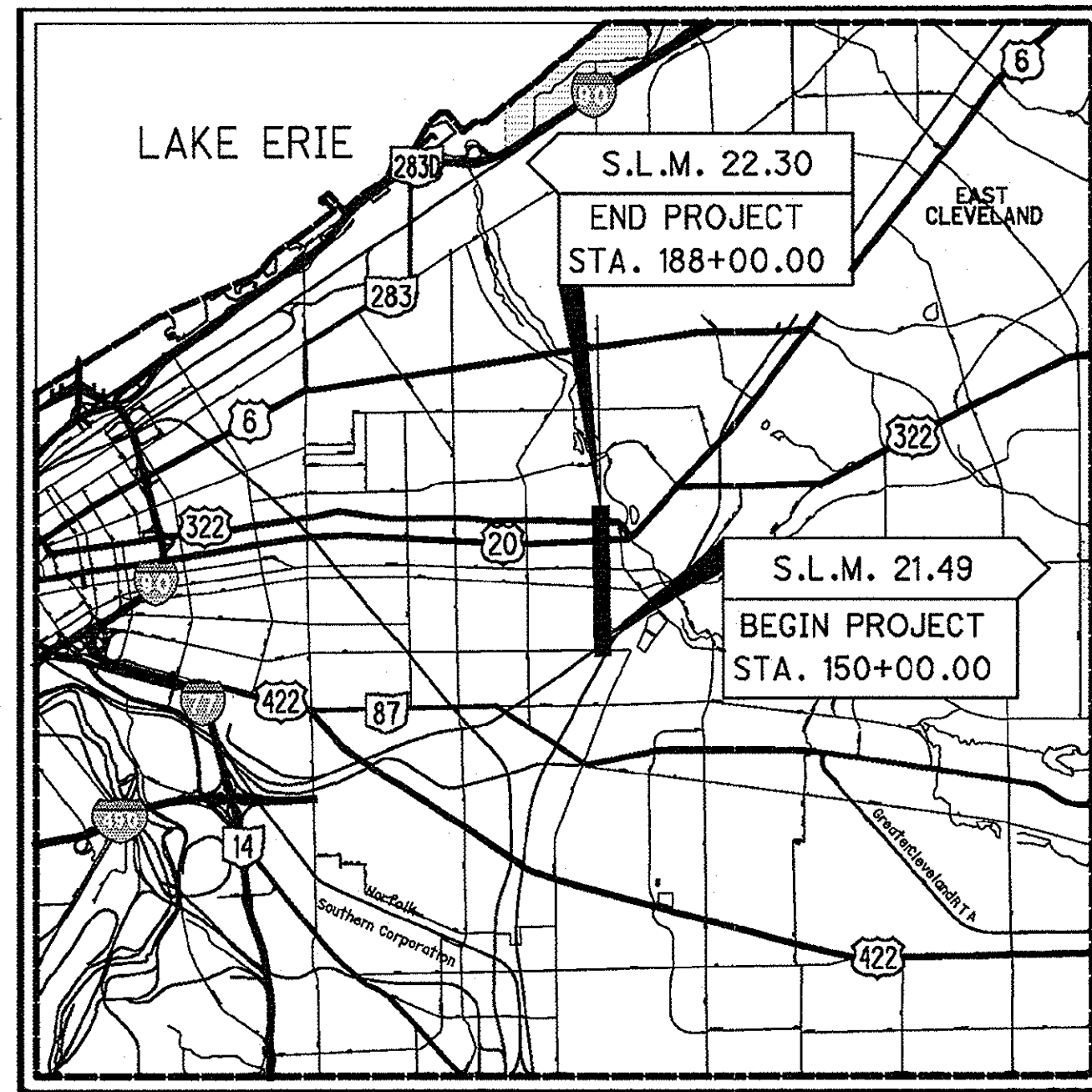
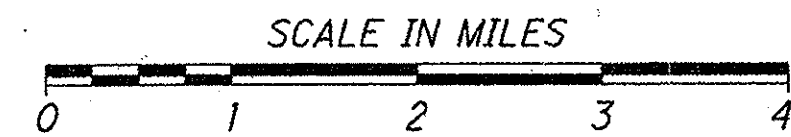


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
**CUY-10-21.49**  
CITY OF CLEVELAND  
CUYAHOGA COUNTY



LOCATION MAP

LATITUDE: 41°29'08" LONGITUDE: 81°37'22"



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

DESIGN DESIGNATION

CURRENT ADT (2010)	13374
DESIGN YEAR ADT (2020)	29090
DESIGN HOURLY VOLUME (2020)	
DIRECTIONAL DISTRIBUTION	
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	40 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN PRINCIPAL ARTERIAL

NHS PROJECT \_\_\_\_\_

DESIGN EXCEPTIONS

NONE RECORDED

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG

CALL  
**1-800-362-2764**  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

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

PLAN PREPARED BY:  
HNTB CORPORATION  
1100 SUPERIOR AVE, SUITE 1701  
CLEVELAND, OH 44114

ENGINEERS SEAL:

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.1	7/19/13	DM-4.4	7/20/12	MT-95.31	7/19/13	TC-41.40	10/18/13	SS804 4/18/14	
BP-2.2	7/18/08			MT-95.32	7/19/13	TC-41.50	10/18/13	SS816 1/20/12	
BP-2.5	7/19/13	LA-1.1	10/15/10	MT-95.50	7/19/13	TC-42.10	10/18/13	SS907 1/20/12	
BP-3.1	4/20/12	LA-1.2	1/16/09	MT-97.10	7/19/13	TC-42.20	10/18/13	SS800 7/18/14	
BP-5.1	7/19/13			MT-97.12	7/19/13	TC-52.10	10/18/13	SS832 1/17/14	
BP-7.1	10/15/10	HL-20.11	1/17/14	MT-99.20	7/19/13	TC-52.20	1/17/14	SS861 7/19/13	
		HL-30.11	1/17/14	MT-101.60	7/19/13	TC-71.10	1/17/14	SS902 12/31/12	
CB-2.1	1/18/13	HL-30.21	1/17/14	MT-101.90	7/19/13	TC-81.10	10/18/13		
CB-4.2	1/18/13	HL-30.22	1/17/14	MT-102.20	7/19/13	TC-81.21	1/17/14		
		HL-40.10	1/17/14	MT-105.10	7/19/13	TC-82.10	10/18/13		
MH-1.1	1/18/13	HL-40.20	1/17/14	MT-110.10	7/19/13	TC-83.10	1/17/14		
MH-1.2	1/18/13	HL-50.11	1/17/14			TC-83.20	10/18/13		
		HL-60.11	1/17/14	TC-21.20	10/18/13	TC-85.10	10/18/13		
DM-1.1	1/18/13	HL-60.12	1/17/14	TC-22.20	1/17/14	TC-85.20	10/18/13		
DM-1.2	1/18/13	HL-60.31	1/17/14	TC-41.20	10/18/13				
DM-1.4	1/18/13			TC-41.30	10/18/13				

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE RECONSTRUCTION AND WIDENING OF 0.85 MILES OF EAST 105TH ST. FROM NORMAN AVE. TO PARK LANE. WORK INCLUDES PAVEMENT, DRAINAGE, WATERWORK, LIGHTING, POWER DISTRIBUTION, TRAFFIC CONTROL, LANDSCAPING AND ADJUSTMENT OF UTILITY APPURTENANCES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 13.3 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 2.0 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A  
(AREA SERVICED BY COMBINED SEWER)

2013 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DELCARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE URBAN PRINCIPAL ARTERIAL EXCEPT AS NOTED ON SHEET 32, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

PLAN CERTIFIED BY:

NAME: *Matthew S. Wahl*  
DATE: 6-19-14 OHIO DEPARTMENT OF TRANSPORTATION,  
DISTRICT 12 DIRECTOR

APPROVED: *James M. ...*  
DATE: 6-26-14 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. NON-FEDERAL

PID NO. 96832

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

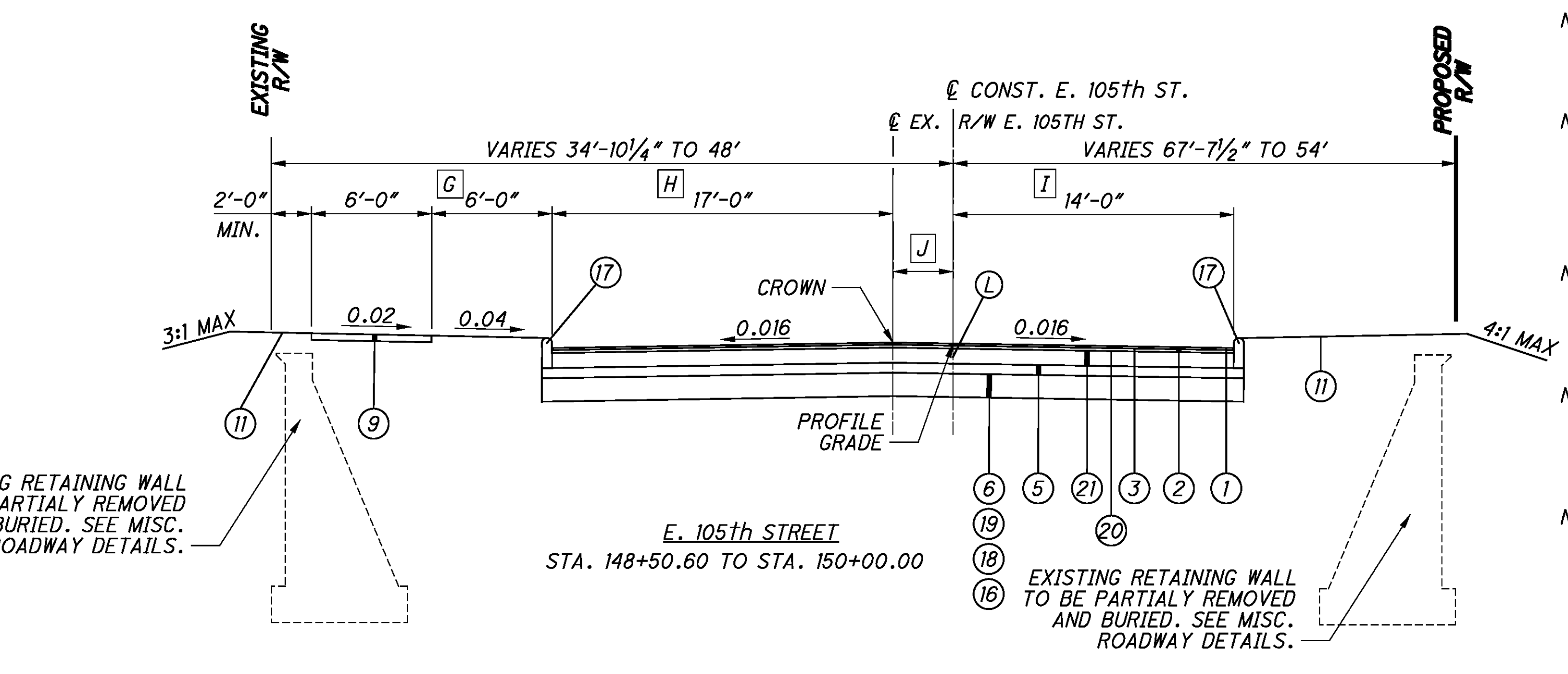
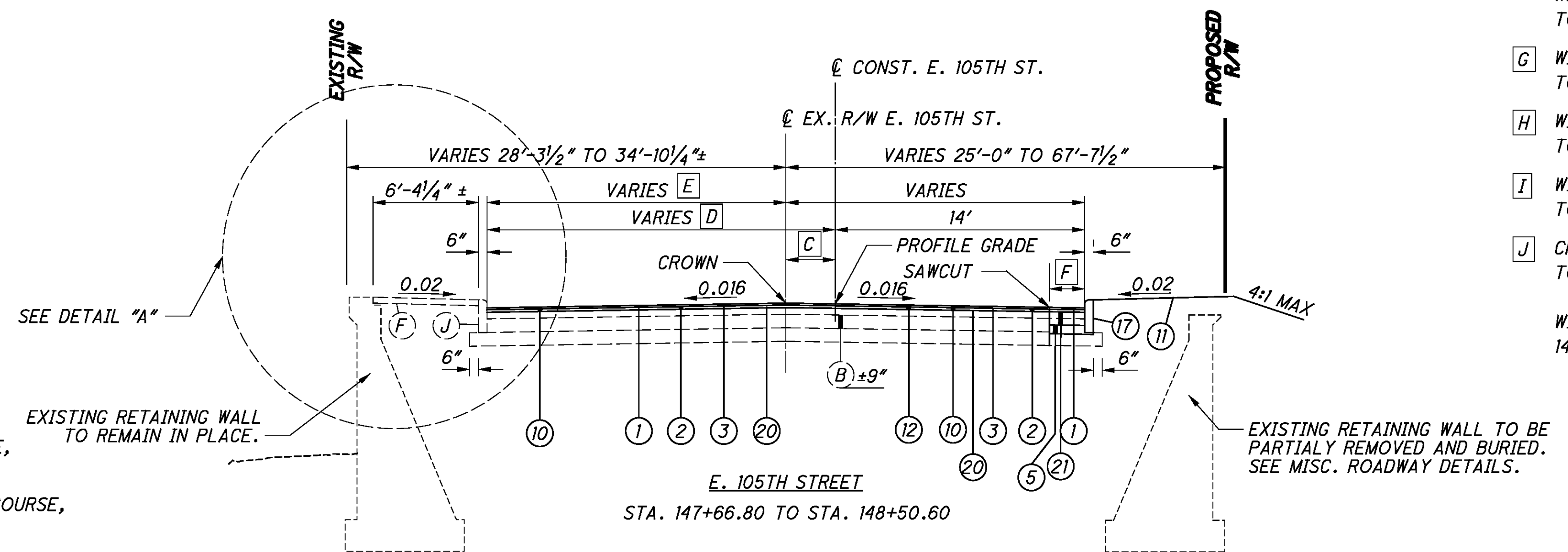
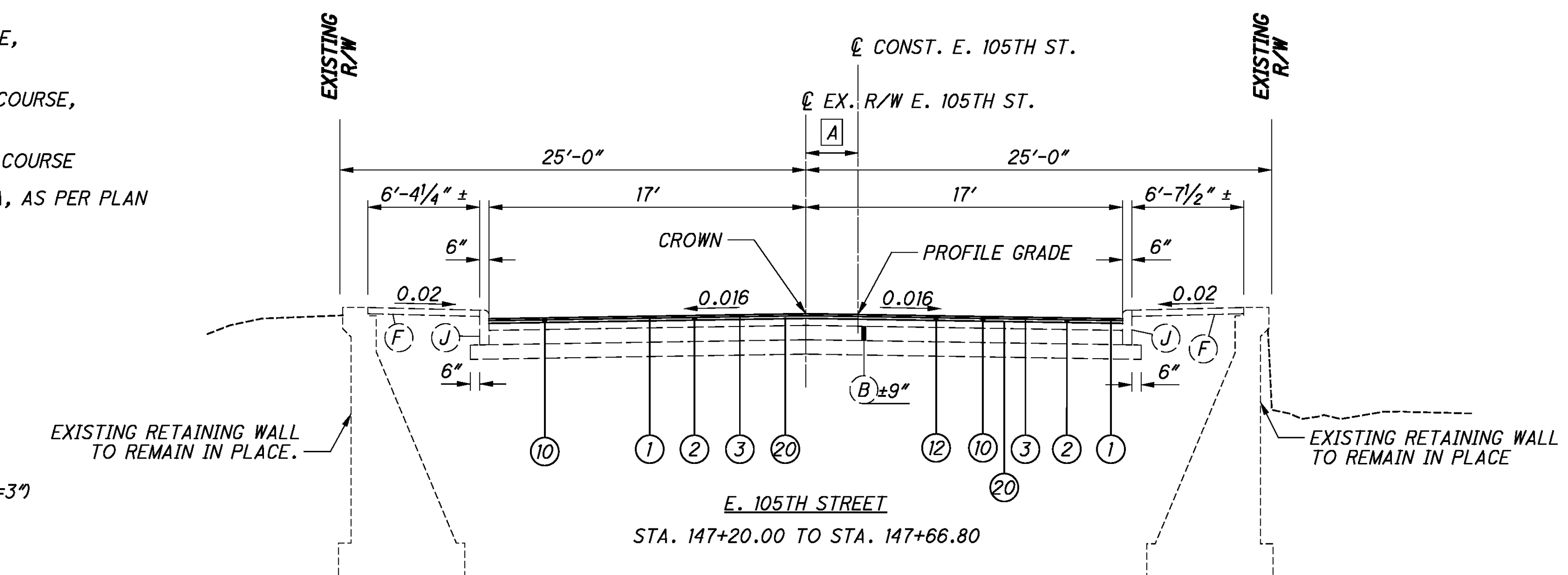
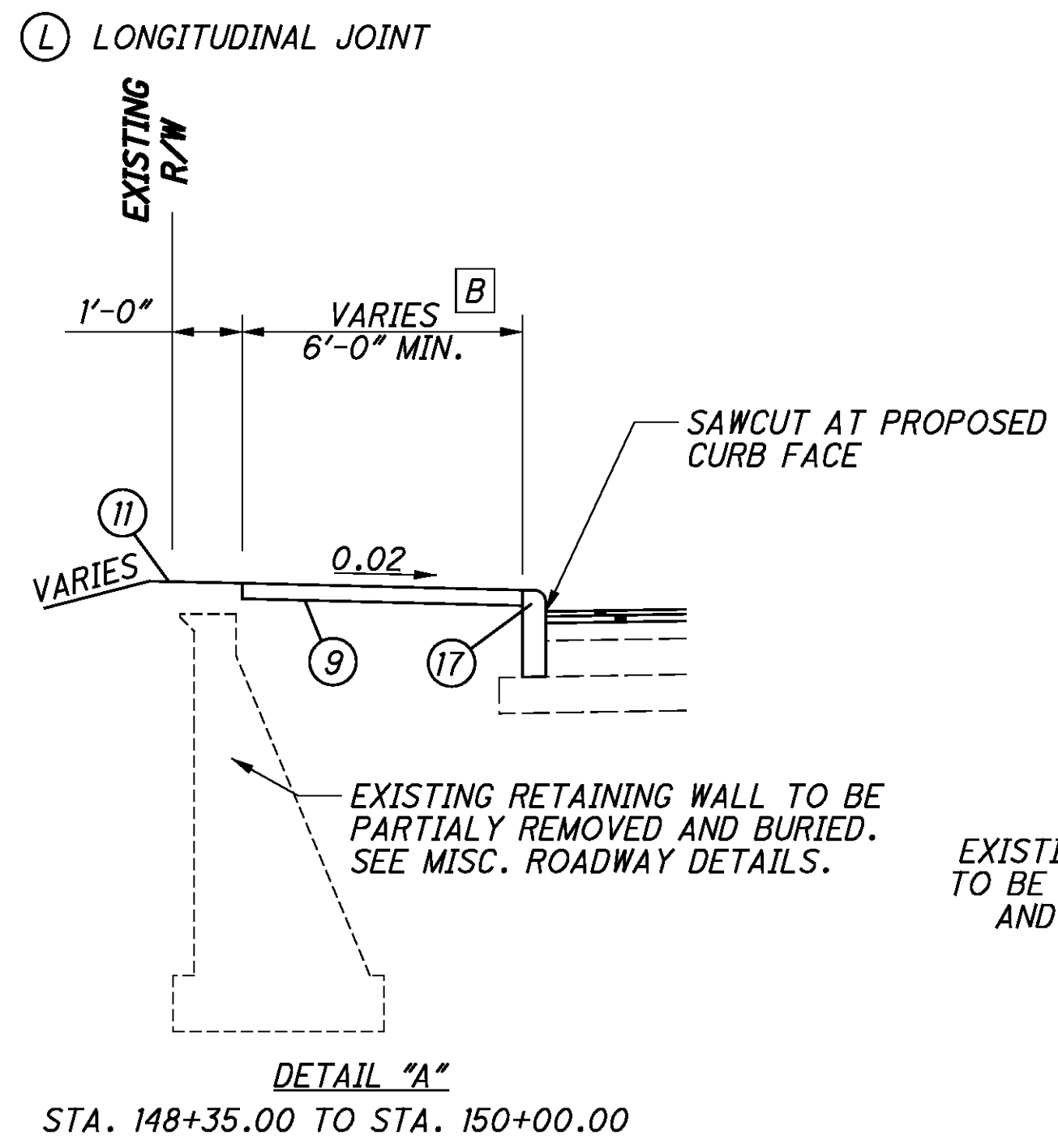
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 DIST 12  
 PID - 96832  
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- LEGEND**
- ① ITEM 442 - 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, 9.5MM, TYPE A (446), AS PER PLAN
  - ② ITEM 442 - 1-3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, 19MM, TYPE A (448)
  - ③ ITEM SPECIAL - TACK COAT, TRACKLESS FOR INTERMEDIATE COURSE
  - ④ ITEM 305 - 9" CONCRETE BASE, CLASS QCI WITH QC/QA, AS PER PLAN
  - ⑤ ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN (SEE NOTE "E" (TYP.))
  - ⑥ ITEM 204 - 12" SUBGRADE EXCAVATION OF SUBGRADE (SEE NOTE "B" (TYP.))
  - ⑦ ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS, WITH FILTER FABRIC
  - ⑧ ITEM 609 - CURB, TYPE 2-B, AS PER PLAN
  - ⑨ ITEM 608 - 6" CONCRETE WALK, AS PER PLAN
  - ⑩ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T=3")
  - ⑪ ITEM 659 - SEEDING AND MULCHING
  - ⑫ ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (SEE NOTE "D" (TYP.))
  - ⑬ ITEM 448 - VARIABLE DEPTH INTERMEDIATE COURSE, TYPE 1, PG 64-22
  - ⑭ NOT USED
  - ⑮ ITEM 304 - 8" AGGREGATE BASE, AS PER PLAN (SEE NOTE "E" (TYP.))
  - ⑯ ITEM 204 - SUBGRADE COMPACTION
  - ⑰ ITEM 609 - CURB TYPE 6, AS PER PLAN
  - ⑱ ITEM 861 - GEOGRID FOR SUBGRADE STABILIZATION (SEE NOTE "C" (TYP.))
  - ⑲ ITEM 204 - 12" GRANULAR MATERIAL TYPE B (SEE NOTE "B" (TYP.))
  - ⑳ ITEM SPECIAL - SPECIAL-TACK COAT, TRACKLESS
  - ㉑ ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22 (SEE NOTE "E" (TYP.))
  - ㉒ ITEM 252 - FULL DEPTH PAVEMENT SAWING
  - ㉓ ITEM 448 - 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22, AS PER PLAN
  - ㉔ ITEM 448 - 1-3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22



FOR EXISTING LEGEND, SEE SHEET 8

- A WIDTH VARIES FROM 0' @ STA. 147+33.83 TO 3.18' @ STA. 147+66.80
- B WIDTH VARIES FROM 7.29' @ STA. 148+01.97 TO 8.72' @ STA. 148+50.60
- C WIDTH VARIES FROM 3.18' @ STA. 147+66.80 TO 11.25' @ STA. 148+50.60
- D WIDTH VARIES FROM 19.92' @ STA. 147+66.80 TO 23.35' @ STA. 148+01.97  
WIDTH VARIES FROM 23.35' @ STA. 148+01.97 TO 25.56' @ STA. 148+35.00
- E WIDTH VARIES TO  $\bar{C}$  EX. R/W E. 105th ST. FROM 17' @ STA. 148+01.97 TO 15.82' @ STA. 148+35.00
- F FULL DEPTH PAVEMENT WIDENING WIDTH VARIES FROM 2' @ STA. 147+66.80 TO 8.61' @ STA. 148+35.00
- G WIDTH VARIES FROM 2.00' @ STA. 148+50.60 TO 6' @ STA. 150+00.00
- H WIDTH VARIES FROM 25.60' @ STA. 148+50.60 TO 34' @ STA. 150+00.00
- I WIDTH VARIES FROM 14' @ STA. 149+73.80 TO 16.6' @ STA. 150+00.00
- J CROWN SHIFT FROM 11.25' LT @ STA. 148+50.60 TO 0' @ STA. 150+00.00  
WIDTH VARIES BETWEEN  $\bar{C}$  FROM 11.25' @ STA. 148+50.60 TO 23' @ STA. 149+73.80

NOTE "A": R/W DIMENSIONS AND OFFSETS APPROXIMATE FROM  $\bar{C}$  CONST. PROPOSED R/W LIMITS ESTABLISHED FROM  $\bar{C}$  EXISTING R/W E. 105th ST.

NOTE "B": SEE GENERAL NOTE ITEM 204- SUBGRADE COMPACTION, EXCAVATION, EMBANKMENT, AND PROOF ROLLING ON SHEET 20 FOR SUBGRADE TREATMENT INFORMATION.

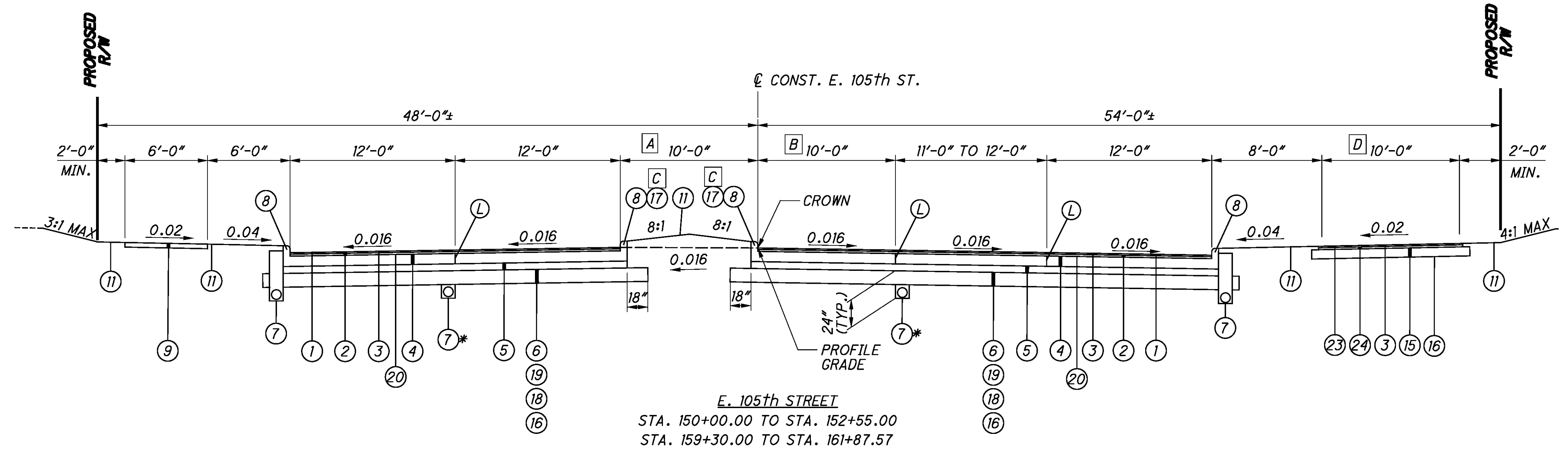
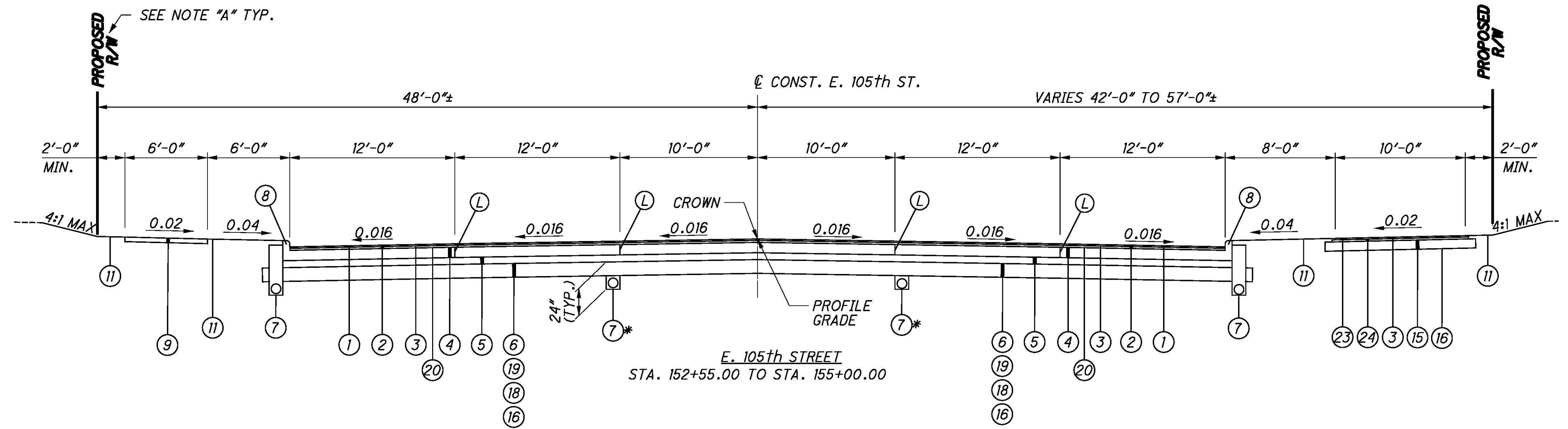
NOTE "C": INSTALL GEOGRID FROM BACK OF CURB TO BACK OF CURB. PREINSTALL MEDIAN UNDERDRAINS TO AVOID IMPACTING GEOGRID.

NOTE "D": PARTIAL DEPTH PAVEMENT REPAIR PROVIDED AS UNDISTRIBUTED QUANTITY AS DIRECTED BY THE ENGINEER. SEE SHEET 24 FOR INFORMATION.

NOTE "E": FOR ITEM 304 PLACE IN TWO LIFTS WITH A MAXIMUM THICKNESS OF 4" FOR EACH LIFT. FOR ITEM 301 PLACE IN TWO LIFT WITH A MAXIMUM THICKNESS OF 6" FOR EACH LIFT.

NOTE "A": R/W DIMENSIONS AND OFFSETS APPROXIMATE FROM  $\varnothing$  CONST.  
 PROPOSED R/W LIMITS ESTABLISHED ON  
 $\varnothing$  EXISTING R/W E. 105th ST.

- A NO MEDIAN FROM STA. 150+00.00 TO STA. 150+95.00  
 MEDIAN WIDTH IS 10' FROM STA. 150+00.00 TO STA. 152+55.00  
 MEDIAN WIDTH VARIES FROM 20' @ STA. 159+30.00 TO 10' @ STA. 159+80.00  
 MEDIAN WIDTH IS 10' FROM STA. 159+80.00 TO STA. 160+30.00
- B WIDTH VARIES FROM 10' @ STA. 160+30.00 TO 4' @ STA. 161+87.91
- C CURB TYPE 6, APPLIES FROM STA. 161+00.00 TO STA. 161+87.57
- D MULTI USE PATH BEGINS @ STA. 151+18.00  
 GRADE FOR FUTURE MULTI USE PATH FROM STA. 150+00.00 TO STA. 150+60.63



\* - TO BE INSTALLED PRIOR TO GEOGRID

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CALCULATED  
 SGM  
 CHECKED  
 ELJ

TYPICAL SECTIONS  
 E. 105TH STREET

CUY - 10 - 21.49

FOR LEGEND, SEE SHEET 12

NOTE "A": R/W DIMENSIONS AND OFFSETS APPROXIMATE FROM  $\text{C}$  CONST. PROPOSED R/W LIMITS ESTABLISHED ON  $\text{C}$  EXISTING R/W E. 105th ST.

\* CROSS SLOPES TRANSITION ON APPROACHES TO CEDAR, CARNEGIE, EUCLID AND CHESTER AVE. INTERSECTIONS. SEE INTERSECTION DETAILS AND INTERSECTING STREET PROFILES FOR ADDITIONAL INFORMATION.

A WIDTH 11' FROM STA. 155+50.00 TO STA. 156+00.00

WIDTH VARIES FROM 11' @ STA. 156+00.00 TO 0' @ STA. 156+50.00

B MEDIAN WIDTH 10' FROM STA. 155+50.00 TO STA. 156+00.00

MEDIAN WIDTH VARIES FROM 10' @ STA. 156+00.00 TO 20' @ STA. 156+50.00

MEDIAN WIDTH 20' FROM STA. 156+50.00 TO STA. 159+30.00

C WIDTH VARIES FROM 12' @ STA. 163+86.00 TO 11' @ STA. 165+27.74

D WIDTH VARIES FROM 12' @ STA. 166+17.00 TO 11' @ STA. 166+67.00

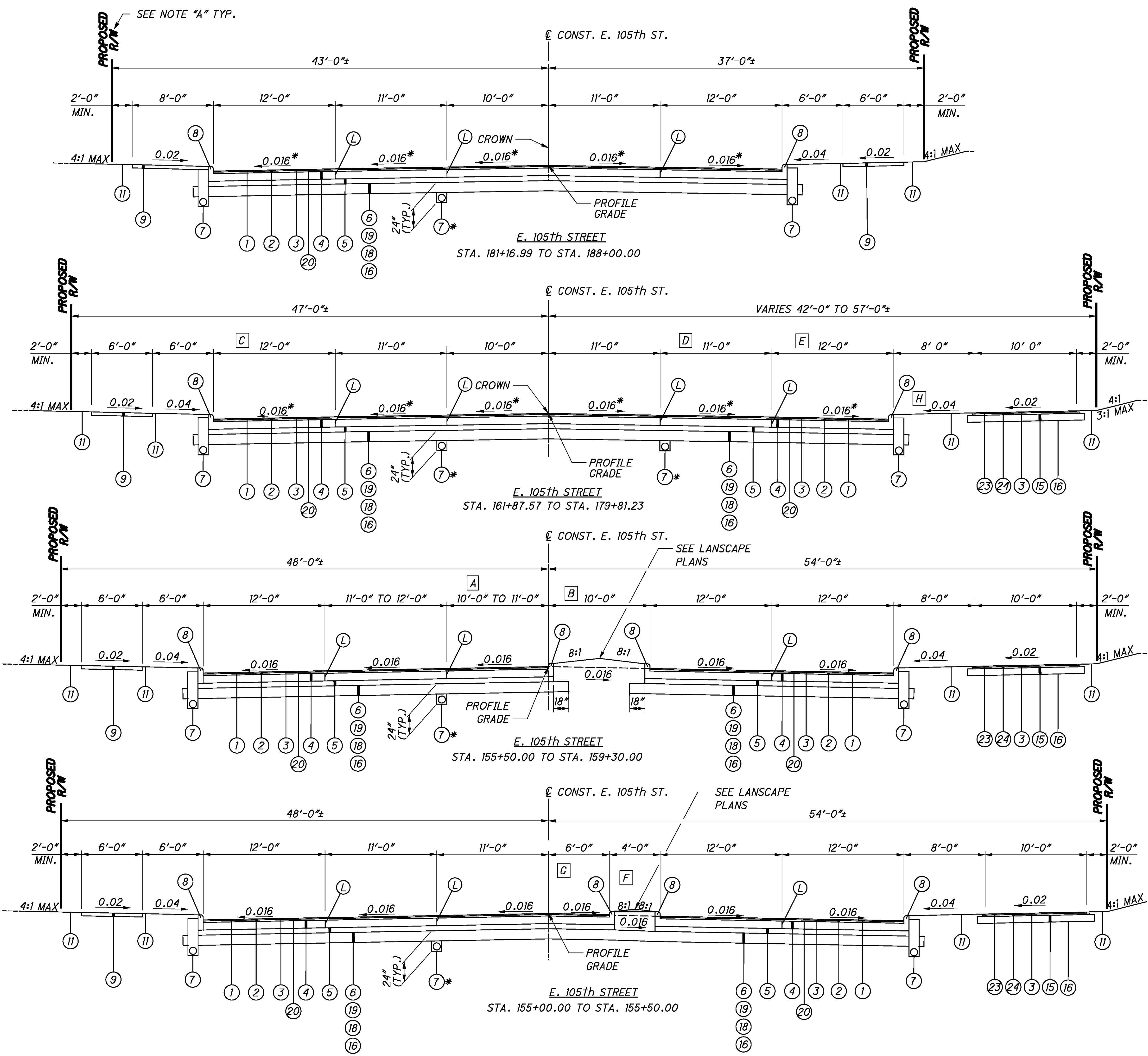
E WIDTH VARIES FROM 0' @ STA. 166+17.00 TO 12' @ STA. 166+67.00

F MEDIAN WIDTH VARIES FROM 4' @ STA. 155+00.00 TO 10' @ STA. 155+50.00.

G WIDTH VARIES FROM 6' @ STA. 155+00.00 TO 0' @ STA. 155+50.00

H SLOPE VARIES FROM STA. 171+65.44 TO STA. 172+25.00. SEE CROSS SECTIONS.

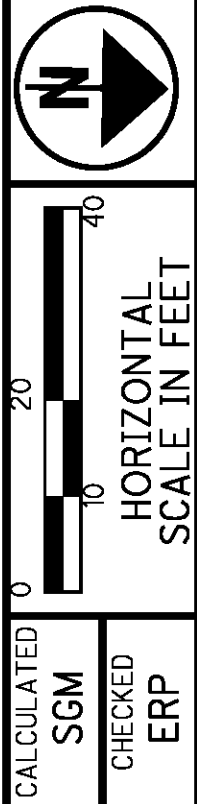
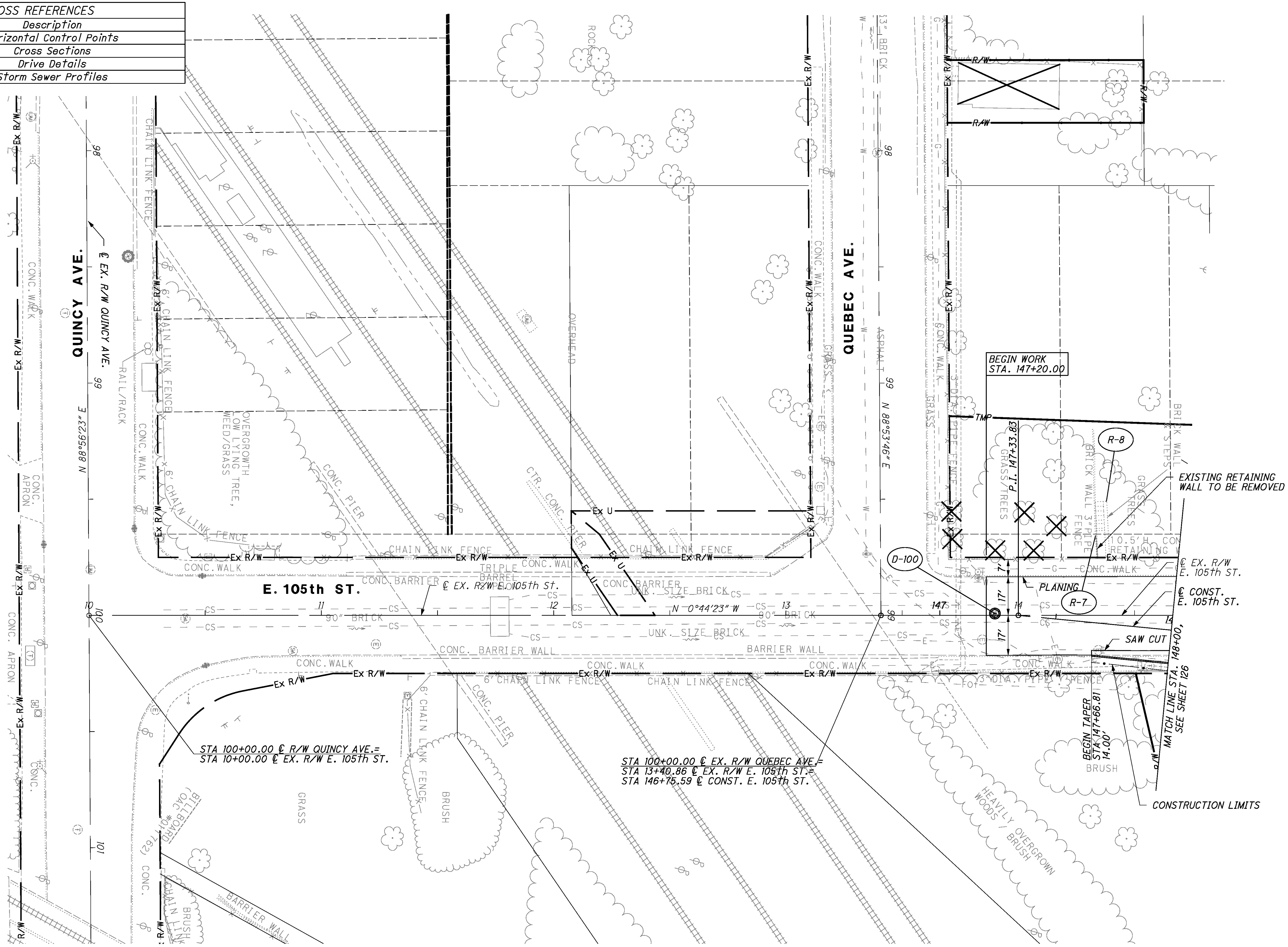
\* - TO BE INSTALLED PRIOR TO GEOGRID



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CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
158-159	Cross Sections
245-246	Drive Details
253-265	Storm Sewer Profiles



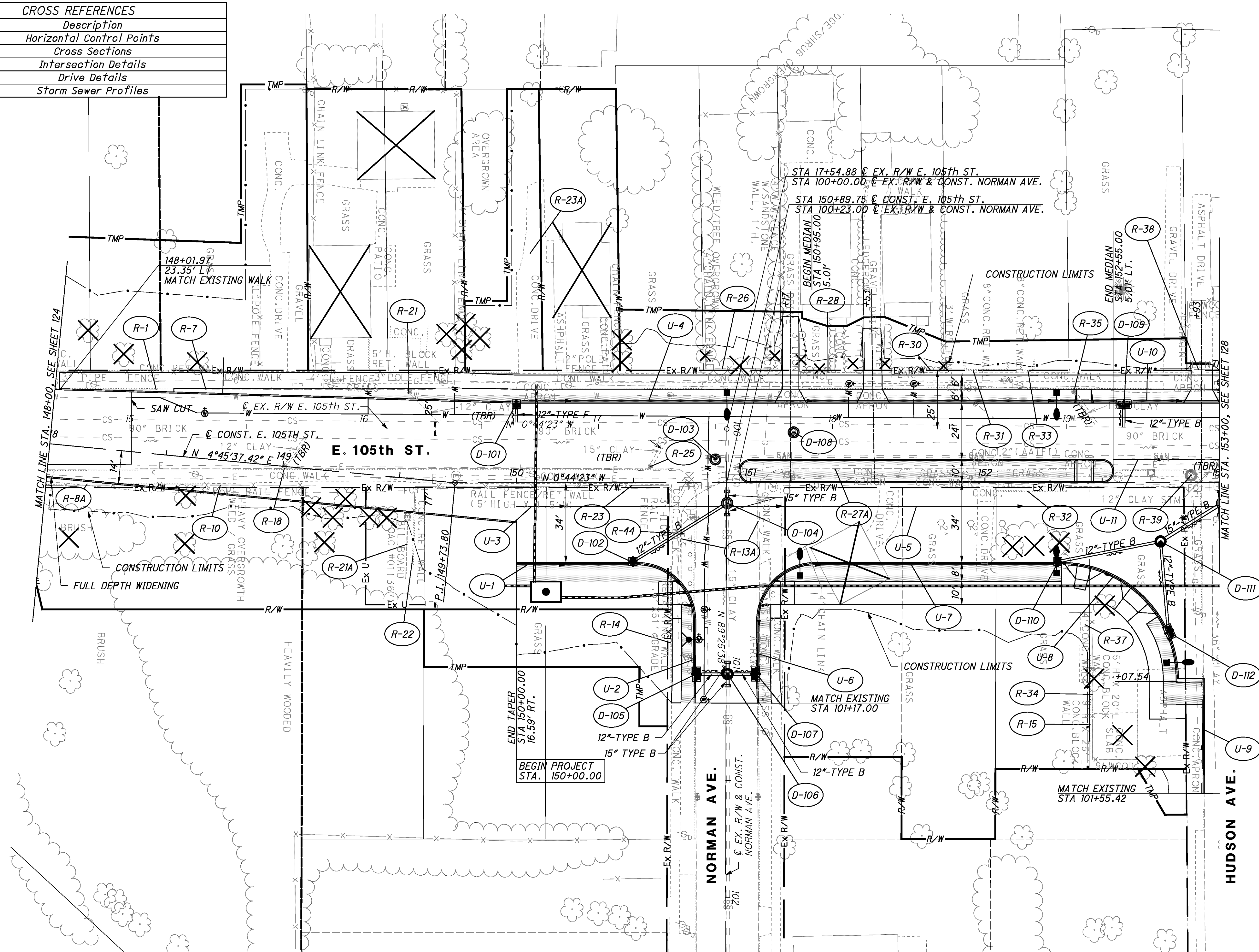
PLAN - E. 105th STREET  
 BEGIN TO STA. 148 +00

CUY-10-21.49

124  
 520

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CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
159-164	Cross Sections
225-226	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles

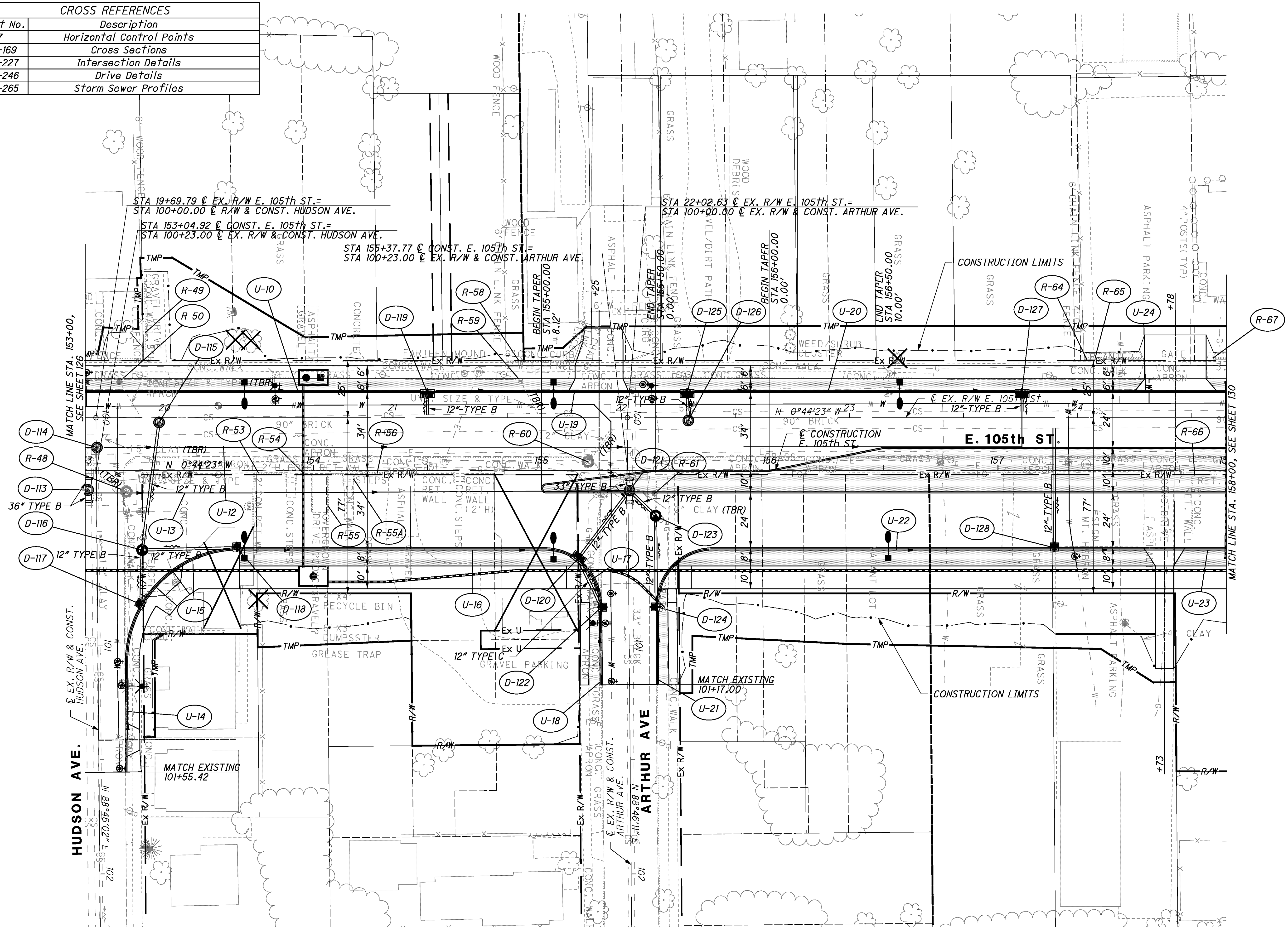


CALCULATED SGM CHECKED ERP  
**PLAN - E. 105th STREET**  
**STA. 148+00 TO STA. 153+00**

**CUY-10-21.49**  
 126  
 520

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CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
164-169	Cross Sections
226-227	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles



CALCULATED SGM CHECKED ERP

0 10 20 40  
HORIZONTAL SCALE IN FEET

**PLAN - E. 105th STREET  
STA. 153+00 TO STA. 158+00**

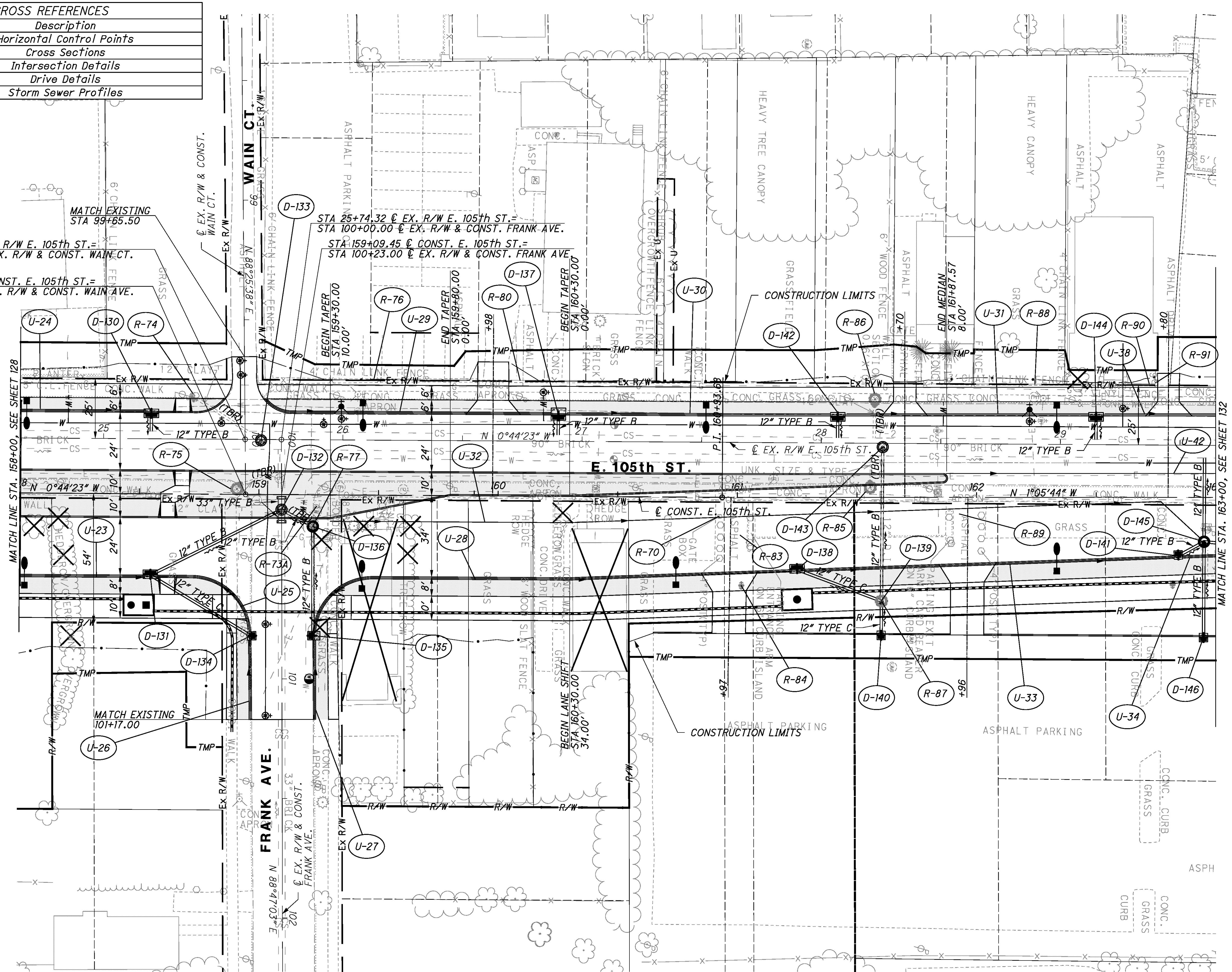
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CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
169-174	Cross Sections
228	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles

STA 25+59.16 @ EX. R/W E. 105th ST. =  
STA 100+00.00 @ EX. R/W & CONST. WAIN CT.

STA 100+58.26 @ CONST. E. 105th ST. =  
STA 100+23.00 @ EX. R/W & CONST. WAIN AVE.



MATCH LINE STA. 158+00, SEE SHEET 128

MATCH LINE STA. 163+00, SEE SHEET 132



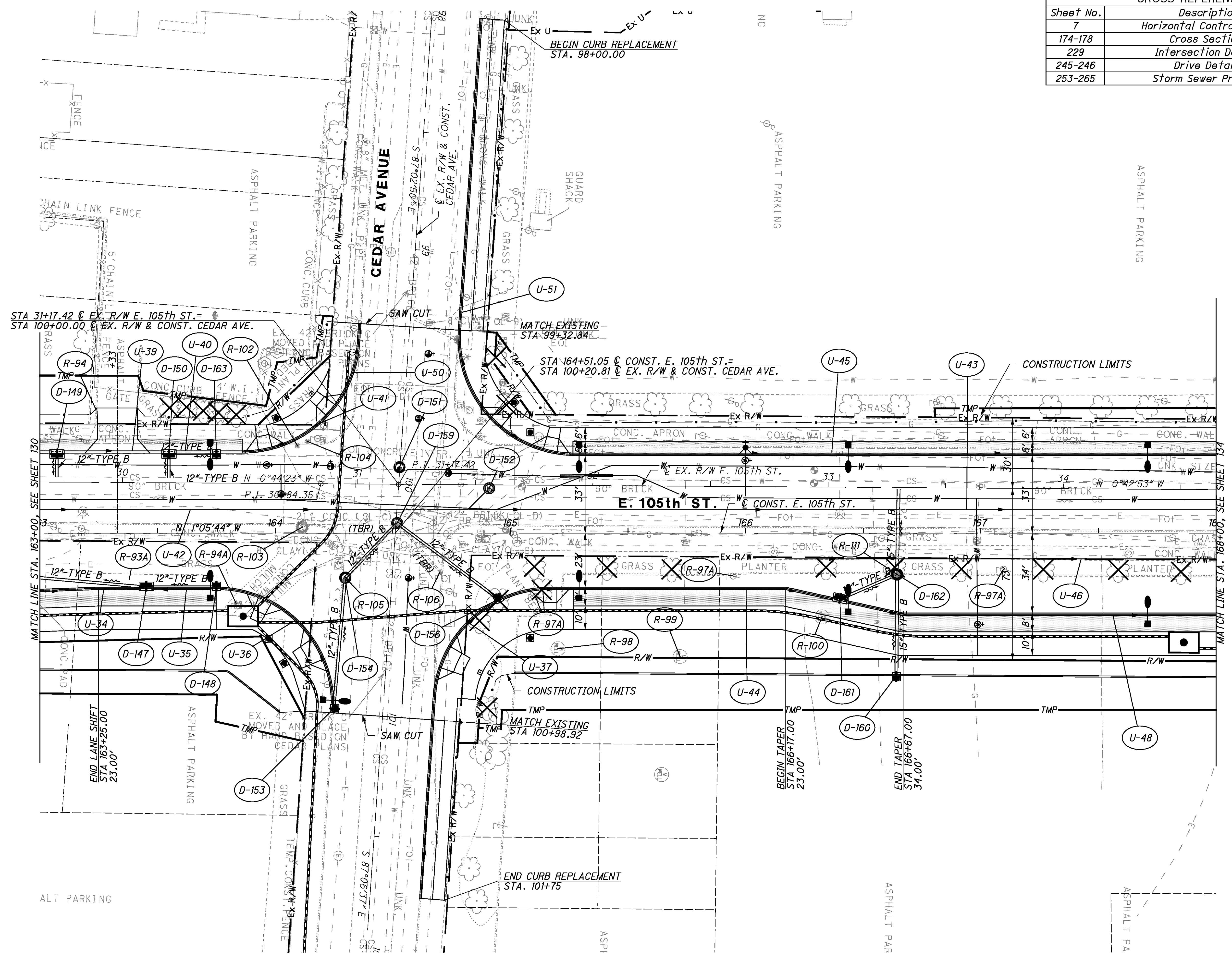
CALCULATED SGM  
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**PLAN - E. 105th STREET**  
**STA. 158+00 TO STA. 163+00**

**CUY-10-21.49**

130  
520





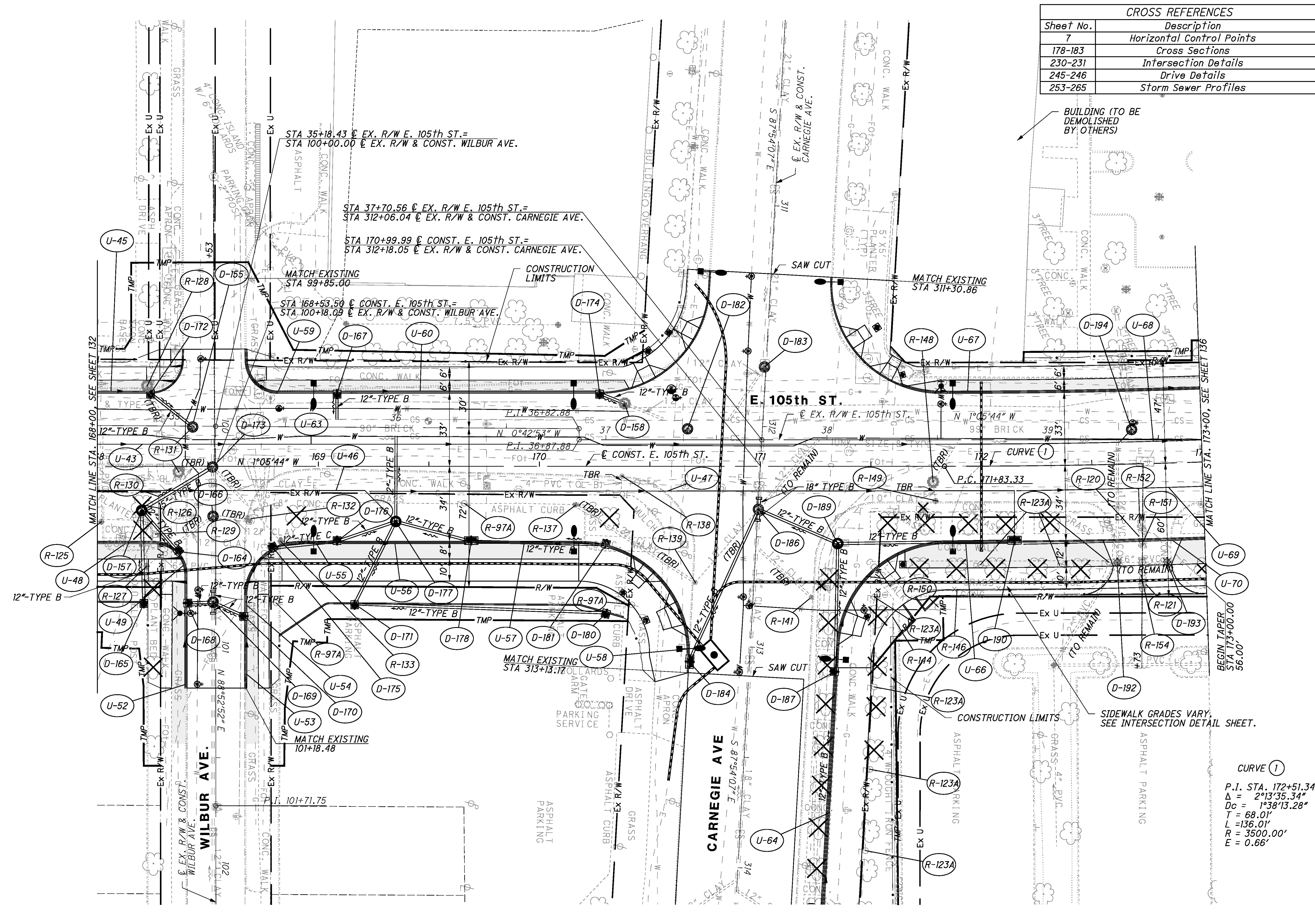
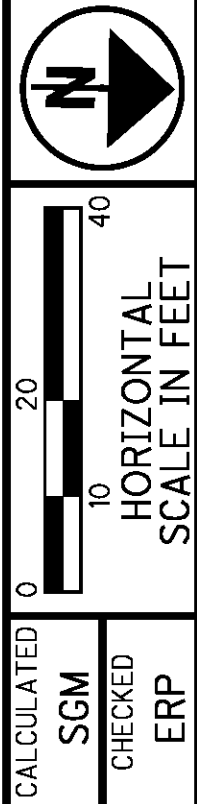
CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
174-178	Cross Sections
229	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles

CALCULATED SGM CHECKED ERP

0 20 40  
10  
HORIZONTAL SCALE IN FEET

**PLAN - E. 105th STREET  
STA. 163+00 TO STA. 168+00**

CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
178-183	Cross Sections
230-231	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles



CURVE 1  
 P.I. STA. 172+51.34  
 $\Delta = 2^{\circ}13'35.34''$   
 $D_c = 1^{\circ}38'13.28''$   
 $T = 68.01'$   
 $L = 136.01'$   
 $R = 3500.00'$   
 $E = 0.66'$

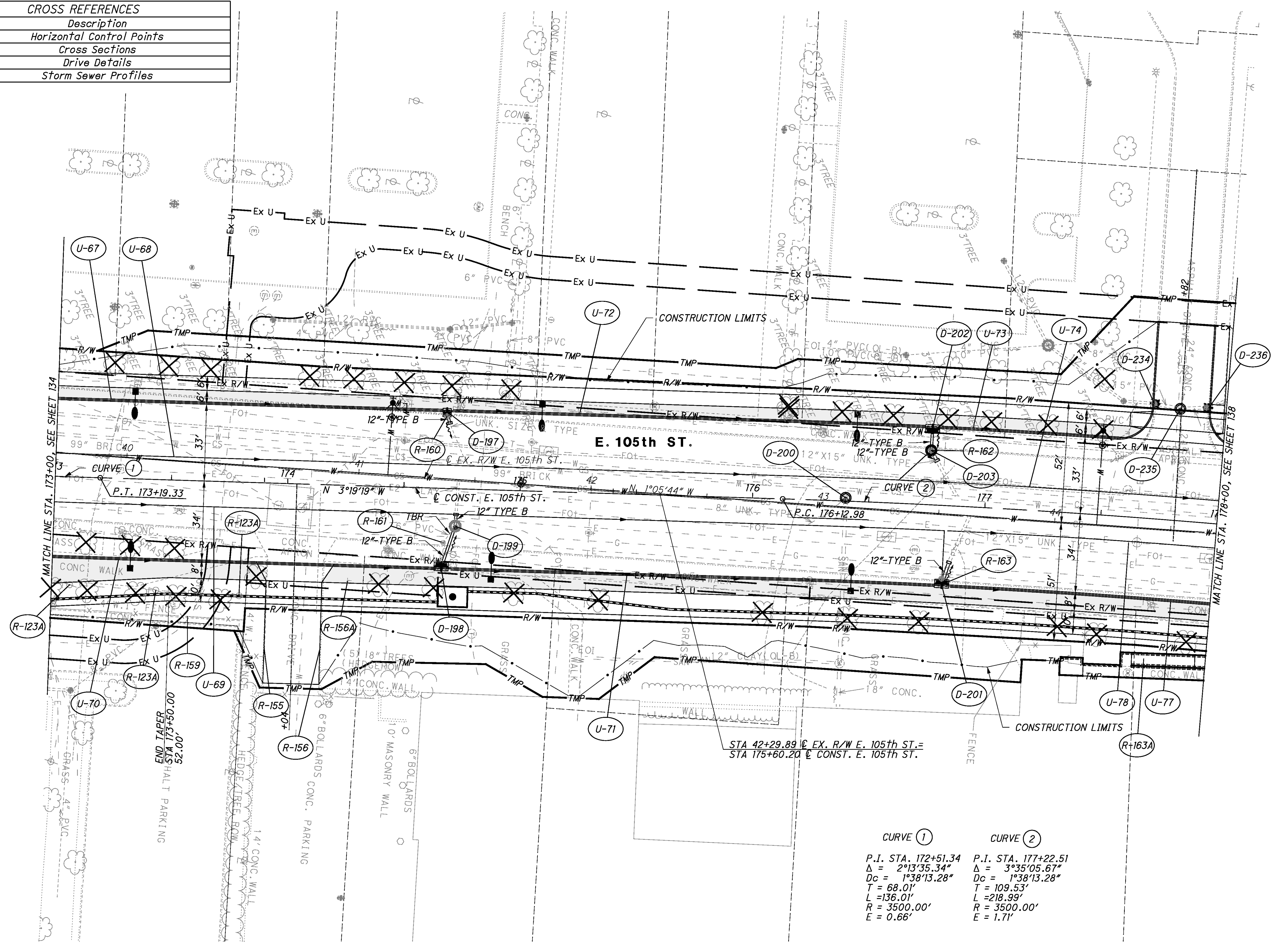
**PLAN - E. 105th STREET  
 STA. 168+00 TO STA. 173+00**

**CUY-10-21.49**

CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
183-188	Cross Sections
245-246	Drive Details
253-265	Storm Sewer Profiles

CALCULATED SGM CHECKED ERP

0 20 40  
10  
HORIZONTAL SCALE IN FEET



CURVE ①	CURVE ②
P.I. STA. 172+51.34	P.I. STA. 177+22.51
$\Delta = 2^{\circ}13'35.34''$	$\Delta = 3^{\circ}35'05.67''$
$Dc = 1^{\circ}38'13.28''$	$Dc = 1^{\circ}38'13.28''$
$T = 68.01'$	$T = 109.53'$
$L = 136.01'$	$L = 218.99'$
$R = 3500.00'$	$R = 3500.00'$
$E = 0.66'$	$E = 1.71'$

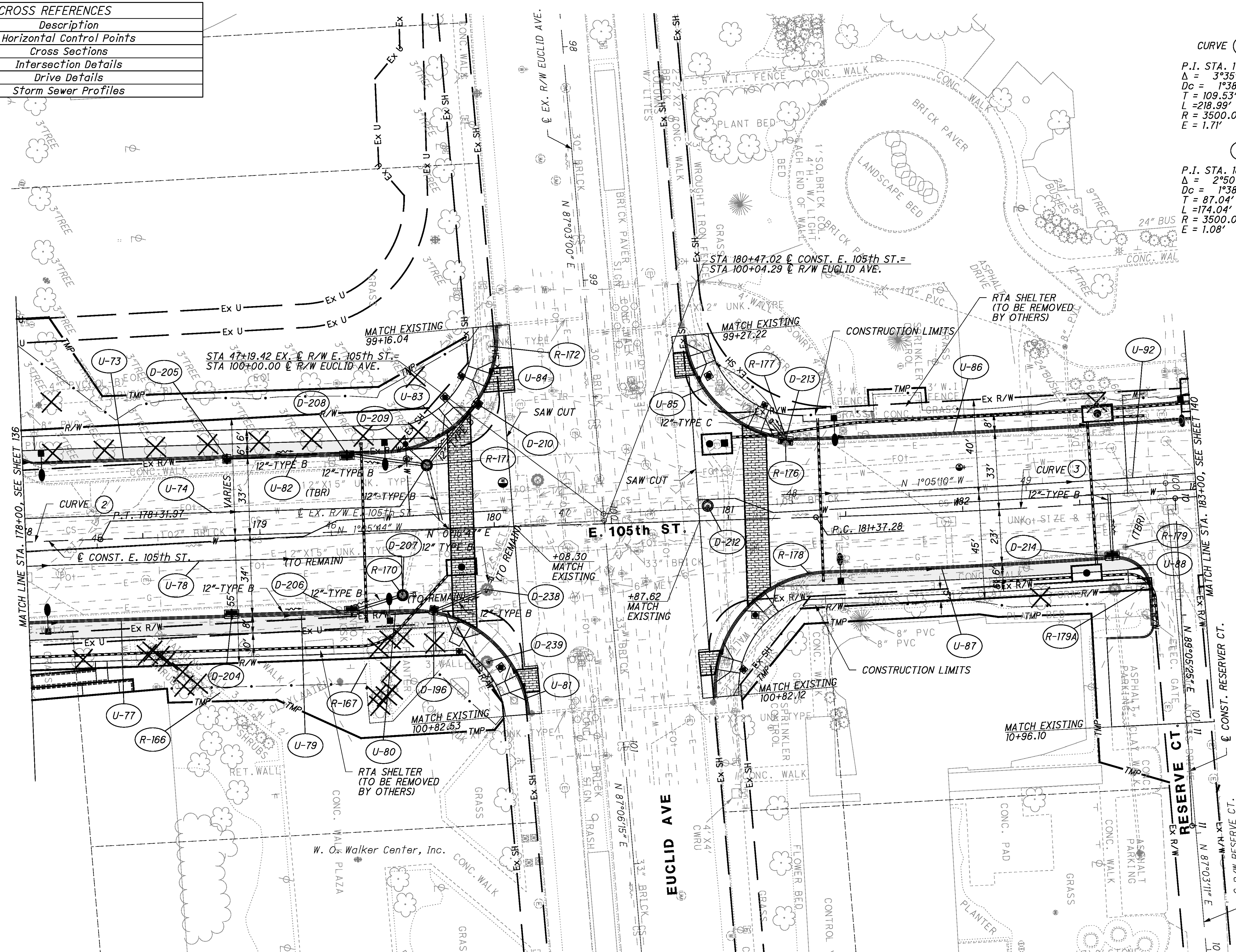
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**PLAN - E. 105th STREET  
STA. 173+00 TO STA. 178+00**

**CUY-10-21.49**

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CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
188-192	Cross Sections
232-233	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles



**CURVE ②**  
 P.I. STA. 177+22.51  
 $\Delta = 3^{\circ}35'05.67''$   
 $Dc = 1^{\circ}38'13.28''$   
 $T = 109.53'$   
 $L = 218.99'$   
 $R = 3500.00'$   
 $E = 1.71'$

**CURVE ③**  
 P.I. STA. 182+24.32  
 $\Delta = 2^{\circ}50'56.81''$   
 $Dc = 1^{\circ}38'13.28''$   
 $T = 87.04'$   
 $L = 174.04'$   
 $R = 3500.00'$   
 $E = 1.08'$



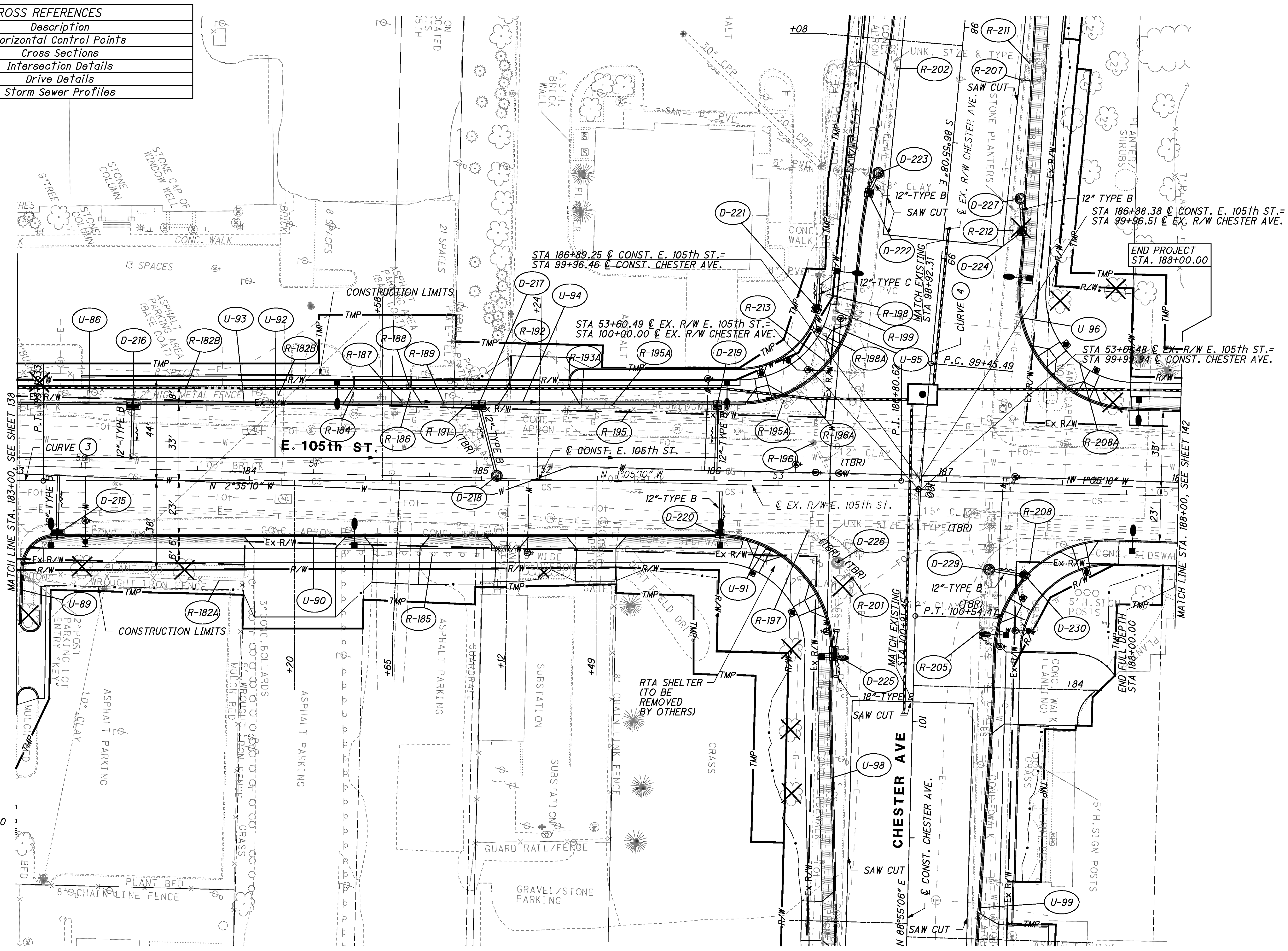
**PLAN - E. 105th STREET**  
**STA. 178+00 TO STA. 183+00**

**CUY-10-21.49**

138  
520

CALCULATED  
SGM  
CHECKED  
ERP

CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
192-197	Cross Sections
234	Intersection Details
245-246	Drive Details
253-265	Storm Sewer Profiles



**CURVE (3)**  
 P.I. STA. 182+24.32  
 $\Delta = 2^{\circ}50'56.81''$   
 $D_c = 1^{\circ}38'13.28''$   
 $T = 87.04'$   
 $L = 174.04'$   
 $R = 3500.00'$   
 $E = 1.08'$

**CURVE (4)**  
 P.I. STA. 100+00.00  
 $\Delta = 4^{\circ}09'46.07''$   
 $D_c = 3^{\circ}49'10.99''$   
 $T = 54.51'$   
 $L = 108.98'$   
 $R = 1500.00'$   
 $E = 0.99'$



CALCULATED  
 SGM  
 CHECKED  
 ERP

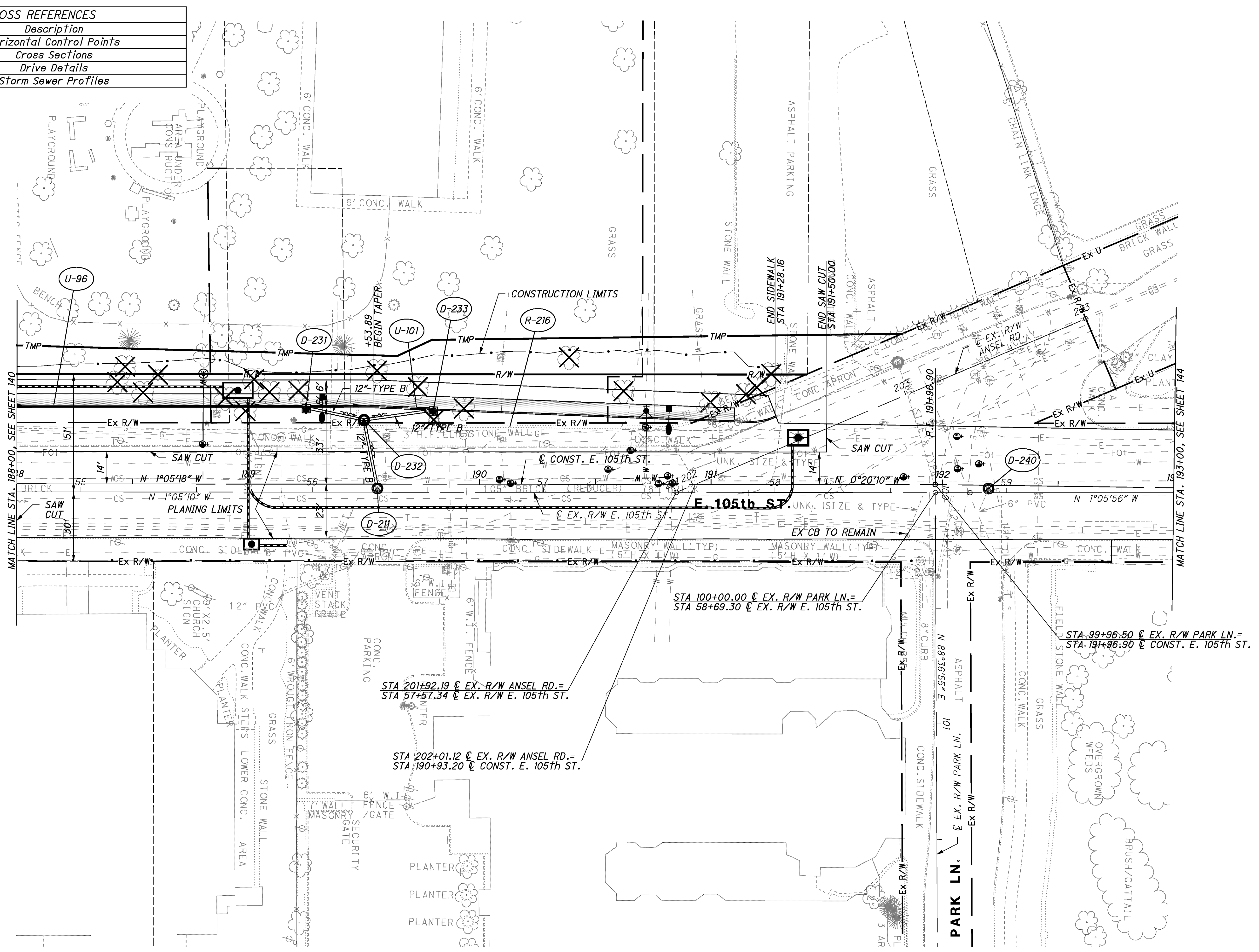
**PLAN - E. 105th STREET  
 STA. 183+00 TO STA. 188+00**

**CUY-10-21.49**

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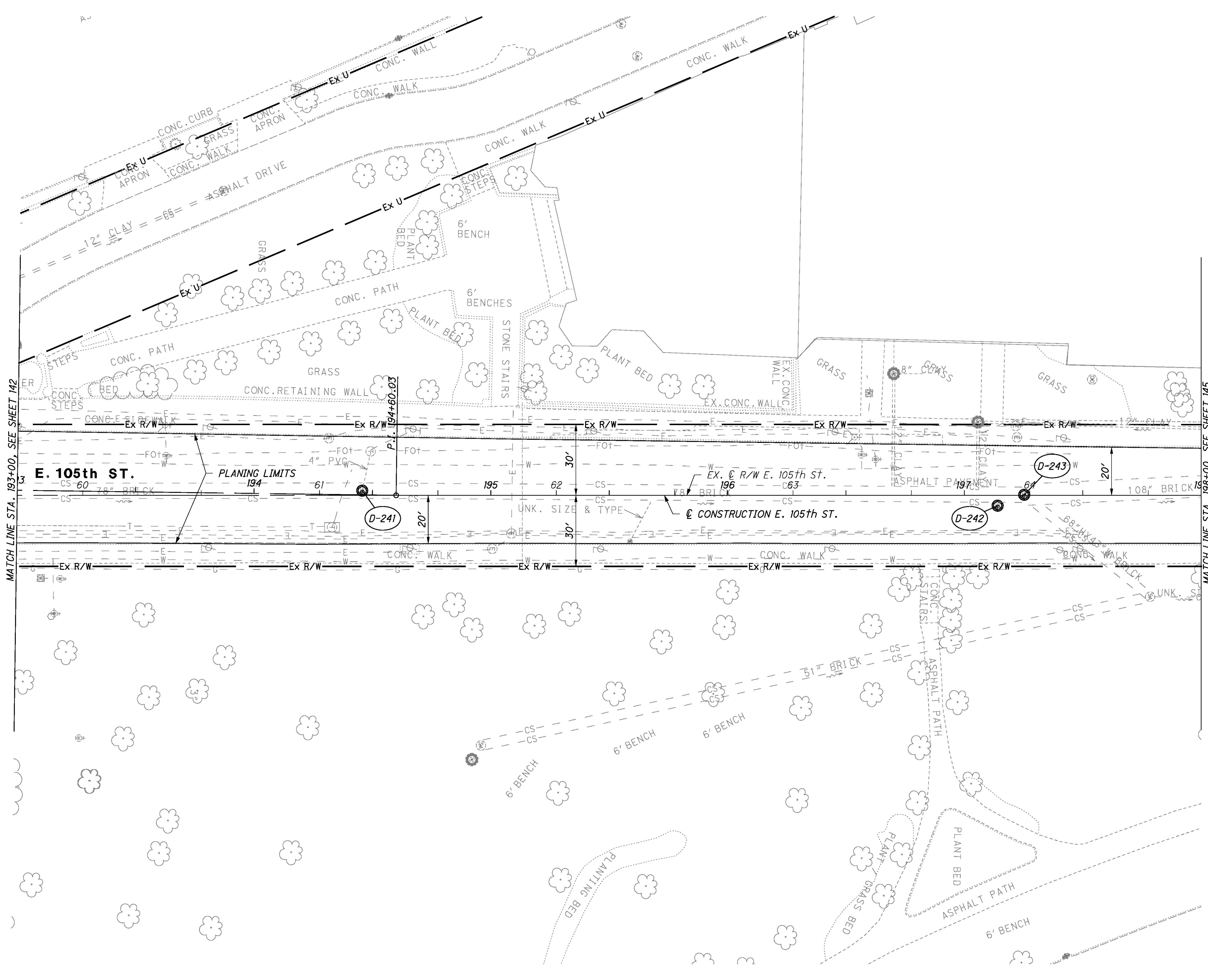
CROSS REFERENCES	
Sheet No.	Description
7	Horizontal Control Points
197-201	Cross Sections
245-246	Drive Details
253-265	Storm Sewer Profiles



CALCULATED  
SGM  
CHECKED  
ERP

0 20 40  
10  
HORIZONTAL  
SCALE IN FEET

**PLAN - E. 105th STREET**  
**STA. 188+00 TO STA. 193+00**

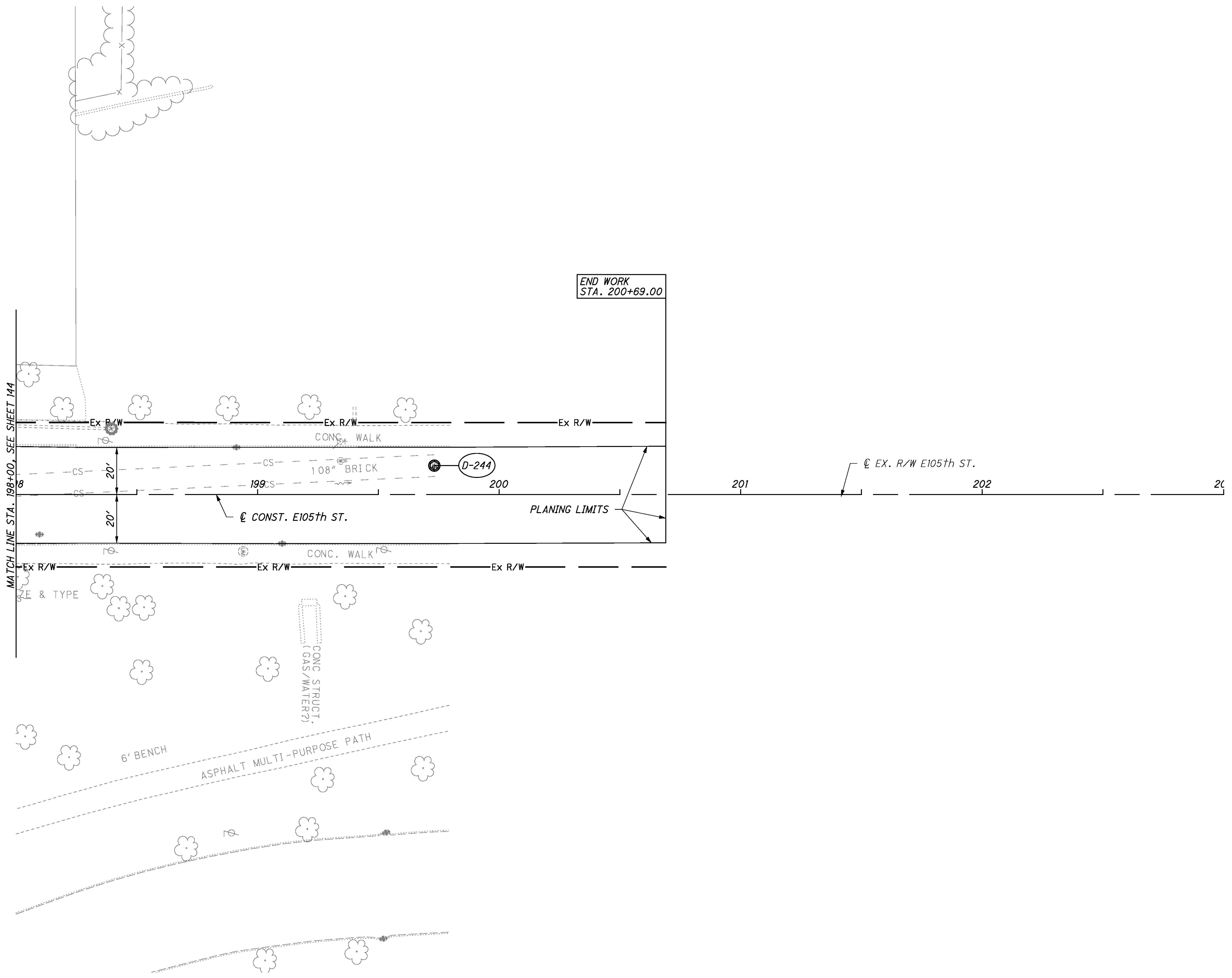


CALCULATED SGM CHECKED ERP

0 20 40  
10  
HORIZONTAL  
SCALE IN FEET

**PLAN - E. 105th STREET**  
**STA. 193+00 TO STA. 198+00**

**CUY-10-21.49**

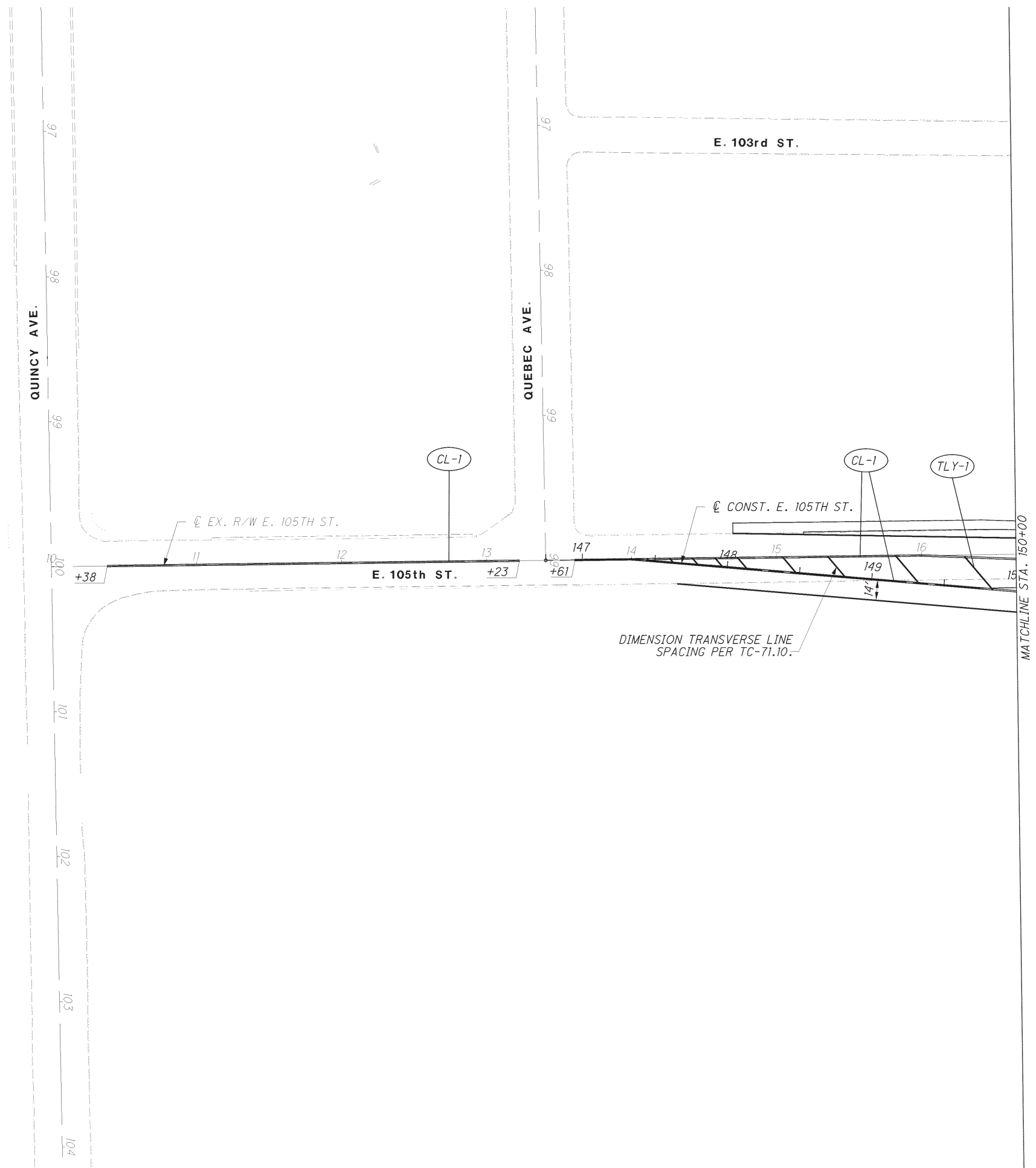




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PAVEMENT MARKING LEGEND

(CH) CHANNELIZING LINE (WHITE)	(LL) LANE LINE
(CHY) CHANNELIZING LINE (YELLOW)	(SCL) SHARED PATH CENTER LINE
(CL) CENTER LINE (DOUBLE SOLID YELLOW)	(SL) STOP LINE
(CLD) CENTER LINE (DASHED SOLID YELLOW)	(TL) TRANSVERSE LINE (WHITE)
(CW) CROSSWALK LINE	(TLY) TRANSVERSE LINE (YELLOW)
(CWA) CROSSWALK LINE, AS PER PLAN	(IMY) ISLAND MARKING (YELLOW)
(DCH) DOTTED CHANNELIZING LINE	
(LA) LANE ARROW	



CALCULATED NAA  
CHECKED ELJ

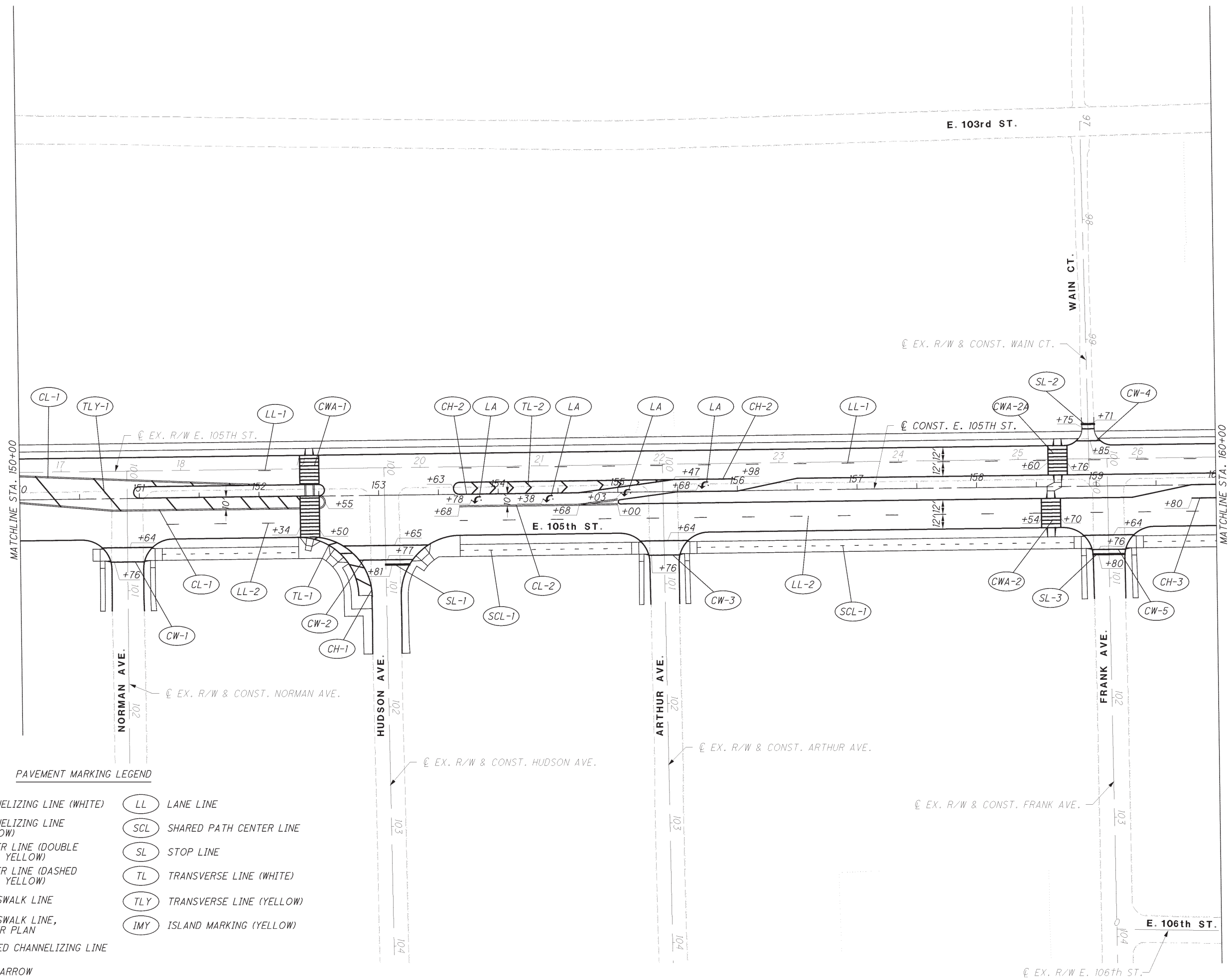
0 20 40 80  
HORIZONTAL SCALE IN FEET

**PAVEMENT MARKING PLAN**  
**E. 105th ST - BEGIN TO STA. 150+00**

**CUY - 10 - 21.49**

380  
520

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**PAVEMENT MARKING LEGEND**

- |   |                                |
|---|--------------------------------|
| (CH) CHANNELIZING LINE (WHITE)          | (LL) LANE LINE                 |
| (CHY) CHANNELIZING LINE (YELLOW)        | (SCL) SHARED PATH CENTER LINE  |
| (CL) CENTER LINE (DOUBLE SOLID YELLOW)  | (SL) STOP LINE                 |
| (CLD) CENTER LINE (DASHED SOLID YELLOW) | (TL) TRANSVERSE LINE (WHITE)   |
| (CW) CROSSWALK LINE                     | (TLY) TRANSVERSE LINE (YELLOW) |
| (CWA) CROSSWALK LINE, AS PER PLAN       | (IMY) ISLAND MARKING (YELLOW)  |
| (DCH) DOTTED CHANNELIZING LINE          |                                |
| (LA) LANE ARROW                         |                                |



CALCULATED: NAA  
 CHECKED: ELJ

**PAVEMENT MARKING PLAN**  
**E. 105th ST - STA. 150+00 TO STA. 160+00**

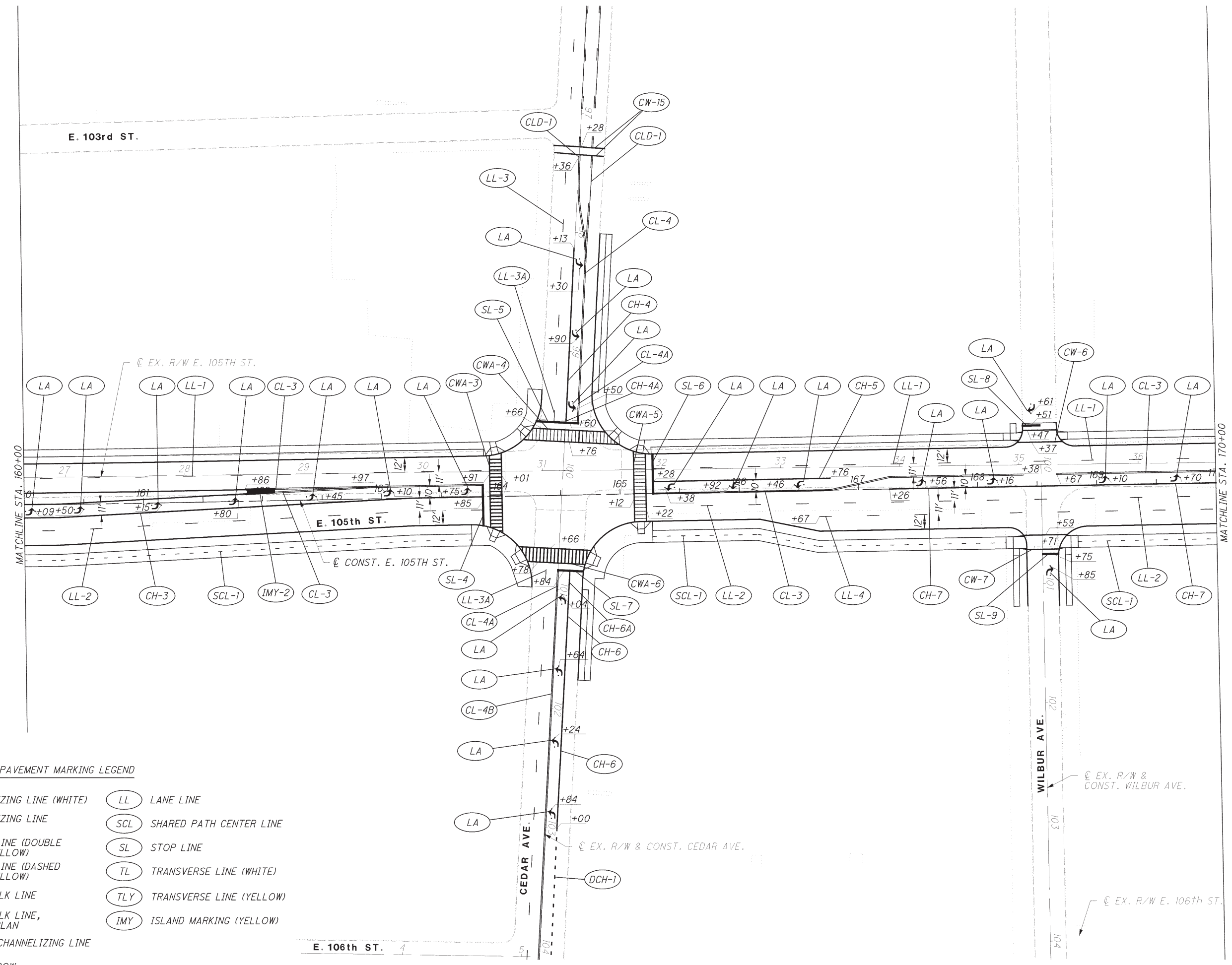
**CUY-10-21.49**

381  
 520

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PAVEMENT MARKING LEGEND

- |       |                                   |       |                          |
|-------|-----------------------------------|-------|--------------------------|
| (CH)  | CHANNELIZING LINE (WHITE)         | (LL)  | LANE LINE                |
| (CHY) | CHANNELIZING LINE (YELLOW)        | (SCL) | SHARED PATH CENTER LINE  |
| (CL)  | CENTER LINE (DOUBLE SOLID YELLOW) | (SL)  | STOP LINE                |
| (CLD) | CENTER LINE (DASHED SOLID YELLOW) | (TL)  | TRANSVERSE LINE (WHITE)  |
| (CW)  | CROSSWALK LINE                    | (TLY) | TRANSVERSE LINE (YELLOW) |
| (CWA) | CROSSWALK LINE, AS PER PLAN       | (IMY) | ISLAND MARKING (YELLOW)  |
| (DCH) | DOTTED CHANNELIZING LINE          |       |                          |
| (LA)  | LANE ARROW                        |       |                          |

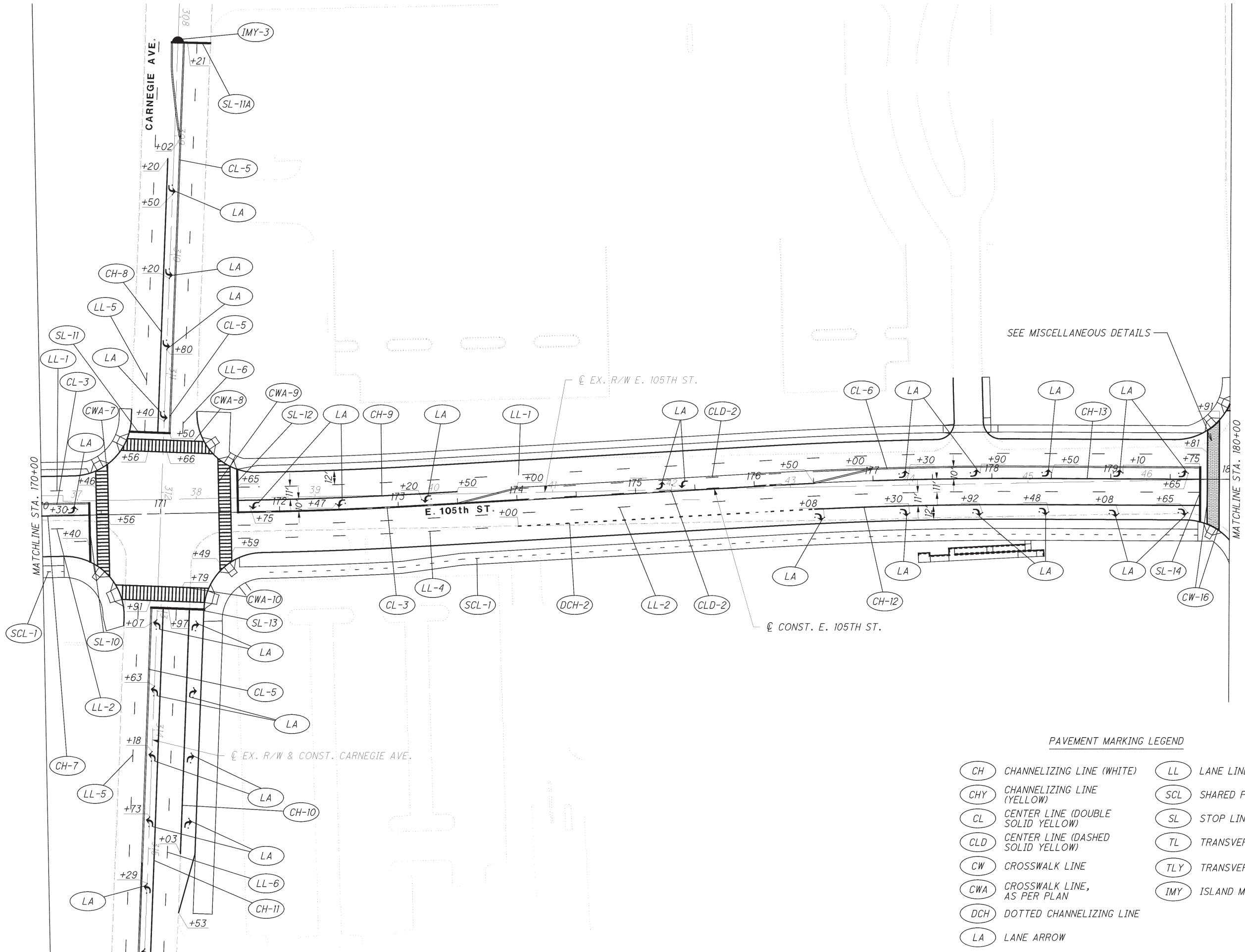


CALCULATED NAA  
CHECKED ELJ

0 20 40 80  
HORIZONTAL SCALE IN FEET

PAVEMENT MARKING PLAN  
E. 105th ST - STA. 160+00 TO STA. 170+00

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SEE MISCELLANEOUS DETAILS

PAVEMENT MARKING LEGEND

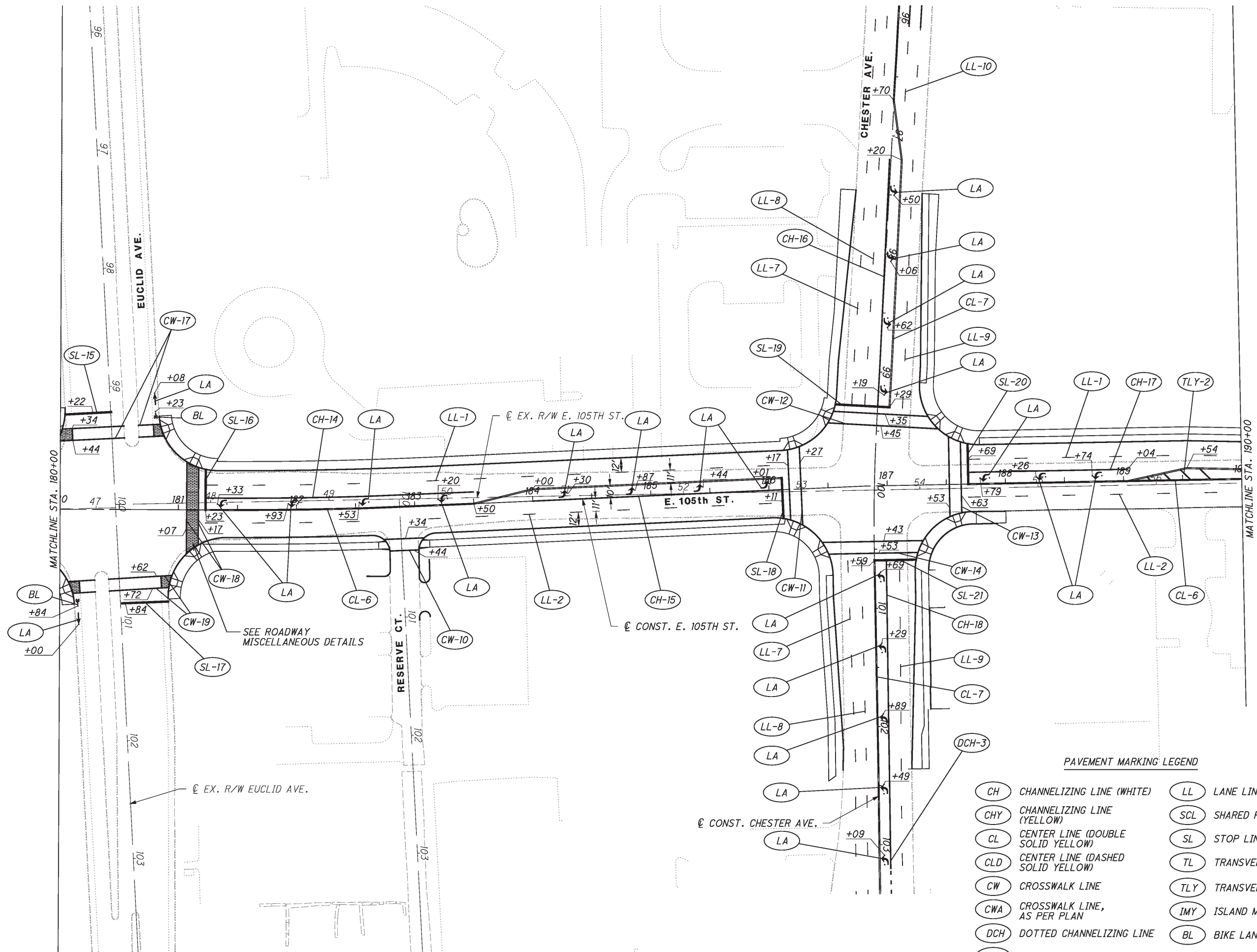
- |   |                                |
|---|--------------------------------|
| (CH) CHANNELIZING LINE (WHITE)          | (LL) LANE LINE                 |
| (CHY) CHANNELIZING LINE (YELLOW)        | (SCL) SHARED PATH CENTER LINE  |
| (CL) CENTER LINE (DOUBLE SOLID YELLOW)  | (SL) STOP LINE                 |
| (CLD) CENTER LINE (DASHED SOLID YELLOW) | (TL) TRANSVERSE LINE (WHITE)   |
| (CW) CROSSWALK LINE                     | (TLY) TRANSVERSE LINE (YELLOW) |
| (CWA) CROSSWALK LINE, AS PER PLAN       | (IMY) ISLAND MARKING (YELLOW)  |
| (DCH) DOTTED CHANNELIZING LINE          |                                |
| (LA) LANE ARROW                         |                                |



CALCULATED NAA  
CHECKED ELJ

PAVEMENT MARKING PLAN  
E. 105th ST - STA. 170+00 TO STA. 180+00

CUY-10-21.49



PAVEMENT MARKING LEGEND

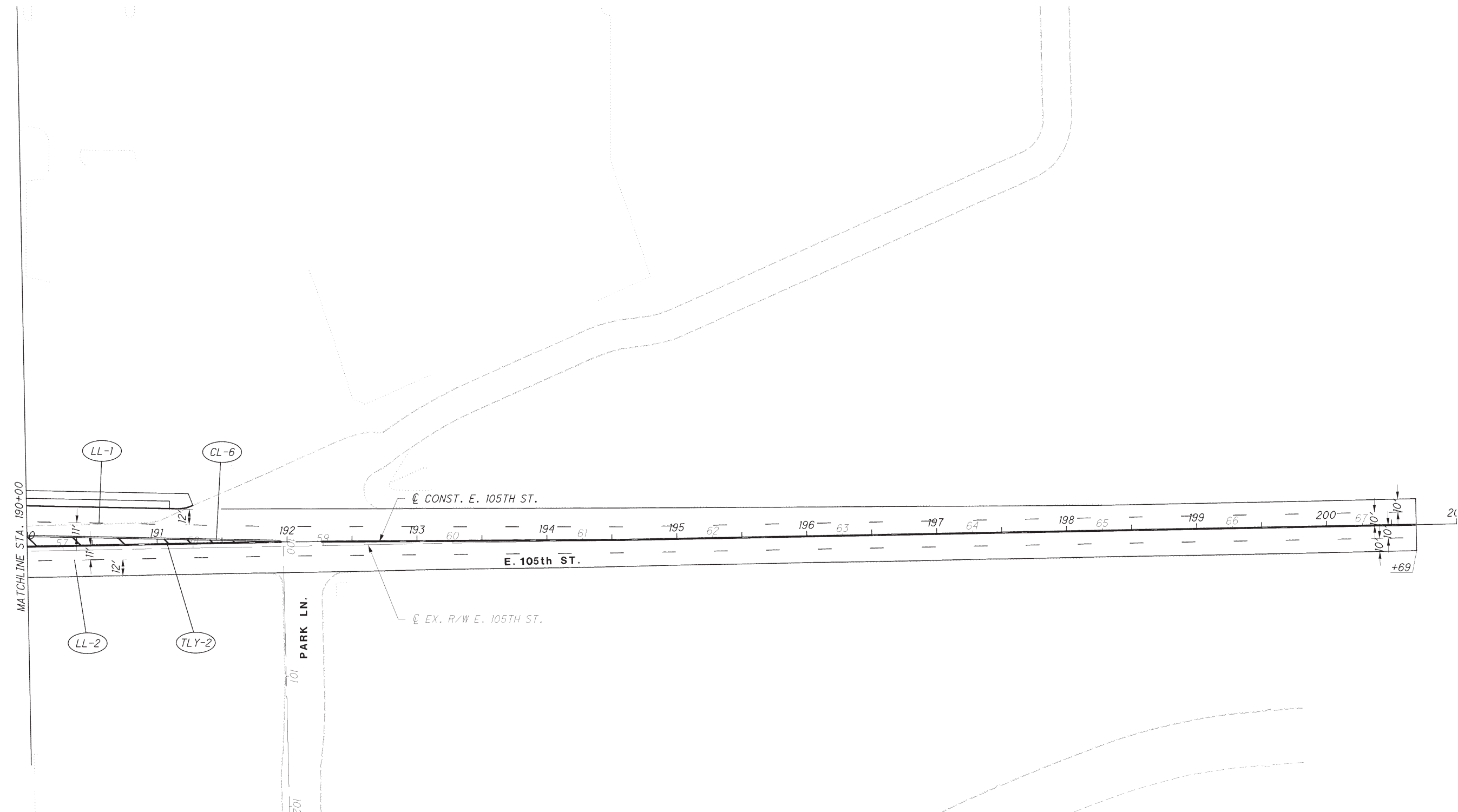
- |   |                                |
|---|--------------------------------|
| (CH) CHANNELIZING LINE (WHITE)          | (LL) LANE LINE                 |
| (CHY) CHANNELIZING LINE (YELLOW)        | (SCL) SHARED PATH CENTER LINE  |
| (CL) CENTER LINE (DOUBLE SOLID YELLOW)  | (SL) STOP LINE                 |
| (CLD) CENTER LINE (DASHED SOLID YELLOW) | (TL) TRANSVERSE LINE (WHITE)   |
| (CW) CROSSWALK LINE                     | (TLY) TRANSVERSE LINE (YELLOW) |
| (CWA) CROSSWALK LINE, AS PER PLAN       | (IMY) ISLAND MARKING (YELLOW)  |
| (DCH) DOTTED CHANNELIZING LINE          | (BL) BIKE LANE SYMBOL MARKING  |
| (LA) LANE ARROW                         |                                |

CALCULATED NAA  
CHECKED ELJ

HORIZONTAL SCALE IN FEET

PAVEMENT MARKING PLAN  
E. 105th ST - STA. 180+00 TO STA. 190+00

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PAVEMENT MARKING LEGEND

- |   |                                |
|---|--------------------------------|
| (CH) CHANNELIZING LINE (WHITE)          | (LL) LANE LINE                 |
| (CHY) CHANNELIZING LINE (YELLOW)        | (SCL) SHARED PATH CENTER LINE  |
| (CL) CENTER LINE (DOUBLE SOLID YELLOW)  | (SL) STOP LINE                 |
| (CLD) CENTER LINE (DASHED SOLID YELLOW) | (TL) TRANSVERSE LINE (WHITE)   |
| (CW) CROSSWALK LINE                     | (TLY) TRANSVERSE LINE (YELLOW) |
| (CWA) CROSSWALK LINE, AS PER PLAN       | (IMY) ISLAND MARKING (YELLOW)  |
| (DCH) DOTTED CHANNELIZING LINE          |                                |
| (LA) LANE ARROW                         |                                |

CALCULATED: NAA  
 CHECKED: ELJ

0 20 40 80  
 HORIZONTAL SCALE IN FEET

**PAVEMENT MARKING PLAN**  
**E. 105th ST - STA. 190+00 TO STA. 200+69**

**CUY - 10 - 21.49**

385  
520