

11-13

PROPOSED R/W  
 PROPOSED EASEMENT  
 CENTER LINE  
 EXISTING R/W  
 PROPERTY LINE  
 COUNTY LINE  
 CORPORATION LINE  
 EXISTING FENCE  
 PROPOSED FENCE  
 VALVES  
 EXISTING MANHOLES  
 PROPOSED MANHOLES  
 MANHOLES ADJUSTED TO GRADE  
 MANHOLES REMOVED OR ABANDONED  
 EXISTING INLETS OR CATCH BASINS  
 PROPOSED INLETS OR CATCH BASINS  
 CATCH BASINS ADJUSTED TO GRADE  
 CATCH BASINS REMOVED OR ABAND.

**CONVENTIONAL SIGNS**

LA WATER LINE  
 R/W GAS LINE  
 UNDERGROUND ELECTRICAL  
 RAILROADS  
 EXISTING RETAINING WALL  
 P/L EXISTING SEWER  
 PROPOSED SEWER  
 EXISTING GUARD RAIL  
 PROPOSED GUARD RAIL

TREES AND STUMPS  
 TREES AND STUMPS TO BE REMOVED  
 TELEPHONE OR TELEGRAPH POLE  
 LIGHT POLE  
 POWER POLE  
 WATER HYDRANT  
 EXISTING TRAFFIC SIGNAL  
 PROPOSED TRAFFIC SIGNAL

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION CUY-10-15.94 CITY OF CLEVELAND CUYAHOGA COUNTY

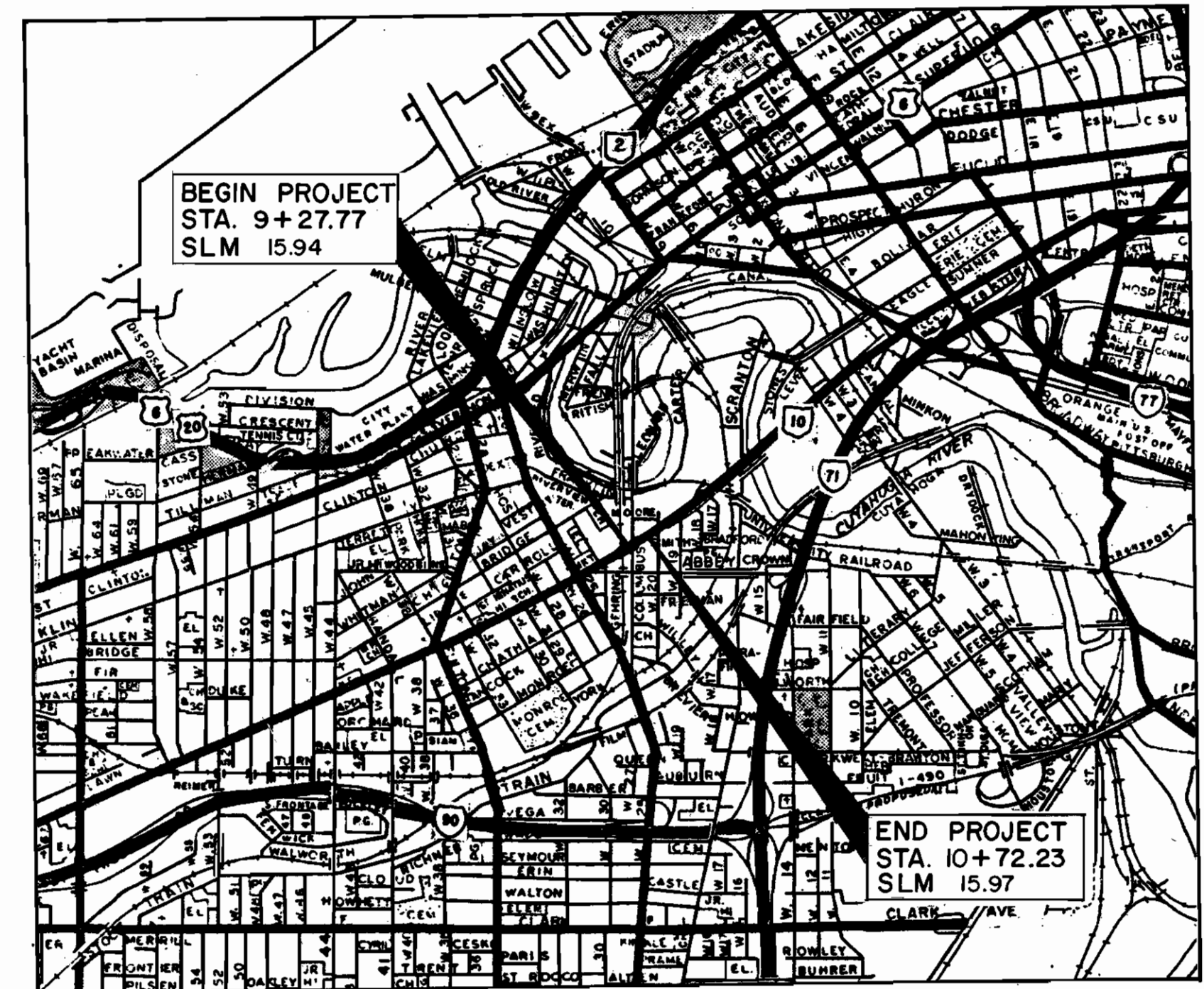
|          |                 |               |         |
|----------|-----------------|---------------|---------|
| CALC. BY | CUYAHOGA COUNTY | OHIO          | 1<br>20 |
| DATE     | CUY-10-15.94    | FHWA REGION 5 |         |
| CHKD. BY |                 |               |         |
| DATE     |                 |               |         |

BHF-69(115)

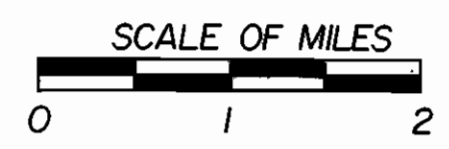
**INDEX OF SHEETS**

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| STRUCTURES OVER 20' SPAN         | 11-20 |

SHEET No. 9 HAS BEEN OMITTED.



**LOCATION PLAN**



PORTION TO BE IMPROVED  
 STATE & FEDERAL ROADS  
 OTHER ROADS

PLAN

CROSS SECTIONS — HORIZONTAL 0 10 20 40 — VERTICAL 0 5 10

**STANDARD DRAWINGS**

|           |            |          |             |         |
|-----------|------------|----------|-------------|---------|
|           | ✓ TC-35.10 | 8-29-84  | ✓ MT-105.10 | 7-1-92  |
|           | ✓ TC-71.10 | 9-10-91  | ✓ MT-105.11 | 7-1-92  |
|           | ✓ MT-99.10 | 11-14-86 | ✓ TC-41.10  | 8-29-84 |
| ✓ BP-3.1  | 2-21-92    |          | ✓ TC-41.20  | 3-26-79 |
| ✓ BP-5.1  | 2-21-92    |          | ✓ TC-52.10  | 4-3-79  |
|           |            |          | ✓ TC-52.20  | 4-3-79  |
| ✓ AS-1-81 | 11-27-81   |          |             |         |
| ✓ MC-9.2  | 5-6-91     |          |             |         |
| ✓ PCB-91  | 4-24-92    |          |             |         |

**1993 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 DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED Bryan A. Faden  
 DATE 7/9/92 DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

APPROVED B.D. Hankilammi/SH  
 DATE 5-24-93 ENGINEER, BUREAU OF BRIDGES AND STRUCTURAL DESIGN

APPROVED Christopher L. Remyan  
 DATE 8-3-93 DEPUTY DIRECTOR, DESIGN

APPROVED Jerry Wiley  
 DATE 8-3-93 DIRECTOR, DEPARTMENT OF TRANSPORTATION

| LINE DATA         |                             |
|-------------------|-----------------------------|
| BEGIN PROJECT     | STA. 9+27.77                |
| END PROJECT       | STA. 10+72.23               |
| LENGTH OF PROJECT | 144.46 L.F.<br>OR .027 MI.  |
| BEGIN WORK        | 4+97                        |
| END WORK          | 14+65                       |
| LENGTH OF WORK    | 968.00 L.F.<br>OR 0.183 MI. |

**UNDERGROUND UTILITIES**  
 2 WORKING DAYS  
**BEFORE YOU DIG**  
 CALL 800-362-2764 (TOLL FREE)  
 OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS  
 MUST BE CALLED DIRECTLY

STRUCTURE PLANS REVIEWED BY  
**Burgess & Niple, Limited**  
 Engineers and Architects

PLANS PREPARED BY  
**STILSON & ASSOCIATES INC.**  
 CONSULTING ENGINEERS  
 75 PUBLIC SQUARE  
 CLEVELAND, OHIO

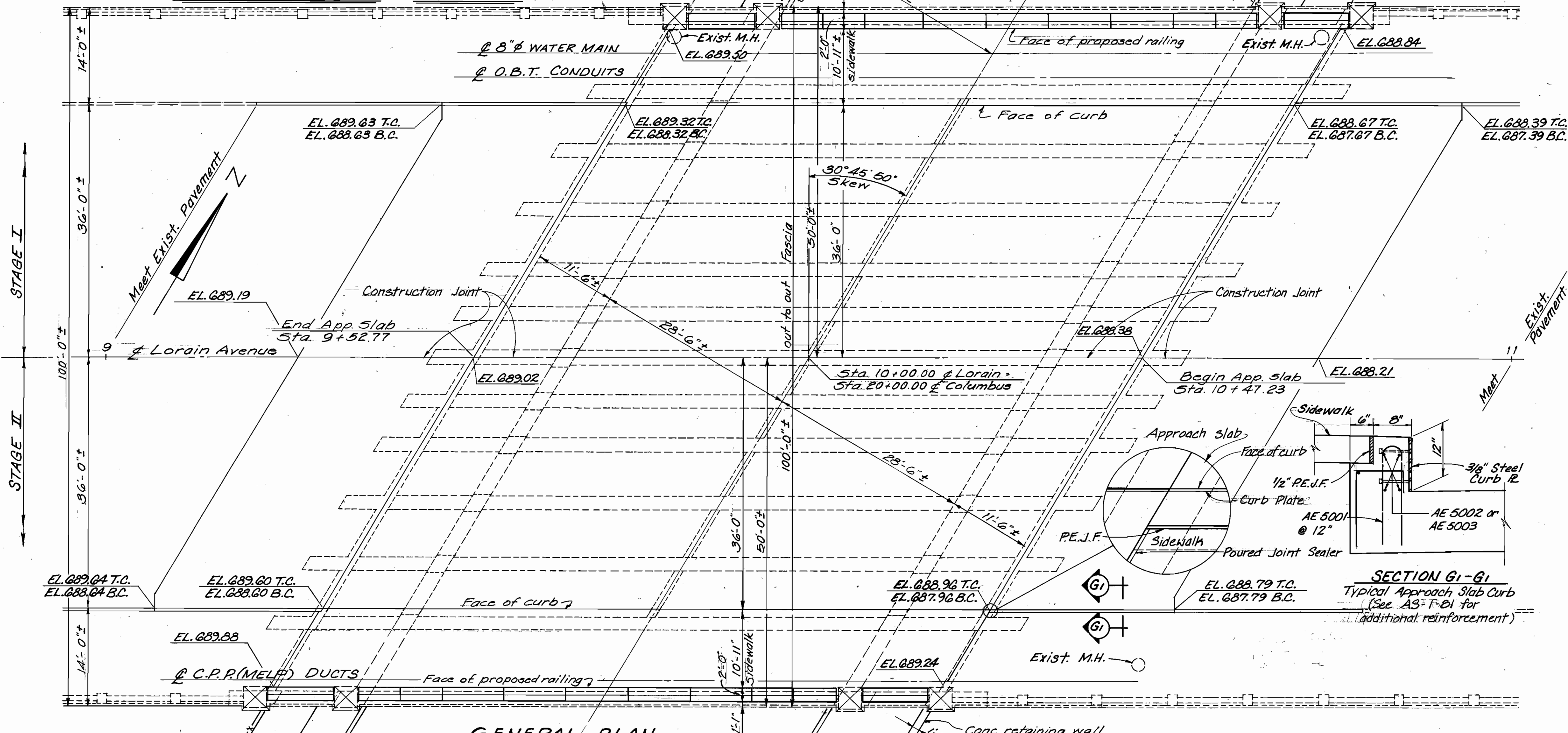
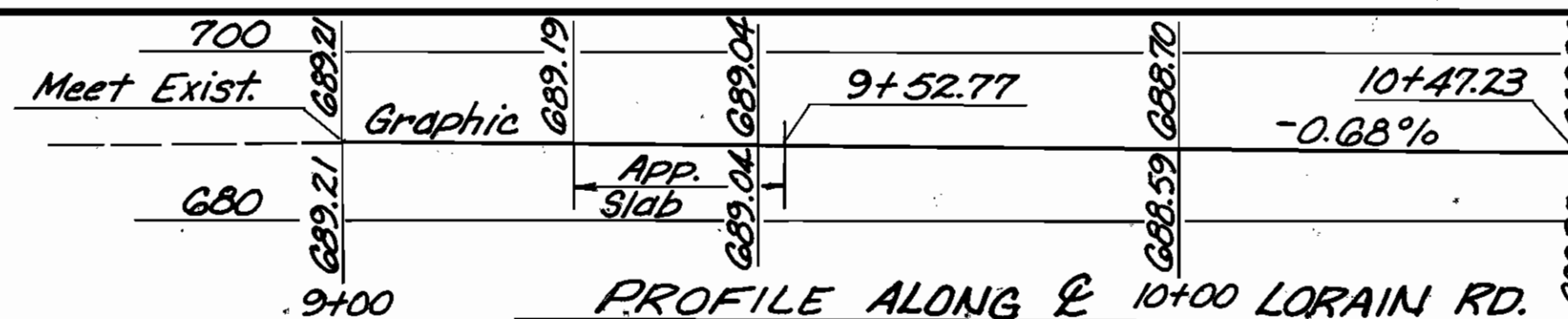
| SUPPLEMENTAL SPECIFICATIONS |         |        |      |
|-----------------------------|---------|--------|------|
| NUMBER                      | DATE    | NUMBER | DATE |
| 802                         | 4/13/90 |        |      |
| 845                         | 5/31/88 |        |      |
| 852                         | 7-30-93 |        |      |
| 910                         | 5-22-91 |        |      |
| 953                         | 8/21/80 |        |      |

| DESIGN DESIGNATION        |        |
|---------------------------|--------|
| CURRENT A.D.T. (1988)     | 11,590 |
| DESIGN YEAR A.D.T (2008)  | 15,280 |
| DHV = 1520                | D=50%  |
| T = 4%                    |        |
| DESIGN SPEED              | 40MPH  |
| POSTED SPEED              | 35 MPH |
| FUNCTIONAL CLASSIFICATION | -URBAN |
| PRINCIPAL ARTERIAL        |        |
| DESIGN EXCEPTIONS         | -NONE  |

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

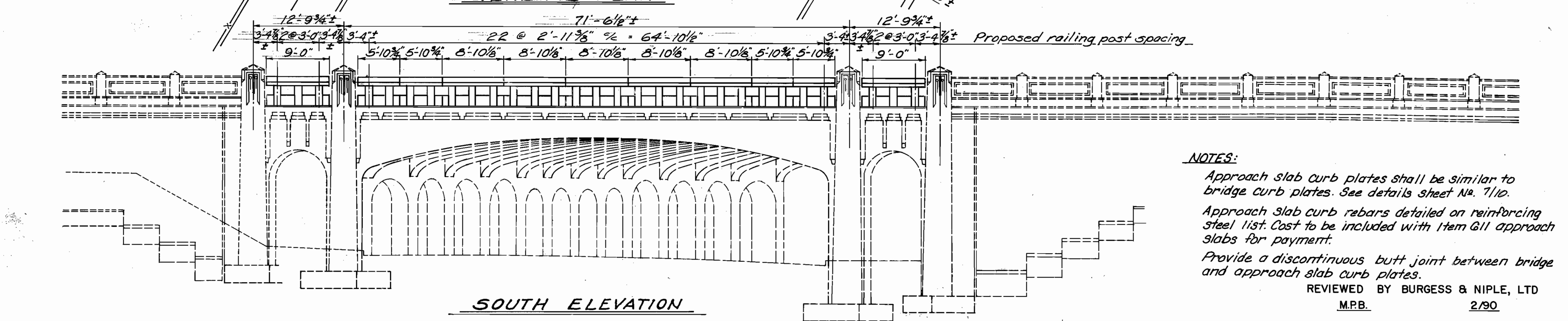
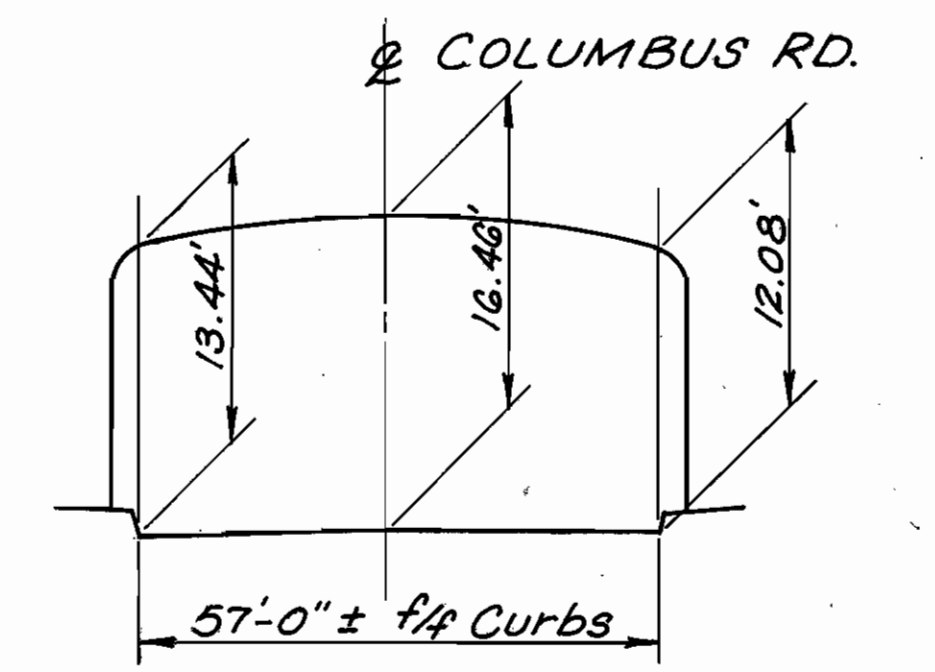
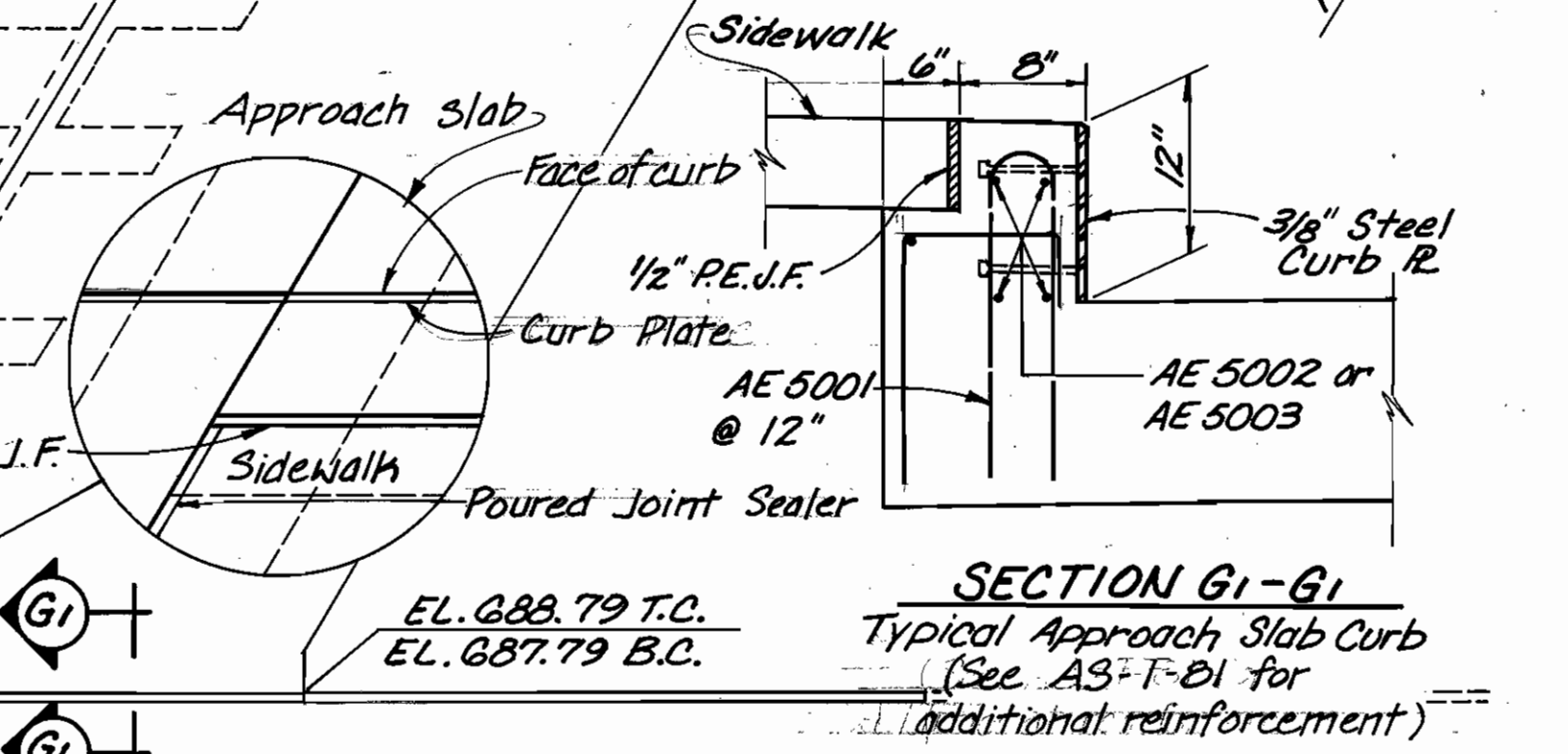
APPROVED:  
 DIVISION ADMINISTRATOR \_\_\_\_\_ DATE \_\_\_\_\_

Project: \_\_\_\_\_  
 Date of Letting: \_\_\_\_\_ 19\_\_ Contract No. \_\_\_\_\_



**EXISTING STRUCTURE**  
 TYPE: Multiple reinforced concrete rigid frames with reinforced concrete deck and substructure.  
 SPANS: 15'-7 1/2" 68'-10 3/4" 15'-7 1/2" 1/2 legs of interior frames, fascia frames similar.  
 ROADWAY: 72'-0" 1/4 curbs, 12'-0" sidewalks, stone and cast aluminum railings  
 LOADING: Unknown (provision for street cars in central 20'-0" of roadway)  
 WEARING SURFACE: Asphalt concrete  
 SKEW: 30°45' Lt. fwd. (plan dimension)  
 ALIGNMENT: Tangent  
 DATE BUILT: C 1931  
 CONDITION: Fair

**PROPOSED STRUCTURE**  
 TYPE: Same as existing  
 SPANS: Same as existing  
 ROADWAY: 72'-0" 1/4 curbs with steel curb faces 10'-11" sidewalks, new reinforced concrete deck, reinforced concrete railing to match same on Lorain-Carnegie bridge  
 LOADING: HS 20-44  
 WEARING SURFACE: 1 1/4" latex modified concrete  
 SKEW: 30°45'50" Lt. fwd. (field measurement)  
 ALIGNMENT: Tangent  
 SUPERELEVATION: None  
 APPROACH SLABS: A5-1-81 25'-0" long

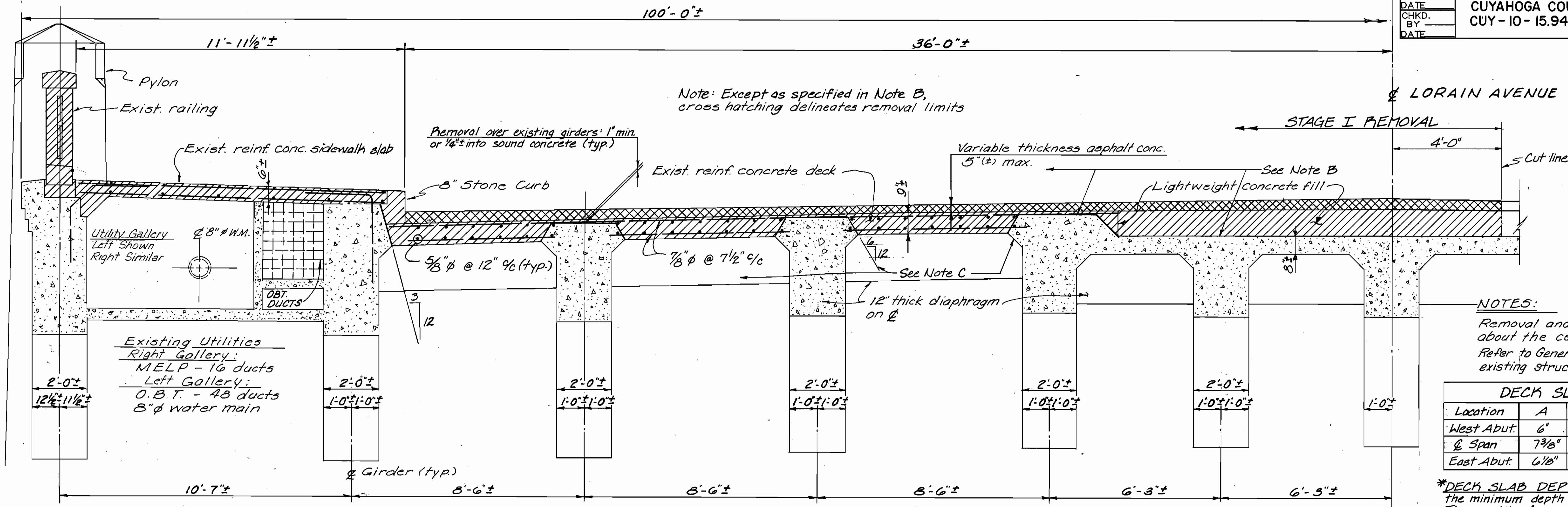


**NOTES:**  
 Approach slab curb plates shall be similar to bridge curb plates. See details sheet No. 7/10.  
 Approach slab curb rebars detailed on reinforcing steel list. Cost to be included with item G11 approach slabs for payment.  
 Provide a discontinuous butt joint between bridge and approach slab curb plates.  
 REVIEWED BY BURGESS & NIPLE, LTD  
 M.P.B. 2/90

STILSON & ASSOCIATES, INC.  
 CONSULTING ENGINEERING AND ARCHITECTURE  
 COLUMBUS AND CLEVELAND

**GENERAL PLAN & ELEVATION**  
 BRIDGE No. CUY-10-15.94  
 LORAIN AVENUE OVER COLUMBUS ROAD  
 CUYAHOGA COUNTY STA. 9+52.77 STA. 10+47.23

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE      | REVIEWED |
|----------|-------|--------|---------|----------|-----------|----------|
| GWM      | KRH   |        | TRB     | GWM      | 12/109/88 |          |



Note: Except as specified in Note B, cross hatching delineates removal limits

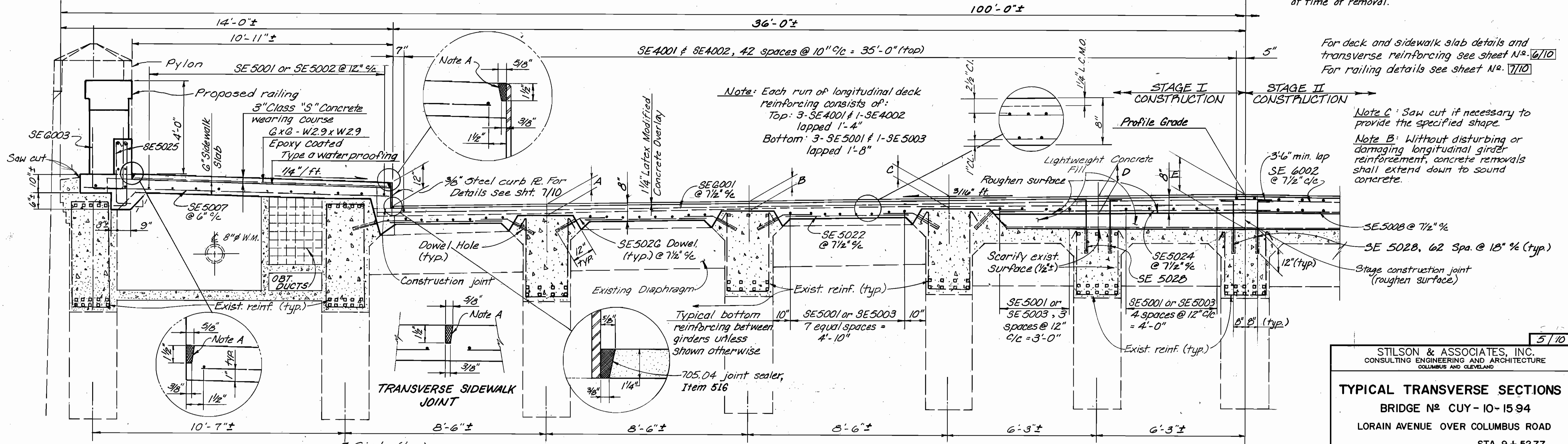
**NOTES:**  
 Removal and replacement are symmetrical about the centerline of Lorain Ave.  
 Refer to General Notes for additional existing structure removal requirements.

**DECK SLAB DEPTHS\***

| Location   | A      | B      | C      | D         | E         |
|------------|--------|--------|--------|-----------|-----------|
| West Abut. | 6'     | 5 3/8" | 5 1/2" | 1'-6 3/8" | 1'-6 1/2" |
| Span       | 7 3/8" | 6 3/4" | 6 3/8" | 1'-7 3/4" | 1'-7 7/8" |
| East Abut. | 6 1/8" | 5 1/2" | 5 5/8" | 1'-6 1/2" | 1'-6 5/8" |

\***DECK SLAB DEPTH** - The distance shown is the minimum depth required by design. The quantity of concrete to be paid for shall be based on this dimension even though deviation may be necessary due to field conditions encountered at time of removal.

**HALF TRANSVERSE SECTION**  
 Showing existing conditions and proposed removals



Note: Each run of longitudinal deck reinforcing consists of:  
 Top: 3-SE4001 & 1-SE4002 lapped 1'-4"  
 Bottom: 3-SE5001 & 1-SE5003 lapped 1'-8"

Note C: Saw cut if necessary to provide the specified shape.  
 Note B: Without disturbing or damaging longitudinal girder reinforcement, concrete removals shall extend down to sound concrete.

Note A: Poured Joint sealer 705.04. Include with Item 511 class 'S' concrete sidewalk wearing course for payment.

**HALF TRANSVERSE SECTION**  
 Showing existing conditions and proposed replacements

STILSON & ASSOCIATES, INC.  
 CONSULTING ENGINEERING AND ARCHITECTURE  
 COLUMBUS AND CLEVELAND

**TYPICAL TRANSVERSE SECTIONS**  
 BRIDGE No CUY-10-15.94  
 LORAIN AVENUE OVER COLUMBUS ROAD  
 CUYAHOGA COUNTY

STA. 9+52.77  
 STA. 10+47.23

| DESIGNED | DRAWN | TRACED | CHECKED | REVISED | DATE     | REVIEWED |
|----------|-------|--------|---------|---------|----------|----------|
| GWM      | KRH   |        | TEB     | GWM     | 12/10/88 |          |