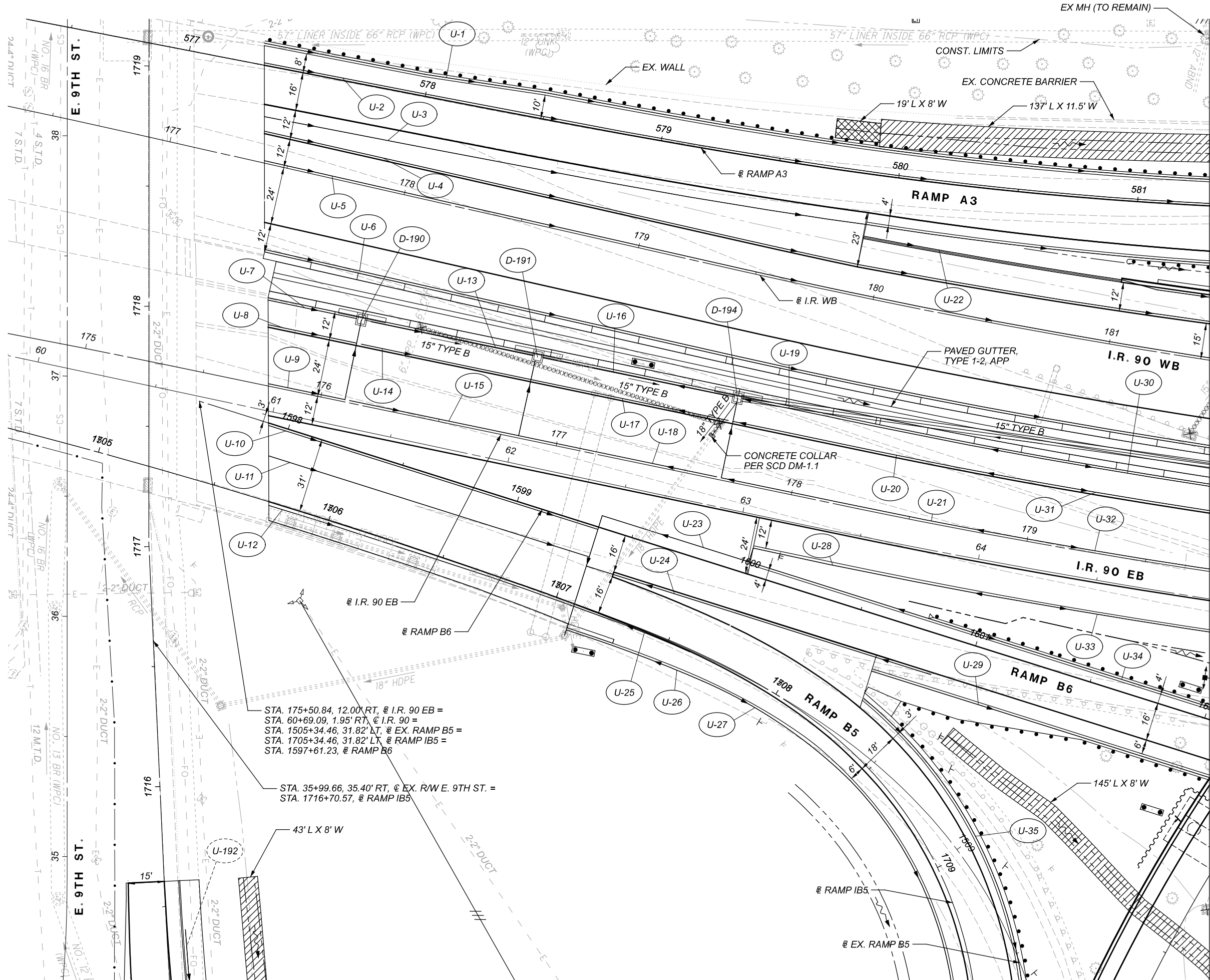


**DRAINAGE PLAN  
KEY PLAN**

**DRAINAGE LEGEND**

- xxxxxx SEWER REMOVED
- SEWER ABANDONED
- ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
- ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT
- ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
- ITEM 670 - SLOPE EROSION PROTECTION
- ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE B
- ITEM 836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	893
TOTAL	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 907

FOR DRAINAGE LEGEND, SEE SHEET 893

MATCH LINE SEE SHEET 895



**DRAINAGE PLAN**  
**SHEET 1 OF 28**

DESIGN AGENCY

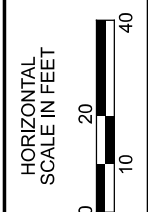
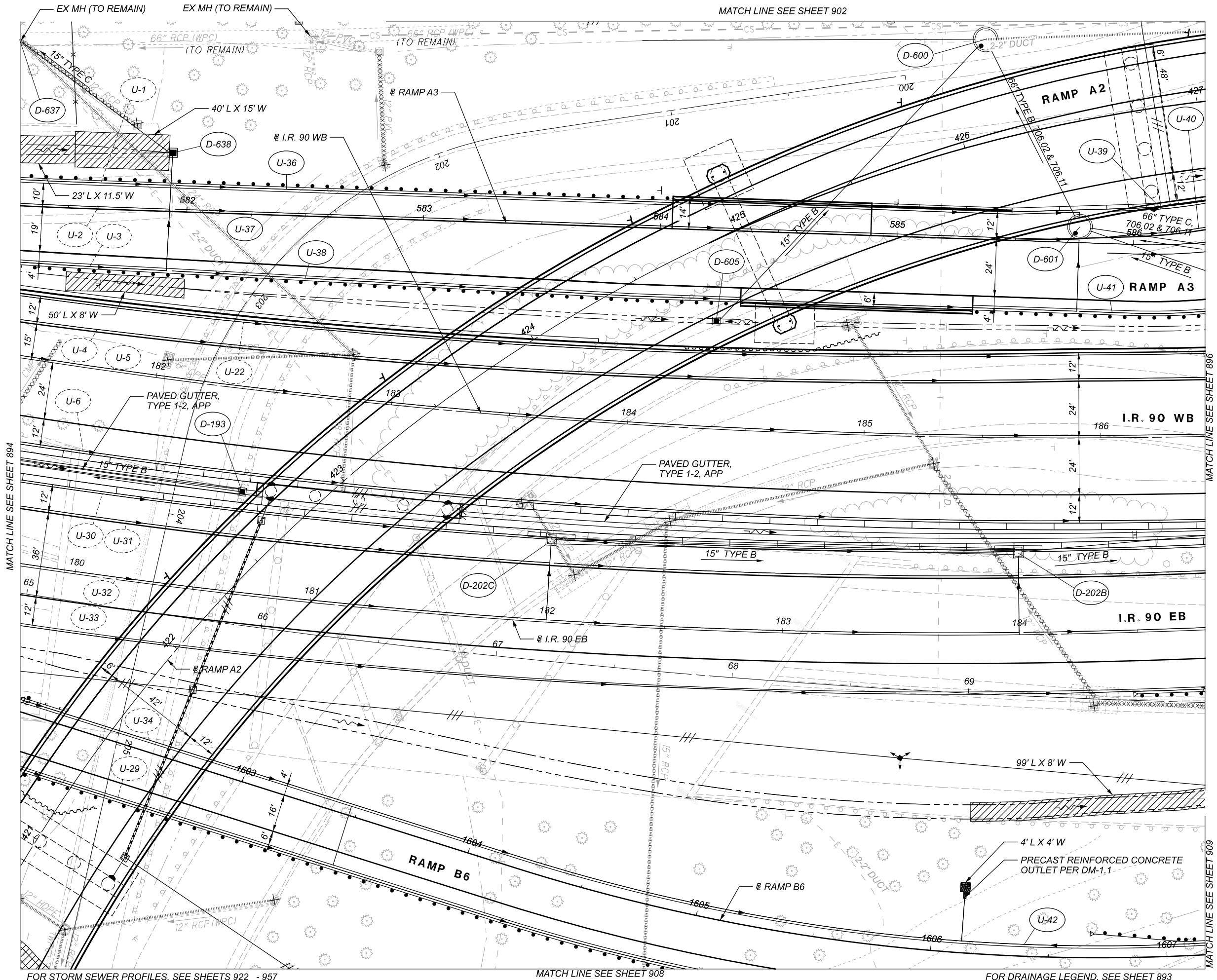
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
894	2339



**DRAINAGE PLAN**  
**SHEET 2 OF 28**

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	895
TOTAL	2339

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 908

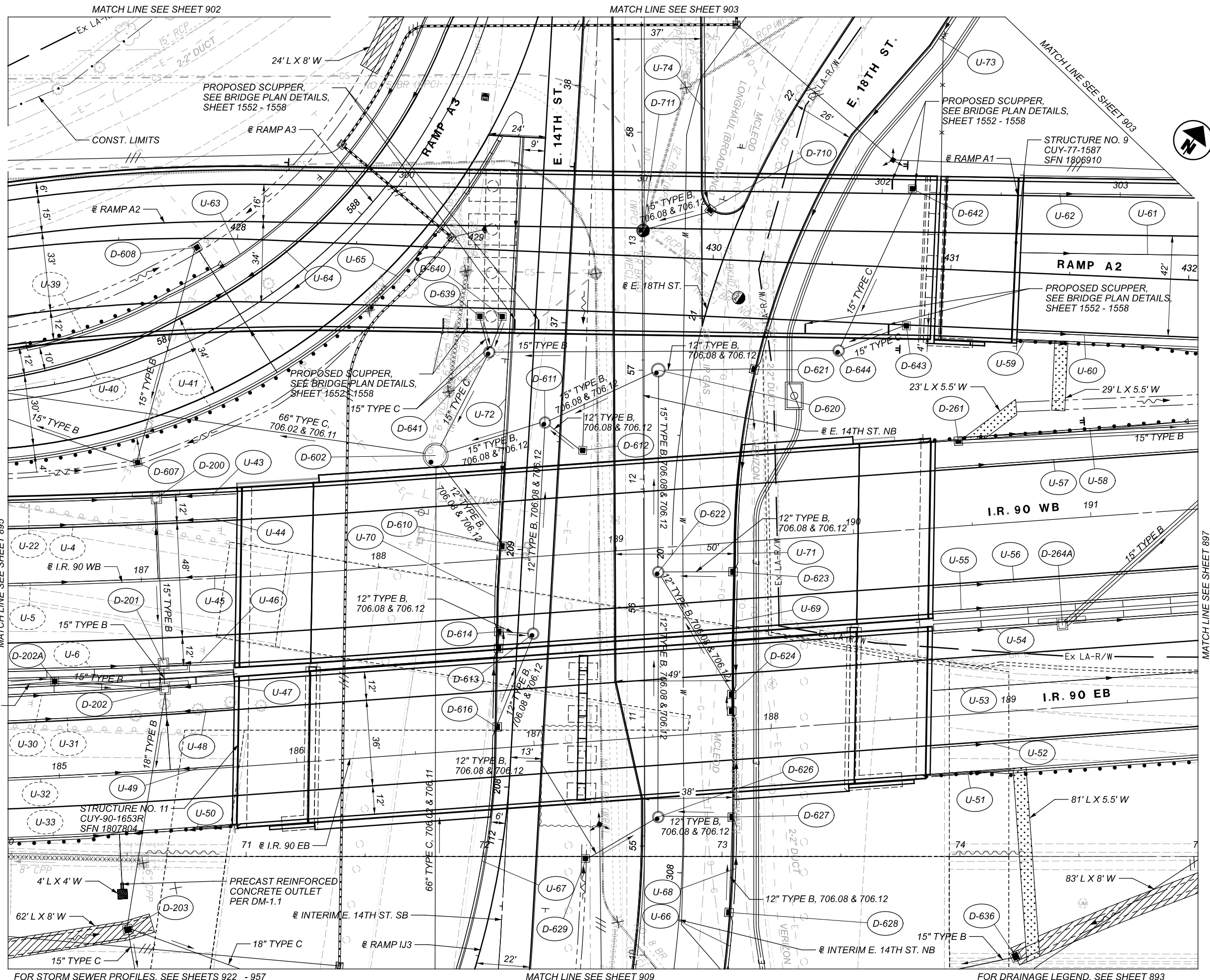
FOR DRAINAGE LEGEND, SEE SHEET 893

MATCH LINE SEE SHEET 894

MATCH LINE SEE SHEET 896

MATCH LINE SEE SHEET 909

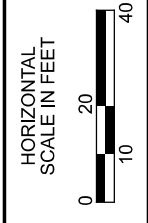
MATCH LINE SEE SHEET 902



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 909

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 3 OF 28**

DESIGN AGENCY

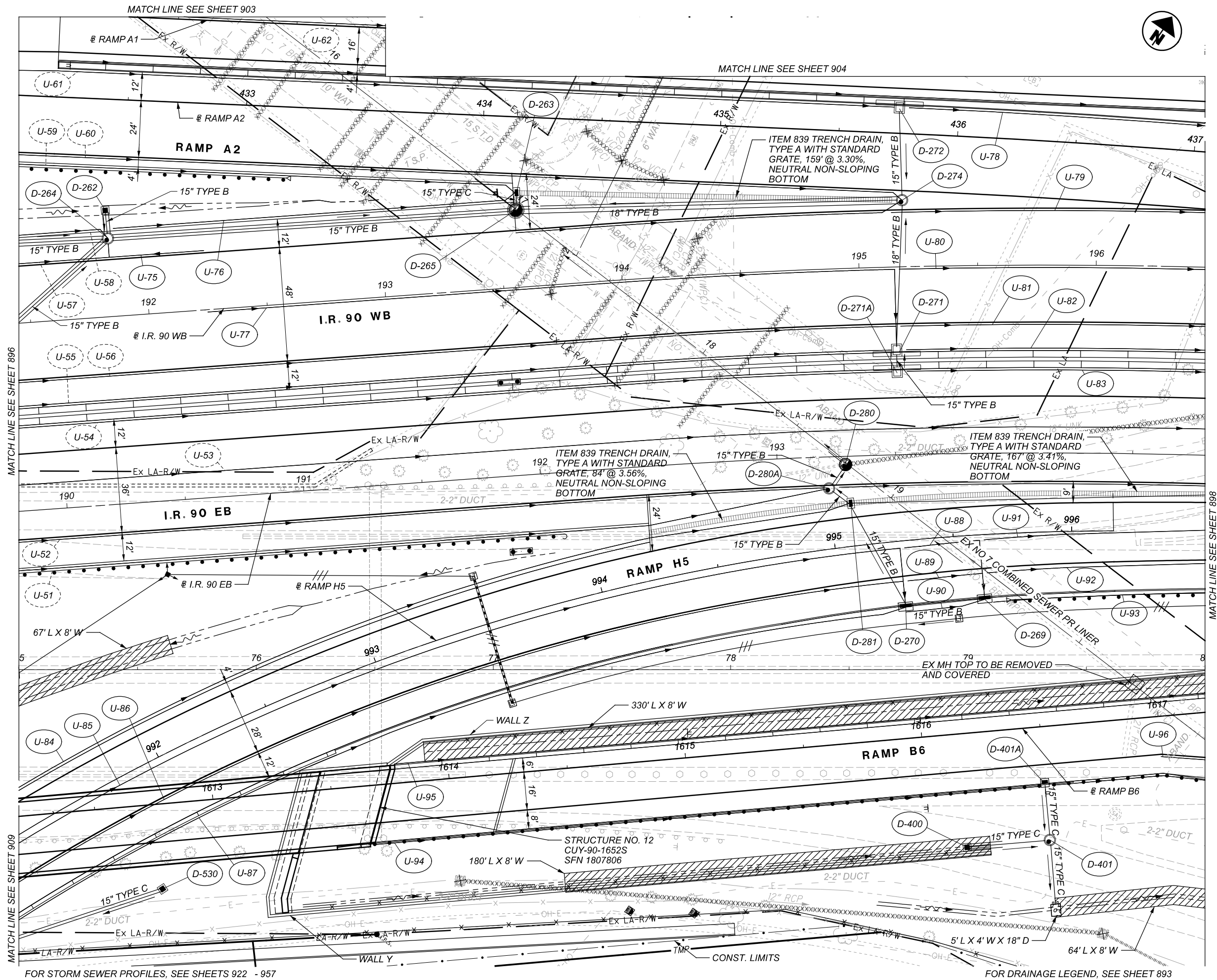
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
82382

SHEET	TOTAL
896	2339



**DRAINAGE PLAN**  
**SHEET 4 OF 28**

DESIGN AGENCY

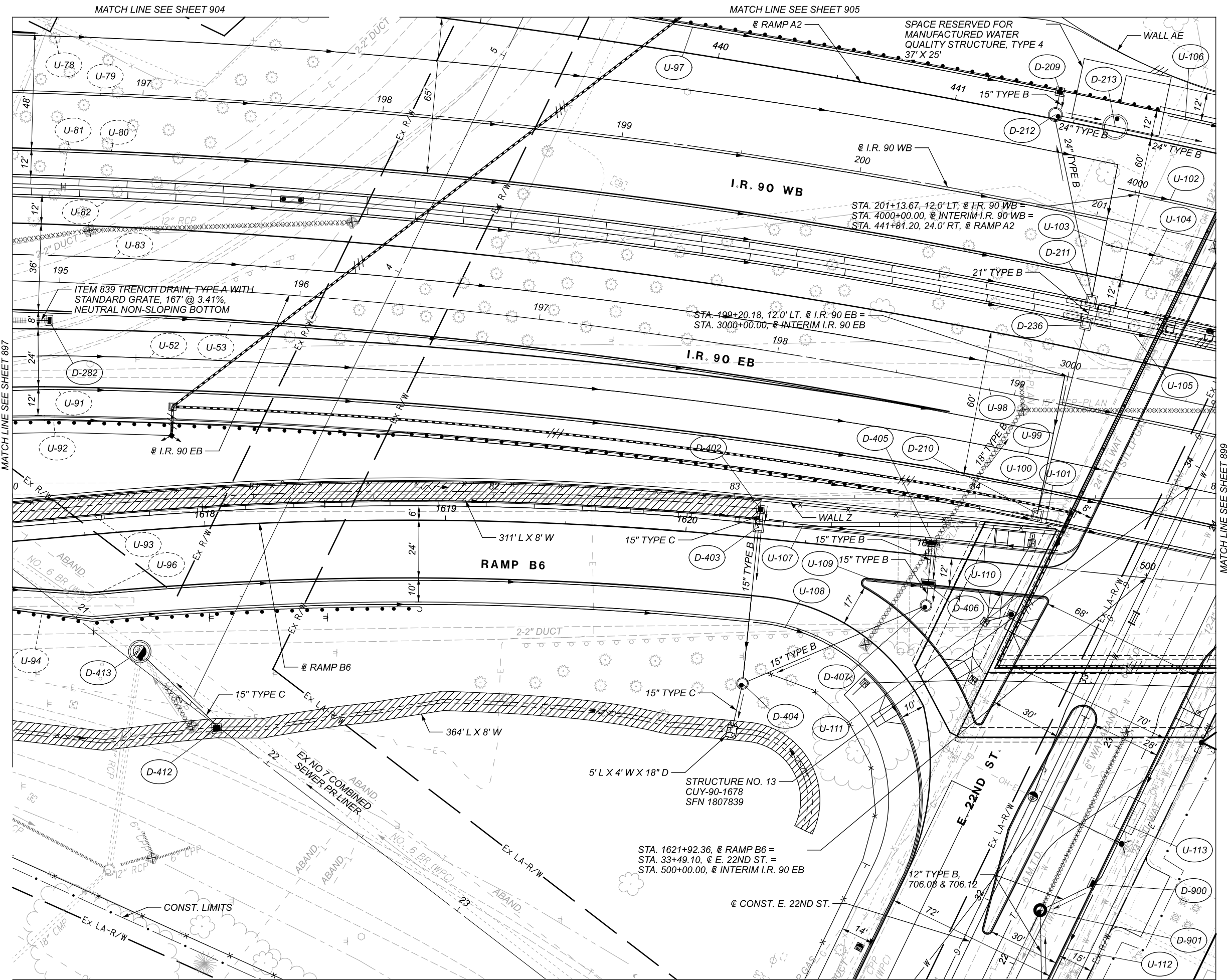
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
82382

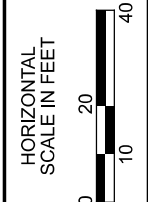
SHEET	TOTAL
897	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

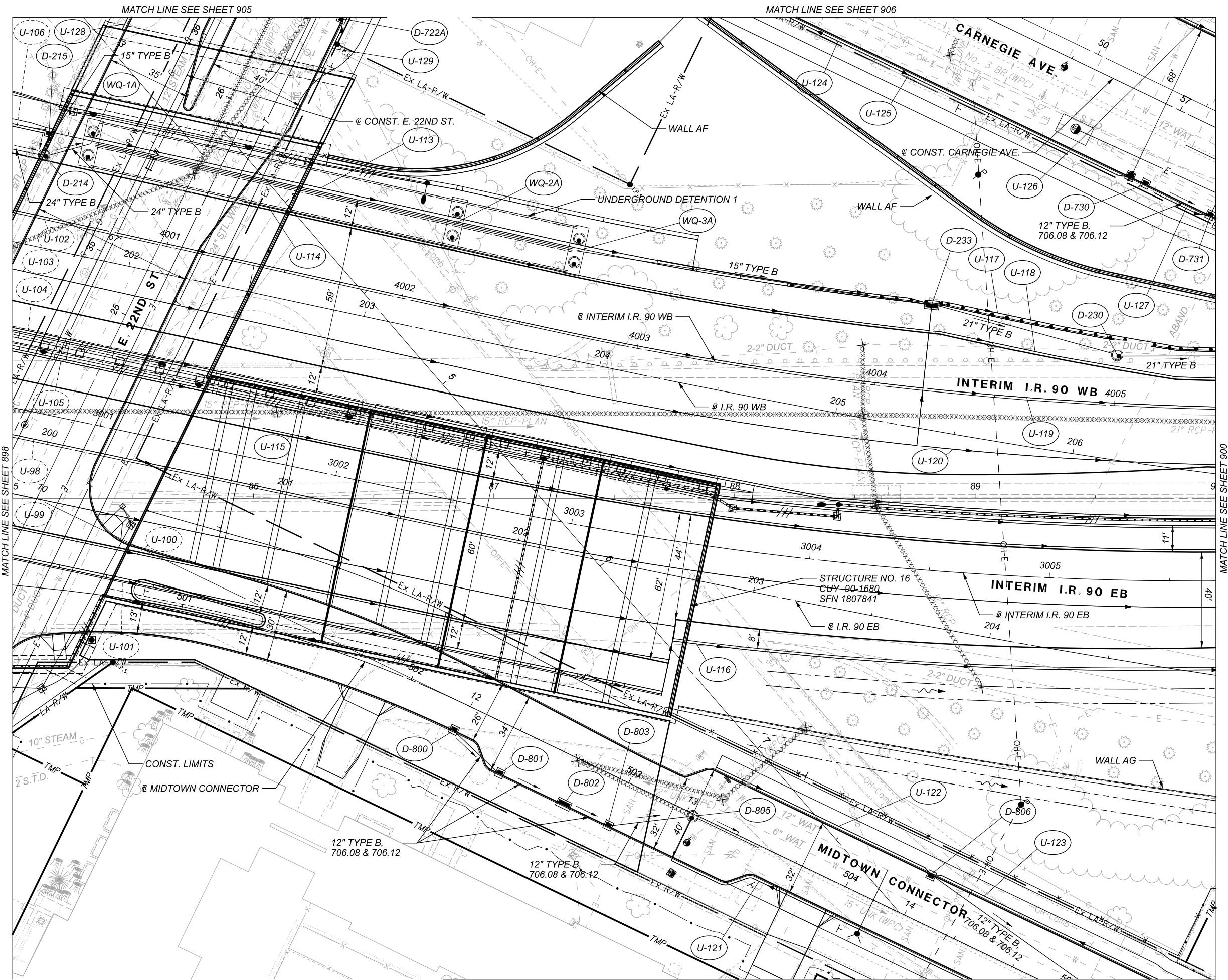
MATCH LINE SEE SHEET 910

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 5 OF 28**

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	898
TOTAL	2339



MATCH LINE SEE SHEET 898

MATCH LINE SEE SHEET 905

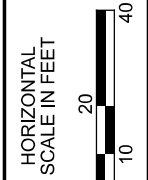
MATCH LINE SEE SHEET 906

MATCH LINE SEE SHEET 900

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 919

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 6 OF 28**

DESIGN AGENCY

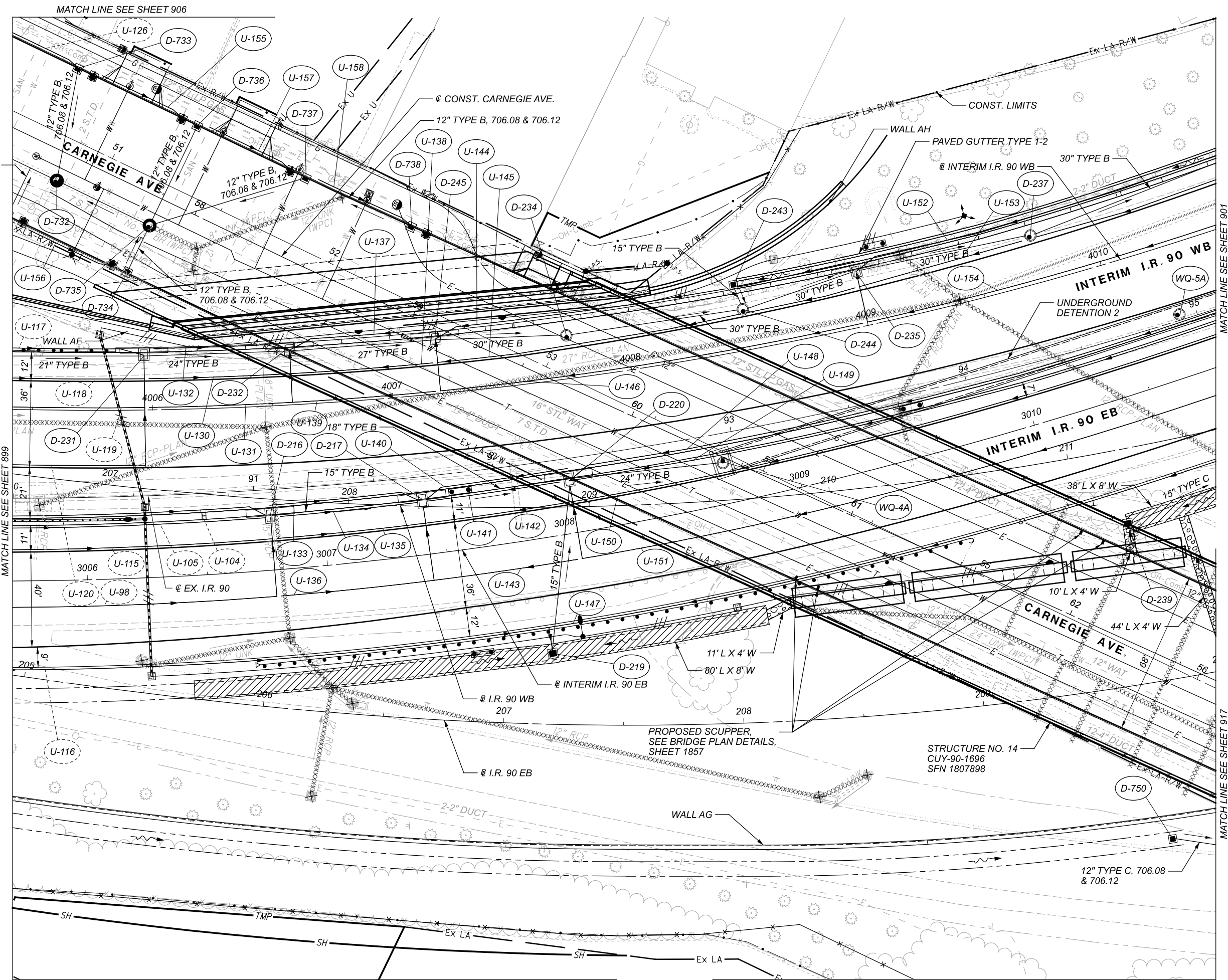
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
82382

SHEET	TOTAL
899	2339



**DRAINAGE PLAN**  
**SHEET 7 OF 28**

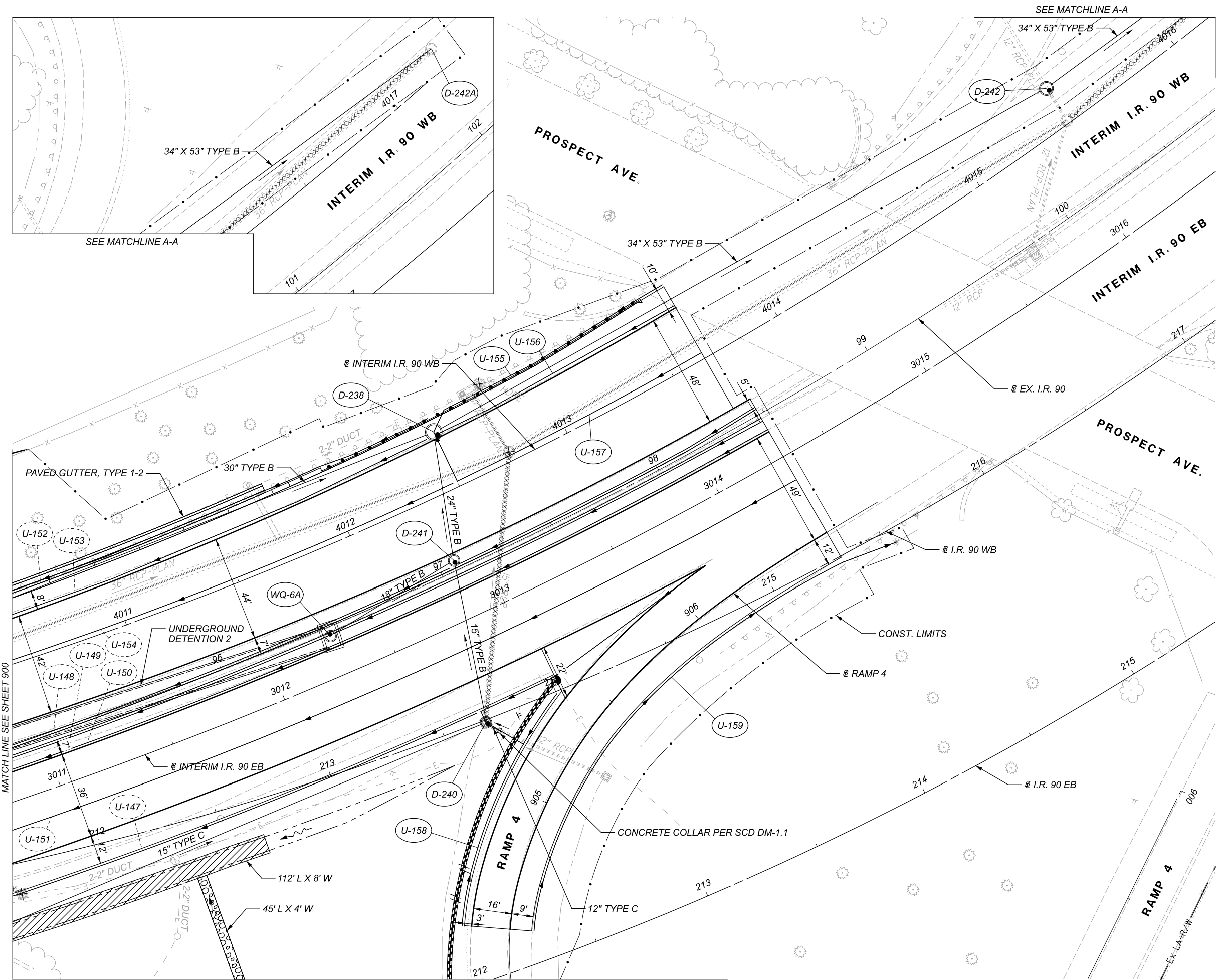
MATCH LINE SEE SHEET 899 (left), MATCH LINE SEE SHEET 906 (top), MATCH LINE SEE SHEET 907 (right), MATCH LINE SEE SHEET 917 (bottom right), MATCH LINE SEE SHEET 919 (bottom left), MATCH LINE SEE SHEET 900 (top right), MATCH LINE SEE SHEET 917 (bottom right)

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	900
TOTAL	2339



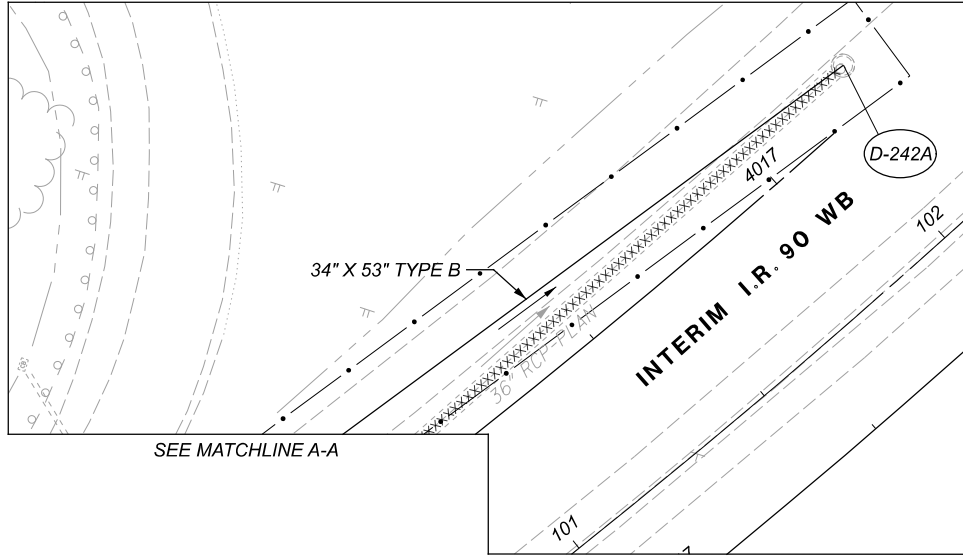


MATCH LINE SEE SHEET 900

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 917

FOR DRAINAGE LEGEND, SEE SHEET 893



SEE MATCHLINE A-A

SEE MATCHLINE A-A



DRAINAGE PLAN  
 SHEET 8 OF 28

DESIGN AGENCY

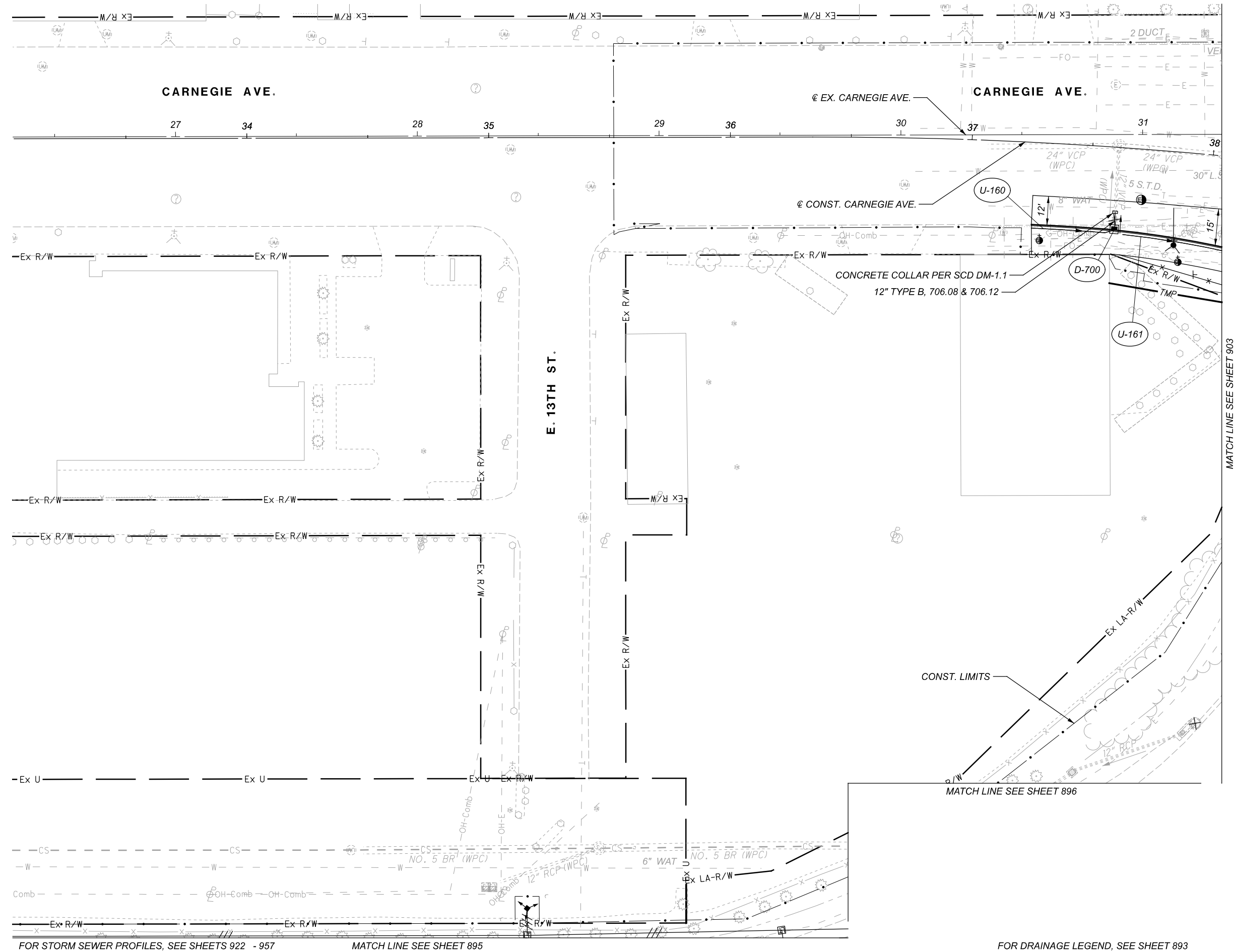
Michael Baker INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
901	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 895

FOR DRAINAGE LEGEND, SEE SHEET 893



DRAINAGE PLAN  
 SHEET 9 OF 28

DESIGN AGENCY

**Michael Baker**  
 INTERNATIONAL

DESIGNER

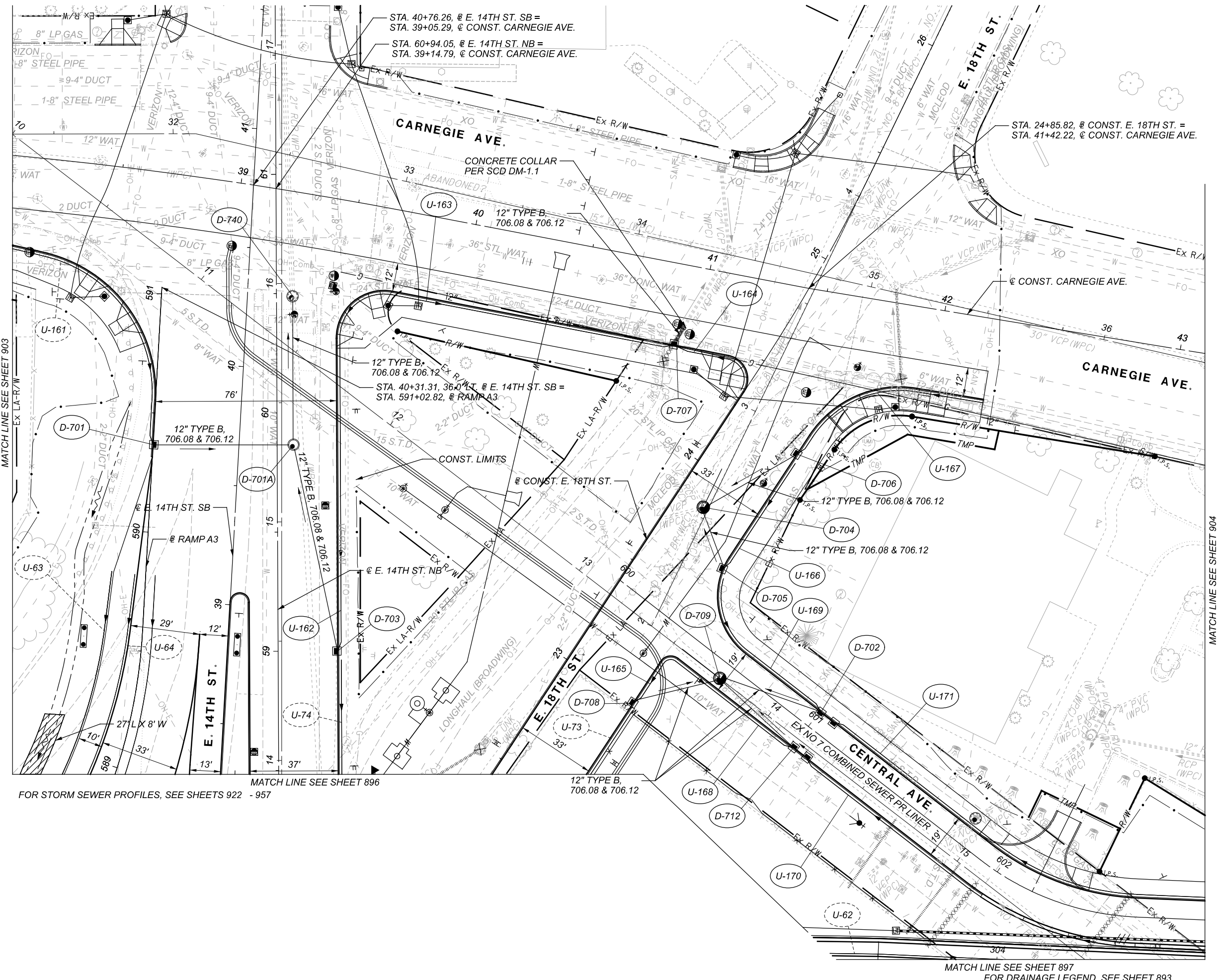
REVIEWER

PROJECT ID

82382

SHEET TOTAL

902 2339



MATCH LINE SEE SHEET 903

MATCH LINE SEE SHEET 904

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 896

12" TYPE B,  
706.08 & 706.12

MATCH LINE SEE SHEET 897  
 FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 10 OF 28**

DESIGN AGENCY

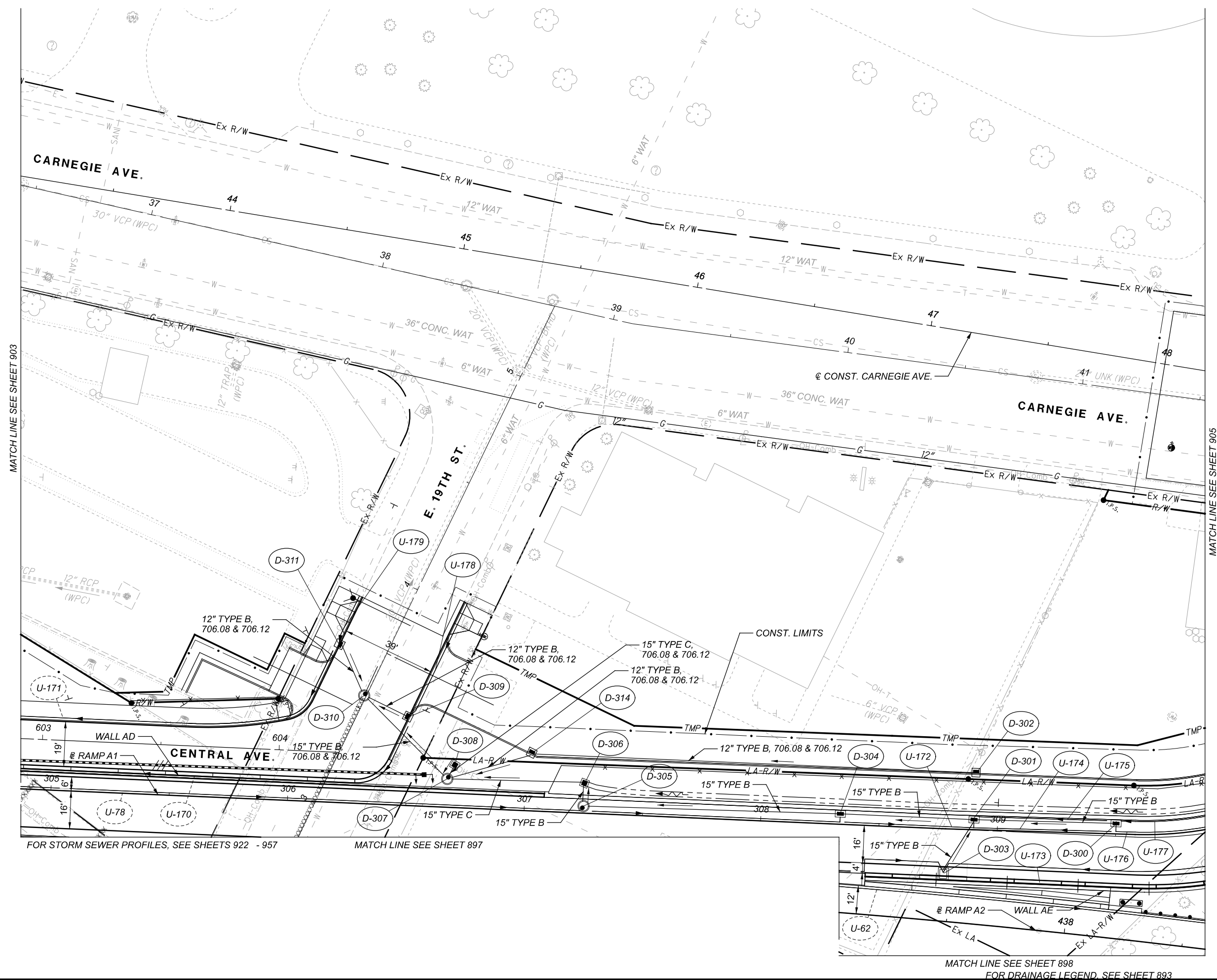
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
903	2339



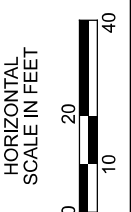
MATCH LINE SEE SHEET 903

MATCH LINE SEE SHEET 905

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 897

MATCH LINE SEE SHEET 898  
FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 11 OF 28**

DESIGN AGENCY

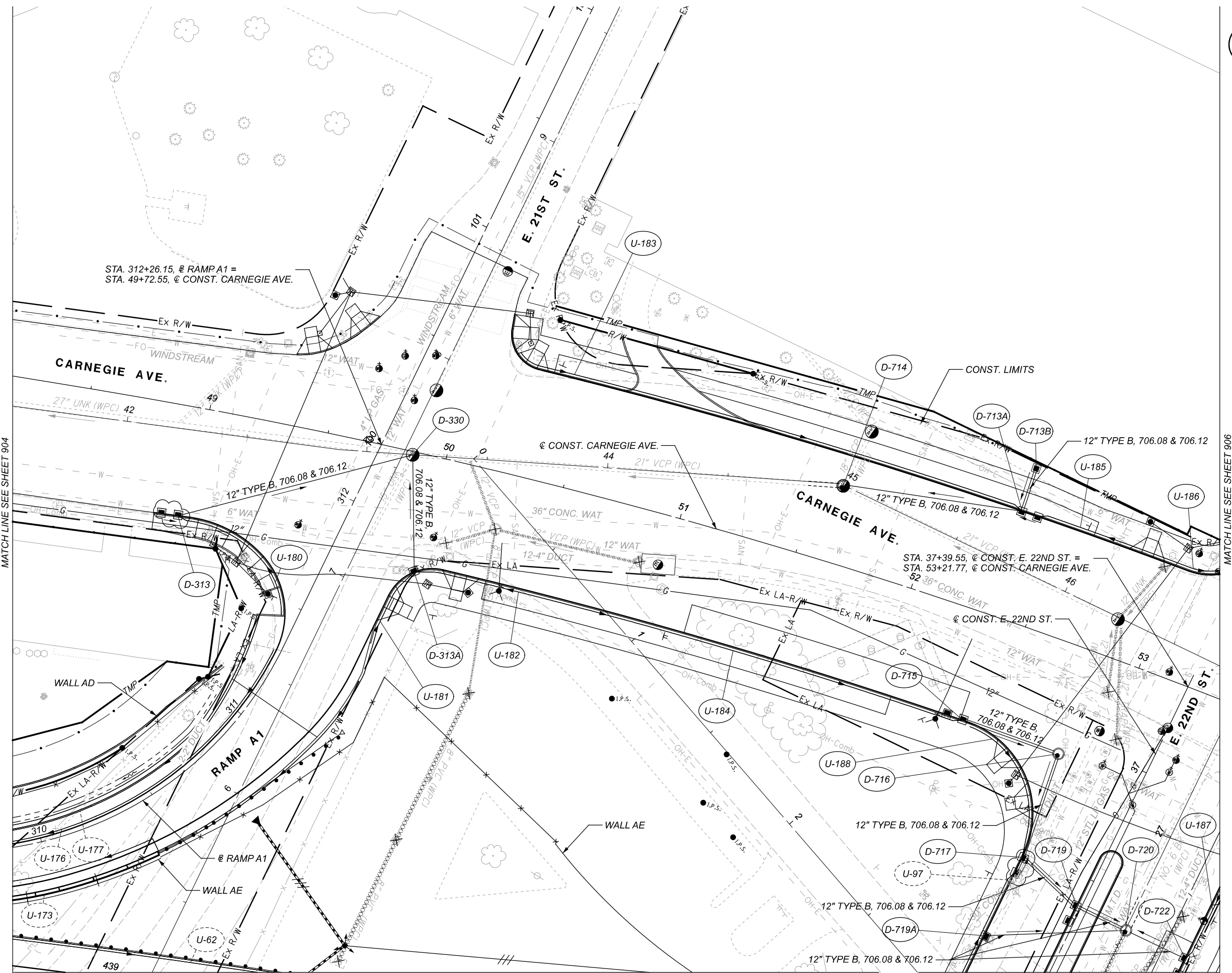
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
82382

SHEET	TOTAL
904	2339



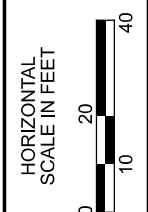
MATCH LINE SEE SHEET 904

MATCH LINE SEE SHEET 906

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 898

MATCH LINE SEE SHEET 899  
 FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 12 OF 28**

DESIGN AGENCY

**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
905	2339



MATCH LINE SEE SHEET 905

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 899

MATCH LINE SEE SHEET 900  
 FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 13 OF 28**

DESIGN AGENCY

**Michael Baker**  
 INTERNATIONAL

DESIGNER

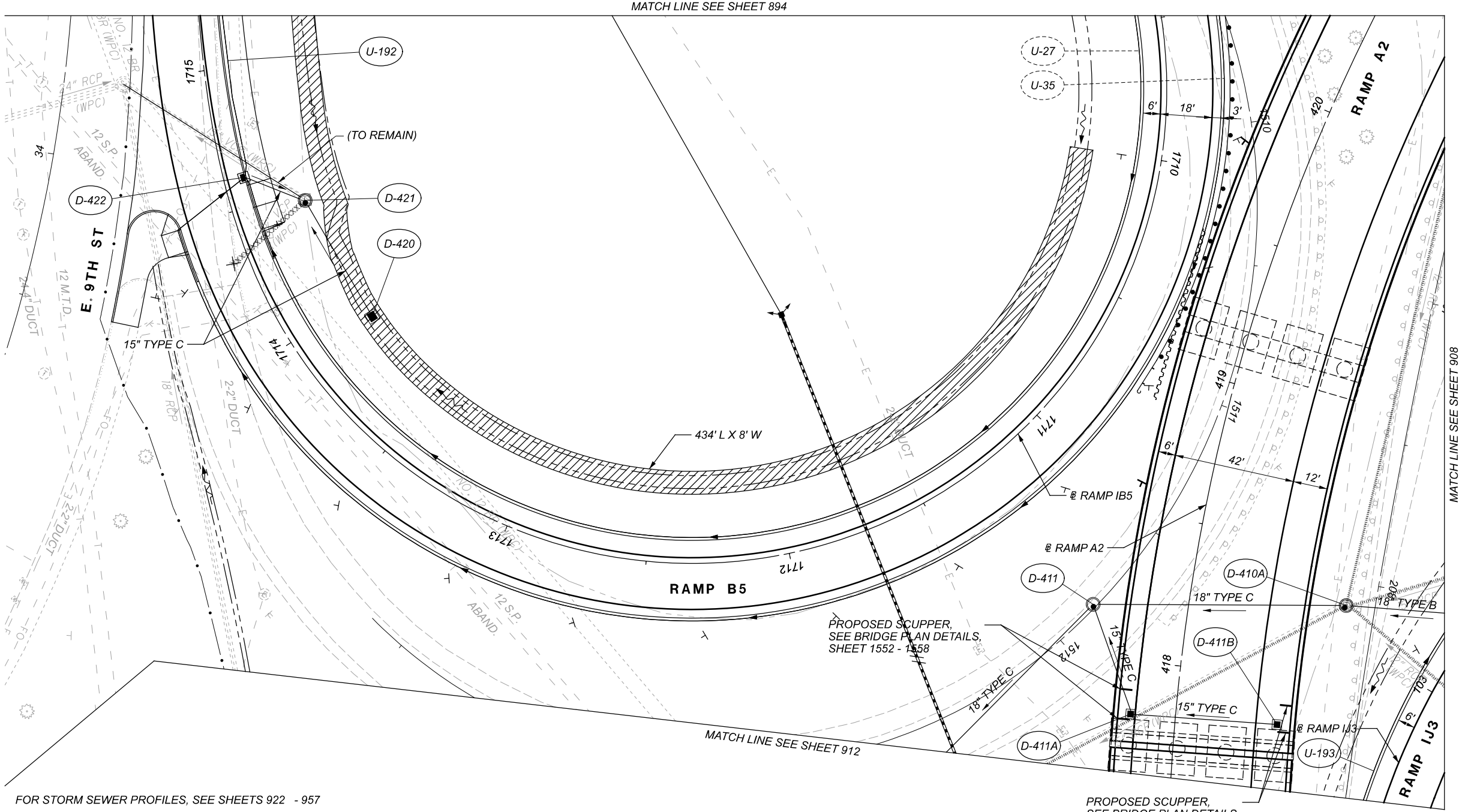
REVIEWER

PROJECT ID

82382

SHEET TOTAL

906 2339



DRAINAGE PLAN  
SHEET 14 OF 28

DESIGN AGENCY

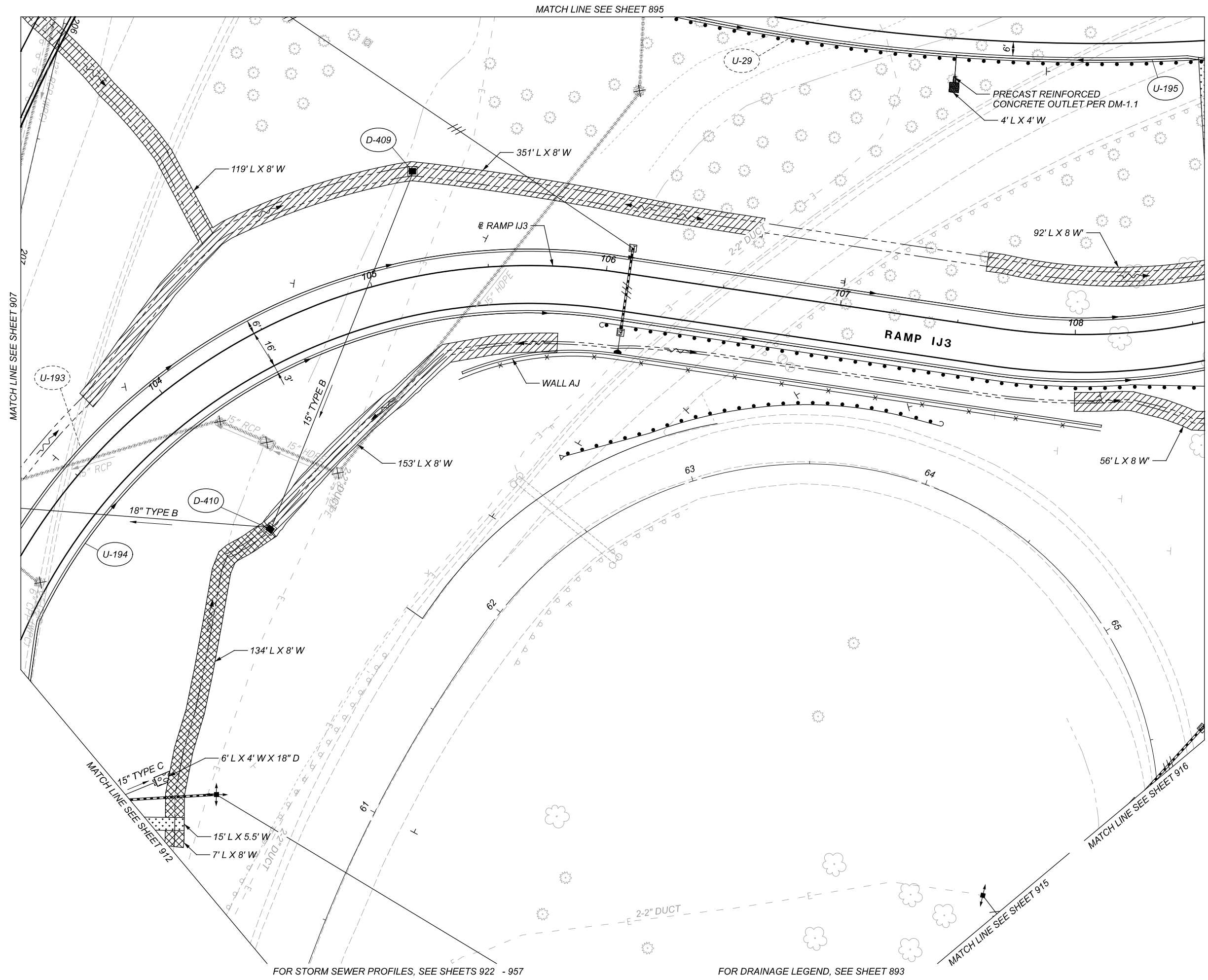
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
82382

SHEET	TOTAL
907	2339



MATCH LINE SEE SHEET 895

MATCH LINE SEE SHEET 907

MATCH LINE SEE SHEET 909

MATCH LINE SEE SHEET 912

MATCH LINE SEE SHEET 916

MATCH LINE SEE SHEET 915



DRAINAGE PLAN  
 SHEET 15 OF 28

DESIGN AGENCY

Michael Baker  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID

82382

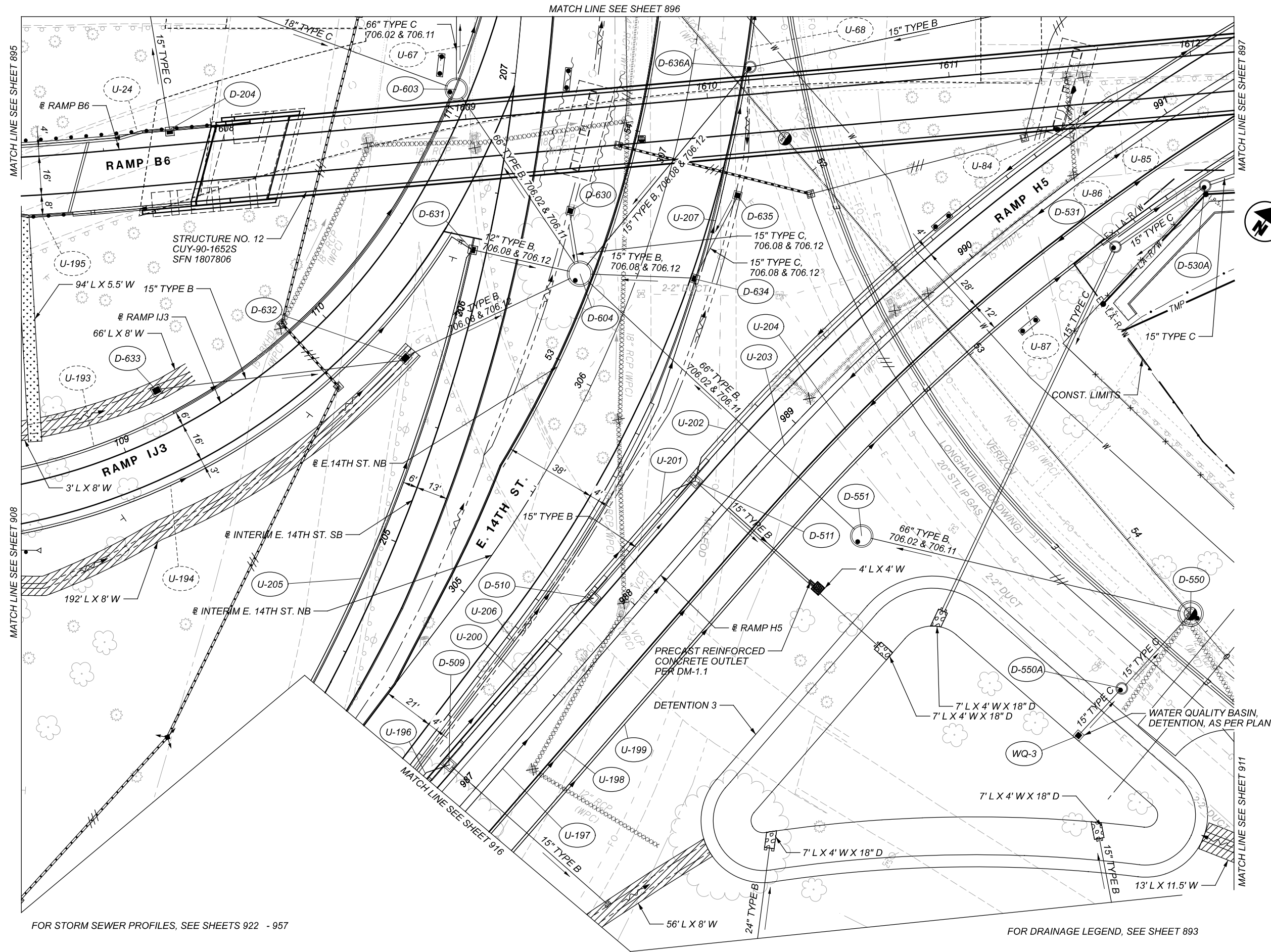
SHEET TOTAL

908 2339

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893





FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893

MATCH LINE SEE SHEET 896

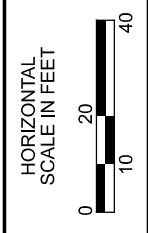
MATCH LINE SEE SHEET 895

MATCH LINE SEE SHEET 897

MATCH LINE SEE SHEET 908

MATCH LINE SEE SHEET 916

MATCH LINE SEE SHEET 911



**DRAINAGE PLAN**  
**SHEET 16 OF 28**

DESIGN AGENCY

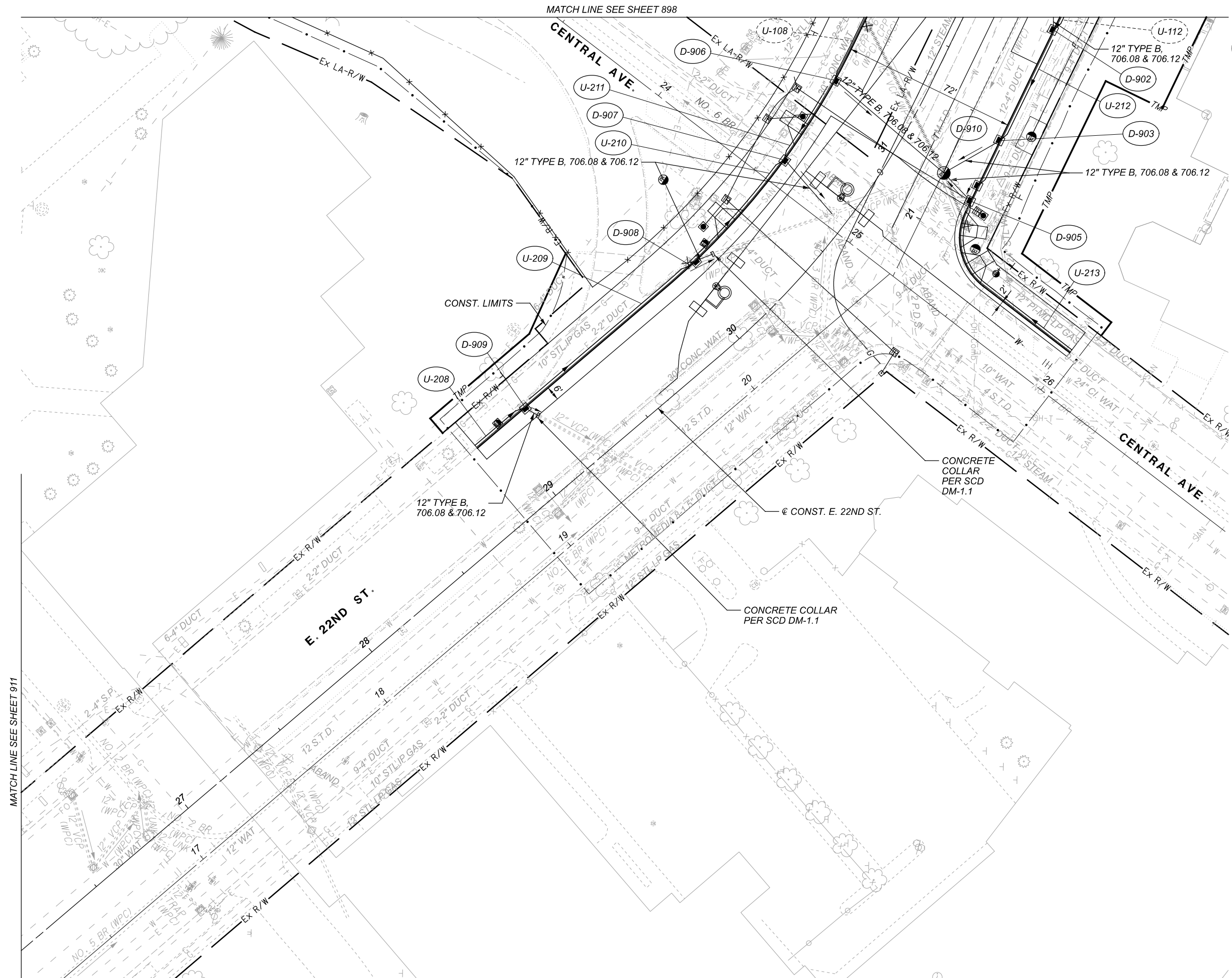
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

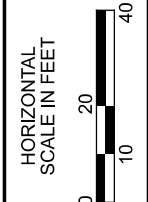
PROJECT ID  
82382

SHEET	TOTAL
909	2339



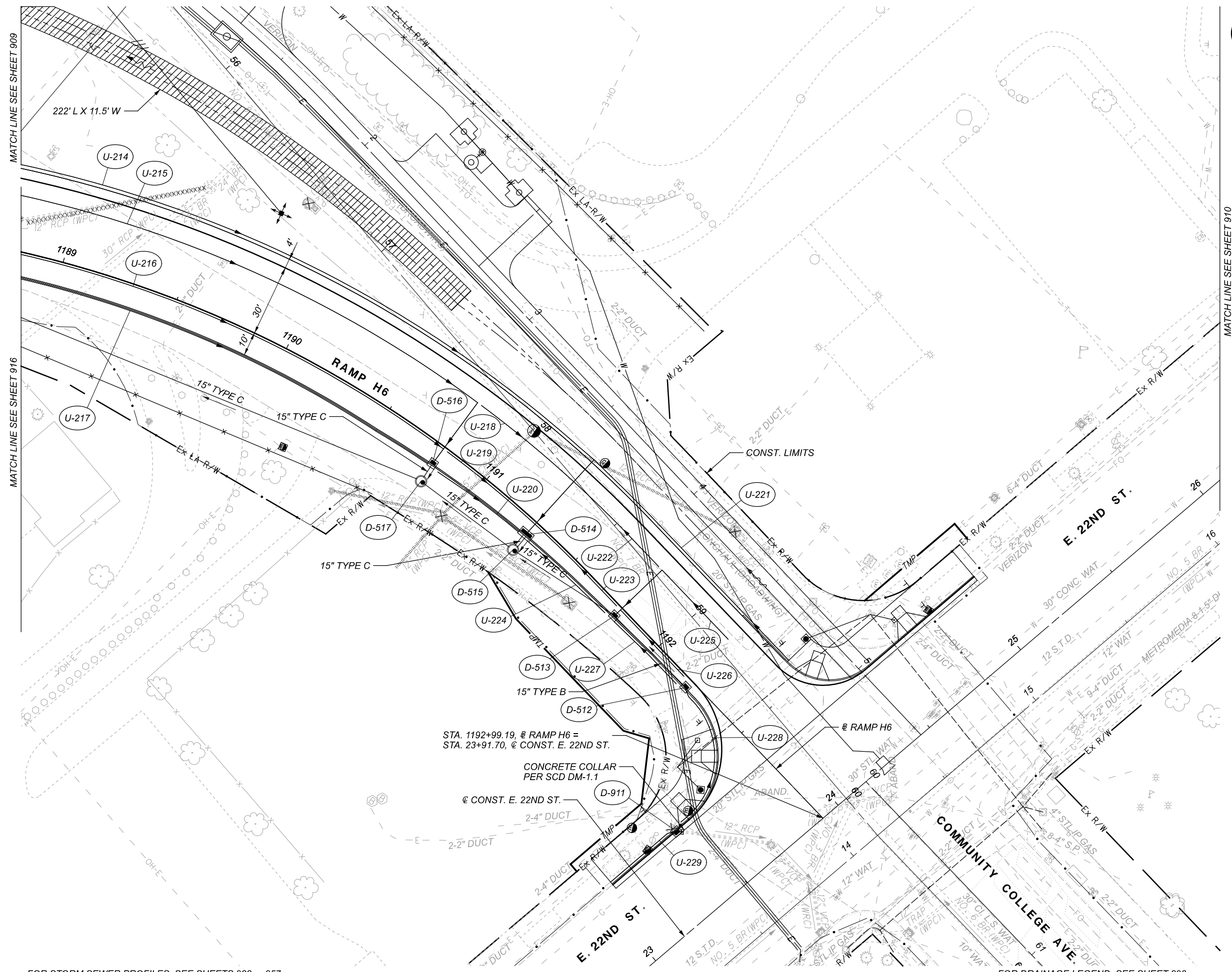
FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 17 OF 28**

DESIGN AGENCY	
<b>Michael Baker</b> INTERNATIONAL	
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	910
TOTAL	2339



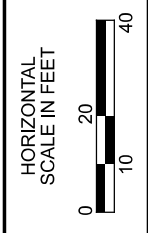
MATCH LINE SEE SHEET 909

MATCH LINE SEE SHEET 916

MATCH LINE SEE SHEET 910

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 18 OF 28**

DESIGN AGENCY

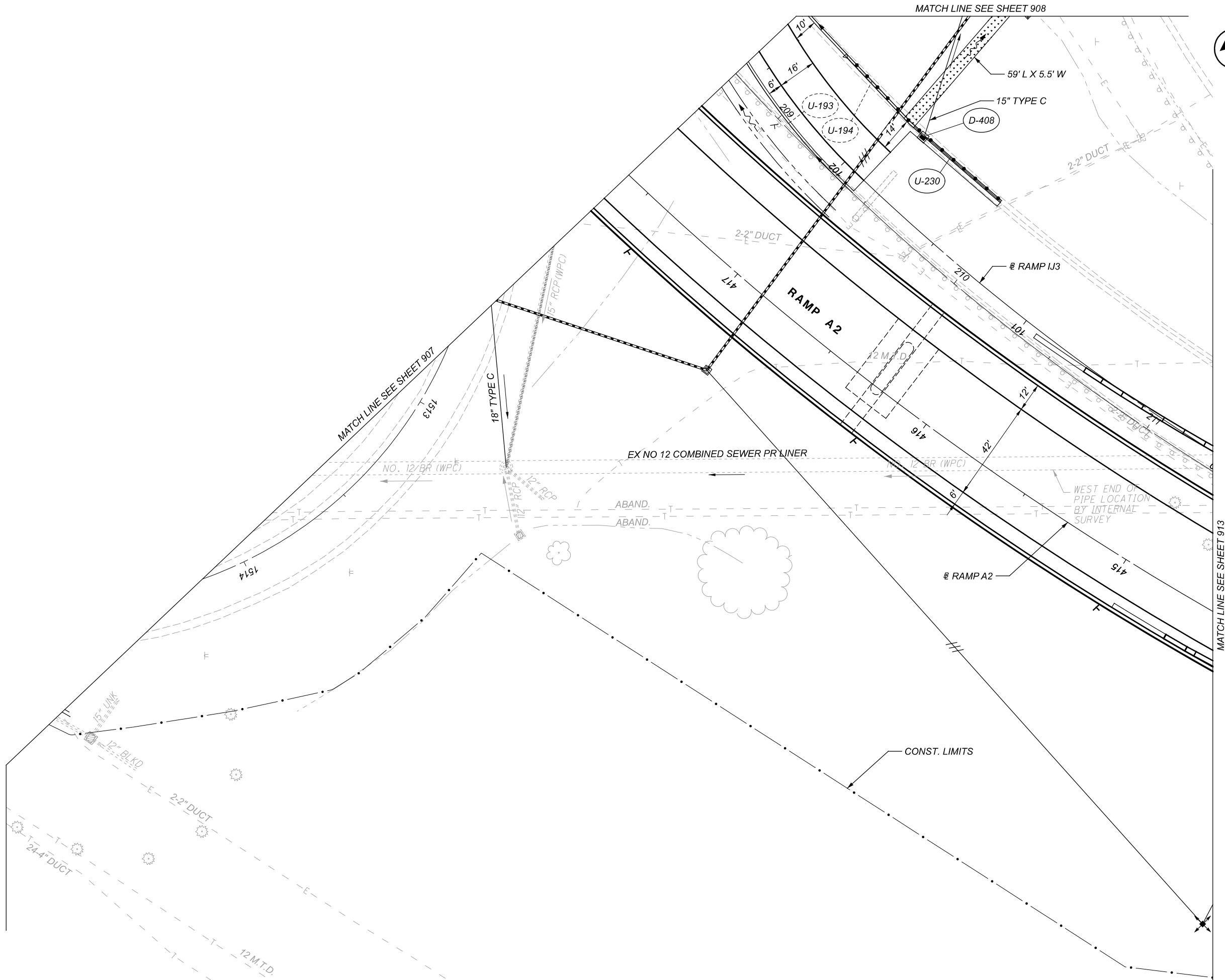
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
911	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893

DRAINAGE PLAN  
SHEET 19 OF 28

DESIGN AGENCY

Michael Baker  
INTERNATIONAL

DESIGNER

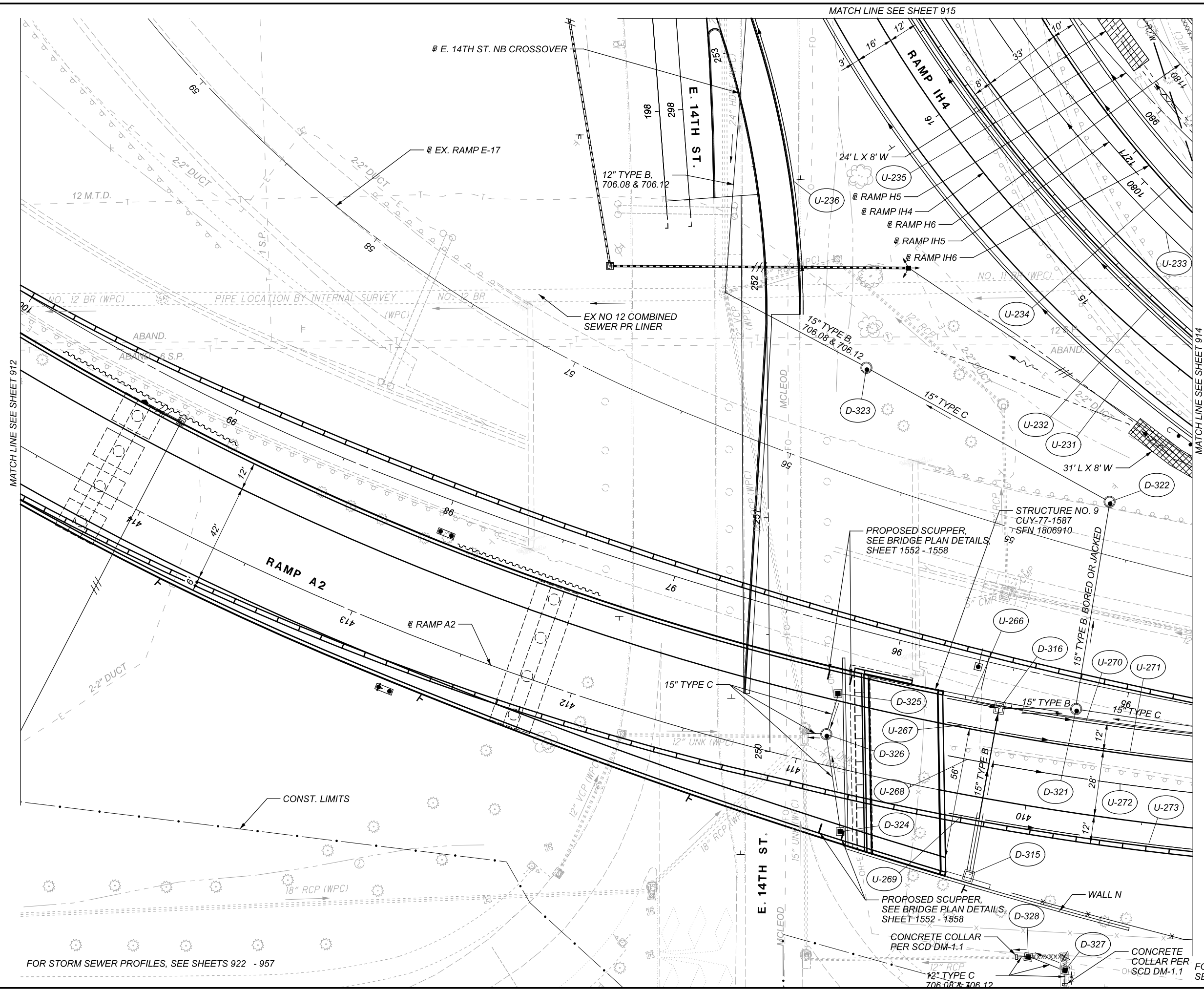
REVIEWER

PROJECT ID

82382

SHEET TOTAL

912 2339



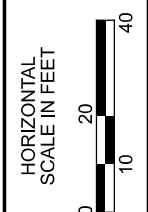
MATCH LINE SEE SHEET 912

MATCH LINE SEE SHEET 914

MATCH LINE SEE SHEET 915

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 20 OF 28**

DESIGN AGENCY

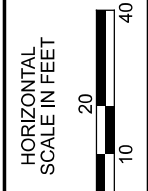
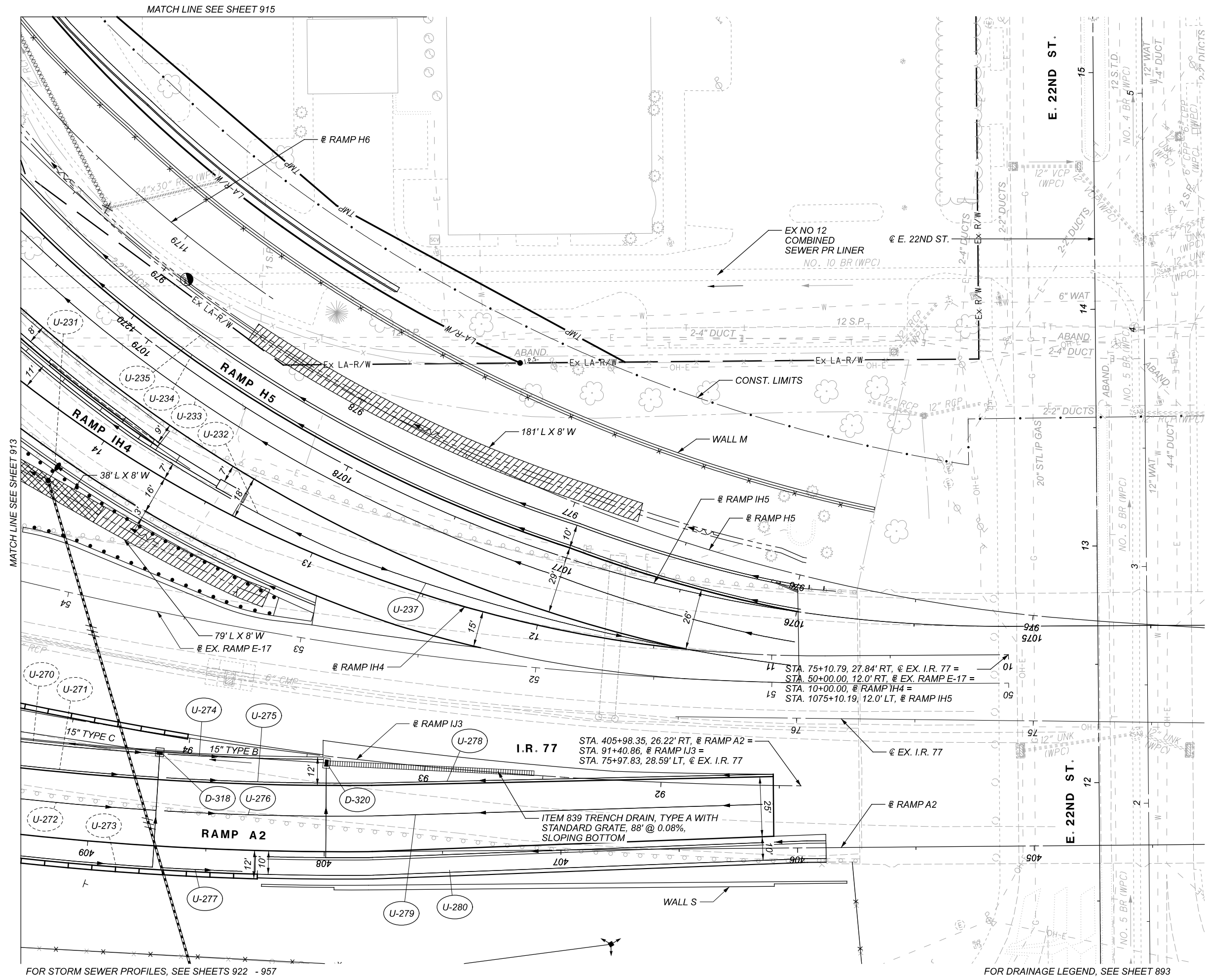
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

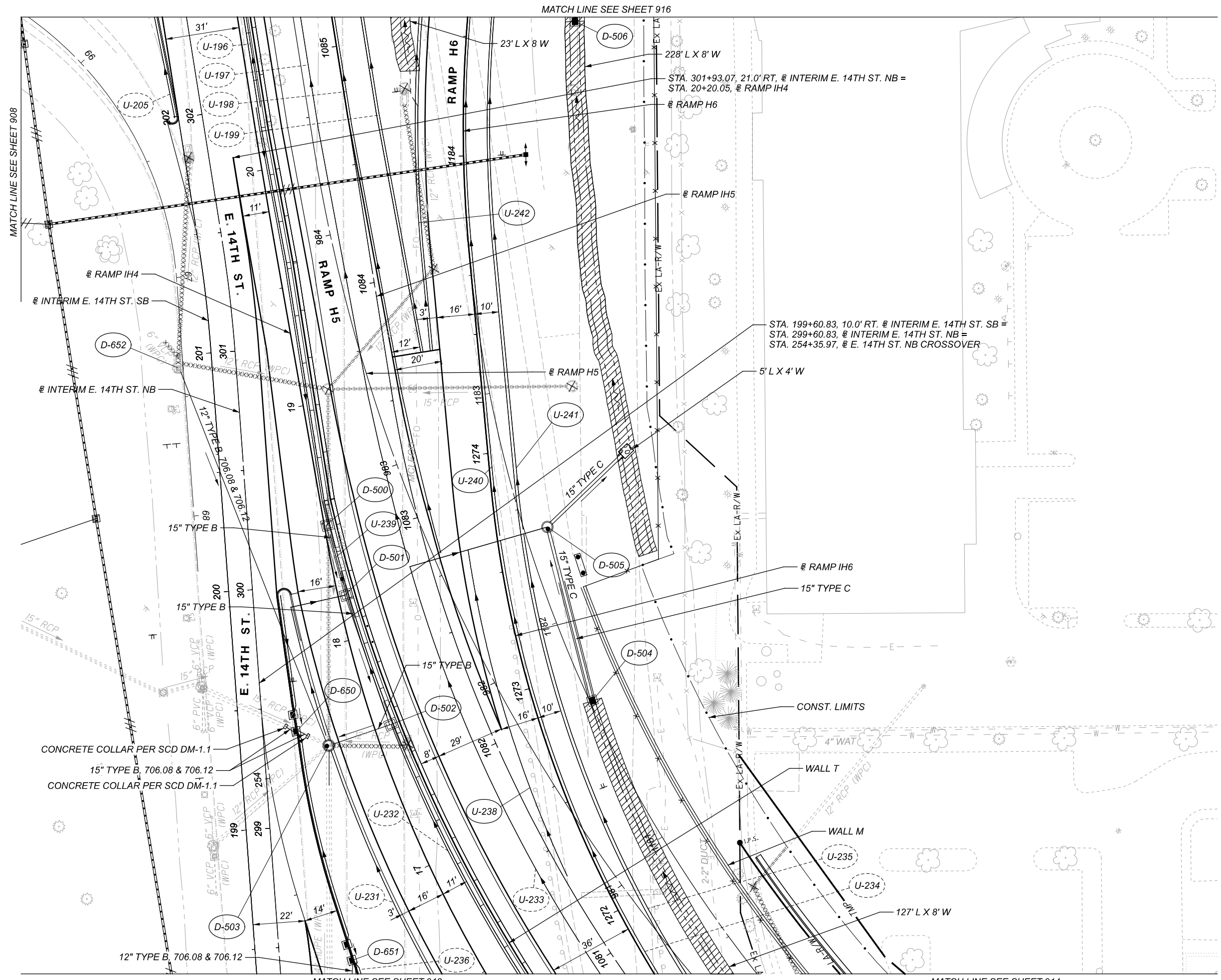
PROJECT ID  
82382

SHEET	TOTAL
913	2339



**DRAINAGE PLAN**  
**SHEET 21 OF 28**

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	
REVIEWER	
PROJECT ID	82382
SHEET	914
TOTAL	2339



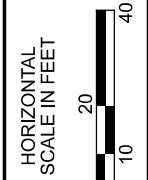
FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 913

MATCH LINE SEE SHEET 916

MATCH LINE SEE SHEET 914

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 22 OF 28**

DESIGN AGENCY

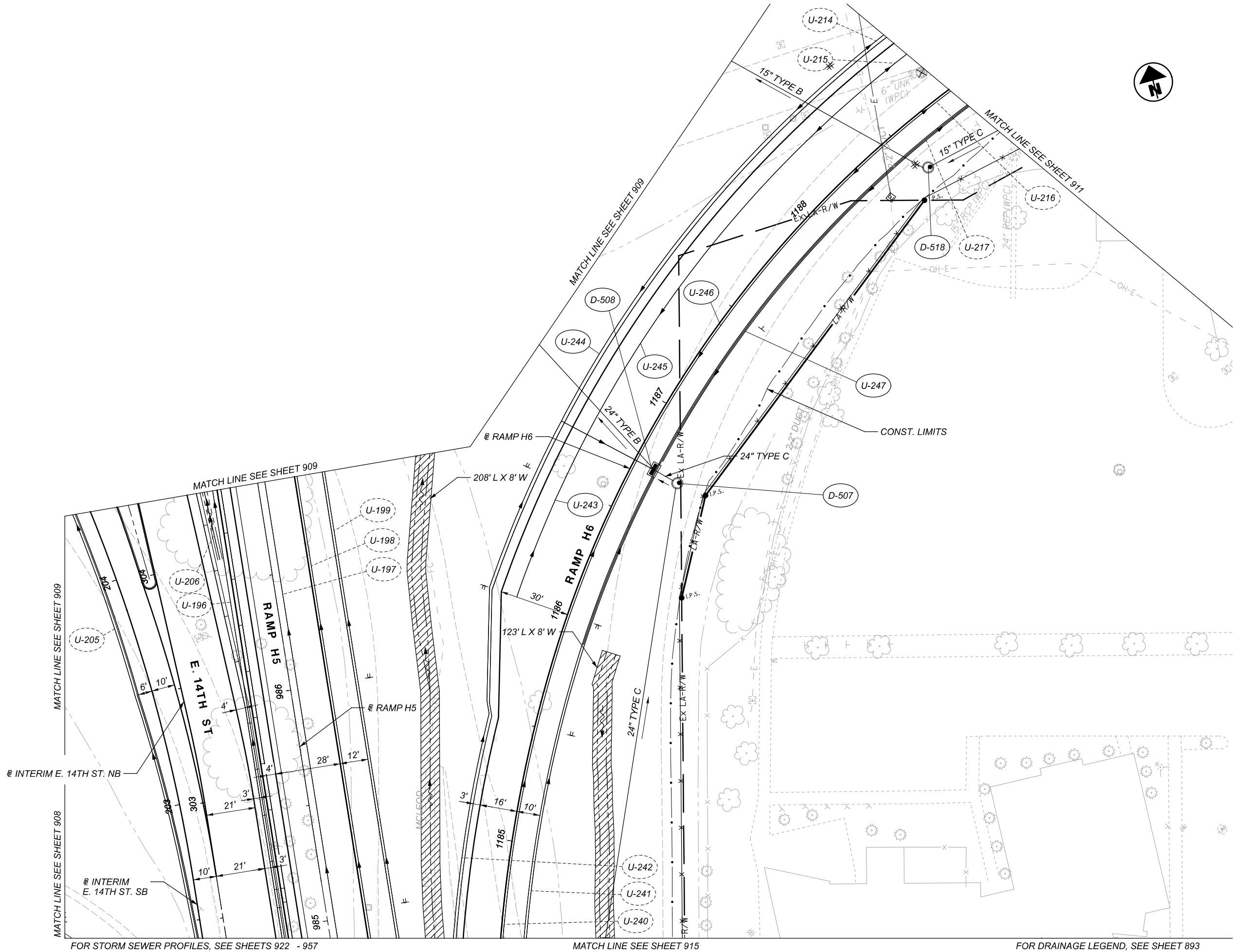
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
915	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

MATCH LINE SEE SHEET 915

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 23 OF 28**

DESIGN AGENCY

**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

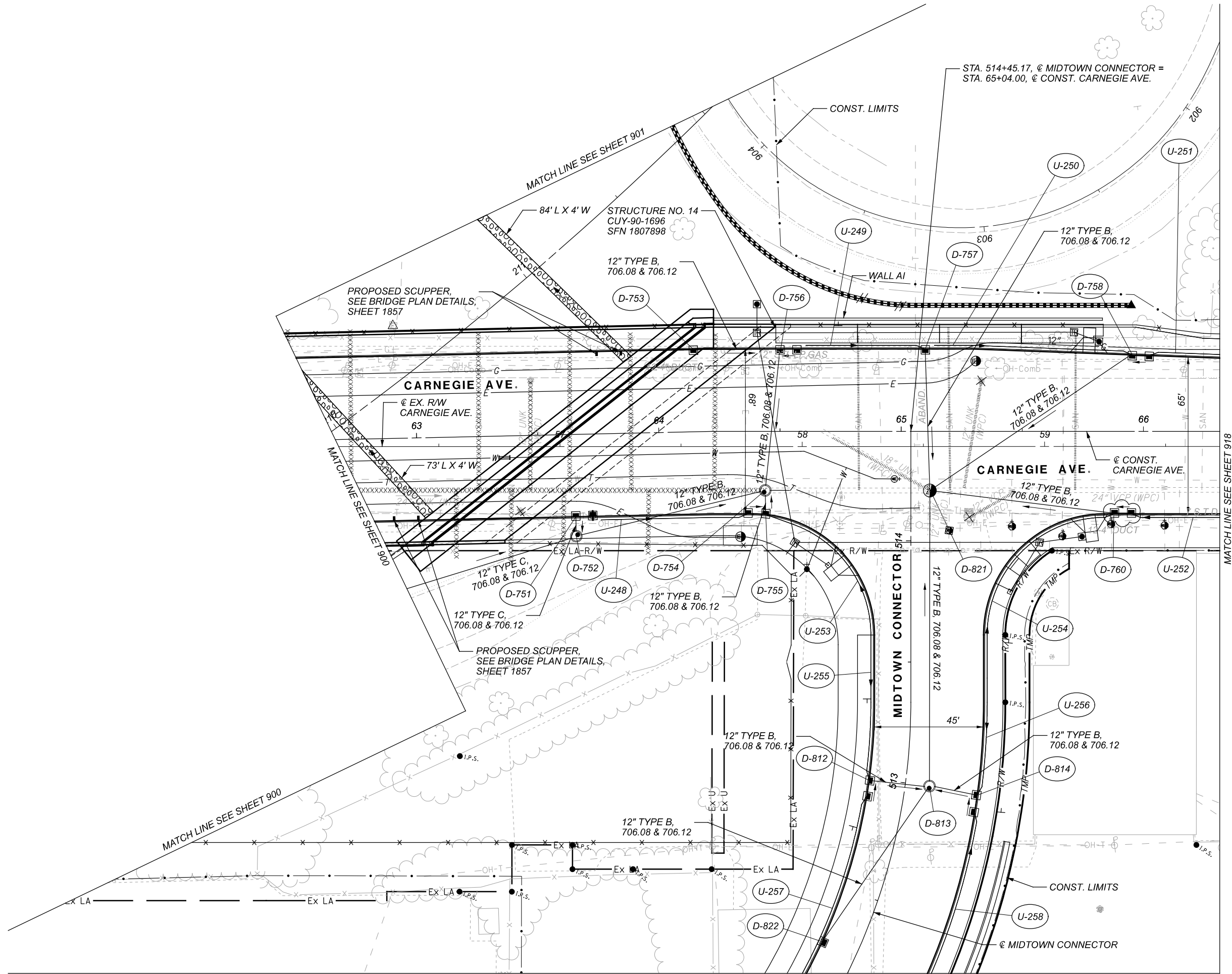
PROJECT ID

82382

SHEET TOTAL

916 2339

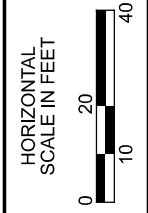




FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

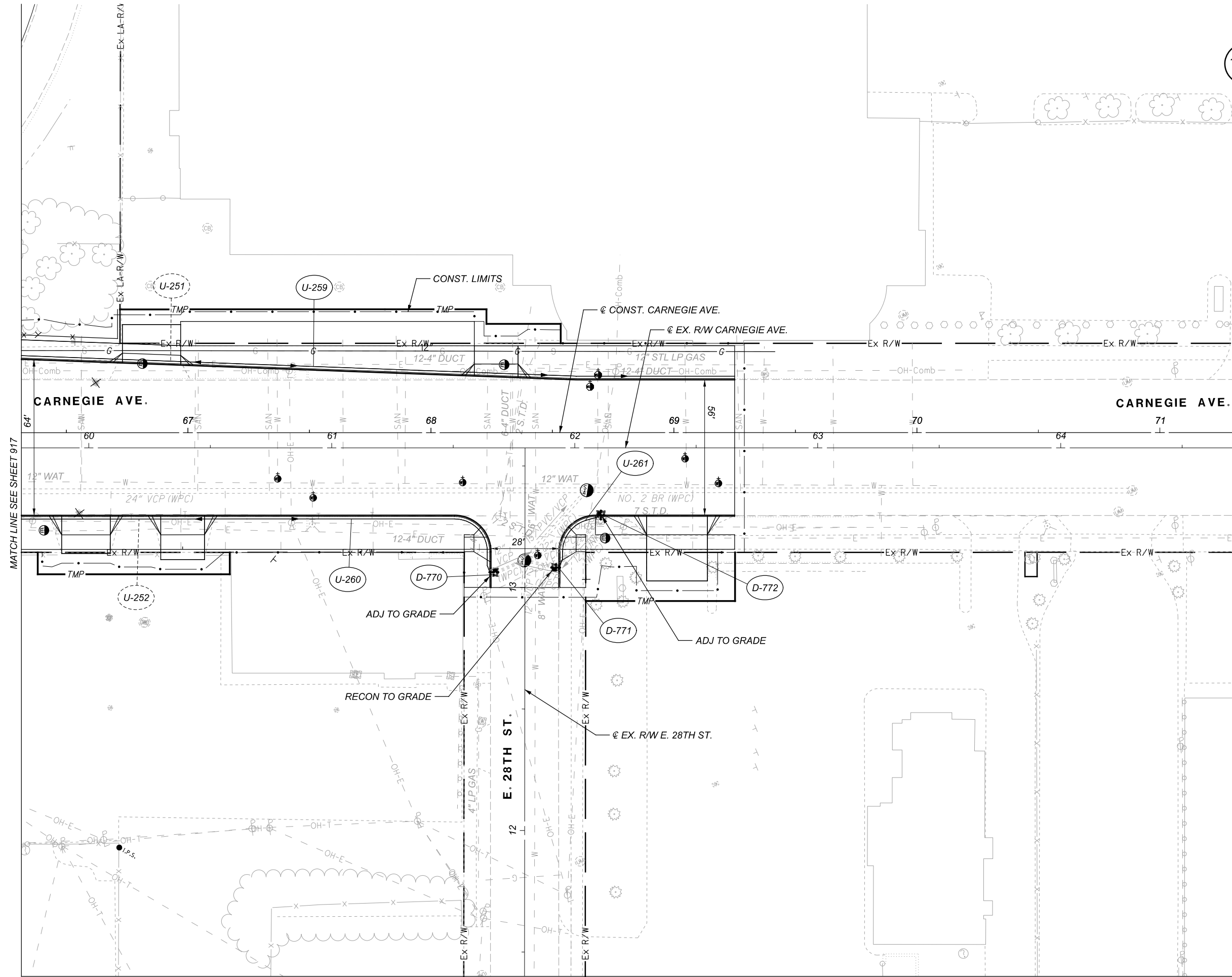
MATCH LINE SEE SHEET 920

FOR DRAINAGE LEGEND, SEE SHEET 893



DRAINAGE PLAN  
 SHEET 24 OF 28

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	917
TOTAL	2339

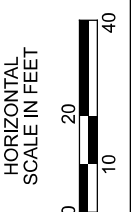


MATCH LINE SEE SHEET 917

MATCH LINE SEE SHEET 921

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 25 OF 28**

DESIGN AGENCY

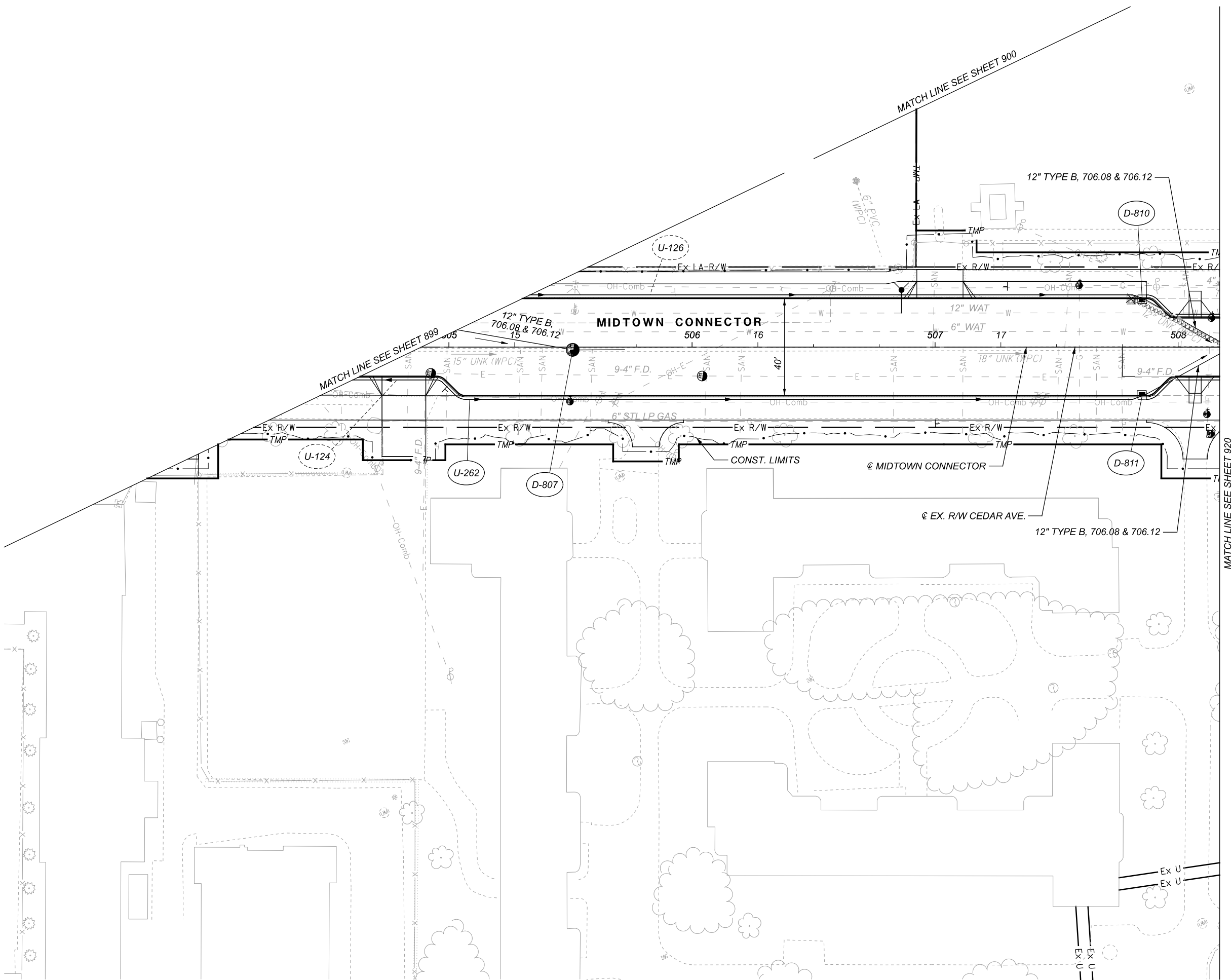
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
918	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 26 OF 28**

DESIGN AGENCY

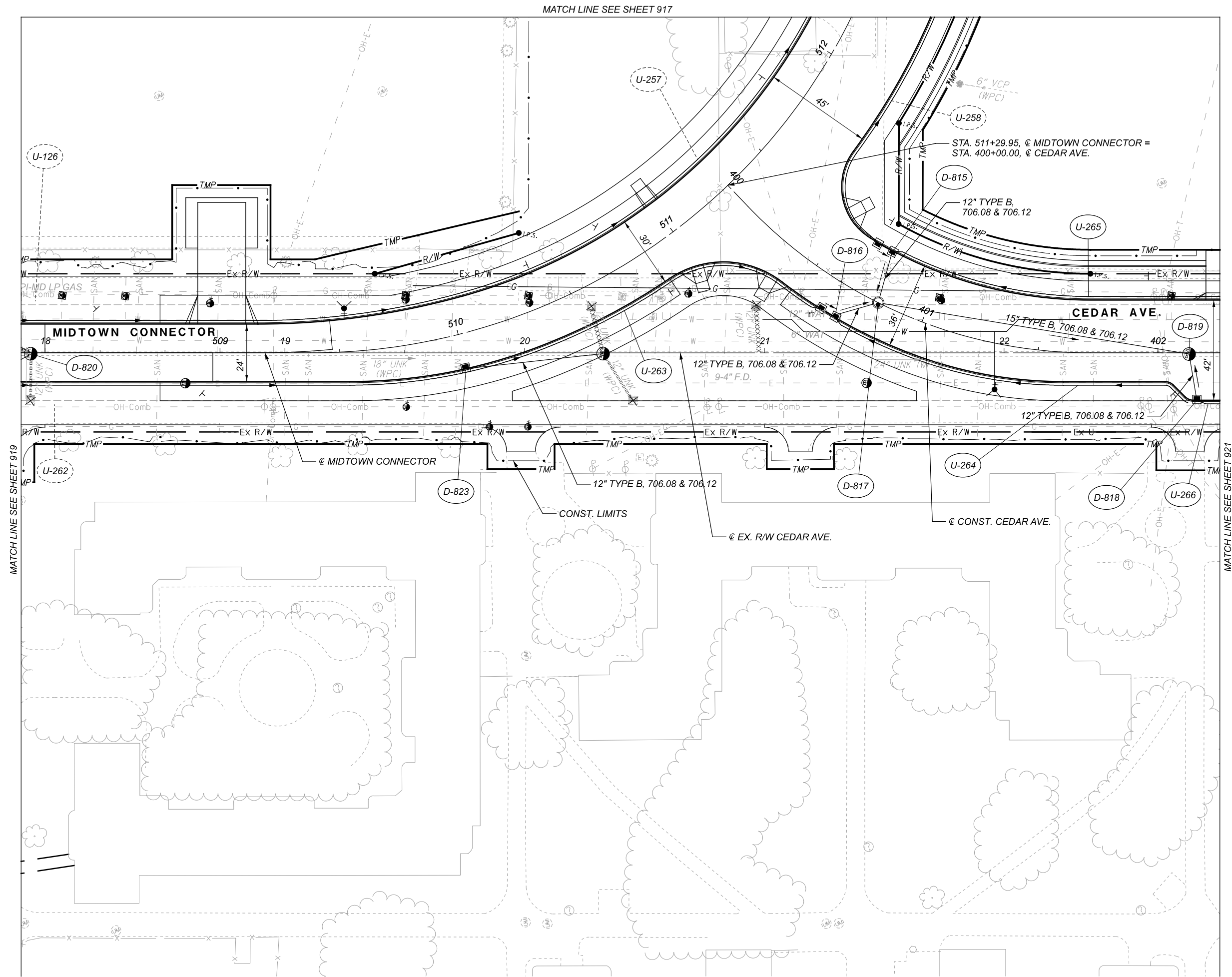
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
919	2339



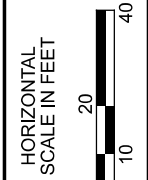
MATCH LINE SEE SHEET 917

MATCH LINE SEE SHEET 919

MATCH LINE SEE SHEET 921

FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 27 OF 28**

DESIGN AGENCY

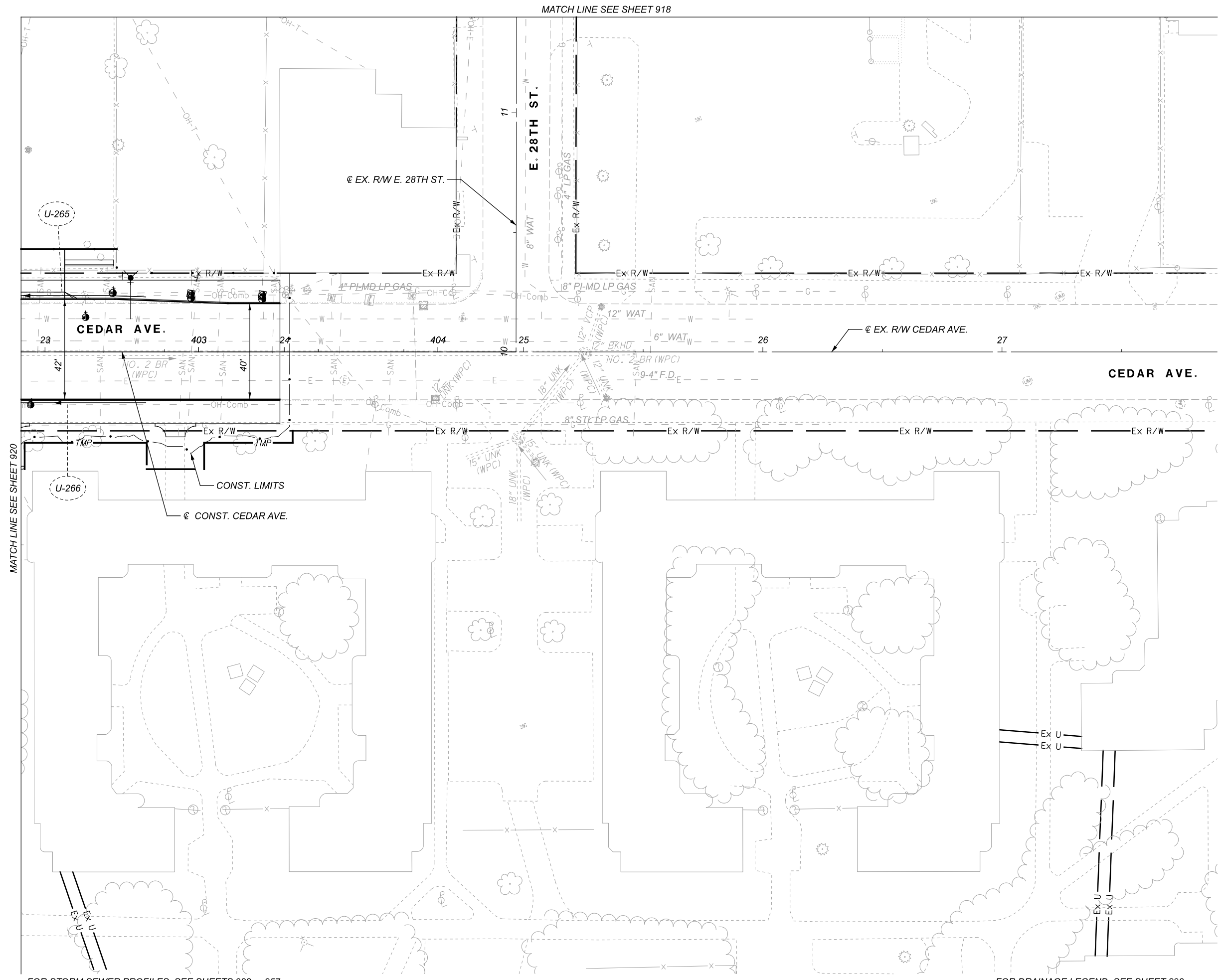
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

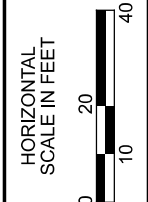
PROJECT ID  
 82382

SHEET	TOTAL
920	2339



FOR STORM SEWER PROFILES, SEE SHEETS 922 - 957

FOR DRAINAGE LEGEND, SEE SHEET 893



**DRAINAGE PLAN**  
**SHEET 28 OF 28**

DESIGN AGENCY

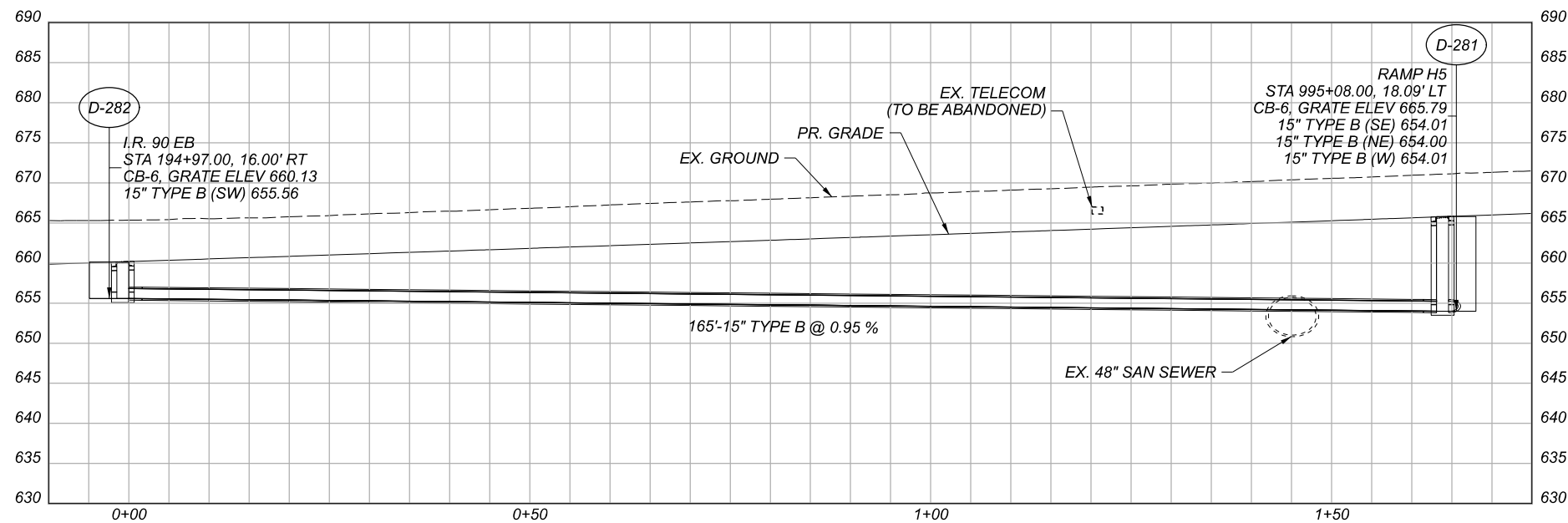
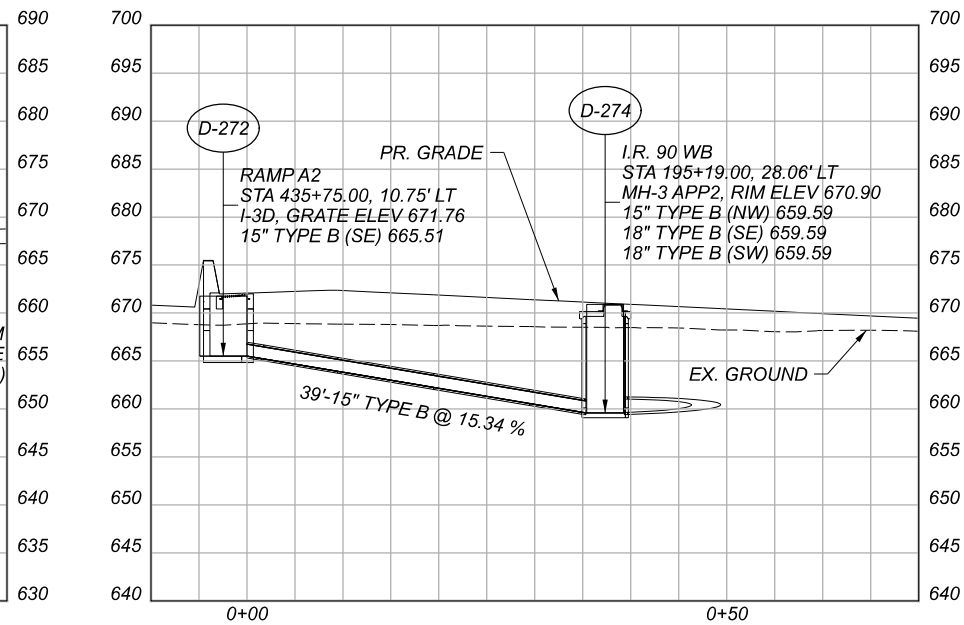
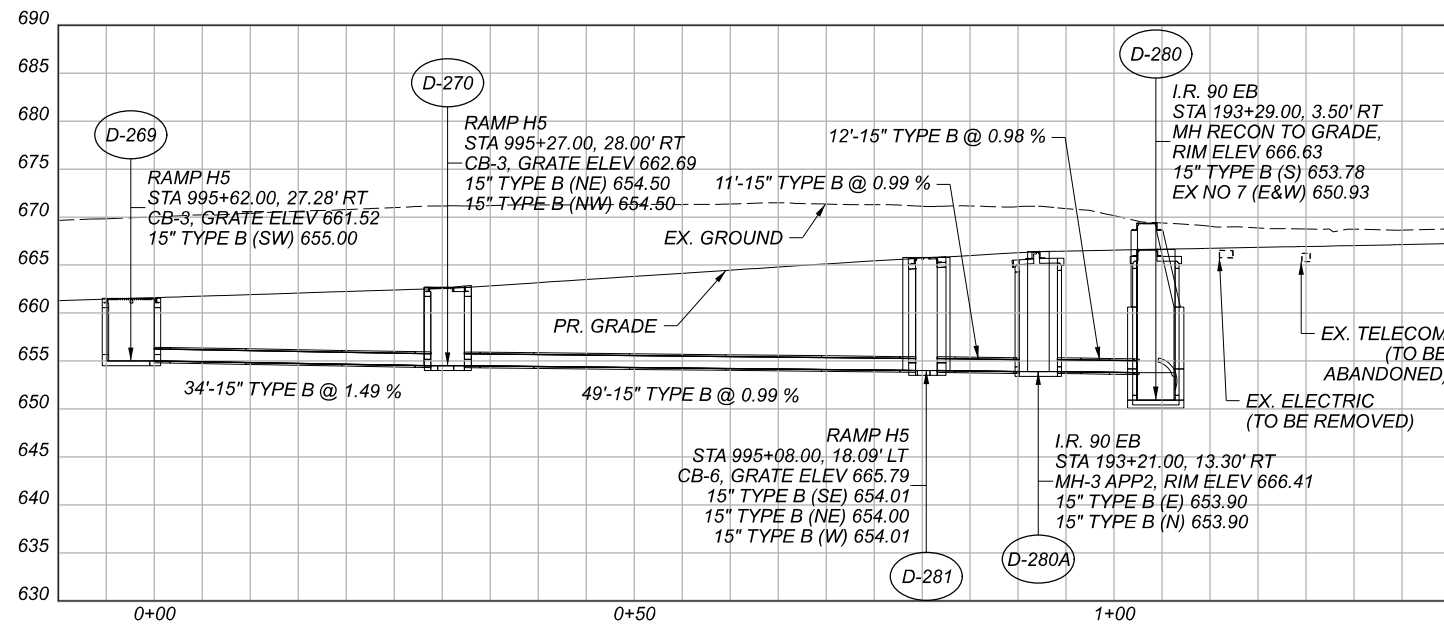
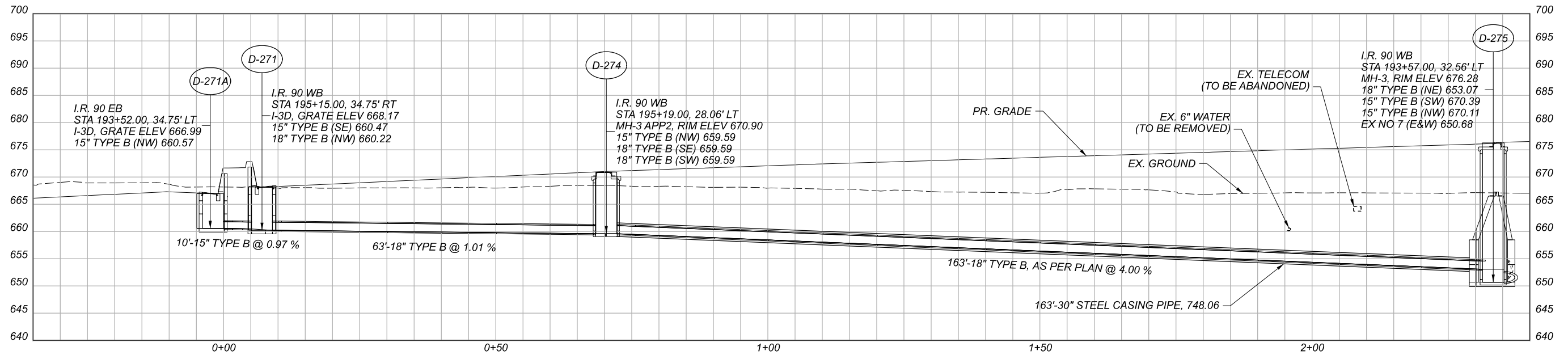
**Michael Baker**  
INTERNATIONAL

DESIGNER

REVIEWER

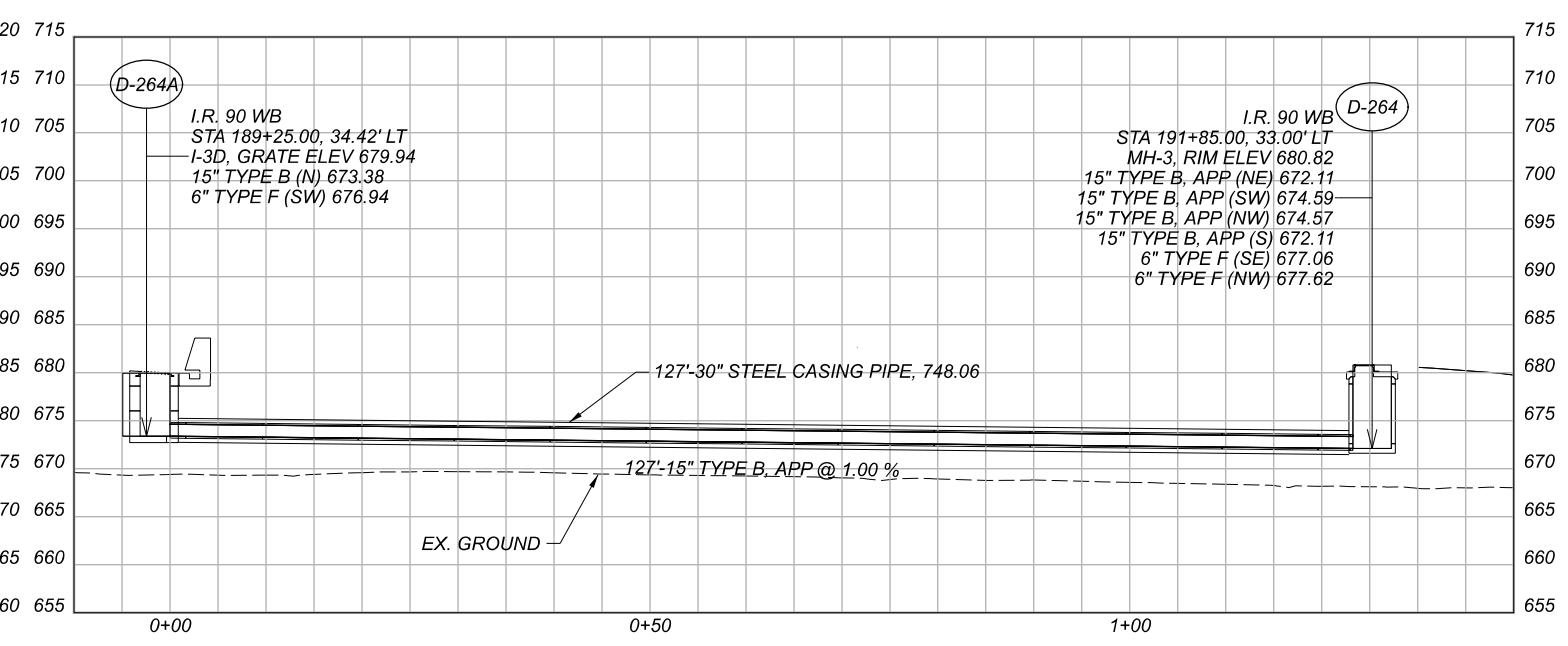
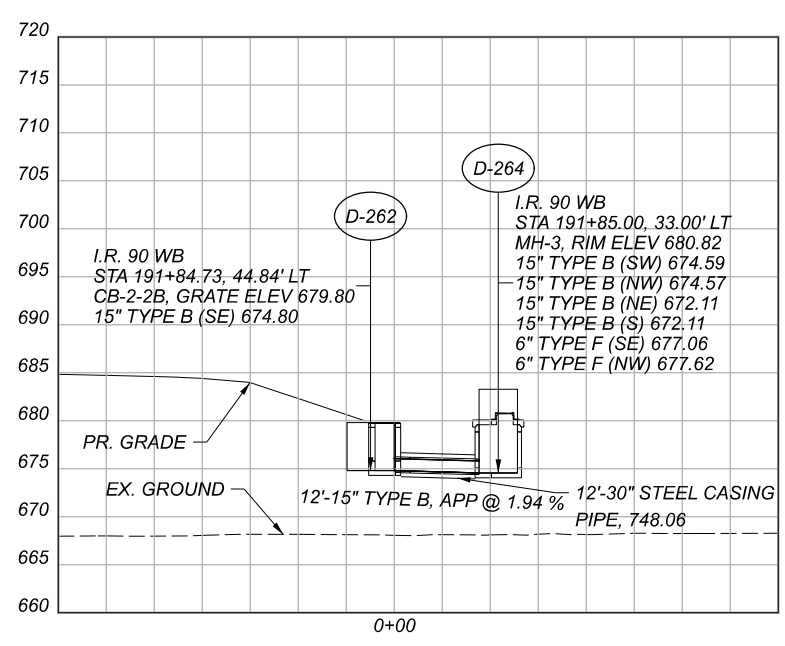
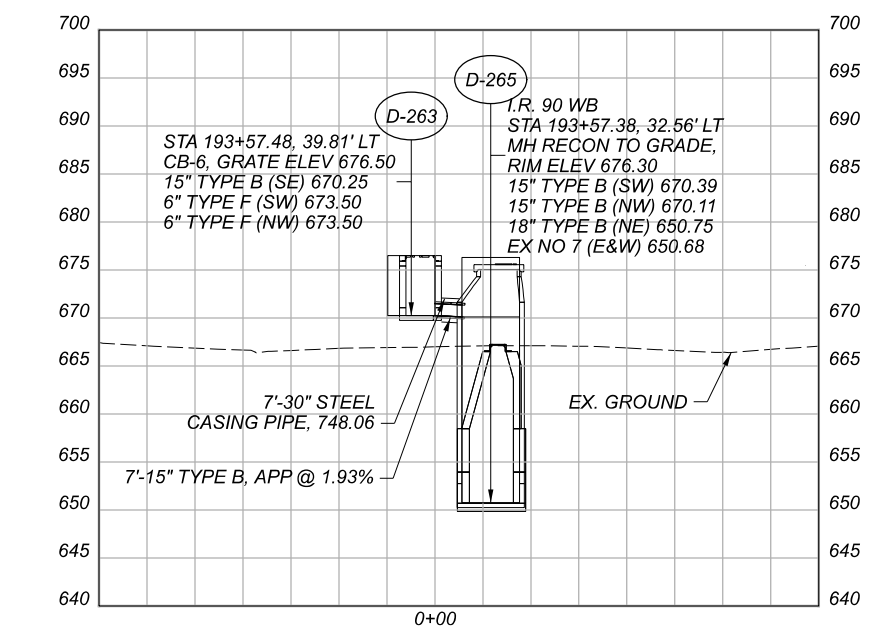
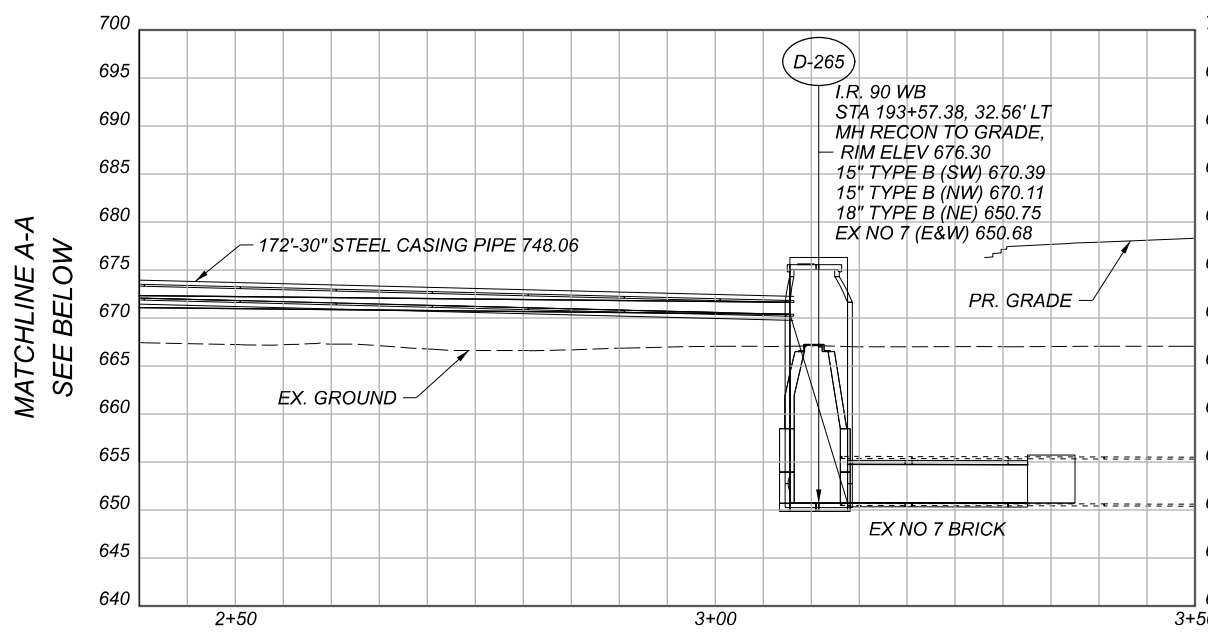
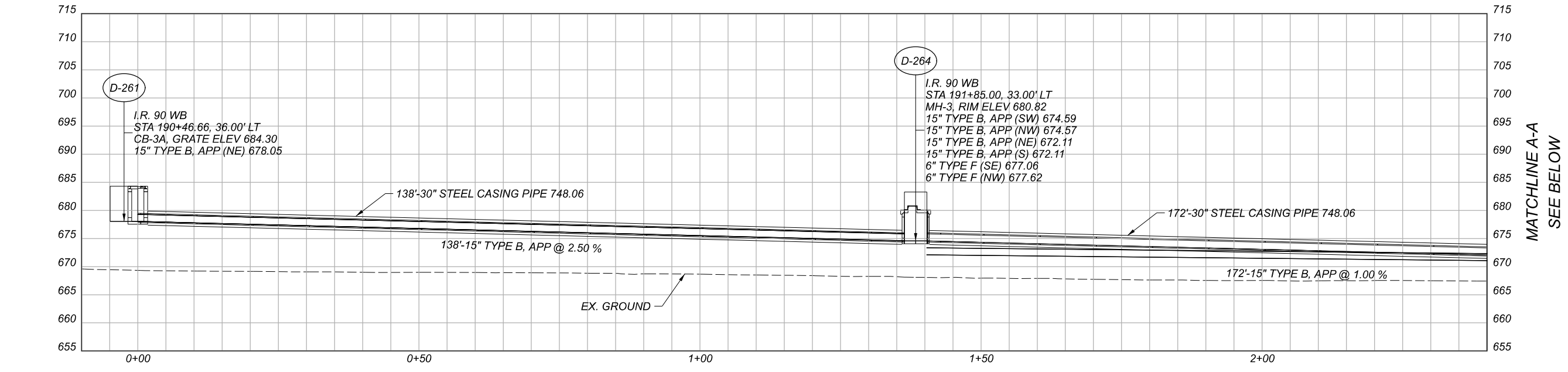
PROJECT ID  
82382

SHEET	TOTAL
921	2339



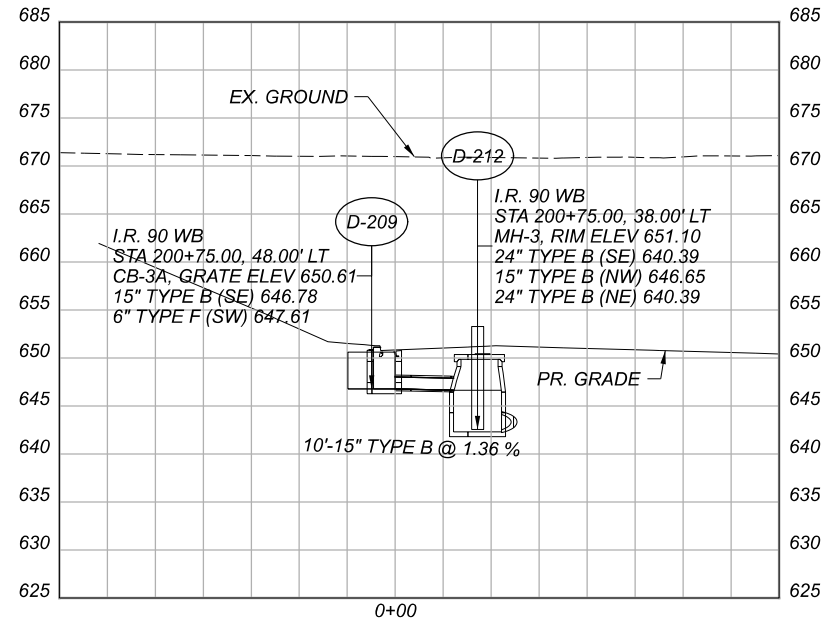
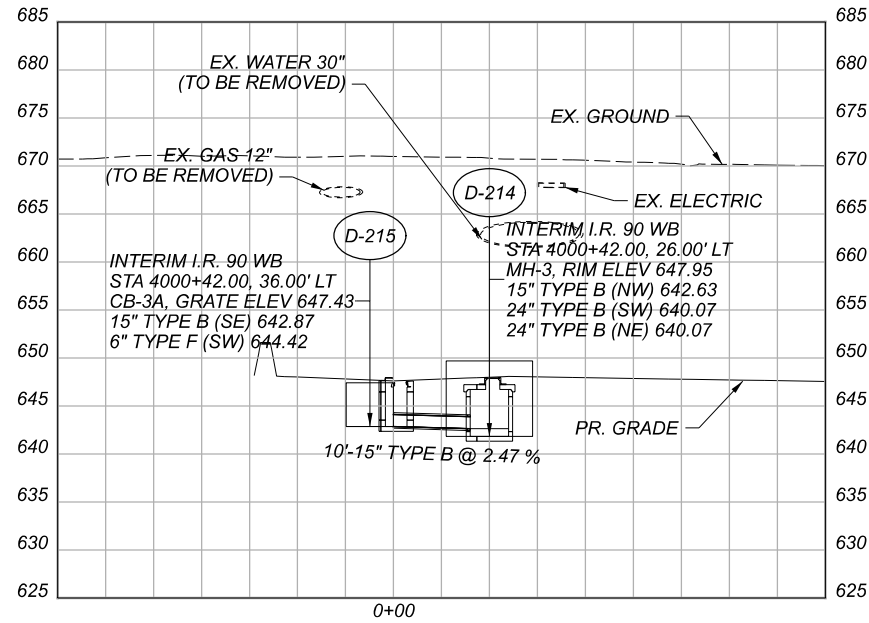
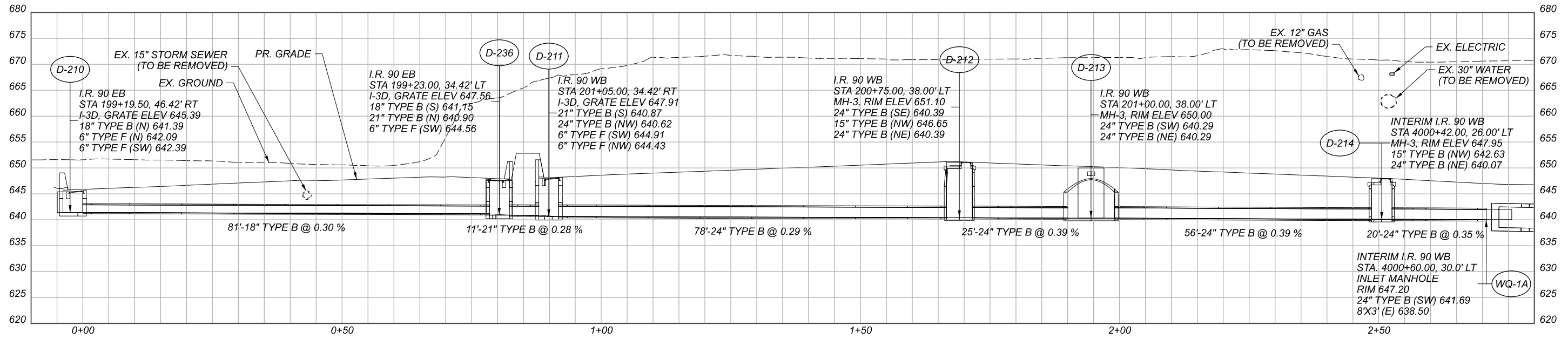
STORM SEWER PROFILES  
 I.R. 90 (NEAR RAMP A2 AND RAMP H5 GORES)

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	922
TOTAL	2339



STORM SEWER PROFILES  
 I.R. 90 (BETWEEN E. 14TH ST. BRIDGES & RAMP A2)

DESIGN AGENCY	
<b>Michael Baker</b> INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	923
TOTAL	2339



STORM SEWER PROFILES  
 I.R. 90 (WEST OF E. 22ND ST. BRIDGE)

DESIGN AGENCY

Michael Baker  
 INTERNATIONAL

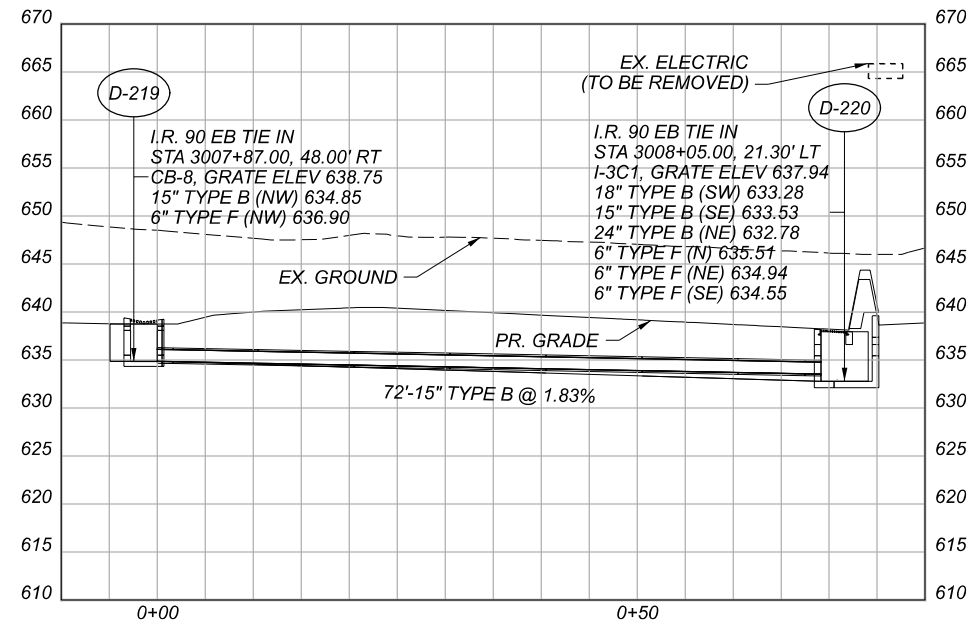
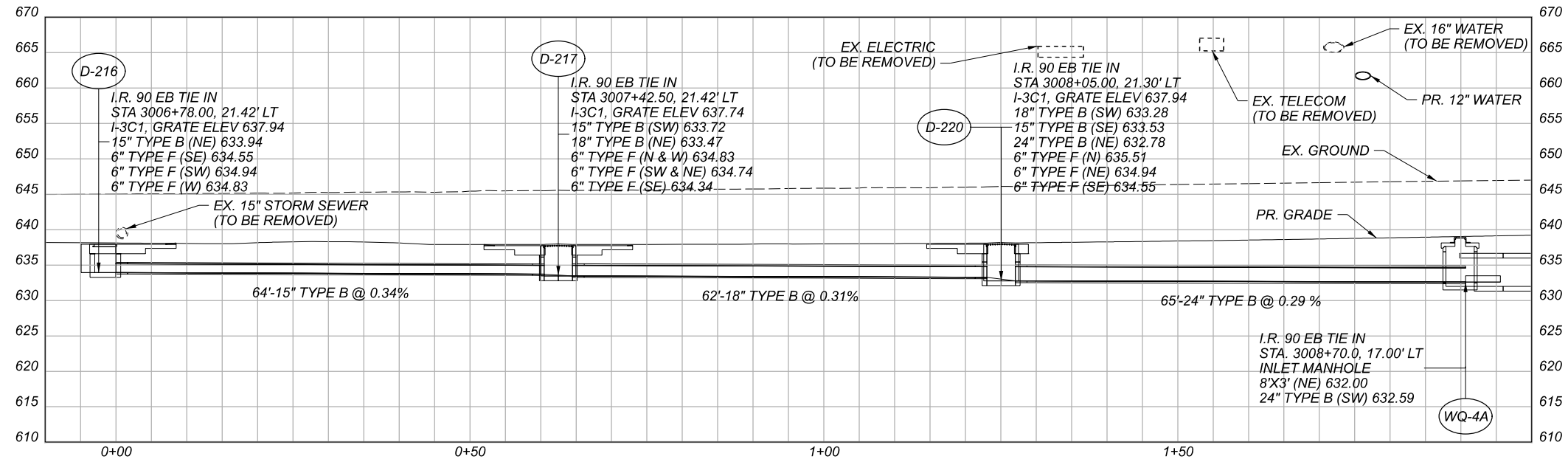
DESIGNER  
 XXX

REVIEWER  
 XXX MM-DD-YY

PROJECT ID  
 82382

SHEET TOTAL  
 924 2339





STORM SEWER PROFILES  
 I.R. 90 EB (WEST/SOUTH OF CARNEGIE AVE. BRIDGE)

DESIGN AGENCY

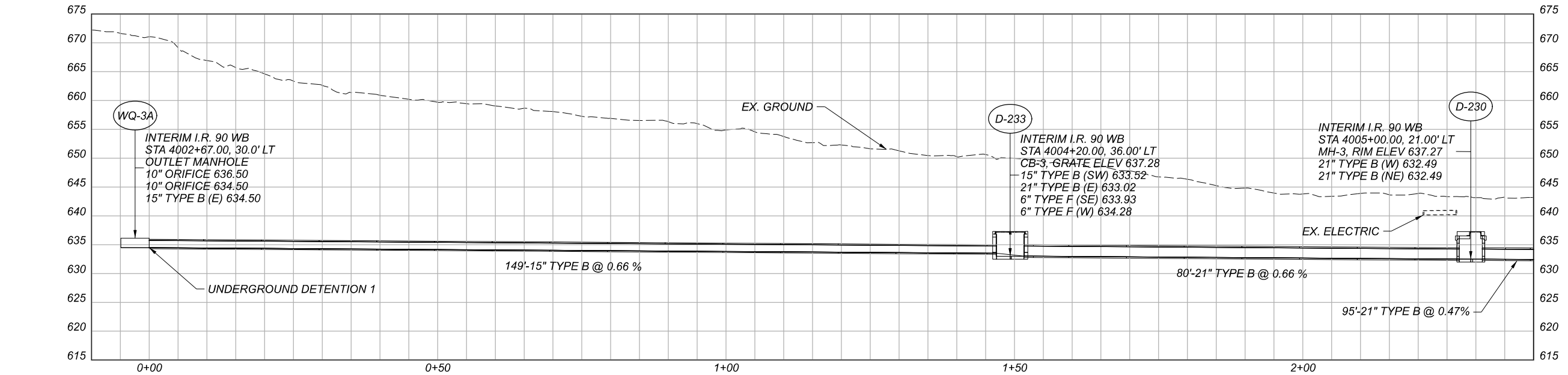
**Michael Baker**  
 INTERNATIONAL

DESIGNER

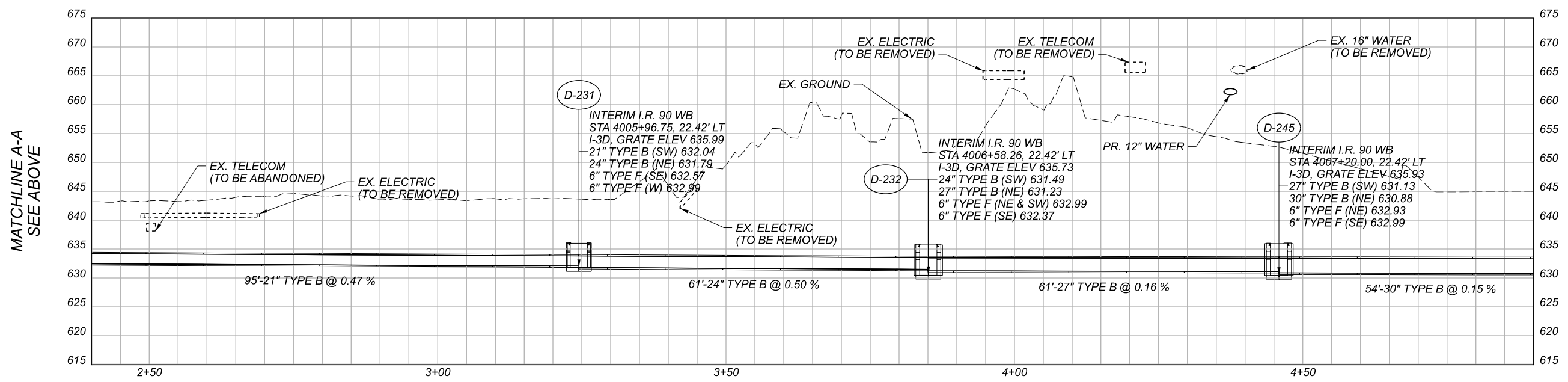
REVIEWER

PROJECT ID  
 82382

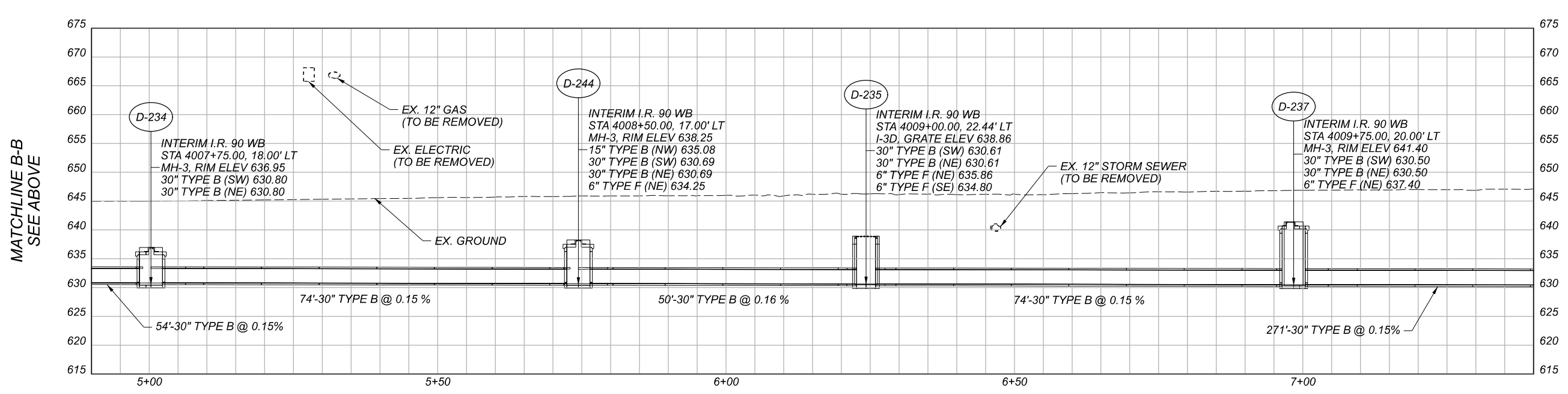
SHEET	TOTAL
925	2339



MATCHLINE A-A  
SEE BELOW



MATCHLINE B-B  
SEE BELOW

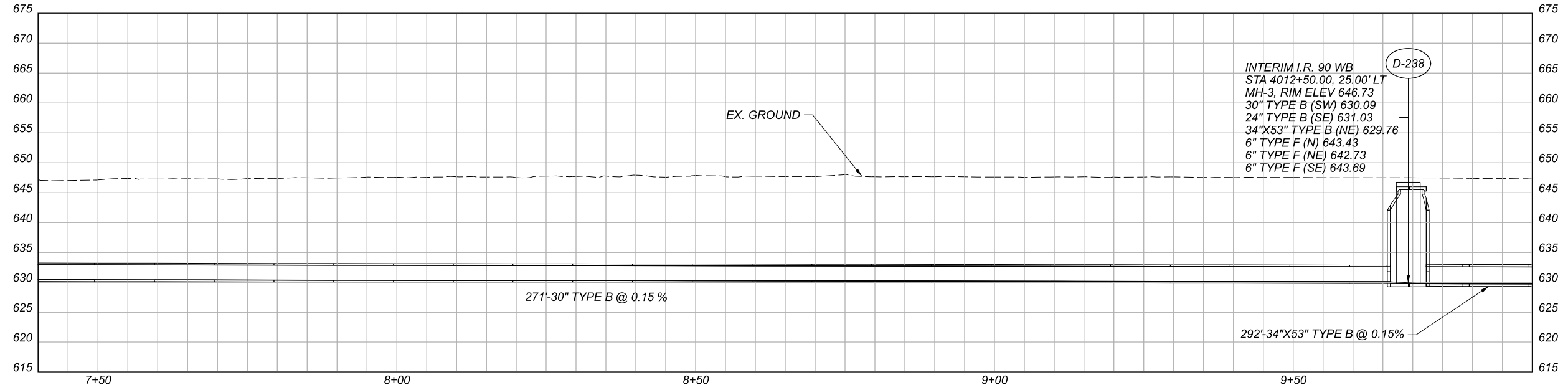


MATCHLINE C-C  
SEE SHEET 927

STORM SEWER PROFILES  
 I.R. 90 WB (FROM E. 22ND ST. BRIDGE TO EAST/NORTH PROJECT LIMITS)

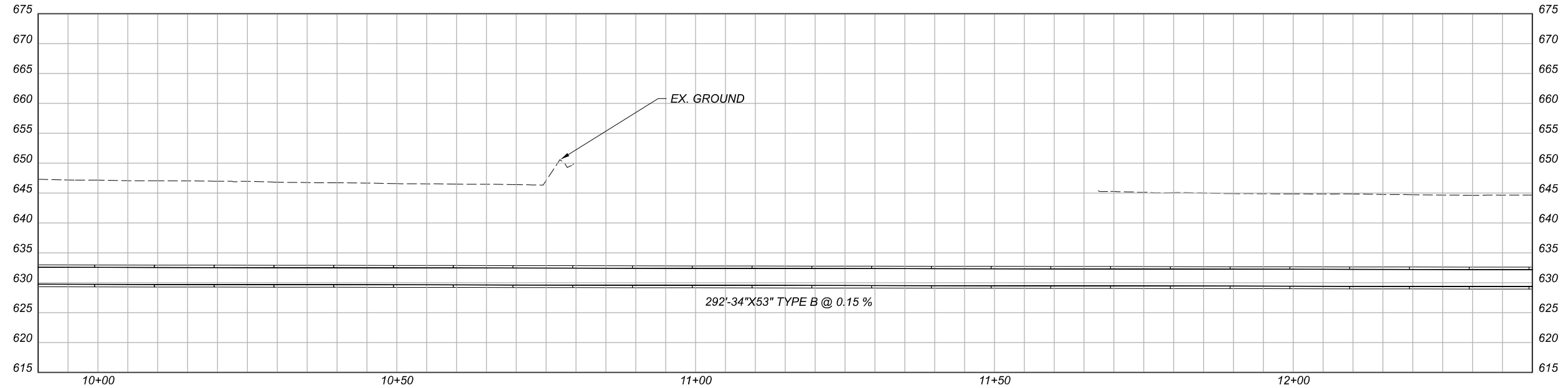
DESIGN AGENCY	
<b>Michael Baker INTERNATIONAL</b>	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	TOTAL
926	2339

MATCHLINE C-C  
SEE SHEET 922



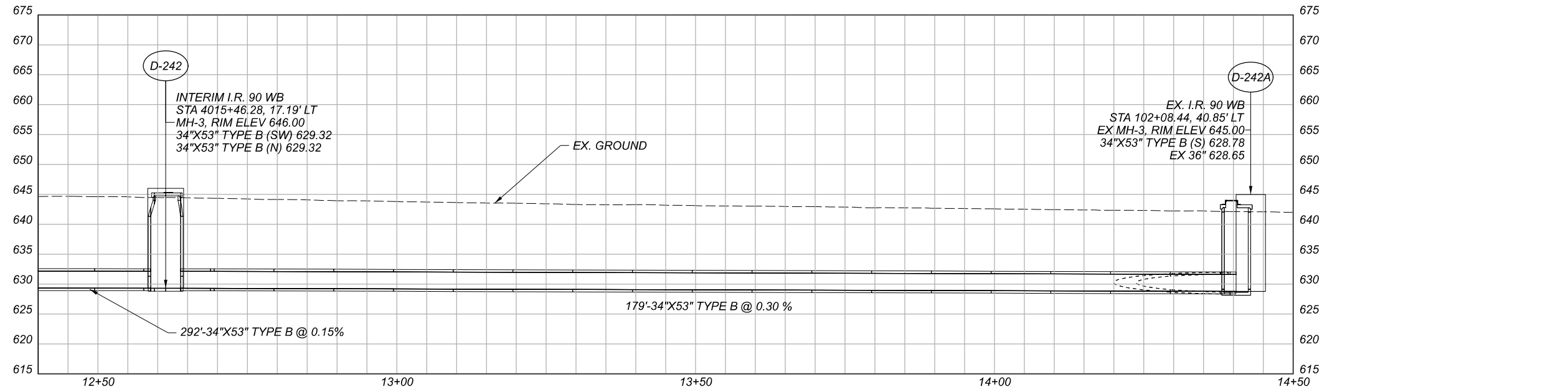
MATCHLINE D-D  
SEE BELOW

MATCHLINE D-D  
SEE ABOVE



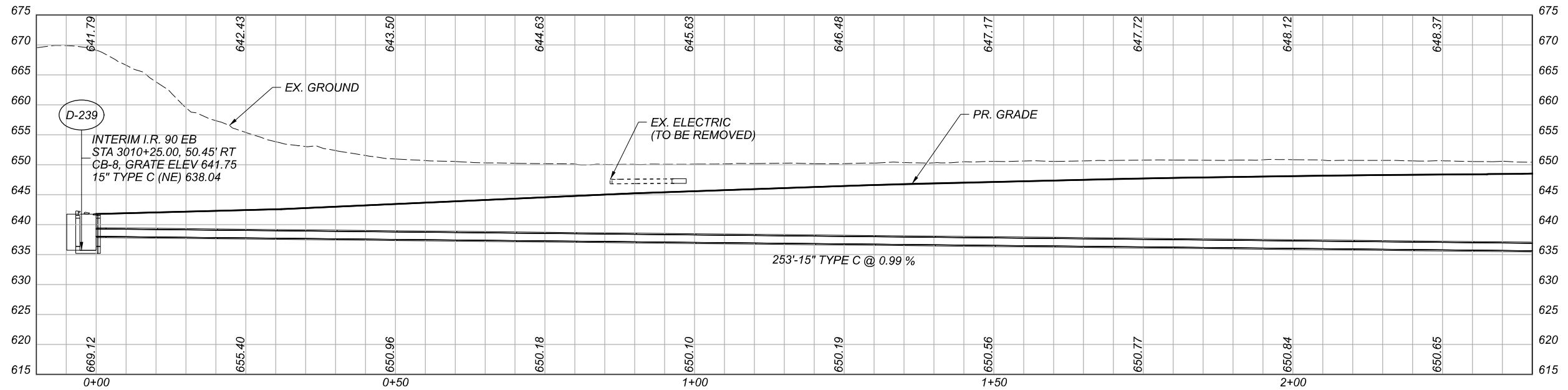
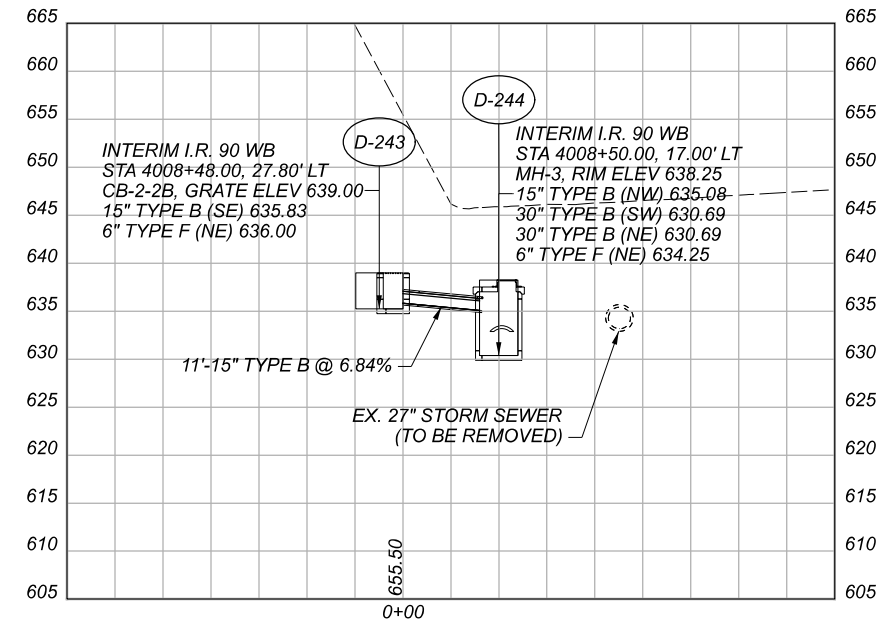
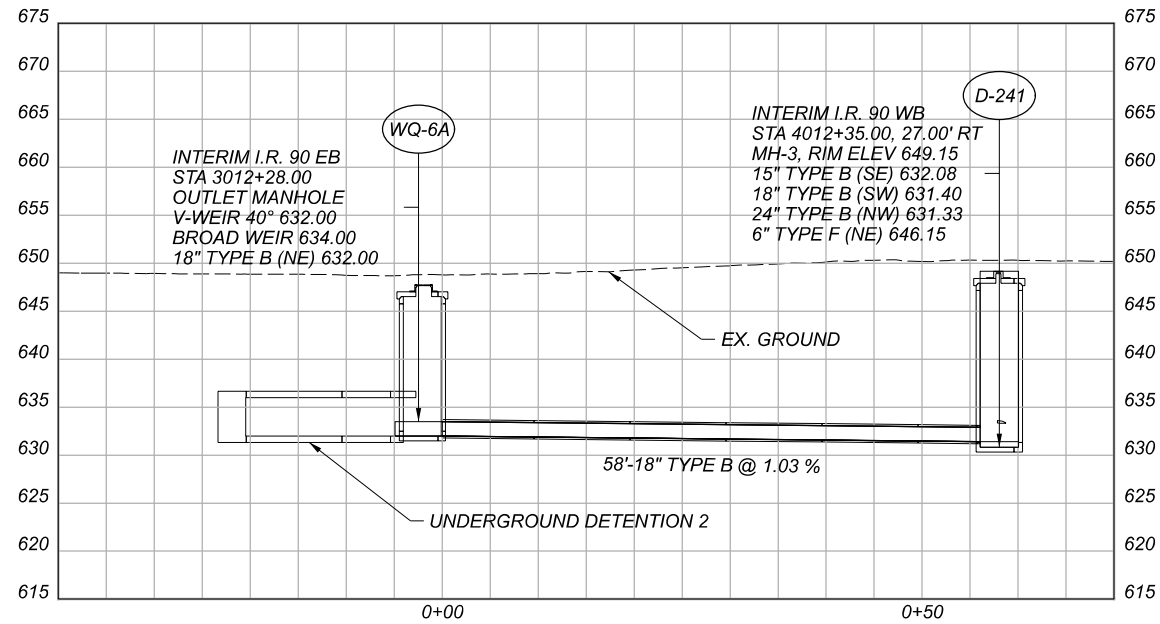
MATCHLINE E-E  
SEE BELOW

MATCHLINE E-E  
SEE ABOVE



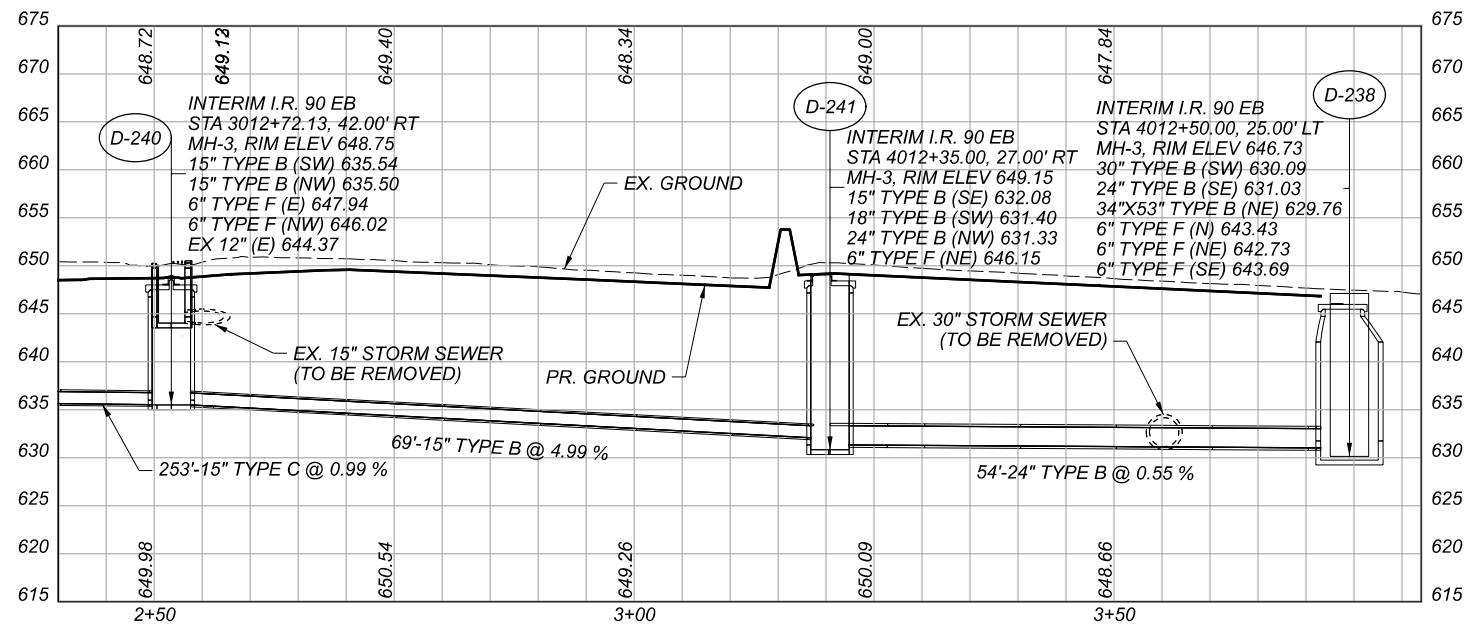
I.R. 90 WB (FROM E. 22ND ST. BRIDGE TO EAST/NORTH PROJECT LIMITS)  
 STORM SEWER PROFILES

DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
REVIEWER	XXX
PROJECT ID	82382
SHEET	927
TOTAL	2339



MATCHLINE A-A  
 SEE BELOW

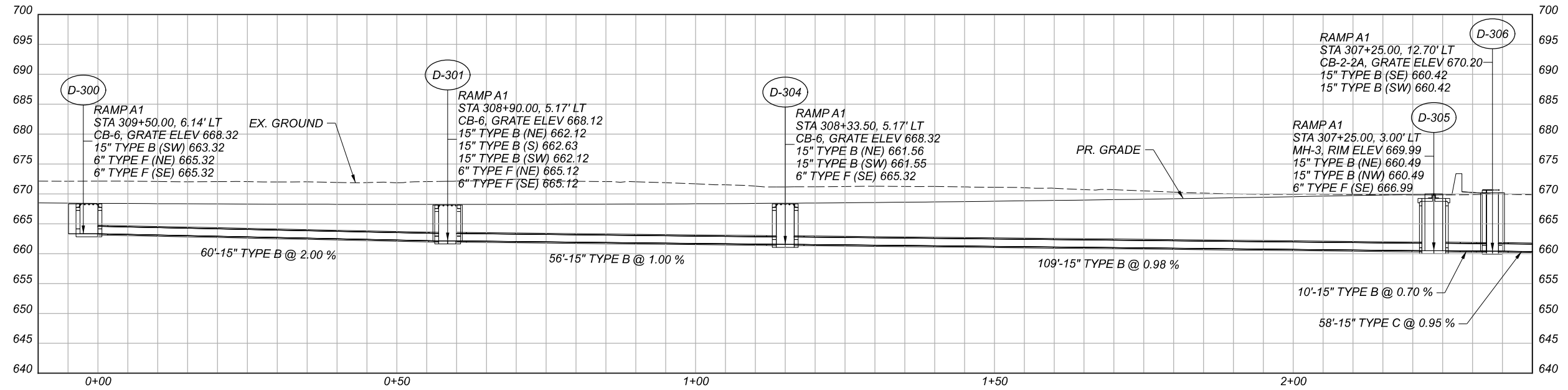
MATCHLINE A-A  
 SEE ABOVE



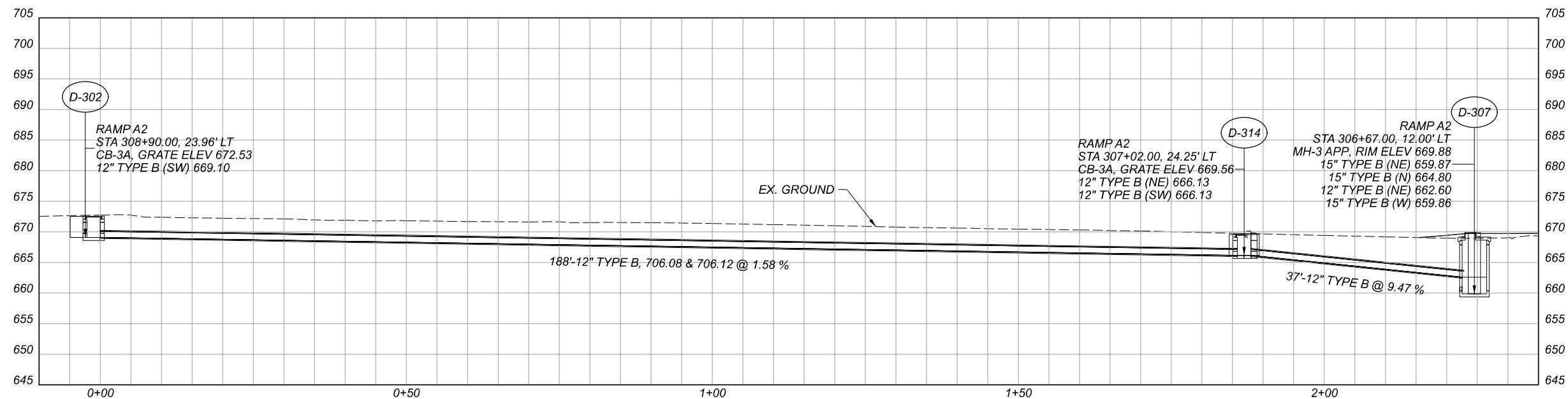
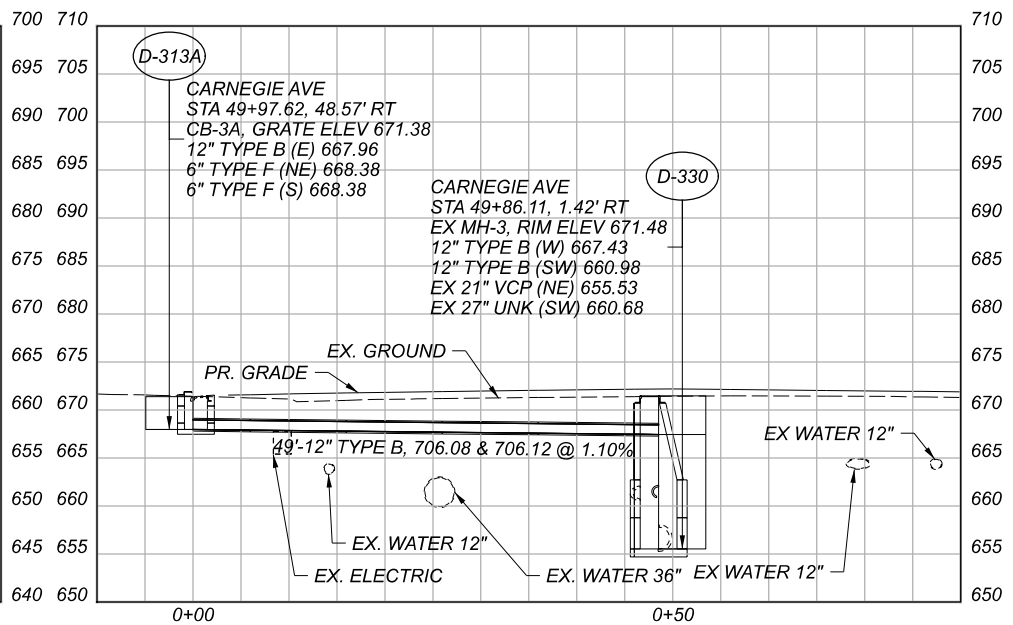
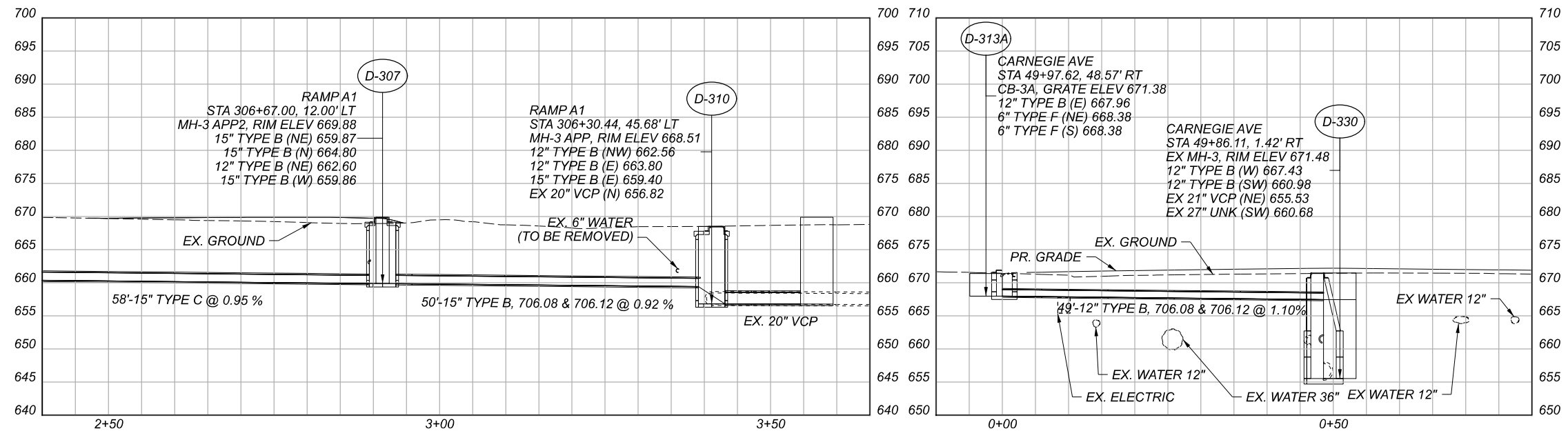
STORM SEWER PROFILES  
 I.R. 90 WB (FROM E. 22ND ST. BRIDGE TO EAST/NORTH PROJECT LIMITS)

DESIGN AGENCY	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	928
TOTAL	2339

MATCHLINE A-A  
SEE ABOVE



MATCHLINE A-A  
SEE BELOW



STORM SEWER PROFILES  
RAMP A1

DESIGN AGENCY

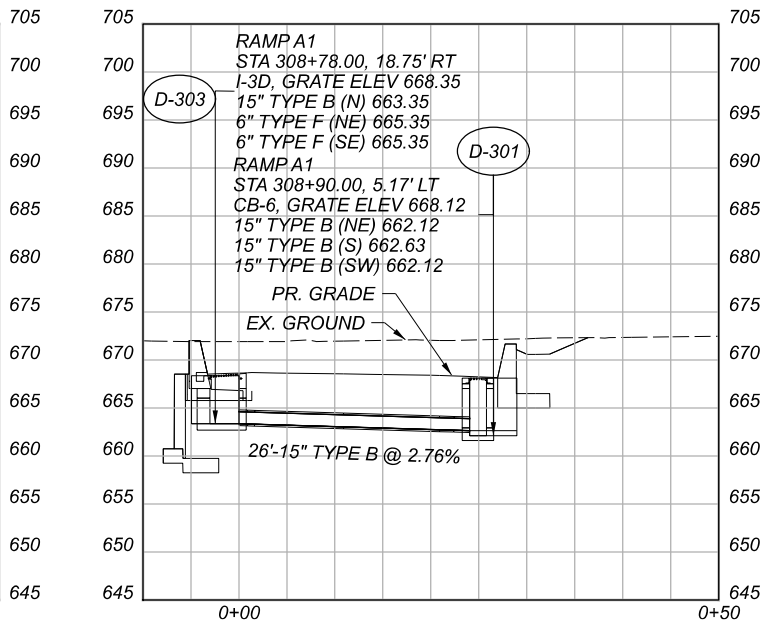
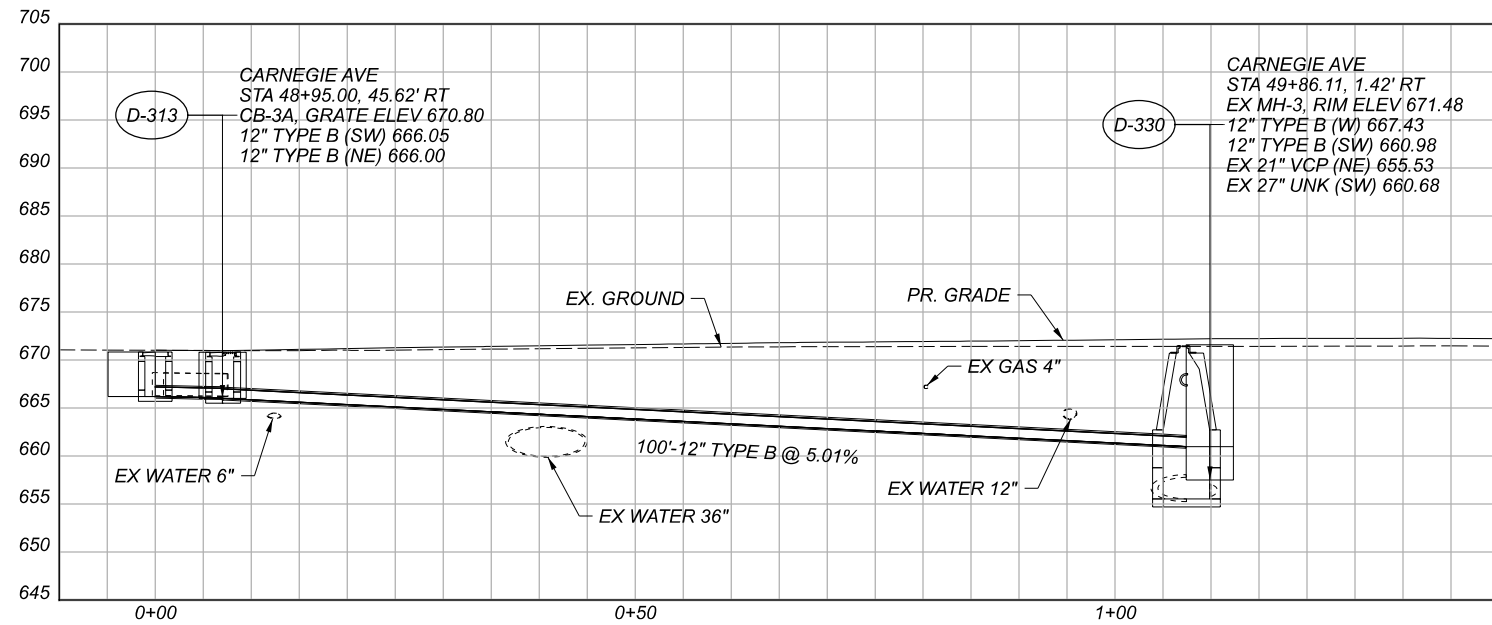
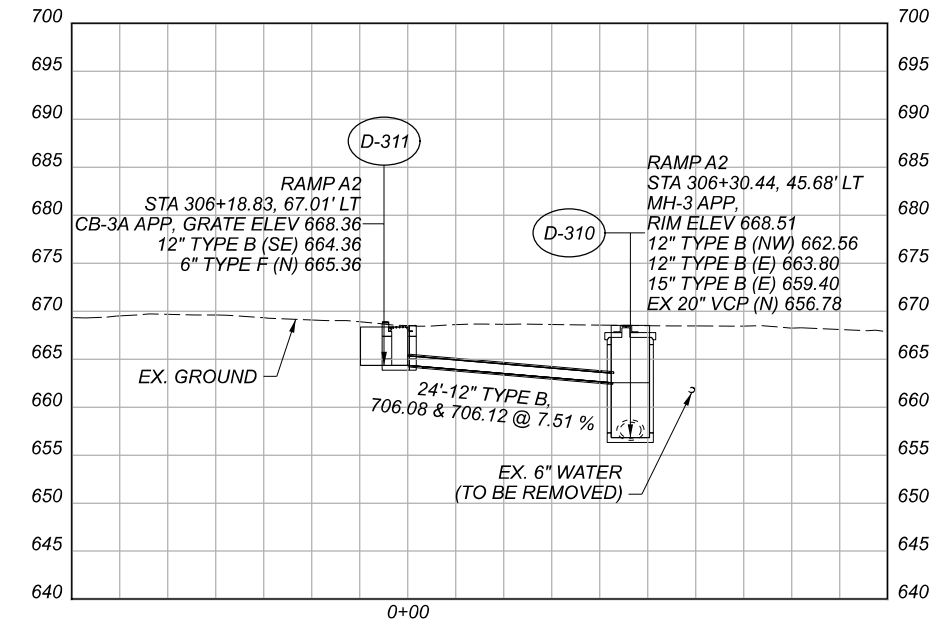
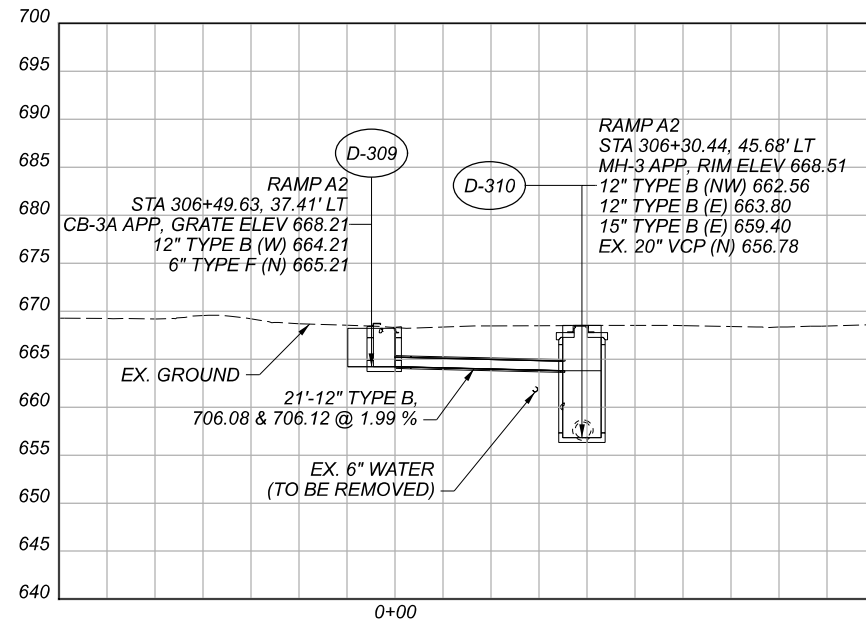
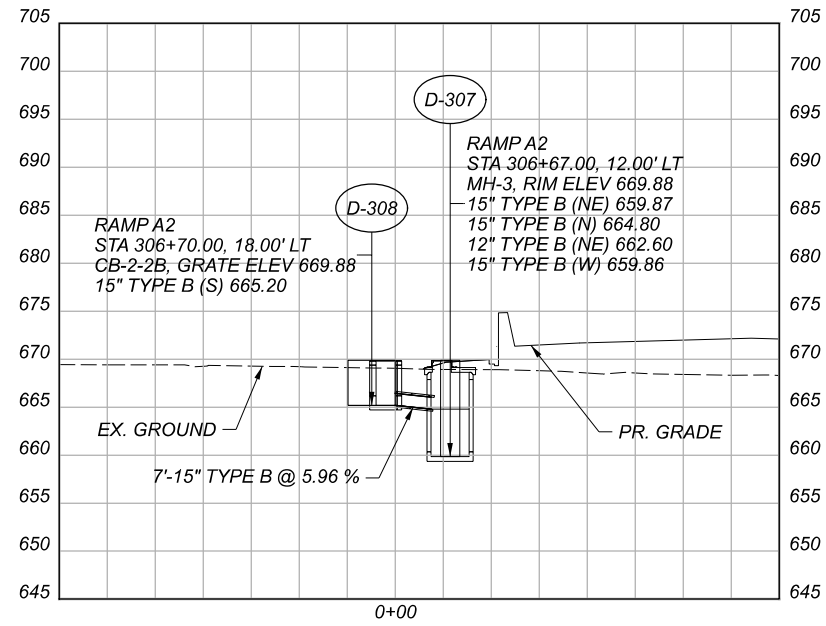
Michael Baker  
INTERNATIONAL

DESIGNER  
XXX

REVIEWER  
XXX MM-DD-YY

PROJECT ID  
82382

SHEET TOTAL  
929 2339



STORM SEWER PROFILES  
RAMP A2

DESIGN AGENCY

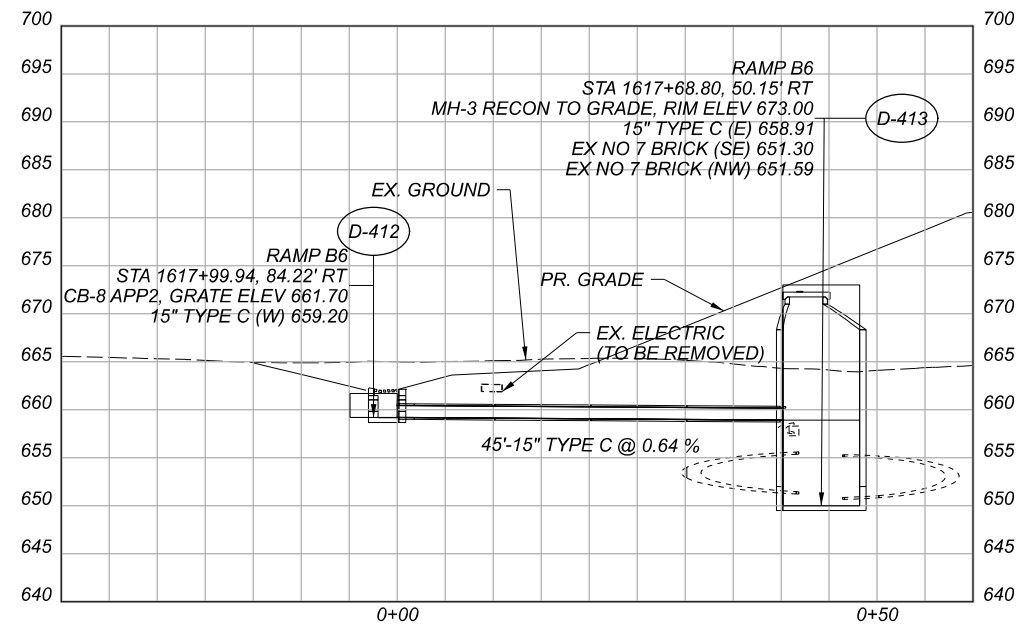
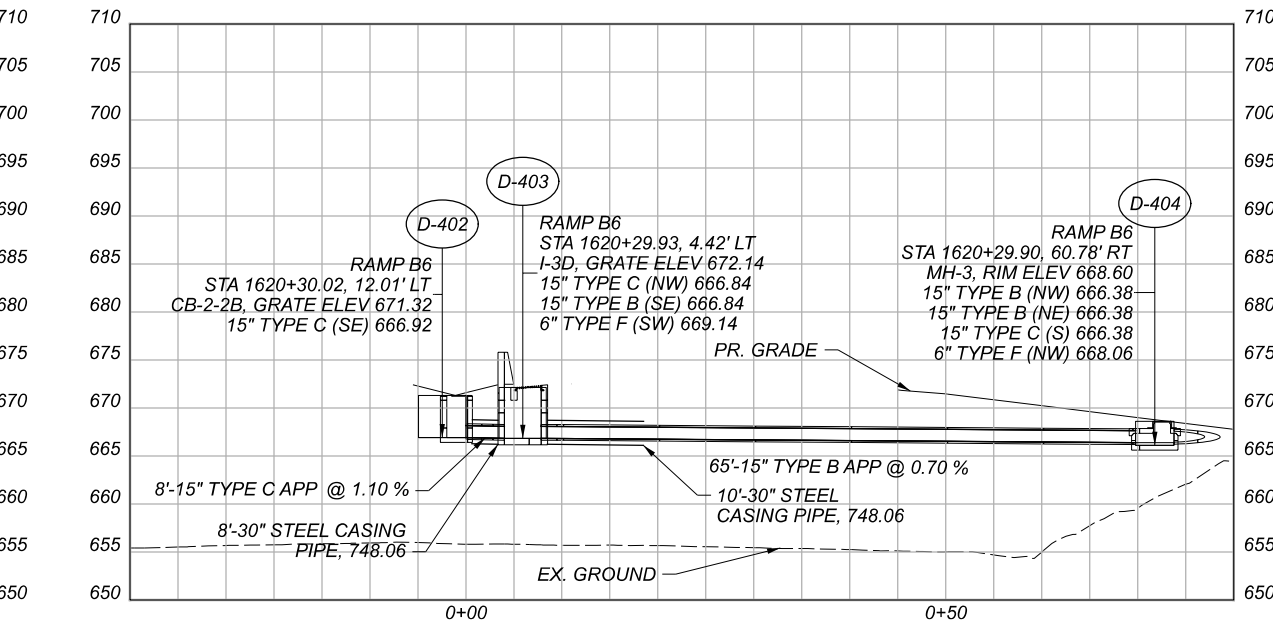
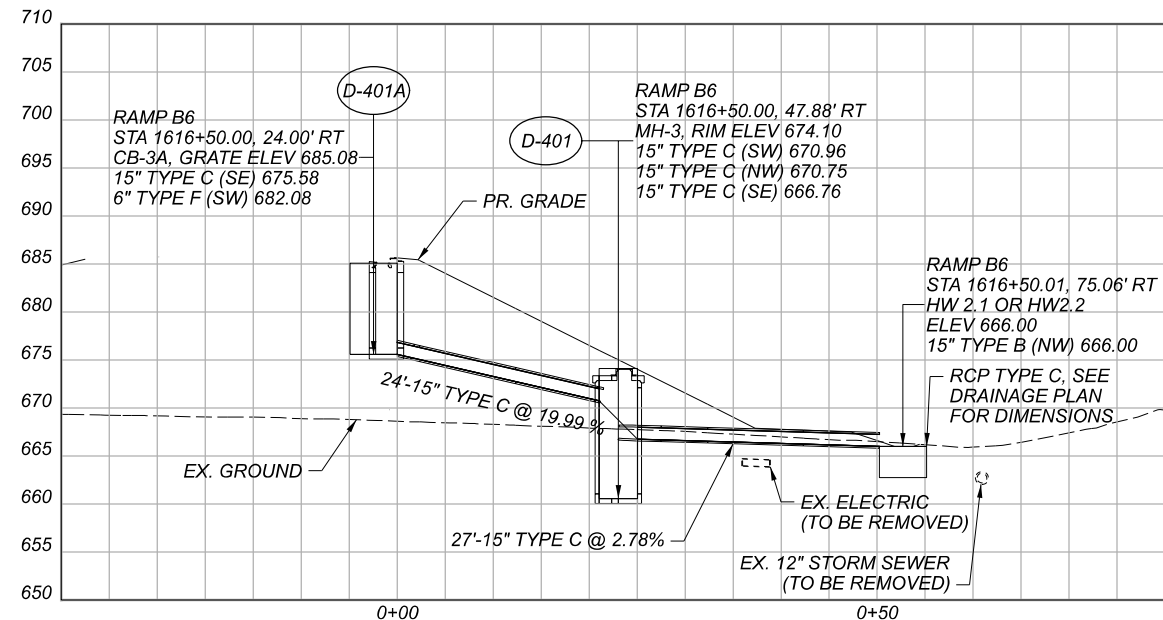
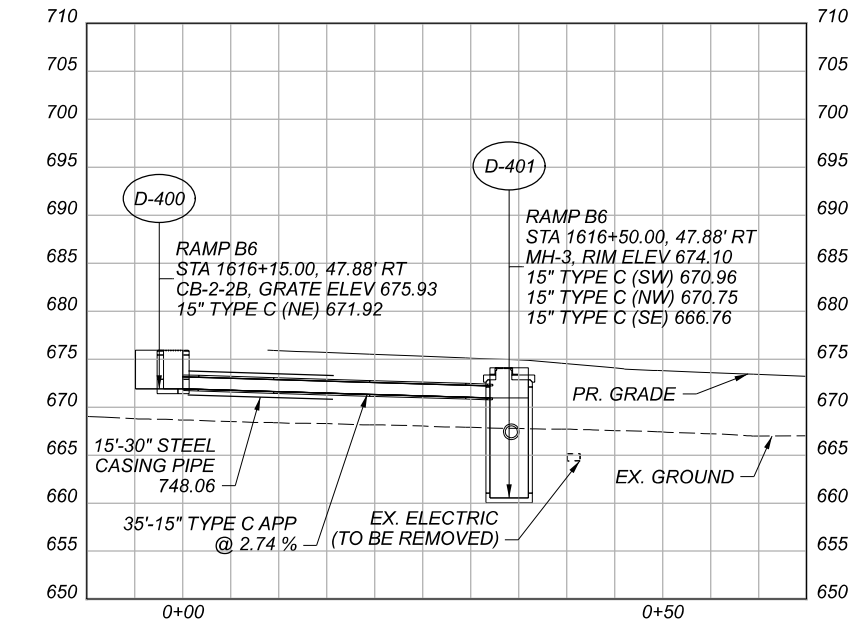
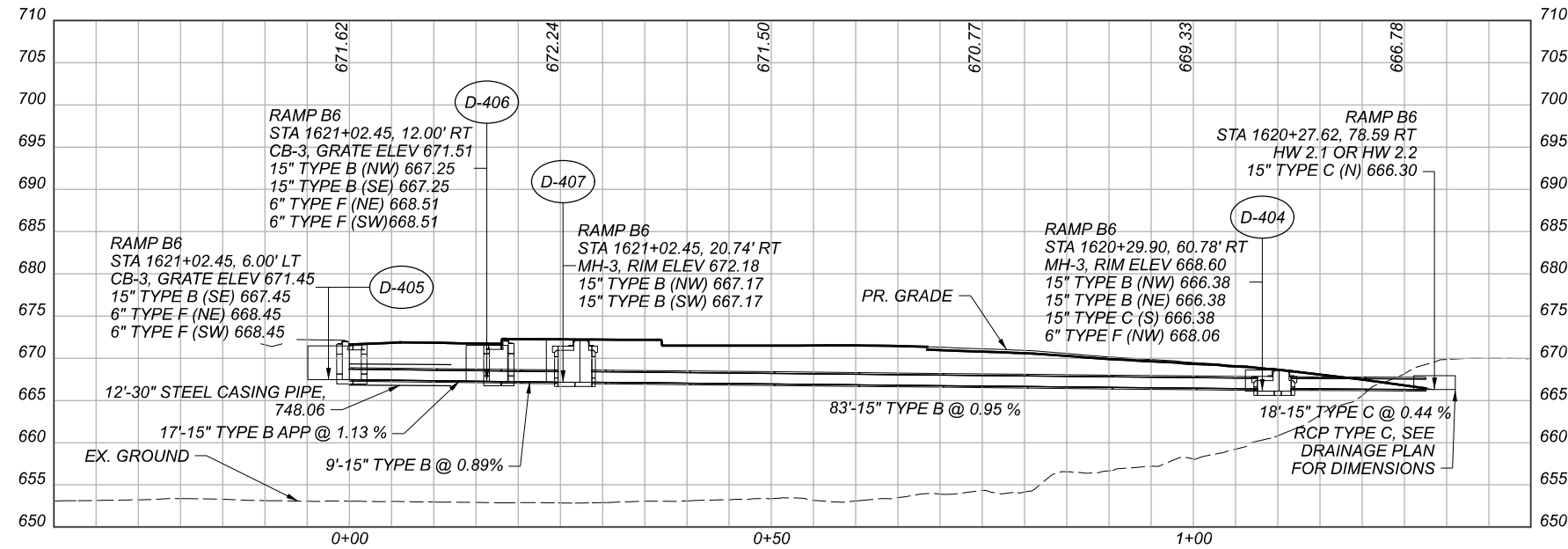
Michael Baker  
INTERNATIONAL

DESIGNER  
XXX

REVIEWER  
XXX MM-DD-YY

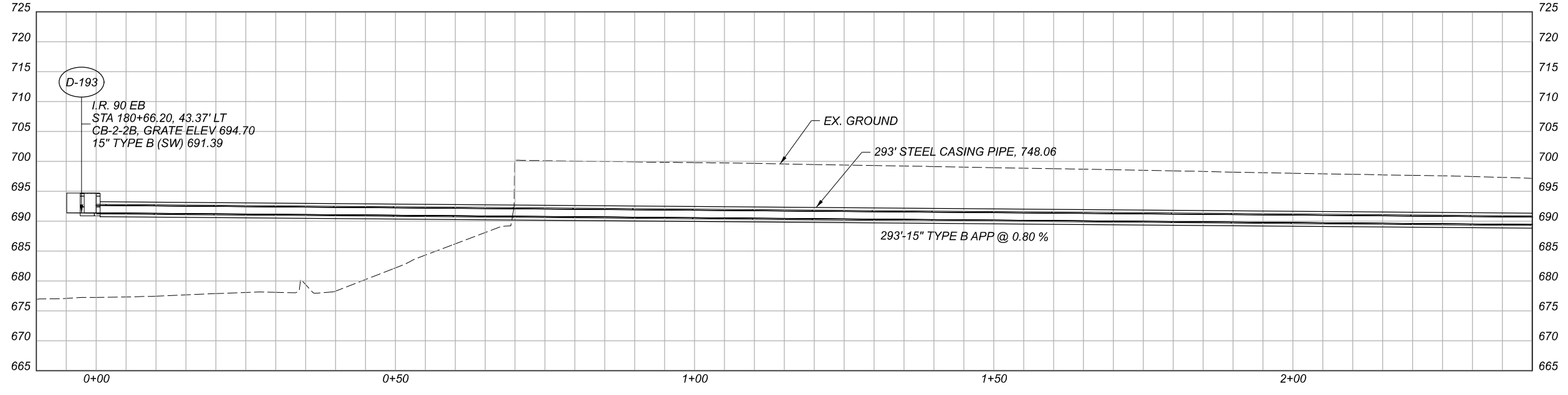
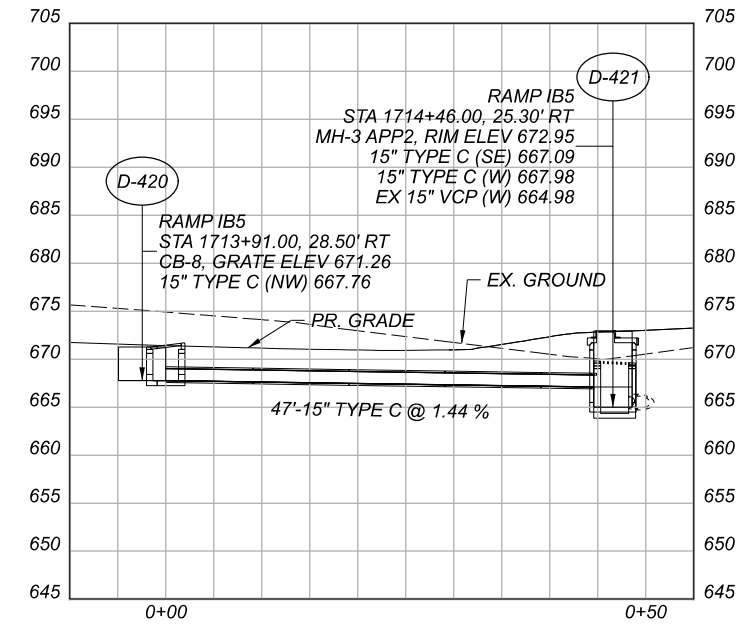
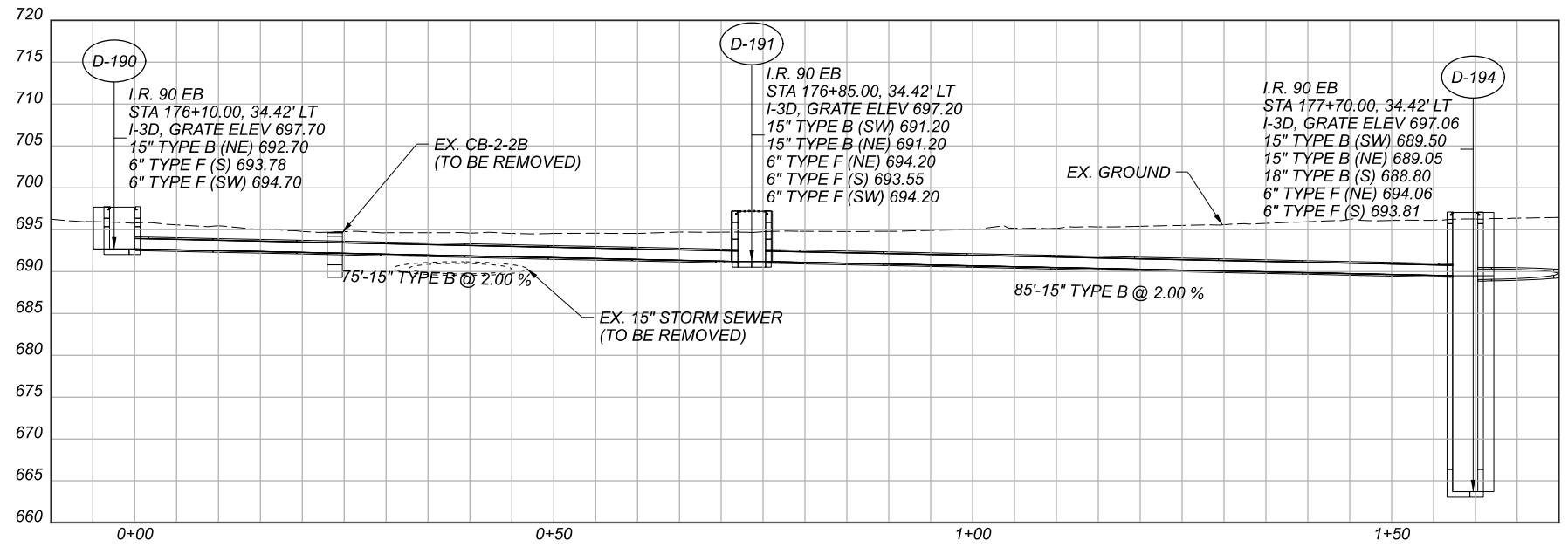
PROJECT ID  
82382

SHEET TOTAL  
930 2339

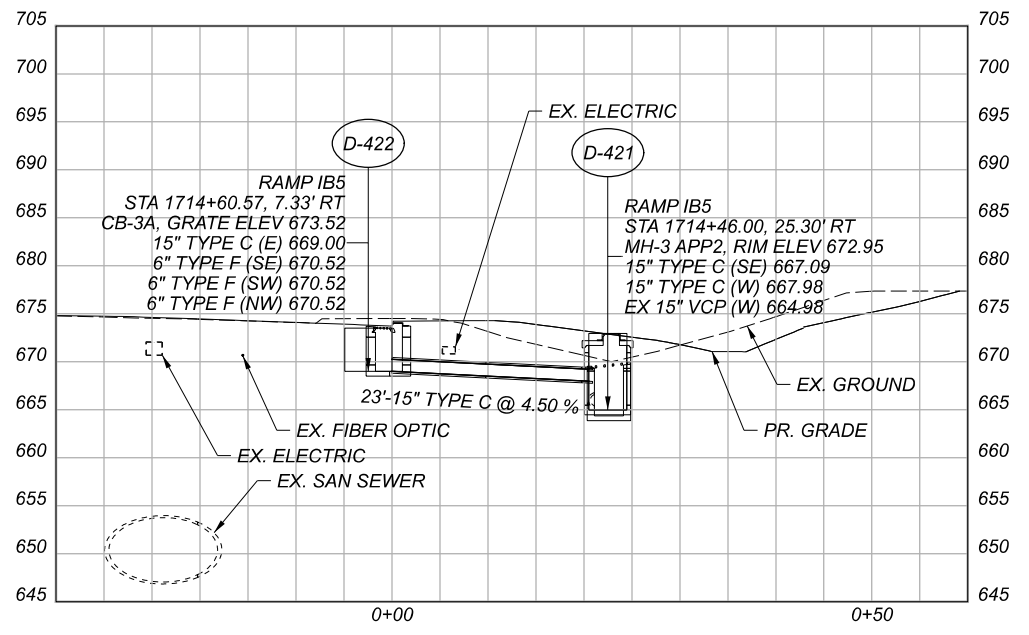
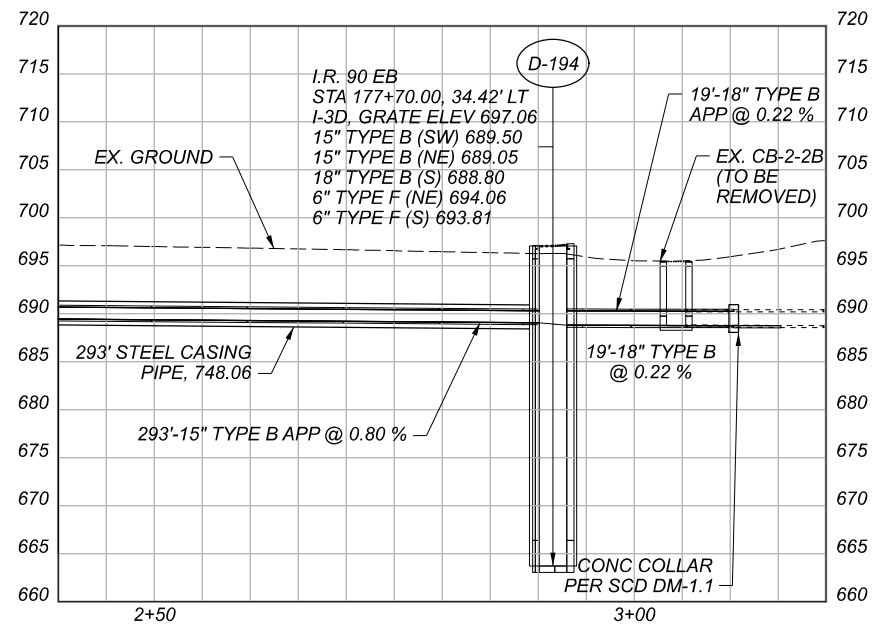


STORM SEWER PROFILES  
 RAMP B6 (NEAR E. 22ND ST.)

DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
REVIEWER	XXX
PROJECT ID	82382
SHEET	931
TOTAL	2339



MATCHLINE A-A  
SEE BELOW

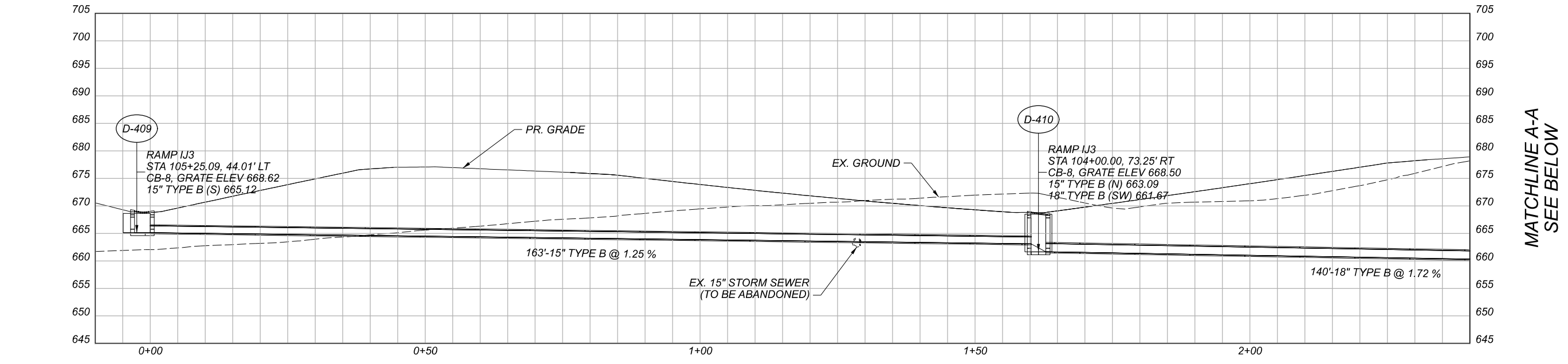


MATCHLINE A-A  
SEE ABOVE

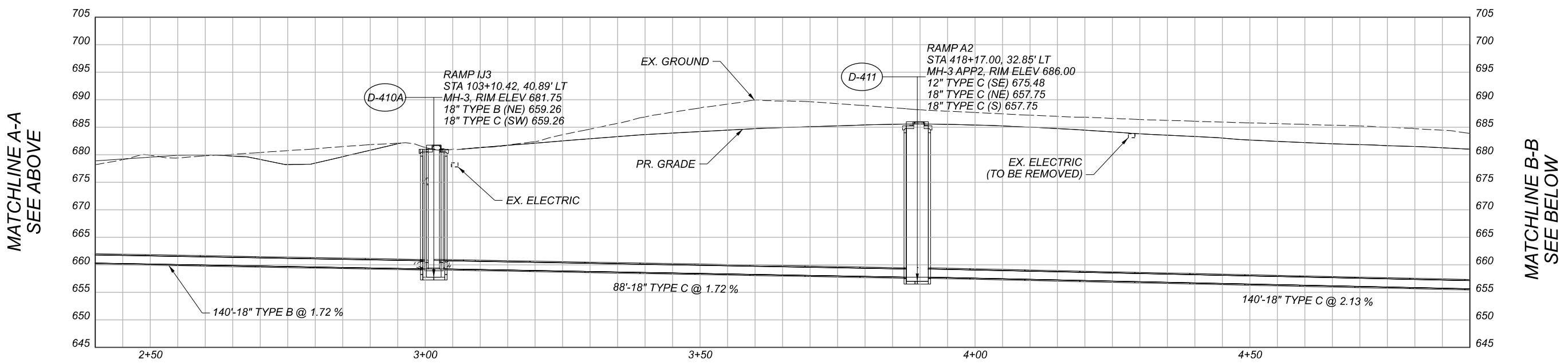
STORM SEWER PROFILES  
IR 90 EB & RAMP IB5 & RAMP IJ3

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	932
TOTAL	2339

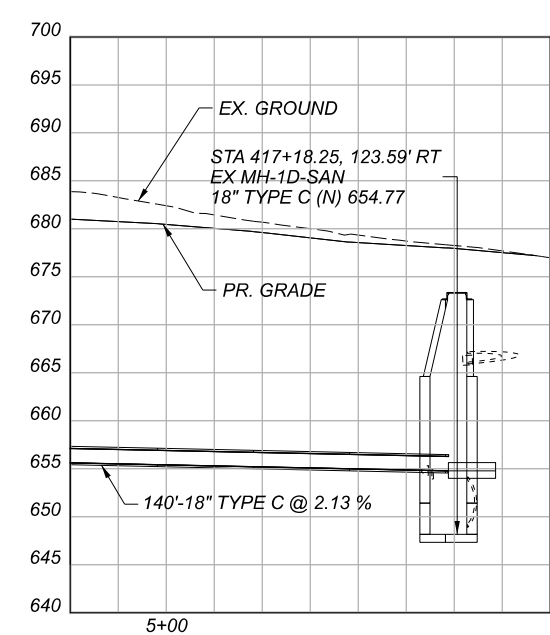




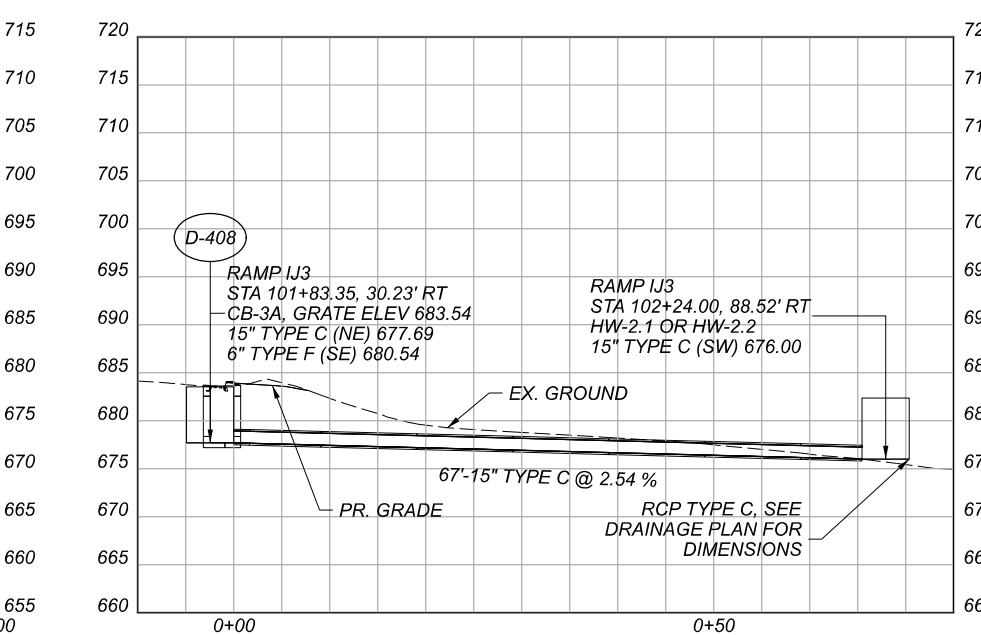
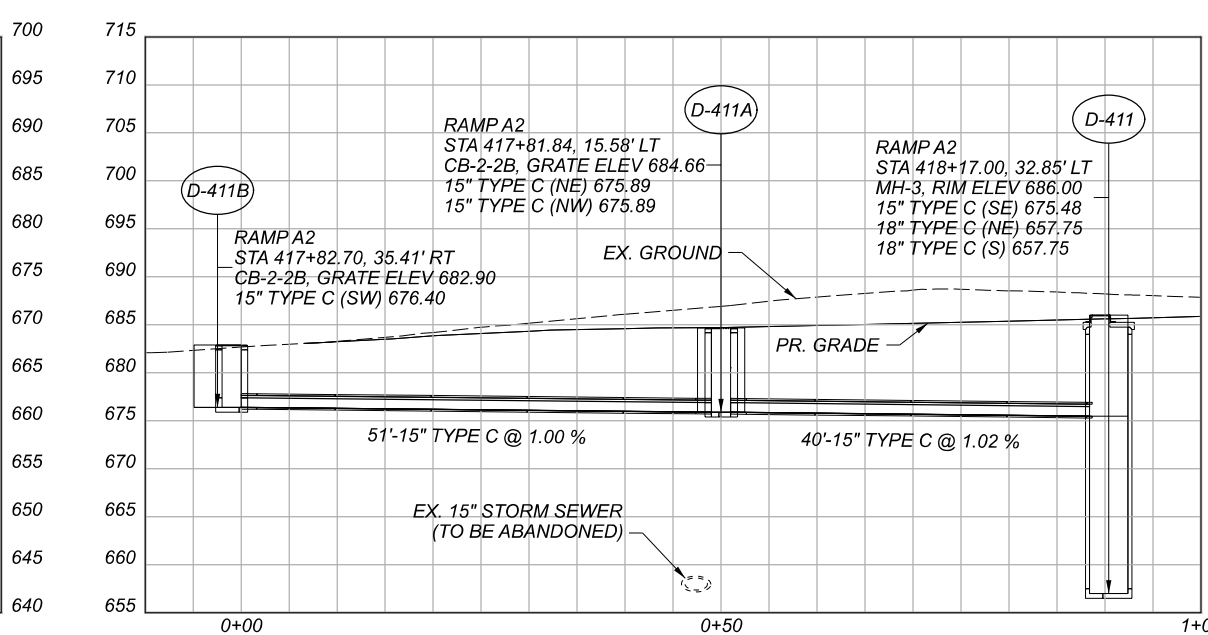
MATCHLINE A-A  
SEE BELOW



MATCHLINE B-B  
SEE BELOW

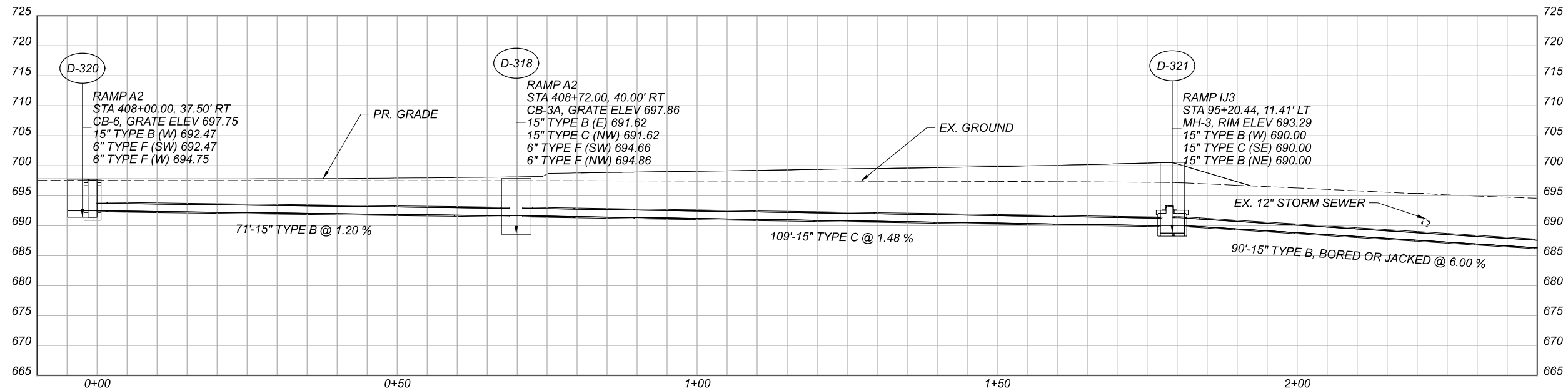


MATCHLINE B-B  
SEE ABOVE

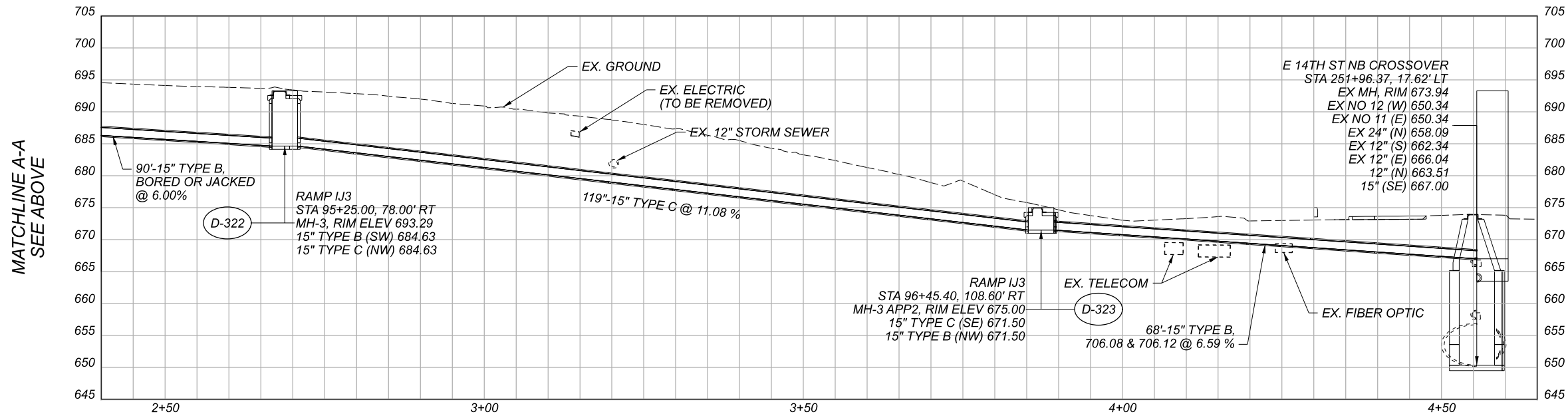


STORM SEWER PROFILES  
RAMP IJ3

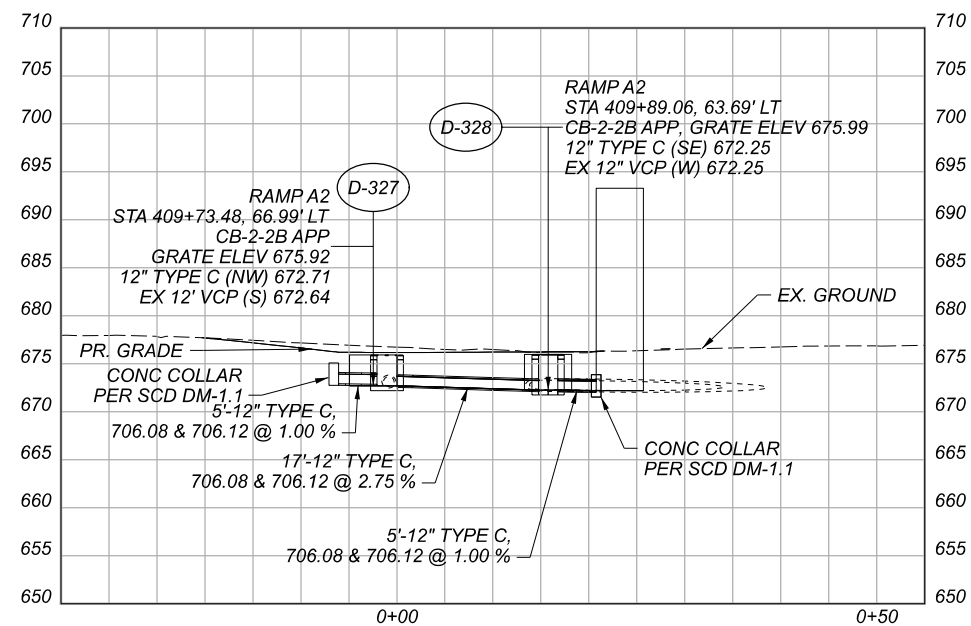
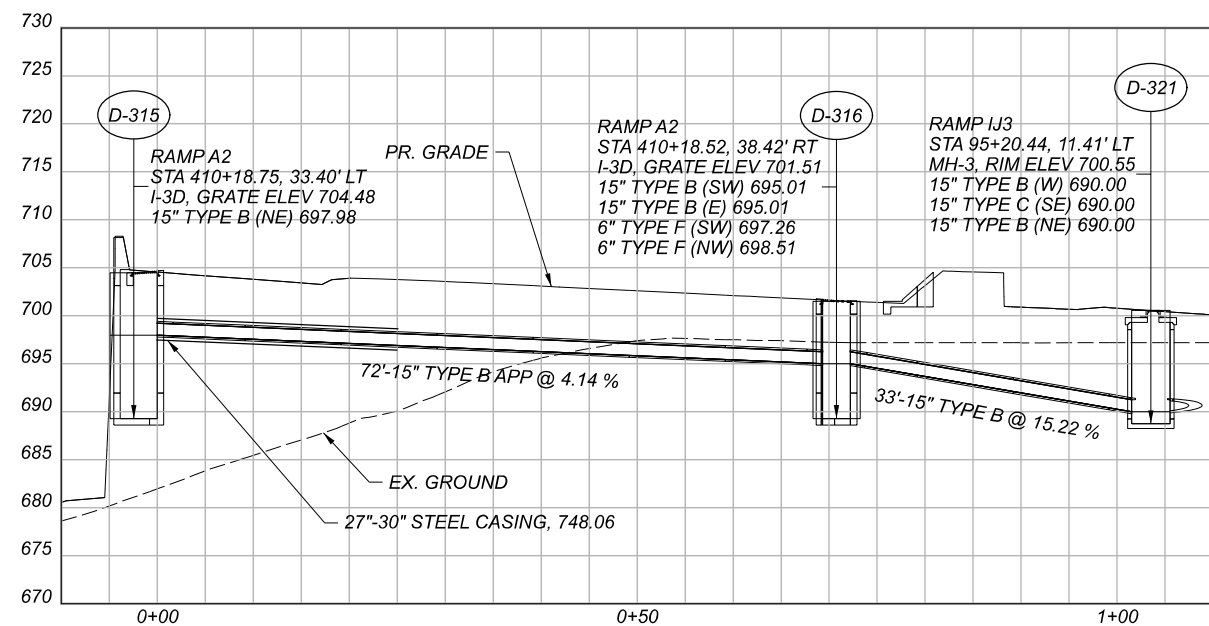
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	---
REVIEWER	---
PROJECT ID	82382
SHEET	933
TOTAL	2339



MATCHLINE A-A  
SEE BELOW

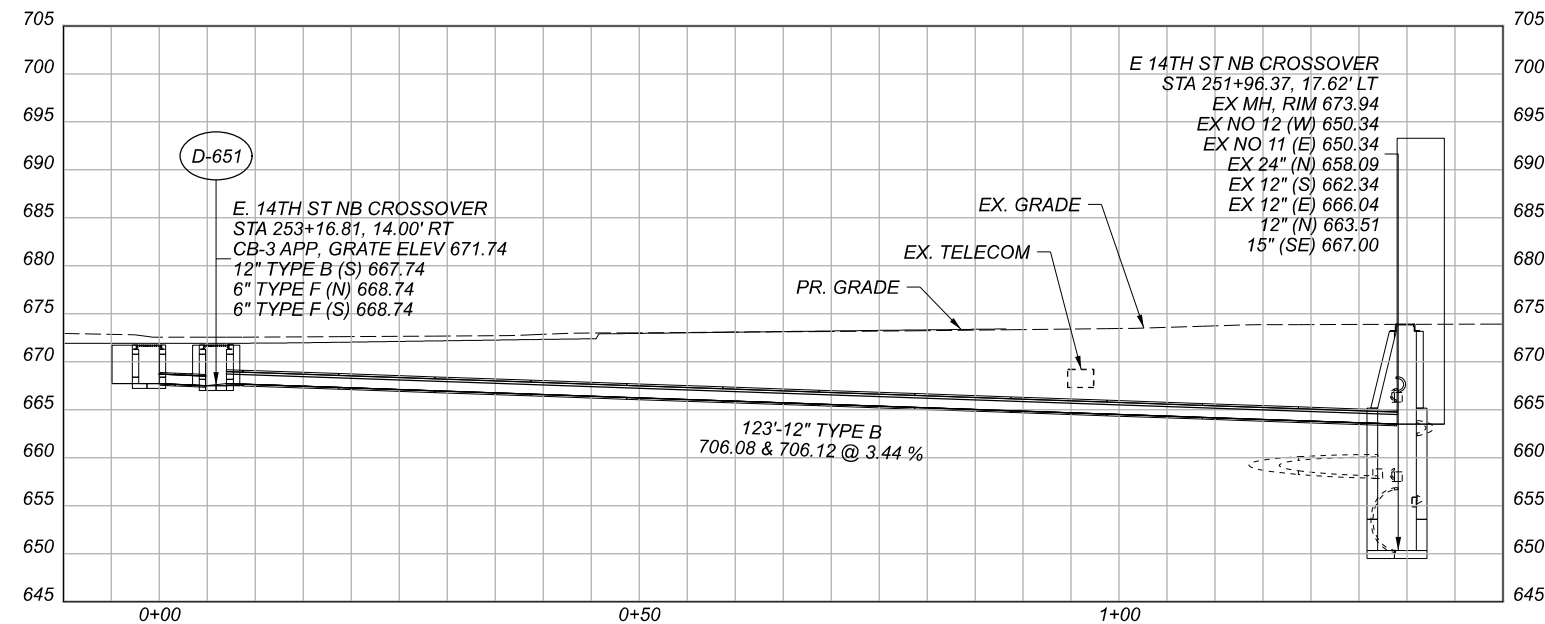
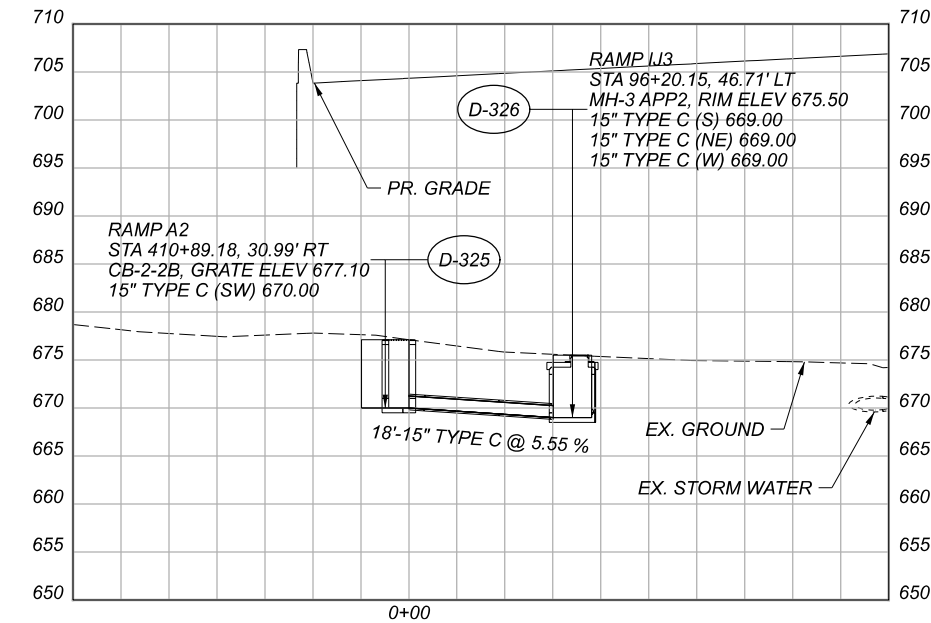
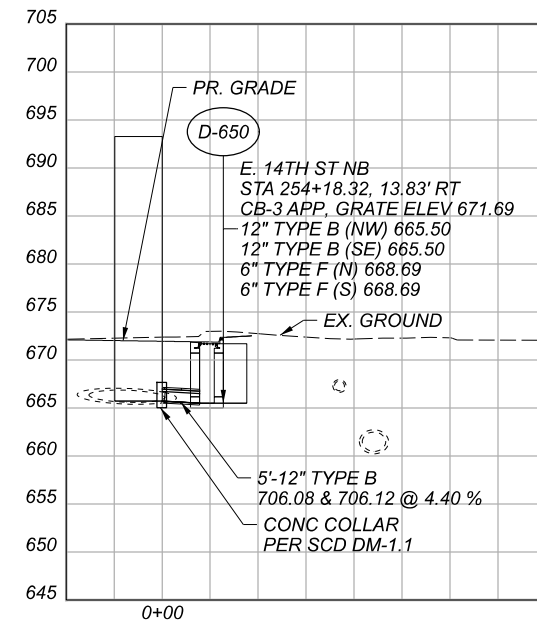
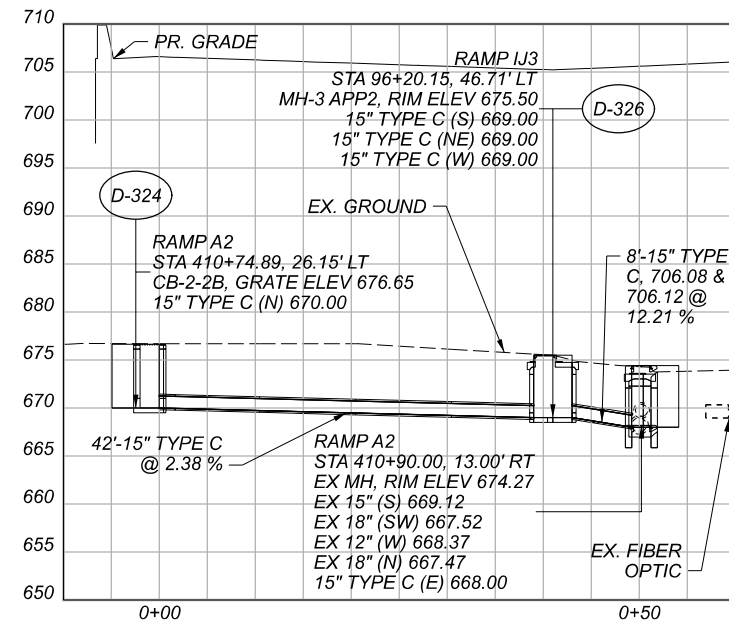
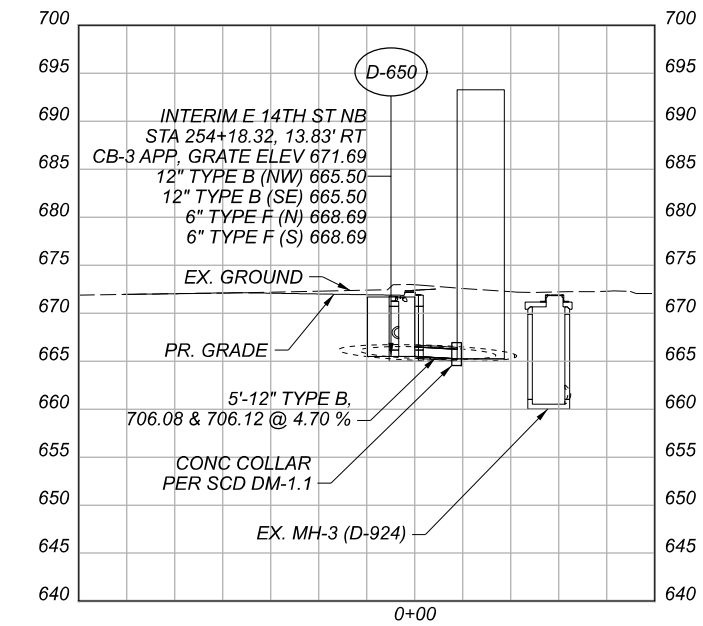
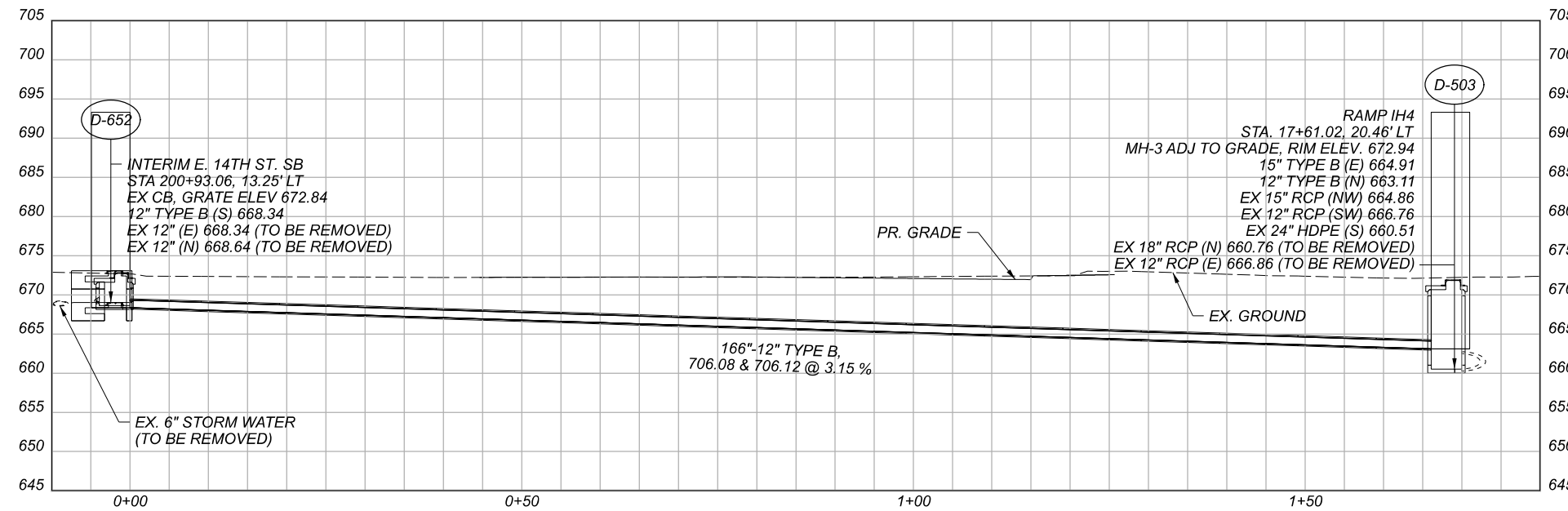


MATCHLINE A-A  
SEE ABOVE



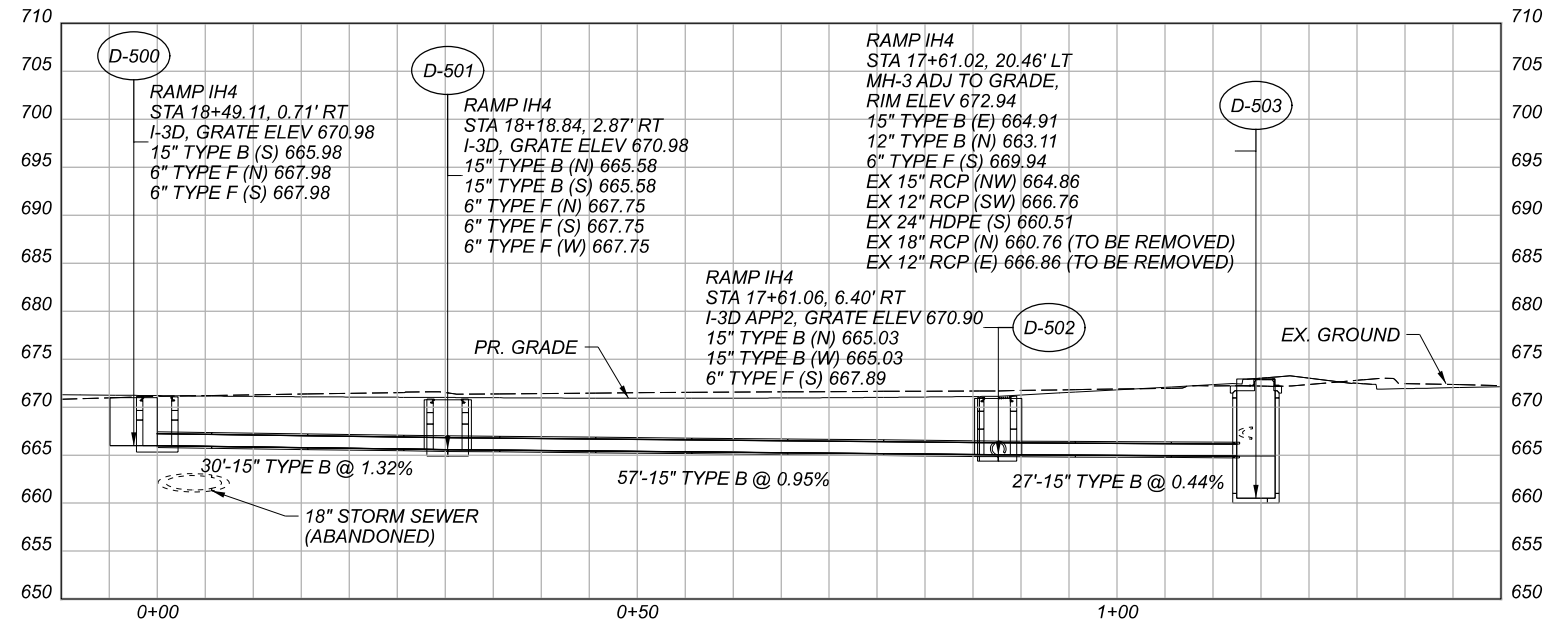
STORM SEWER PROFILES  
RAMP A2/E. 14TH ST NB CROSSOVER

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET TOTAL	934 2339



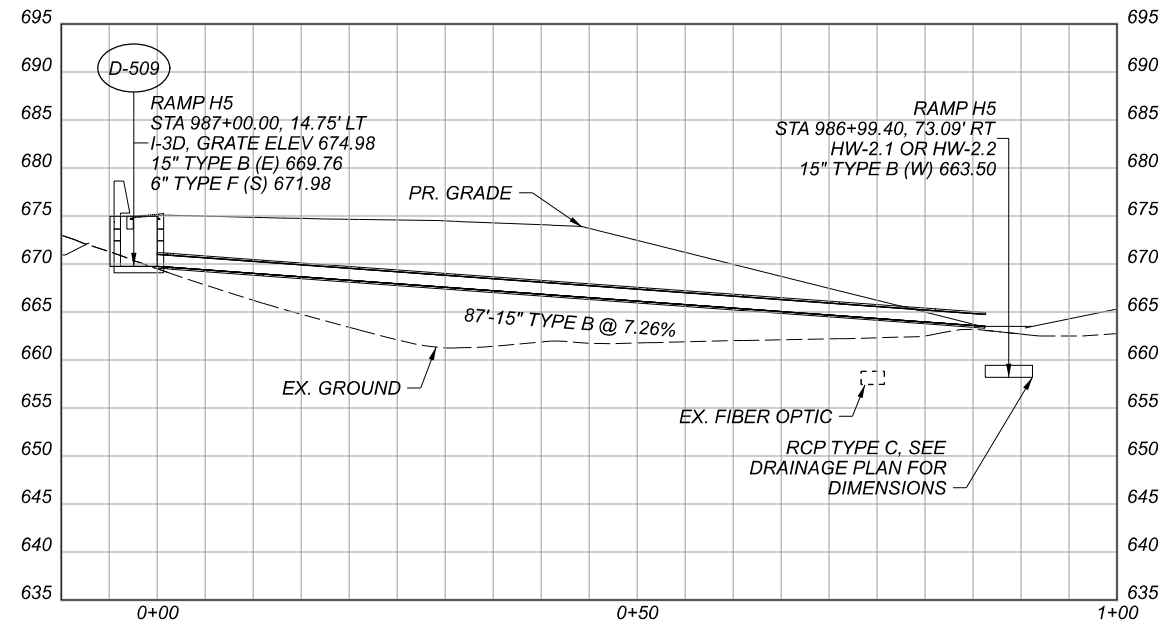
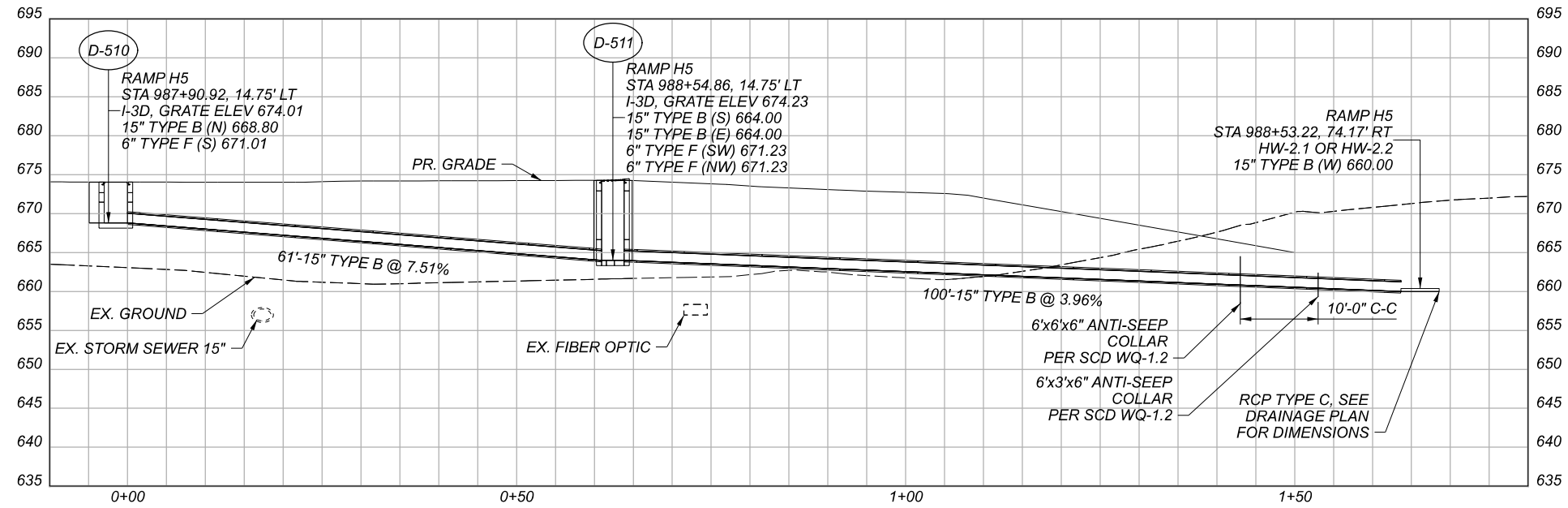
STORM SEWER PROFILES  
 RAMP A2/E. 14TH ST NB CROSSOVER

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	TOTAL
935	2339



STORM SEWER PROFILES  
 RAMP IH4

DESIGN AGENCY	
<b>Michael Baker</b> INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	TOTAL
936	2339



STORM SEWER PROFILES  
 RAMP H5

DESIGN AGENCY

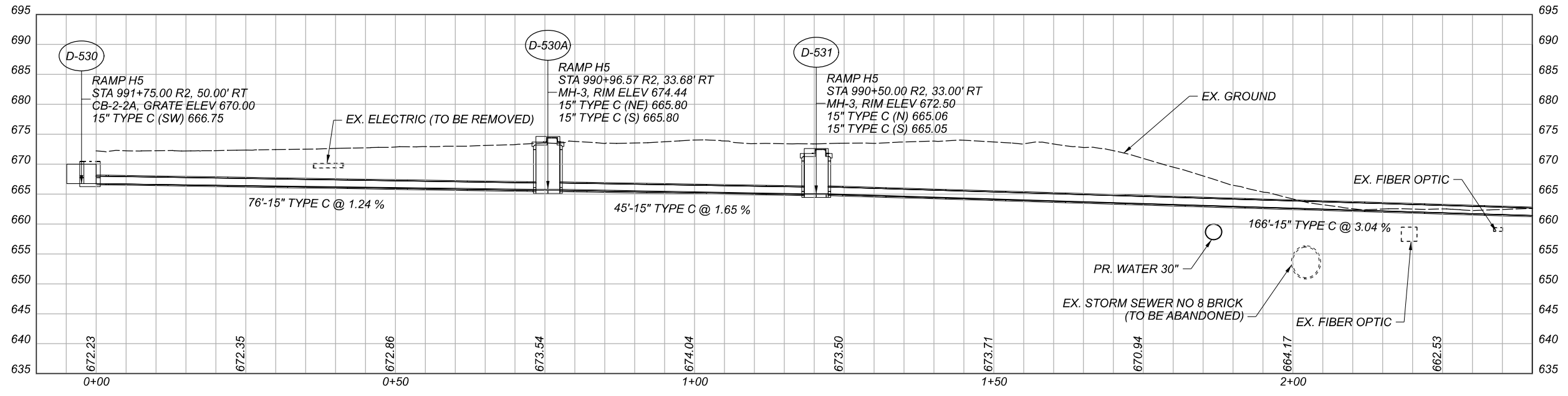
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

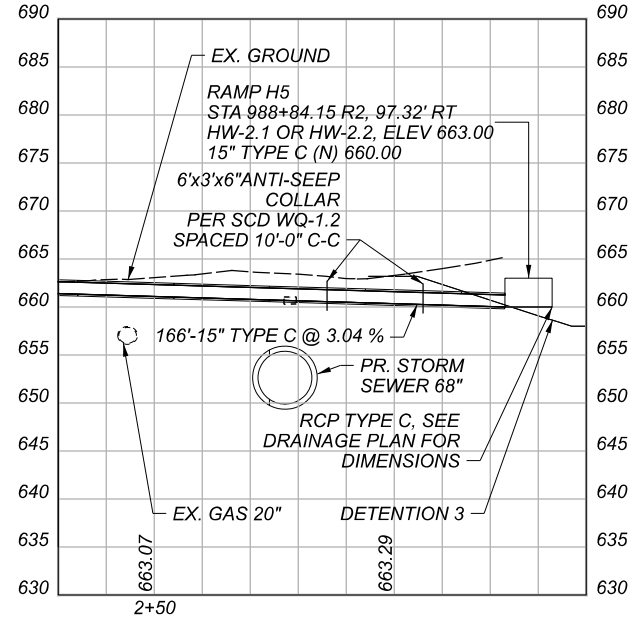
PROJECT ID  
 82382

SHEET	TOTAL
937	2339



MATCHLINE A-A  
SEE BELOW

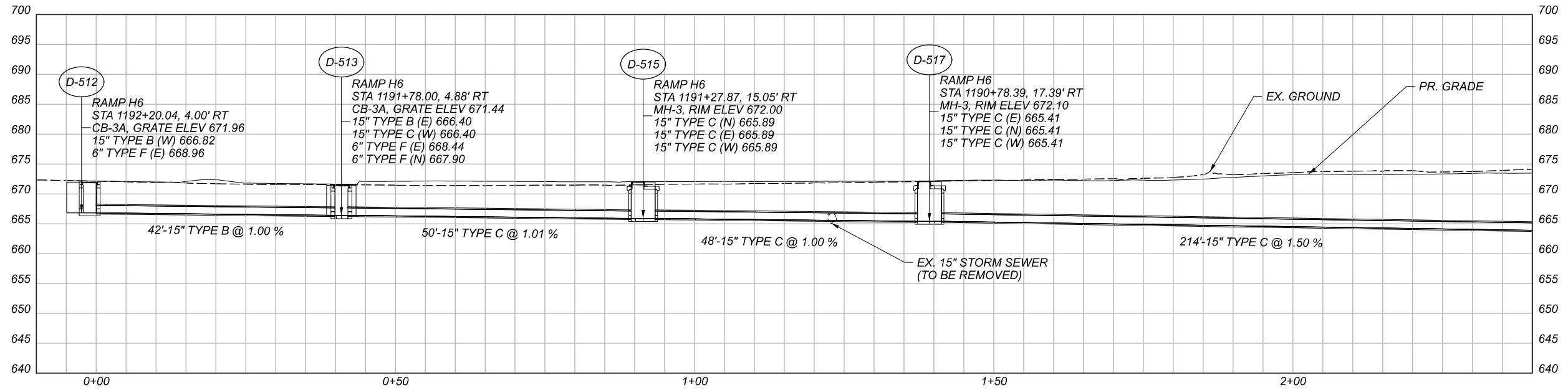
MATCHLINE A-A  
SEE ABOVE



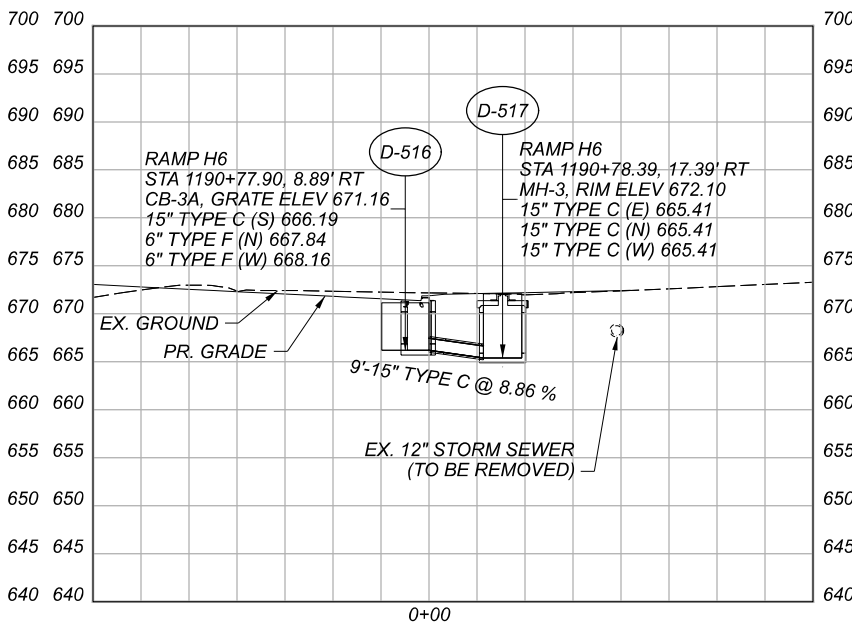
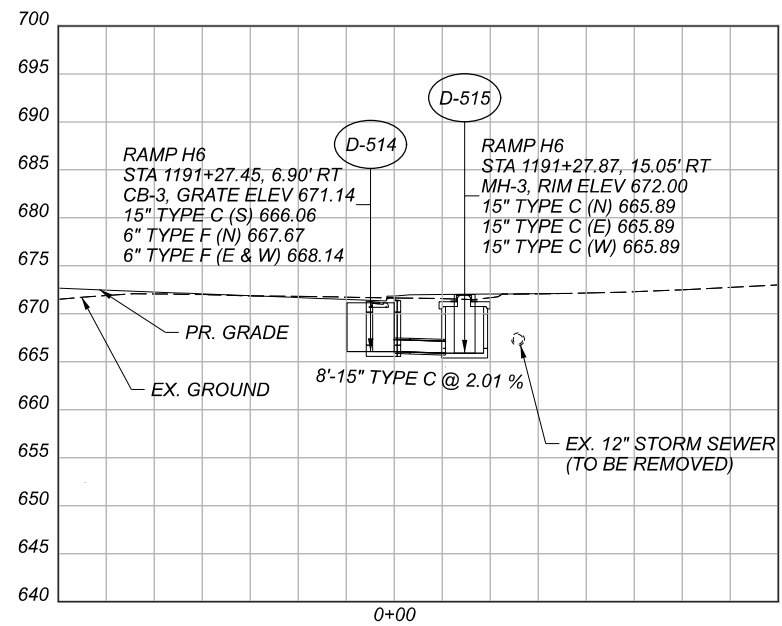
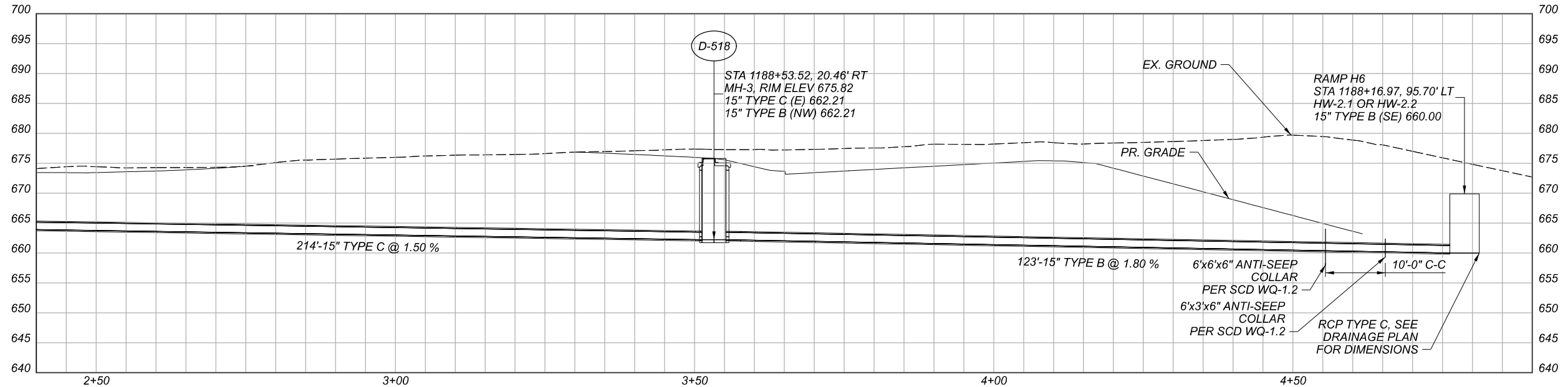
STORM SEWER PROFILES  
RAMP H5

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	938
TOTAL	2339

MATCHLINE A-A  
SEE ABOVE



MATCHLINE A-A  
SEE BELOW



STORM SEWER PROFILES  
RAMP H6

DESIGN AGENCY

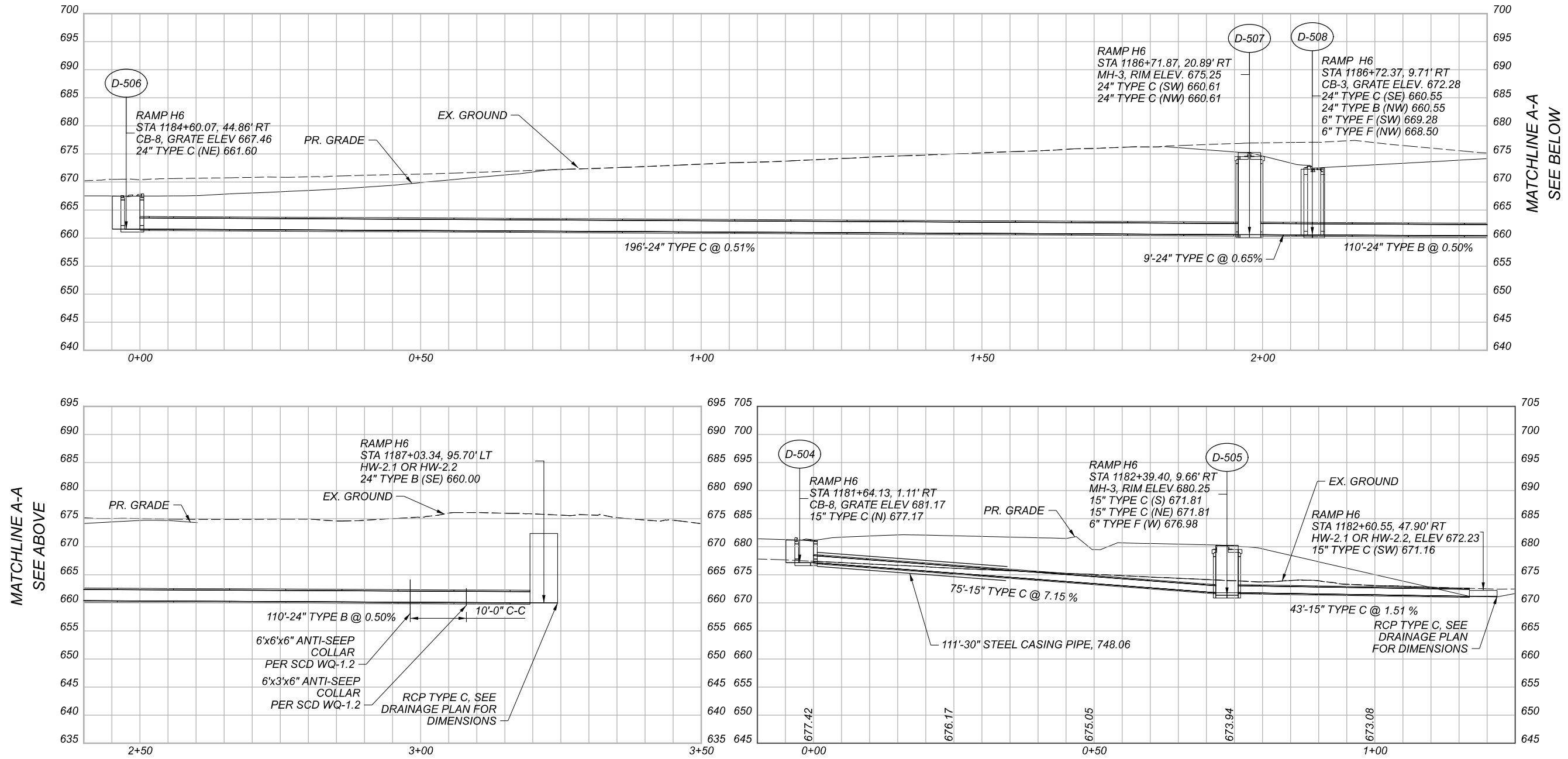
Michael Baker  
INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
82382

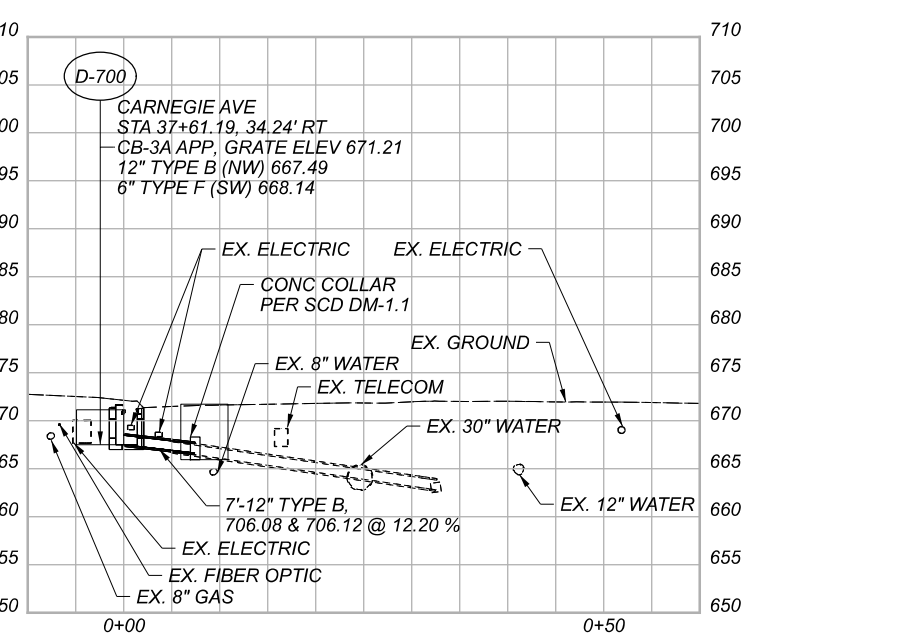
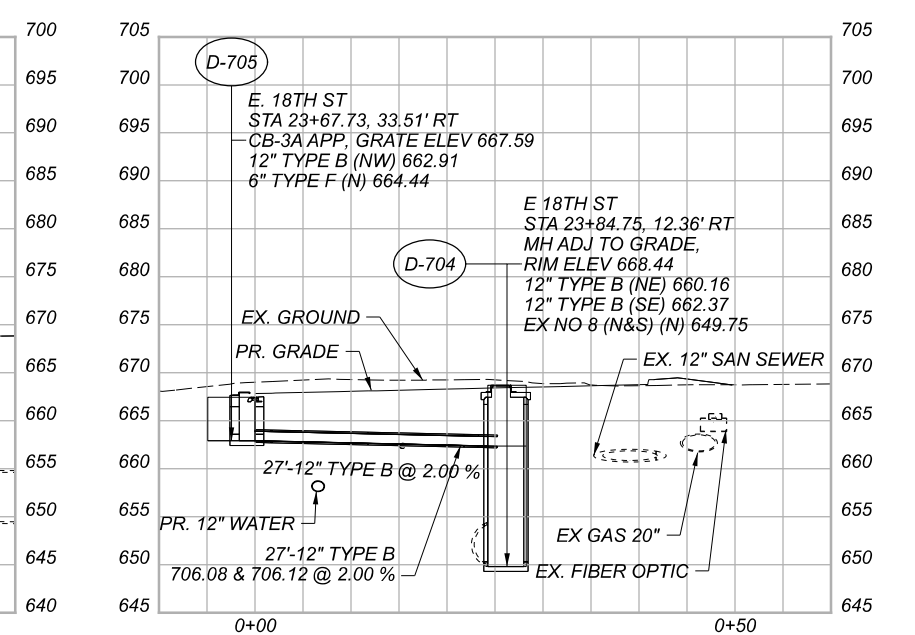
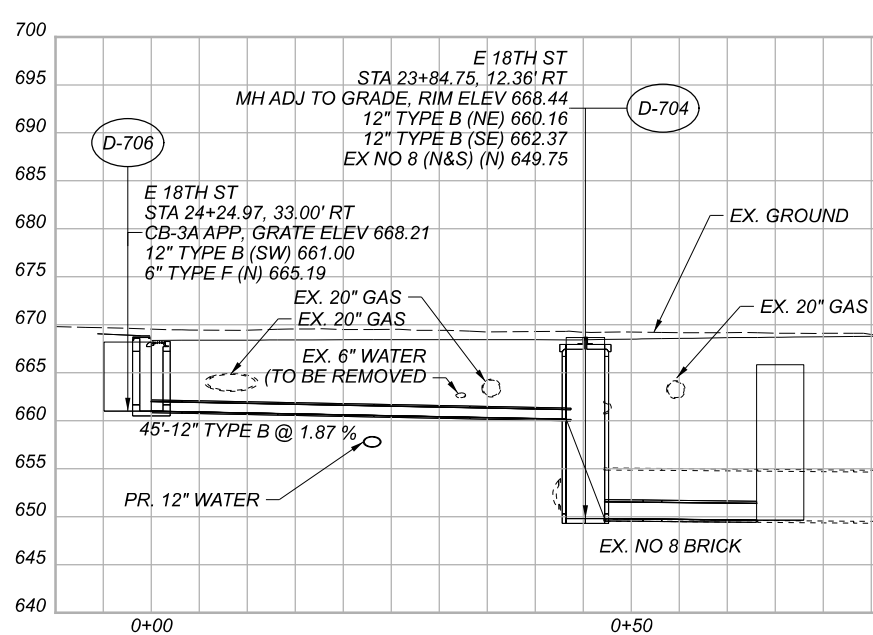
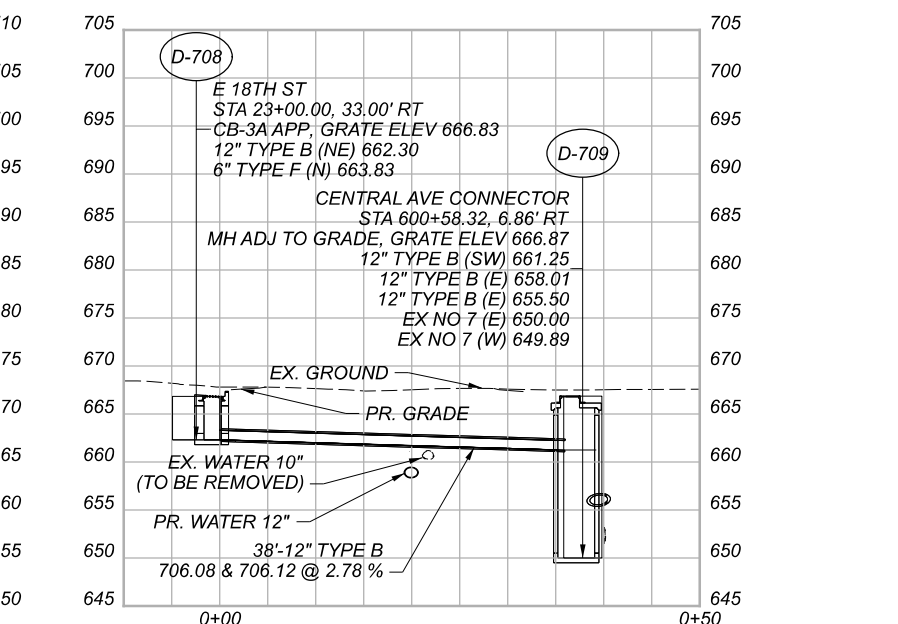
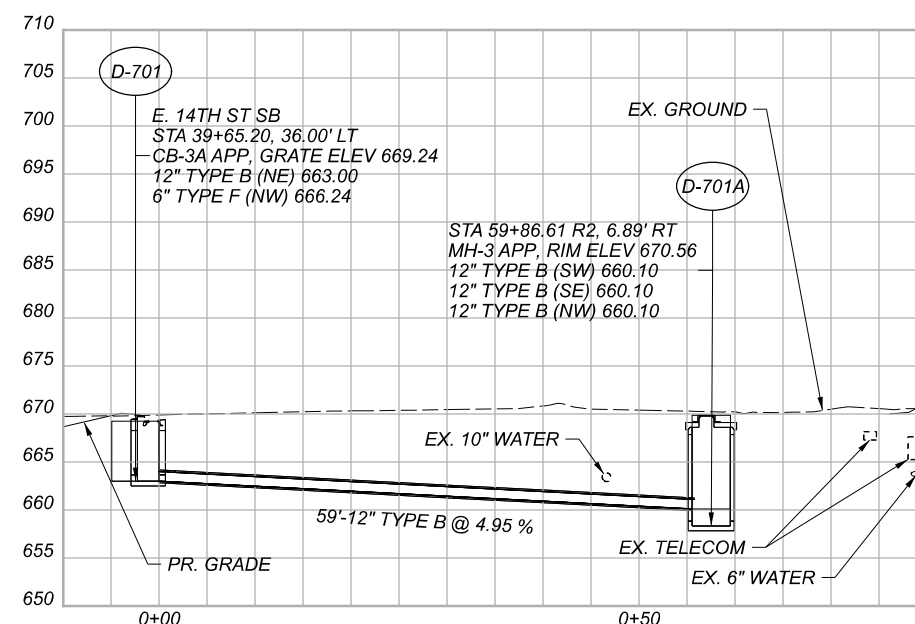
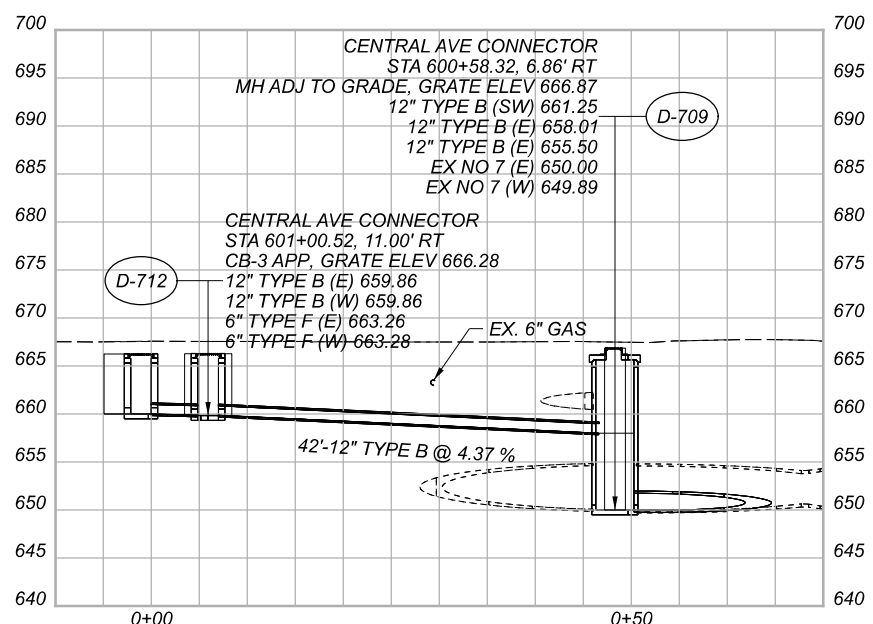
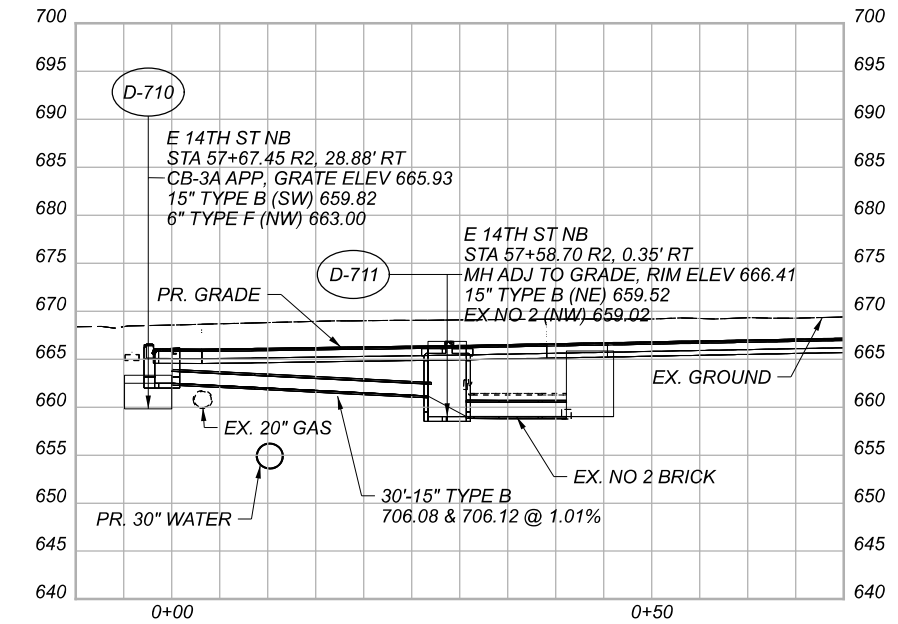
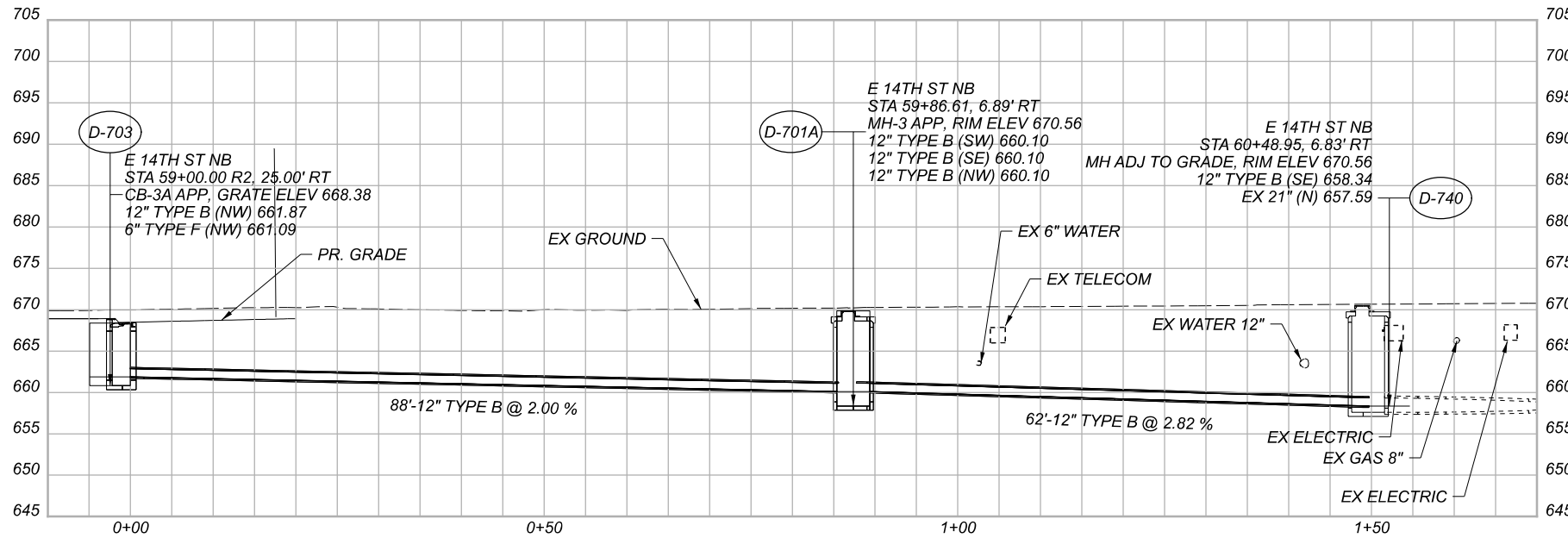
SHEET TOTAL  
939 2339



STORM SEWER PROFILES  
RAMP H6

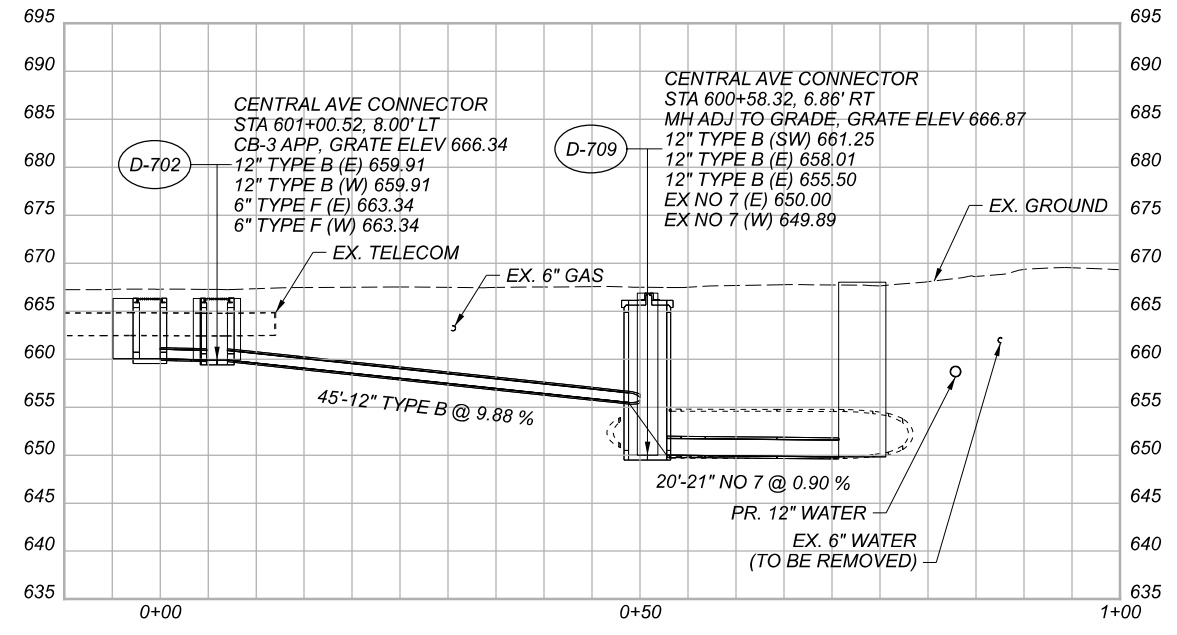
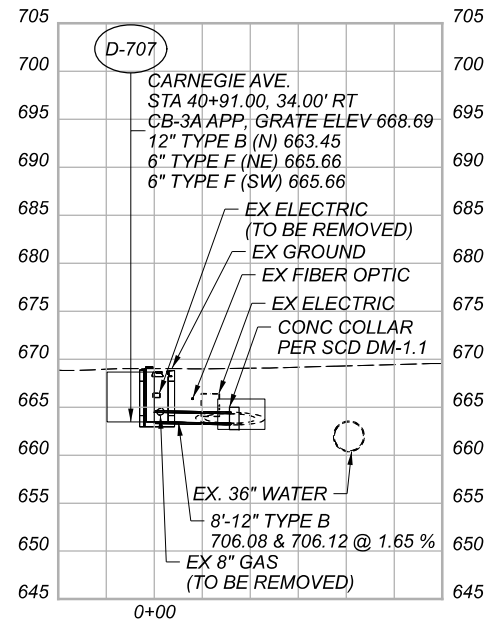
DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	940
TOTAL	2339





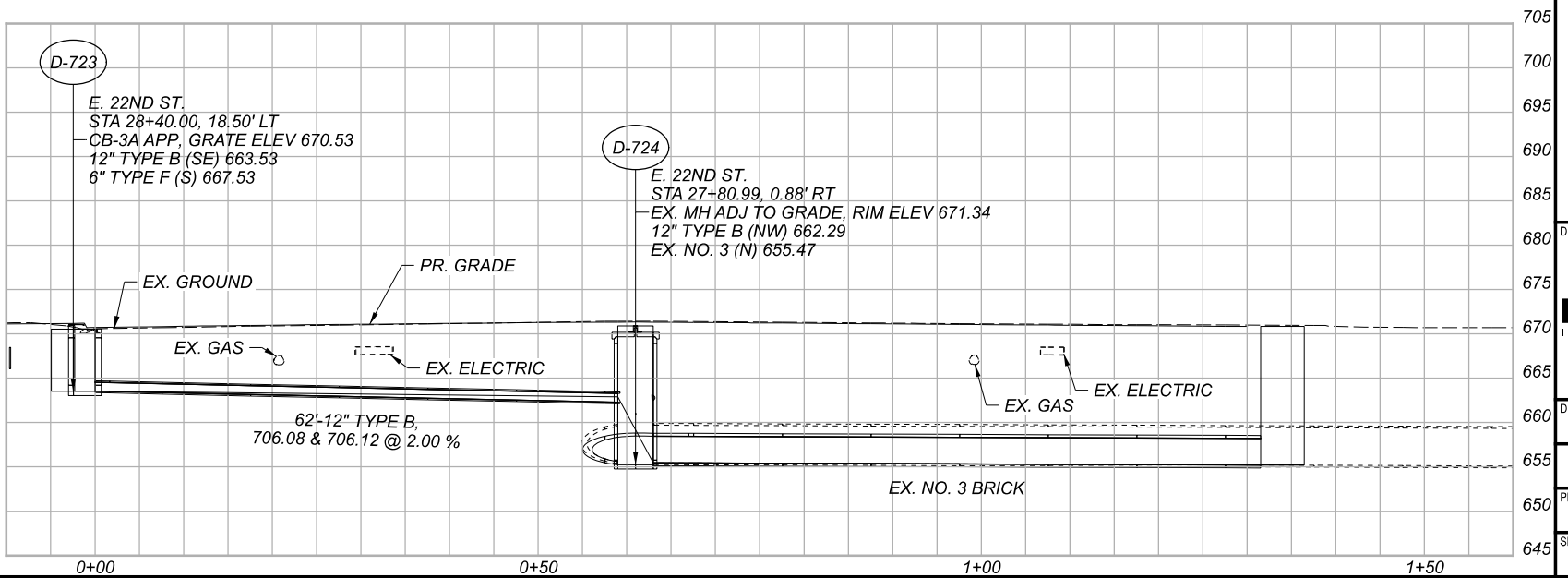
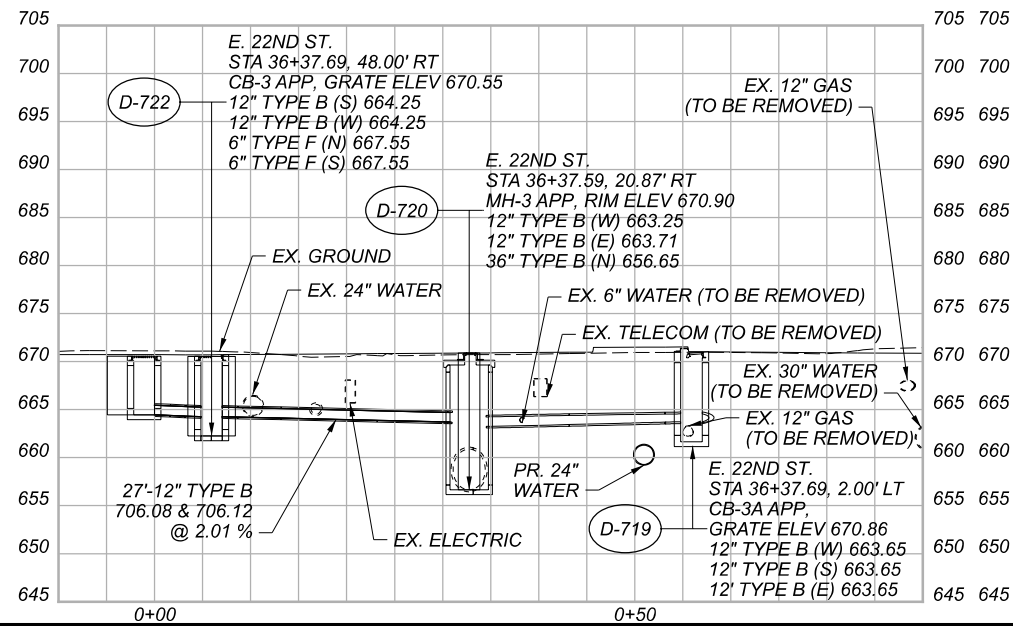
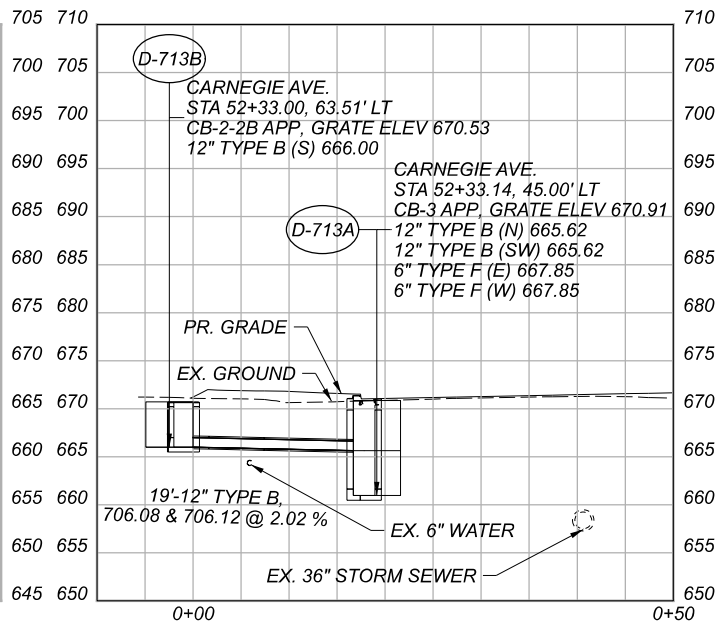
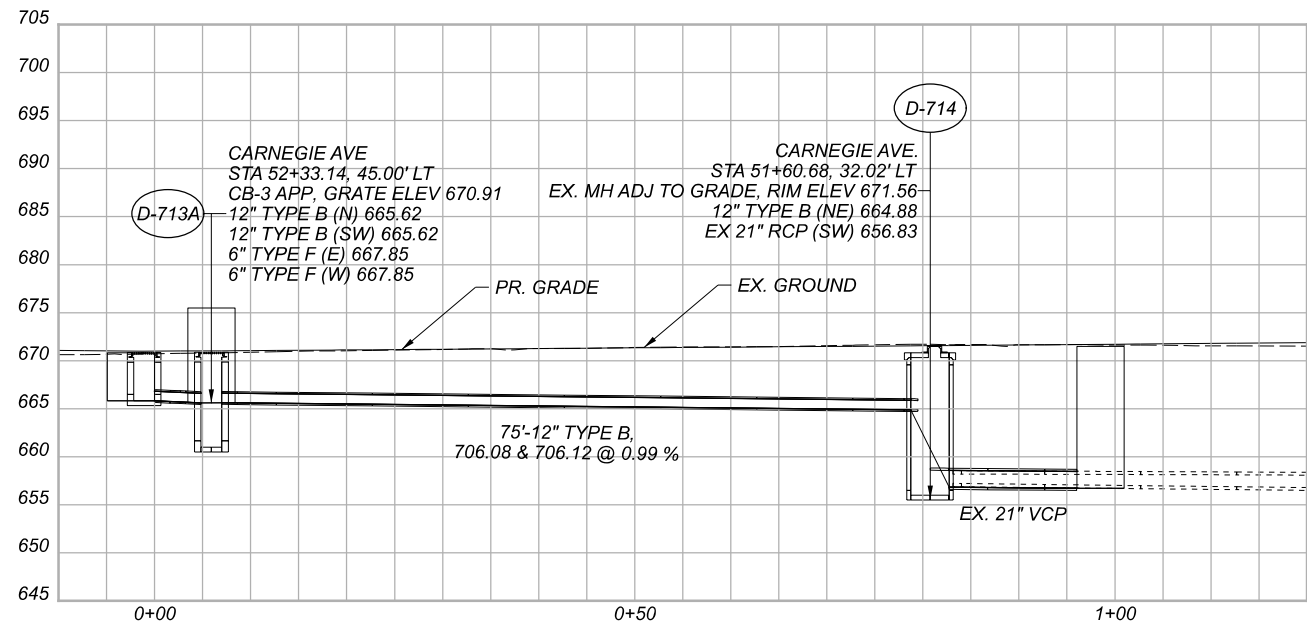
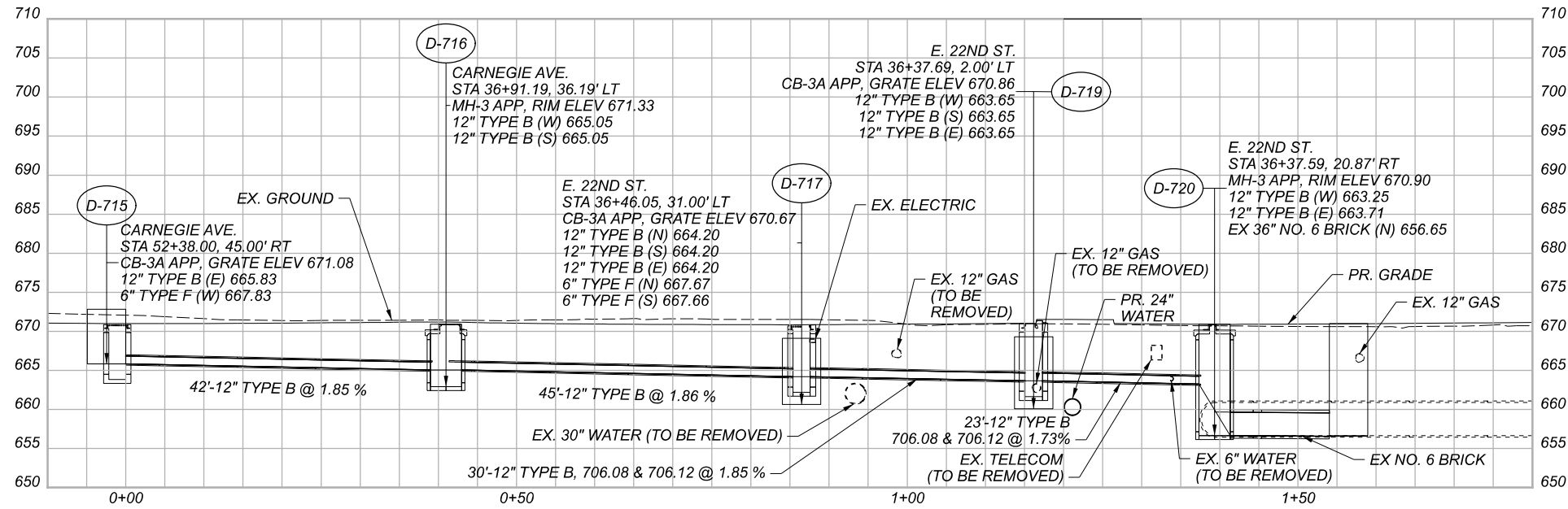
STORM SEWER PROFILES  
 CARNEGIE AVE. & E. 14TH ST./E. 18TH ST.

DESIGN AGENCY	
DESIGNER	
REVIEWER	
PROJECT ID	82382
SHEET	941
TOTAL	2339



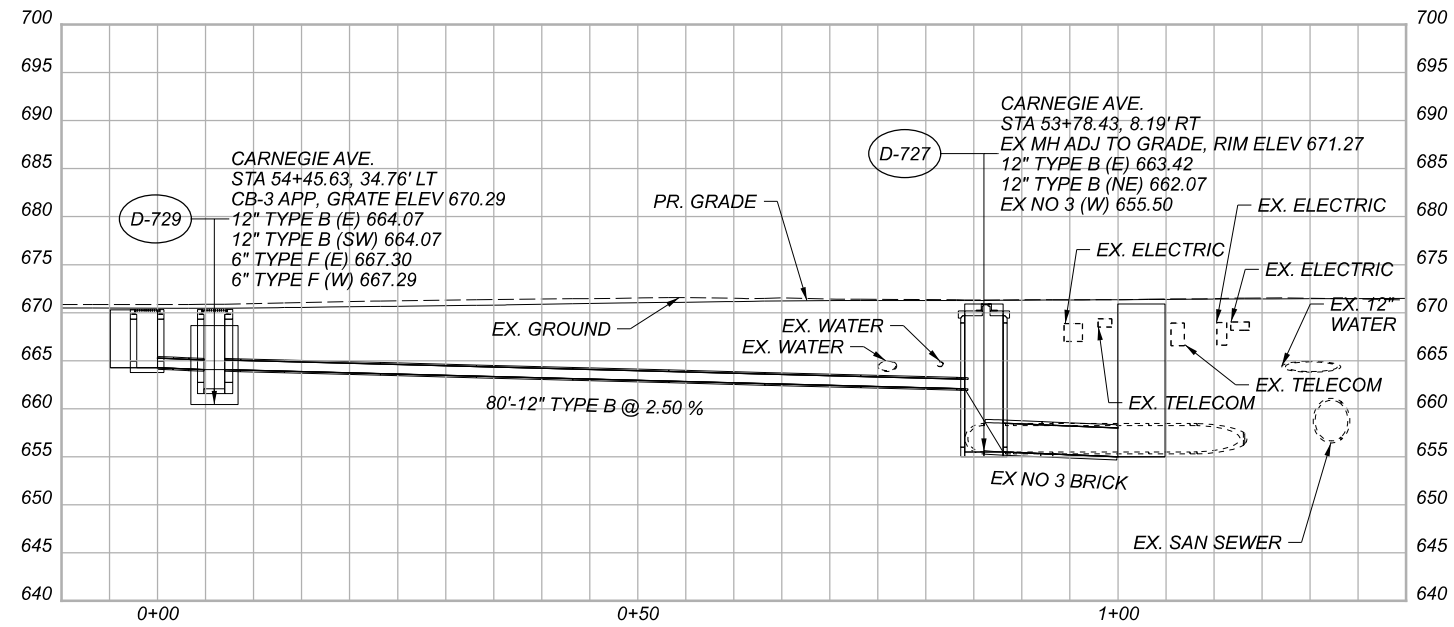
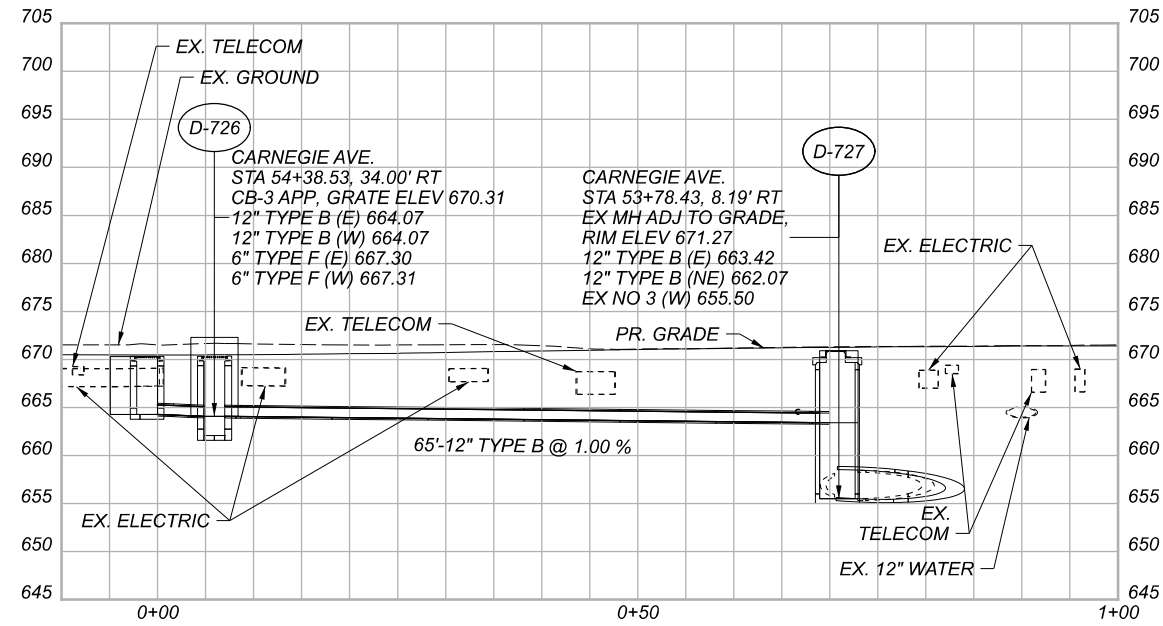
STORM SEWER PROFILES  
 CARNEGIE AVE. & E. 14TH ST./E. 18TH ST.

DESIGN AGENCY	
<b>Michael Baker</b> INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	942
TOTAL	2339



STORM SEWER PROFILES  
 CARNEGIE AVE. & E. 22ND ST.

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	
REVIEWER	
PROJECT ID	82382
SHEET	943
TOTAL	2339



STORM SEWER PROFILES  
 CARNEGIE AVE. & E. 22ND ST.

DESIGN AGENCY

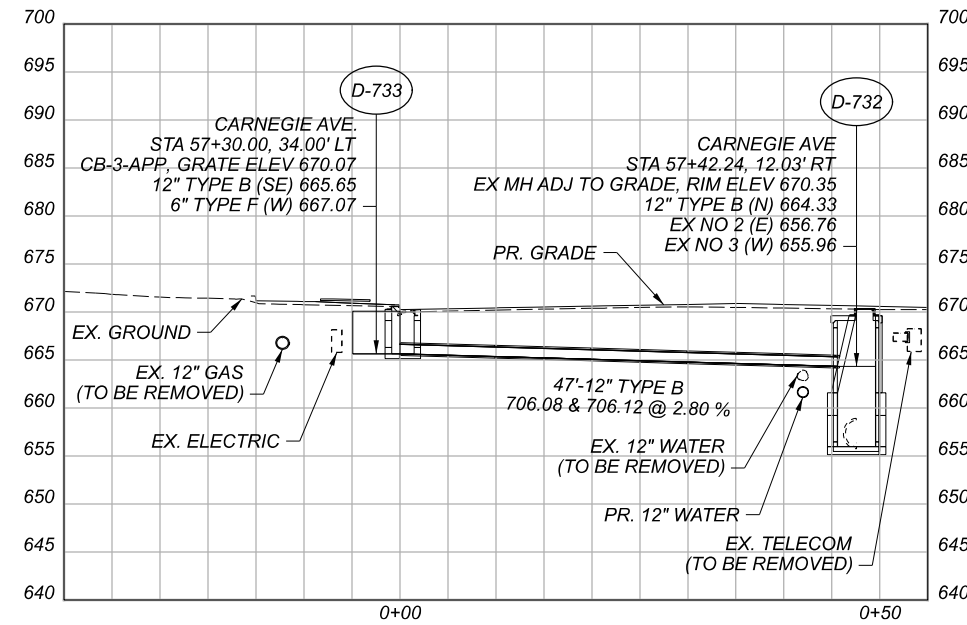
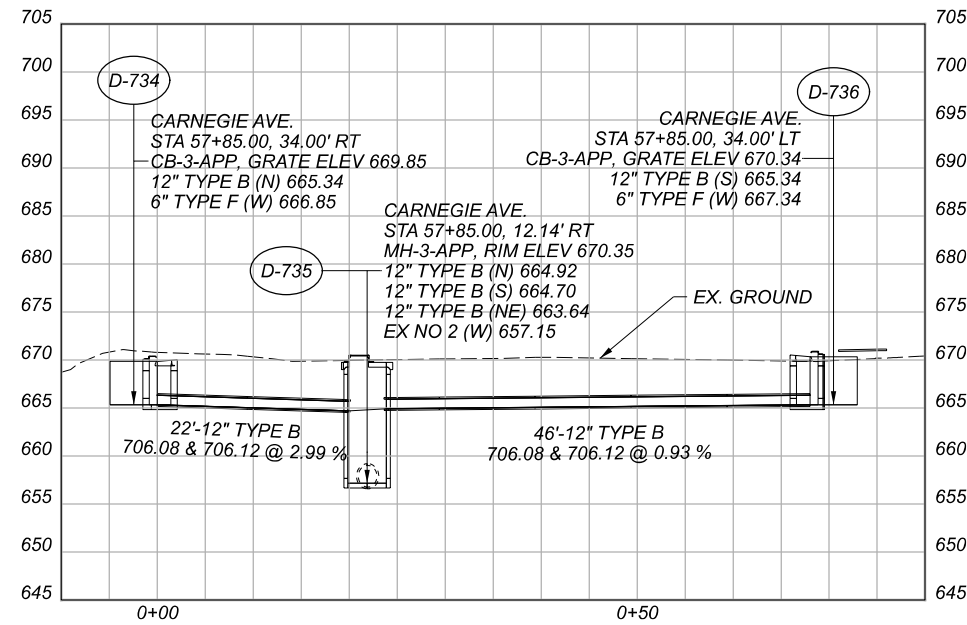
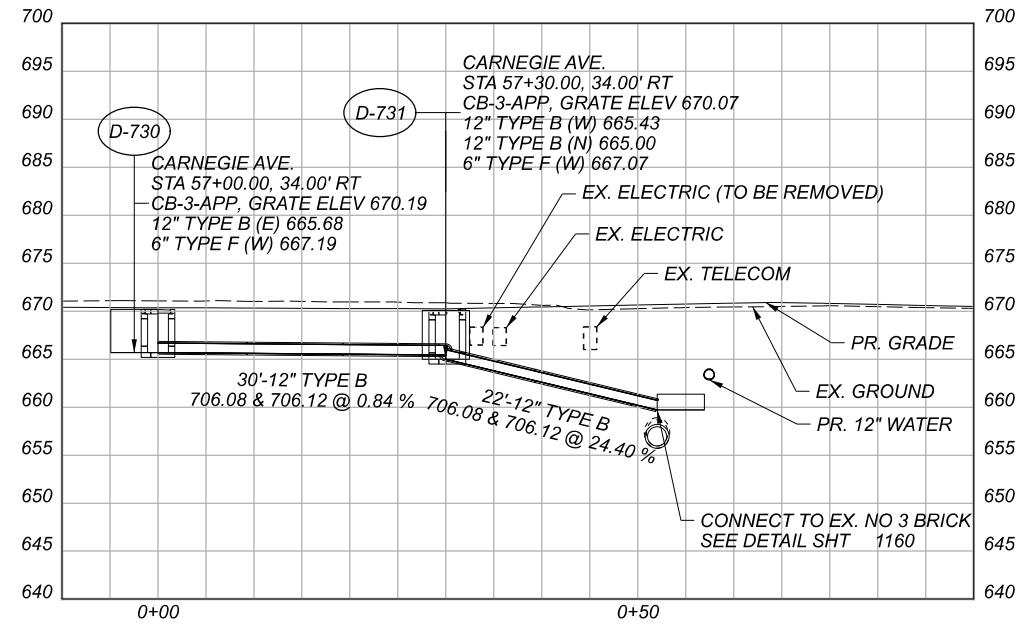
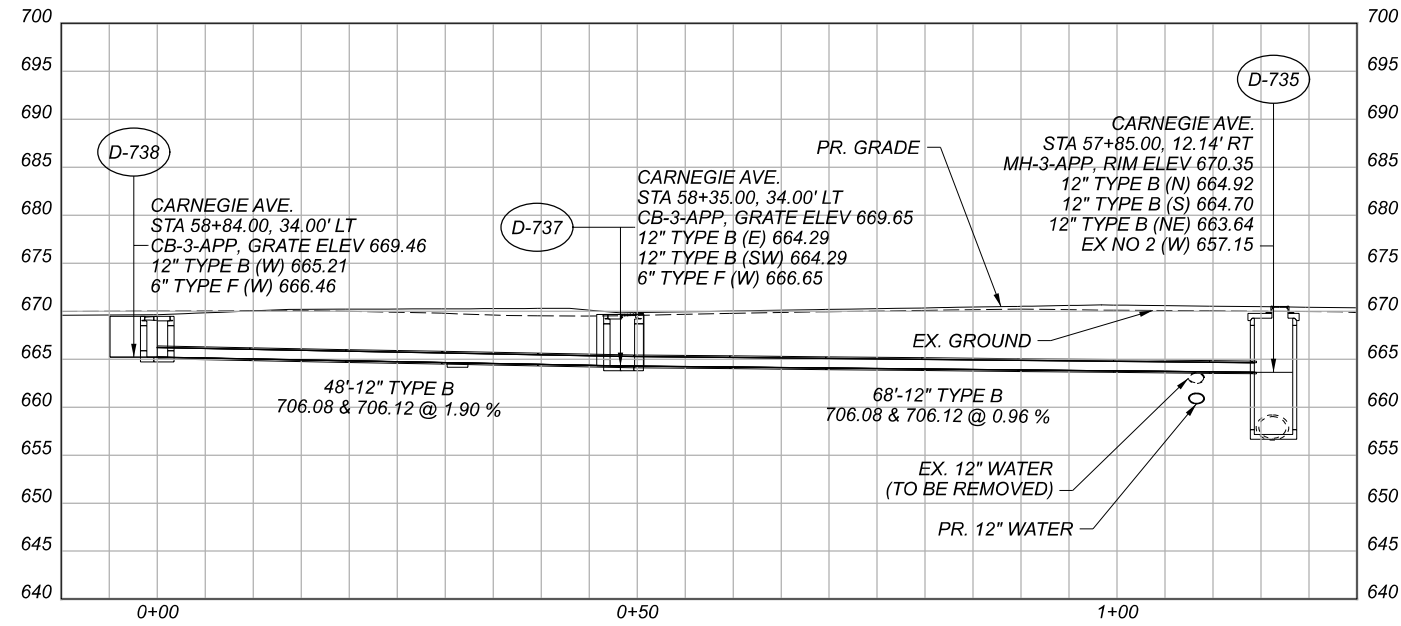
Michael Baker  
 INTERNATIONAL

DESIGNER

REVIEWER

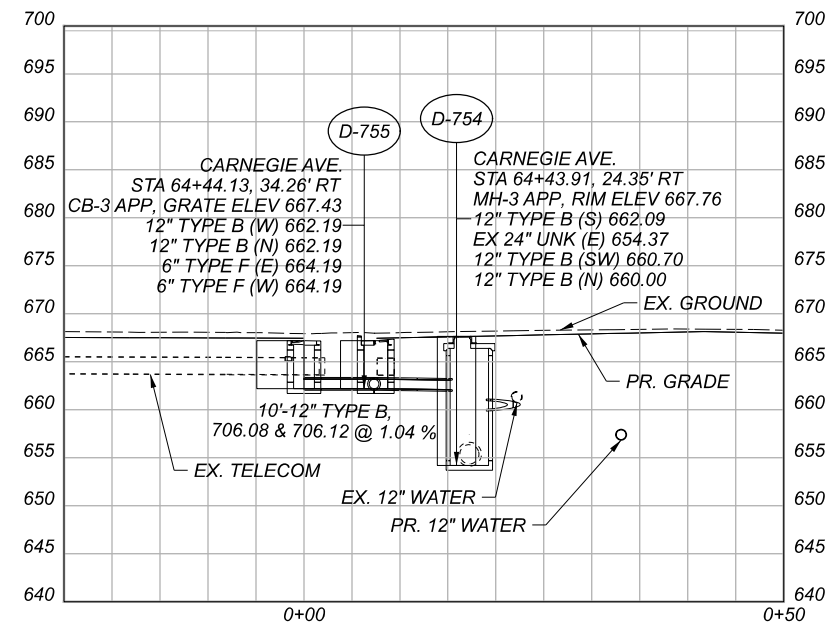
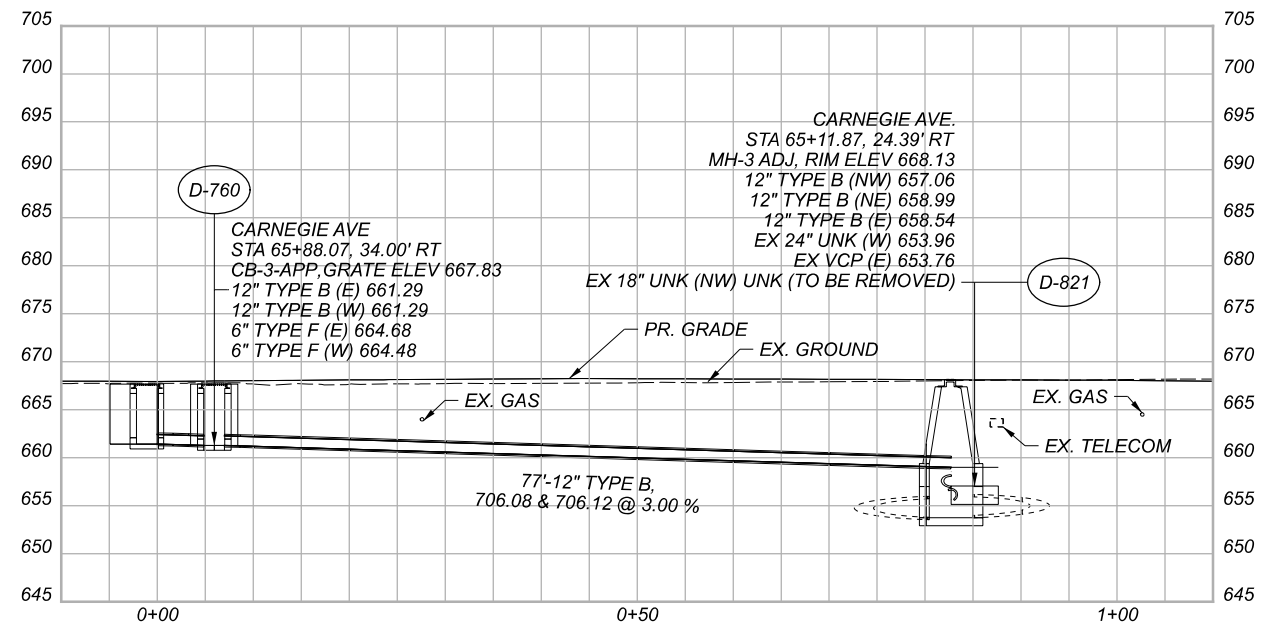
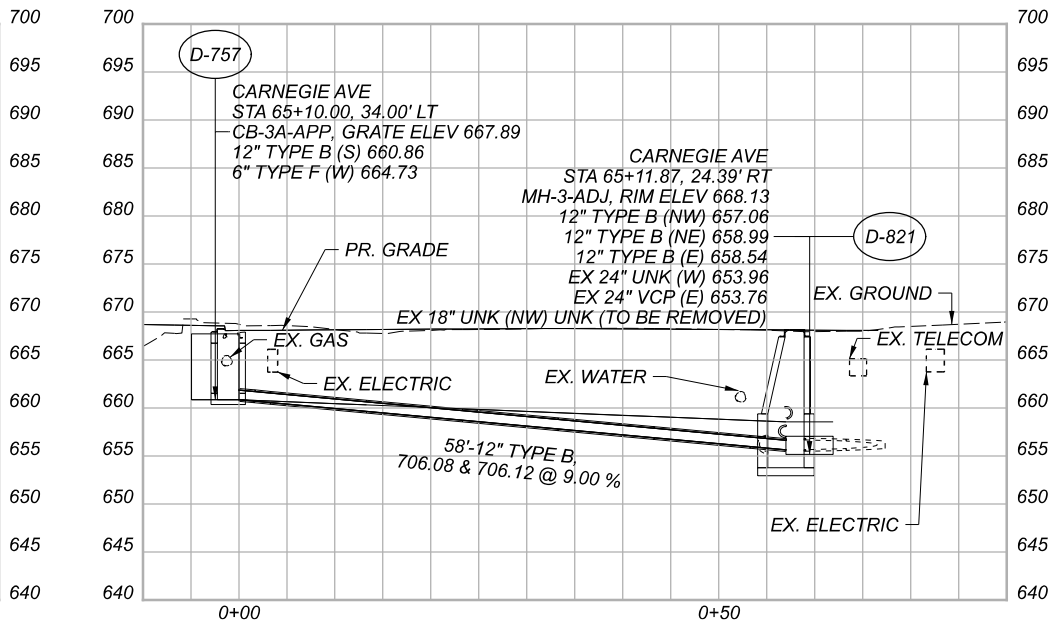
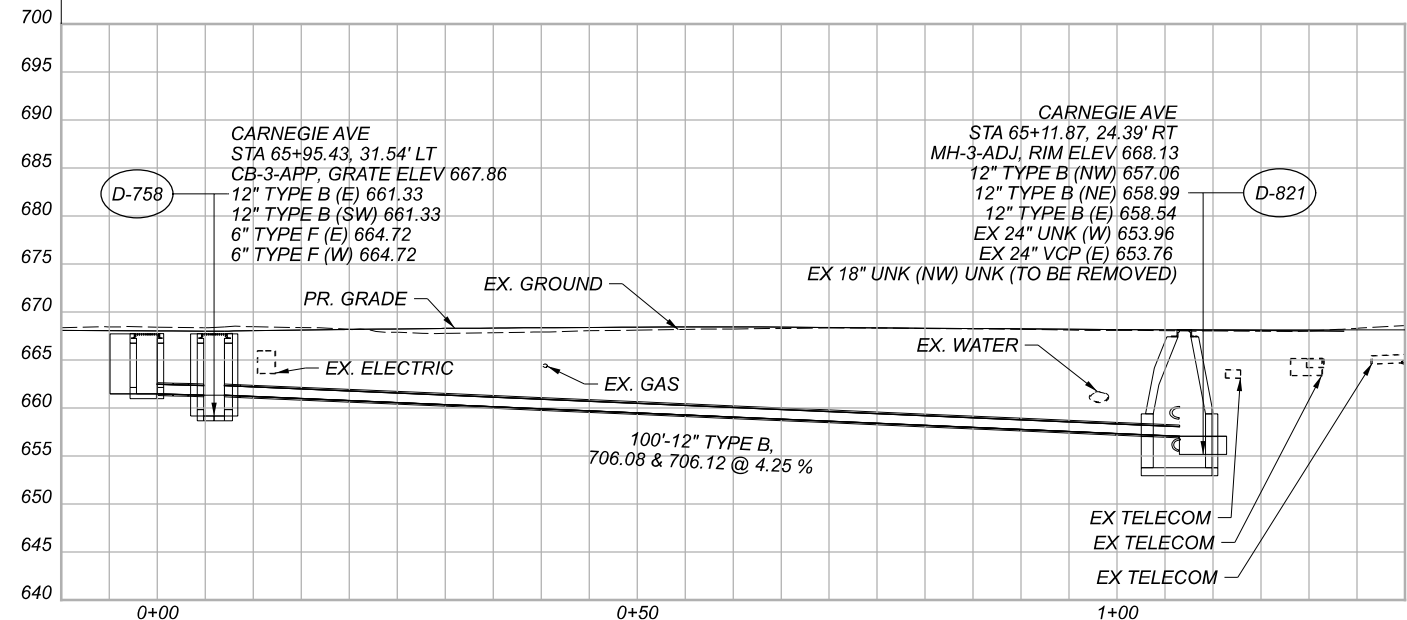
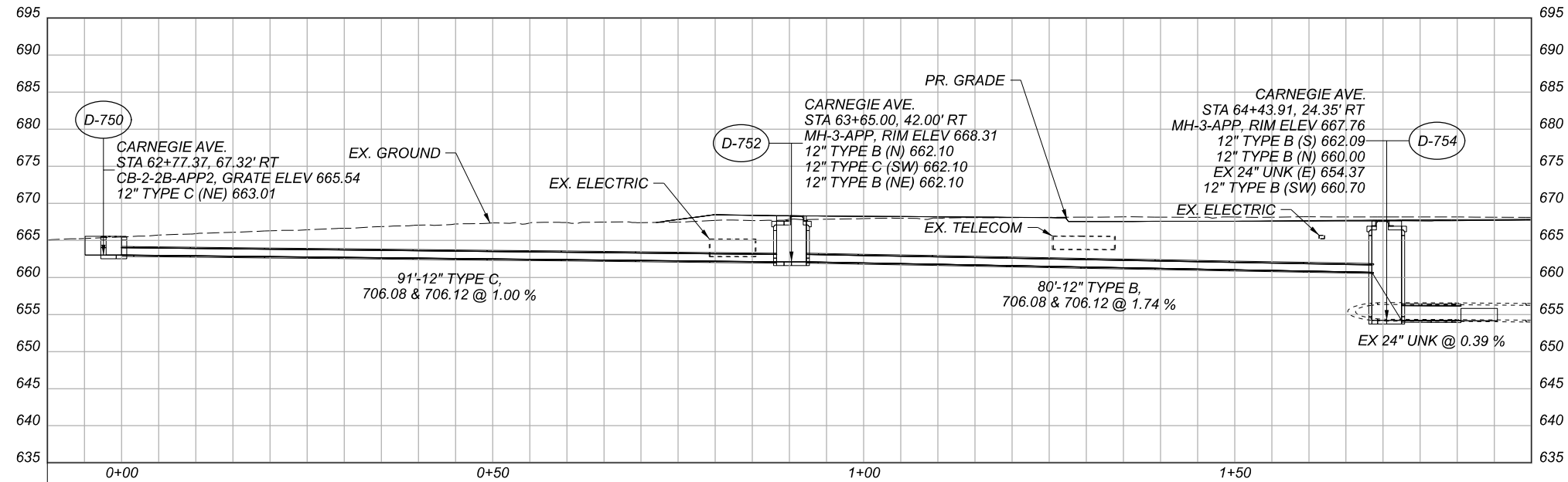
PROJECT ID  
 82382

SHEET TOTAL  
 944 2339



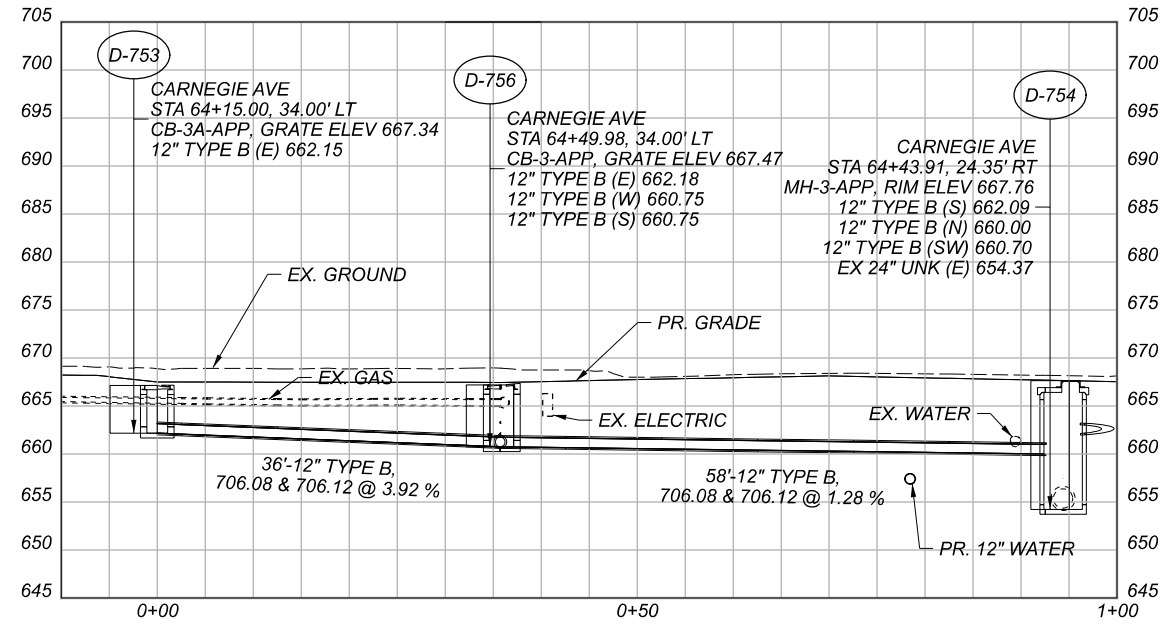
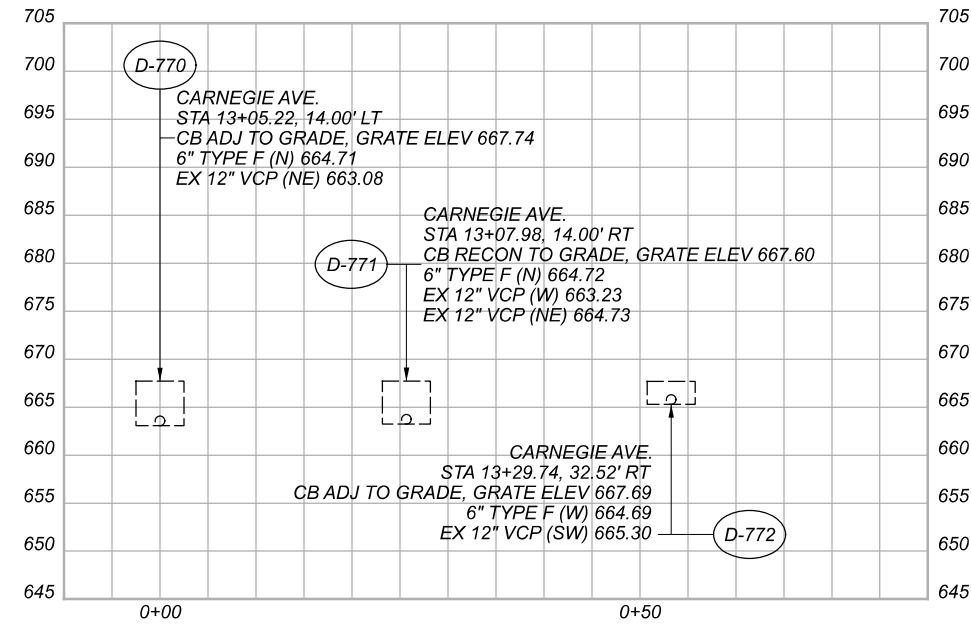
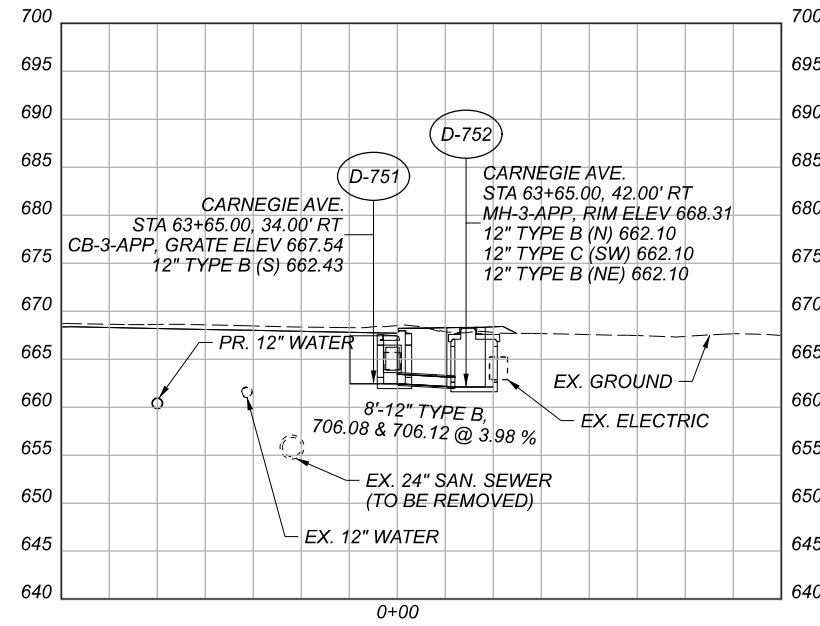
STORM SEWER PROFILES  
 CARNEGIE AVE

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	TOTAL
945	2339



STORM SEWER PROFILES  
 CARNEGIE AVE. & MIDTOWN CONNECTOR

DESIGN AGENCY	
<b>Michael Baker</b> INTERNATIONAL	
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	946
TOTAL	2339



STORM SEWER PROFILES  
 CARNEGIE AVE. & E. 28TH ST.

DESIGN AGENCY

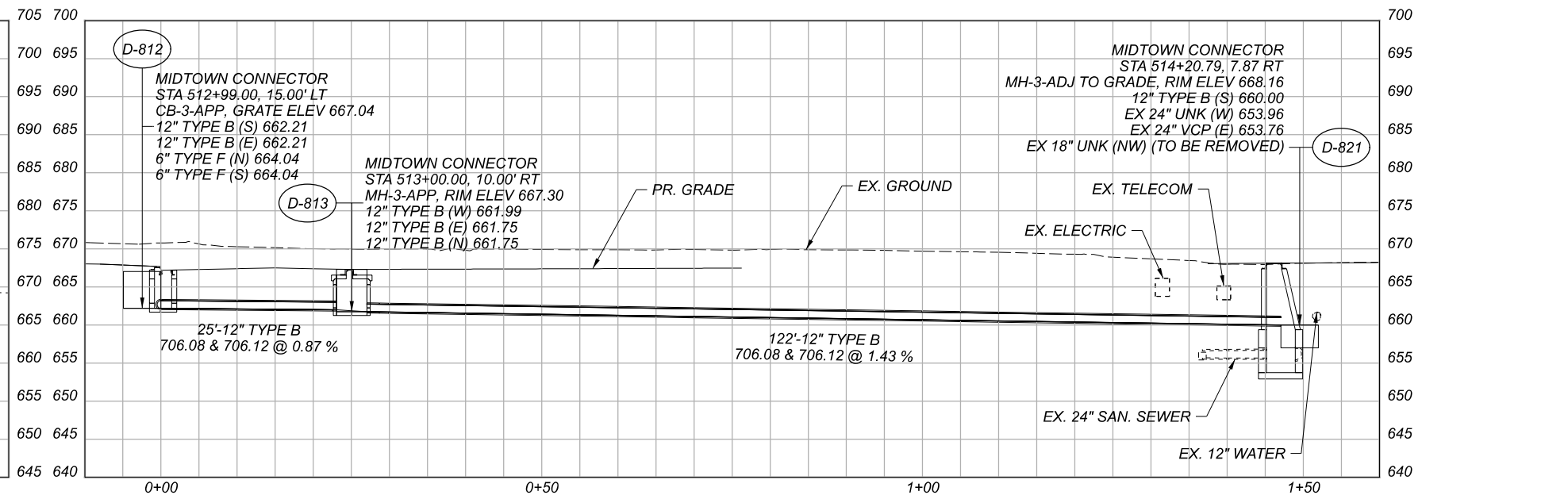
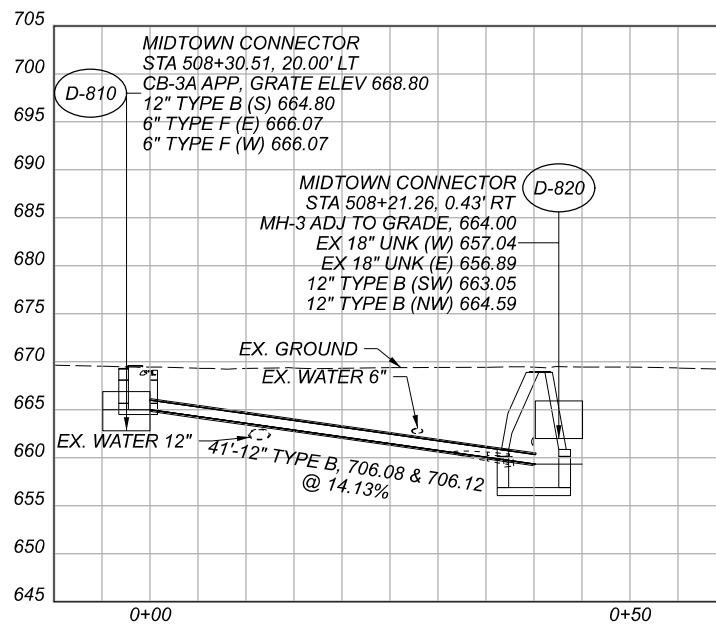
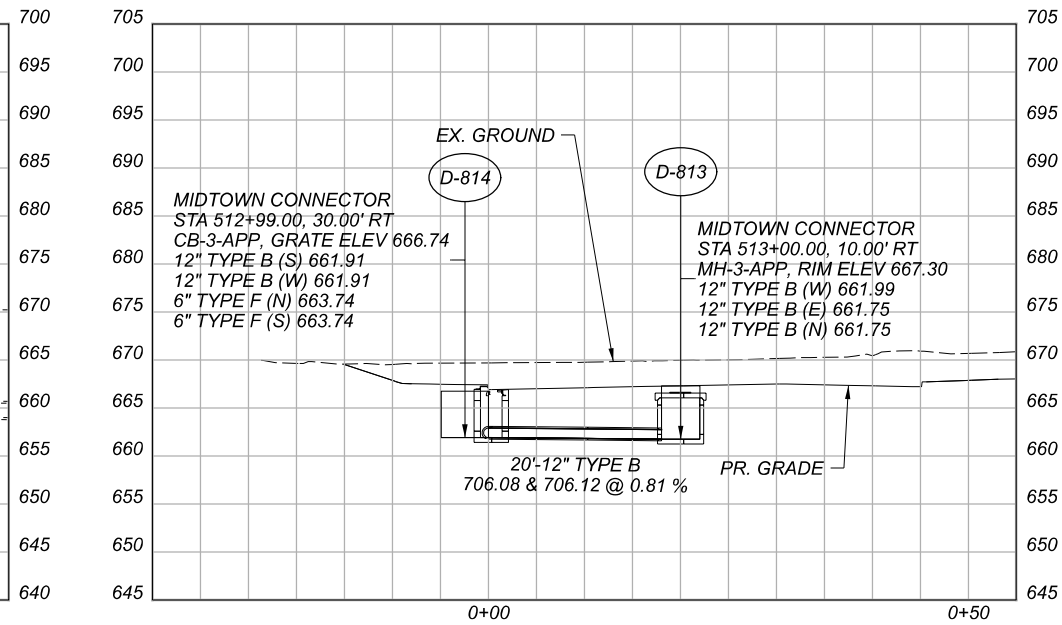
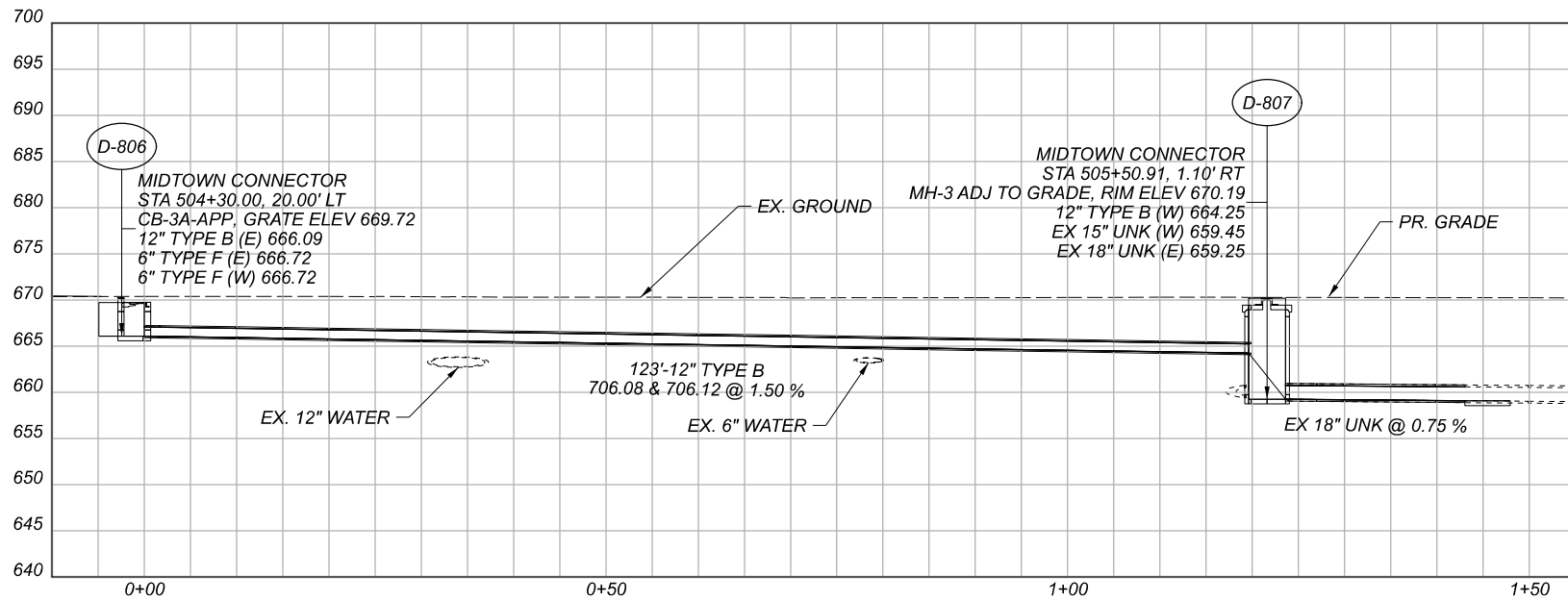
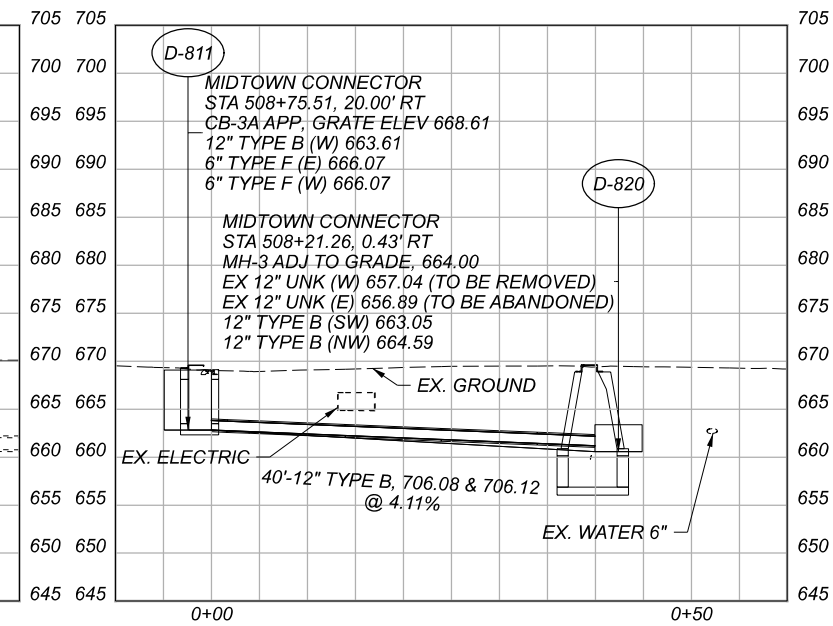
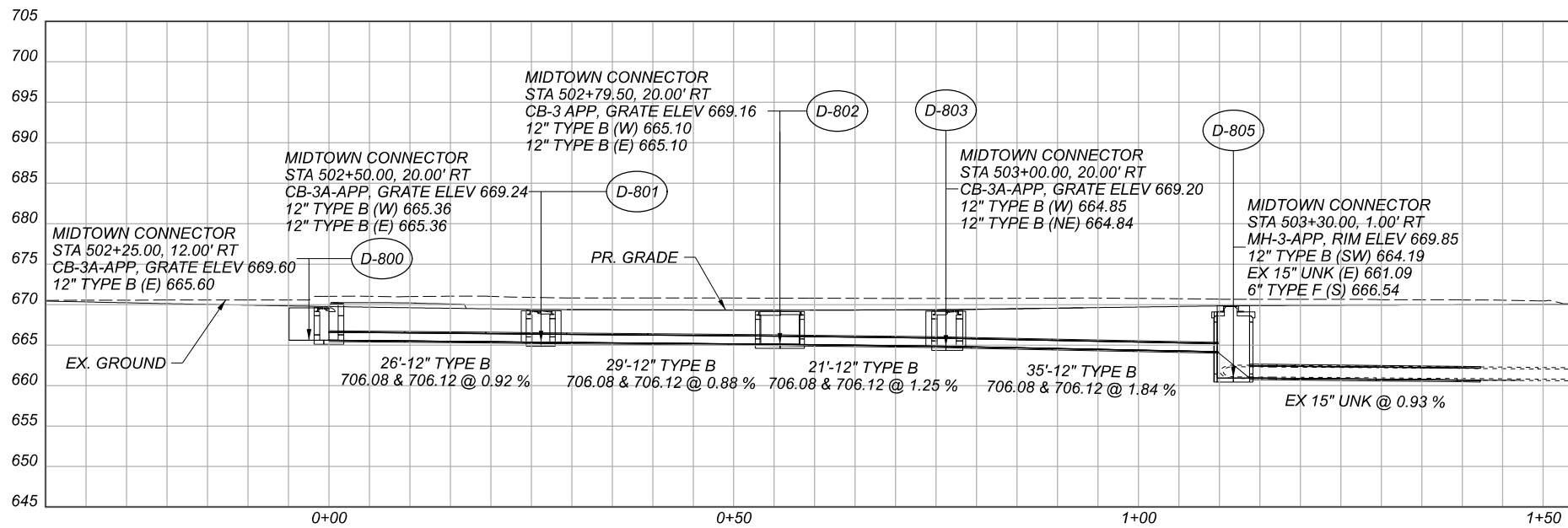
**Michael Baker**  
 INTERNATIONAL

DESIGNER

REVIEWER

PROJECT ID  
 82382

SHEET	TOTAL
947	2339



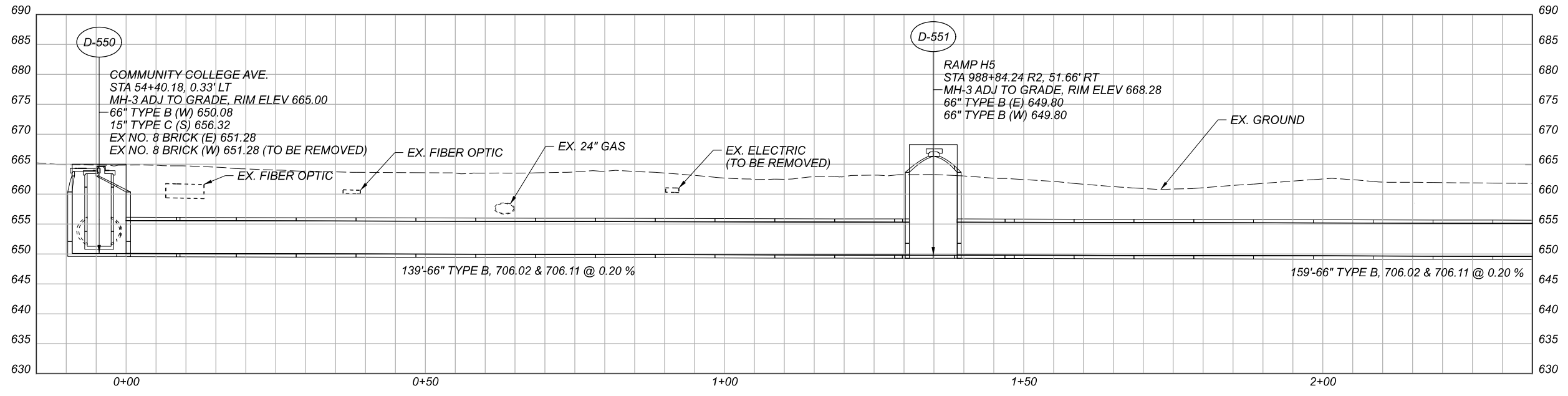
STORM SEWER PROFILES  
 MIDTOWN CONNECTOR

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	TOTAL
948	2339

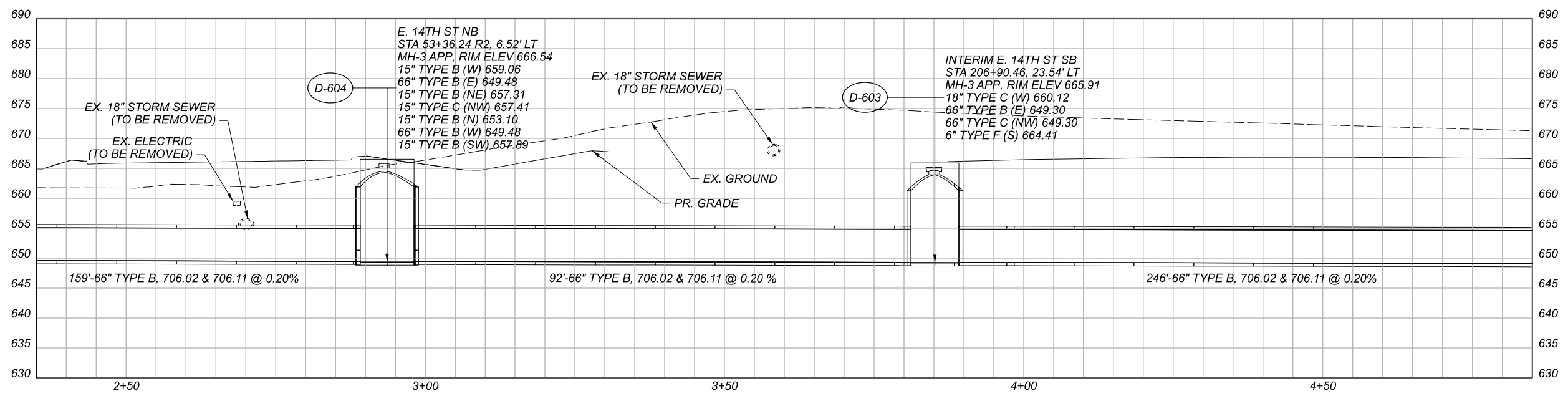


MATCHLINE A-A  
SEE ABOVE

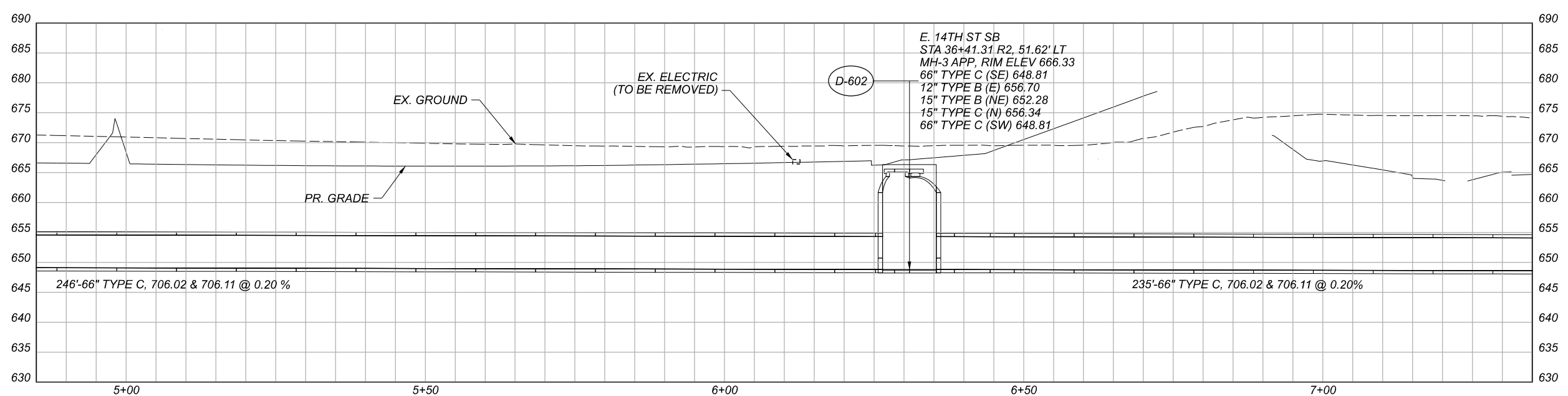
MATCHLINE B-B  
SEE ABOVE



MATCHLINE A-A  
SEE BELOW



MATCHLINE B-B  
SEE BELOW

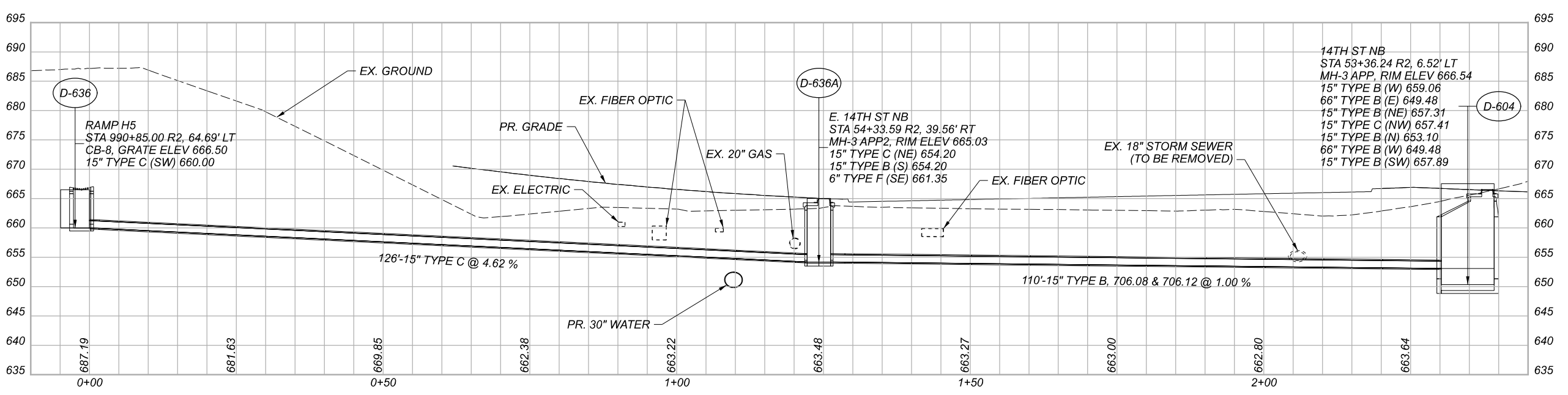
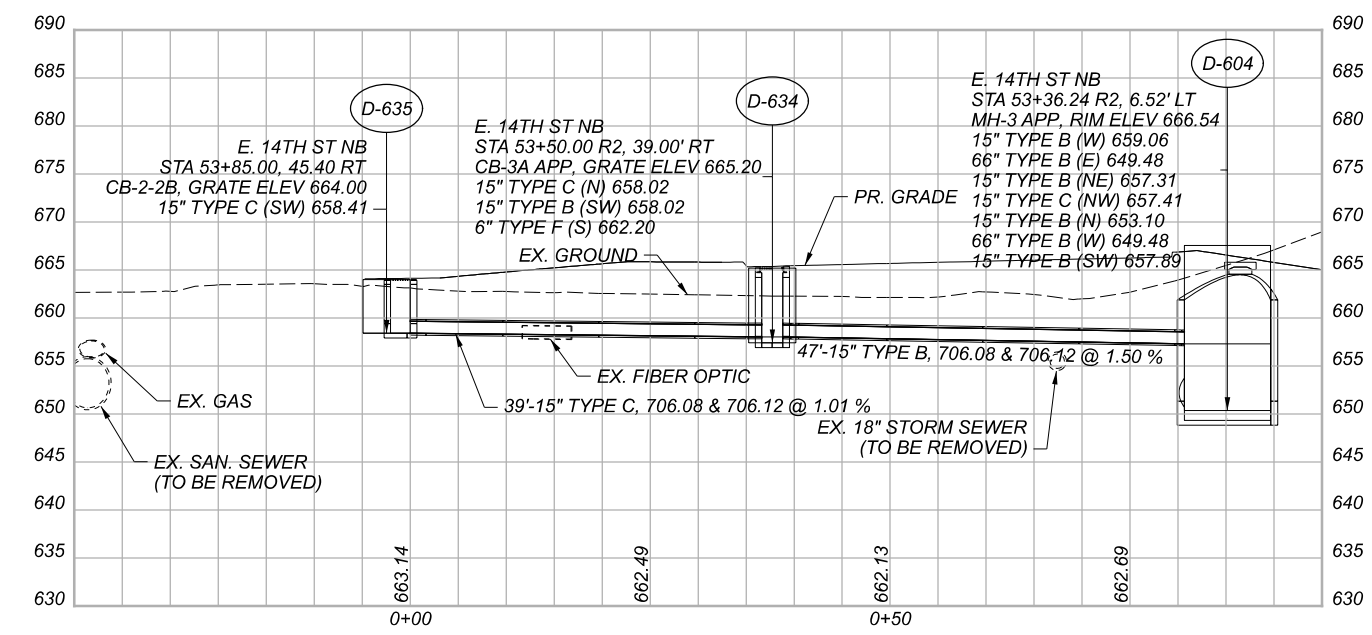
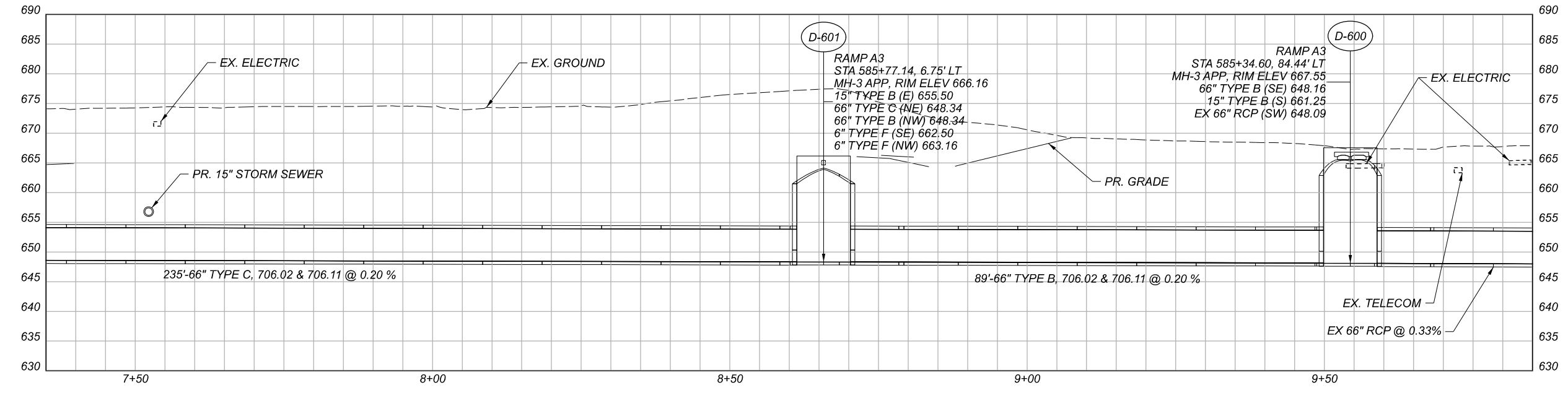


MATCHLINE C-C  
SEE SHEET 950

STORM SEWER PROFILES  
 E. 14TH ST.

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	TOTAL
949	2339

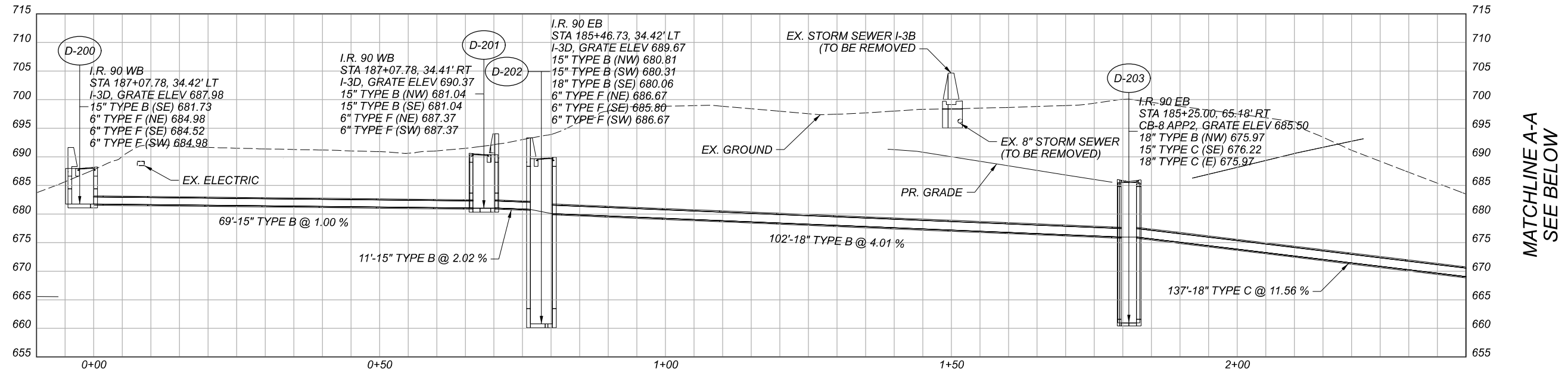
MATCHLINE C-C  
 SEE SHEET 949



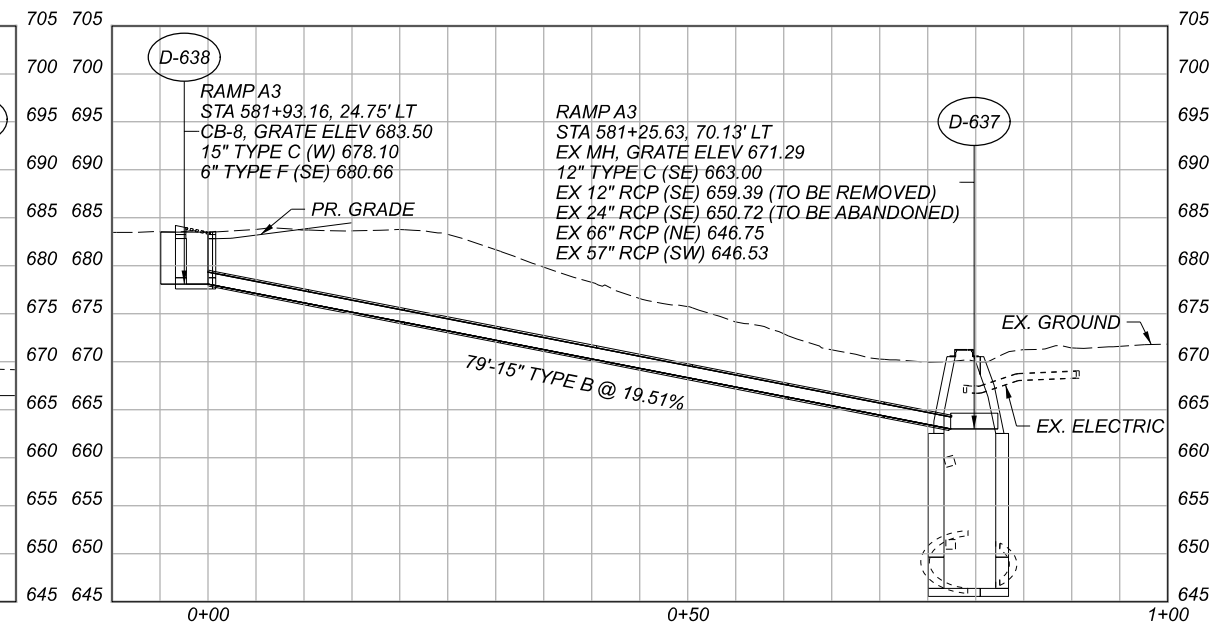
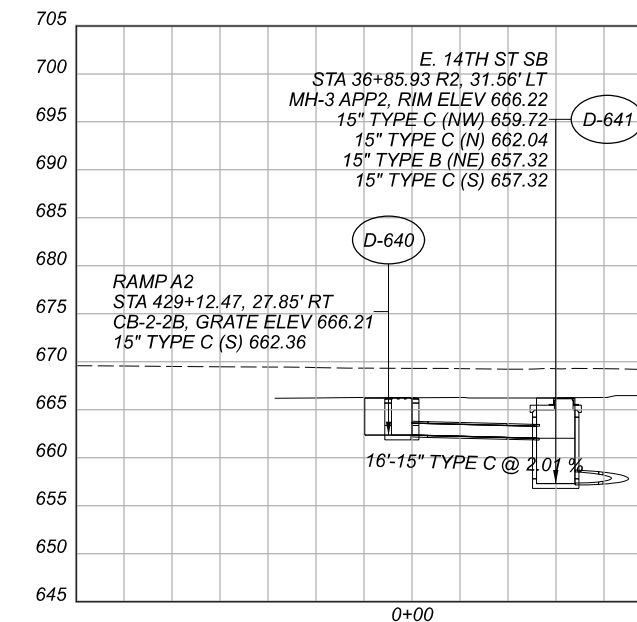
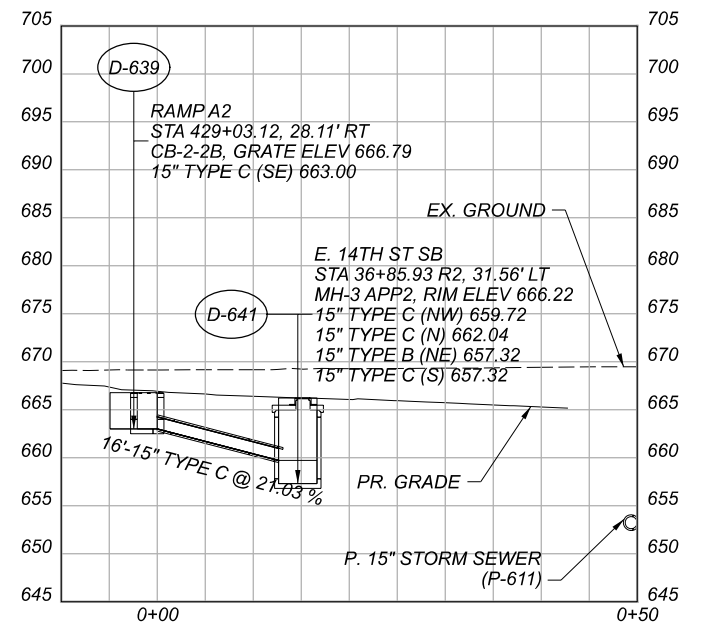
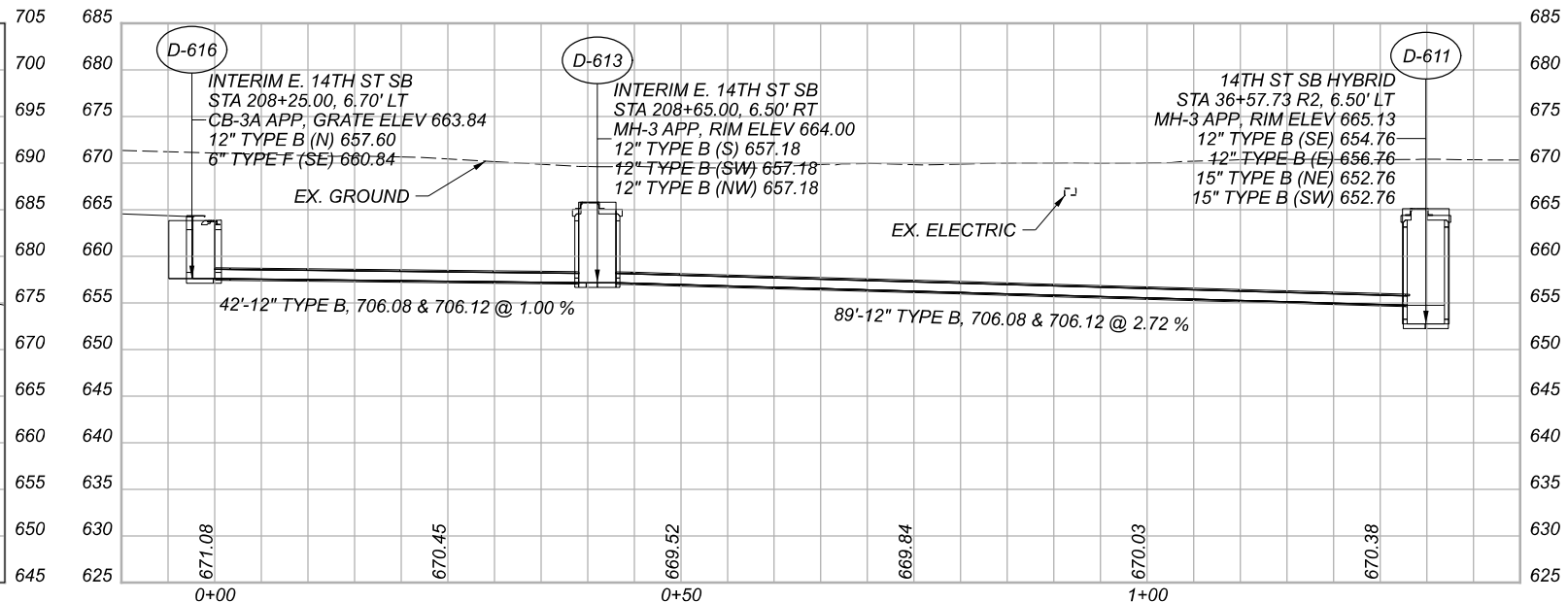
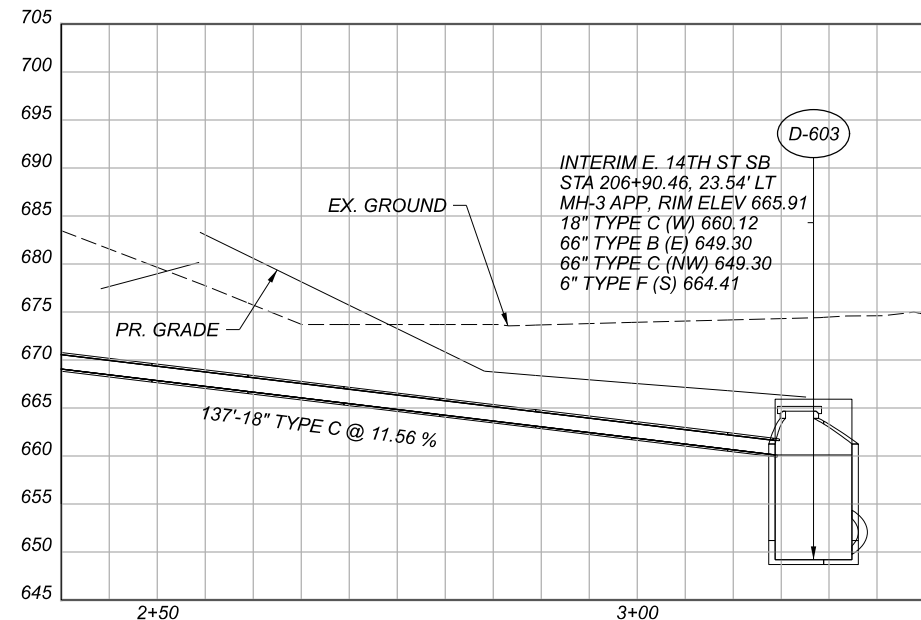
STORM SEWER PROFILES  
 E. 14TH ST.

DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	TOTAL
950	2339

MATCHLINE A-A  
SEE ABOVE



MATCHLINE A-A  
SEE BELOW



STORM SEWER PROFILES  
E. 14TH ST.

DESIGN AGENCY

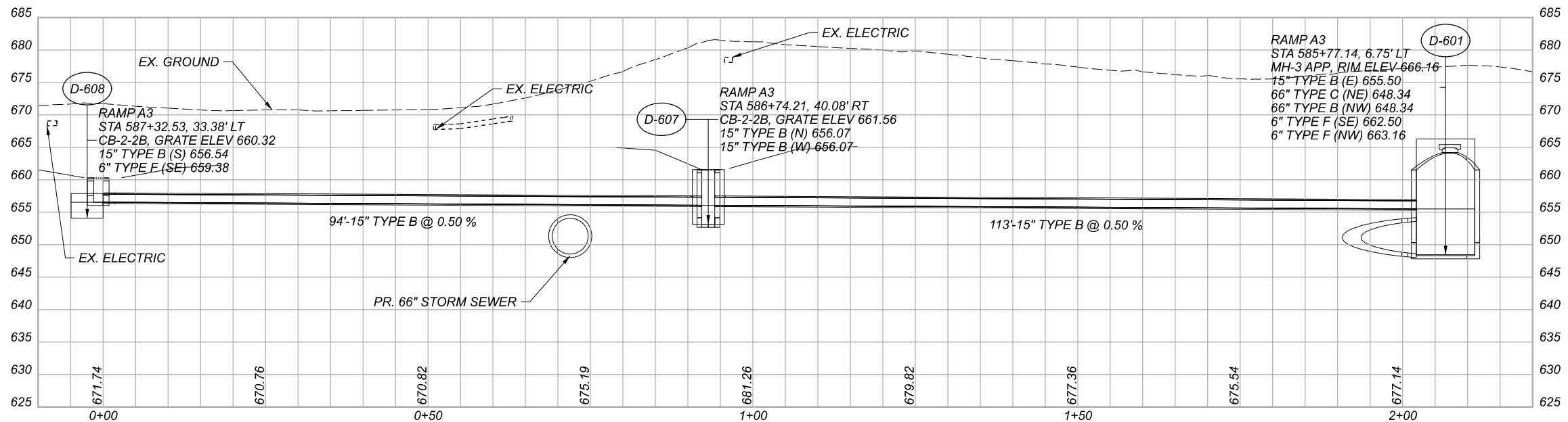
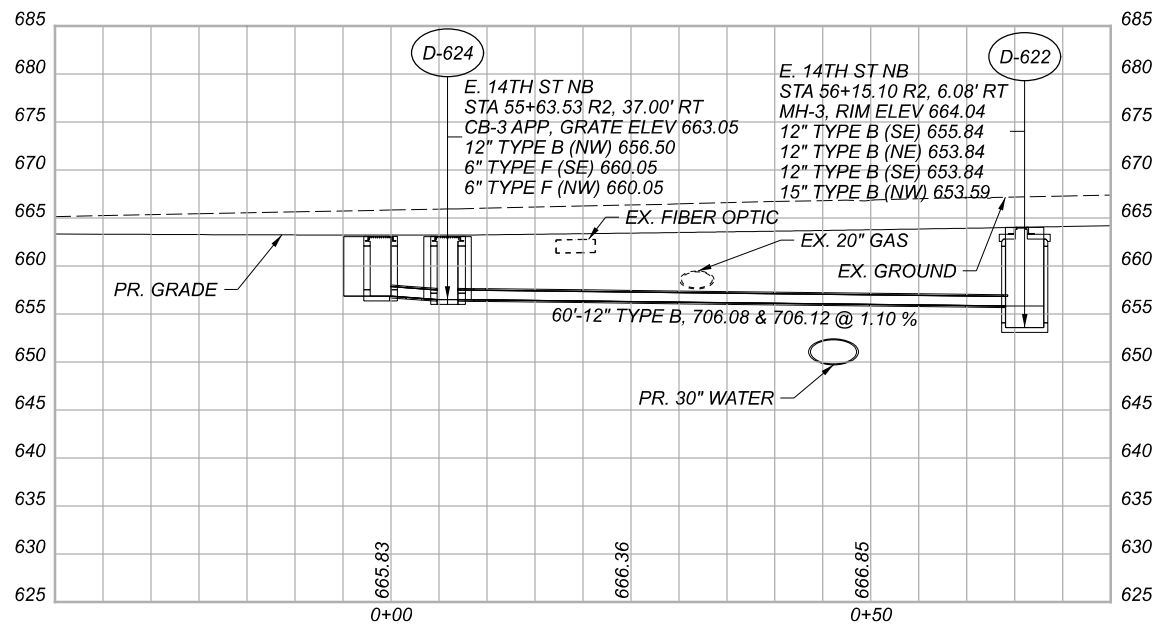
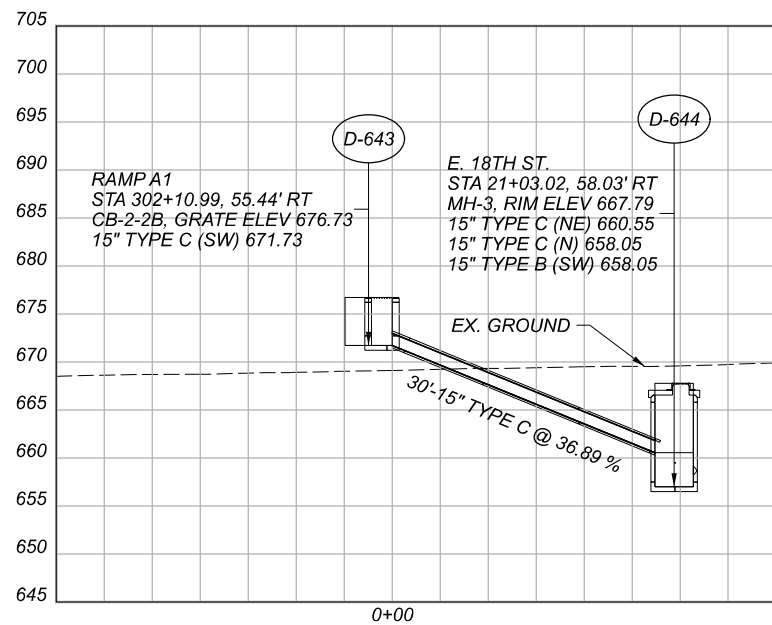
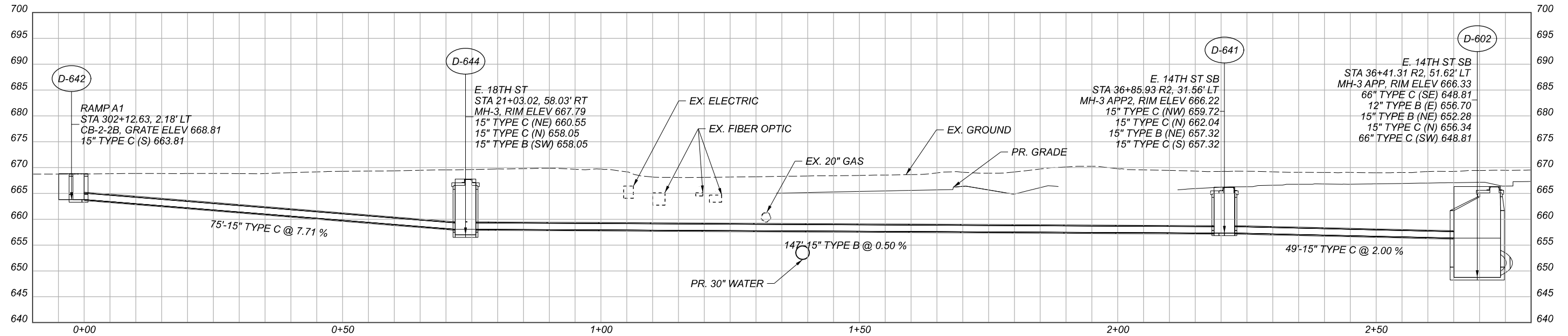
Michael Baker  
INTERNATIONAL

DESIGNER  
XXX

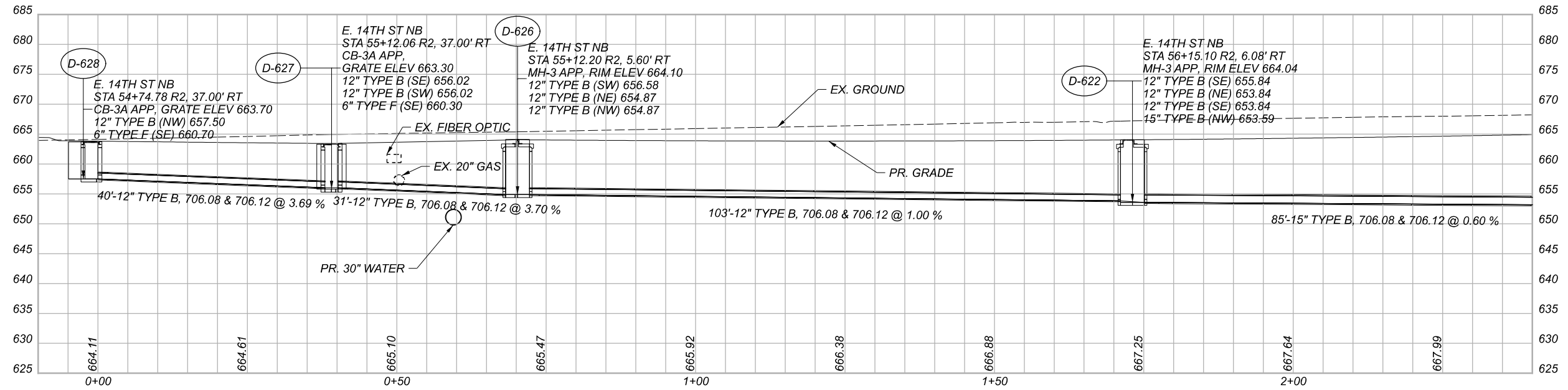
REVIEWER  
XXX MM-DD-YY

PROJECT ID  
82382

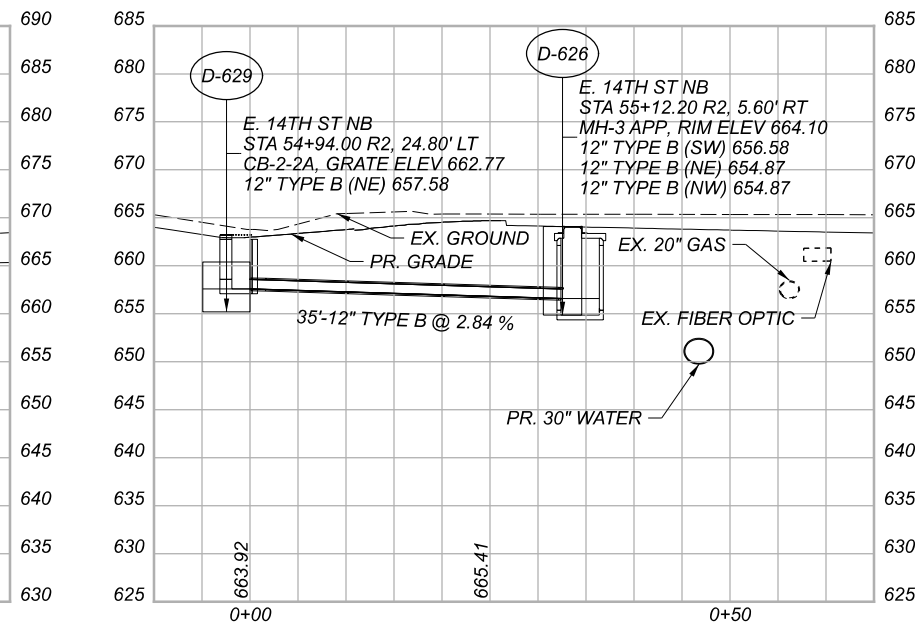
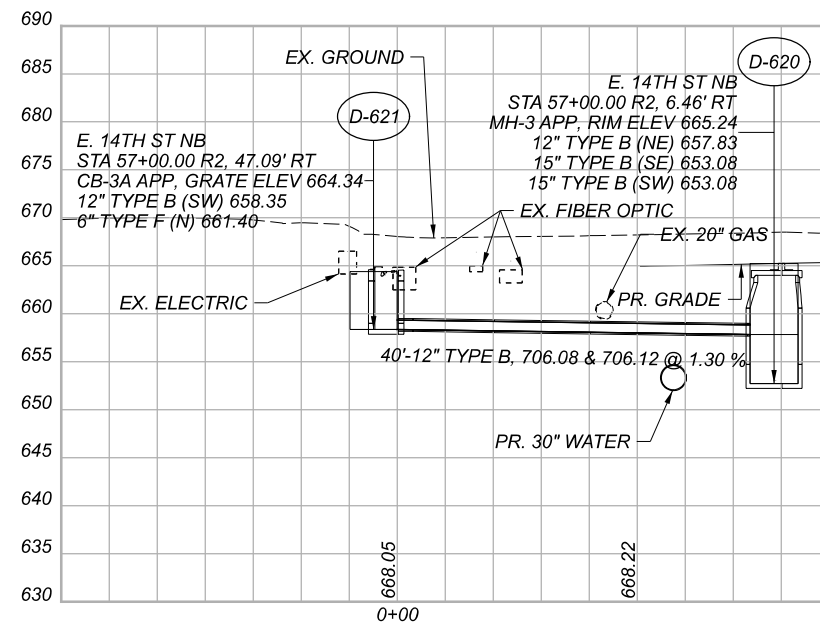
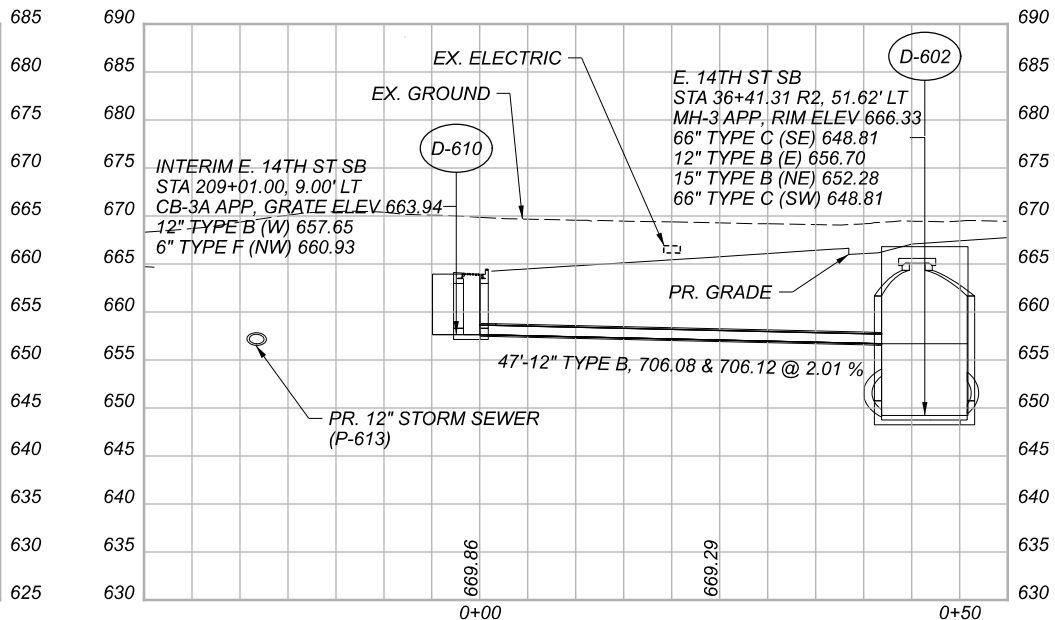
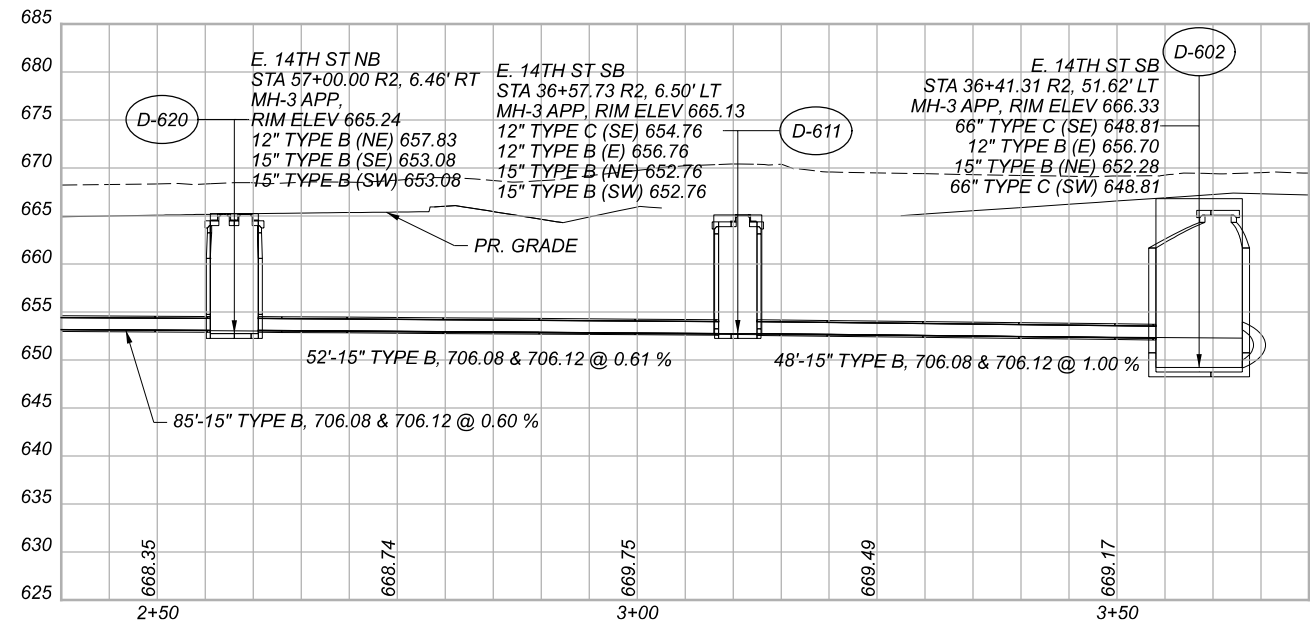
SHEET TOTAL  
951 2339



MATCHLINE A-A  
SEE ABOVE

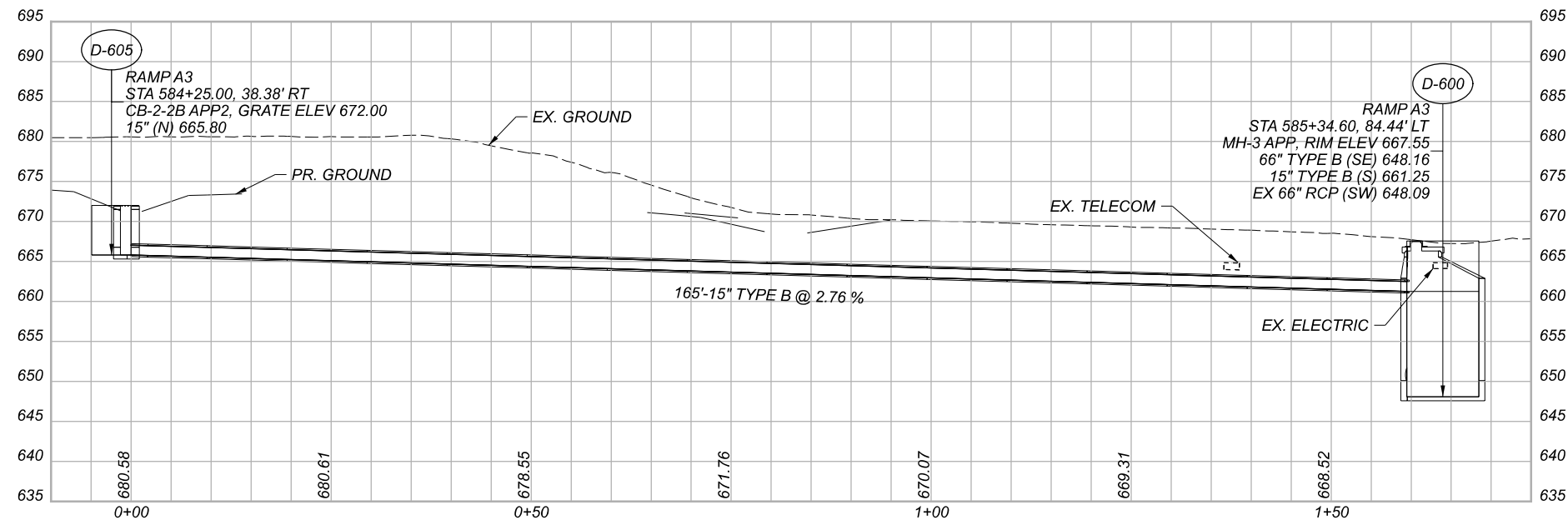
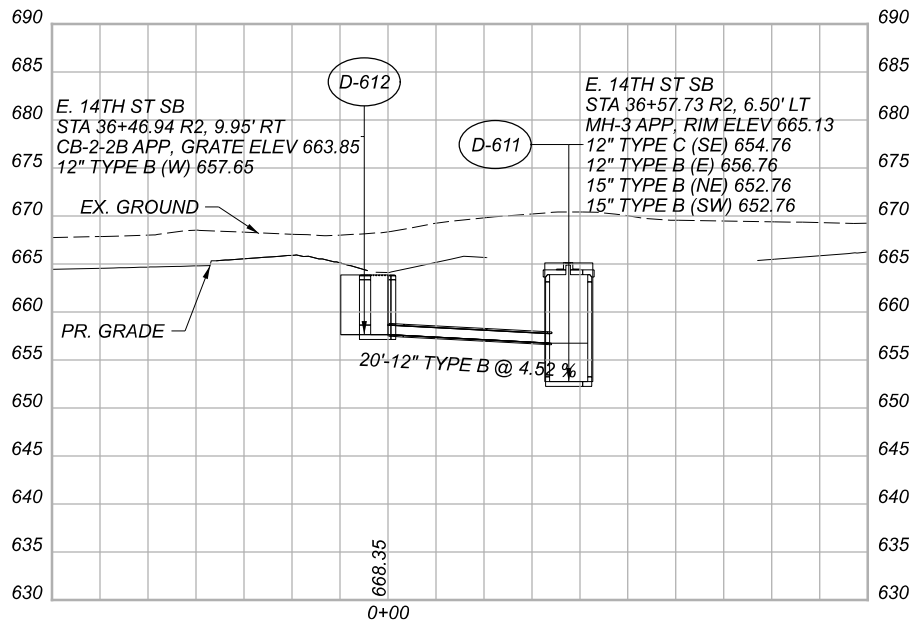
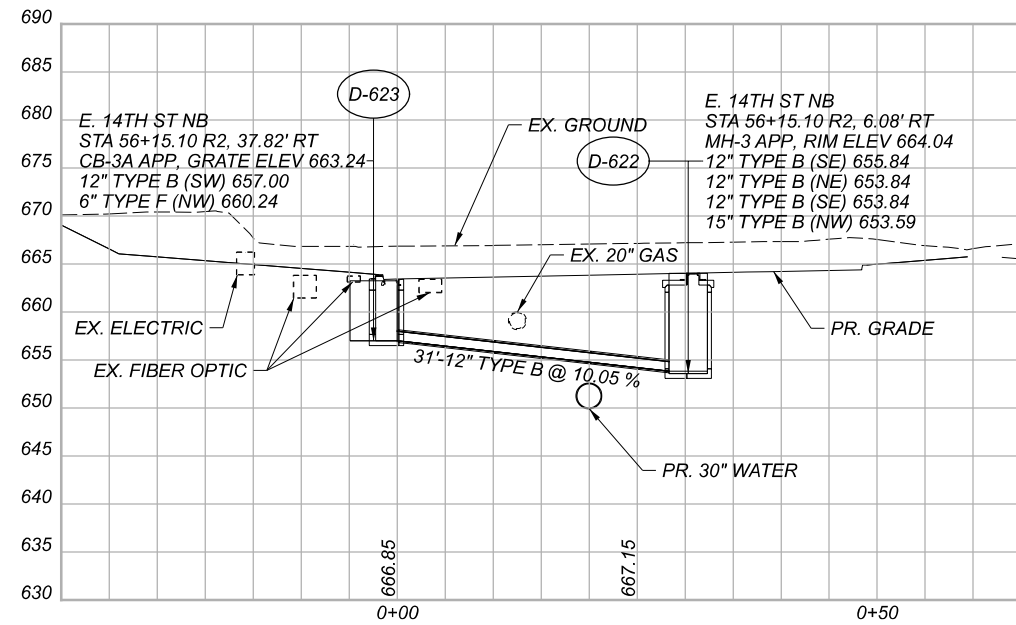
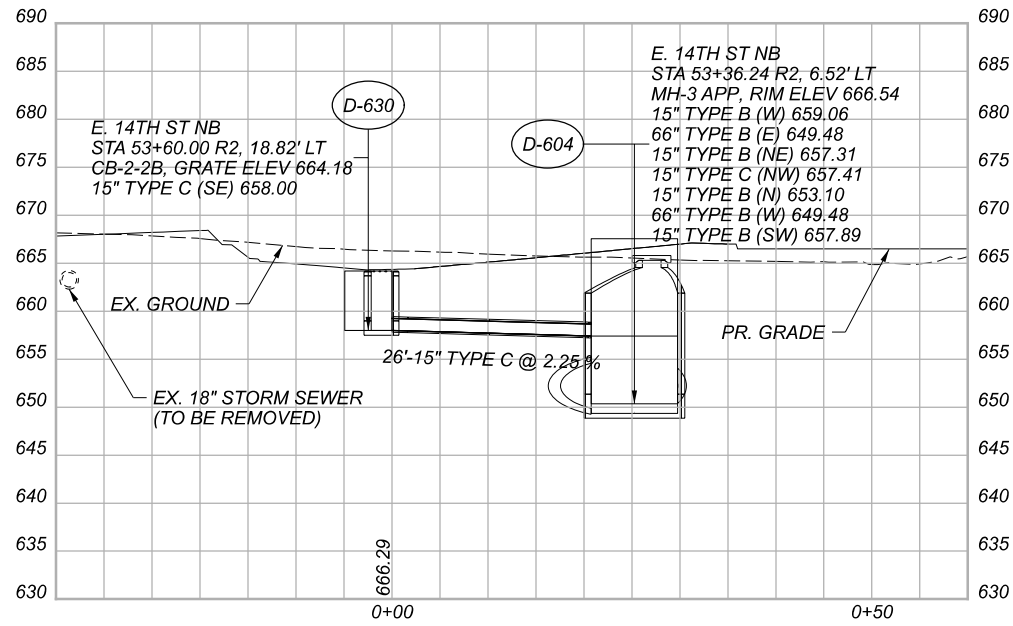
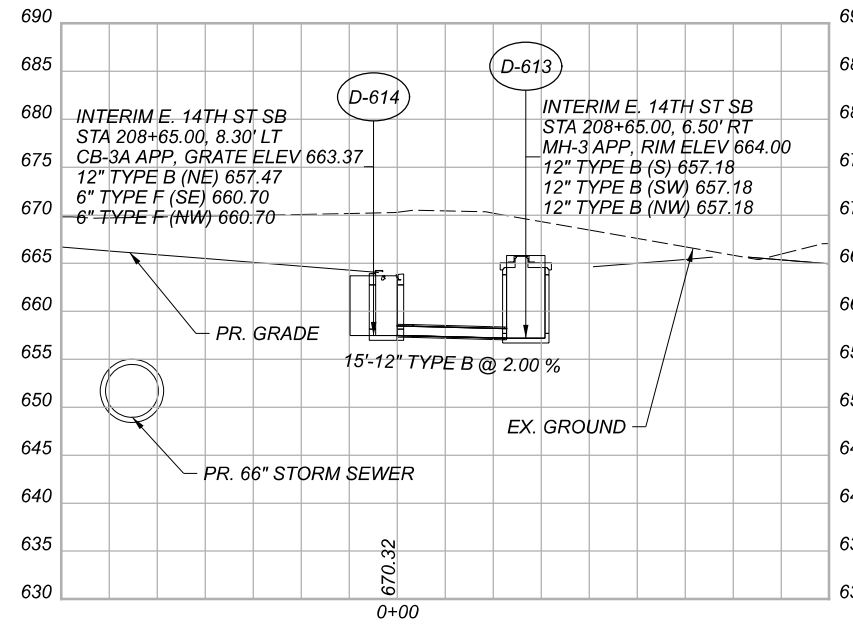


MATCHLINE A-A  
SEE BELOW



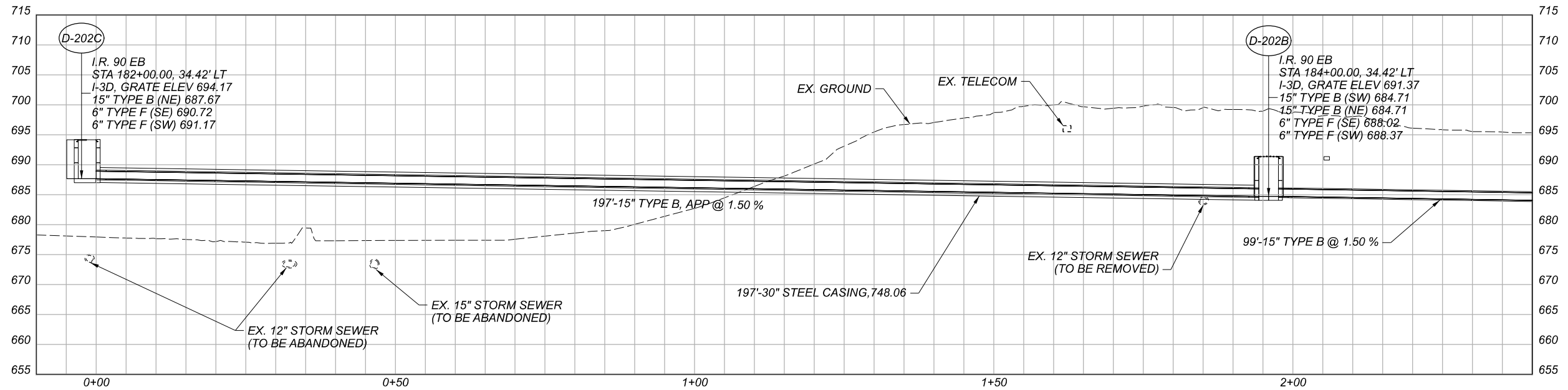
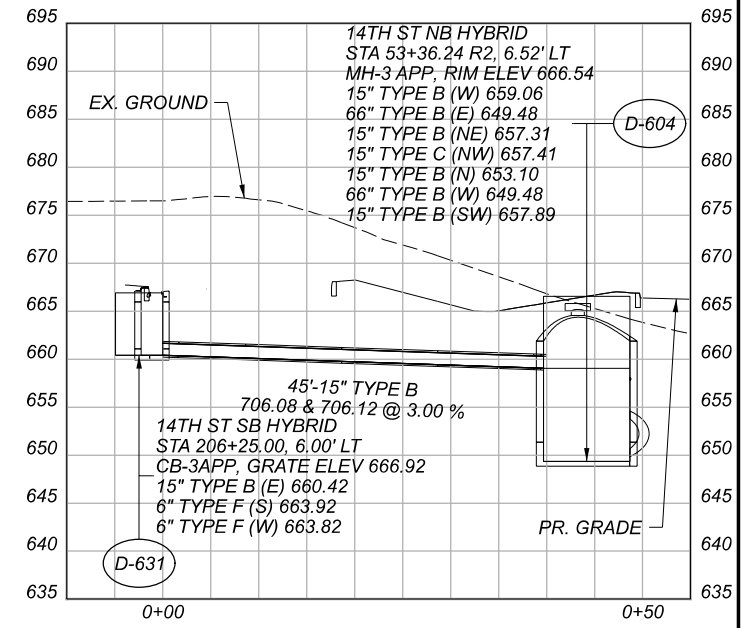
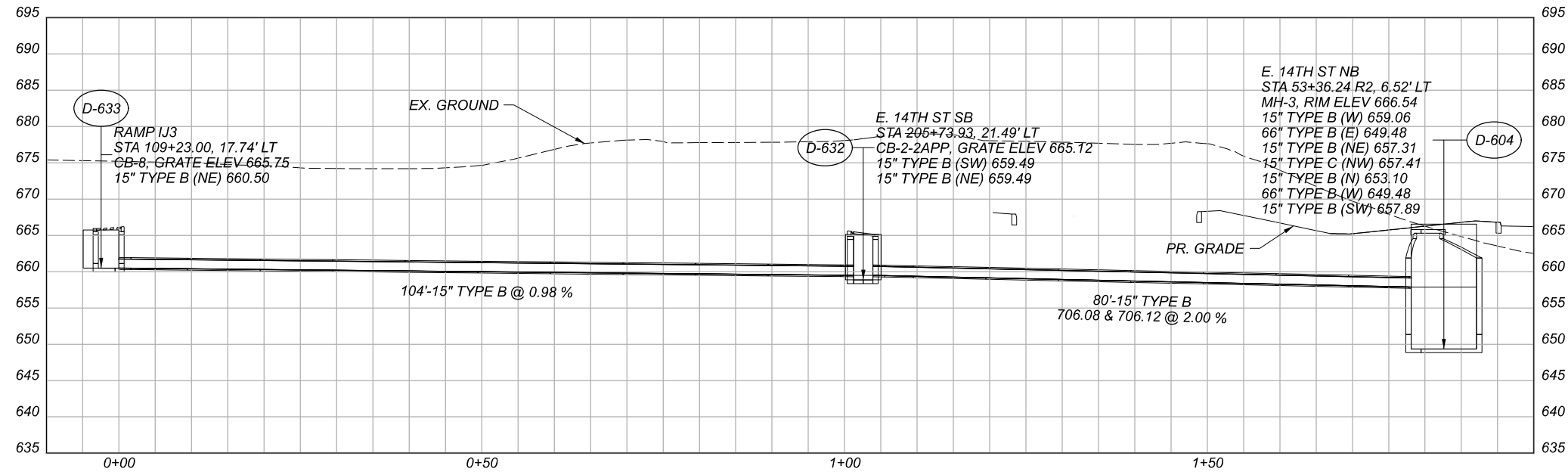
STORM SEWER PROFILES  
E. 14TH ST.

DESIGN AGENCY	
DESIGNER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	82382
SHEET	953
TOTAL	2339



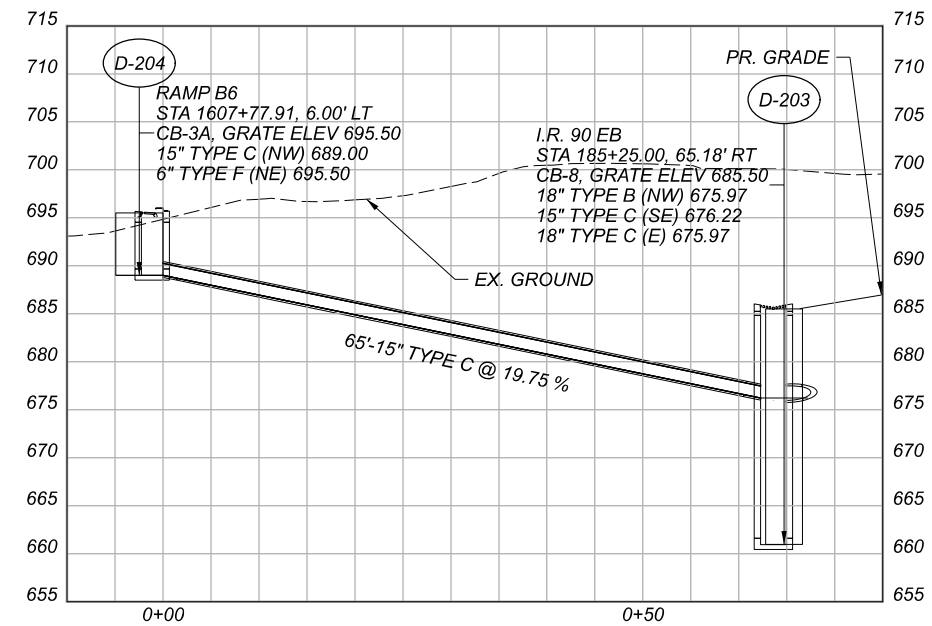
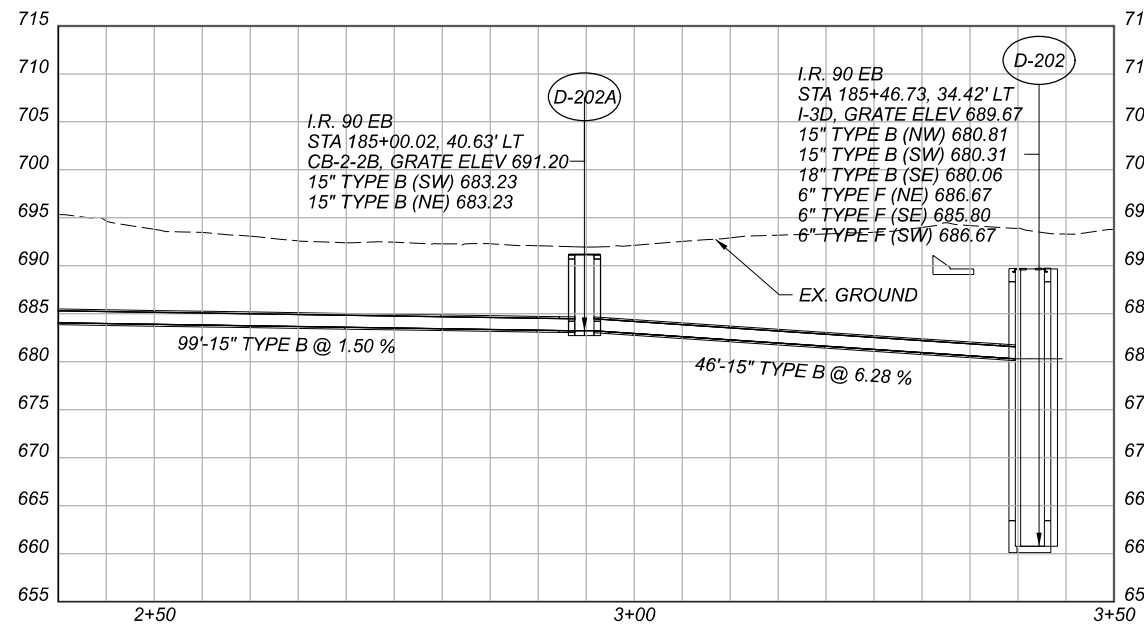
STORM SEWER PROFILES  
 E. 14TH ST.

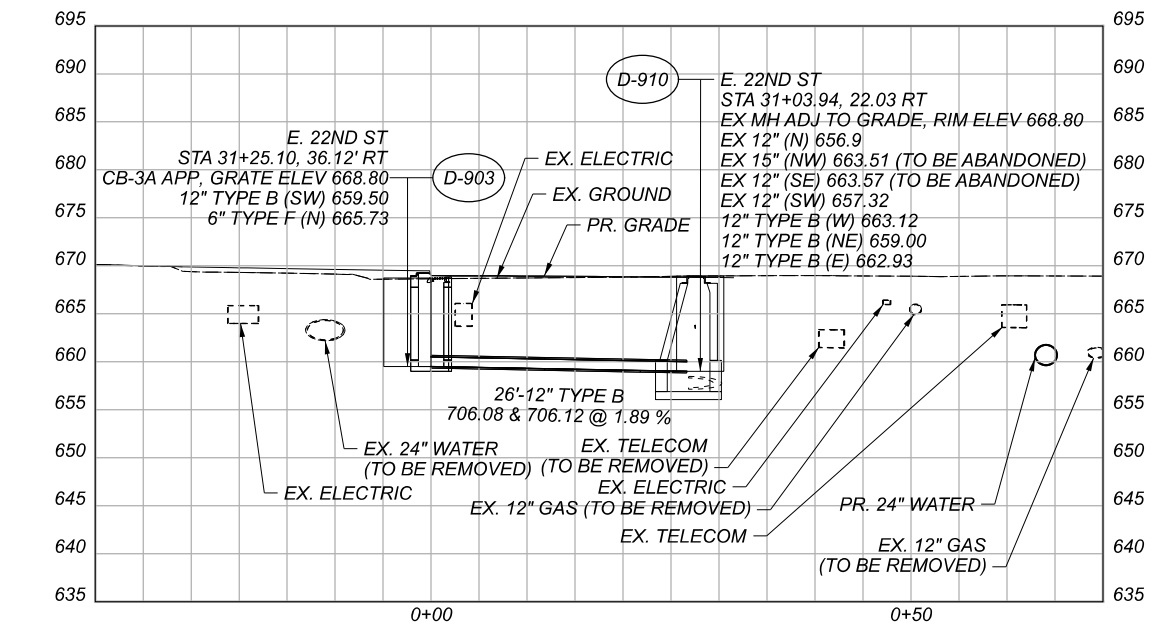
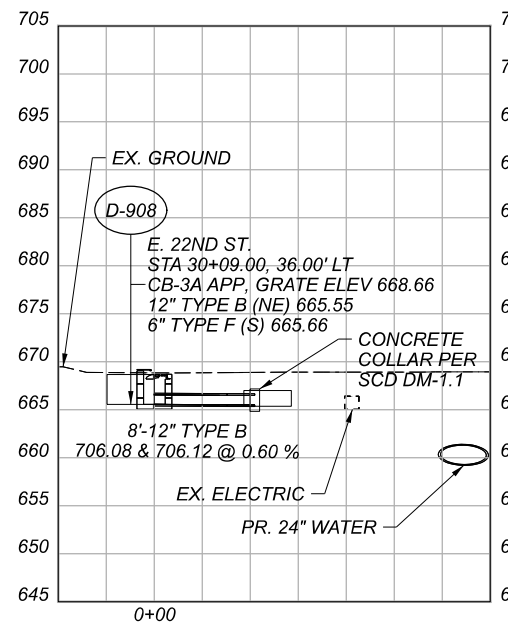
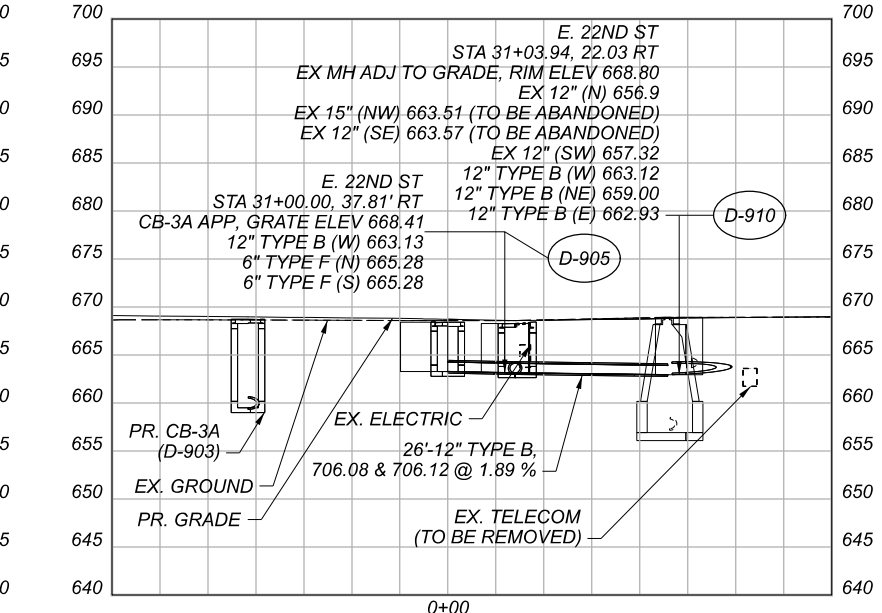
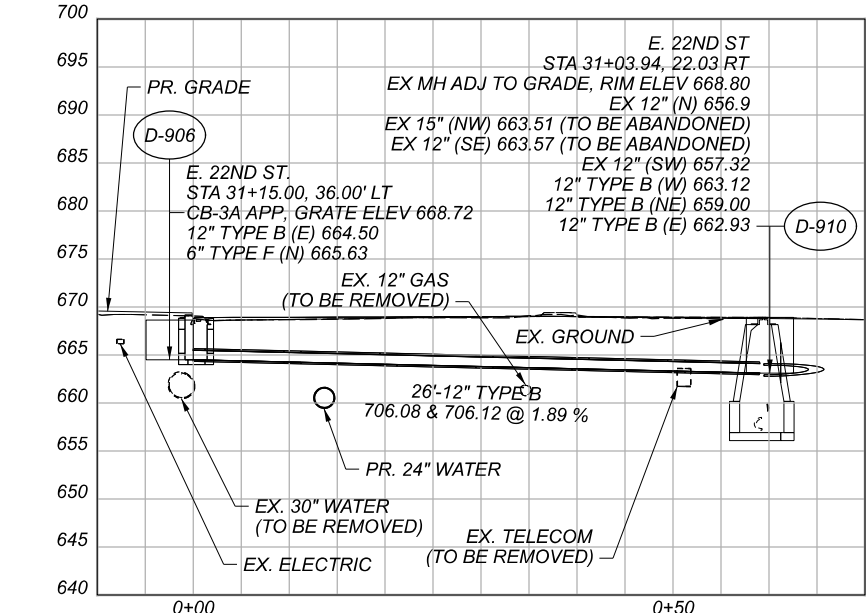
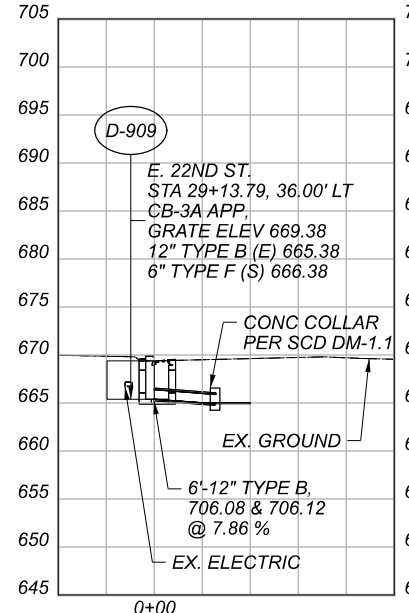
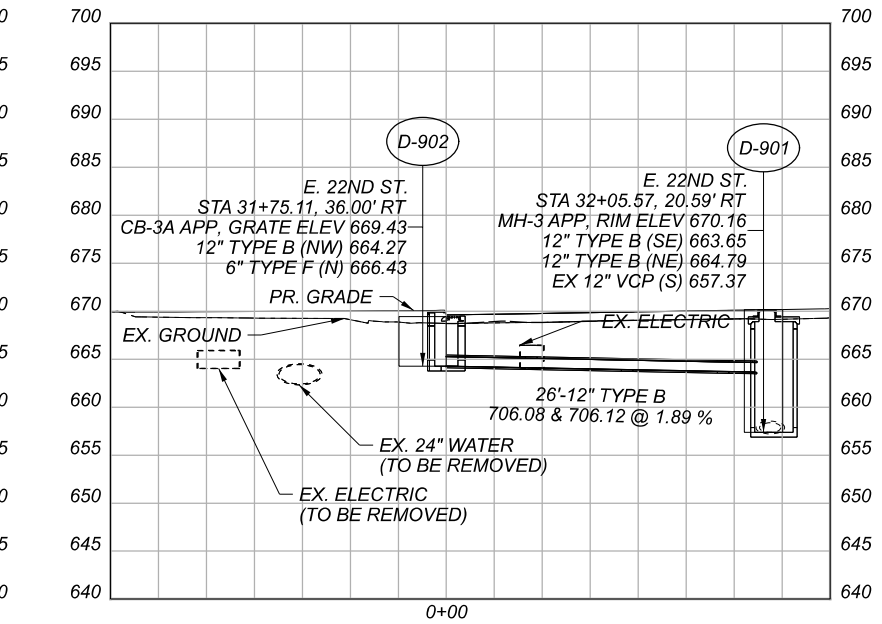
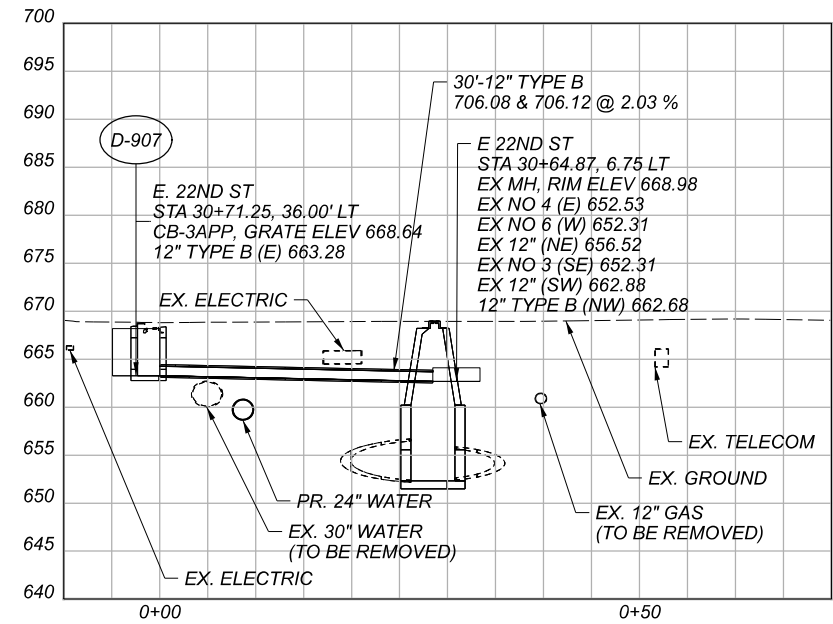
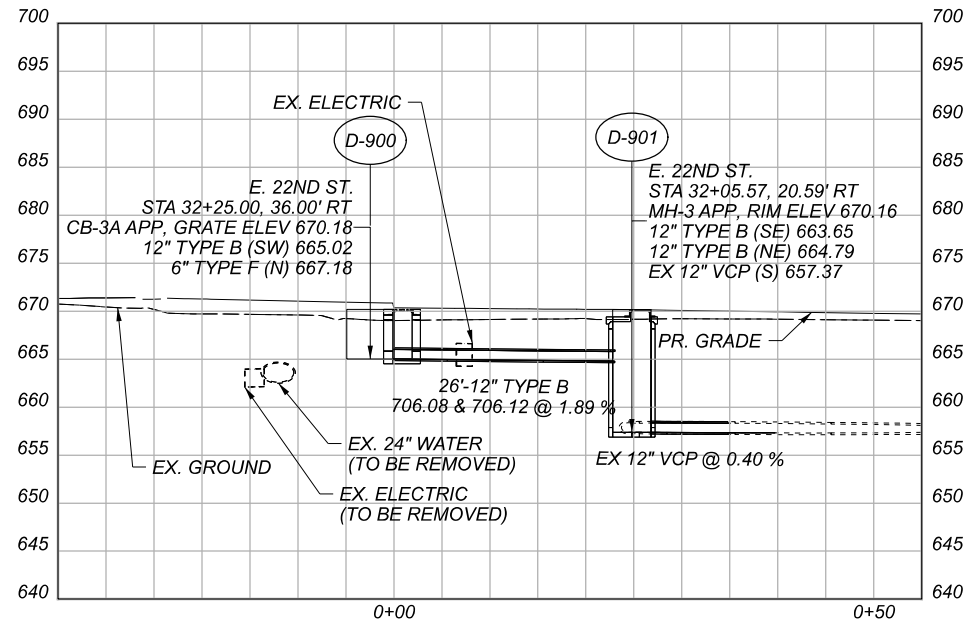
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
REVIEWER	XXX
PROJECT ID	82382
SHEET	954
TOTAL	2339



MATCHLINE A-A  
SEE BELOW

MATCHLINE A-A  
SEE ABOVE

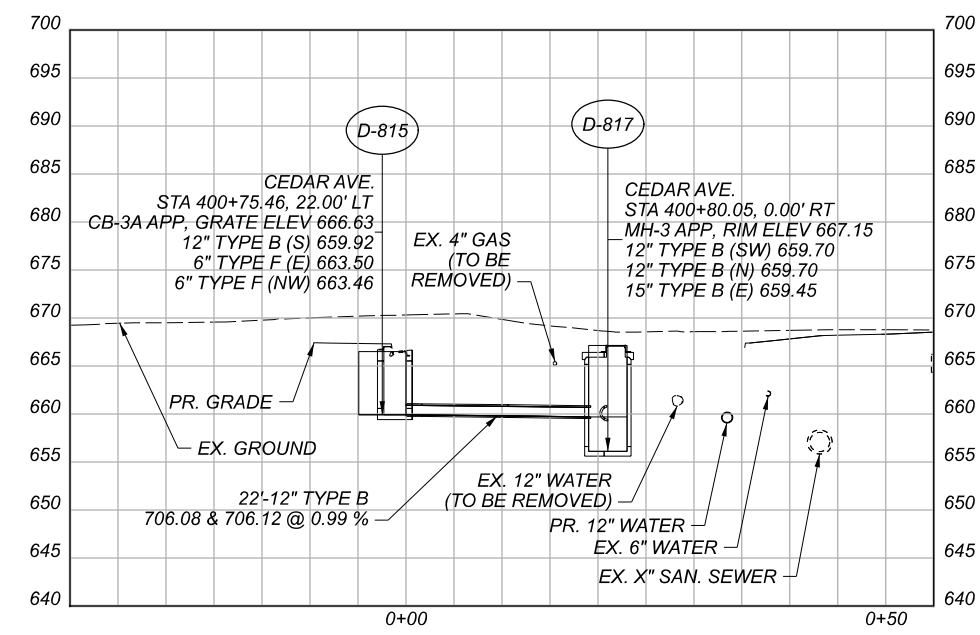
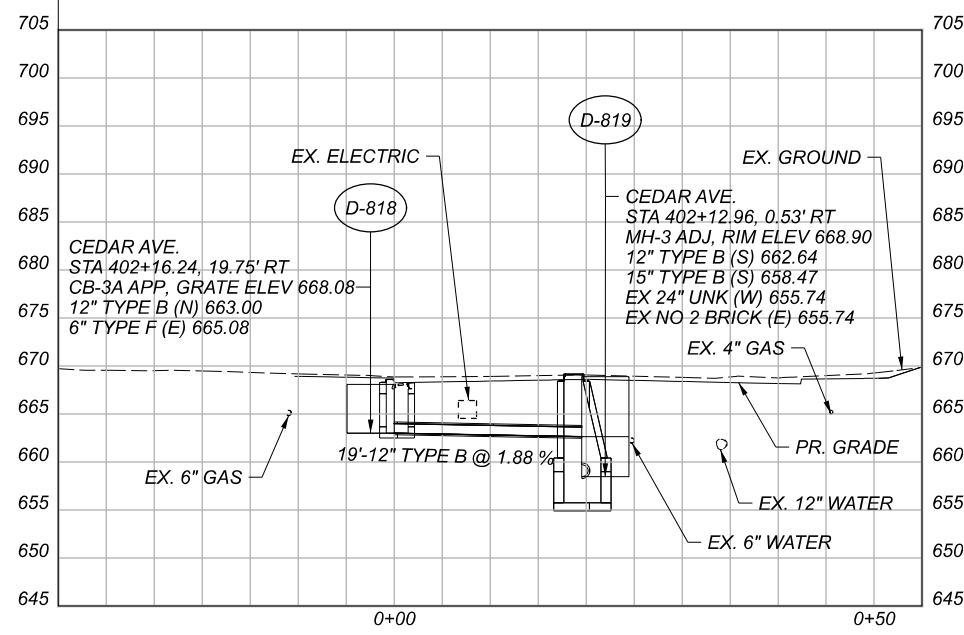
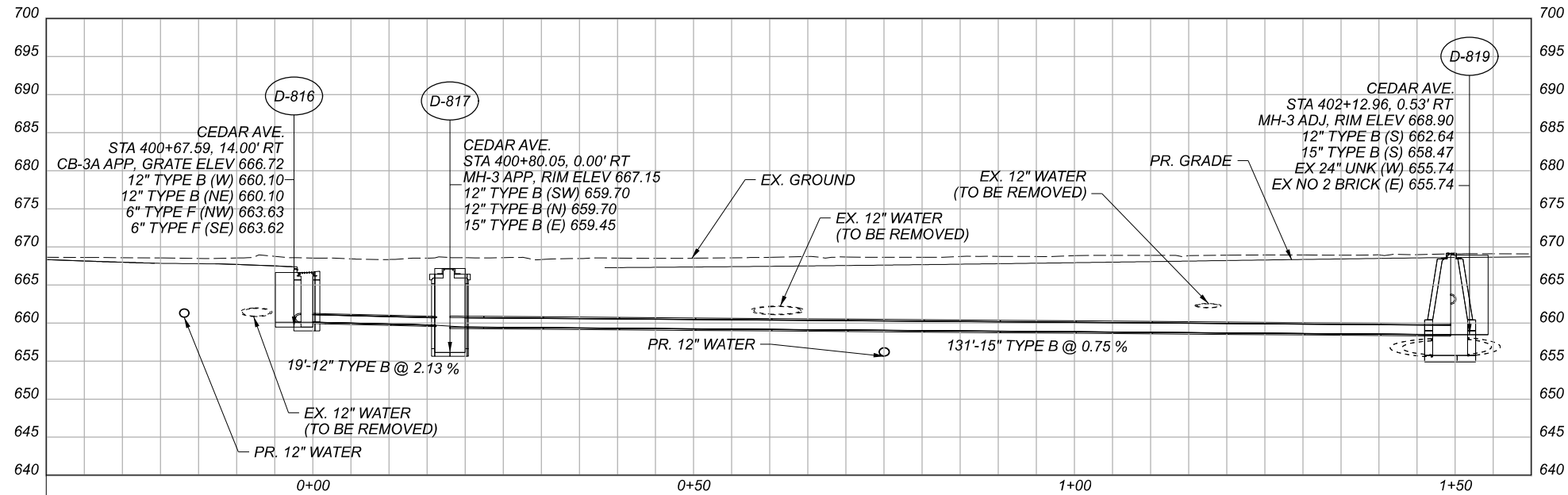




STORM SEWER PROFILES  
 E. 22ND ST. (BETWEEN CENTRAL AVE. & MIDTOWN CONNECTOR)

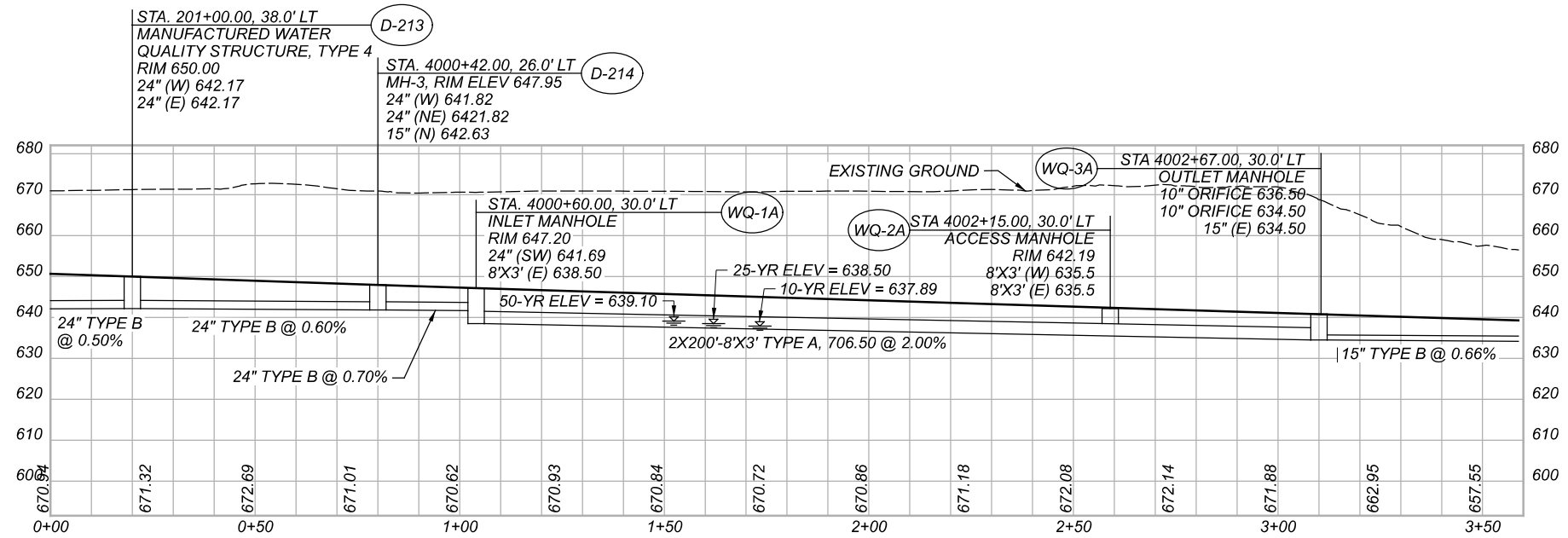
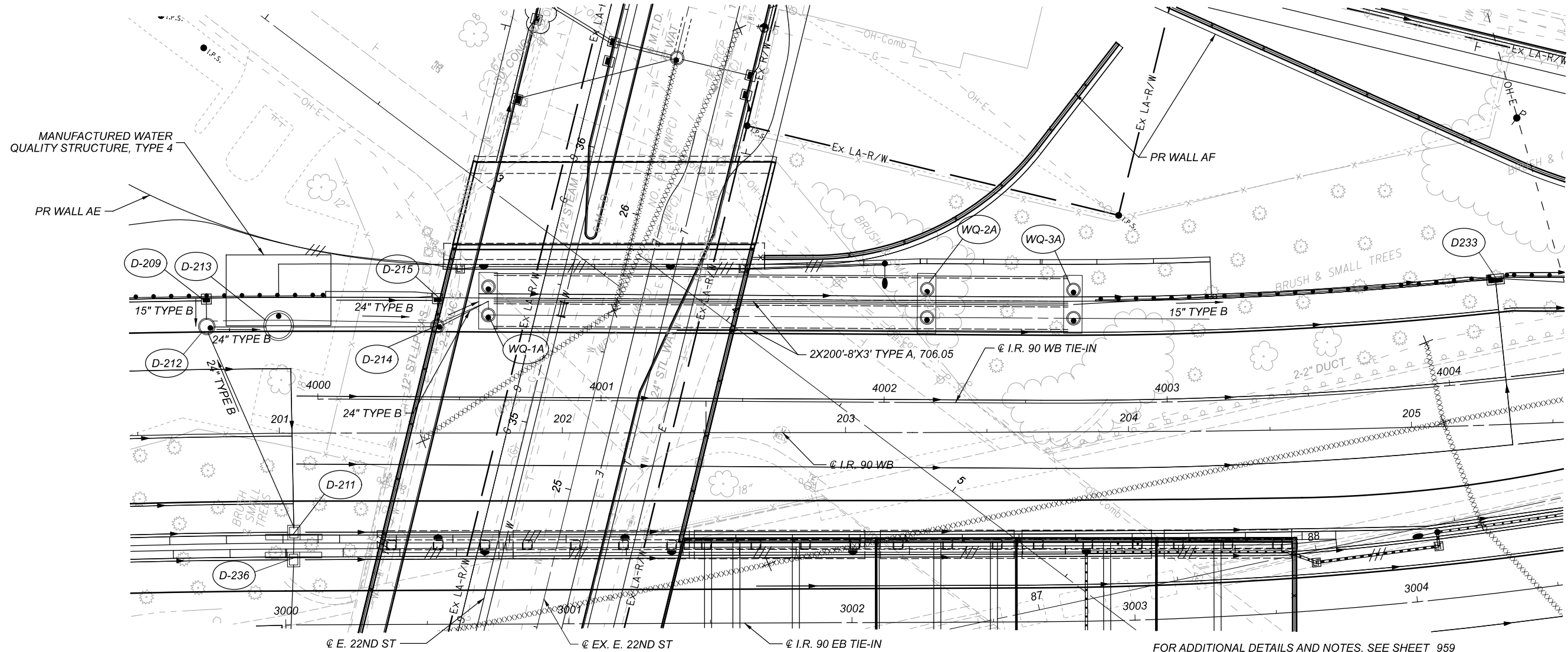
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	—
REVIEWER	—
PROJECT ID	82382
SHEET	956
TOTAL	2339



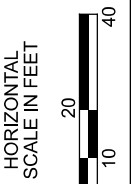


STORM SEWER PROFILES  
 CEDAR AVE.

DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
REVIEWER	XXX
PROJECT ID	82382
SHEET	957
TOTAL	2339

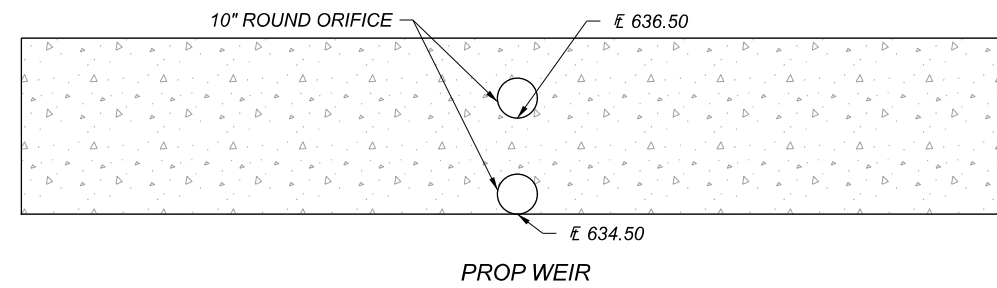
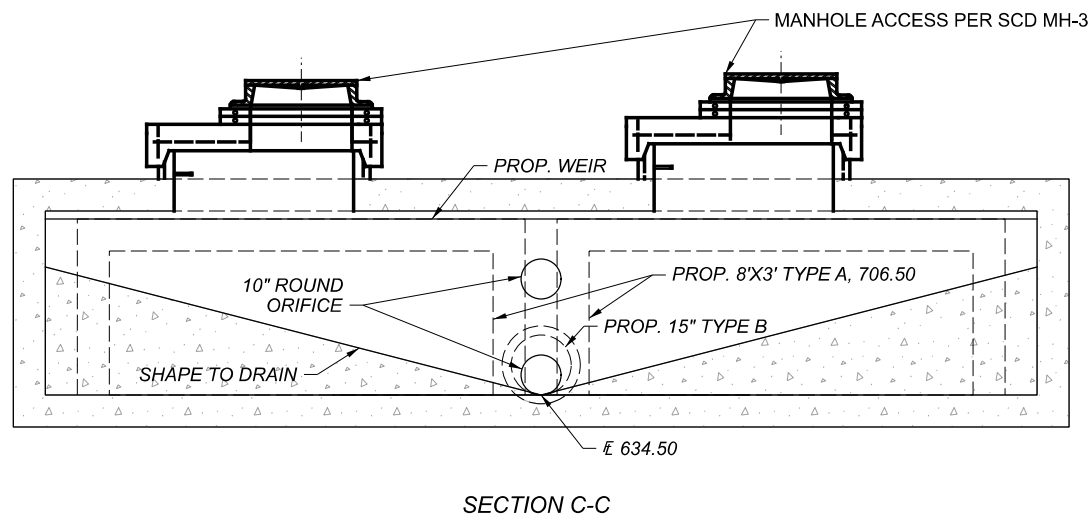
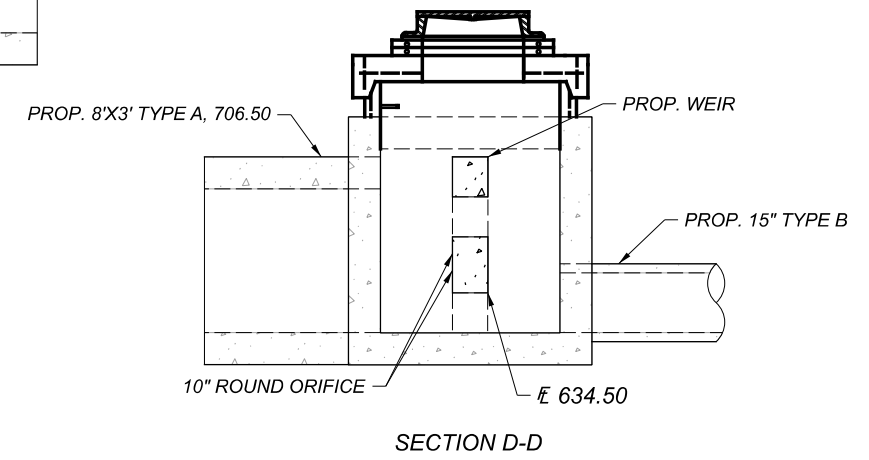
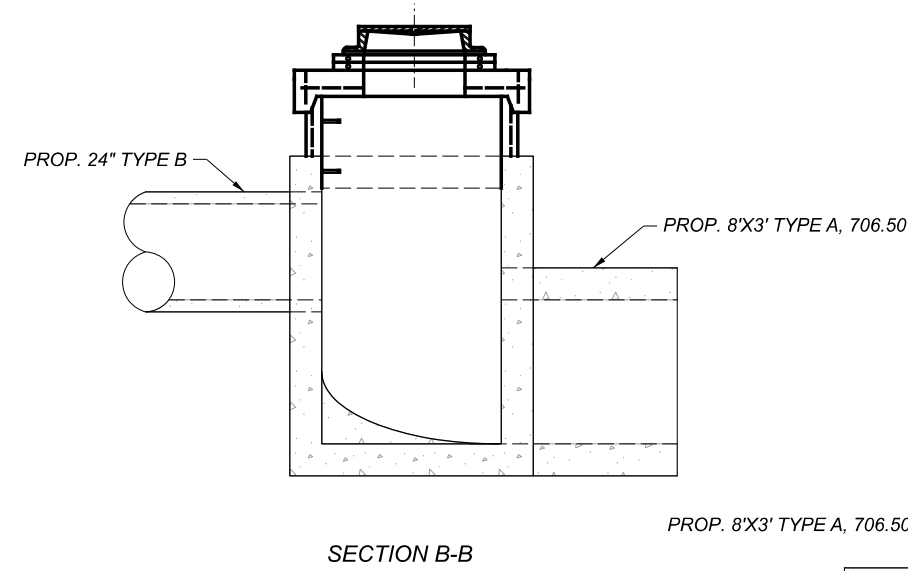
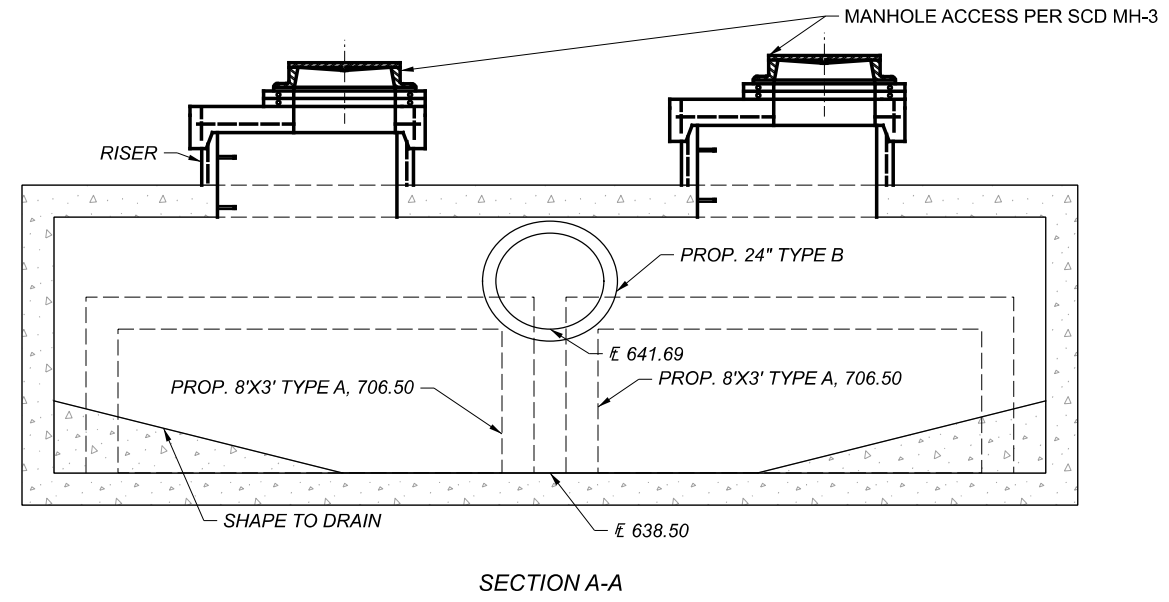
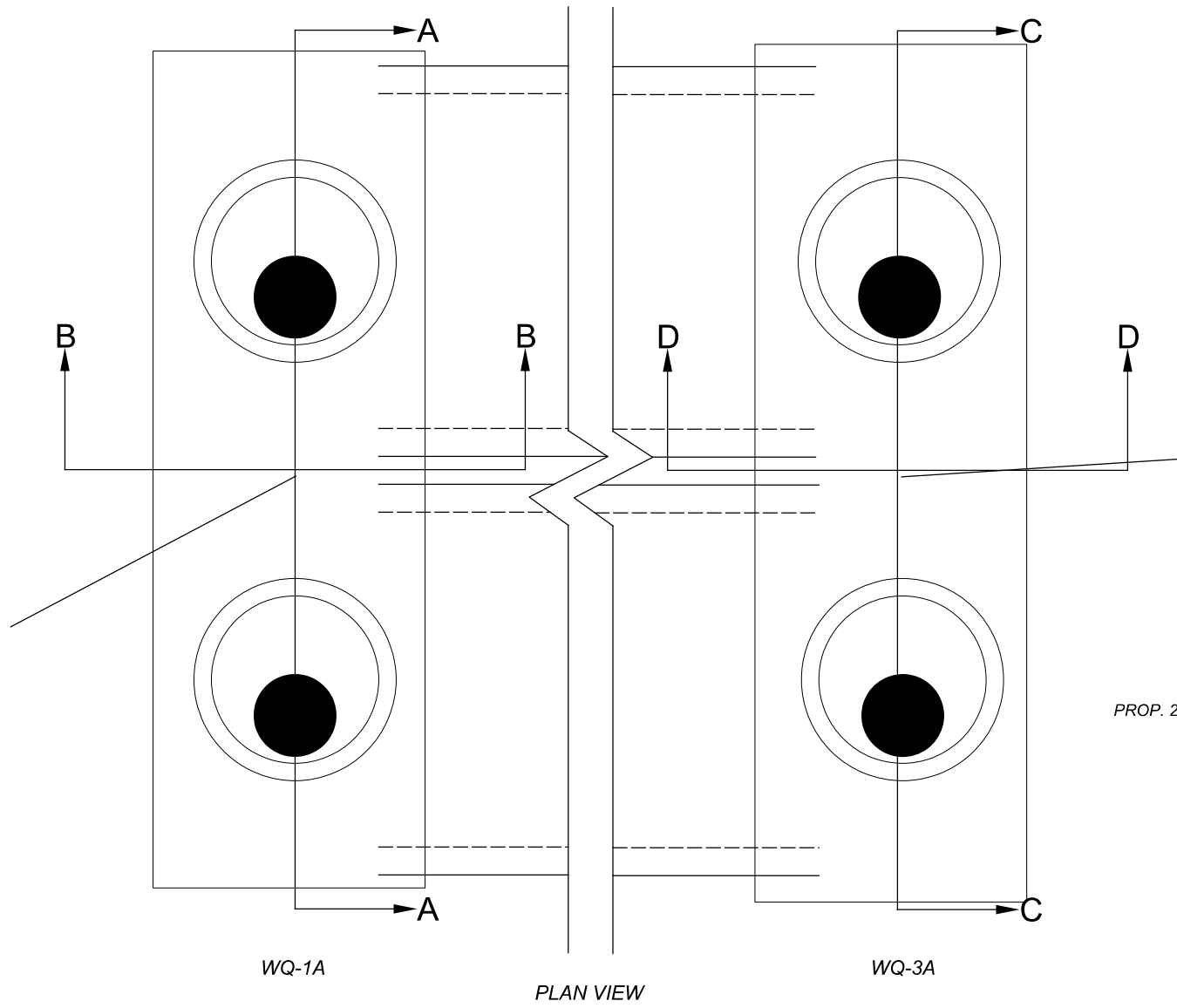


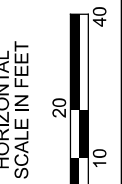
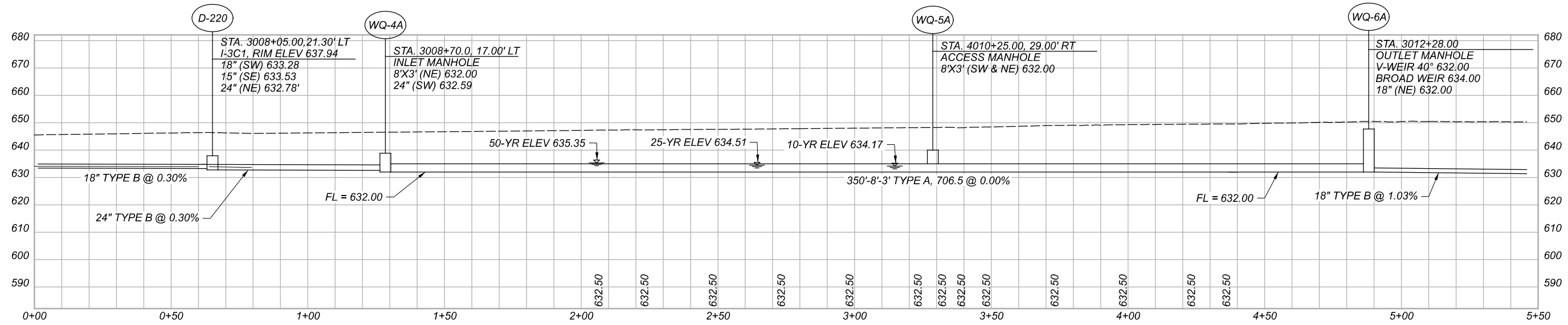
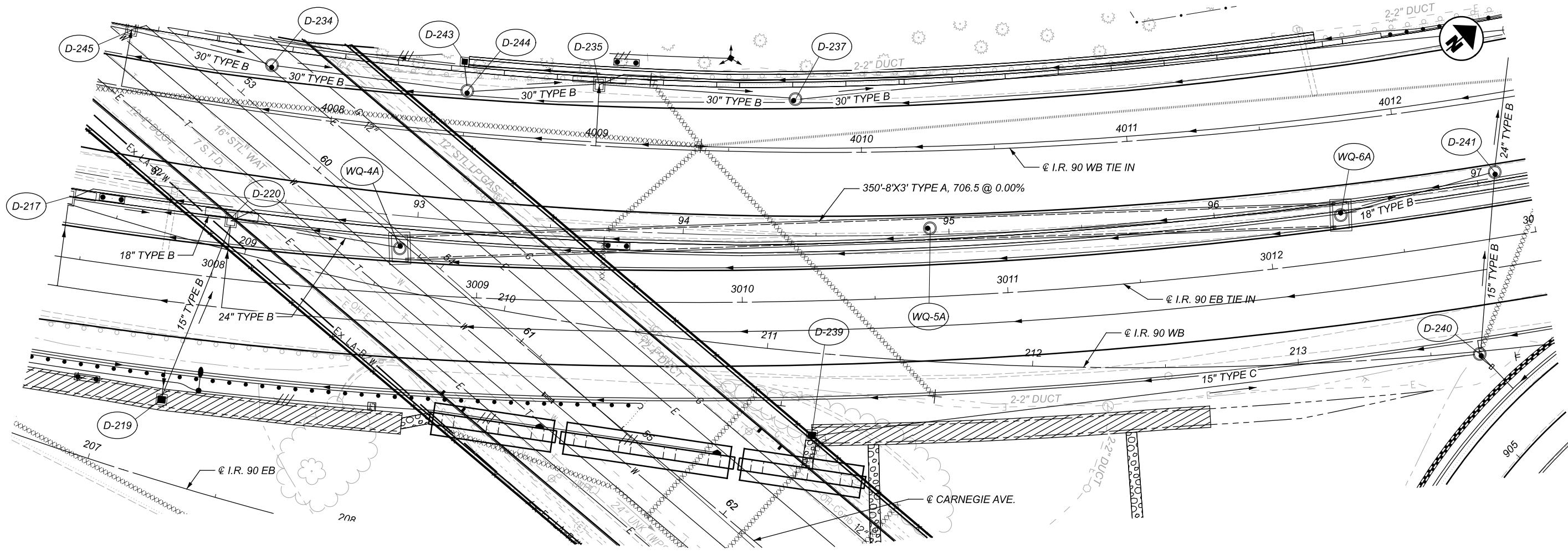
FOR ADDITIONAL DETAILS AND NOTES, SEE SHEET 959



UNDERGROUND DETENTION 1  
 I.R. 90 WB

DESIGN AGENCY	
DESIGNER	
REVIEWER	
PROJECT ID	82382
SHEET	958
TOTAL	2339





UNDERGROUND DETENTION 2  
 I.R. 90 MEDIAN

DESIGN AGENCY

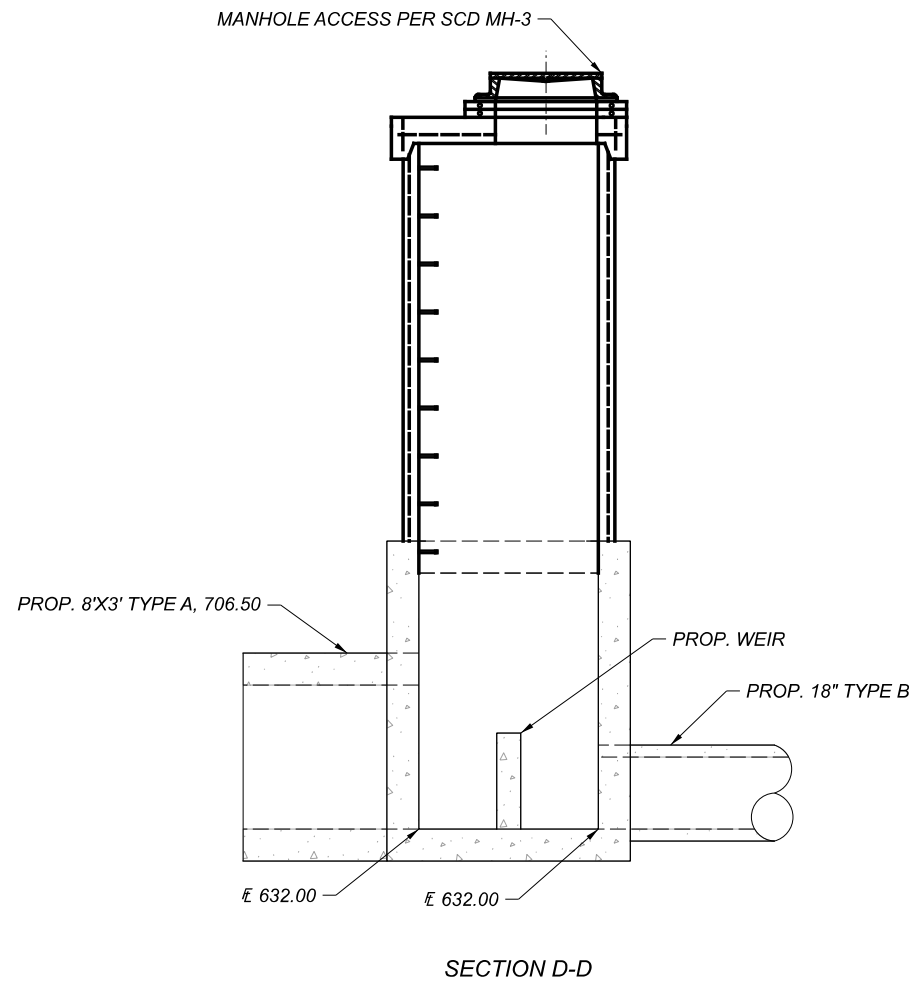
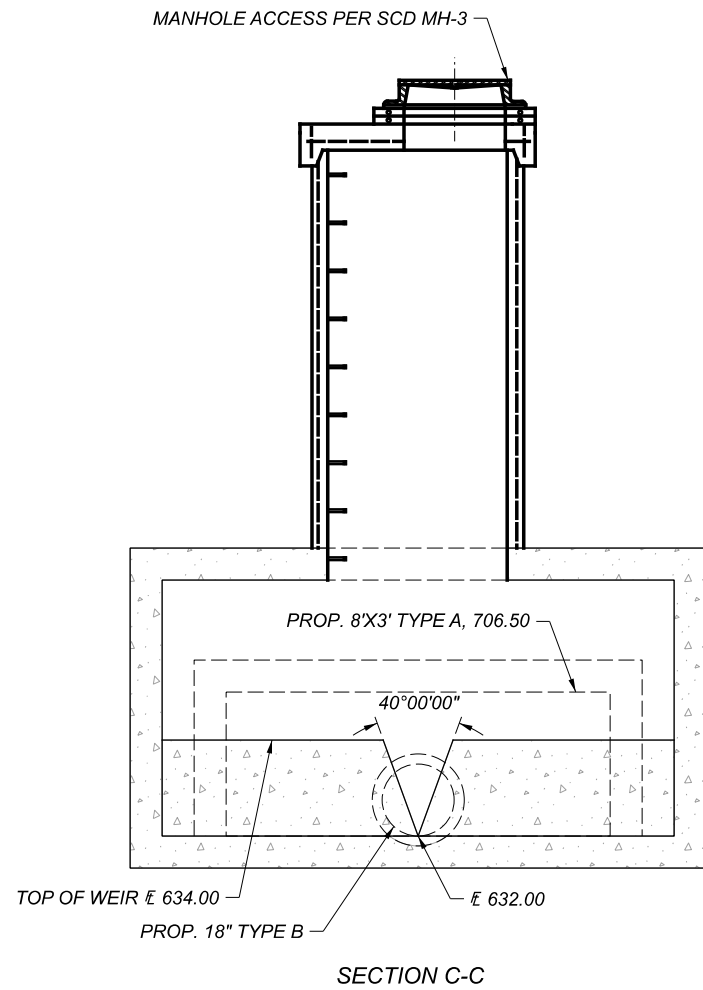
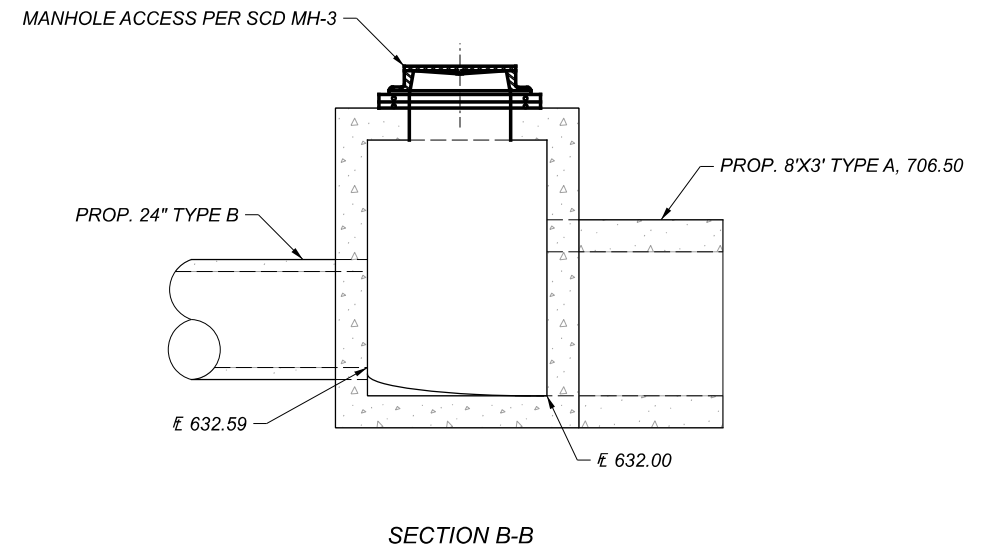
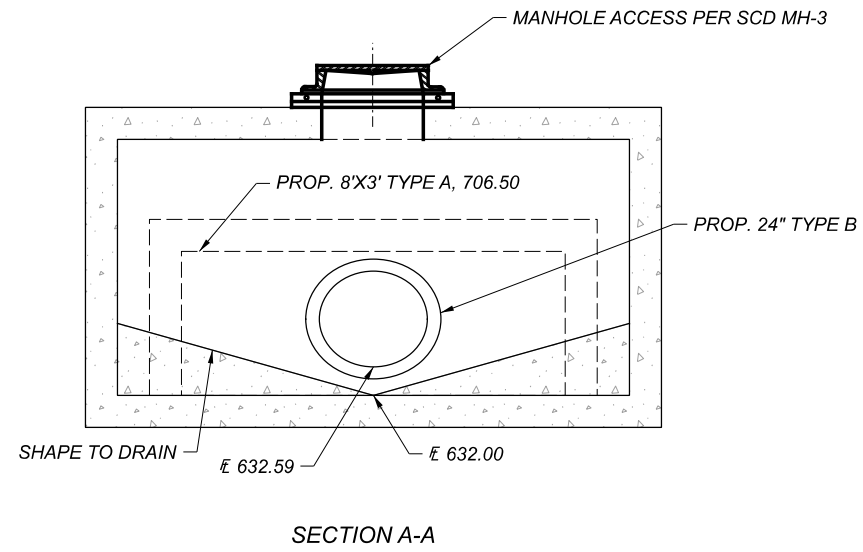
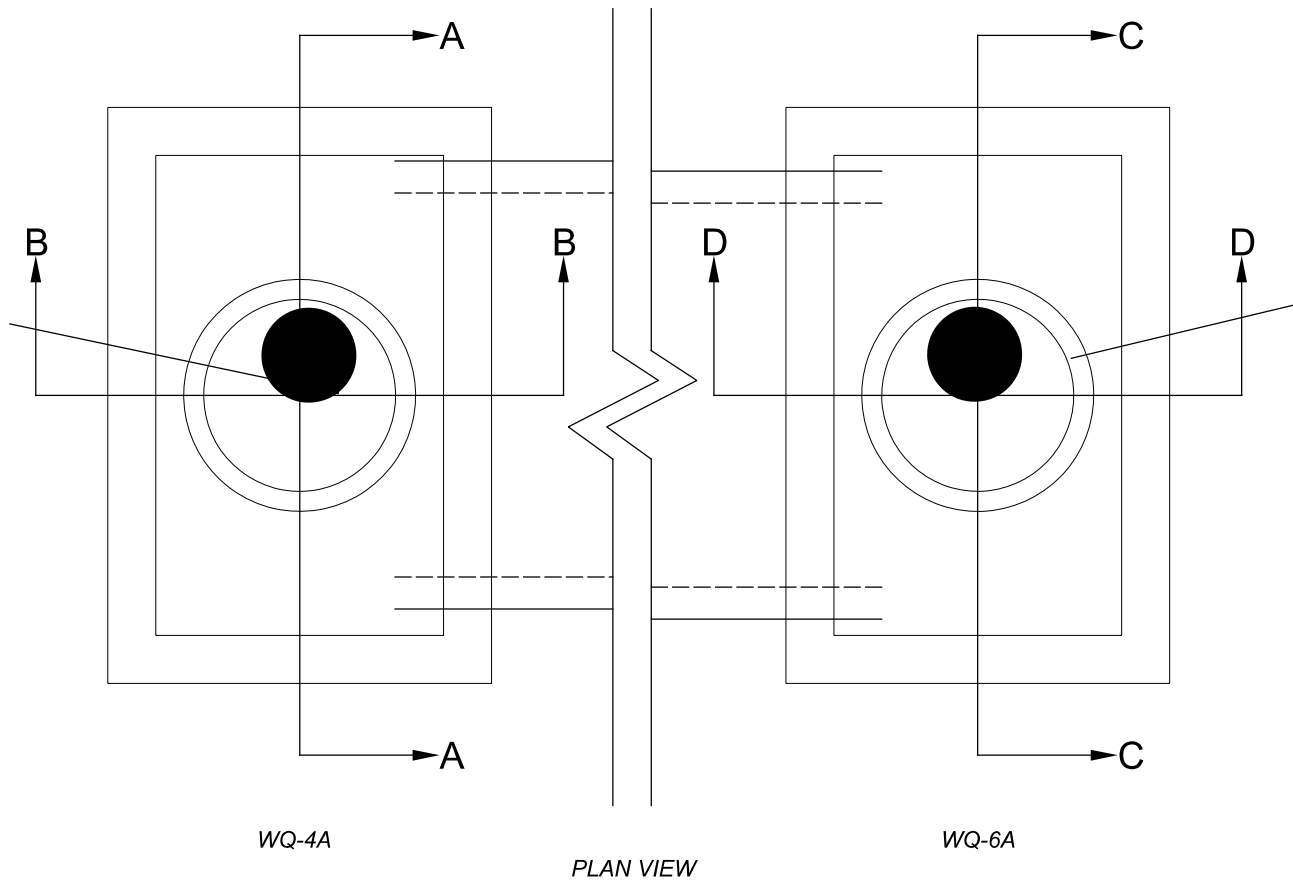
Michael Baker  
 INTERNATIONAL

DESIGNER

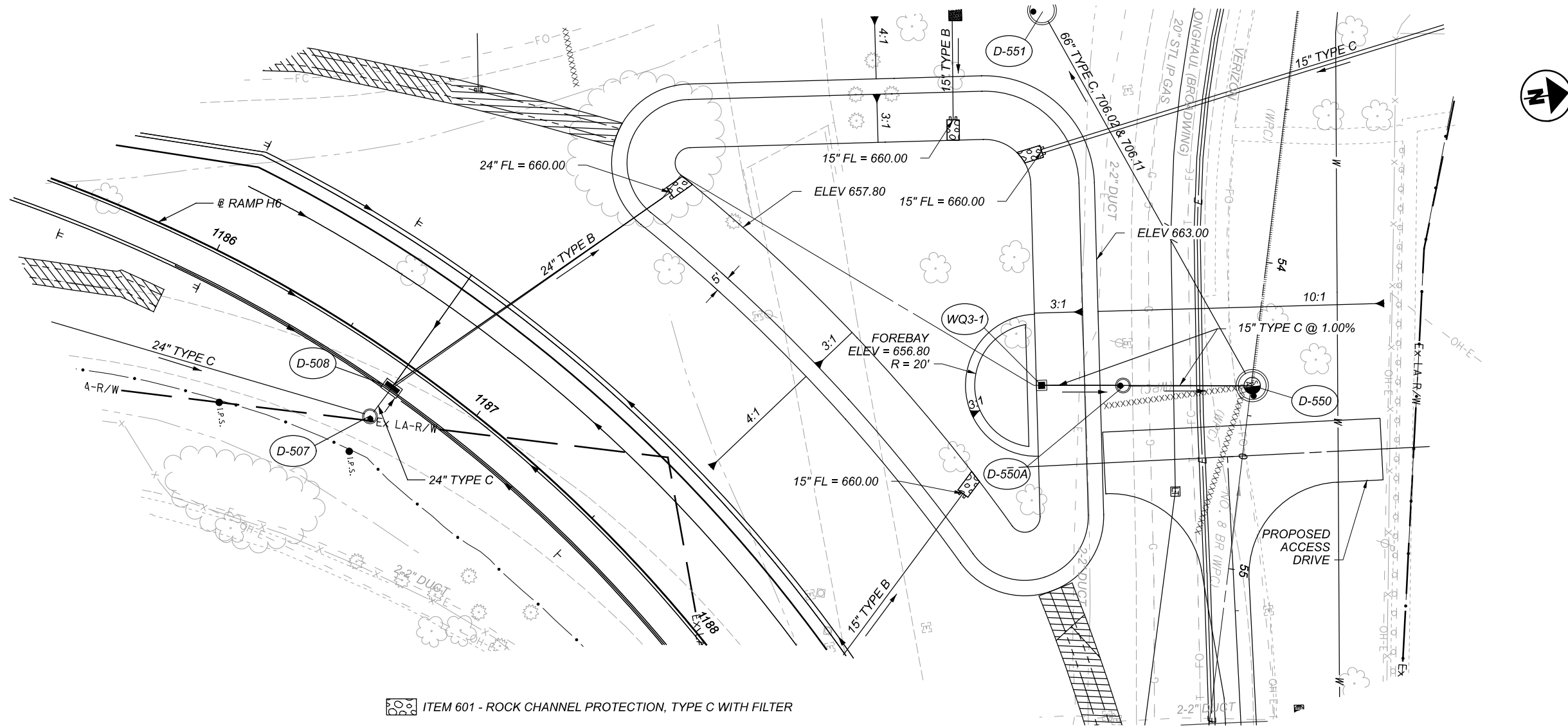
REVIEWER

PROJECT ID  
 82382

SHEET TOTAL  
 960 2339

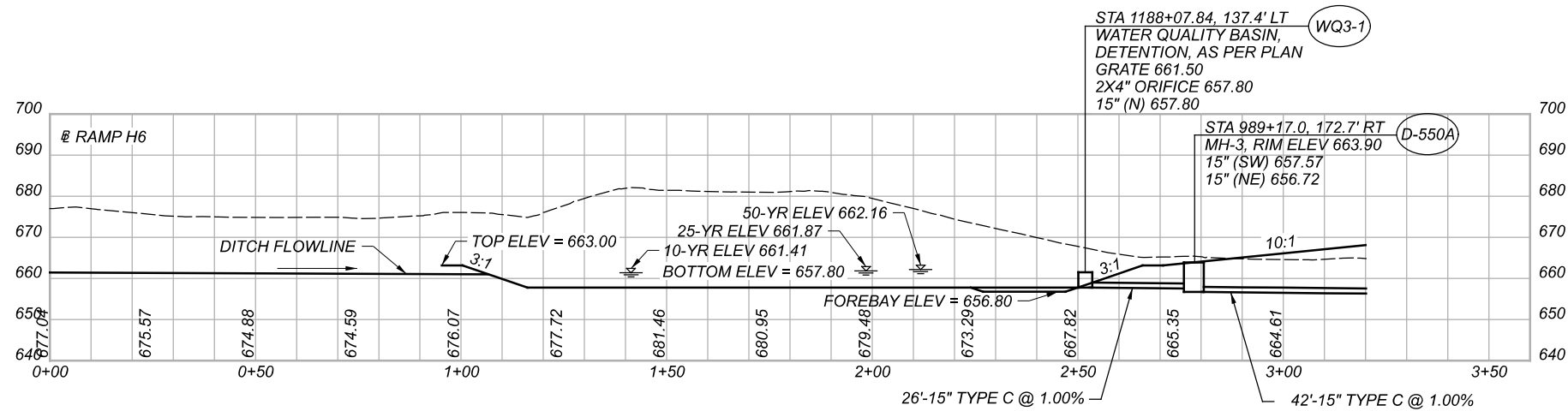


DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	--
REVIEWER	--
PROJECT ID	82382
SHEET	TOTAL
961	2339

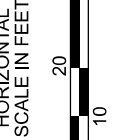


ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER

FOR STORM SEWER PROFILES, SEE SHEETS 922 TO 957



DETENTION 3  
 RAMP H5/H6



DESIGN AGENCY

Michael Baker  
 INTERNATIONAL

DESIGNER

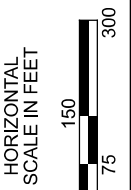
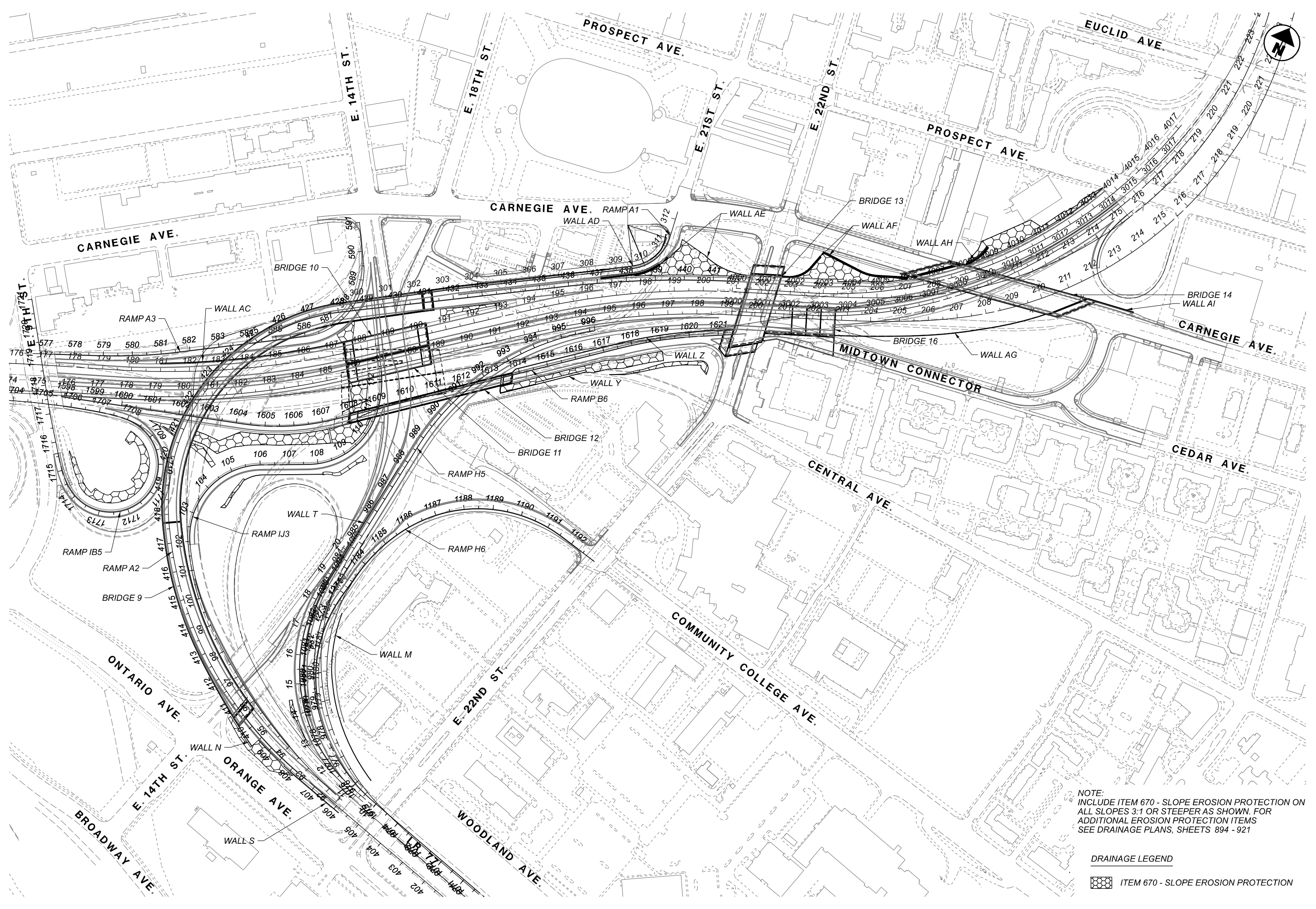
REVIEWER

PROJECT ID

82382

SHEET TOTAL

962 2339



**DRAINAGE DETAILS  
SLOPE EROSION PROTECTION**

NOTE:  
INCLUDE ITEM 670 - SLOPE EROSION PROTECTION ON ALL SLOPES 3:1 OR STEEPER AS SHOWN. FOR ADDITIONAL EROSION PROTECTION ITEMS SEE DRAINAGE PLANS, SHEETS 894 - 921

**DRAINAGE LEGEND**

 ITEM 670 - SLOPE EROSION PROTECTION

DESIGN AGENCY

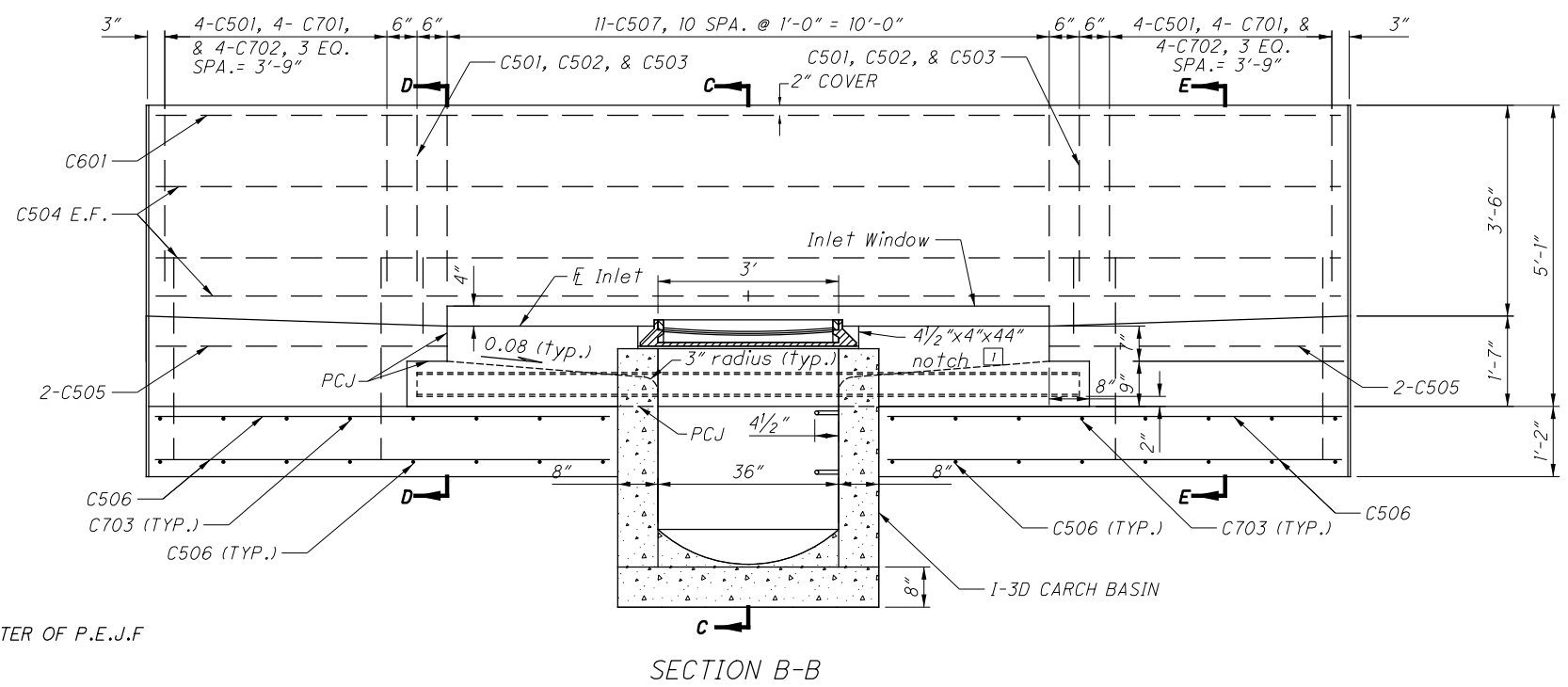
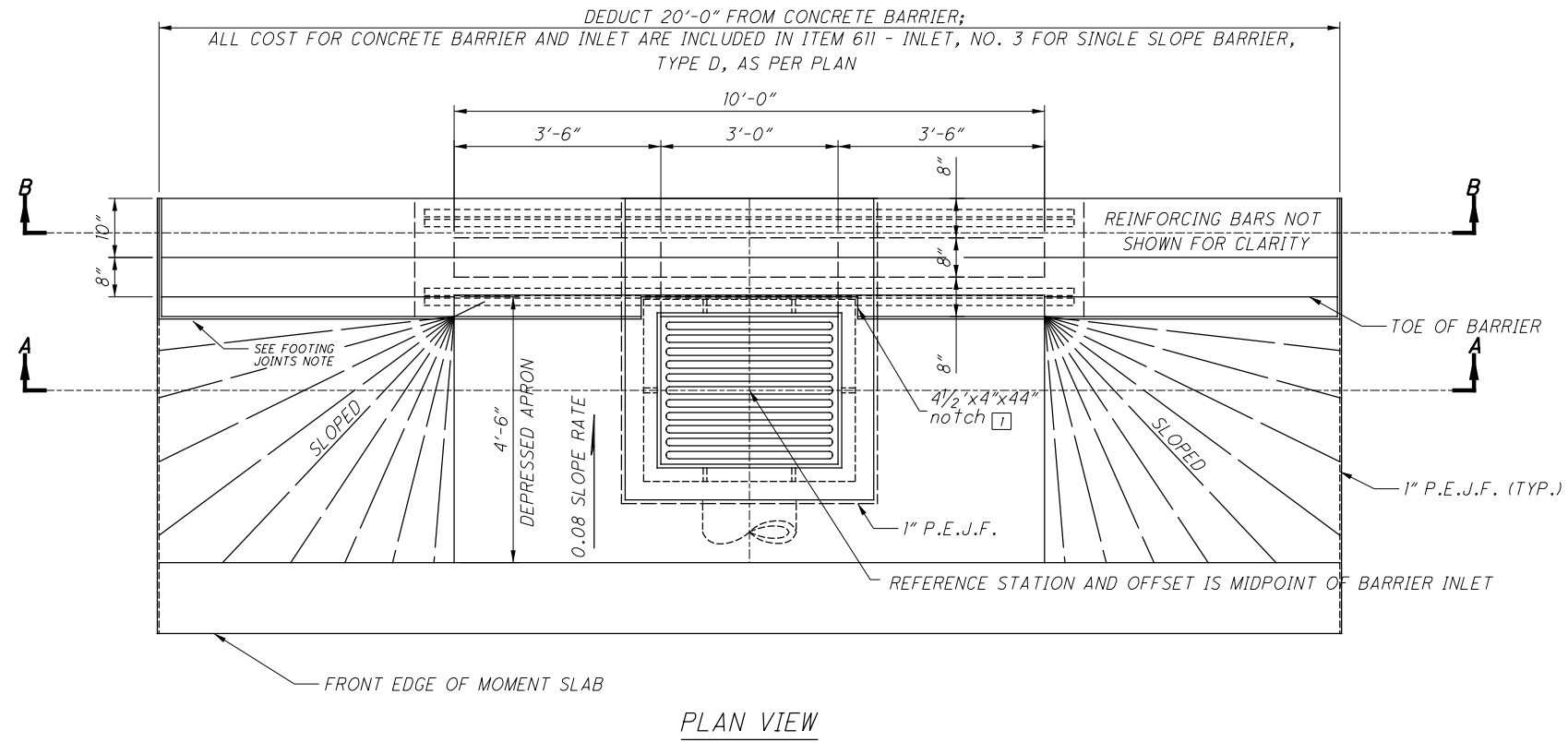
**Michael Baker  
INTERNATIONAL**

DESIGNER  
XXX

REVIEWER  
XXX MM-DD-YY

PROJECT ID  
82382

SHEET	TOTAL
963	2339



LEGENDS

\* - DIMENSION TO CENTER OF P.E.J.F

NOTES

1. SEE ROADWAY STD. DWG. I-3D FOR ADDITIONAL NOTES AND DETAILS
2. SEE ROADWAY GENERAL NOTES FOR PAYMENT.
3. SEE REINFORCING TABLE ON SH. 22/22

DESIGN AGENCY

Michael Baker INTERNATIONAL

DESIGNER

REVIEWER

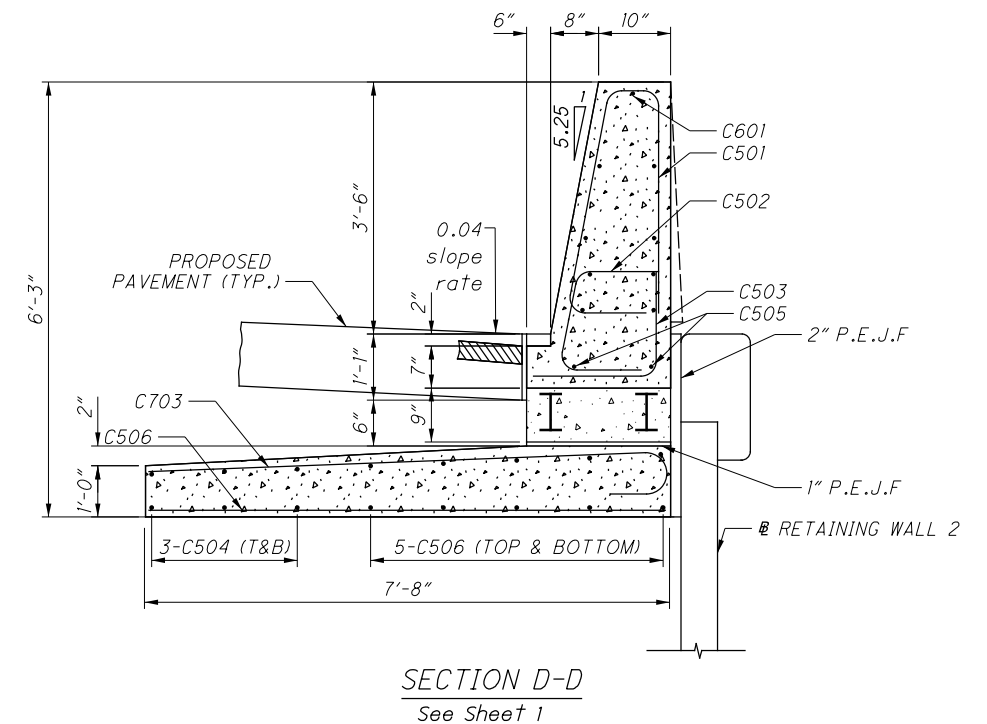
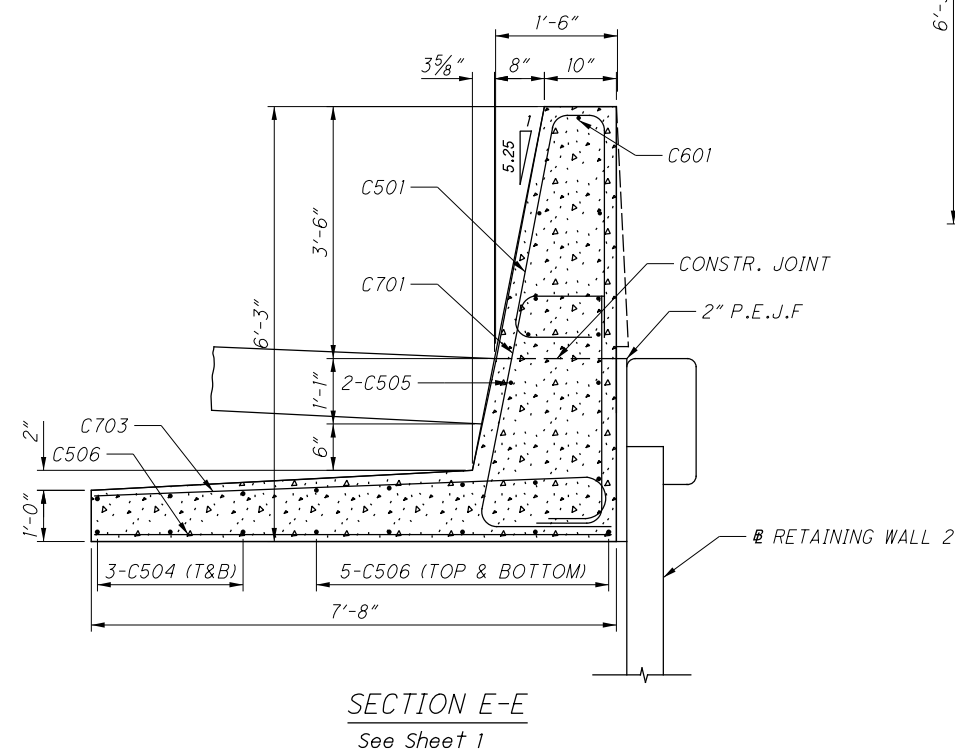
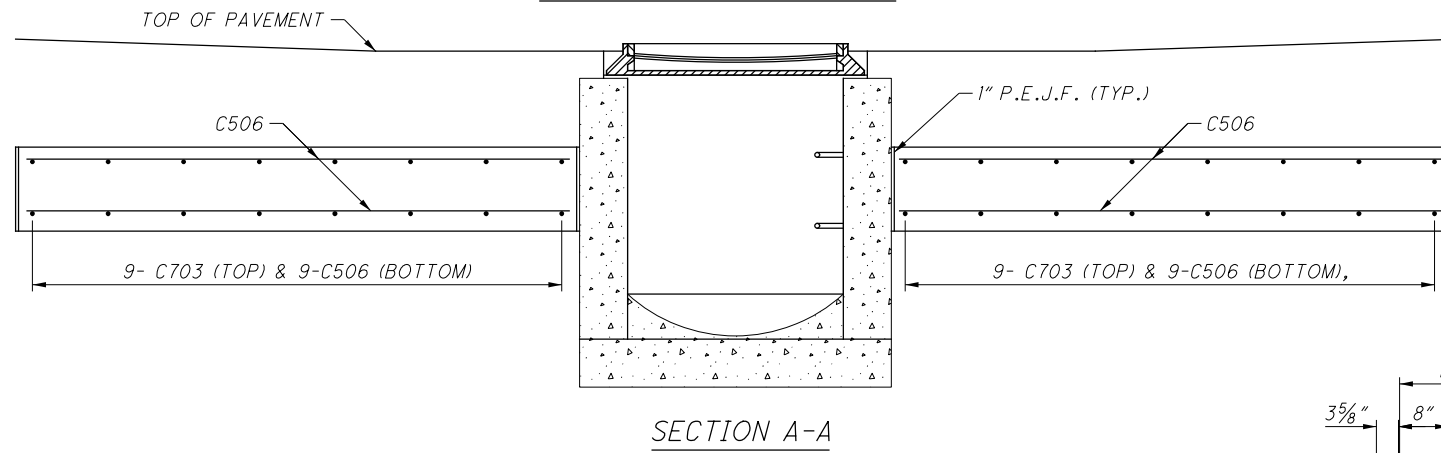
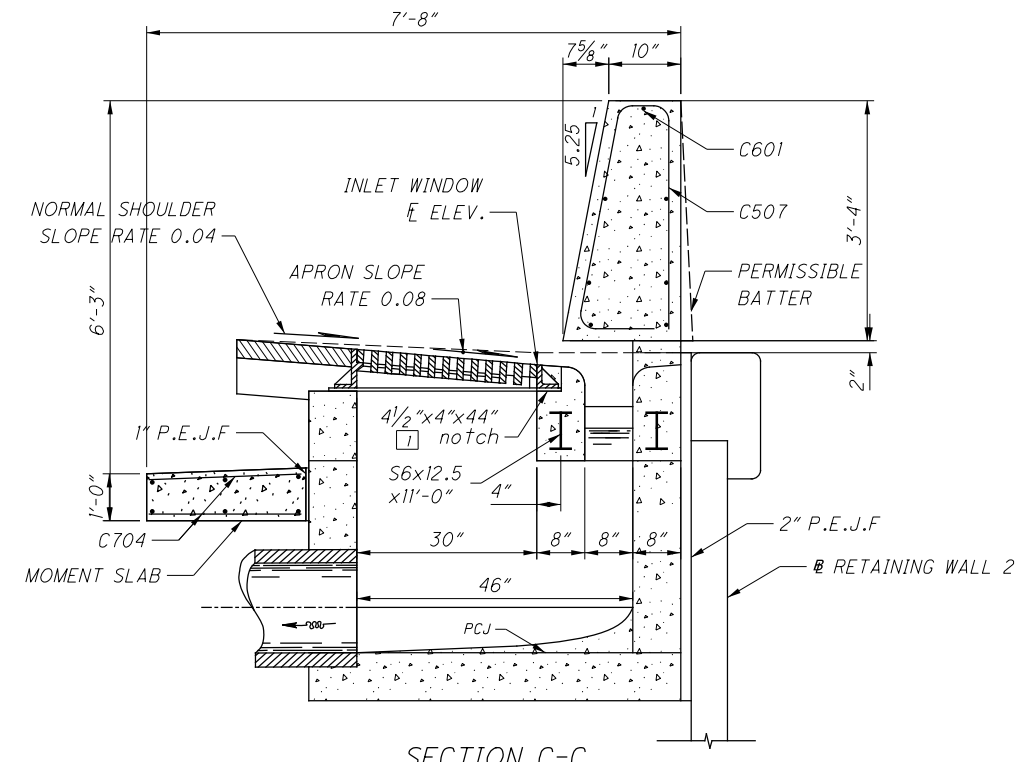
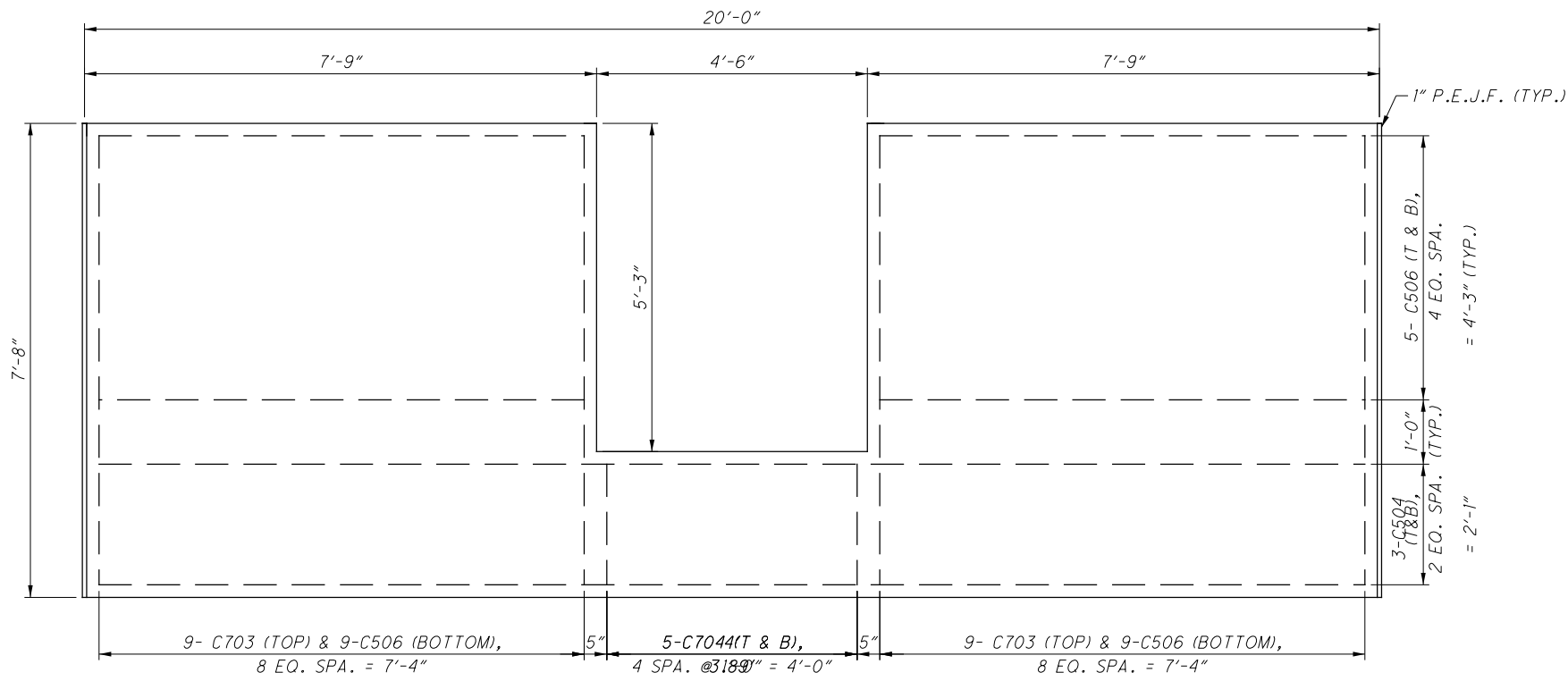
PROJECT ID

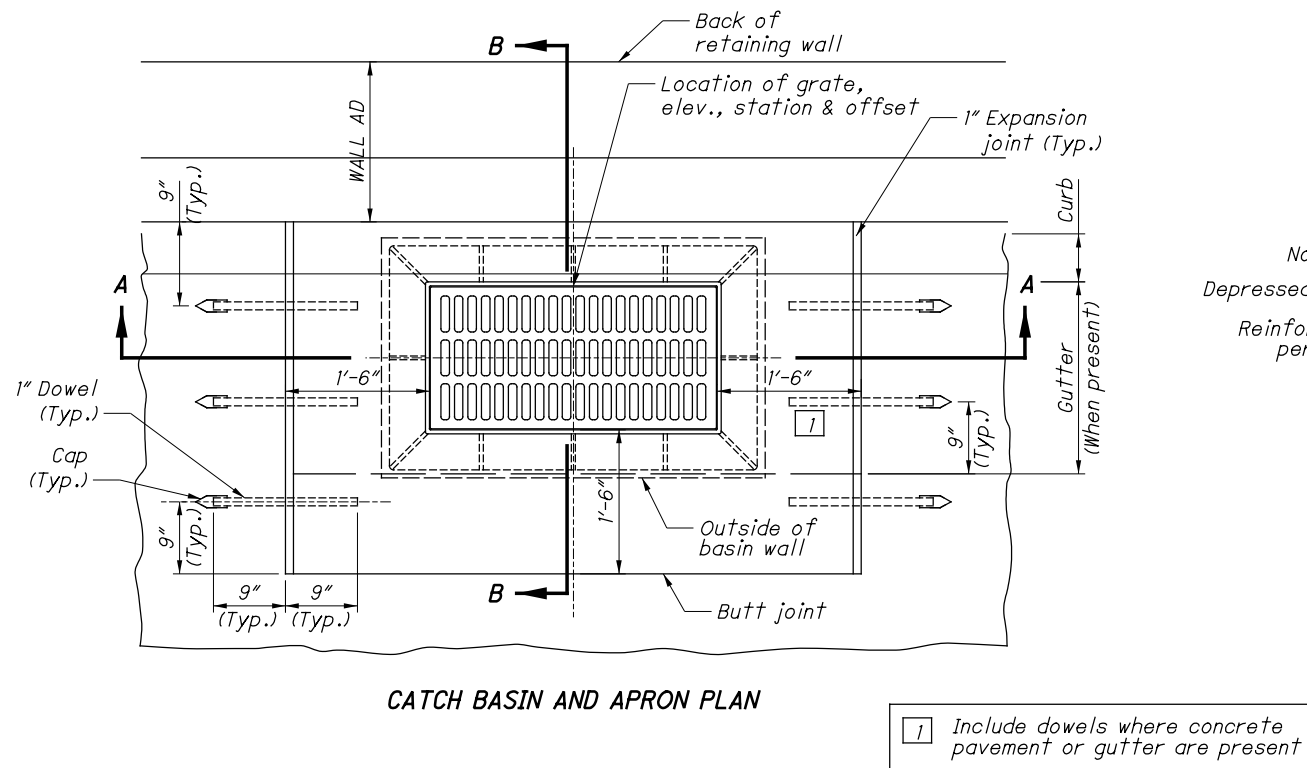
82382

SHEET TOTAL

964 2339

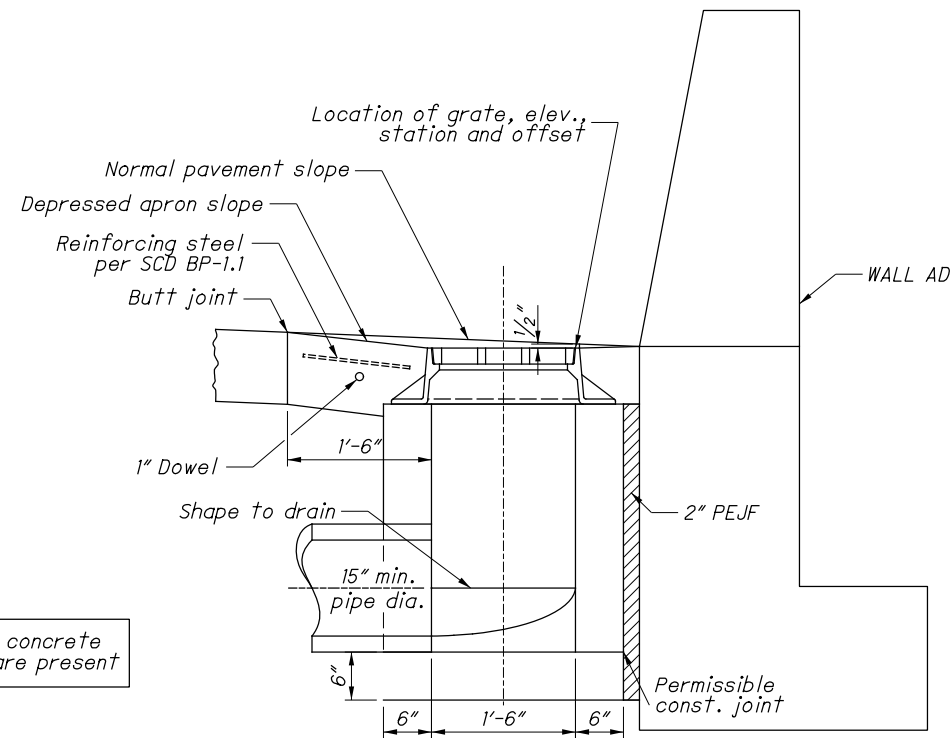




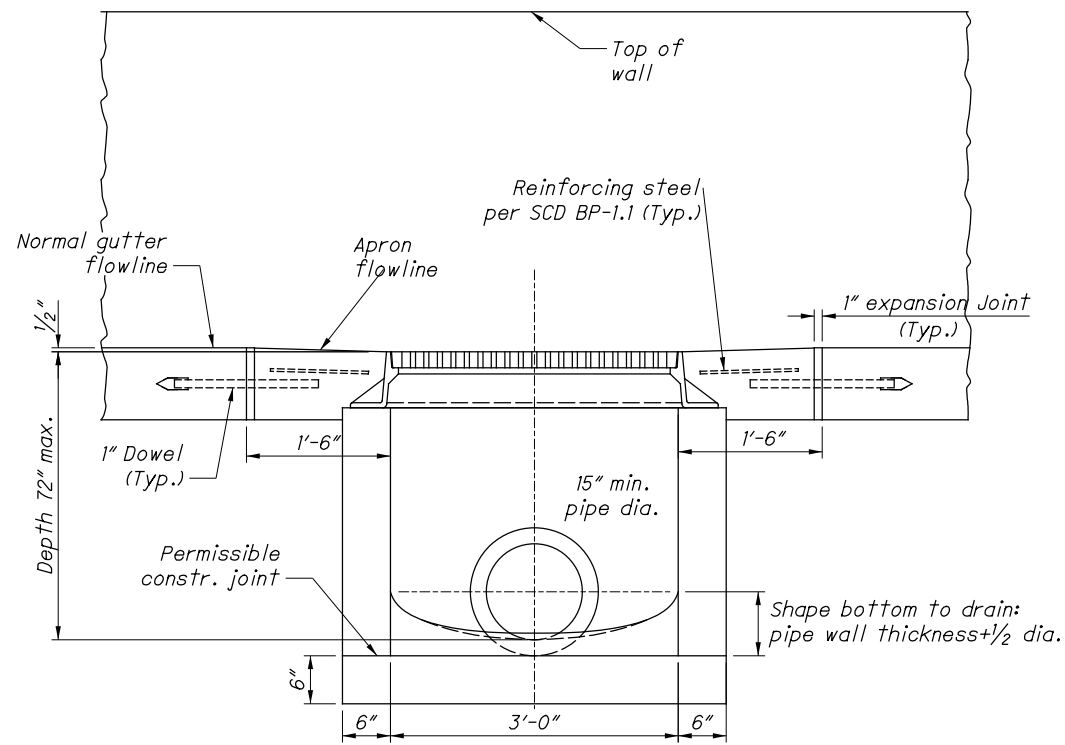


CATCH BASIN AND APRON PLAN

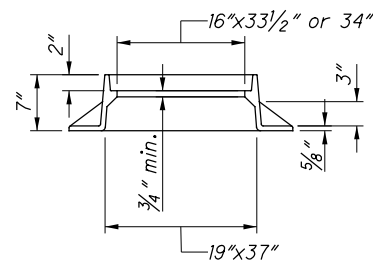
1 Include dowels where concrete pavement or gutter are present



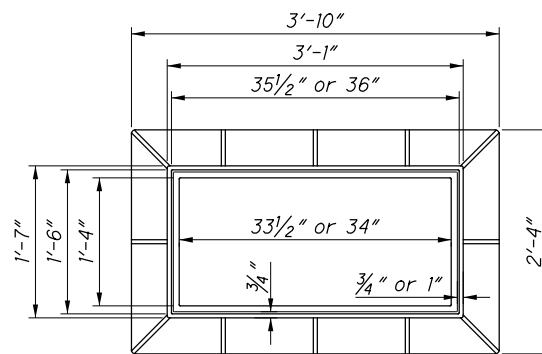
SECTION B-B  
W/O GUTTER



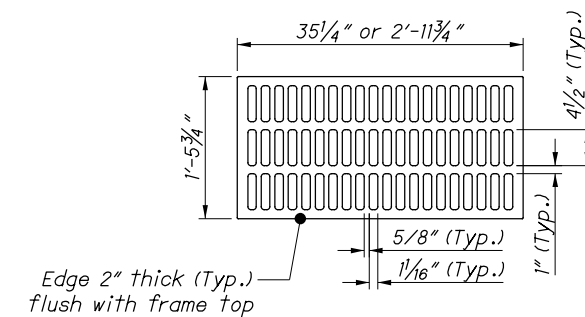
SECTION A-A



FRAME SECTION



FRAME PLAN



GRATE

NOTES

**GRATE AND FRAME:** Provide a design essentially the same and equally as strong as the one shown (see construction information table), or meet the requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans. When a "v" grate is specified provide Neenah No. R-3067-V or EJ No. 7030 Type M4 or approved equals.

Cast the following text into the top of the grate:

**"DUMP NO WASTE" and "DRAINS TO WATERWAYS"**

Print text in bold, capital letters at least 1/2" high. "WATERWAYS" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary by manufacturer.

**BEARING AREAS:** Fit and finish the frame and grate to provide a firm and even seat for all portions of the grate in the frame without rocking. Fit, match and mark frame and grate before delivery to the project.

**WALLS:** Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and handling without damage. Construct cast-in-place walls with a nominal thickness of 8". Maintain internal basin dimensions.

**CONCRETE:** Meet the requirements of CMS 706.13 for precast concrete and mark with the catch basin number. Use 4000 psi concrete for cast-in-place basins.

**MINIMUM DEPTH:** The minimum depth is the outside diameter (O.D.) of the outlet pipe plus 15".

**OPENINGS:** Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per C&MS 611.

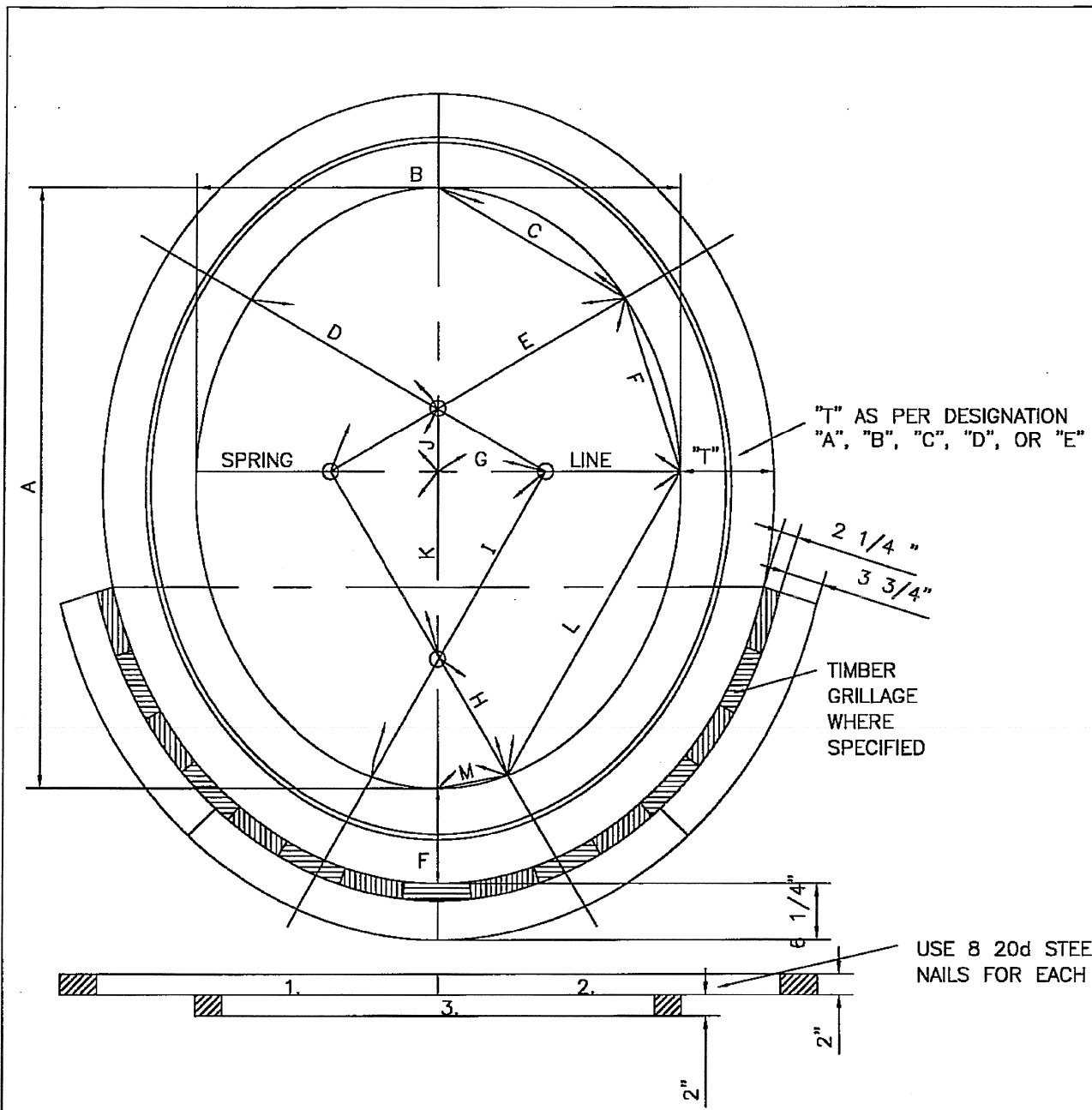
**DOWELS:** Furnish 1"x18" dowels for concrete pavement and gutters. See SCD BP-2.2 for dowel details.

**BLOCKOUT APRONS:** Blockout curb and gutter (when present) for catch basin. In PCC pavement provide a 4000 psi compressive strength concrete apron with dowels. The cost is included as part of the pavement or gutter quantities because of the castings. In asphalt pavement provide a 4000 psi compressive strength concrete apron with dowels into gutter (when present). No dowels are required between the apron and asphalt pavement. The cost is included in the catch basin bid price. Include 1" expansion joints in the curb for all curb types with no deduction made in curb quantities.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under **Item 611 - Catch Basin, No. 6, As Per Plan.**

CONSTRUCTION INFORMATION

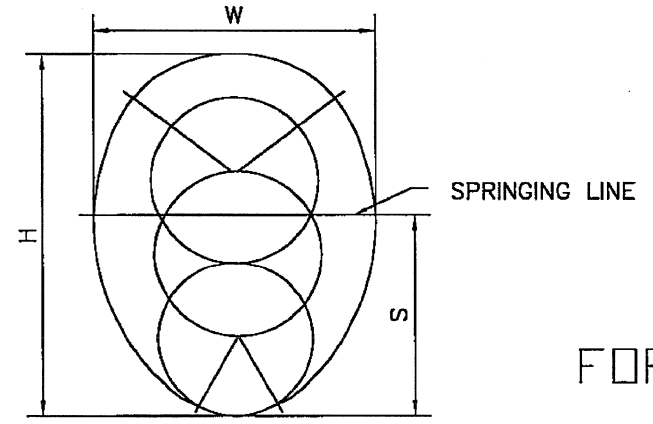
Minimum weight of grate, 159 lbs.  
 Minimum weight of frame, 265 lbs.



EGG SHAPED SEWERS				NO.	H FEET	W FEET	S FEET	AREA SQ. FT.	NO.	H FEET	W FEET	S FEET	AREA SQ. FT.	
NO.	H FEET	W FEET	S FEET	AREA SQ. FT.	8	5.12	4.04	2.71	16.00	15	7.79	6.14	4.12	36.99
2	2.25	1.94	1.28	3.41	9	5.54	4.37	2.93	18.72	16	8.13	6.41	4.30	40.32
3	2.75	2.23	1.64	4.75	10	5.94	4.69	3.14	21.54	17	8.47	6.68	4.47	43.71
4	3.23	2.54	1.70	6.35	11	6.33	4.99	3.35	24.46	18	8.79	6.94	4.65	47.17
5	3.74	2.95	1.98	8.55	12	6.71	5.29	3.55	27.47	19	9.12	7.19	4.82	50.70
6	4.23	3.34	2.23	10.90	13	7.08	5.58	3.74	30.57	20	9.43	7.44	4.98	54.29
7	4.69	3.70	2.48	13.39	14	7.44	5.87	3.93	33.74					

**TYPES OF EGG SHAPED SEWERS**

- "A"—1 RING OF BRICK ALL AROUND.
- "B"—1 RING OF BRICK ALL AROUND & 1 RING EXTRA ON ARCH.
- "C"—2 RINGS OF BRICK ALL AROUND .
- "D"—2 RINGS OF BRICK ALL AROUND & 1 RING EXTRA ON ARCH.
- "E"—3 RINGS OF BRICK ALL AROUND.



FOR RECORD ONLY

**TABULAR DIMENSIONS FOR EGG SHAPED SEWERS NO.2 TO NO. 8**

NO.	A	B	C	D	E	F	G	H	I	J	K	L	M
2	2'-3"	1'-11 1/4"					6 3/8"	9"	1'-6"		6 3/8"		
3	2'-9"	2'-2 3/4"					10 5/8"	9"	2'-0"		10 5/8"		
4	3'-2 3/4"	2'-6 5/8"	1'-2 1/8"	1'-2 1/8"	1'-10 1/2"	11 1/2"	7 3/16"	8 1/8"	1'-10 1/2"	4 1/16"	12 3/16"	1'-10 1/2"	4 1/4"
5	3'-9"	2'-11 3/8"	1'-4 3/8"	1'-4 3/8"	2'-1 7/8"	1'-1 3/8"	8 3/16"	9 1/2"	2'-1 7/8"	4 3/4"	1'-2 1/4"	2'-1 7/8"	4 7/8"
6	4'-2 3/4"	3'-4"	1'-6 1/2"	1'-6 1/2"	2'-5 1/4"	1'-3 1/8"	9 1/4"	10 3/4"	2'-5 1/4"	5 3/8"	1'-4 1/8"	2'-5 1/4"	5 1/2"
7	4'-8 1/4"	3'-8 3/8"	1'-8 1/2"	1'-8 1/2"	2'-8 1/2"	1'-4 3/4"	10 5/16"	11 7/8"	2'-8 1/2"	5 15/16"	1'-5 13/16"	2'-8 1/2"	6 1/8"
8	5'-1 1/2"	4'-0 1/2"	1'-10 1/2"	1'-10 1/2"	2'-11 1/2"	1'-6 1/4"	11 1/4"	1'-1"	2'-11 1/2"	6 1/2"	1'-7 1/2"	2'-11 1/2"	6 3/4"

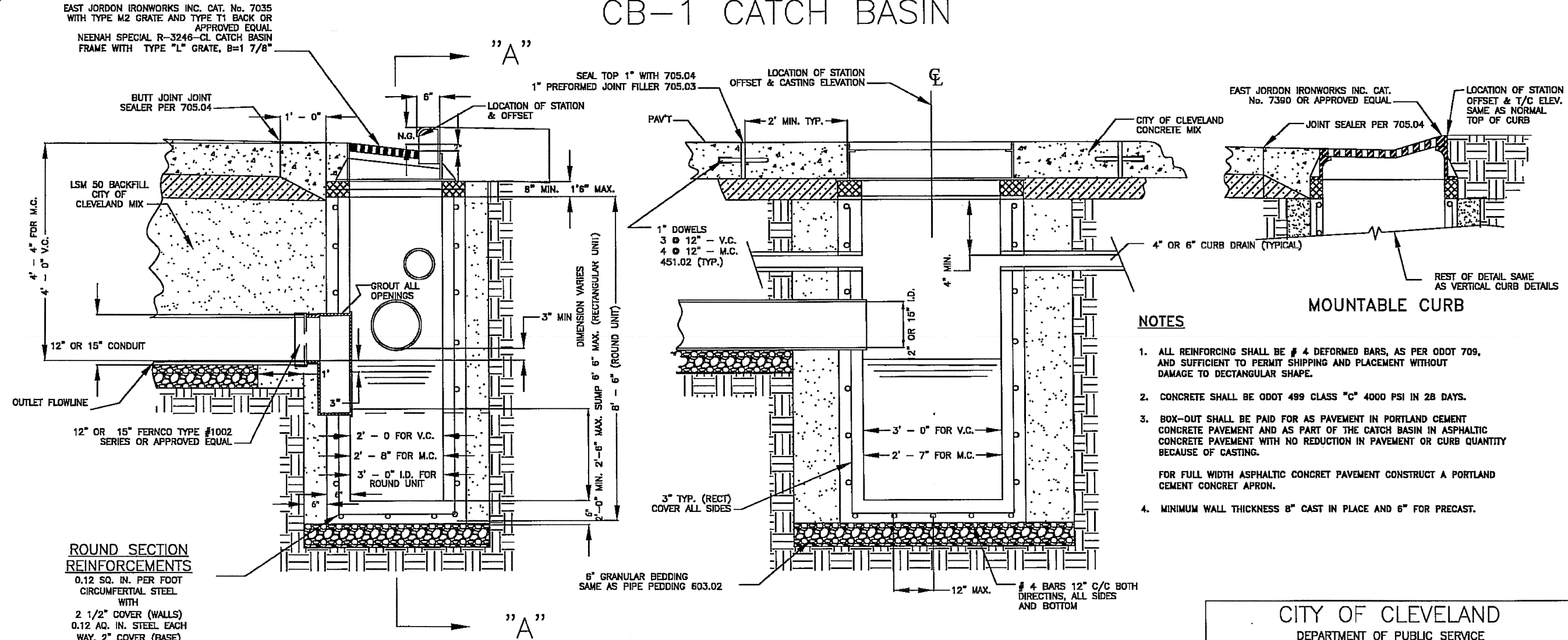
**CITY OF CLEVELAND**  
 DEPARTMENT OF PUBLIC SERVICE  
 DIVISION OF ENGINEERING & CONSTRUCTION  
 JOMARIE WASIK—DIRECTOR OF PUBLIC SERVICE  
 STANDARD CONSTRUCTION DRAWING  
 STANDARD PLAN FOR EGG SHAPED SEWERS  
 DIMENSIONS & AREAS  
 NOT TO SCALE

DRAWN BY: R. PLIODZINSKAS DATE: 4/8/08  
 SUBMITTED BY: W. McLAUGHLIN DATE: 4/8/08

APPROVED: *[Signature]* DATE: 7-8-08  
 COMMISSIONER OF ENGINEERING & CONSTRUCTION

FILE NO. 73M

# CB-1 CATCH BASIN



**NOTES**

1. ALL REINFORCING SHALL BE # 4 DEFORMED BARS, AS PER ODOT 709, AND SUFFICIENT TO PERMIT SHIPPING AND PLACEMENT WITHOUT DAMAGE TO DECTANGULAR SHAPING.
2. CONCRETE SHALL BE ODOT 499 CLASS "C" 4000 PSI IN 28 DAYS.
3. BOX-OUT SHALL BE PAID FOR AS PAVEMENT IN PORTLAND CEMENT CONCRETE PAVEMENT AND AS PART OF THE CATCH BASIN IN ASPHALTIC CONCRETE PAVEMENT WITH NO REDUCTION IN PAVEMENT OR CURB QUANTITY BECAUSE OF CASTING.  
 FOR FULL WIDTH ASPHALTIC CONCRETE PAVEMENT CONSTRUCT A PORTLAND CEMENT CONCRET APRON.
4. MINIMUM WALL THICKNESS 8" CAST IN PLACE AND 6" FOR PRECAST.

**CITY OF CLEVELAND**  
 DEPARTMENT OF PUBLIC SERVICE  
 DIVISION OF ENGINEERING & CONSTRUCTION  
 JOMARIE WASIK-DIRECTOR OF PUBLIC SERVICE  
 STANDARD CONSTRUCTION DRAWING  
 STANDARD DETAIL FOR  
 RECTANGULAR CATCH BASIN  
 NOT TO SCALE

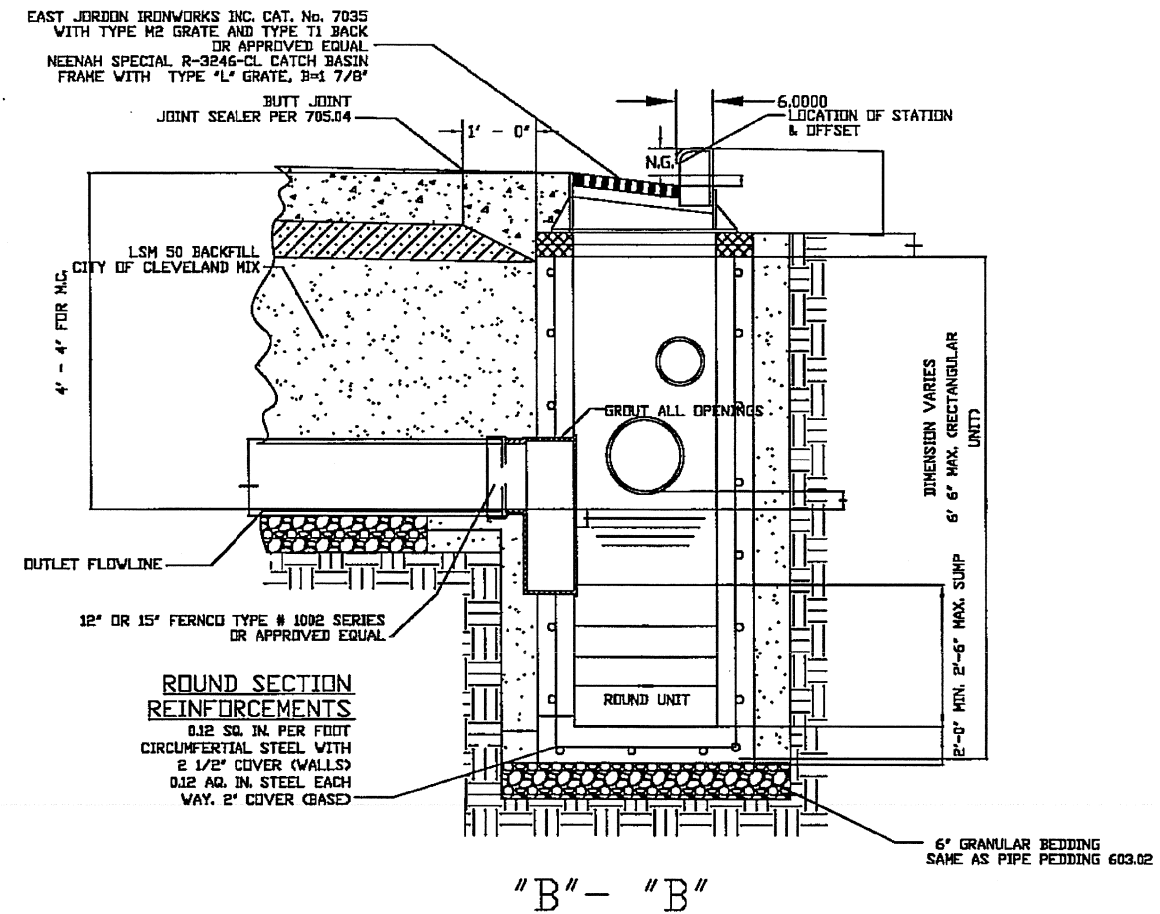
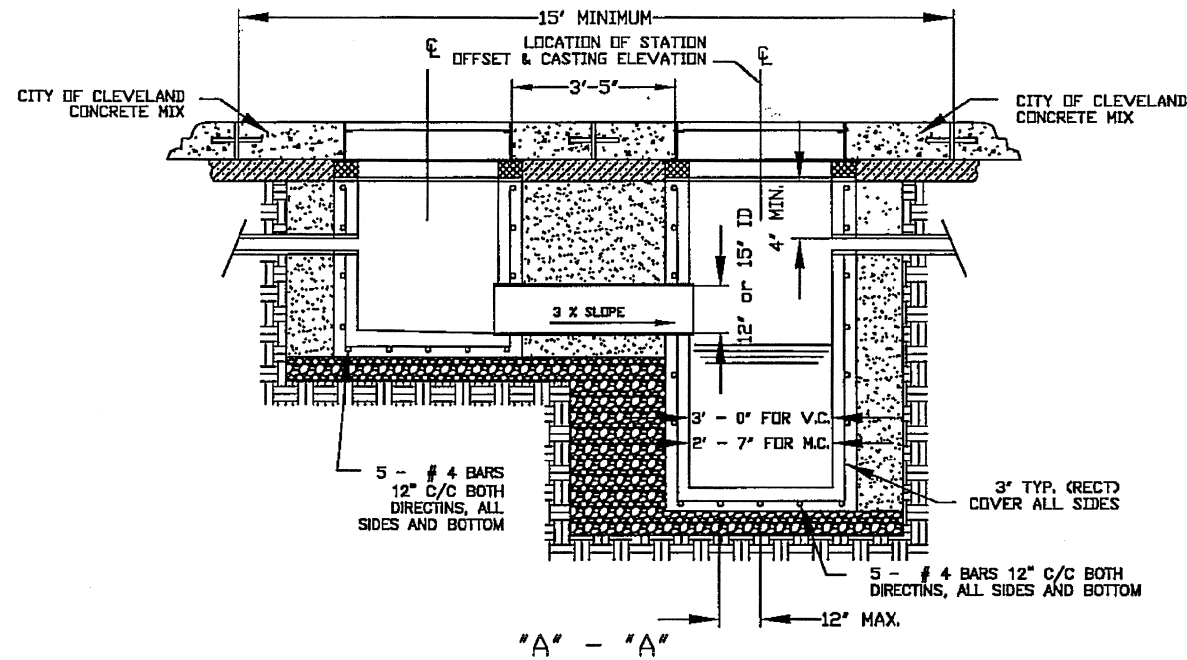
REVISED BY: R. PLIODZINSKAS DATE: 4/8/08  
 SUBMITTED BY: W. MCLAUGHLIN DATE: 4/8/08

APPROVED: [Signature] DATE: 7-8-08  
 COMMISSIONER OF ENGINEERING & CONSTRUCTION

FILE NO. CB-1 SHEET 1/7 (26)

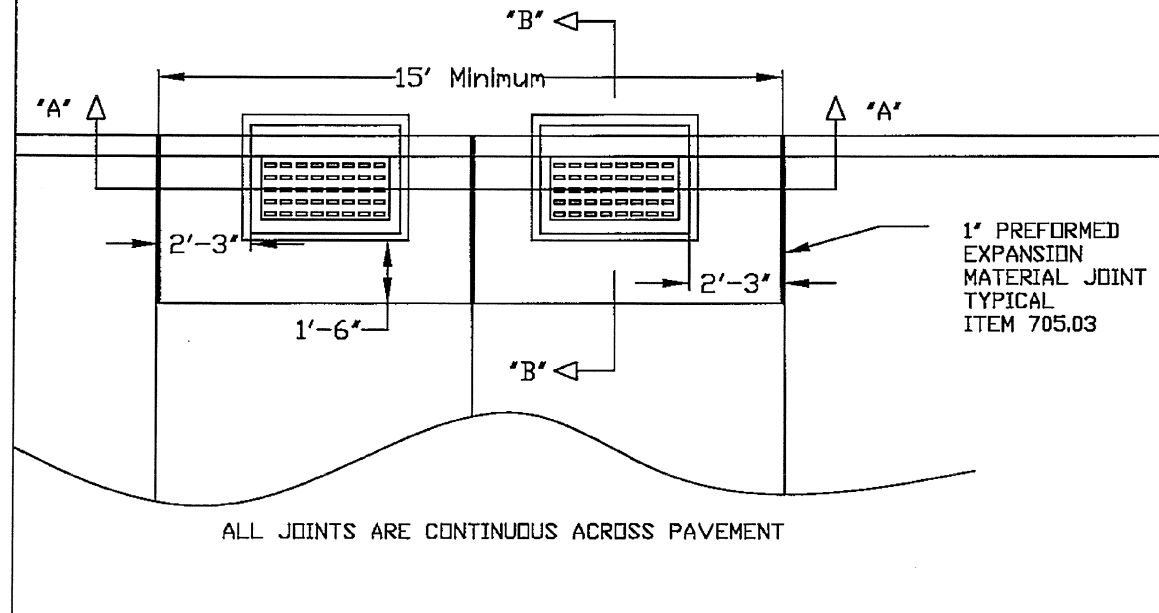
DRAINAGE DETAILS  
 ITEM 611 - CATCH BASIN, NO. 3A, AS PER PLAN

DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	
REVIEWER	
PROJECT ID	82382
SHEET TOTAL	968 2339



**NOTES**

1. THE CATCH BASIN SHALL BE SET AT THE LOW POINT OF A SAG VERTICAL CURVE OR AT THE POINT WHERE THE GRADE OF THE STREET CHANGES FROM NEGATIVE TO POSITIVE OR DOWNSTREAM FROM THE INLET BASIN.
2. THE CONCRETE BETWEEN THE CASTINGS SHALL BE SLOPED TO MATCH THE SLOPE OF THE CASTINGS.
3. REFER TO CB-1 AND IB-1 FOR FULL DETAILS AND DIMENSIONS.
4. PIPE BETWEEN BASINS SHALL BE EXTRA STRENGTH VCP PIPE AND IS INCLUDED IN THE BID ITEM FOR TWIN BASIN CB-3.
5. DWEL SPACING AND SIZE SHALL BE AS FOLLOWS:  
 1" DWELS-  
 3 @ 12" - V.C.  
 4 @ 12" - M.C.  
 451.02 (TYP.)
6. MINIMUM WALL THICKNESS 8" FOR CAST IN PLACE AND 6" FOR PRECAST

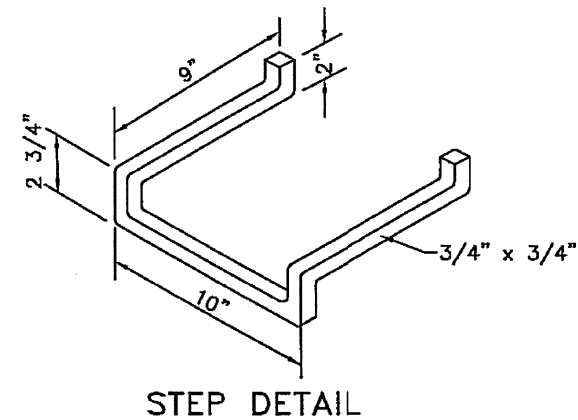
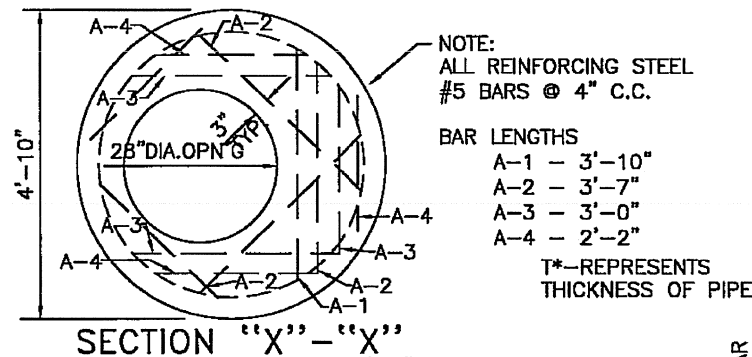
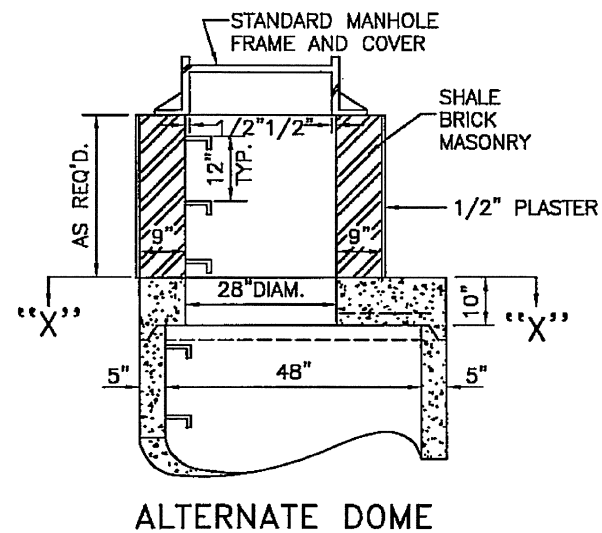
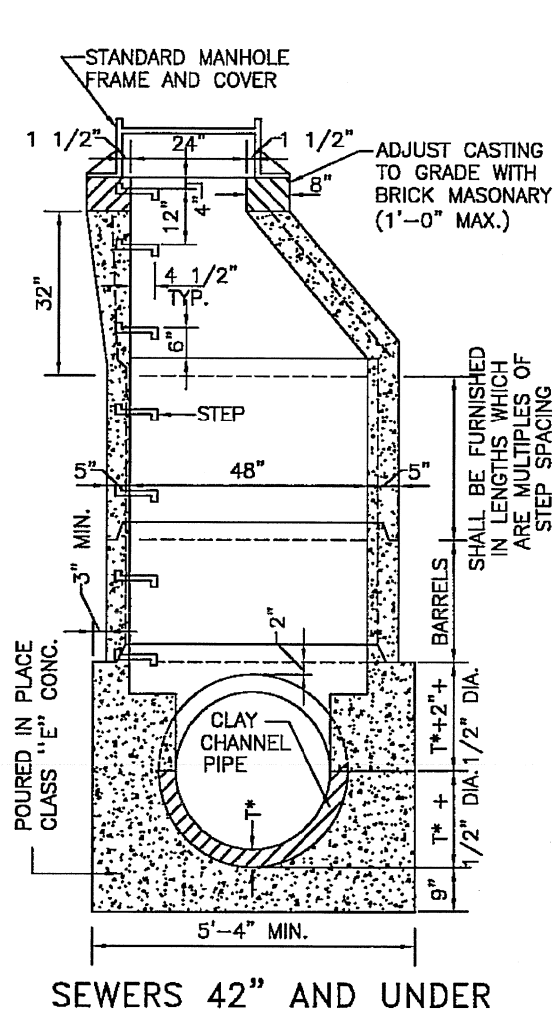


**CITY OF CLEVELAND**  
 DIVISION OF ENGINEERING & CONSTRUCTION  
 JOMARIE WASIK-DIRECTOR OF PUBLIC SERVICE  
 STANDARD CONSTRUCTION DRAWING  
 DETAILS FOR  
 TWIN BASIN - CB-3  
 NOT TO SCALE

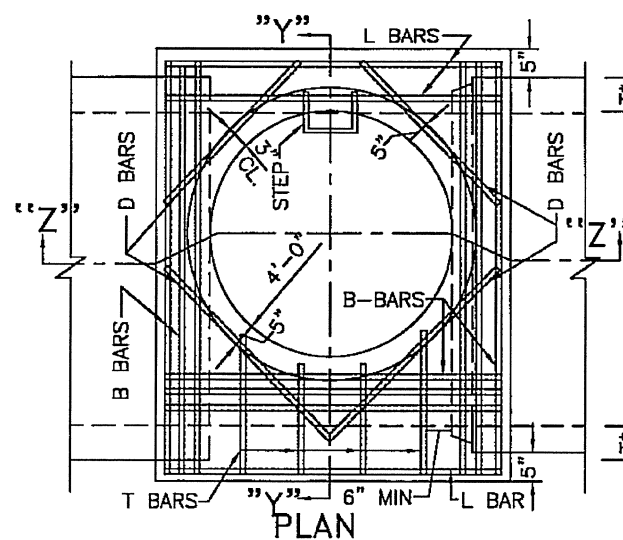
DRAWN BY: R. PLIODZINSKAS      DATE: 4/8/08  
 SUBMITTED BY: W. MCLAUGHLIN      DATE: 4/8/08

APPROVED: *[Signature]* DATE: 7-8-08  
 COMMISSIONER OF ENGINEERING & CONSTRUCTION

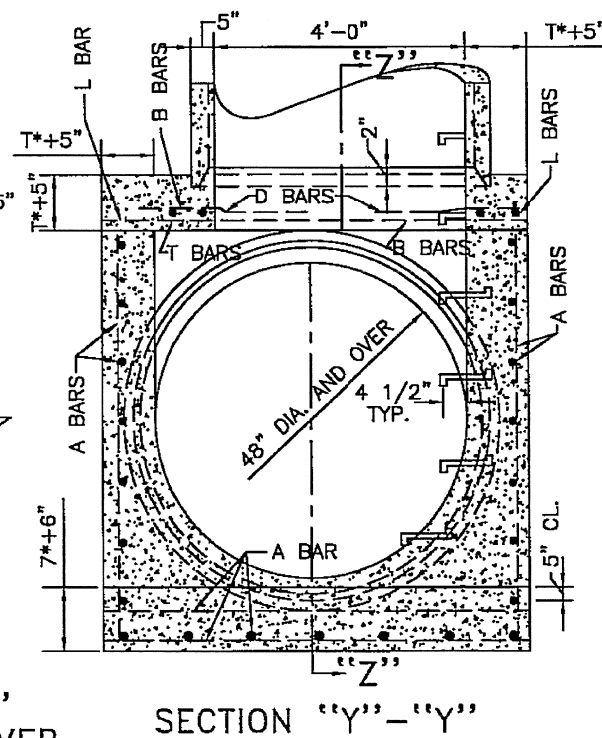
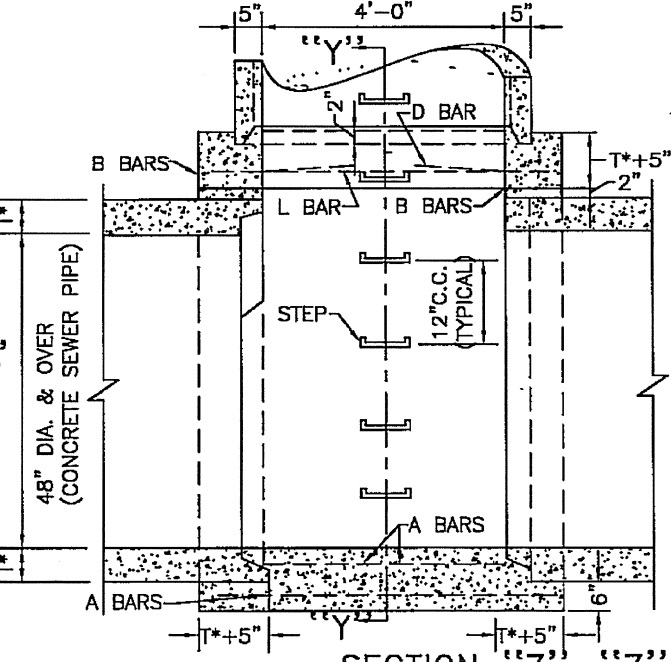
FILE NO. CB 1      SHEET 3/7      28



NOTE: STEPS SHALL BE CAST IRON AS PER ASTM A 48 CLASS 30 GRAY IRON OR ALUMINUM AS PER ASTM B 221,6061-T6



CONNECTION BOX FOR PRECAST MANHOLES ON SEWERS 48" AND OVER



NOTES:

NO HOLES FOR 12" INLET OR CATCH BASIN CONNECTIONS SHALL BE CUT IN ANY SECTION LESS THAN 36" MANHOLE BARREL NOT MORE THAN 2 INLET CONNECTIONS SPACED 2± FEET APART HORIZONTALLY PERMITTED IN 3 OR 4 FOOT MANHOLE SECTIONS.

ALL JOINTS AND PIPE OPENINGS IN THE MANHOLE SHALL BE THOROUGHLY CALKED WITH 1:3 CEMENT MORTAR HAVING A 1/2" MINIMUM THICKNESS.

PRECAST REINFORCED CONCRETE MANHOLE SECTIONS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM DESIGNATION C 478-06a: MINIMUM WALL THICKNESS SHALL BE 5 INCHES.

CONNECTION BOXES FOR SEWERS 48" AND OVER IN DIAMETER SHALL BE REINFORCED AS SHOWN AND AS SPECIFIED BELOW:

- A) BARS SHALL BE SPACED AT 12" CENTERS IN BOTH DIRECTIONS.
- B) BARS SHALL BE SPACED AT 3" CENTERS IN BOTH DIRECTIONS.  
 A,B & L BARS SIZES:  
 5/8" DIAM. FOR 48" TO 60" SEWERS.  
 3/4" DIAM. FOR 66" TO 78" SEWERS.  
 7/8" DIAM. FOR 84" TO 96" SEWERS.
- C) T BARS SHALL BE 5/8" DIAM. SPACED AT 12" CENTERS.
- D) BARS SHALL BE 5/8" DIAMETER EPOXY COATED REINFORCING STEEL SHALL HAVE 2" CLEARANCE EXCEPT WHERE OTHERWISE SPECIFIED.
- E) STANDARD MANHOLE FRAME AS PER A-503 (SHEET 61) AND COVER AS PER A-605 (SHEET 62) OR A-695 (SHEET 63)

CITY OF CLEVELAND

DEPARTMENT OF PUBLIC SERVICE  
 DIVISION OF ENGINEERING & CONSTRUCTION  
 JOMARIE WASIK-DIRECTOR OF PUBLIC SERVICE  
 STANDARD CONSTRUCTION DRAWING  
 DETAIL PLAN OF PRECAST CONCRETE MANHOLE  
 NOT TO SCALE

DRAWN BY: R. PLIODZINSKAS DATE: 8/28/07  
 SUBMITTED BY: W. MCLAUGHLIN DATE: 8/28/07  
 APPROVED: [Signature] DATE: 7-8-08  
 COMMISSIONER OF ENGINEERING & CONSTRUCTION

FILE NO. MH 1 SHEET 1/1

23