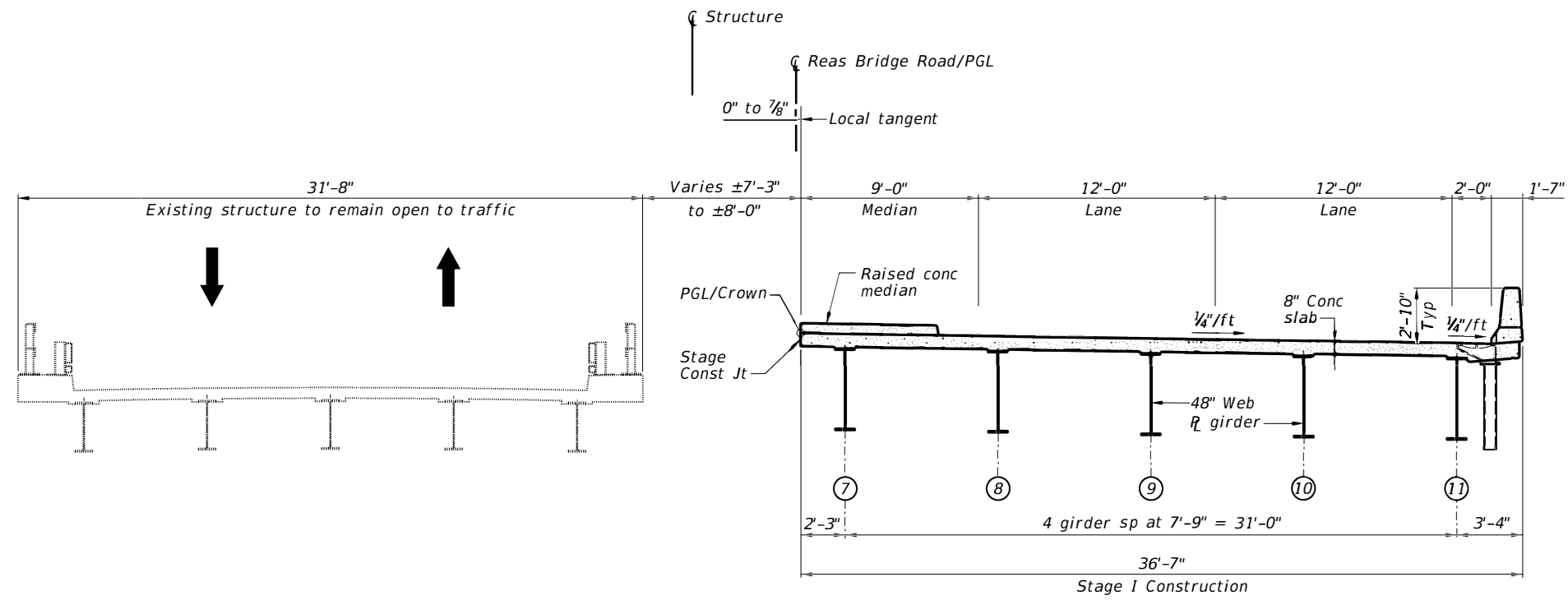
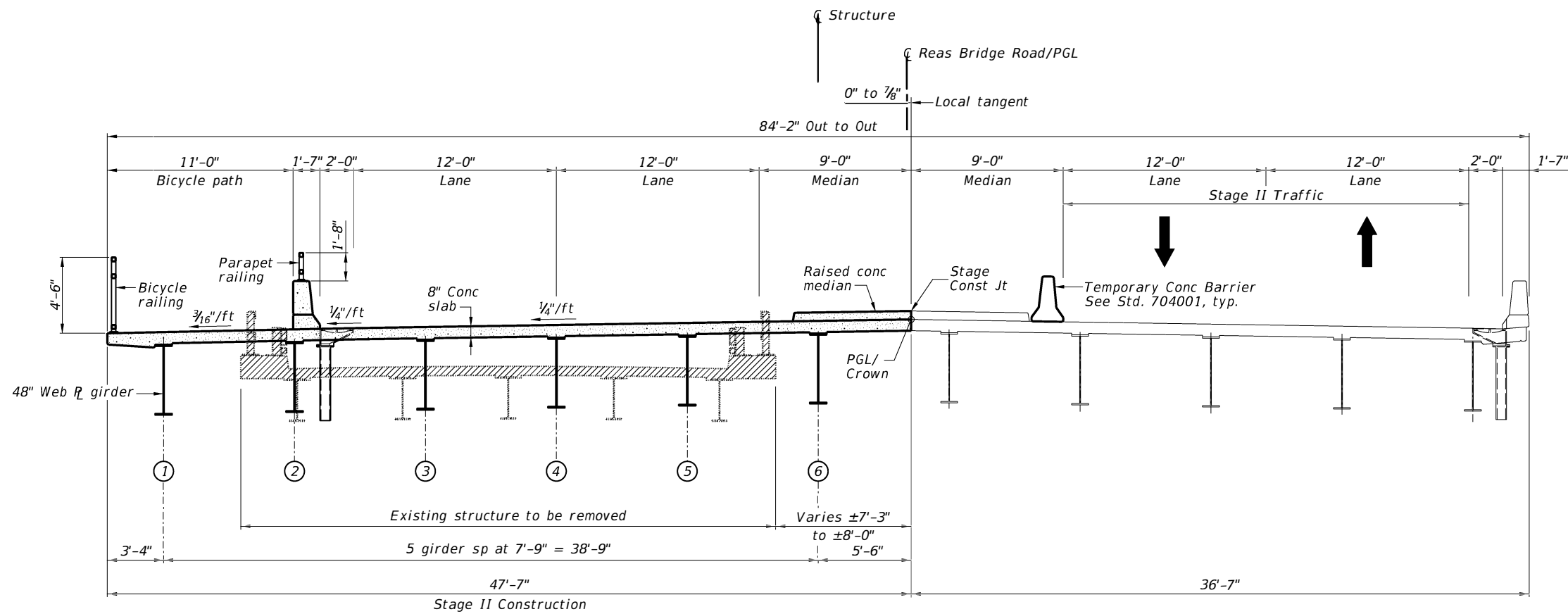


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**STAGE I CONSTRUCTION**  
Looking West



**STAGE II CONSTRUCTION**  
Looking West

USER NAME = jbuening	DESIGNED JMB	REVISED -
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PLOT SCALE = 8# 1' / in.	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

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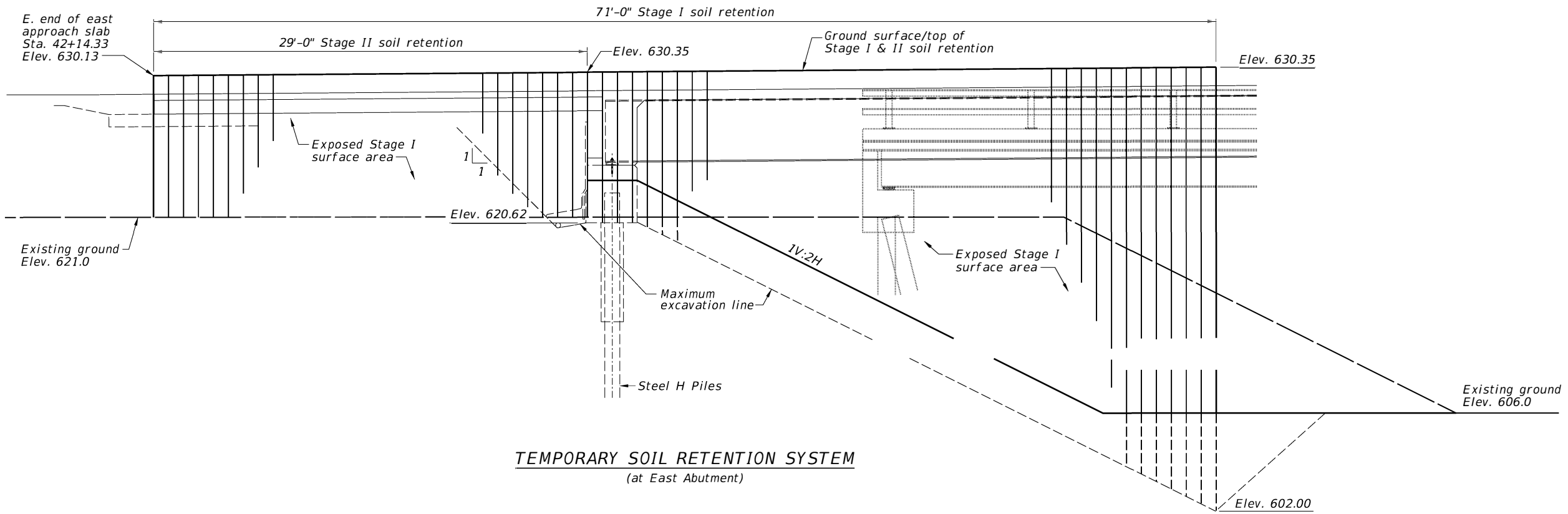
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 058-3408**

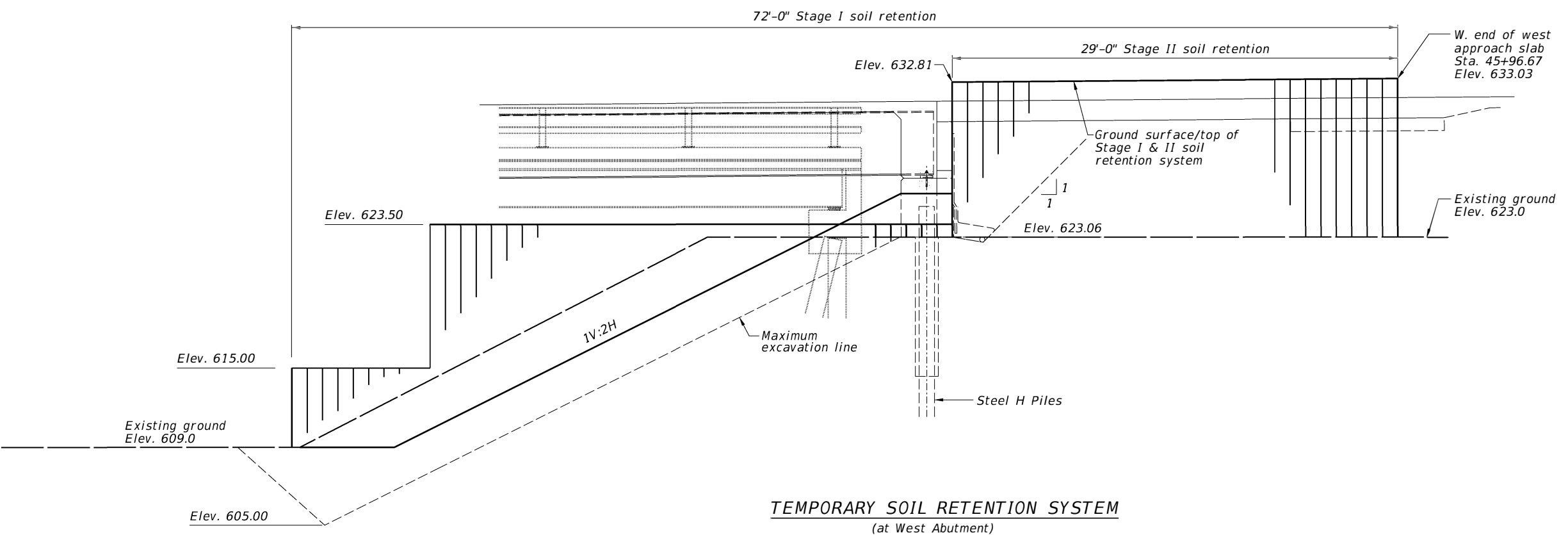
SHEET NO. 4 OF 40 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	101
<b>CONTRACT NO. 95912</b>				

ILLINOIS FED. AID PROJECT



**TEMPORARY SOIL RETENTION SYSTEM**  
(at East Abutment)



**TEMPORARY SOIL RETENTION SYSTEM**  
(at West Abutment)

FILE NAME = I:\Municipalities\Macon County\6407 Rees Bridge Road Bridge Replacement\CADD\Structural\WestBridge\TempSheet.dgn

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PLOT SCALE = 8:0 "/td> <td>CHECKED <i>BCG</i></td> <td>REVISED -</td>	CHECKED <i>BCG</i>	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

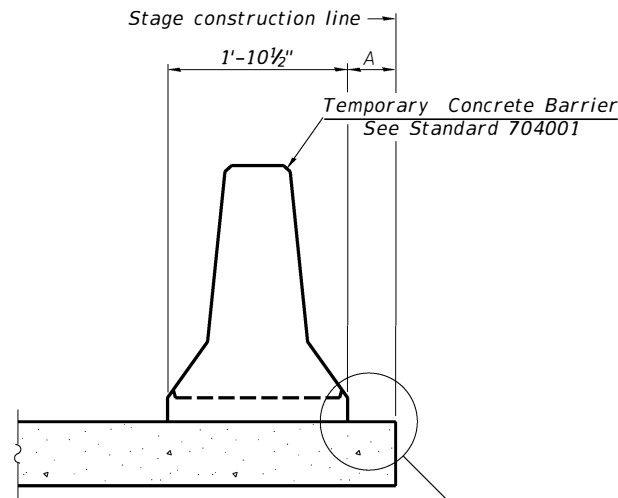
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**TEMPORARY SOIL RETENTION SYSTEM**  
**STRUCTURE NO. 058-3408**

SHEET NO. 5 OF 40 SHEETS

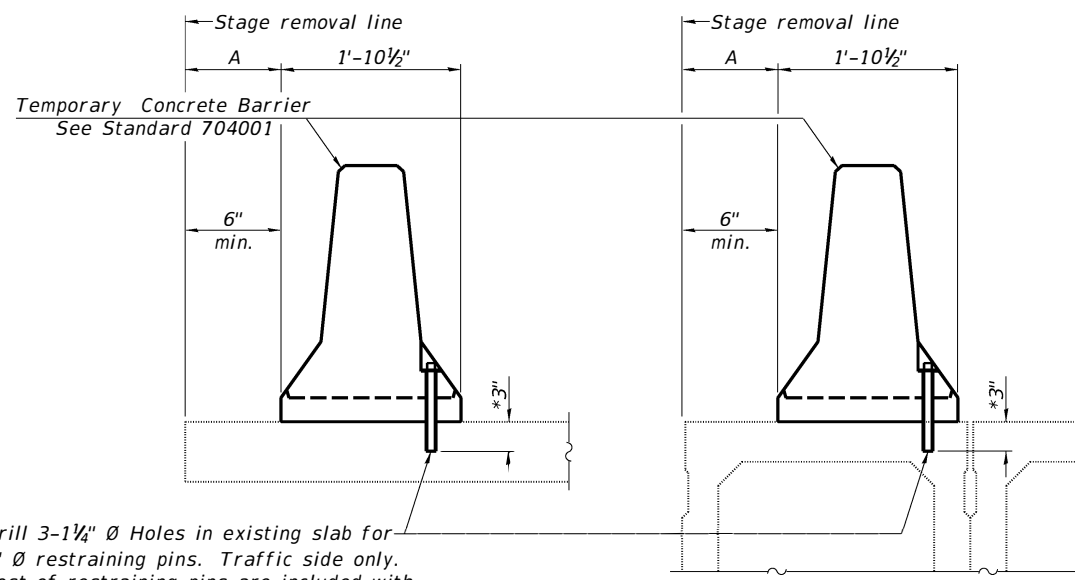
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	102
<b>CONTRACT NO. 95912</b>				

ILLINOIS FED. AID PROJECT



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

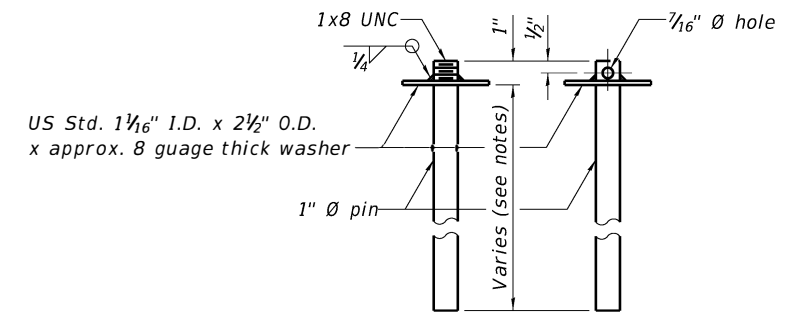


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

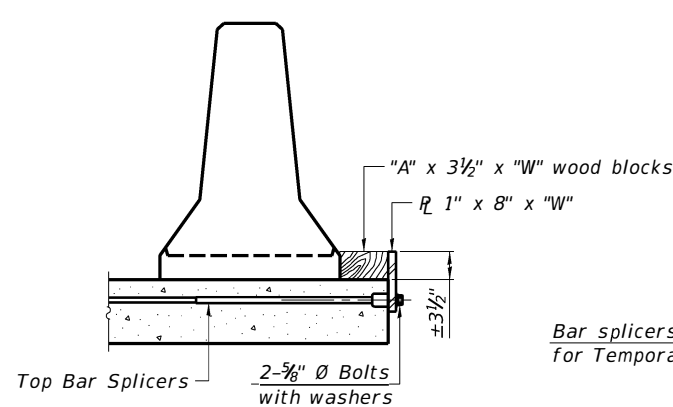
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

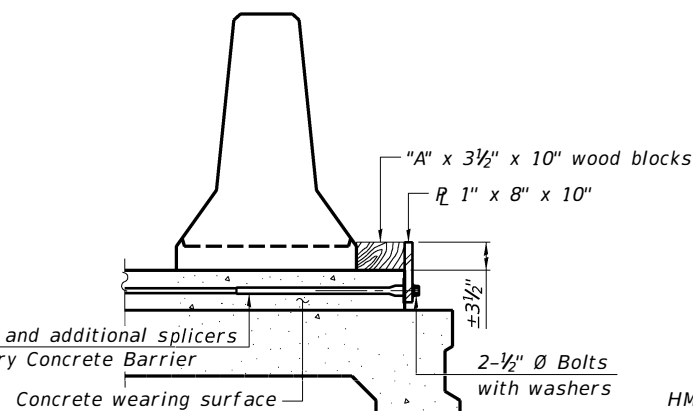


RESTRAINING PIN

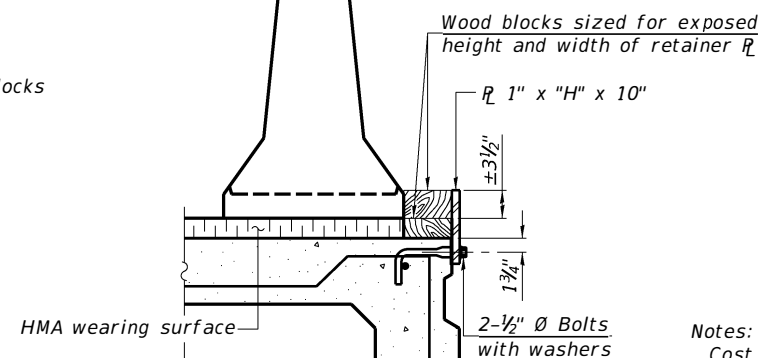
SECTIONS THRU SLAB OR DECK BEAM



DETAIL I

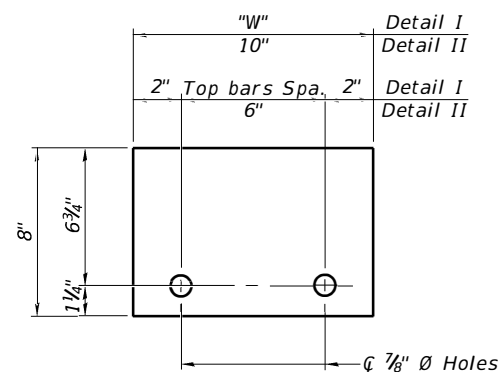


DETAIL II

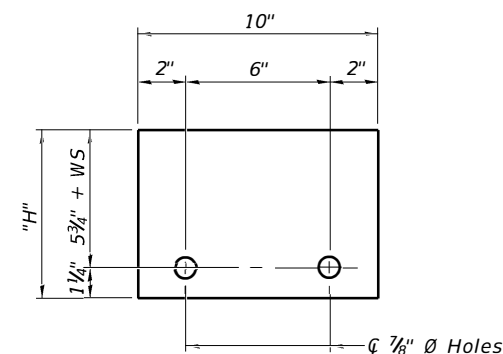


DETAIL III

BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"  
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"  
(Detail III)

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate ~ of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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R-27 2-17-2017

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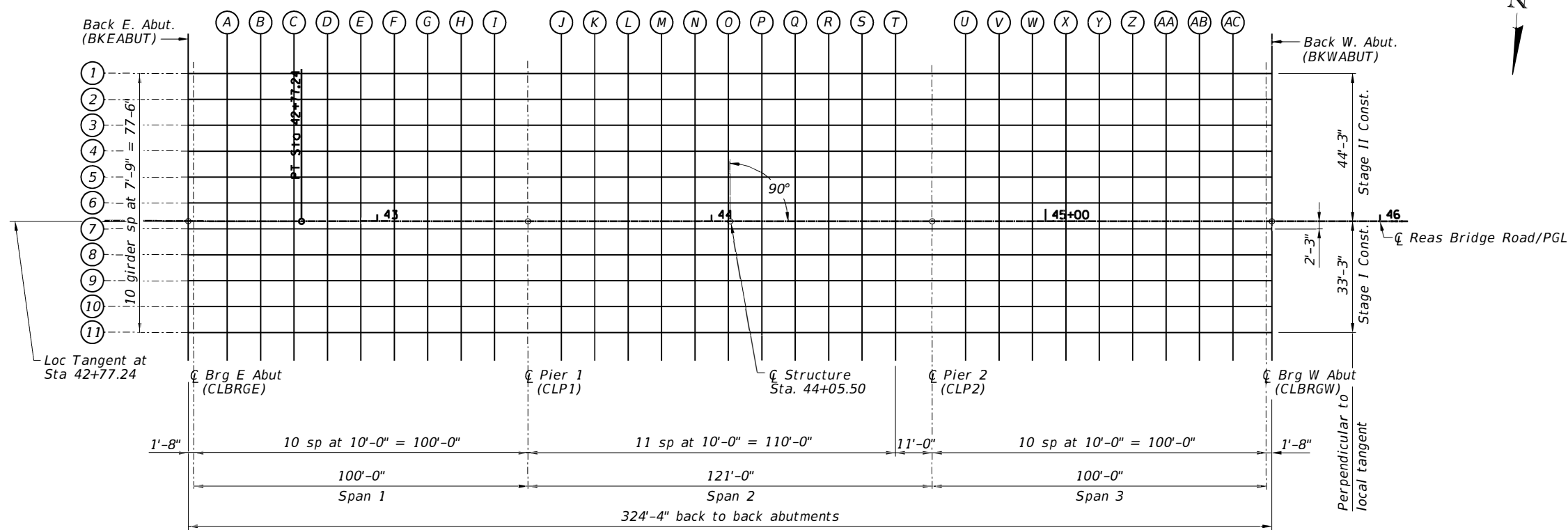
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION**  
**STRUCTURE NO. 058-3408**

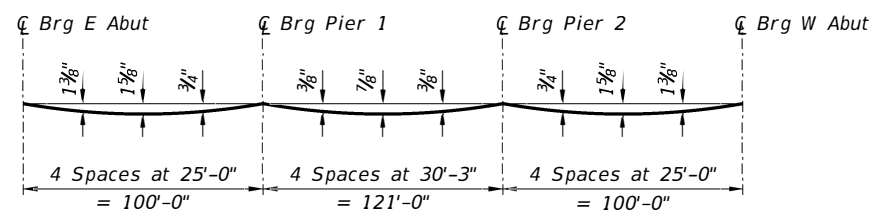
SHEET NO. 6 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	103
CONTRACT NO. 95912				

ILLINOIS FED. AID PROJECT

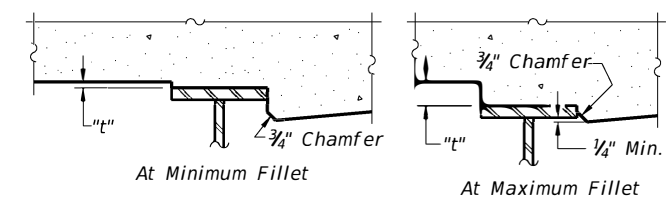


**DECK ELEVATION LAYOUT**



**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)  
 Note:  
 The above deflections are not to be used in the field if the ENGINEER is working from the grade elevations adjusted for dead load deflections as shown in the tables on Sheets 8 thru 11 of 40.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 8 thru 11 of 40, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**

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PLOT SCALE = 40.0000 "/ in.	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
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 ROCKFORD (815) 489-0050  
 184-001397

**TOP OF DECK ELEVATIONS**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 7 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	104
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				



FILE NAME = I:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\WestBridge\deckel.dgn

**GIRDER 1**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.12	-44.17	629.47	629.47
CLBRGE	42+44.80	-44.18	629.49	629.49
A	42+54.86	-44.22	629.56	629.62
B	42+64.92	-44.24	629.64	629.74
C	42+74.99	-44.25	629.72	629.84
D	42+85.00	-44.25	629.79	629.93
E	42+95.00	-44.25	629.87	630.00
F	43+05.00	-44.25	629.94	630.05
G	43+15.00	-44.25	630.02	630.10
H	43+25.00	-44.25	630.10	630.14
I	43+35.00	-44.25	630.17	630.19
CLP1	43+45.00	-44.25	630.25	630.25
J	43+55.00	-44.25	630.32	630.33
K	43+65.00	-44.25	630.40	630.41
L	43+75.00	-44.25	630.48	630.51
M	43+85.00	-44.25	630.55	630.60
N	43+95.00	-44.25	630.63	630.70
O	44+05.00	-44.25	630.70	630.78
P	44+15.00	-44.25	630.78	630.85
Q	44+25.00	-44.25	630.86	630.91
R	44+35.00	-44.25	630.93	630.97
S	44+45.00	-44.25	631.01	631.02
T	44+55.00	-44.25	631.08	631.09
CLP2	44+66.00	-44.25	631.17	631.17
U	44+76.00	-44.25	631.24	631.26
V	44+86.00	-44.25	631.32	631.36
W	44+96.00	-44.25	631.40	631.47
X	45+06.00	-44.25	631.47	631.58
Y	45+16.00	-44.25	631.55	631.68
Z	45+26.00	-44.25	631.62	631.76
AA	45+36.00	-44.25	631.70	631.83
AB	45+46.00	-44.25	631.78	631.87
AC	45+56.00	-44.25	631.85	631.90
CLBRGW	45+66.00	-44.25	631.93	631.93
BKWABUT	45+67.67	-44.25	631.94	631.94

**GIRDER 2**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.16	-36.42	629.60	629.60
CLBRGE	42+44.84	-36.43	629.61	629.61
A	42+54.89	-36.47	629.68	629.74
B	42+64.94	-36.49	629.76	629.86
C	42+74.99	-36.50	629.84	629.96
D	42+85.00	-36.50	629.91	630.05
E	42+95.00	-36.50	629.99	630.12
F	43+05.00	-36.50	630.07	630.17
G	43+15.00	-36.50	630.14	630.22
H	43+25.00	-36.50	630.22	630.26
I	43+35.00	-36.50	630.29	630.31
CLP1	43+45.00	-36.50	630.37	630.37
J	43+55.00	-36.50	630.45	630.45
K	43+65.00	-36.50	630.52	630.54
L	43+75.00	-36.50	630.60	630.63
M	43+85.00	-36.50	630.67	630.72
N	43+95.00	-36.50	630.75	630.82
O	44+05.00	-36.50	630.83	630.90
P	44+15.00	-36.50	630.90	630.97
Q	44+25.00	-36.50	630.98	631.03
R	44+35.00	-36.50	631.05	631.09
S	44+45.00	-36.50	631.13	631.15
T	44+55.00	-36.50	631.21	631.21
CLP2	44+66.00	-36.50	631.29	631.29
U	44+76.00	-36.50	631.36	631.38
V	44+86.00	-36.50	631.44	631.49
W	44+96.00	-36.50	631.52	631.59
X	45+06.00	-36.50	631.59	631.70
Y	45+16.00	-36.50	631.67	631.80
Z	45+26.00	-36.50	631.74	631.88
AA	45+36.00	-36.50	631.82	631.95
AB	45+46.00	-36.50	631.90	631.99
AC	45+56.00	-36.50	631.97	632.03
CLBRGW	45+66.00	-36.50	632.05	632.05
BKWABUT	45+67.67	-36.50	632.06	632.06

**GIRDER 3**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.20	-28.67	629.75	629.75
CLBRGE	42+44.87	-28.68	629.76	629.76
A	42+54.91	-28.72	629.84	629.89
B	42+64.95	-28.74	629.91	630.01
C	42+74.99	-28.75	629.99	630.12
D	42+85.00	-28.75	630.07	630.21
E	42+95.00	-28.75	630.14	630.27
F	43+05.00	-28.75	630.22	630.33
G	43+15.00	-28.75	630.30	630.37
H	43+25.00	-28.75	630.37	630.42
I	43+35.00	-28.75	630.45	630.46
CLP1	43+45.00	-28.75	630.52	630.52
J	43+55.00	-28.75	630.60	630.60
K	43+65.00	-28.75	630.68	630.69
L	43+75.00	-28.75	630.75	630.78
M	43+85.00	-28.75	630.83	630.88
N	43+95.00	-28.75	630.90	630.97
O	44+05.00	-28.75	630.98	631.05
P	44+15.00	-28.75	631.06	631.12
Q	44+25.00	-28.75	631.13	631.18
R	44+35.00	-28.75	631.21	631.24
S	44+45.00	-28.75	631.28	631.30
T	44+55.00	-28.75	631.36	631.36
CLP2	44+66.00	-28.75	631.44	631.44
U	44+76.00	-28.75	631.52	631.54
V	44+86.00	-28.75	631.59	631.64
W	44+96.00	-28.75	631.67	631.75
X	45+06.00	-28.75	631.75	631.86
Y	45+16.00	-28.75	631.82	631.95
Z	45+26.00	-28.75	631.90	632.04
AA	45+36.00	-28.75	631.97	632.10
AB	45+46.00	-28.75	632.05	632.15
AC	45+56.00	-28.75	632.13	632.18
CLBRGW	45+66.00	-28.75	632.20	632.20
BKWABUT	45+67.67	-28.75	632.22	632.22

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184-001397

**TOP OF DECK ELEVATIONS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 8 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	105
<b>CONTRACT NO. 95912</b>				
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**GIRDER 4**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.23	-20.92	629.91	629.91
CLBRGE	42+44.91	-20.93	629.92	629.92
A	42+54.94	-20.97	630.00	630.05
B	42+64.96	-20.99	630.08	630.17
C	42+74.99	-21.00	630.15	630.28
D	42+85.00	-21.00	630.23	630.37
E	42+95.00	-21.00	630.30	630.44
F	43+05.00	-21.00	630.38	630.49
G	43+15.00	-21.00	630.46	630.53
H	43+25.00	-21.00	630.53	630.58
I	43+35.00	-21.00	630.61	630.62
CLP1	43+45.00	-21.00	630.68	630.68
J	43+55.00	-21.00	630.76	630.76
K	43+65.00	-21.00	630.84	630.85
L	43+75.00	-21.00	630.91	630.95
M	43+85.00	-21.00	630.99	631.04
N	43+95.00	-21.00	631.06	631.13
O	44+05.00	-21.00	631.14	631.21
P	44+15.00	-21.00	631.22	631.28
Q	44+25.00	-21.00	631.29	631.35
R	44+35.00	-21.00	631.37	631.40
S	44+45.00	-21.00	631.44	631.46
T	44+55.00	-21.00	631.52	631.52
CLP2	44+66.00	-21.00	631.60	631.60
U	44+76.00	-21.00	631.68	631.70
V	44+86.00	-21.00	631.76	631.80
W	44+96.00	-21.00	631.83	631.91
X	45+06.00	-21.00	631.91	632.02
Y	45+16.00	-21.00	631.98	632.12
Z	45+26.00	-21.00	632.06	632.20
AA	45+36.00	-21.00	632.14	632.26
AB	45+46.00	-21.00	632.21	632.31
AC	45+56.00	-21.00	632.29	632.34
CLBRGW	45+66.00	-21.00	632.36	632.36
BKWABUT	45+67.67	-21.00	632.38	632.38

**GIRDER 5**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.27	-13.17	630.07	630.07
CLBRGE	42+44.94	-13.18	630.09	630.09
A	42+54.96	-13.22	630.16	630.21
B	42+64.98	-13.24	630.24	630.34
C	42+75.00	-13.25	630.31	630.44
D	42+85.00	-13.25	630.39	630.53
E	42+95.00	-13.25	630.47	630.60
F	43+05.00	-13.25	630.54	630.65
G	43+15.00	-13.25	630.62	630.70
H	43+25.00	-13.25	630.69	630.74
I	43+35.00	-13.25	630.77	630.79
CLP1	43+45.00	-13.25	630.85	630.85
J	43+55.00	-13.25	630.92	630.92
K	43+65.00	-13.25	631.00	631.01
L	43+75.00	-13.25	631.07	631.11
M	43+85.00	-13.25	631.15	631.20
N	43+95.00	-13.25	631.23	631.29
O	44+05.00	-13.25	631.30	631.38
P	44+15.00	-13.25	631.38	631.45
Q	44+25.00	-13.25	631.45	631.51
R	44+35.00	-13.25	631.53	631.56
S	44+45.00	-13.25	631.61	631.62
T	44+55.00	-13.25	631.68	631.68
CLP2	44+66.00	-13.25	631.77	631.77
U	44+76.00	-13.25	631.84	631.86
V	44+86.00	-13.25	631.92	631.96
W	44+96.00	-13.25	631.99	632.07
X	45+06.00	-13.25	632.07	632.18
Y	45+16.00	-13.25	632.15	632.28
Z	45+26.00	-13.25	632.22	632.36
AA	45+36.00	-13.25	632.30	632.42
AB	45+46.00	-13.25	632.37	632.47
AC	45+56.00	-13.25	632.45	632.50
CLBRGW	45+66.00	-13.25	632.53	632.53
BKWABUT	45+67.67	-13.25	632.54	632.54

**GIRDER 6**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.31	-5.42	630.23	630.23
CLBRGE	42+44.98	-5.43	630.25	630.25
A	42+54.98	-5.47	630.32	630.38
B	42+64.99	-5.49	630.40	630.50
C	42+75.00	-5.50	630.48	630.60
D	42+85.00	-5.50	630.55	630.69
E	42+95.00	-5.50	630.63	630.76
F	43+05.00	-5.50	630.70	630.81
G	43+15.00	-5.50	630.78	630.86
H	43+25.00	-5.50	630.86	630.90
I	43+35.00	-5.50	630.93	630.95
CLP1	43+45.00	-5.50	631.01	631.01
J	43+55.00	-5.50	631.08	631.09
K	43+65.00	-5.50	631.16	631.17
L	43+75.00	-5.50	631.24	631.27
M	43+85.00	-5.50	631.31	631.36
N	43+95.00	-5.50	631.39	631.45
O	44+05.00	-5.50	631.46	631.54
P	44+15.00	-5.50	631.54	631.61
Q	44+25.00	-5.50	631.62	631.67
R	44+35.00	-5.50	631.69	631.73
S	44+45.00	-5.50	631.77	631.78
T	44+55.00	-5.50	631.84	631.85
CLP2	44+66.00	-5.50	631.93	631.93
U	44+76.00	-5.50	632.00	632.02
V	44+86.00	-5.50	632.08	632.12
W	44+96.00	-5.50	632.16	632.23
X	45+06.00	-5.50	632.23	632.34
Y	45+16.00	-5.50	632.31	632.44
Z	45+26.00	-5.50	632.38	632.52
AA	45+36.00	-5.50	632.46	632.59
AB	45+46.00	-5.50	632.54	632.63
AC	45+56.00	-5.50	632.61	632.66
CLBRGW	45+66.00	-5.50	632.69	632.69
BKWABUT	45+67.67	-5.50	632.70	632.70

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:21:03 AM	DRAWN RLK	REVISED -
PLOT SCALE = 48.0000 ' / 1"	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**TOP OF DECK ELEVATIONS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 9 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	106
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				

FILE NAME = I:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\WestBridge\deckel.dgn

**CL REAS BRIDGE ROAD/PGL**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.33	0.00	630.35	630.35
CLBRGE	42+45.00	0.00	630.36	630.36
A	42+55.00	0.00	630.44	630.49
B	42+65.00	0.00	630.51	630.61
C	42+75.00	0.00	630.59	630.72
D	42+85.00	0.00	630.67	630.80
E	42+95.00	0.00	630.74	630.87
F	43+05.00	0.00	630.82	630.93
G	43+15.00	0.00	630.89	630.97
H	43+25.00	0.00	630.97	631.01
I	43+35.00	0.00	631.05	631.06
CLP1	43+45.00	0.00	631.12	631.12
J	43+55.00	0.00	631.20	631.20
K	43+65.00	0.00	631.27	631.29
L	43+75.00	0.00	631.35	631.38
M	43+85.00	0.00	631.43	631.48
N	43+95.00	0.00	631.50	631.57
O	44+05.00	0.00	631.58	631.65
P	44+15.00	0.00	631.65	631.72
Q	44+25.00	0.00	631.73	631.78
R	44+35.00	0.00	631.81	631.84
S	44+45.00	0.00	631.88	631.90
T	44+55.00	0.00	631.96	631.96
CLP2	44+66.00	0.00	632.04	632.04
U	44+76.00	0.00	632.12	632.13
V	44+86.00	0.00	632.19	632.24
W	44+96.00	0.00	632.27	632.35
X	45+06.00	0.00	632.35	632.45
Y	45+16.00	0.00	632.42	632.55
Z	45+26.00	0.00	632.50	632.64
AA	45+36.00	0.00	632.57	632.70
AB	45+46.00	0.00	632.65	632.75
AC	45+56.00	0.00	632.73	632.78
CLBRGW	45+66.00	0.00	632.80	632.80
BKWABUT	45+67.67	0.00	632.81	632.81

**GIRDER 7**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.34	2.33	630.30	630.30
CLBRGE	42+45.01	2.32	630.32	630.32
A	42+55.01	2.28	630.39	630.44
B	42+65.00	2.26	630.47	630.56
C	42+75.00	2.25	630.54	630.67
D	42+85.00	2.25	630.62	630.76
E	42+95.00	2.25	630.70	630.83
F	43+05.00	2.25	630.77	630.88
G	43+15.00	2.25	630.85	630.92
H	43+25.00	2.25	630.92	630.97
I	43+35.00	2.25	631.00	631.02
CLP1	43+45.00	2.25	631.08	631.08
J	43+55.00	2.25	631.15	631.15
K	43+65.00	2.25	631.23	631.24
L	43+75.00	2.25	631.30	631.34
M	43+85.00	2.25	631.38	631.43
N	43+95.00	2.25	631.46	631.52
O	44+05.00	2.25	631.53	631.60
P	44+15.00	2.25	631.61	631.67
Q	44+25.00	2.25	631.68	631.74
R	44+35.00	2.25	631.76	631.79
S	44+45.00	2.25	631.84	631.85
T	44+55.00	2.25	631.91	631.91
CLP2	44+66.00	2.25	631.99	631.99
U	44+76.00	2.25	632.07	632.09
V	44+86.00	2.25	632.15	632.19
W	44+96.00	2.25	632.22	632.30
X	45+06.00	2.25	632.30	632.41
Y	45+16.00	2.25	632.37	632.51
Z	45+26.00	2.25	632.45	632.59
AA	45+36.00	2.25	632.53	632.65
AB	45+46.00	2.25	632.60	632.70
AC	45+56.00	2.25	632.68	632.73
CLBRGW	45+66.00	2.25	632.75	632.75
BKWABUT	45+67.67	2.25	632.77	632.77

**GIRDER 8**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.38	10.08	630.14	630.14
CLBRGE	42+45.04	10.07	630.15	630.15
A	42+55.03	10.03	630.23	630.28
B	42+65.02	10.01	630.31	630.40
C	42+75.00	10.00	630.38	630.51
D	42+85.00	10.00	630.46	630.60
E	42+95.00	10.00	630.53	630.66
F	43+05.00	10.00	630.61	630.72
G	43+15.00	10.00	630.69	630.76
H	43+25.00	10.00	630.76	630.81
I	43+35.00	10.00	630.84	630.85
CLP1	43+45.00	10.00	630.91	630.91
J	43+55.00	10.00	630.99	630.99
K	43+65.00	10.00	631.07	631.08
L	43+75.00	10.00	631.14	631.17
M	43+85.00	10.00	631.22	631.27
N	43+95.00	10.00	631.29	631.36
O	44+05.00	10.00	631.37	631.44
P	44+15.00	10.00	631.45	631.51
Q	44+25.00	10.00	631.52	631.57
R	44+35.00	10.00	631.60	631.63
S	44+45.00	10.00	631.67	631.69
T	44+55.00	10.00	631.75	631.75
CLP2	44+66.00	10.00	631.83	631.83
U	44+76.00	10.00	631.91	631.93
V	44+86.00	10.00	631.99	632.03
W	44+96.00	10.00	632.06	632.14
X	45+06.00	10.00	632.14	632.25
Y	45+16.00	10.00	632.21	632.34
Z	45+26.00	10.00	632.29	632.43
AA	45+36.00	10.00	632.37	632.49
AB	45+46.00	10.00	632.44	632.54
AC	45+56.00	10.00	632.52	632.57
CLBRGW	45+66.00	10.00	632.59	632.59
BKWABUT	45+67.67	10.00	632.61	632.61

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:21:20 AM	DRAWN RLK	REVISED -
PLOT SCALE = 48.0000 ' / in.	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**TOP OF DECK ELEVATIONS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 10 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	107
<b>CONTRACT NO. 95912</b>				
<small>ILLINOIS FED. AID PROJECT</small>				

FILE NAME = I:\Municipalities\Macon County\6487 Rees Bridge Road Bridge Replacement\CADD\Structural\WestBridge\deckel.dgn

**GIRDER 9**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.42	17.83	629.98	629.98
CLBRGE	42+45.08	17.82	629.99	629.99
A	42+55.05	17.78	630.07	630.12
B	42+65.03	17.76	630.14	630.24
C	42+75.01	17.75	630.22	630.35
D	42+85.00	17.75	630.30	630.43
E	42+95.00	17.75	630.37	630.50
F	43+05.00	17.75	630.45	630.56
G	43+15.00	17.75	630.52	630.60
H	43+25.00	17.75	630.60	630.64
I	43+35.00	17.75	630.68	630.69
CLP1	43+45.00	17.75	630.75	630.75
J	43+55.00	17.75	630.83	630.83
K	43+65.00	17.75	630.90	630.92
L	43+75.00	17.75	630.98	631.01
M	43+85.00	17.75	631.06	631.11
N	43+95.00	17.75	631.13	631.20
O	44+05.00	17.75	631.21	631.28
P	44+15.00	17.75	631.28	631.35
Q	44+25.00	17.75	631.36	631.41
R	44+35.00	17.75	631.44	631.47
S	44+45.00	17.75	631.51	631.53
T	44+55.00	17.75	631.59	631.59
CLP2	44+66.00	17.75	631.67	631.67
U	44+76.00	17.75	631.75	631.76
V	44+86.00	17.75	631.82	631.87
W	44+96.00	17.75	631.90	631.98
X	45+06.00	17.75	631.98	632.08
Y	45+16.00	17.75	632.05	632.18
Z	45+26.00	17.75	632.13	632.27
AA	45+36.00	17.75	632.20	632.33
AB	45+46.00	17.75	632.28	632.38
AC	45+56.00	17.75	632.36	632.41
CLBRGW	45+66.00	17.75	632.43	632.43
BKWABUT	45+67.67	17.75	632.44	632.44

**GIRDER 10**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.45	25.58	629.82	629.82
CLBRGE	42+45.11	25.57	629.83	629.83
A	42+55.08	25.53	629.91	629.96
B	42+65.04	25.51	629.98	630.08
C	42+75.01	25.50	630.06	630.19
D	42+85.00	25.50	630.13	630.27
E	42+95.00	25.50	630.21	630.34
F	43+05.00	25.50	630.29	630.40
G	43+15.00	25.50	630.36	630.44
H	43+25.00	25.50	630.44	630.48
I	43+35.00	25.50	630.51	630.53
CLP1	43+45.00	25.50	630.59	630.59
J	43+55.00	25.50	630.67	630.67
K	43+65.00	25.50	630.74	630.76
L	43+75.00	25.50	630.82	630.85
M	43+85.00	25.50	630.89	630.95
N	43+95.00	25.50	630.97	631.04
O	44+05.00	25.50	631.05	631.12
P	44+15.00	25.50	631.12	631.19
Q	44+25.00	25.50	631.20	631.25
R	44+35.00	25.50	631.27	631.31
S	44+45.00	25.50	631.35	631.37
T	44+55.00	25.50	631.43	631.43
CLP2	44+66.00	25.50	631.51	631.51
U	44+76.00	25.50	631.59	631.60
V	44+86.00	25.50	631.66	631.71
W	44+96.00	25.50	631.74	631.82
X	45+06.00	25.50	631.81	631.92
Y	45+16.00	25.50	631.89	632.02
Z	45+26.00	25.50	631.97	632.10
AA	45+36.00	25.50	632.04	632.17
AB	45+46.00	25.50	632.12	632.22
AC	45+56.00	25.50	632.19	632.25
CLBRGW	45+66.00	25.50	632.27	632.27
BKWABUT	45+67.67	25.50	632.28	632.28

**GIRDER 11**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
BKEABUT	42+43.49	33.33	629.66	629.66
CLBRGE	42+45.15	33.32	629.67	629.67
A	42+55.10	33.28	629.75	629.80
B	42+65.06	33.26	629.82	629.92
C	42+75.01	33.25	629.90	630.02
D	42+85.00	33.25	629.97	630.11
E	42+95.00	33.25	630.05	630.18
F	43+05.00	33.25	630.13	630.23
G	43+15.00	33.25	630.20	630.28
H	43+25.00	33.25	630.28	630.32
I	43+35.00	33.25	630.35	630.37
CLP1	43+45.00	33.25	630.43	630.43
J	43+55.00	33.25	630.51	630.51
K	43+65.00	33.25	630.58	630.60
L	43+75.00	33.25	630.66	630.69
M	43+85.00	33.25	630.73	630.78
N	43+95.00	33.25	630.81	630.88
O	44+05.00	33.25	630.89	630.96
P	44+15.00	33.25	630.96	631.03
Q	44+25.00	33.25	631.04	631.09
R	44+35.00	33.25	631.11	631.15
S	44+45.00	33.25	631.19	631.21
T	44+55.00	33.25	631.27	631.27
CLP2	44+66.00	33.25	631.35	631.35
U	44+76.00	33.25	631.42	631.44
V	44+86.00	33.25	631.50	631.55
W	44+96.00	33.25	631.58	631.65
X	45+06.00	33.25	631.65	631.76
Y	45+16.00	33.25	631.73	631.86
Z	45+26.00	33.25	631.80	631.94
AA	45+36.00	33.25	631.88	632.01
AB	45+46.00	33.25	631.96	632.05
AC	45+56.00	33.25	632.03	632.09
CLBRGW	45+66.00	33.25	632.11	632.11
BKWABUT	45+67.67	33.25	632.12	632.12

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:21:39 AM	DRAWN RLK	REVISED -
PLOT SCALE = 48.0000' / 1" =	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**TOP OF DECK ELEVATIONS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 11 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	108
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				

SOUTH EDGE OF BICYCLE PATH

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+13.92	-47.58	629.20
A	42+23.98	-47.57	629.28
B	42+34.05	-47.55	629.35
W. End of E. Appr.	42+44.12	-47.51	629.43

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.03	-35.00	629.40
A	42+24.08	-34.99	629.47
B	42+34.12	-34.96	629.55
W. End of E. Appr.	42+44.17	-34.93	629.63

SOUTH EDGE OF EASTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.04	-33.00	629.44
A	42+24.09	-32.99	629.52
B	42+34.14	-32.96	629.59
W. End of E. Appr.	42+44.18	-32.93	629.67

NORTH EDGE OF EASTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.25	-9.00	629.94
A	42+24.27	-8.99	630.02
B	42+34.28	-8.96	630.09
W. End of E. Appr.	42+44.29	-8.92	630.17

REAS BRIDGE ROAD/PGL & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.33	0.00	630.13
A	42+24.33	0.00	630.20
B	42+34.33	0.00	630.28
W. End of E. Appr.	42+44.33	0.00	630.36

SOUTH EDGE OF WESTBOUND LANES

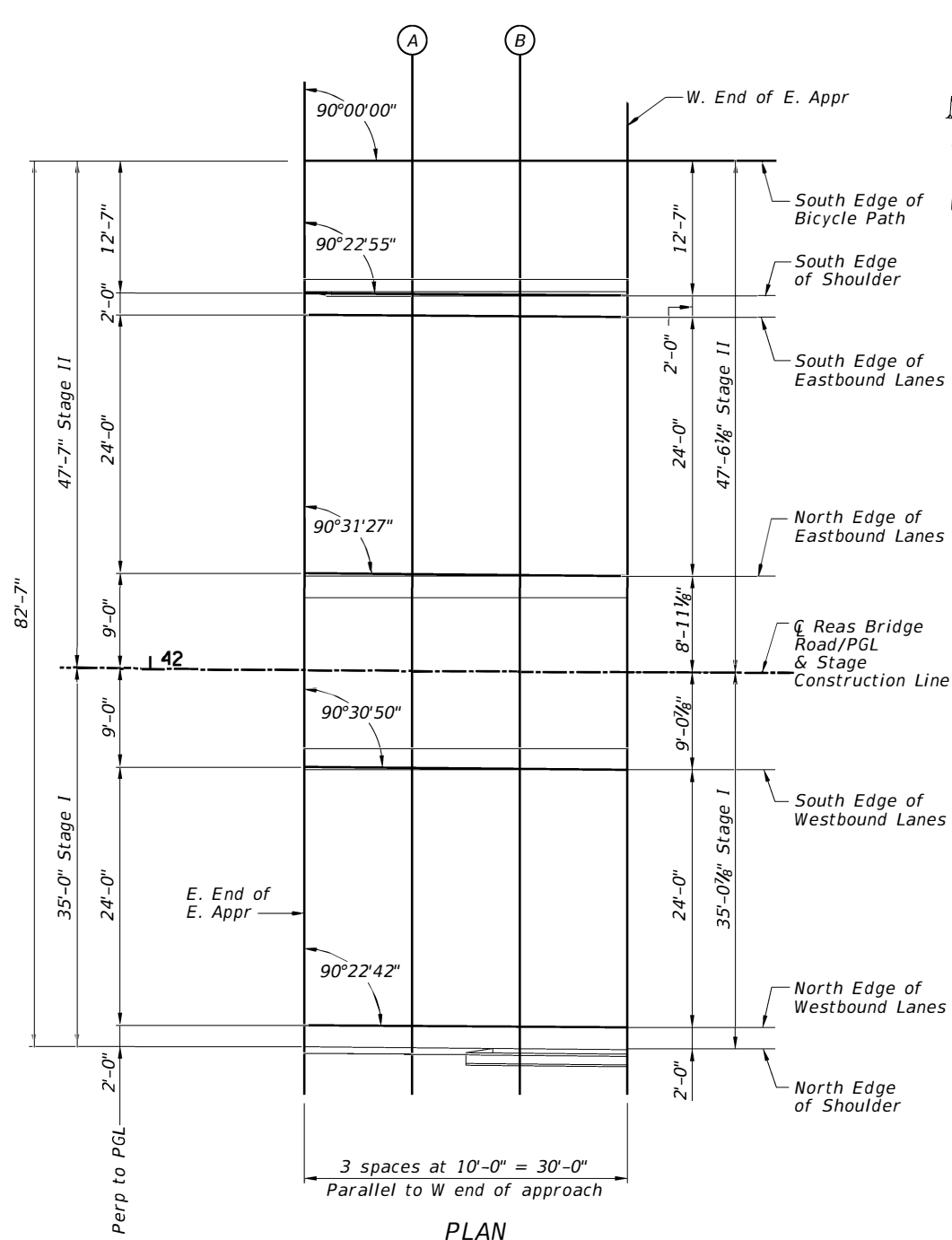
Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.41	9.00	629.94
A	42+24.40	9.01	630.02
B	42+34.39	9.04	630.09
W. End of E. Appr.	42+44.37	9.07	630.17

NORTH EDGE OF WESTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.62	33.00	629.44
A	42+24.57	33.01	629.52
B	42+34.53	33.04	629.59
W. End of E. Appr.	42+44.48	33.07	629.67

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End of E. Appr.	42+14.64	35.00	629.40
A	42+24.59	35.01	629.48
B	42+34.54	35.04	629.55
W. End of E. Appr.	42+44.49	35.07	629.63



PLAN

FILE NAME = I:\Municipal\Istas\Mecon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\WestBridge\apprel.dgn

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:23:47 AM	DRAWN RLK	REVISED -
PLOT SCALE = 16.0000' / in.	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**TOP OF EAST APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 12 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	109
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				

SOUTH EDGE OF BICYCLE PATH

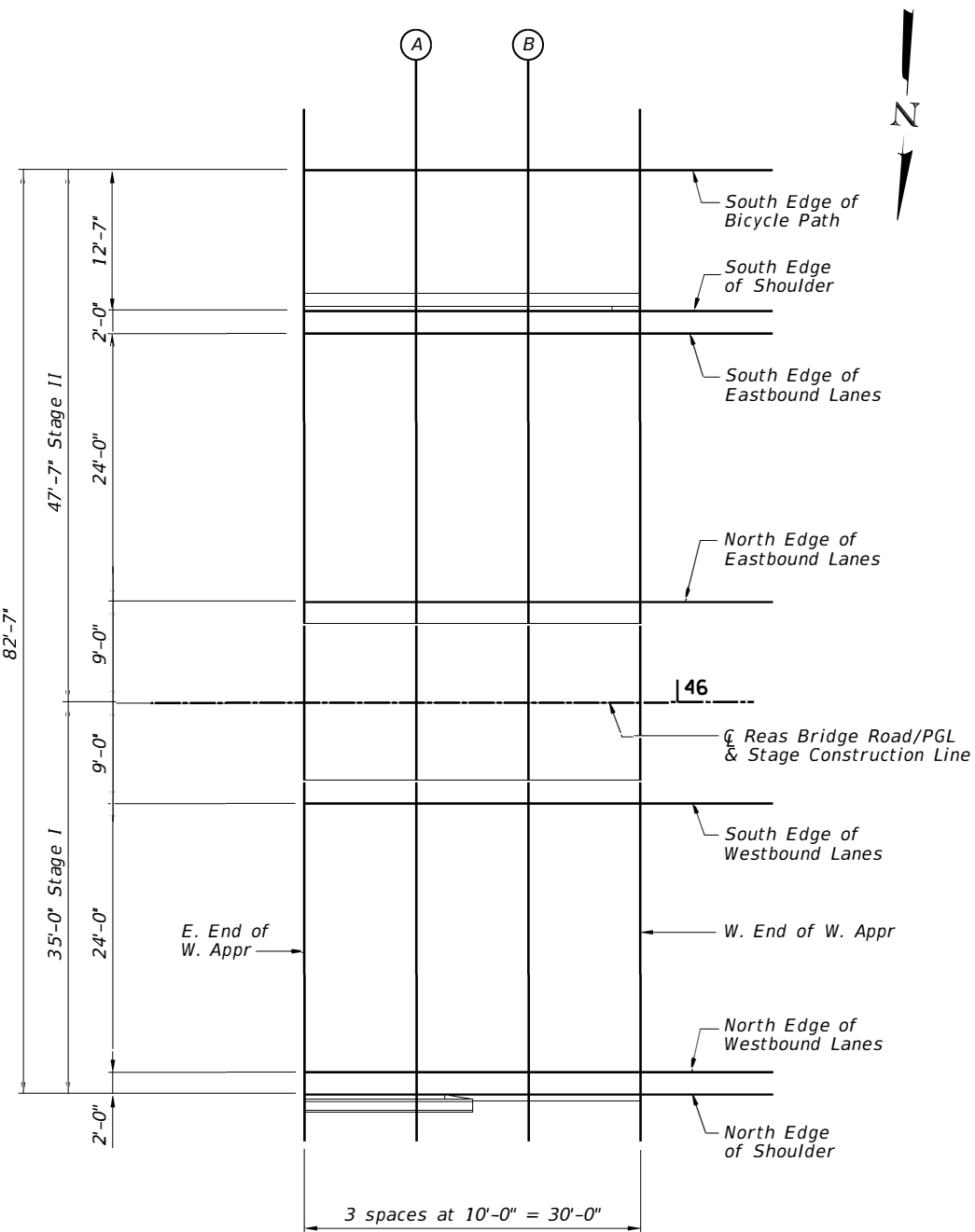
Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	-47.58	631.88
A	45+76.67	-47.58	631.96
B	45+86.67	-47.58	632.03
W. End of W. Appr.	45+96.67	-47.58	632.11

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	-35.00	632.08
A	45+76.67	-35.00	632.15
B	45+86.67	-35.00	632.23
W. End of W. Appr.	45+96.67	-35.00	632.31

SOUTH EDGE OF EASTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	-33.00	632.12
A	45+76.67	-33.00	632.20
B	45+86.67	-33.00	632.27
W. End of W. Appr.	45+96.67	-33.00	632.35



PLAN

NORTH EDGE OF EASTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	-9.00	632.62
A	45+76.67	-9.00	632.70
B	45+86.67	-9.00	632.77
W. End of W. Appr.	45+96.67	-9.00	632.85

CL REAS BRIDGE ROAD/PGL & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	0.00	632.81
A	45+76.67	0.00	632.88
B	45+86.67	0.00	632.96
W. End of W. Appr.	45+96.67	0.00	633.03

SOUTH EDGE OF WESTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	9.00	632.62
A	45+76.67	9.00	632.70
B	45+86.67	9.00	632.77
W. End of W. Appr.	45+96.67	9.00	632.85

NORTH EDGE OF WESTBOUND LANES

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	33.00	632.12
A	45+76.67	33.00	632.20
B	45+86.67	33.00	632.27
W. End of W. Appr.	45+96.67	33.00	632.35

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End of W. Appr.	45+66.67	35.00	632.08
A	45+76.67	35.00	632.15
B	45+86.67	35.00	632.23
W. End of W. Appr.	45+96.67	35.00	632.31

FILE NAME = I:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CA00.Structural\WestBridge\wepprel.dgn

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PLOT TIME = 12:39:54 AM	DRAWN RLK	REVISED -
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PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
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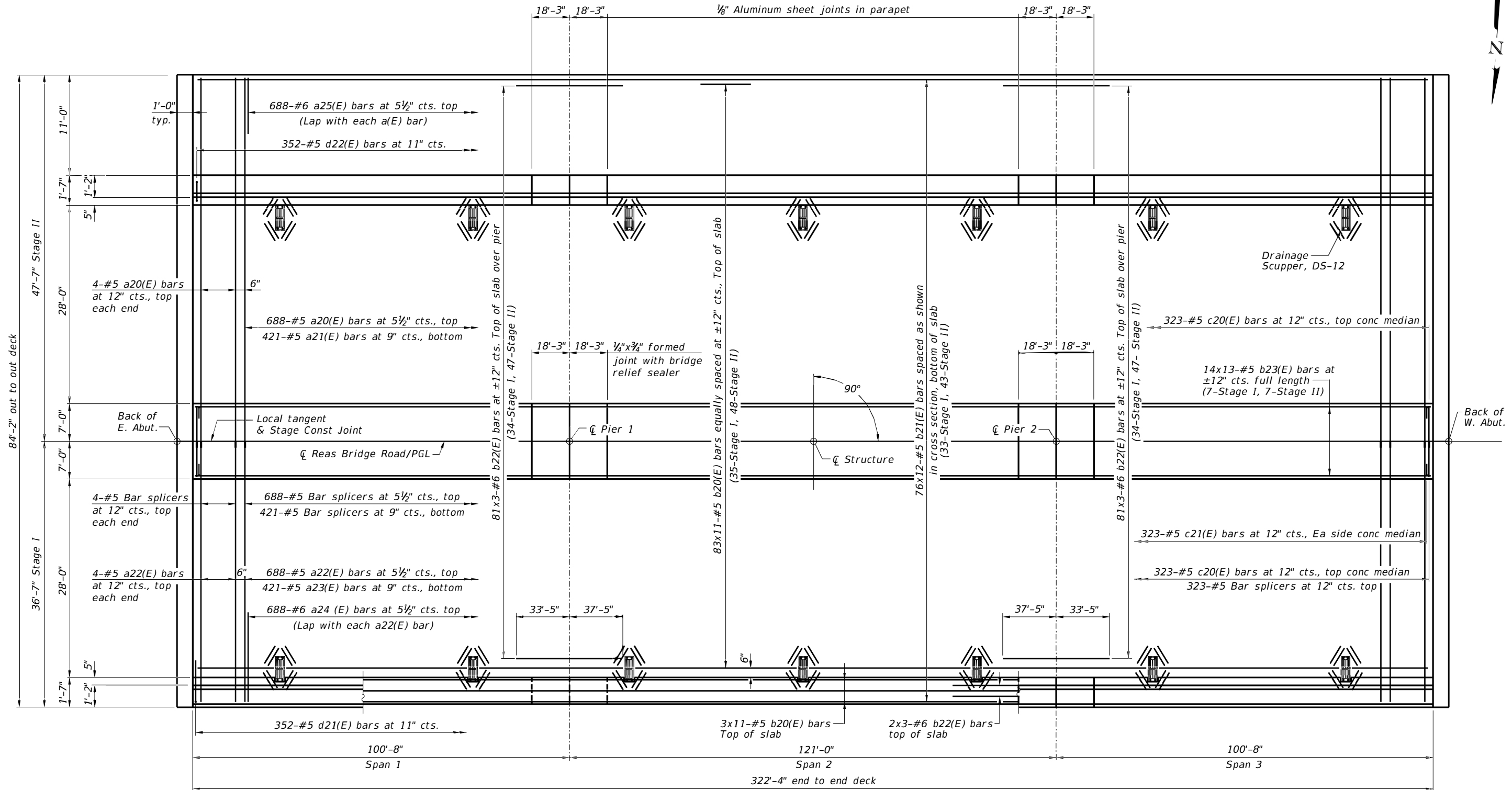
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**TOP OF WEST APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 13 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	110
<b>CONTRACT NO. 95912</b>				
(ILLINOIS) FED. AID PROJECT				

FILE NAME = I:\Municipalities\Macon County\6407 Rees Bridge Replacement\CADD\Structural\WestBridge\deckplan.dgn



PLAN

**MIN BAR LAP**  
 #5 bar = 3'-6"  
 #6 bar = 4'-10"

**Notes:**  
 See Sheet 17 of 40 for superstructure details and Bill of Material.  
 Bars indicated thus 76x12-#5 etc. indicates 76 lines of bars with 12 lengths per line.  
 See Sheet 17 of 40 for parapet reinforcement.  
 See Sheet 1 of 40 for scupper locations.  
 See Sheet 39 of 40 for bar splicer details.  
 See Sheet 25 of 40 for railing details.  
 See Sheet 18 of 40 for diaphragm details.

USER NAME = jbuening	DESIGNED <i>JMB</i>	REVISED -
PLOT TIME = 12:22:19 AM	DRAWN <i>RLK</i>	REVISED -
PLOT SCALE = 8.0000' / 1"	CHECKED <i>BCG</i>	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

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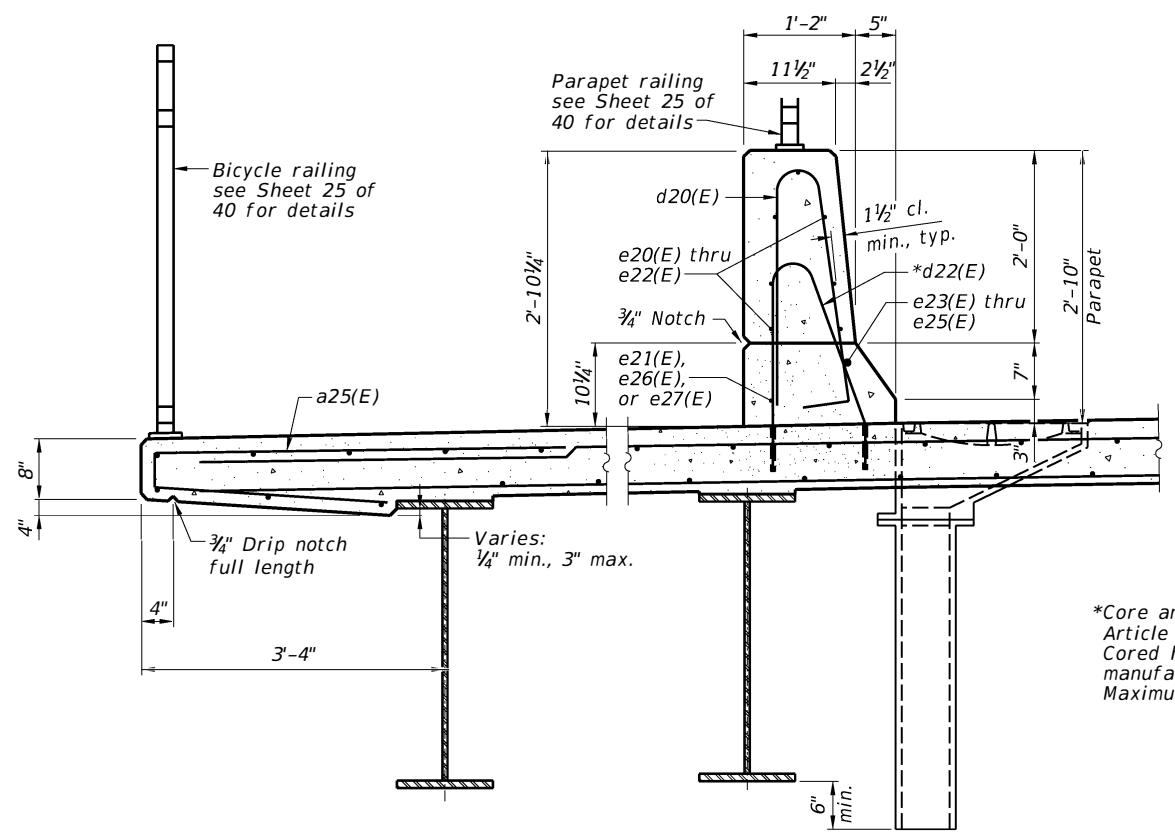
**SUPERSTRUCTURE**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 14 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>CONTRACT NO. 95912</b>				
[ILLINOIS] FED. AID PROJECT				

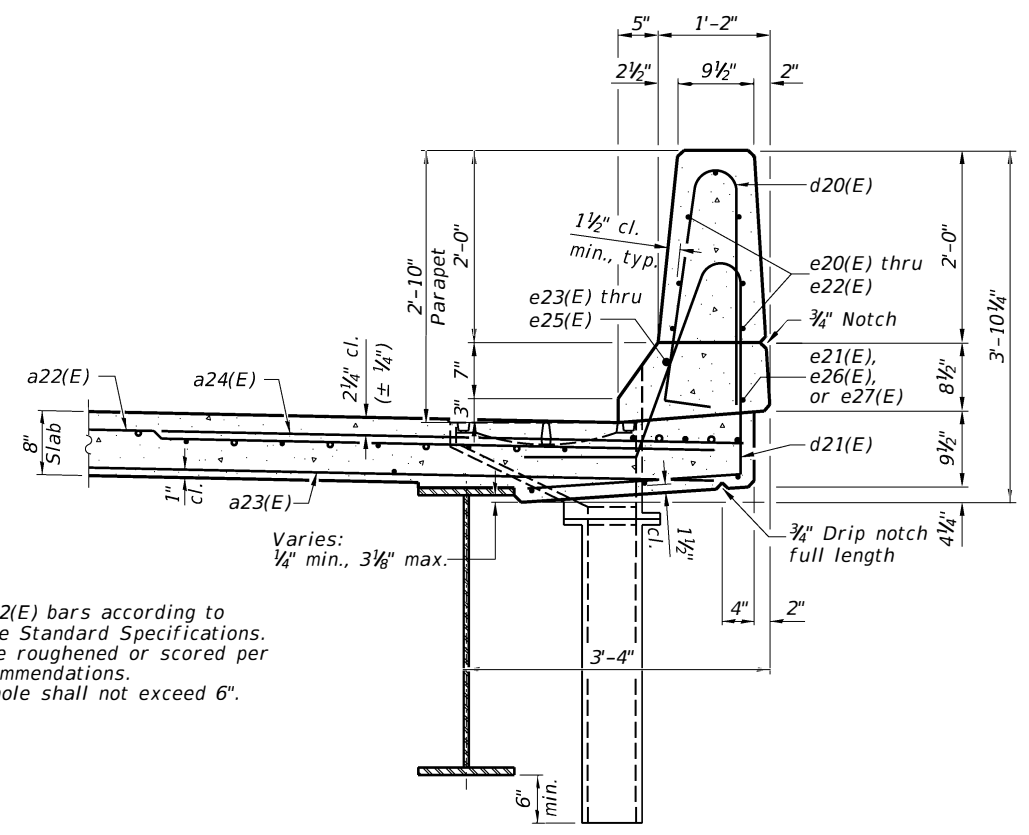






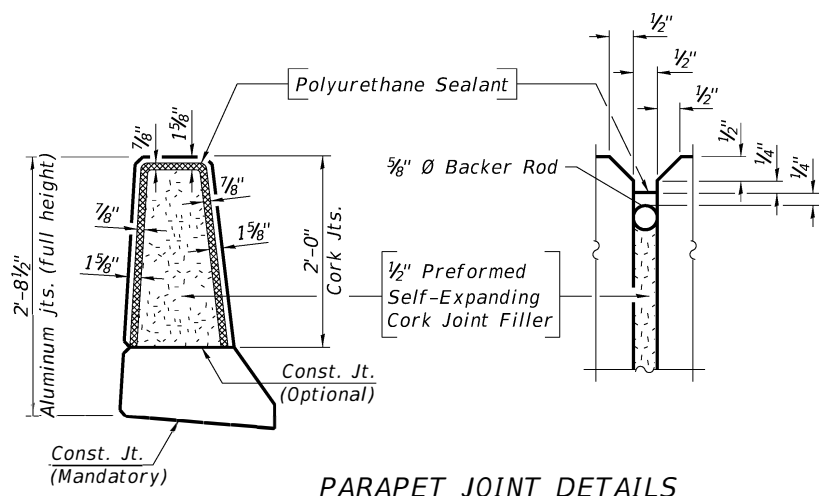


SECTION THRU SOUTH PARAPET

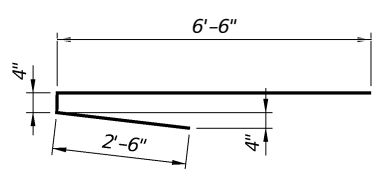


SECTION THRU NORTH PARAPET

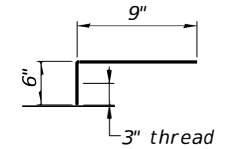
\*Core and set #5 d22(E) bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6\"/>



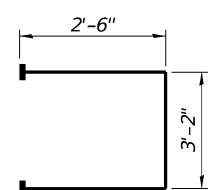
PARAPET JOINT DETAILS



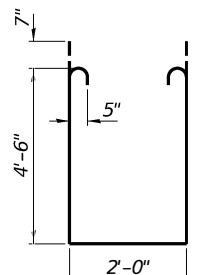
BAR a25(E)



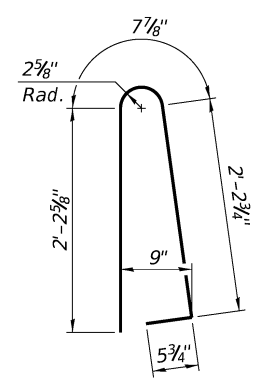
BAR c21(E)



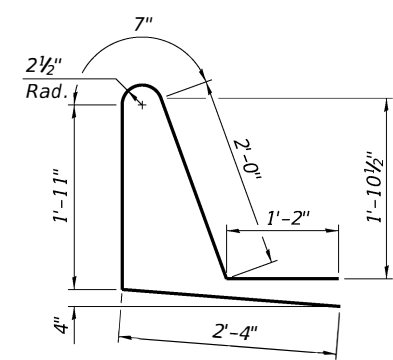
BAR s20(E)  
(Headed)



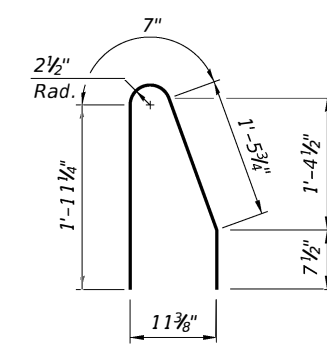
BAR s21(E)



BAR d20(E)



BAR d21(E)



BAR d22(E)

**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a20(E)	696	#5	47'-3"	—
a21(E)	421	#5	46'-11"	—
a22(E)	696	#5	35'-11"	—
a23(E)	421	#5	35'-7"	—
a24(E)	688	#6	6'-6"	—
a25(E)	688	#6	9'-4"	—
a26(E)	112	#5	2'-0"	—
b20(E)	946	#5	32'-6"	—
b21(E)	912	#5	30'-1"	—
b22(E)	498	#6	26'-10"	—
b23(E)	182	#5	26'-4"	—
c20(E)	646	#5	6'-7"	—
c21(E)	646	#5	1'-3"	—
d20(E)	704	#5	5'-7"	—
d21(E)	352	#5	8'-0"	—
d22(E)	352	#5	4'-8"	—
e20(E)	140	#4	16'-1"	—
e21(E)	64	#4	17'-11"	—
e22(E)	70	#4	16'-6"	—
e23(E)	12	#8	31'-4"	—
e24(E)	8	#8	17'-11"	—
e25(E)	6	#8	32'-0"	—
e26(E)	12	#4	29'-2"	—
e27(E)	6	#4	30'-0"	—
m20(E)	20	#6	25'-8"	—
m21(E)	80	#6	7'-4"	—
m22(E)	16	#6	2'-10"	—
m23(E)	88	#5	4'-0"	—
m24(E)	10	#6	35'-11"	—
s20(E)	152	#5	8'-2"	—
s21(E)	152	#5	12'-2"	—
Reinforcement Bars, Epoxy Coated	Pound		224,120	
Concrete Superstructure	Cu. Yds.		938.2	
Bridge Deck Grooving	Sq. Yd.		1862	
Protective Coat	Sq. Yd.		3207	

Bars indicated thus 1x2-#8 etc. indicates 1 line of bars with 2 lengths per line.

Notes:  
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.  
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.  
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

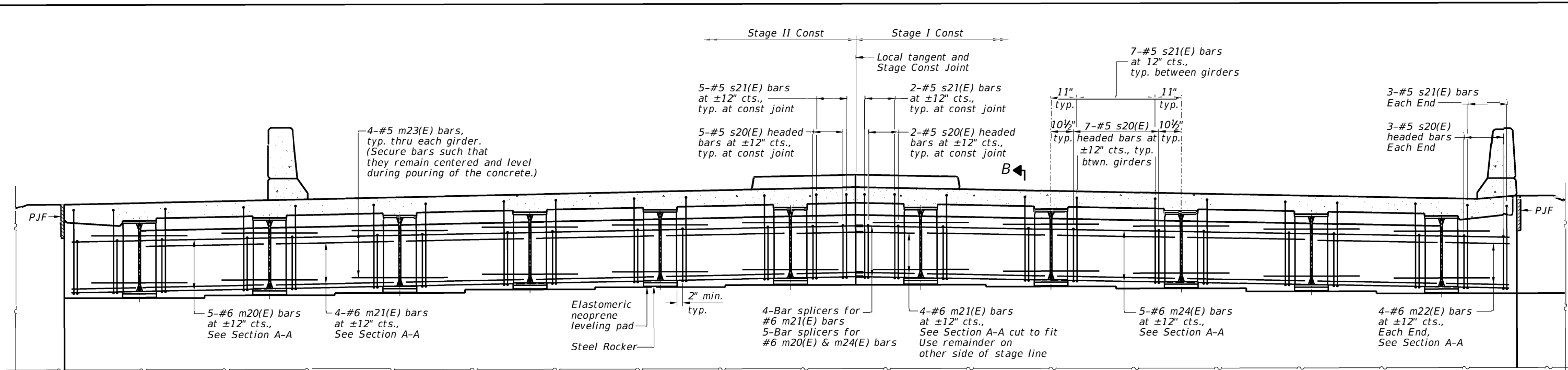
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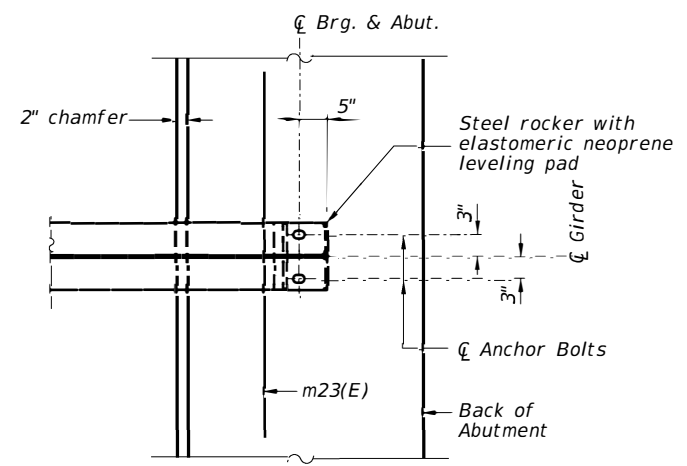
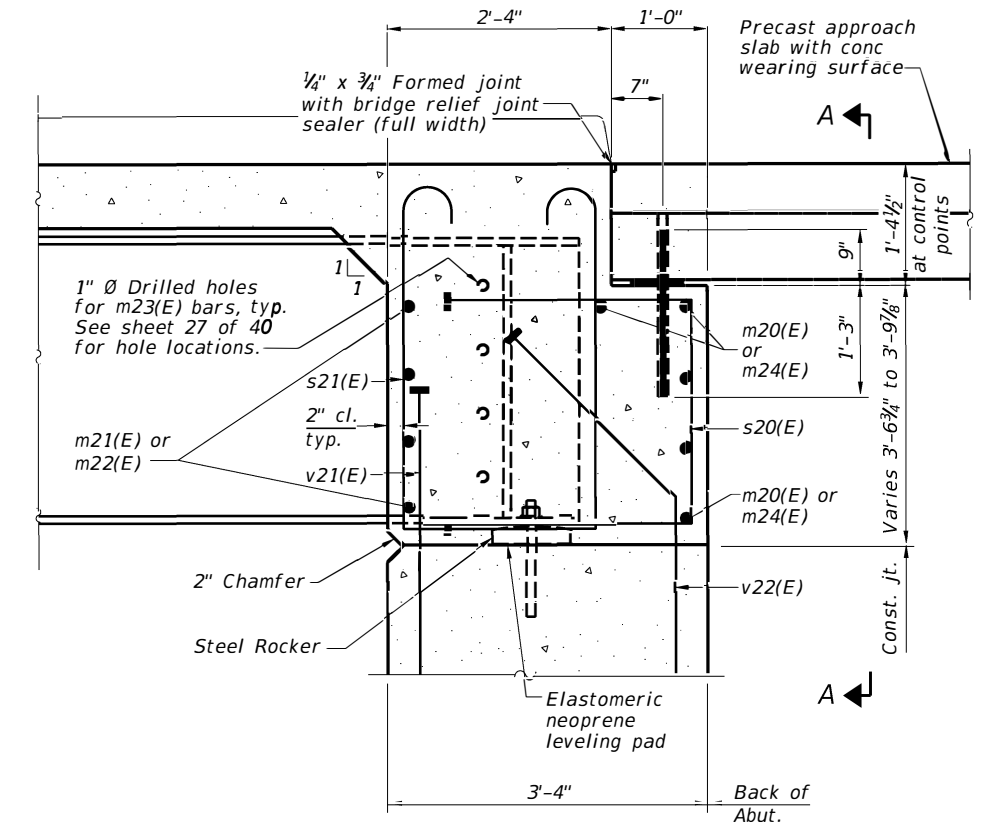
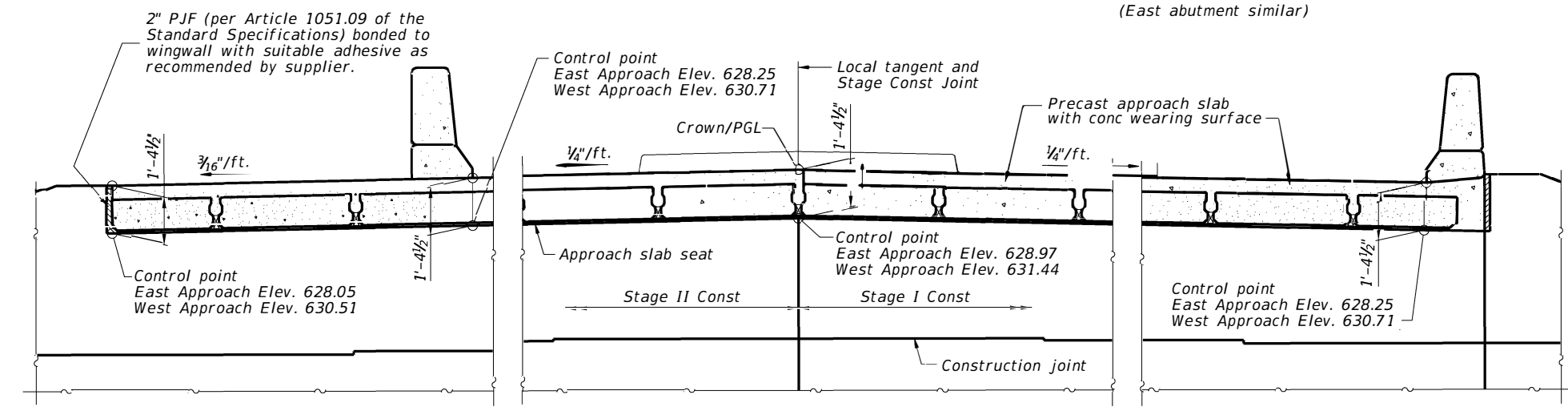
**CHASTAIN & ASSOCIATES LLC**  
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 DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 17 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	114
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				



**DIAPHRAGM ELEVATION AT WEST ABUTMENT**  
(East abutment similar)



**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 17 of 40.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 17 of 40.  
 For details of bars s20(E) and s21(E) see sheet 17 of 40.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 For bearing details see sheet 31 of 40.  
 Girders shall be braced for stability during erection and remain braced until deck is poured and cured.

FILE NAME = I:\Municipalities\Macon County\6487 Rev. Bridge Road Bridge Replacement\CADD\_Structural\WestBridge\diaphragm.dgn

**PARTIAL PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

USER NAME = j_buening	DESIGNED JMB	REVISED -
PLOT TIME = 12:23:14 AM	DRAWN RLK	REVISED -
PLOT SCALE = 8.0000' / 1"	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

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CONSULTING ENGINEERS

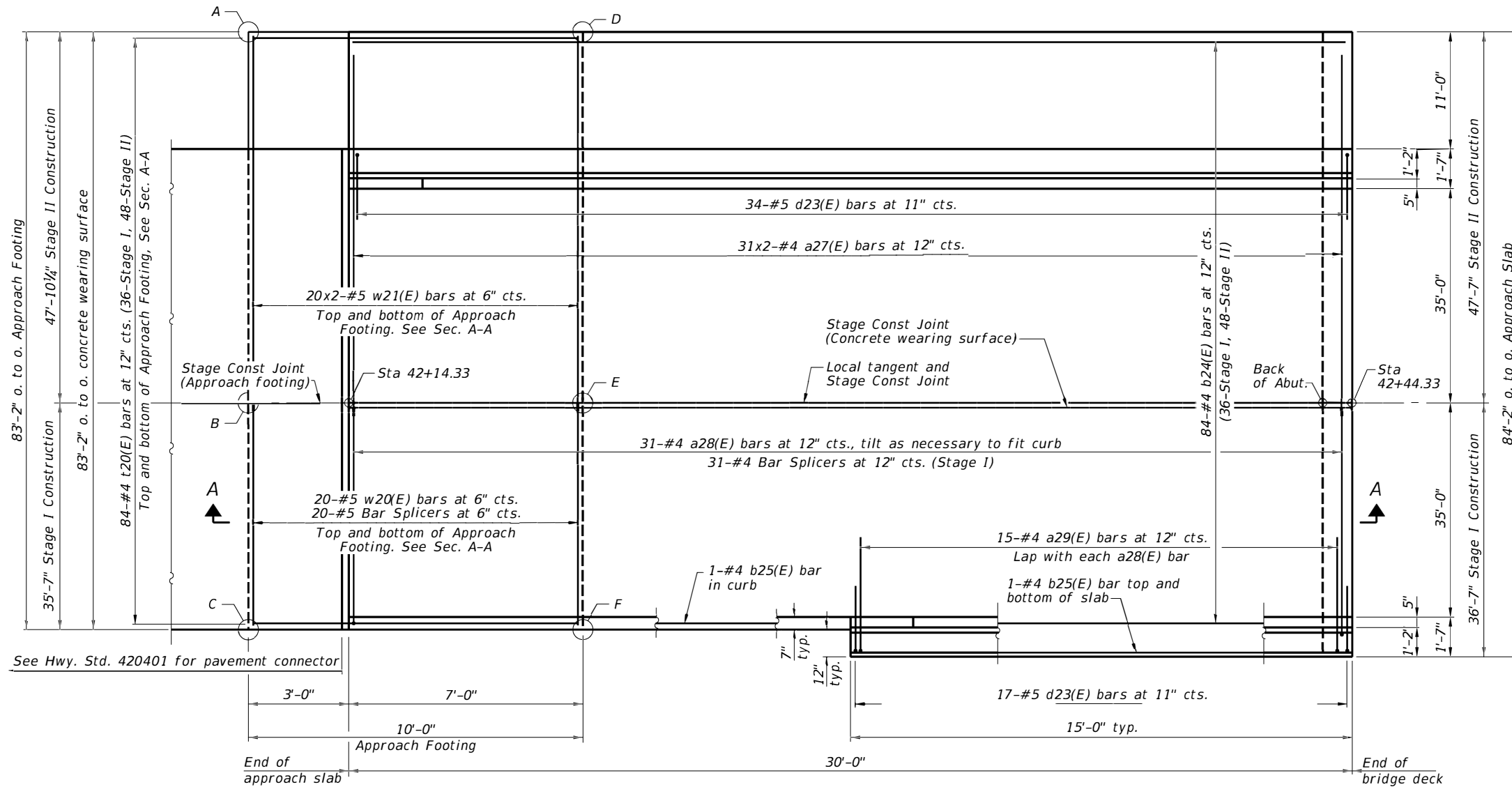
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**DIAPHRAGM DETAILS**  
STRUCTURE NO. 058-3408

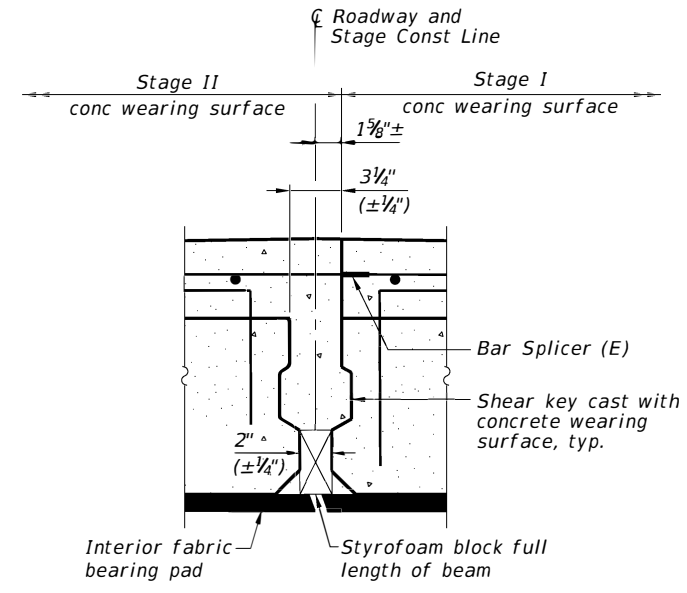
SHEET NO. 18 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	115
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

FILE NAME = I:\Municipalities\Macon County\6407 Reos Bridge Road Bridge Replacement\CADD\Structural\WestBridge\app-11ab.dgn



PLAN - EAST APPROACH



DETAIL 'A'

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	Top	Bottom
A	627.81	626.97
B	628.73	626.97
C	628.00	626.97
D	627.88	627.04
E	628.80	627.04
F	628.07	627.04

MIN BAR LAP

#4 bar = 2'-5"  
#5 bar = 3'-6"

(Sheet 1 of 6)

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:16:17 AM	DRAWN RLK	REVISED -
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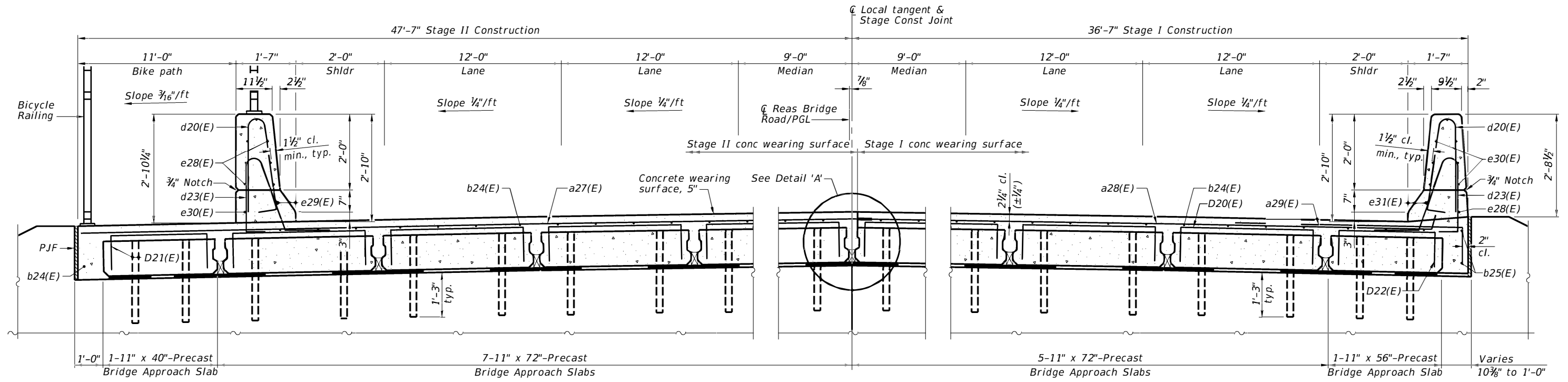
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
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184-001397

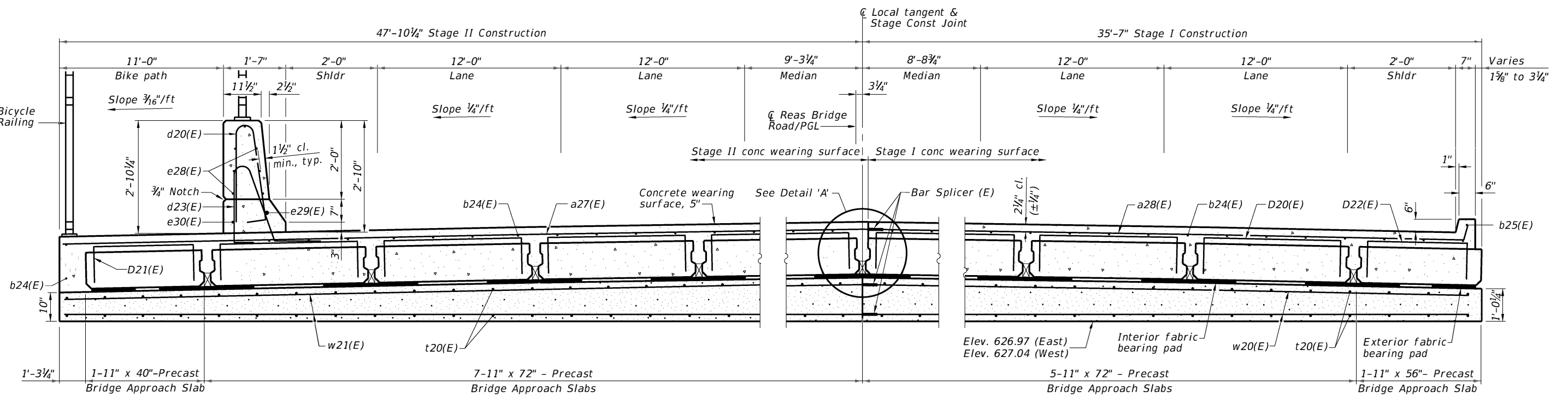
**PRECAST BRIDGE APPROACH SLAB (EAST APPROACH)**  
**STRUCTURE NO. 058-3408**

SHEET NO. 19 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	116
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				



**EAST APPROACH CROSS SECTION NEAR ABUTMENT**  
(Looking West)



**EAST APPROACH CROSS SECTION AT APPROACH FOOTING**  
(Looking West)

(Sheet 2 of 6)

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:16:32 AM	DRAWN RLK	REVISED -
PLOT SCALE = 8.0000' / 1"	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

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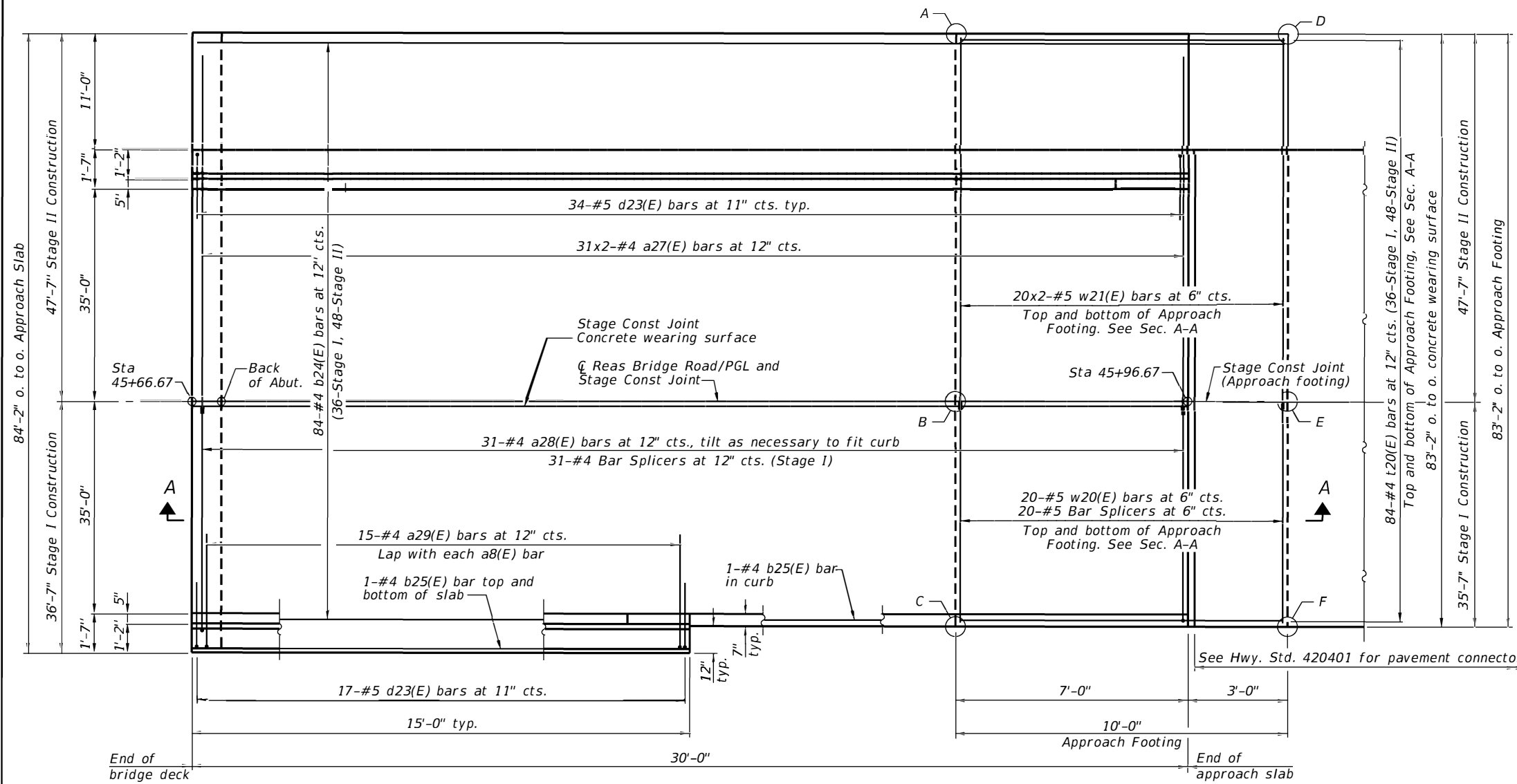
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**PRECAST BRIDGE APPROACH SLAB (EAST APPROACH)**  
**STRUCTURE NO. 058-3408**

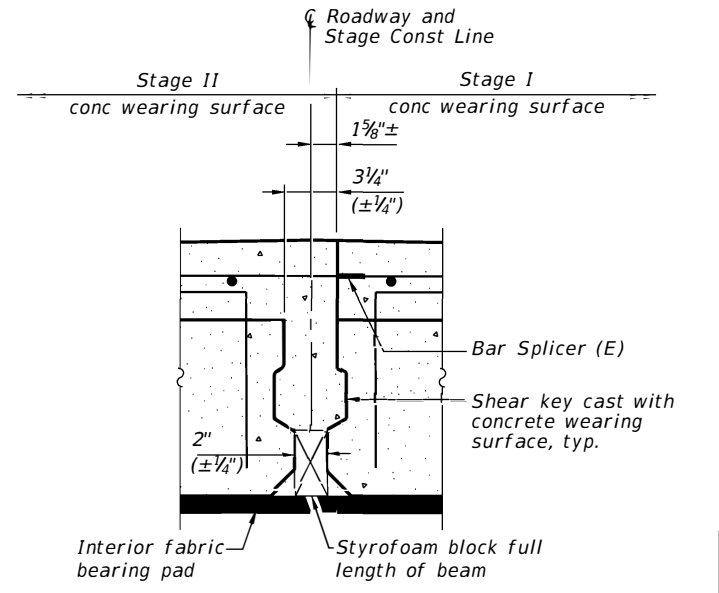
SHEET NO. 20 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	117
<b>CONTRACT NO. 95912</b>				

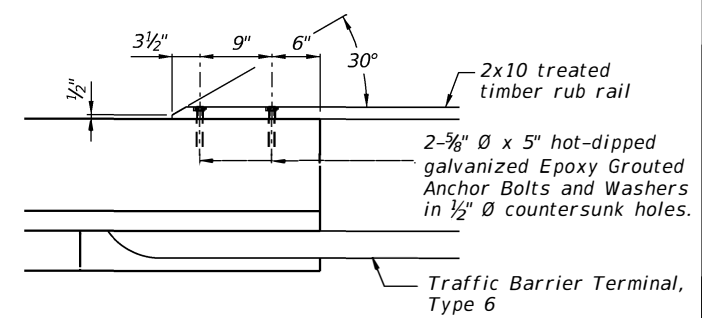
ILLINOIS FED. AID PROJECT



PLAN - WEST APPROACH



DETAIL 'A'

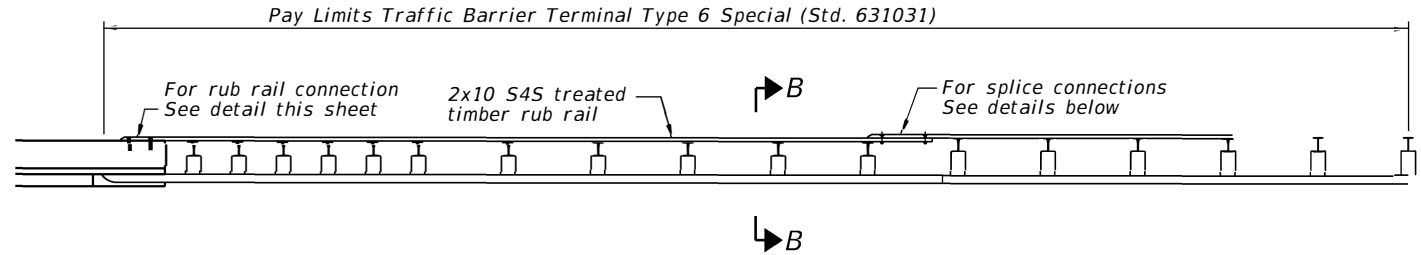


RUB RAIL CONNECTION TO PARAPET

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	Top	Bottom
A	630.68	629.85
B	631.61	629.85
C	630.87	629.85
D	630.76	630.03
E	631.68	630.03
F	630.94	630.03

Note: First two posts of TBT Type 6 conflict with approach slab footing. Form opening for posts accordingly.

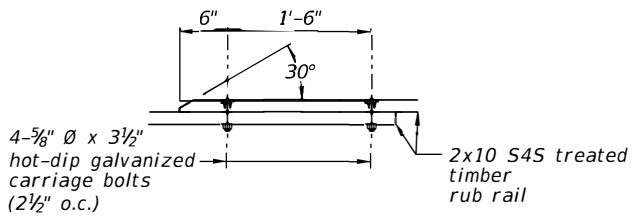


SHARED-USE PATH RUB RAIL DETAIL

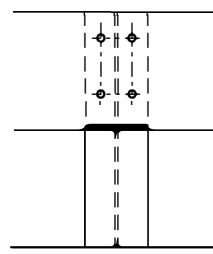
The cost for the rub rail work shall be included in the cost of Traffic Barrier Terminal, Type 6 Special (See Roadway Plans) Rub rail shall conform to Section 1007.

RUB RAIL LOCATION

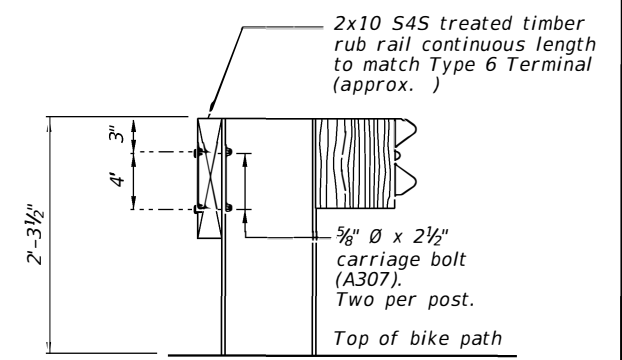
Station	to	Station
Lt 45+97		Lt 46+34



2x10 SPLICE CONNECTION DETAIL



ELEVATION



SECTION B-B

(Sheet 3 of 6)

FILE NAME = #FILE#

USER NAME = #USER#	DESIGNED JMB	REVISED -
PLOT TIME = #TIME#	DRAWN RLK	REVISED -
PLOT SCALE = #SCALE#	CHECKED BCG	REVISED -
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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

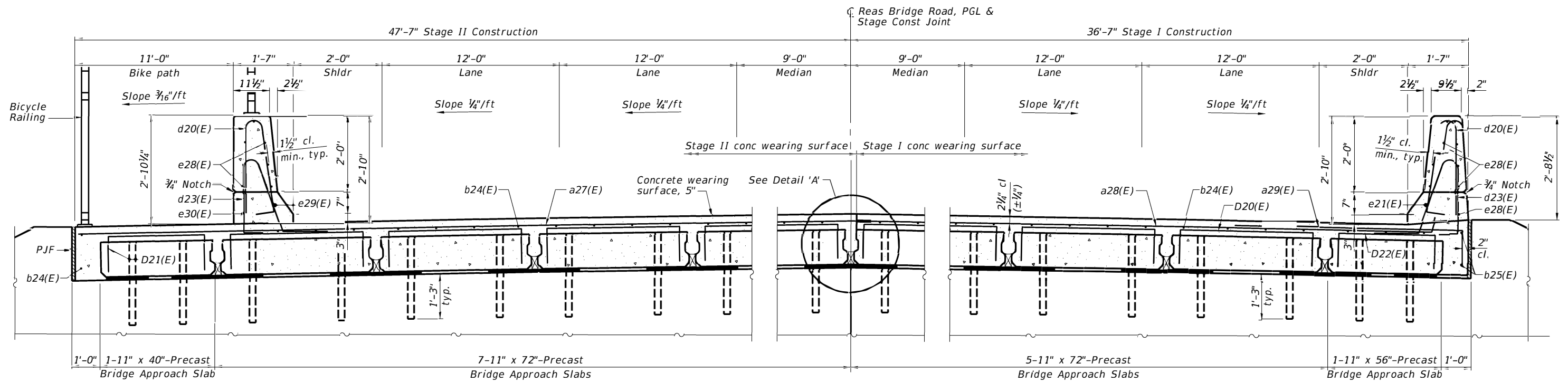
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**PRECAST BRIDGE APPROACH SLAB (WEST APPROACH)**  
**STRUCTURE NO. 058-3408**

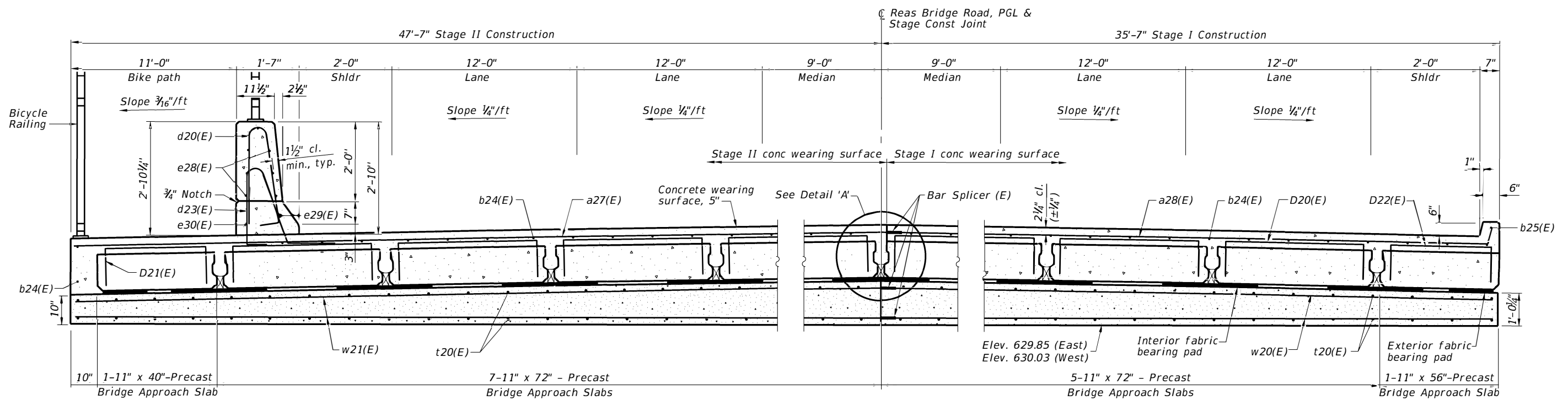
SHEET NO. 21 OF 40 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	118
CONTRACT NO. 95912				

ILLINOIS FED. AID PROJECT



**WEST APPROACH CROSS SECTION NEAR ABUTMENT**  
(Looking West)



**WEST APPROACH CROSS SECTION AT APPROACH FOOTING**  
(Looking West)

(Beams: 36" min. width; 72" max. width)

(Sheet 4 of 6)

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:17:12 AM	DRAWN RLK	REVISED -
PLOT SCALE = 8.0000' / 1"	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

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184-001397

**PRECAST BRIDGE APPROACH SLAB (WEST APPROACH)**  
**STRUCTURE NO. 058-3408**

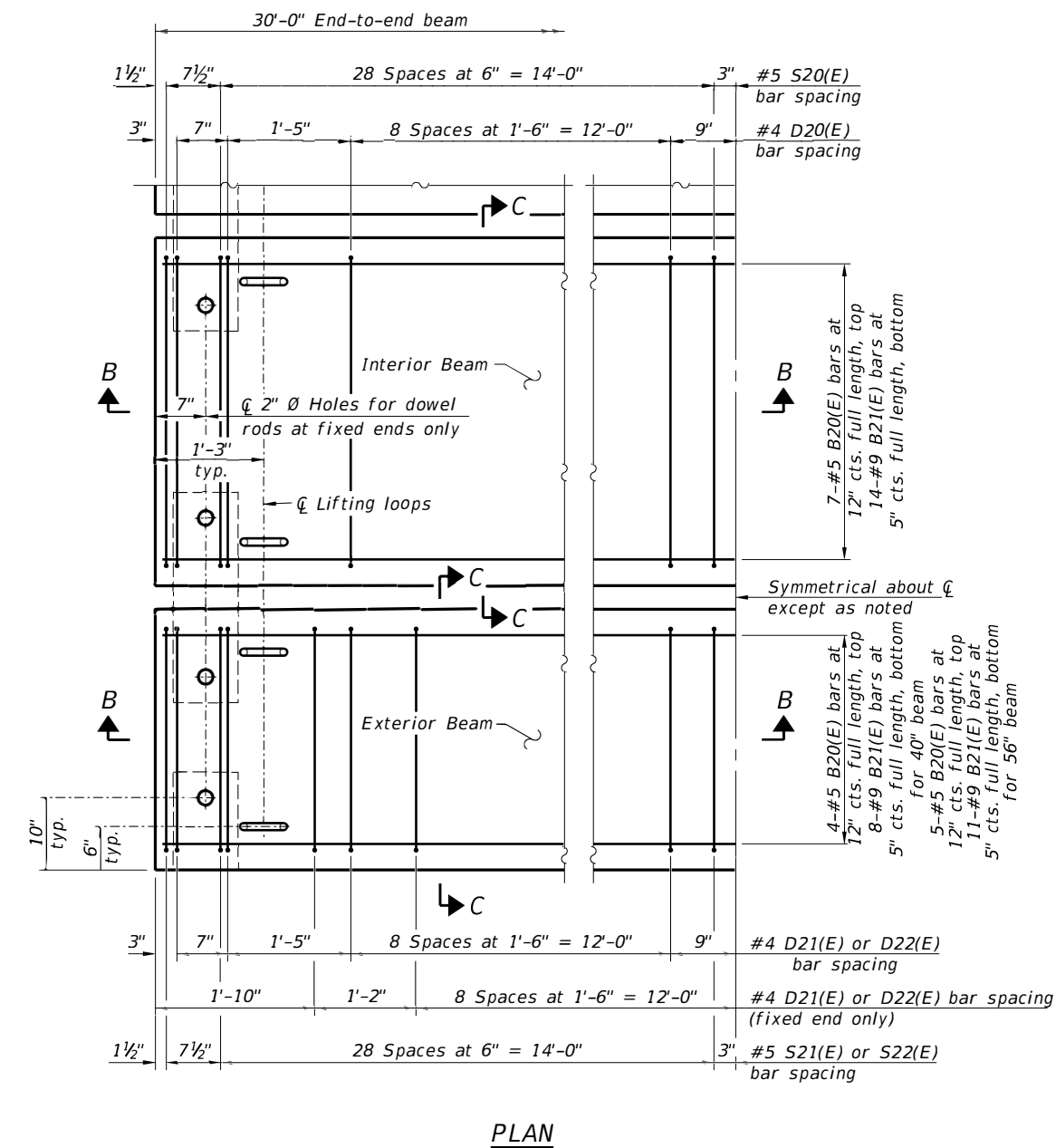
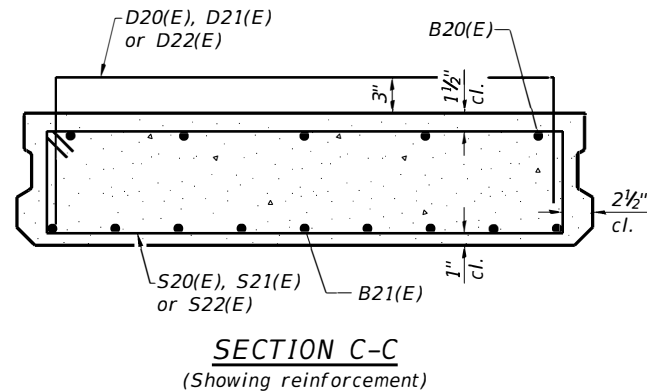
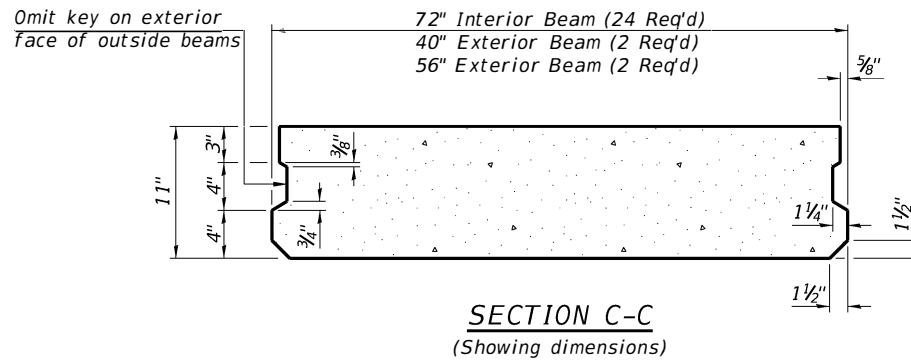
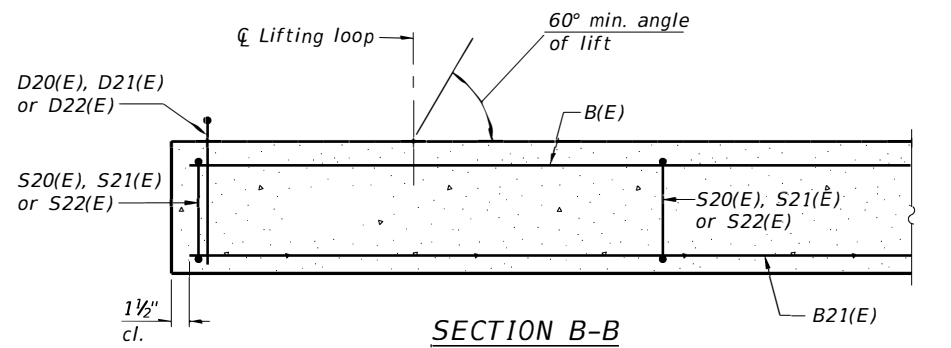
SHEET NO. 22 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	119
<b>CONTRACT NO. 95912</b>				

ILLINOIS FED. AID PROJECT

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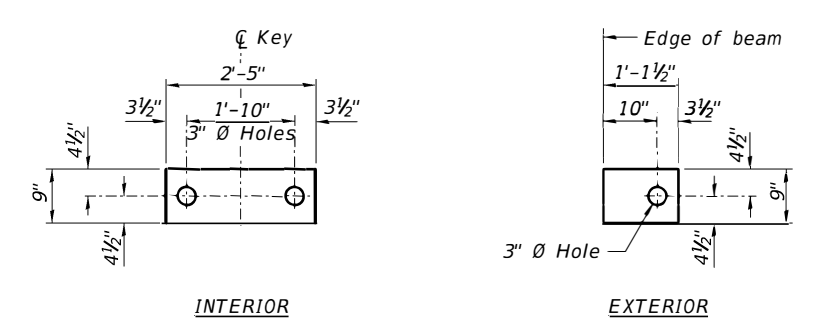
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PLAN

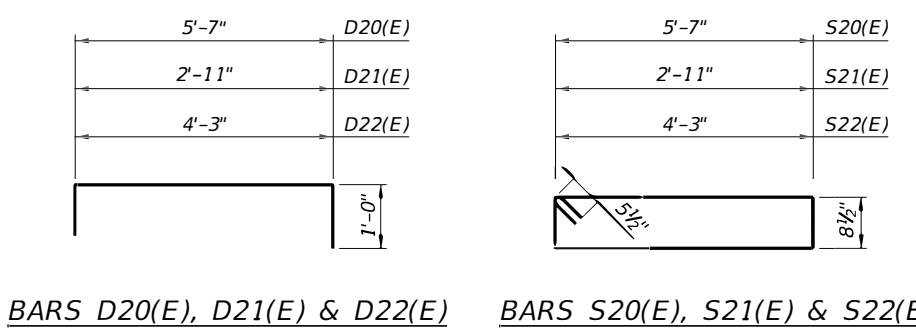
(Beams: 36" min. width; 72" max. width)

**Notes:**  
 The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.  
 Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.  
 The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."  
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.  
 A minimum 2 1/2" Ø lifting pins shall be used to engage the lifting loops during handling.  
 Compressive strength of precast concrete, f'c shall be 6,000 psi.  
 Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.

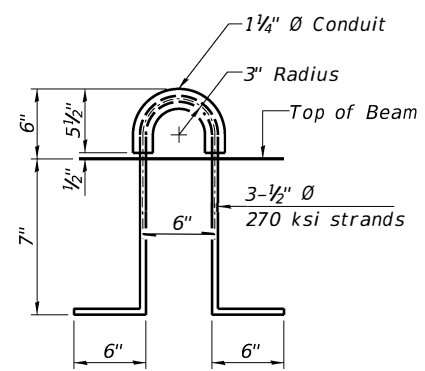


FABRIC BEARING PAD

**Notes:**  
 All bearing pads shall be 1/2" thick.  
 Omit holes for fabric bearing pads at approach slab footing end of beams.  
 Expansion bearing pad shall be bonded to the approach slab footing.



BARS D20(E), D21(E) & D22(E)      BARS S20(E), S21(E) & S22(E)



LIFTING LOOP DETAIL

(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BAR LIST EACH INTERIOR BEAM (For information only)

Bar	No.	Size	Length	Shape
B20(E)	168	#5	29'-8"	—
B21(E)	336	#9	29'-8"	—
D20(E)	22	#4	7'-7"	□
S20(E)	58	#5	13'-6"	▭

BAR LIST EACH EXTERIOR BEAM (40") (For information only)

Bar	No.	Size	Length	Shape
B20(E)	8	#5	29'-8"	—
B21(E)	16	#9	29'-8"	—
D21(E)	32	#4	4'-11"	□
S21(E)	58	#5	8'-2"	▭

BAR LIST EACH EXTERIOR BEAM (56") (For information only)

Bar	No.	Size	Length	Shape
B20(E)	10	#5	29'-8"	—
B21(E)	22	#9	29'-8"	—
D22(E)	32	#4	6'-3"	□
S22(E)	58	#5	10'-10"	▭

(Sheet 5 of 6)

USER NAME = jbuening	DESIGNED JMB	REVISED -
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PLOT SCALE = 8.0000' / 1"	CHECKED BCG	REVISED -
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**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

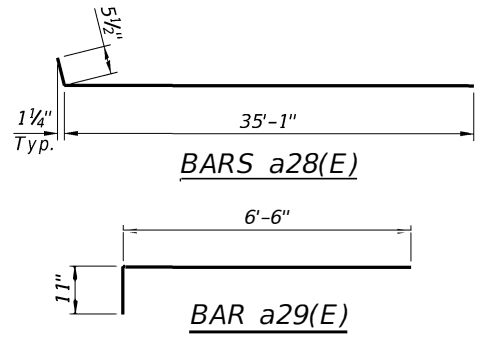
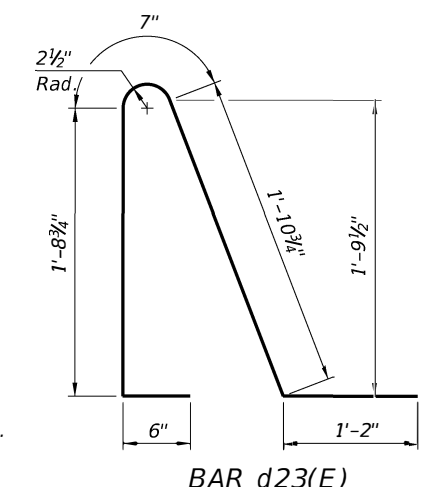
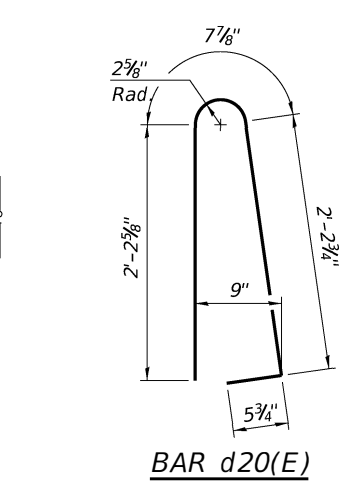
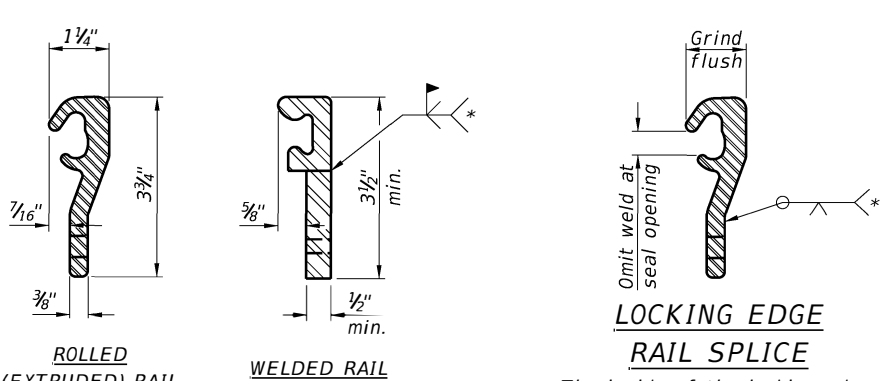
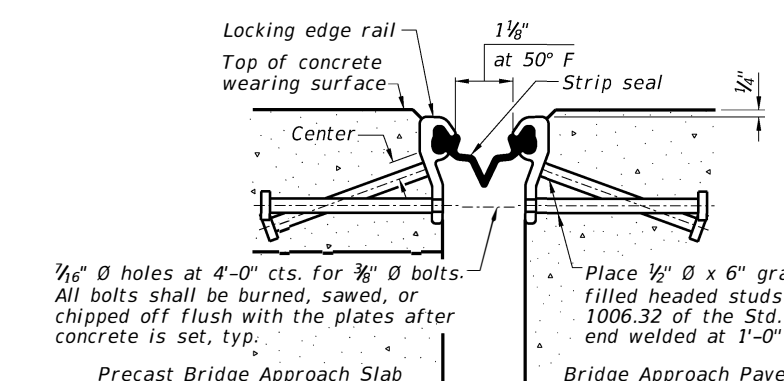
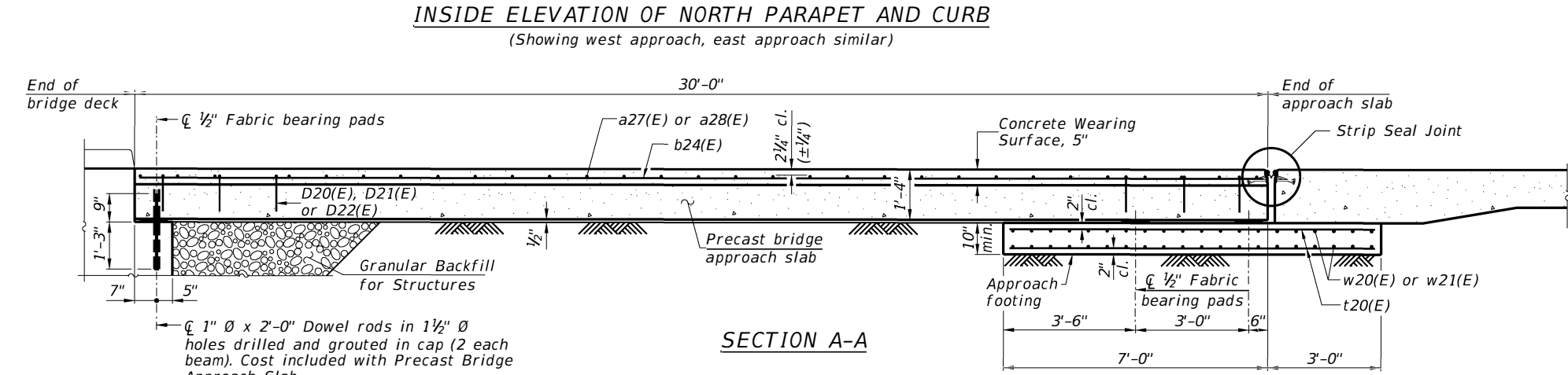
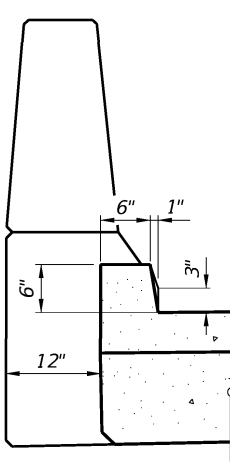
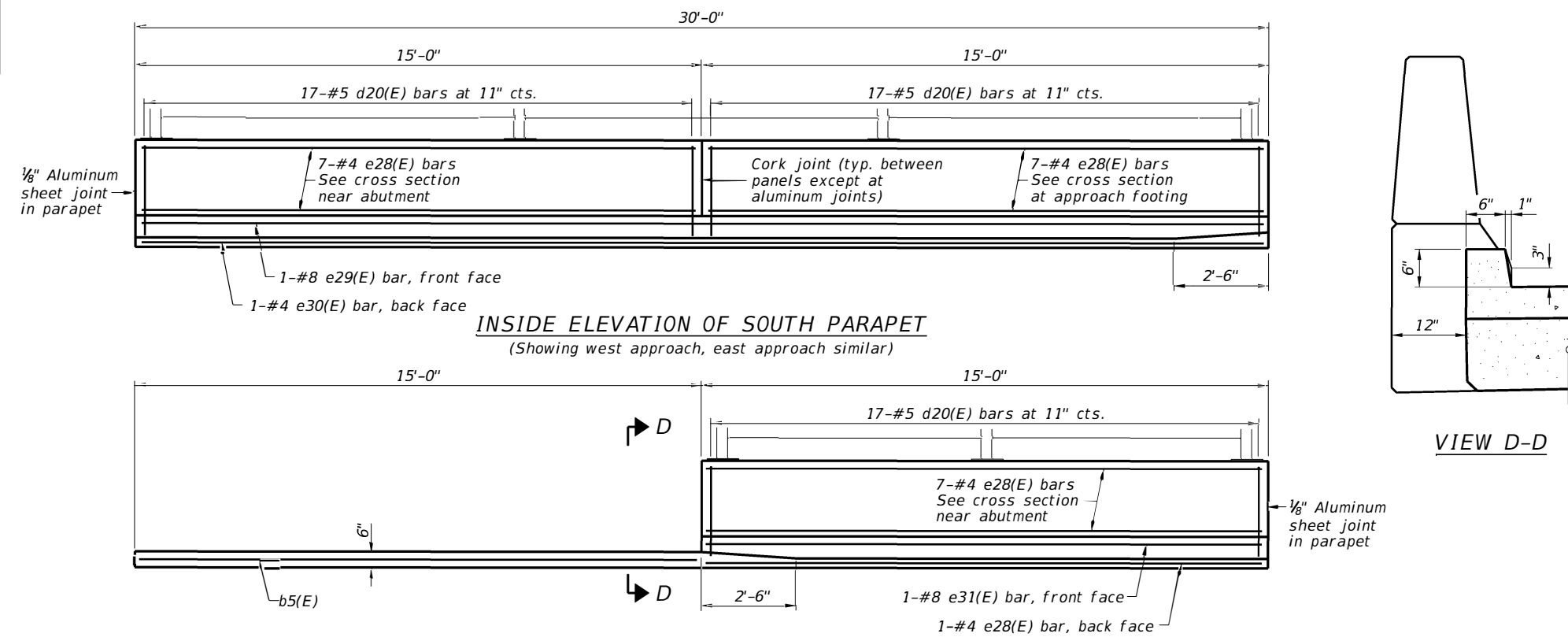
DECATUR (317) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**PRECAST BRIDGE APPROACH SLAB**  
 STRUCTURE NO. 058-3408  
 SHEET NO. 23 OF 40 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	120
CONTRACT NO. 95912				
ILLINOIS FED. AID PROJECT				



FILE NAME = I:\Municipalities\Mecon County\6487 Rees Bridge Road Bridge Replacement\CADD\Structural\WestBridge\Approach\slab.dgn



**BILL OF MATERIAL-TWO APPROACHES**

Bar	No.	Size	Length	Shape
a27(E)	124	#4	24'-10"	—
a28(E)	62	#4	35'-7"	—
a29(E)	62	#4	7'-5"	—
b24(E)	170	#4	29'-8"	—
b25(E)	6	#4	14'-8"	—
d20(E)	68	#5	5'-7"	U
d23(E)	68	#5	5'-11"	U
e28(E)	44	#4	14'-8"	—
e29(E)	2	#8	29'-8"	—
e30(E)	2	#4	29'-8"	—
e31(E)	2	#8	14'-8"	—
t20(E)	336	#4	9'-8"	—
w20(E)	80	#5	35'-3"	—
w21(E)	160	#5	25'-5"	—
Concrete Superstructure			Cu. Yd.	10.5
Concrete Structures			Cu. Yd.	82.3
Reinforcement Bars, Epoxy Coated			Pound	18,140
Precast Bridge Approach Slab			Sq. Ft.	4800
Concrete Wearing Surface, 5"			Sq. Yd.	558
Preformed Joint Strip Seal			Foot	167
Bridge Deck Grooving			Sq. Yd.	454
Protective Coat			Sq. Yd.	578

**Notes:**

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.

Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The strip seal shall extend 6" beyond the edge of the approach slab on each end. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet concrete shall be paid for as Concrete Superstructure.

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 40.

(Beams: 36" min. width; 72" max. width)

(Sheet 6 of 6)

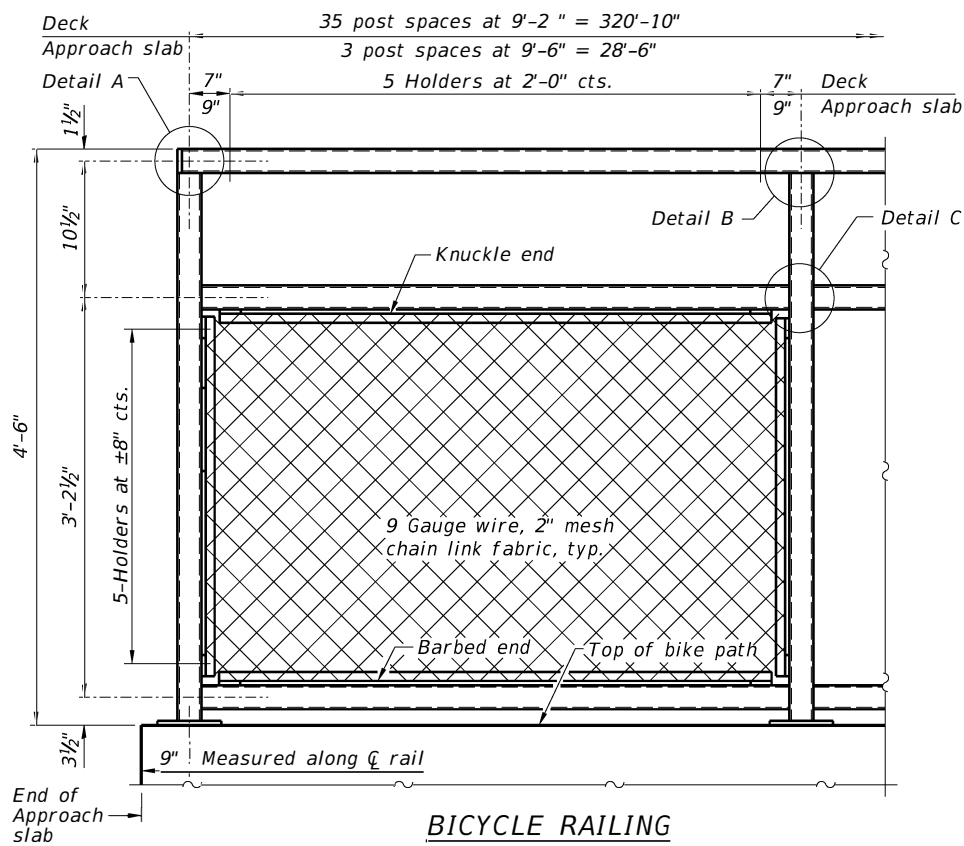
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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

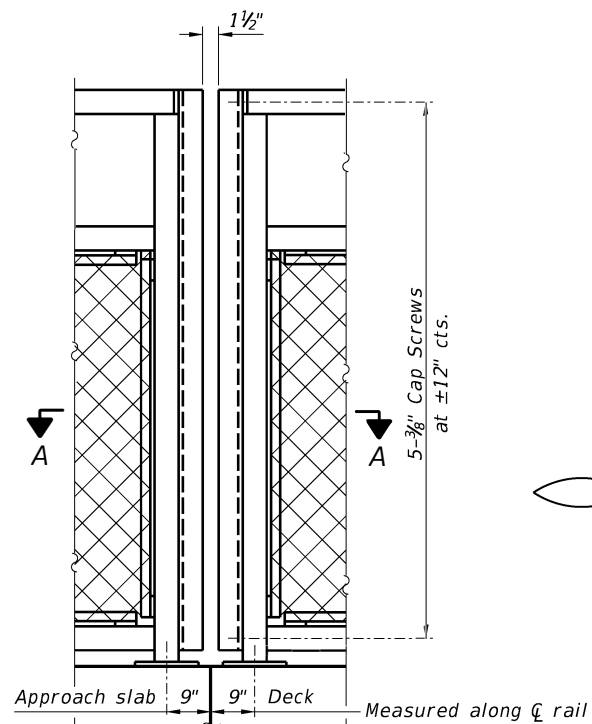
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**PRECAST BRIDGE APPROACH SLAB**  
**STRUCTURE NO. 058-3408**  
SHEET NO. 24 OF 40 SHEETS

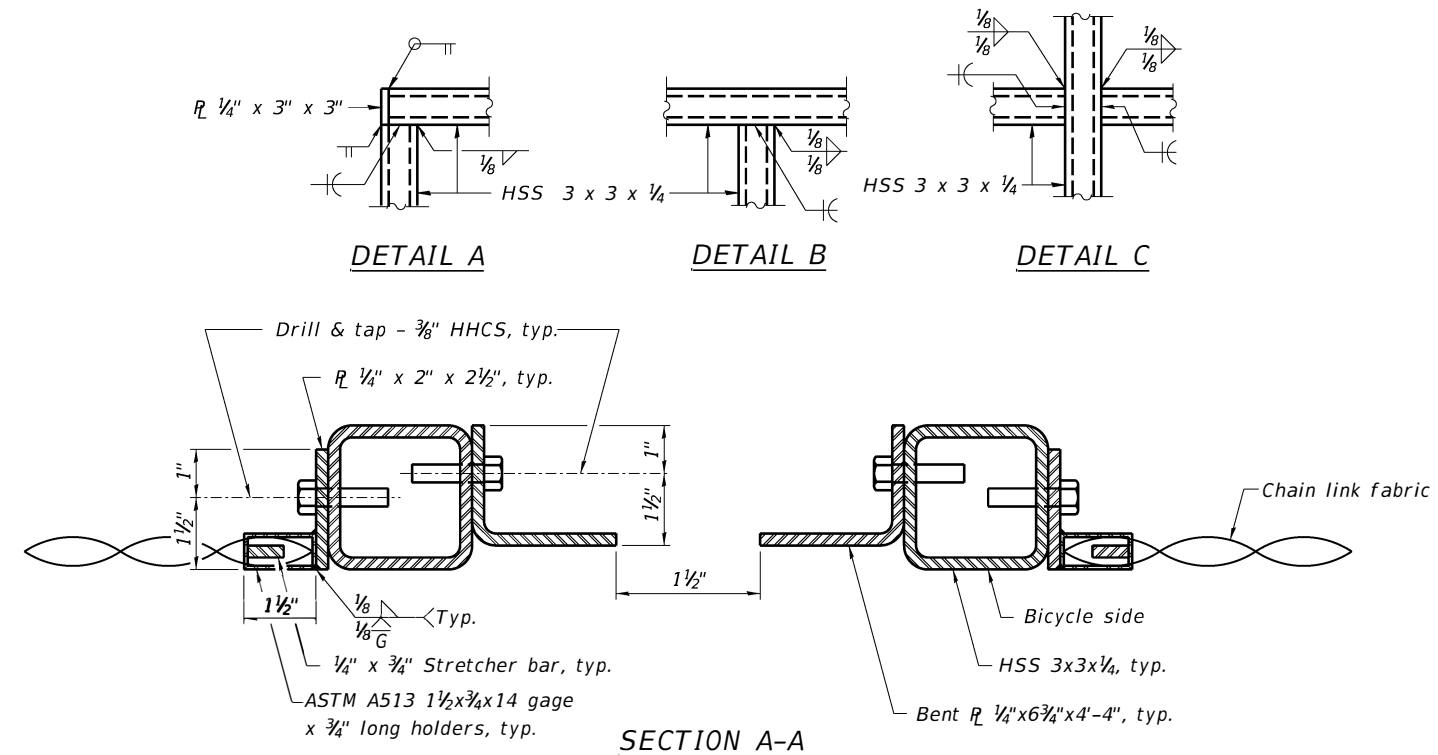
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7355	12-00251-00-BR	MACON	196	121
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	



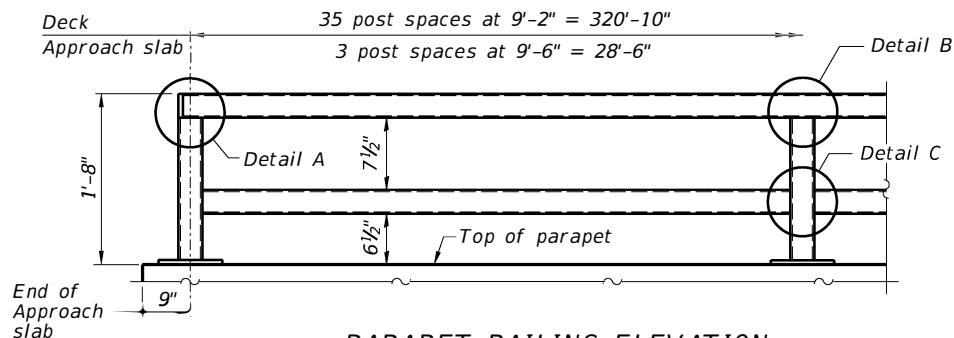
**BICYCLE RAILING**



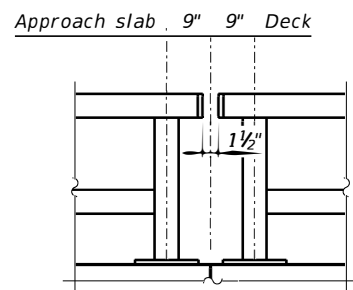
**BICYCLE RAILING AT END OF DECK**



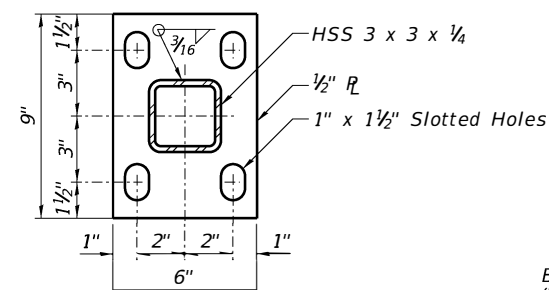
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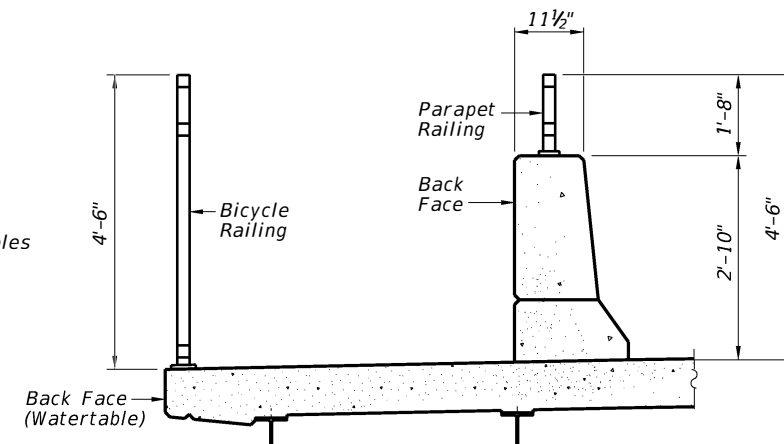
**PARAPET RAILING ELEVATION**



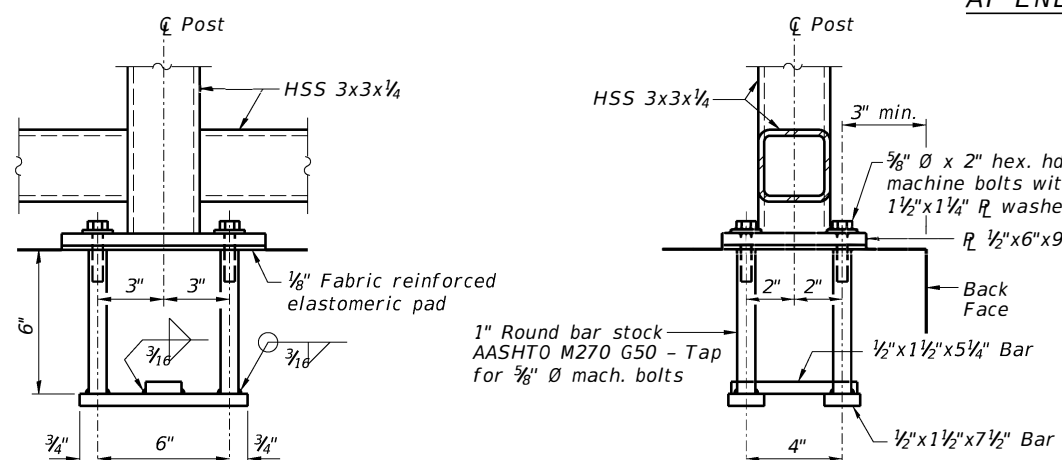
**PARAPET RAILING ELEVATION AT END OF DECK**



**BASE P**

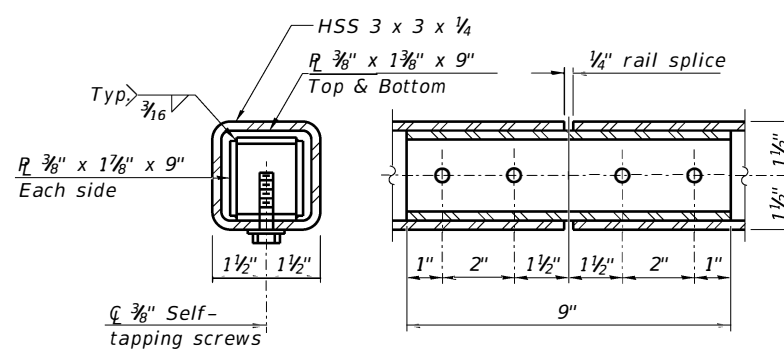


**SECTION THRU DECK**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the CONTRACTOR has the option of drilling and setting 3/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**RAIL SPLICE**

The chain link fabric shall be black coated vinyl and conform to the requirements of Article 1006.27(a)(1)d of the Standard Specifications.

All posts, railing, splices, anchor devices and bent plates shall be painted using one of the two following paint systems:

1. Inorganic Zinc-rich/waterborne Acrylic for shop and field applications.
2. Organic Zinc-rich/Epoxy/Urethane for full shop application.

Finish paint color shall be N1-Black. See Article 506 "Cleaning and Painting New Steel Structures".

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	378
Parapet Railing	Foot	378

Notes:  
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.  
CVN testing may be omitted for the bicycle railing.

FILE NAME = I:\Municipalities\Macon County\6487 Rees Bridge Road Bridge Replacement\CADD\Structural\WestBridge\BicycleRail.dgn

R-29 2-17-2017 (10'-0" Maximum Post Spacing)

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CONSULTING ENGINEERS

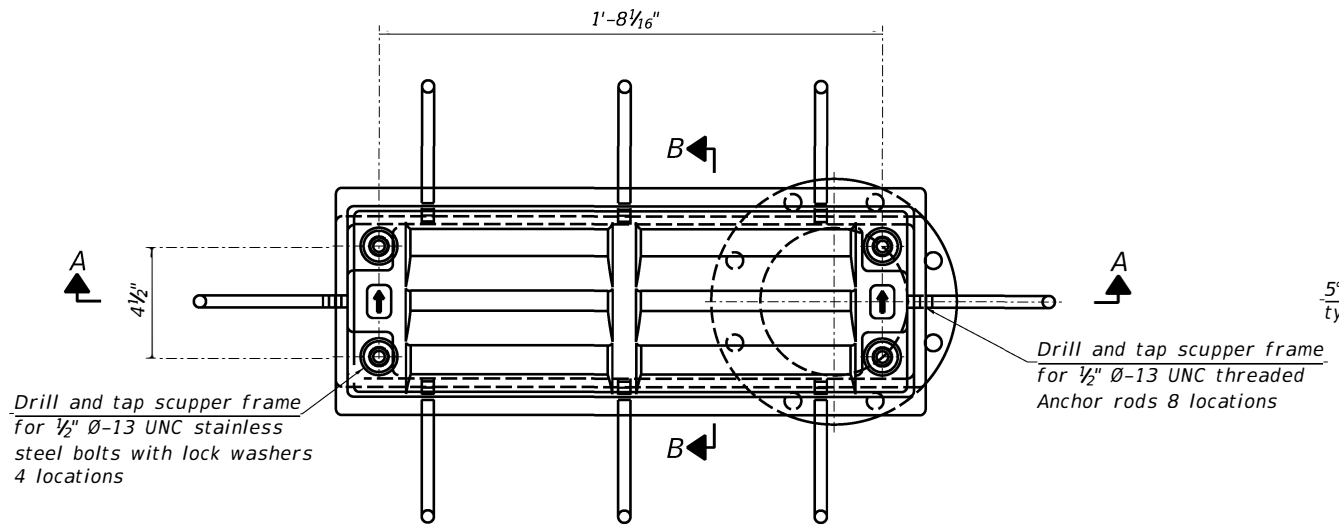
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**BICYCLE RAILING**  
**STRUCTURE NO. 058-3408**

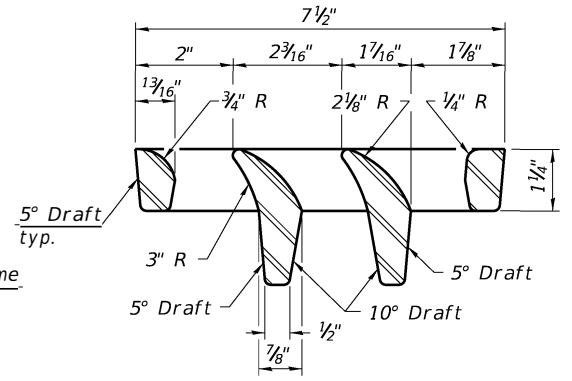
SHEET NO. 25 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				

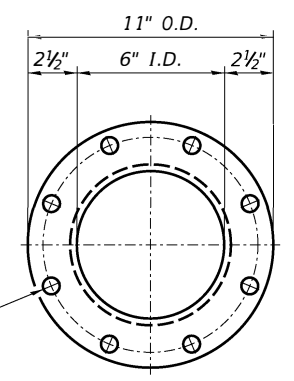
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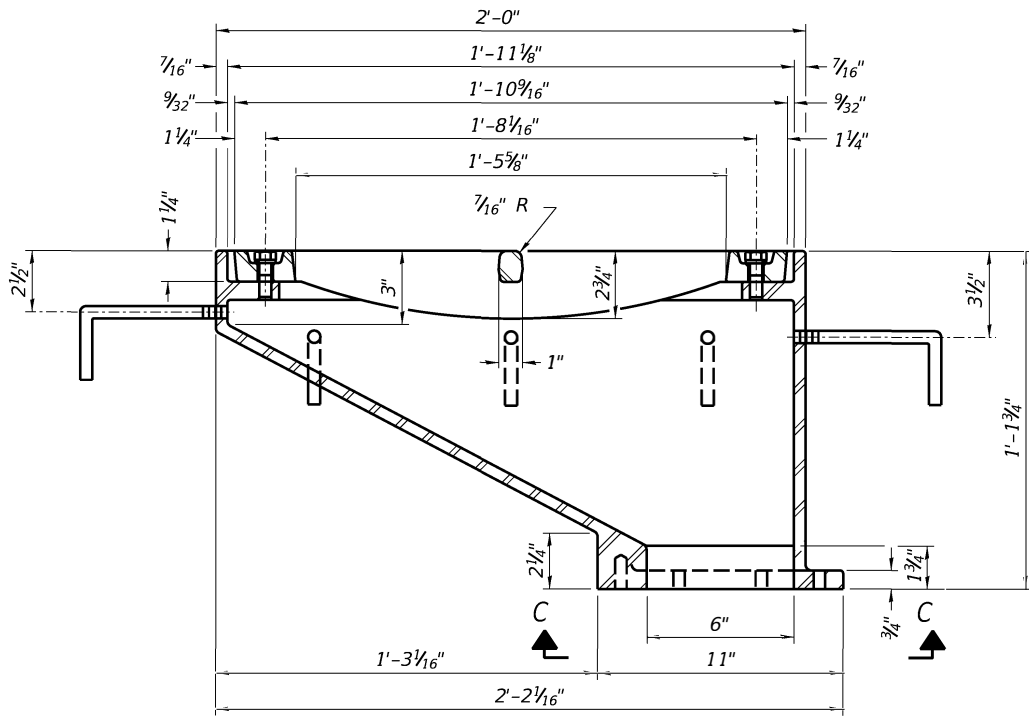
PLAN



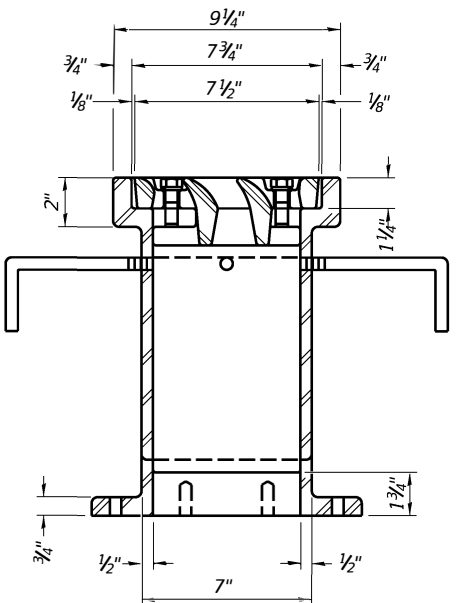
VANE GRATE DETAIL



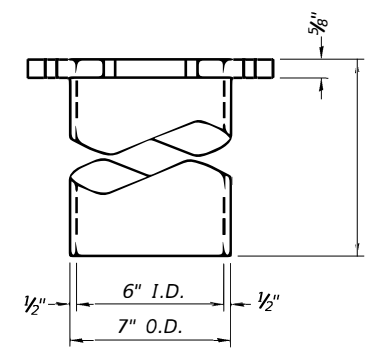
Notes:  
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.  
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.  
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.  
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.  
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.  
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet of .  
 The CONTRACTOR shall take appropriate measures to assure that Protective Coat is not applied to the scupper.  
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-12.



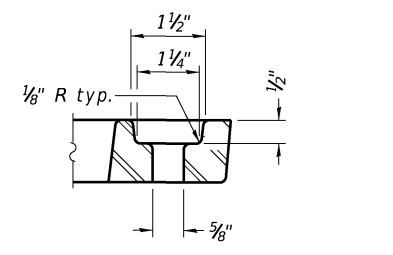
SECTION A-A  
 See sheet of for scupper location relative to parapet.



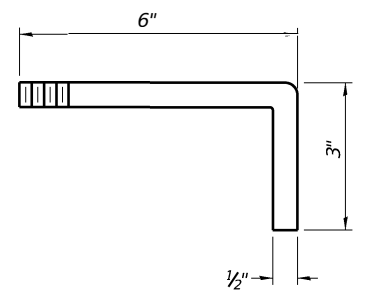
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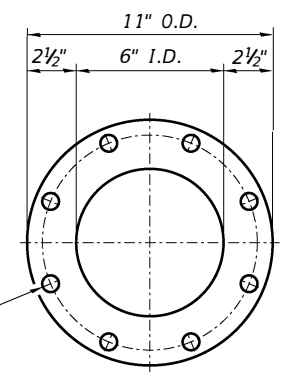
DOWNSPOUT



GRATE BOLT HOLE DETAIL



ANCHOR ROD DETAIL



VIEW C-C

Drill and tap 8 holes for 3/4" Ø-13 UNC bolts on 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	14

DS-12

1-1-2020

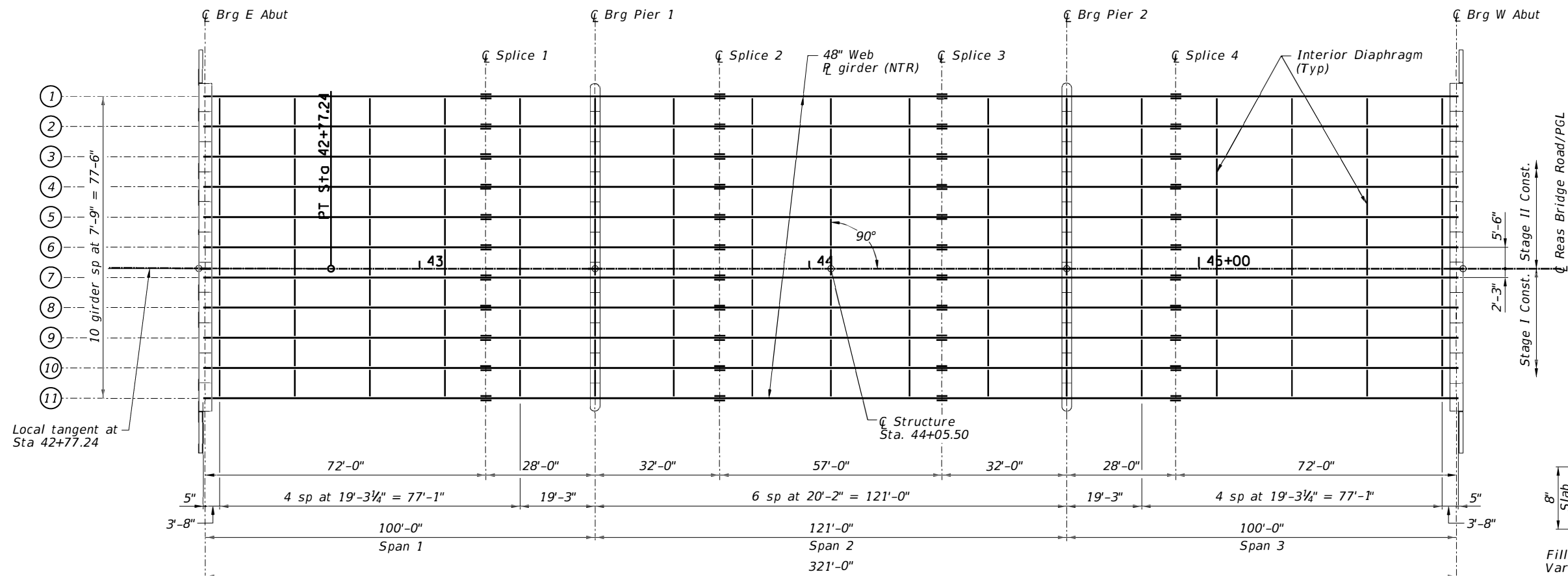
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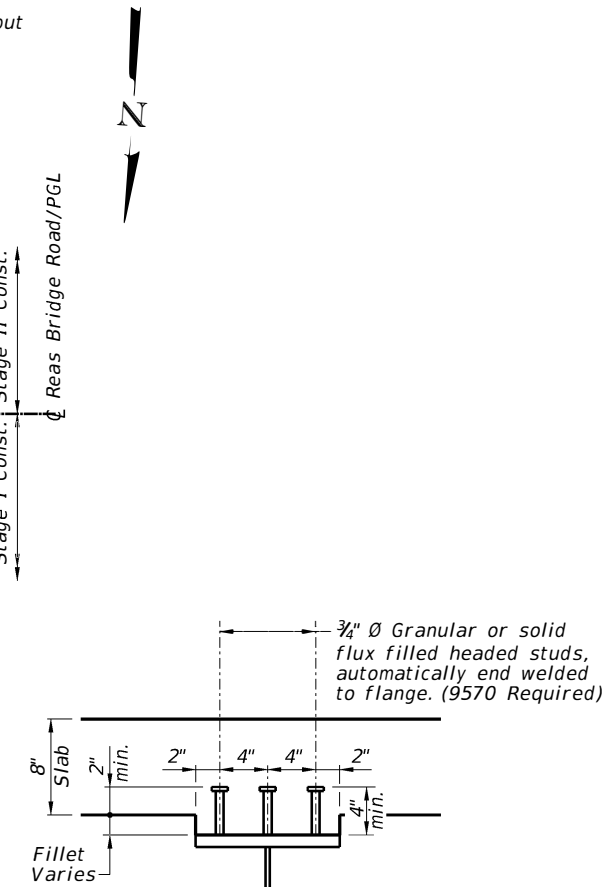
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**DRAINAGE SCUPPER, DS-12**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 26 OF 40 SHEETS

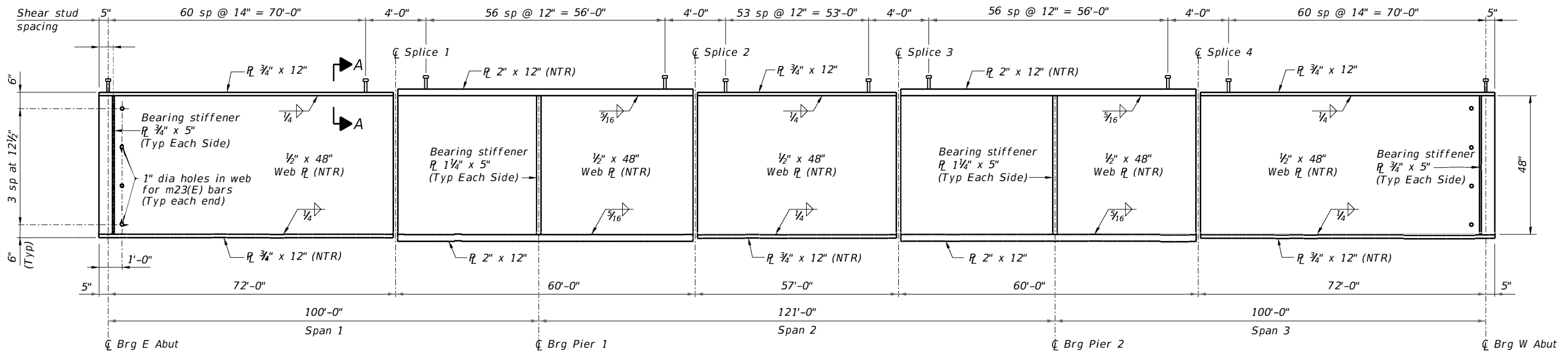
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7355	12-00251-00-BR	MACON	196	123
CONTRACT NO. 95912				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



SECTION A-A



GIRDER ELEVATION

**NOTES:**  
 All girders, splice plates, diaphragms and bearing stiffeners shall be AASHTO M270 Grade 50W.  
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.  
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

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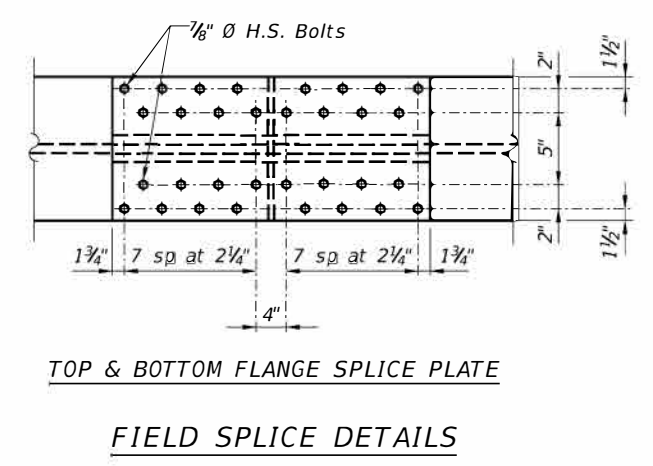
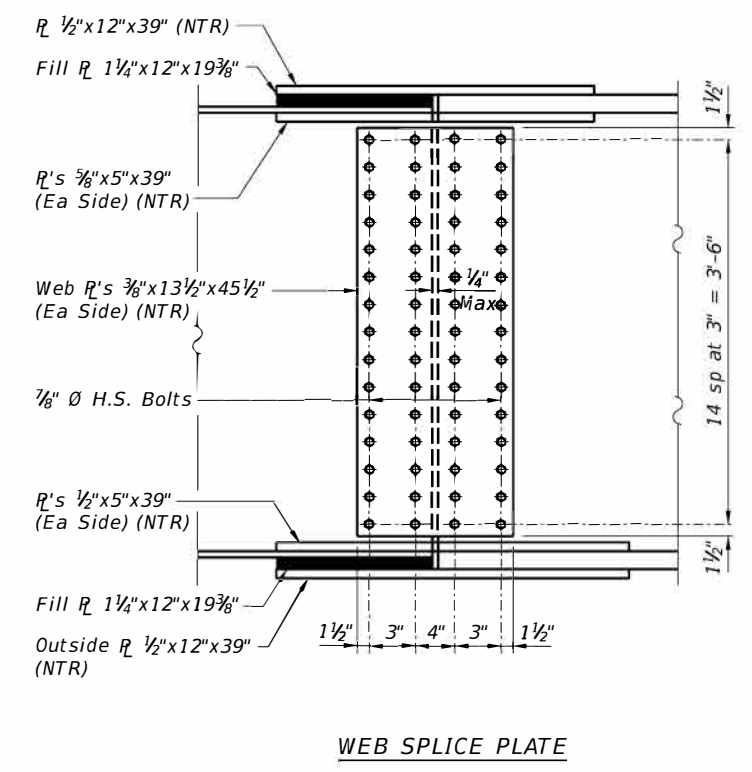
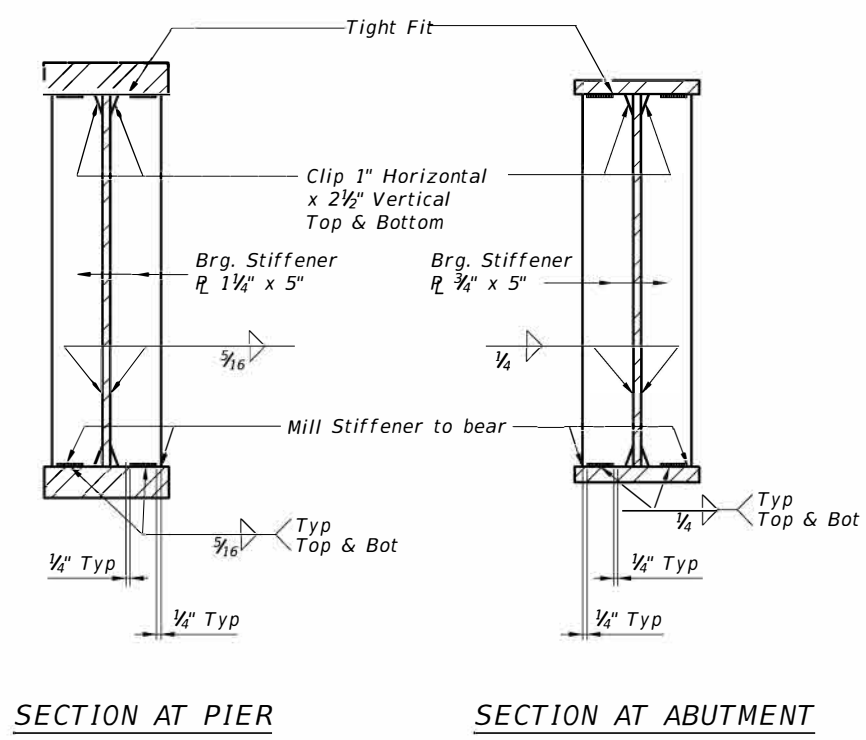
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**CHASTAIN & ASSOCIATES LLC**  
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 184-001397

**FRAMING PLAN AND DETAILS**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 27 OF 40 SHEETS

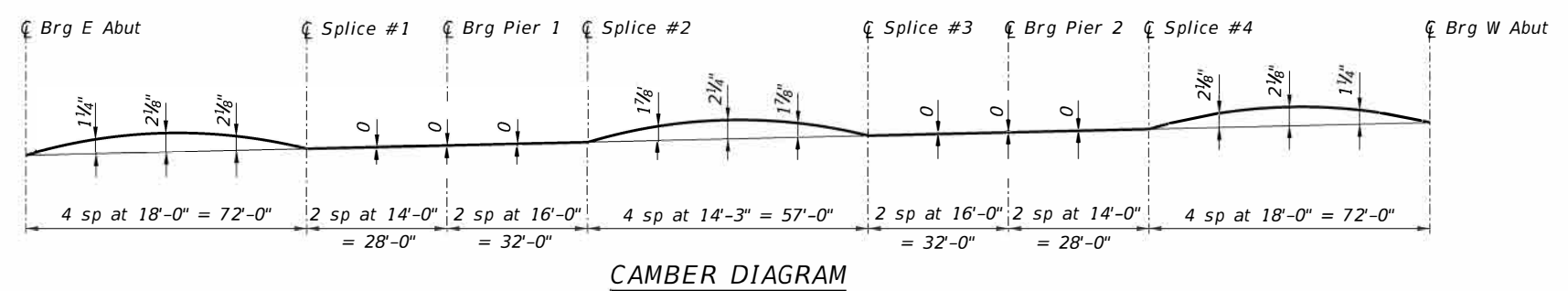
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7355	12-00251-00-BR	MACON	196	124
<b>CONTRACT NO. 95912</b>				
<small>ILLINOIS FED. AID PROJECT</small>				



**\*TOP OF WEB ELEVATIONS**

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11
CL Brg at E. Abut	628.69	628.81	628.96	629.12	629.28	629.45	629.51	629.35	629.19	629.03	628.87
CL Splice 1	629.15	629.27	629.42	629.58	629.74	629.90	629.97	629.81	629.65	629.49	629.33
CL Brg at Pier 1	629.34	629.47	629.62	629.78	629.94	630.10	630.17	630.01	629.85	629.68	629.52
CL Splice 2	629.57	629.69	629.84	630.00	630.16	630.33	630.39	630.23	630.07	629.91	629.75
CL Splice 3	630.00	630.12	630.27	630.44	630.60	630.76	630.83	630.67	630.50	630.34	630.18
CL Brg at Pier 2	630.26	630.39	630.54	630.70	630.86	631.02	631.09	630.93	630.77	630.60	630.44
CL Splice 4	630.49	630.61	630.76	630.93	631.09	631.25	631.32	631.16	630.99	630.83	630.67
CL Brg at W. Abut	631.13	631.25	631.40	631.56	631.72	631.88	631.95	631.79	631.63	631.47	631.31

\* For fabrication only

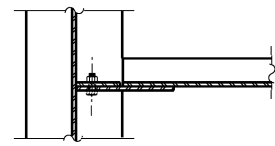


**NOTES**  
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

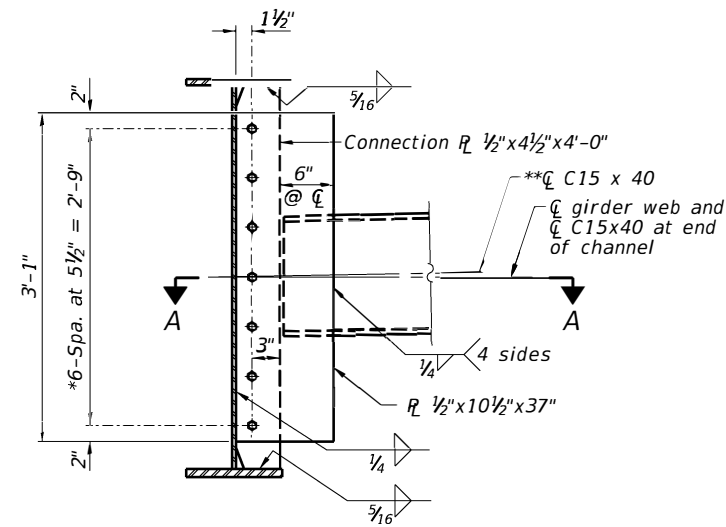
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PLOT DATE = 1/25/2022	DATE	REVISED -				ILLINOIS FED. AID PROJECT				

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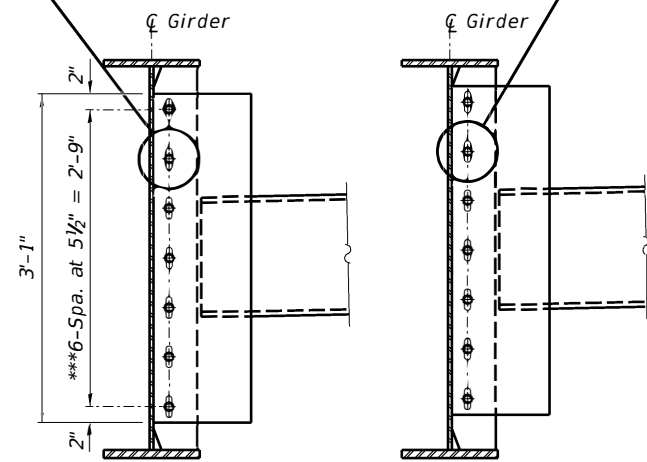


SECTION A-A



**INTERIOR DIAPHRAGM**

Note:  
 Two hardened washers required for each set of oversized holes.  
 \*3/4" Ø HS bolts, 1 1/16" Ø holes  
 \*\*Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. the alternate, if utilized, shall be provided at no additional cost to the Department.



INITIAL BOLT ERECTION POSITION  
 FINAL ERECTION POSITION AFTER STAGE II DECK POUR

**DIAPHRAGM**

\*\*\* 3/4" Ø HS bolts on the north side of Girder 6 with 1 1/16"x1 7/8" vertical slotted holes in both connection plates. Bolts in slotted holes shall be finger tightened until the second stage pour is completed. Position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The slotted holes in the connection plates and bearing stiffeners shall be positioned as shown to allow the bolts to move to the final erection position under deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the girders.

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PLOT DATE = 1/25/2022	DATE	REVISED -

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**FRAMING DETAILS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 29 OF 40 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	126
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				

FILE NAME = I:\Municipalities\Mecon County\6487 Rees Bridge Road Bridge Replacement\CADD\Structural\WestBridge\momenttable.dgn

INTERIOR GIRDER MOMENT TABLE						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
<i>I<sub>s</sub></i>	(in <sup>4</sup> )	15303	34624	15303	34624	15303
<i>I<sub>c</sub>(n)</i>	(in <sup>4</sup> )	41022	73583	41022	73583	41022
<i>I<sub>c</sub>(3n)</i>	(in <sup>4</sup> )	31038	55356	31038	55356	31038
<i>I<sub>c</sub>(cr)</i>	(in <sup>4</sup> )	-	-	-	-	-
<i>S<sub>s</sub></i>	(in <sup>3</sup> )	618.3	1331.7	618.3	1331.7	618.3
<i>S<sub>c</sub>(n)</i>	(in <sup>3</sup> )	909.4	1696.6	909.4	1696.6	909.4
<i>S<sub>c</sub>(3n)</i>	(in <sup>3</sup> )	831.7	1568.6	831.7	1568.6	831.7
<i>S<sub>c</sub>(cr)</i>	(in <sup>3</sup> )	-	-	-	-	-
<i>DC1</i>	(k/')	0.95	1.07	0.95	1.07	0.95
<i>MDC1</i>	('k)	605	1440	389	1440	605
<i>DC2</i>	(k/')	0.26	0.26	0.26	0.26	0.26
<i>MDC2</i>	('k)	168	362	114	362	168
<i>DW</i>	(k/')	0.39	0.39	0.39	0.39	0.39
<i>MDW</i>	('k)	250	540	170	540	250
<i>LLDF</i>		0.585	0.605	0.557	0.605	0.585
<i>M<sub>ℓ</sub> + IM</i>	('k)	1289	1742	1164	1742	1289
<i>M<sub>u</sub> (Strength I)</i>	('k)	3597	6111	2921	6111	3597
<i>∅f M<sub>n</sub></i>	('k)	4394	6333	4580	6333	4394
<i>f<sub>s</sub> DC1</i>	(ksi)	11.7	13.0	7.5	13.0	11.7
<i>f<sub>s</sub> DC2</i>	(ksi)	2.4	2.8	1.6	2.8	2.4
<i>f<sub>s</sub> DW</i>	(ksi)	3.6	4.1	2.5	4.1	3.6
<i>f<sub>s</sub> (ℓ+IM)</i>	(ksi)	17.0	12.3	15.4	12.3	17.0
<i>f<sub>s</sub> (Service II)</i>	(ksi)	39.9	35.9	31.6	35.9	39.9
<i>0.95Rh F<sub>yf</sub></i>	(ksi)	47.5	47.5	47.5	47.5	47.5
<i>f<sub>s</sub> (Total)(Strength I)</i>	(ksi)	-	-	-	-	-
<i>∅f F<sub>n</sub></i>	(ksi)	-	-	-	-	-
<i>V<sub>f</sub></i>	(k)	30.3	33.8	23.9	33.8	30.3

INTERIOR GIRDER REACTION TABLE HL93 Loading				
	Abutments		Pier 1 & Pier 2	
	Interior	Exterior	Interior	Exterior
<i>LLDF</i>	0.797	0.697	0.797	0.697
<i>OCF</i>	-	1.000	-	-
<i>RDC1</i> (k)	35.5	32.3	127.2	116.1
<i>RDC2</i> (k)	9.4	5.4	32.4	18.7
<i>RDW</i> (k)	14.0	10.1	48.3	35.0
<i>R<sub>ℓ</sub> + IM</i> (k)	90.0	78.7	175.0	153.0
<i>RTotal</i> (k)	148.8	126.5	382.8	322.6

*I<sub>s</sub>, S<sub>s</sub>*: Non-composite moment of inertia and section modulus of the steel section used for computing *f<sub>s</sub>*(Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

*I<sub>c</sub>(n), S<sub>c</sub>(n)*: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f<sub>s</sub>*(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).

*I<sub>c</sub>(3n), S<sub>c</sub>(3n)*: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f<sub>s</sub>*(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

*I<sub>c</sub>(cr), S<sub>c</sub>(cr)*: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f<sub>s</sub>* (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

*DC1*: Un-factored non-composite dead load (kips/ft.).  
*MDC1*: Un-factored moment due to non-composite dead load (kip-ft.).  
*DC2*: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
*LLDF*: Live Load distribution factor  
*MDC2*: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
*DW*: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
*MDW*: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
*M<sub>ℓ</sub> + IM*: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
*M<sub>u</sub> (Strength I)*: Factored design moment (kip-ft.).  
 $1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{\ell} + IM$   
*∅f M<sub>n</sub>*: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).  
*f<sub>s</sub> DC1*: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
*MDC1 / S<sub>nc</sub>*  
*f<sub>s</sub> DC2*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
*MDC2 / S<sub>c</sub>(3n) or MDC2 / S<sub>c</sub>(cr) as applicable.*  
*f<sub>s</sub> DW*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
*MDW / S<sub>c</sub>(3n) or MDW / S<sub>c</sub>(cr) as applicable.*  
*f<sub>s</sub> (ℓ+IM)*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
 $M_{\ell} + IM / S<sub>c</sub>(n) or MDW / S<sub>c</sub>(cr) as applicable.$   
*f<sub>s</sub> (Service II)*: Sum of stresses as computed below (ksi).  
 $f<sub>s</sub>DC1 + f<sub>s</sub>DC2 + f<sub>s</sub>DW + 1.3 f<sub>s</sub>(ℓ + IM)$   
*0.95RhF<sub>yf</sub>*: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).  
*f<sub>s</sub> (Total)(Strength I)*: Sum of stresses as computed below on non-compact section (ksi).  
 $1.25 (f<sub>s</sub>DC1 + f<sub>s</sub>DC2) + 1.5 f<sub>s</sub>DW + 1.75 f<sub>s</sub>(ℓ + IM)$   
*∅f F<sub>n</sub>*: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).  
*V<sub>f</sub>*: Maximum factored shear range in span computed according to Article 6.10.10.  
*OCF*: Obtuse correction factor

Note:  
*M<sub>ℓ</sub>* and *R<sub>ℓ</sub>* include the effects of centrifugal force and superelevation.

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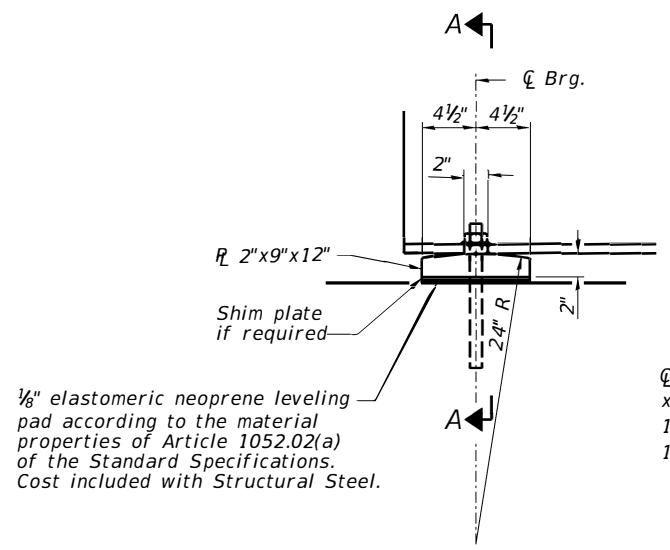
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**MOMENT TABLES**  
**STRUCTURE NO. 058-3408**

SHEET NO. 30 OF 40 SHEETS

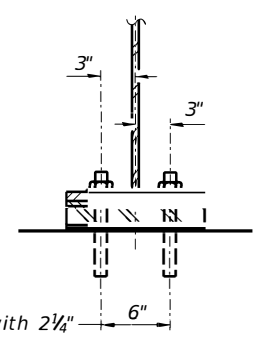
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	127
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				

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1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

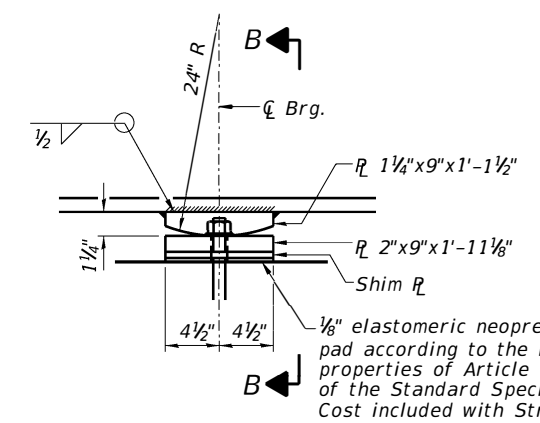
ELEVATION AT ABUTMENT



1"  $\varnothing$  x 12" anchor bolts with 2 1/4" x 2 1/4" x 3/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2"  $\varnothing$  holes in bearing plate.

SECTION A-A

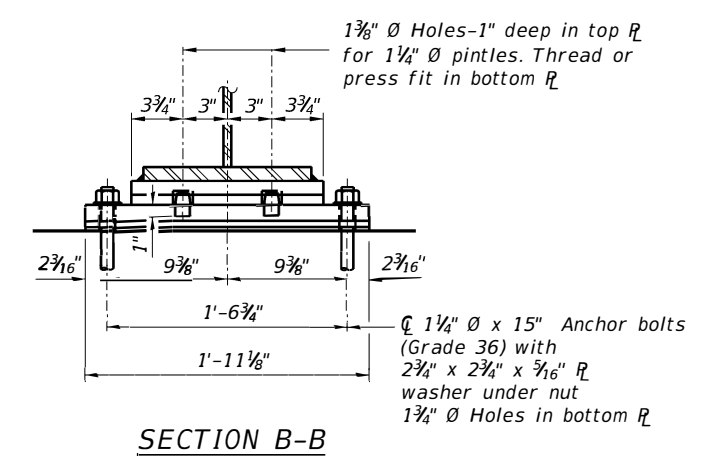
FIXED BEARING



1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT PIER

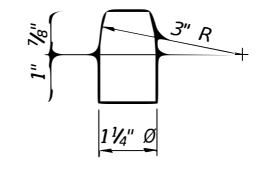
FIXED BEARING



1 3/8"  $\varnothing$  Holes-1" deep in top R for 1 1/4"  $\varnothing$  pintles. Thread or press fit in bottom R

1 1/4"  $\varnothing$  x 15" Anchor bolts (Grade 36) with 2 3/4" x 2 3/4" x 3/16" R washer under nut. 1 3/4"  $\varnothing$  Holes in bottom R

SECTION B-B



PINTLE

Notes:  
 Anchor bolts shall be ASTM F1554 all-thread (or an ENGINEER-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.  
 Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shapes and placed as shown in bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	44
Anchor Bolts, 1 1/4"	Each	44

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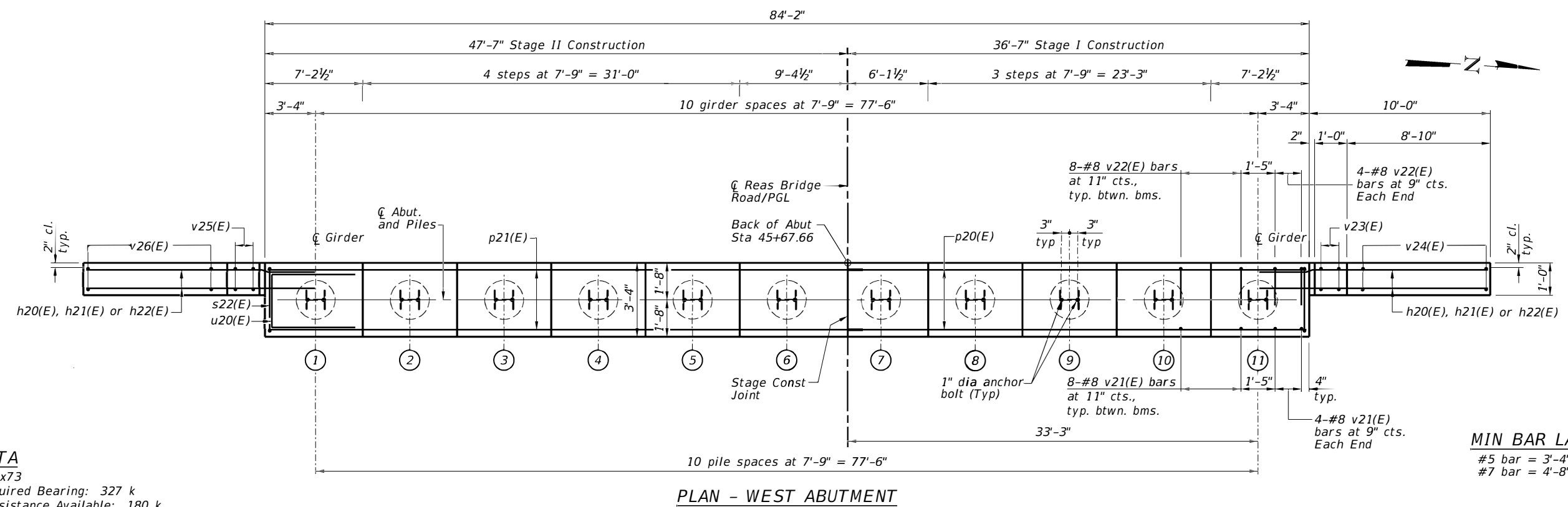
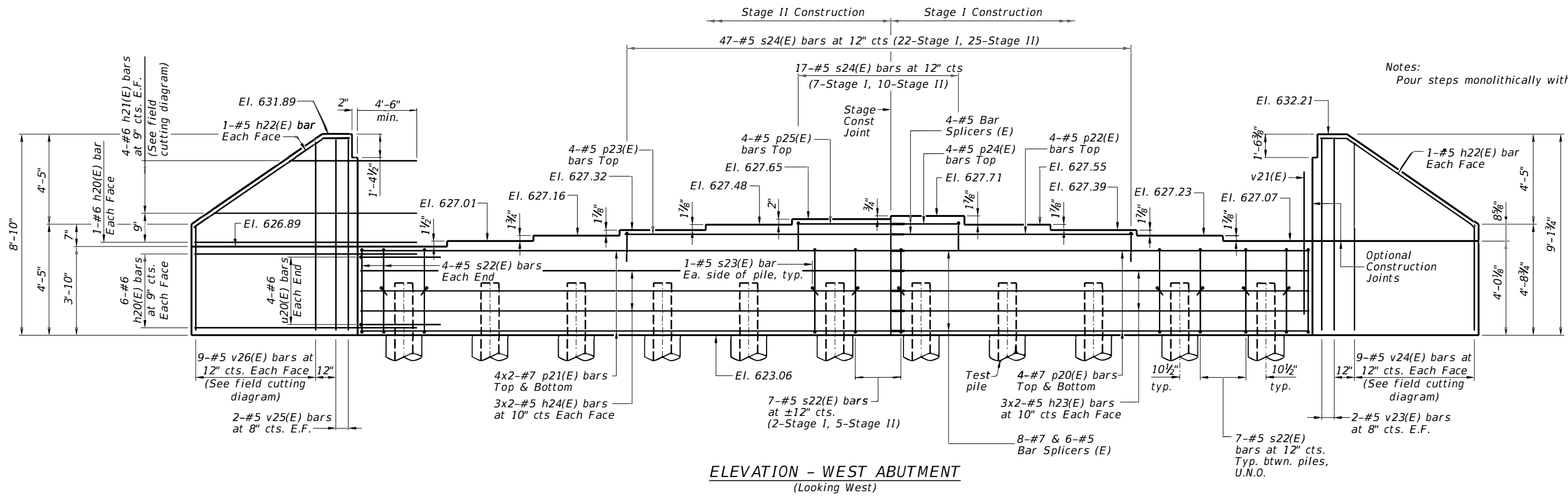
**BEARING DETAILS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 31 OF 40 SHEETS

FAY RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	128
				<b>CONTRACT NO. 95912</b>
ILLINOIS FED. AID PROJECT				







**PILE DATA**  
 Type: HP14x73  
 Nominal Required Bearing: 327 k  
 Factored Resistance Available: 180 k  
 Est. Length: 54'  
 No. Production Piles: 10  
 No. Test Piles: 1

**MIN BAR LAP**  
 #5 bar = 3'-4"  
 #7 bar = 4'-8"

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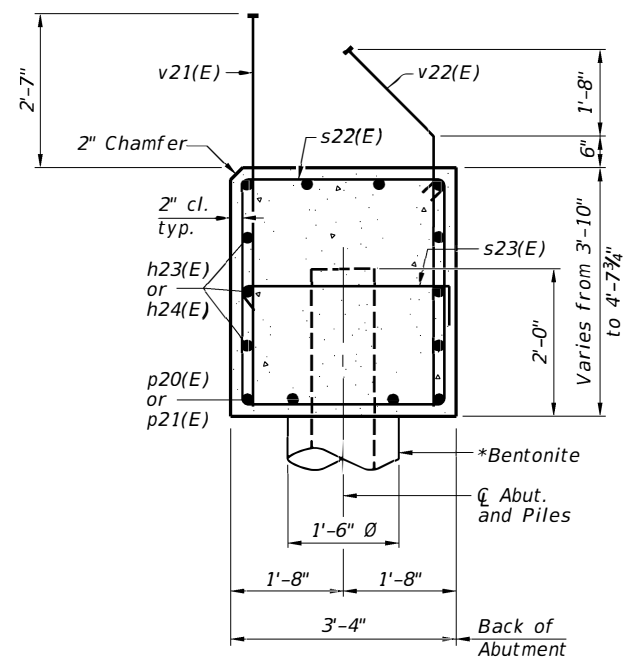
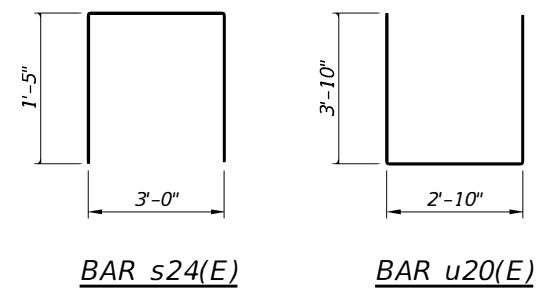
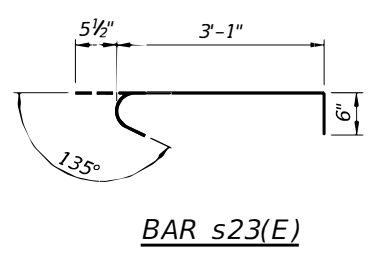
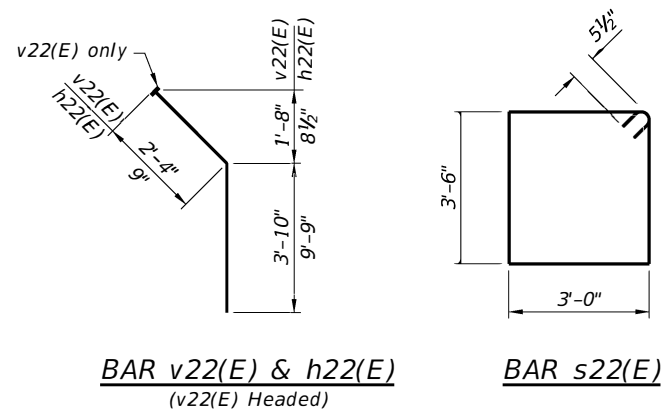
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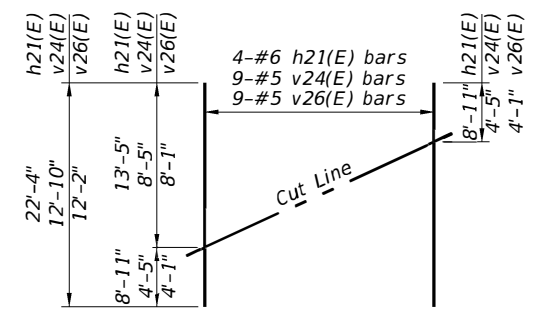
**WEST ABUTMENT**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 33 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	130
CONTRACT NO. 95912				
ILLINOIS FED. AID PROJECT				



**SECTION THRU ABUTMENT**

\*Piles shall be driven into 1'-6" diameter precored holes extending to Elev. 614.00 according to Article 512.09(c) of the Standard Specifications. Holes to be backfilled with Bentonite. Cost included with Driving Piles.



Order h21(E), v24(E) and v26(E) full length. Cut as shown and use remainder of bars in opposite face.

**BILL OF MATERIAL EAST ABUTMENT**

Bar	No.	Size	Length	Shape
h20(E)	28	#6	14'-4"	—
h21(E)	8	#6	22'-4"	—
h22(E)	4	#5	10'-6"	—
h23(E)	12	#5	19'-10"	—
h24(E)	12	#5	25'-4"	—
p20(E)	8	#7	36'-2"	—
p21(E)	16	#7	26'-0"	—
p22(E)	4	#5	21'-4"	—
p23(E)	4	#5	24'-7"	—
p24(E)	4	#5	5'-10"	—
p25(E)	4	#5	9'-1"	—
s22(E)	78	#5	13'-11"	—
s23(E)	22	#5	4'-1"	—
s24(E)	64	#5	5'-10"	—
u20(E)	8	#6	10'-6"	—
v21(E)	88	#8	5'-11"	—
v22(E)	88	#8	6'-2"	—
v23(E)	4	#5	8'-9"	—
v24(E)	9	#5	12'-10"	—
v25(E)	4	#5	8'-5"	—
v26(E)	9	#5	12'-2"	—
Structure Excavation		Cu. Yd.	67	
Concrete Structures		Cu. Yd.	49.4	
Reinforcement Bars, Epoxy Coated		Pound	8060	
Furnishing Steel Piles HP14x73		Foot	710	
Driving Piles		Foot	710	
Test Pile Steel HP14x73		Each	1	

**BILL OF MATERIAL WEST ABUTMENT**

Bar	No.	Size	Length	Shape
h20(E)	28	#6	14'-4"	—
h21(E)	8	#6	22'-4"	—
h22(E)	4	#5	10'-6"	—
h23(E)	12	#5	19'-10"	—
h24(E)	12	#5	25'-4"	—
p20(E)	8	#7	36'-2"	—
p21(E)	16	#7	26'-0"	—
p22(E)	4	#5	21'-4"	—
p23(E)	4	#5	24'-7"	—
p24(E)	4	#5	5'-10"	—
p25(E)	4	#5	9'-1"	—
s22(E)	78	#5	13'-11"	—
s23(E)	22	#5	4'-1"	—
s24(E)	64	#5	5'-10"	—
u20(E)	8	#6	10'-6"	—
v21(E)	88	#8	5'-11"	—
v22(E)	88	#8	6'-2"	—
v23(E)	4	#5	8'-9"	—
v24(E)	9	#5	12'-10"	—
v25(E)	4	#5	8'-5"	—
v26(E)	9	#5	12'-2"	—
Structure Excavation		Cu. Yd.	42	
Concrete Structures		Cu. Yd.	49.4	
Reinforcement Bars, Epoxy Coated		Pound	8060	
Furnishing Steel Piles HP14x73		Foot	540	
Driving Piles		Foot	540	
Test Pile Steel HP14x73		Each	1	

**NOTES**

For details of piles see sheet 38 of 40.  
For details of bar splicers see sheet 39 of 40.  
Bars indicated thus 4x2-#7 etc. indicates 4 lines of bars with 2 lengths per line.

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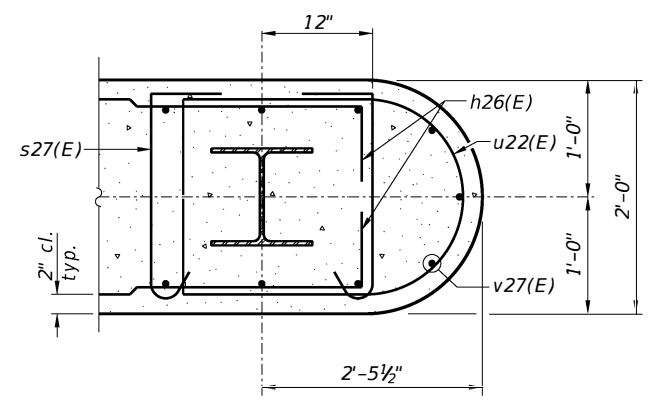
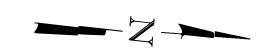
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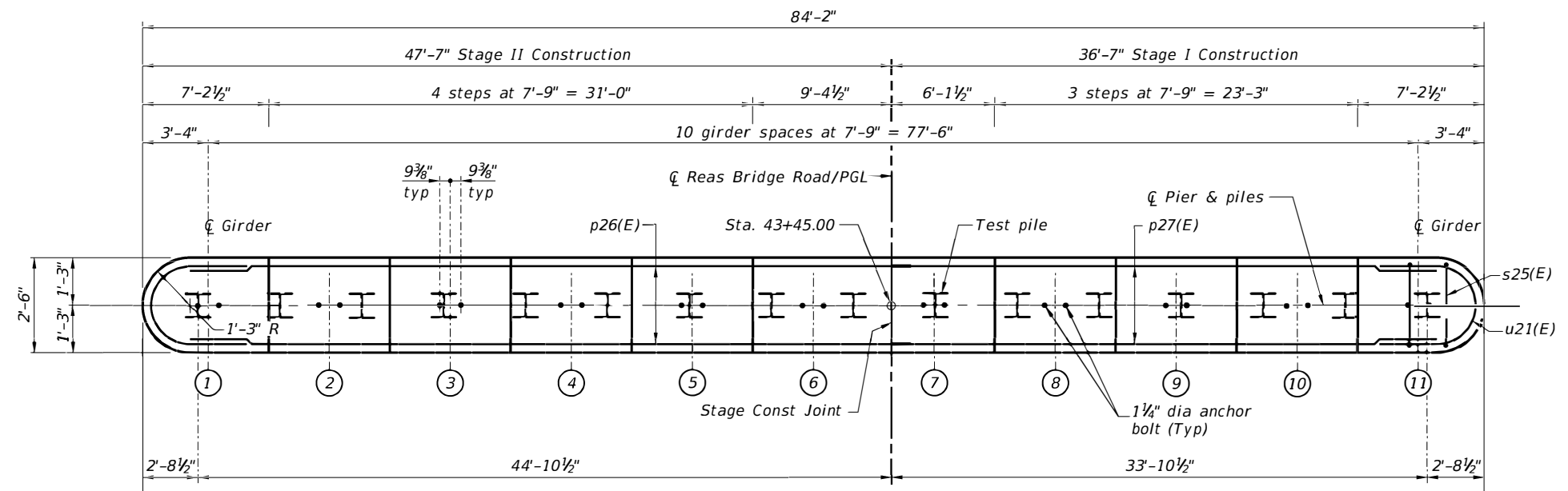
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**ABUTMENT DETAILS**  
**STRUCTURE NO. 058-3408**  
SHEET NO. 34 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	131
<b>CONTRACT NO. 95912</b>				
ILLINOIS FED. AID PROJECT				



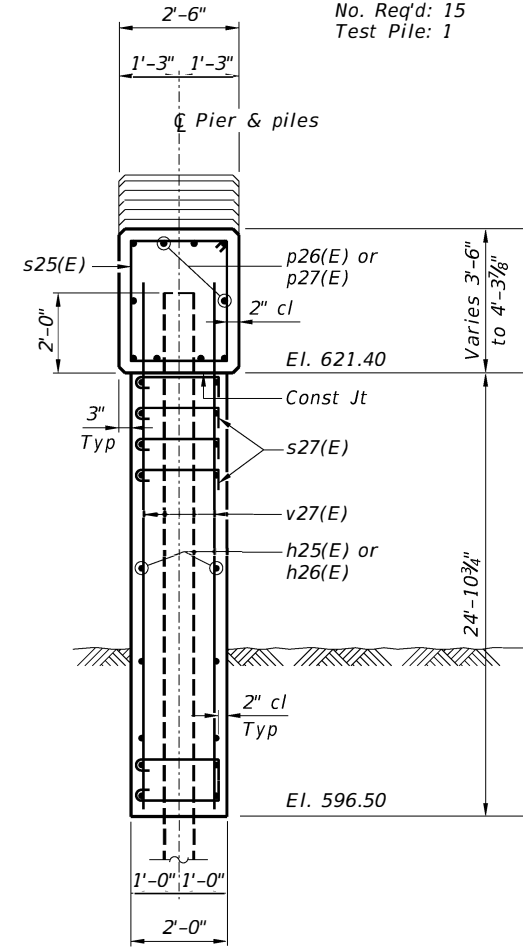
SECTION C-C



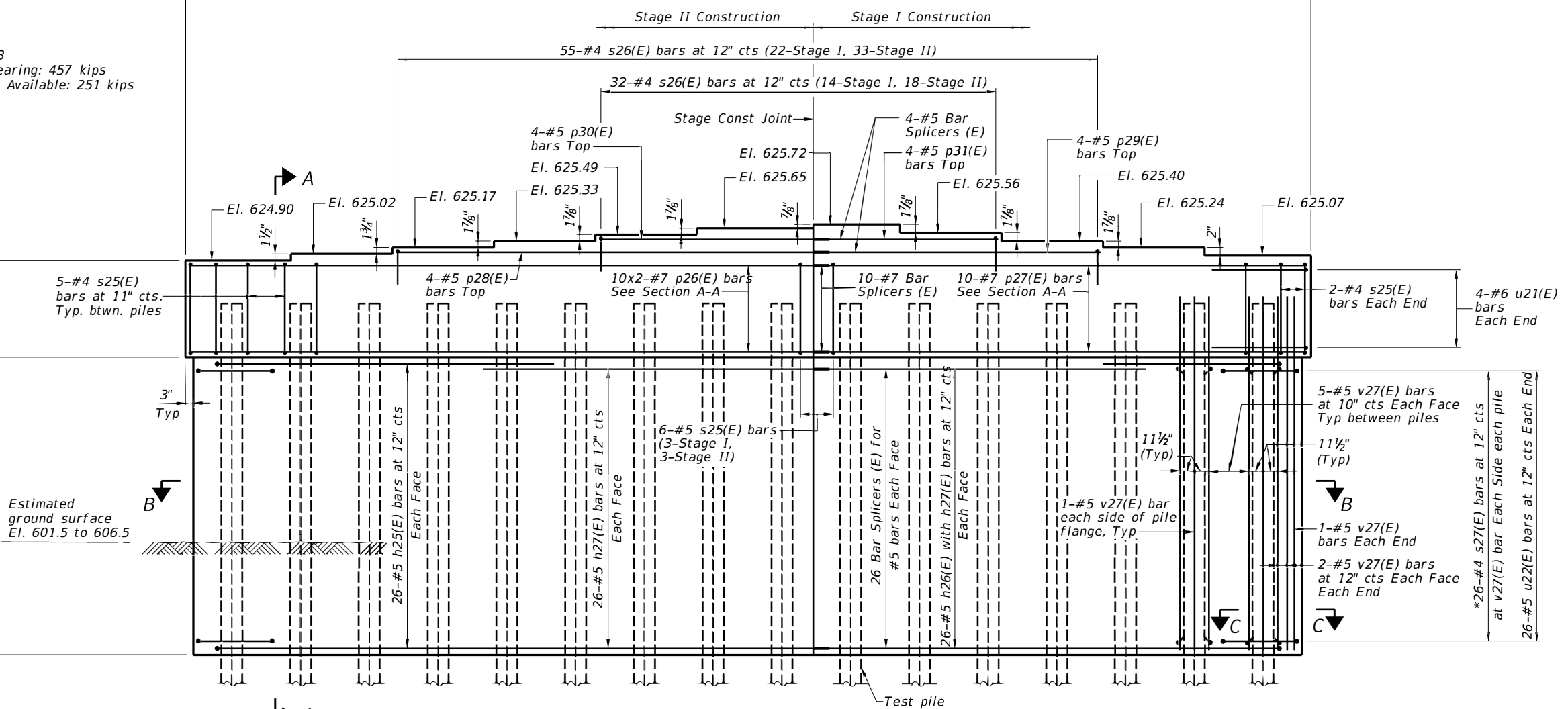
PLAN

**PILE DATA**

Type: Steel HP14x73  
 Nominal Required Bearing: 457 kips  
 Factored Resistance Available: 251 kips  
 Est. Length: 72'  
 No. Req'd: 15  
 Test Pile: 1



SECTION A-A



ELEVATION  
(Looking West)

\*Hook s27(E) bars around h25(E), h26(E) and v27(E) bars.  
 Clear cover for the s27(E) bars will be 1 3/8".

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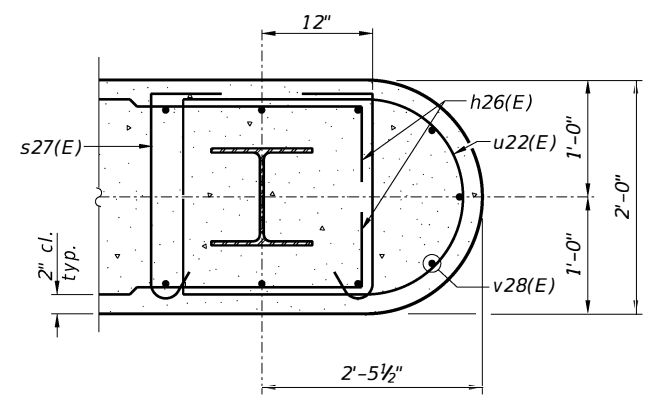
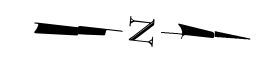
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**PIER 1**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 35 OF 40 SHEETS

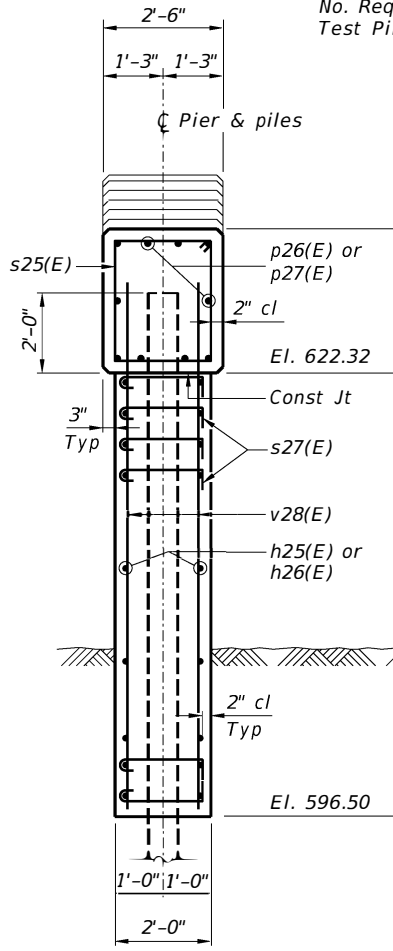
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	132
CONTRACT NO. 95912				
ILLINOIS FED. AID PROJECT				



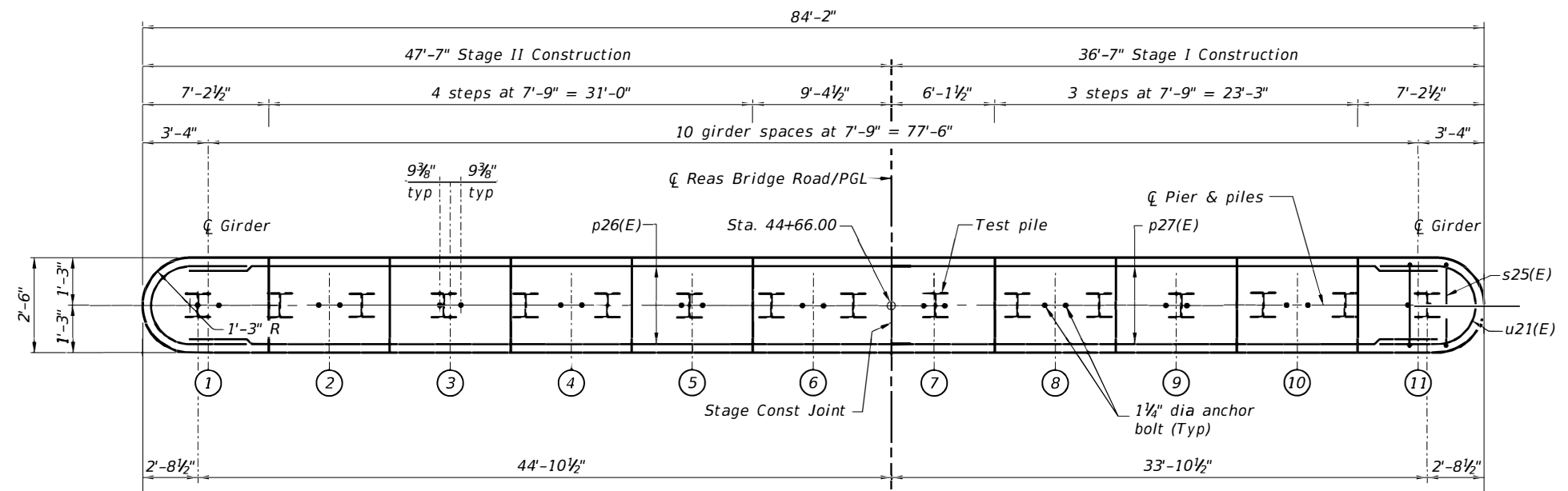
SECTION C-C

**PILE DATA**

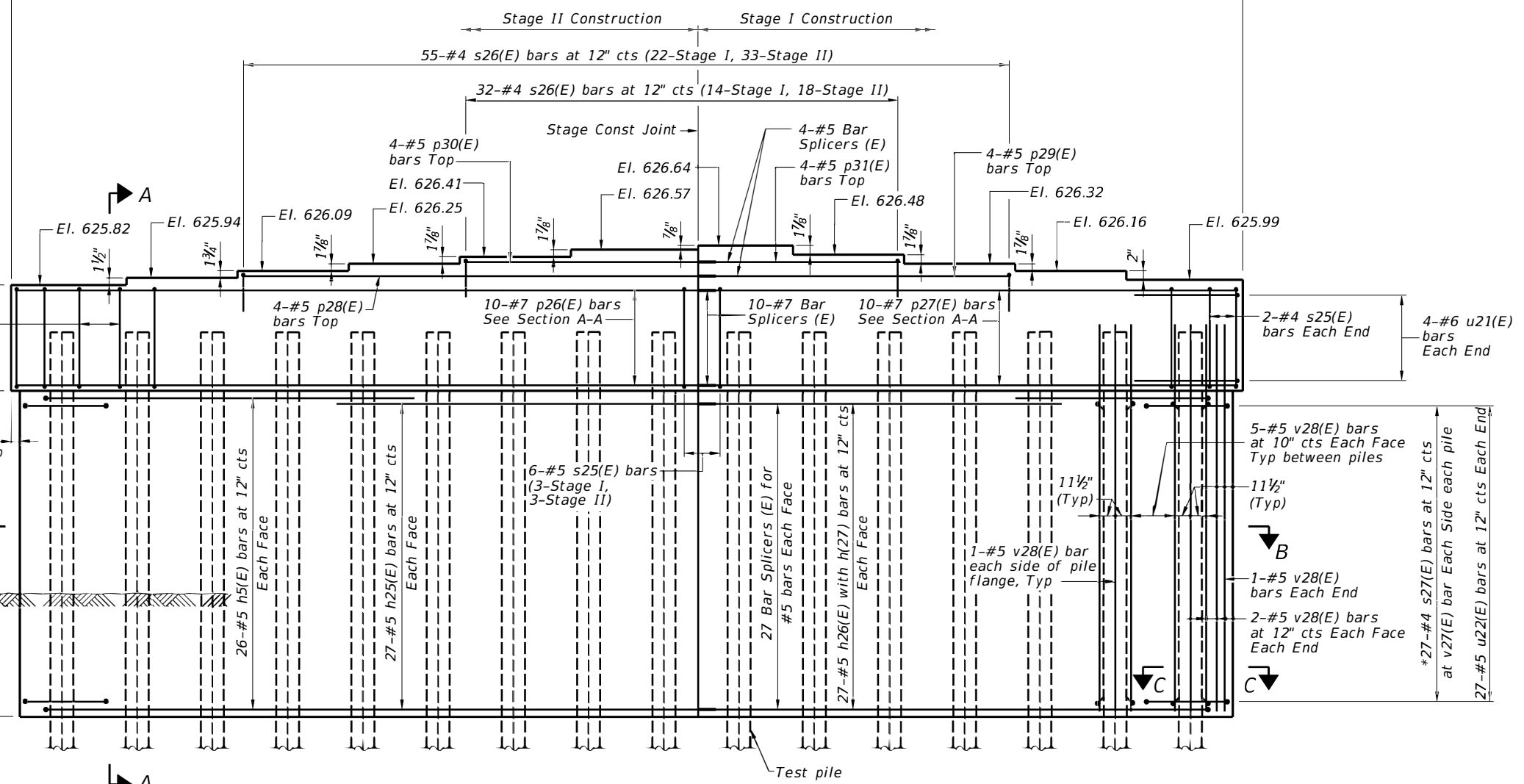
Type: Steel HP14x73  
 Nominal Required Bearing: 412 kips  
 Factored Resistance Available: 251 kips  
 Est. Length: 64'  
 No. Req'd: 15  
 Test Pile: 1



SECTION A-A



PLAN



ELEVATION  
(Looking West)

\*Hook s27(E) bars around h25(E), h26(E) and v28(E) bars.  
 Clear cover for the s27(E) bars will be 1 3/8".

FILE NAME = I:\Municipalities\Macon County\6407 Rees Bridge Replacement\CADD\Structural\WestBridge\piledetail.dgn

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:31:58 AM	DRAWN RLK	REVISED -
PLOT SCALE = 8.0000' / 1"	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

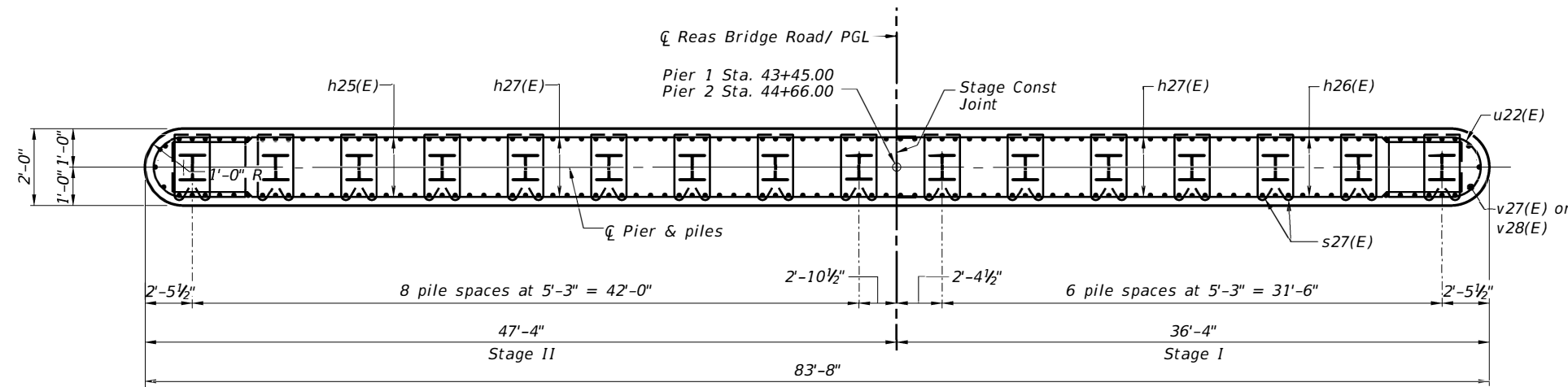
DECATUR (317) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**PIER 2**  
**STRUCTURE NO. 058-3408**  
 SHEET NO. 36 OF 40 SHEETS

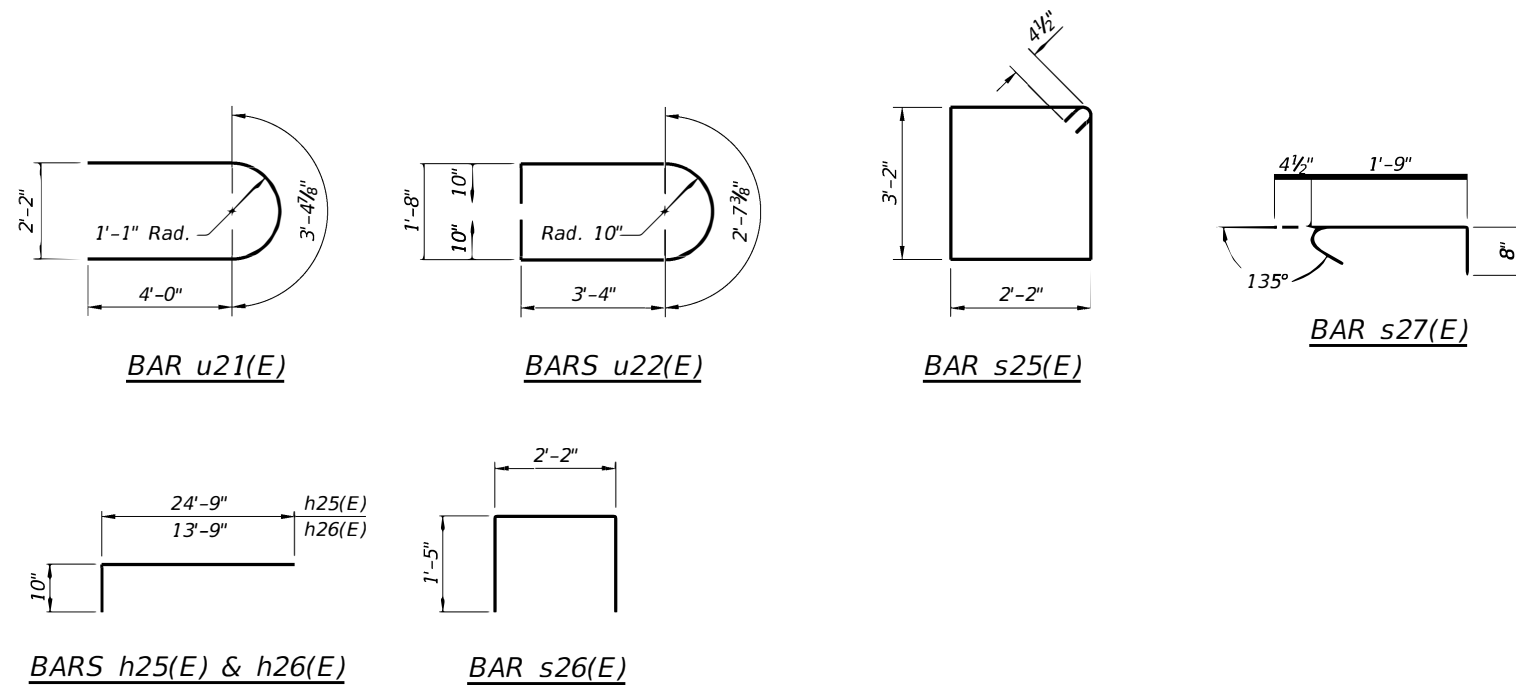
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	133
CONTRACT NO. 95912				

ILLINOIS FED. AID PROJECT

FILE NAME = I:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\WestBridge\pandeta11a.dgn



SECTION B-B



MIN BAR LAP

#5 bar = 3'-4"  
#7 bar = 4'-8"

BILL OF MATERIAL-PIER 1

Bar	No.	Size	Length	Shape
h25(E)	52	#5	25'-7"	┌───┐
h26(E)	52	#5	14'-7"	┌───┐
h27(E)	104	#5	24'-9"	┌───┐
p26(E)	20	#7	25'-5"	───
p27(E)	10	#7	35'-2"	───
p28(E)	4	#5	32'-4"	───
p29(E)	4	#5	21'-4"	───
p30(E)	4	#5	16'-10"	───
p31(E)	4	#5	13'-7"	───
s25(E)	80	#4	11'-5"	□
s26(E)	87	#4	5'-0"	┌───┐
s27(E)	832	#4	2'-10"	┌───┐
u21(E)	8	#6	11'-5"	┌───┐
u22(E)	52	#5	11'-0"	┌───┐
v27(E)	192	#5	27'-3"	───
Cofferdam Excavation		Cu. Yd.	467	
Cofferdam (Type 2) (Location 2)		Each	1	
Concrete Structures		Cu. Yd.	183.8	
Reinforcement Bars, Epoxy Coated		Pound	15,520	
Furnishing Steel Piles HP14x73		Foot	1080	
Driving Piles		Foot	1080	
Test Pile Steel HP14x73		Each	1	

BILL OF MATERIAL-PIER 2

Bar	No.	Size	Length	Shape
h25(E)	54	#5	25'-7"	┌───┐
h26(E)	54	#5	14'-7"	┌───┐
h27(E)	108	#5	24'-9"	┌───┐
p26(E)	20	#7	25'-5"	───
p27(E)	10	#7	35'-2"	───
p28(E)	4	#5	32'-4"	───
p29(E)	4	#5	21'-4"	───
p30(E)	4	#5	16'-10"	───
p31(E)	4	#5	13'-7"	───
s25(E)	80	#4	11'-5"	□
s26(E)	87	#4	5'-0"	┌───┐
s27(E)	864	#4	2'-10"	┌───┐
u21(E)	8	#6	11'-5"	┌───┐
u22(E)	54	#5	11'-0"	┌───┐
v28(E)	192	#5	28'-2"	───
Cofferdam Excavation		Cu. Yd.	365	
Cofferdam (Type 2) (Location 3)		Each	1	
Concrete Structures		Cu. Yd.	189.5	
Reinforcement Bars, Epoxy Coated		Pound	16,090	
Furnishing Steel Piles HP14x73		Foot	960	
Driving Piles		Foot	960	
Test Pile Steel HP14x73		Each	1	

Notes:

- Pour steps monolithically with cap.
- For details of piles, see sheet 38 of 40.
- For details of Bar Splicers, see sheet 39 of 40.
- All edges shall have standard 3/4" chamfer.
- Space reinforcement in cap to miss anchor bolts.
- Bars indicated thus 4x2-#7 etc. indicates 4 lines of bars with 2 lengths per line.

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:30:15 AM	DRAWN RLK	REVISED -
PLOT SCALE = 8.0000' / 1"	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

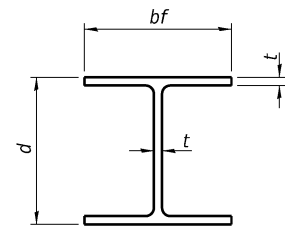
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**PIER DETAILS**  
**STRUCTURE NO. 058-3408**

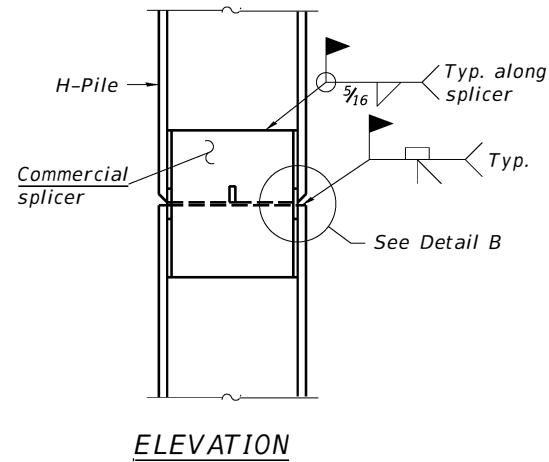
SHEET NO. 37 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	134
CONTRACT NO. 95912				
ILLINOIS FED. AID PROJECT				

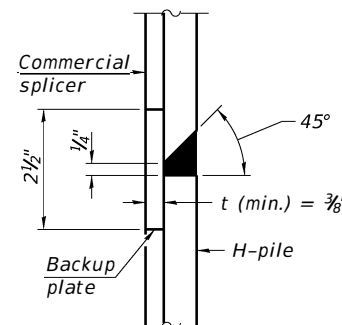


**STEEL PILE TABLE**

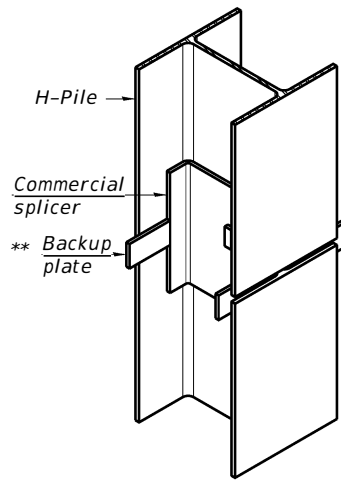
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



**ELEVATION**

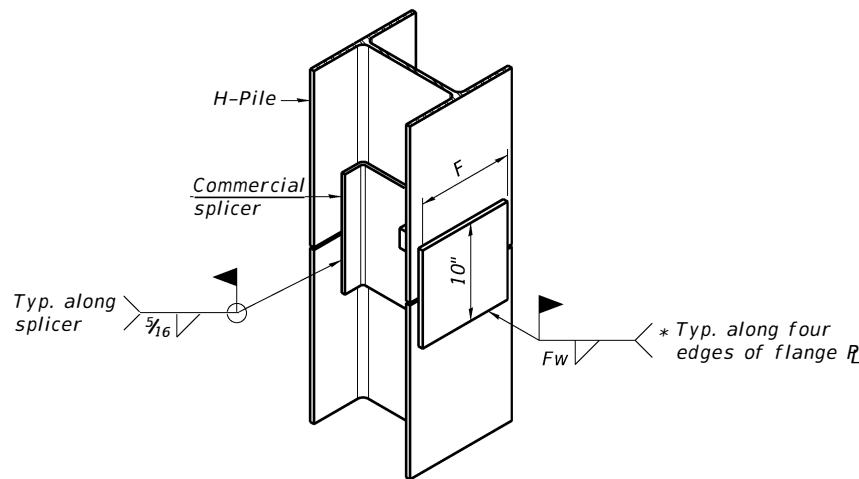


**DETAIL "B"**



**ISOMETRIC VIEW**

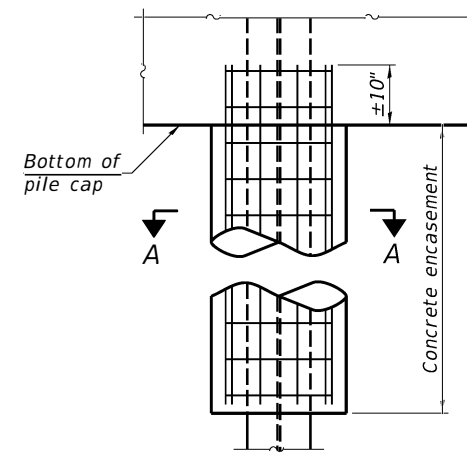
**WELDED COMMERCIAL SPLICE**



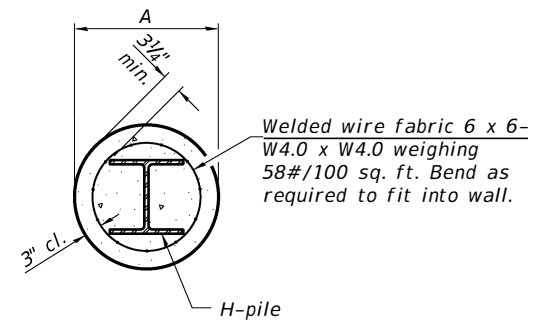
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (3/16" min.).

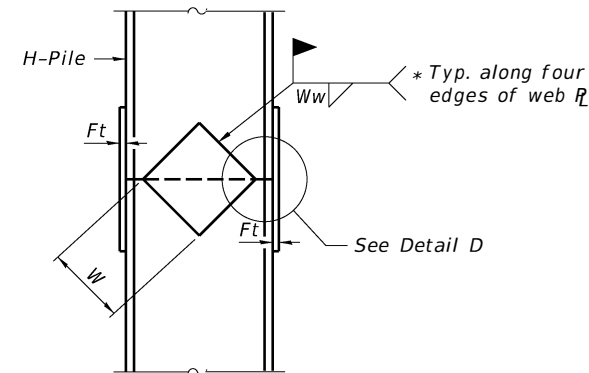


**ELEVATION**

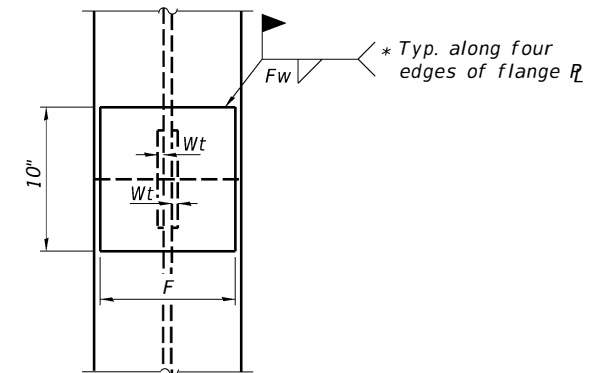


**SECTION A-A**

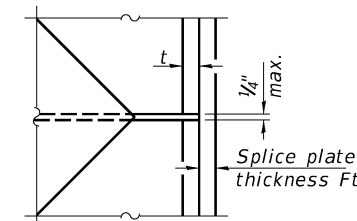
**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**



**ELEVATION**



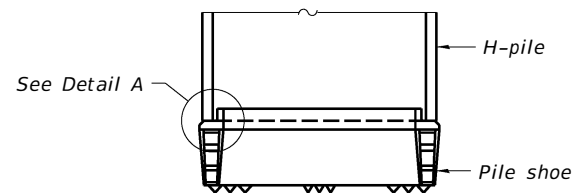
**END VIEW**



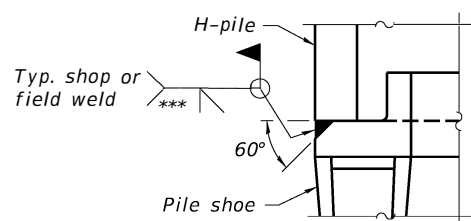
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

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



**ELEVATION**



**DETAIL A**

**SHOE ATTACHMENT**

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

F-HP 1-1-2020

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:32:29 AM	DRAWN RLK	REVISED -
PLOT SCALE = 2x0.0000 '1' / 1in.	CHECKED BCG	REVISED -
PLOT DATE = 1/25/2022	DATE	REVISED -

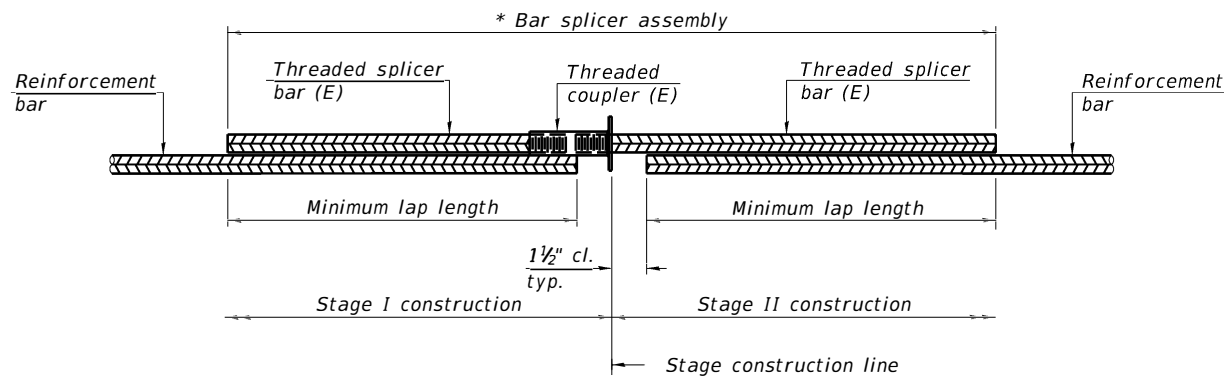
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**HP PILE DETAILS**  
**STRUCTURE NO. 058-3408**

SHEET NO. 38 OF 40 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	135
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

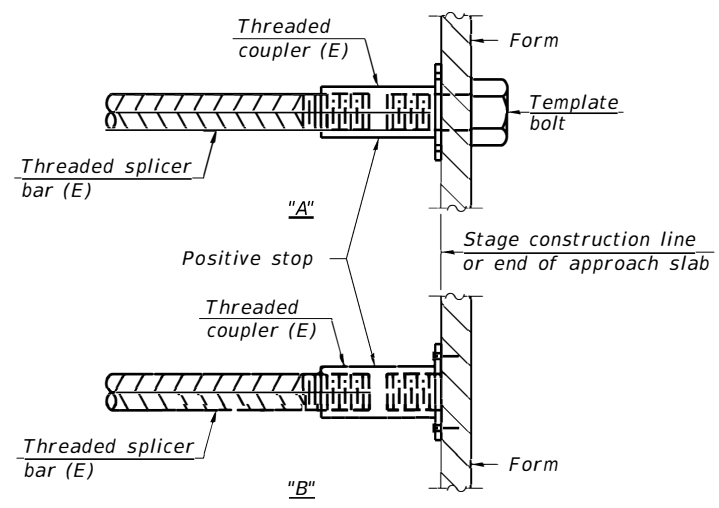


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

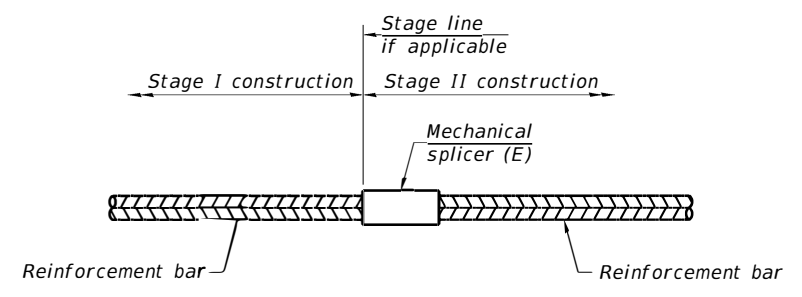
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	1440	3'-6"
Approach slab	#4	62	1'-10"
Approach slab	#5	80	3'-0"
E. abutment	#5	14	2'-5"
E. abutment	#7	8	3'-5"
W. abutment	#5	14	2'-5"
W. abutment	#7	8	3'-5"
Pier 1	#5	60	2'-5"
Pier 1	#7	10	3'-5"
Pier 2	#5	62	2'-5"
Pier 2	#7	10	3'-5"



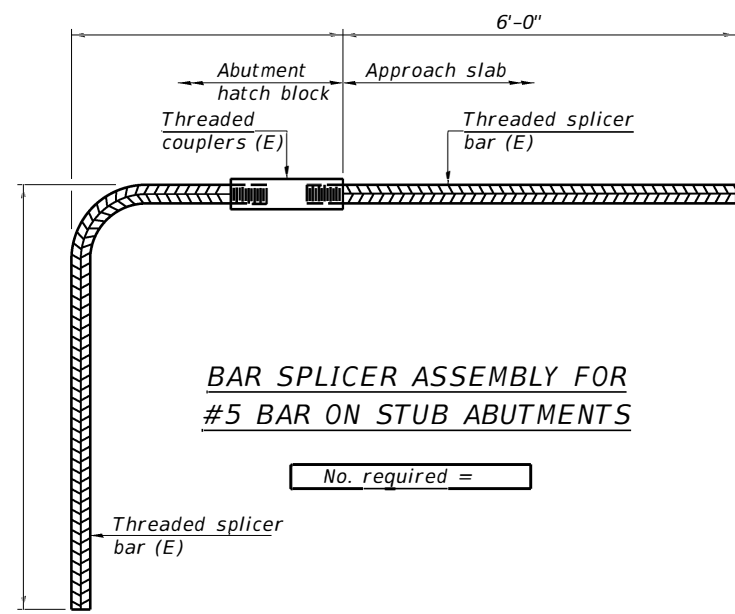
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = I:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\WestBridge\bar-splicer.dgn

BSD-1 1-1-2020

USER NAME = jbuening	DESIGNED JMB	REVISED -
PLOT TIME = 12:18:27 AM	DRAWN RLK	REVISED -
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PLOT DATE = 1/25/2022	DATE	REVISED -

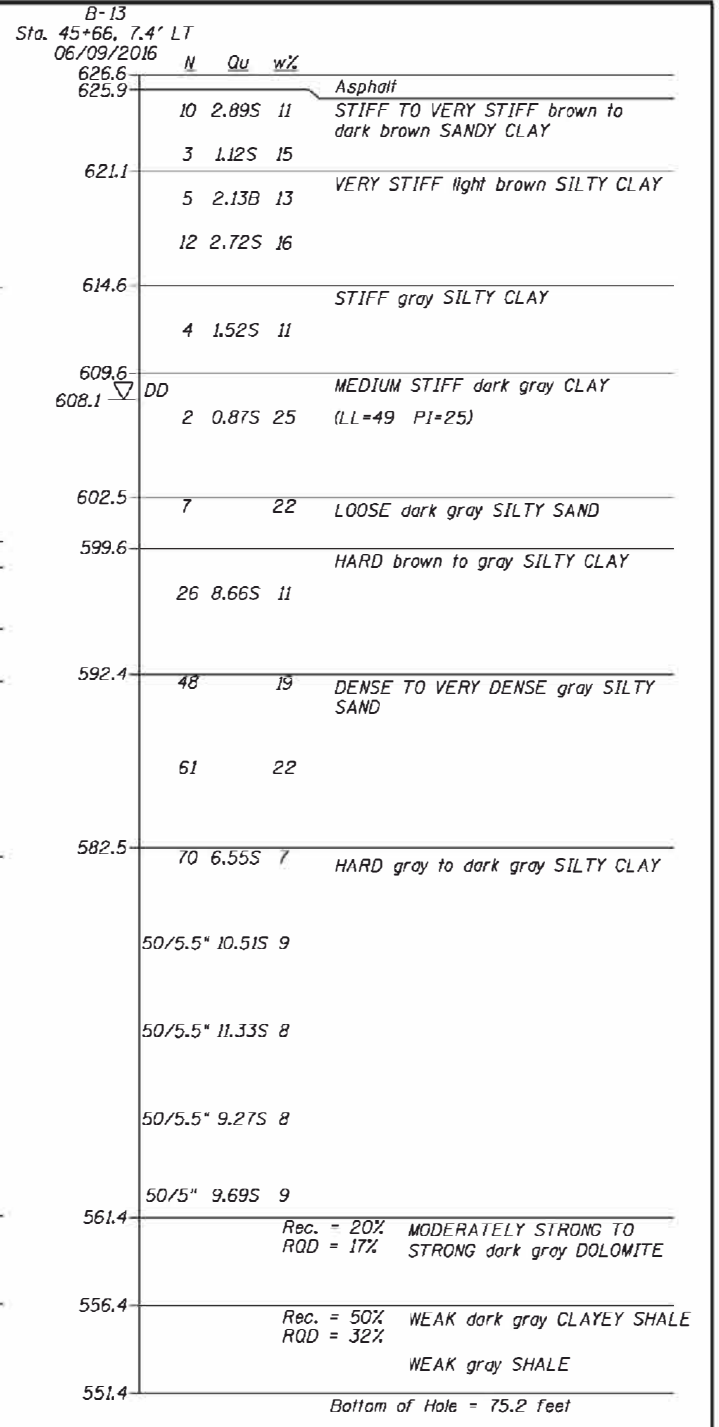
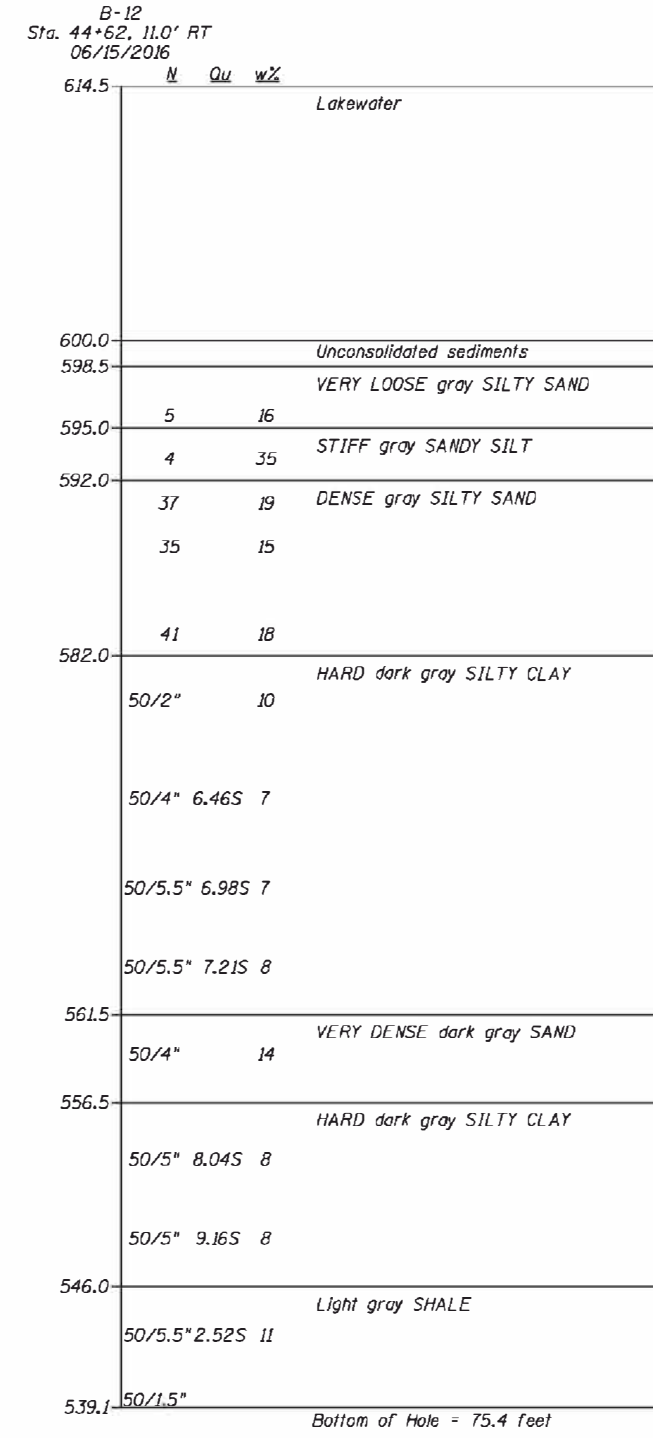
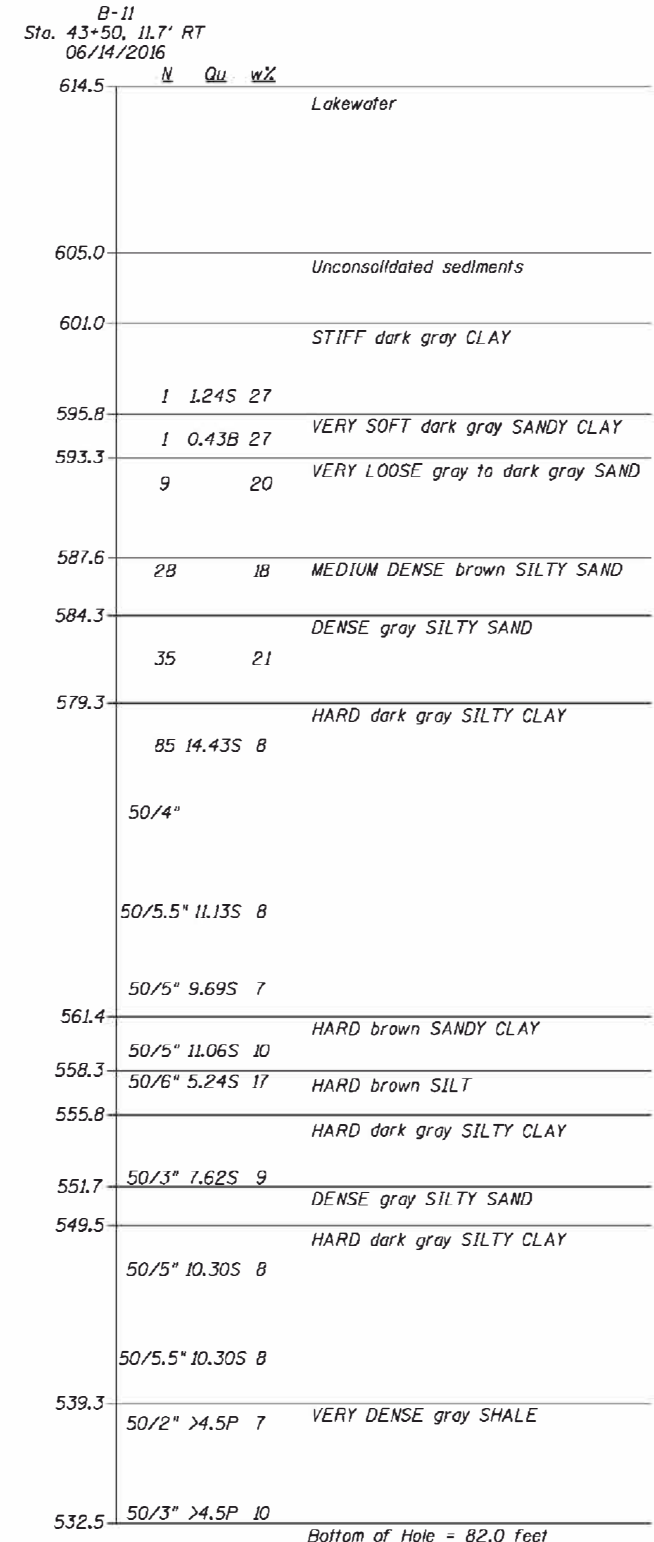
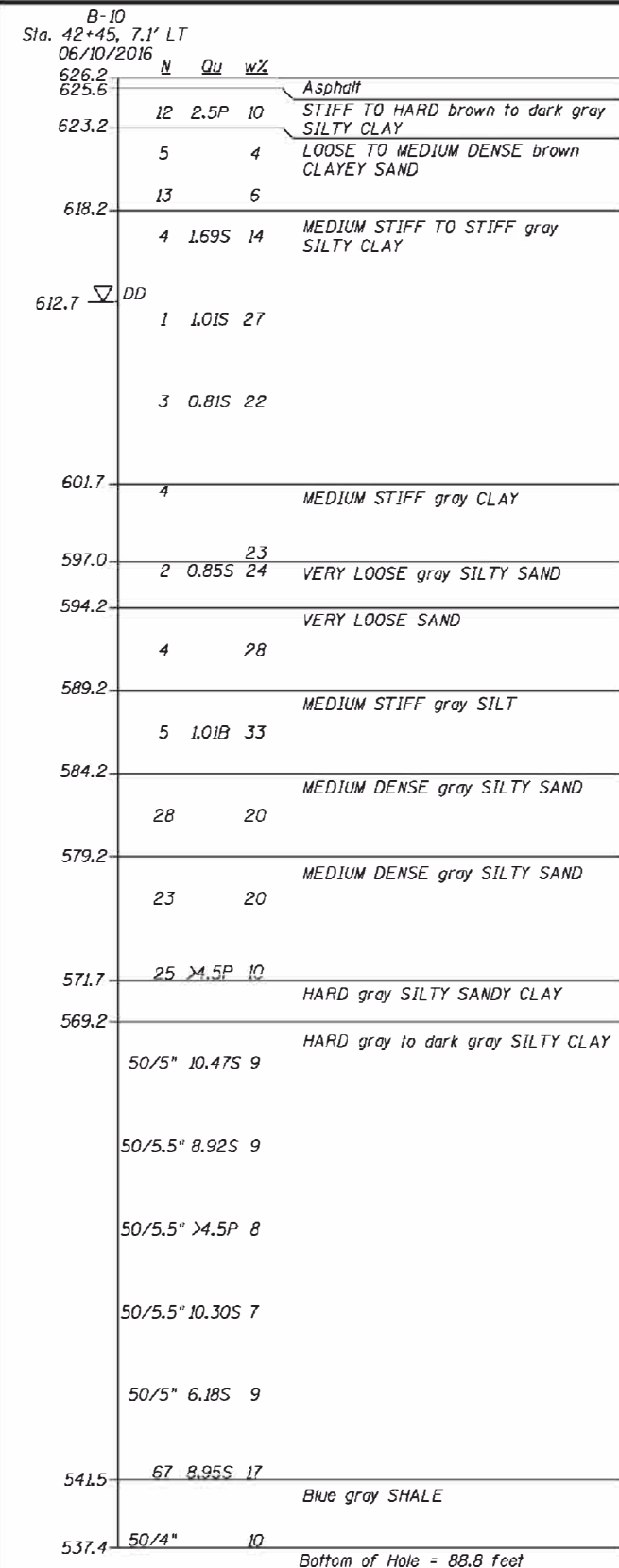
**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS  
 DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**  
 STRUCTURE NO. 058-3408  
 SHEET NO. 39 OF 40 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	136
<b>CONTRACT NO. 95912</b>				

ILLINOIS FED. AID PROJECT





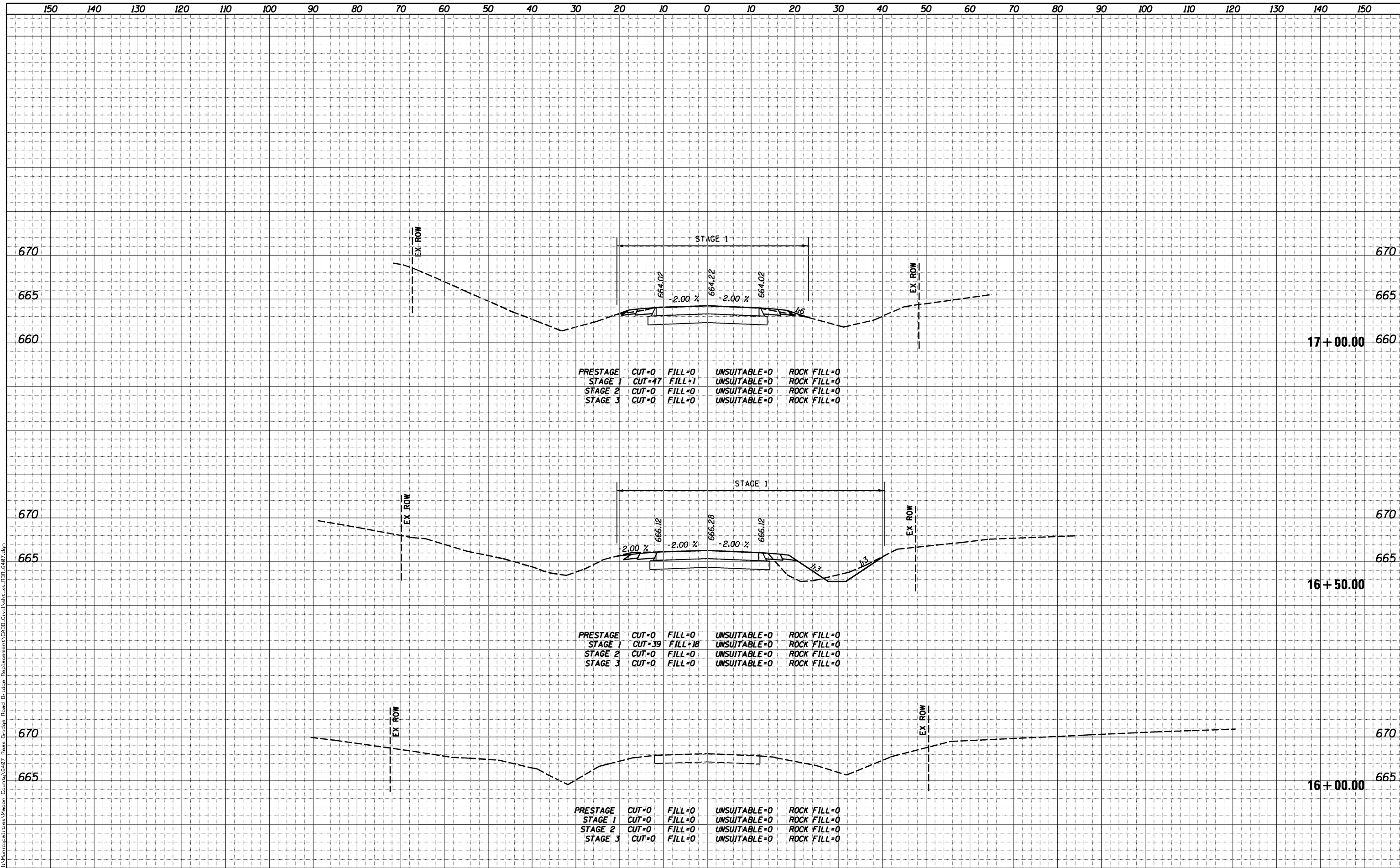
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		CHECKED - KKC	REVISED			MACON	ILLINOIS	196	137
		DRAWN - EJM	REVISED		CONTRACT NO.				
		CHECKED - KKC	REVISED		ILLINOIS FED. AID PROJECT				

USER NAME = jbenning	DESIGNED JMB	REVISED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS	DECATUR (217) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>SUBSURFACE DATA PROFILE</b> <b>STRUCTURE NO. 058-3408</b> SHEET NO. 40 OF 40 SHEETS	FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 2:0.0000 '1' / in.	CHECKED BCG	REVISED -				CONTRACT NO. 95912				
PLOT DATE = 1/25/2022	DATE	REVISED -				ILLINOIS FED. AID PROJECT				

FILE NAME = I:\Municipalities\Macon County\6407 Rees Bridge Road Bridge Replacement\CADD\Structural\WestBridge\Subsur\Prof\file.dgn

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINISH SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



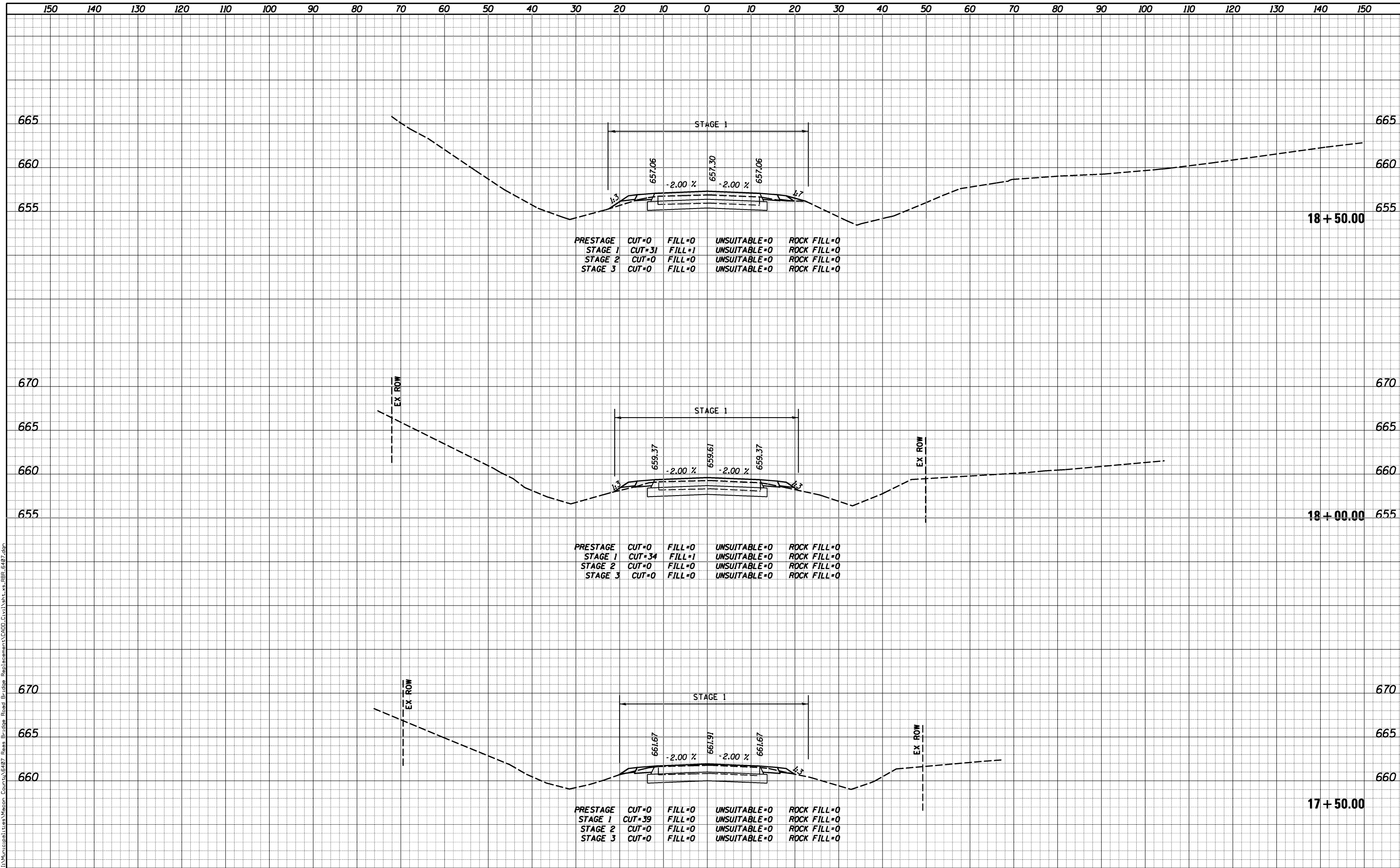
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PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
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STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
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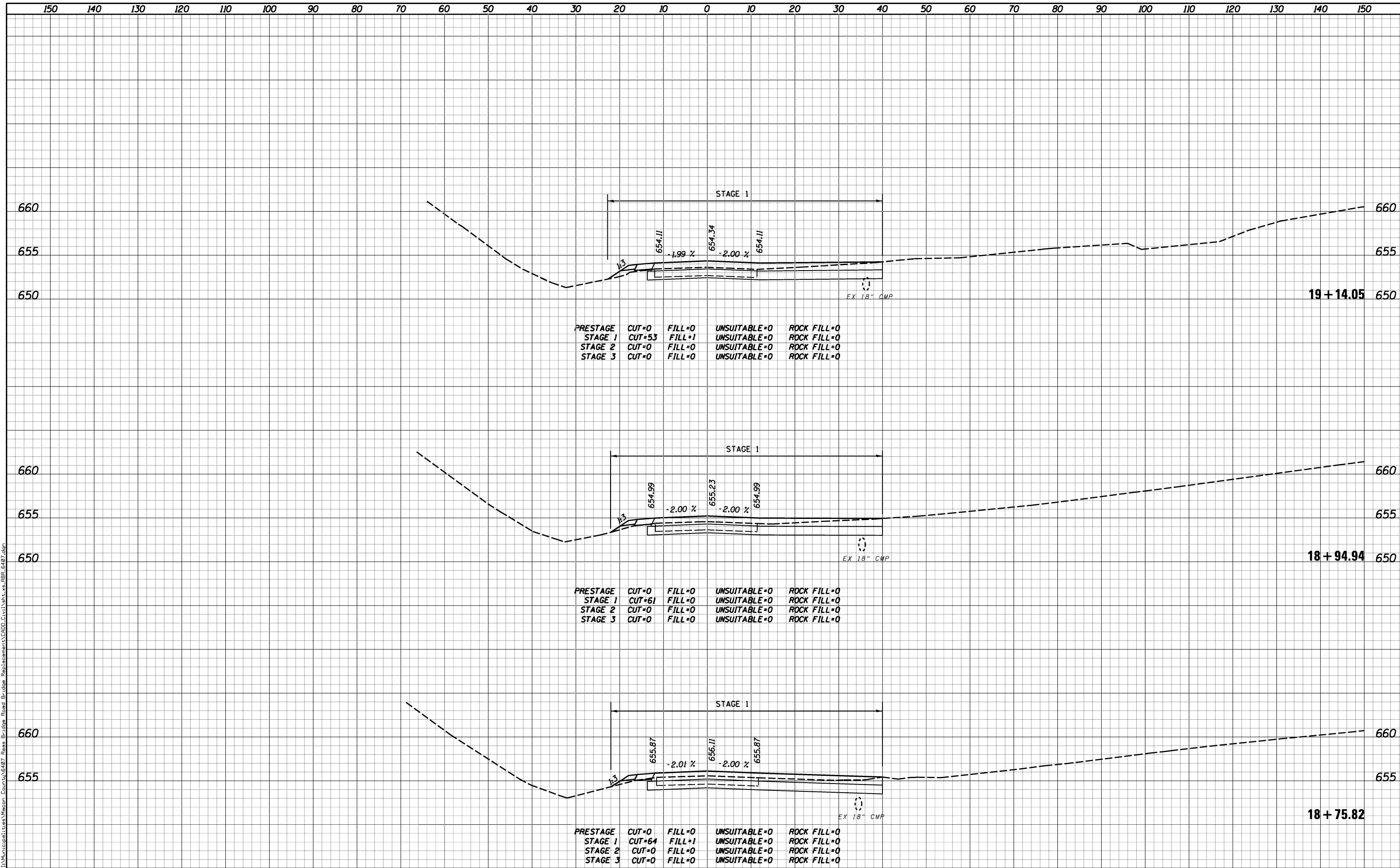


I:\Municipalities\Wacon County\487 Reas Bridge Road Bridge Replacement\CADD\Civil\17+50.00-RBR-6407.dwg

USER NAME = j_buening	DESIGNED -	REVISIED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (317) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - REAS BRIDGE ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 139
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PLOT DATE = 11/19/2021	DATE -	REVISIED -								

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
NO.	

DATE	
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PLOTTED	
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NO.	



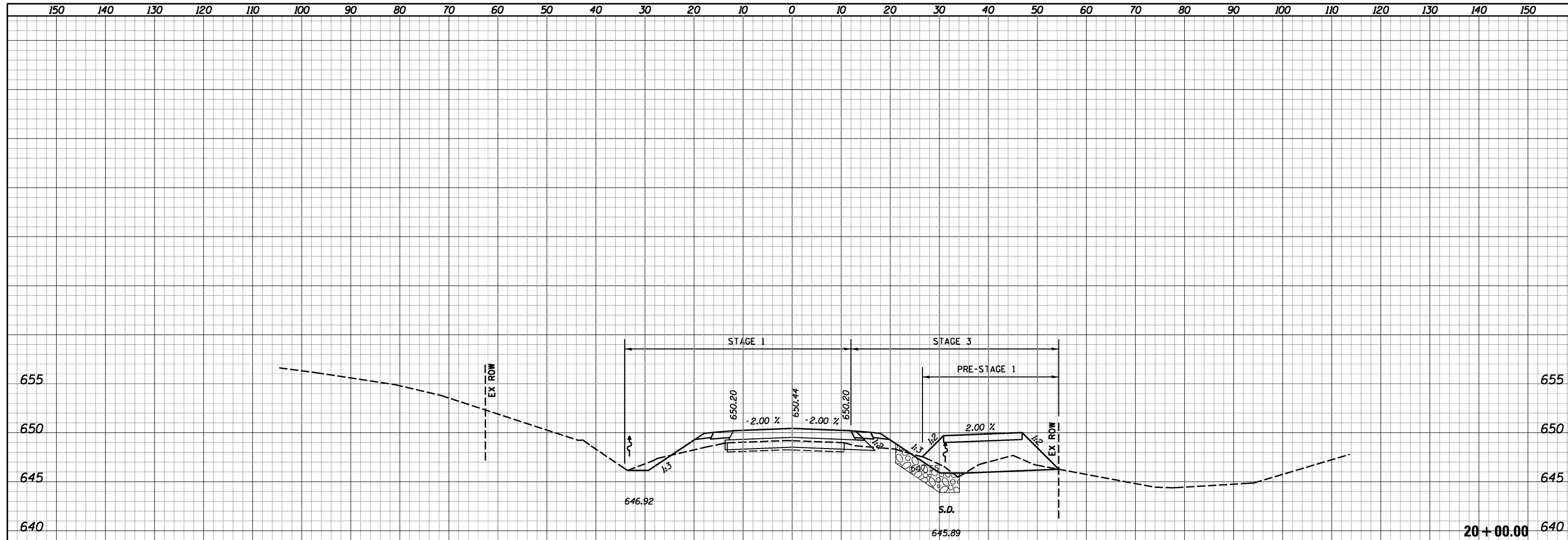
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STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
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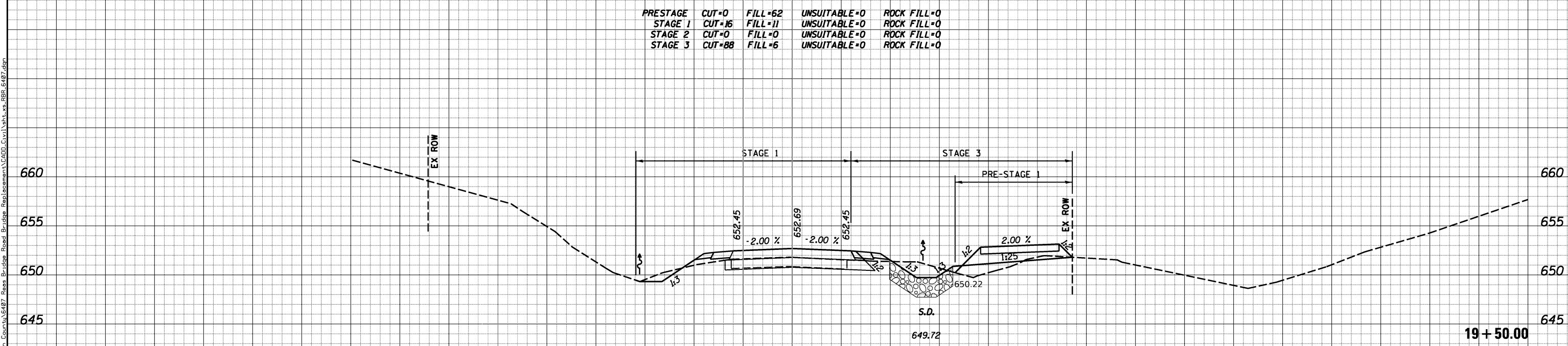
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STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	



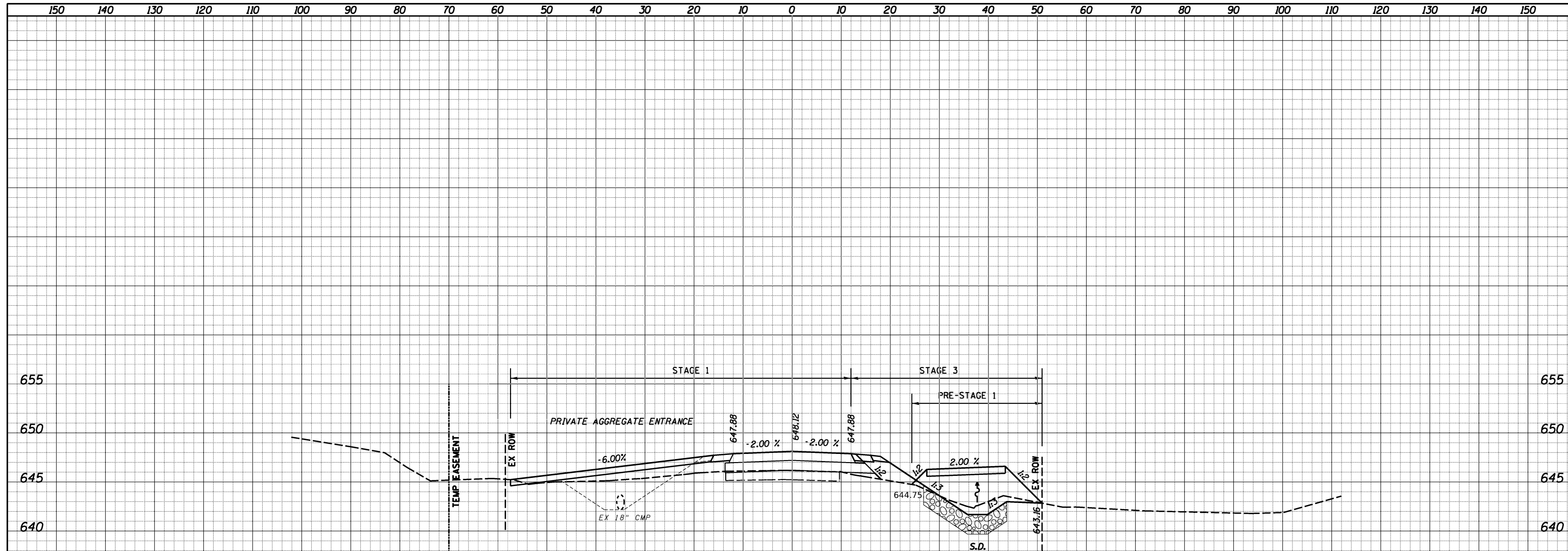
PRESTAGE	CUT=0	FILL=62	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=16	FILL=11	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=88	FILL=6	UNSUITABLE=0	ROCK FILL=0



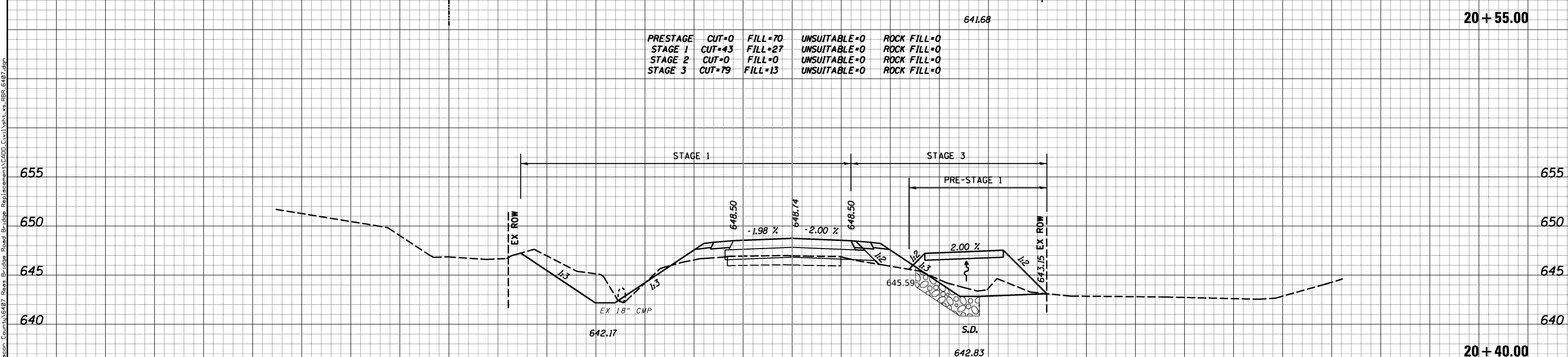
PRESTAGE	CUT=0	FILL=31	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=18	FILL=1	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=42	FILL=2	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	
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PRESTAGE	CUT=0	FILL=70	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=43	FILL=27	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=79	FILL=13	UNSUITABLE=0	ROCK FILL=0

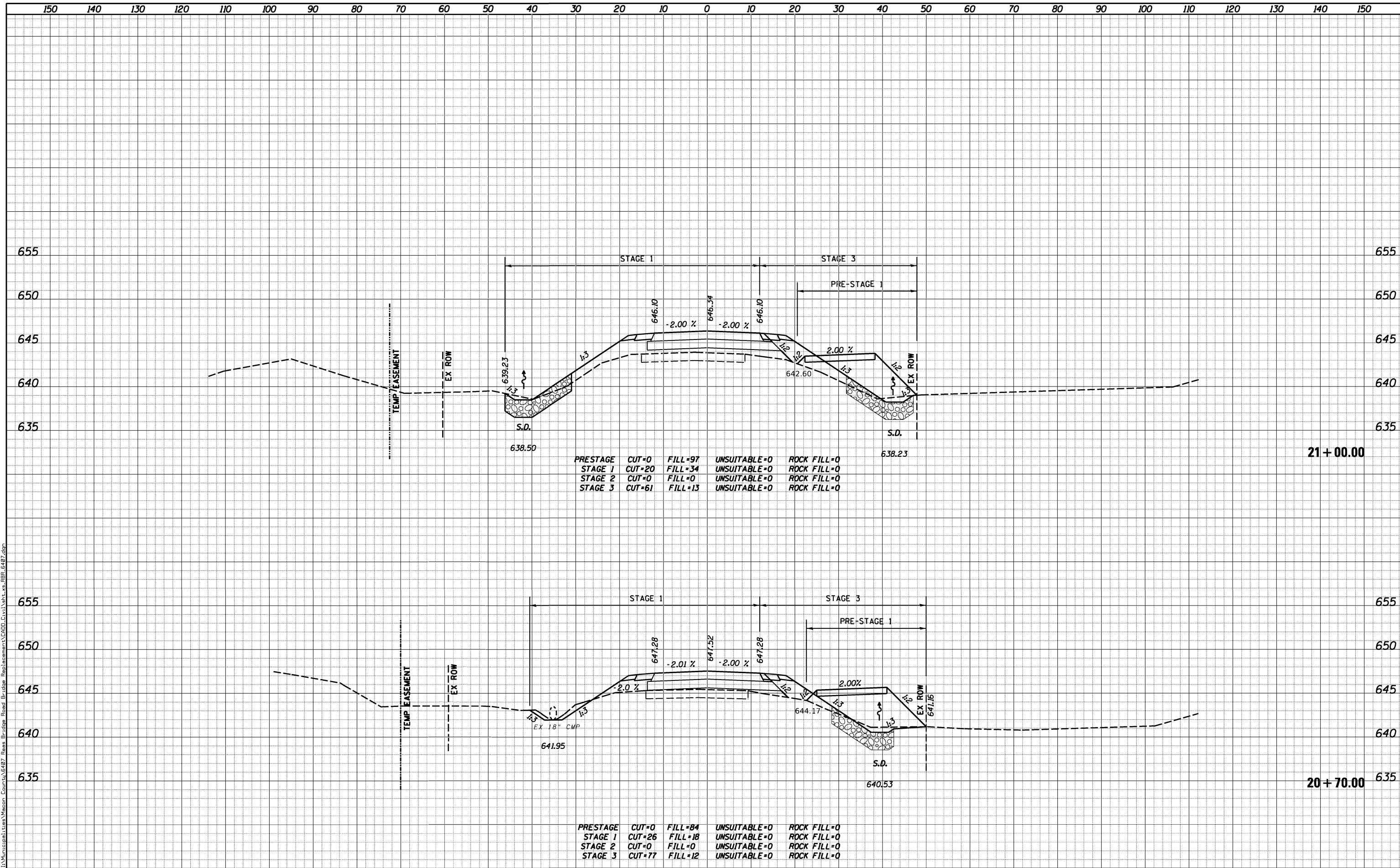


PRESTAGE	CUT=0	FILL=85	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=50	FILL=19	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=88	FILL=11	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISIED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (317) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - REAS BRIDGE ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 142	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -				SCALE: 10'H / 5'V		SHEET NO. OF SHEETS	STA. TO STA. 20+55.00	CONTRACT NO. 95912	
PLOT DATE = 11/19/2021	DATE -	REVISIED -						ILLINOIS FED. AID PROJECT			

DATE	
BY	
FINL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



PRESTAGE	CUT=0	FILL=97	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=20	FILL=34	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=61	FILL=13	UNSUITABLE=0	ROCK FILL=0

PRESTAGE	CUT=0	FILL=84	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=26	FILL=18	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=77	FILL=12	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

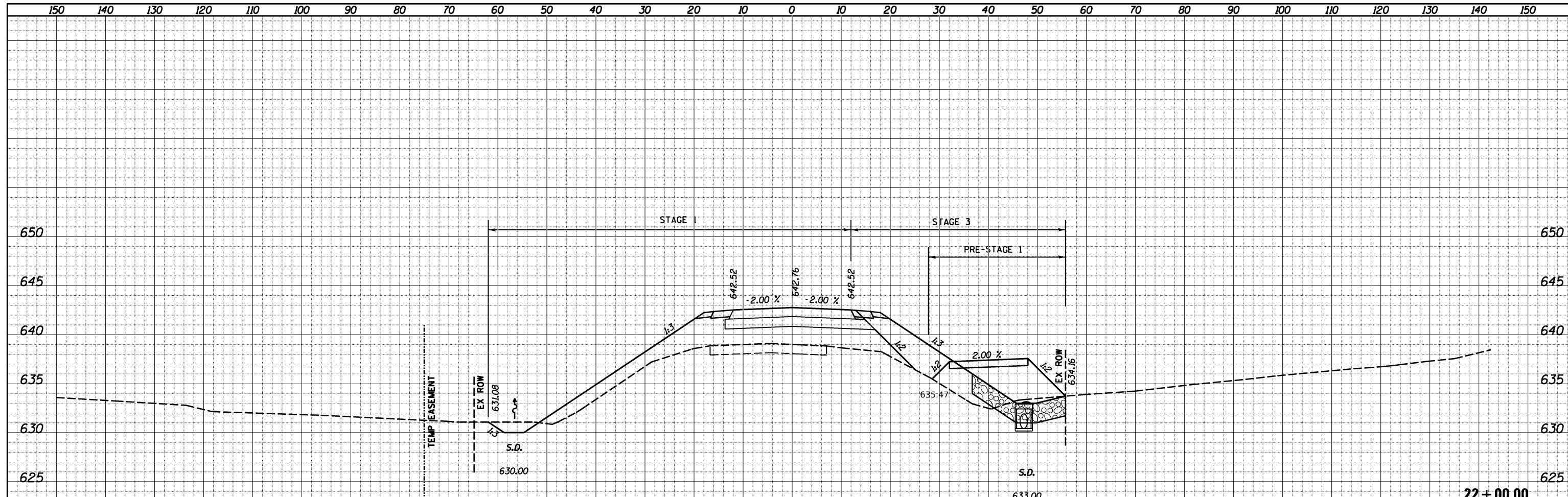
**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA.

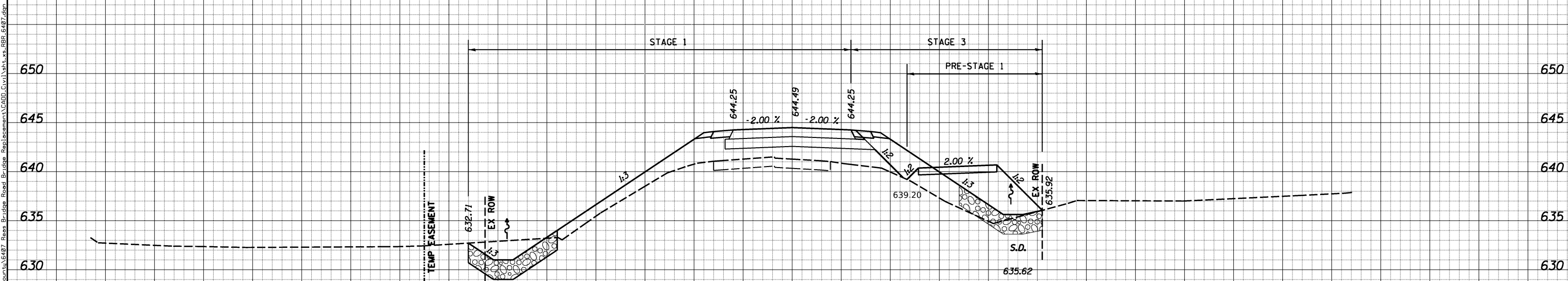
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	143
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINISH SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



PRESTAGE	CUT=0	FILL=127	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=21	FILL=97	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=59	FILL=41	UNSUITABLE=0	ROCK FILL=0

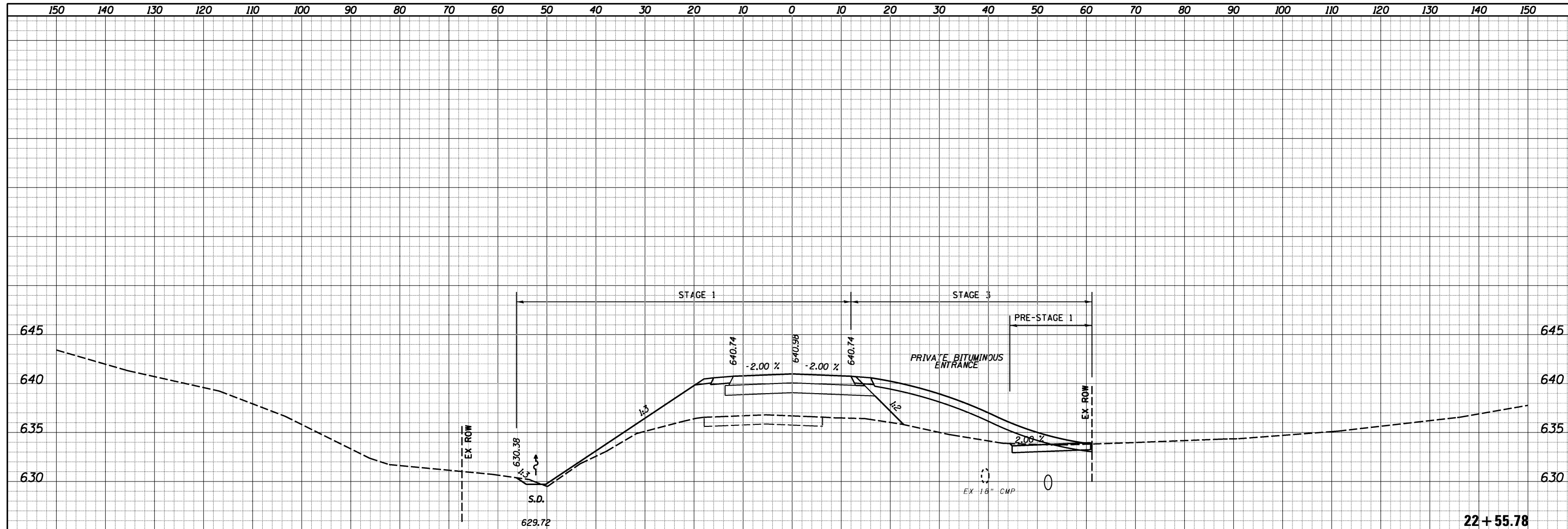


PRESTAGE	CUT=0	FILL=133	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=38	FILL=71	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=56	FILL=24	UNSUITABLE=0	ROCK FILL=0

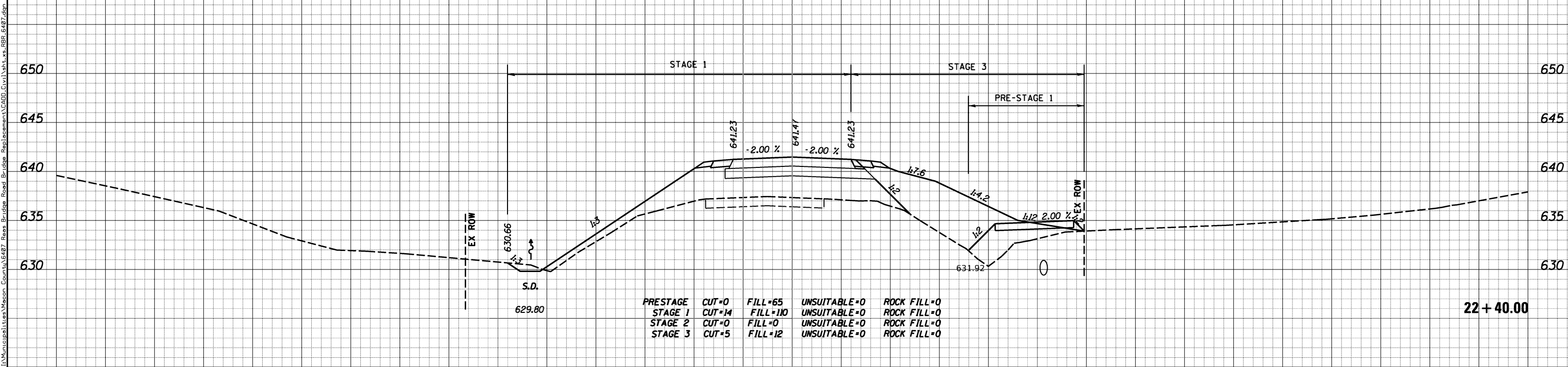


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FINISHED SURVEYED	
NOTE BOOK	
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PLOTTED TEMPLATE	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
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PLOTTED TEMPLATE	
AREAS CHECKED	

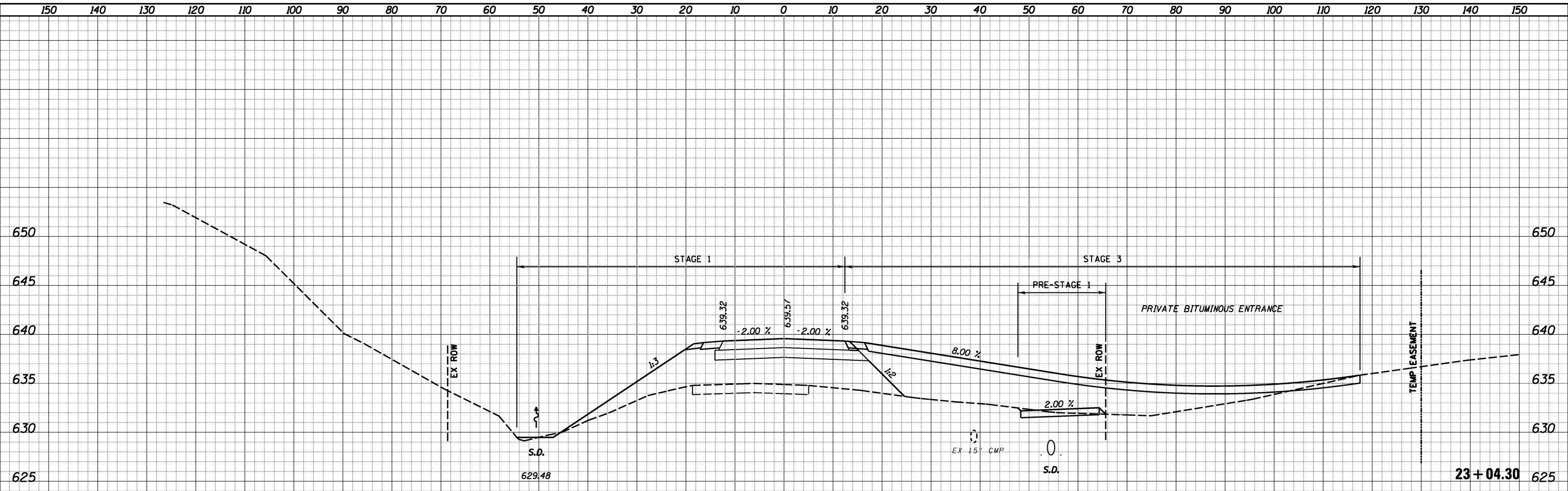


PRESTAGE	CUT=0	FILL=37	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=11	FILL=116	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=21	FILL=135	UNSUITABLE=0	ROCK FILL=0



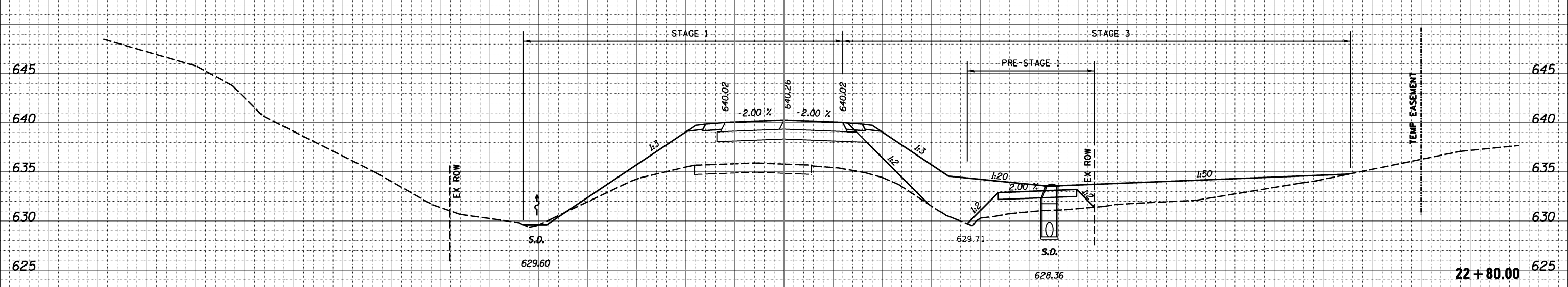
PRESTAGE	CUT=0	FILL=65	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=14	FILL=110	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=5	FILL=12	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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PRESTAGE	CUT=14	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=5	FILL=143	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=7	FILL=211	UNSUITABLE=0	ROCK FILL=0

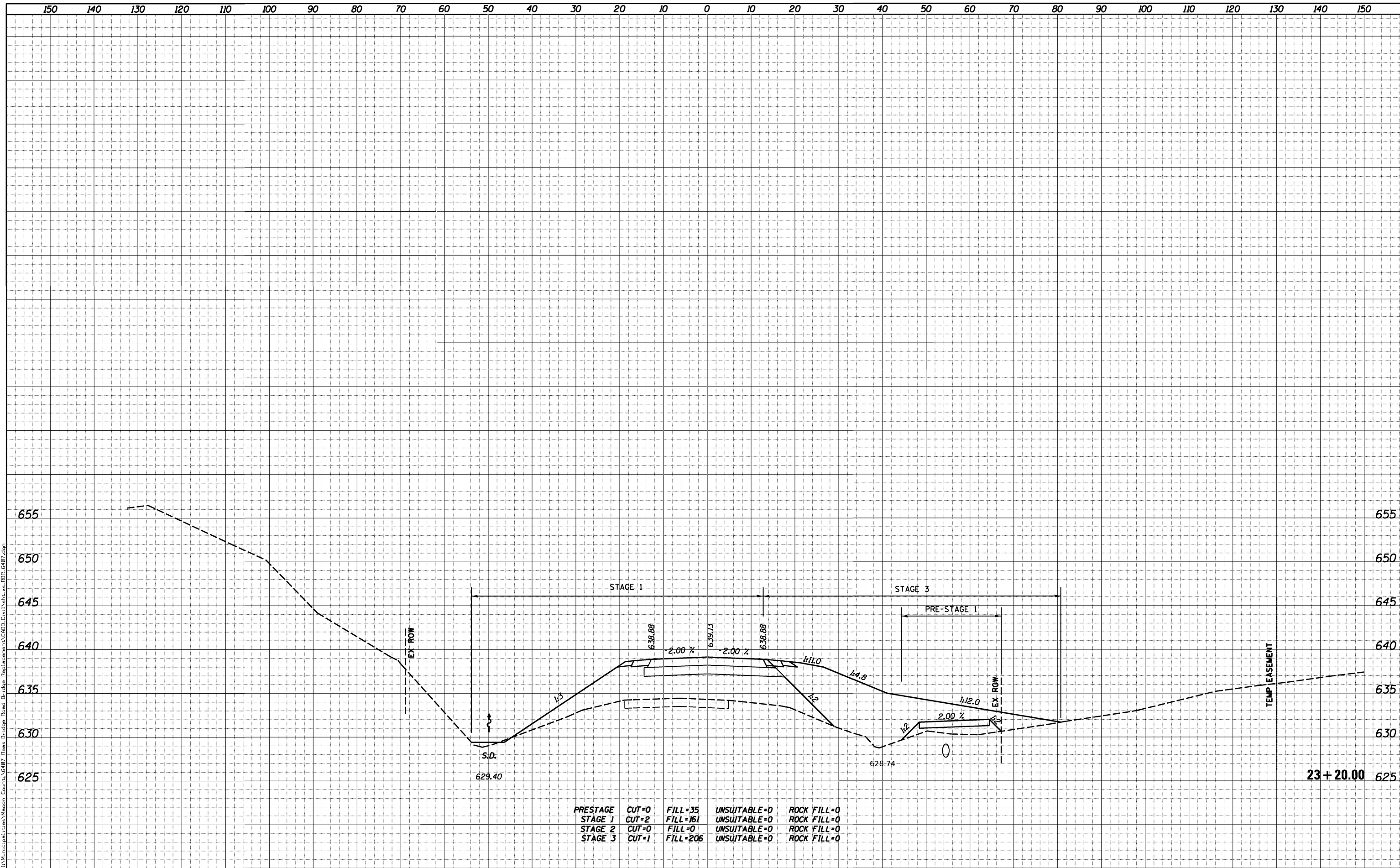
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=53	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=8	FILL=137	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=1	FILL=185	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
FINL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

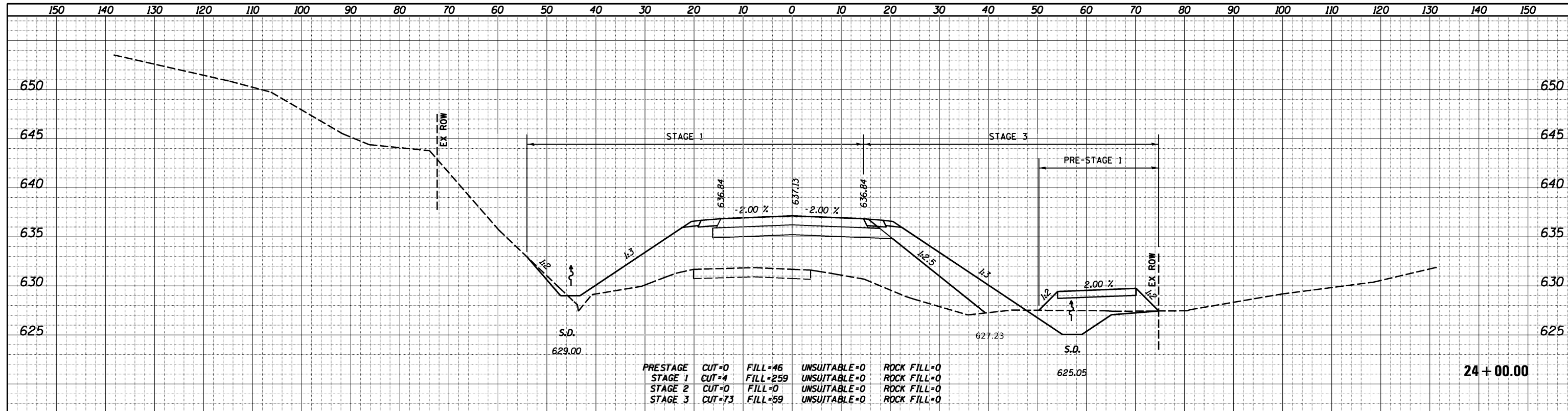
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BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	



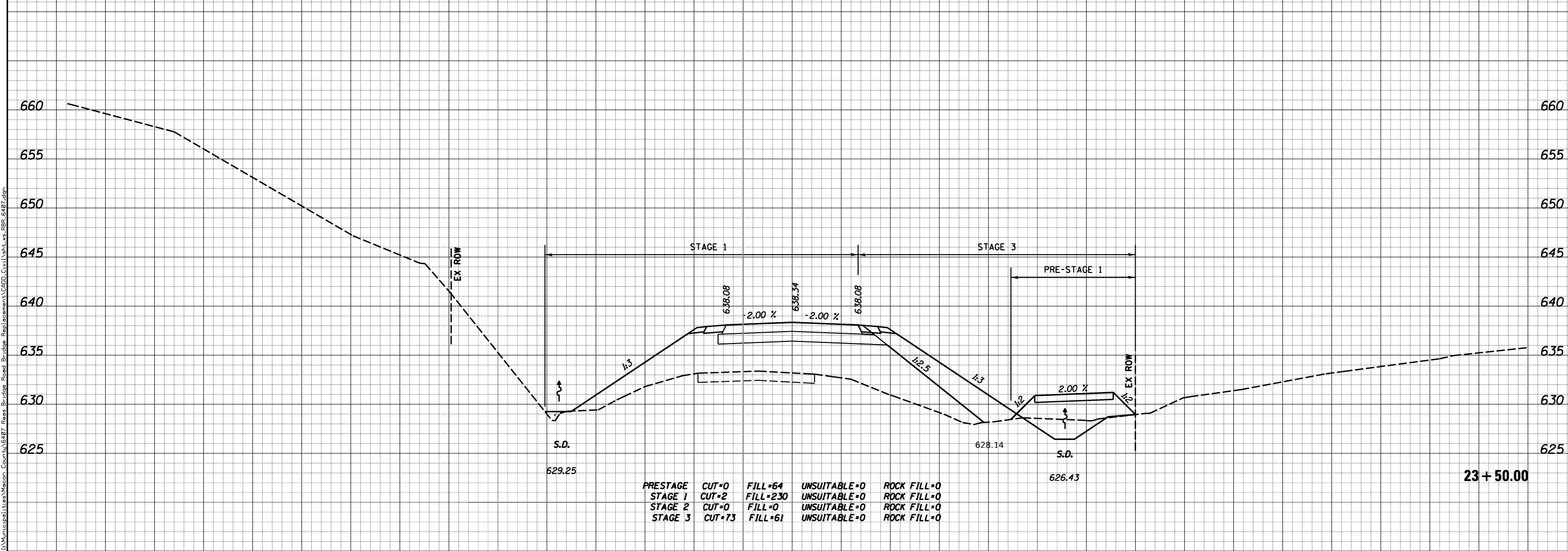
PRESTAGE	CUT=0	FILL=35	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=2	FILL=161	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=1	FILL=206	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISIED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (317) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - REAS BRIDGE ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 147
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -				SCALE: 10'H / 5'V	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 95912	
PLOT DATE = 11/19/2021	DATE -	REVISIED -		ILLINOIS FED. AID PROJECT						

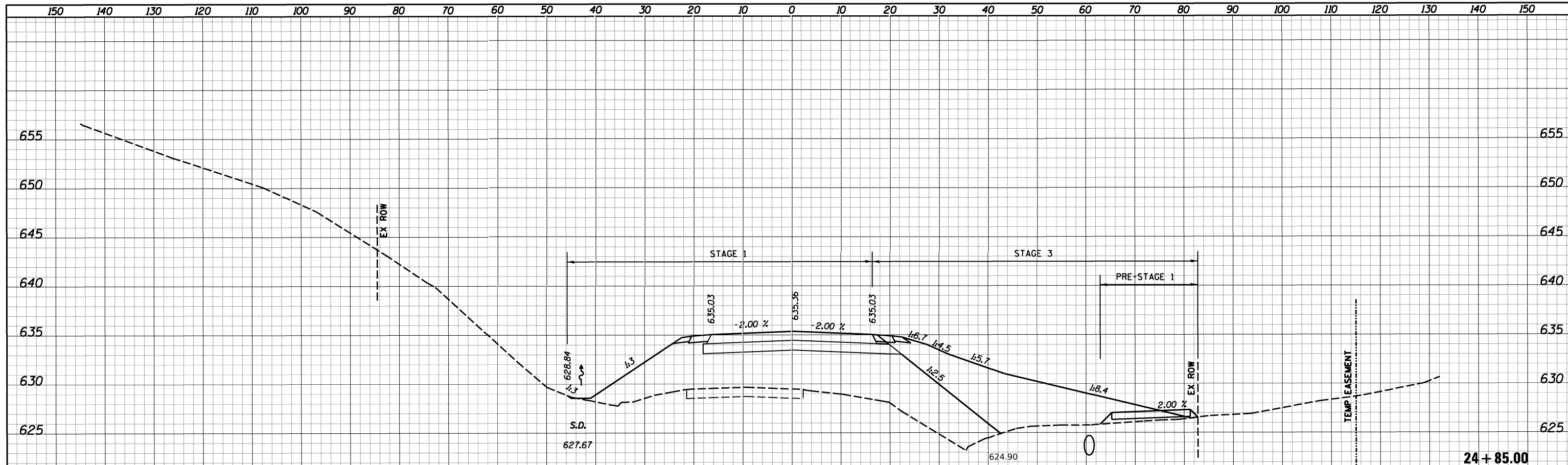
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TEMPLATE	
AREAS CHECKED	
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DATE	
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TEMPLATE	
AREAS CHECKED	
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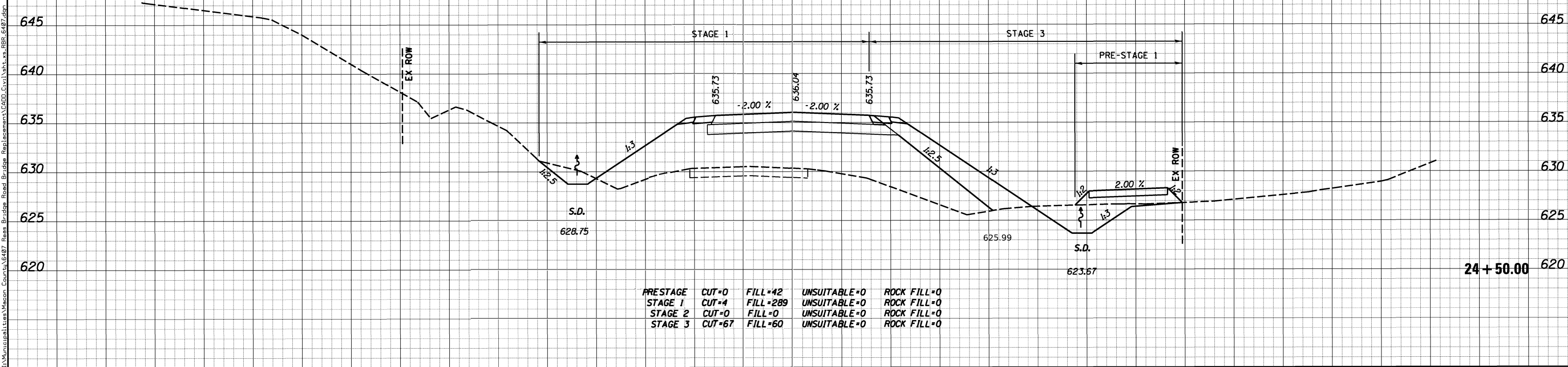


DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	



PRESTAGE	CUT=0	FILL=20	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=2	FILL=322	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=4	FILL=181	UNSUITABLE=0	ROCK FILL=0

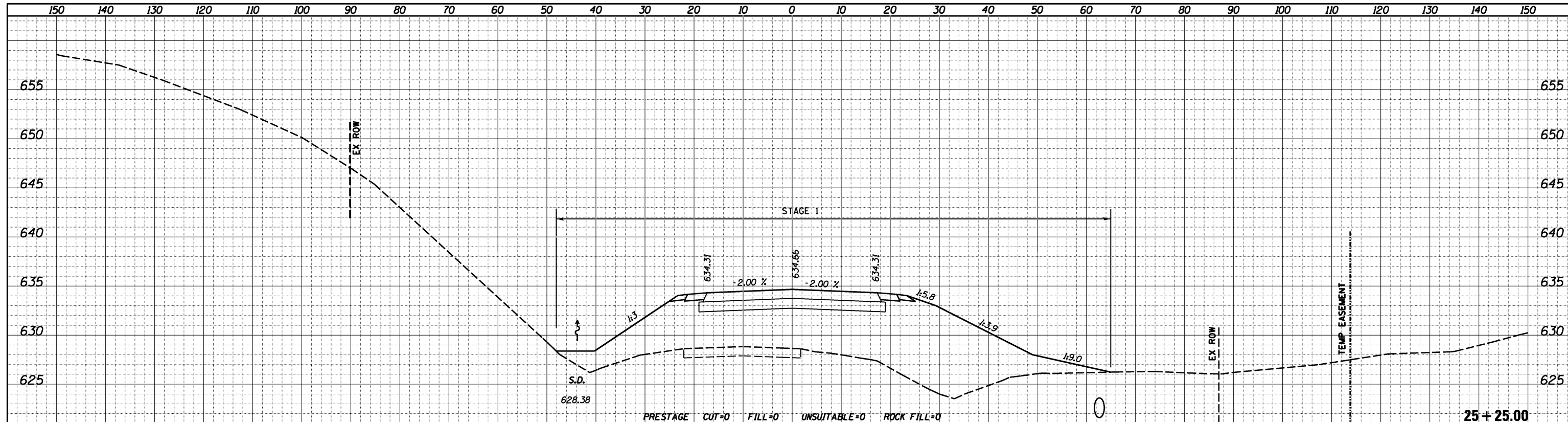
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



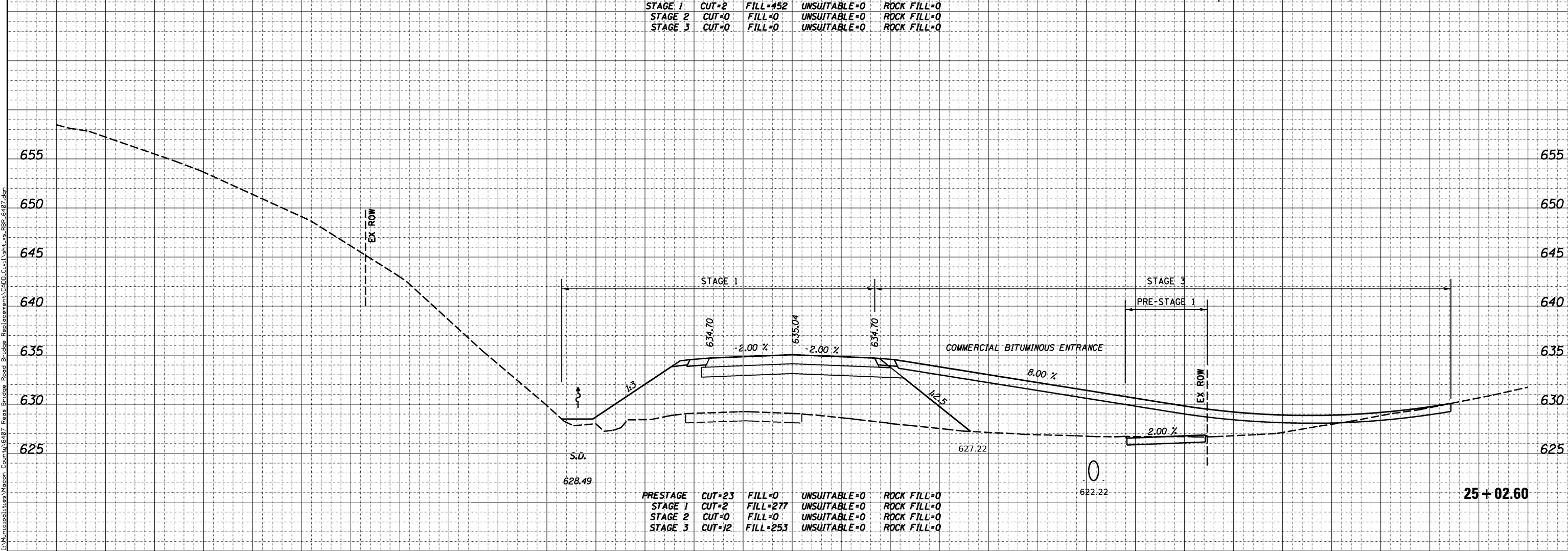
PRESTAGE	CUT=0	FILL=42	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=4	FILL=289	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=67	FILL=60	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
SURVEYED	
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AREAS	
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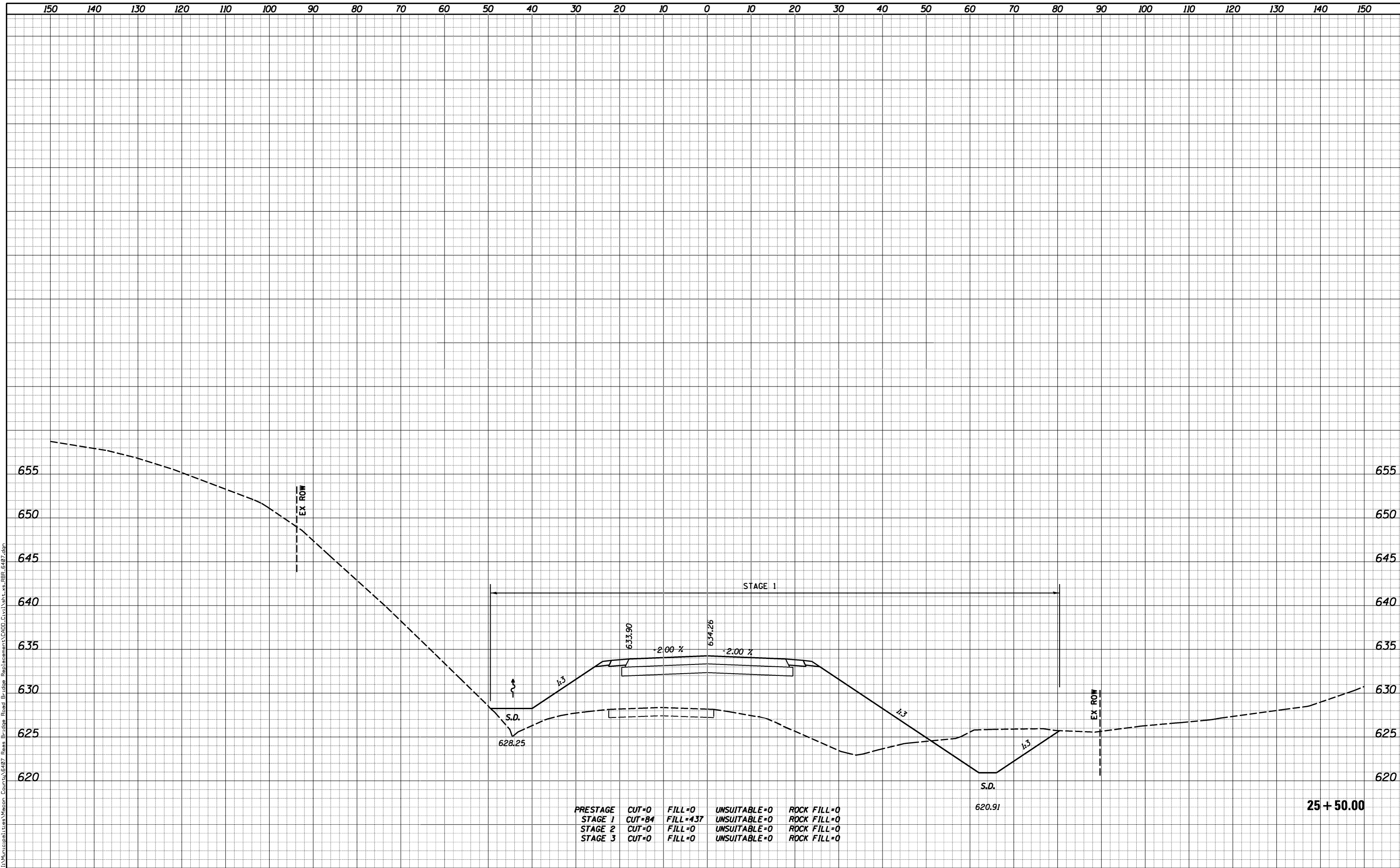
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=2	FILL=452	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0



PRESTAGE	CUT=23	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=2	FILL=277	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=12	FILL=253	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
FINISHED SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



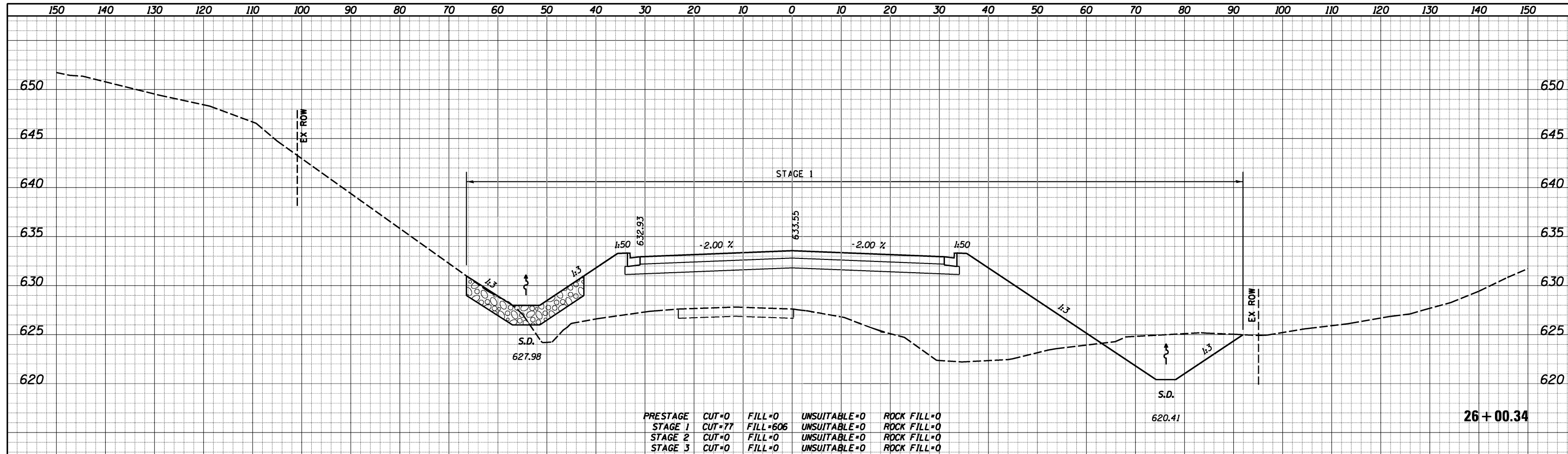
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=84	FILL=437	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

25 + 50.00

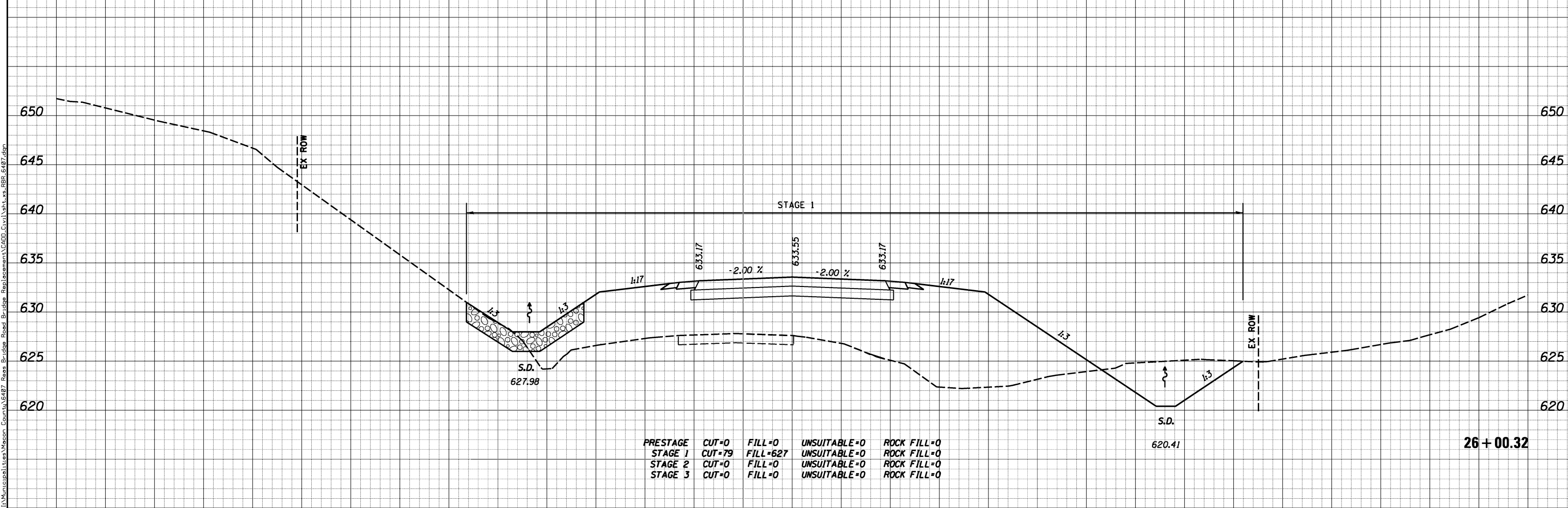
USER NAME = j_buening	DESIGNED -	REVISIED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (317) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - REAS BRIDGE ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 151
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -				SCALE: 10'H / 5'V	SHEET NO. OF SHEETS	STA. 25+50.00 TO STA. 25+50.00	CONTRACT NO. 95912	
PLOT DATE = 11/19/2021	DATE -	REVISIED -								



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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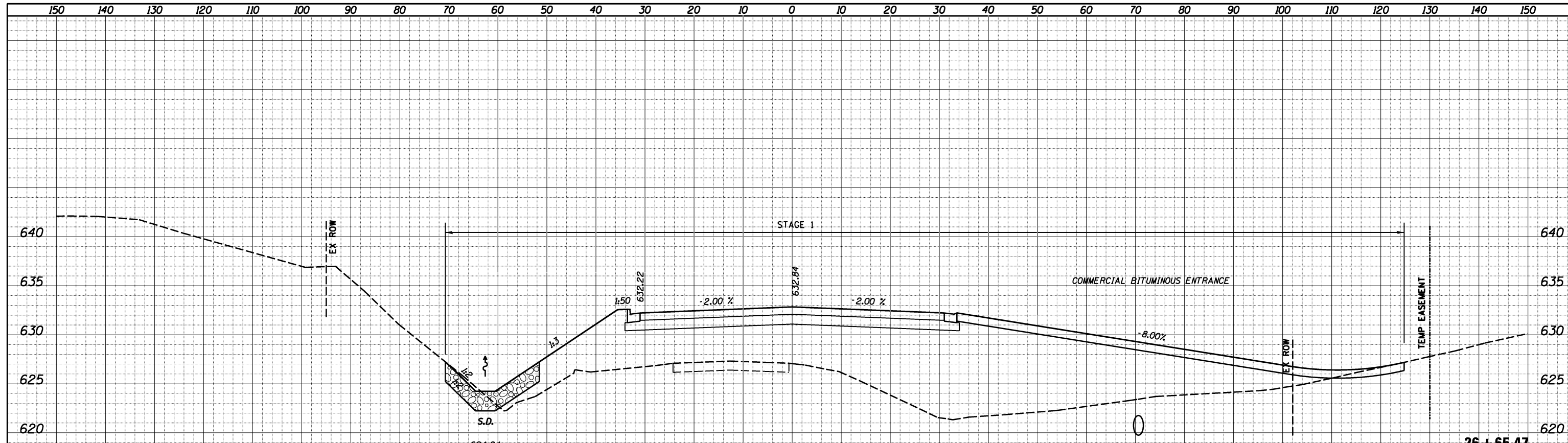


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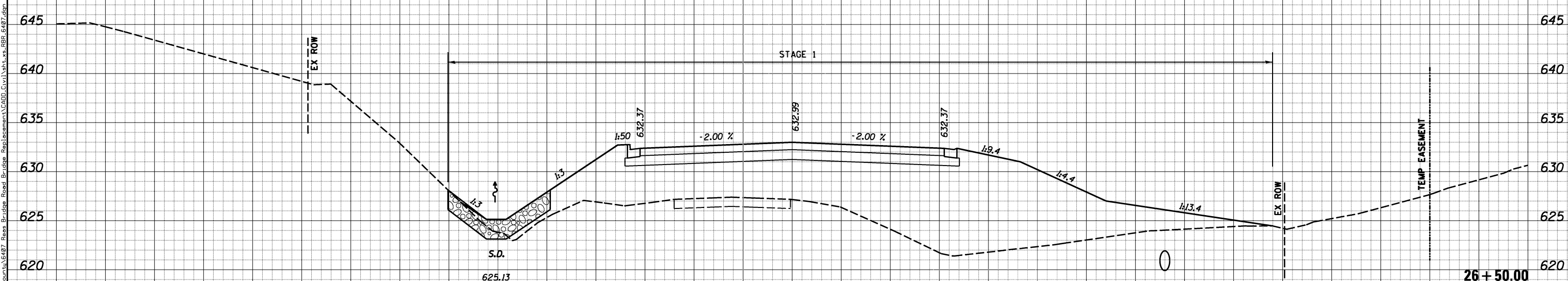


DATE	
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FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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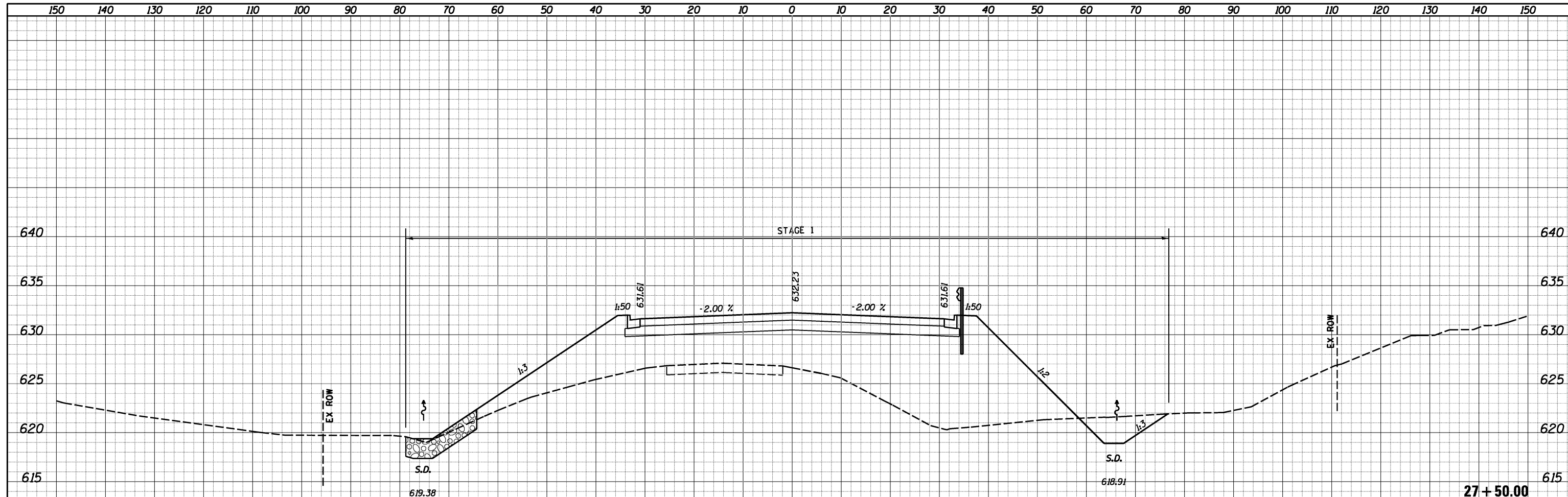
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=11	FILL=818	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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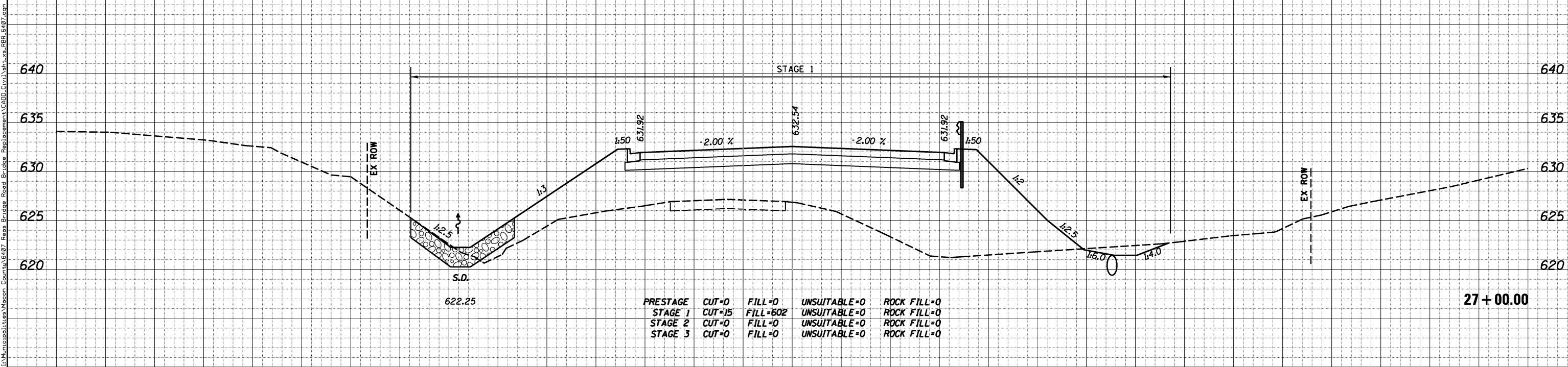


PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=721	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

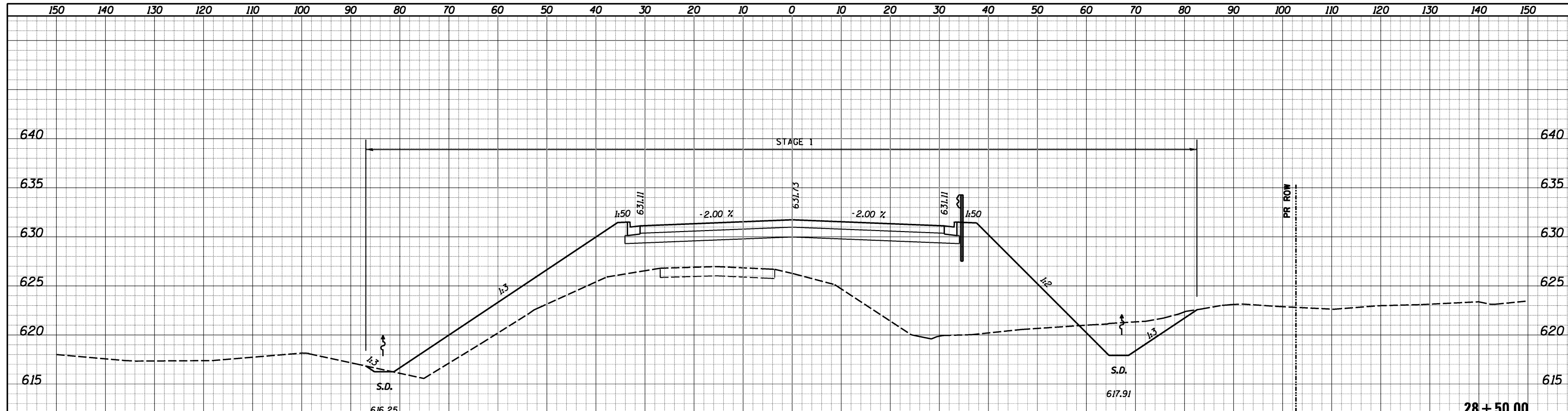
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINISH SURVEY	
NOTE BOOK	
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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DATE	
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SURVEYED	
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DATE	
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USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

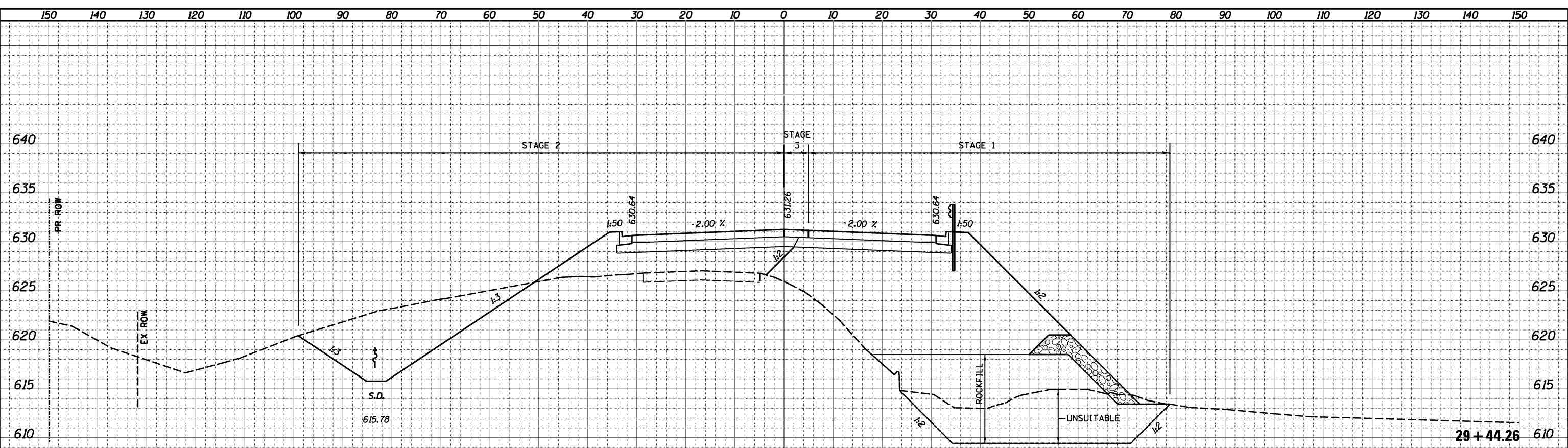
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA. 28+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	155
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=485	UNSUITABLE=215	ROCK FILL=382
STAGE 2	CUT=186	FILL=104	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=18	FILL=639	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

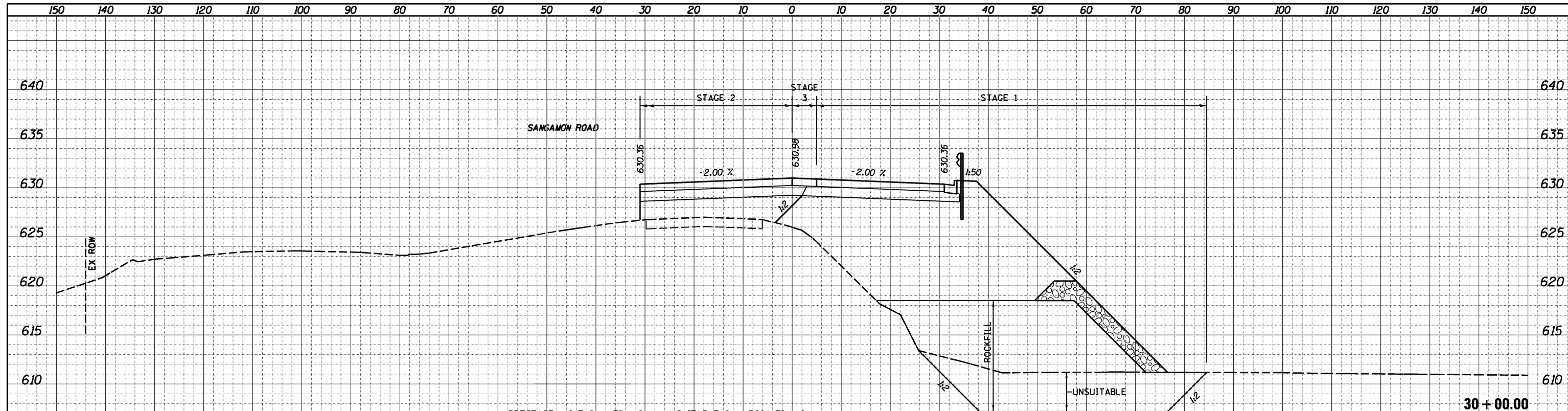
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - REAS BRIDGE ROAD  
CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA. 29+44.26

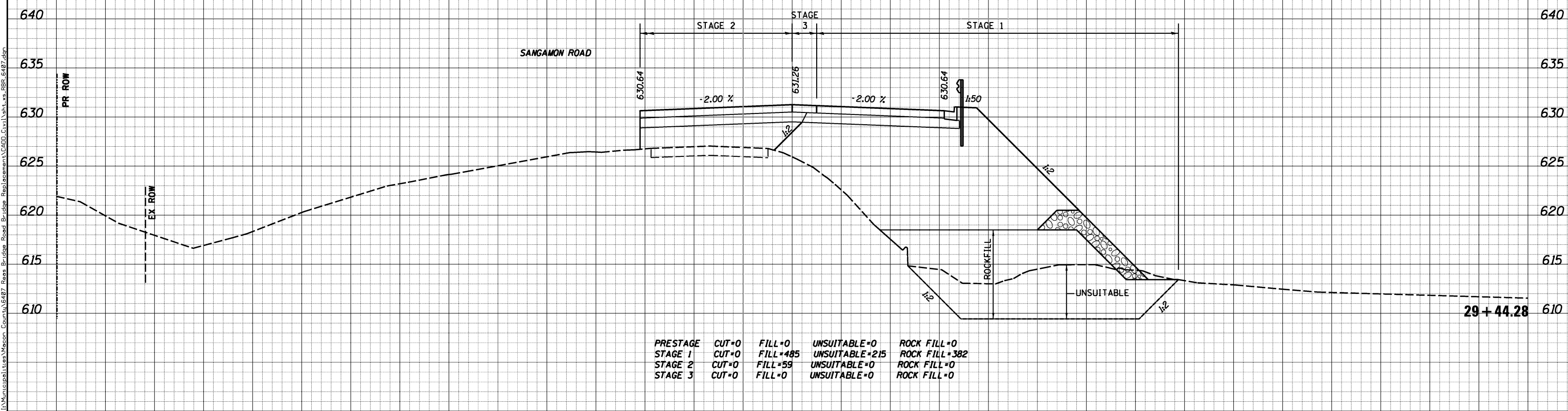
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	156
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
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PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=471	UNSUITABLE=199	ROCK FILL=481
STAGE 2	CUT=0	FILL=53	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

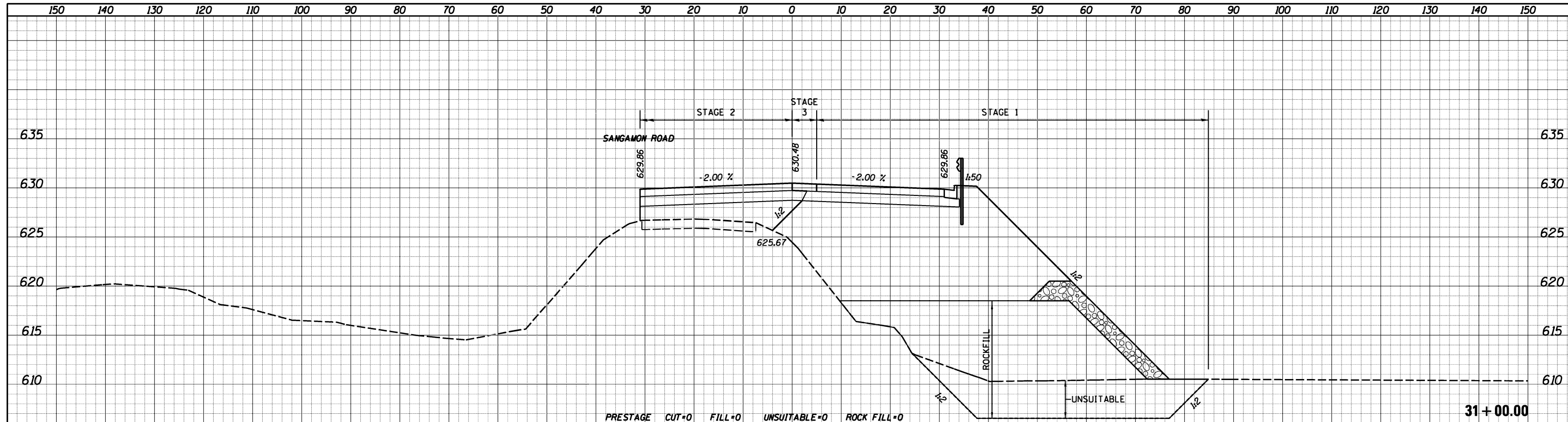
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=485	UNSUITABLE=215	ROCK FILL=382
STAGE 2	CUT=0	FILL=59	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

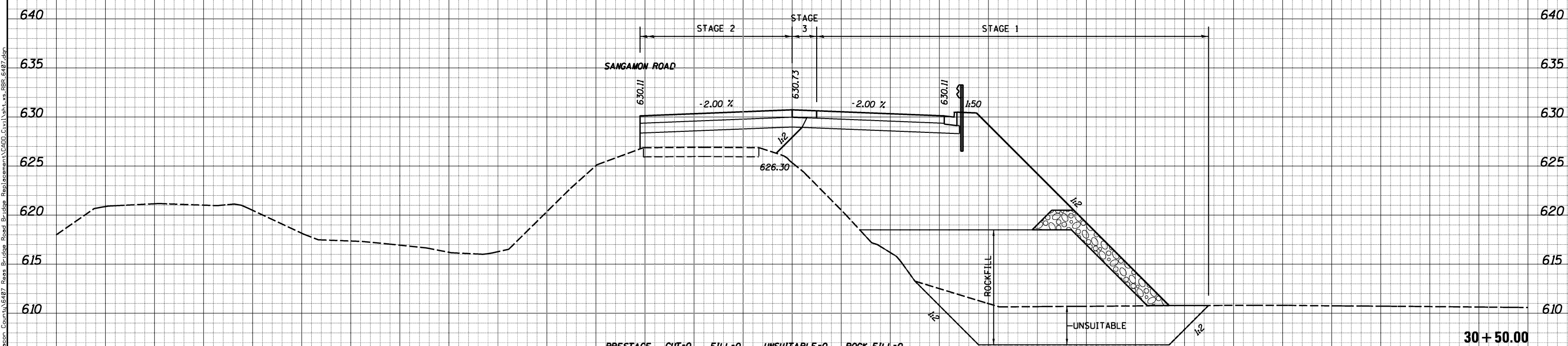
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
FINISH	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
ORIGINAL	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=473	UNSUITABLE=196	ROCK FILL=537
STAGE 2	CUT=0	FILL=57	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

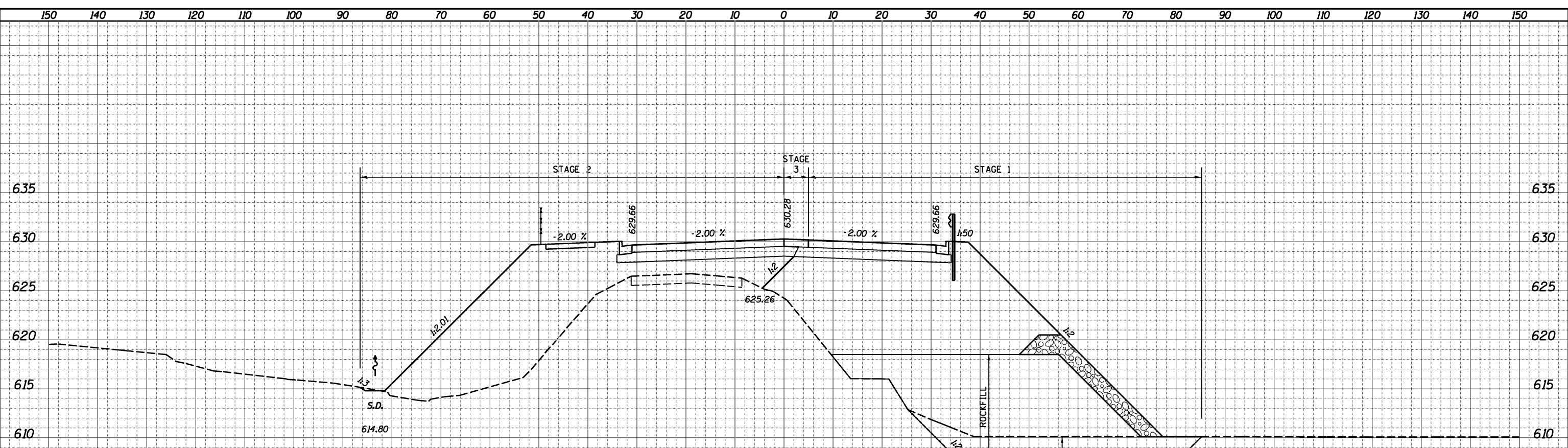
31 + 00.00



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=467	UNSUITABLE=199	ROCK FILL=514
STAGE 2	CUT=0	FILL=57	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

30 + 50.00

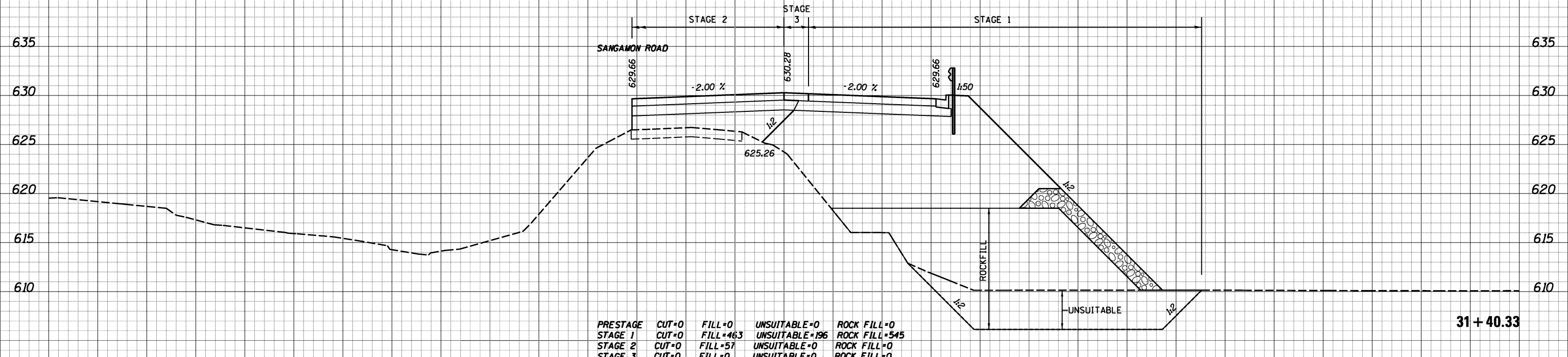
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=196	UNSUITABLE=196	ROCK FILL=545
STAGE 2	CUT=1	FILL=422	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

31 + 40.35

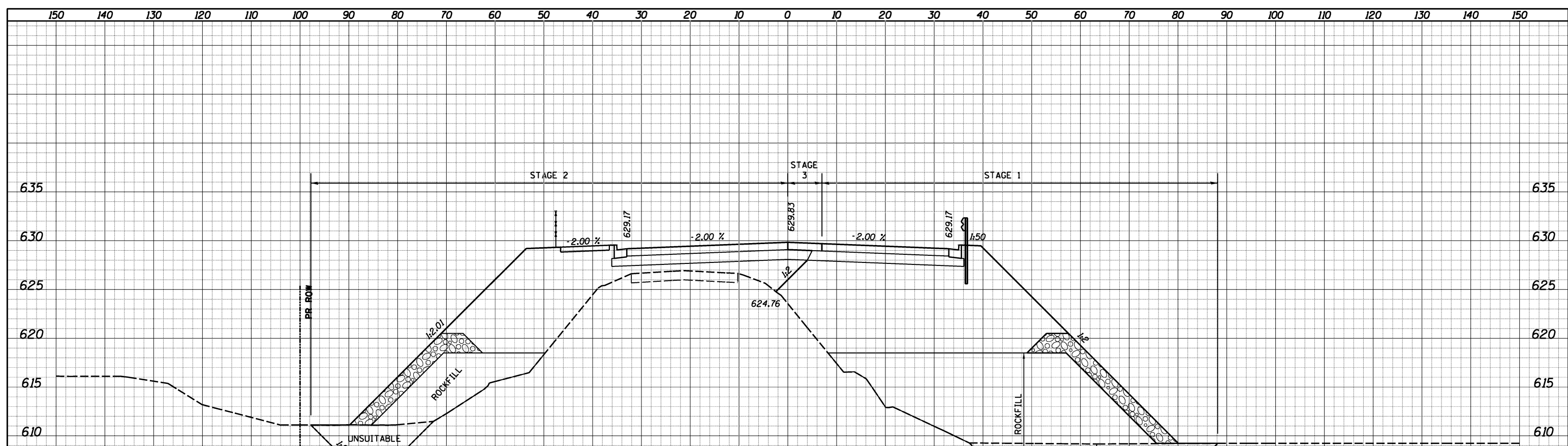
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=463	UNSUITABLE=196	ROCK FILL=545
STAGE 2	CUT=0	FILL=57	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

31 + 40.33

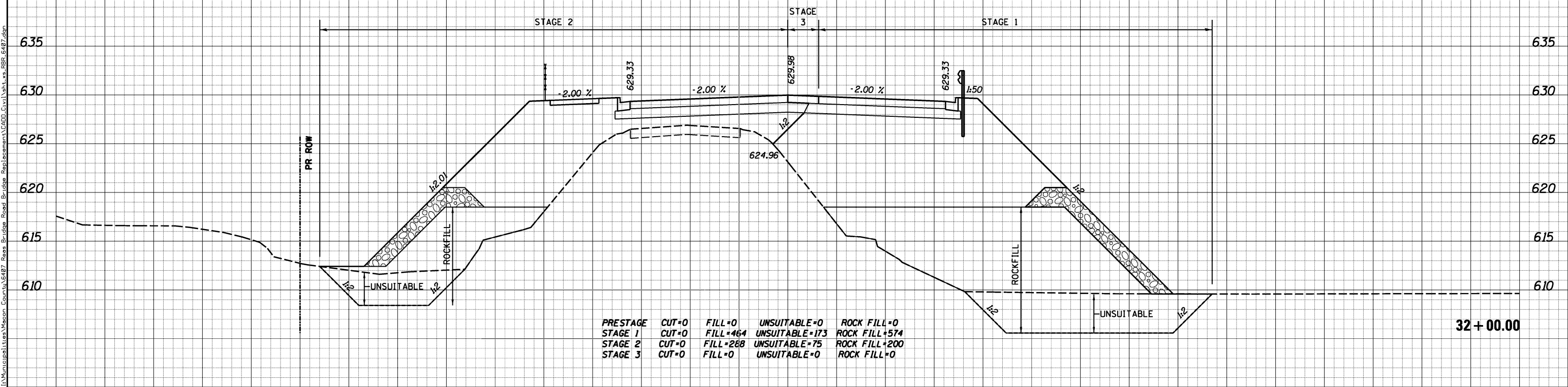
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
FINL SURVEY	
NOTE BOOK	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=453	UNSUITABLE=171	ROCK FILL=595
STAGE 2	CUT=0	FILL=279	UNSUITABLE=67	ROCK FILL=189
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

32 + 30.33

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=464	UNSUITABLE=173	ROCK FILL=574
STAGE 2	CUT=0	FILL=288	UNSUITABLE=75	ROCK FILL=200
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

32 + 00.00

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

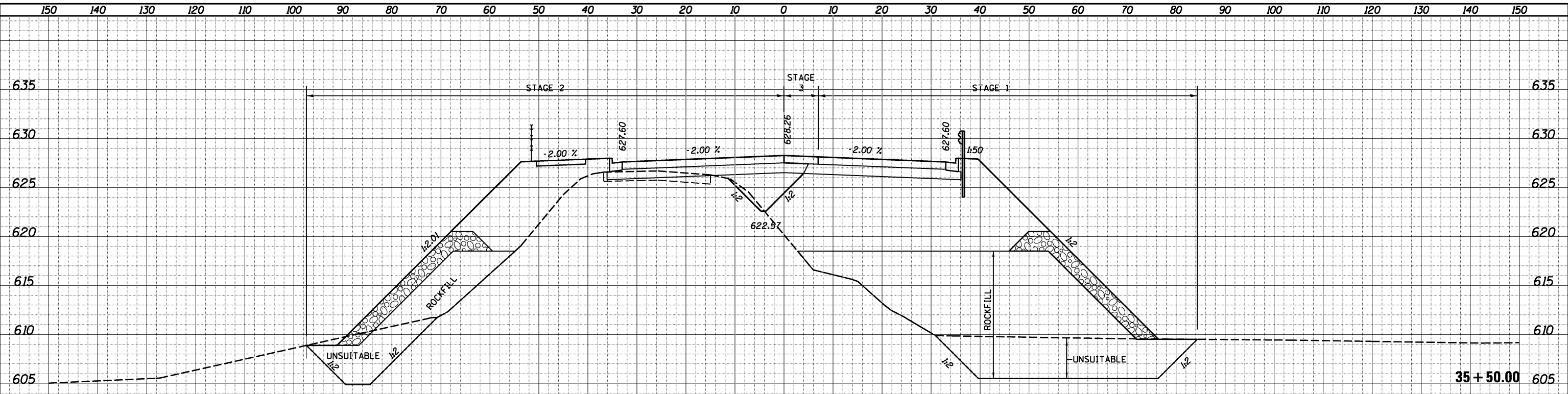
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS  
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**  
SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	160
				CONTRACT NO. 95912
ILLINOIS FED. AID PROJECT				

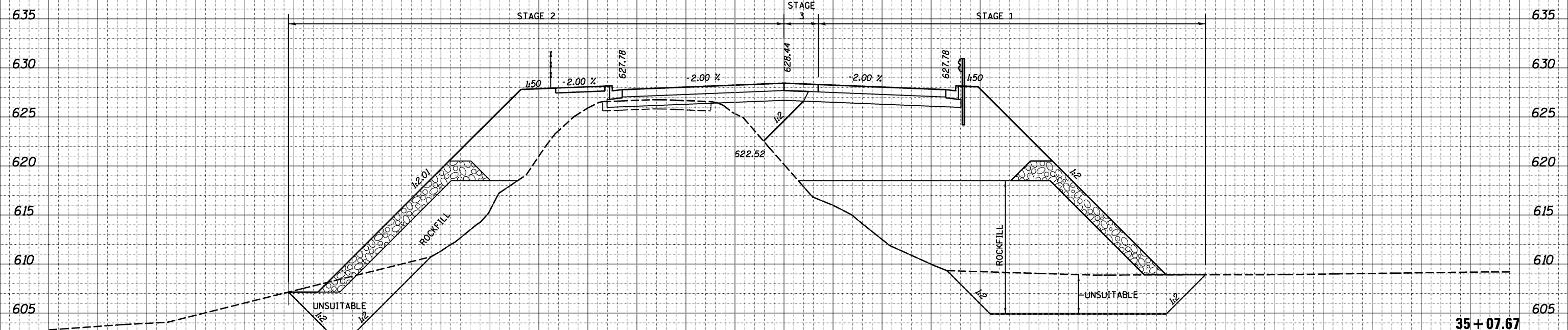


DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



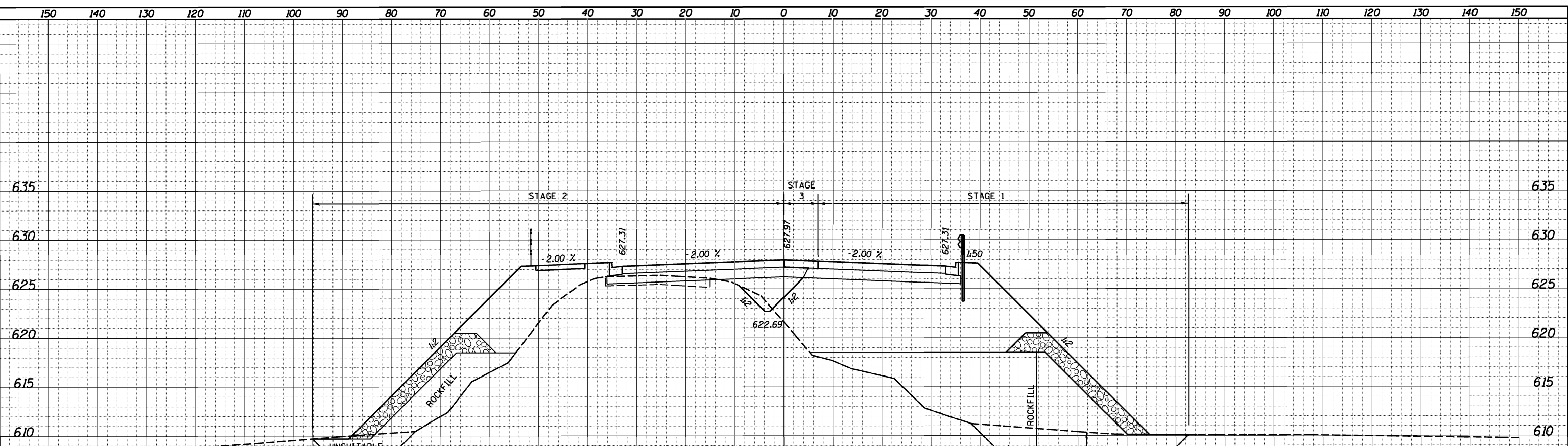
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=3	FILL=303	UNSUITABLE=187	ROCK FILL=590
STAGE 2	CUT=0	FILL=175	UNSUITABLE=83	ROCK FILL=162
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=394	UNSUITABLE=181	ROCK FILL=624
STAGE 2	CUT=0	FILL=197	UNSUITABLE=95	ROCK FILL=200
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

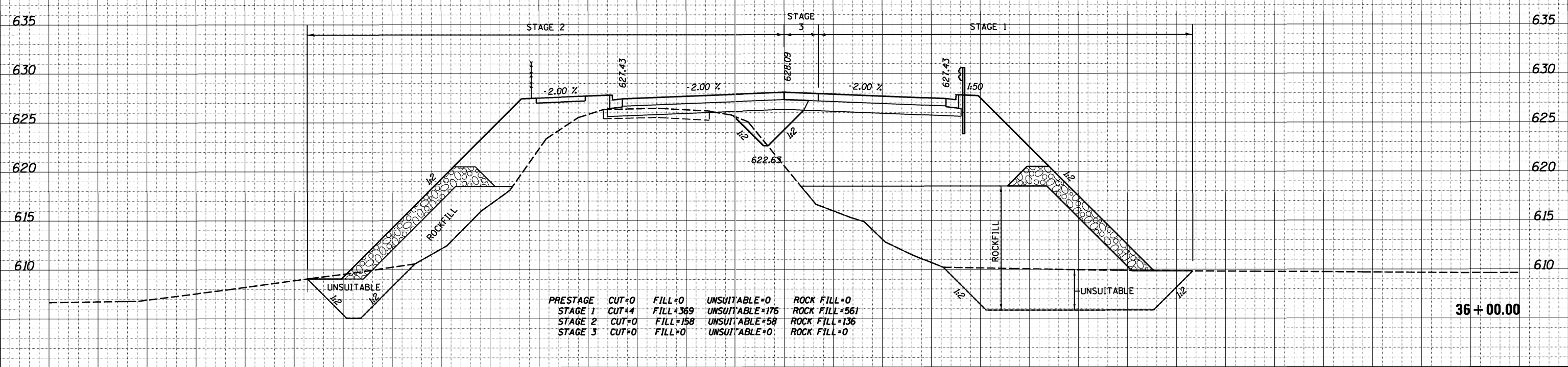
DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=5	FILL=355	UNSUITABLE=153	ROCK FILL=446
STAGE 2	CUT=0	FILL=158	UNSUITABLE=54	ROCK FILL=133
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

36 + 50.00

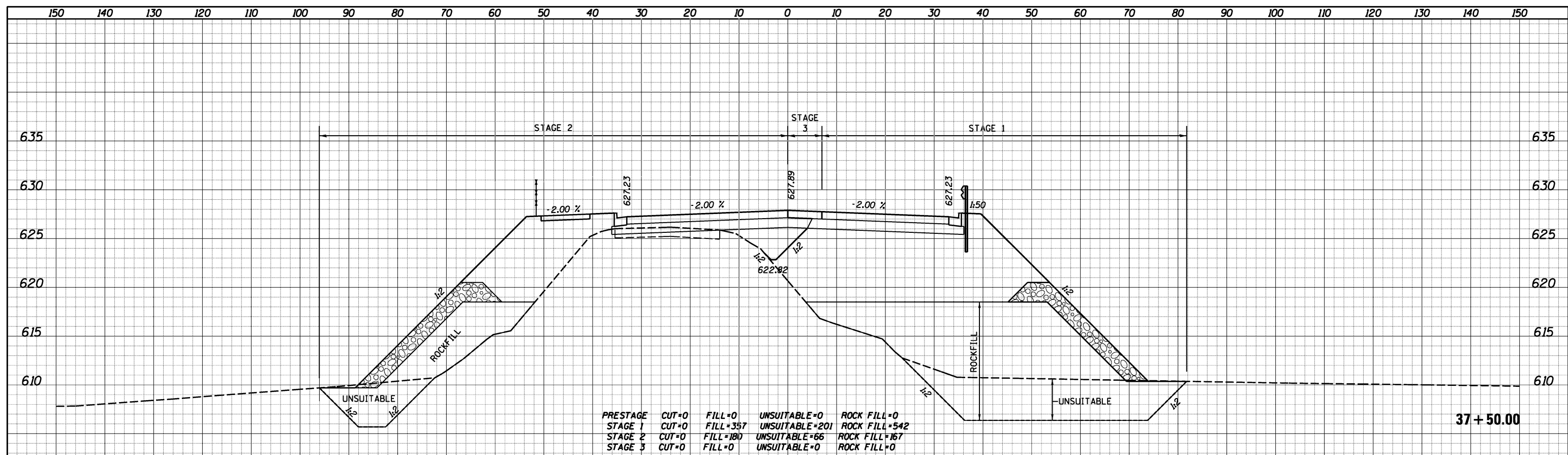
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=4	FILL=369	UNSUITABLE=176	ROCK FILL=561
STAGE 2	CUT=0	FILL=158	UNSUITABLE=58	ROCK FILL=136
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

36 + 00.00

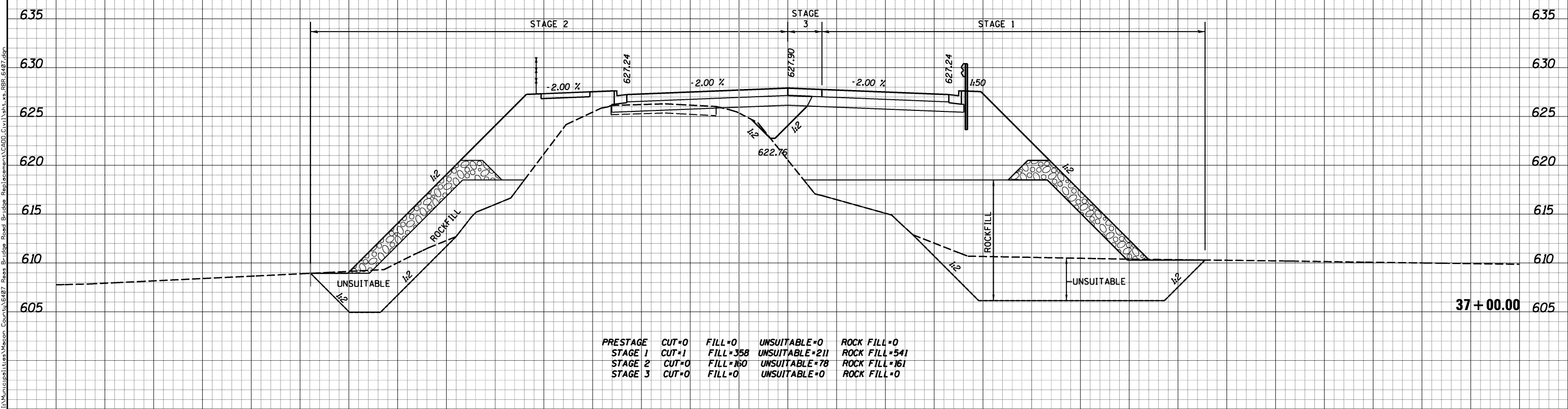
DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=357	UNSUITABLE=201	ROCK FILL=542
STAGE 2	CUT=0	FILL=180	UNSUITABLE=66	ROCK FILL=167
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

37 + 50.00

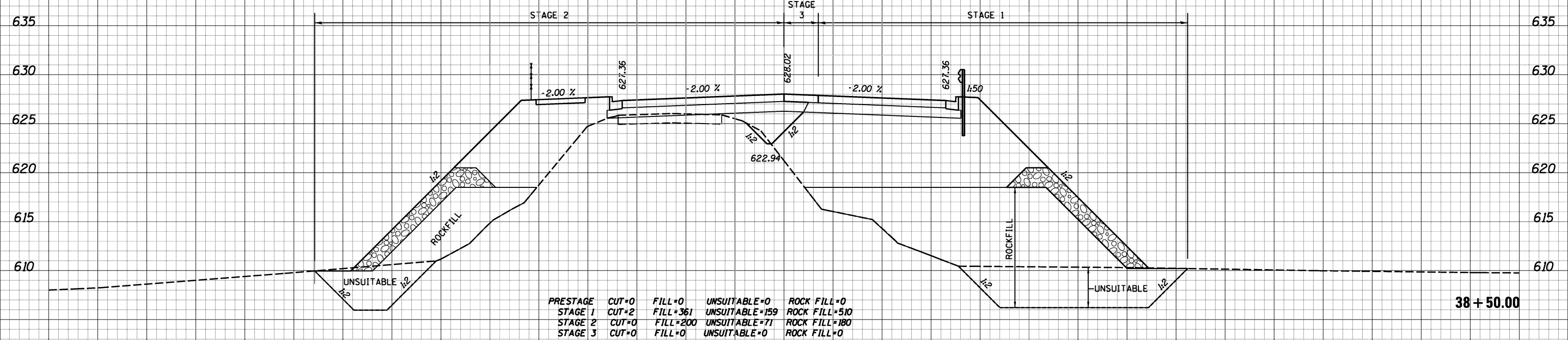
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



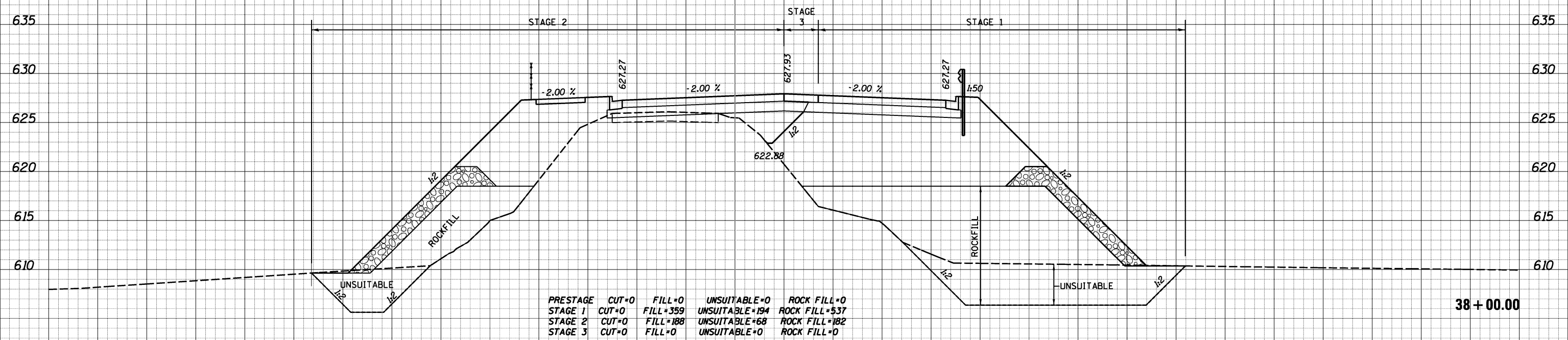
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=1	FILL=358	UNSUITABLE=211	ROCK FILL=541
STAGE 2	CUT=0	FILL=160	UNSUITABLE=78	ROCK FILL=161
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

37 + 00.00

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

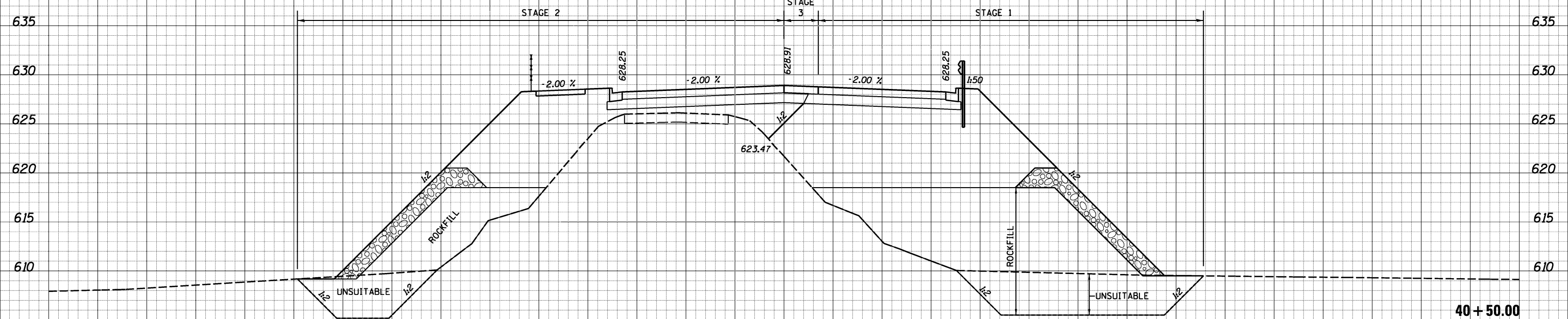
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS  
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**  
SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	164
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

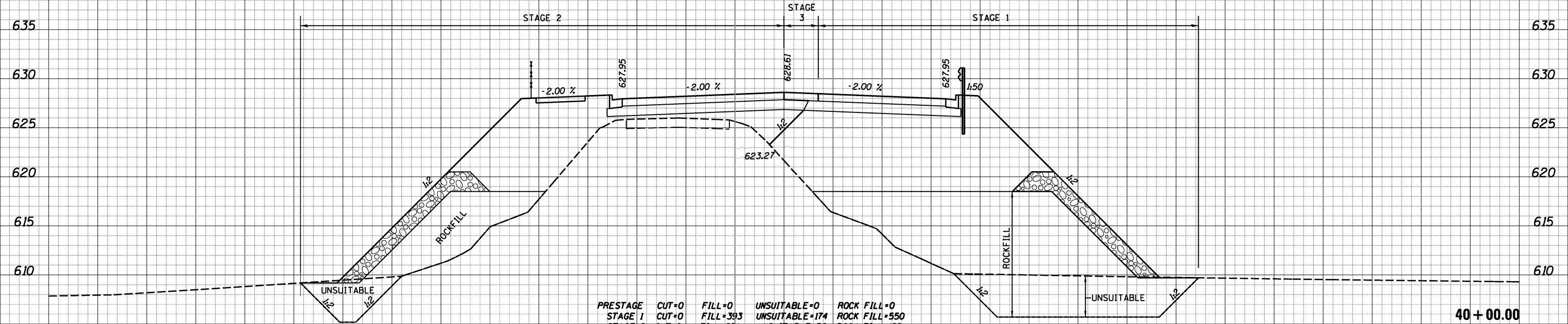


DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=411	UNSUITABLE=177	ROCK FILL=569
STAGE 2	CUT=0	FILL=270	UNSUITABLE=86	ROCK FILL=218
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
TEMPLATE	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=393	UNSUITABLE=174	ROCK FILL=550
STAGE 2	CUT=0	FILL=251	UNSUITABLE=52	ROCK FILL=188
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

1:\Municipalities\Wacon, County\487 Reas Bridge Road Bridge Replacement\CADD\Civil\Sheet\487 Reas BR 6407.dwg

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

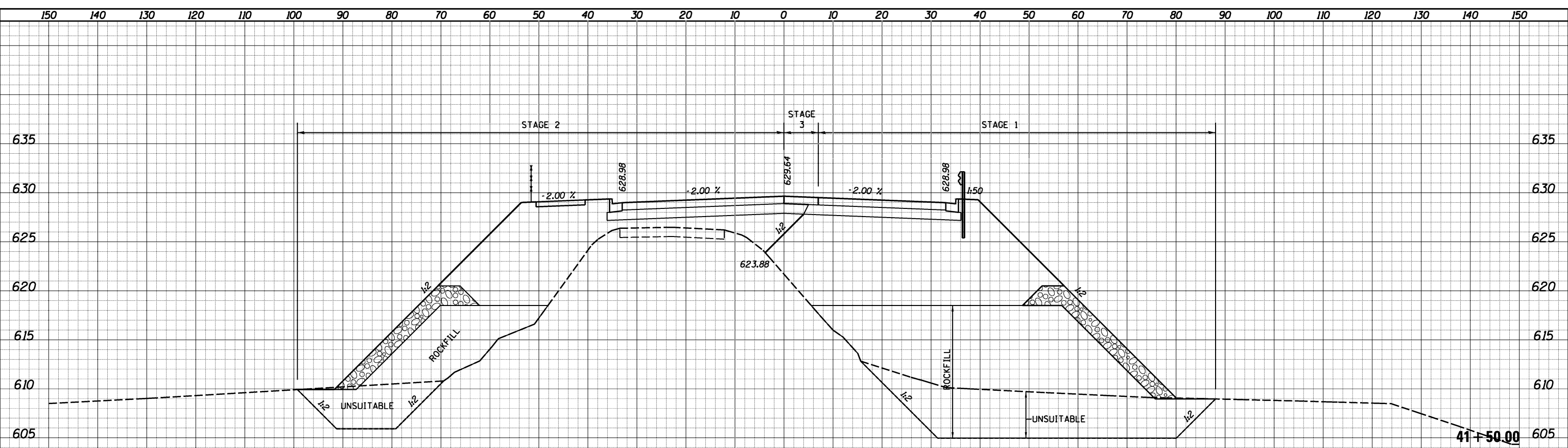
DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

CROSS SECTIONS - REAS BRIDGE ROAD			
CH 24 (REAS BRIDGE ROAD)			
SCALE: 10'H / 5'V	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	166
				CONTRACT NO. 95912
ILLINOIS FED. AID PROJECT				

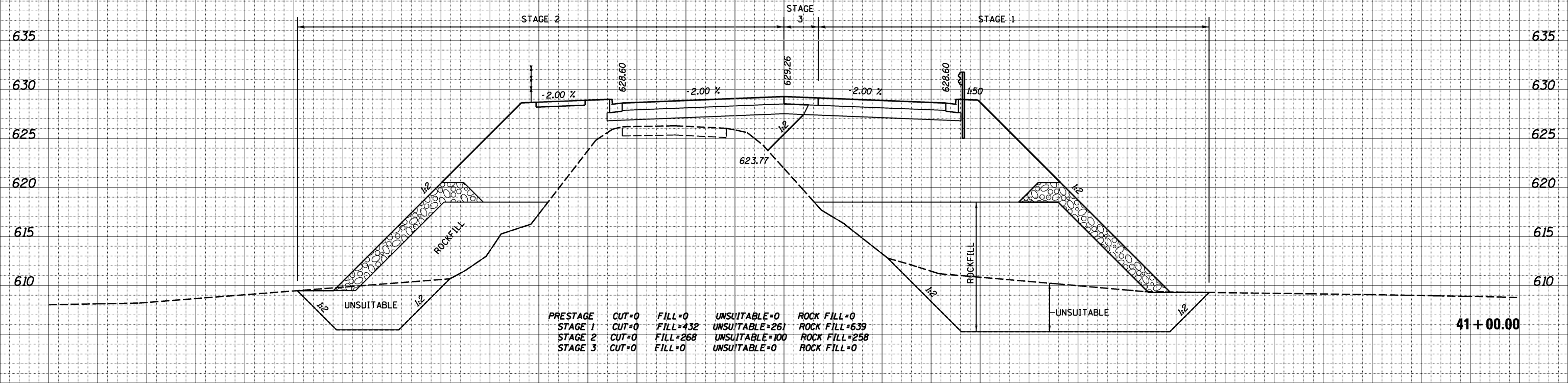


DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	



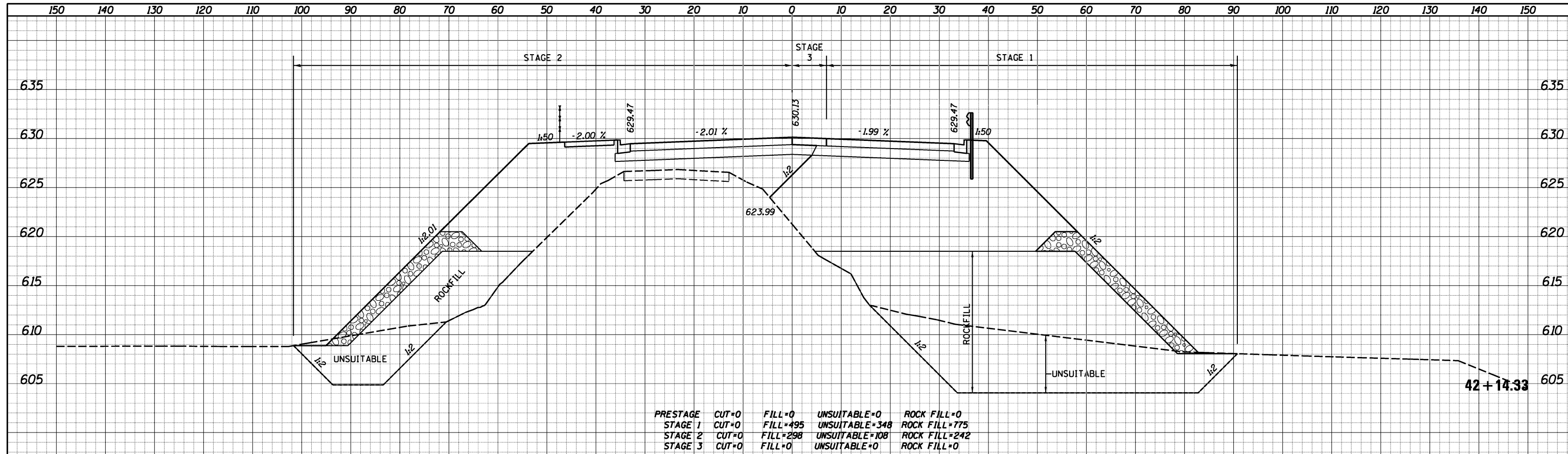
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=458	UNSUITABLE=282	ROCK FILL=721
STAGE 2	CUT=0	FILL=93	UNSUITABLE=288	ROCK FILL=247
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	



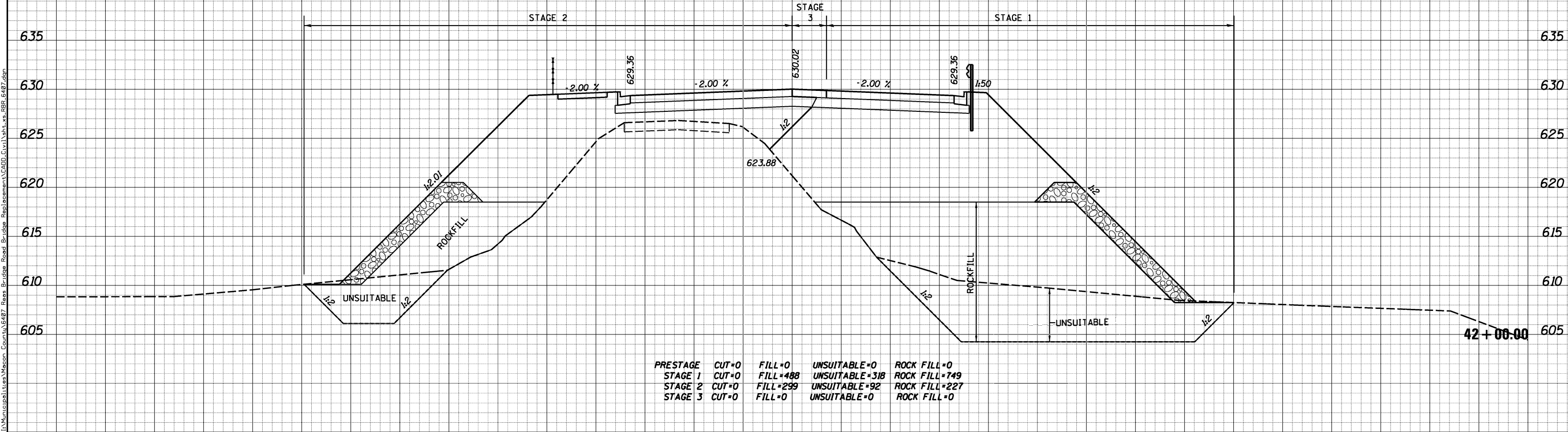
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=432	UNSUITABLE=261	ROCK FILL=639
STAGE 2	CUT=0	FILL=268	UNSUITABLE=100	ROCK FILL=258
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
FINISH SURVEY	
NOTE BOOK	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=495	UNSUITABLE=348	ROCK FILL=775
STAGE 2	CUT=0	FILL=298	UNSUITABLE=108	ROCK FILL=242
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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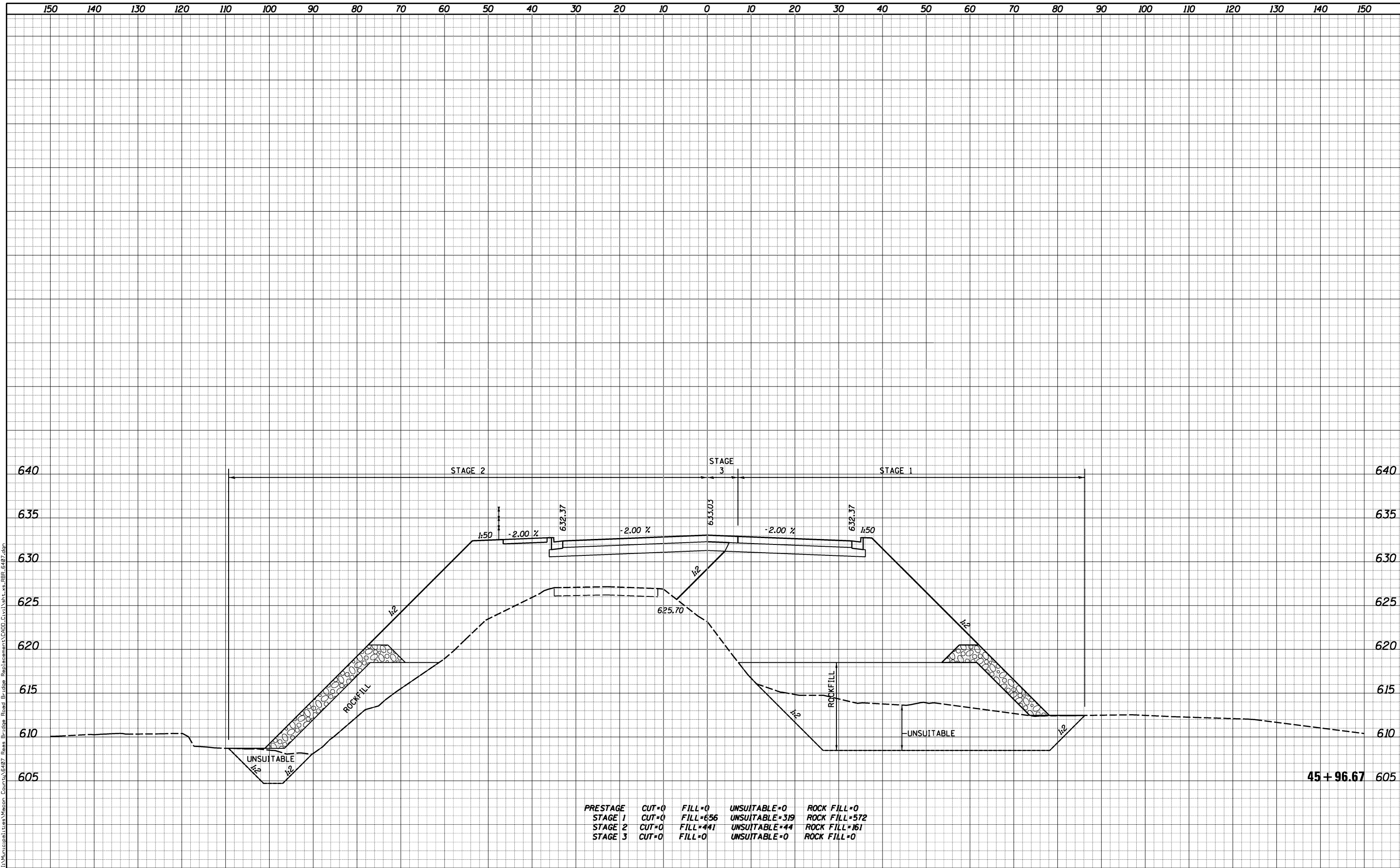


PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=488	UNSUITABLE=318	ROCK FILL=749
STAGE 2	CUT=0	FILL=299	UNSUITABLE=92	ROCK FILL=227
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0



DATE	
BY	
FINISHED SURVEY	
NOTED BOOK	
NO.	
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TEMPLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=656	UNSUITABLE=319	ROCK FILL=572
STAGE 2	CUT=0	FILL=441	UNSUITABLE=44	ROCK FILL=161
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/19/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

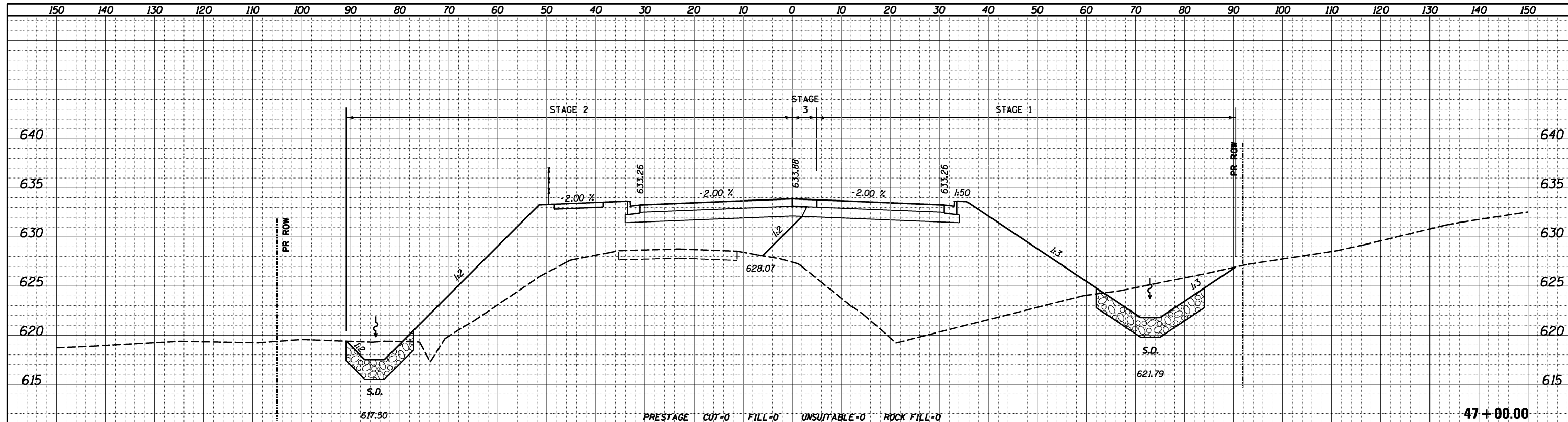
**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	169
				<b>CONTRACT NO. 95912</b>

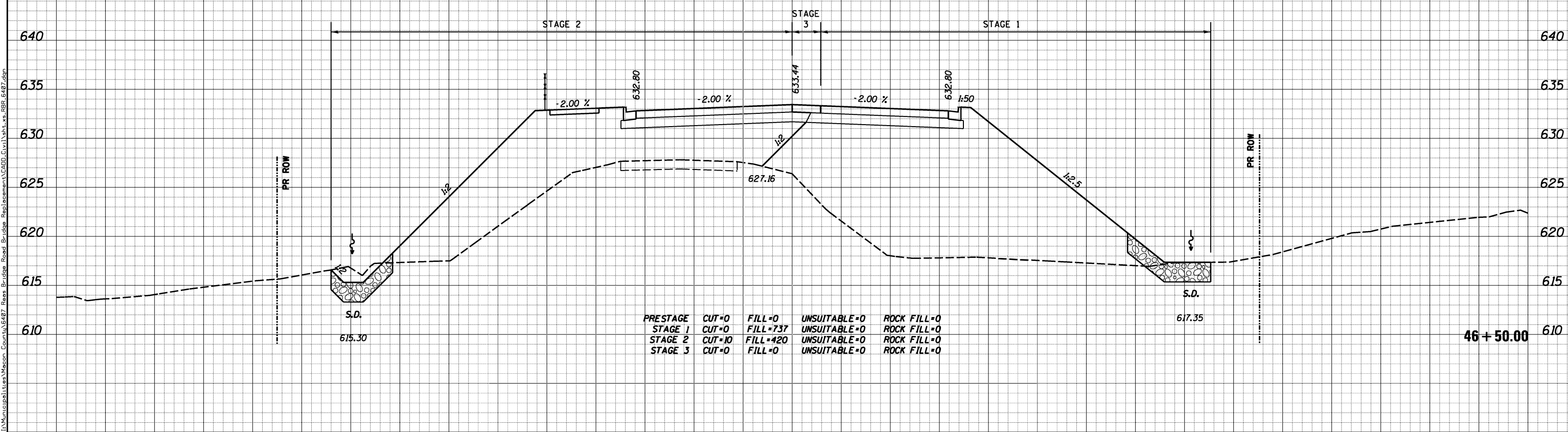
ILLINOIS FED. AID PROJECT

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



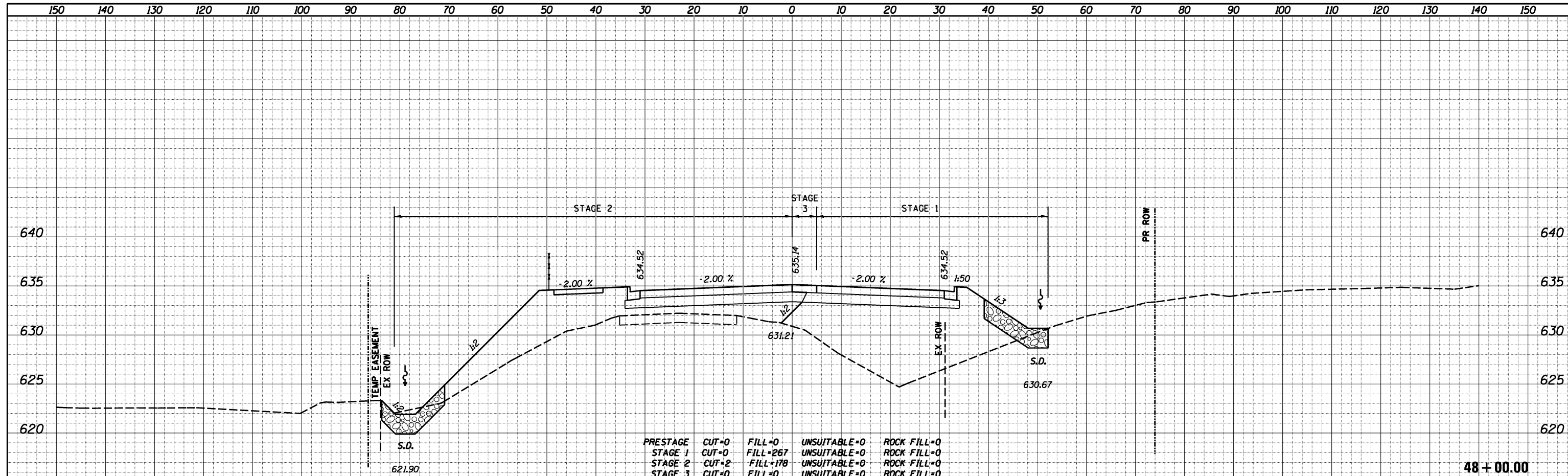
PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=52	FILL=737	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=14	FILL=335	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

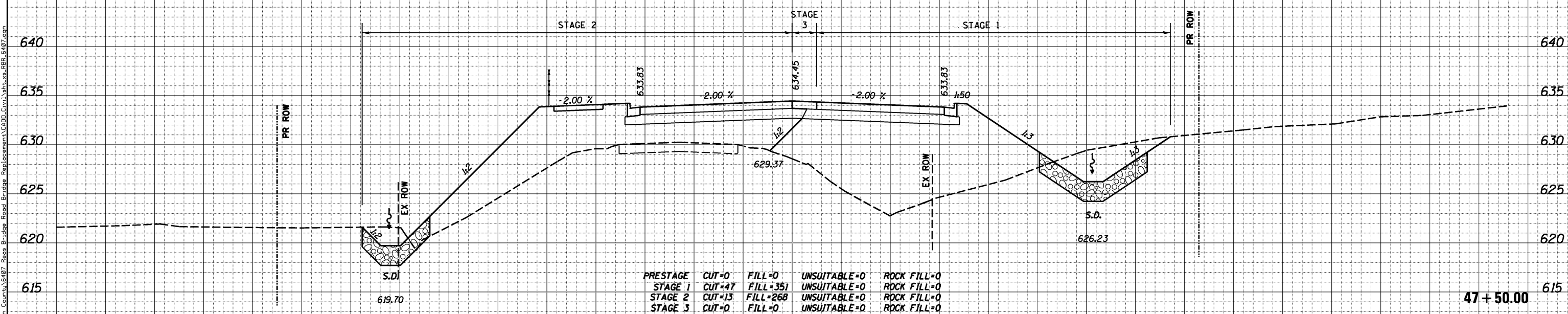


PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=0	FILL=737	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=10	FILL=420	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

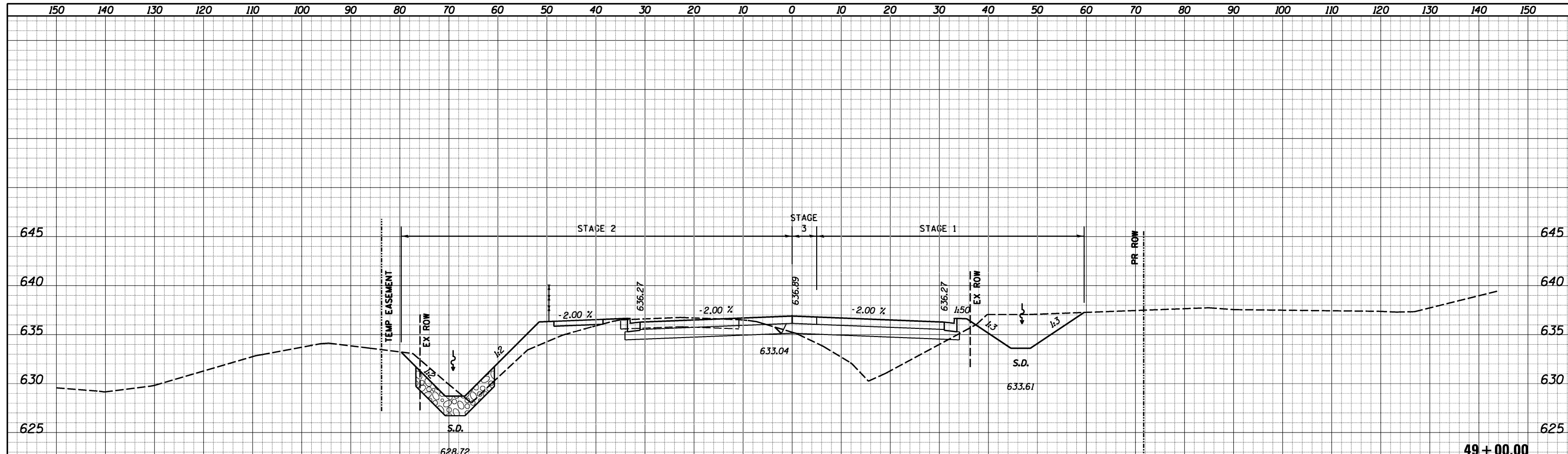
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NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



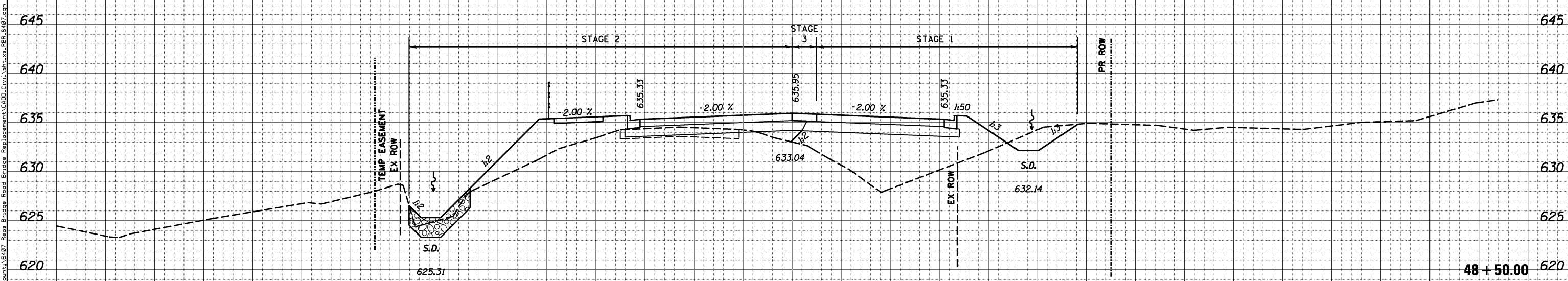
DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=49	FILL=70	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=45	FILL=36	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

49+00.00

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

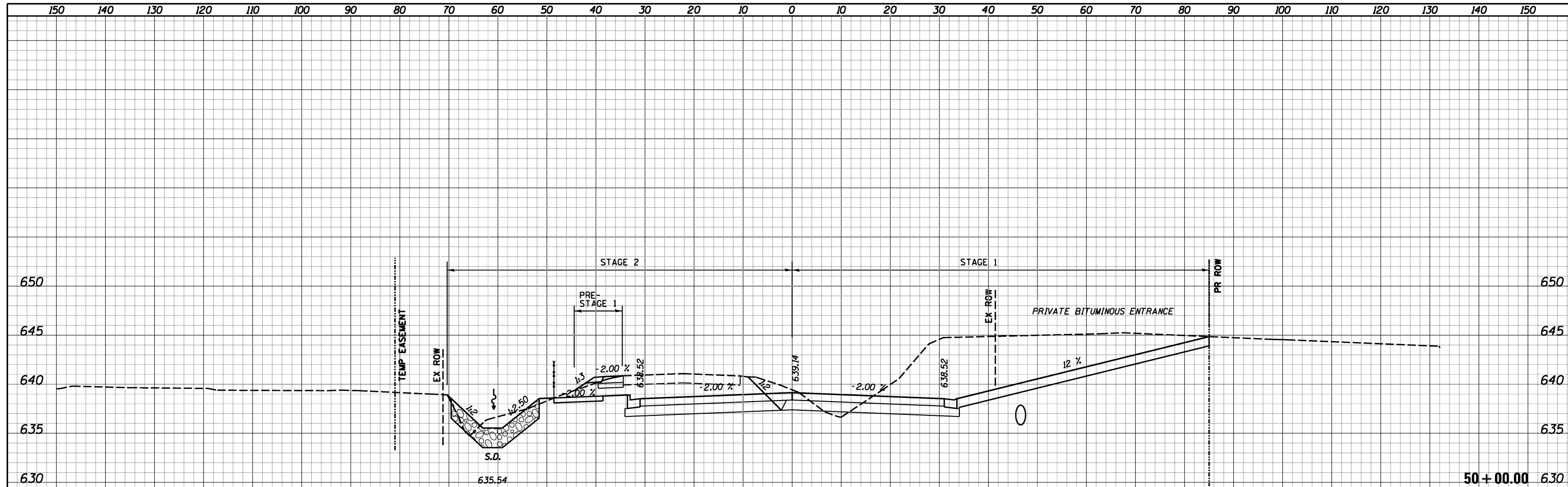


PRESTAGE	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=18	FILL=152	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=1	FILL=85	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

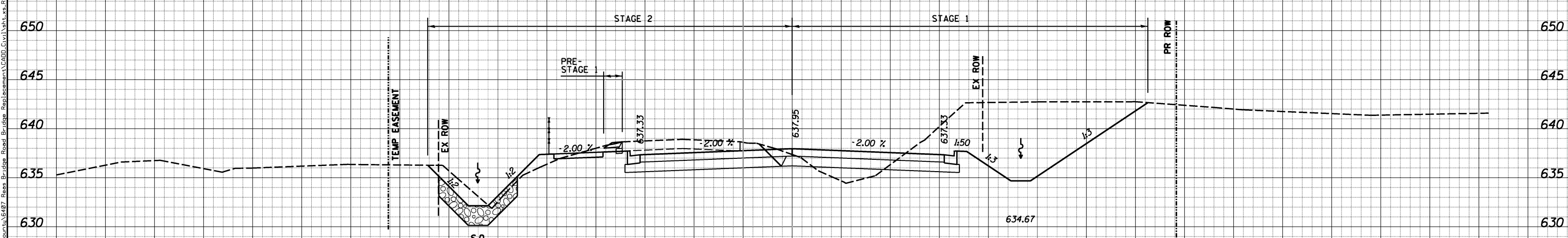
48+50.00

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



PRESTAGE	CUT=5	FILL=1	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=362	FILL=2	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=114	FILL=10	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0



PRESTAGE	CUT=2	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=252	FILL=13	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=86	FILL=10	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

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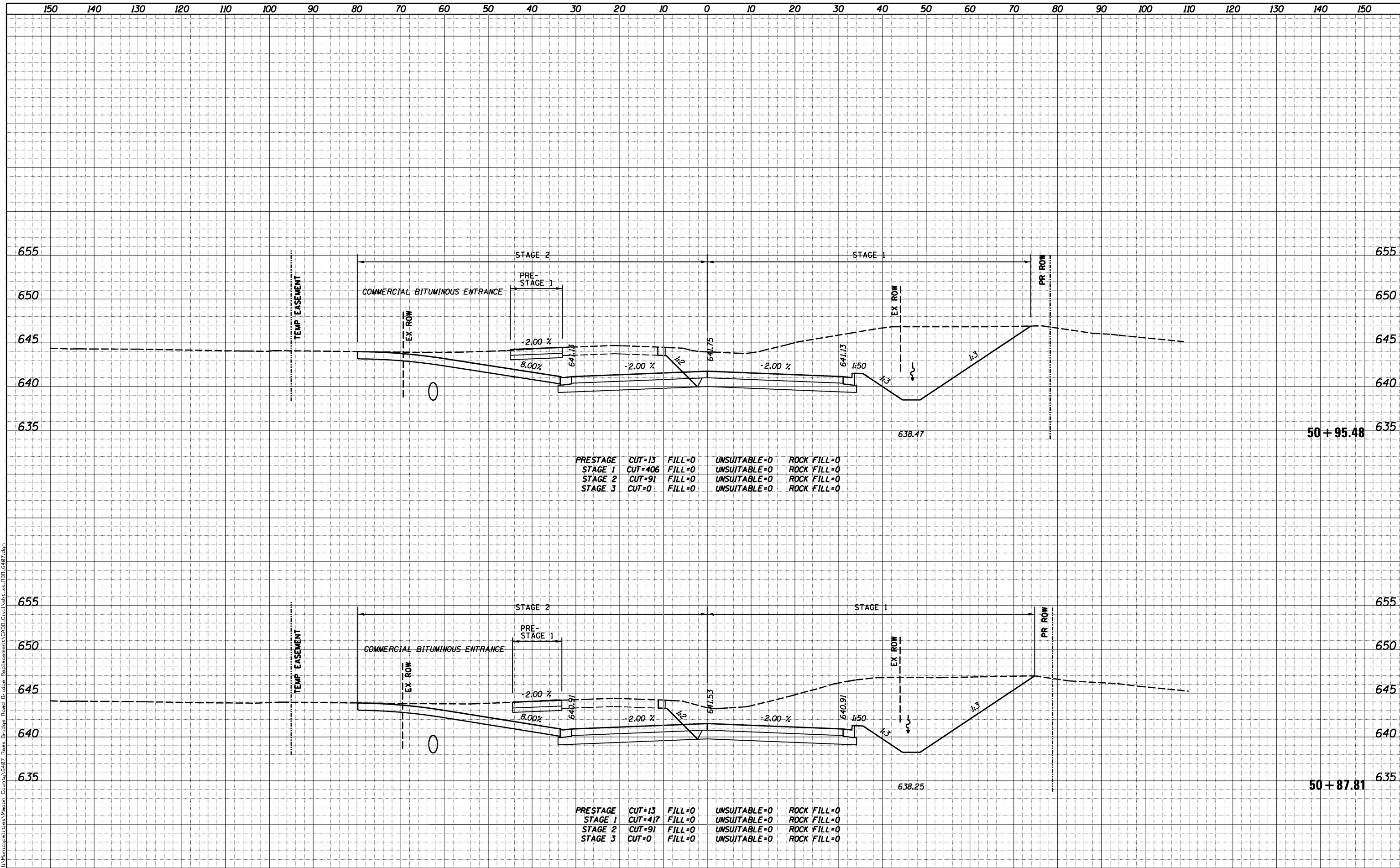
**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**  
SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. 49+50.00 TO STA. .

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	173
			CONTRACT NO. 95912	
ILLINOIS FED. AID PROJECT				



DATE	
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FINISHED SURVEY	
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TEMPLATE	
AREAS CHECKED	
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ORIGINAL SURVEY	
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AREAS CHECKED	
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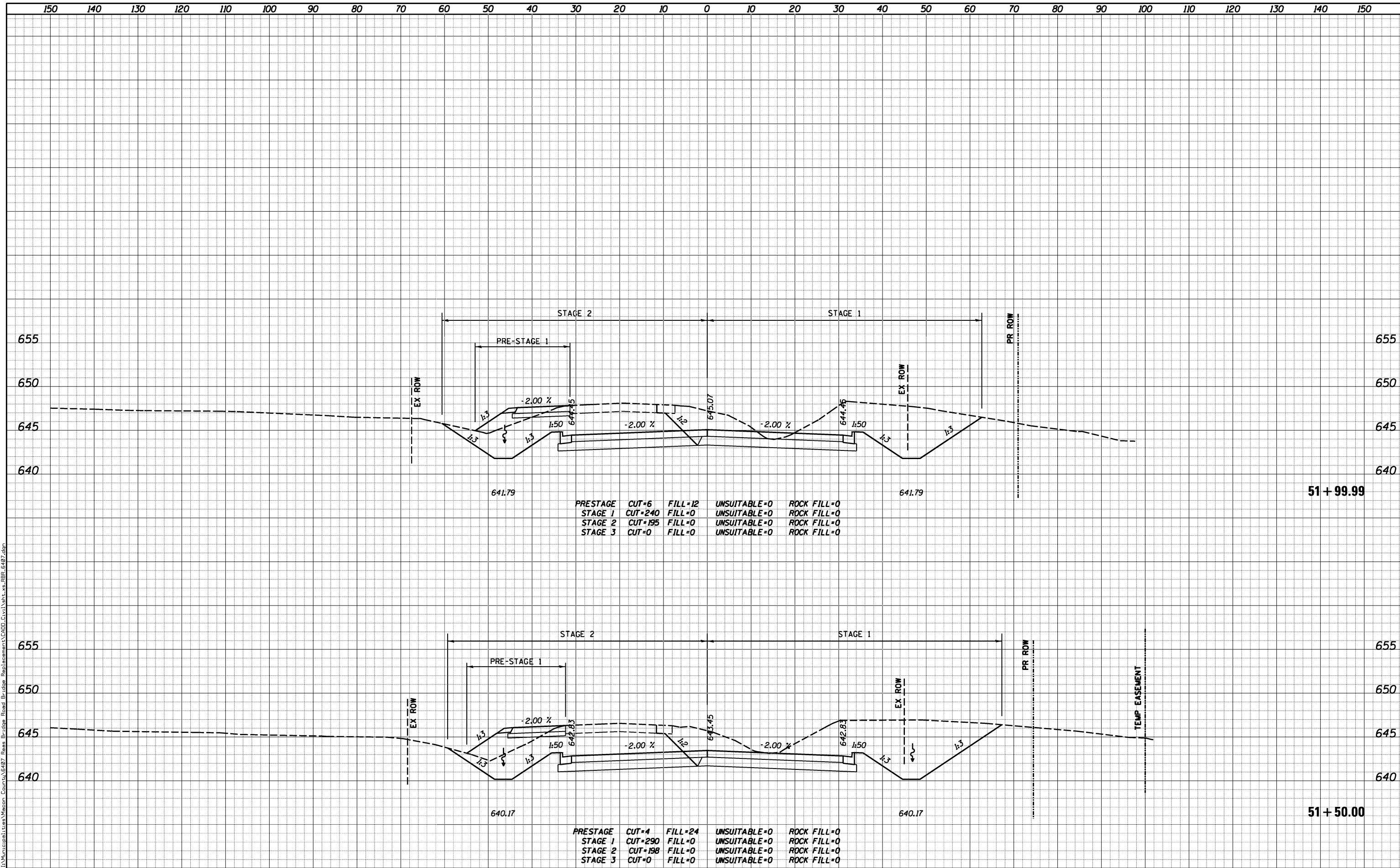






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ORIGINAL	
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PRESTAGE	CUT=6	FILL=12	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=240	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=195	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

PRESTAGE	CUT=4	FILL=24	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=290	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=198	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

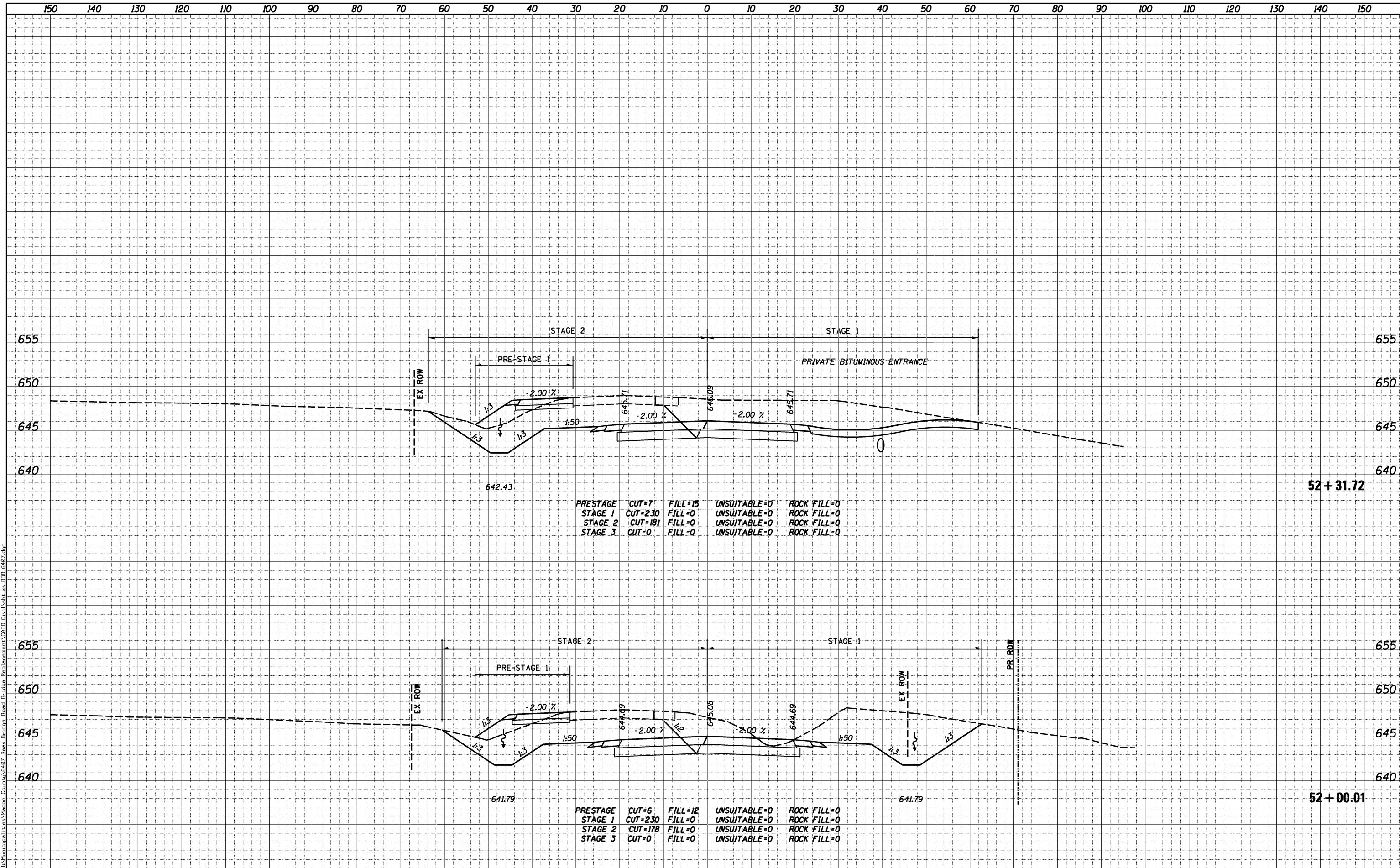
**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	177
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

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TEMPLATE	
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CHECKED	
FINISH	
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TEMPLATE	
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PRESTAGE	CUT=7	FILL=15	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=230	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=181	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

PRESTAGE	CUT=6	FILL=12	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=230	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=178	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

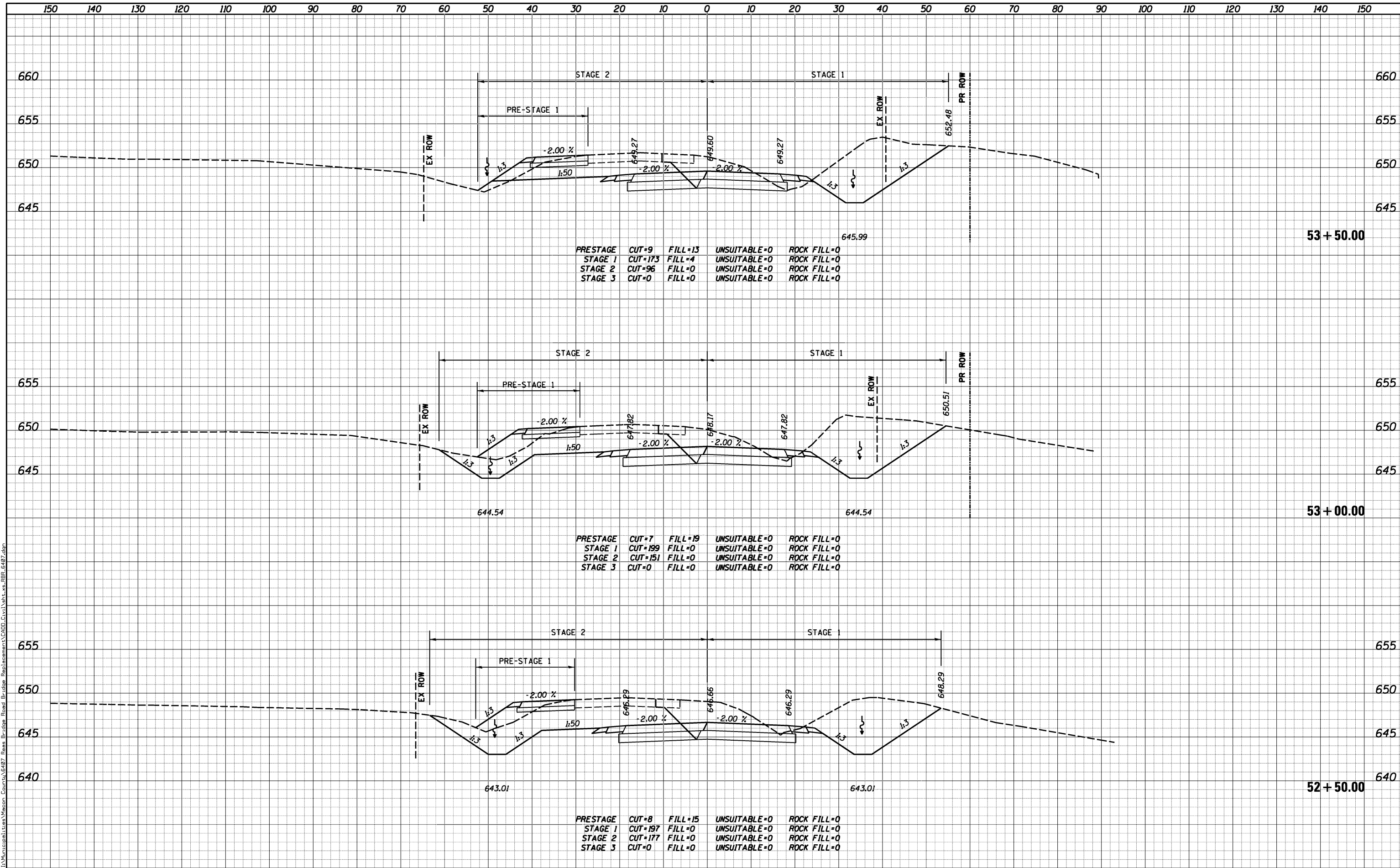
**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. 52+00.01 TO STA. .

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	178
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

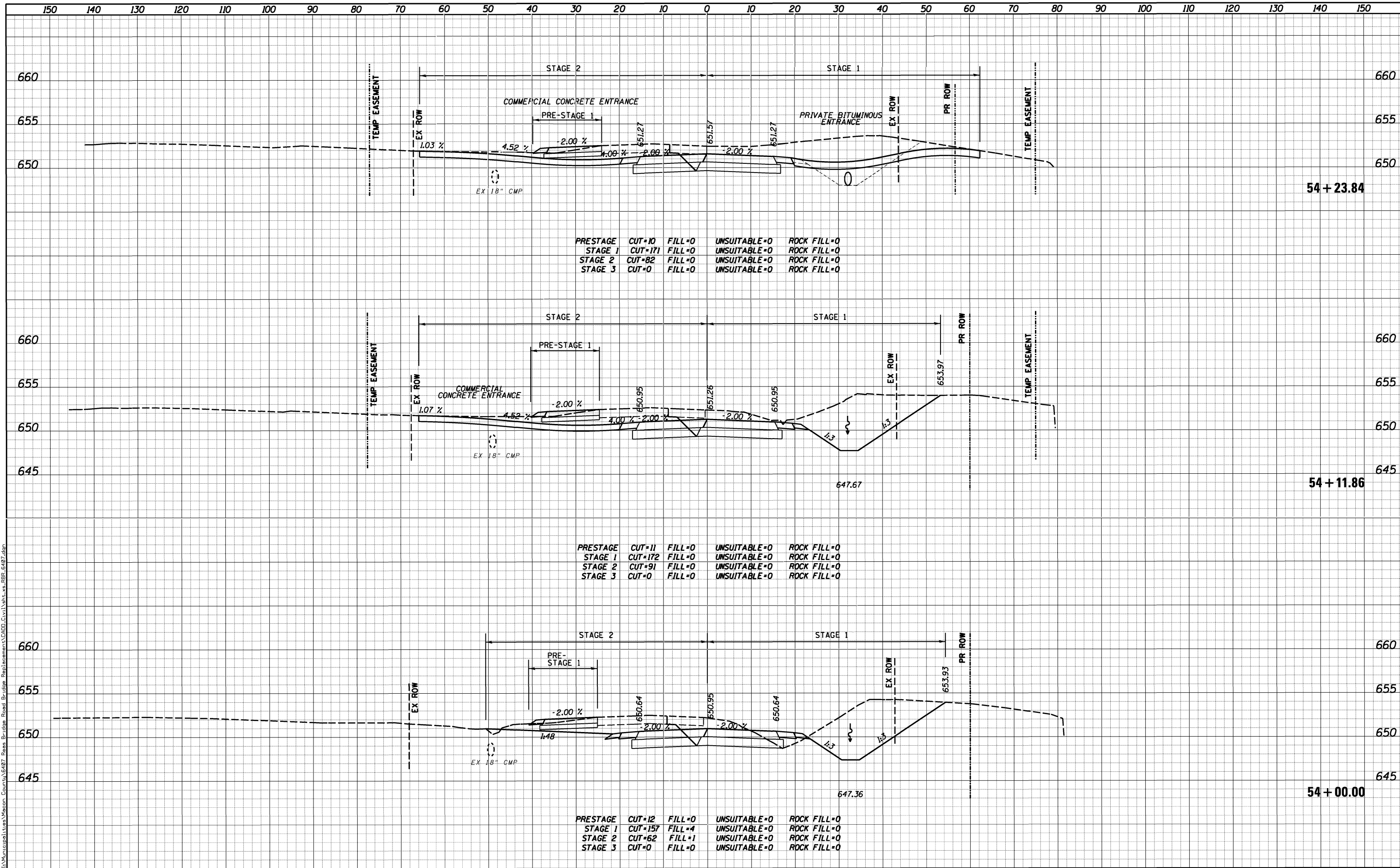
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ORIGINAL SURVEY	
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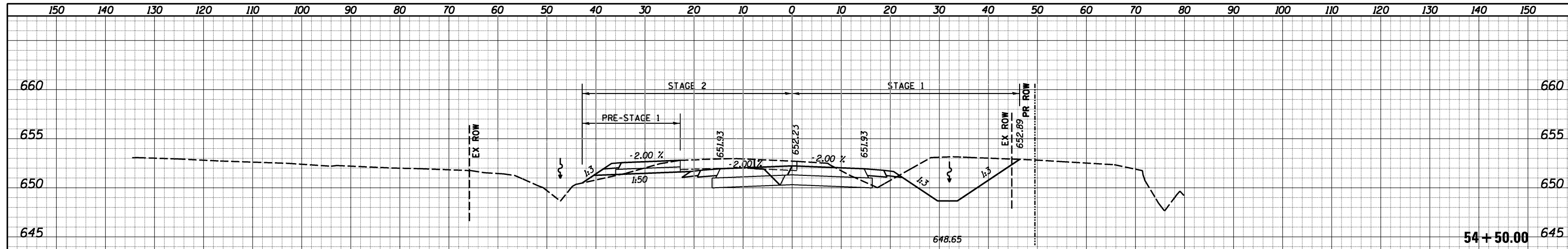
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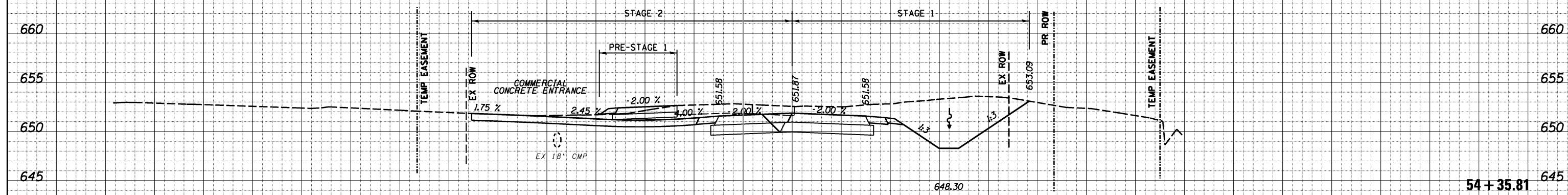
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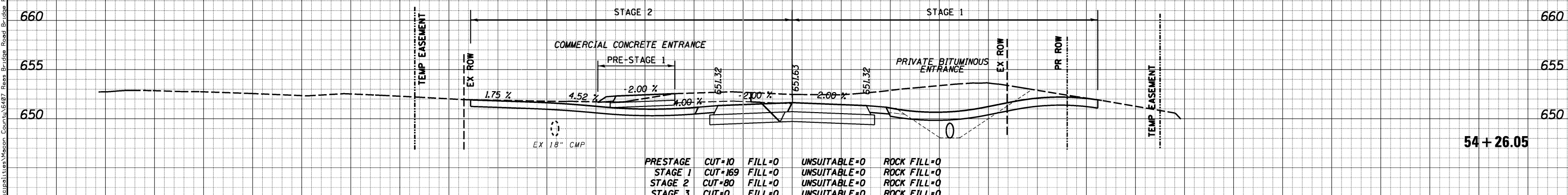
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TEMPLATE	
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PRESTAGE	CUT=8	FILL=4	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=99	FILL=4	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=37	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0



PRESTAGE	CUT=11	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=152	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=76	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0



PRESTAGE	CUT=10	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=169	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=80	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

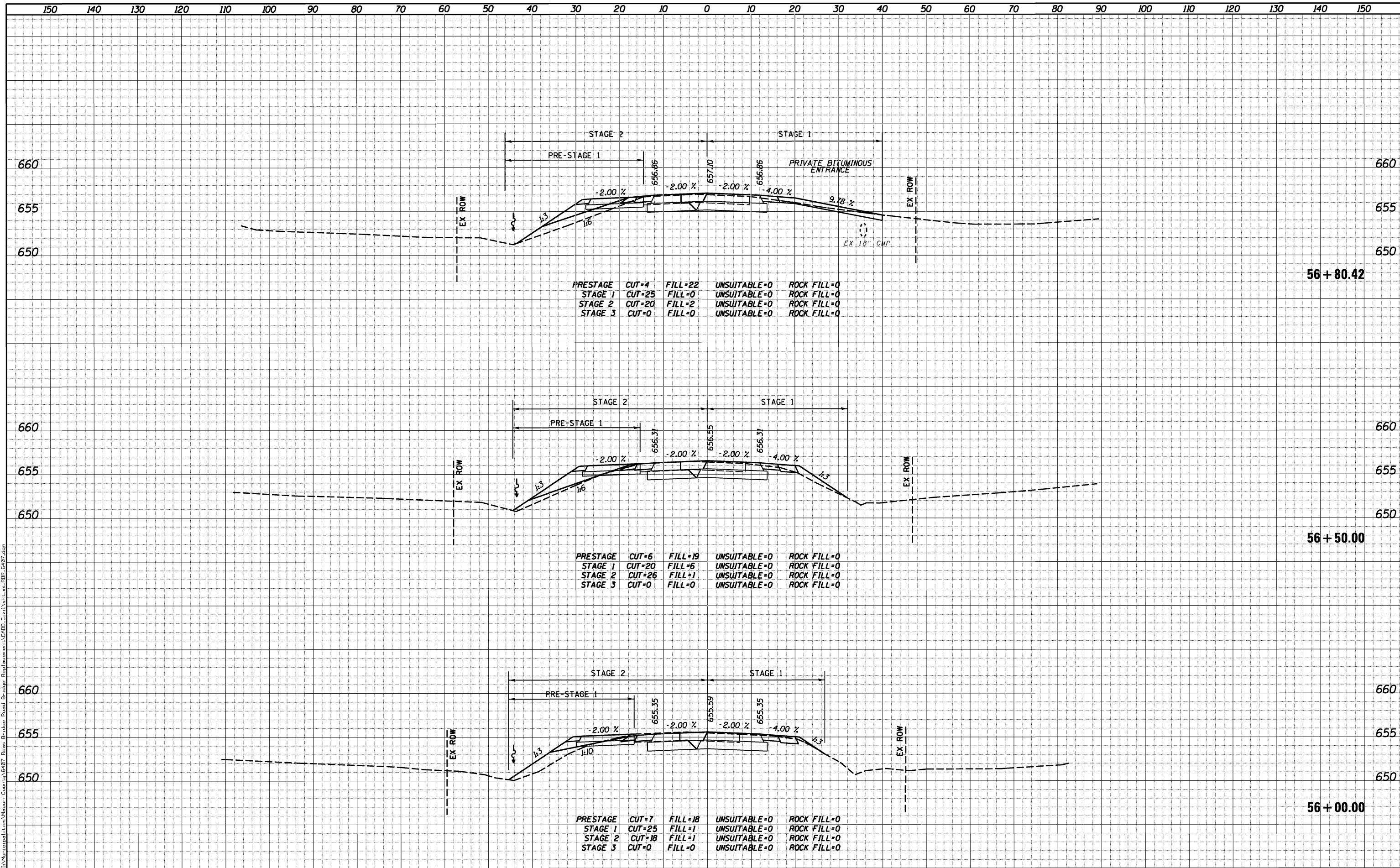
SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	181
				CONTRACT NO. 95912
ILLINOIS FED. AID PROJECT				



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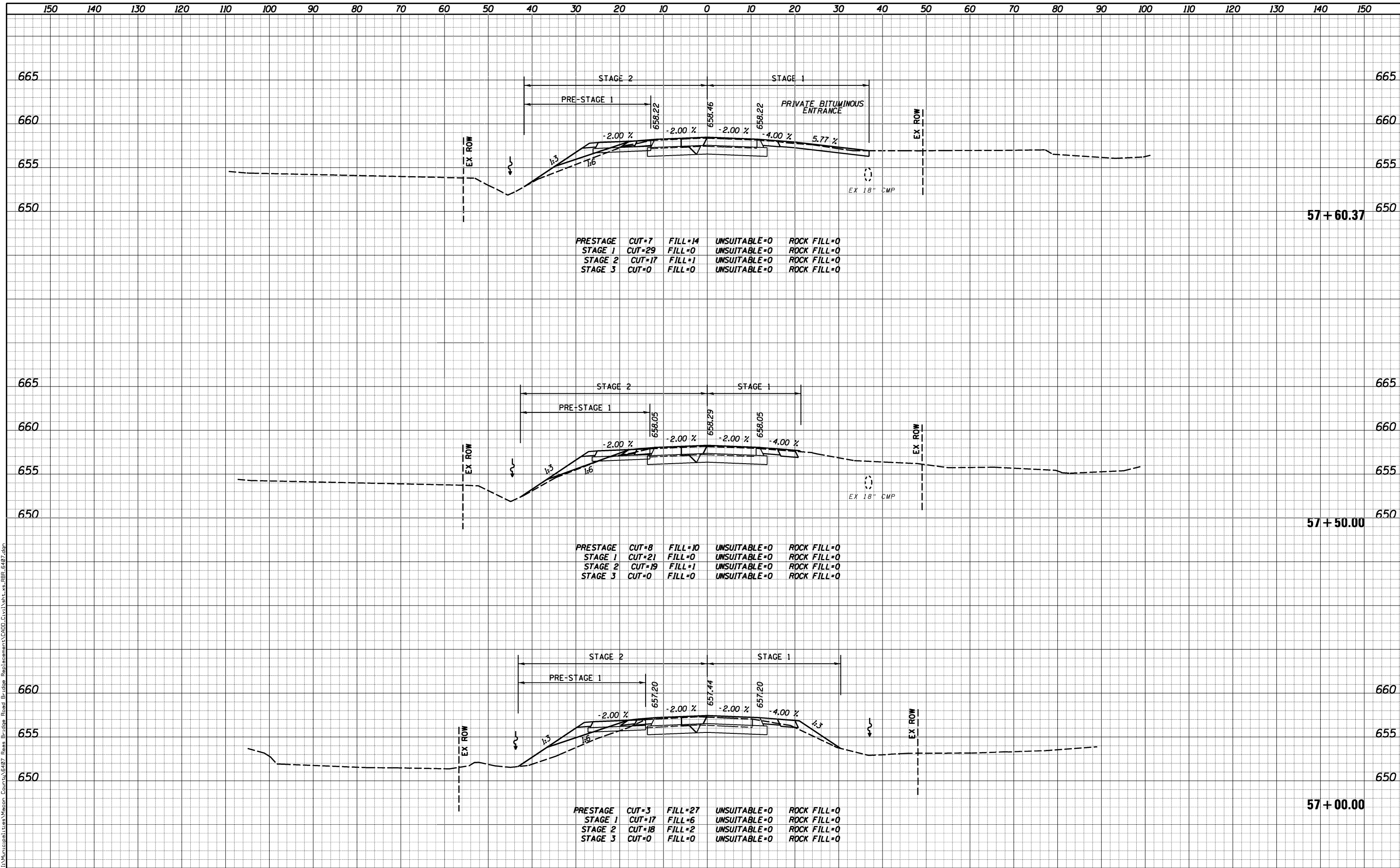
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USER NAME = j_buening	DESIGNED -	REVISED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (217) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - REAS BRIDGE ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 183
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -				SCALE: 10'H / 5'V	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 95912	
PLOT DATE = 11/19/2021	DATE -	REVISED -								



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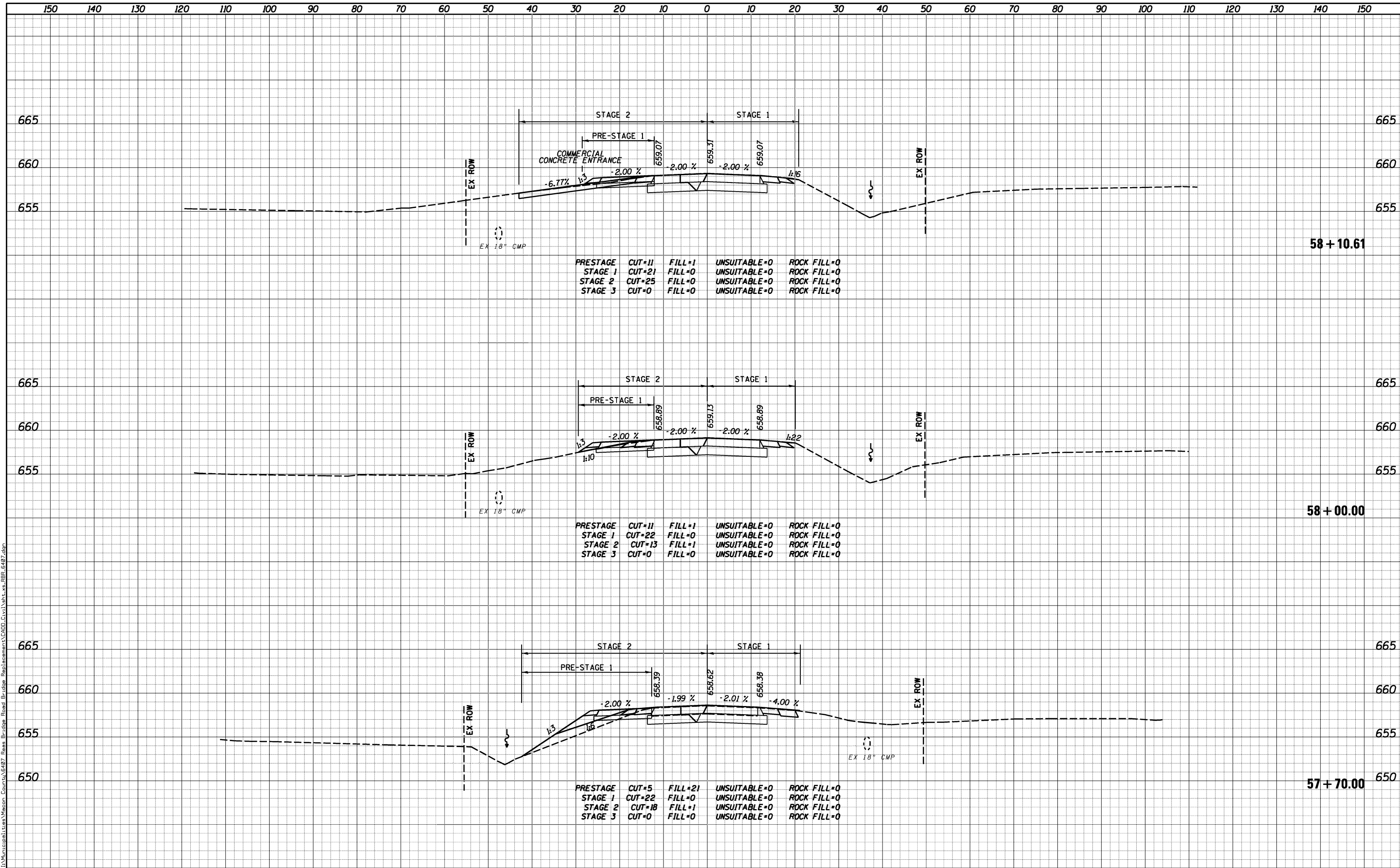
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USER NAME = j_buening	DESIGNED -	REVISÉ -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (317) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - REAS BRIDGE ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 184
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISÉ -				SCALE: 10'H / 5'V	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 95912	
PLOT DATE = 11/19/2021	CHECKED -	REVISÉ -								
	DATE -	REVISÉ -								



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PRESTAGE	CUT=11	FILL=1	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=21	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=25	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

PRESTAGE	CUT=11	FILL=1	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=22	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=13	FILL=1	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

PRESTAGE	CUT=5	FILL=21	UNSUITABLE=0	ROCK FILL=0
STAGE 1	CUT=22	FILL=0	UNSUITABLE=0	ROCK FILL=0
STAGE 2	CUT=18	FILL=1	UNSUITABLE=0	ROCK FILL=0
STAGE 3	CUT=0	FILL=0	UNSUITABLE=0	ROCK FILL=0

USER NAME = j_buening	DESIGNED -	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

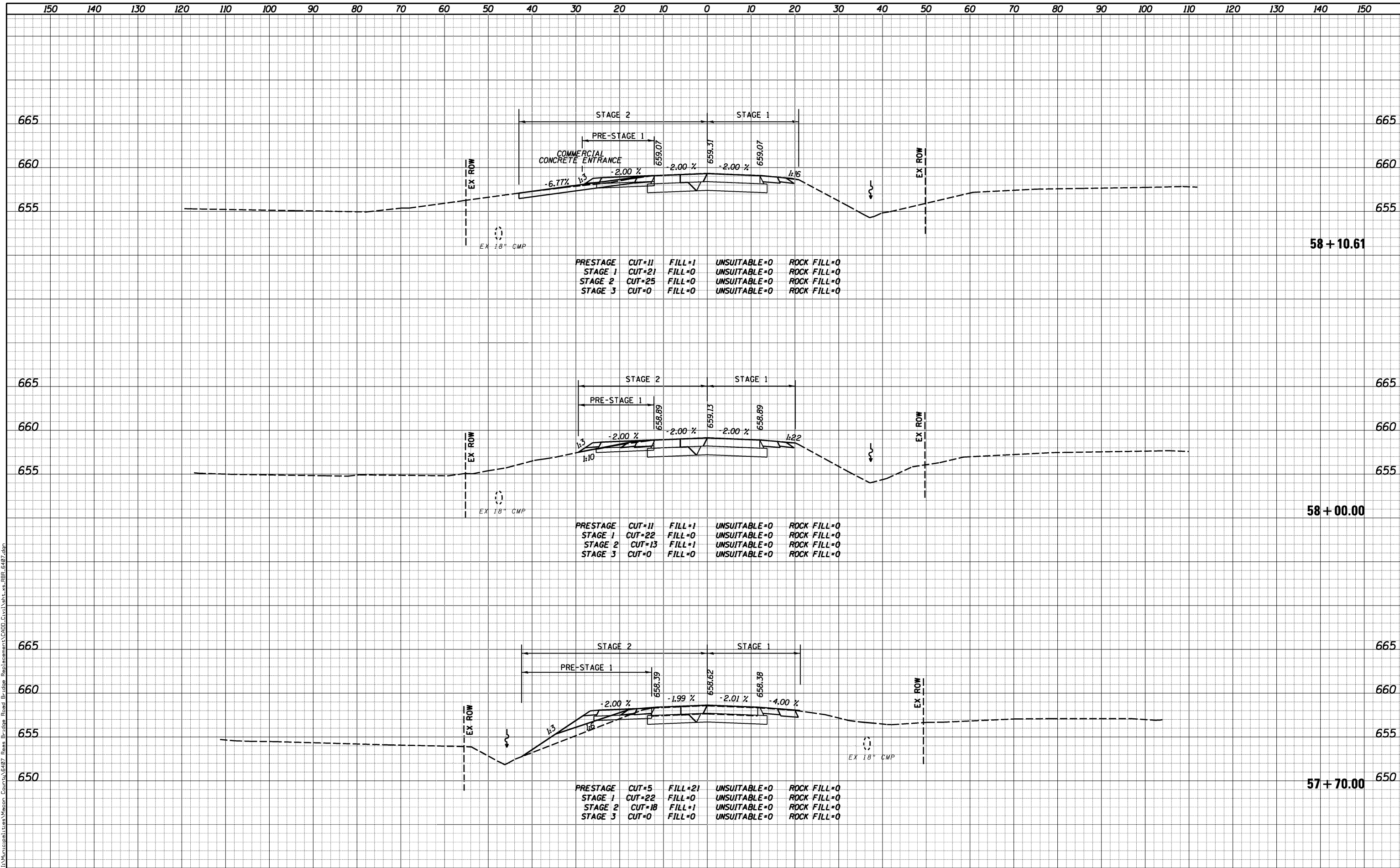
**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. 57+70.00 TO STA. .

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	185
			CONTRACT NO. 95912	
ILLINOIS FED. AID PROJECT				

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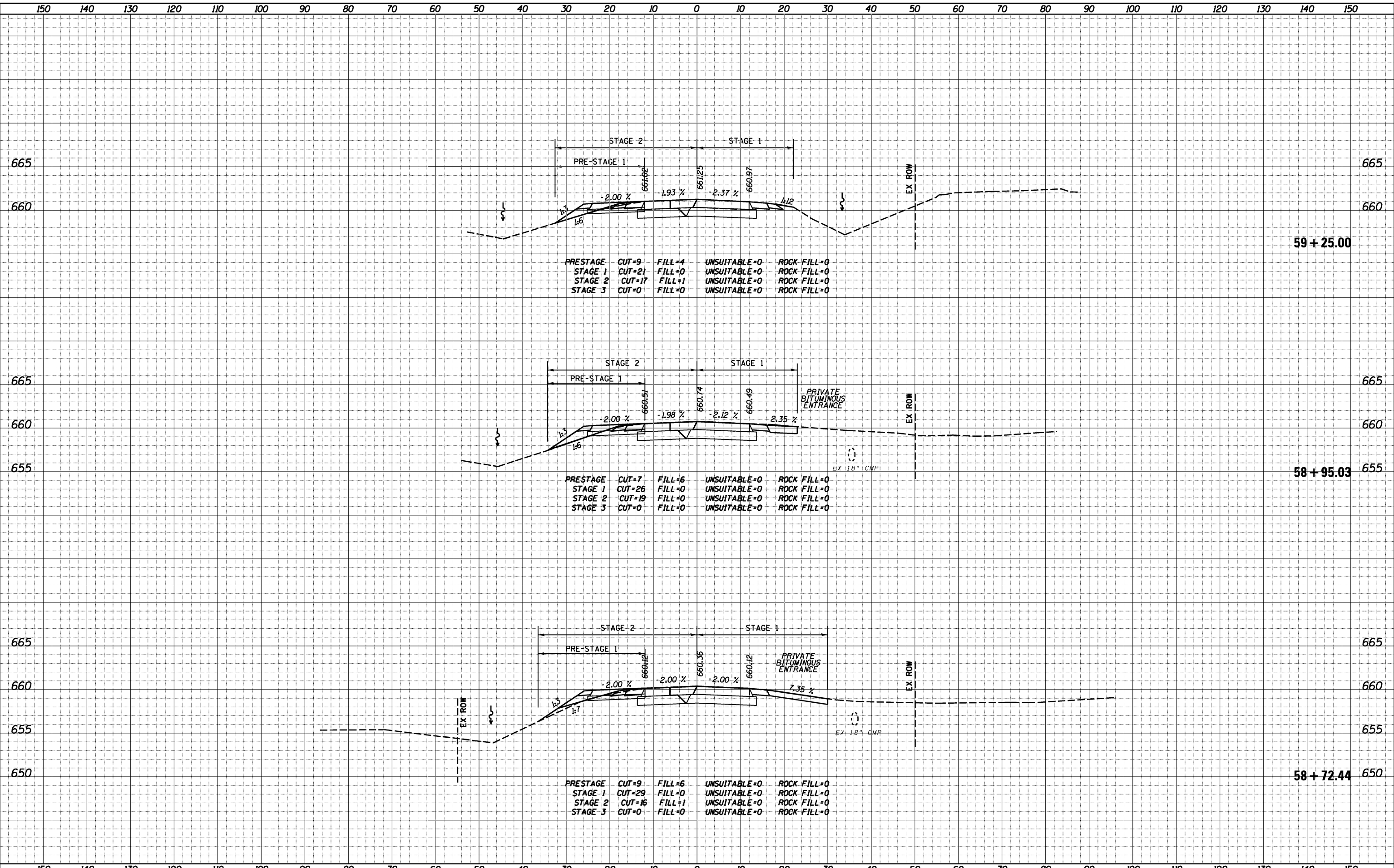


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FINISH SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - REAS BRIDGE ROAD**  
**CH 24 (REAS BRIDGE ROAD)**

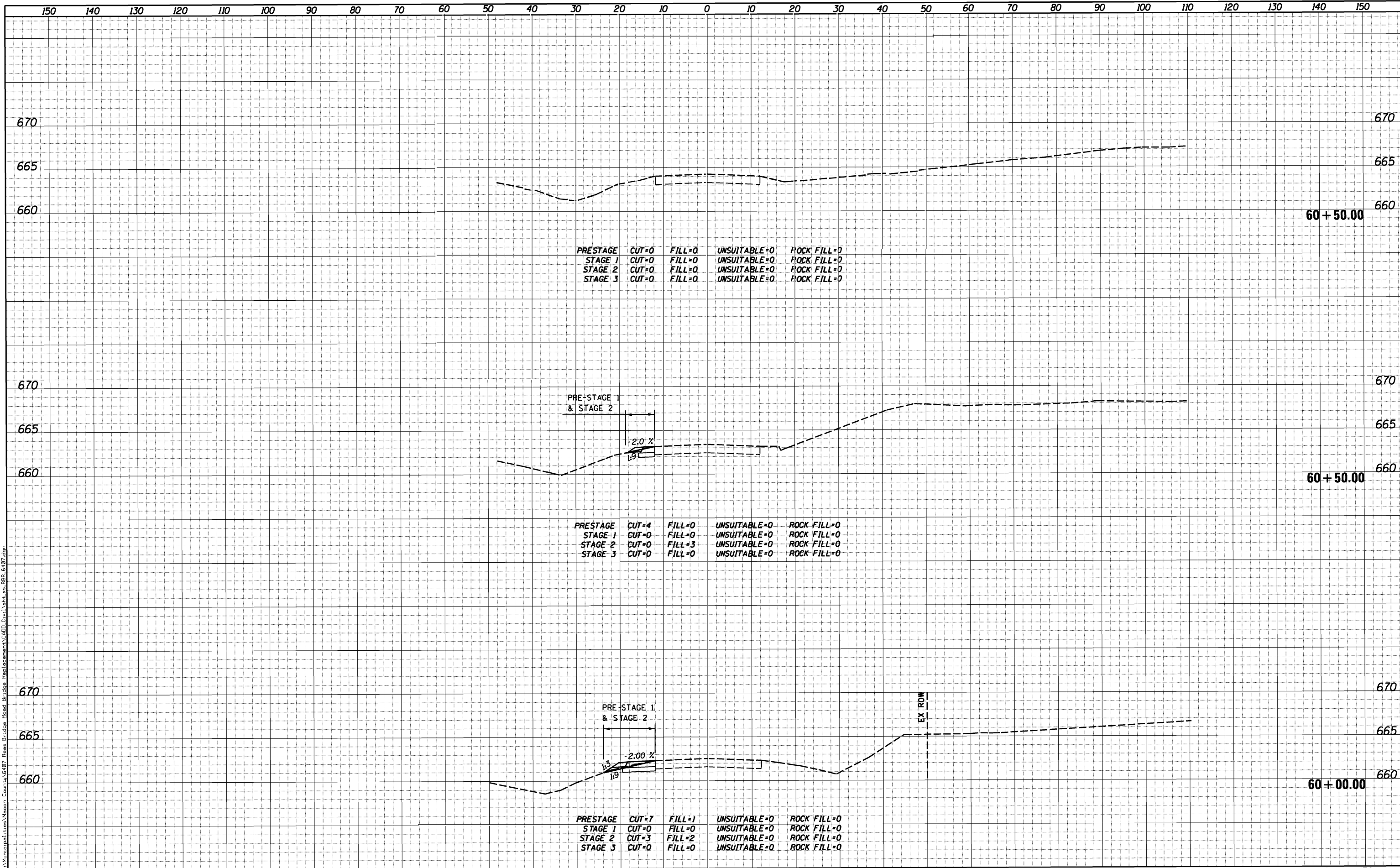
SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. 58+72.44 TO STA. .

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	187
				CONTRACT NO. 95912

ILLINOIS FED. AID PROJECT

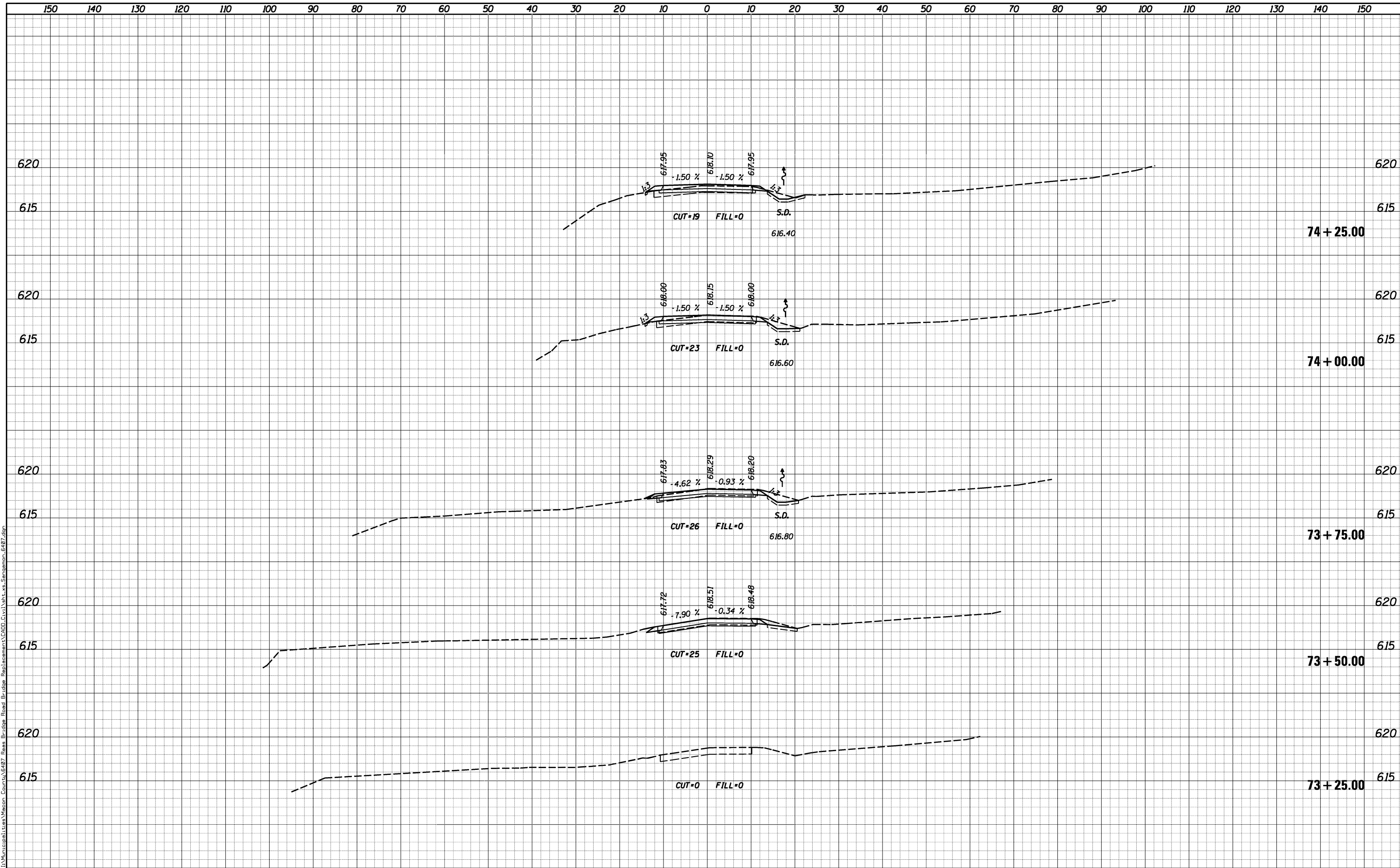
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TEMPLATE	
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FINISHED SURVEY	
NOTE BOOK	
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BY	
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AREAS CHECKED	

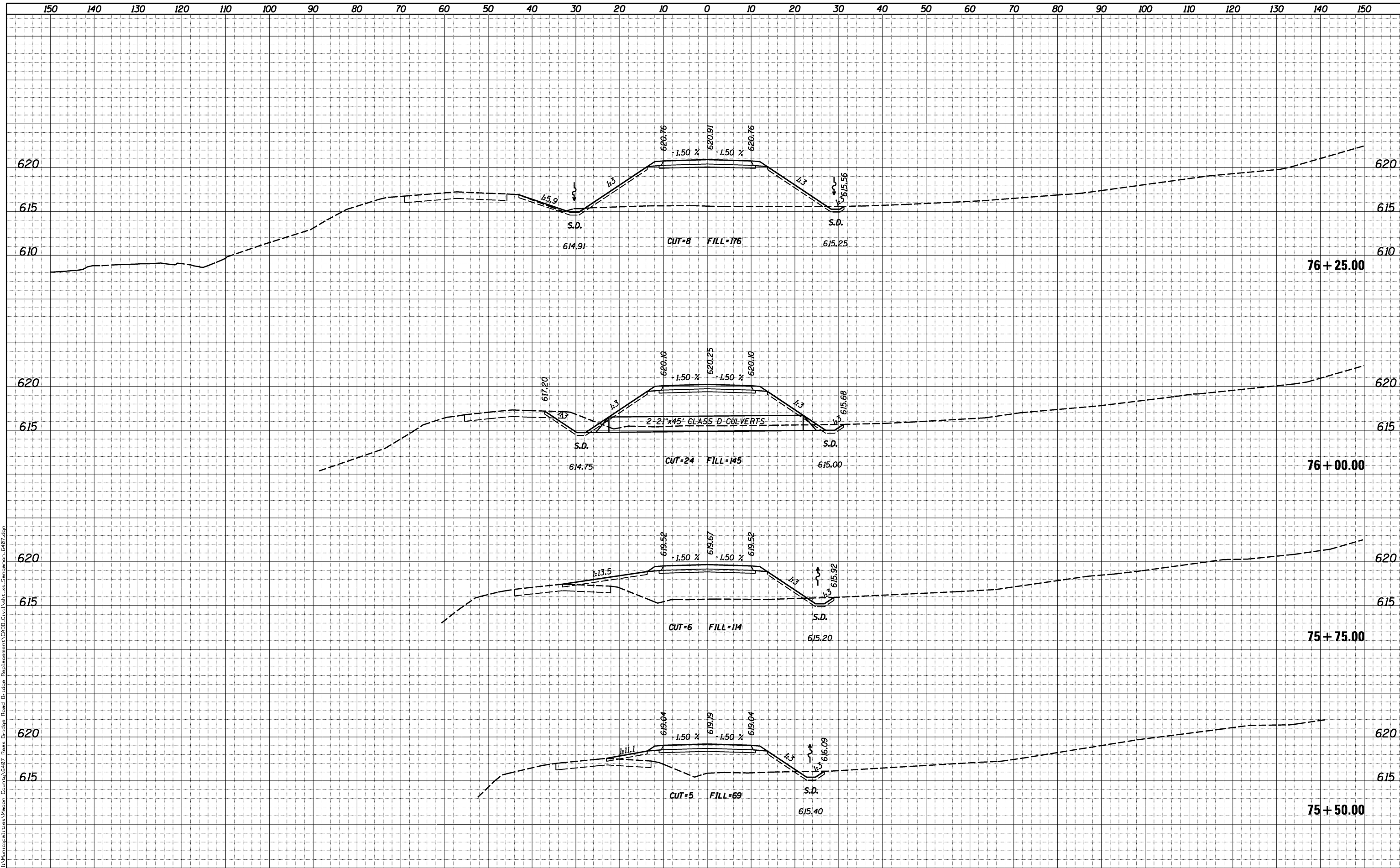


USER NAME = j_buening	DESIGNED -	REVISIED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (217) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - SANGAMON ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 189	
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISIED -				SCALE: 10'H / 5'V	SHEET NO. OF SHEETS	STA. 73+25.00 TO STA. 74+25.00	CONTRACT NO. 95912		
PLOT DATE = 11/19/2021	CHECKED -	REVISIED -		ILLINOIS FED. AID PROJECT							
	DATE -	REVISIED -									



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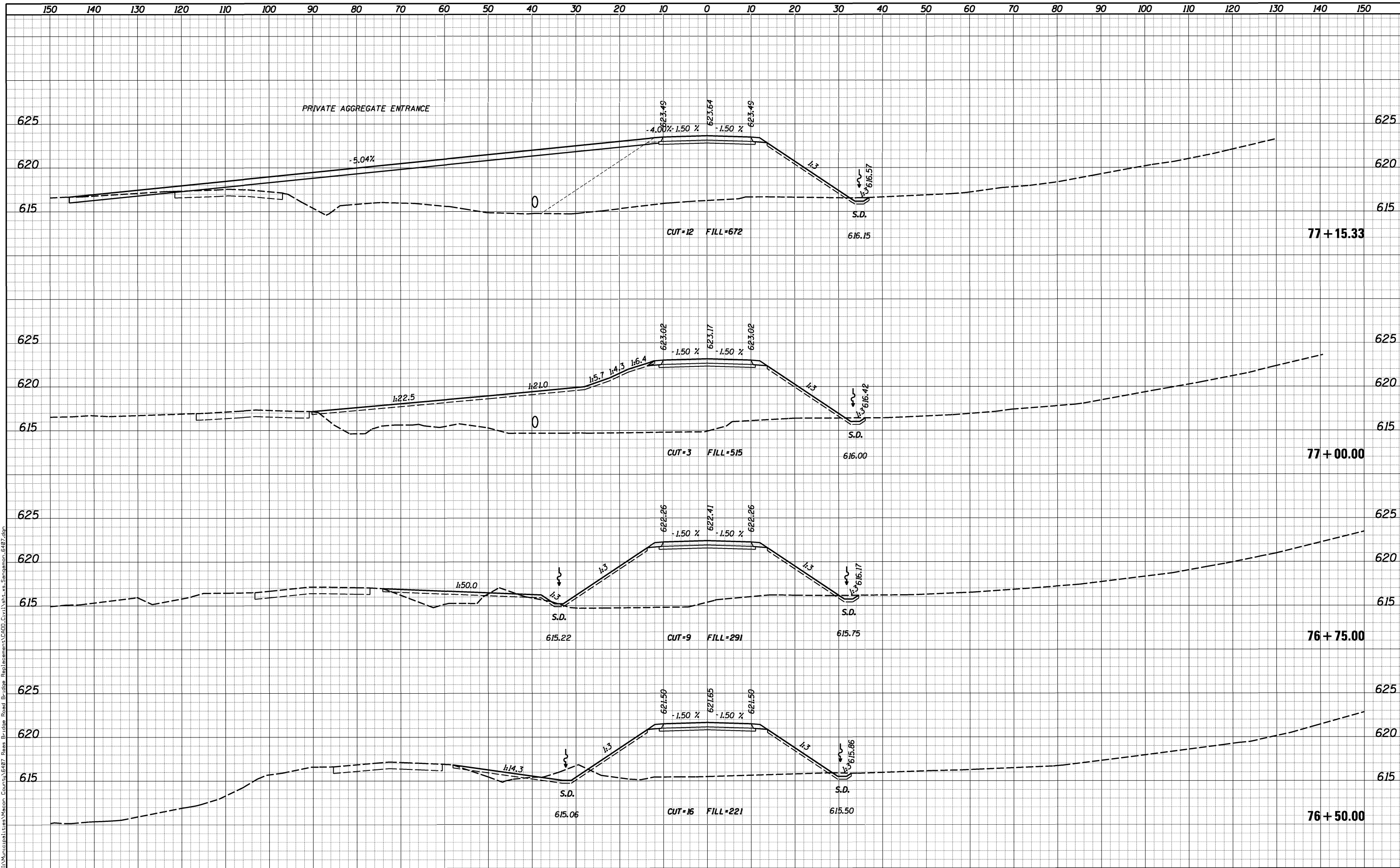
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USER NAME = j_buening	DESIGNED -	REVISD -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (217) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - SANGAMON ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE. 7355	SECTION 12-00251-00-BR	COUNTY MACON	TOTAL SHEETS 196	SHEET NO. 191	
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISD -				SCALE: 10'H / 5'V		SHEET NO. OF SHEETS	STA. 75+50.00 TO STA. 76+25.00	CONTRACT NO. 95912	
PLOT DATE = 11/19/2021	CHECKED -	REVISD -						ILLINOIS FED. AID PROJECT			
	DATE -	REVISD -									



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FINAL SURVEY	
NOTE BOOK	
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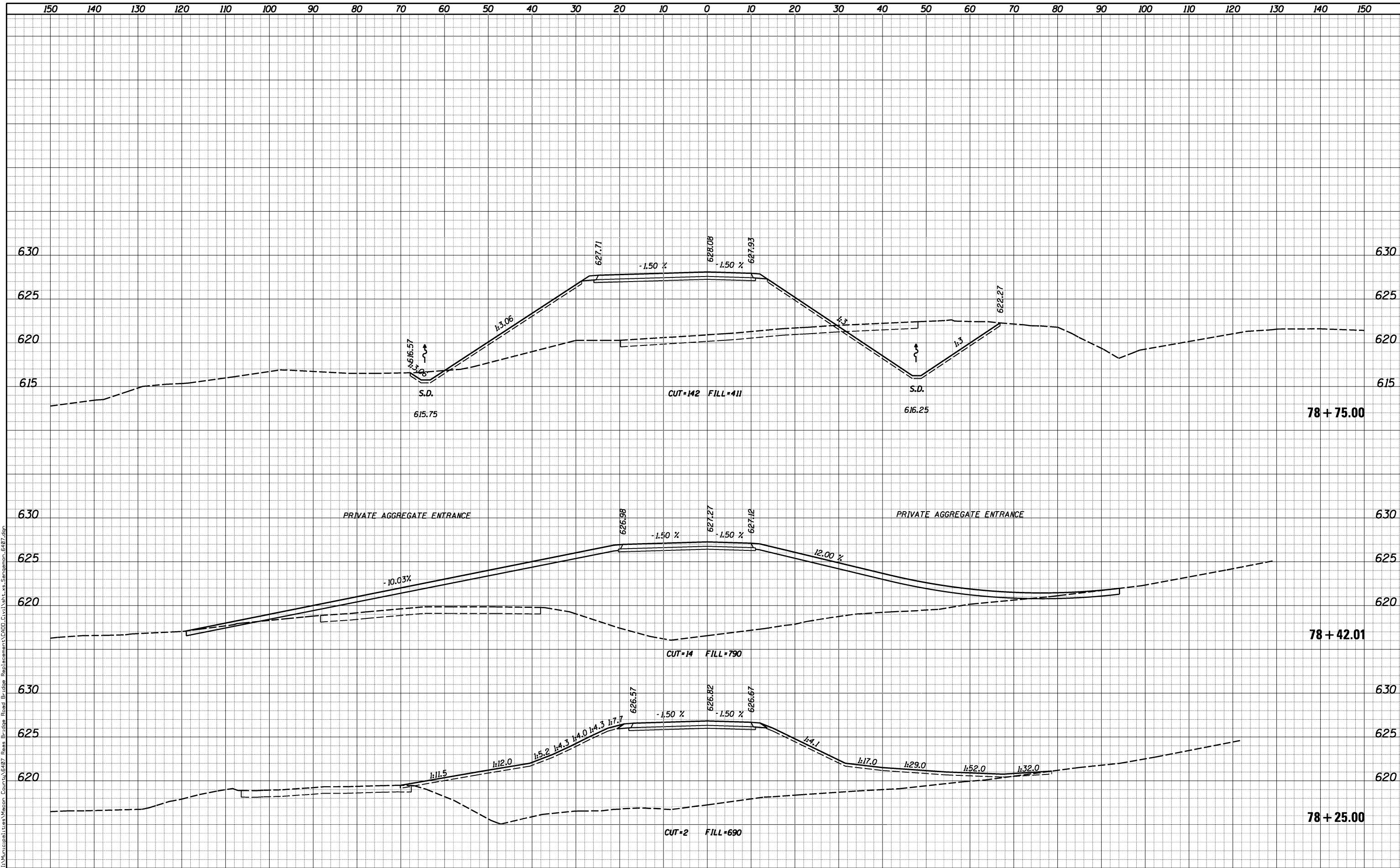
USER NAME = j_buening	DESIGNED -	REVISIED -	<b>CHASTAIN &amp; ASSOCIATES LLC</b> CONSULTING ENGINEERS DECATUR (217) 422-8544 SCHAUMBURG (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	<b>CROSS SECTIONS - SANGAMON ROAD</b> <b>CH 24 (REAS BRIDGE ROAD)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISIED -				7355	12-00251-00-BR	MACON	196	192
PLOT DATE = 11/19/2021	CHECKED -	REVISIED -		SCALE: 10'H / 5'V		SHEET NO. OF SHEETS		STA. 76+50.00 TO STA. 77+15.33		CONTRACT NO. 95912
	DATE -	REVISIED -		ILLINOIS FED. AID PROJECT						





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USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS  
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 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**CROSS SECTIONS - SANGAMON ROAD**  
**CH 24 (REAS BRIDGE ROAD)**  
 SCALE: 10'H / 5'V SHEET NO. OF SHEETS STA. 78+25.00 TO STA. 78+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	194
CONTRACT NO. 95912			ILLINOIS FED. AID PROJECT	

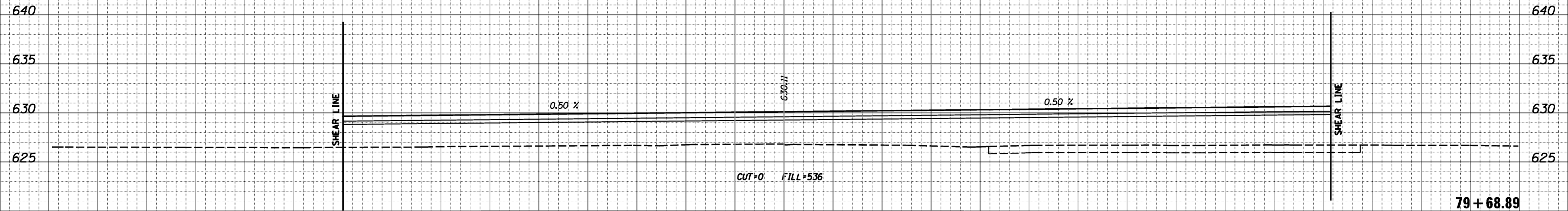


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BY	DATE
FINL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED

BY	DATE
ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED

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USER NAME = j_buening	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2021	DATE -	REVISED -

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**CROSS SECTIONS - SANGAMON ROAD**  
**CH 24 (REAS BRIDGE ROAD)**  
SCALE: 10'H / 5"V SHEET NO. OF SHEETS STA. 79+68.89 TO STA. 79+68.89

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7355	12-00251-00-BR	MACON	196	196
CONTRACT NO. 95912				
ILLINOIS FED. AID PROJECT				