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CUY-90-17.25±

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CUY-42-19.28
CUY-322-(1.08-1.39)
CUYAHOGA COUNTY
CITY of CLEVELAND

U-234(2)

AC I-1057(8)
LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a Limited Access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	ACI-1057(8) U-234(2)	

1 / 124

CUYAHOGA COUNTY
CUY-42-19.28
CUY-322-(1.08-1.39)

MAR 28 1962 GROUND PHOTOLAB

FEDERAL PROJECT Nº I-1057(8) APPEARING ELSEWHERE IN PLANS SHALL BE CONSIDERED TO READ AC I-1057(8)

The standard specifications of The State of Ohio Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of U.S.R. 42, but will require the closing to Westbound traffic of U.S.R. 322 during which time detours will be provided as shown hereon. Provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

The right of way for this improvement will be provided by The State of Ohio.

Approved *Arthur A. Enders*
Date 10-4-57 Division Deputy Director

Approved *L. H. Mahuevar*
Date 11-8-57 Deputy Director of Planning and Programming

Approved *D.H. Overman*
Date 11-5-57 Engineer of Bridges

Approved *R.E. Shultz*
Date 11-6-57 Engineer of Location and Design

Approved *R.E. Masheter*
Date 11-6-57 Deputy Director of Design and Construction

Approved *[illegible]*
Date 11/9/57 First Assistant Director

Approved
Date Acting Director of Highways

Approved *Louis L. Drasler*
Date 10/18/57 Director of Public Service, City of Cleveland

SECTION Nº CUY-42 R-18.81 APPEARING THROUGHOUT THESE PLANS SHALL BE CONSIDERED TO READ CUY-42-19.28.
PART I REFERS TO THESE PLANS.
PART II IS NOT A PART OF THIS CONTRACT.

CONVENTIONAL SIGNS

SECTION LINE
CENTER LINE
PROPERTY LINE
FENCE LINE
POLE LINE
RAILROAD
GUARD RAIL

INDEX OF SHEETS

TITLE SHEET	1
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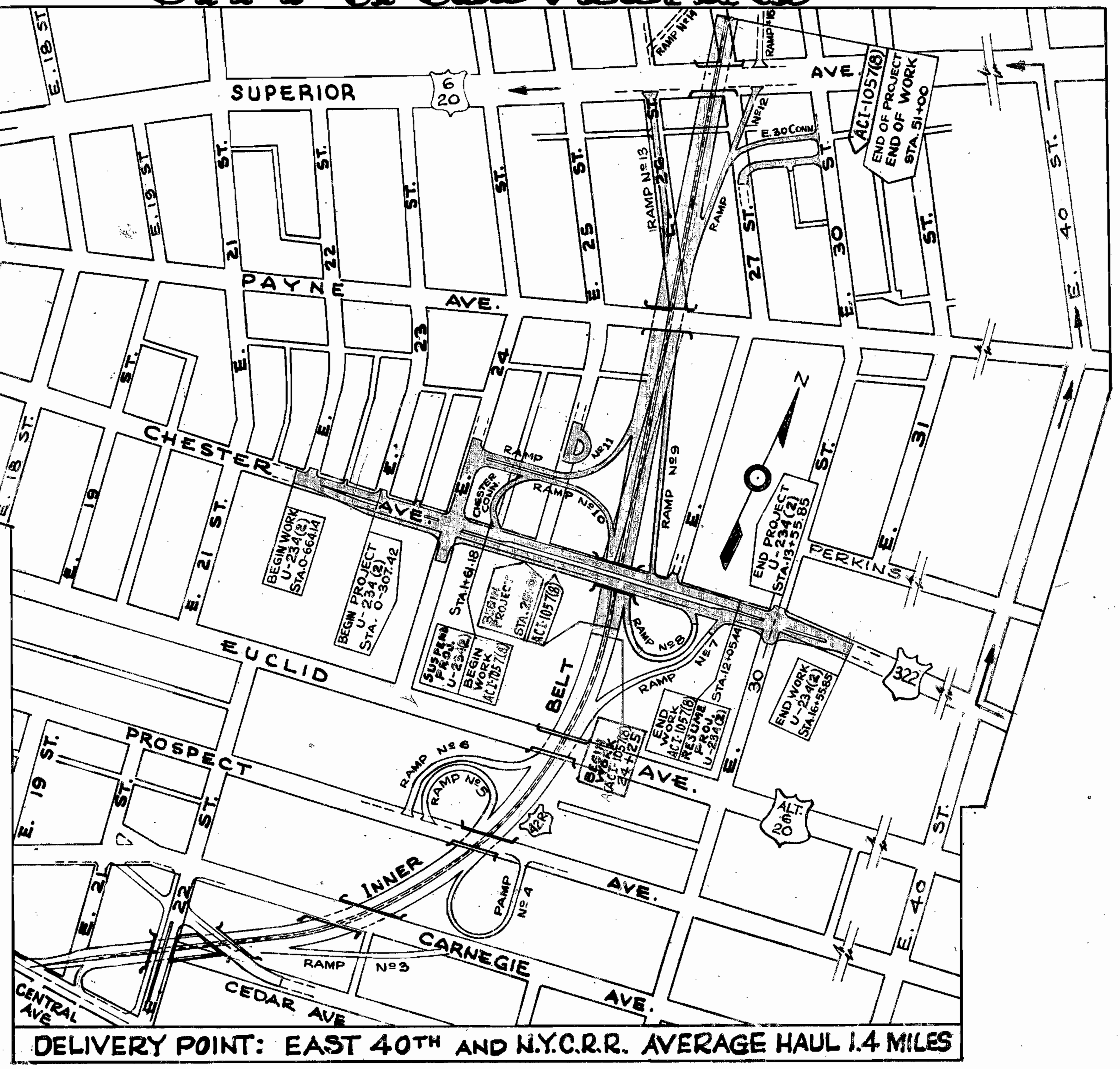
STREET LIGHTING PLANS	95 - 99
BRIDGE PLANS	99A & 100-124 99B

Sheets 1, 119 and 123 revised 6-13-58
~~Sheets 101, 103 and 108 revised 10/9/58~~
Sheet 103A added 10/9/58



LOCATION PLAN

SCALE IN FEET 1" = 400'

DETOUR
PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER HIGHWAYS

SCALES

PLAN	1" = 50'
PROFILE HOR.	1" = 50'
PROFILE VER.	1" = 10'

LINE DATA

LENGTHS OF PROJECTS:

PROJECT ACI-1057(8):
Begin Project Sta. 25+00
End Project Sta. 51+00 = 2600.00 Lin. Ft.
Add for Equation (Sta. 27+09.87 Back = Sta 26+61.13 Ahead) = 48.74 " "
NET LENGTH OF PROJECT ACI-1057(8) = 2648.74 LIN. FT. or 0.501 MILE

PROJECT U-234(2):
Begin Project Sta. 0-307.42
End Project Sta. 13+55.85 = 1663.27 Lin. Ft.
Deduct for Interstate Work (Sta. 1+61.18 to Sta. 12+05.44) = 1044.26 " "
NET LENGTH OF PROJECT U-234(2): = 619.01 LIN. FT. or 0.117 MILE

Total Length of project = 3267.75 Lin. Ft. or 0.618 Mile.

LENGTHS OF WORK:

PROJECT ACI-1057(8)
Net Length of Project = 2648.74 Lin. Ft.
Add for work Sta. 24+25 to Sta. 25+00 = 75.00 Lin. Ft.
Begin Work Chester Ave. Sta. 1+61.18
End Work Chester Ave. Sta. 12+05.44 = 1044.26 " "
NET LENGTH OF WORK ACI-1057(8) = 3768.00 LIN. FT. or 0.713 MILE

PROJECT U-234(2):
Net Length of Project = 619.01 Lin. Ft.
Begin Work Sta. 0-664.14
Begin Project Sta. 0-307.42 = 356.72 " "
End Project Sta. 13+55.85
End Work Sta. 16+55.85 = 300.00 " "
NET LENGTH OF WORK U-234(2): = 1275.73 LIN. FT. or 0.241 MILE

Total Length of Work = 5043.73 Lin. Ft. or 0.955 Mile.

FILE NO.	
	CUY-42-19.28 & CUY-322-(1.08-1.39)
	CUYAHOGA COUNTY CITY of CLEVELAND
	DATE of LETTING ________ 195
	CONTRACT NO. ________

STANDARD DRAWINGS

DR-1	1-3-55		
RI-1	1-3-55		
G-7.07	6-1-56	I-1,2,3,4&5	2-20-45
T-35	1-2-56	I-8 CB 2-2A&B	8-1-56
B-T-50-70-71	E Nº1 10-1-47	I-8 M.H. Nº1	5-1-52
B-T-71 R	3-2-53	I-8 M.H. Nº 1A	1-3-55
T.J.	5-1-56	I-8 Nº2	5-1-52
L.J. Nº1	7-1-55		7-1-54

STANDARD DRAWINGS

I-14 G	1-22-52	AS-1-54	12-1-54
I-15 Nº1	8-1-55	RB-1-55	3-1-55
		I-21-23	8-1-56
I-15 Nº2-A	6-1-57	CSB-2-56 (Sheet 3)	12-3-56
I-15 Nº2-B	6-1-57		
L-1	4-1-50		
L-3	4-1-50		
L-3-A	4-1-50		

SUPPLEMENTAL SPECIFICATIONS

5	6-8-55		
E-101	1-1-57		
S-114	Rev. 8-1-57		

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER DATE

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1057 (6) U-234 (2)	

2/124

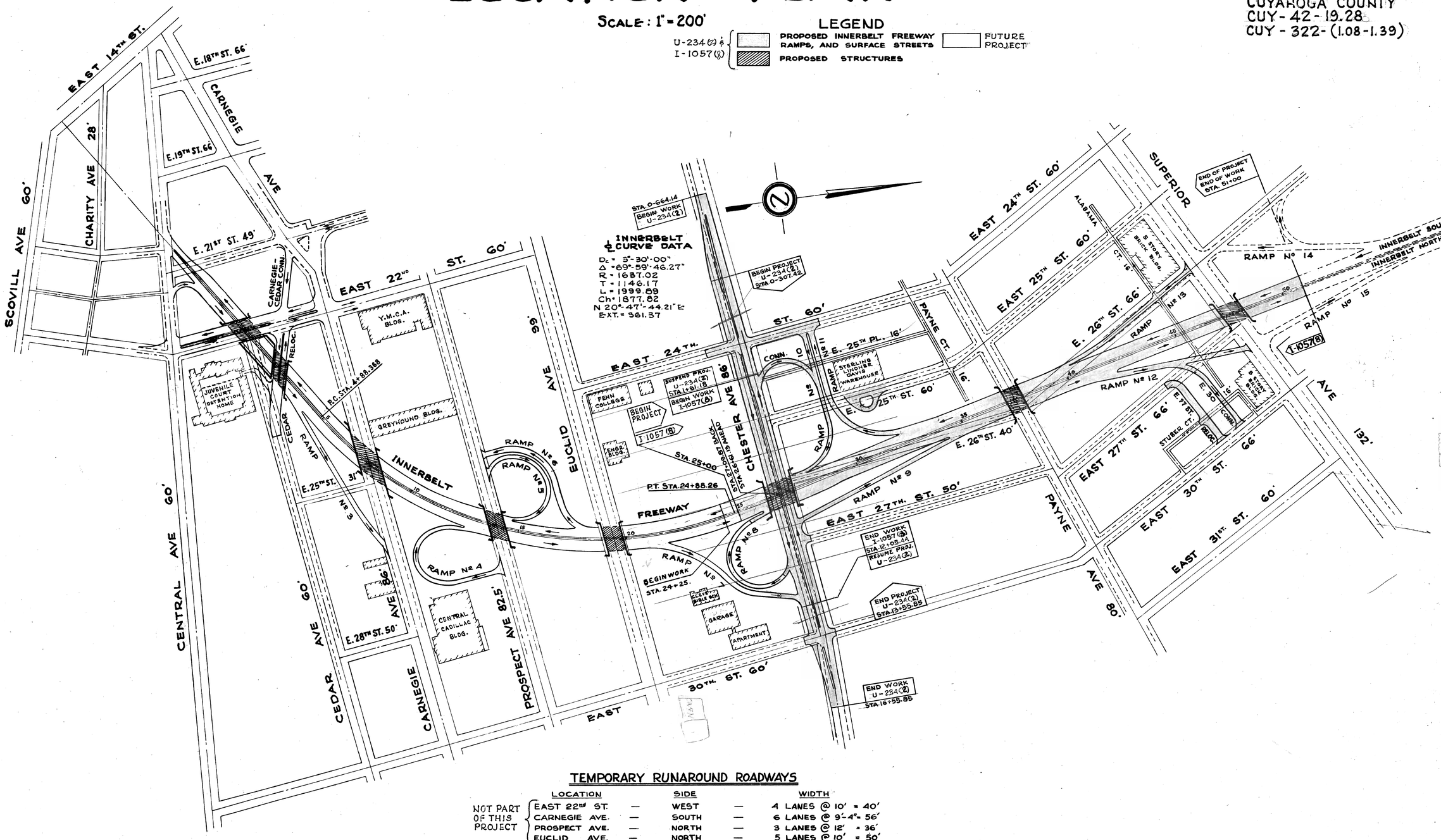
CUYAHOGA COUNTY
CUY-42-19.28
CUY-322-(1.08-1.39)

LOCATION PLAN

SCALE: 1" = 200'

LEGEND

U-234(2) & I-1057(6)
- PROPOSED INNERBELT FREEWAY RAMPS, AND SURFACE STREETS
- PROPOSED STRUCTURES
- FUTURE PROJECT



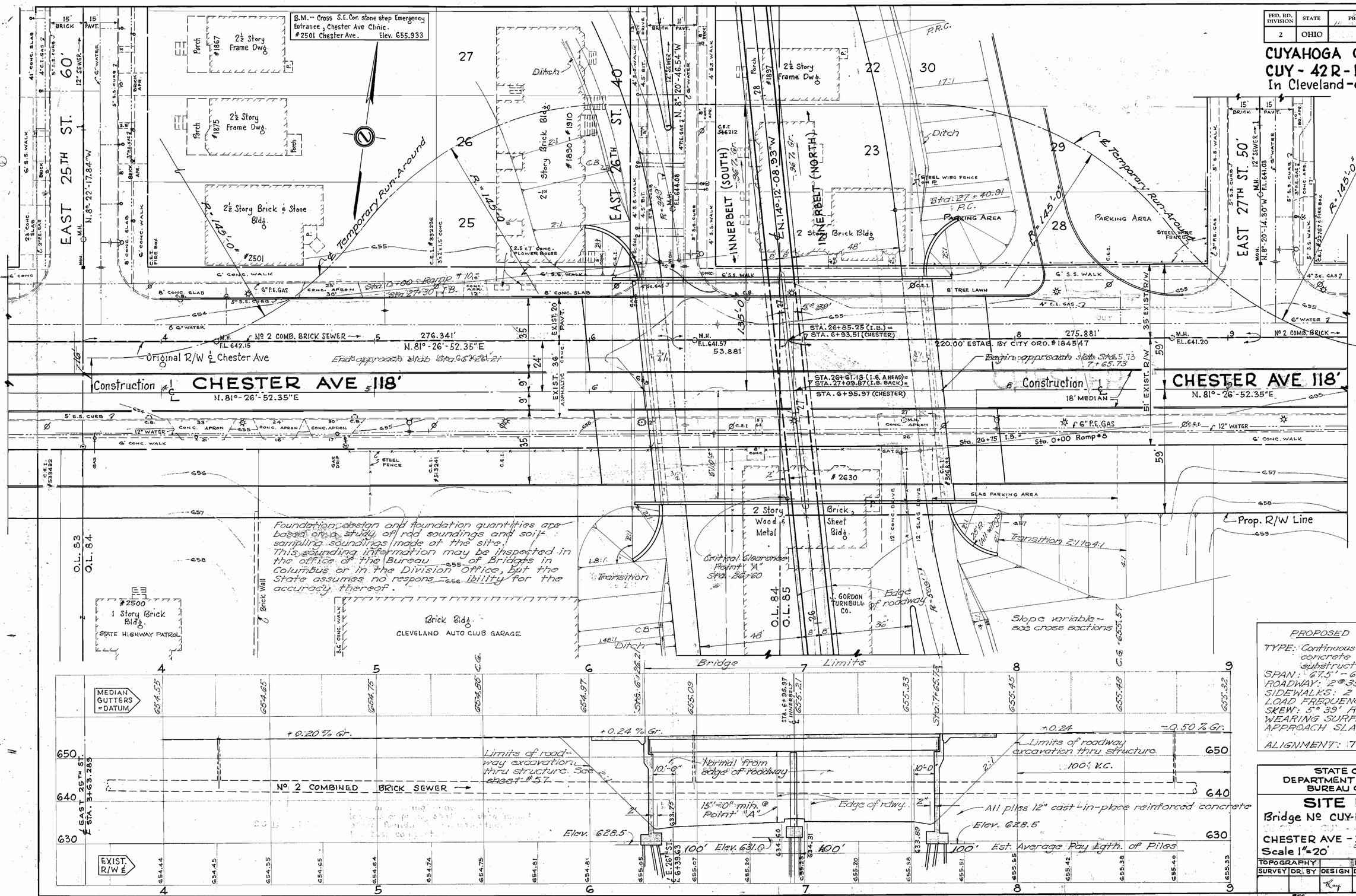
TEMPORARY RUNAROUND ROADWAYS

	LOCATION		SIDE		WIDTH
NOT PART OF THIS PROJECT	EAST 22nd ST.	—	WEST	—	4 LANES @ 10' = 40'
	CARNEGIE AVE.	—	SOUTH	—	6 LANES @ 9'-4" = 56'
	PROSPECT AVE.	—	NORTH	—	3 LANES @ 12' = 36'
	EUCLID AVE.	—	NORTH	—	5 LANES @ 10' = 50'
	CHESTER AVE.	—	NORTH	—	6 LANES @ 9'-4" = 56'
	PAYNE AVE.	—	NORTH	—	3 LANES @ 12' = 36'
	SUPERIOR AVE.	—	SOUTH	—	5 LANES @ 10' = 50'

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

100/124

CUYAHOGA COUNTY
CUY - 42 R - 18.81
In Cleveland - CUY-322-(1.08-1.39)



PROPOSED STRUCTURE

TYPE: Continuous steel beams with concrete deck and concrete substructure.
SPAN: 67.5' - 67.5' c/c bearings.
ROADWAY: 2 @ 35' f/f curbs.
SIDEWALKS: 2 @ 8' on outside.
LOAD FREQUENCY: CF-2000 (51)
SKEW: 5° 39' R.F.
WEARING SURFACE: Bituminous.
APPROACH SLABS: AS-1-54 (25' long).
ALIGNMENT: Tangent.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN
Bridge No CUY-42-1932

CHESTER AVE - INNERBELT BRIDGE
STA. 26+61.13 (I.B. AHEAD)
Scale 1"=20'
Cuyahoga County

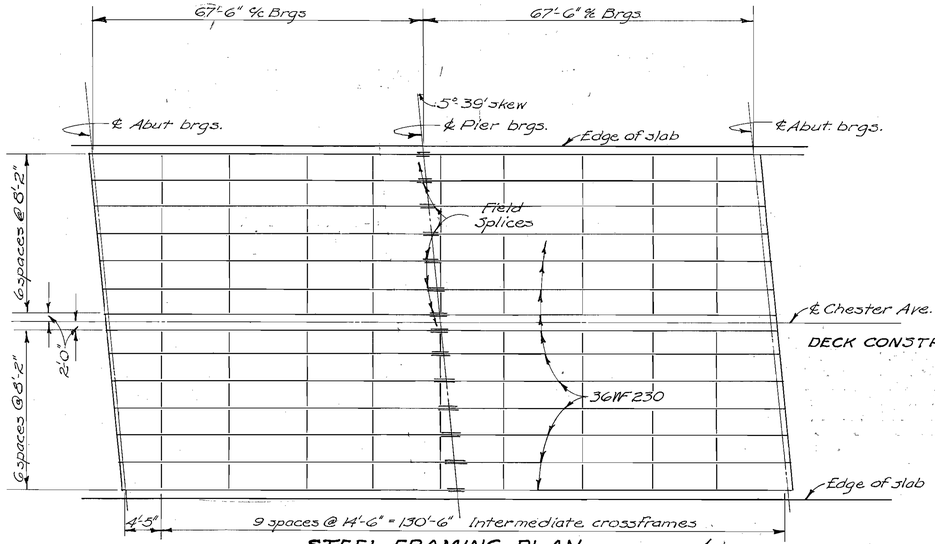
TOPOGRAPHY		PROPOSED WORK				
SURVEY	DR. BY	DESIGN	DR. BY	CH'K'D.	REVIEWED	DATE
		Ray	Ray	J.E.P.	P.E.S.	

SITE PLAN -- CHESTER AVE - INNERBELT BRIDGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

106/124

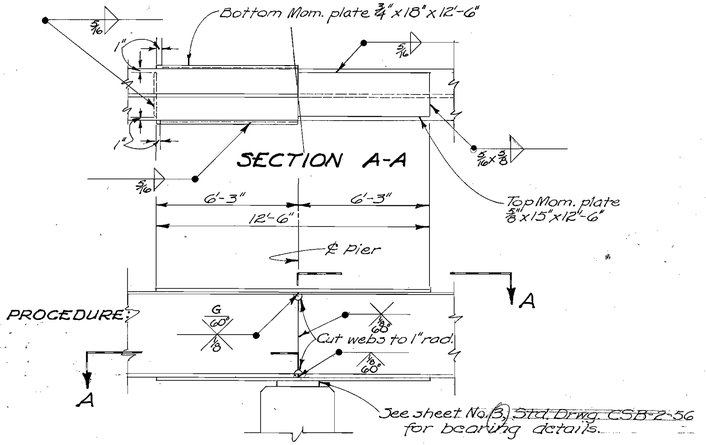
CUYAHOGA COUNTY
CUY-42R-18.81
CUY-322-(1.08-1.39)



STEEL FRAMING PLAN

For bearing plate details see sheet No. 3, Std. Drwg. CSB-2-56

DECK CONSTRUCTION PROCEDURE



BEAM SPLICE DETAILS

BEAM SPLICE WELDING PROCEDURE

1. Raise the end of beam at one abut. 1½"
2. Butt-weld the beam flanges and web using the following sequence: make one pass on each flange, then one on the web; repeat until welds are completed.
3. Weld the bottom and top moment plates.
4. Lower the beam end to final position.

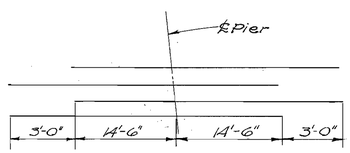
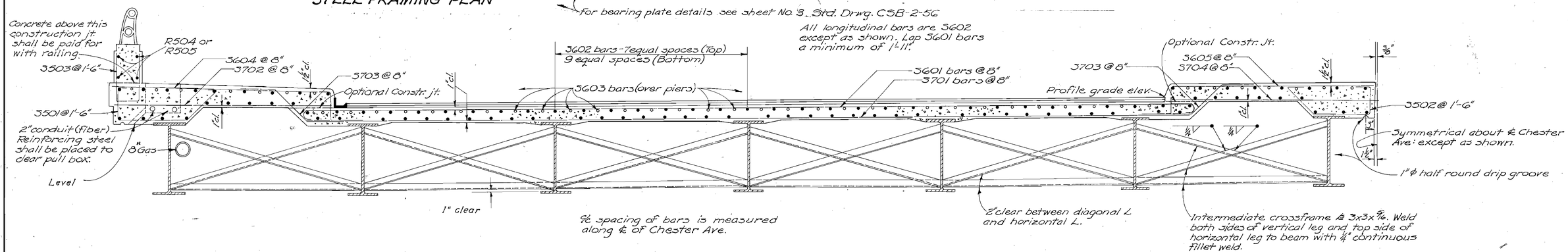
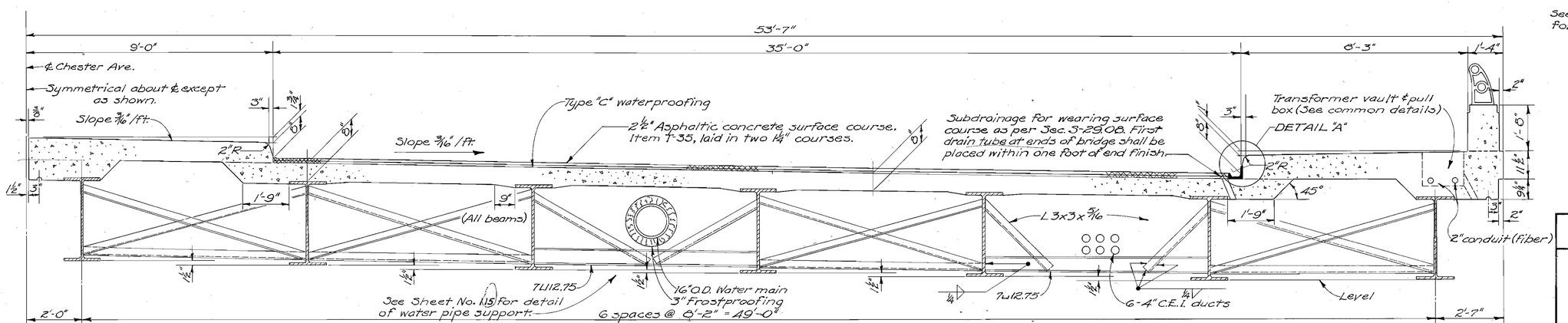


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS

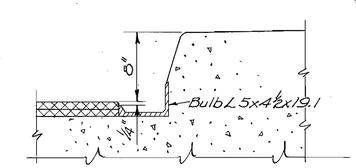


Dead load deflection is 5/8" for the interior beams and 3/4" for the exterior beams.

See COMMON DETAILS Sheet No. 99-A for parapet details.



TYPICAL CROSS SECTION (Looking Forward)



DETAIL "A"

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

SUPERSTRUCTURE DETAILS
BRIDGE NO. CUY-42-1932
INNERBELT FREEWAY UNDER CHESTER AVENUE

CUYAHOGA COUNTY Sta. 26+61.13

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NORRIS	NORRIS	[illegible]	Ray	BFG [illegible]	5/31/57	