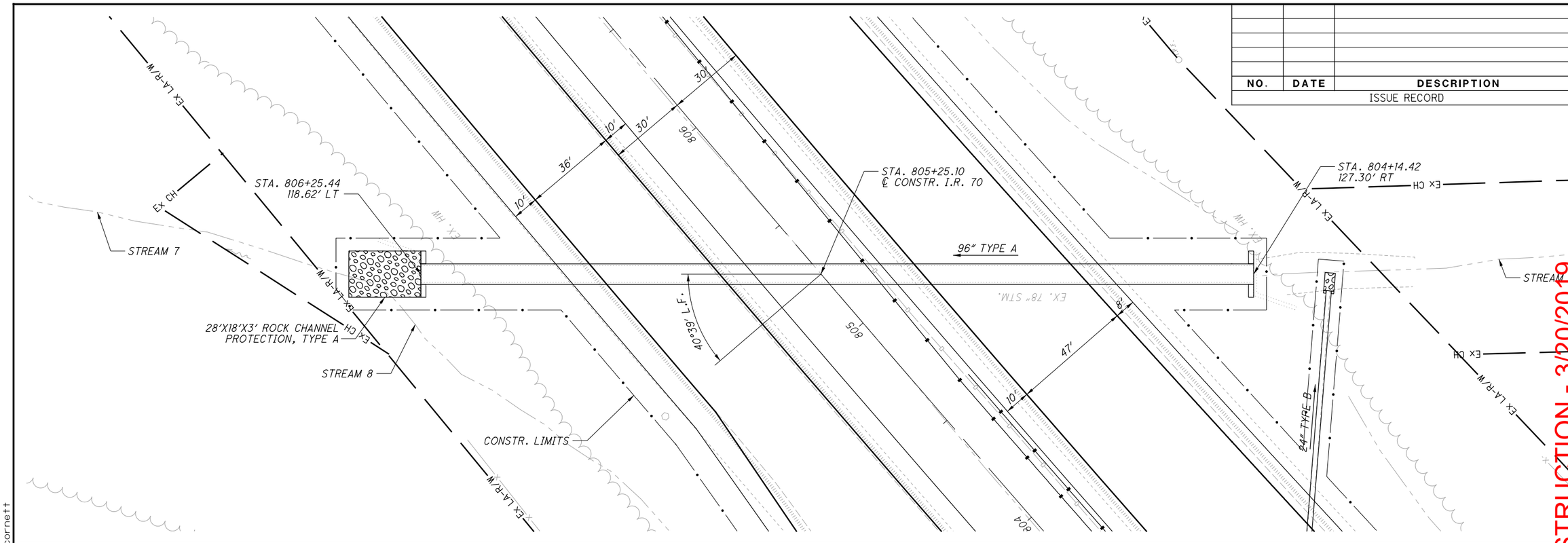
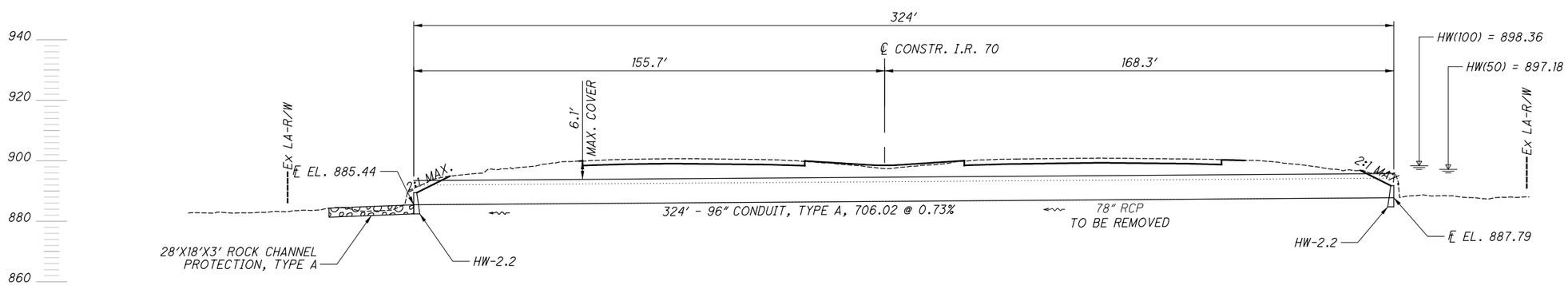
NO.	DATE	DESCRIPTION

ISSUE RECORD





PROPOSED STRUCTURE	
CFN:	1832798
TYPE:	96" CONDUIT, TYPE A, 706.02
LENGTH:	324'
SKEW:	40°39' L.F.
WEARING SURFACE:	ASPHALT CONCRETE
pH:	7.1
SERVICE LIFE:	75 YEARS
NON-ABRASIVE	

EXISTING STRUCTURE	
TYPE:	78" RCP
LENGTH:	324'
SKEW:	40°39' L.F.
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	1968

HYDRAULIC DESIGN DATA			
DRAINAGE AREA:	=	1280	AC
Q50	=	562	CFS
Q100	=	644	CFS
HW50	=	897.18	FT
HW100	=	898.36	FT
V50	=	15.34	FPS
V100	=	16.01	FPS

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TDP
CHECKED ENB

APPROVED FOR CONSTRUCTION - 3/20/2019

CULVERT DETAILS
I.R. 70 STA. 805+25.10

MAD-70-8.62

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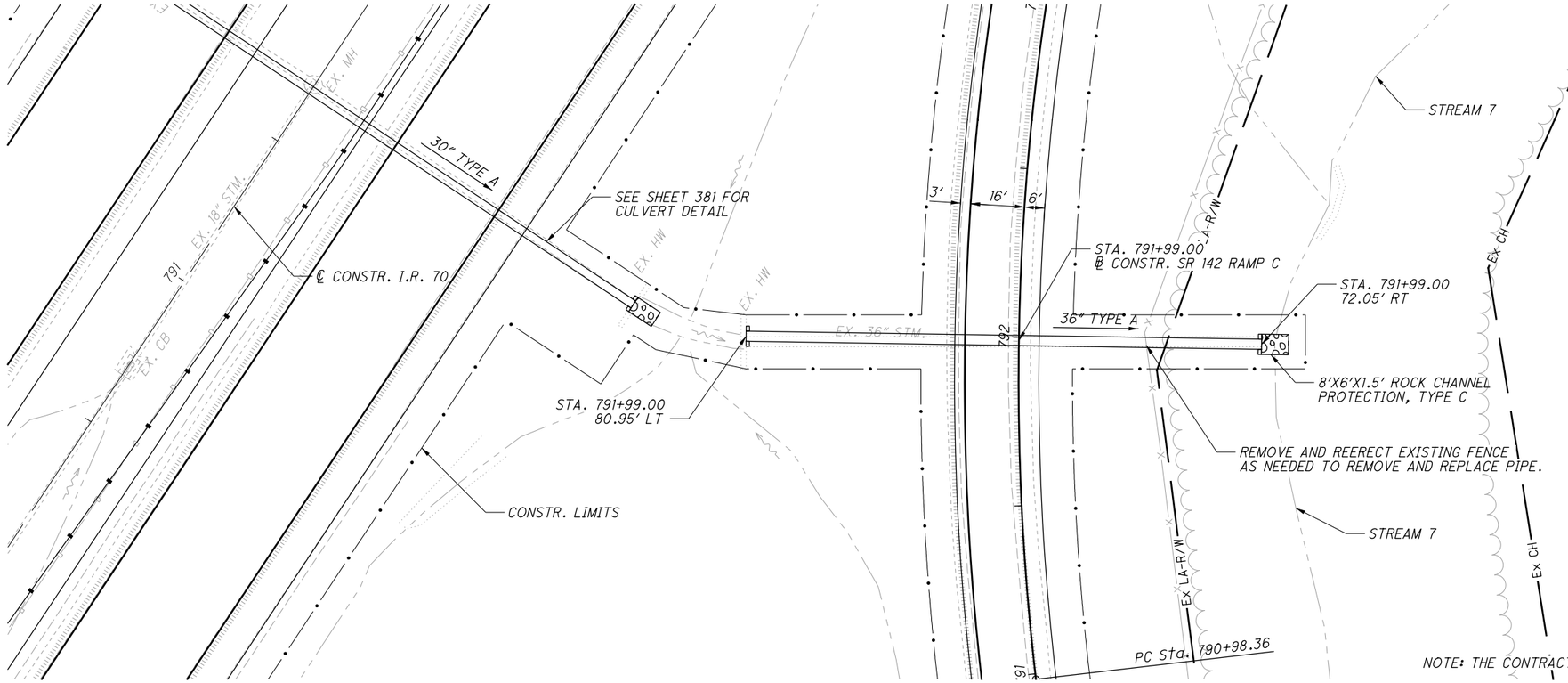
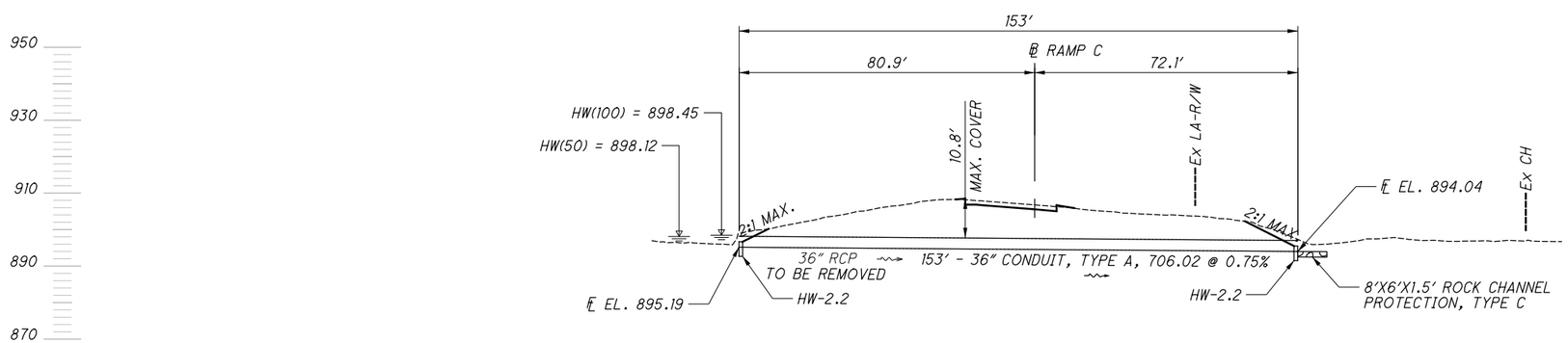


NOTE: THE CONTRACTOR SHALL AVOID IMPACTS TO STREAM 7 AS MUCH AS POSSIBLE

NO.	DATE	DESCRIPTION
		ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TDP
CHECKED ENB



PROPOSED STRUCTURE	
CFN:	1884201
TYPE:	36" CONDUIT, TYPE A, 706.02
LENGTH:	153'
SKEW:	0°00'
WEARING SURFACE:	ASPHALT CONCRETE
pH:	7.1
SERVICE LIFE:	75 YEARS
NON-ABRASIVE	

EXISTING STRUCTURE	
TYPE:	36" RCP
LENGTH:	153'
SKEW:	0°59' R.F.
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	1968

HYDRAULIC DESIGN DATA			
DRAINAGE AREA:	=	22.4	AC
Q50	=	34.10	CFS
Q100	=	39.50	CFS
HW50	=	898.12	FT
HW100	=	898.45	FT
V50	=	5.19	FPS
V100	=	8.30	FPS

APPROVED FOR CONSTRUCTION - 3/20/2019

CULVERT DETAILS
S.R. 142 RAMP C STA. 791+99.00

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
394	U-1	I.R. 70	478+28.95	RT	76.83	996.51	470+55.00	RT	92.62	994.83	U-11					774					
394	U-2	I.R. 70	478+28.95	RT	64.50	996.41	470+55.00	RT	83.28	994.72	U-11			774							
394	U-3	I.R. 70	473+19.14	RT	64.50	995.70	470+55.00	RT	64.50	995.06	U-11			259					5		
394	U-4	I.R. 70	478+28.95	RT	31.50	996.27	470+55.00	RT	31.50	994.87	U-11			769					5		
394	U-5	I.R. 70	478+28.95	RT	19.17	996.28	470+55.00	RT	19.17	994.88	U-11					769			5		
394	U-6	I.R. 70	478+28.95	LT	76.83	996.47	470+55.00	LT	113.37	993.45	U-12					774					
394	U-7	I.R. 70	478+28.95	LT	64.50	996.47	470+55.00	LT	103.98	993.39	U-12			774							
394	U-8	I.R. 70	474+55.81	LT	64.50	996.02	470+55.00	LT	64.50	995.09	U-12			396					5		
394	U-9	I.R. 70	478+28.95	LT	31.50	996.27	470+55.00	LT	31.50	994.87	U-12			769					5		
394	U-10	I.R. 70	478+28.95	LT	19.17	996.28	470+55.00	LT	19.17	994.88	U-12					769			5		
394	U-11	I.R. 70	470+55.00	RT	92.62	994.83	470+37.47	CL	0.00	993.81	EX. CB								100		
394	U-12	I.R. 70	470+55.00	LT	113.37	993.45	470+37.47	CL	0.00	992.28	EX. CB								121		
394	U-13	I.R. 70	478+28.95	RT	76.83	996.50	488+94.00	RT	76.83	993.75	U-21					1065					
394	U-14	I.R. 70	478+28.95	RT	64.50	996.01	488+94.00	RT	64.50	993.81	U-21			1060					5		
394	U-15	I.R. 70	478+28.95	RT	31.50	996.27	488+94.00	RT	31.50	993.62	U-21			1065							
394	U-16	I.R. 70	478+28.95	RT	19.17	996.28	488+94.00	RT	19.17	993.63	U-21					1060			5		
394	U-17	I.R. 70	478+28.95	LT	76.83	996.47	488+94.00	LT	76.83	993.73	U-22					1065					
394	U-18	I.R. 70	478+28.95	LT	64.50	996.47	488+94.00	LT	64.50	993.81	U-22			1060					5		
394	U-19	I.R. 70	478+28.95	LT	31.50	996.27	488+94.00	LT	31.50	993.62	U-22			1065							
394	U-20	I.R. 70	478+28.95	LT	19.17	996.28	488+94.00	LT	19.17	993.63	U-22					1060			5		
394	U-21	I.R. 70	488+94.00	RT	76.83	993.75	488+99.00	CL	0.00	993.30	D001								77		
394	U-22	I.R. 70	488+94.00	LT	76.83	993.73	488+99.00	CL	0.00	993.30	D001								77		
394-395	U-23	I.R. 70	489+04.00	RT	76.83	993.72	498+25.00	RT	76.83	990.68	U-31					916			5		
394-395	U-24	I.R. 70	489+04.00	RT	64.50	993.78	498+25.00	RT	64.50	990.74	U-31			916					5		
394-395	U-25	I.R. 70	489+04.00	RT	31.50	993.59	498+25.00	RT	31.50	990.55	U-31			921							
394-395	U-26	I.R. 70	489+04.00	RT	19.17	993.59	498+25.00	RT	19.17	990.55	U-31					921					
394-395	U-27	I.R. 70	489+04.00	LT	76.83	993.68	498+25.00	LT	76.83	990.68	U-32					916			5		
394-395	U-28	I.R. 70	489+04.00	LT	64.50	993.78	498+25.00	LT	64.50	990.74	U-32			916					5		
394-395	U-29	I.R. 70	489+04.00	LT	31.50	993.59	498+25.00	LT	31.50	990.55	U-32			921							
394-395	U-30	I.R. 70	489+04.00	LT	19.17	993.59	498+25.00	LT	19.17	990.55	U-32					921					
395	U-31	I.R. 70	498+25.00	RT	19.17	990.55	498+25.00	RT	100.67	989.74	OUTLET	2							81	1	
395	U-32	I.R. 70	498+25.00	LT	19.17	990.55	498+25.00	LT	99.17	989.76	OUTLET	2							80	1	
395	U-33	I.R. 70	498+30.00	RT	76.83	990.66	508+25.00	RT	76.83	987.38	U-41					990			5		
395	U-34	I.R. 70	498+30.00	RT	64.50	990.72	508+25.00	RT	64.50	987.44	U-41			990					5		
395	U-35	I.R. 70	498+30.00	RT	31.50	990.53	508+25.00	RT	31.50	987.25	U-41			995							
395	U-36	I.R. 70	498+30.00	RT	19.17	990.54	508+25.00	RT	19.17	987.25	U-41					995					
395	U-37	I.R. 70	498+30.00	LT	76.83	990.66	508+25.00	LT	76.83	987.37	U-42					990			5		
395	U-38	I.R. 70	498+30.00	LT	64.50	990.72	508+25.00	LT	64.50	987.44	U-42			990					5		
395	U-39	I.R. 70	498+30.00	LT	31.50	990.53	508+25.00	LT	31.50	987.25	U-42			995							
395	U-40	I.R. 70	498+30.00	LT	19.17	990.54	508+25.00	LT	19.17	987.25	U-42					995					
395	U-41	I.R. 70	508+25.00	RT	19.17	987.25	508+25.00	RT	99.17	986.45	OUTLET	2							80	1	
395	U-42	I.R. 70	508+25.00	LT	19.17	987.25	508+25.00	LT	101.67	986.43	OUTLET	2							83	1	
395	U-43	I.R. 70	508+30.00	RT	76.83	987.36	518+25.00	RT	76.83	982.55	U-52					990			5		
395	U-44	I.R. 70	508+30.00	RT	64.50	987.42	518+25.00	RT	64.50	982.62	U-52			990					5		
395	U-45	I.R. 70	508+30.00	RT	31.50	987.23	518+25.00	RT	31.50	982.42	U-52			995							
TOTALS CARRIED TO SHEET 393												8		17620	0	15970	0		799	4	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
395	U-46	I.R. 70	508+30.00	RT	19.17	987.24	518+25.00	RT	19.17	982.43	U-52					995					
395	U-47	I.R. 70	508+30.00	LT	76.83	987.35	518+25.00	LT	83.75	982.58	U-53					990			5		
395	U-48	I.R. 70	508+30.00	LT	64.50	987.42	518+25.00	LT	73.42	982.50	U-53			990					5		
395	U-49	I.R. 70	508+30.00	LT	31.50	987.23	518+25.00	LT	31.50	982.42	U-53			995							
395	U-50	I.R. 70	508+30.00	LT	19.17	987.24	518+25.00	LT	19.17	982.43	U-53					995					
	U-51	NOT USED																			
395	U-52	I.R. 70	518+25.00	RT	19.17	982.43	518+25.00	RT	99.17	981.75	OUTLET	2							80	1	
395	U-53	I.R. 70	518+25.00	LT	19.17	982.43	518+25.00	LT	107.67	981.66	OUTLET	2							88	1	
395-396	U-54	I.R. 70	518+30.00	RT	76.83	982.52	528+25.00	RT	76.83	976.35	U-63					990			5		
395-396	U-55	I.R. 70	518+30.00	RT	64.50	982.59	528+25.00	RT	64.50	976.42	U-63			990					5		
395-396	U-56	I.R. 70	518+30.00	RT	31.50	982.39	528+25.00	RT	31.50	976.22	U-63			995							
395-396	U-57	I.R. 70	518+30.00	RT	19.17	982.40	528+25.00	RT	19.17	976.23	U-63					995					
395-396	U-58	I.R. 70	518+30.00	LT	83.85	982.55	528+25.00	LT	101.27	975.34	U-64					890			105		
395-396	U-59	I.R. 70	518+30.00	LT	73.52	982.47	528+25.00	LT	93.93	975.20	U-64			895					100		
395-396	U-60	I.R. 70	521+15.90	LT	64.50	982.58	528+25.00	LT	64.50	976.42	U-64			604					105		
395-396	U-61	I.R. 70	518+30.00	LT	31.50	982.39	528+25.00	LT	31.50	976.22	U-64			895					100		
395-396	U-62	I.R. 70	518+30.00	LT	19.17	982.40	528+25.00	LT	19.17	976.23	U-64					895			100		
396	U-63	I.R. 70	528+25.00	RT	19.17	976.23	528+25.00	RT	96.67	975.57	OUTLET	2							78	1	
396	U-64	I.R. 70	528+25.00	LT	19.17	976.23	528+25.00	LT	104.17	974.92	OUTLET	2							85	1	
396	U-65	I.R. 70	528+30.00	RT	76.83	976.32	533+23.24	RT	86.83	972.65	U-80					493					
		S.R. 29 (RAMP D)	533+25.00	RT	8.83		533+96.82	RT	8.83							72					
396	U-66	I.R. 70	528+30.00	RT	64.50	976.39	533+23.24	RT	77.50	972.56	U-80			493							
		S.R. 29 (RAMP D)	533+25.00	LT	0.50		533+96.82	LT	0.50					72							
396	U-67	I.R. 70	530+16.58	RT	64.50	975.23	533+95.00	RT	64.50	972.88	U-80			373					5		
396	U-68	I.R. 70	528+30.00	RT	31.50	976.19	533+95.00	RT	31.50	972.69	U-80			560					5		
396	U-69	I.R. 70	528+30.00	RT	19.17	976.20	533+95.00	RT	19.17	972.70	U-80					560			5		
396	U-70	S.R. 29 (RAMP A)	528+30.00	LT	6.83	975.25	531+70.00	LT	6.83	972.90	U-73					335			5		
396	U-71	S.R. 29 (RAMP A)	528+30.00	LT	0.50	975.10	531+70.00	LT	0.50	972.69	U-73			340							
396	U-72	S.R. 29 (RAMP A)	529+53.32	RT	16.50	974.54	531+70.00	RT	16.50	972.95	U-73			217							
396	U-73	S.R. 29 (RAMP A)	531+70.00	RT	16.50	972.95	531+70.00	LT	29.00	972.41	OUTLET	2							46	1	
396	U-74	S.R. 29 (RAMP A)	533+71.31	LT	0.50	976.28	531+70.00	LT	0.50	972.69	U-73			201							
396	U-75	S.R. 29 (RAMP A)	533+71.31	RT	16.50	976.54	531+70.00	RT	16.50	972.95	U-73			201							
396	U-76	I.R. 70	529+60.00	LT	76.83	975.59	533+95.00	LT	76.83	972.83	U-81					435					
396	U-77	I.R. 70	528+30.00	LT	64.50	976.38	533+95.00	LT	64.50	972.88	U-81			560					5		
396	U-78	I.R. 70	528+30.00	LT	31.50	975.70	533+95.00	LT	31.50	972.69	U-81			565							
396	U-79	I.R. 70	528+30.00	LT	19.17	976.20	533+95.00	LT	19.17	972.70	U-81					560			5		
396	U-80	I.R. 70	533+95.00	RT	87.42	972.65	534+00.00	CL	0.00	971.77	D004								87		
396	U-81	I.R. 70	533+95.00	LT	76.83	972.83	534+00.00	CL	0.00	972.37	D004								77		
396	U-82	S.R. 29 (RAMP D)	534+05.00	RT	8.83	972.59	537+78.88	RT	8.83	970.23	EX. UD					364	10				
396	U-83	S.R. 29 (RAMP D)	534+05.00	LT	1.50	972.51	537+78.88	LT	1.50	970.11	EX. UD			364			10				
396	U-84	I.R. 70	534+05.00	RT	64.50	972.15	547+35.00	RT	64.50	965.79	U-93				1025		300		5		
396	U-85	I.R. 70	534+05.00	RT	31.50	972.63	547+35.00	RT	31.50	966.27	U-93			1030			300				
396	U-86	I.R. 70	534+05.00	RT	19.17	972.63	547+35.00	RT	19.17	966.28	U-93					1025	300		5		
396	U-87	I.R. 70	534+05.00	LT	76.83	972.84	547+35.00	LT	76.83	966.71	U-94					1030	300				
396	U-88	I.R. 70	534+05.00	LT	64.50	972.18	547+35.00	LT	64.50	965.79	U-94				1025		300		5		
396	U-89	I.R. 70	534+05.00	LT	31.50	972.66	547+35.00	LT	31.50	966.27	U-94			1030			300				
396	U-90	I.R. 70	534+05.00	LT	19.17	972.67	547+35.00	LT	19.17	966.28	U-94					1025	300		5		
TOTALS CARRIED TO SHEET 393												10		12371	2050	12649	2120		1121	5	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
	U-91	NOT USED																			
396	U-92	I.R. 70	537+83.00	RT	76.83	970.51	547+35.00	RT	76.83	966.48	U-93					652	300				
396	U-93	I.R. 70	547+35.00	RT	76.83	966.48	547+40.00	CL	0.00	965.95	D005								77		
396	U-94	I.R. 70	547+35.00	LT	76.83	966.71	547+40.00	CL	0.00	965.95	D005								77		
396-397	U-95	I.R. 70	547+45.00	RT	76.83	966.41	558+95.00	RT	76.83	961.17	U-106					1145			5		
396-397	U-96	I.R. 70	547+45.00	RT	64.50	965.75	558+95.00	RT	64.50	960.46	U-106				1145				5		
396-397	U-97	I.R. 70	547+45.00	RT	31.50	966.23	558+95.00	RT	31.50	960.94	U-106			1145					5		
396-397	U-98	I.R. 70	547+45.00	RT	19.17	966.23	558+95.00	RT	19.17	960.94	U-106					1145			5		
396-397	U-99	S.R. 29 (RAMP B)	547+40.00	LT	8.83	965.56	552+00.00	LT	8.83	961.07	U-107					460					
		I.R. 70	552+00.00	LT	86.83		558+95.00	LT	76.83							695					
396-397	U-100	S.R. 29 (RAMP B)	547+40.00	RT	0.50	965.46	552+00.00	RT	0.50	962.71	U-101			460							
		I.R. 70	552+00.00	LT	77.50		555+51.31	LT	64.50					246			100		5		
396-397	U-101	I.R. 70	547+45.00	LT	64.50	965.75	558+95.00	LT	64.50	960.46	U-107				1150						
396-397	U-102	I.R. 70	547+45.00	LT	31.50	966.23	558+95.00	LT	31.50	960.94	U-107			1145					5		
396-397	U-103	I.R. 70	547+45.00	LT	19.17	966.23	558+95.00	LT	19.17	960.94	U-107					1145			5		
397	U-104	S.R. 29 (RAMP C)	556+04.95	RT	8.83	960.89	558+96.94	RT	8.83	960.42	U-106					292					
397	U-105	S.R. 29 (RAMP C)	556+04.95	LT	0.50	960.80	558+96.94	LT	0.50	960.38	U-106			292							
397	U-106	I.R. 70	558+95.00	RT	102.68	960.42	559+00.00	CL	0.00	959.44	D006								103		
397	U-107	I.R. 70	558+95.00	LT	76.83	961.07	559+00.00	CL	0.00	959.81	D006								77		
397	U-108	I.R. 70	559+05.00	RT	102.47	960.41	567+43.00	RT	85.11	957.96	U-117					838					
397	U-109	I.R. 70	559+05.00	RT	93.14	960.35	567+43.00	RT	74.94	957.97	U-117			833					5		
397	U-110	I.R. 70	559+05.00	RT	64.50	960.41	567+43.00	RT	64.50	957.46	U-117				838						
397	U-111	I.R. 70	559+05.00	RT	31.50	960.89	567+43.00	RT	31.50	957.45	U-117			838							
397	U-112	I.R. 70	559+05.00	RT	19.17	960.90	567+43.00	RT	19.17	957.95	U-117					833			5		
397	U-113	I.R. 70	559+05.00	LT	76.83	961.02	567+43.00	LT	76.83	958.13	U-118					838					
397	U-114	I.R. 70	559+05.00	LT	64.50	960.41	567+43.00	LT	64.50	957.46	U-118				838						
397	U-115	I.R. 70	559+05.00	LT	31.50	960.89	567+43.00	LT	31.50	957.94	U-118			833					5		
397	U-116	I.R. 70	559+05.00	LT	19.17	960.90	567+43.00	LT	19.17	957.95	U-118					833			5		
397	U-117	I.R. 70	567+43.00	RT	85.11	957.96	567+48.00	CL	0.00	957.13	D007								85		
397	U-118	I.R. 70	567+43.00	LT	76.83	958.13	567+48.00	CL	0.00	956.80	D007								77		
397-398	U-119	I.R. 70	581+88.00	RT	76.83	961.90	567+43.00	RT	85.11	957.96	U-117					1445					
397-398	U-120	I.R. 70	581+88.00	RT	64.50	961.26	567+43.00	RT	64.50	957.46	U-117				1445						
397-398	U-121	I.R. 70	581+88.00	RT	31.50	961.73	567+43.00	RT	31.50	957.45	U-117			1445							
397-398	U-122	I.R. 70	581+88.00	RT	19.17	961.74	567+43.00	RT	19.17	957.95	U-117					1440			5		
397-398	U-123	I.R. 70	581+88.00	LT	76.83	961.86	567+43.00	LT	76.83	958.13	U-118					1445					
397-398	U-124	I.R. 70	581+88.00	LT	64.50	961.26	567+43.00	LT	64.50	957.46	U-118				1445						
397-398	U-125	I.R. 70	581+88.00	LT	31.50	961.74	567+43.00	LT	31.50	957.94	U-118			1445					5		
397-398	U-126	I.R. 70	581+88.00	LT	19.17	961.74	567+43.00	LT	19.17	957.95	U-118					1440			5		
398	U-127	I.R. 70	582+03.00	RT	76.83	961.94	581+98.00	CL	0.00	960.65	D008								77		
398	U-128	I.R. 70	582+03.00	LT	76.83	961.91	581+98.00	CL	0.00	960.65	D008								77		
398	U-129	I.R. 70	592+95.00	RT	76.83	965.25	582+03.00	RT	76.83	961.94	U-127					1092					
398	U-130	I.R. 70	592+95.00	RT	64.50	964.58	582+03.00	RT	64.50	961.30	U-127				1092						
398	U-131	I.R. 70	592+95.00	RT	31.50	965.06	582+03.00	RT	31.50	961.78	U-127			1092					5		
398	U-132	I.R. 70	592+95.00	RT	19.17	965.06	582+03.00	RT	19.17	961.79	U-127					1087			5		
398	U-133	I.R. 70	592+95.00	LT	76.83	965.22	582+03.00	LT	76.83	961.91	U-128					1092					
398	U-134	I.R. 70	592+95.00	LT	64.50	964.58	582+03.00	LT	64.50	961.30	U-128				1092						
398	U-135	I.R. 70	592+95.00	LT	31.50	965.06	582+03.00	LT	31.50	961.78	U-128			1092					5		
TOTALS CARRIED TO SHEET 393												0		10866	9045	17917	400		734	0	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
398	U-136	I.R. 70	592+95.00	LT	19.17	965.06	582+03.00	LT	19.17	961.79	U-128					1087			5		
398	U-136A	I.R. 70	602+95.00	RT	76.83	968.25	593+00.00	RT	76.83	965.27	U-136I					990			5		
398	U-136B	I.R. 70	602+95.00	RT	64.50	967.58	593+00.00	RT	64.50	964.59	U-136I				995						
398	U-136C	I.R. 70	602+95.00	RT	31.50	968.06	593+00.00	RT	31.50	965.07	U-136I			995							
398	U-136D	I.R. 70	602+95.00	RT	19.17	968.06	593+00.00	RT	19.17	965.08	U-136I					995					
398	U-136E	I.R. 70	602+95.00	LT	76.83	968.23	593+00.00	LT	76.83	965.23	U-136J					990			5		
398	U-136F	I.R. 70	602+95.00	LT	64.50	967.58	593+00.00	LT	64.50	964.59	U-136J				995						
398	U-136G	I.R. 70	602+95.00	LT	31.50	968.06	593+00.00	LT	31.50	965.07	U-136J			995							
398	U-136H	I.R. 70	602+95.00	LT	19.17	968.06	593+00.00	LT	19.17	965.08	U-136J					995					
398	U-136I	I.R. 70	593+00.00	RT	19.17	965.08	593+00.00	RT	106.17	964.18	OUTLET	2							87	1	
398	U-136J	I.R. 70	593+00.00	LT	19.17	965.08	593+00.00	LT	92.67	964.30	OUTLET	2							74	1	
398	U-137	I.R. 70	603+05.00	RT	76.83	968.28	603+00.00	CL	0.00	967.89	D009								77		
398	U-138	I.R. 70	603+05.00	LT	76.83	968.28	603+00.00	CL	0.00	967.89	D009								77		
398-399	U-139	I.R. 70	614+39.35	RT	76.83	971.53	603+05.00	RT	76.83	968.28	U-137					1134					
398-399	U-140	I.R. 70	614+39.35	RT	64.50	971.52	603+05.00	RT	64.50	968.28	U-137			1134							
398-399	U-141	I.R. 70	614+39.35	RT	31.50	971.33	603+05.00	RT	31.50	968.09	U-137			1134							
398-399	U-142	I.R. 70	614+39.35	RT	19.67	971.34	603+05.00	RT	19.67	968.09	U-137					1134					
398-399	U-143	I.R. 70	614+39.35	LT	76.83	971.53	603+05.00	LT	76.83	968.28	U-138					1134					
398-399	U-144	I.R. 70	614+39.35	LT	64.50	971.52	603+05.00	LT	64.50	968.28	U-138			1134							
398-399	U-145	I.R. 70	614+39.35	LT	31.50	971.33	603+05.00	LT	31.50	968.09	U-138			1134							
398-399	U-146	I.R. 70	614+39.35	LT	19.67	971.34	603+05.00	LT	19.67	968.09	U-138					1134					
399	U-147	I.R. 70	614+39.35	RT	76.83	971.53	630+95.00	RT	76.83	945.37	U-155					1656					
399	U-148	I.R. 70	614+39.35	RT	64.50	970.85	630+95.00	RT	64.50	944.70	U-155				1656						
399	U-149	I.R. 70	614+39.35	RT	31.50	971.33	630+95.00	RT	31.50	945.18	U-155			1651					5		
399	U-150	I.R. 70	614+39.35	RT	19.67	971.34	630+95.00	RT	19.67	945.18	U-155					1651			5		
399	U-151	I.R. 70	614+39.35	LT	76.83	971.53	630+95.00	LT	76.83	945.37	U-156					1656					
399	U-152	I.R. 70	614+39.35	LT	64.50	970.85	630+95.00	LT	64.50	944.70	U-156				1656						
399	U-153	I.R. 70	614+39.35	LT	31.50	971.33	630+95.00	LT	31.50	945.18	U-156			1651					5		
399	U-154	I.R. 70	614+39.35	LT	19.67	971.34	630+95.00	LT	19.67	945.18	U-156					1651			5		
399	U-155	I.R. 70	630+95.00	RT	76.83	945.37	631+00.00	CL	0.00	944.05	D010								77		
399	U-156	I.R. 70	630+95.00	LT	76.83	945.37	631+00.00	CL	0.00	944.05	D010								77		
399-400	U-157	I.R. 70	631+05.00	RT	76.83	945.17	637+00.00	RT	76.83	933.31	U-165					595					
399-400	U-158	I.R. 70	631+05.00	RT	64.50	944.50	637+00.00	RT	64.50	932.60	U-165				595						
399-400	U-159	I.R. 70	631+05.00	RT	31.50	944.98	637+00.00	RT	31.50	933.08	U-165			590					5		
399-400	U-160	I.R. 70	631+05.00	RT	19.67	944.98	637+00.00	RT	19.67	933.08	U-165					590			5		
399-400	U-161	I.R. 70	631+05.00	LT	76.83	945.17	637+00.00	LT	76.83	933.32	U-166					595					
399-400	U-162	I.R. 70	631+05.00	LT	64.50	944.50	637+00.00	LT	64.50	932.60	U-166				595						
399-400	U-163	I.R. 70	631+05.00	LT	31.50	944.98	637+00.00	LT	31.50	933.08	U-166			590					5		
399-400	U-164	I.R. 70	631+05.00	LT	19.67	944.98	637+00.00	LT	19.67	933.08	U-166					590			5		
400	U-165	I.R. 70	637+00.00	RT	76.83	933.31	637+00.00	CL	0.00	931.96	D012								77		
400	U-166	I.R. 70	637+00.00	LT	76.83	933.32	637+00.00	CL	0.00	931.96	D012								77		
400	U-167	I.R. 70	637+05.00	RT	76.83	933.20	641+80.00	RT	75.99	924.10	U-175					475					
400	U-168	I.R. 70	637+05.00	RT	64.50	932.98	641+80.00	RT	64.50	924.06	U-175			475							
400	U-169	I.R. 70	637+05.00	RT	31.50	932.98	641+80.00	RT	31.50	923.86	U-175			475							
TOTALS CARRIED TO SHEET 393												4		11959	6491	19052	0		676	2	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
400	U-170	I.R. 70	637+05.00	RT	19.67	932.98	641+80.00	RT	23.37	924.04	U-175					470			5		
400	U-171	I.R. 70	637+05.00	LT	76.83	933.22	641+92.00	LT	76.83	923.90	U-176					487					
400	U-172	I.R. 70	637+05.00	LT	64.50	933.17	641+92.00	LT	64.50	923.89	U-176			487							
400	U-173	I.R. 70	637+05.00	LT	31.50	932.98	641+92.00	LT	31.50	923.70	U-176			487							
400	U-174	I.R. 70	637+05.00	LT	19.67	932.98	641+92.00	LT	23.54	923.88	U-176					482			5		
400	U-175	I.R. 70	641+80.00	RT	75.99	924.10	641+92.00	CL	0.00	923.52	D014								76		
400	U-176	I.R. 70	641+92.00	LT	76.83	923.90	641+92.00	CL	0.00	923.39	D014								77		
400	U-177	I.R. 70	644+80.00	RT	76.83	922.18	644+80.00	CL	0.00	920.85	D015								77		
400	U-178	I.R. 70	644+97.00	LT	75.88	922.26	644+80.00	CL	0.00	920.82	D015								76		
400	U-179	I.R. 70	654+95.00	RT	76.83	937.72	644+80.00	RT	76.83	922.18	U-177					1015					
400	U-180	I.R. 70	654+95.00	RT	64.50	937.08	644+80.00	RT	64.50	921.49	U-177				1015						
400	U-181	I.R. 70	654+95.00	RT	31.50	937.56	644+80.00	RT	31.50	921.97	U-177			1010					5		
400	U-182	I.R. 70	654+95.00	RT	19.17	937.56	644+80.00	RT	23.58	922.15	U-177					1010			5		
400	U-183	I.R. 70	654+95.00	LT	76.83	937.72	644+97.00	LT	75.88	922.26	U-178					998					
400	U-184	I.R. 70	654+95.00	LT	64.50	937.08	644+97.00	LT	64.50	921.52	U-178				998						
400	U-185	I.R. 70	654+95.00	LT	31.50	937.56	644+97.00	LT	31.50	921.99	U-178			993					5		
400	U-186	I.R. 70	654+95.00	LT	19.17	937.56	644+97.00	LT	23.64	922.18	U-178					993			5		
400	U-187	I.R. 70	655+00.00	RT	76.83	937.82	655+00.00	LT	5.00	936.49	D052								82		
400	U-188	I.R. 70	655+00.00	LT	76.83	937.82	655+00.00	LT	5.00	936.59	D052								72		
400-401	U-189	I.R. 70	663+87.00	RT	76.83	951.84	655+00.00	RT	76.83	937.82	U-187					887					
400-401	U-190	I.R. 70	663+87.00	RT	64.50	951.16	655+00.00	RT	64.50	937.18	U-187				887						
400-401	U-191	I.R. 70	663+87.00	RT	31.50	951.64	655+00.00	RT	31.50	937.66	U-187			882					5		
400-401	U-192	I.R. 70	663+87.00	RT	19.17	951.65	655+00.00	RT	19.17	937.66	U-187					882			5		
400-401	U-193	I.R. 70	663+87.00	LT	76.83	951.83	655+00.00	LT	76.83	937.82	U-188					887					
400-401	U-194	I.R. 70	663+87.00	LT	64.50	951.16	655+00.00	LT	64.50	937.18	U-188				887						
400-401	U-195	I.R. 70	663+87.00	LT	31.50	951.64	655+00.00	LT	31.50	937.66	U-188			882					5		
400-401	U-196	I.R. 70	663+87.00	LT	19.17	951.65	655+00.00	LT	19.17	937.66	U-188					882			5		
401	U-197	I.R. 70	663+92.00	RT	76.83	951.86	663+92.00	LT	13.00	951.35	D055								90		
401	U-198	I.R. 70	663+92.00	LT	76.83	951.85	663+92.00	LT	13.00	951.61	D055								64		
401	U-199	I.R. 70	673+70.00	RT	76.83	955.40	663+92.00	RT	76.83	951.86	U-197					978					
401	U-200	I.R. 70	673+70.00	RT	64.50	955.40	663+92.00	RT	64.50	951.86	U-197			978							
401	U-201	I.R. 70	673+70.00	RT	31.50	955.21	663+92.00	RT	31.50	951.67	U-197			978							
401	U-202	I.R. 70	673+70.00	RT	19.17	955.21	663+92.00	RT	19.17	951.67	U-197					978					
401	U-203	I.R. 70	673+70.00	LT	76.83	955.43	663+92.00	LT	76.83	951.85	U-198					978					
401	U-204	I.R. 70	673+70.00	LT	64.50	955.40	663+92.00	LT	64.50	951.86	U-198			973					5		
401	U-205	I.R. 70	673+70.00	LT	31.50	955.21	663+92.00	LT	31.50	951.67	U-198			978							
401	U-206	I.R. 70	673+70.00	LT	19.17	955.21	663+92.00	LT	19.17	951.67	U-198					978					
401	U-207	I.R. 70	673+80.00	RT	76.83	955.45	673+75.00	CL	0.00	955.05	D018								77		
401	U-208	I.R. 70	673+80.00	LT	76.83	955.46	673+75.00	CL	0.00	955.05	D018								77		
401	U-209	I.R. 70	683+73.68	RT	76.83	957.93	673+80.00	RT	76.83	955.45	U-207					994					
401	U-210	I.R. 70	683+73.68	RT	64.50	957.99	673+80.00	RT	64.50	955.44	U-207			994							
401	U-211	I.R. 70	683+73.68	RT	31.50	957.79	673+80.00	RT	31.50	955.25	U-207			994							
401	U-212	I.R. 70	683+73.68	RT	19.17	957.80	673+80.00	RT	19.17	955.25	U-207					994					
401	U-213	I.R. 70	683+73.68	LT	76.83	957.96	673+80.00	LT	76.83	955.46	U-208					994					
401	U-214	I.R. 70	683+73.68	LT	64.50	957.99	673+80.00	LT	64.50	955.44	U-208			994							
TOTALS CARRIED TO SHEET 393												0		11629	3787	15886	0		822	0	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
401	U-215	I.R. 70	683+73.68	LT	31.50	957.80	673+80.00	LT	31.50	955.25	U-208			994							
401	U-216	I.R. 70	683+73.68	LT	19.17	957.80	673+80.00	LT	19.17	955.25	U-208					994					
401-402	U-217	I.R. 70	683+73.68	RT	76.83	957.93	692+50.00	RT	76.83	955.47	U-225					876					
401-402	U-218	I.R. 70	683+73.68	RT	64.50	957.99	692+50.00	RT	64.50	956.07	U-225			871					5		
401-402	U-219	I.R. 70	683+73.68	RT	31.50	957.80	692+50.00	RT	31.50	955.88	U-225			876							
401-402	U-220	I.R. 70	683+73.68	RT	19.17	957.80	692+50.00	RT	19.17	955.89	U-225					876					
401-402	U-221	I.R. 70	683+73.68	LT	76.83	957.96	692+50.00	LT	76.83	955.99	U-226					871			5		
401-402	U-222	I.R. 70	683+73.68	LT	64.50	957.99	692+50.00	LT	64.50	956.07	U-226			871					5		
401-402	U-223	I.R. 70	683+73.68	LT	31.50	957.80	692+50.00	LT	31.50	955.88	U-226			876							
401-402	U-224	I.R. 70	683+73.68	LT	19.17	957.80	692+50.00	LT	19.17	955.89	U-226					876					
402	U-225	I.R. 70	692+50.00	RT	19.17	955.89	692+50.00	RT	95.67	955.29	OUTLET								76		
402	U-226	I.R. 70	692+50.00	LT	19.17	955.89	692+50.00	LT	95.67	955.24	OUTLET								77		
402	U-227	I.R. 70	692+55.00	RT	76.83	955.85	701+95.00	RT	76.83	952.80	U-235					940					
402	U-228	I.R. 70	692+55.00	RT	64.50	956.06	701+95.00	RT	64.50	952.86	U-235			935					5		
402	U-229	I.R. 70	692+55.00	RT	31.50	955.87	701+95.00	RT	31.50	952.67	U-235			940							
402	U-230	I.R. 70	692+55.00	RT	19.17	955.87	701+95.00	RT	19.17	952.68	U-235					935			5		
402	U-231	I.R. 70	692+55.00	LT	76.83	955.97	701+95.00	LT	76.83	952.79	U-236					935			5		
402	U-232	I.R. 70	692+55.00	LT	64.50	956.06	701+95.00	LT	64.50	952.86	U-236			940							
402	U-233	I.R. 70	692+55.00	LT	31.50	955.87	701+95.00	LT	31.50	952.67	U-236			940							
402	U-234	I.R. 70	692+55.00	LT	19.17	955.87	701+95.00	LT	19.17	952.68	U-236					935			5		
402	U-235	I.R. 70	701+95.00	RT	76.83	952.80	702+00.00	CL	0.00	952.35	D019								77		
402	U-236	I.R. 70	701+95.00	LT	76.83	952.79	702+00.00	CL	0.00	952.35	D019								77		
402	U-237	I.R. 70	702+05.00	RT	76.83	952.76	711+93.00	RT	76.83	949.40	U-245					988					
402	U-238	I.R. 70	702+05.00	RT	64.50	952.83	711+93.00	RT	64.50	949.47	U-245			983					5		
402	U-239	I.R. 70	702+05.00	RT	31.50	952.63	711+93.00	RT	31.50	949.28	U-245			988							
402	U-240	I.R. 70	702+05.00	RT	19.17	952.64	711+93.00	RT	19.17	949.28	U-245					988					
402	U-241	I.R. 70	702+05.00	LT	76.83	952.74	711+93.00	LT	76.83	949.44	U-246					988					
402	U-242	I.R. 70	702+05.00	LT	64.50	952.83	711+93.00	LT	64.50	949.47	U-246			983					5		
402	U-243	I.R. 70	702+05.00	LT	31.50	952.64	711+93.00	LT	31.50	949.28	U-246			988							
402	U-244	I.R. 70	702+05.00	LT	19.17	952.64	711+93.00	LT	19.17	949.28	U-246					988					
402	U-245	I.R. 70	711+93.00	RT	76.83	949.40	711+98.00	CL	0.00	949.08	D020								77		
402	U-246	I.R. 70	711+93.00	LT	76.83	949.44	711+98.00	CL	0.00	949.08	D020								77		
402-403	U-247	I.R. 70	712+03.00	RT	76.83	949.37	721+93.00	RT	76.83	946.00	U-255					990					
402-403	U-248	I.R. 70	712+03.00	RT	64.50	949.43	721+93.00	RT	64.50	946.07	U-255			985					5		
402-403	U-249	I.R. 70	712+03.00	RT	31.50	949.24	721+93.00	RT	31.50	945.88	U-255			990							
402-403	U-250	I.R. 70	712+03.00	RT	19.17	949.25	721+93.00	RT	19.17	945.88	U-255					990					
402-403	U-251	I.R. 70	712+03.00	LT	76.83	949.41	721+93.00	LT	76.83	946.04	U-256					990					
402-403	U-252	I.R. 70	712+03.00	LT	64.50	949.43	721+93.00	LT	64.50	946.07	U-256			985					5		
402-403	U-253	I.R. 70	712+03.00	LT	31.50	949.24	721+93.00	LT	31.50	945.88	U-256			990							
402-403	U-254	I.R. 70	712+03.00	LT	19.17	949.25	721+93.00	LT	19.17	945.88	U-256					990					
403	U-255	I.R. 70	721+93.00	RT	76.83	946.00	721+98.00	CL	0.00	945.68	D021								77		
403	U-256	I.R. 70	721+93.00	LT	76.83	946.04	721+98.00	CL	0.00	945.68	D021								77		
403	U-257	I.R. 70	722+03.00	RT	76.83	946.01	729+16.00	RT	76.83	942.98	U-255					713					
403	U-258	I.R. 70	722+03.00	RT	64.50	946.03	729+16.00	RT	64.50	942.97	U-255			708					5		
403	U-259	I.R. 70	722+03.00	RT	31.50	945.84	729+16.00	RT	31.50	942.78	U-255			713							
TOTALS CARRIED TO SHEET 393												0		17557	0	16864	0		674	0	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
403	U-260	I.R. 70	722+03.00	RT	19.17	945.85	729+16.00	RT	19.17	942.78	U-255					713					
403	U-261	I.R. 70	722+03.00	LT	76.83	946.01	729+16.00	LT	76.83	942.98	U-256					713					
403	U-262	I.R. 70	722+03.00	LT	64.50	946.03	729+16.00	LT	64.50	942.97	U-256			713							
403	U-263	I.R. 70	722+03.00	LT	31.50	945.84	729+16.00	LT	31.50	942.78	U-256			713							
403	U-264	I.R. 70	722+03.00	LT	19.17	945.85	729+16.00	LT	19.17	942.78	U-256					713					
403	U-265	I.R. 70	729+16.00	RT	76.83	942.98	729+21.00	CL	0.00	942.58	D022								77		
403	U-266	I.R. 70	729+16.00	LT	76.83	942.98	729+21.00	CL	0.00	942.58	D022								77		
403	U-267	I.R. 70	729+26.00	RT	76.83	942.91	742+93.00	RT	76.83	939.34	U-275					943	424				
403	U-268	I.R. 70	729+26.00	RT	64.50	942.90	742+93.00	RT	64.50	939.35	U-275			938			424		5		
403	U-269	I.R. 70	729+26.00	RT	31.50	942.71	742+93.00	RT	31.50	939.16	U-275			993			374				
403	U-270	I.R. 70	729+26.00	RT	19.17	942.72	742+93.00	RT	19.17	939.16	U-275					993	374				
403	U-271	I.R. 70	729+26.00	LT	76.83	942.91	742+93.00	LT	76.83	939.36	U-276					1043	324				
403	U-272	I.R. 70	729+26.00	LT	64.50	942.90	742+93.00	LT	64.50	939.35	U-276			1043			324				
403	U-273	I.R. 70	729+26.00	LT	31.50	942.71	742+93.00	LT	31.50	939.16	U-276			1093			274				
403	U-274	I.R. 70	729+26.00	LT	19.17	942.72	742+93.00	LT	19.17	939.16	U-276					1093	274				
403	U-275	I.R. 70	742+93.00	RT	76.83	939.34	742+98.00	CL	0.00	938.96	D023								77		
403	U-276	I.R. 70	742+93.00	LT	76.83	939.36	742+98.00	CL	0.00	938.96	D023								77		
403-404	U-277	I.R. 70	743+03.00	RT	76.83	939.29	753+92.00	RT	76.83	935.62	U-285					1089					
403-404	U-278	I.R. 70	743+03.00	RT	64.50	939.32	753+92.00	RT	64.50	935.62	U-285			1089							
403-404	U-279	I.R. 70	743+03.00	RT	31.50	939.13	753+92.00	RT	31.50	935.42	U-285			1089							
403-404	U-280	I.R. 70	743+03.00	RT	19.17	939.14	753+92.00	RT	19.17	935.43	U-285					1084			5		
403-404	U-281	I.R. 70	743+03.00	LT	76.83	939.33	753+92.00	LT	76.83	935.61	U-286					1089					
403-404	U-282	I.R. 70	743+03.00	LT	64.50	939.32	753+92.00	LT	64.50	935.62	U-286			1084					5		
403-404	U-283	I.R. 70	743+03.00	LT	31.50	939.13	753+92.00	LT	31.50	935.43	U-286			1089							
403-404	U-284	I.R. 70	743+03.00	LT	19.17	939.14	753+92.00	LT	19.17	935.43	U-286					1089					
404	U-285	I.R. 70	753+92.00	RT	76.83	935.62	753+97.00	CL	0.00	935.10	D024								77		
404	U-286	I.R. 70	753+92.00	LT	76.83	935.61	753+97.00	CL	0.00	935.23	D024								77		
404	U-287	I.R. 70	754+02.00	RT	76.83	935.59	764+00.00	RT	76.83	928.30	U-295					998					
404	U-288	I.R. 70	754+02.00	RT	64.50	935.58	764+00.00	RT	64.50	928.31	U-295			993					5		
404	U-289	I.R. 70	754+02.00	RT	31.50	935.39	764+00.00	RT	31.50	928.12	U-295			998							
404	U-290	I.R. 70	754+02.00	RT	19.17	935.40	764+00.00	RT	19.17	928.12	U-295					998					
404	U-291	I.R. 70	754+02.00	LT	76.83	935.59	764+00.00	LT	76.83	928.33	U-296					993			5		
404	U-292	I.R. 70	754+02.00	LT	64.50	935.58	764+00.00	LT	64.50	928.31	U-296			993					5		
404	U-293	I.R. 70	754+02.00	LT	31.50	935.39	764+00.00	LT	31.50	928.12	U-296			998							
404	U-294	I.R. 70	754+02.00	LT	19.17	935.40	764+00.00	LT	19.17	928.12	U-296					998					
404	U-295	I.R. 70	764+00.00	RT	19.17	928.12	764+00.00	RT	102.17	927.29	OUTLET	2							83	1	
404	U-296	I.R. 70	764+00.00	LT	19.17	928.12	764+00.00	LT	101.17	927.93	OUTLET	2							82	1	
404-405	U-297	I.R. 70	764+05.00	RT	76.83	928.26	777+43.00	RT	96.96	914.07	U-307					1338					
404-405	U-298	I.R. 70	764+05.00	RT	64.50	928.26	777+43.00	RT	87.60	914.08	U-307			1333					5		
404-405	U-299	I.R. 70	764+05.00	RT	31.50	928.07	777+43.00	RT	31.50	914.96	U-307			1333					5		
404-405	U-300	I.R. 70	764+05.00	RT	19.17	928.07	777+43.00	RT	19.17	914.96	U-307					1333			5		
404-405	U-301	I.R. 70	771+01.04	RT	64.50	921.44	777+43.00	RT	64.50	915.15	U-307			637					5		
404-405	U-302	I.R. 70	764+05.00	LT	76.83	928.28	777+43.00	LT	98.09	914.76	U-308					1338					
404-405	U-303	I.R. 70	764+05.00	LT	64.50	928.26	777+43.00	LT	87.75	914.67	U-308			1338							
404-405	U-304	I.R. 70	764+05.00	LT	31.50	928.07	777+43.00	LT	31.50	914.96	U-308			1333					5		
TOTALS CARRIED TO SHEET 393												4		19800	0	18558	2792		681	2	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
404-405	U-305	I.R. 70	764+05.00	LT	19.17	928.07	777+43.00	LT	19.17	914.96	U-308					1333			5		
404-405	U-306	I.R. 70	768+30.50	LT	64.50	924.09	777+43.00	LT	64.50	915.15	U-308			908					5		
405	U-307	I.R. 70	777+43.00	RT	96.96	914.07	777+48.00	CL	0.00	913.09	D025								97		
405	U-308	I.R. 70	777+43.00	LT	98.09	914.76	777+48.00	CL	0.00	913.79	D025								98		
405	U-309	I.R. 70	779+31.00	RT	76.83	913.27	791+50.00	RT	76.83	901.04	U-317					1214			5		
405	U-310	I.R. 70	777+53.00	RT	64.50	914.38	791+50.00	RT	64.50	900.36	U-317				1397						
405	U-311	I.R. 70	777+53.00	RT	31.50	914.86	791+50.00	RT	31.50	900.84	U-317			1397							
405	U-312	I.R. 70	777+53.00	RT	19.17	914.86	791+50.00	RT	19.17	900.84	U-317					1397					
405	U-313	I.R. 70	780+45.00	LT	76.83	912.11	791+50.00	LT	76.83	901.04	EX. CB					1100			5		
405	U-314	I.R. 70	777+53.00	LT	64.50	914.38	791+50.00	LT	64.50	900.36	U-318				1397						
405	U-315	I.R. 70	777+53.00	LT	31.50	914.86	791+50.00	LT	31.50	900.84	U-318			1397							
405	U-316	I.R. 70	777+53.00	LT	19.17	914.86	791+50.00	LT	19.17	900.84	U-318					1397					
405	U-316A	I.R. 70	791+55.00	RT	76.83	901.02	797+73.00	RT	76.83	899.33	U-316I					613			5		
405	U-316B	I.R. 70	791+55.00	RT	64.50	900.34	797+73.00	RT	64.50	898.55	U-316I				613				5		
405	U-316C	I.R. 70	791+55.00	RT	31.50	900.82	797+73.00	RT	31.50	899.03	U-316I			613					5		
405	U-316D	I.R. 70	791+55.00	RT	19.17	900.83	797+73.00	RT	19.17	899.04	U-316I					613			5		
405	U-316E	I.R. 70	791+55.00	LT	76.83	901.02	797+73.00	LT	76.83	902.33	U-318					613			5		
405	U-316F	I.R. 70	791+55.00	LT	64.50	900.34	797+73.00	LT	64.50	898.55	U-318				613				5		
405	U-316G	I.R. 70	791+55.00	LT	31.50	900.82	797+73.00	LT	31.50	899.03	U-318			613					5		
405	U-316H	I.R. 70	791+55.00	LT	19.17	900.83	797+73.00	LT	19.17	899.04	U-318					613			5		
405	U-316I	I.R. 70	791+50.00	RT	19.17	900.84	791+50.00	RT	108.17	900.32	OUTLET	2							89	1	
405	U-316J	I.R. 70	791+50.00	LT	19.17	900.84	791+50.00	LT	115.17	899.98	OUTLET	2							96	1	
405	U-317	I.R. 70	797+73.00	RT	98.77	898.75	797+73.00	CL	0.00	897.04	D026								99		
405	U-318	I.R. 70	797+73.00	LT	96.48	897.13	797+73.00	CL	0.00	896.70	D026								97		
405-406	U-319	I.R. 70	797+78.00	RT	98.67	898.75	802+50.00	RT	89.23	897.72	U-329					472					
405-406	U-320	I.R. 70	797+78.00	RT	89.33	898.62	802+50.00	RT	79.89	897.59	U-329			472							
405-406	U-321	I.R. 70	797+78.00	RT	64.50	898.54	802+50.00	RT	64.50	897.17	U-329				472						
405-406	U-322	I.R. 70	797+78.00	RT	31.50	899.02	802+50.00	RT	31.50	897.65	U-329			467					5		
405-406	U-323	I.R. 70	797+78.00	RT	19.17	899.02	802+50.00	RT	19.17	897.65	U-329					467			5		
405-406	U-324	I.R. 70	797+78.00	LT	104.38	897.89	802+50.00	LT	86.83	897.75	U-330					472					
405-406	U-325	I.R. 70	797+78.00	LT	95.01	897.85	802+50.00	LT	77.50	897.63	U-330			472							
405-406	U-326	I.R. 70	797+78.00	LT	64.50	898.54	802+50.00	LT	64.50	897.17	U-330				472						
405-406	U-327	I.R. 70	797+78.00	LT	31.50	899.02	802+50.00	LT	31.50	897.65	U-330			467					5		
405-406	U-328	I.R. 70	797+78.00	LT	19.17	899.02	802+50.00	LT	19.17	897.65	U-330					467			5		
406	U-329	I.R. 70	802+50.00	RT	89.23	897.72	802+50.00	CL	0.00	896.53	D027								89		
406	U-330	I.R. 70	802+50.00	LT	86.83	897.75	802+50.00	CL	0.00	896.53	D027								87		
406	U-331	I.R. 70	802+55.00	RT	89.13	897.71	813+43.00	RT	76.83	894.70	U-341					1088					
406	U-332	I.R. 70	802+55.00	RT	78.79	897.60	809+69.52	RT	64.50	895.08	U-333			610			100		5		
406	U-333	I.R. 70	802+55.00	RT	64.50	897.15	813+43.00	RT	64.50	894.00	U-341				1088						
406	U-334	I.R. 70	802+55.00	RT	31.50	897.63	813+43.00	RT	31.50	894.48	U-341			1083					5		
406	U-335	I.R. 70	802+55.00	RT	19.17	897.64	813+43.00	RT	19.17	894.48	U-341					1083			5		
406	U-336	I.R. 70	802+55.00	LT	86.83	897.72	813+43.00	LT	76.83	894.69	U-342					1088					
406	U-337	I.R. 70	802+55.00	LT	77.50	897.62	805+11.18	LT	64.50	896.41	U-338			151			100		5		
406	U-338	I.R. 70	802+55.00	LT	64.50	897.15	813+43.00	LT	64.50	894.00	U-342				1088						
406	U-339	I.R. 70	802+55.00	LT	31.50	897.63	813+43.00	LT	31.50	894.48	U-342			1083					5		
TOTALS CARRIED TO SHEET 393												4		9732	7140	14030	200		856	2	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Drainage\Sheets\107109_DS001.dgn Sheet 8 3/20/2019 9:52:32 AM mcornett

SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
406	U-340	I.R. 70	802+55.00	LT	19.17	897.64	813+43.00	LT	19.17	894.48	U-342					1083			5		
406	U-341	I.R. 70	813+43.00	RT	76.83	894.70	813+48.00	CL	0.00	893.35	D028								77		
406	U-342	I.R. 70	813+43.00	LT	76.83	894.69	813+48.00	CL	0.00	893.35	D028								77		
406	U-343	I.R. 70	813+53.00	RT	76.83	894.67	820+87.00	RT	75.97	892.92	U-351					734					
406	U-344	I.R. 70	813+53.00	RT	64.50	894.64	820+87.00	RT	64.50	892.88	U-351			734							
406	U-345	I.R. 70	813+53.00	RT	31.50	894.45	820+87.00	RT	31.50	892.69	U-351			734							
406	U-346	I.R. 70	813+53.00	RT	19.17	894.45	820+87.00	RT	24.06	892.91	U-351					729			5		
406	U-347	I.R. 70	813+53.00	LT	76.83	894.65	820+87.00	LT	76.01	892.92	U-352					734					
406	U-348	I.R. 70	813+53.00	LT	64.50	894.64	820+87.00	LT	64.50	892.88	U-352			734							
406	U-349	I.R. 70	813+53.00	LT	31.50	894.45	820+87.00	LT	31.50	892.69	U-352			734							
406	U-350	I.R. 70	813+53.00	LT	19.17	894.45	820+87.00	LT	23.95	892.90	U-352					729			5		
406	U-351	I.R. 70	820+87.00	RT	75.97	892.92	820+87.00	CL	0.00	892.38	D029								76		
406	U-352	I.R. 70	820+87.00	LT	76.01	892.92	820+87.00	CL	0.00	892.38	D029								76		
394 & 407	U-353	U.S. 42 (RAMP B)	470+31.25	LT	0.50	993.27	469+82.26	LT	0.50	993.20	U-355			49							
394 & 407	U-354	U.S. 42 (RAMP B)	470+33.28	RT	16.50	994.14	469+82.26	RT	16.50	993.90	U-355			51							
407	U-355	U.S. 42 (RAMP B)	469+82.26	RT	16.50	993.90	469+82.26	LT	36.50	992.84	OUTLET	2							53	1	
407	U-356	U.S. 42 (RAMP B)	460+98.50	LT	40.60	1008.07	469+82.26	LT	0.50	993.20	U-355			884							
407	U-357	U.S. 42 (RAMP B)	460+75.00	RT	24.50	1009.84	469+82.26	RT	24.50	993.90	U-355			907							
394 & 408	U-358	I.R. 70	470+32.50	RT	93.07	994.14	466+94.14	RT	99.83	991.10	U-361			338							
		U.S. 42 (RAMP C)	466+94.14	RT	8.83		463+46.53	RT	6.83					348							
394 & 408	U-359	I.R. 70	470+32.50	RT	83.73	994.52	466+94.14	RT	90.5	991.64	U-361			338							
		U.S. 42 (RAMP C)	466+94.14	LT	0.50		463+46.53	LT	0.50					348							
408	U-360	U.S. 42 (RAMP C)	464+40.00	LT	16.50	992.81	463+46.53	LT	16.50	992.53	U-361			93							
408	U-361	U.S. 42 (RAMP C)	463+46.53	LT	16.50	992.53	463+46.53	RT	22.50	990.94	OUTLET	2							39	1	
408	U-362	U.S. 42 (RAMP C)	453+20.00	RT	0.50	1007.11	463+46.53	RT	0.50	991.58	U-361			1027							
408	U-363	U.S. 42 (RAMP C)	453+20.00	LT	35.82	1007.67	463+46.53	LT	16.50	992.53	U-361			1027							
408	U-364	U.S. 42 (RAMP C)	453+19.81	RT	0.50	1007.11	449+03.86	RT	0.50	1000.54	U-366			416							
408	U-365	U.S. 42 (RAMP C)	453+00.00	LT	16.50	1007.37	449+03.86	LT	16.50	1001.36	U-366			396							
408	U-366	U.S. 42 (RAMP C)	449+03.86	LT	16.50	1001.36	449+03.86	RT	34.50	1000.37	OUTLET	2							51	1	
408	U-367	U.S. 42 (RAMP C)	453+00.00	LT	19.28	1007.44	451+58.00	LT	92.46	1009.17	U-369			142							
408	U-368	U.S. 42 (RAMP C)	453+19.81	LT	35.82	1007.67	451+86.50	LT	96.75	1009.46	U-370			133							
408	U-369	U.S. 42 (RAMP C)	451+58.00	LT	92.46	1009.17	451+41.83	LT	80.69	1008.95	OUTLET	2							45	1	
408	U-370	U.S. 42 (RAMP C)	451+86.50	LT	96.76	1009.46	452+06.50	LT	96.05	1009.34	OUTLET	2							25	1	
405	U-371	I.R. 70	777+53.00	LT	98.29	914.65	778+30.43	LT	99.83	910.11	U-374					77					
		S.R. 142 (RAMP A)	778+30.43	LT	8.83		781+06.81	LT	6.83							271			5		
405	U-372	I.R. 70	777+53.00	LT	88.77	914.55	778+30.43	LT	90.50	910.09	U-374			77							
		S.R. 142 (RAMP A)	778+30.43	RT	0.50		781+06.81	RT	0.50					276							
405	U-373	S.R. 142 (RAMP A)	780+37.50	RT	16.50	911.55	781+06.81	RT	0.50	910.18	U-374			69							
405	U-374	S.R. 142 (RAMP A)	781+06.81	RT	16.50	910.18	781+06.81	LT	38.50	909.90	OUTLET	2							55	1	
405 & 409	U-375	S.R. 142 (RAMP A)	789+24.50	LT	13.05	919.45	781+06.81	RT	0.50	910.09	U-374			818							
405 & 409	U-376	S.R. 142 (RAMP A)	789+09.00	RT	28.50	919.96	781+06.81	RT	16.50	910.18	U-374			802							
405 & 410	U-377	S.R. 142 (RAMP B)	787+72.50	LT	24.04	918.16	797+72.29	LT	0.50	897.13	U-379				1000						
405 & 410	U-378	S.R. 142 (RAMP B)	787+72.00	RT	17.07	919.59	797+73.88	RT	16.50	898.66	U-379			997					5		
	U-379	NOT USED																			
TOTALS CARRIED TO SHEET 393												12		12473	1000	4358	0		599	6	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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SHEET NO.	REFERENCE NO.	ROADWAY	STATION (FROM)	SIDE (FROM)	OFFSET (FROM)	INVERT (FROM)	STATION (TO)	SIDE (TO)	OFFSET (TO)	INVERT (TO)	OUTLET TYPE	601 TIED CONCRETE BLOCK MAT, TYPE 1		605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" DEEP PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31	605 6" UNCLASSIFIED UNDERDRAINS WITH FABRIC WRAP, 707.31		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 PRECAST REINFORCED CONCRETE OUTLET	
			FROM	LT/RT	FT	FT	TO	LT/RT	FT	FT		SY		FT	FT	FT	FT		FT	EACH	
MAD-70-8.62 - UNDERDRAINS																					
	U-380	NOT USED																			
	U-381	NOT USED																			
405	U-382	S.R. 142 (RAMP C)	795+14.25	RT	6.83	898.26	797+83.00	RT	8.83	898.75	U-317					269					
405 & 411	U-383	S.R. 142 (RAMP C)	786+11.00	RT	0.50	918.50	797+83.00	RT	0.50	897.94	U-317			1172							
405 & 411	U-384	S.R. 142 (RAMP C)	786+25.50	LT	16.50	919.77	796+35.73	LT	16.50	899.66	U-309			905			100		5		
	U-385	NOT USED																			
	U-386	NOT USED																			
	U-387	NOT USED																			
405 & 412	U-388	S.R. 142 (RAMP D)	777+54.00	RT	8.83	913.94	781+03.22	RT	6.83	911.42	U-391					344			5		
405 & 412	U-389	S.R. 142 (RAMP D)	777+54.00	LT	0.50	913.94	781+03.22	LT	0.50	911.40	U-391			349							
405 & 412	U-390	S.R. 142 (RAMP D)	779+25.00	LT	16.50	912.14	781+03.22	LT	16.50	912.01	U-391				178						
412	U-391	S.R. 142 (RAMP D)	781+03.22	LT	16.50	912.01	781+03.22	RT	50.00	911.00	OUTLET	2							67	1	
412	U-392	S.R. 142 (RAMP D)	787+63.00	LT	24.58	919.09	781+03.22	LT	16.50	912.01	U-391				555		100		5		
412	U-393	S.R. 142 (RAMP D)	787+75.00	RT	10.00	919.21	781+03.22	RT	0.50	911.40	U-391			567			100		5		
SUBTOTAL THIS SHEET												2		2993	733	613	300		87	1	
SUBTOTAL SHEET 384												8		17620	0	15970	0		799	4	
SUBTOTAL SHEET 385												10		12371	2050	12649	2120		1121	5	
SUBTOTAL SHEET 386												0		10866	9045	17917	400		734	0	
SUBTOTAL SHEET 387												4		11959	6491	19052	0		676	2	
SUBTOTAL SHEET 388												0		11629	3787	15886	0		822	0	
SUBTOTAL SHEET 389												0		17557	0	16864	0		674	0	
SUBTOTAL SHEET 390												4		19800	0	18558	2792		681	2	
SUBTOTAL SHEET 391												4		9732	7140	14030	200		856	2	
SUBTOTAL SHEET 392												12		12473	1000	4358	0		599	6	
GRAND TOTAL												44		127000	30246	135897	5812		7048	22	

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN SUBSUMMARY

MAD-70-8.62

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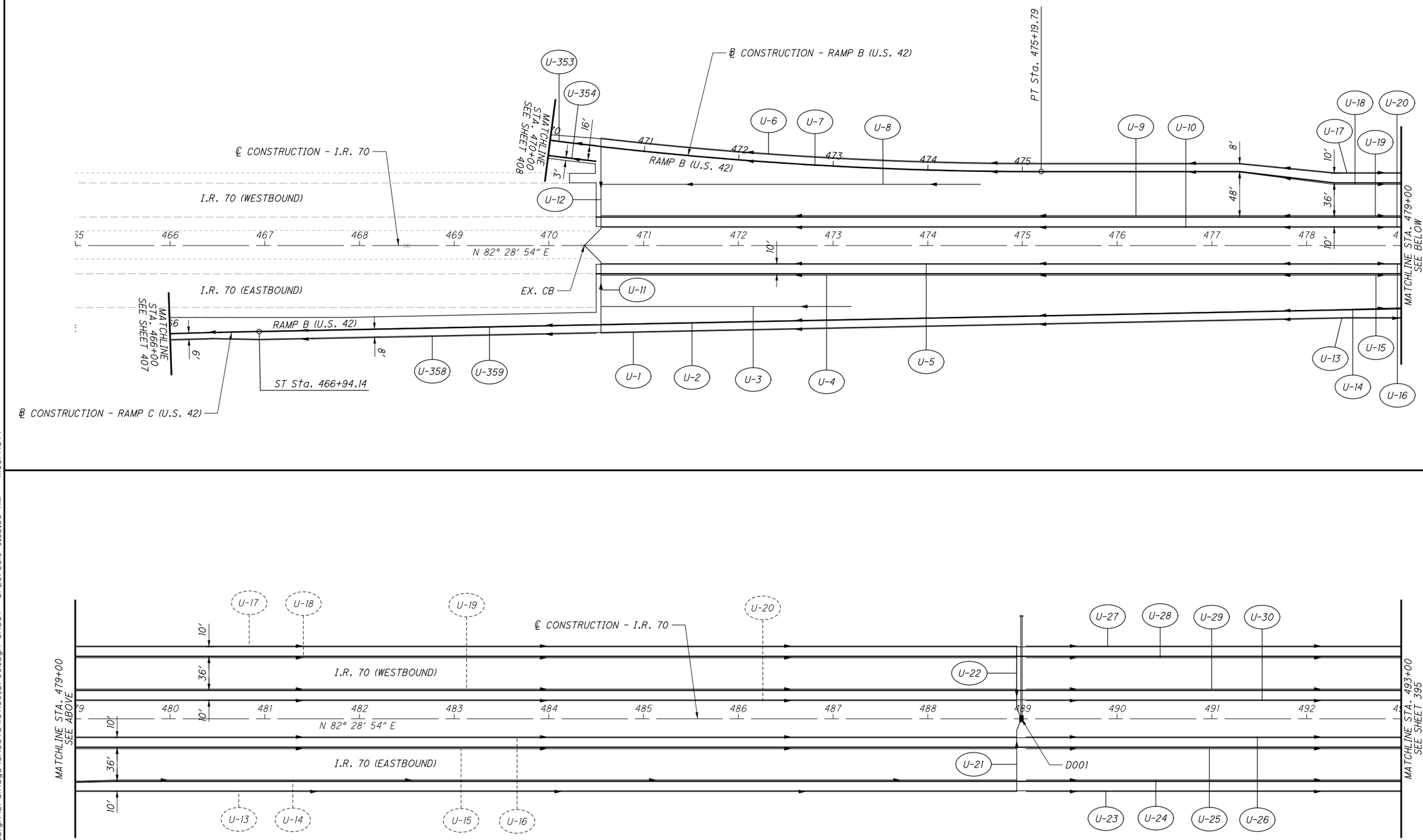

APPROVED FOR CONSTRUCTION - 3/20/2019

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
BEGIN WORK TO STA. 493+00

MAD-70-8.62

394
470

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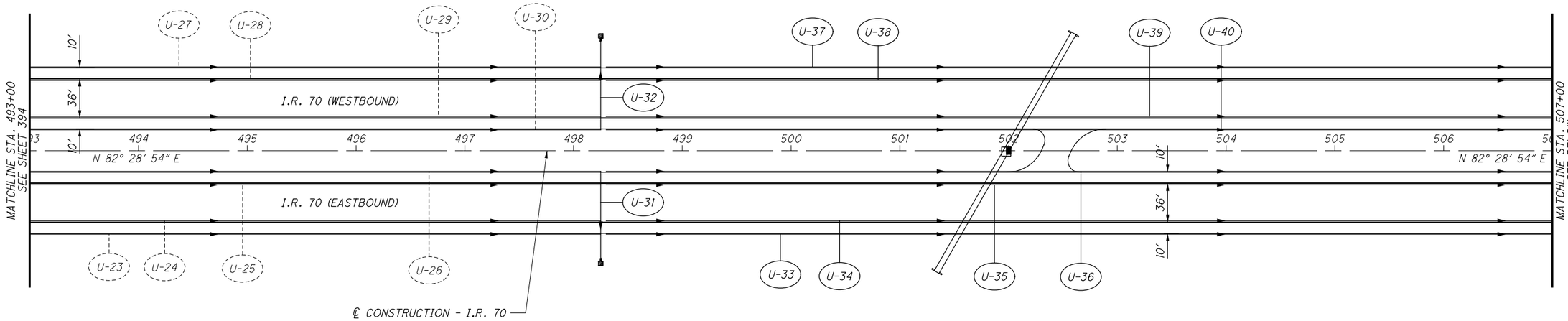

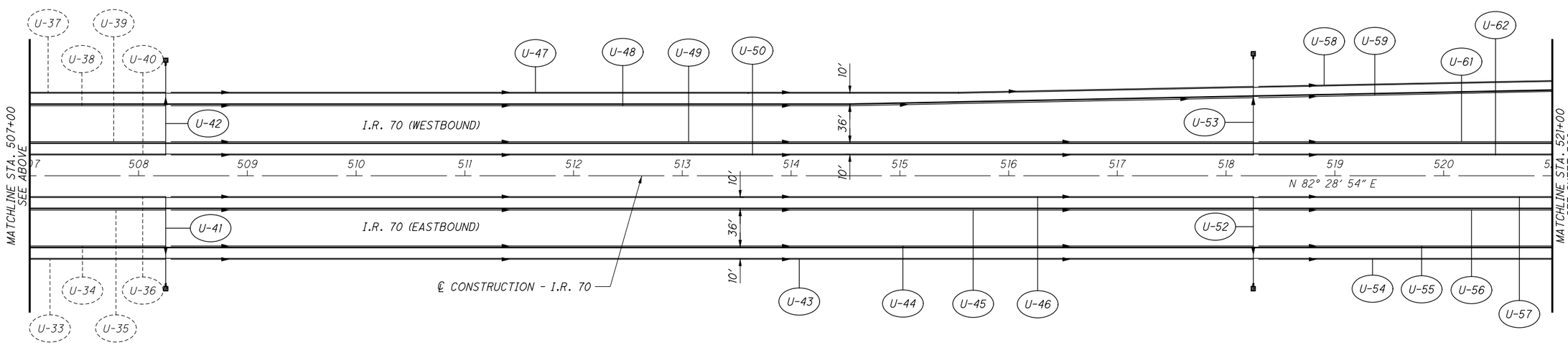

NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN DETAILS
STA. 493+00 TO STA. 521+00

MAD-70-8.62

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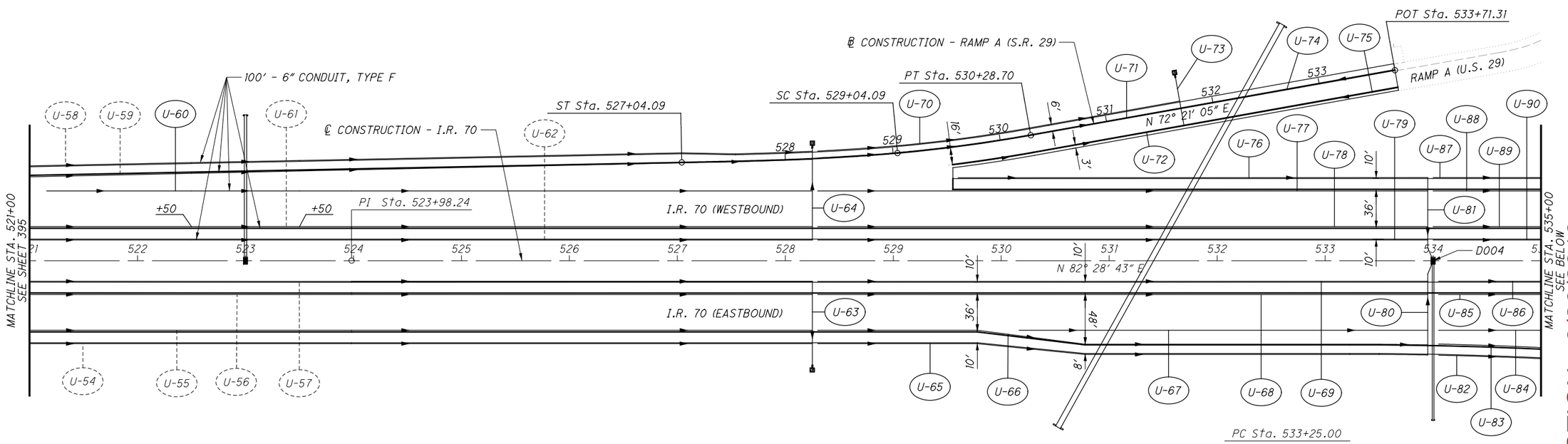

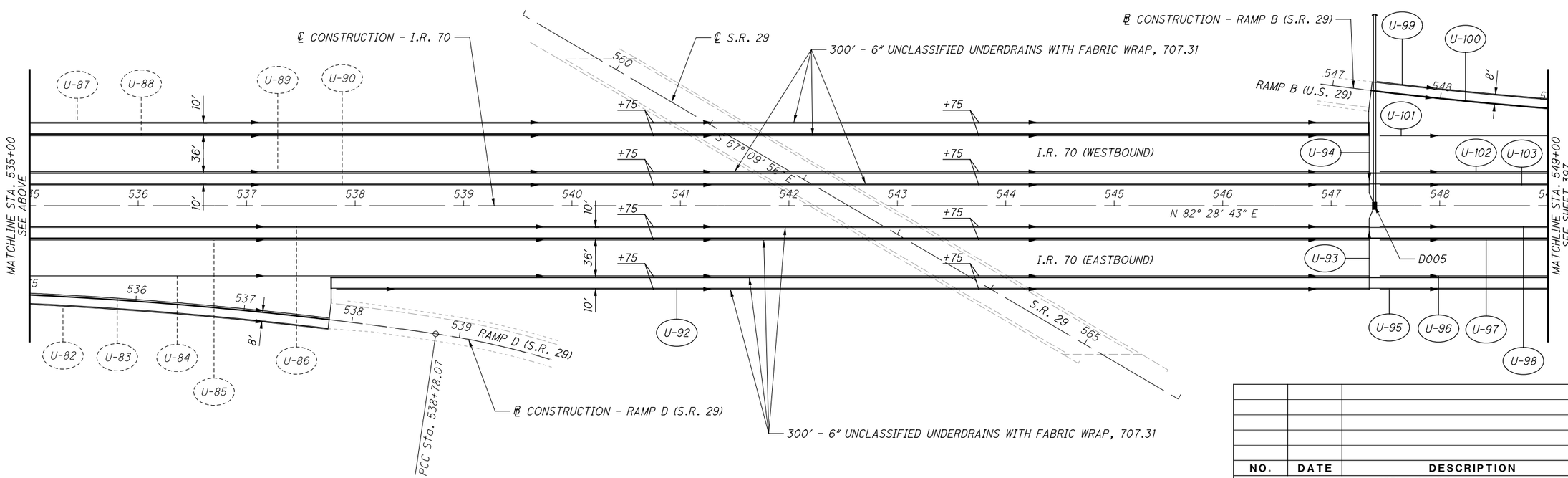

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED MLL
CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

UNDERDRAIN DETAILS
STA. 521+00 TO STA. 549+00

MAD-70-8.62

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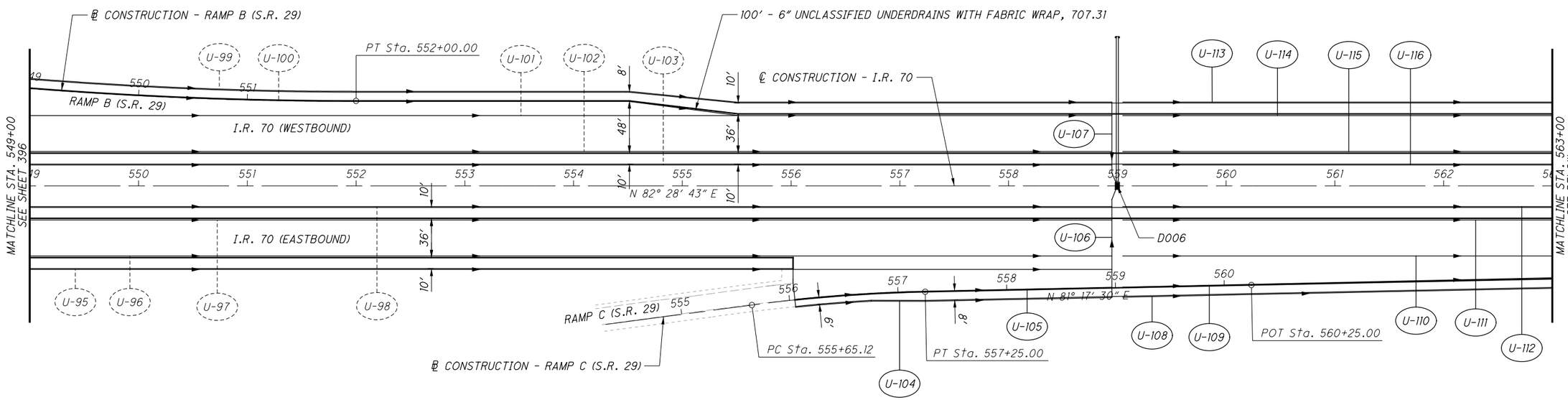

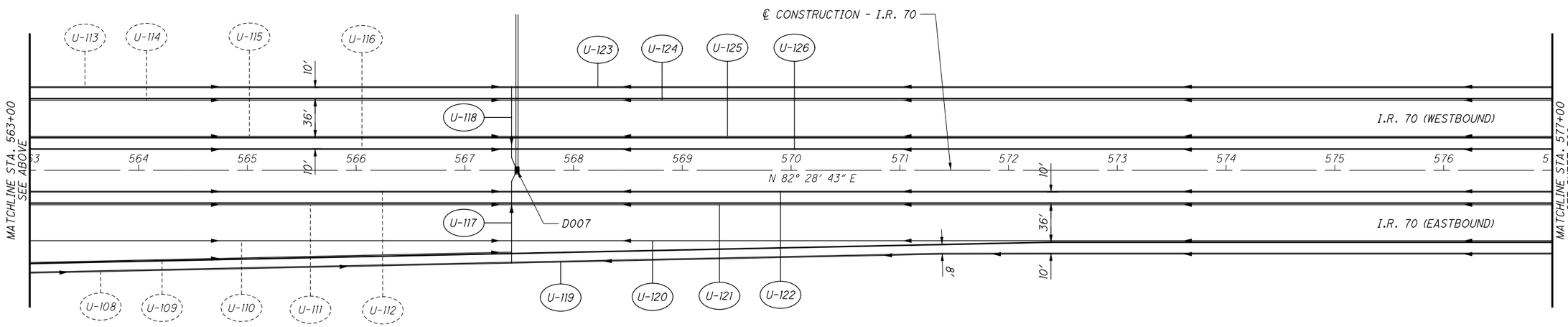

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
STA. 549+00 TO STA. 577+00

MAD-70-8.62

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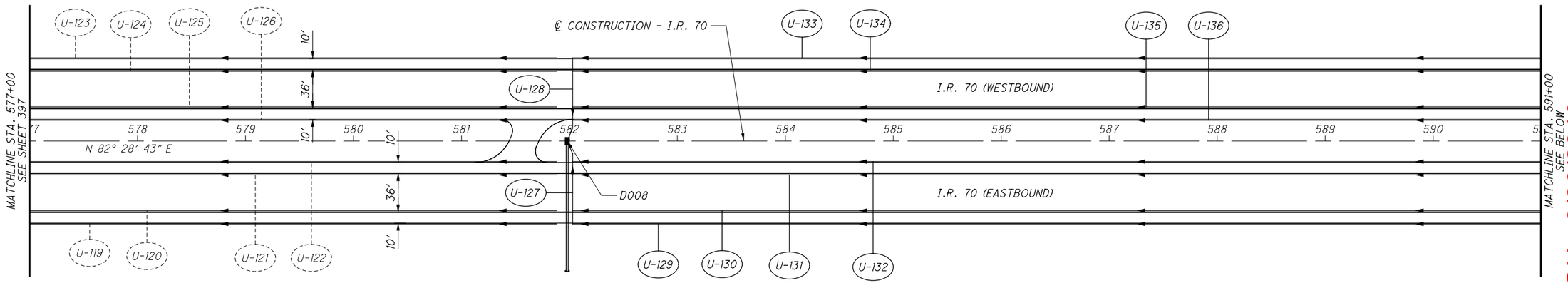

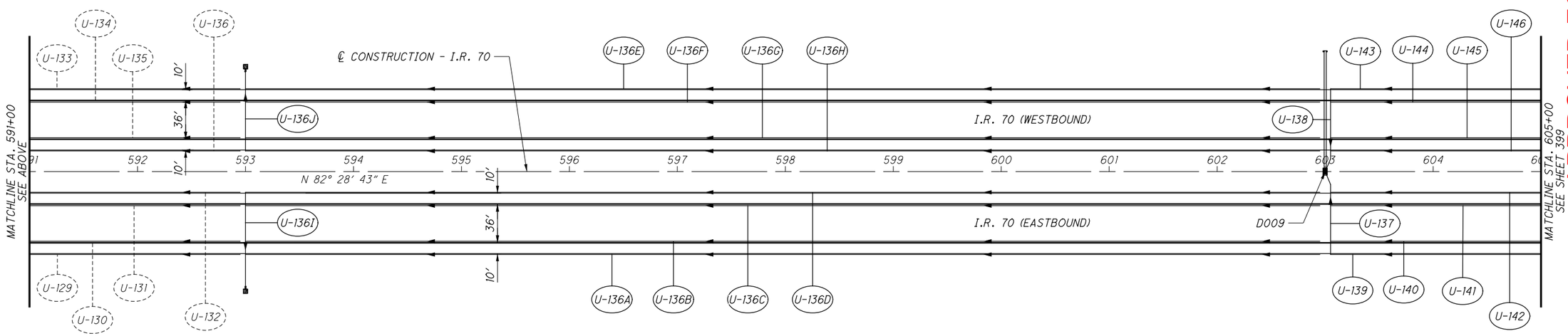

NO.	DATE	DESCRIPTION

ISSUE RECORD

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN DETAILS
STA. 577+00 TO STA. 605+00

MAD-70-8.62

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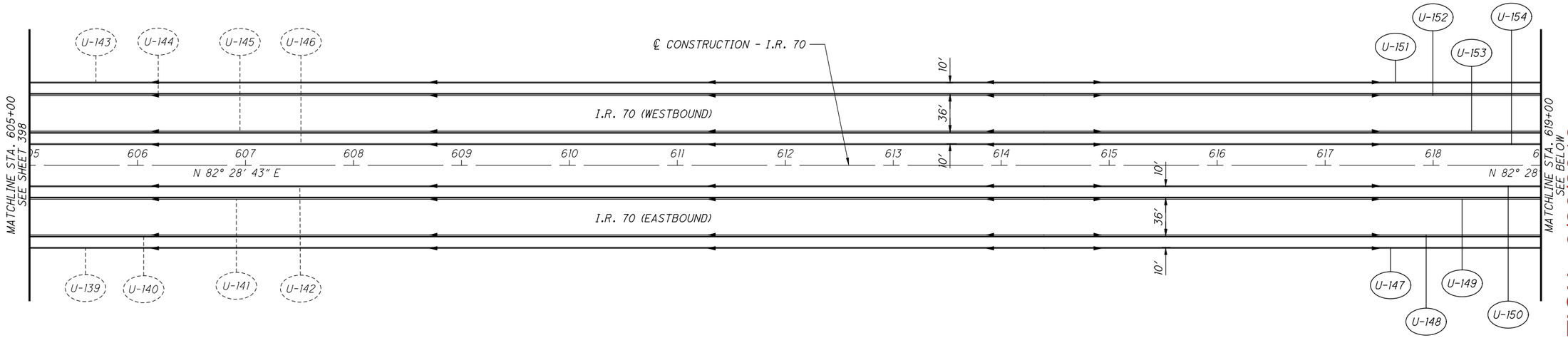

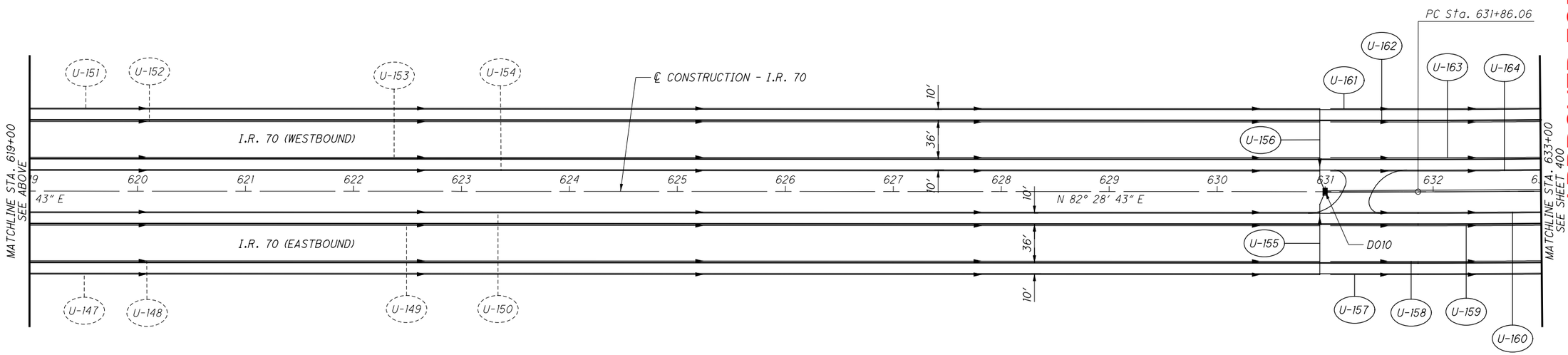

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
STA. 605+00 TO STA. 633+00

MAD-70-8.62

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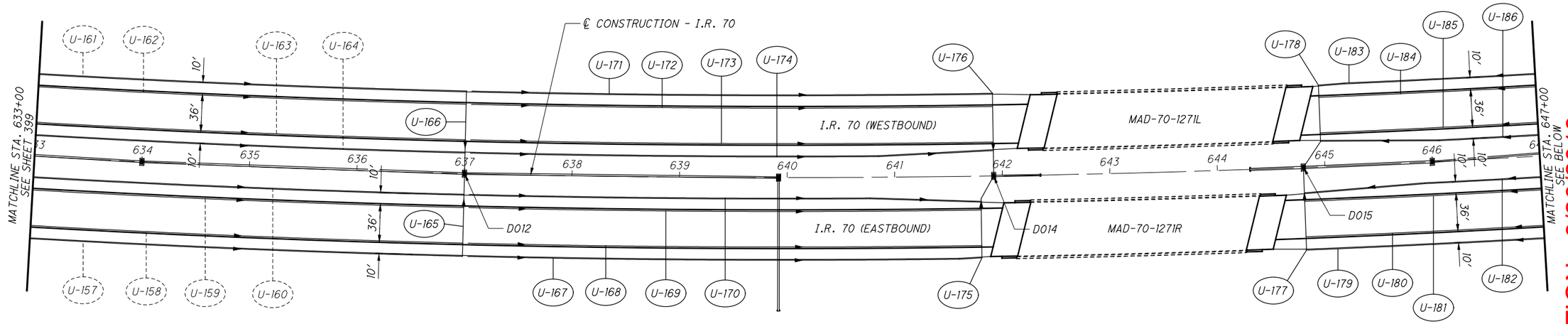

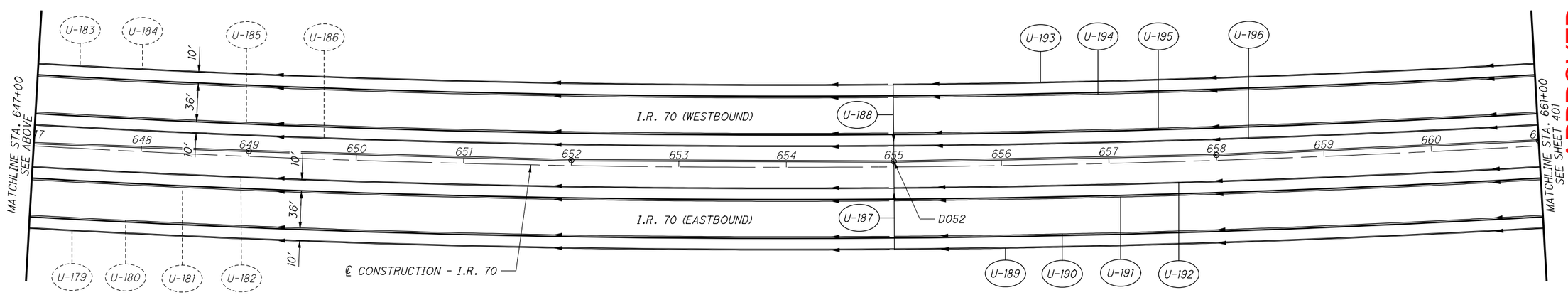

APPROVED FOR CONSTRUCTION - 3/20/2019

NO.	DATE	DESCRIPTION

ISSUE RECORD

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
STA. 633+00 TO STA. 661+00

MAD-70-8.62

400
470

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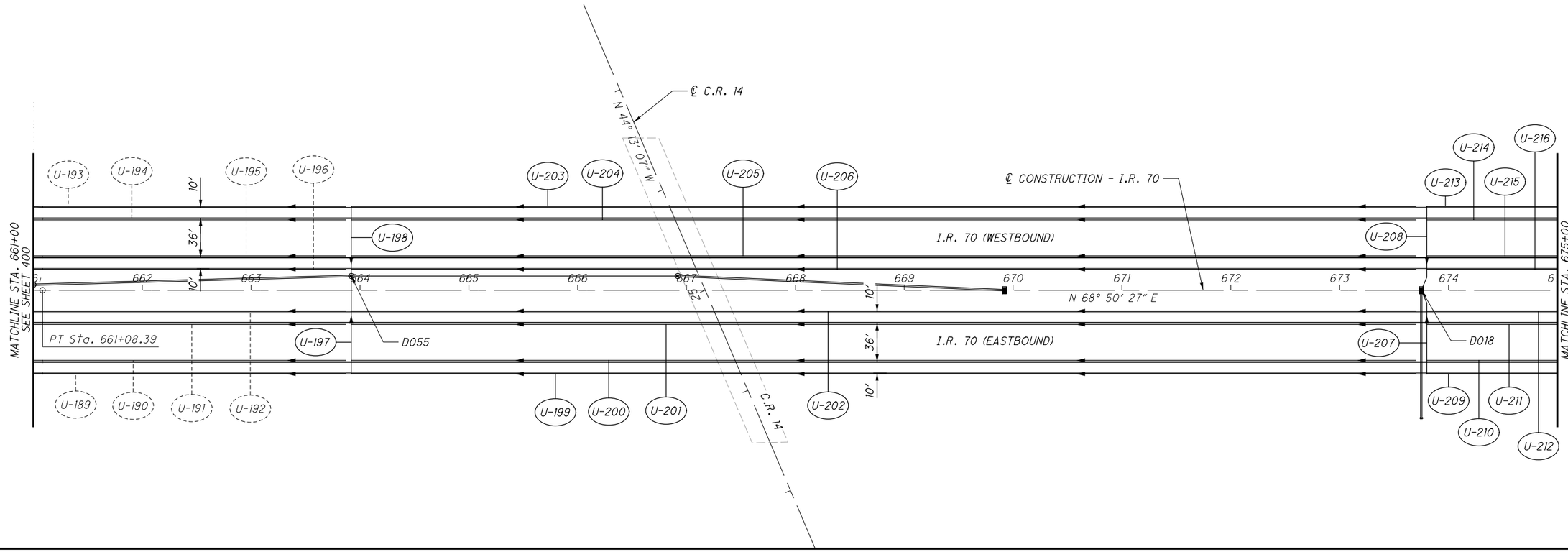

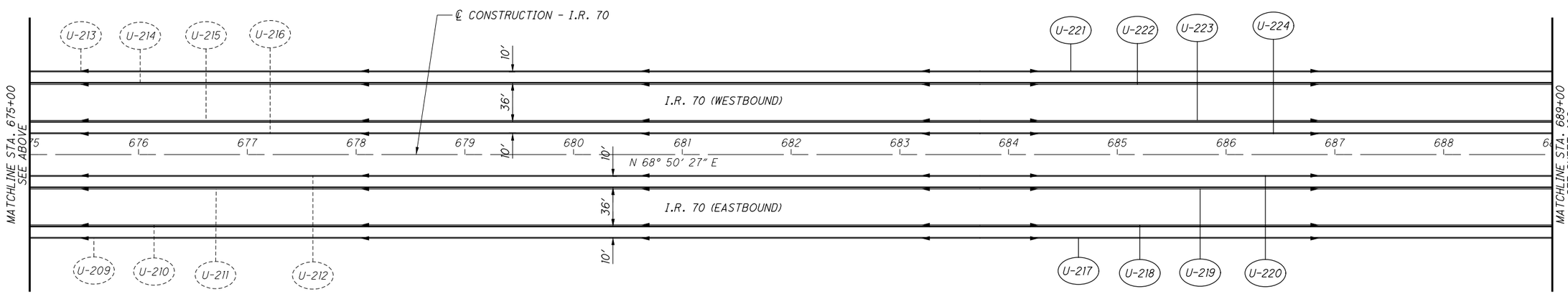

APPROVED FOR CONSTRUCTION - 3/20/2019

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
STA. 661+00 TO STA. 689+00

MAD-70-8.62

401/470

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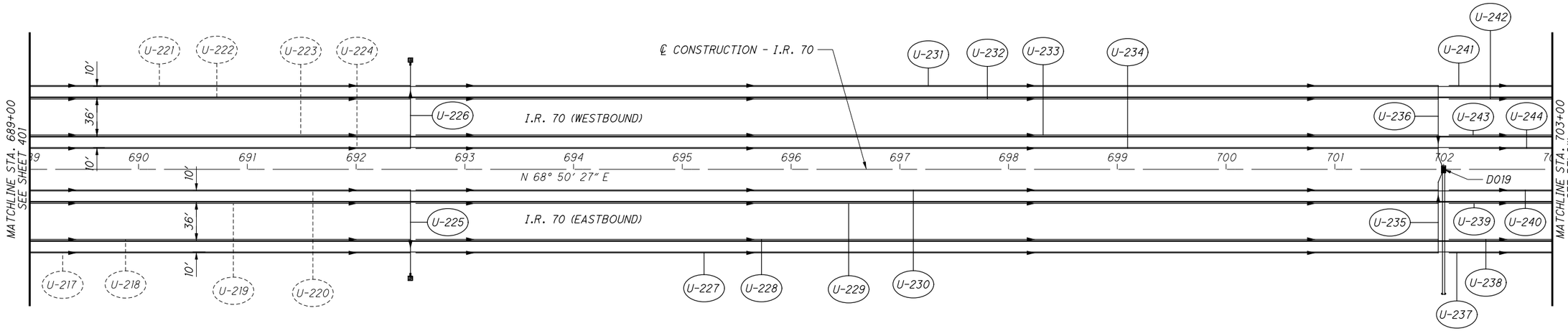
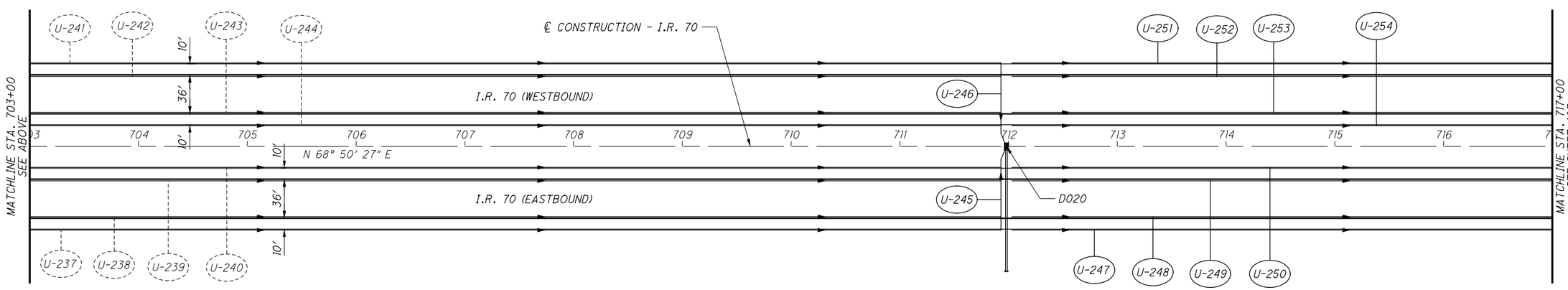




APPROVED FOR CONSTRUCTION - 3/20/2019

NO.	DATE	DESCRIPTION

ISSUE RECORD

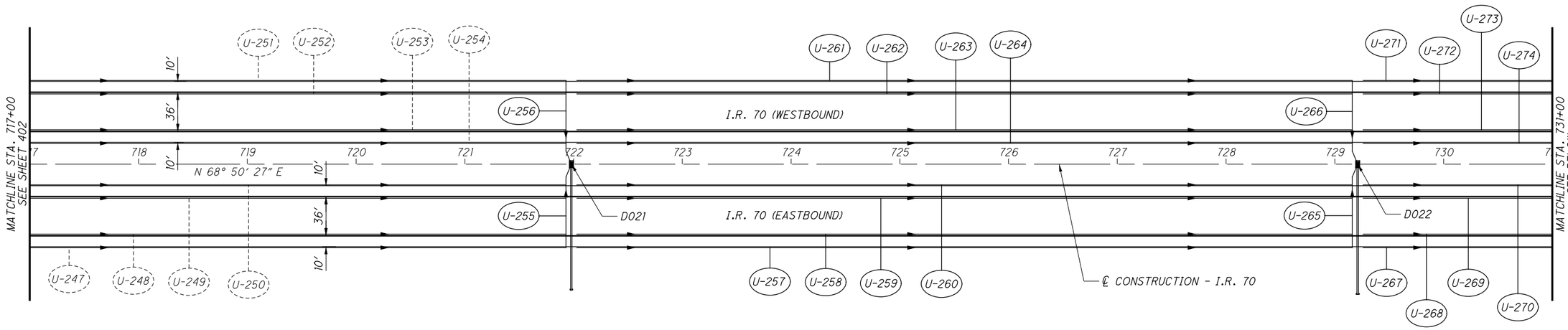
HORIZONTAL SCALE IN FEET
0 25 50 100

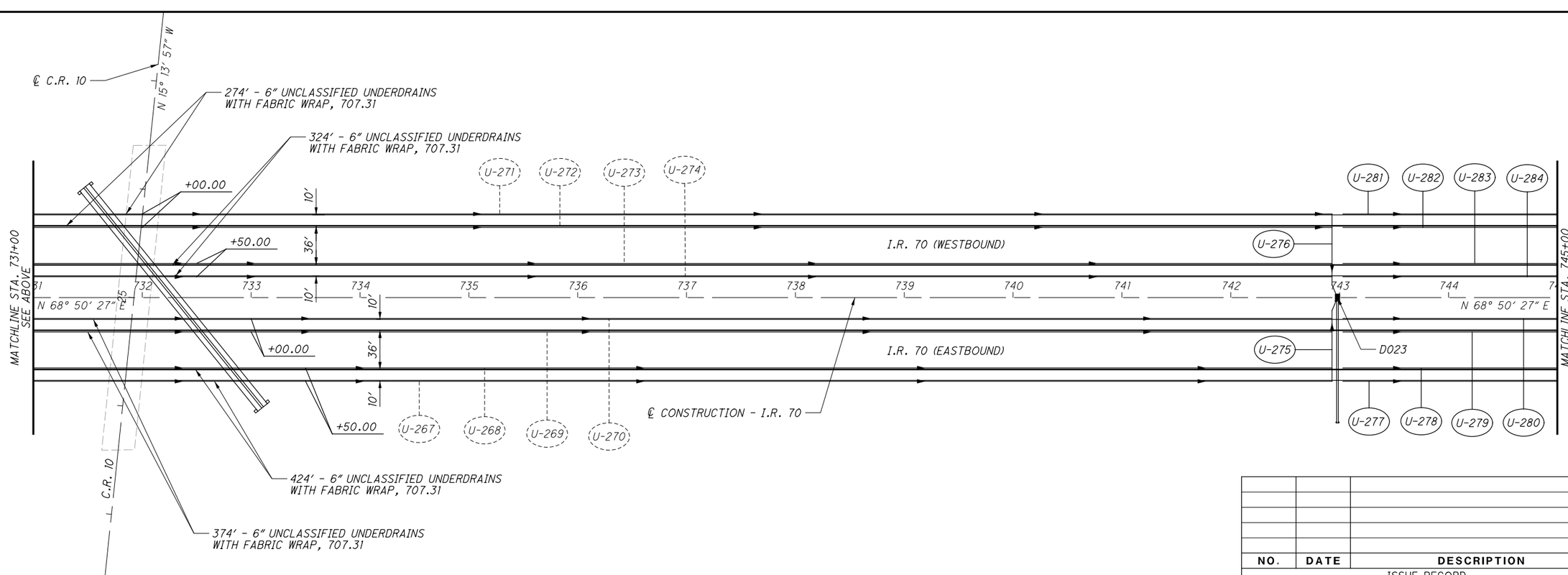
CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
STA. 689+00 TO STA. 717+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Drainage\Sheets\107109_DP009.dgn Sheet 3/20/2019 9:52:50 AM mcornett





NO.	DATE	DESCRIPTION

ISSUE RECORD

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN DETAILS
STA. 717+00 TO STA. 745+00

MAD-70-8.62

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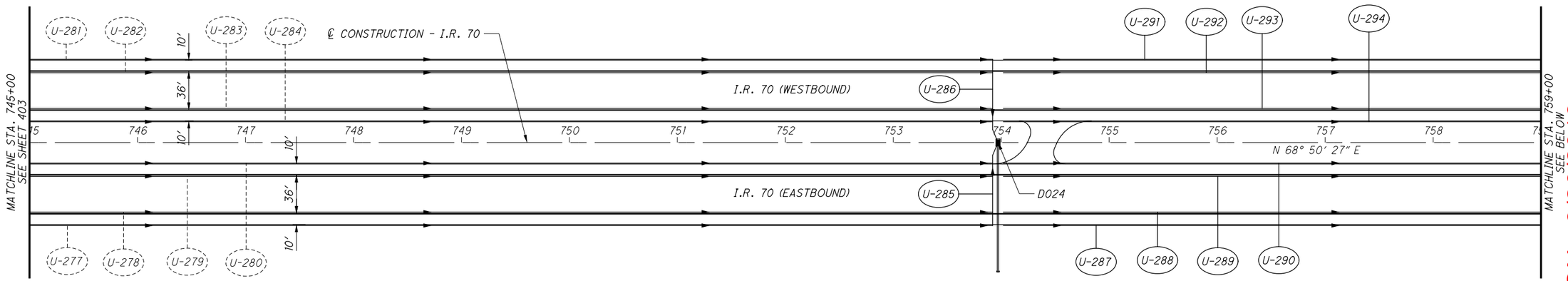

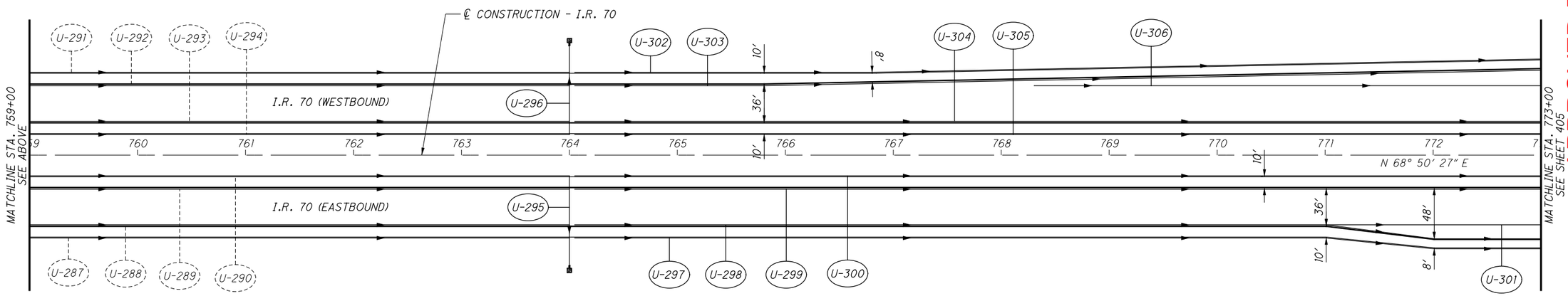

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED MLL
CHECKED MJC

UNDERDRAIN DETAILS
STA. 745+00 TO STA. 773+00

MAD-70-8.62

NO.	DATE	DESCRIPTION

ISSUE RECORD

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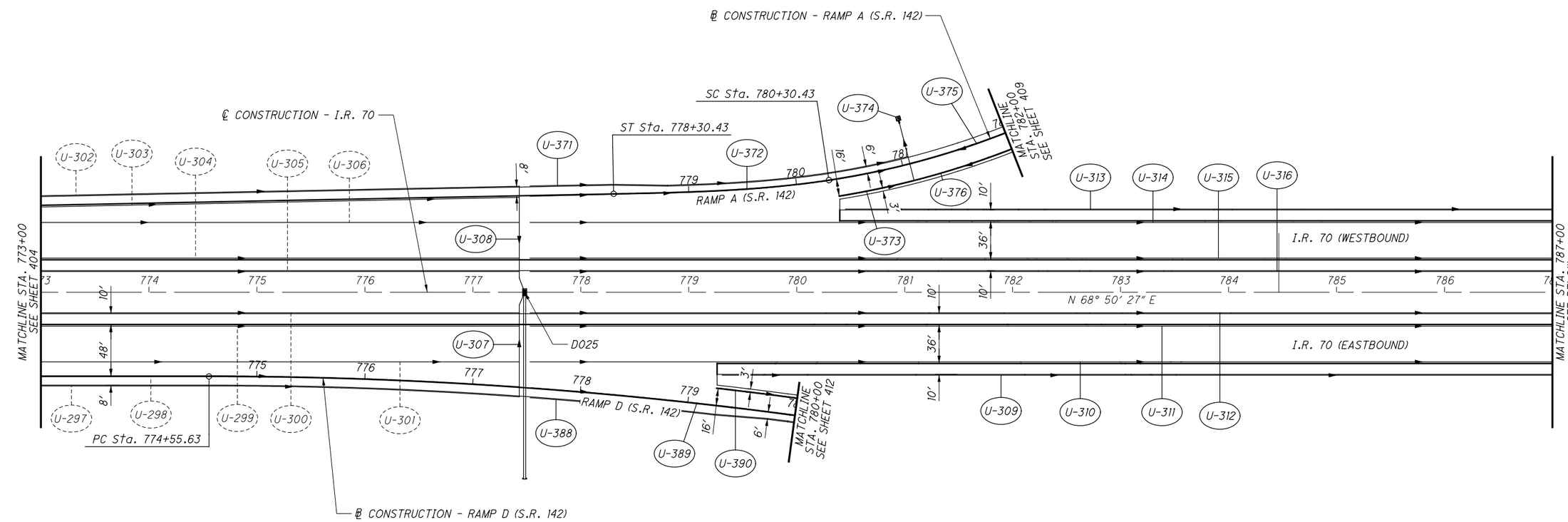
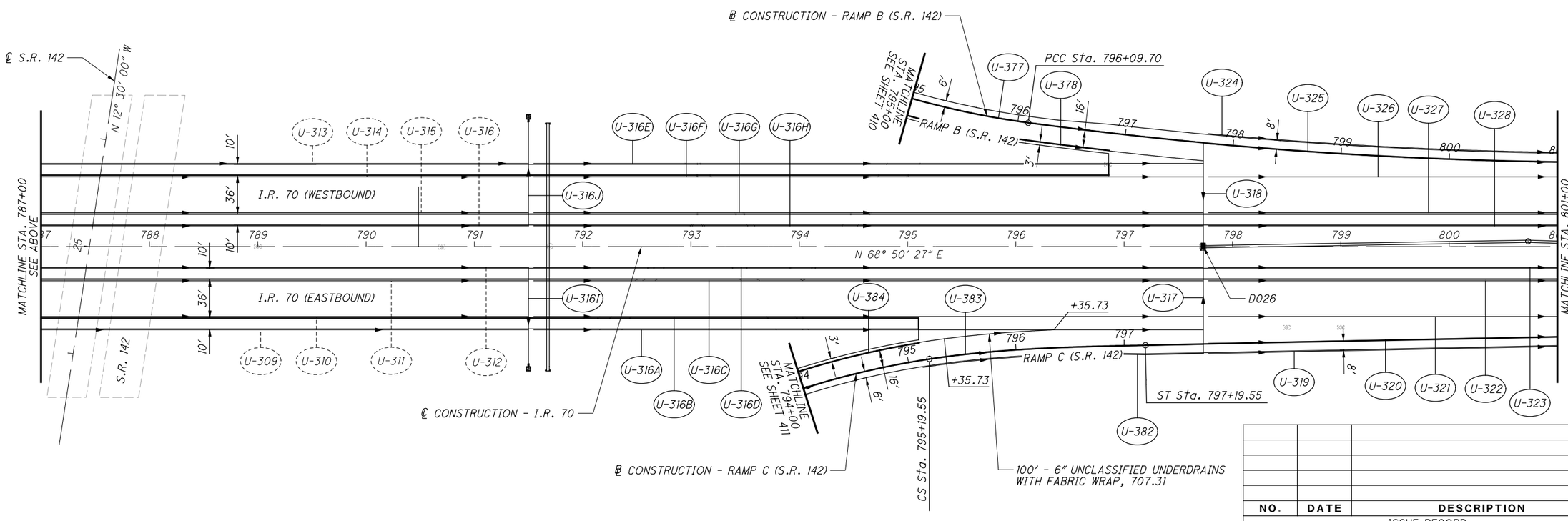




NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

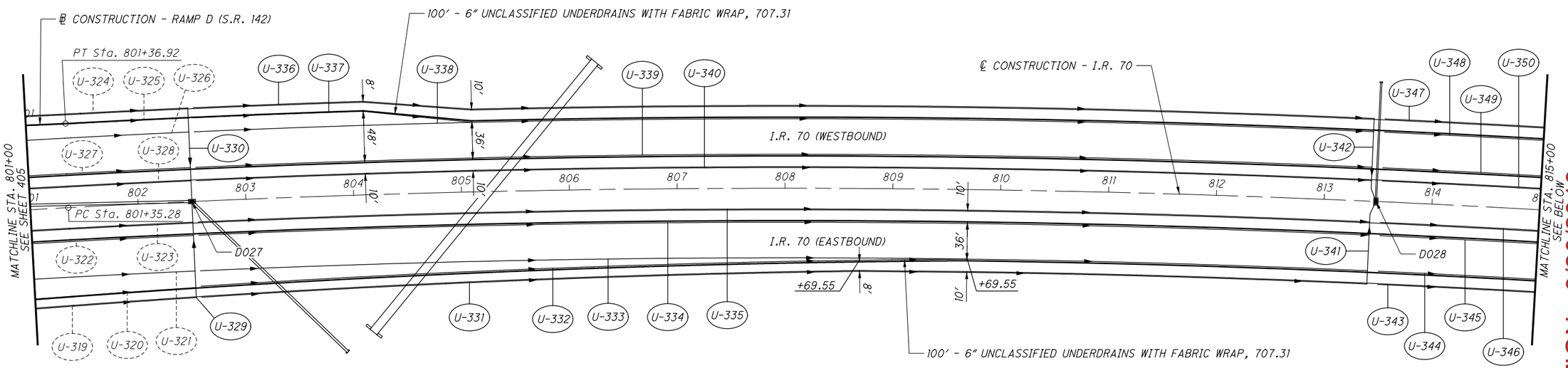
APPROVED FOR CONSTRUCTION - 3/20/2019

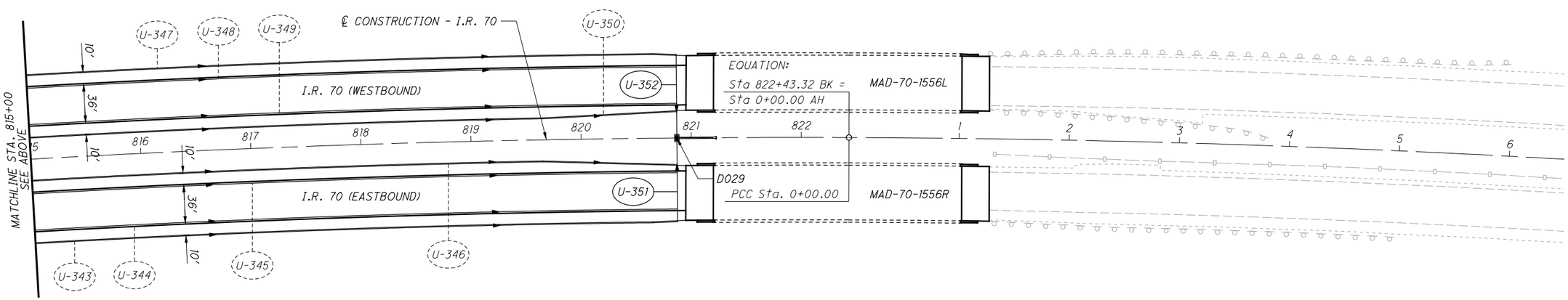
UNDERDRAIN DETAILS
STA. 773+00 TO STA. 801+00

MAD-70-8.62

405
470

P:\107109_MAD-70-8.62DB\Design\Drainage\Sheets\107109_DP012.dgn Sheet 3/20/2019 9:52:53 AM mcornett





NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN DETAILS
STA. 801+00 TO END WORK

MAD-70-8.62

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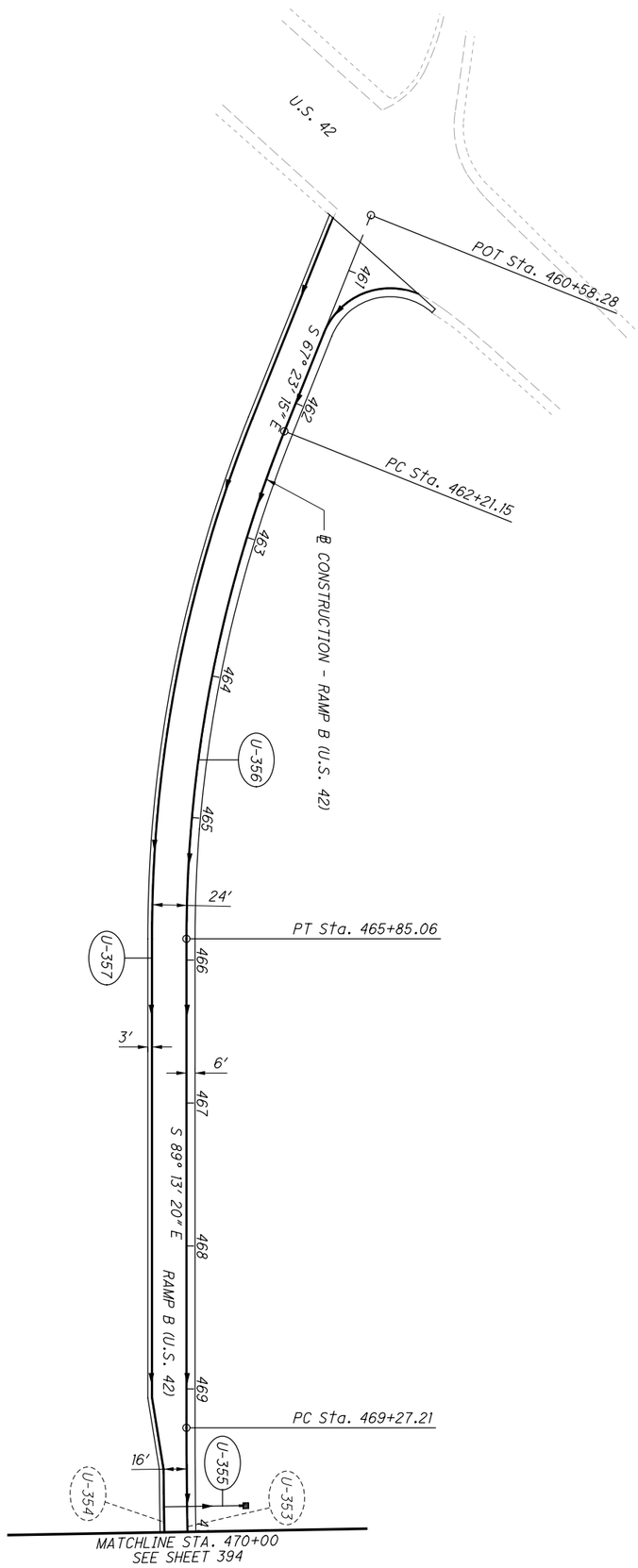


NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

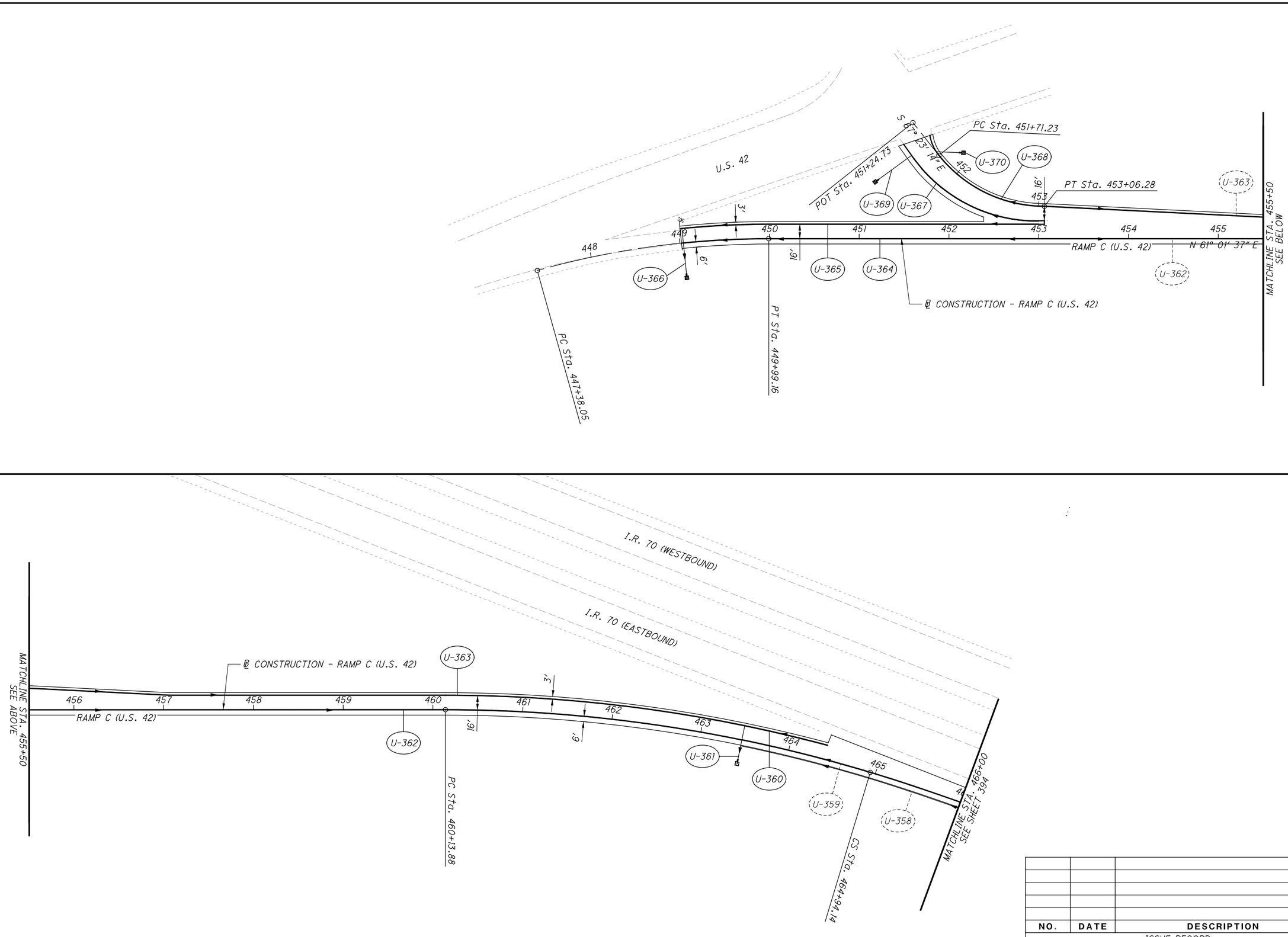
407
470

MAD-70-8.62

UNDERDRAIN DETAILS
BEGIN WORK TO STA. 470+00

CALCULATED MLL
CHECKED MJC

0 25 50 100
HORIZONTAL SCALE IN FEET



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED MLL
CHECKED MJC

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS
BEGIN WORK TO STA. 466+00

MAD-70-8.62

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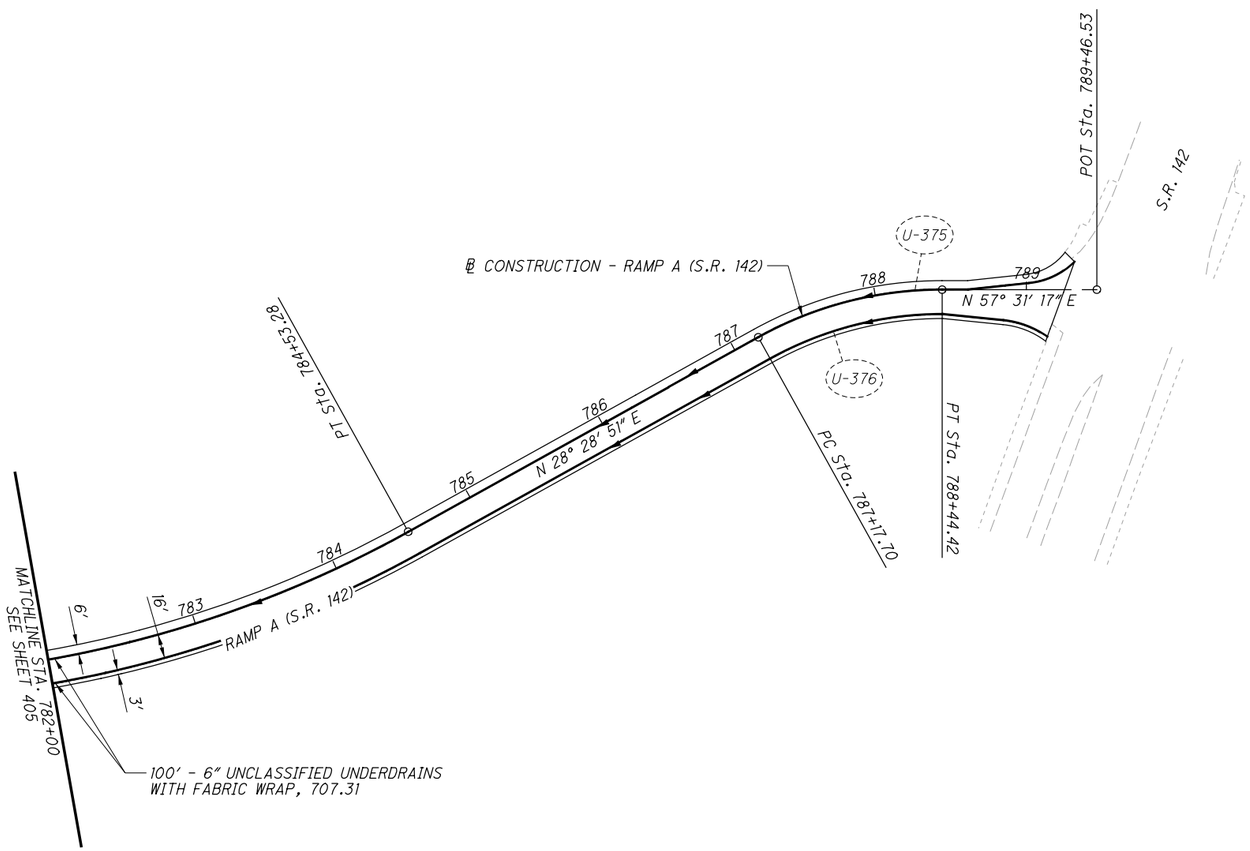

APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN DETAILS
STA. 782+00 TO END WORK

CALCULATED MLL
CHECKED MJC

HORIZONTAL SCALE IN FEET
0 25 50 100

NO.	DATE	DESCRIPTION

ISSUE RECORD

MAD-70-8.62

409
470

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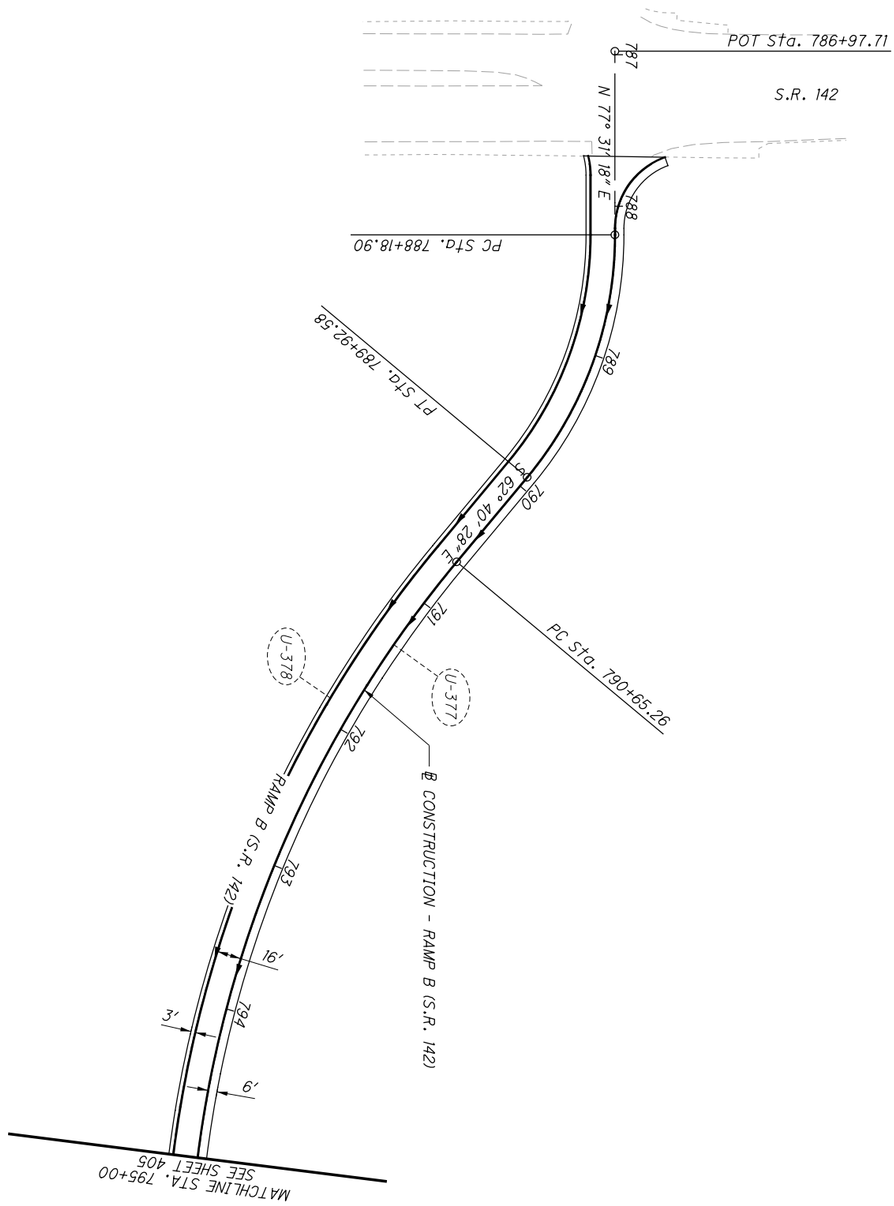


NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

410
470

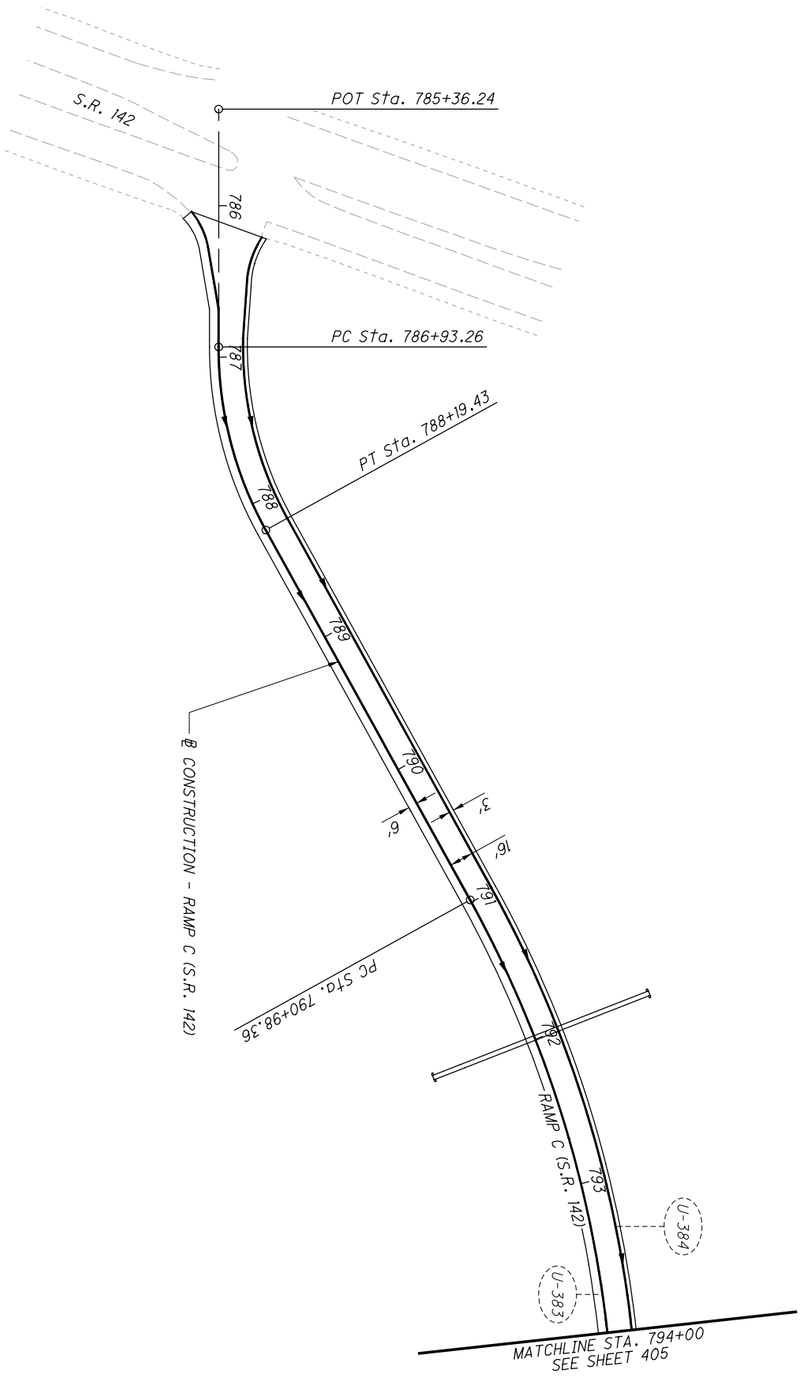
MAD-70-8.62

UNDERDRAIN DETAILS
BEGIN WORK TO STA. 795+00

CALCULATED MLL
CHECKED MJC

0 50
25 100
HORIZONTAL SCALE IN FEET

N

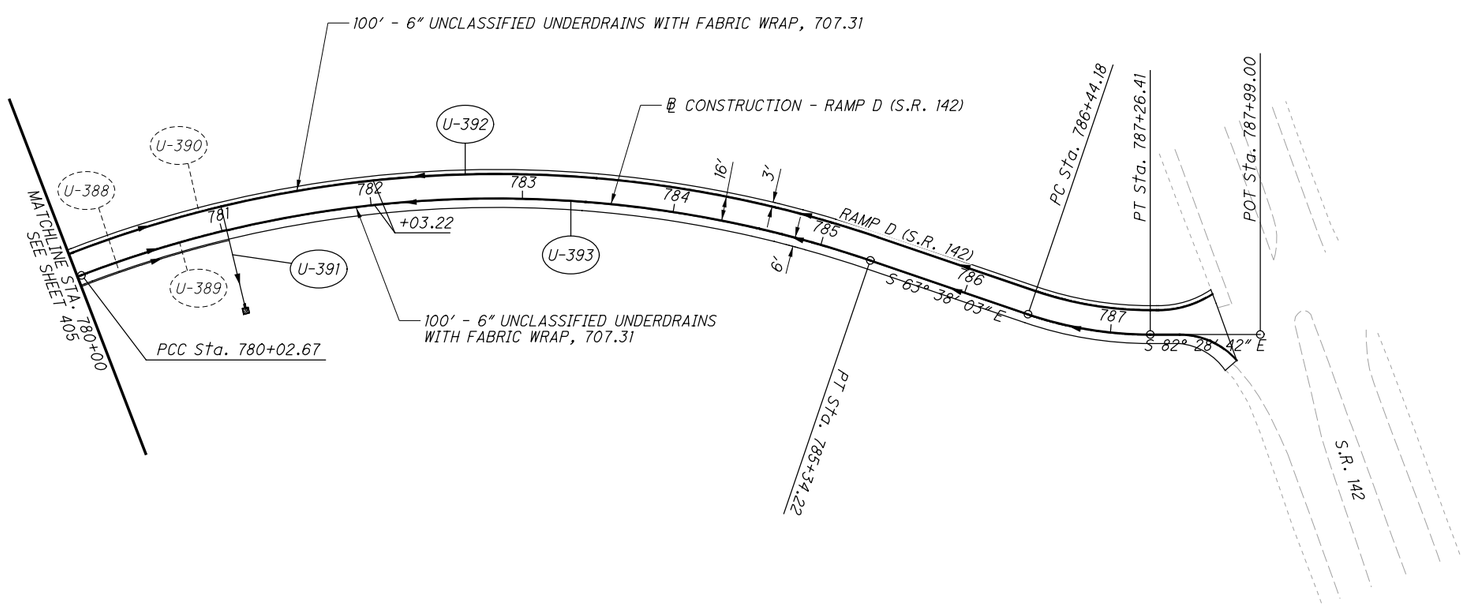


NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

411 / 470	MAD-70-8.62	UNDERDRAIN DETAILS BEGIN WORK TO STA. 794+00	CALCULATED MLL CHECKED MJC	0 25 50 100 HORIZONTAL SCALE IN FEET



APPROVED FOR CONSTRUCTION - 3/20/2019

UNDERDRAIN DETAILS
STA. 780+00 TO END WORK

CALCULATED MLL
CHECKED MJC

HORIZONTAL SCALE IN FEET
0 25 50 100

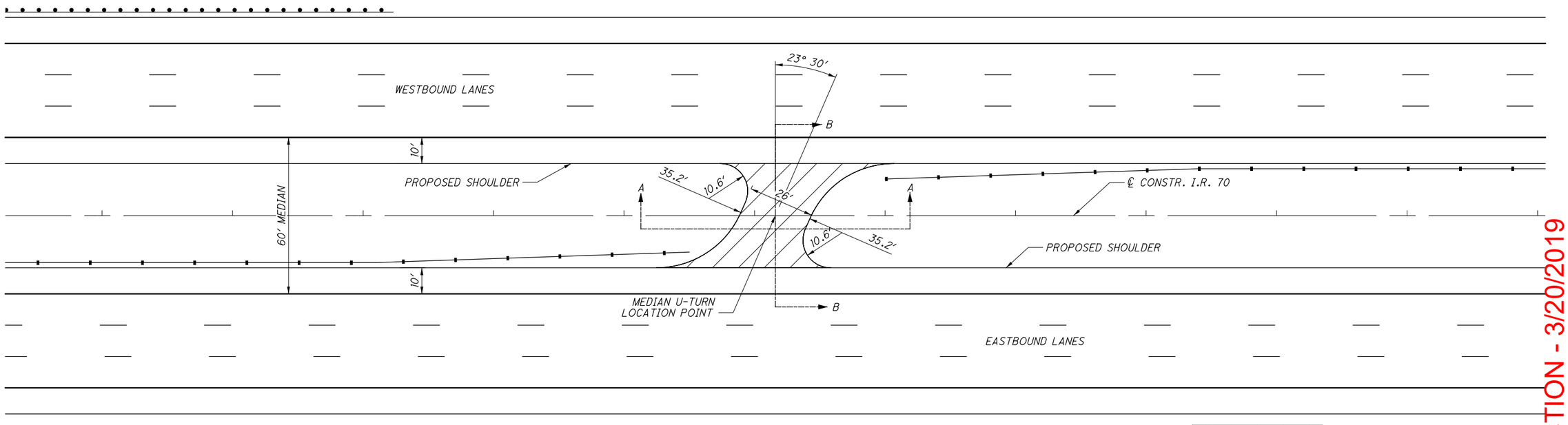
NO.	DATE	DESCRIPTION

ISSUE RECORD

MAD-70-8.62

412
470

P:\107109_MAD-70-8.62DB\Design\Drainage\Sheets\107109_DP019.dgn Sheet 3/20/2019 9:53:00 AM mcornett

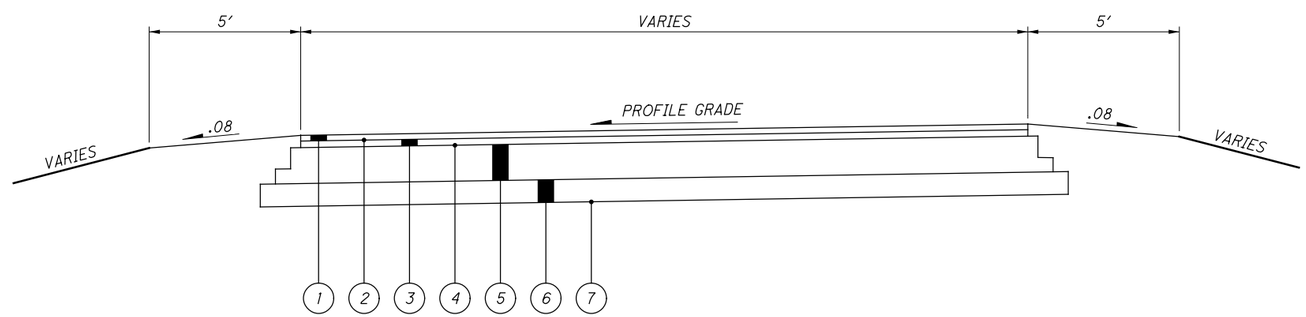


MEDIAN CROSSOVER PAVEMENT

MEDIAN U-TURN
LOCATIONS:
STA. 502+44.00
STA. 581+58.00
STA. 631+30.00
STA. 754+38.00

NOTE:

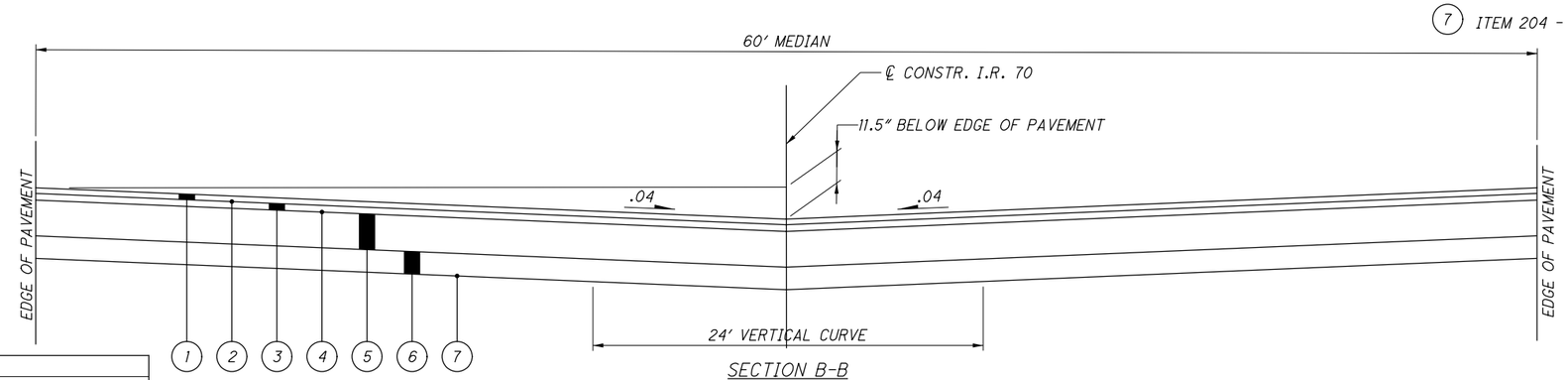
PAVEMENT BUILDUP AND EDGE COURSE TO BE SAME AS THE MAINLINE TREATED SHOULDER BUILDUP AND EDGE COURSE.



SECTION A-A

LEGEND

1. ITEM 806 - 1.5″ ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A
2. ITEM 407 - NON-TRACKING TACK COAT
3. ITEM 442 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)
4. ITEM 407 - NON-TRACKING TACK COAT
5. ITEM 302 - 9.5″ ASPHALT CONCRETE BASE, PG64-22
6. ITEM 304 - 6″ AGGREGATE BASE
7. ITEM 204 - PROOF ROLLING



SECTION B-B

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

CALCULATED TDP
CHECKED MJC

MEDIAN U-TURN DETAILS

MAD-70-8.62

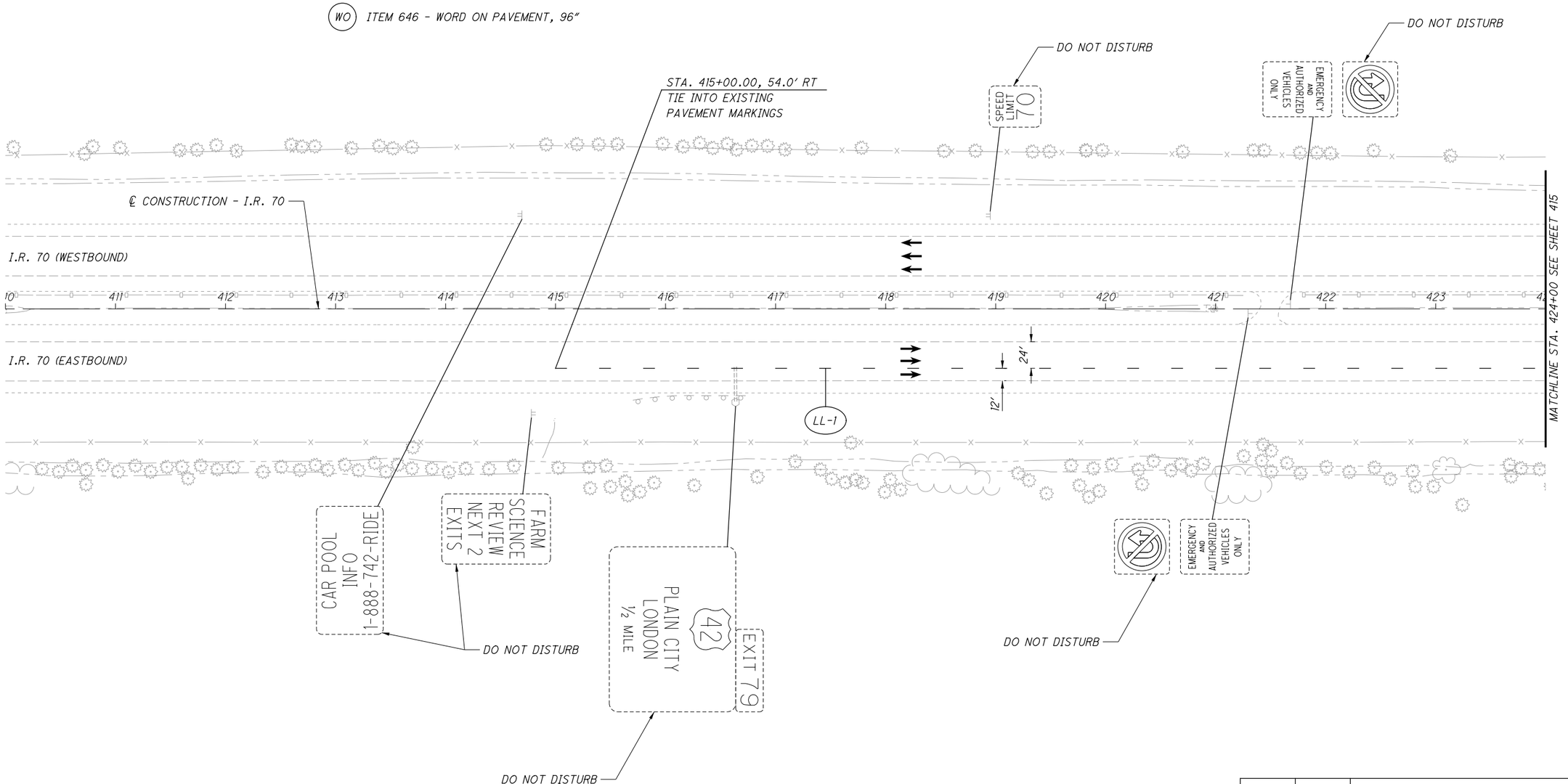
P:\107109_MAD-70-8.62DB\Design\Roadway\Sheets\107109_GM001.dgn Sheet 3/20/2019 9:53:01 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - BEGIN WORK TO STA. 424+00

MAD-70-8.62

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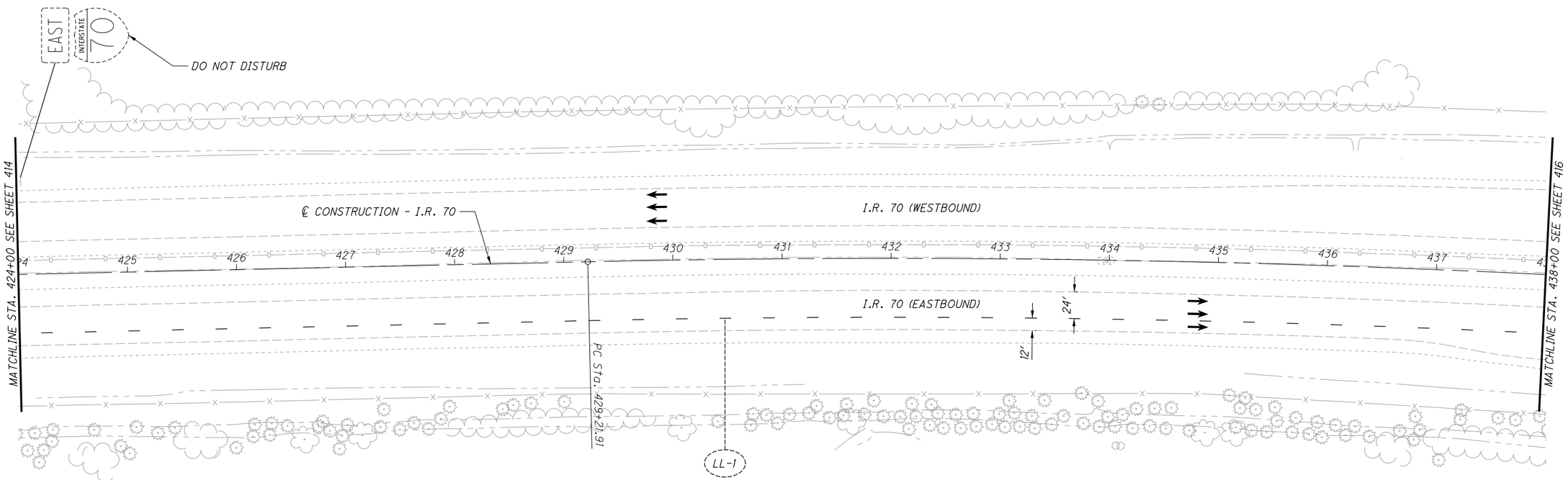
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 424+00 TO STA. 438+00

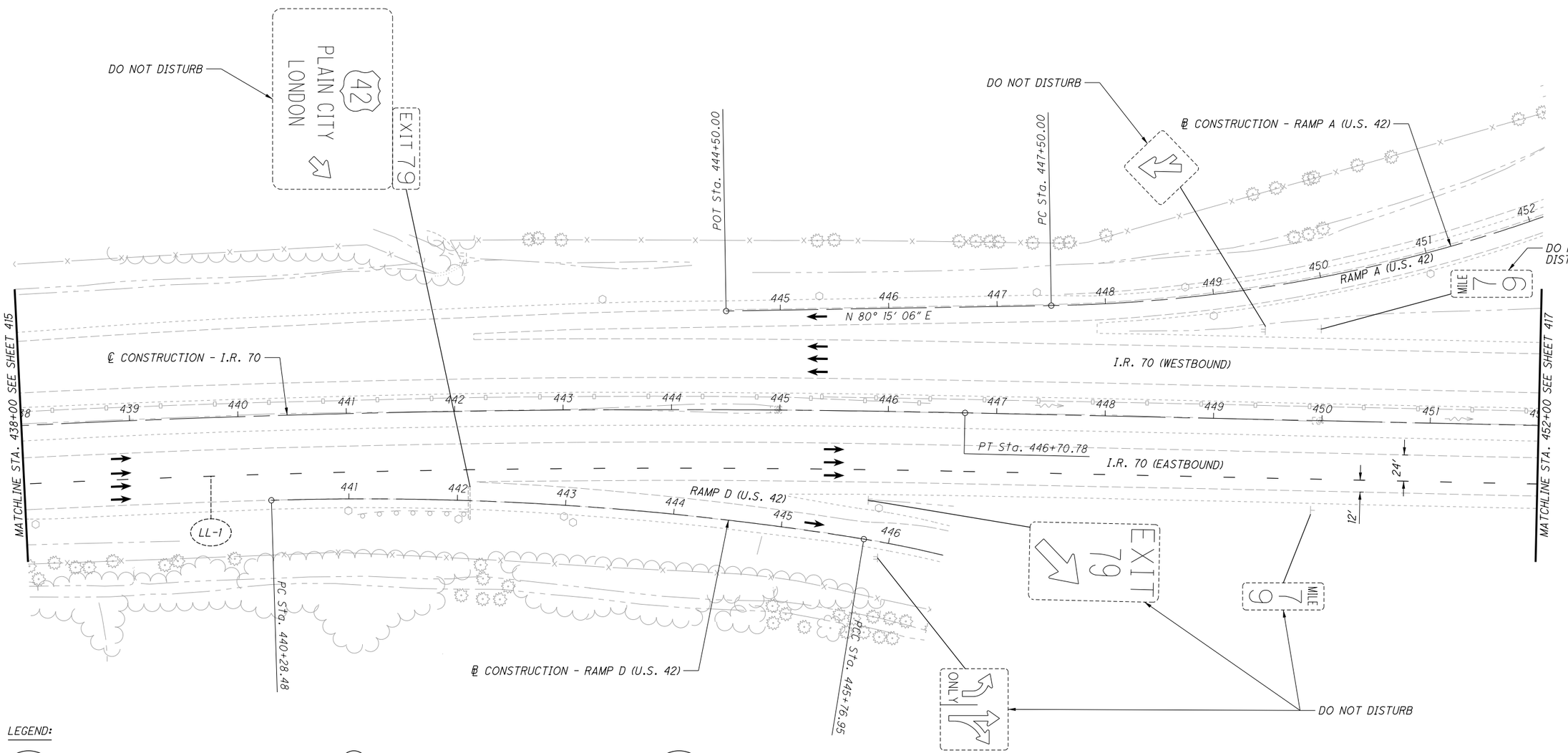
MAD-70-8.62

415
470

P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP002.dgn Sheet 3/20/2019 9:53:08 AM mcornett

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



LEGEND:

Y	ITEM 644 - EDGE LINE, YELLOW, 6"	Y	ITEM 646 - EDGE LINE, YELLOW, 6"	S	GROUND MOUNTED SIGN
W	ITEM 644 - EDGE LINE, WHITE, 6"	W	ITEM 646 - EDGE LINE, WHITE, 6"	OH	OVERHEAD MOUNTED SIGN
LL	ITEM 644 - LANE LINE, WHITE, 6"	CH	ITEM 646 - CHANNELIZING LINE, WHITE, 12"		EXISTING SIGN TO REMAIN
CH	ITEM 644 - CHANNELIZING LINE, WHITE, 12"	SL	ITEM 646 - STOP LINE		EXISTING SIGN TO BE REMOVED
DL	ITEM 644 - DOTTED LINE, WHITE, 6"	A	ITEM 646 - LANE ARROW		PROPOSED SIGN
		WO	ITEM 646 - WORD ON PAVEMENT, 96"		

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 438+00 TO STA. 452+00

MAD-70-8.62

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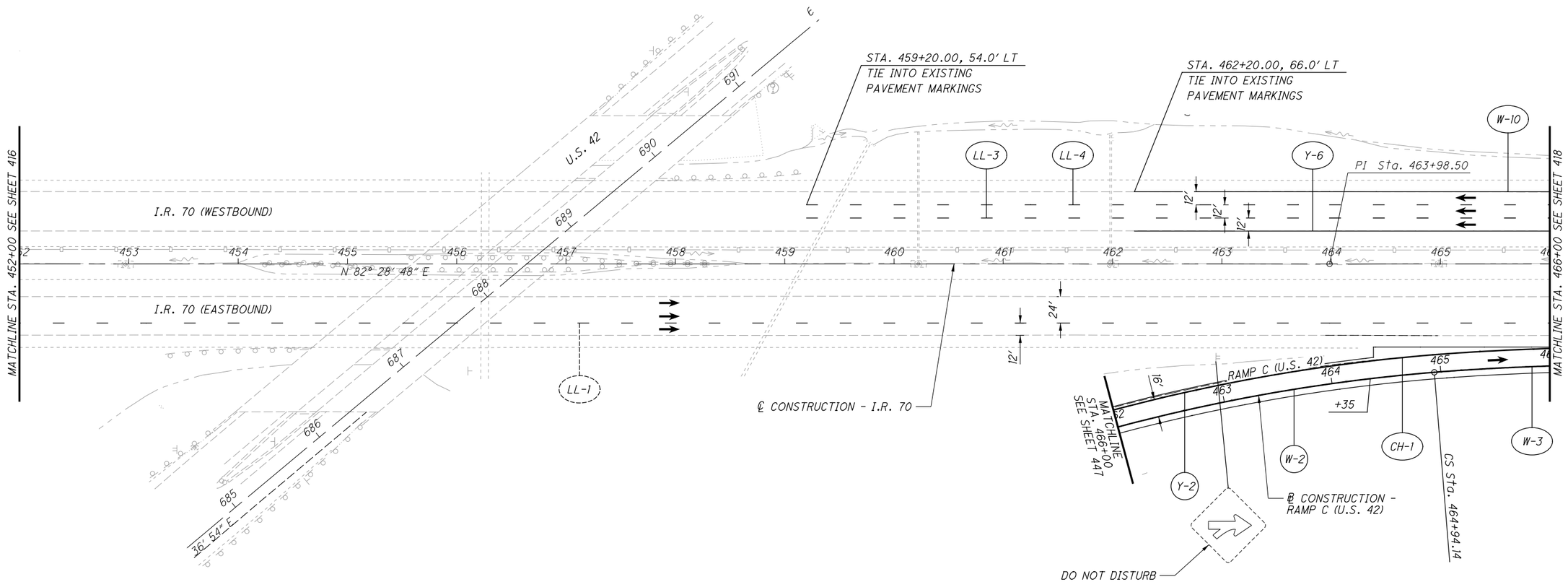
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP C (U.S. 42) ACCORDING TO SCD TC-61.10.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 452+00 TO STA. 466+00

MAD-70-8.62

417
470

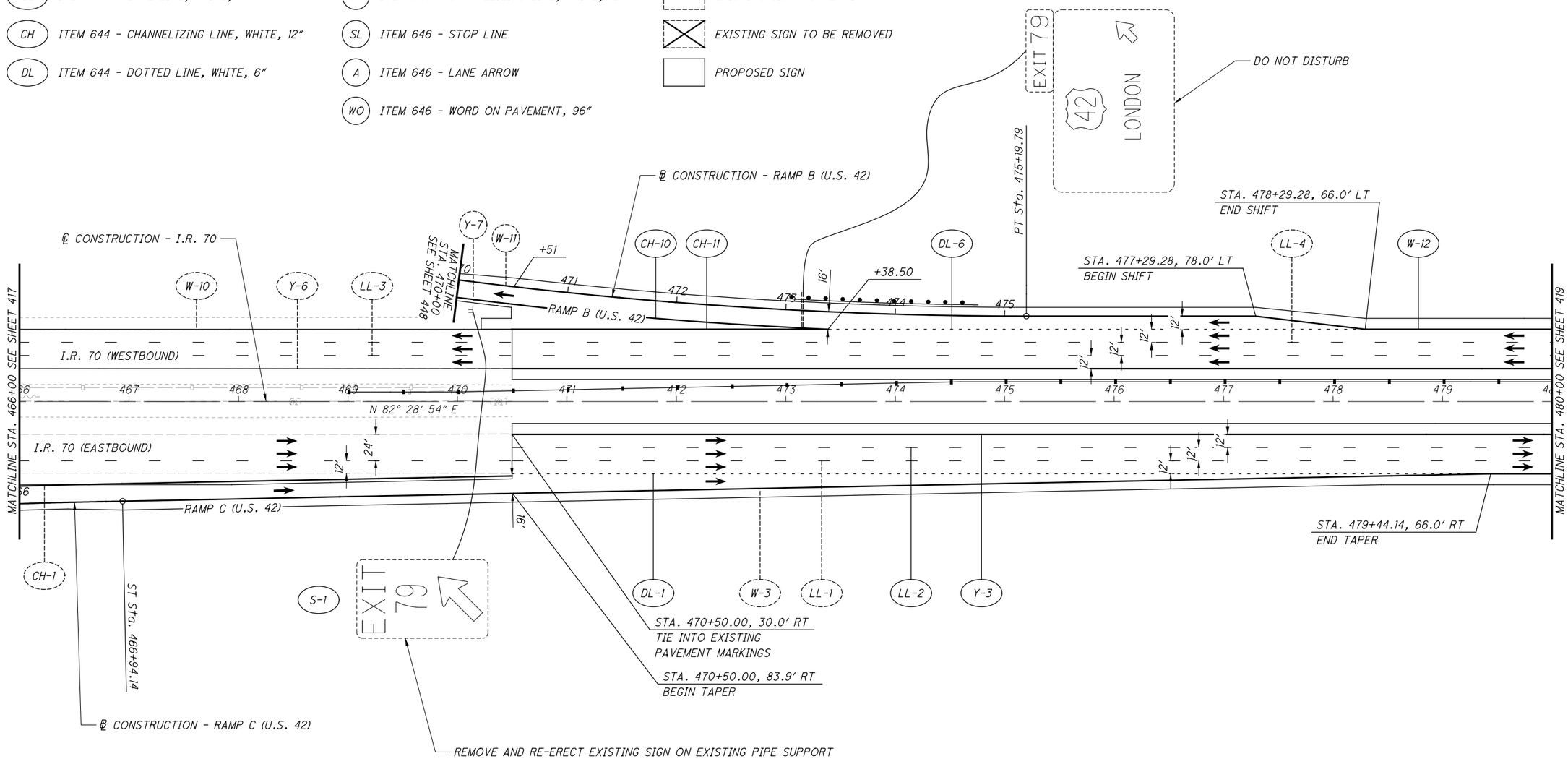
P:\107109_MAD-70-8.620B\Design\Traffic\Sheets\107109_TP004.dgn Sheet 3/20/2019 9:53:10 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP C (U.S. 42) ACCORDING TO SCD TC-61.10.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 466+00 TO STA. 480+00

MAD-70-8.62

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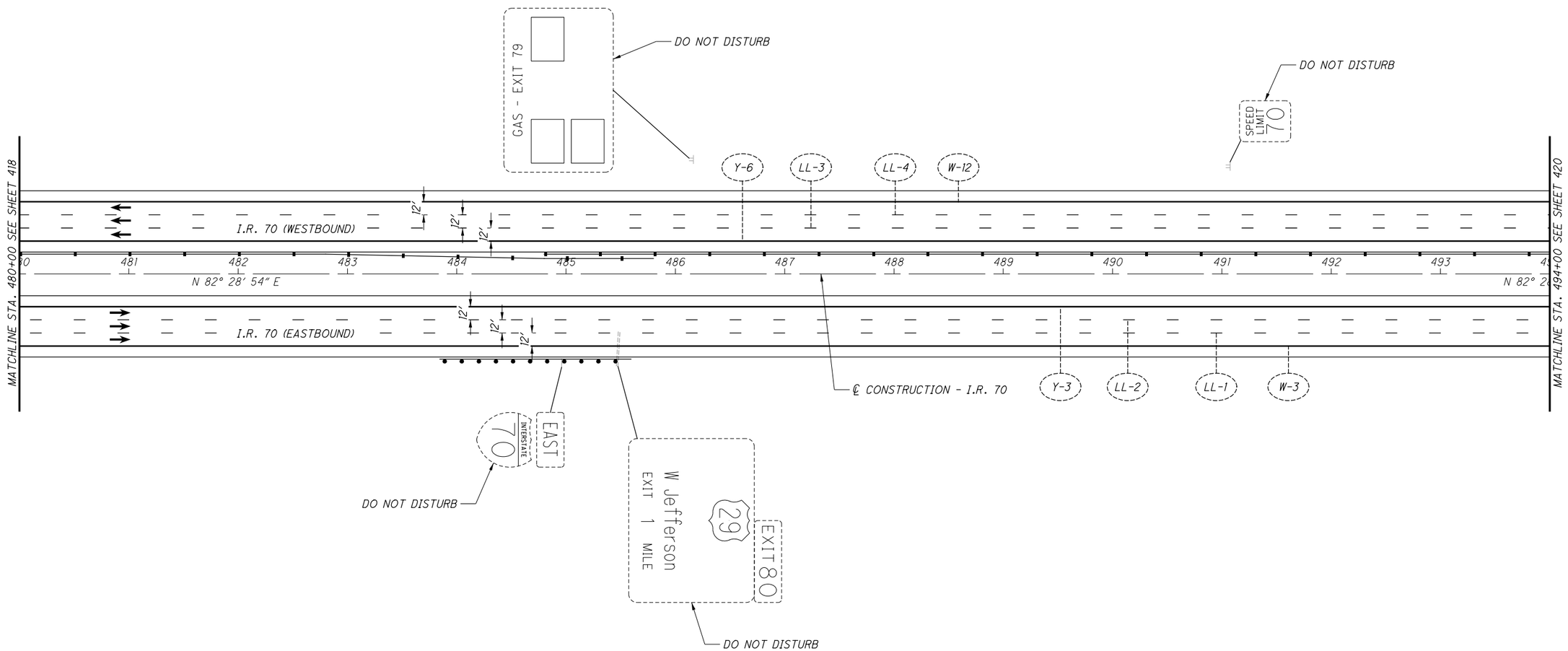
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 480+00 TO STA. 494+00

MAD-70-8.62

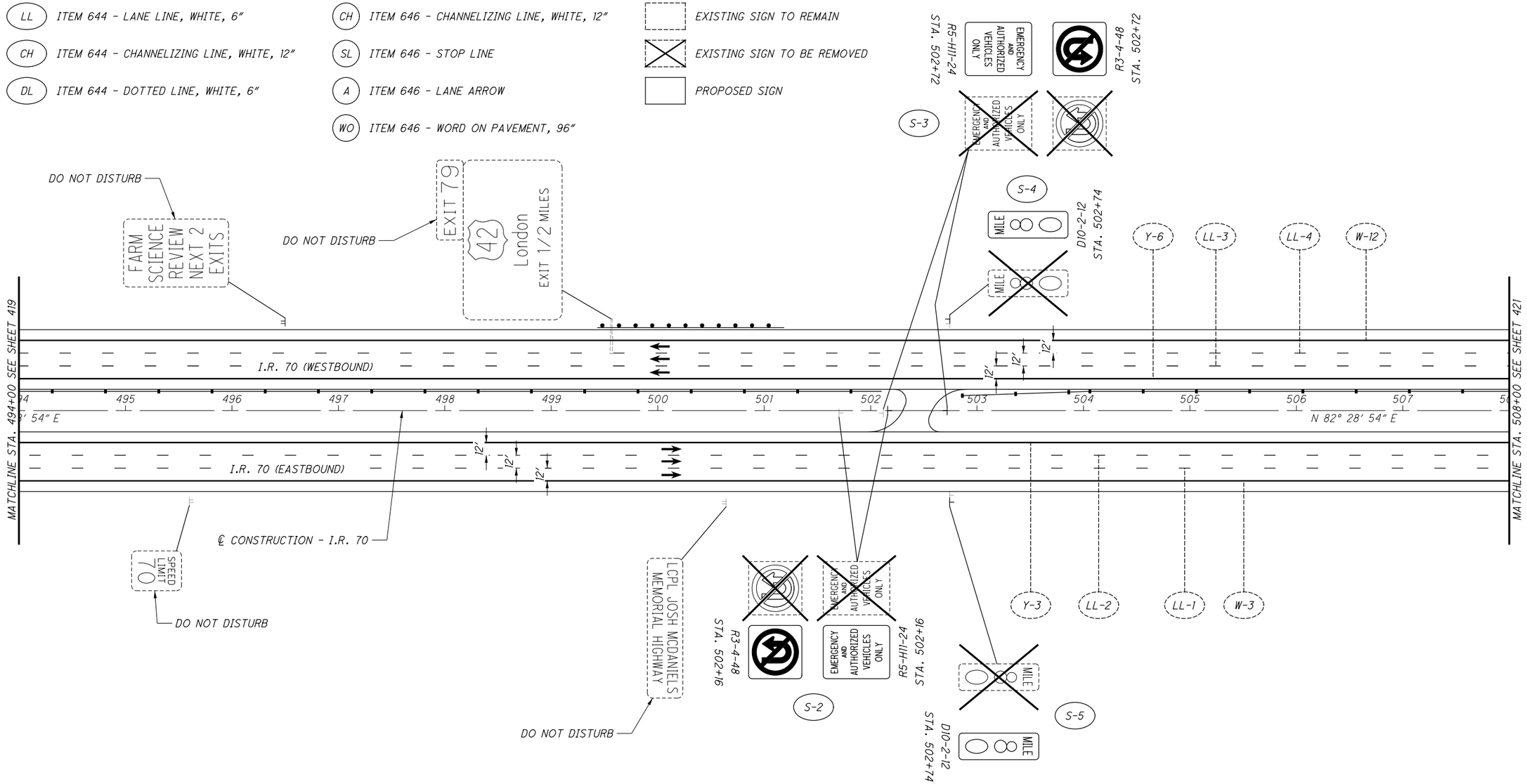
P:\107109_MAD-70-8.620B\Design\Traffic\Sheets\107109_TP006.dgn Sheet 3/20/2019 9:53:13 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 494+00 TO STA. 508+00

MAD-70-8.62

420
470

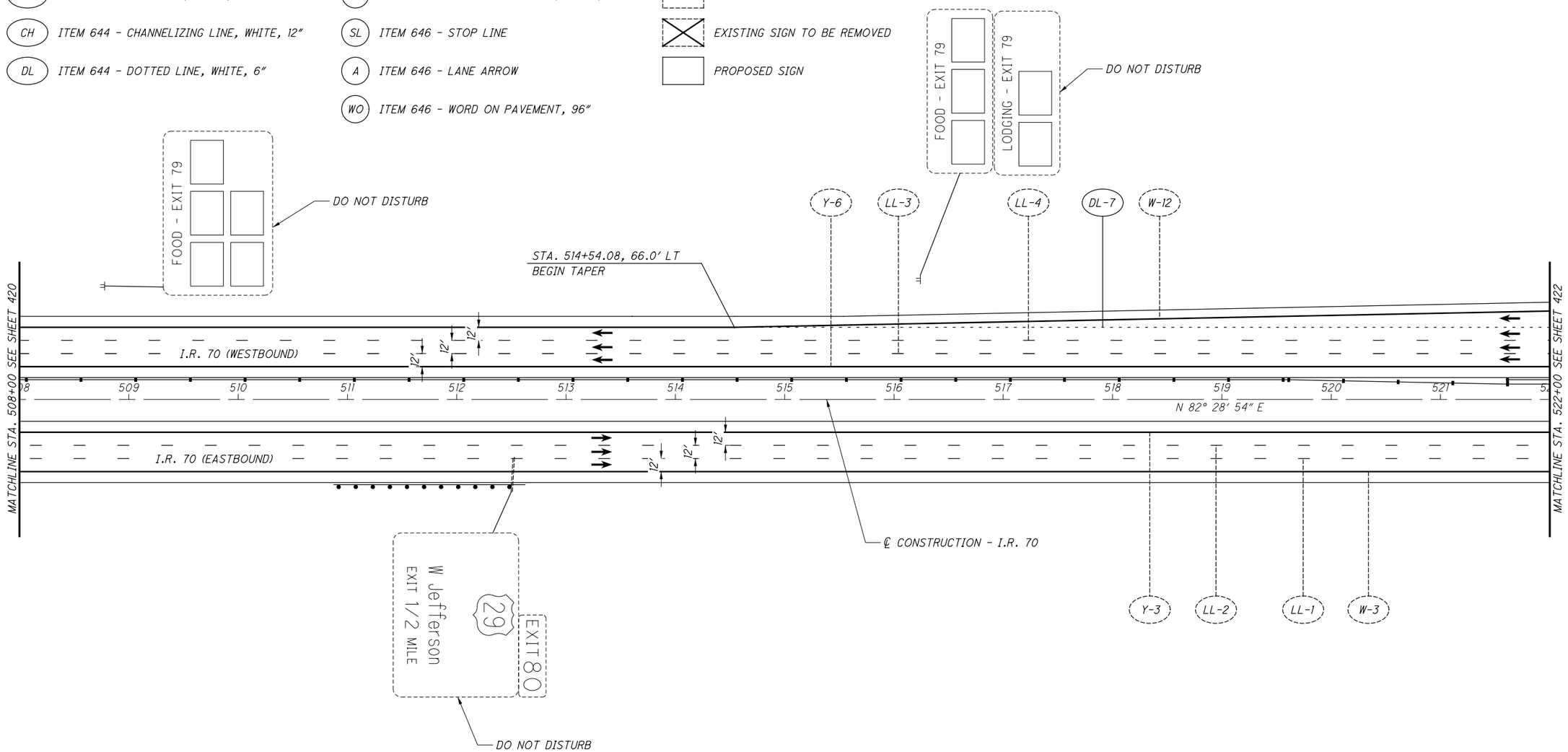
P:\107109_MAD-70-8.620B\Design\Traffic\Sheets\107109_TP007.dgn Sheet 3/20/2019 9:53:14 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 508+00 TO STA. 522+00

MAD-70-8.62

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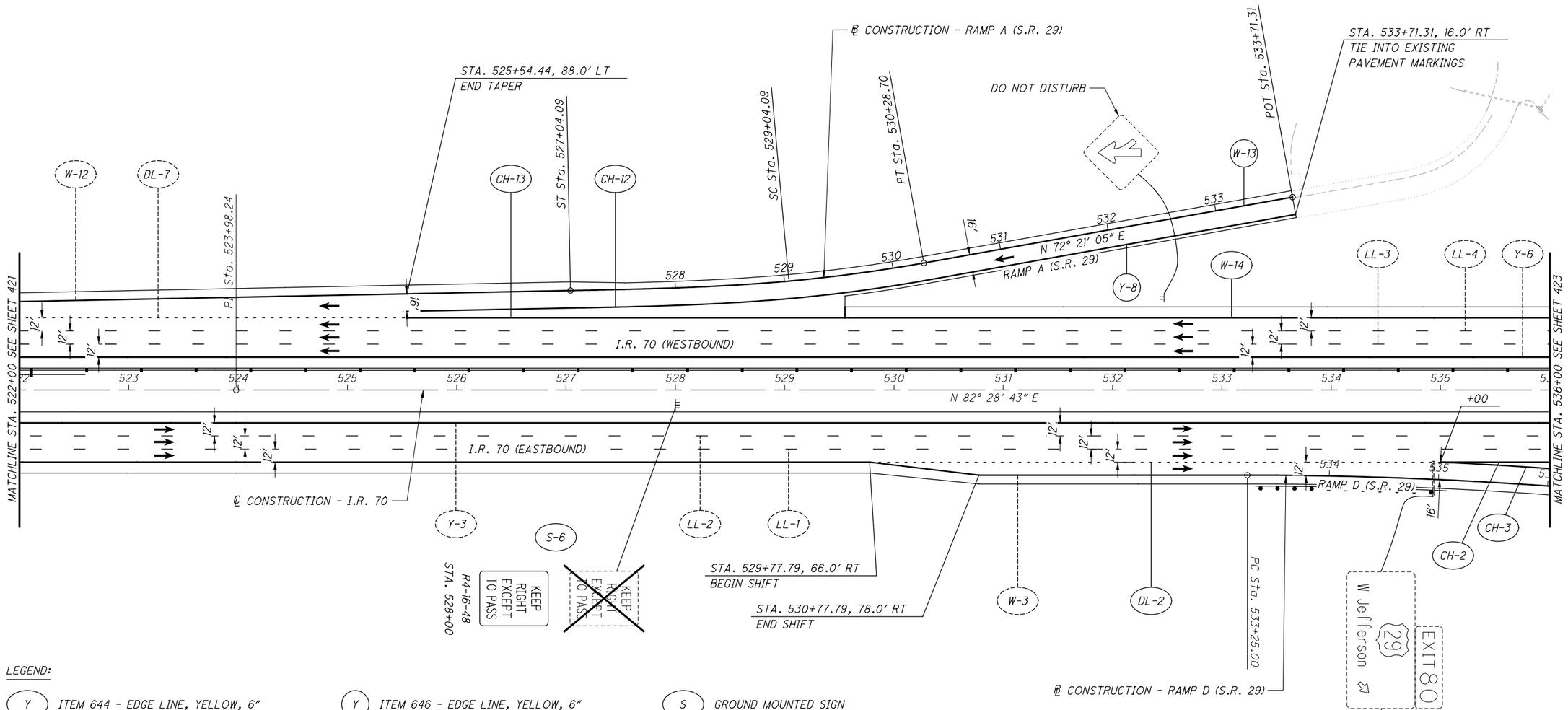
NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP A (S.R. 29) ACCORDING TO SCD TC-61.10.



LEGEND:

(Y) ITEM 644 - EDGE LINE, YELLOW, 6"	(Y) ITEM 646 - EDGE LINE, YELLOW, 6"	(S) GROUND MOUNTED SIGN
(W) ITEM 644 - EDGE LINE, WHITE, 6"	(W) ITEM 646 - EDGE LINE, WHITE, 6"	(OH) OVERHEAD MOUNTED SIGN
(LL) ITEM 644 - LANE LINE, WHITE, 6"	(CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"	EXISTING SIGN TO REMAIN
(CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"	(SL) ITEM 646 - STOP LINE	EXISTING SIGN TO BE REMOVED
(DL) ITEM 644 - DOTTED LINE, WHITE, 6"	(A) ITEM 646 - LANE ARROW	PROPOSED SIGN
	(WO) ITEM 646 - WORD ON PAVEMENT, 96"	

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 522+00 TO STA. 536+00

MAD-70-8.62

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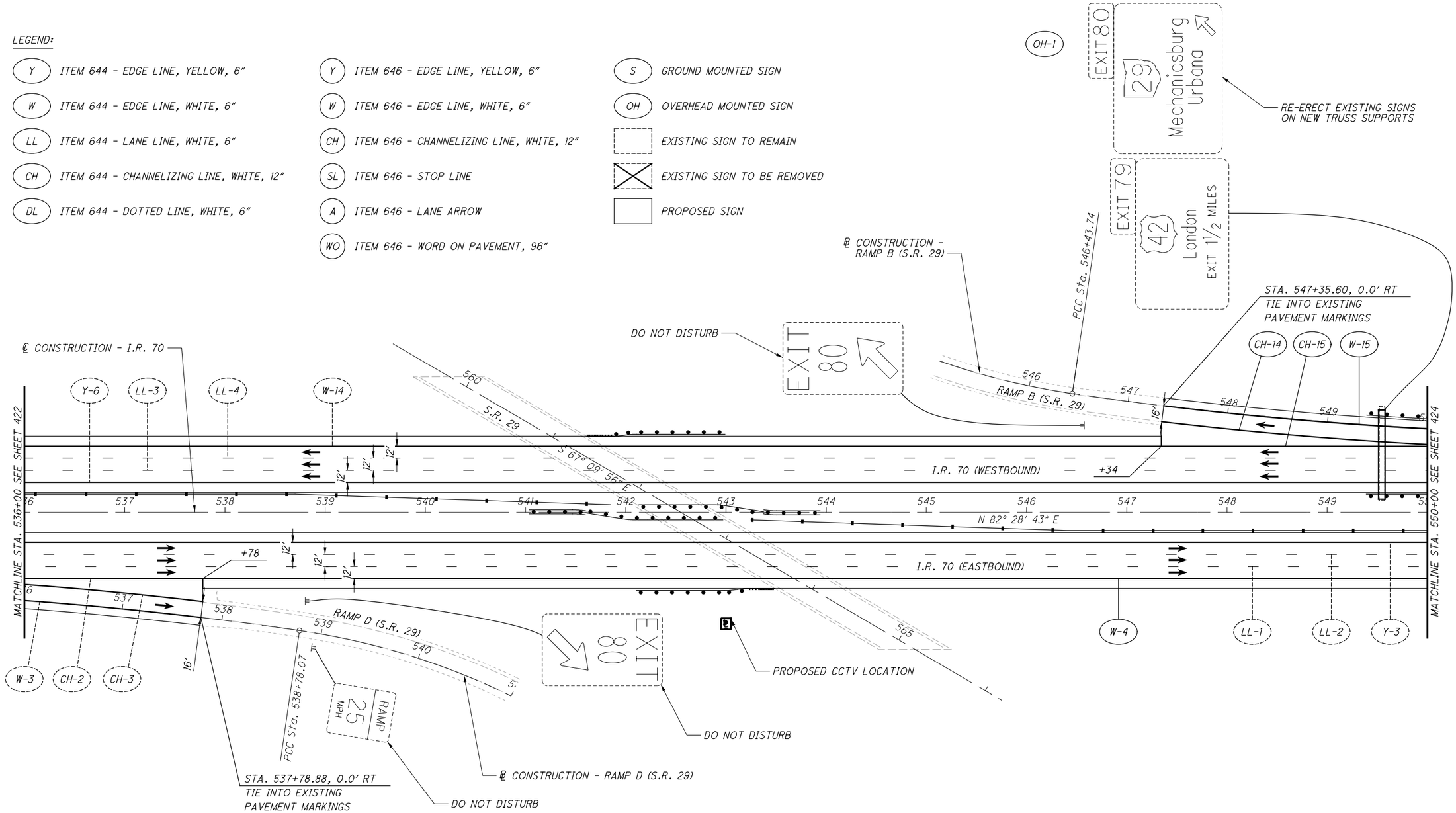
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN



NOTES

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NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 536+00 TO STA. 550+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP010.dgn Sheet 3/20/2019 9:53:17 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

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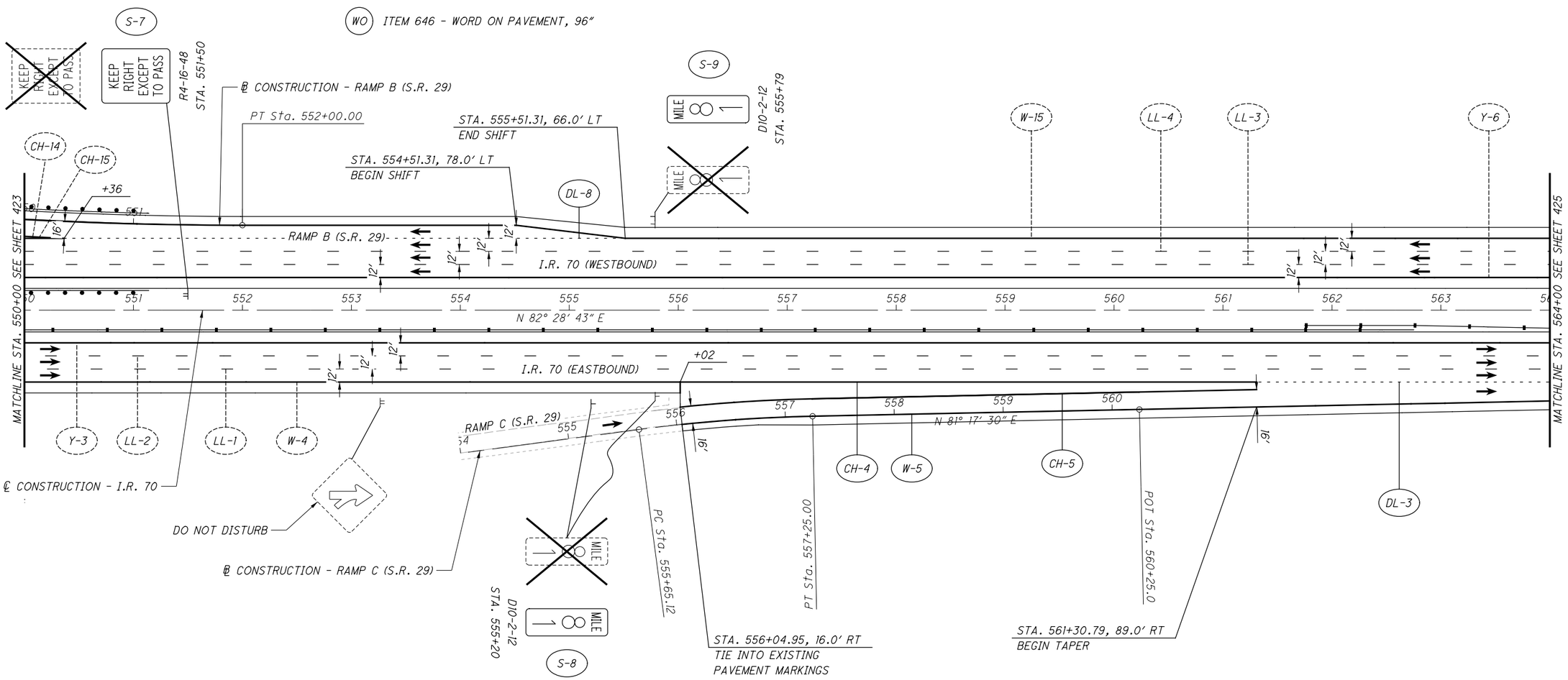

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 550+00 TO STA. 564+00

MAD-70-8.62

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
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- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

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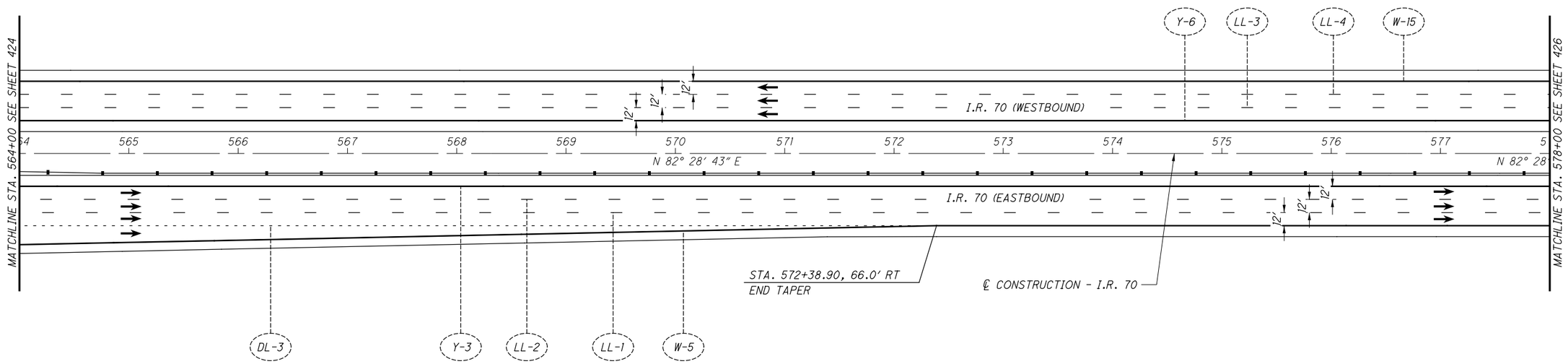
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 564+00 TO STA. 578+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP012.dgn Sheet 3/20/2019 9:53:18 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
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- (SL) ITEM 646 - STOP LINE
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NOTES

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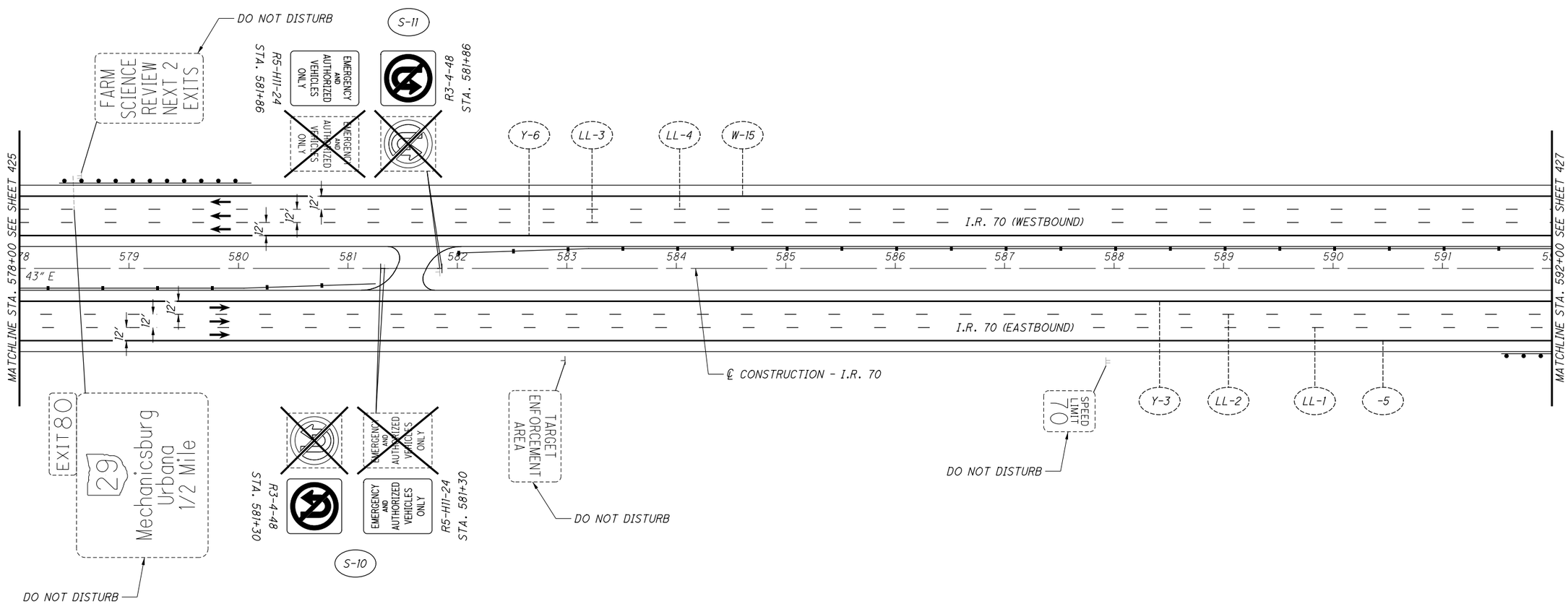

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 578+00 TO STA. 592+00

MAD-70-8.62

426
470

P:\107109_MAD-70-8.620B\Design\Traffic\Sheets\107109_TP013.dgn Sheet 3/20/2019 9:53:20 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
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- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
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- EXISTING SIGN TO REMAIN
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- PROPOSED SIGN

NOTES

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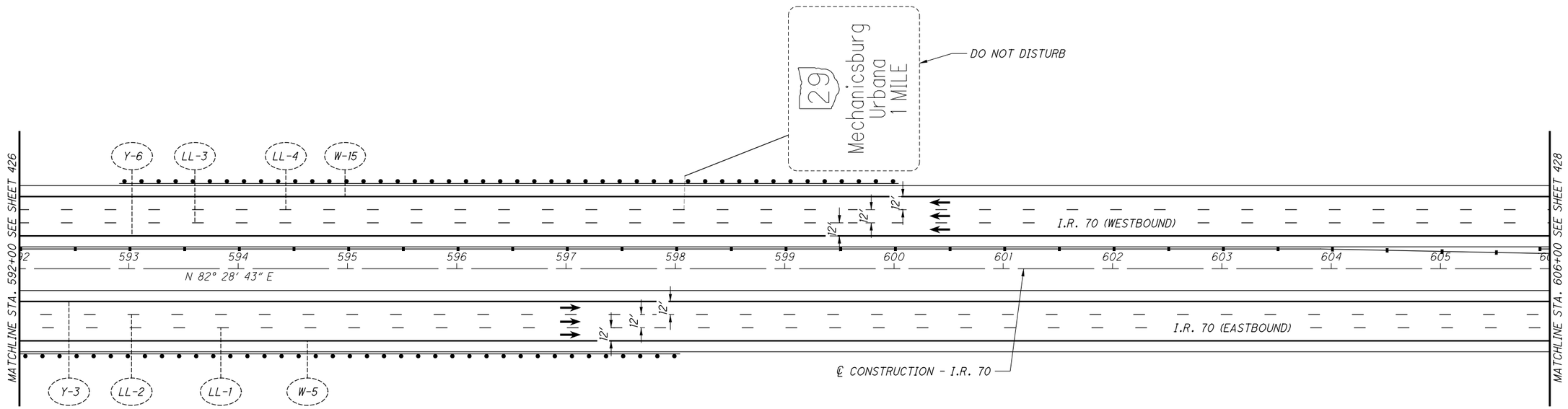

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 592+00 TO STA. 606+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP014.dgn Sheet 3/20/2019 9:53:21 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
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- (SL) ITEM 646 - STOP LINE
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- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

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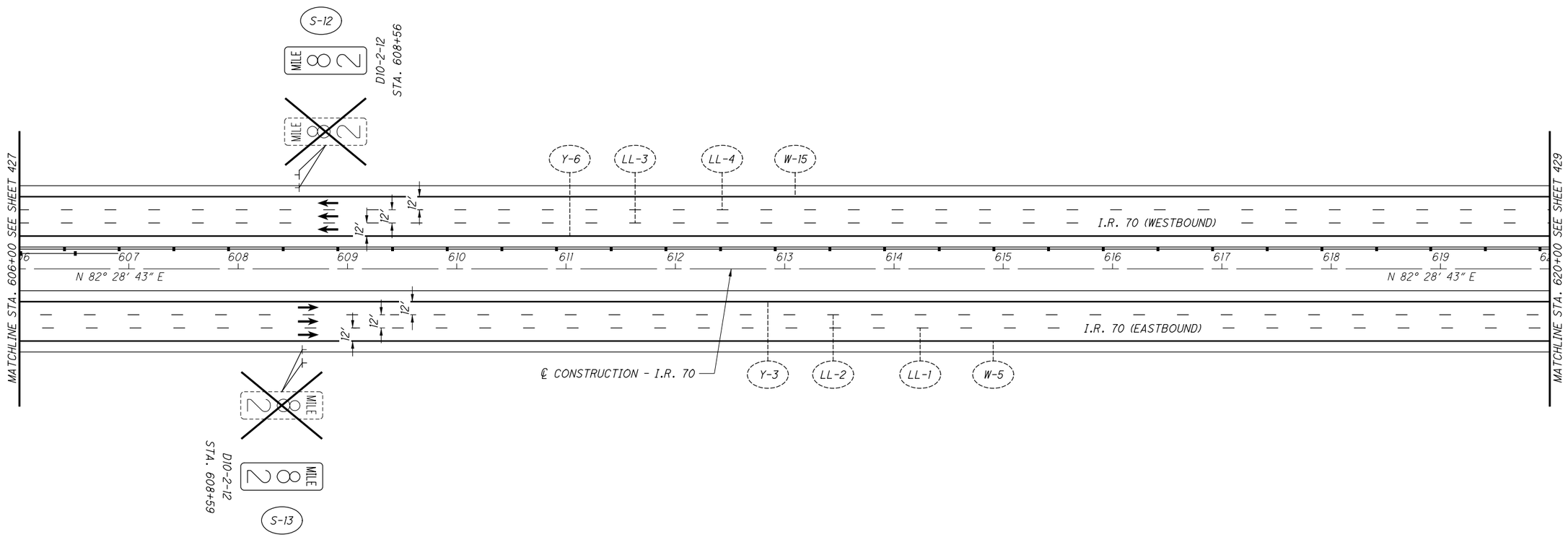

NO.	DATE	DESCRIPTION

ISSUE RECORD

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 606+00 TO STA. 620+00

MAD-70-8.62

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
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- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
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NOTES

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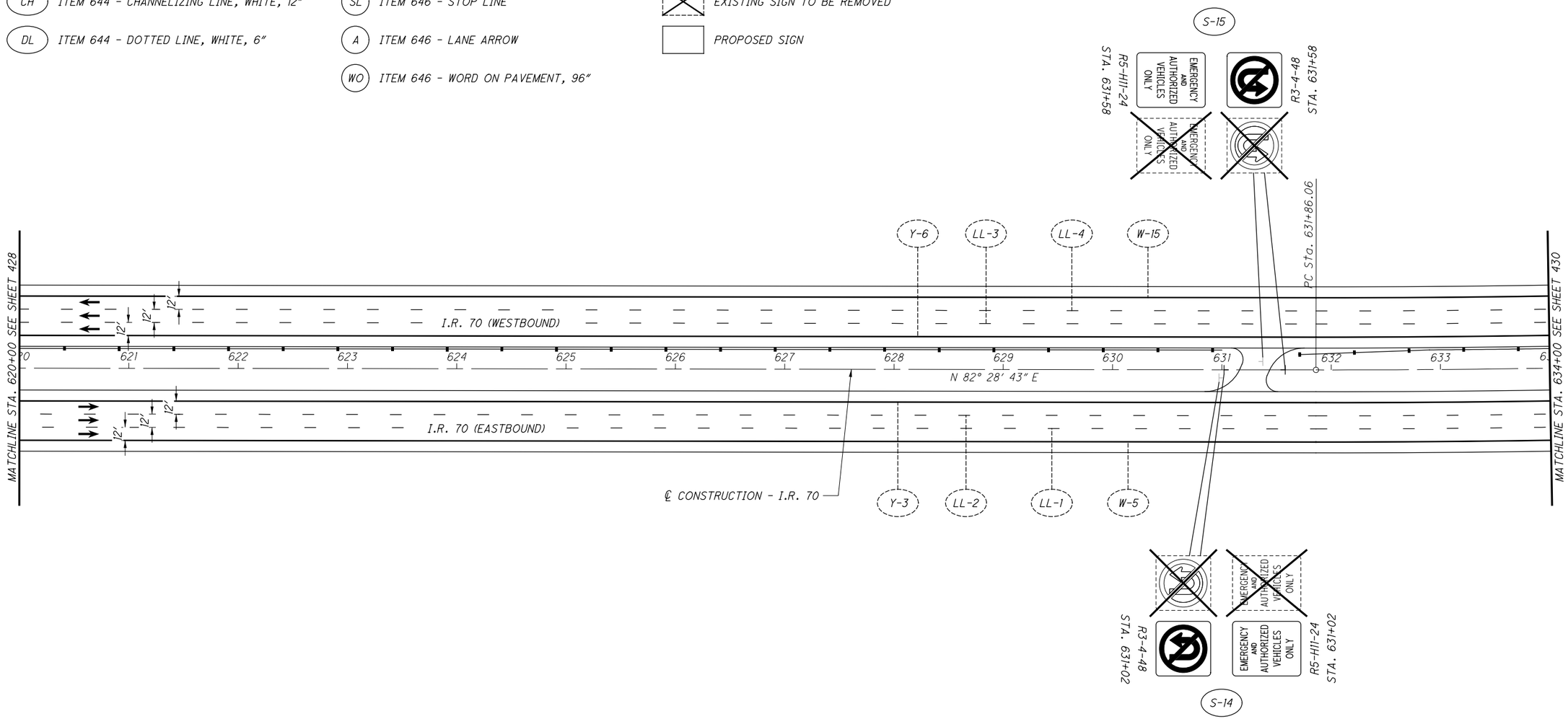

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 620+00 TO STA. 634+00

CALCULATED MLL
CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

MAD-70-8.62

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
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- EXISTING SIGN TO REMAIN
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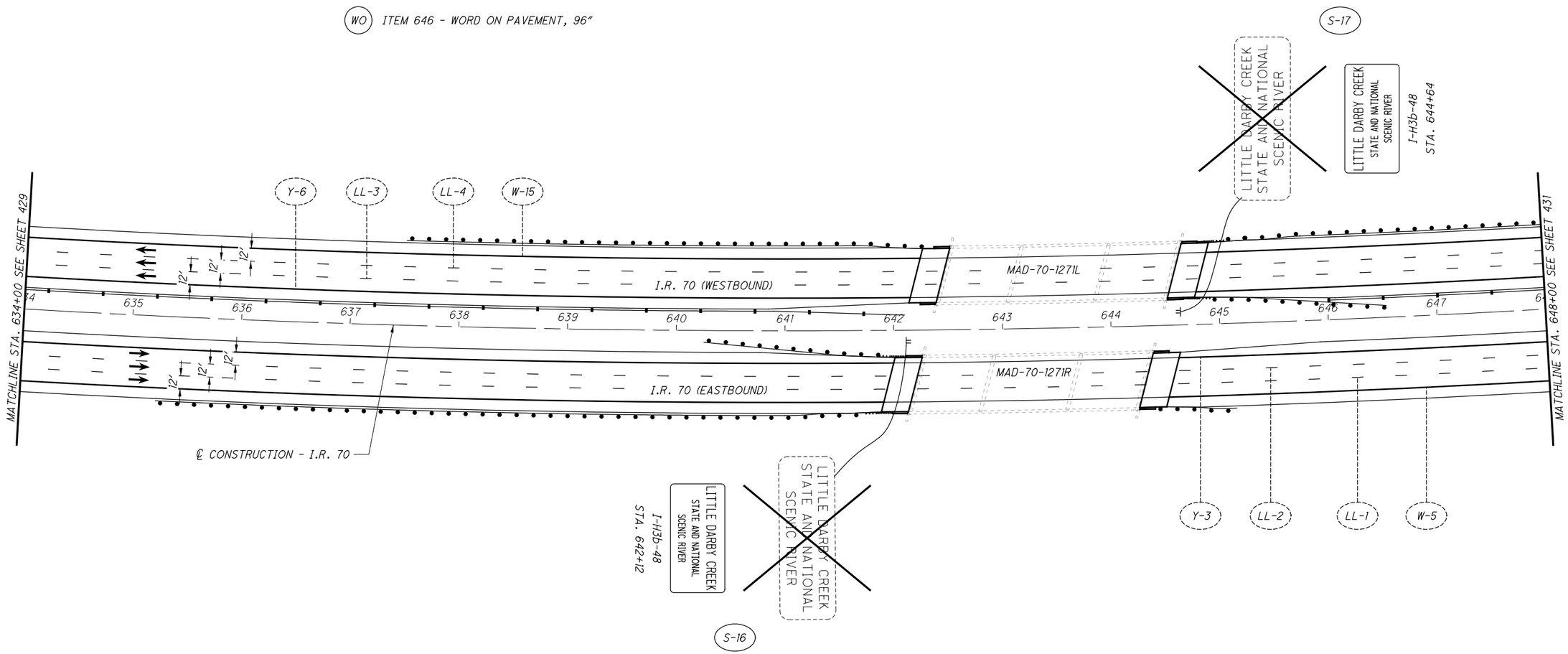

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 634+00 TO STA. 648+00

MAD-70-8.62

430
470

P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP01T.dgn Sheet 3/20/2019 9:53:24 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
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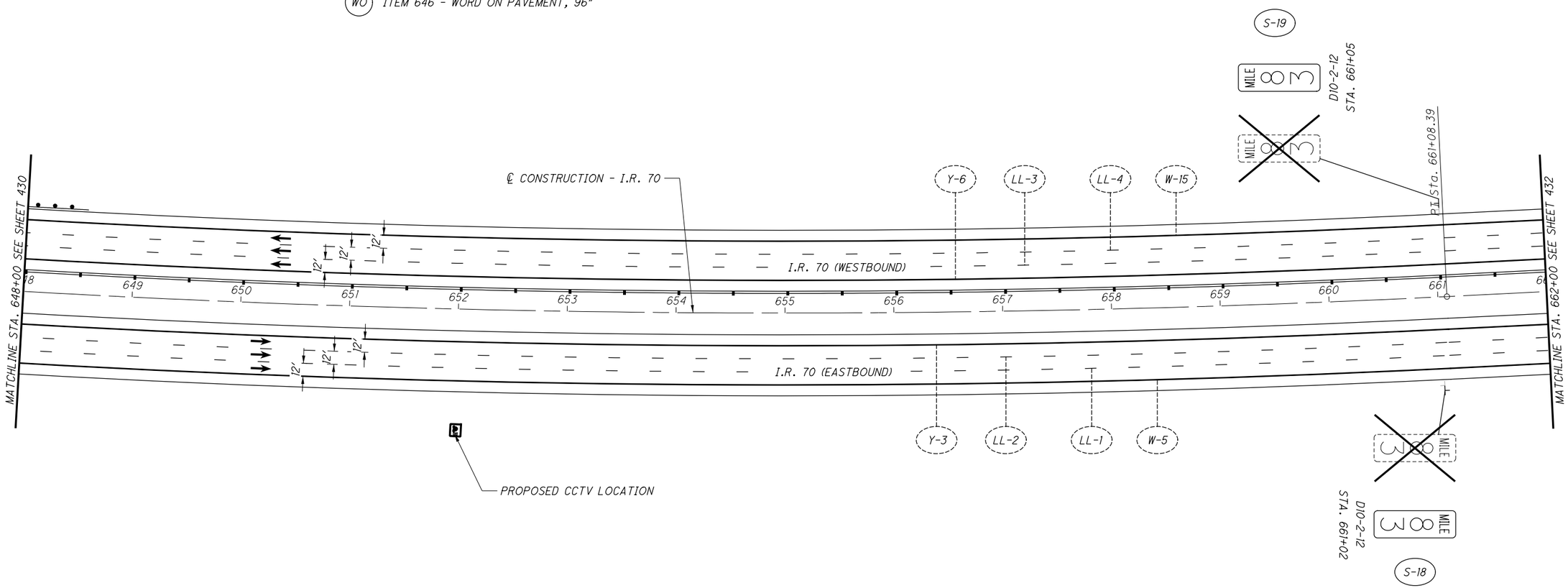


NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 648+00 TO STA. 662+00

MAD-70-8.62

431
470

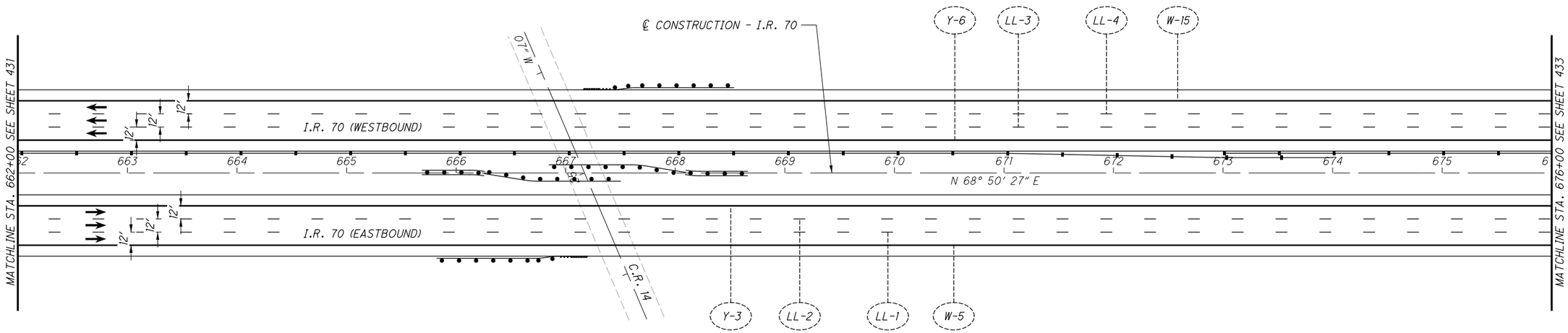
P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP018.dgn Sheet 3/20/2019 9:53:25 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 662+00 TO STA. 676+00

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL CHECKED MJC

MAD-70-8.62

NO.	DATE	DESCRIPTION

ISSUE RECORD

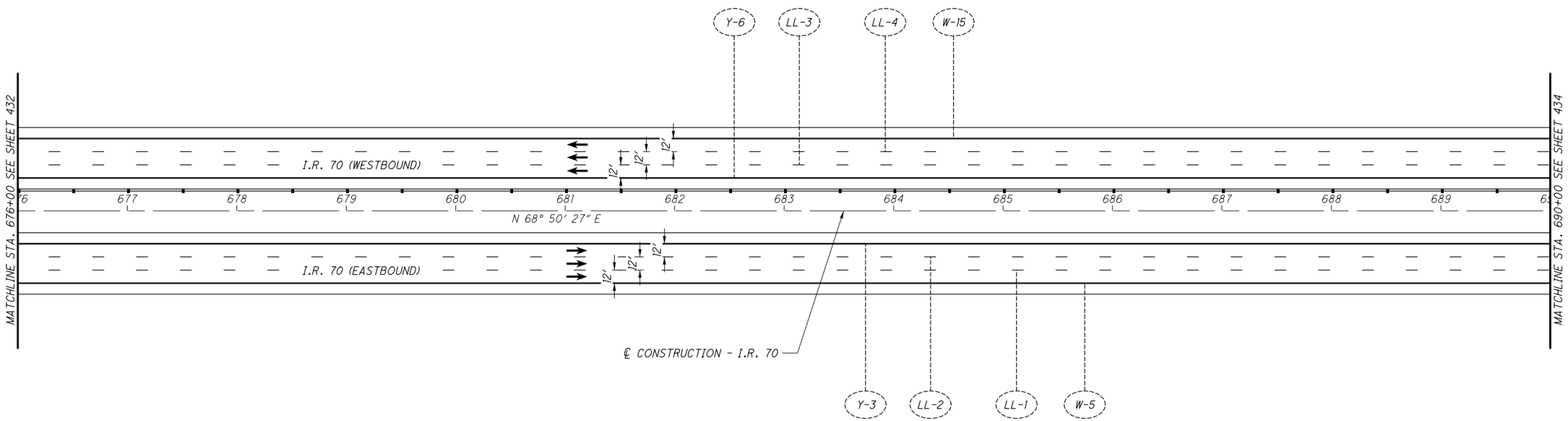
P:\107109_MAD-70-8.620B\Design\Traffic\Sheets\107109_TP019.dgn Sheet 3/20/2019 9:53:26 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 676+00 TO STA. 690+00

MAD-70-8.62

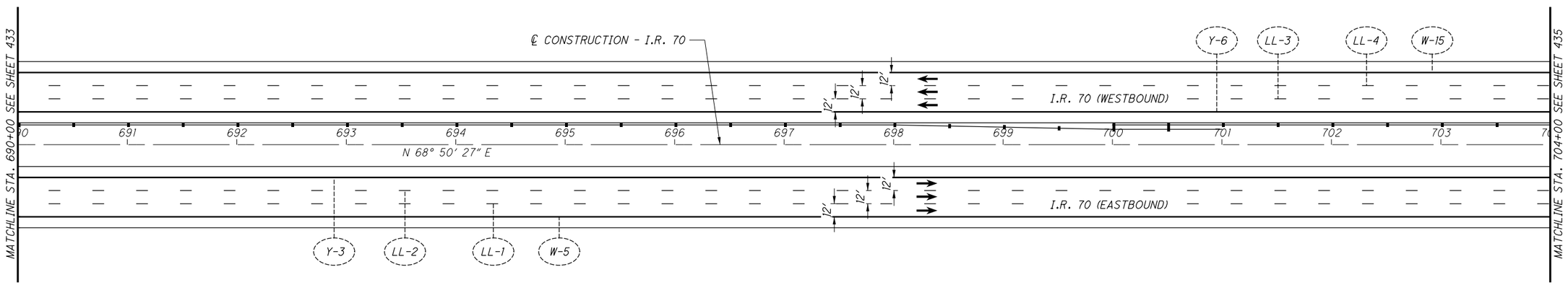
P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP020.dgn Sheet 3/20/2019 9:53:27 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 690+00 TO STA. 704+00

MAD-70-8.62

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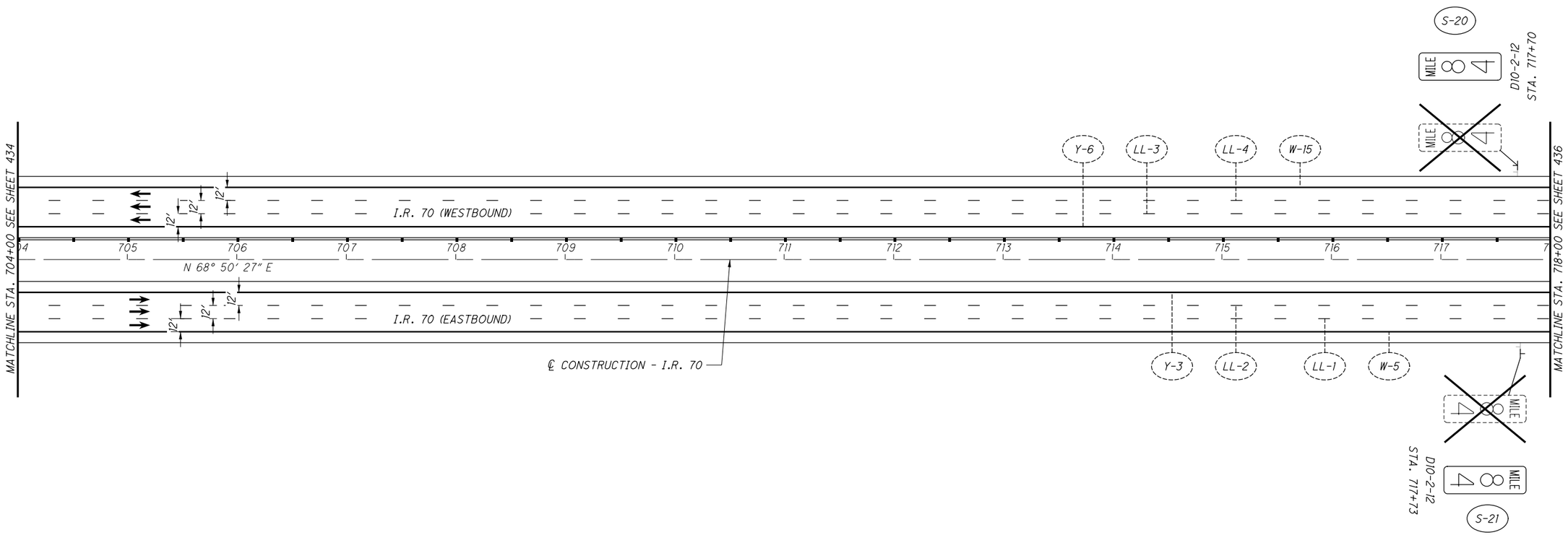
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 704+00 TO STA. 718+00

MAD-70-8.62

NO.	DATE	DESCRIPTION

ISSUE RECORD

CALCULATED MLL
CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

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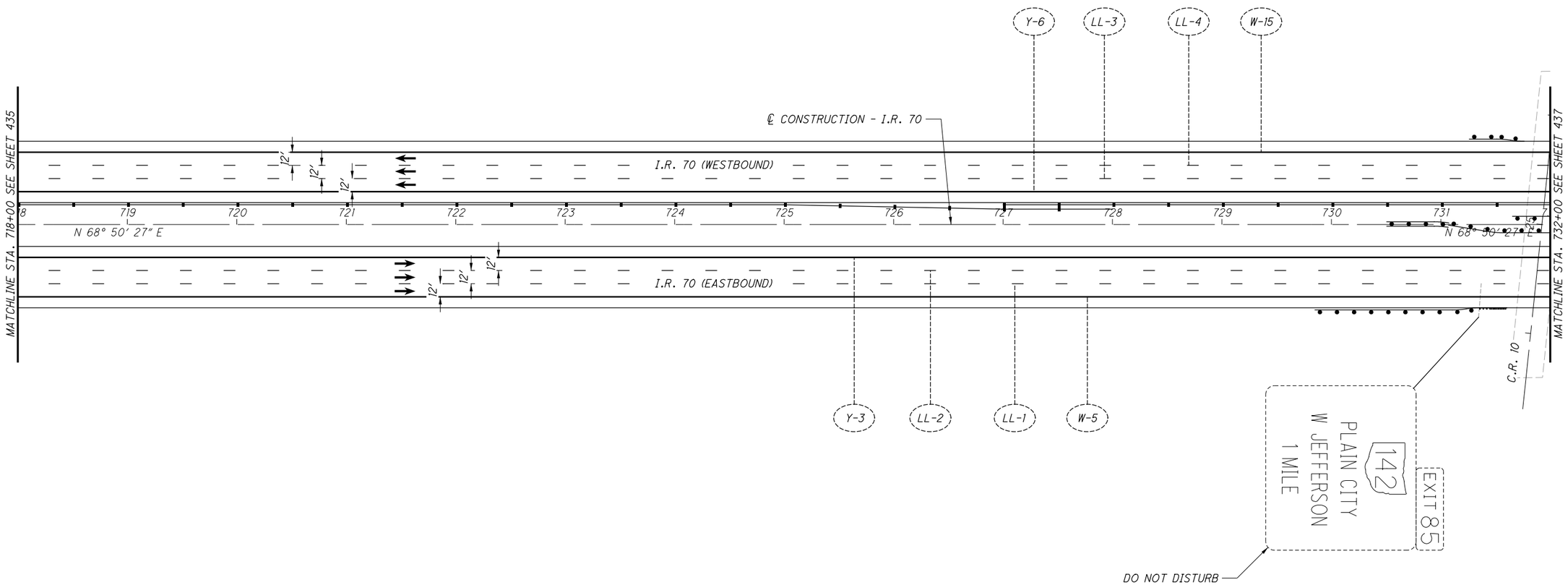
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 718+00 TO STA. 732+00

MAD-70-8.62

P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP023.dgn Sheet 3/20/2019 9:53:29 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
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- (SL) ITEM 646 - STOP LINE
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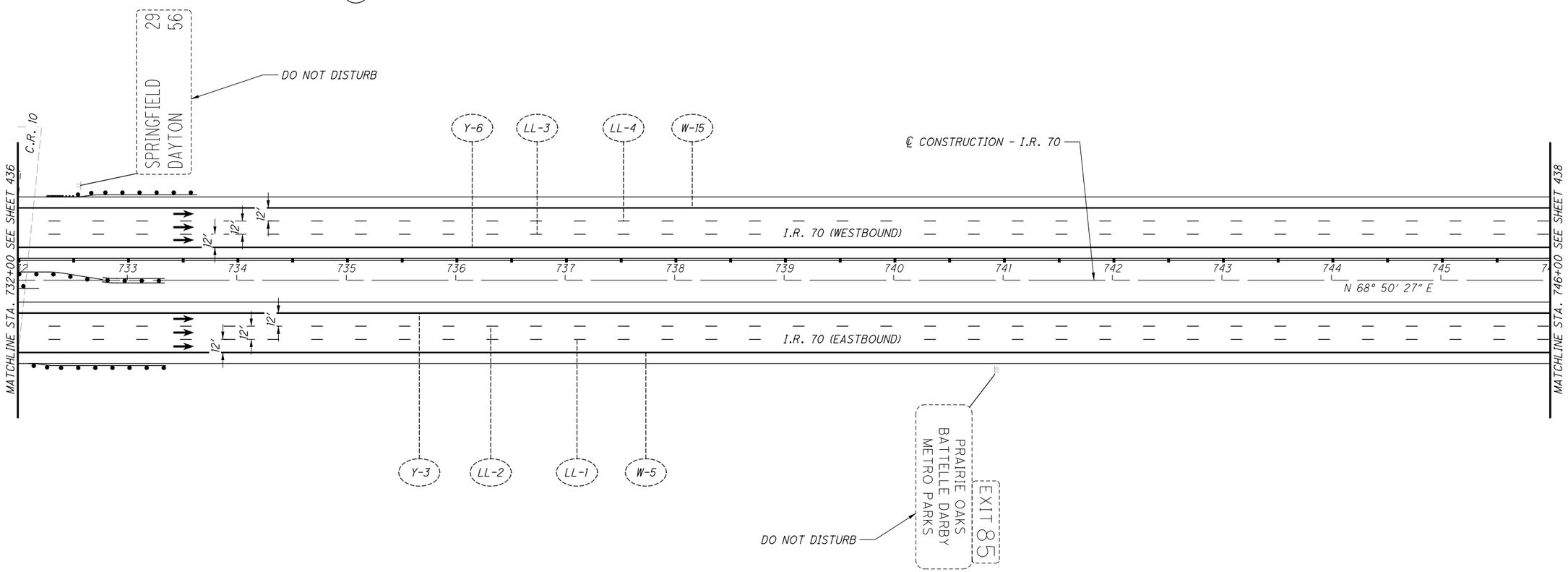
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 732+00 TO STA. 746+00

MAD-70-8.62

CALCULATED MLL CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
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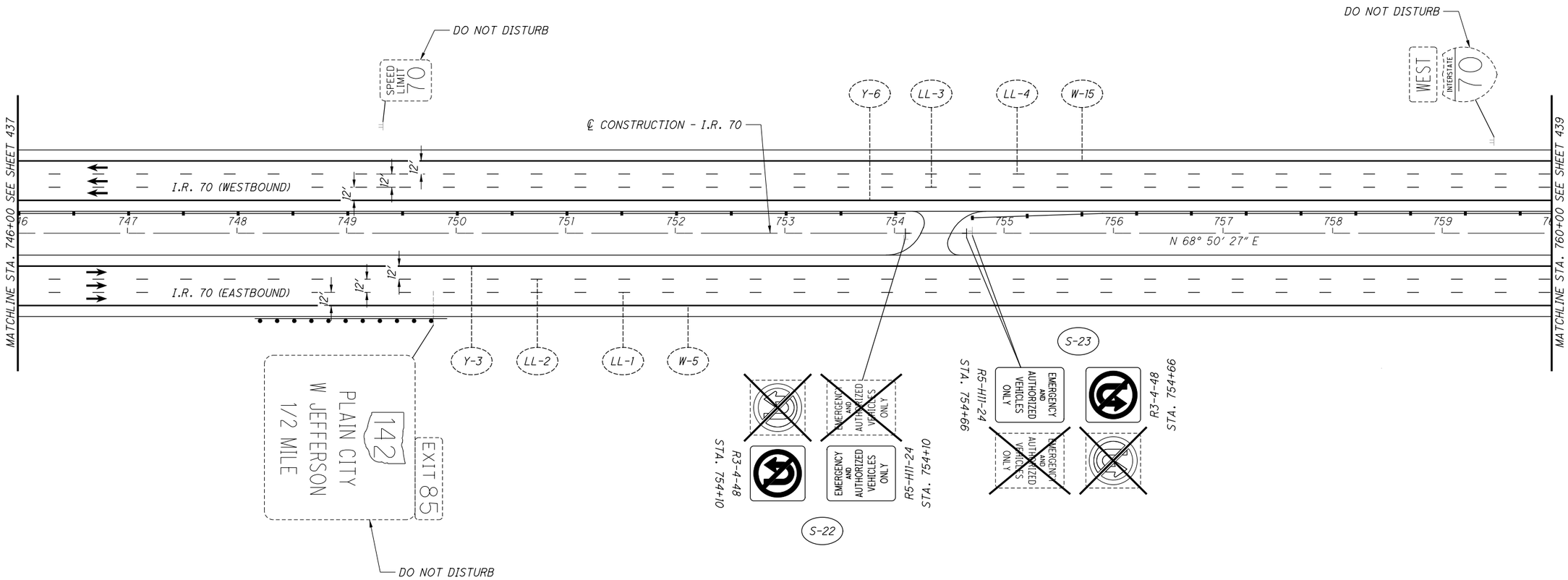
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 746+00 TO STA. 760+00

MAD-70-8.62

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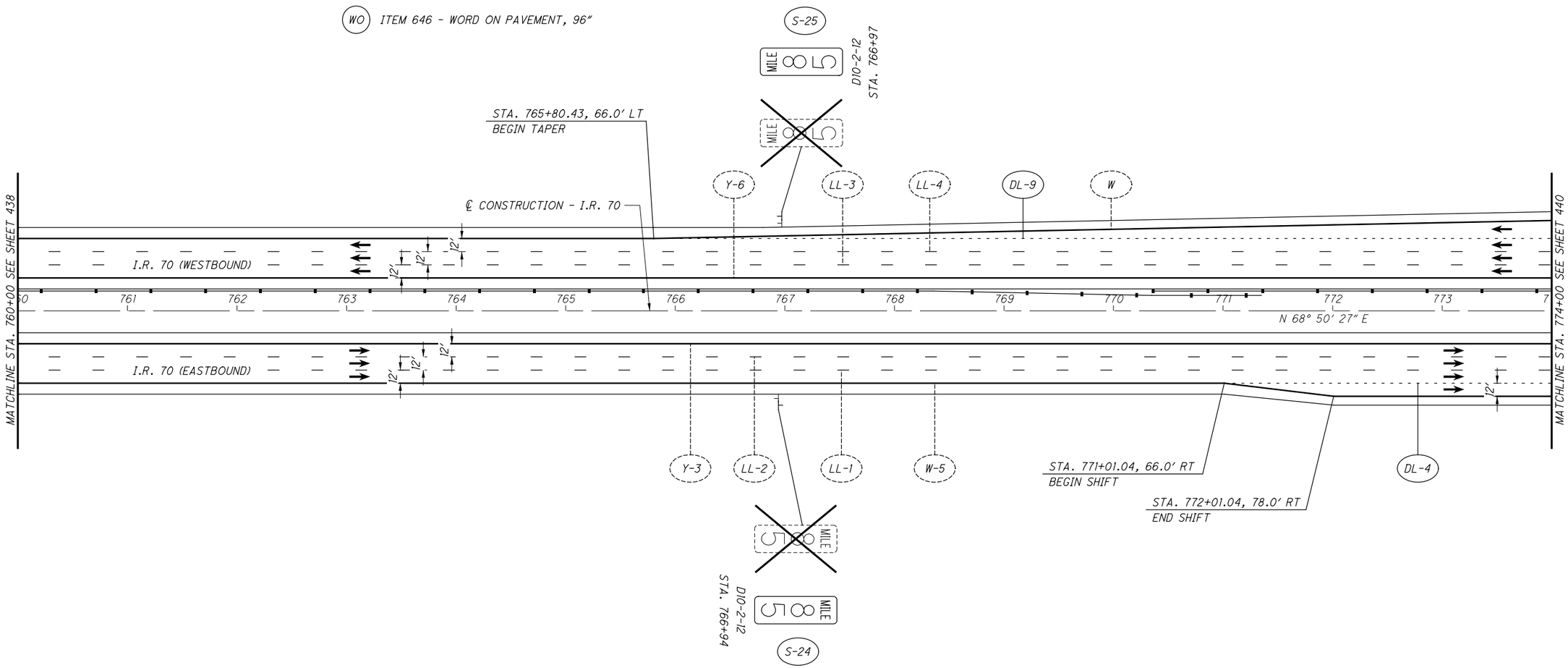
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 760+00 TO STA. 774+00

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL CHECKED MJC

MAD-70-8.62

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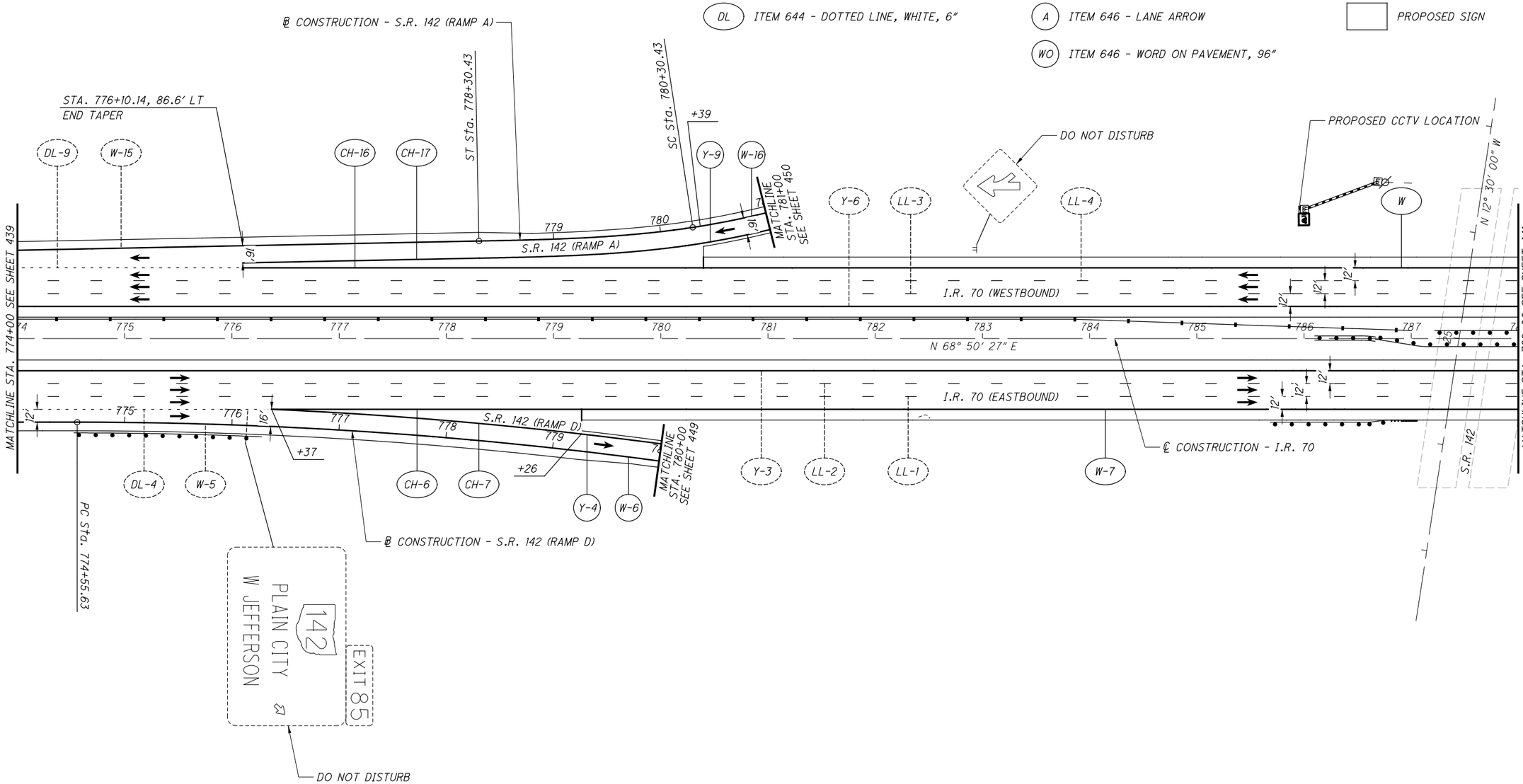
NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP A (S.R. 142) & RAMP D (S.R. 142) ACCORDING TO SCD TC-61.10.

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 774+00 TO STA. 788+00

MAD-70-8.62

440/470

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
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- (SL) ITEM 646 - STOP LINE
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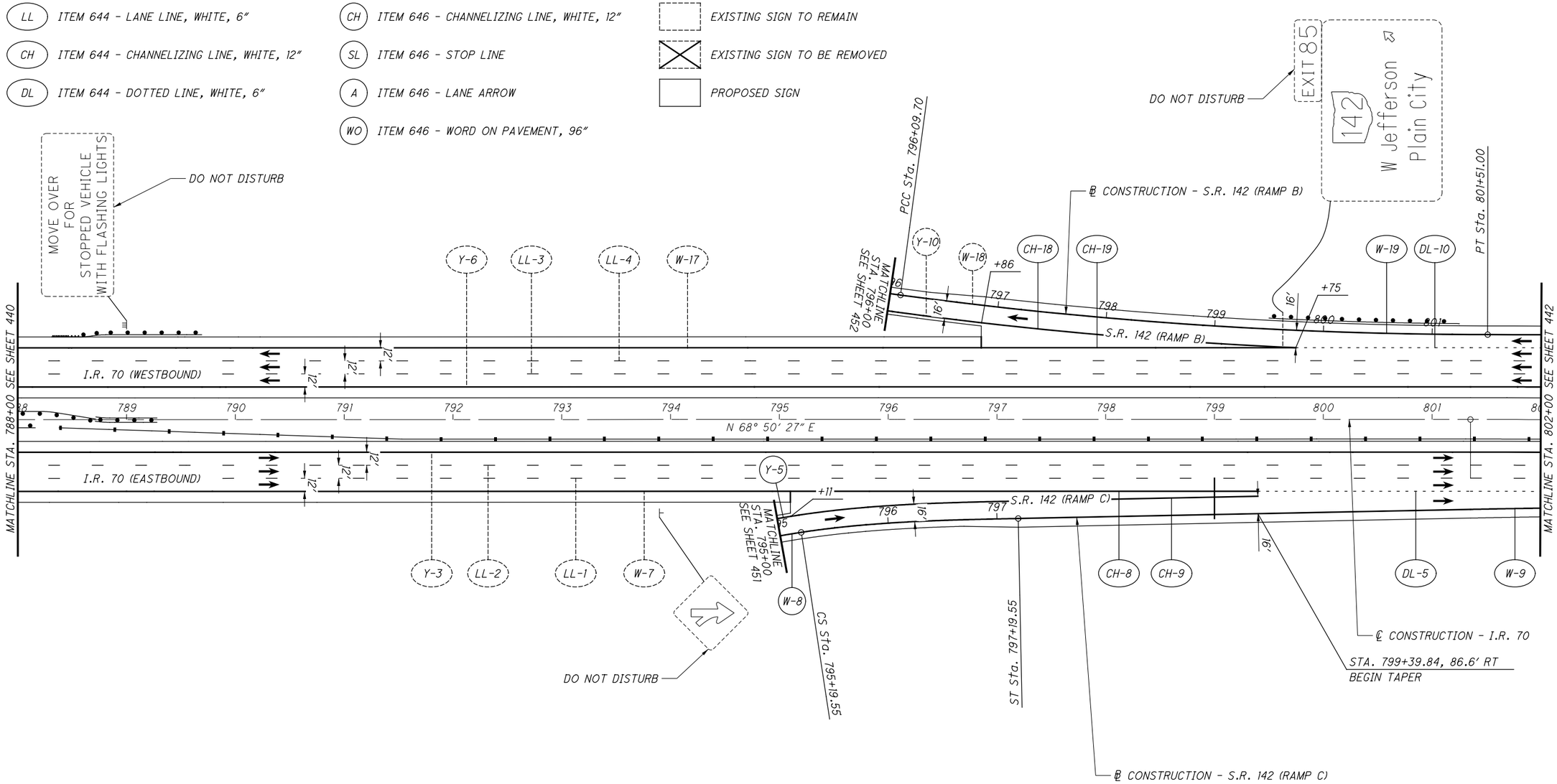
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP B (S.R. 142) & RAMP C (S.R. 142) ACCORDING TO SCD TC-61.10.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 788+00 TO STA. 802+00

MAD-70-8.62

441
470

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
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- (W) ITEM 646 - EDGE LINE, WHITE, 6"
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- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
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- PROPOSED SIGN

NOTES

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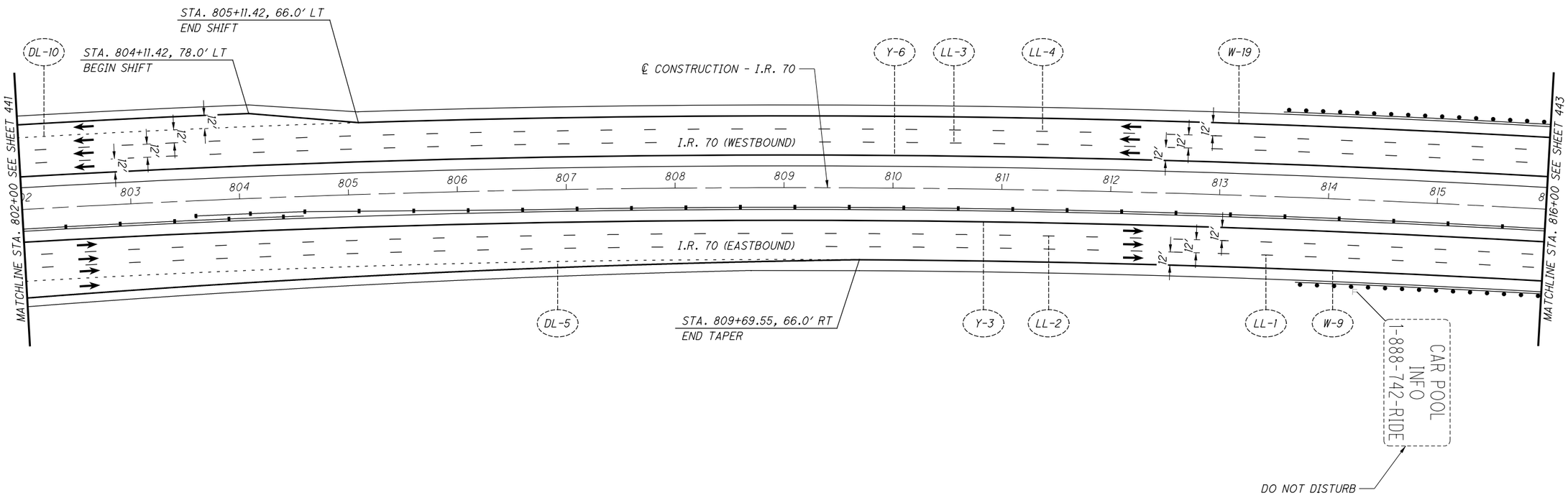

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

I.R. 70 - STA. 802+00 TO STA. 816+00

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED MLL
CHECKED MJC

MAD-70-8.62

NO.	DATE	DESCRIPTION

ISSUE RECORD

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LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
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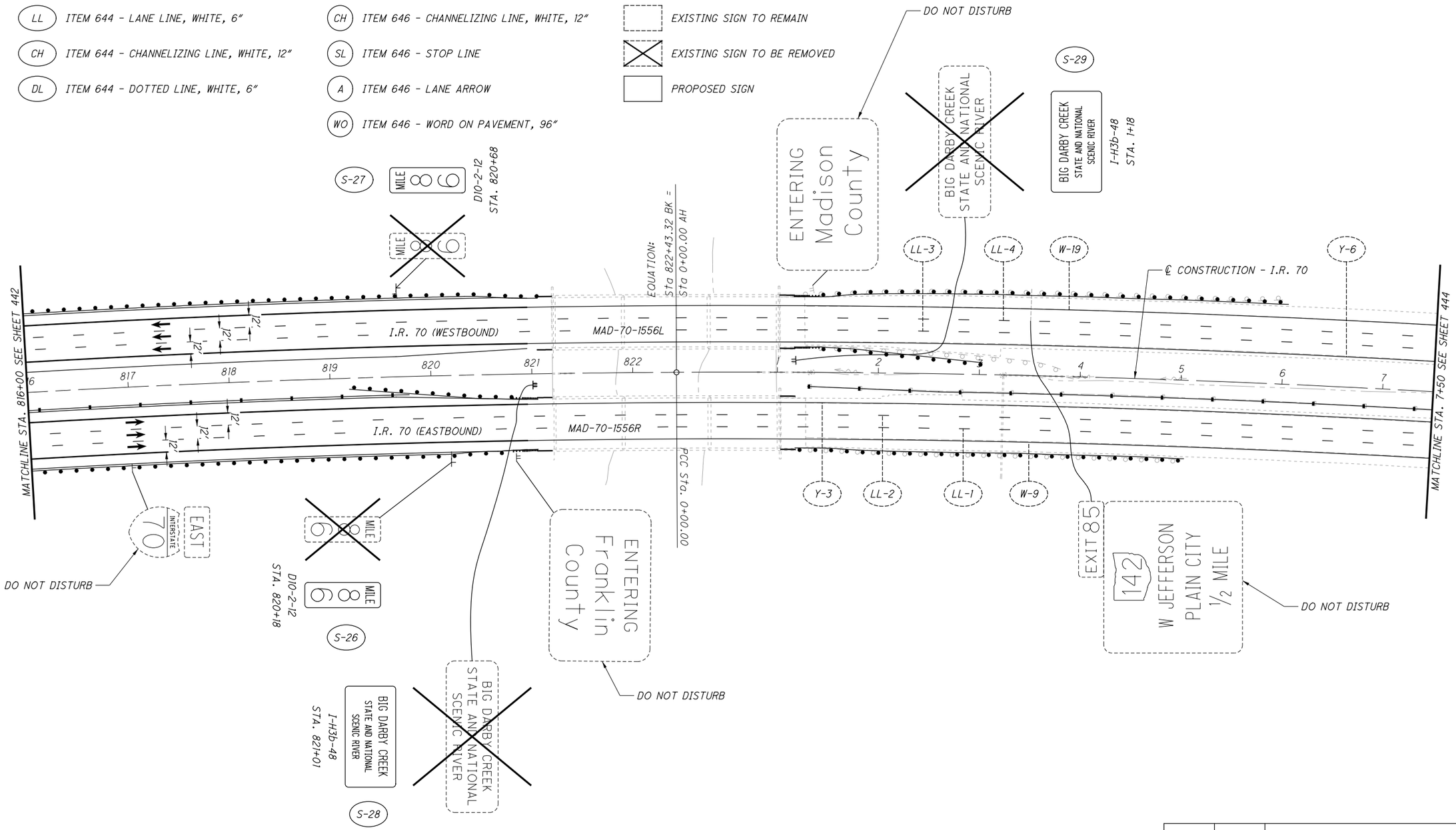
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 816+00 TO STA. 7+50

MAD-70-8.62

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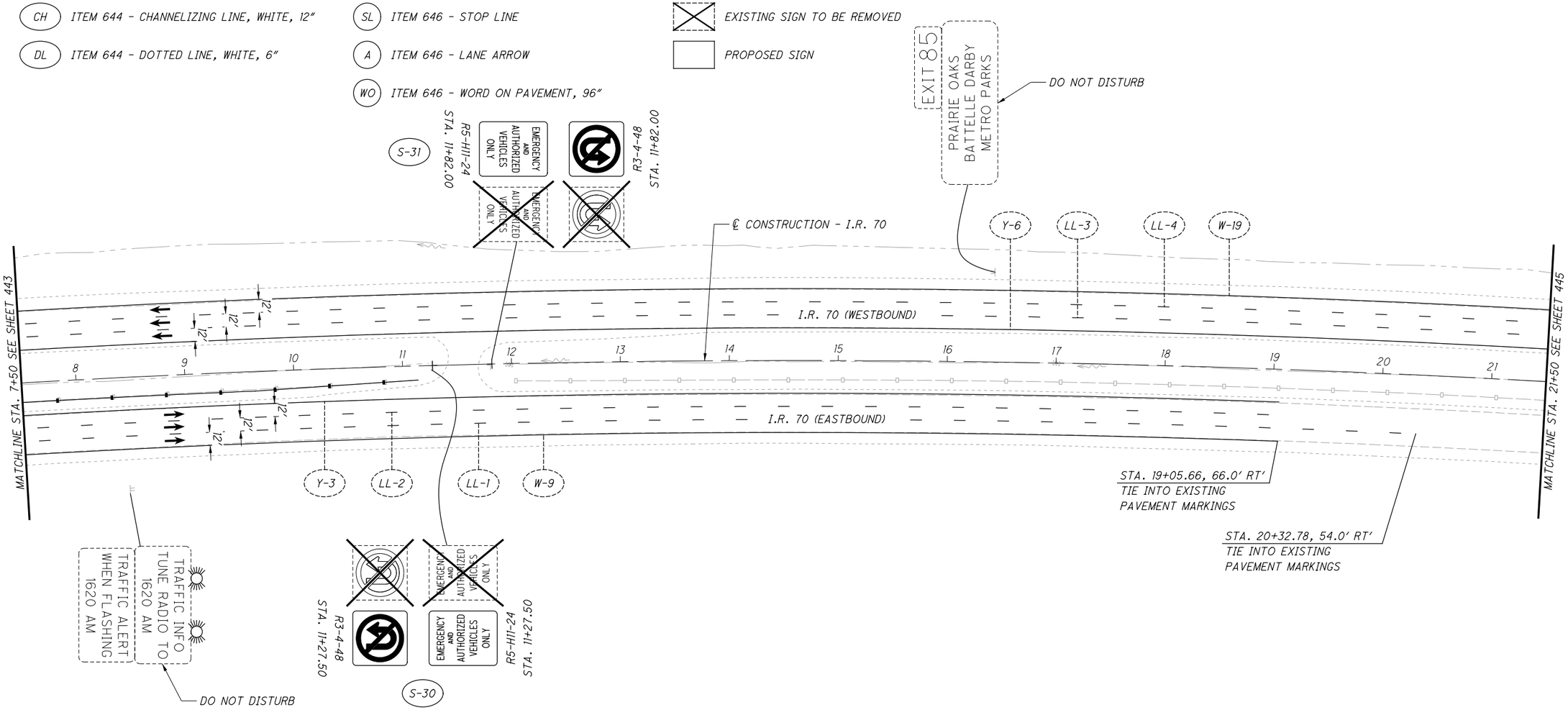
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 7+50 TO STA. 21+50

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

MAD-70-8.62

444
470

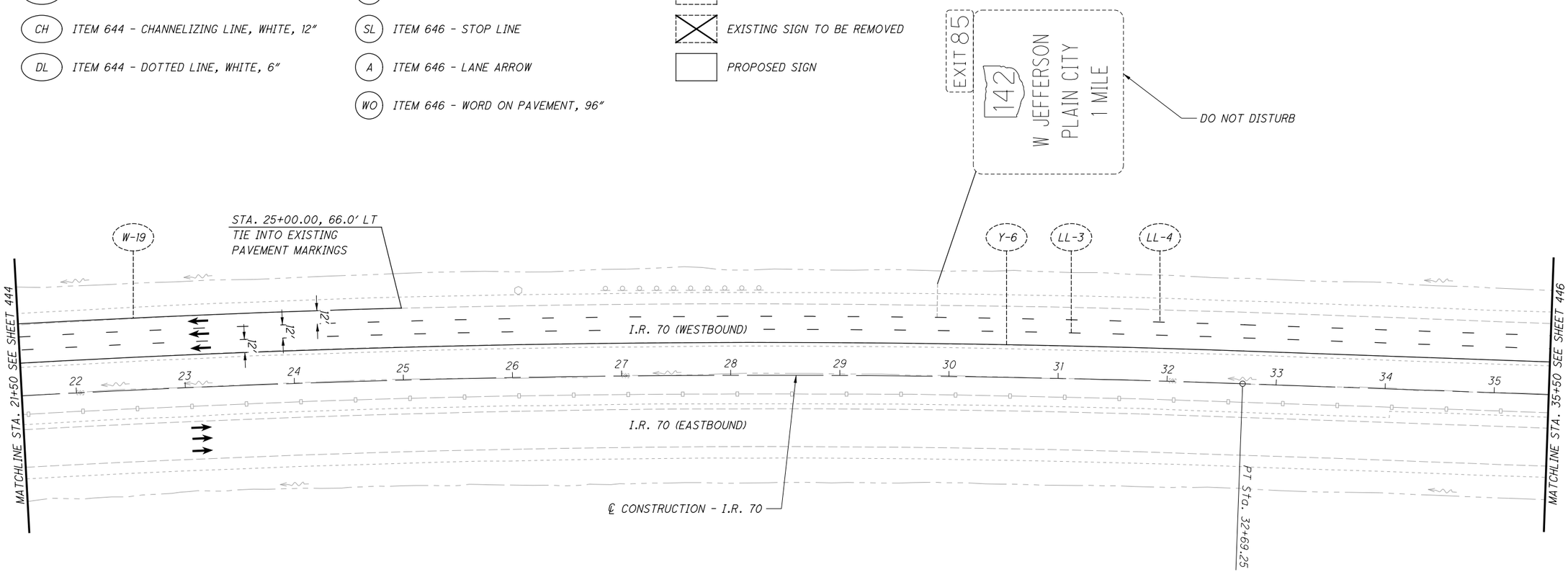
P:\107109_MAD-70-8.62DB\Design\Traffic\Sheets\107109_TP031.dgn Sheet 3/20/2019 9:53:38 AM mcornett

LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 21+50 TO STA. 35+50

MAD-70-8.62

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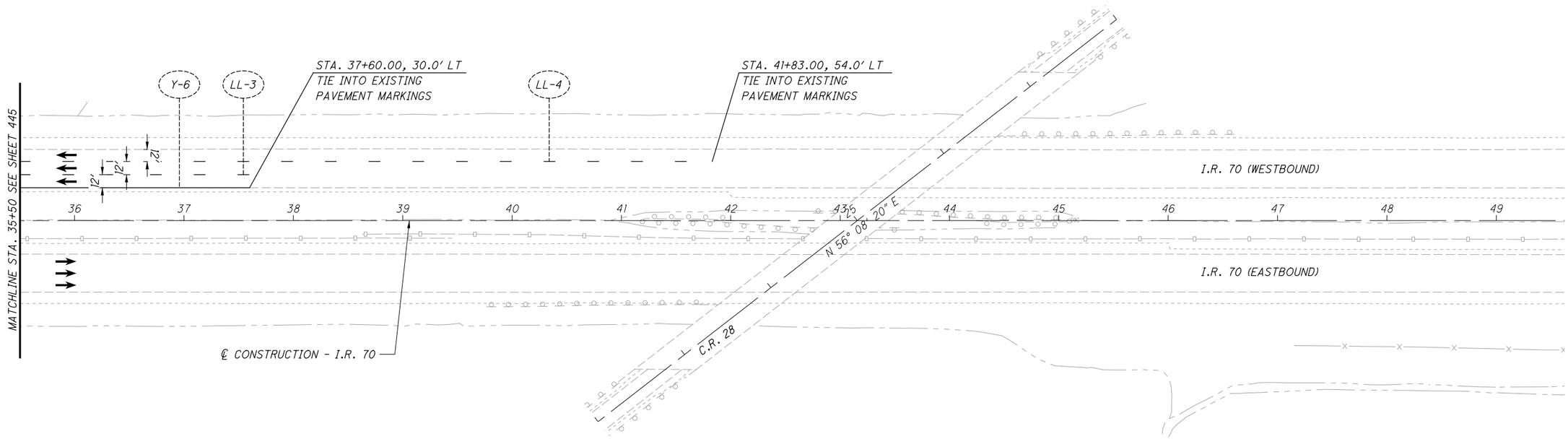
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
I.R. 70 - STA. 35+50 TO END WORK

MAD-70-8.62

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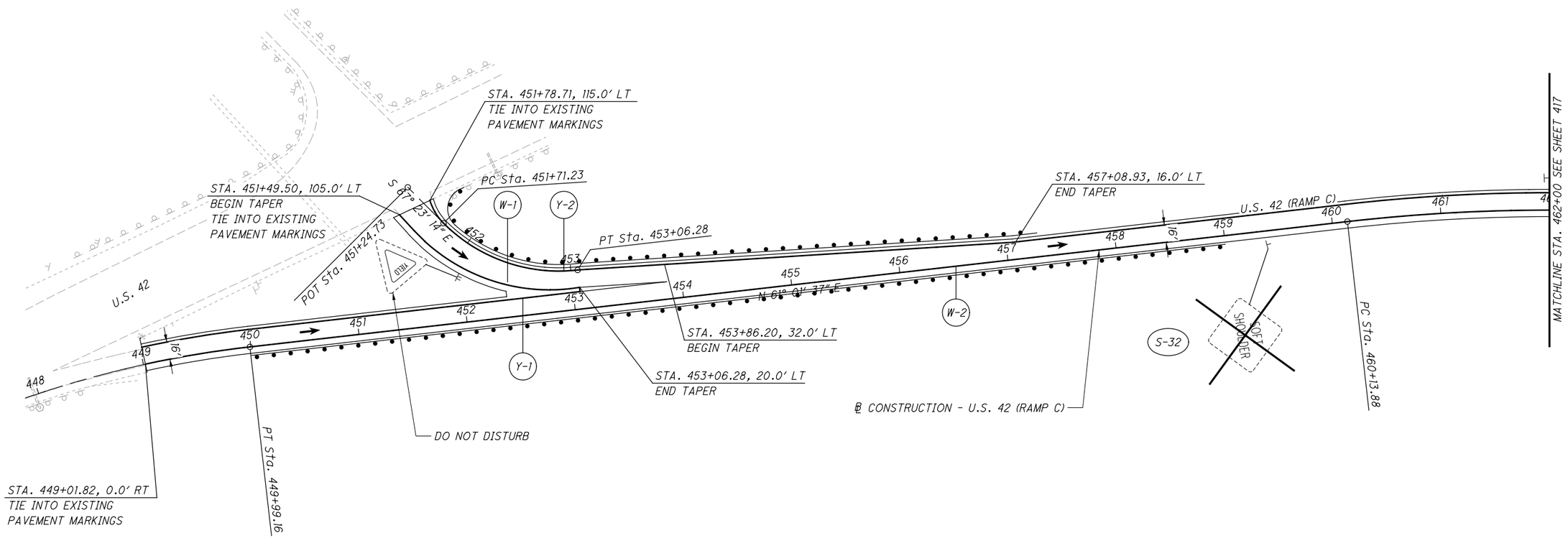
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP C (U.S. 42) ACCORDING TO SCD TC-61.10.



NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
U.S. 42 RAMP C - BEGIN WORK TO STA. 462+00

MAD-70-8.62

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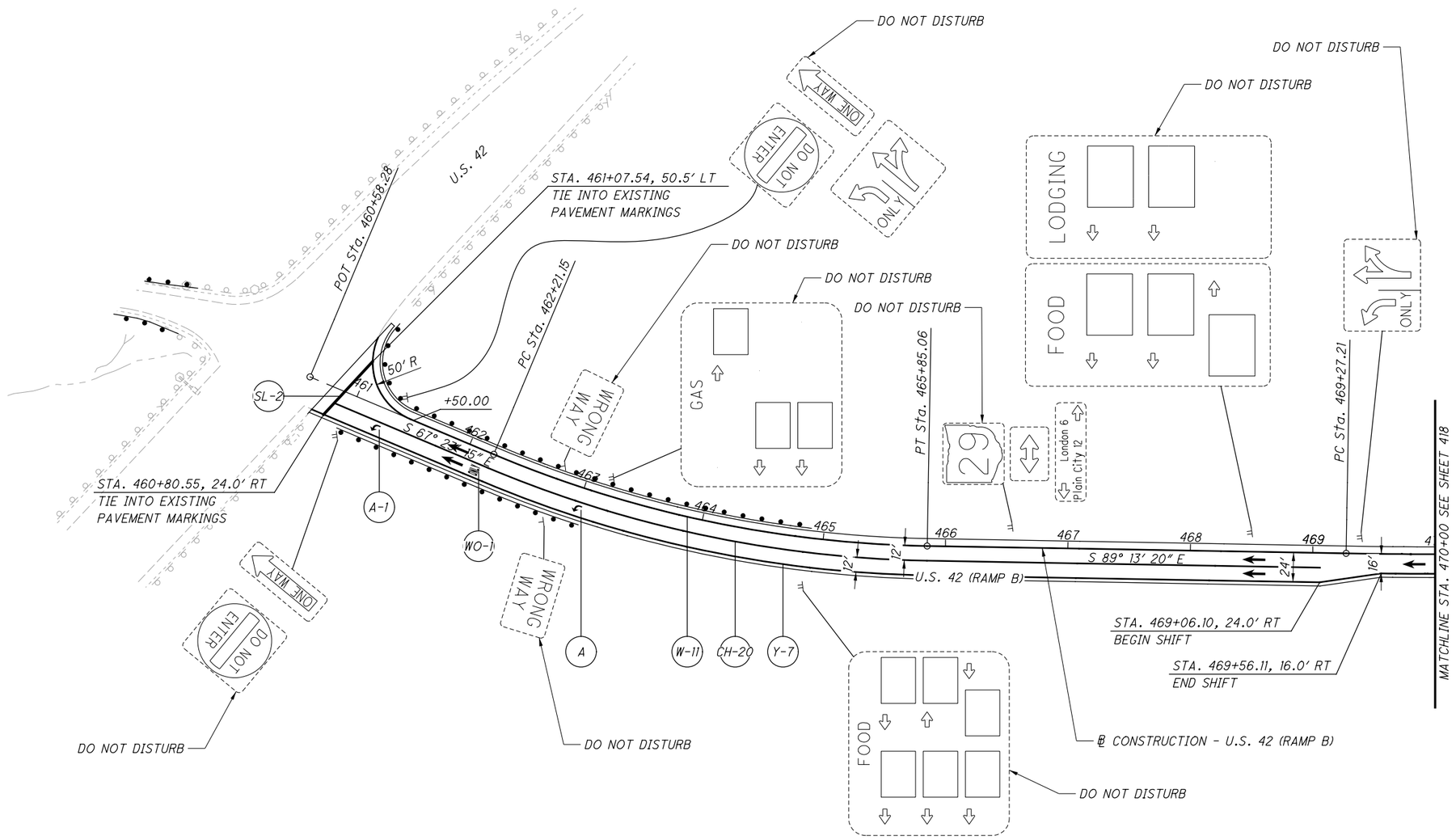

LEGEND:

Y	ITEM 644 - EDGE LINE, YELLOW, 6"
W	ITEM 644 - EDGE LINE, WHITE, 6"
LL	ITEM 644 - LANE LINE, WHITE, 6"
CH	ITEM 644 - CHANNELIZING LINE, WHITE, 12"
DL	ITEM 644 - DOTTED LINE, WHITE, 6"
Y	ITEM 646 - EDGE LINE, YELLOW, 6"
W	ITEM 646 - EDGE LINE, WHITE, 6"
CH	ITEM 646 - CHANNELIZING LINE, WHITE, 12"
SL	ITEM 646 - STOP LINE
A	ITEM 646 - LANE ARROW
WO	ITEM 646 - WORD ON PAVEMENT, 96"
S	GROUND MOUNTED SIGN
OH	OVERHEAD MOUNTED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP B (U.S. 42) ACCORDING TO SCD TC-61.10.

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
U.S. 42 RAMP B - BEGIN WORK TO STA. 470+00

MAD-70-8.62

448
470

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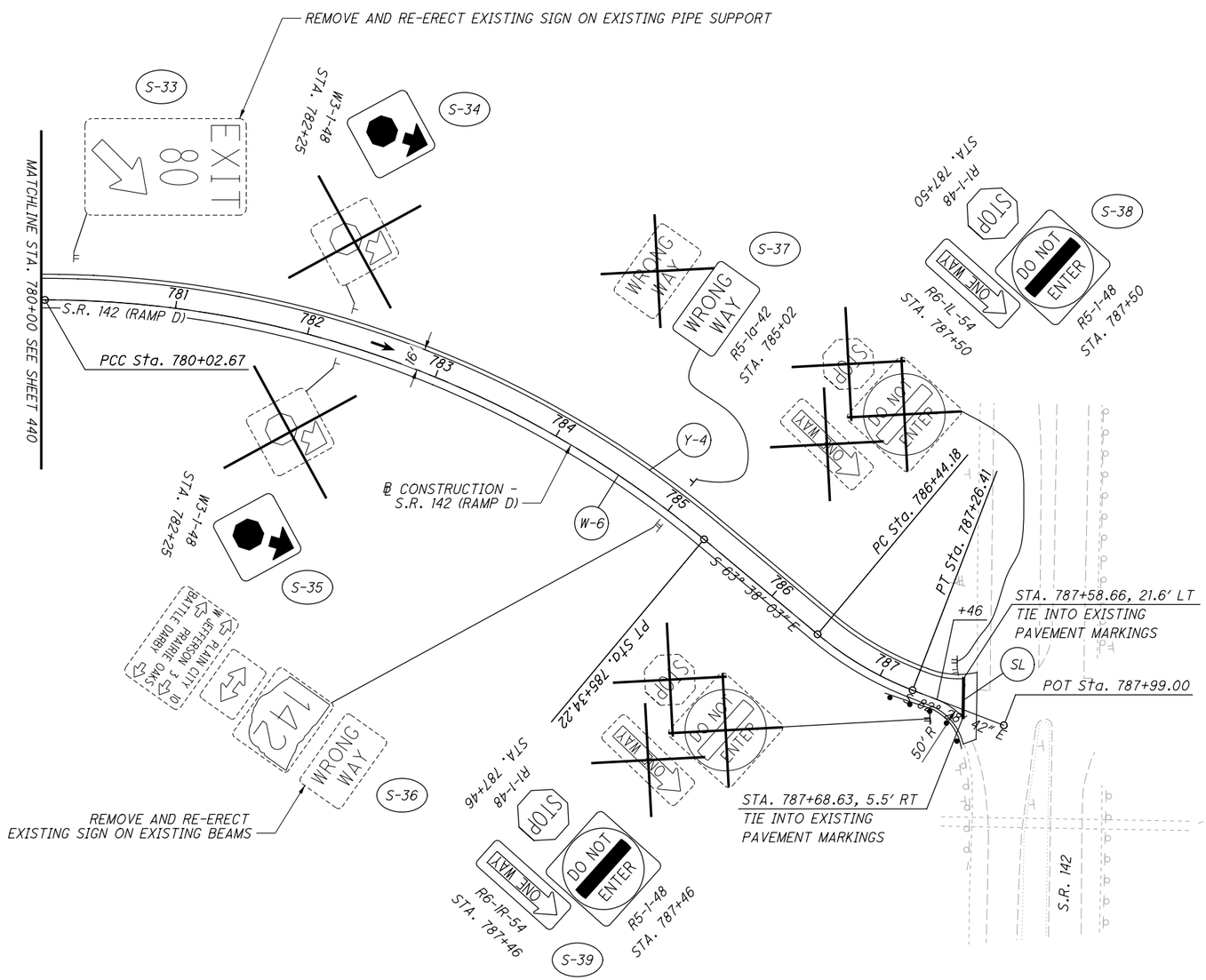
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP D (S.R. 142) ACCORDING TO SCD TC-61.10.
4. EXISTING PIPE AND BEAM SIGNS MASKED FOR REMOVAL SHALL BE REMOVED DUE TO MOT IMPACTS. THE EXISTING SUPPORTS MAY BE REUSED. THE EXISTING FOUNDATIONS MAY BE REUSED IF NOT IMPACTED BY TEMPORARY PAVEMENT. IF IMPACTED OR DAMAGED, THE CONTRACTOR SHALL INSTALL NEW FOUNDATIONS.



NO.	DATE	DESCRIPTION

ISSUE RECORD

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
S.R. 142 RAMP D - STA. 780+00 TO END WORK

MAD-70-8.62

449
470

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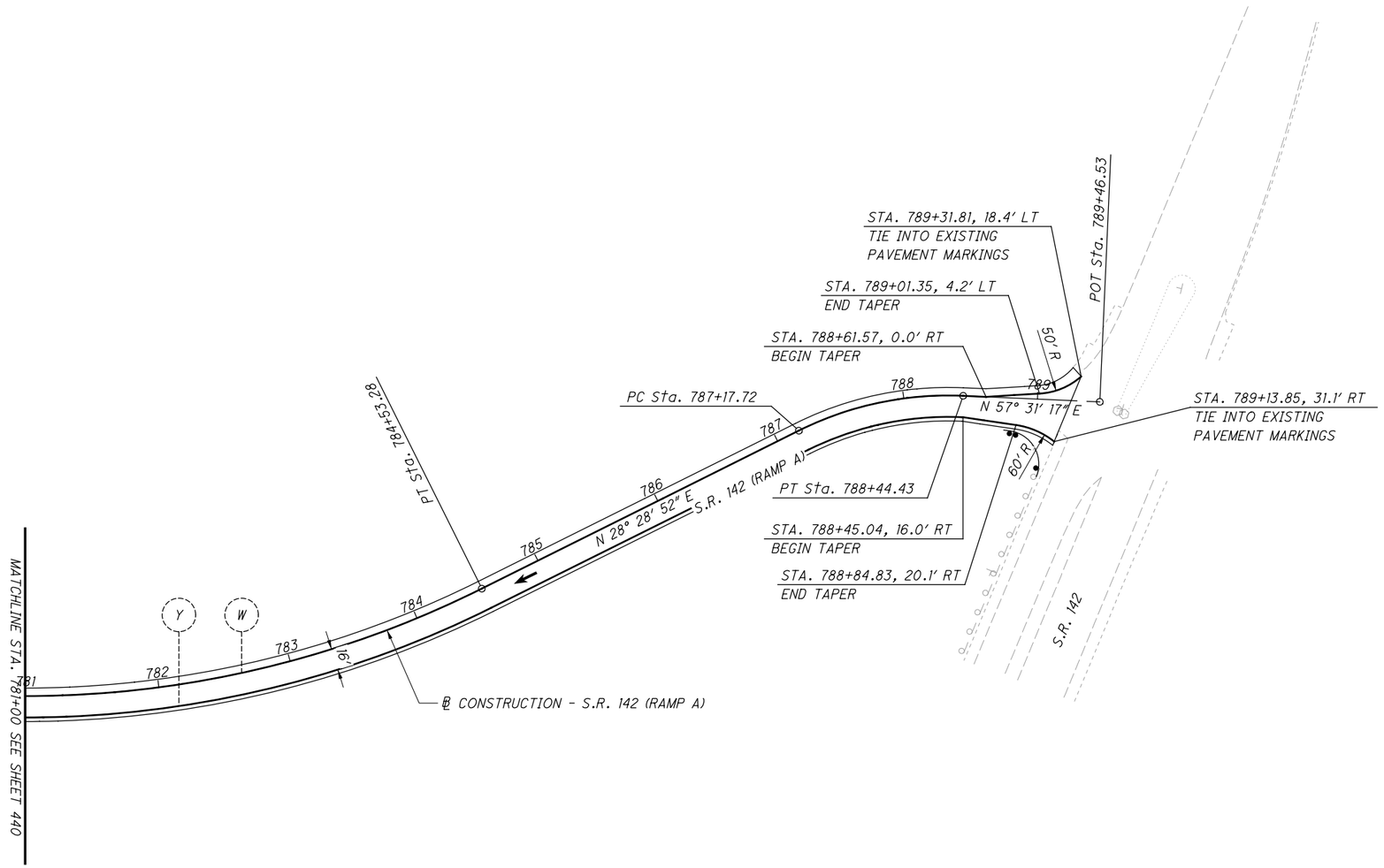

LEGEND:

Y	ITEM 644 - EDGE LINE, YELLOW, 6"	Y	ITEM 646 - EDGE LINE, YELLOW, 6"	S	GROUND MOUNTED SIGN
W	ITEM 644 - EDGE LINE, WHITE, 6"	W	ITEM 646 - EDGE LINE, WHITE, 6"	OH	OVERHEAD MOUNTED SIGN
LL	ITEM 644 - LANE LINE, WHITE, 6"	CH	ITEM 646 - CHANNELIZING LINE, WHITE, 12"		EXISTING SIGN TO REMAIN
CH	ITEM 644 - CHANNELIZING LINE, WHITE, 12"	SL	ITEM 646 - STOP LINE		EXISTING SIGN TO BE REMOVED
DL	ITEM 644 - DOTTED LINE, WHITE, 6"	A	ITEM 646 - LANE ARROW		PROPOSED SIGN
		WO	ITEM 646 - WORD ON PAVEMENT, 96"		

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP A (S.R. 142) ACCORDING TO SCD TC-61.10.

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

TRAFFIC CONTROL PLAN
S.R. 142 RAMP A - STA. 781+00 TO END WORK

MAD-70-8.62

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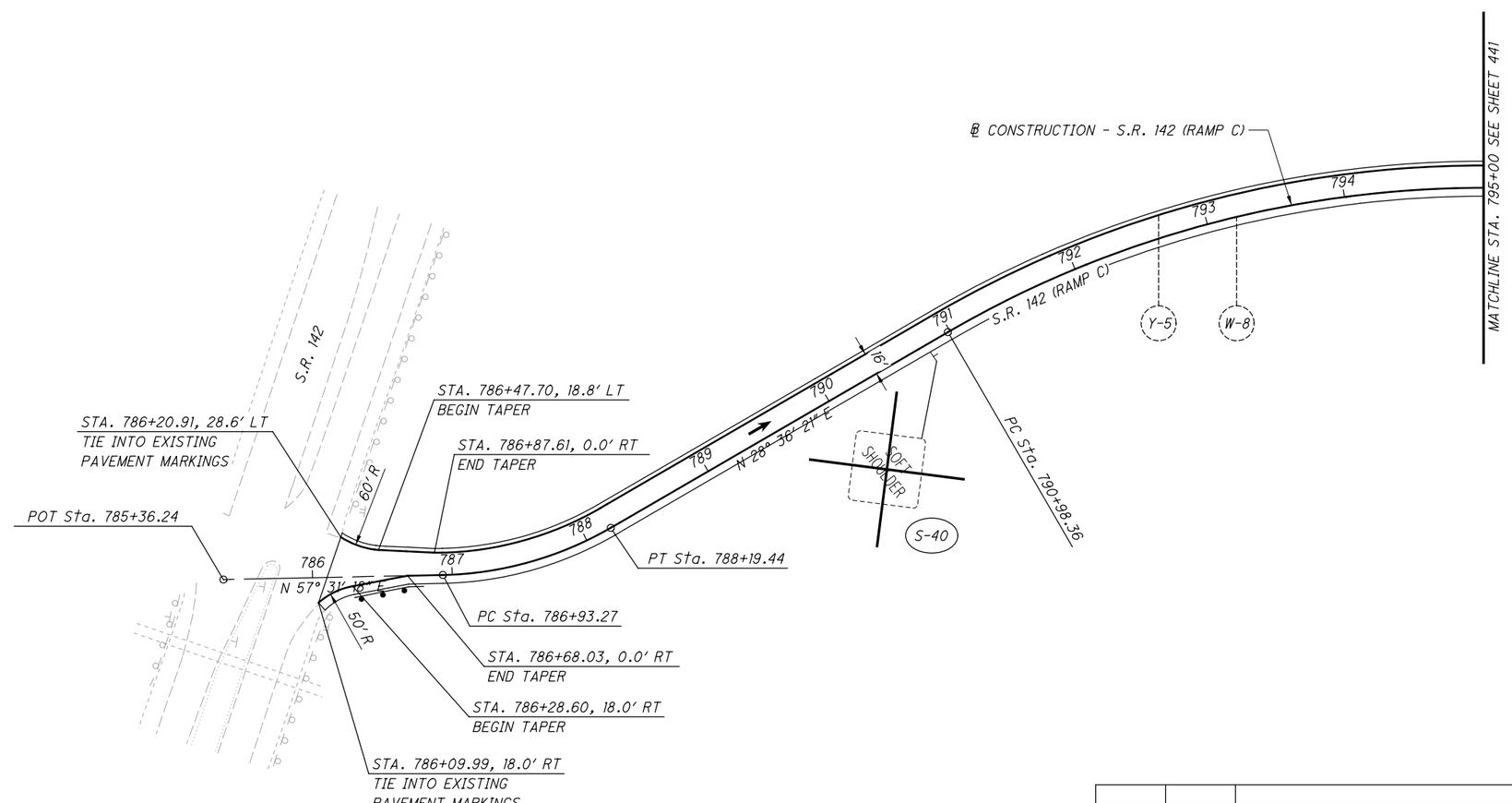
LEGEND:

- (Y) ITEM 644 - EDGE LINE, YELLOW, 6"
- (W) ITEM 644 - EDGE LINE, WHITE, 6"
- (LL) ITEM 644 - LANE LINE, WHITE, 6"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 12"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 6"
- (Y) ITEM 646 - EDGE LINE, YELLOW, 6"
- (W) ITEM 646 - EDGE LINE, WHITE, 6"
- (CH) ITEM 646 - CHANNELIZING LINE, WHITE, 12"
- (SL) ITEM 646 - STOP LINE
- (A) ITEM 646 - LANE ARROW
- (WO) ITEM 646 - WORD ON PAVEMENT, 96"
- (S) GROUND MOUNTED SIGN
- (OH) OVERHEAD MOUNTED SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP C (S.R. 142) ACCORDING TO SCD TC-61.10.



NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN

S.R. 142 RAMP C - BEGIN WORK TO STA. 795+00

CALCULATED MLL CHECKED MJC

HORIZONTAL SCALE IN FEET 0 25 50 100

MAD-70-8.62

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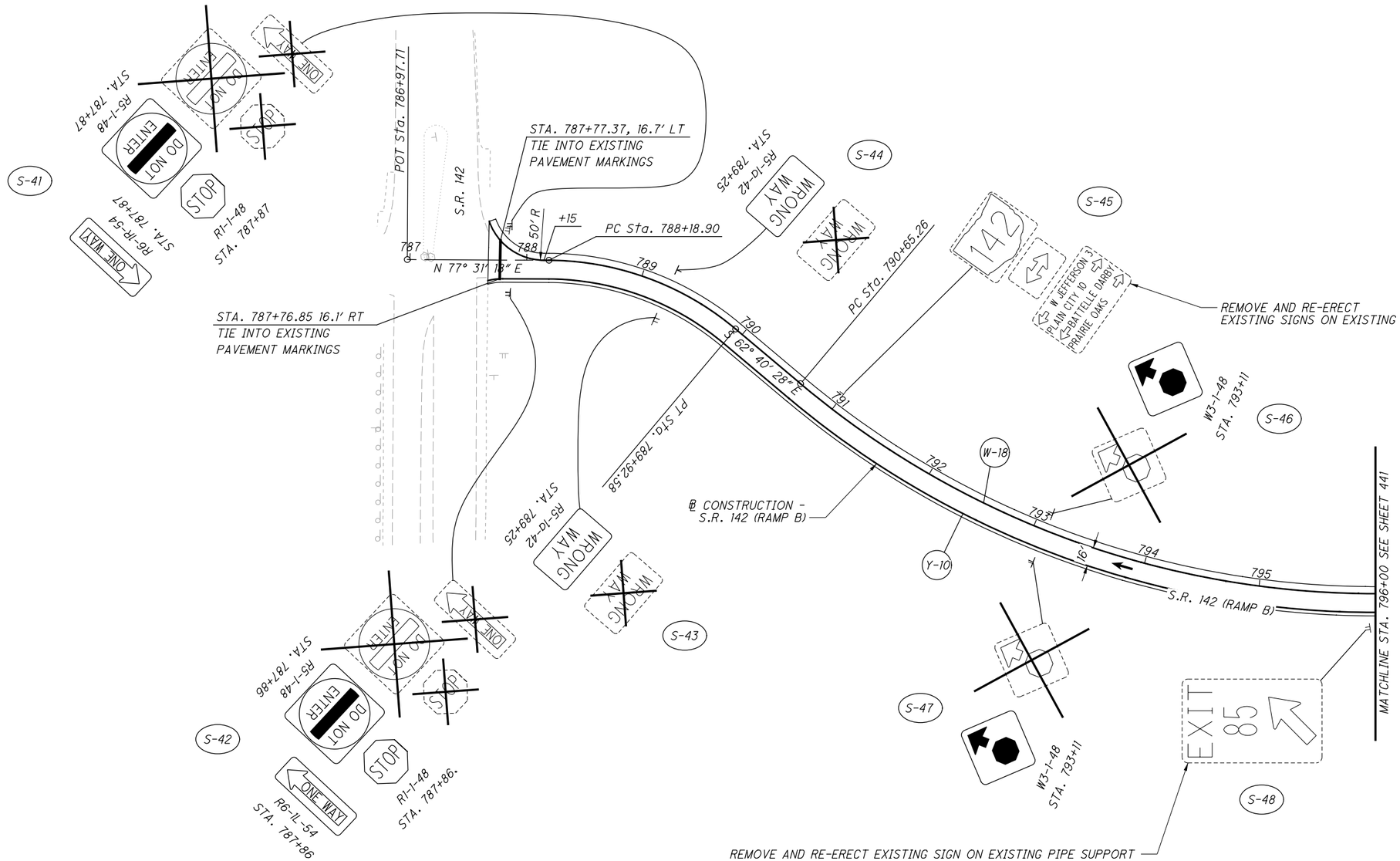

LEGEND:

Y	ITEM 644 - EDGE LINE, YELLOW, 6"
W	ITEM 644 - EDGE LINE, WHITE, 6"
LL	ITEM 644 - LANE LINE, WHITE, 6"
CH	ITEM 644 - CHANNELIZING LINE, WHITE, 12"
DL	ITEM 644 - DOTTED LINE, WHITE, 6"
Y	ITEM 646 - EDGE LINE, YELLOW, 6"
W	ITEM 646 - EDGE LINE, WHITE, 6"
CH	ITEM 646 - CHANNELIZING LINE, WHITE, 12"
SL	ITEM 646 - STOP LINE
A	ITEM 646 - LANE ARROW
WO	ITEM 646 - WORD ON PAVEMENT, 96"
S	GROUND MOUNTED SIGN
OH	OVERHEAD MOUNTED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

NOTES

1. RAISED PAVEMENT MARKERS SHALL BE PLACED ACCORDING TO SCD TC-65.10 & TC-65.11.
2. BARRIER REFLECTORS SHALL BE PLACED ON ALL GUARDRAIL, CONCRETE BARRIER, AND BRIDGE PARAPETS IN ACCORDANCE TO CMS 626.
3. DELINEATORS SHALL BE PLACED ALONG RAMP B (S.R. 142) ACCORDING TO SCD TC-61.10.
4. EXISTING PIPE AND BEAM SIGNS MASKED FOR REMOVAL SHALL BE REMOVED DUE TO MOT IMPACTS. THE EXISTING SUPPORTS MAY BE REUSED. THE EXISTING FOUNDATIONS MAY BE REUSED IF NOT IMPACTED BY TEMPORARY PAVEMENT. IF IMPACTED OR DAMAGED, THE CONTRACTOR SHALL INSTALL NEW FOUNDATIONS.

NO.	DATE	DESCRIPTION

ISSUE RECORD

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

TRAFFIC CONTROL PLAN
S.R. 142 RAMP B - BEGIN WORK TO STA. 796+00

MAD-70-8.62

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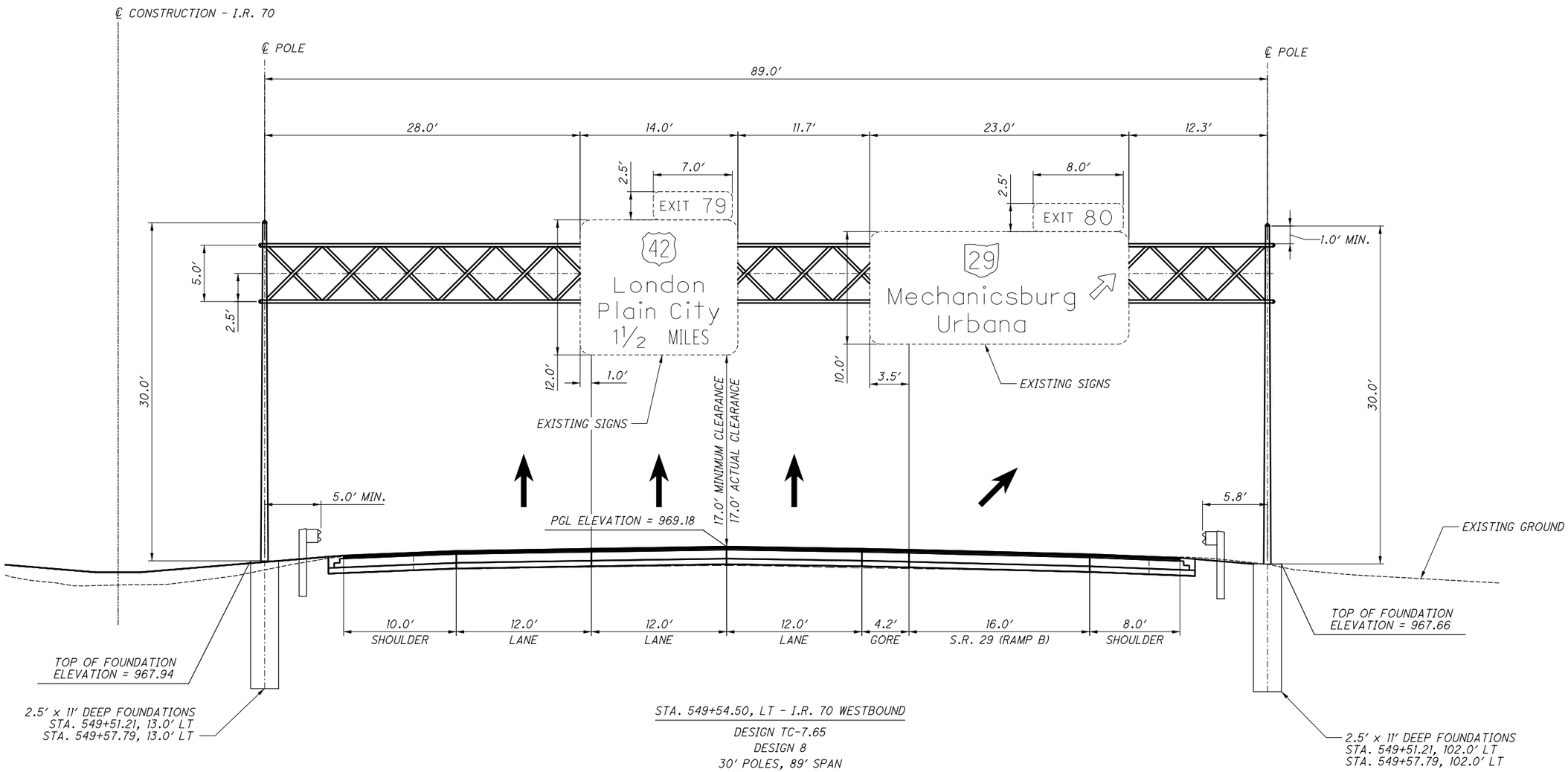

STA. 549+54.50, LT - I.R. 70 WESTBOUND

DESIGN TC-7.65
DESIGN 8
30′ POLES, 89′ SPAN

OH-1

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 2.5 5 10

CALCULATED MLL
CHECKED MJC

SIGN ELEVATION DETAIL
I.R. 70 - STA. 549+54.50

MAD-70-8.62

453
470

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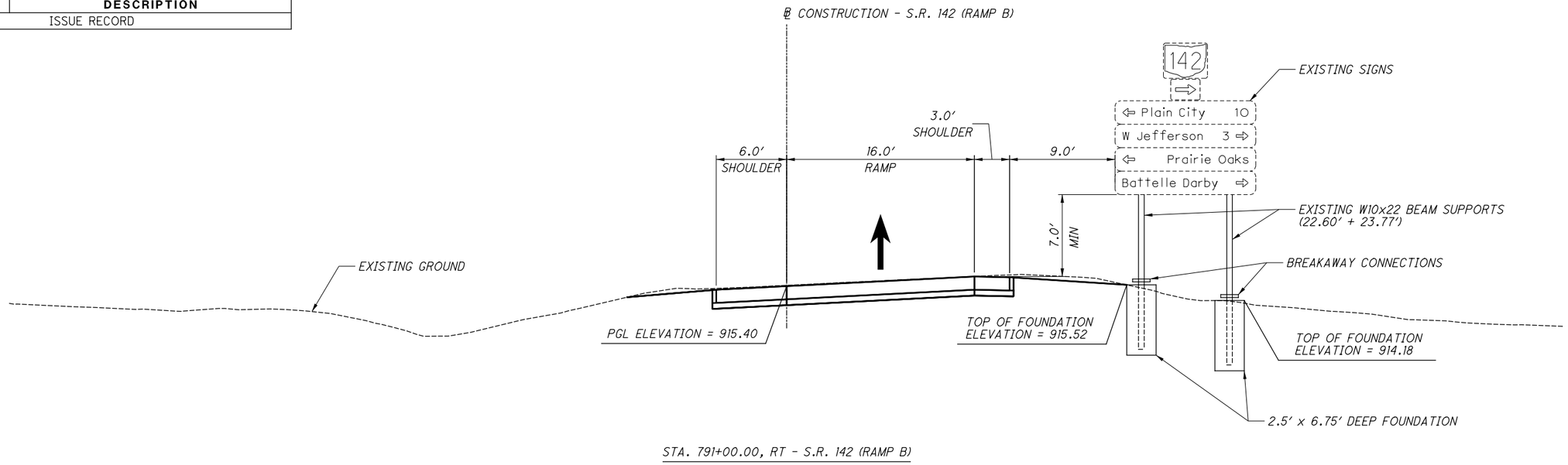
NO.	DATE	DESCRIPTION

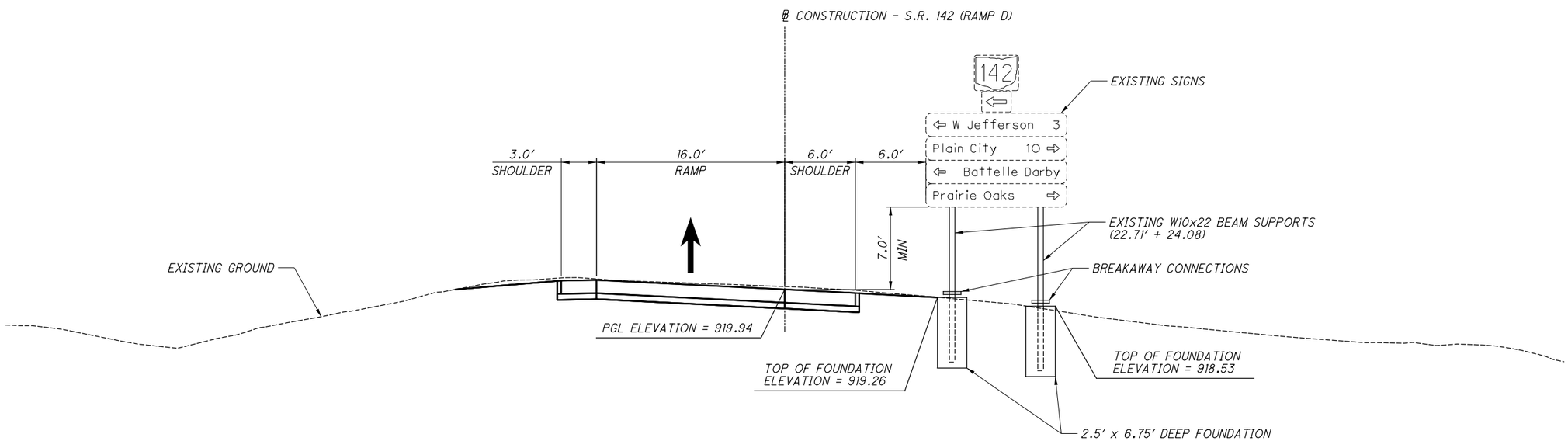
ISSUE RECORD



STA. 791+00.00, RT - S.R. 142 (RAMP B)

S-36

NOTE: THE CONTRACTER MAY REUSE THE EXISTING FOUNDATIONS IF NOT IMPACTED BY TEMPORARY PAVEMENT.



STA. 785+00.00, RT - S.R. 142 (RAMP D)

S-45

NOTE: THE CONTRACTER MAY REUSE THE EXISTING FOUNDATIONS IF NOT IMPACTED BY TEMPORARY PAVEMENT.

HORIZONTAL SCALE IN FEET 0 2.5 5 10

CALCULATED MLL
CHECKED MJC

APPROVED FOR CONSTRUCTION - 3/20/2019

SIGN ELEVATION DETAILS

MAD-70-8.62

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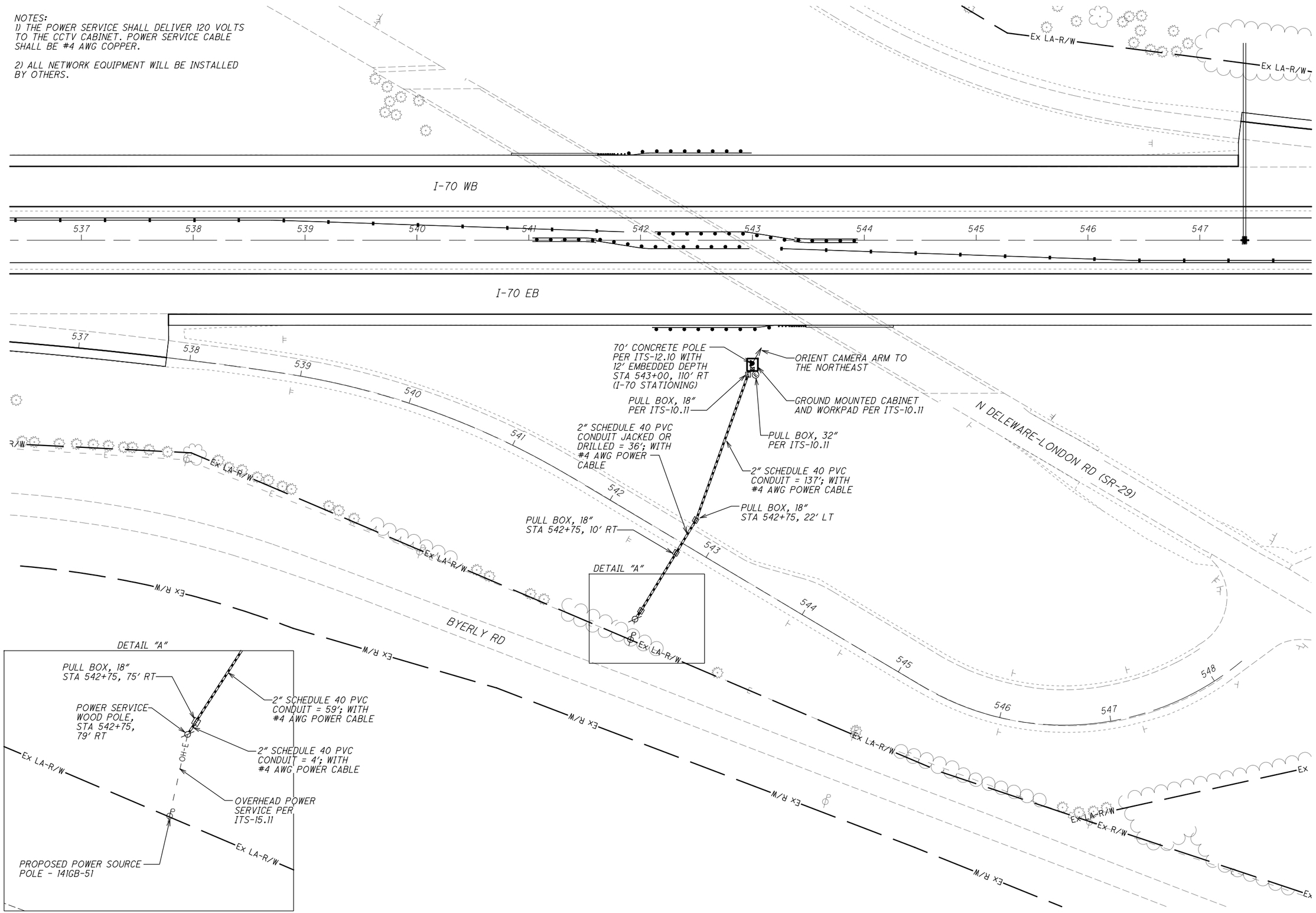
NOTES:
1) THE POWER SERVICE SHALL DELIVER 120 VOLTS TO THE CCTV CABINET. POWER SERVICE CABLE SHALL BE #4 AWG COPPER.

2) ALL NETWORK EQUIPMENT WILL BE INSTALLED BY OTHERS.



HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED MJH
CHECKED KAE

APPROVED FOR CONSTRUCTION - 3/20/2019

ITS PLAN

CAMERA #1 - I-70 AT SR-29 INTERCHANGE

MAD-70-8.62

455
470

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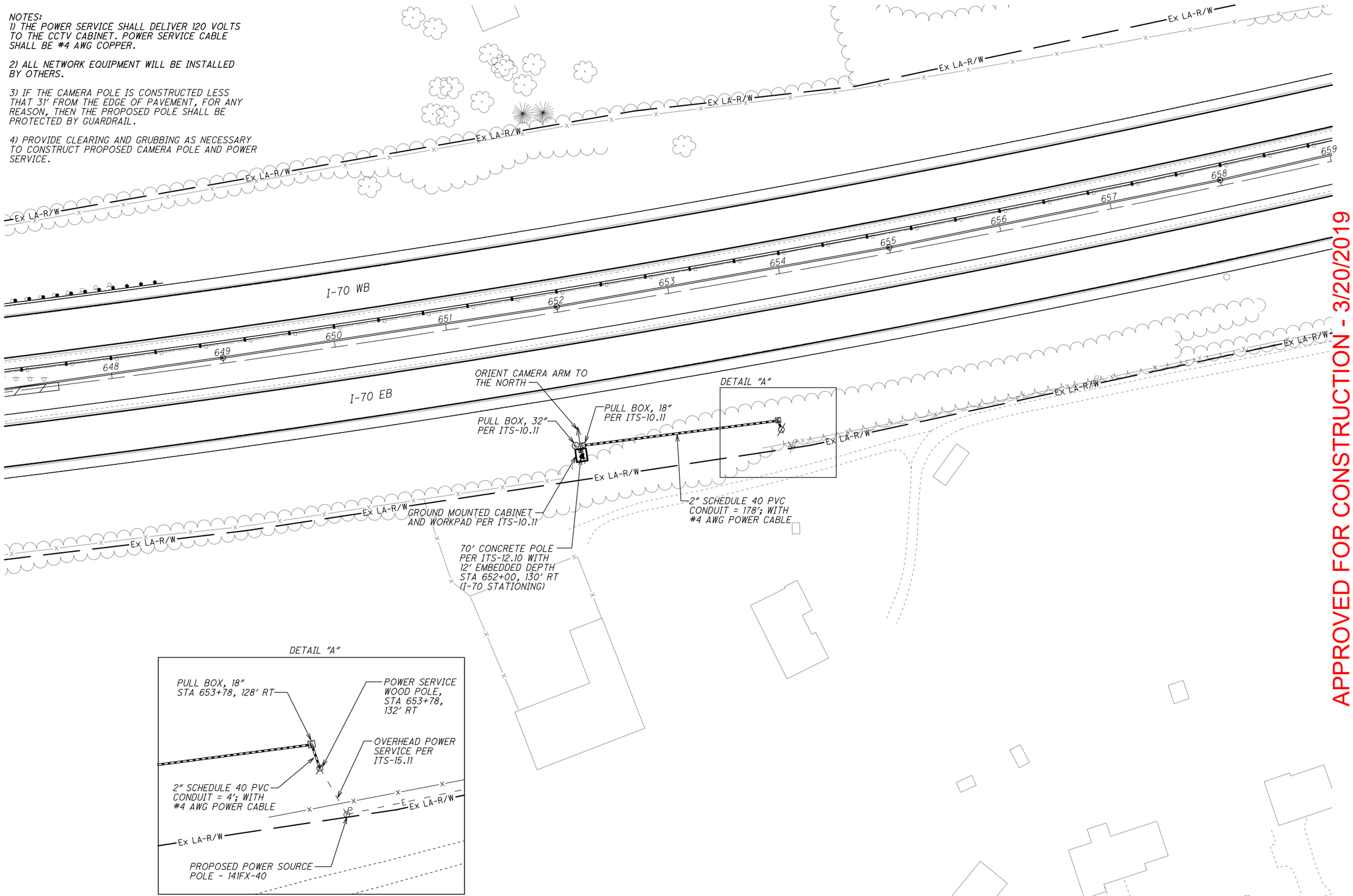
NOTES:
1) THE POWER SERVICE SHALL DELIVER 120 VOLTS TO THE CCTV CABINET. POWER SERVICE CABLE SHALL BE #4 AWG COPPER.

2) ALL NETWORK EQUIPMENT WILL BE INSTALLED BY OTHERS.

3) IF THE CAMERA POLE IS CONSTRUCTED LESS THAT 31' FROM THE EDGE OF PAVEMENT, FOR ANY REASON, THEN THE PROPOSED POLE SHALL BE PROTECTED BY GUARDRAIL.

4) PROVIDE CLEARING AND GRUBBING AS NECESSARY TO CONSTRUCT PROPOSED CAMERA POLE AND POWER SERVICE.



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 20 40 80

CALCULATED MJH
CHECKED KAE

ITS PLAN
CAMERA #2 - I-70 AT STA 652+00

MAD-70-8.62

456
470

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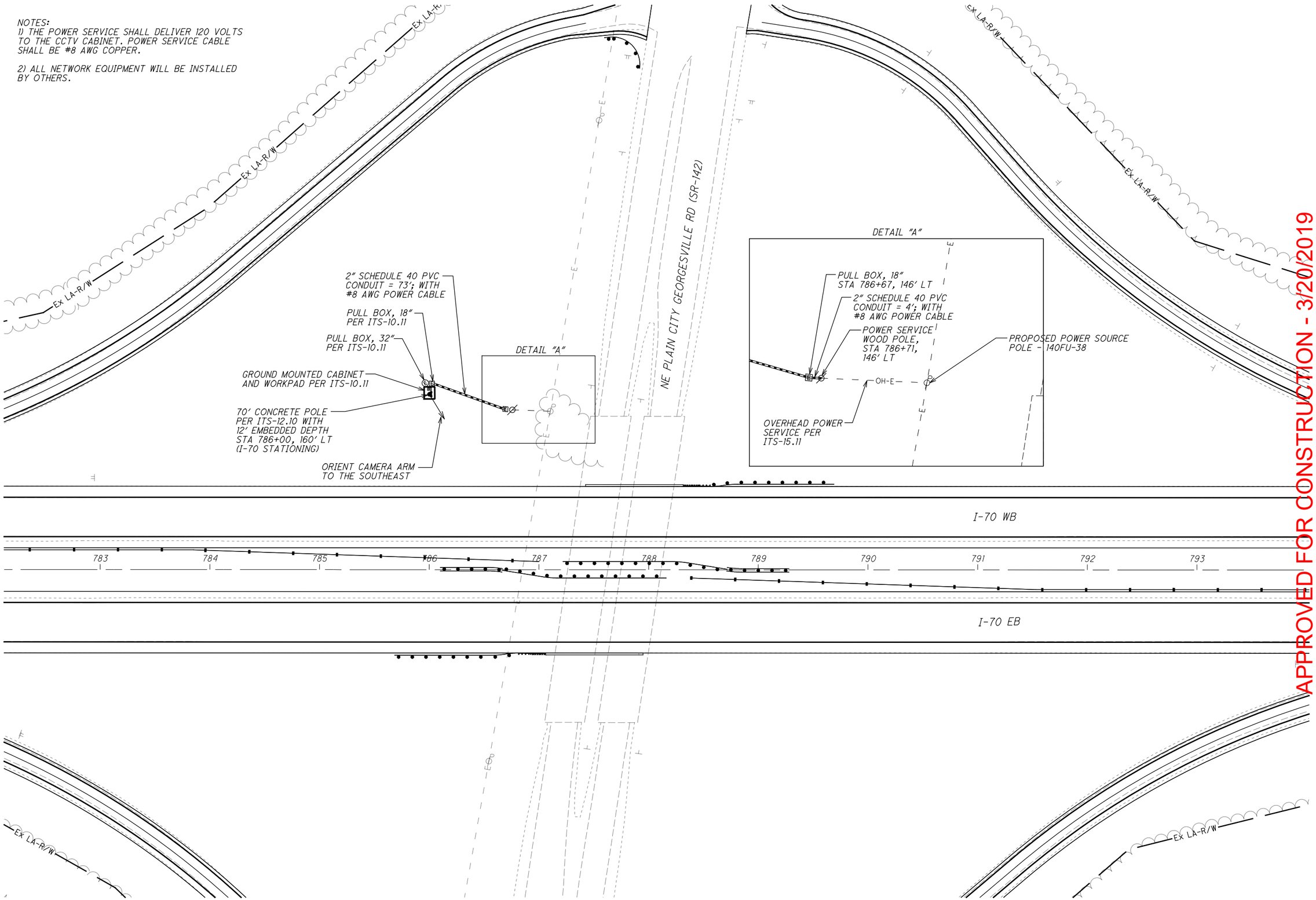
NOTES:
1) THE POWER SERVICE SHALL DELIVER 120 VOLTS TO THE CCTV CABINET. POWER SERVICE CABLE SHALL BE #8 AWG COPPER.

2) ALL NETWORK EQUIPMENT WILL BE INSTALLED BY OTHERS.



APPROVED FOR CONSTRUCTION - 3/20/2019

HORIZONTAL SCALE IN FEET 0 20 40 80

CALCULATED MJH
CHECKED KAE

ITS PLAN
CAMERA #3 - I-70 AT SR 142 INTERCHANGE

MAD-70-8.62

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WATER QUALITY PROTECTION

THIS PROJECT IS SUBJECT TO THE CONDITIONS OF NPDES PERMIT OHZOOOOOI. THE CONTRACTOR MUST SUBMIT A NOTICE OF INTENT AS A CO-PERMITTEE UNDER THIS PROJECT AND RECEIVE OEPA APPROVAL TO OPERATE UNDER THE PERMIT PRIOR TO UNDERTAKING ITEM 530 - SPECIAL STRUCTURES MISC.: CLEANING BRIDGES. CONTRACTOR MUST COMPLETE THE "WORK PLAN FOR BRIDGE CLEANING" FOR EACH BRIDGE IN ACCORDANCE WITH THE NPDES PERMIT.

ENVIRONMENTAL COMMITMENTS

ALL EQUIPMENT AND MATERIALS MUST BE STAGED ABOVE THE ORDINARY HIGH WATER MARK.

NO IN STREAM WORK IS PERMITTED.

NO TEMPORARY FILL IS PERMITED BELOW THE ORDINARY HIGH WATER MARK.

DEBRIS REMOVAL AND DISPOSAL

CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF DEBRIS IN ACCORDANCE WITH ALL ENVIRONMENTAL RESTRICTIONS AND PERMITS. DISPOSE ALL THE DEBRIS AS A RESULT OF THE BRIDGE CLEANING OPERATIONS IN ACCORDANCE WITH CMS 105.16 AND OAC 3745-27-05. UNDER NO CIRCUMSTANCES MAY SWEEPINGS BE SWEPT INTO THE OPEN DECK DRAINS, OVER THE EDGE OF THE BRIDGE, OR THROWN ALONG THE BANKS, OR INTO THE WATER.

ITEM 530 SPECIAL STRUCTURES MISC.: SWEEPING BRIDGES

PROVIDE MECHANIZED BRIDGE SWEEPING TO CLEAN AND REMOVE SAND, SOIL, PAPER, GLASS, CANS, GRASS CLIPPINGS, AND OTHER DEBRIS. AREAS TO BE SWEPT INCLUDE OUTSIDE AND MEDIAN PAVED SHOULDERS, GORE AREAS, AREAS ADJACENT TO BARRIER WALLS, AREAS ADJACENT TO MEDIAN-NOSES AND IMPACT ATTENUATOR, AREAS ON TOP OF INLET GRATES AND OTHER DESIGNATED SITES AS DETERMINED BY THE ENGINEER.

THE CONSTRACTOR IS RESPONSIBLE FOR CONTROL OF DUST AT ALL TIMES DURING SWEEPING OPERATIONS. DRY POWER BROOMING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL USE VACUUMING, WET SWEEPING, REGENERATIVE AIR SWEEPING, OR WET POWER BROOM SWEEPING. THE USE OF COMPRESSED AIR WILL BE PERMITTED ONLY WITH ACCEPTABLE DUST CONTROLS IN PLACE.

REMOVAL AND DISPOSAL OF DEBRIS:

DEBRIS MAY BE ENCOUNTERED THAT IS LARGER THAN THE MECHANIZED SWEEPER CAN REMOVE SUCH AS; TIRES, TIRE PARTS, HUB CAPS, LARGE STONES, BOXES, TREE LIMBS, WOOD, CABLE, AND OTHER SUCH MATERIALS. REMOVE ALL DEBRIS ENCOUNTERED USING OTHER MEANS (HAND OR MECHANIZED), REGARDLESS OF THE SIZE.

COMPLETED WORK WILL BE CLEAN AND FREE OF ALL ACCUMULATED DEBRIS IMMEDIATELY AFTER SWEEPING, AS DETERMINED BY THE ENGINEER. AREAS DETERMINED UNSATISFACTORY BY THE ENGINEER WITH BE RE-SWEPT TO THE SATISFACTION OF THE ENGINEER WITHIN THE TIME SPECIFIED, AT NO ADDITIONAL COST TO THE DEPARTMENT.

ITEM 530 SPECIAL STRUCTURES MISC.: CLEANING BRIDGES

THE WORK SHALL CONSIST OF THE REMOVAL OF DIRT, SAND, SOIL, PAPER, GLASS, CANS, AND OTHER DEBRIS FROM DRAINAGE SYSTEMS, EXPANSION JOINTS, AND ABUTMENT SEATS. EQUIPMENT MAY CONSIST OF HAND TOOLS, MANUAL BROOMS, POWER BROOMS, AIR COMPRESSORS, WATER TANKS, WATER PUMPS WITH ASSOCIATED DELIVERY HARDWARE TO CLEAN, FLUSH, AND REMOVE DIRT AND DEBRIS.

THE CLEANING OF SCUPPERS AND JOINTS SHALL NOT BE PERFORMED PRIOR TO PERFORMING ITEM 530 SPECIAL STRUCTURES MISC.: SWEEPING BRIDGES.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A BRIDGE CLEANING WORK PLAN INDICATED LOCATIONS OF ALL TEMPORARY BMP INSTALLED TO CAPTURE ANY WASH WATER USED IN THE CLEANING PROCESS. THE PLAN SHALL INCLUDE INSPECTION AND DOCUMENTATION OF BMP PERFORMANCE PRIOR TO WORK AND IMMEDIATELY FOLLOWING THE WORK. INTERMEDIATE INSPECTION SHALL BE CONDUCTED EVERY 4 HOURS UNTIL WORK IS COMPLETED.

CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, LABOR AND INCIDENTAL ITEMS NECESSARY TO PROPERLY REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER FOREIGN MATERIAL BY POWER SWEEPING, SHOVELING, SCRAPING, ETC. FOLLOWED BY INSTALLING BMPS AS IDENTIFIED IN THE WORK PLAN FOR BRIDGE CLEANING, AND PRESSURE WASHING THE CURB LINES, SHOULDERS, JOINTS, SCUPPERS, DOWNSPOUTS, AND THE BRIDGE SEAT ALONG WITH THE END OF THE BEAMS.

THE FOLLOWING AREAS OF THE BRIDGE ARE TO BE CLEANED:

BRIDGES MAD-70-1263 & MAD-70-1386:

1. CLEANING JOINTS FOR THE FULL WIDTH OF THE BRIDGE:
   - A) PREVENT ALL DIRT, DEBRIS, AND WASHWATER FROM ENTERING ANY DRAINAGE SYSTEM DURING THE CLEANING OPERATIONS.
   - B) REMOVE AND COLLECT LOOSE DEBRIS FROM THE JOINTS PRIOR TO INTRODUCING WATER. CARE SHOULD BE TAKEN WHEN BREAKING UP DEBRIS IN THE JOINTS IN ORDER NOT TO DAMAGE THE ELASTOMERIC SEAL.
   - C) SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT BY PRESSURE WASHING THE JOINTS OR USING COMPRESSED AIR.
2. CLEANING SCUPPERS AND DOWNSPOUTS:
   - A) USE SHOVEL, HAND SCRAPERS, AND OTHER HAND TOOLS TO BREAK UP DEBRIS IN SCUPPERS TO THE MAXIMUM EXTENT PRACTICABLE. COLLECT LOOSE AND LARGE DEBRIS FROM THE SCUPPERS PRIOR TO INTRODUCING WATER.
   - B) PRESSURE WASH THE SCUPPERS AND DOWNSPOUTS FOR FINAL CLEANING.
   - C) ALL DIRT OR DEBRIS FROM THE CLEANING OPERATION SHALL BE REMOVED.
3. BRIDGE SEATS:
   - A) REMOVE WITH A SHOVEL, BROOM, HAND SCRAPER OR OTHER MECHANICAL MEANS, ALL GROSS SOLIDS FROM THE ENTIRE BEAM SEATS AND AROUND ALL AREAS SURROUNDING THE BEAM BEARINGS, TO THE MAXIMUM EXTENT PRACTICABLE PRIOR TO INTRODUCING WATER.
   - B) AFTER REMOVING ALL GROSS SOLIDS, PRESSURE WASH THE ABUTMENTS, BACKWALLS, BEAM SEATS AND THE END OF THE BEAMS.

BRIDGES MAD-70-1556L/R & MAD-70-1217L/R:

1. CLEANING JOINTS FOR THE FULL WIDTH OF THE BRIDGE:
   - A) SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT FROM THE JOINTS BY VACUUMING WASH WATER USING A VACUUM TRUCK.
2. CLEANING SCUPPERS AND DOWNSPOUTS:
   - A) USE SHOVEL, HAND SCRAPERS AND OTHER HAND TOOLS TO BREAK UP DEBRIS IN SCUPPERS TO THE MAXIMUM EXTENT PRACTICABLE. COLLECT LOOSE AND LARGE DEBRIS FROM THE SCUPPERS PRIOR TO INTRODUCING WATER.
   - B) SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT FROM THE SCUPPERS BY VACUUMING WASH WATER USING A VACUUM TRUCK.
3. BRIDGE SEATS:
   - A) REMOVE WITH A SHOVEL, BROOM, HAND SCRAPER OR OTHER MECHANICAL MEANS, ALL GROSS SOLIDS FROM THE ENTIRE BEAM SEATS AND AROUND ALL AREAS SURROUNDING THE BEAM BEARINGS.
   - B) IF THE OVERLAND FLOW FROM THE BRIDGE SEAT TO THE WATER'S EDGE IS LESS THAN 20 FEET, NO WATER SHALL BE USED. COMPRESSED AIR MAY USED.

THE CONTRACTOR SHALL ENSURE THAT THE DRAINAGE SYSTEM REMAINS CLEAN AND FREE OF ALL DEBRIS UNTIL ALL WORK UNDER THIS CONTRACT IS COMPLETE. ANY DAMAGED OR DETERIORATED SYSTEMS SHALL BE REPORTED TO THE ENGINEER.

PRESSURE WASHING STRUCTURE CONCRETE

THE CONTRACTOR SHALL USE PORTABLE WATER FOR THE CLEANING OPERATION. DISCHARGING TO OR COLLECTING WATER FROM THE STREAMS IS PROHIBITED.

PRESSURE WASHER WATER PRESSURE SHALL BE CAPABLE OF 1,500 PSI. CONTRACTOR SHALL NOT PRESSURE WASH NEAR EXISTING UTILITIES OR BRIDGE ITEMS CONTAINING OR COATED WITH ASBESTOS OR TRANSITE. OPERATING PRESSURES SHALL BE SUFFICIENT TO REMOVE THE ACCUMULATED MATERIAL WITHOUT DAMAGING PAINT COVERAGE OF THE STRUCTURAL STEEL.

ITEM 614 - MAINTAINING TRAFFIC: SEE ROADWAY PLAN.

ESTABLISH TRAFFIC CONTROL OPERATIONS ON THE BRIDGE TO ENSURE WORKER SAFETY DURING MAINTENANCE ACTIVITIES. IF ROAD DEBRIS CAN FALL ON ACTIVE TRAFFIC BELOW BRIDGE, PROVIDE TRAFFIC CONTROL TO THE ROADWAY BELOW IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS.

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

E.L. ROBINSON ENGINEERING
14681 West 9th Street • Cleveland, Ohio 44113
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DESIGNED	DRAWN	REVIEWED	DATE
LAH	LAH	DFT	12/5/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JOL	XXX	VARIES	

BRIDGE CLEANING GENERAL NOTES
MAD-70-8.62

MAD-70-8.62
PID No. 107109

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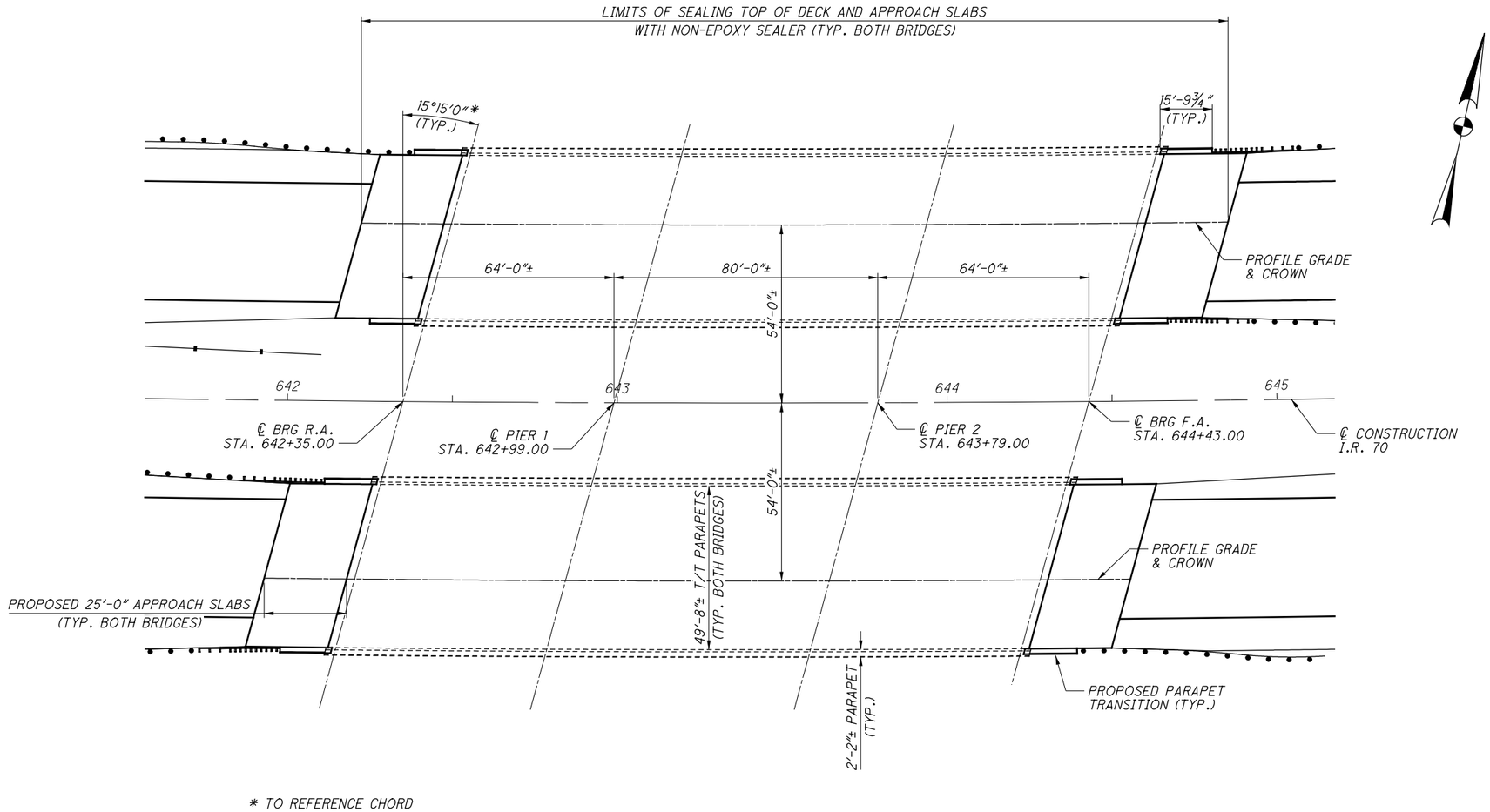

* TO REFERENCE CHORD

GENERAL PLAN

CURVE DATA

P.I. Sta. 646+54.16
Δ = 13° 38′ 15″ (LT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 1,468.10′
L = 2,922.33′
E = 87.46′
C = 2,915.43′
C.B. = N 75° 39′ 35″ E

PROPOSED WORK:

(CONSTRUCTION SEQUENCE TO BE DETERMINED BY CONTRACTOR)

1. REMOVE EXISTING APPROACH SLABS AND EXISTING PARAPETS ON APPROACH SLAB AND INSTALL NEW APPROACH SLABS AND PARAPETS ON APPROACH SLAB.
2. REPAIR PORTIONS OF PARAPETS.
3. SEAL DECK AND PROPOSED APPROACH SLABS WITH NON-EPOXY SEALER.
4. SEAL ALL PARAPETS WITH EPOXY-URETHANE SEALER.
5. CLEAN DIRT AND DEBRIS FROM DECK, SCUPPERS, EXPANSION JOINTS, BACKWALLS, BEAM SEATS, AND BEARINGS. (SEE BRIDGE CLEANING GENERAL NOTES ON SHEET 458)

NOTES:

SEE MOT PLANS FOR MAINTENANCE OF TRAFFIC.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD DRAWINGS:

AS-1-15	REVISED 7-17-15
BR-1-13	REVISED 7-19-13

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800	REVISED 4-20-18

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996 GRADE 60
MINIMUM YIELD STRENGTH 60,000 PSI

ITEM 509 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSEABLE BECAUSE OF CORROSION. THE DEPARMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSEABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

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JOL	---NA---	4902610/4902645	

GENERAL PLAN
BRIDGE NO. MAD-70-1217L/R
OVER LITTLE DARBY CREEK

MAD-70-8.62
PID No. 107109

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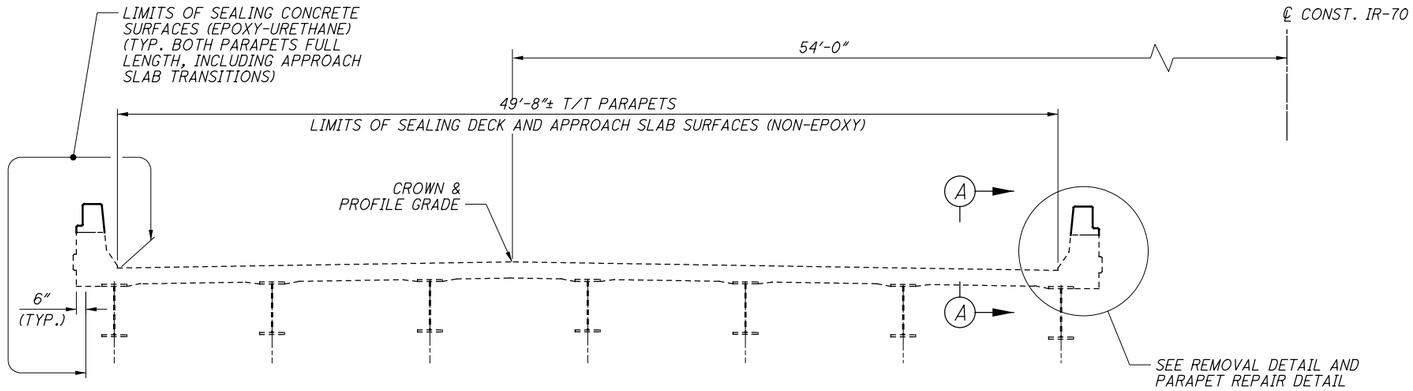
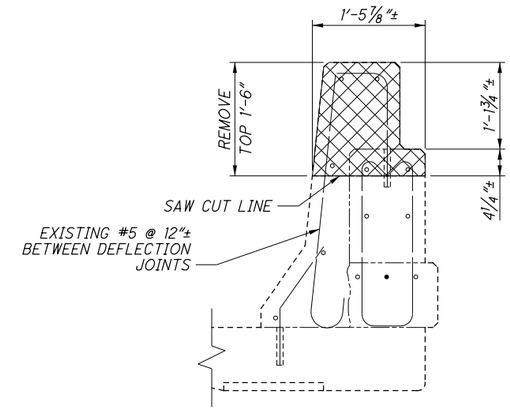
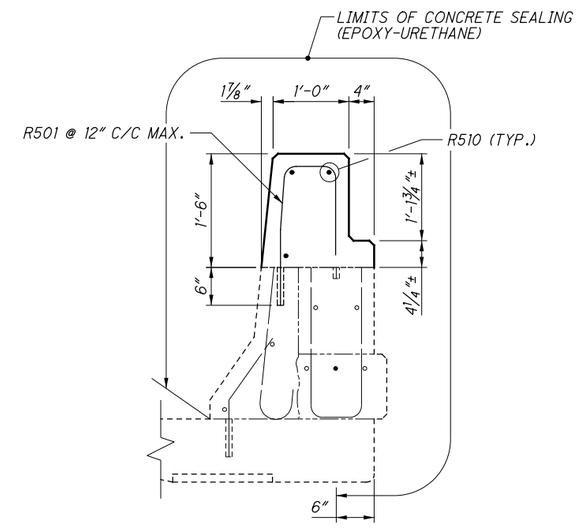


TRANSVERSE SECTION

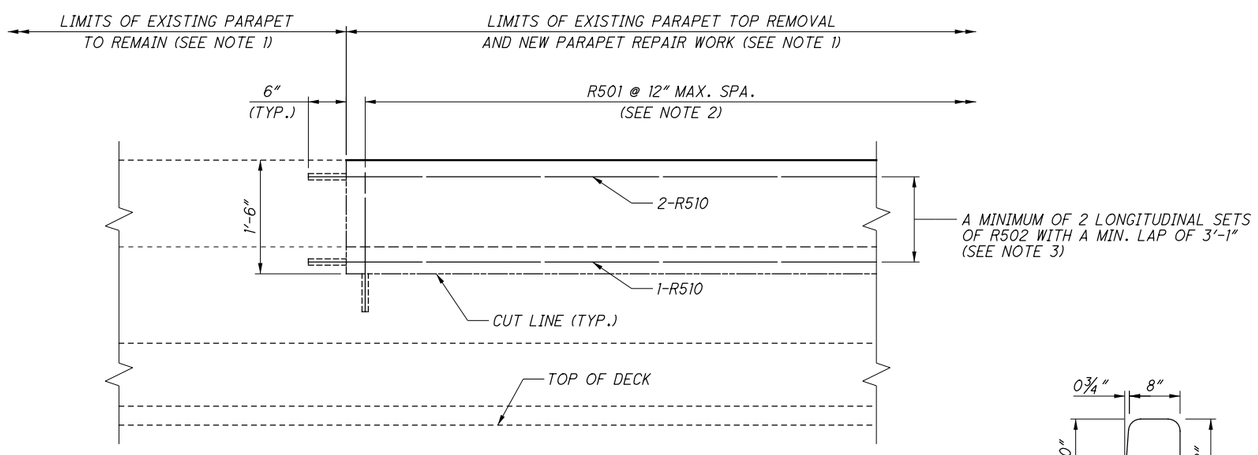
(LEFT BRIDGE SHOWN, RIGHT BRIDGE OPPOSITE HAND)



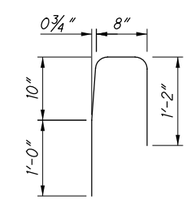
PARAPET REMOVAL DETAIL



PARAPET REPAIR DETAIL



SECTION A-A



R501 BAR BENDING DIAGRAM

- LIMITS OF REMOVAL PER CMS 202

NOTES:

1. LIMITS OF PARAPET REPAIR ARE TO BE DETERMINED IN THE FIELD AND MARKED OUT BY THE ENGINEER PRIOR TO ORDERING MATERIALS AND STARTING WORK.
2. VERTICAL BARS SHALL BE SPACED AT 12" MAX BETWEEN THE EXISTING PARAPET DEFLECTION JOINTS. JOINTS IN THE NEW PORTIONS OF THE PARAPETS SHALL MATCH THE EXISTING JOINTS.
3. THE LENGTH OF THE R510 DEPENDS ON THE LENGTHS OF PARAPET REPAIRS DETERMINED IN THE FIELD. A MINIMUM OF TWO BARS SHALL BE USED LONGITUDINALLY, AND LAPPED IN THE MIDDLE DUE TO THE NEED OF DOWELING INTO EXISTING CONCRETE AT BOTH ENDS.
4. EXISTING REINFORCING BARS IN THE PARAPET WILL NOT BE SALVAGED, AND WILL BE CUT AT THE SAW CUT LINES.

NO.	DATE	DESCRIPTION

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PARAPET REPAIR DETAILS
BRIDGE NO. MAD-70-1217L/R
OVER LITTLE DARBY CREEK

MAD-70-8.62
PID No. 107109

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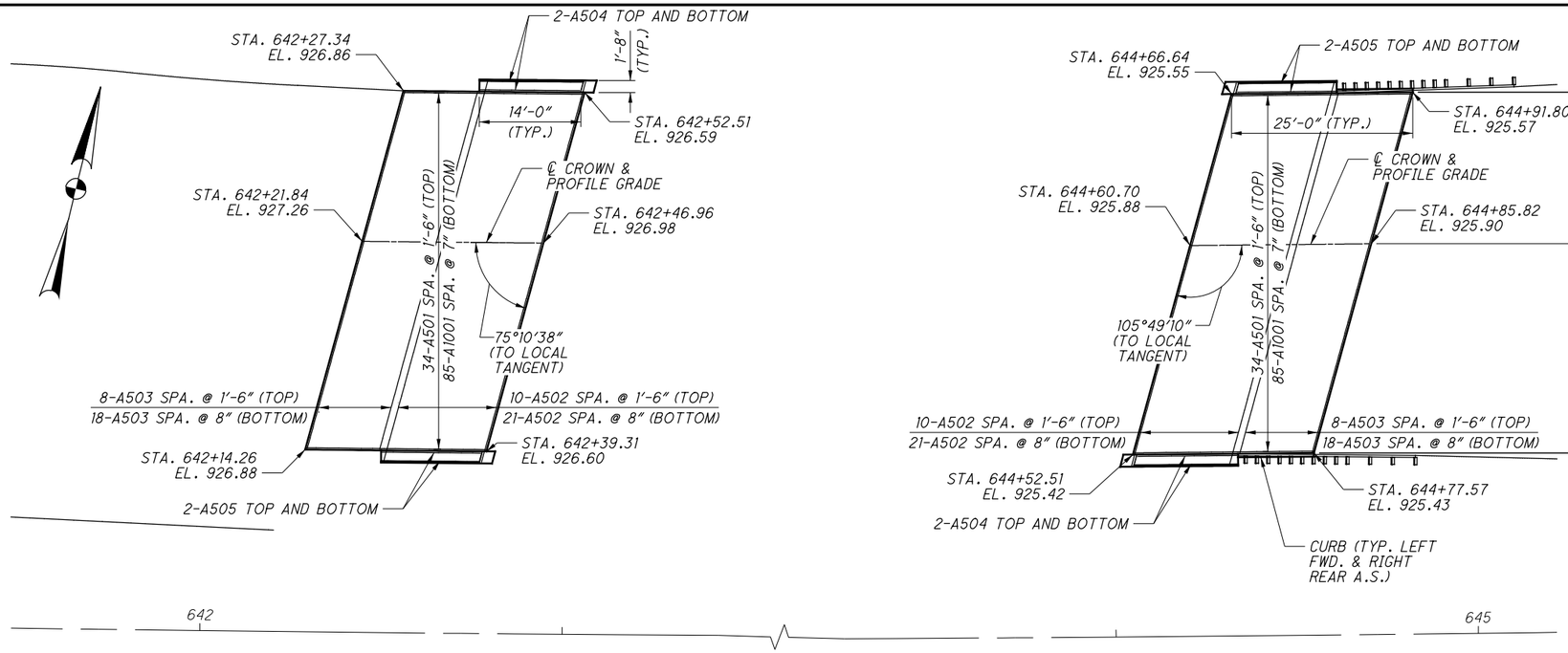
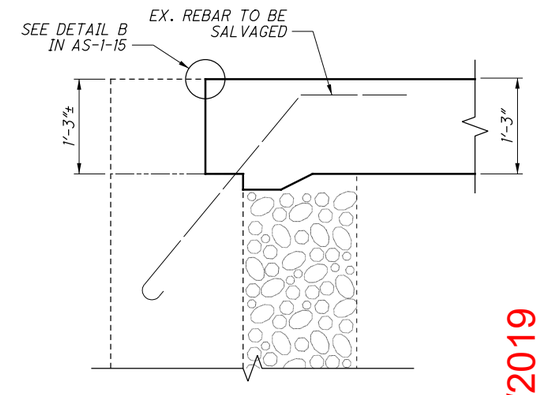
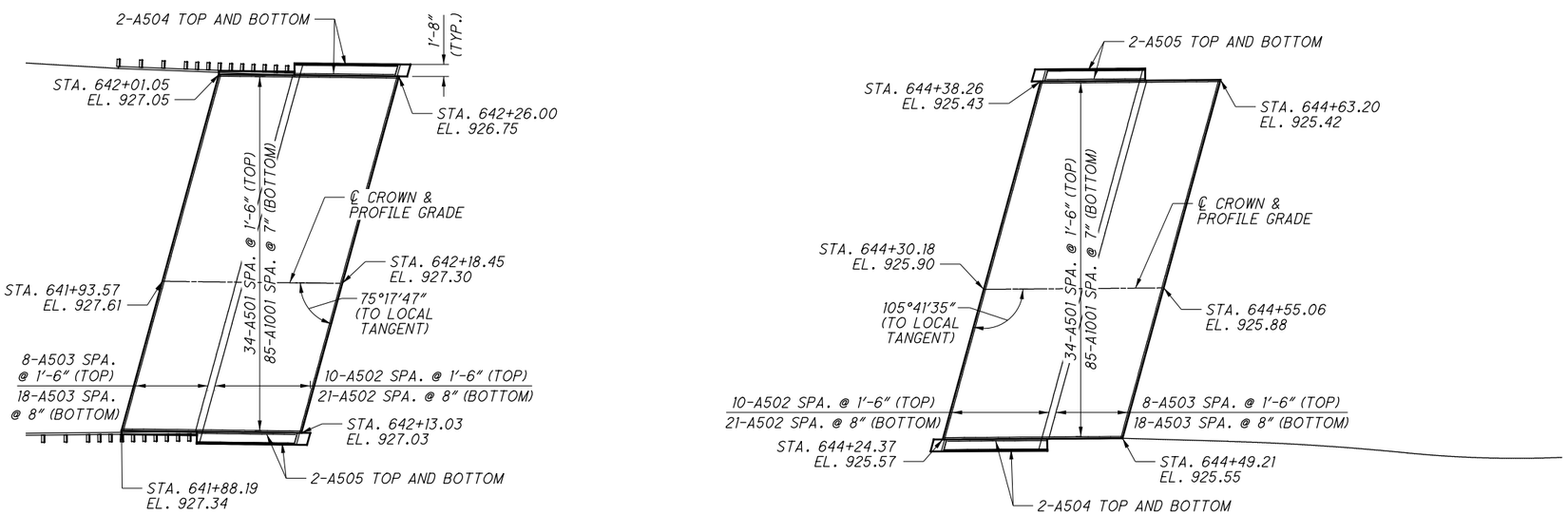




ABUTMENT SECTION



APPROACH SLAB PLAN

NOTES:

1. SEE SHEET 4/5 FOR PARAPET DETAILS.
2. FOR REINFORCING SCHEDULE, SEE SHEET 5/5.
3. APPROACH SLAB CROSS SLOPE SHALL MATCH THE EXISTING BRIDGE CROSS SLOPE, 3/16" PER FOOT.

NO.	DATE	DESCRIPTION

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JOL	---NA---	4902610/4902645	

APPROACH SLAB DETAILS
BRIDGE NO. MAD-70-1217L/R
OVER LITTLE DARBY CREEK

MAD-70-8.62
PID No. 107109

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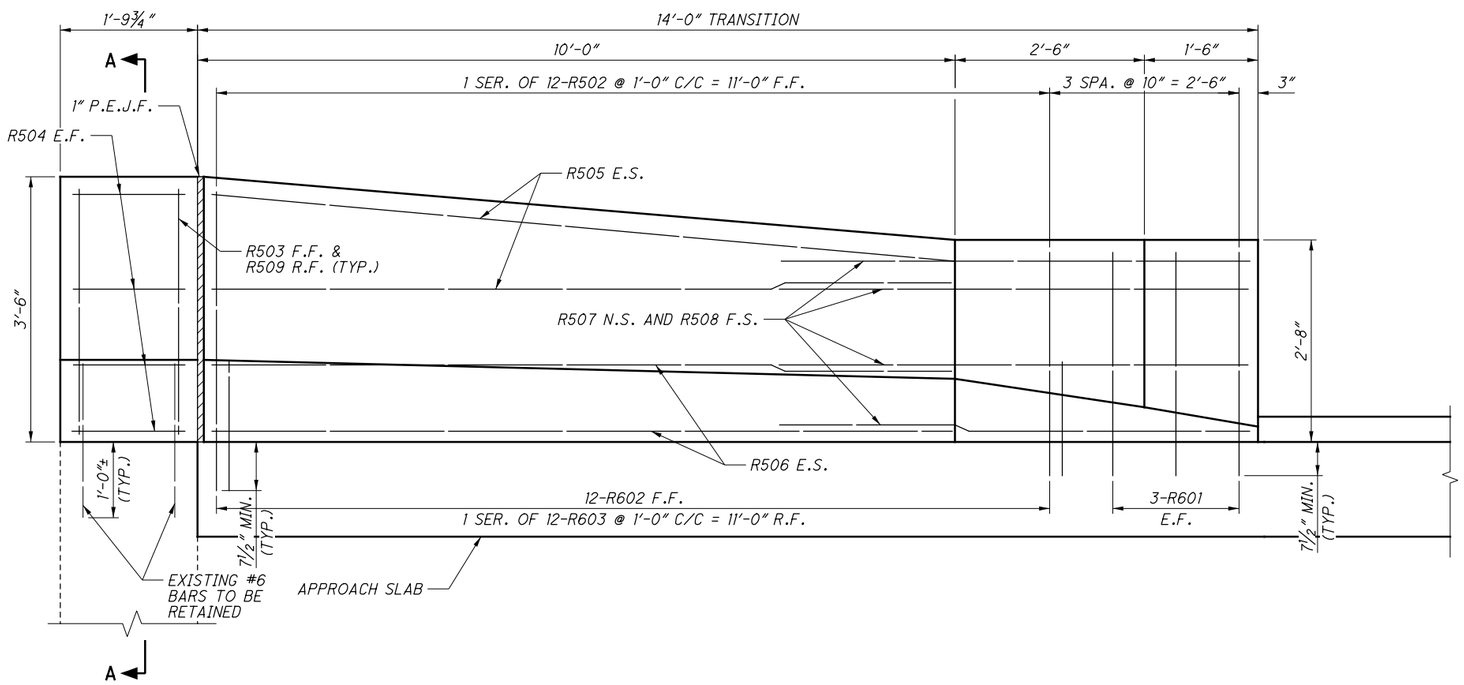
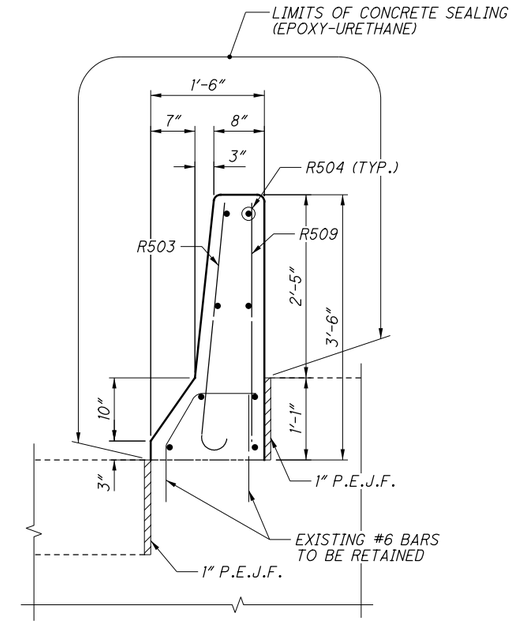


PARAPET TRANSITION ELEVATION



SECTION A-A

MINIMUM LAP LENGTHS	
NO. 5 BAR	2'-6"

NOTES:

1. FOR APPROACH SLAB DETAILS, SEE SHEET 3/5 AND ODOT STANDARD DRAWING AS-1-15.
2. FOR ADDITIONAL PARAPET TRANSITION DETAILS NOT SHOWN, SEE ODOT STANDARD DRAWING BR-1-13.
3. FOR REINFORCING SCHEDULES, SEE SHEET 5/5 .
4. SEAL THE ENTIRE PERIMITER OF THE 14'-0" PARAPET TRANSITION WITH EPOXY URETHANE SEALER.

NO.	DATE	DESCRIPTION

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DESIGN AGENCY
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PARAPET DETAILS - 2
BRIDGE NO. MAD-70-1217L/R
OVER LITTLE DARBY CREEK

MAD-70-8.62
PID No. 107109

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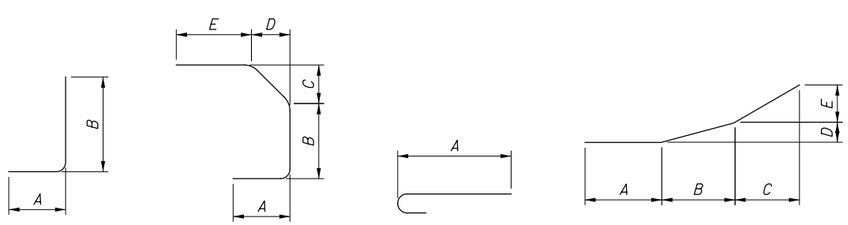
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
PARAPET											
R502	4 SR OF 12	2'-10" TO 3'-9"	165	16	2'-3" TO 3'-2"						1"
R503	8	3'-9"	31	16	3'-2"						
R504	32	1'-6"	50	STR							
R505	16	10'-0"	167	STR							
R506	16	9'-9"	163	STR							
R507	16	5'-9"	96	25	1'-10"	2'-5"	1'-5"	2"	5"		
R508	16	5'-8"	95	STR							
R509	8	3'-2"	26	STR							
R601	24	4'-0"	144	1	1'-0"	3'-2"					
R602	48	3'-1"	222	14	1'-0"	10"	9"	6"	7"		
R603	4 SR OF 12	4'-0" TO 4'-10"	318	1	1'-0"	3'-2" TO 4'-0"					0 7/8"
		SUBTOTAL	1,477	FOR INFORMATION ONLY							

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
APPROACH SLAB											
A501	136	24'-8"	3,499	STR							
A502	124	54'-6"	7,049	STR							
A503	104	51'-0"	5,532	STR							
A504	16	13'-8"	228	STR							
A505	16	13'-2"	220	STR							
A1001	340	24'-8"	36,088	STR							
		SUBTOTAL	52,616	FOR INFORMATION ONLY							



TYPE-1 TYPE-14 TYPE-16 TYPE-25

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, S601:
   S: LOCATION OF THE BAR WITHIN THE STRUCTURE
   6: BAR SIZE NUMBER (NO. 6 BAR)
   01: SEQUENCE NUMBER
2. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BAR BEND AT THE END OF A BAR. STRAIGHT BARS ARE INDICATED BY "STR". SERIES BARS ARE INDICATED BY "SR".
3. STANDARD BENDS SHALL BE PER CMS 509.05.
4. ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60 (MINIMUM YIELD STRENGTH OF 60 KSI).

NO.	DATE	DESCRIPTION

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REINFORCING LIST
BRIDGE NO. MAD-70-1217L/R
OVER LITTLE DARBY CREEK

DESIGNED	DRAWN	REVIEWED	DATE
LAH	LAH	DFT	12/5/2018
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JOL	XXX	4902610/4902645	

MAD-70-8.62
PID No. 107109

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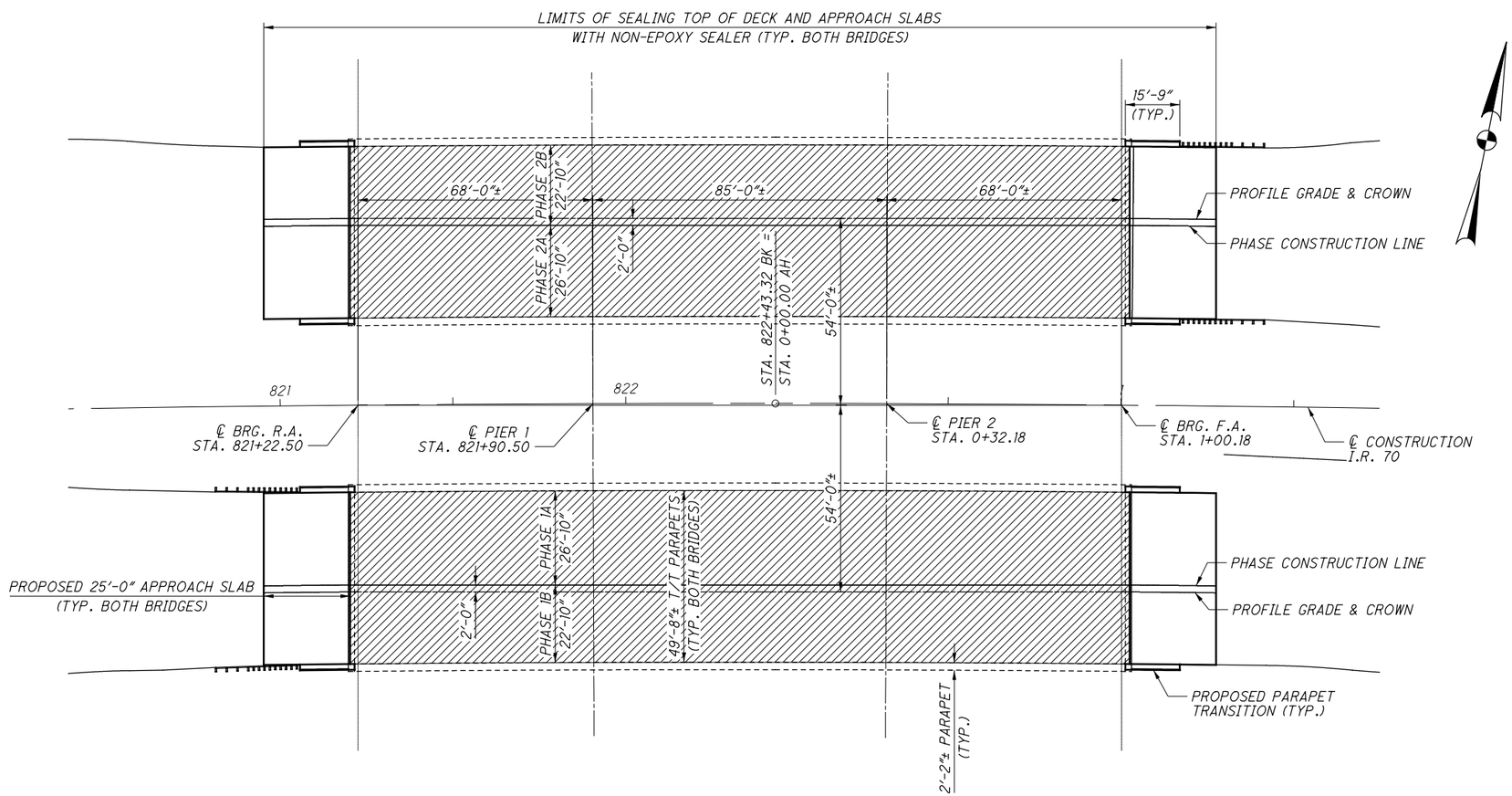

GENERAL PLAN

NOTES:

SEE MOT PLANS FOR MAINTENANCE OF TRAFFIC.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD DRAWINGS:

AS-1-15	REVISED 7-17-15
BR-1-13	REVISED 7-19-13

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800	REVISED 4-20-18
848	REVISED 1-20-17

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996 GRADE 60
MINIMUM YIELD STRENGTH 60,000 PSI

ITEM 509 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSEABLE BECAUSE OF CORROSION. THE DEPARMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSEABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

CURVE DATA

P.I. Sta. 5+80.60
Δ = 25° 05′ 38″ (RT)
Dc = 0° 28′ 00″
R = 12,277.67′
T = 2,732.46′
L = 5,377.29
E = 300.39′
C = 5,334.41′
C.B. = N 81° 23′ 17″ E
eMAX = NC (NDC = 0.019)

PROPOSED WORK:

(CONSTRUCTION SEQUENCE TO BE DETERMINED BY CONTRACTOR)

1. REMOVE EXISTING APPROACH SLABS AND EXISTING PARAPETS ON APPROACH SLAB AND INSTALL NEW APPROACH SLABS AND PARAPETS ON APPROACH SLAB.
2. REPAIR PORTIONS OF PARAPETS.
3. PERFORM REPAIRS AS NEEDED AND INSTALL NEW OVERLAY.
4. SEAL DECK AND PROPOSED APPROACH SLABS WITH NON-EPOXY SEALER.
5. SEAL ALL PARAPETS WITH EPOXY-URETHANE SEALER.
6. CLEAN DIRT AND DEBRIS FROM DECK, SCUPPERS, EXPANSION JOINTS, BACKWALLS, BEAM SEATS, AND BEARINGS. (SEE BRIDGE CLEANING GENERAL NOTES ON SHEET 458)

LEGEND:

= LIMITS OF SDC OVERLAY

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

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DESIGNED	DRAWN	REVIEWED	DATE
LAH	LAH	DFT	12/5/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JOL		4902858/4902882	

GENERAL PLAN
BRIDGE NO. MAD-70-1556L/R
OVER BIG DARBY CREEK

MAD-70-8.62
PID No. 107109

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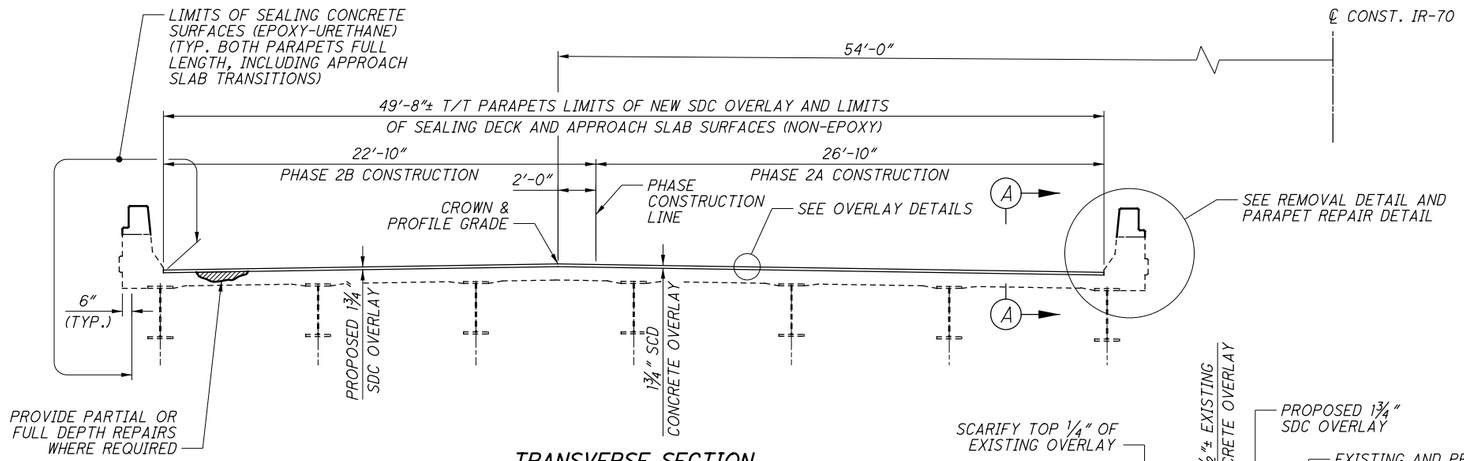
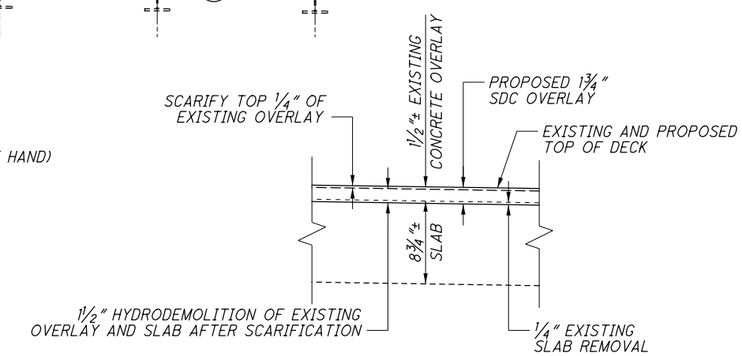
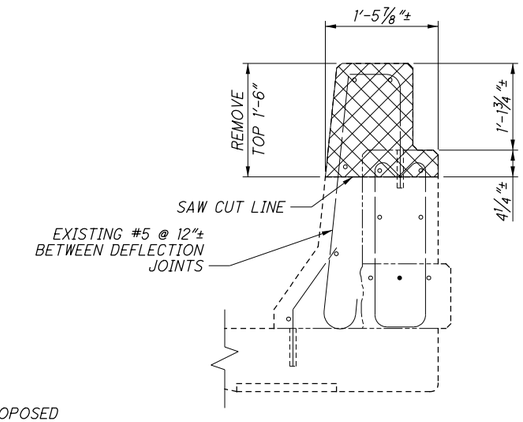


TRANSVERSE SECTION

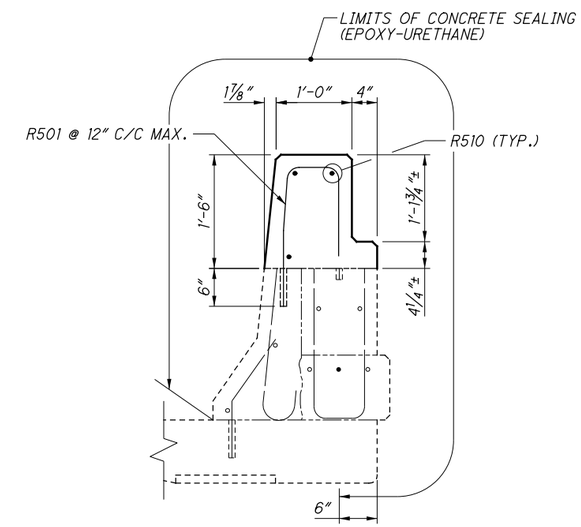
(LEFT BRIDGE SHOWN, RIGHT BRIDGE OPPOSITE HAND)



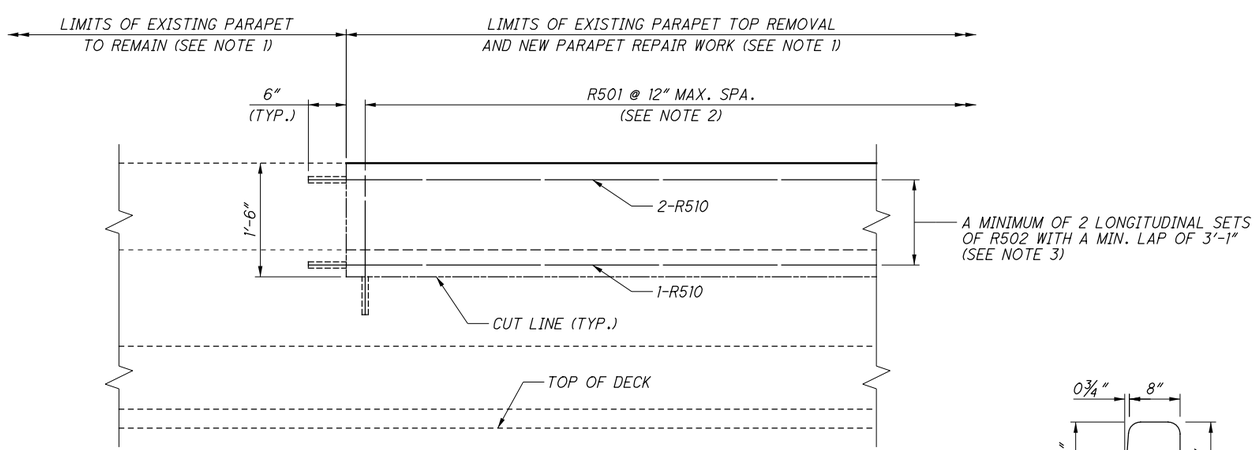
OVERLAY DETAILS



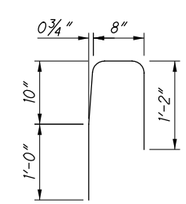
PARAPET REMOVAL DETAIL



PARAPET REPAIR DETAIL



SECTION A-A



R501 BAR BENDING DIAGRAM

- LIMITS OF REMOVAL PER CMS 202

NOTES:

1. LIMITS OF PARAPET REPAIR ARE TO BE DETERMINED IN THE FIELD AND MARKED OUT BY THE ENGINEER PRIOR TO ORDERING MATERIALS AND STARTING WORK.
2. VERTICAL BARS SHALL BE SPACED AT 12" MAX BETWEEN THE EXISTING PARAPET DEFLECTION JOINTS. JOINTS IN THE NEW PORTIONS OF THE PARAPETS SHALL MATCH THE EXISTING JOINTS.
3. THE LENGTH OF THE R510 DEPENDS ON THE LENGTHS OF PARAPET REPAIRS DETERMINED IN THE FIELD. A MINIMUM OF TWO BARS SHALL BE USED LONGITUDINALLY, AND LAPPED IN THE MIDDLE DUE TO THE NEED OF DOWELING INTO EXISTING CONCRETE AT BOTH ENDS.
4. EXISTING REINFORCING BARS IN THE PARAPET WILL NOT BE SALVAGED, AND WILL BE CUT AT THE SAW CUT LINES.

NO.	DATE	DESCRIPTION

ISSUE RECORD

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JOL		4902858/4902882	

PARAPET REPAIR DETAILS
BRIDGE NO. MAD-70-1556L/R
OVER BIG DARBY CREEK

MAD-70-8.62
PID No. 107109

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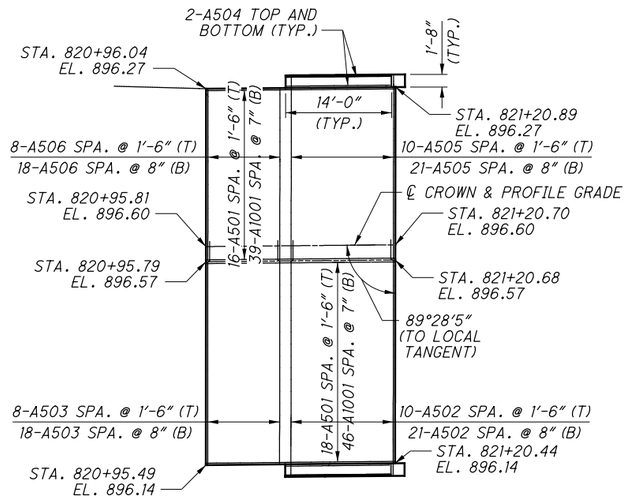
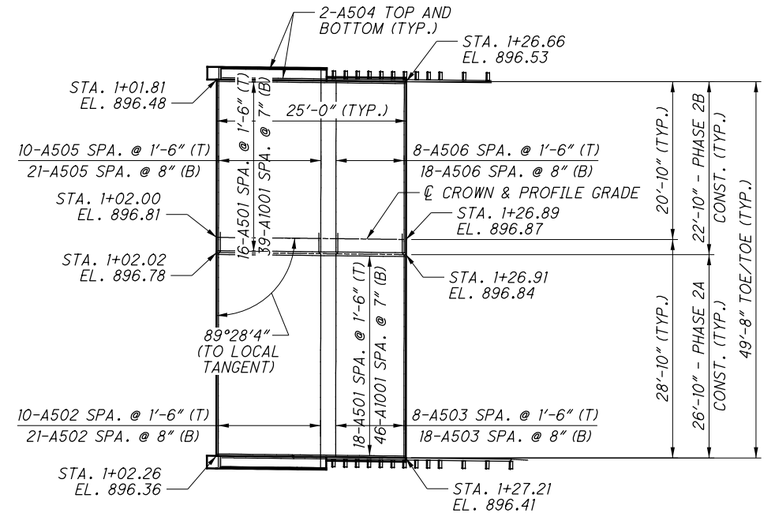
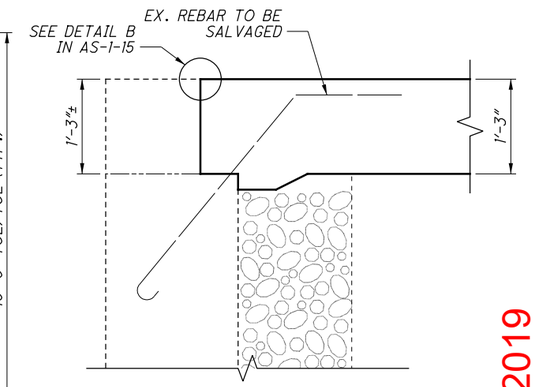
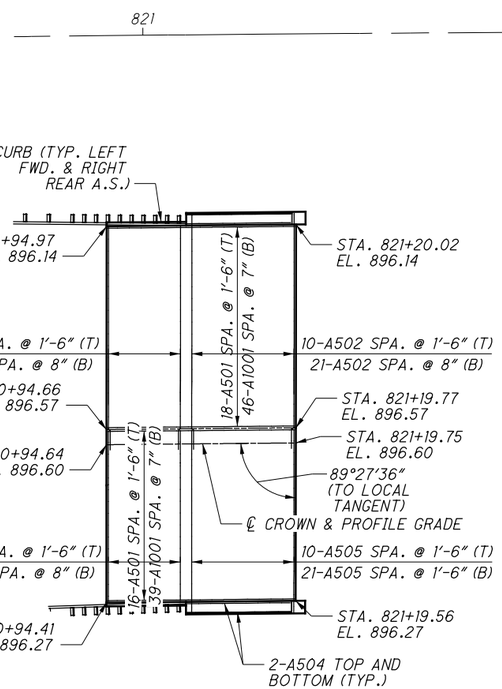
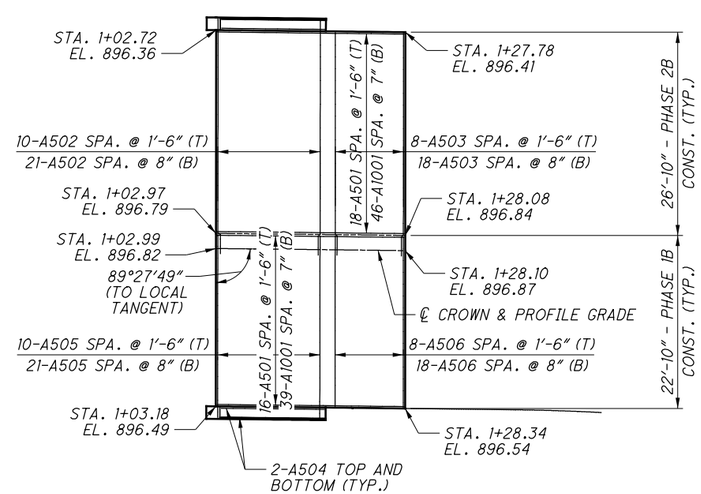






ABUTMENT SECTION





APPROACH SLAB PLAN

MINIMUM LAP LENGTH	
NO. 5 BAR	2'-6"

NOTES:

1. SEE SHEET 4/5 FOR PARAPET DETAILS.
2. FOR REINFORCING SCHEDULE, SEE SHEET 5/5.
3. APPROACH SLAB CROSS SLOPE SHALL MATCH THE EXISTING BRIDGE CROSS SLOPE, 3/16" PER FOOT.

NO.	DATE	DESCRIPTION

ISSUE RECORD

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APPROACH SLAB DETAILS
BRIDGE NO. MAD-70-1556L/R
OVER BIG DARBY CREEK

E.L. ROBINSON ENGINEERING
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DESIGNED	DRAWN	REVIEWED	DATE
LAH	LAH	DFT	12/5/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JOL		4902858/4902882	

MAD-70-8.62
PID No. 107109

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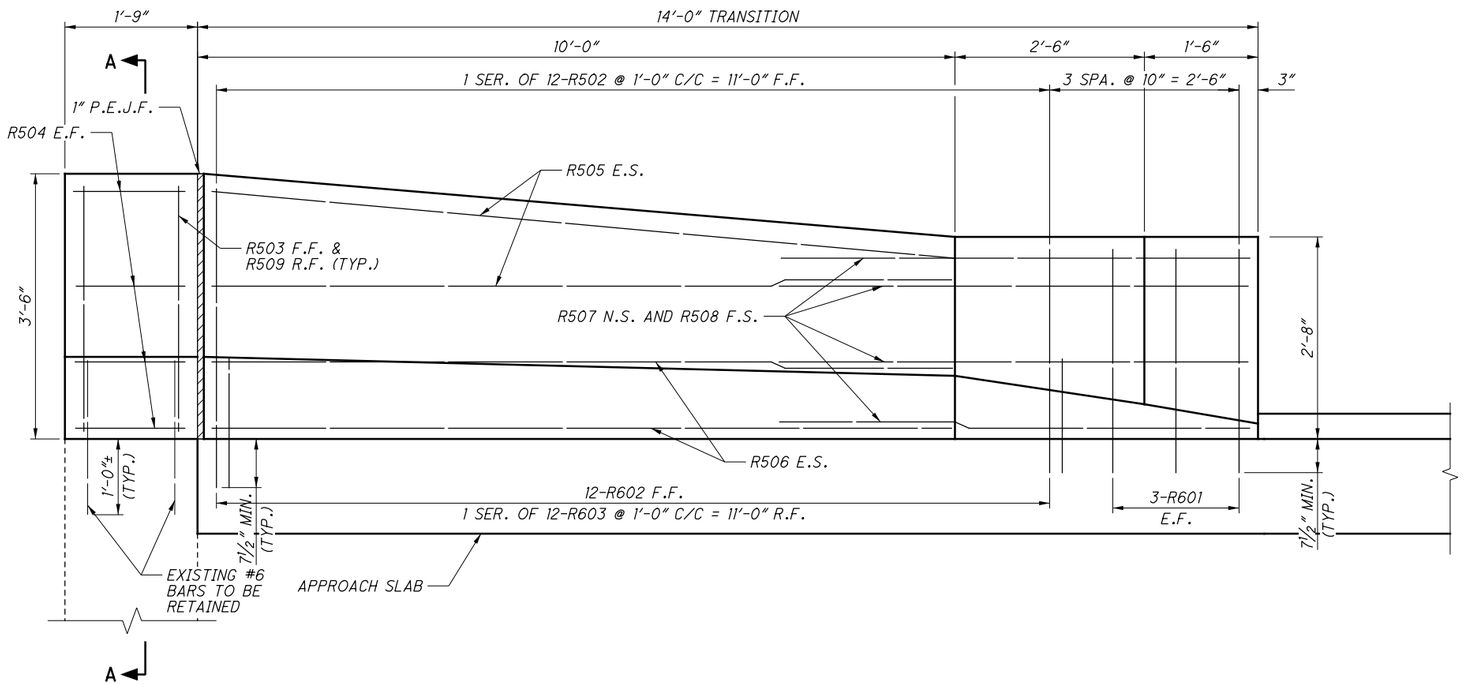
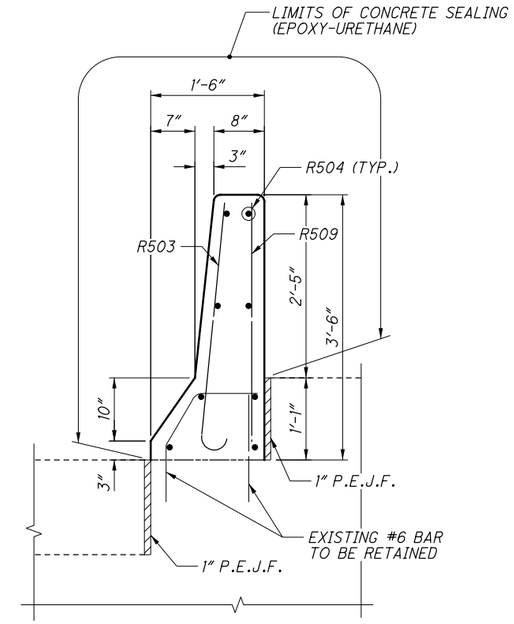


PARAPET TRANSITION ELEVATION



SECTION A-A

MINIMUM LAP LENGTHS	
NO. 5 BAR	2'-6"

NOTES:

1. FOR APPROACH SLAB DETAILS, SEE SHEET 3/5 AND ODOT STANDARD DRAWING AS-1-15.
2. FOR ADDITIONAL PARAPET TRANSITION DETAILS NOT SHOWN, SEE ODOT STANDARD DRAWING BR-1-13.
3. FOR REINFORCING SCHEDULES, SEE SHEET 5/5.
4. SEAL THE ENTIRE PERIMITER OF THE 14'-0" PARAPET TRANSITION WITH EPOXY URETHANE SEALER.

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

DESIGN AGENCY
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JOL		4902858/4902882	

PARAPET DETAILS - 2
BRIDGE NO. MAD-70-1556L/R
OVER BIG DARBY CREEK

MAD-70-8.62
PID No. 107109

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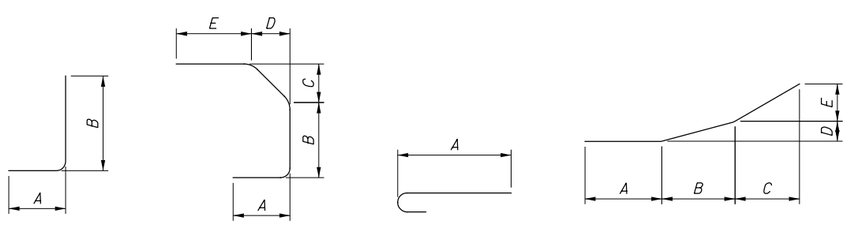
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
PARAPET											
R502	4 SR OF 12	2'-10" TO 3'-9"	165	16	2'-3" TO 3'-2"						1"
R503	8	3'-9"	31	16	3'-2"						
R504	32	1'-5"	47	STR							
R505	16	10'-0"	167	STR							
R506	16	9'-9"	163	STR							
R507	16	5'-9"	96	25	1'-10"	2'-5"	1'-5"	2"	5"		
R508	16	5'-8"	95	STR							
R509	8	3'-2"	26	STR							
R601	24	4'-0"	144	1	1'-0"	3'-2"					
R602	48	3'-1"	222	14	1'-0"	10"	9"	6"	7"		
R603	4 SR OF 12	4'-0" TO 4'-10"	318	1	1'-0"	3'-2" TO 4'-0"					0 7/8"
		SUBTOTAL	1,474	FOR INFORMATION ONLY							

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
APPROACH SLAB											
A501	136	24'-8"	3,499	STR							
A502	124	30'-10"	3,988	STR							
A503	104	29'-2"	3,164	STR							
A504	32	13'-8"	456	STR							
A505	124	24'-2"	3,126	STR							
A506	104	22'-6"	2,441	STR							
A1001	340	24'-8"	36,088	STR							
		SUBTOTAL	52,762	FOR INFORMATION ONLY							



TYPE-1 TYPE-14 TYPE-16 TYPE-25

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, S601:
   - S: LOCATION OF THE BAR WITHIN THE STRUCTURE
   - 6: BAR SIZE NUMBER (NO. 6 BAR)
   - 01: SEQUENCE NUMBER
2. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BAR BEND AT THE END OF A BAR. STRAIGHT BARS ARE INDICATED BY "STR". SERIES BARS ARE INDICATED BY "SR".
3. STANDARD BENDS SHALL BE PER CMS 509.05.
4. ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60 (MINIMUM YIELD STRENGTH OF 60 KSI).

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

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CHECKED	REVISED	STRUCTURE FILE NUMBER	
JOL	XXX	4902858/4902882	

REINFORCING LIST
BRIDGE NO. MAD-70-1556L/R
OVER BIG DARBY CREEK

MAD-70-8.62
PID No. 107109

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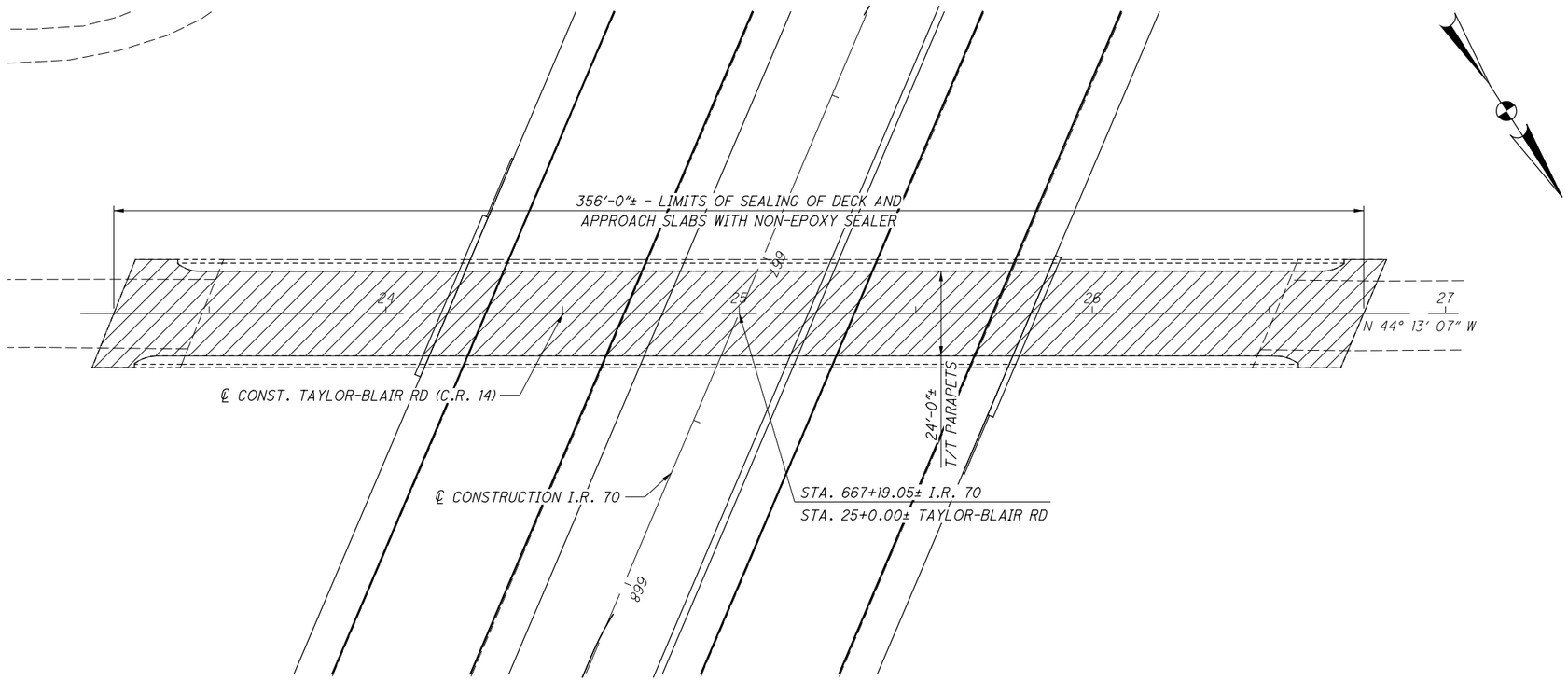
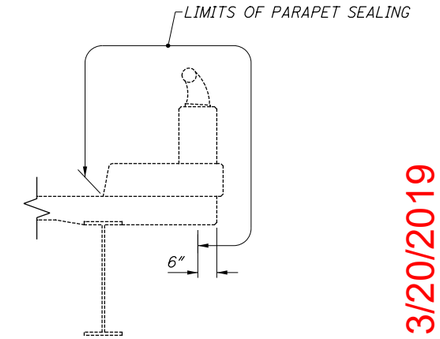


GENERAL PLAN



PARAPET SECTION

NOTES:

SEE MOT PLANS FOR MAINTENANCE OF TRAFFIC.

PROPOSED WORK:

(CONSTRUCTION SEQUENCE TO BE DETERMINED BY CONTRACTOR)

1. CLEAR AND GRUB VEGETATION FROM THE IMMEDIATE ABUTMENT AREAS. LIMITS SHALL BE FROM 25FT AWAY FROM THE ABUTMENT BACKWALL MEASURED AWAY FROM THE STRUCTURE, TRANSVERSELY DOWN THE SIDE SLOPE TO THE BASE; FROM THE FRONT FACE OF THE ABUTMENT TO THE BOTTOM OF THE SLOPE.
2. SEAL PARAPETS WITH EPOXY-URETHANE SEALER
3. SEAL DECK AND APPROACH SLABS WITH NON-EPOXY SEALER
4. CLEAN DIRT AND DEBRIS FROM DECK, APPROACH SLABS, SCUPPERS, EXPANSION JOINTS, BACKWALLS, BEAM SEATS, AND BEARINGS (SEE BRIDGE CLEANING GENERAL NOTES ON SHEET 458)

LEGEND:

= LIMITS OF NON-EPOXY SEALER

NO.	DATE	DESCRIPTION

ISSUE RECORD

APPROVED FOR CONSTRUCTION - 3/20/2019

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LAH	LAH	DFT	12/5/2018
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JOL	XXX	4902734	

GENERAL PLAN
BRIDGE NO. MAD-70-1263
TAYLOR-BLAIR ROAD OVER I.R. 70

MAD-70-8.62
PID No. 107109

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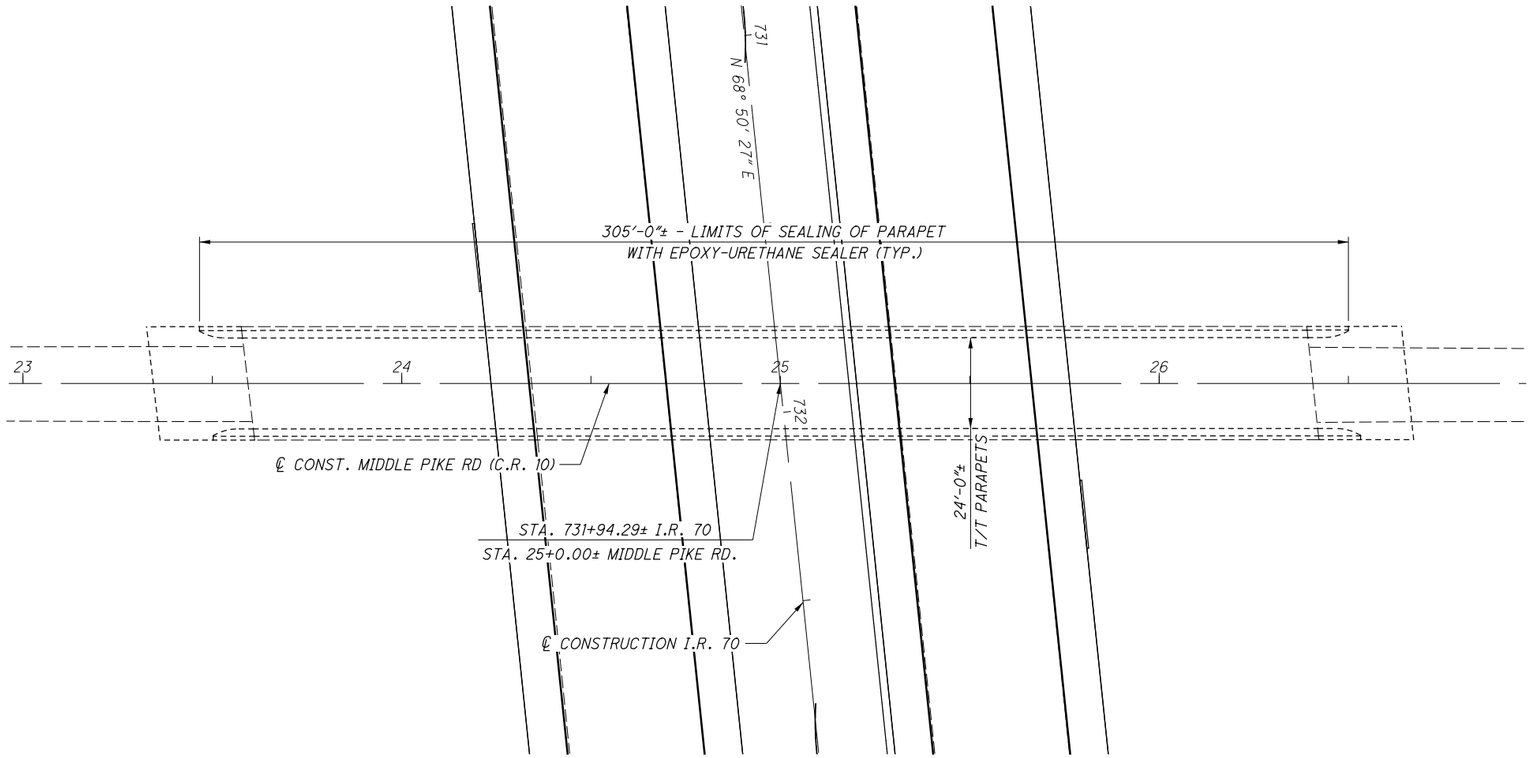
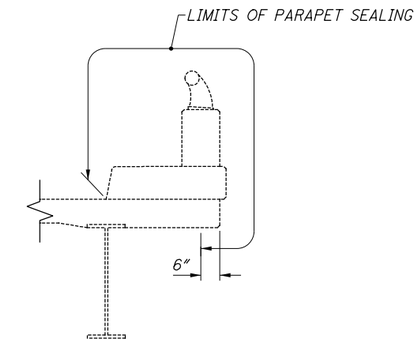


GENERAL PLAN



PARAPET SECTION

NOTES:

SEE MOT PLANS FOR MAINTENANCE OF TRAFFIC.

PROPOSED WORK:

(CONSTRUCTION SEQUENCE TO BE DETERMINED BY CONTRACTOR)

1. CLEAR AND GRUB VEGETATION FROM THE IMMEDIATE ABUTMENT AREAS. LIMITS SHALL BE FROM 25FT AWAY FROM THE ABUTMENT BACKWALL MEASURED AWAY FROM THE STRUCTURE, TRANSVERSELY DOWN THE SIDE SLOPE TO THE BASE; FROM THE FRONT FACE OF THE ABUTMENT TO THE BOTTOM OF THE SLOPE.
2. SEAL PARAPETS WITH EPOXY-URETHANE SEALER
3. CLEAN DIRT AND DEBRIS FROM DECK, APPROACH SLABS, SCUPPERS, EXPANSION JOINTS, BACKWALLS, BEAM SEATS, AND BEARINGS (SEE BRIDGE CLEANING GENERAL NOTES ON SHEET 458
4. DO NOT DISTURB EXISTING CHIP SEAL SURFACE.

NO.	DATE	DESCRIPTION

ISSUE RECORD

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JOL	XXX	4902769	

GENERAL PLAN
BRIDGE NO. MAD-70-1386
MIDDLE PIKE ROAD OVER I.R. 70

MAD-70-8.62
PID No. 107109

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