

May 22, 2019

RE: Notice to Consultants  
Request for Qualifications  
Consulting Engineering Services  
Wyncrest Drive Bridge No. 266  
0.07 miles east of Weidman Road  
Federal Project No. BRO-B096(007)  
TIP #5204G-19  
St. Louis County Project No. CR-1292

The St. Louis County Department of Transportation is requesting the services of a well-qualified consulting engineering firm to perform the described professional services for the subject project. Qualifications-Based Selection (QBS), in accordance with RSMo. 8.285 through 8.291, will be used to determine the successful respondent. Note, St. Louis County Revised Ordinance SLCRO 107.071 is not applicable to the selection process for this contract.

General Description of Services Required:

The project involves the replacement of the Wyncrest Drive Bridge No. 266 over a branch of Grand Glaize Creek, located 0.07 miles east of Weidman Road. Anticipated required elements include, but are not limited to:

- Hydraulics & FEMA No-Rise Certification
- Geotechnical Analysis & Design (as necessary)
- Structural Analysis & Design
- Roadway Design
- Drainage and Water Quality Design and MSD Permitting (as necessary)
- Miscellaneous Pick-Up Survey Work (as necessary)
- Utility Coordination (as necessary)
- Right-of-Way Plans
- Preliminary Plans
- Final Plans
- Job Special Provisions
- Construction Estimates
- Coordination with the Missouri Department of Transportation (MoDOT)

Services to Be Provided by St. Louis County Staff:

- Topographic Surveying
- Property Surveying

- Compilation of Bid Documents
- Compile and Submit Plans, Specifications, and Estimates (P,S, & E)
- Management of the Bidding Process
- Compile and Submit Concurrence in Award Request
- Contract Processing and Execution
- Compile and Submit Construction Notice to Proceed Request
- Construction Engineering
- Materials Testing

The anticipated project schedule is tied to East-West Gateway reasonable progress deadlines and is outlined below. Firms unable to meet these deadlines should not submit a Qualifications Statement.

Qualifications Statements Due:	June 11, 2019
Selection Announced:	June, 2019
Scoping Meeting:	June, 2019
Negotiation:	June, 2019 – July, 2019
Council Authorization/Contract Execution:	August, 2019 - October, 2019
Estimated Notice to Proceed Date:	October 28, 2019
Preliminary Plans Complete:	March, 2020
Right-of-Way Plans Complete:	June, 2020
Final Plans Complete:	March, 2021

Please limit your Qualifications Statement to no more than seven (7) pages. The submittal should include the following:

- A statement describing expressing your firm's interest in the project.
- Key project staff and their qualifications.
- Current workload and availability of key staff throughout the project.
- Project approach
- Details of other similar projects your firm has taken through final design in the recent past. Contact information should be provided for similar projects completed for other agencies.
- DBE Utilization Plan

Firms may submit a copy of their company's general qualifications separately as a single additional document. There is no length limit to this document. This supplemental information is not required and is not guaranteed to be considered in the scoring process. All project specific information should be included in the seven-page Qualifications Statement.

All prime consultants shall be prequalified with MoDOT. It is further required that your firm submit an Affidavit of Compliance with the federal work authorization program along with a copy of your firm's E-Verify Memorandum of Understanding (15CSR 60-15.020) be submitted with your firm's Statement of Qualifications. These items do not count towards the seven-page limit.

Qualifications Statements will be scored based on the following criteria:

- Overall Experience and Technical Competence – **30 points**
  - Project Manager has appropriate qualifications and has successfully managed similar projects (**10 points**)
  - Technical Leads have appropriate qualifications and have successfully performed on similar projects (**10 points**)
  - Project Team, including subconsultants, has experience working together on similar projects (**10 points**)
- Past Record of Performance – **20 points**
  - Prior projects presented are representative of the technical challenges of the project being solicited (**10 points**)
  - Prior projects include federal-aid projects for Missouri Local Public Agencies (**5 points**)
  - Performance on prior projects (**5 points**)
    - Provide project contact information for non-County projects.
    - LPA Federal-Aid Projects Preferred
- Capacity and Capability – **20 points**
  - Statements concerning Project Team availability appear realistic (**5 points**)
  - Record of meeting project schedules (**15 points**)
    - Provide complete project timelines for three recent projects:
      - Projects should be among those discussed in the “Past Record of Performance.” Projects must have been completed (through construction) in the past five (5) years
      - Timelines should include entire project life, from consultant selection through completion of construction. Milestones listed, when applicable, should include:
        - Consultant Selection
        - Consultant Contract was Fully Executed
        - Consultant Notice-to-Proceed
        - Preliminary Plan Approval
        - Right-of-Way Plan Approval
        - A-Date
        - P,S&E Approval
        - Right-of-Way Clearance
        - Bid Opening
        - Award
        - Construction NTP
        - Construction Time Allowed
        - Construction Completed.
      - Explanations should be provided for any milestones that appear to have significant delays.
      - Tabular format is preferred.
- Project Approach – **30 points**
  - Discuss items including, but not limited to:

- Potential technical challenges and proposed solutions
- Opportunities for innovation
- Project-specific utility coordination approach
- Measures to be taken by project team to keep project on schedule

This project is classified as non-complex per the Department's revised QBS policy. Selection will be made based solely on the scoring of Statements of Qualification received and no interviews will be conducted.

A Disadvantaged Business Enterprise (DBE) goal of **18%** has been established for this project. DBE firms must be listed in the MRCC DBE Directory located on MoDOT's website at [www.modot.gov](http://www.modot.gov), in order to be counted toward participation in any established DBE Goal. St. Louis County encourages DBE firms to submit as prime on any project for which they are qualified. Any sub-consultants needed to complete the professional services requested by St. Louis County must be listed.

If your firm would like to be considered for the consulting services, please e-mail your Qualifications Statement to Pam Thebeau, P.E., Supervisor, Project Managers at [PThebeau@stlouisco.com](mailto:PThebeau@stlouisco.com) as a PDF file. General qualifications shall also be submitted in PDF format. Any mailed or hand-delivered hard copy submittals will be discarded. All Qualifications Statements must be received by 2:00 p.m., local time, on June 11, 2019 to be considered for this project. Questions regarding this solicitation shall be submitted in writing via e-mail to the project contact above. Phone inquiries will not be accepted. Failure to comply with the requirements of the RFQ may negatively impact the evaluation of the consultant's Statement of Qualifications.

Pertinent project programming files, inspection reports, and existing plans are attached following this Notice.



<b><i>St. Louis County, Wyncrest Drive Bridge No. 266 Replacement</i></b>	
Federal Aid No.:	BRO-B096(007); TIP #5204G-19
Location:	Wyncrest Drive over Branch of Grand Glaize Creek
Proposed Improvement:	Bridge Replacement
Length:	0.10 miles
Approximate Construction Cost:	\$1,637,000
DBE Goal Determination	18%
Consultant Services Required:	<p>The project involves the replacement of the Wyncrest Drive Bridge No. 266 over a branch of Grand Glaize Creek, located 0.07 miles east of Weidman Road.</p> <ul style="list-style-type: none"> <li>• Hydraulics &amp; FEMA No-Rise Certification</li> <li>• Geotechnical Analysis &amp; Design (as necessary)</li> <li>• Structural Analysis &amp; Design</li> <li>• Roadway Design</li> <li>• Drainage Design and Water Quality Design and MSD Permitting (as necessary)</li> <li>• Miscellaneous Pick-Up Survey Work (as necessary)</li> <li>• Utility Coordination (as necessary)</li> <li>• Right-of-Way Plans</li> <li>• Preliminary Plans</li> <li>• Final Plans</li> <li>• Job Special Provisions</li> <li>• Construction Estimates</li> <li>• Coordination with the Missouri Department of Transportation (MoDOT)</li> </ul>
Other Comments:	<p><u>Services to Be Provided by St. Louis County Staff:</u></p> <ul style="list-style-type: none"> <li>• Topographic surveying</li> <li>• Property surveying</li> <li>• Compilation of Bid Documents</li> <li>• Compile and Submit Plans, Specifications, and Estimates (P,S, &amp; E)</li> <li>• Management of the Bidding Process</li> <li>• Compile and Submit Concurrence in Award Request</li> <li>• Contract Processing and Execution</li> <li>• Compile and Submit Construction Notice to Proceed Request</li> <li>• Construction Engineering</li> <li>• Materials Testing</li> </ul>
Contact:	<p>Pamela R. Thebeau, P.E.  Supervisor, Project Managers  St. Louis County Department of Transportation  <a href="mailto:PThebeau@stlouisco.com">PThebeau@stlouisco.com</a>  All questions and submittals via e-mail. Phone inquiries not accepted.</p>
Deadline:	June 11, 2019 at 2:00 p.m.



## Off-System Bridge Funding (BRO)

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Sponsoring Agency:

Project Title:

Federal Amount Requested:

### PROJECT CHECKLIST AND SUBMITTAL REQUIREMENTS

The evaluation and scoring of all projects will be based on the answers provided in the application and the attachments submitted. Submit one electronic copy. Save the electronic copy as a PDF file using the following format:

BRO\_[Sponsor]\_[Project Name].pdf.

The materials should be submitted in the following order.

#### Project Application:

☐ **Completed BRO information form**

#### Attachment A:

☐ **Project location map** – depict the location of the project on a base map such as a town road map, GIS map, aerial photo, or another base map suitable to clearly show the project’s overall location. Provide on an 8 ½ x 11 page.

☐ **Detailed cost estimate** – use Estimate of Project Costs excel file provided.

☐ **Letter of permission from facility owner** – provide if sponsor does not own roadway.

☐ **Letter of support from match source** – provide if individual, business, other local public agency, or other third-party is providing matching funds.

#### Attachment B:

☐ **Photographs** – attach photo(s) of the current bridge.

☐ **Detailed map** – if applicable, provide a map showing:

☐ **Roadway realignment diagram** – if applicable, provide a diagram showing existing and proposed vertical or horizontal realignment of the connecting roadway.

☐ **Typical bridge section** – show details of before and after bridge improvements.

☐ **Bridge condition** – attach State-issued inspection report or other documentation from State DOT showing bridge condition.

☐ **Preventive maintenance activities** – provide documentation from FHWA showing its approval of proposed preventive maintenance plan. Include list showing at least the bridges that are part of the program, ADT, sufficiency rating, maintenance activity, maintenance cost, when the structure is due for replacement, and the cost to replace the structure (in present dollars). Documentation must show that project will extend life of bridges. Required only for preventive maintenance projects.

SPONSOR INFORMATION								
Sponsoring agency:								
Secondary sponsor agency (if applicable):								
<b>Chief Elected Official/Chief Executive Director:</b>								
Name:					Title:			
Street address:								
City:		State:		County:		ZIP code:		
<b>Project contact:</b>								
Name:					Title:			
Agency:								
Street address:								
City:		State:		County:		ZIP code:		
Phone Number:				E-mail address:				
<b>Application contact:</b>								
Name:					Phone Number:			
E-mail address:								
PROJECT INFORMATION								
Project title:								
Project status: <input type="checkbox"/> New project <input type="checkbox"/> Continuation of STP-S/CMAQ/TAP project <input type="checkbox"/> Add to existing non-federally funded project				Is this application request for a piece of a larger project (phase) or the entire length of project? <input type="checkbox"/> Phase <input type="checkbox"/> Full project				
If project is a continuation of another project that was previously programmed in the TIP, provide TIP ID # of existing project and also explain this relationship:          								
If this project is a phase of a full project, how many phases are left to complete the project? Briefly explain each phase (i.e., project limits and general improvements):          								
Has your agency previously competed for funds for this specific project? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown								
If yes, when?								
Estimated completion (construction) month/year:								

## ROADWAY INFORMATION

Name of street or facility to be improved:

Does the sponsoring agency own and maintain this facility?

☐ Yes ☐ No ☐ Unknown

*If no, a letter of support for this project is required from the facility owner.*

Project length (miles):

Feature crossed (i.e., Fee Fee Creek):

Federal functional classification of road (per EWG)<sup>1</sup>:

Bridge sufficiency rating:

Bridge identification number (federal ID):

	CURRENT:	PROPOSED:
Traffic volumes (AADT):	Year:	Year:
Speed limit of street:		
Bridge width:		
Deck width:		
Number of through lanes:		
Number of turn lanes:		
Two-way left turn lanes?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Typical lane width:		
Outside lane width:		
Shoulder width:		
On-street parking allowed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Curb and gutter?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Sidewalks?	<input type="checkbox"/> One-side <input type="checkbox"/> Both sides <input type="checkbox"/> None	<input type="checkbox"/> One-side <input type="checkbox"/> Both sides <input type="checkbox"/> None
Sidewalk width:		
Sidewalk condition:	<input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> None	n/a
On-road bicycle facility <sup>2</sup> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Shared-use path or sidepath?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Shared-use path or sidepath width:		
Located on transit route?	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a

## PREVENTIVE MAINTENANCE

*Note: Complete only if preventive maintenance activity is proposed.*

How many bridges are proposed?

How will the maintenance activities extend the life of the bridge structures?

Have the preventive maintenance activities been approved by FHWA?

☐ Yes ☐ No ☐ Unknown

<sup>1</sup> East-West Gateway Functional Classification maps: <http://www.ewgateway.org/transportation-planning/roadway-functional-classification/>.

<sup>2</sup> On-road bicycle facility includes: bike lanes (separated, buffered, and standard) and shared-lane markings.

## LAND ACQUISITION INFORMATION

Status of right-of-way acquisition:

- ☐ All acquired or none needed  
☐ In process  
☐ Not started

If applicable, list the number of parcels to be acquired (all properties, permanent and/or temporary easements, TSCL, and other rights-of-way):

If any residential or commercial displacements are anticipated, give details on how many and if they are residential and/or commercial:

Right-of-way acquisition by:

Right-of-way condemnation by:

Will the project traverse any public property, such as a public park that has used federal funds (i.e., Land and Water Conservation Funds) in the past?

- ☐ Yes ☐ No ☐ Unknown

## UTILITY COORDINATION

**Note:** Project sponsor must coordinate with utilities prior to construction.

Will the project require the relocation of any utilities?

- ☐ Yes ☐ No ☐ Unknown

*If yes, check the appropriate box to select the type of utility. Then give the names of the utility companies.*

☐ Electric

☐ Phone

☐ Gas

☐ Water

☐ Cable TV

☐ Storm sewer

☐ Sanitary sewer

☐

☐

Give details concerning potential utility conflicts, problems, or issues:

Utility coordination completed by:

Designed by:

Inspected by:

### RAILROAD COORDINATION

Does the project traverse any property owned by a railroad?

☐ Yes ☐ No ☐ Unknown

Is there a railroad within 500' of project limits?

☐ Yes ☐ No ☐ Unknown

Name of railroad:

Number of crossings impacted:

Are the crossings active?

☐ Yes ☐ No

Width of crossing:

What is the crossing type?

- ☐ Timber  
☐ Rubberized  
☐ Asphalt  
☐ Concrete  
☐ Other

Describe other:

### PROJECT MAINTENANCE

List any regular maintenance tasks anticipated over the next 25 years:

Estimated annual cost to maintain facility and funding source:

### AMERICANS WITH DISABILITIES ACT

Under the 1990 Americans with Disabilities Act (ADA), Title II requires public entities with more than 50 employees to complete a self-evaluation and create an effective ADA transition plan<sup>3</sup>.

Does your local public agency have more than 50 employees?

☐ Yes ☐ No ☐ Unknown

If yes, does your agency have an adopted ADA transition plan?

☐ Yes ☐ No ☐ Unknown

If your agency has an ADA transition plan, when was it adopted?

If ADA transition plan is not adopted, when is it expected to be adopted?

<sup>3</sup> FHWA Questions and Answers about ADA/Section 504: [https://www.fhwa.dot.gov/civilrights/programs/ada\\_sect504qa.cfm](https://www.fhwa.dot.gov/civilrights/programs/ada_sect504qa.cfm).

## PROJECT DESCRIPTION

Provide a brief description of the purpose of the project and the scope of work. Be as specific as possible.



## PROJECT DEVELOPMENT SCHEDULE

*Note: Many stages can occur concurrently.*

Activity Description	Start Date (MM/YYYY)	Finish Date (MM/YYYY)	Time Frame (Months)
Receive notification letter	11/2018	11/2018	1
Execute agreement (project sponsor and DOT)			
<b>Engineering services contract submitted and approved*</b>			
Obtain environmental clearances (106, CE-2, etc.)			
Public meeting/hearing			
Develop and submit preliminary plans			
Preliminary plans approved			
Develop and submit right-of-way plans			
Review and approval of right-of-way plans			
<b>Submit and receive approval for notice to proceed for right-of-way acquisition (A-Date)*</b>			
Right-of-way acquisition			
Utility coordination			
Develop and submit PS&E			
<b>District approval of PS&amp;E/advertise for bids*</b>			
Submit and receive bids for review and approval			
Project implementation/construction			

\* Finish date must match fiscal year for each milestone shown in **bold** text.

## FINANCIAL PLAN

*Note: Fiscal years are federal fiscal years (October 1 through September 30). Federal participation for a phase of work must not exceed 80%.*

Activity	Starting Federal Fiscal Year	Total Phase Cost	BRO Funds	Sponsor Share	Sponsor Share Percentage
PE / Planning / Environmental Studies	FY				
Right-of-Way	FY				
Implementation	FY				
Construction Engineering	FY				
<b>TOTAL PROJECT COST</b>					
Identify the source(s) of local matching funds, and the amount for each source:					

## SAFETY

Is the bridge structurally deficient or functionally obsolete?

- ☐ Structurally deficient  
☐ Functionally obsolete

## MULTIMODAL

Describe the existing conditions of the bicycle/pedestrian environment where the proposed facility will be constructed:

Does the proposed project incorporate any of the following bicycle-related improvements?

- ☐ Separated bike lane/cycle track/protected bike lane  
☐ Shared-use path/trail  
☐ Buffered bike lane  
☐ Standard bike lane (not buffered)  
☐ Marked shared roadway (shared-lane markings, "sharrow")  
☐ Paved shoulder  
☐ Other  
☐ None

Describe other:

Does the proposed project incorporate any of the following pedestrian-related improvements?

- ☐ New sidewalks  
☐ Sidewalk reconstruction  
☐ Construction of new curb ramps  
☐ Curb ramp reconstruction  
☐ Railing or protective screening/concrete barrier  
☐ Pedestrian-scale lighting  
☐ Other  
☐ None

Describe other:

Is the project within ½ mile of a school?

- ☐ Yes ☐ No ☐ Unknown

If yes, identify the school(s):

Is the project within ½ mile of an activity center, employment center, or community resource (i.e., a business district, retail center, medical facility, community center, park)?

☐ Yes ☐ No ☐ Unknown

If yes, identify all activity centers, employment centers, and/or community resources (planned or existing):

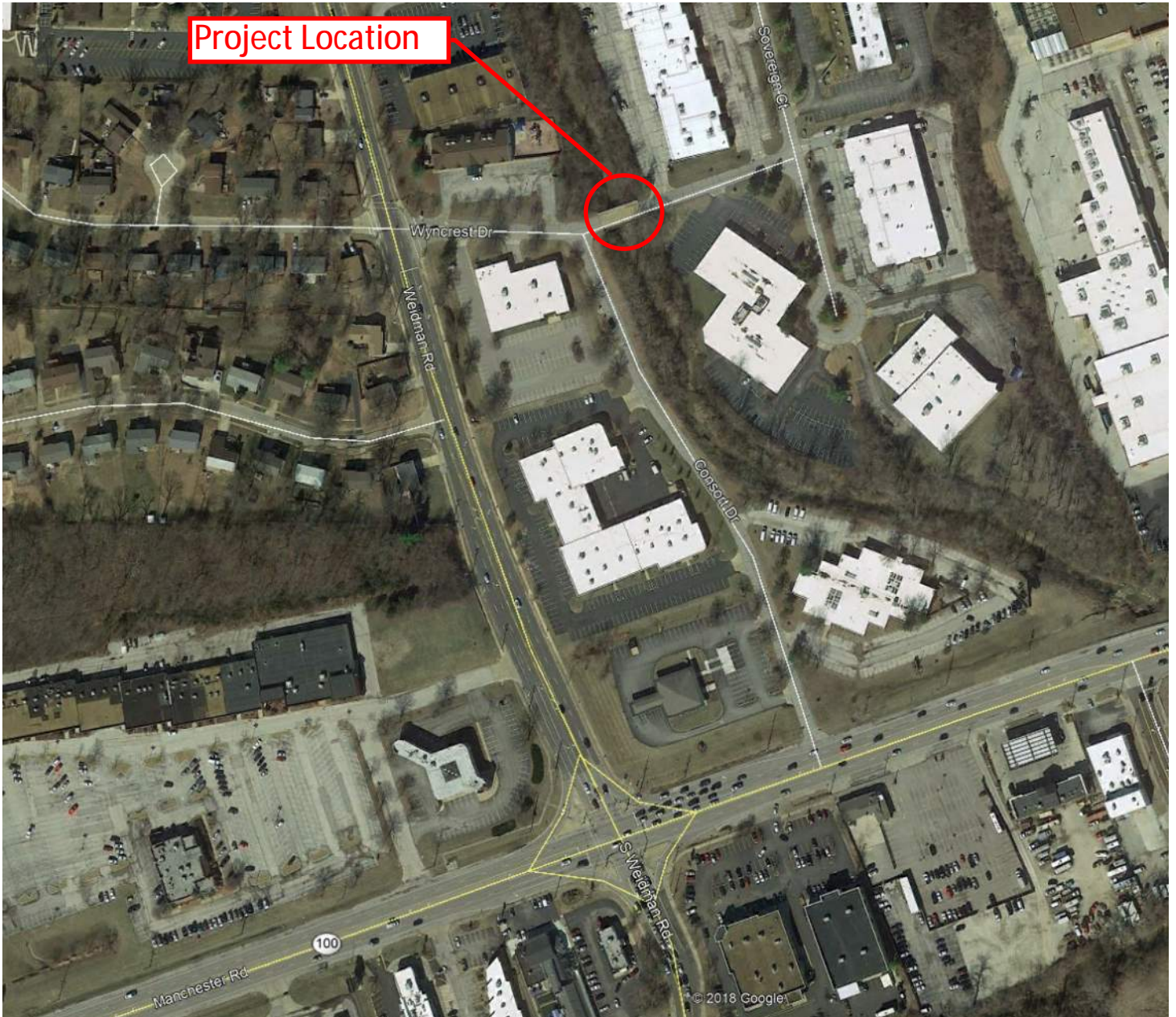
### INTERMODAL CONNECTIONS

Does the facility have a posted weight limit?

☐ Yes ☐ No ☐ Unknown

If yes, what is the posted weight limit?

# Wyncrest Drive Bridge No. 266 (096B266) St. Louis County, MO



Wyncrest Bridge No. 266  
St. Louis County Project No. CR-1292

Project Length (ft): 300  
Current Bridge Length (ft): 73  
Anticipated Bridge Length (ft): 73  
Anticipated Out-to-Out Width (ft): 34.67

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ESTIMATED COST	SUB-TOTAL
<b>Earthwork Items</b>						
201-20.10	Clearing & Grubbing	1	Lump Sum	\$5,000.00	\$5,000.00	
203-10.30	Land Disturbance Permit	1	Lump Sum	\$1,000.00	\$1,000.00	
806-00.00	Erosion Control and SWPPP (Site less than 1 acre)	1	Lump Sum	\$5,000.00	\$5,000.00	

\$11,000.00

<b>Roadway Work</b>						
202-20.10	Removal of Improvements	1	Lump Sum	\$15,000.00	\$15,000.00	
304-05.04	Type 5 Aggregate Base (4" thick)	807	S.Y.	\$8.00	\$6,456.00	
405-30.10	Type "C" Bituminous Concrete (Pavement)	88	Tons	\$140.00	\$12,320.00	
405-30.30	Type "X" Bituminous Concrete (Base)	439	Tons	\$90.00	\$39,498.00	
407-10.27	Tack Emulsified Asphalt (SS-H1)	50	Gal.	\$8.00	\$400.00	
408-10.15	Prime-Liquid Asphalt (MC30)	290	Gal.	\$7.50	\$2,175.00	
504-10.20	Concrete Approach Pavement	120	S.Y.	\$120.00	\$14,400.00	
606-22.00	Bridge Anchor Section (Safety Barrier Curb)	4	Each	\$2,000.00	\$8,000.00	
606-30.95	Crashworthy Guardrail Terminal	4	Each	\$3,000.00	\$12,000.00	
607-10.60	Pedestrian Fence on Structure	146	Lin. Ft	\$115.00	\$16,790.00	
609-10.52	Type B Curb and Gutter	94	L.F.	\$25.00	\$2,350.00	
611-50.30	Heavy Stone Revetment	500	S.Y.	\$40.00	\$20,000.00	
611-60.10	Concrete Slope Protection	200	S.Y.	\$80.00	\$16,000.00	
612-30.10	Standard Traffic Control Devices	1	Lump Sum	\$10,000.00	\$10,000.00	

\$175,389.00

<b>Structural Items</b>						
202-10.20	Removal of Bridges	1	Lump Sum	\$52,560.00	\$52,560.00	
206-10.00	Class I Excavation	312	C.Y.	\$80.00	\$24,998.52	
503-10.00	Bridge Approach Slab (Bridge)	160	S.Y.	\$250.00	\$40,000.00	
702-10.12	Structural Steel Piles (12 in.)	360	Lin. Ft	\$95.00	\$34,200.00	
702-60.10	Pre-Bore for Piling	180	L.F.	\$100.00	\$18,000.00	
703-20.03	Class B Concrete (Substructure)	132	C.Y.	\$1,000.00	\$132,000.00	
703-42.15	Safety Barrier Curb	146	Lin. Ft	\$135.00	\$19,710.00	
703-44.40	Bridge Plaque	1	Each	\$1,000.00	\$1,000.00	
703-45.01	Class "B-2" Concrete (Superstructure on Concrete "NU" Girder	260	S.Y.	\$400.00	\$104,000.00	
703-71.65	Laminated Neoprene Bearing Pad	10	Each	\$350.00	\$3,500.00	
705-60.23	Prestressed Concrete Member, NU Girder	365	L.F.	\$270.00	\$98,550.00	
706-10.60	Reinforcing Steel (Bridges)	31,200	Lbs.	\$1.10	\$34,320.00	
710-60.00	Reinforcing Steel (Epoxy Coated) (Grade 60)	7,800	Lbs.	\$3.00	\$23,400.00	
712-36.10	Slab Drains	4	Each	\$340.00	\$1,360.00	
715-10.00	Vertical Drain at End Bents	2	Each	\$2,500.00	\$5,000.00	

\$592,598.52

Total Above: \$778,987.52

<b>Miscellaneous</b>						
612-30.15	Traffic Control	1	Lump Sum	\$75,000.00	\$75,000.00	
619-00.00	Mobilization, Office, etc. (10%)				\$77,900.00	
	Staged Construction/Temporary Bypass (add 15%)				\$116,848.13	

\$269,748.13

<b>TOTAL before contingencies</b>						<b>\$1,048,735.65</b>
	Contingencies (10%)				\$104,900.00	\$104,900.00
<b>TOTAL with contingencies</b>						<b>\$1,153,635.65</b>

RIGHT-OF-WAY COSTS

ROW Estimate	\$75,000
Titles, Appraisals, Condemnation Costs @ 30%	\$22,500
Total (Includes 10% Contingency, Rounded to Nearest \$1,000)	\$107,000

Utilities (Lump Sum)	\$30,000
Construction Cost	\$1,154,000
Admin. Eng. & Const. Supv.	\$173,000
Survey & Design Engineering Cost	\$173,000
Right-of-Way Cost	\$107,000
Environmental	\$0
<b>Total Cost</b>	<b>\$1,637,000</b>





**Wyncrest Drive Bridge No. 096B266**  
**Looking East**



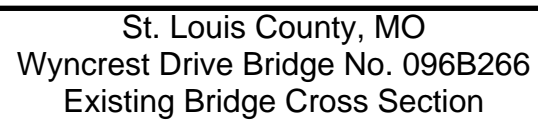
**Wyncrest Drive Bridge No. 096B266**  
**Looking West**



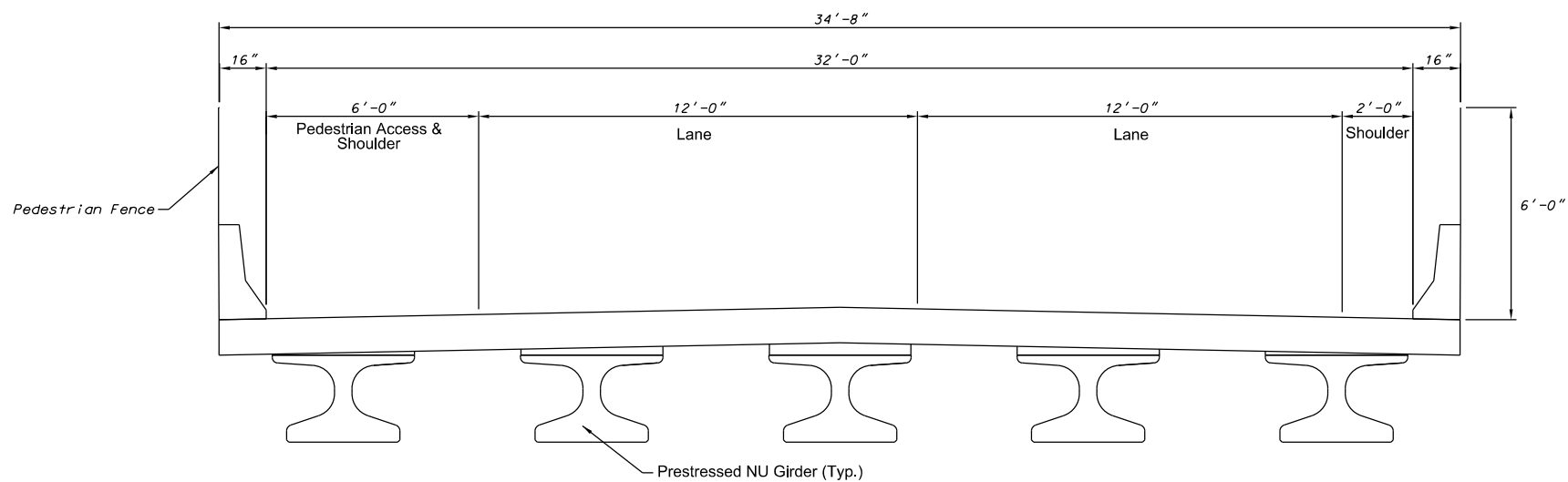
**Wyncrest Drive Bridge No. 096B266**  
**Looking South**



**Wyncrest Drive Bridge No. 096B266**  
**Looking North**



St. Louis County, MO  
Wyncrest Drive Bridge No. 096B266  
Existing Bridge Cross Section



## Wyncrest Drive Bridge #266 - Proposed Cross Section





Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Non-State Structure Inspection Report

August 20, 2018  
9:59:17am

County : ST. LOUIS

District : SL

Class : NONSTATBR

Bridge : 096B266

Federal ID : 15600

**GENERAL STRUCTURE INFORMATION**

[5D] Route :	00000	[41] Structure Status :	P-LOAD POSTED W/RESTRICT
[4] Place Code :	48989 MISSOURI RIVER	[9] Location :	S 32 T 45 R 5 E
[6] Features Intersected :	BR GRAND GLAIZE CR	[22] Owner :	COUNTY
[7] Facility Carried :	WYNCREST DR	[26] Functional Classification :	ULOCAL
[16] Latitude :	38 35 54.51 (DMS)	[21] Maintenance Responsibility :	COUNTY
[17] Longitude :	90 29 27.9 (DMS)	[11] Milepoint :	6.59 MILES

**AGE AND SERVICE - GEOMETRIC DATA - MATERIAL**

[27] Year Built :	1973	[106] Year Reconstructed :	
[49] Structure Length :	75 FT.	[51] Bridge Width :	26 FT. 0 IN.
[32] Approach Roadway Width :	25 FT. 0 IN.	[52] Deck Width :	36 FT. 0 IN.
[42B] Type of Service Under :	WATERWAY	[28A] Lanes On :	2
[19] Detour Length :	123.38 MILES	[28B] Lanes Under :	0

COMPONENTS	# SPANS	PRED	MATERIAL	CONSTRUCTION
MAIN SERIES	1	X	STEEL	WIDE FLANGE GIRDERS
[107] Deck Type :			REINCONC	CIP
[108A] Wearing Surface :			PLAINCONC	MONOLITHIC
[108B] Membrane :			EPOXYPOLYM	LAYER
[108C] Deck Protection :			NOTAPPLIC	NONE

**AADT INFORMATION**

[29] AADT on Structure :	3,173	[30] Year :	2018	[109] AADT Truck :	10 %
[114] Future AADT :	5,077	[115] Year :	2038	[102] Direction of Traffic :	2-WAY TRAFFIC

**STRUCTURE POSTING**

**FIELD POSTING** Problem Code : Problem Direction Code :  
Category : S-15 TRUCK WEIGHT LIMIT 56 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 45 TONS WEIGHT LIMIT  
Ton 1 : 56 Ton 2 : 45 Ton 3 :

**APPROVED POSTING**  
Category : S-15 TRUCK WEIGHT LIMIT 56 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 45 TONS WEIGHT LIMIT  
Ton 1 : 56 Ton 2 : 45 Ton 3 :

**COMPUTER GENERATED DEFICIENCY AND EVALUATION ITEMS**

NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.

<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	5/23/2012
[Item 68] Deck Geometry Rating:	3-BASICALLY INTOL CORRECT	6/30/2008
[Item 69] Underclearance:	N-NOT APPLICABLE	3/1/2002
<b>Sufficiency Rating:</b>	43.9 %	5/23/2012
<b>Deficiency:</b>	FUNCTIONAL	6/30/2008
<b>Funding Eligibility:</b>	FULL	1/18/2018
<b>Estimated New Structure Length:</b>	102 FT.	1/18/2018
<b>Estimated Structure Cost:</b>	\$391,618	1/18/2018
<b>Estimated Total Project Cost:</b>	\$587,428	1/18/2018
<b>Year of Cost Estimate:</b>	2018	1/18/2018

NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.



Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Non-State Structure Inspection Report

August 20, 2018  
9:59:17am

County : ST. LOUIS

District : SL

Class : NONSTATBR

Bridge : 096B266

Federal ID : 15600

\*\*\*\*STRUCTURE GENERAL INSPECTION\*\*\*\*

[90] Inspection Type: GENERAL

[91] Designated Frequency: 24

Inspection Responsibility:

Inspection Date: 2/15/2018

\*\* Calculated Frequency: 12

Element Inspection Required: NO

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

General Inspection Comments

Inspector

TOBY KEMPER  
SCOTT R. NORRIS

Team Leader

X

Organization

SAINT LOUIS COUNTY  
SAINT LOUIS COUNTY

\*\*\*\*UNDERWATER INSPECTION\*\*\*\*

Inspection Category: DRY

[92B] Designated Frequency: 60

Inspection Responsibility:

Inspection Date: 2/15/2018

\*\*Calculated Frequency: 24

NBI: NO

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

Underwater Inspection Comments

Inspector

TOBY KEMPER  
SCOTT R. NORRIS

Team Leader

X

Organization

SAINT LOUIS COUNTY  
SAINT LOUIS COUNTY

\*\*\*\*SPECIAL INSPECTION\*\*\*\*

Inspection Category: CHANNEL CROSS SECTIONS

[92C] Designated Frequency: 120

Inspection Responsibility:

Inspection Date: 7/30/2014

\*\*Calculated Frequency:

NBI: NO

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

Special Inspection Comments

Inspector

DANIEL R VALLEY  
JAMES B.W. CARR (NTLQ)

Team Leader

Organization

SAINT LOUIS COUNTY  
SAINT LOUIS COUNTY

\*\*\*\*OTHER SPECIAL INSPECTIONS\*\*\*\*

Category

Frequency

Calculated Frequency\*\*

Date

Inspection Responsibility

NBI

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.



Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Non-State Structure Inspection Report

August 20, 2018  
9:59:17am

County : ST. LOUIS

District : SL

Class : NONSTATBR

Bridge : 096B266

Federal ID : 15600

\*\*\*\*GENERAL COMMENTS AND CONDITION RATINGS\*\*\*\*

**General Comments :**

(LIVINR1, 05/07/2008)--A SINGLE SPAN WIDE FLANGE STEEL I-BEAM STRUCTURE ON FULL HEIGHT GRAVITY REINFORCED CONCRETE ABUTMENTS ON SPREAD FOOTING.

**[Item 58]--Deck Condition Rating:**

5-FAIR CONDITION

**Rating Date:** 05/10/2012

Deck Rating Comments

(MOBSLCO, 06/27/2018)--TOPSIDE: EXPOSED AGGREGATE SURFACE. TRANSVERSE CRACKS TYPICAL THROUGHOUT. MINOR SPALLS AT EDGES OF SEVERAL DRAIN HOLES. POTHOLE FORMING.

UNDERSIDE: HAIRLINE MAP CRACKING TYPICAL THROUGHOUT. CRACKS HAVE RUST AND EFFLORESCENCE AT ENDS. PATCHES THROUGHOUT EAST SIDE NEAR ABUTMENTS ARE BEGINNING TO FAIL . VARIOUS DELAMINATION AROUND PATCHES. SCALING VISIBLE NEAR ABUTMENTS IN FIRST AND SECOND BAY FORM NORTH. FAILING PATCH IN NW BAY IN FIRST DIAPHRAGM. MORE SCALING PRESENT THROUGHOUT LARGE DELAMINATION IN SECOND BAY FROM NORTH AT EAST ABUTMENT.

**[Item 59]--Superstructure Condition Rating:**

5-FAIR CONDITION

**Rating Date:** 05/10/2012

Superstructure Rating Comments

(MOBSLCO, 06/27/2018)--MODERATE RUST AT BEAM ENDS. BEARINGS RUSTED AT ALL LOCATIONS, SOME PACK RUST NOTED. END DIAPHRAGMS SHOWING DELAMINATION AT TOP AND BOTTOM FLANGES WITH HEAVY RUST. SECOND BEAM FROM NORTH HAS A NEGATIVE CAMBER NEAR THE CENTER.

**[Item 60]--Substructure Condition Rating:**

6-SATISFACTORY CONDITION

**Rating Date:** 05/07/2008

**Compass Direction:**

Substructure Rating Comments

(MOBSLCO, 06/27/2018)--HORIZONTAL CRACKING AT TOPS OF BOTH ABUTMENTS UNDER BEARINGS. HAIRLINE VERTICAL CRACKS TYPICAL THROUGHOUT BOTH ABUTMENTS. SEVERE PACK RUST AT BEARINGS. HORIZONTAL CRACKS AT UPPER PART OF ABUTMENT.

**[Item 61]--Channel Condition Rating:**

6-WIDESPREAD MINOR DAMAGE

**Rating Date:** 04/22/2010

Rating Comments

(STREIK1, 05/10/2012)--ALIGNMENT OK. SILTED IN JUST UPSTREAM OF BRIDGE WITH TREES GROWING. CONSTRICTS OPENING SOMEWHAT.

**[Item 62]--Culvert Condition Rating:**

N-NOT APPLICABLE

**Rating Date:** 03/01/2002

Rating Comments

County = ST. LOUIS



Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Non-State Structure Inspection Report

August 20, 2018  
9:59:17am

County : ST. LOUIS

District : SL

Class : NONSTATBR

Bridge : 096B266

Federal ID : 15600

\*\*\*\*APPRAISAL RATINGS\*\*\*\*

**[Item 36A]--Bridge Railing Appraisal:**

DOESNT MEET CURRNT STND-0

**Rating Date:** 03/23/2017

Rating Comments

**[Item 36B]--Transition Railing Appraisal:**

NOT REQUIRED-N

**Rating Date:** 03/01/2002

Rating Comments

**[Item 36C]--Approach Railing Appraisal:**

NOT REQUIRED-N

**Rating Date:** 03/01/2002

Rating Comments

**[Item 36D]--Rail End Treatment Appraisal:**

NOT REQUIRED-N

**Rating Date:** 03/01/2002

Rating Comments

**[Item 71]--Waterway Adequacy:**

ABOVE FLOOD ELEVATIONS

**Rating Date:** 03/01/2002

Rating Comments

**[Item 72]--Approach Roadway Alignment:**

6-SATISFACTORY

**Rating Date:** 08/08/2002

Rating Comments

(HOLZBJ, 08/08/2002)--MINOR REDUCTION IN SAFE OPERATING SPEED REQUIRED DUE TO HORIZONTAL ALIGNMENT.

**[Item 113]--Scour Assessment:**

8-STABLE FOR CALCULATED

**Rating Date:** 3/1/2002

**Type of Scour Evaluation:**

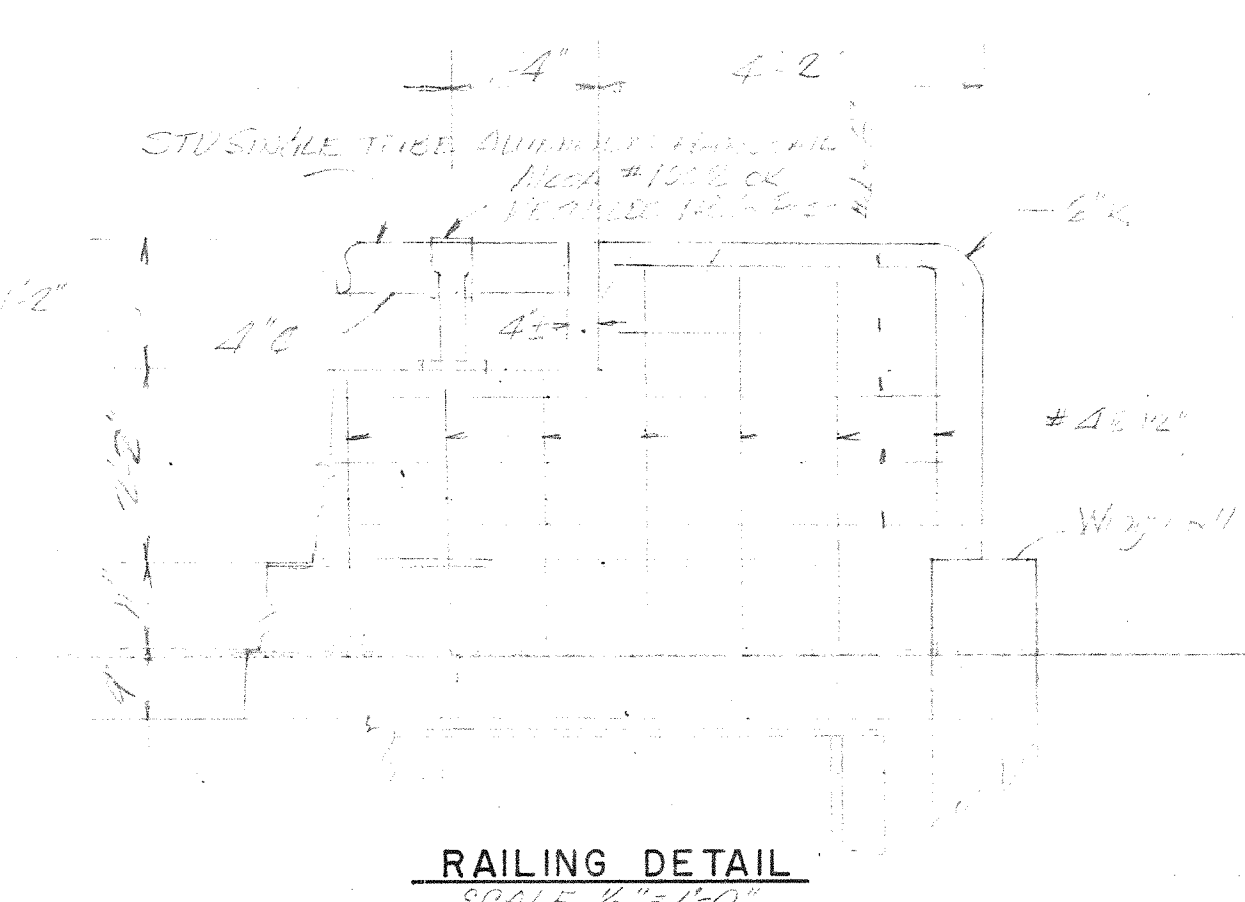
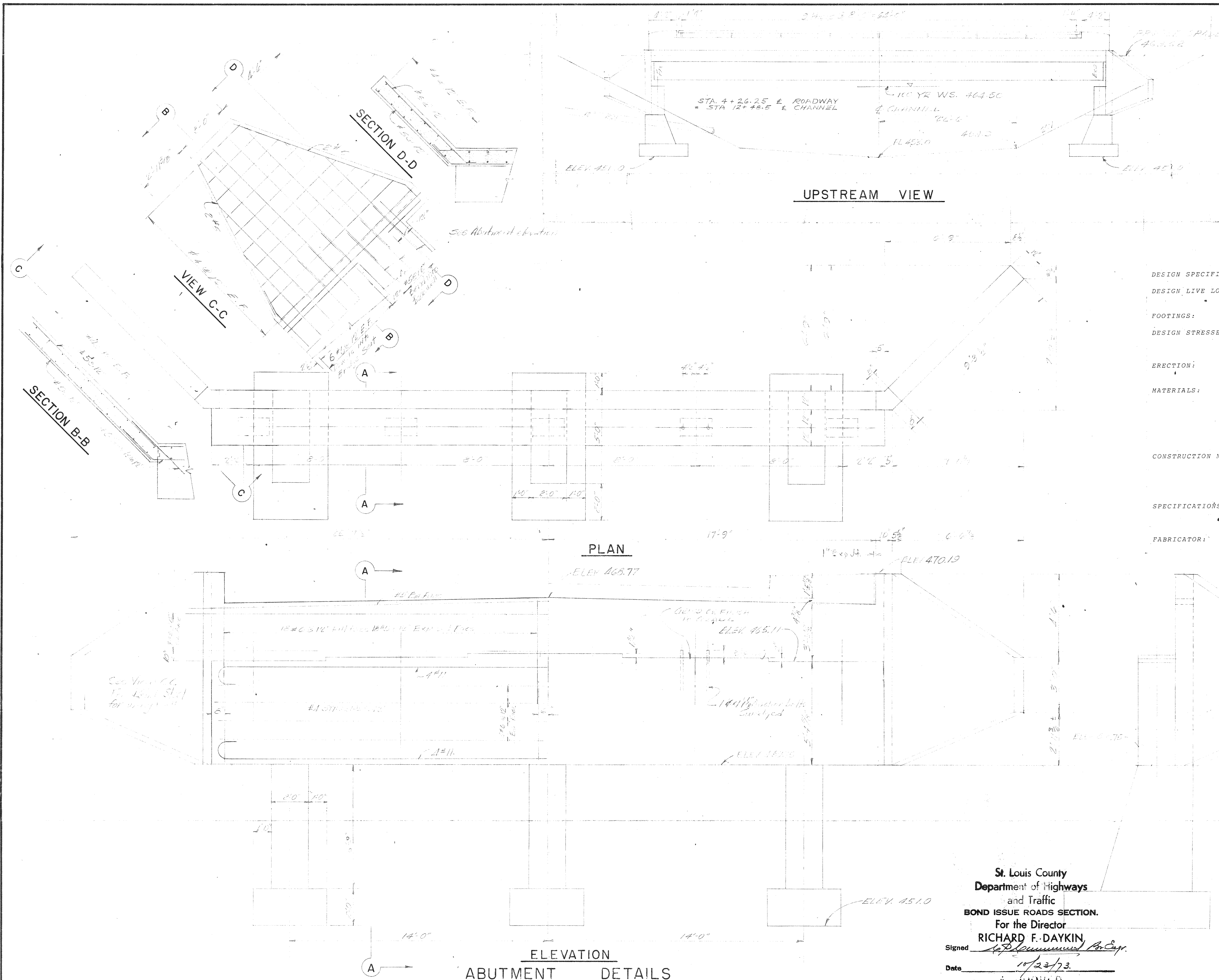
Rating Comments

(LIVINR1, 05/07/2008)--NO SCOUR.

**Work Comments :**

County = ST. LOUIS

WYNNECREST DR.  
BRG. #266



DESIGN SPECIFICATION: AASHTO Standard Specifications for Highway Bridges - 1969.

DESIGN LIVE LOAD: Traffic - HS20, Sidewalk: 60 lbs. per sq. ft., 100,000 cycles of maximum live load. Allowance for 1" future resurfacing.

FOOTINGS: To bear on moderately firm shale or weathered limestone @7500 psf.

DESIGN STRESSES: Structural steel 20,000 psi, 18,000 psi at ends of cover plates. Concrete 1350 psi compression. Reinforcing steel 20,000 psi, lap splices 24 diameters.

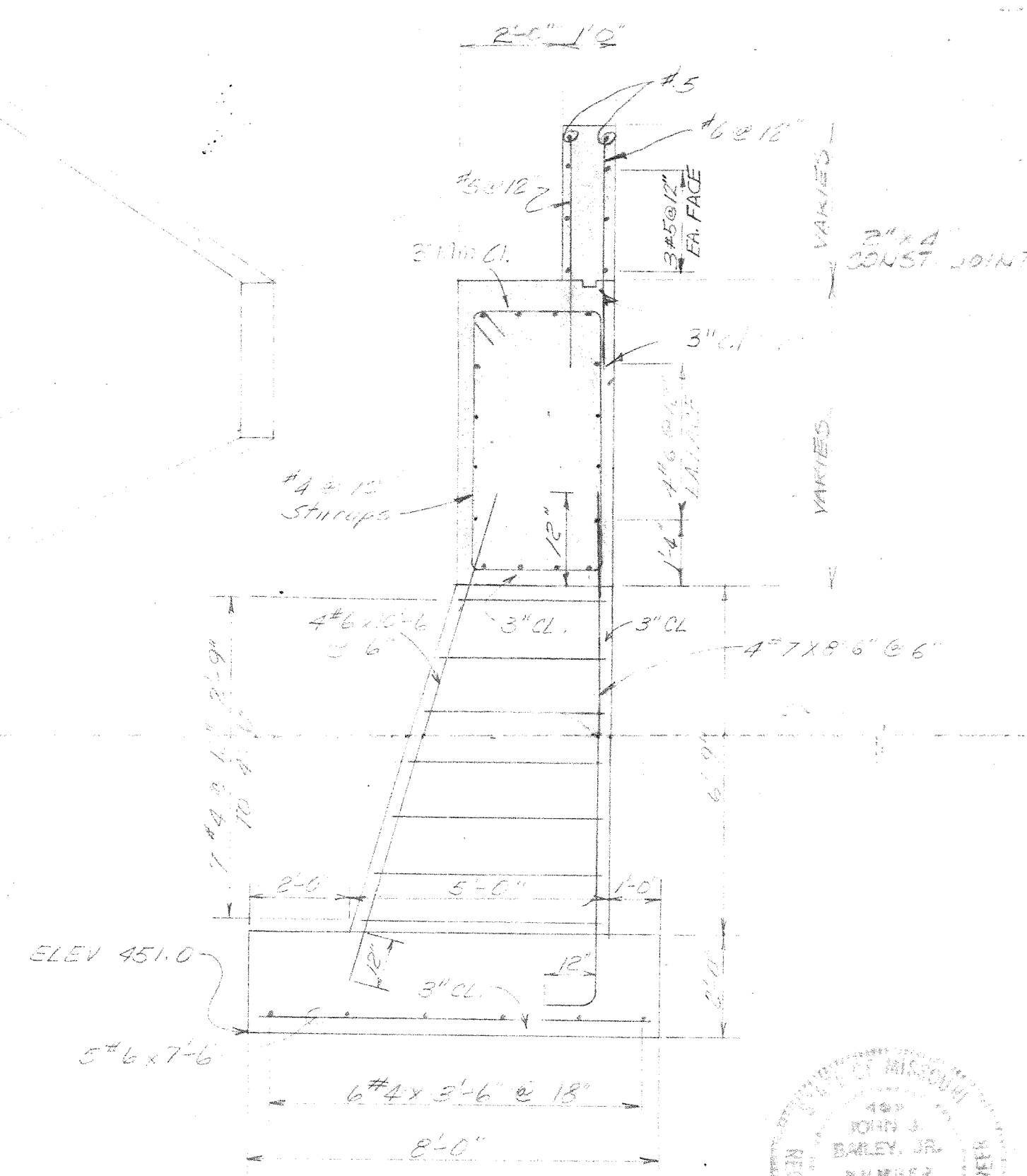
ERECTION: Design allows for placement of concrete bridge floor without intermediate support of steel beams.

MATERIALS: Structural steel: ASTM A-36. Reinforcing steel: ASTM A-615, Grade 40. Concrete: minimum 6 sack mix 4"±1" slump, 3500 psi ultimate strength. Field Bolts: 3/4", ASTM A-325. Paint: One shop coat & 2 field coats per St. Louis County Highway Department specifications.

CONSTRUCTION NOTES: Use natural camber of beams, minimum 2-3/8" for interior girders and 2-3/4" for exterior girders. If greater camber occurs, build deck accordingly. Adjust haunch to allow for variation between beams. Maximum haunch 2". For backfill behind abutments, use select material from existing creek channel compacted by tamping.

SPECIFICATIONS: St. Louis County Highway Division Standard Specifications. For items not covered, use applicable Missouri State Highway Department Standard Specifications.

FABRICATOR: Stupp Bros. Bridge & Iron Co.



St. Louis County  
Department of Highways  
and Traffic  
BOND ISSUE ROADS SECTION.  
For the Director  
RICHARD F. DAYKIN  
10/23/73  
APPROVED

END VIEW

SECTION A-A

RECEIVED  
OCT 12 1973  
DEPT. OF HIGHWAYS AND TRAFFIC  
ADM. OFFICE

REGENCY PARK		BRIDGE DETAILS	
DEVELOPER - FLEISCHER-SEEGER		B-1	
DESIGNED BY: J.L.B.	DRAWN BY: J.L.B.	CHECKED BY: J.L.B.	ISSUE DATE: 4/10/73
REITZ & JENS, INC.			
CONSULTING ENGINEERS			
ST. LOUIS, MISSOURI			
REV. NO.	DATE	DESCRIPTION	
1	10/23/73	ADDED RAIL DETAILS	
2	10/23/73	SECTION A-A	
3	10/23/73	REVISIONS	
4	10/23/73	REVISIONS	
5	10/23/73	REVISIONS	
6	10/23/73	REVISIONS	
7	10/23/73	REVISIONS	
8	10/23/73	REVISIONS	
9	10/23/73	REVISIONS	
10	10/23/73	REVISIONS	



WYNACREST DRIVE  
BRG. #266

B-2

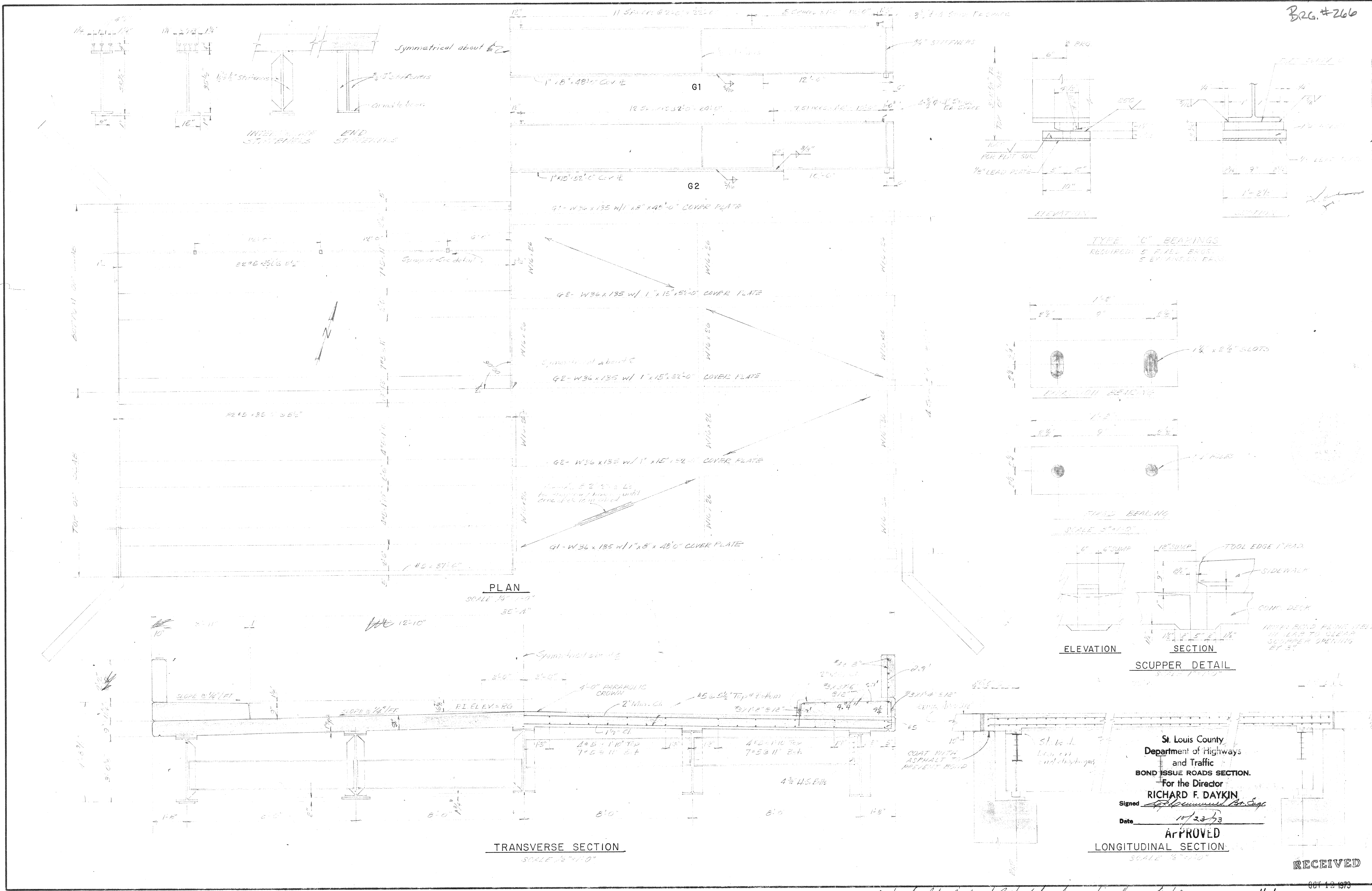
REGENCY PARK  
DEVELOPER - FLEISCHER-SEGER  
BRIDGE DETAILS

DESIGNED BY: J.L.B.  
DRAWN BY: J.L.B.  
CHECKED BY: J.L.B.  
ISSUE DATE: 4/10/73

REITZ & JENS, INC.  
CONSULTING ENGINEERS  
ST. LOUIS, MISSOURI



DESCRIPTION  
REV. NO. DATE



Bridge No. 266 - Wynacrest Drive over Branch of Grand Glaze Creek  
0.08 mile East of Weidmann Road.

Note - Mr. John Bailey of Reitz & Jens, Inc. informed me 10/23/73.  
that structural beams were set in place on 10/19/73.  
10/23/73

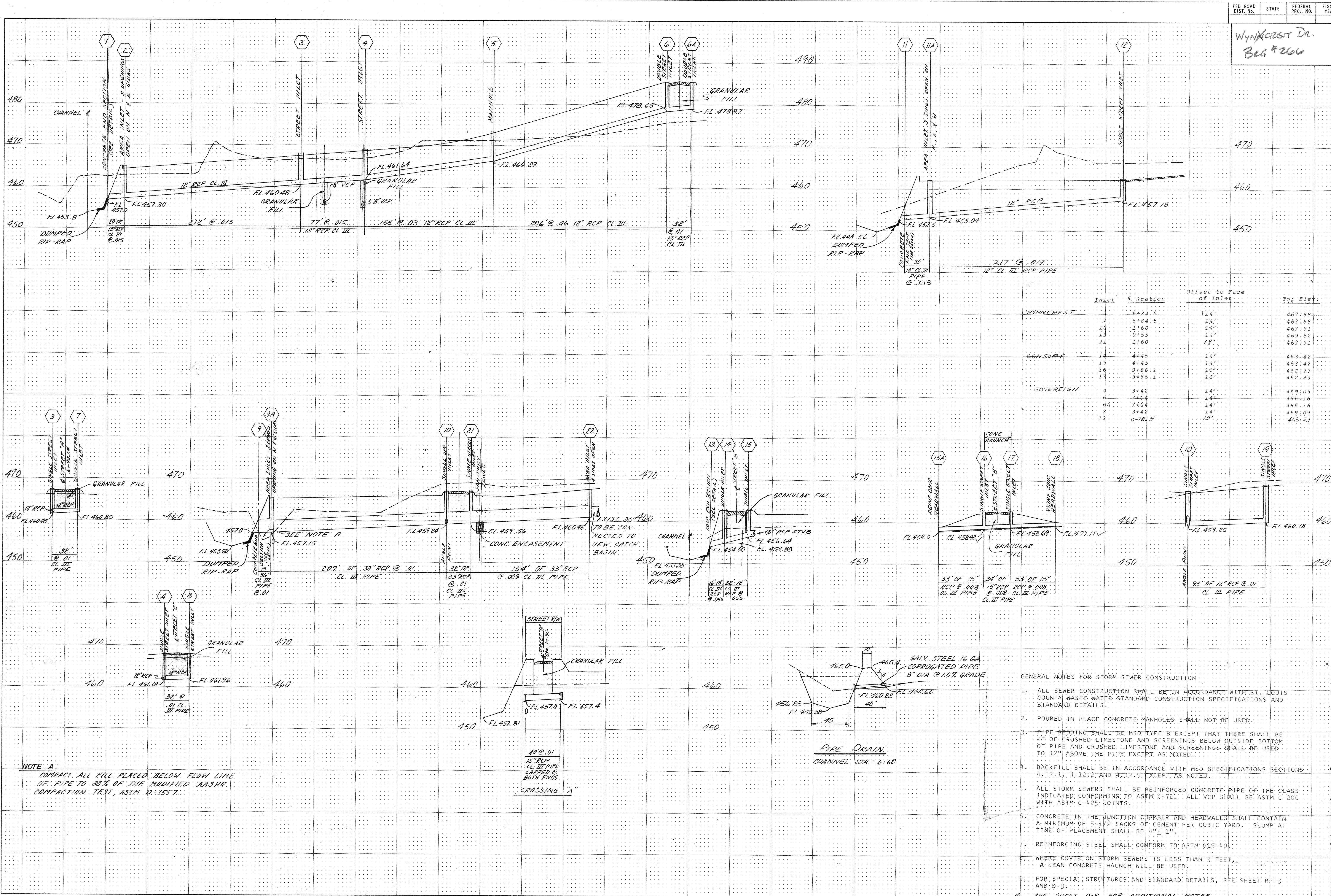
11-1  
DEPT. OF HIGHWAYS AND TRAFFIC  
ADM. OFFICE

RECEIVED



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		



FUNCTIONAL CROSS SECTION - OPEN DOTTED  
ROGERS CO. - MINNEAPOLIS - ST. PAUL

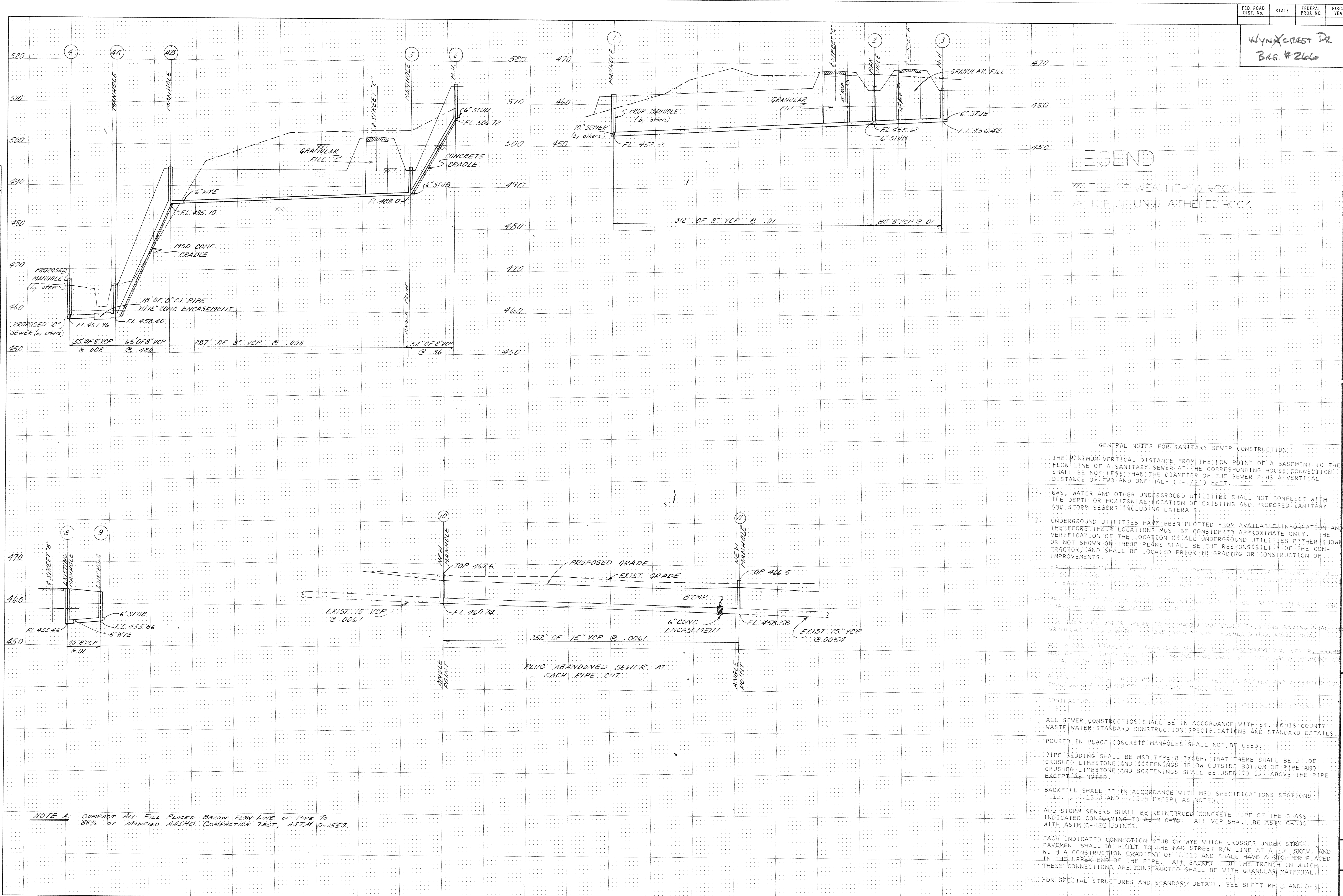
State Proj. No. .... Sheet No. .... of .... Sheets

REGENCY PARK DEVELOPER - FLEISCHER-SEEGER STORM SEWER PROFILES	
DESIGNED BY: D.S.E. DRAWN BY: E.C.H. CHECKED BY: D.S.E. ISSUE DATE: 4-30-73	REITZ & JENS, INC. CONSULTING ENGINEERS ST. LOUIS, MISSOURI
DESCRIPTION 7 8-10-73 8 6-29-73 9 6-13-73 10 5-23-73 11 8-27-73 12 8-27-73 13 8-27-73 14 8-27-73 15 8-27-73 16 8-27-73 17 8-27-73 18 8-27-73 19 8-27-73 20 8-27-73 21 8-27-73 22 8-27-73 23 8-27-73 24 8-27-73 25 8-27-73 26 8-27-73 27 8-27-73 28 8-27-73 29 8-27-73 30 8-27-73 31 8-27-73 32 8-27-73 33 8-27-73 34 8-27-73 35 8-27-73 36 8-27-73 37 8-27-73 38 8-27-73 39 8-27-73 40 8-27-73 41 8-27-73 42 8-27-73 43 8-27-73 44 8-27-73 45 8-27-73 46 8-27-73 47 8-27-73 48 8-27-73 49 8-27-73 50 8-27-73 51 8-27-73 52 8-27-73 53 8-27-73 54 8-27-73 55 8-27-73 56 8-27-73 57 8-27-73 58 8-27-73 59 8-27-73 60 8-27-73 61 8-27-73 62 8-27-73 63 8-27-73 64 8-27-73 65 8-27-73 66 8-27-73 67 8-27-73 68 8-27-73 69 8-27-73 70 8-27-73 71 8-27-73 72 8-27-73 73 8-27-73 74 8-27-73 75 8-27-73 76 8-27-73 77 8-27-73 78 8-27-73 79 8-27-73 80 8-27-73 81 8-27-73 82 8-27-73 83 8-27-73 84 8-27-73 85 8-27-73 86 8-27-73 87 8-27-73 88 8-27-73 89 8-27-73 90 8-27-73 91 8-27-73 92 8-27-73 93 8-27-73 94 8-27-73 95 8-27-73 96 8-27-73 97 8-27-73 98 8-27-73 99 8-27-73 100 8-27-73	



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTED		
NO.		



- GENERAL NOTES FOR SANITARY SEWER CONSTRUCTION
1. THE MINIMUM VERTICAL DISTANCE FROM THE LOW POINT OF A BASEMENT TO THE FLOWLINE OF A SANITARY SEWER AT THE CORRESPONDING HOUSE CONNECTION SHALL BE NOT LESS THAN THE DIAMETER OF THE SEWER PLUS A VERTICAL DISTANCE OF TWO AND ONE HALF (2-1/2') FEET.
  2. GAS, WATER AND OTHER UNDERGROUND UTILITIES SHALL NOT CONFLICT WITH THE DEPTH OR HORIZONTAL LOCATION OF EXISTING AND PROPOSED SANITARY AND STORM SEWERS INCLUDING LATERALS.
  3. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO GRADING OR CONSTRUCTION OF IMPROVEMENTS.
- ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH ST. LOUIS COUNTY WASTE WATER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.
- POURED IN PLACE CONCRETE MANHOLES SHALL NOT BE USED.
- PIPE BEDDING SHALL BE MSD TYPE B EXCEPT THAT THERE SHALL BE 2" OF CRUSHED LIMESTONE AND SCREENINGS BELOW OUTSIDE BOTTOM OF PIPE AND CRUSHED LIMESTONE AND SCREENINGS SHALL BE USED TO 12" ABOVE THE PIPE EXCEPT AS NOTED.
- BACKFILL SHALL BE IN ACCORDANCE WITH MSD SPECIFICATIONS SECTIONS 4.1.1.1, 4.1.1.2 AND 4.1.1.3 EXCEPT AS NOTED.
- ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE OF THE CLASS INDICATED CONFORMING TO ASTM C-76. ALL VCP SHALL BE ASTM C-200 WITH ASTM C-425 JOINTS.
- EACH INDICATED CONNECTION STUB OR WYE WHICH CROSSES UNDER STREET PAVEMENT SHALL BE BUILT TO THE FAR STREET R/W LINE AT A 30° SKEW, AND WITH A CONSTRUCTION GRADIENT OF 0.010 AND SHALL HAVE A STOPPER PLACED IN THE UPPER END OF THE PIPE. ALL BACKFILL OF THE TRENCH IN WHICH THESE CONNECTIONS ARE CONSTRUCTED SHALL BE WITH GRANULAR MATERIAL.
- FOR SPECIAL STRUCTURES AND STANDARD DETAIL, SEE SHEET RP-3 AND D-3.

WYNXCREST DR  
Bldg. #266

REITZ & JENS, INC.

CONSULTING ENGINEERS

ST. LOUIS, MISSOURI

DESIGNED BY: TON

DRAWN BY: ECH

CHECKED BY: DSE

ISSUE DATE: 4-30-73

REGENCY PARK


DEVELOPER - FLEISCHER - SEEGER

SANITARY SEWER PROFILES

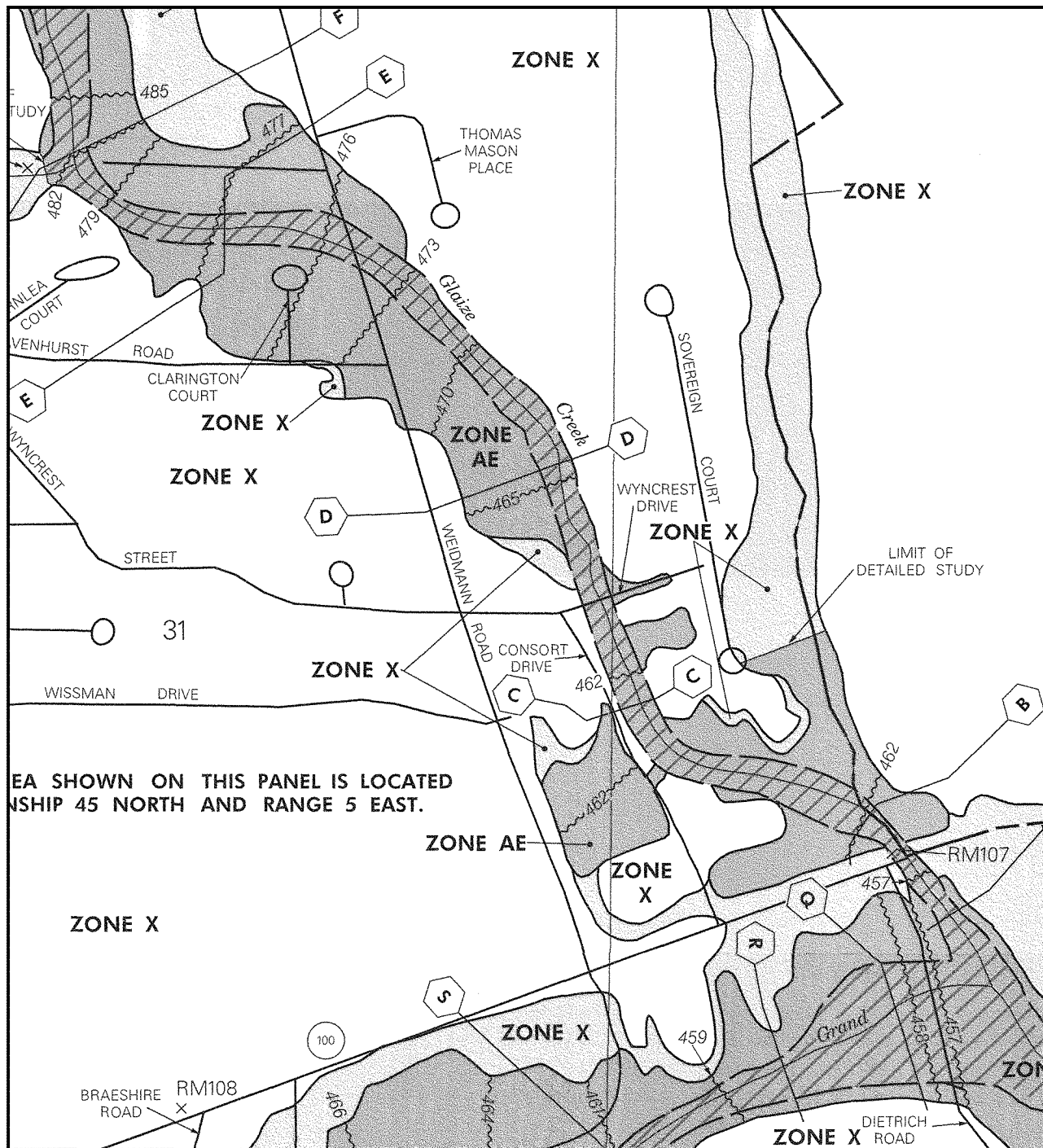
D-2

SHEET NO.



<b>STUPP BROS. BRIDGE &amp; IRON CO.</b> ST. LOUIS, MO.		Shop No. <u>17246</u>
<u>HIGHWAY BRIDGE FOR</u> <u>MANCHESTER WEST OFFICE &amp; INO. PARK</u> <u>DEVELOPER - FLEISCHER - SEEGER</u>		
Drawn By <u>HW</u>	Date <u>4-24-73</u>	Ch'd By <u>JWC</u>
 Strength Economy Versatility		Sheet No. <u>E1</u>  Total Sheets <u>1</u>



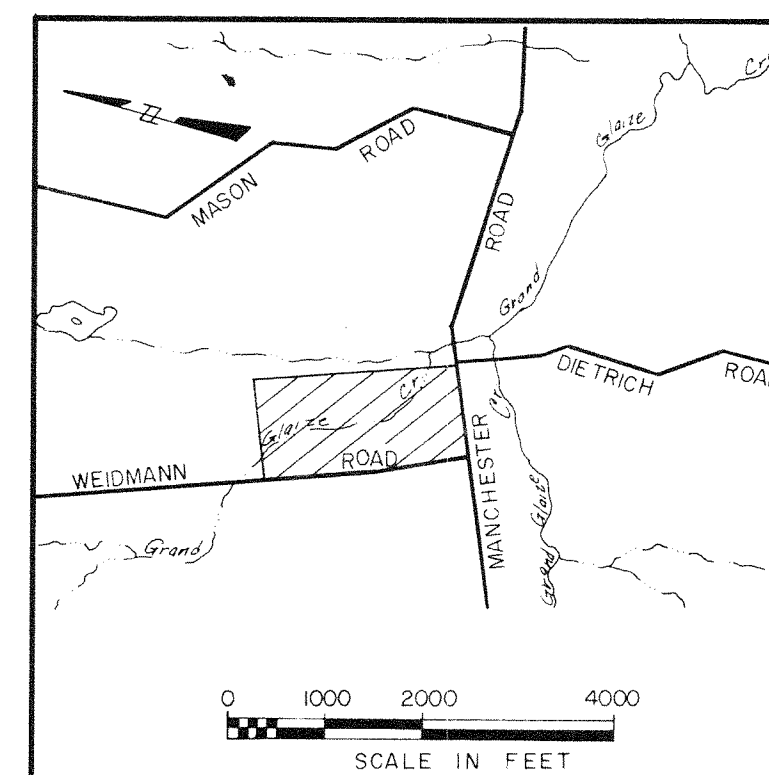


This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

# REGENCY PARK

## INDEX OF SHEETS

SHEET NO.	TITLE
	GRADING AND SEWER PLANS
RP-1.....	STREET GRADES
RP-2.....	INTERSECTION DETAILS
RP-3.....	STANDARD DETAILS
RP-4.....	WEIDMANN ROAD IMPROVEMENTS
RP-5.....	CROSS SECTIONS-WEIDMANN ROAD
RP-6.....	CROSS SECTIONS-WEIDMANN ROAD
RP-7.....	PAVEMENT DETAILS
D-1.....	STORM SEWER PROFILES
D-2.....	SANITARY SEWER PROFILES
D-3.....	STANDARD DETAILS
B-1.....	BRIDGE DETAILS
B-2.....	BRIDGE DETAILS



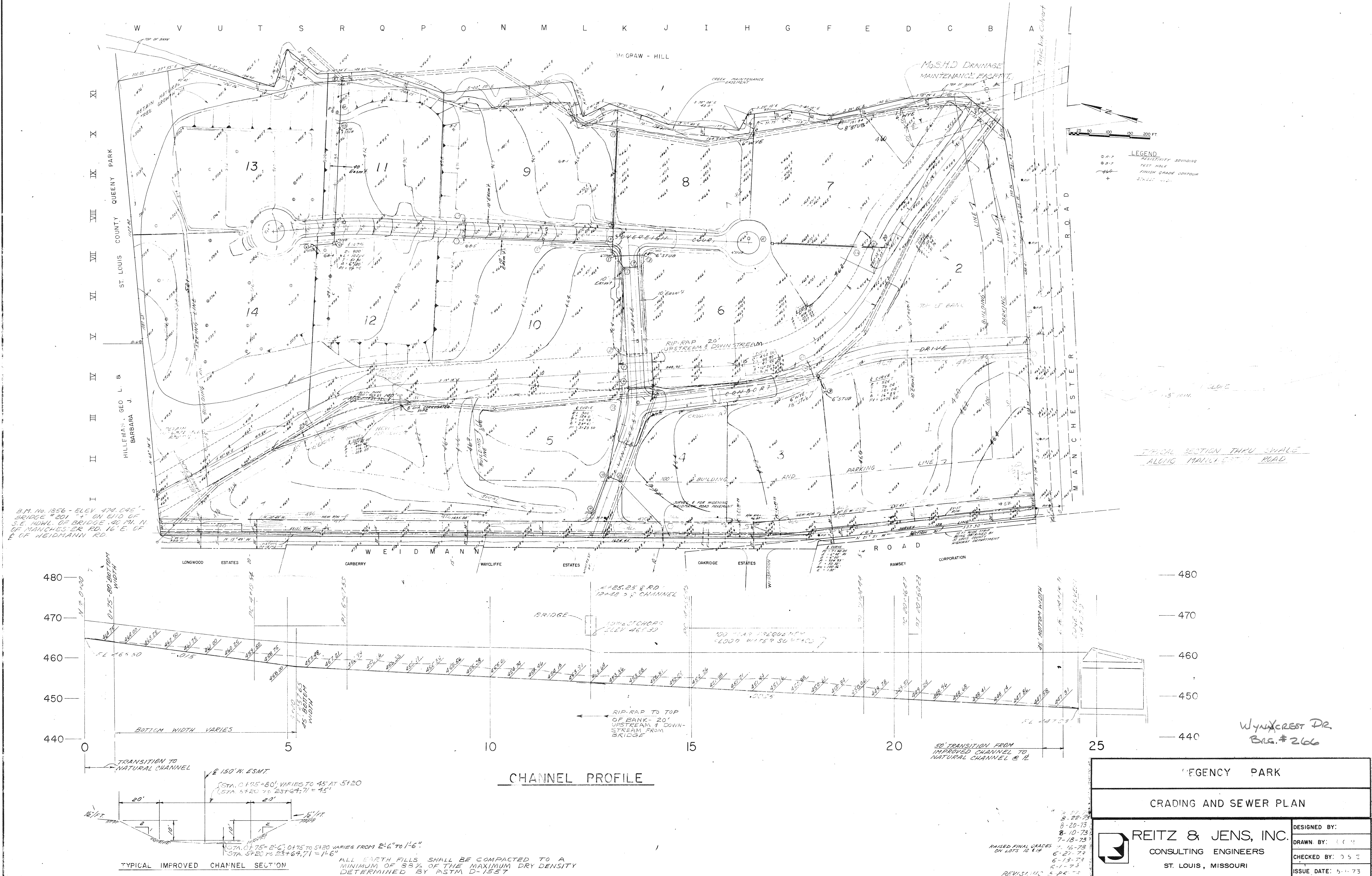
LOCATION MAP

DEVELOPED BY  
MANCHESTER PROPERTIES, INC.  
5725 MANCHESTER ROAD  
ST. LOUIS, MISSOURI 63110

PREPARED BY  
REITZ & JENS, INC.  
CONSULTING ENGINEERS  
111 S. MERAMEC AVE.  
CLAYTON, MISSOURI 63105

WYNXEREST DRIVE  
BRIDGE No. 2666

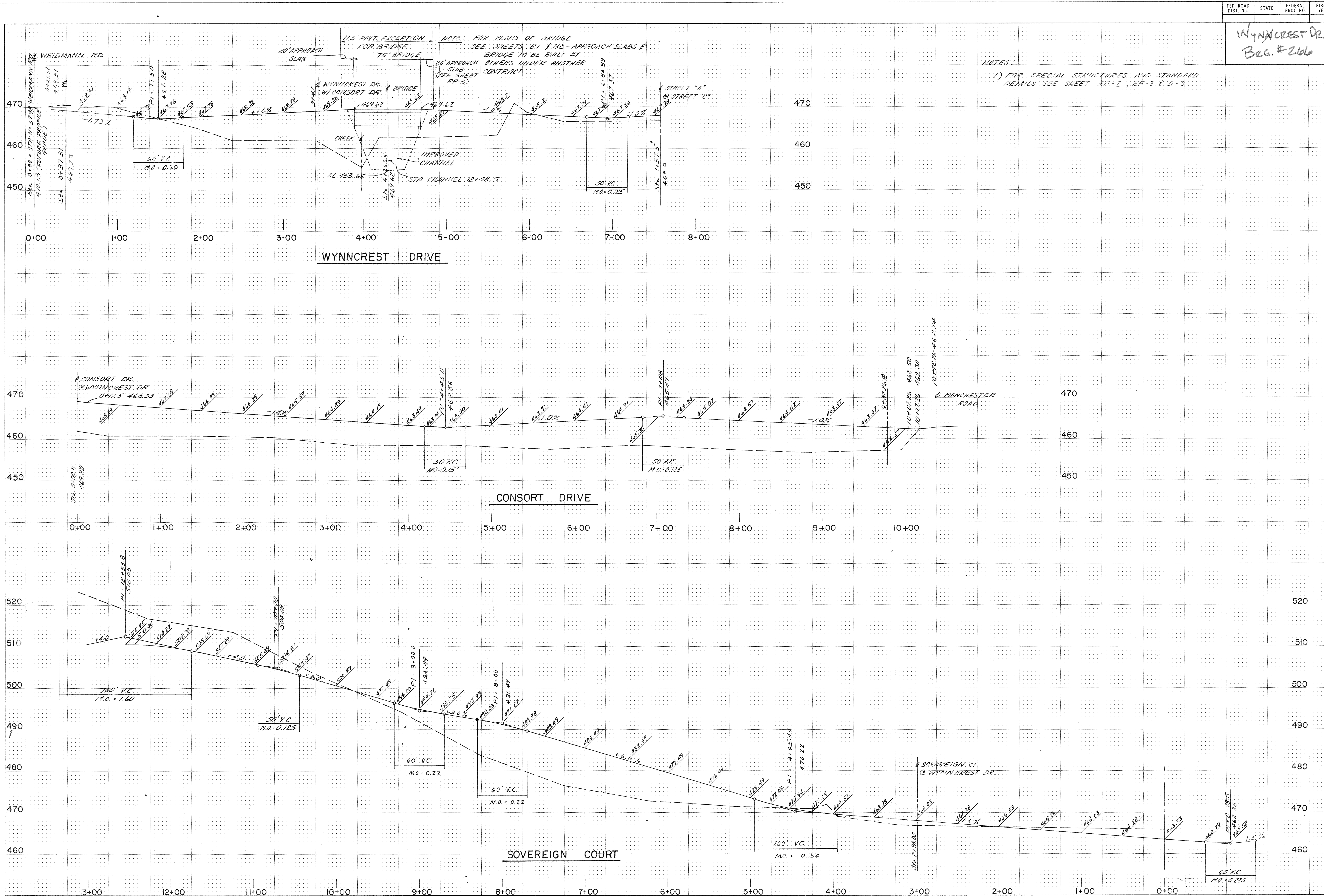
# REGENCY PARK





FINAL	BY	DATE
SURVEY		
NOTE BOOK		
NO.		

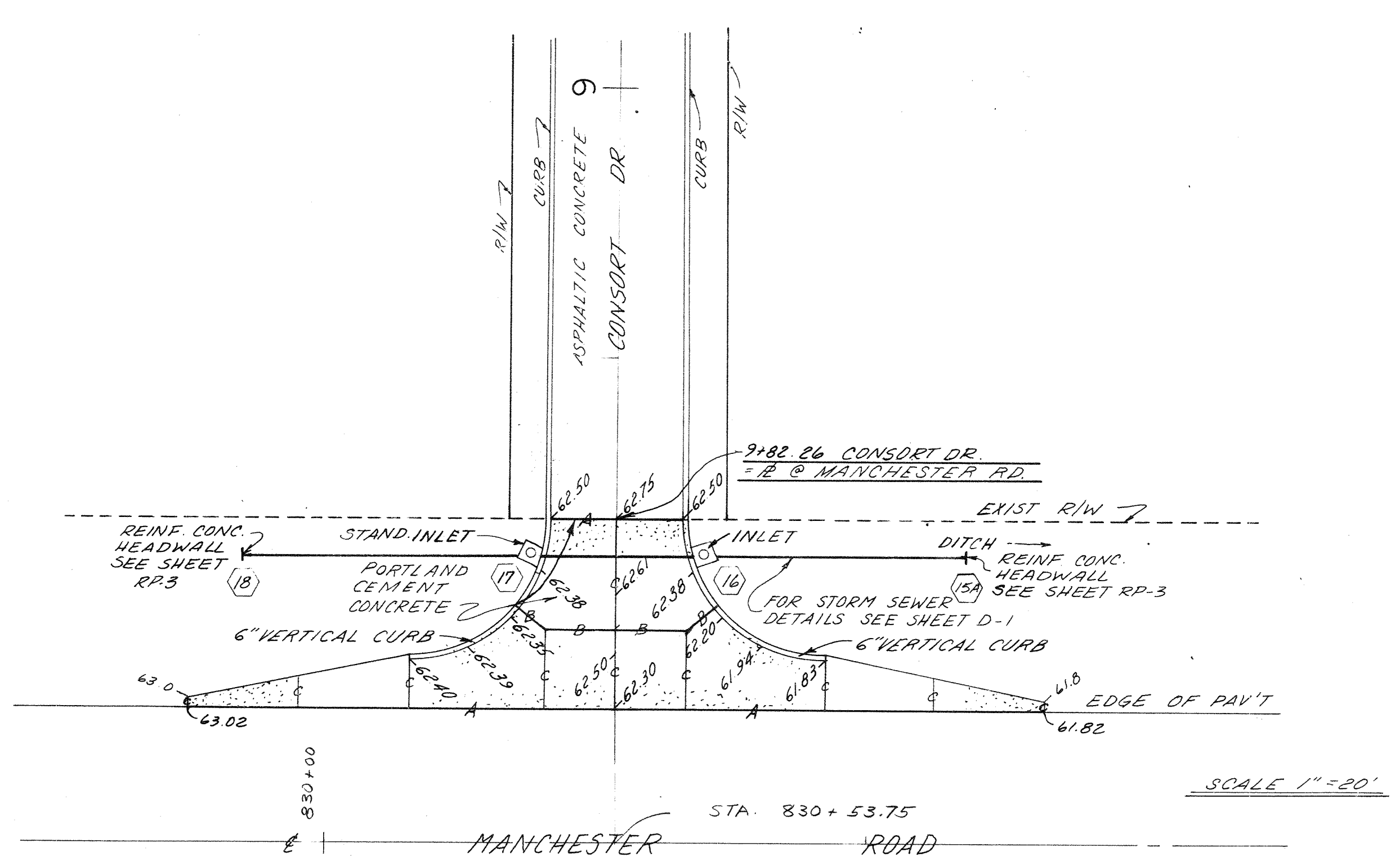
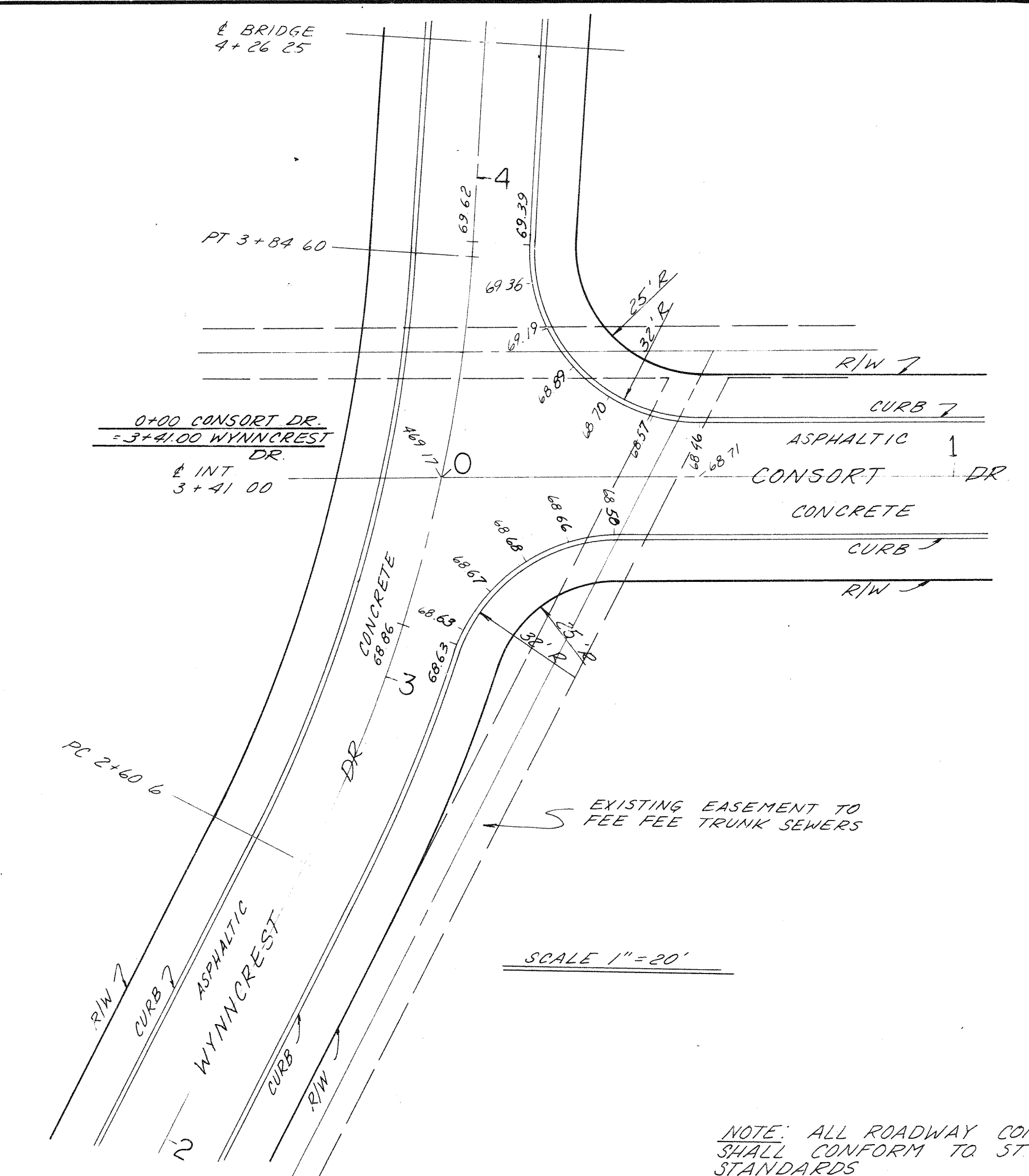
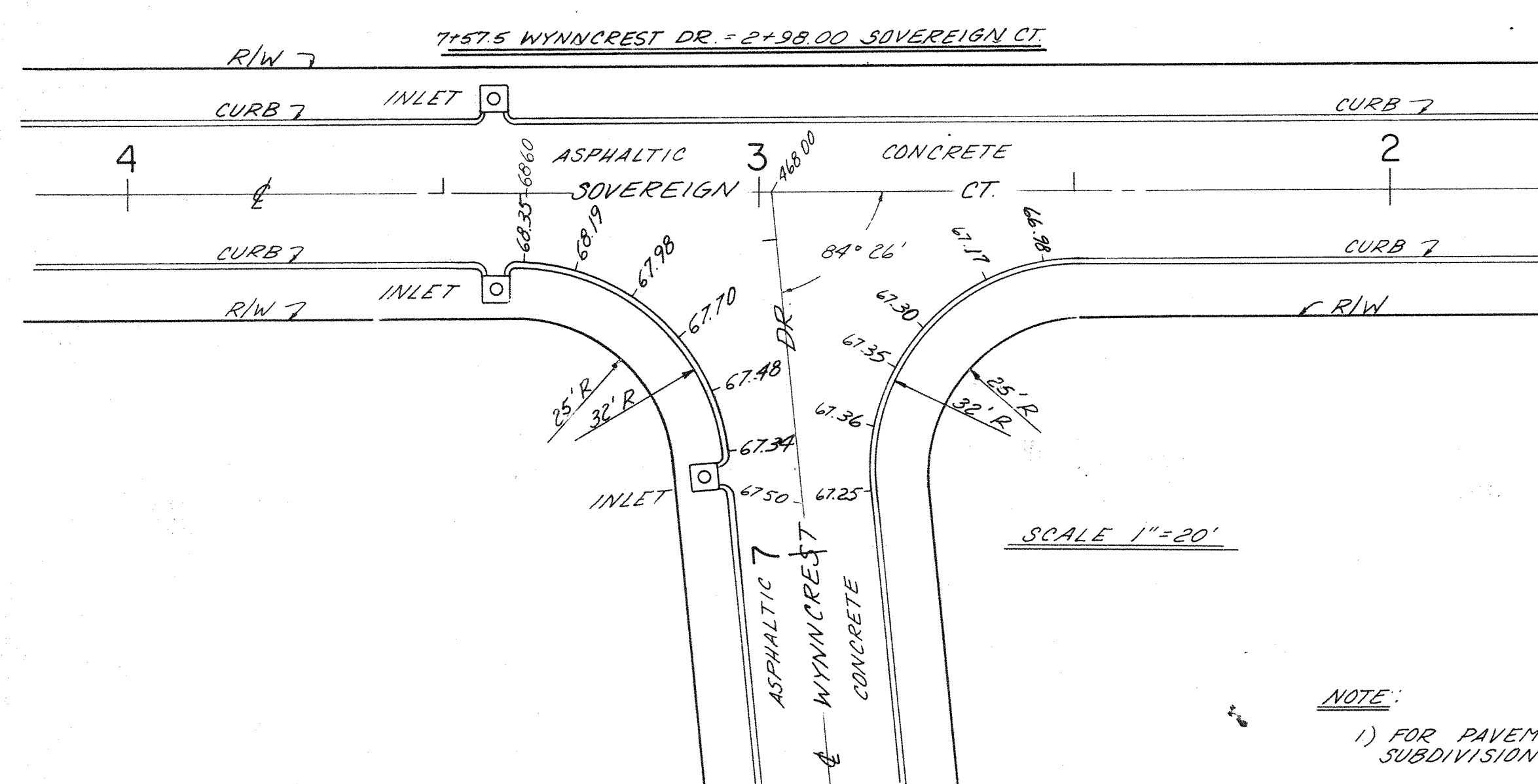
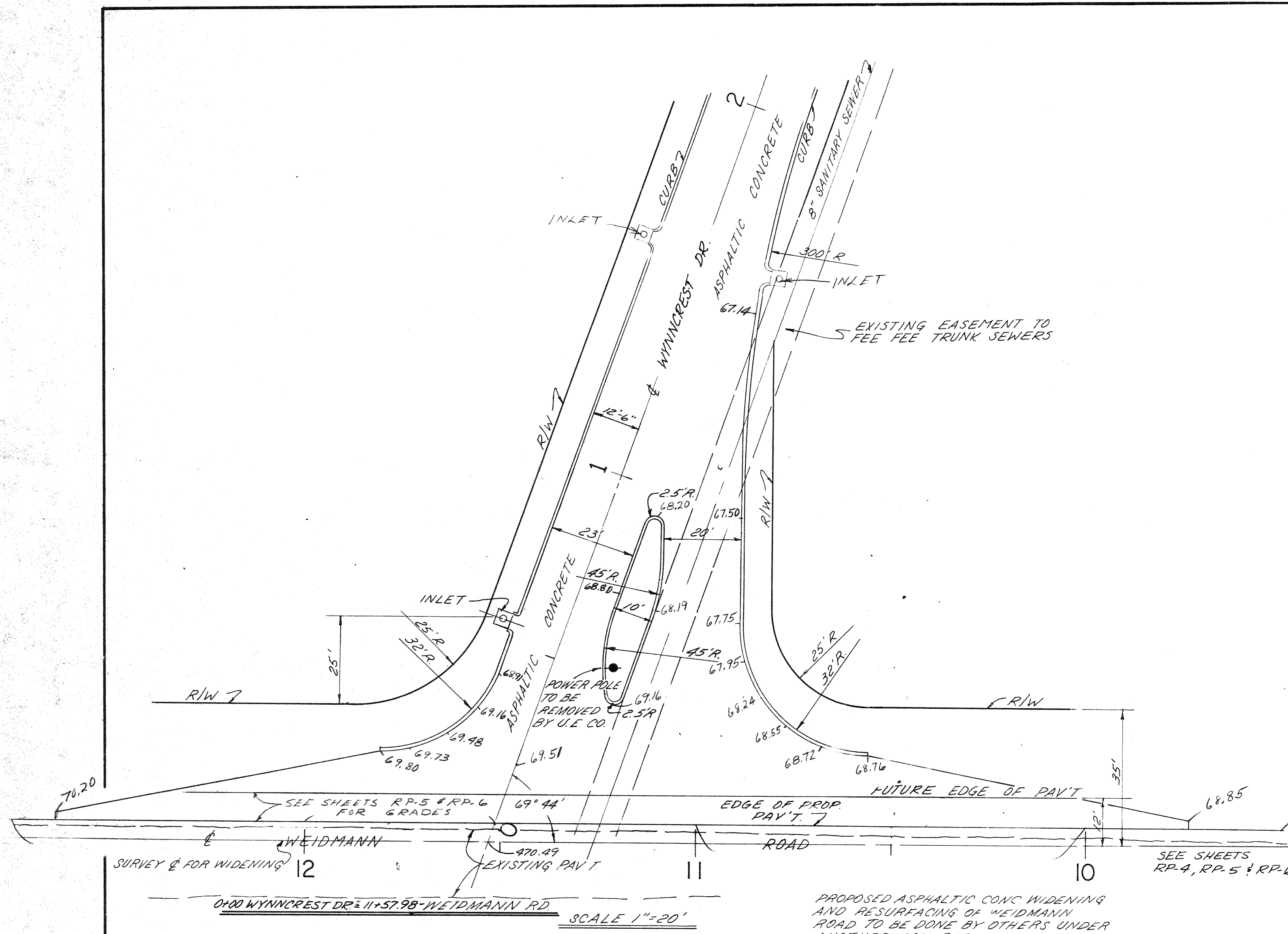
ORIGINAL	BY	DATE
SURVEY		
NOTE BOOK		
NO.		




WYNCREST DR.  
Beg. #266

NOTES:  
1) FOR SPECIAL STRUCTURES AND STANDARD  
DETAILS SEE SHEET RP-2, RP-3 & D-3

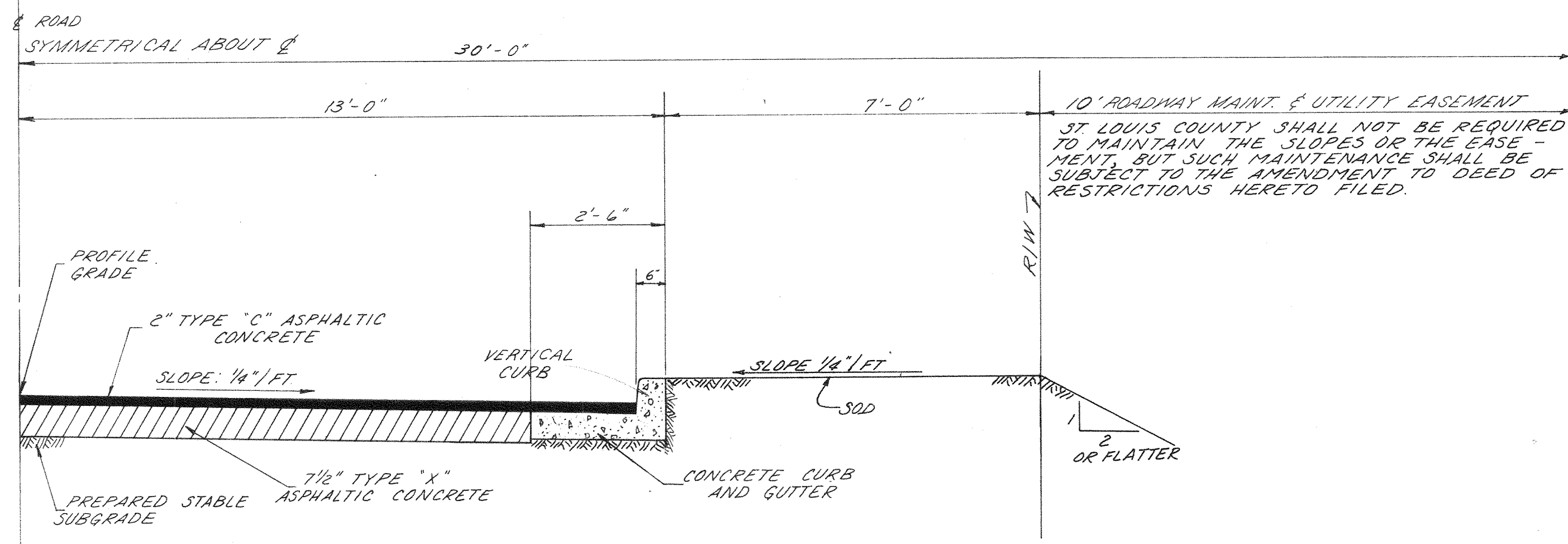
REITZ & JENS, INC. CONSULTING ENGINEERS ST. LOUIS, MISSOURI		DESIGNED BY: D.S.E. DRAWN BY: E.C.H. CHECKED BY: D.S.E. ISSUE DATE: 4-30-73
REGENCY PARK DEVELOPER — FLEISCHER-SEEGER		STREET GRADES
PROJECT NO. 54		SHEET NO. 1



WYNCREST DR.  
BEG. # 266

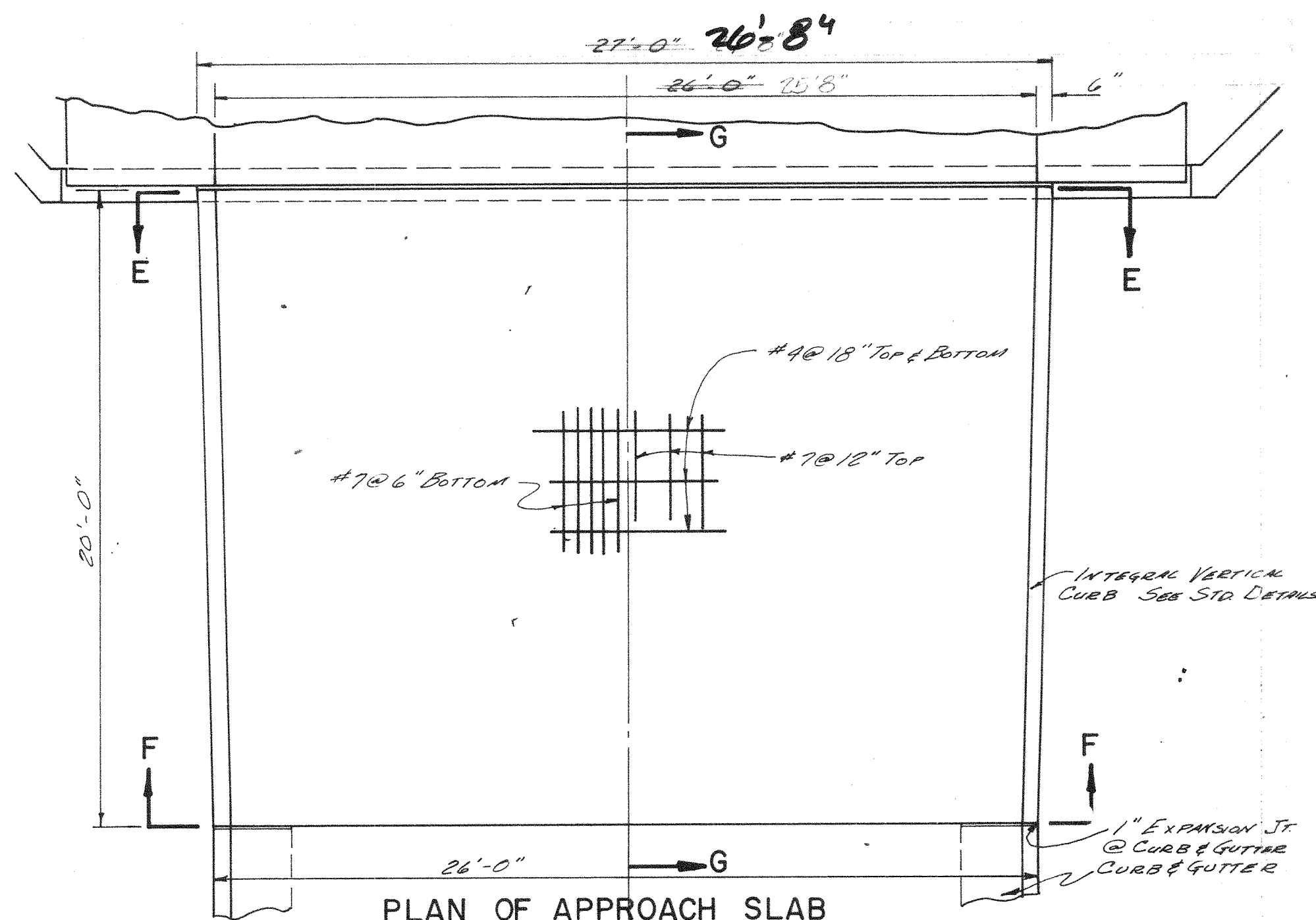
				REITZ & JENS, INC.		DESIGNED BY: D S E		REGENCY PARK		RP-2	
				CONSULTING ENGINEERS		DRAWN BY: E C H		DEVELOPER - FLEISCHER - SEEGER			
				ST. LOUIS, MISSOURI		CHECKED BY: H M R		INTERSECTION DETAILS			
						ISSUE DATE: 5-14-73				SHEET NO.	
REV. NO.		DATE		DESCRIPTION							
1	5-23-73	REV CURB & PAV'T DETAILS @ WEIDMANN									
2	6-1-73	REV CURB & PAV'T DETAILS @ WEIDMANN									
3	8-21-73	INLET LOCATIONS & PAV'T WARDING									
4	9-13-73										
5	9-20-73										



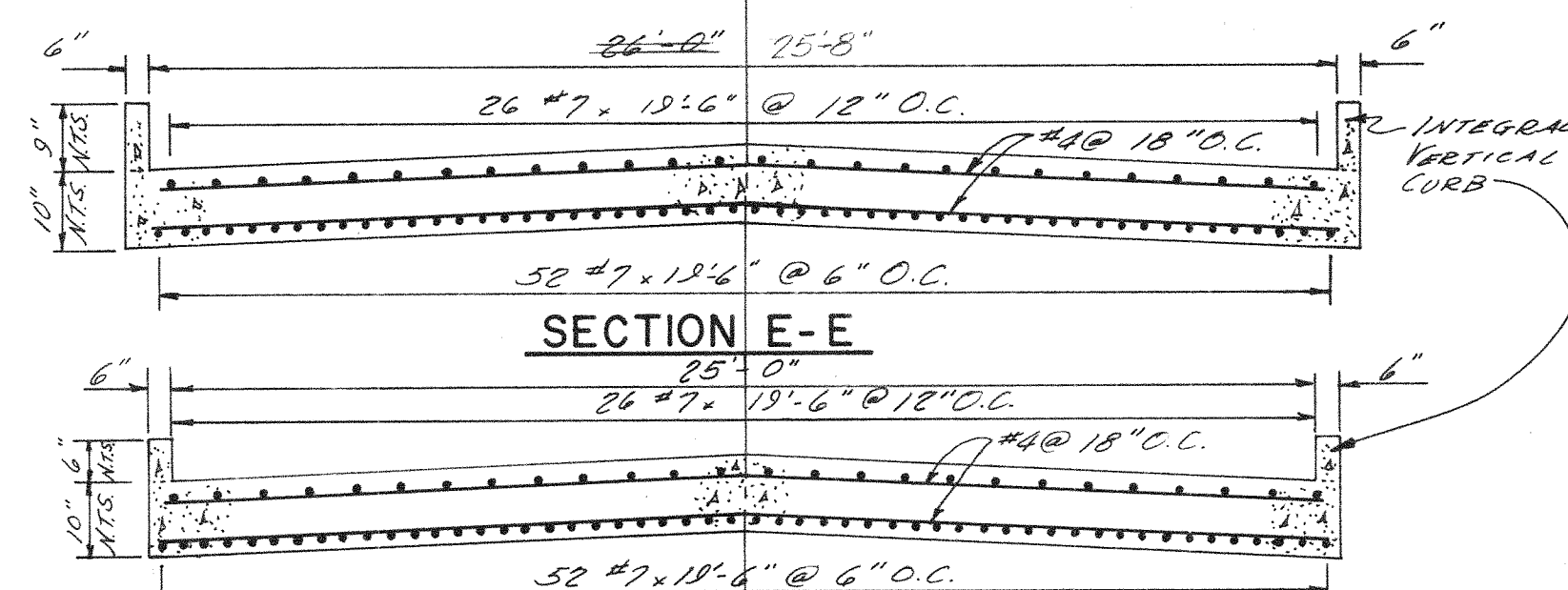


TYPICAL PAVEMENT SECTION

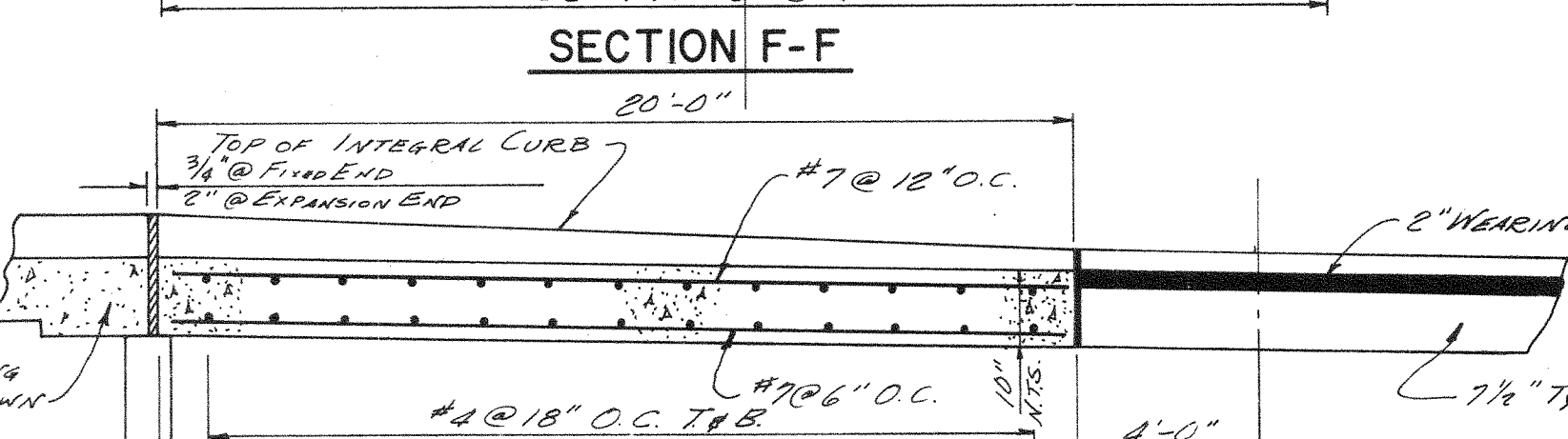
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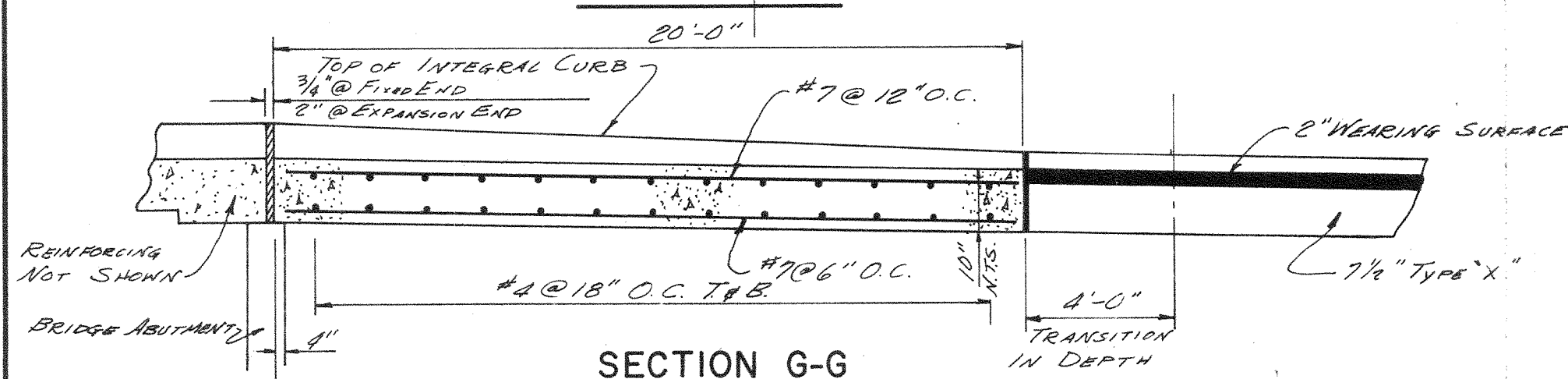
PLAN OF APPROACH SLAB



SECTION E-E



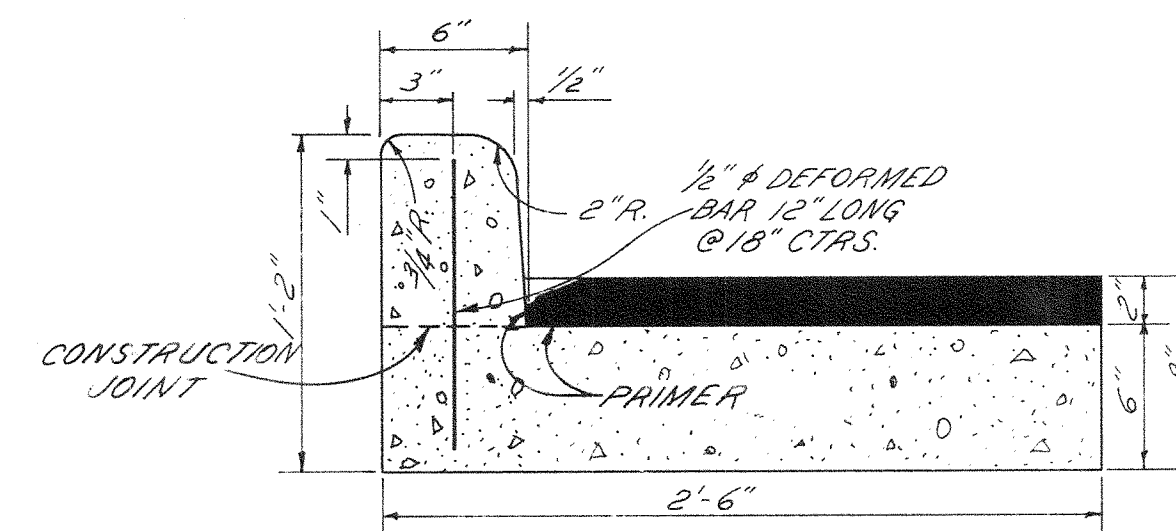
SECTION F-F



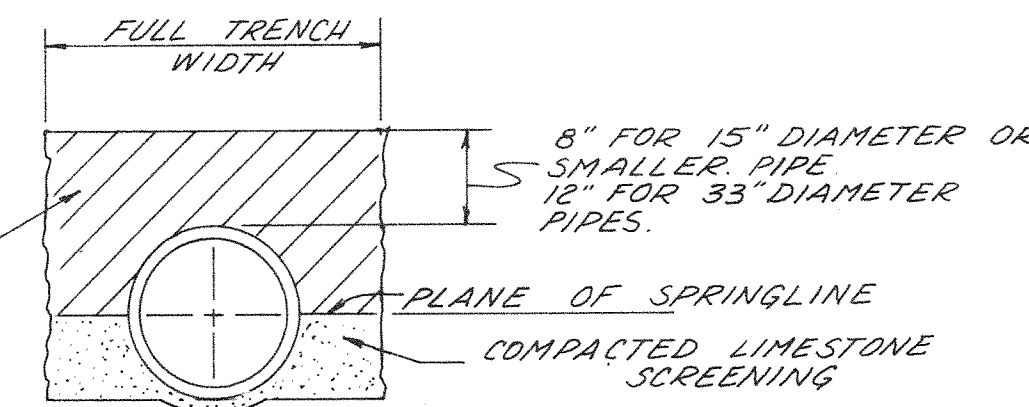
SECTION G-G

BRIDGE APPROACH SLABS (2 REQD.)

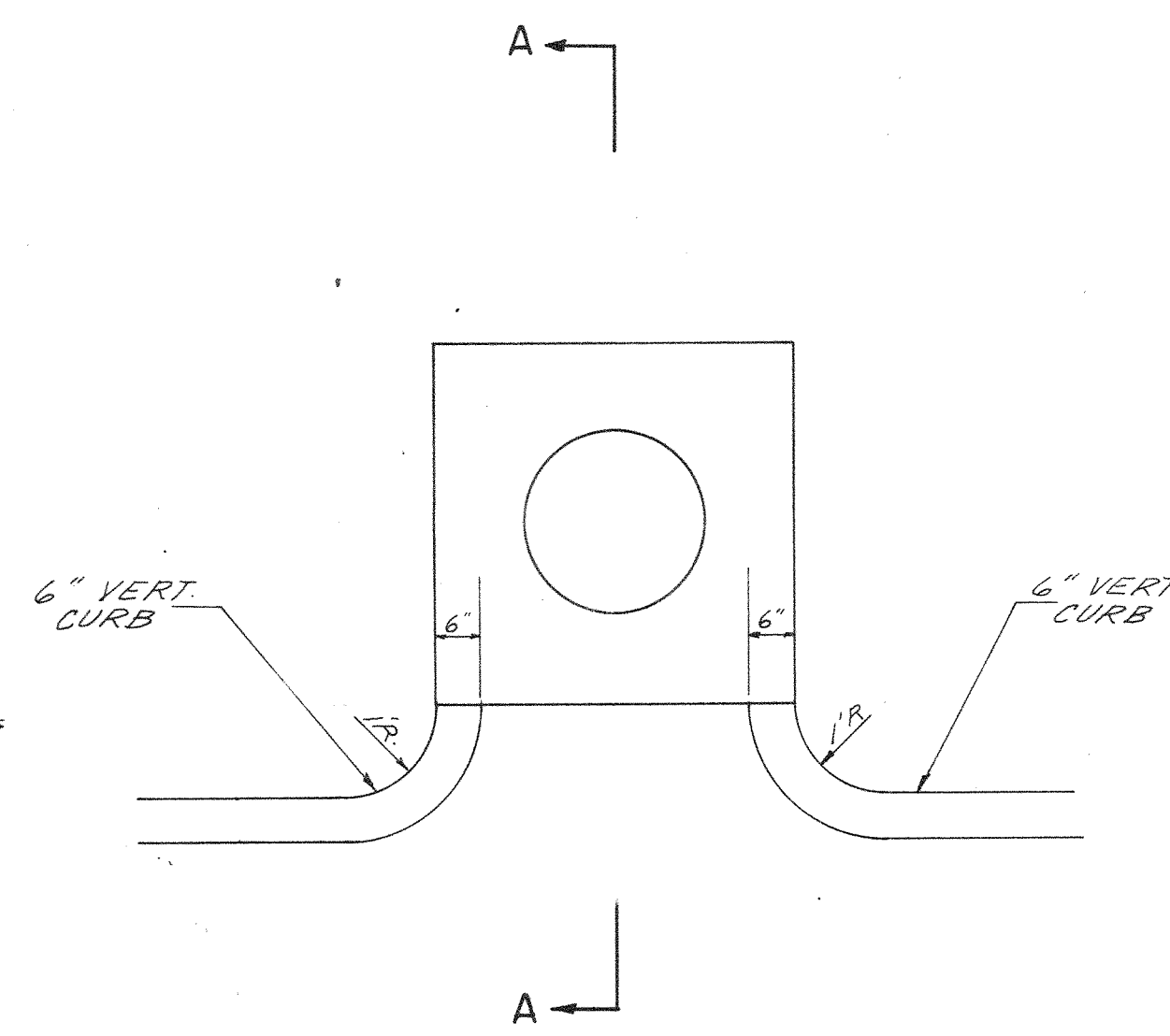
SCALE: 1/4" = 1'-0"



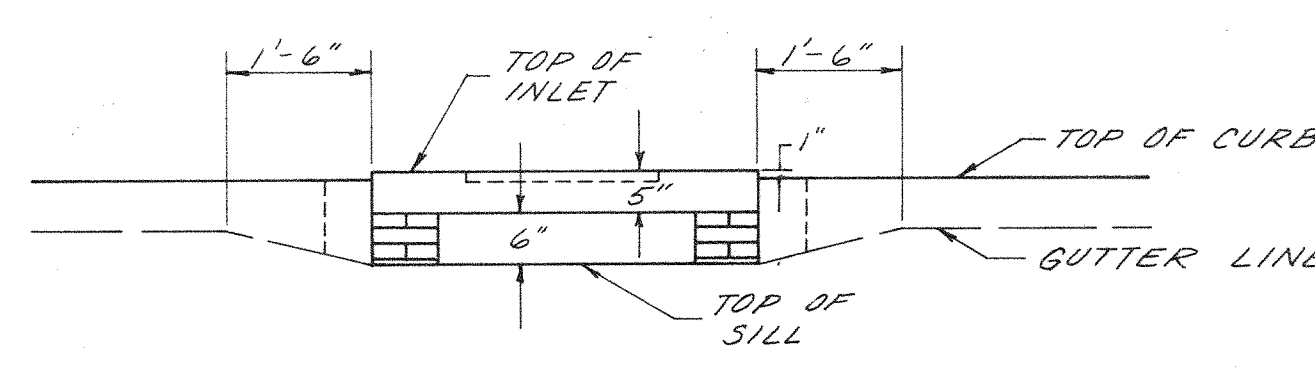
VERTICAL CURB AND GUTTER



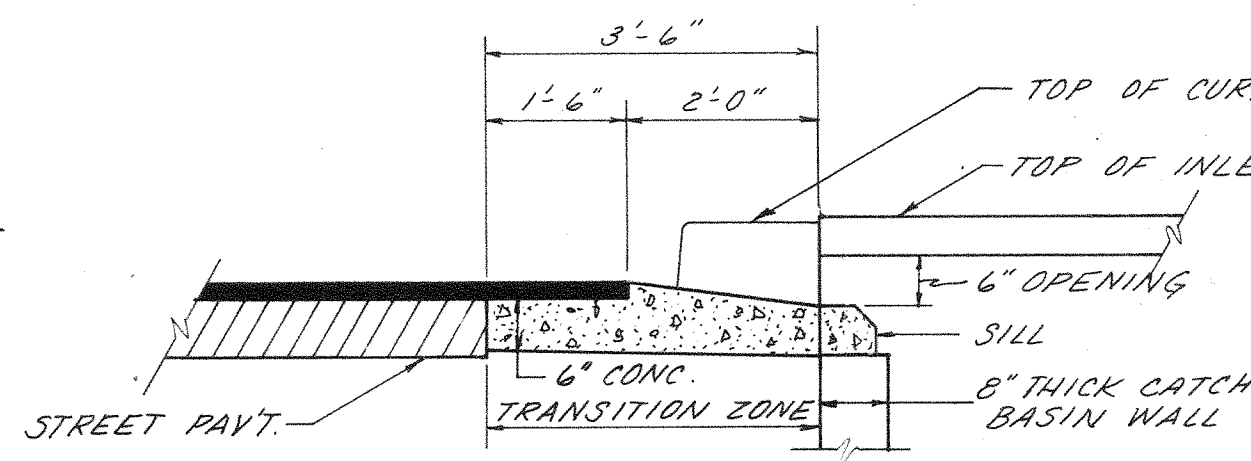
CONCRETE HAUNCH DETAIL



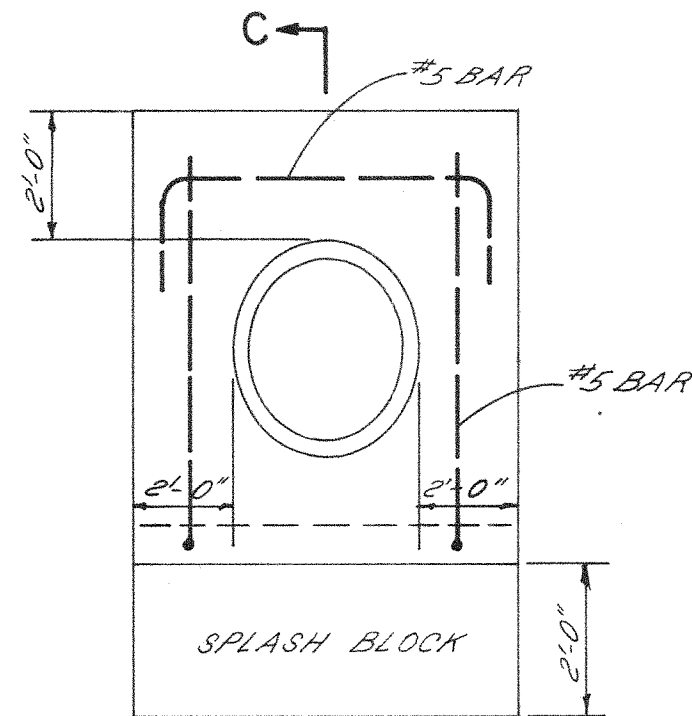
PLAN OF INLET



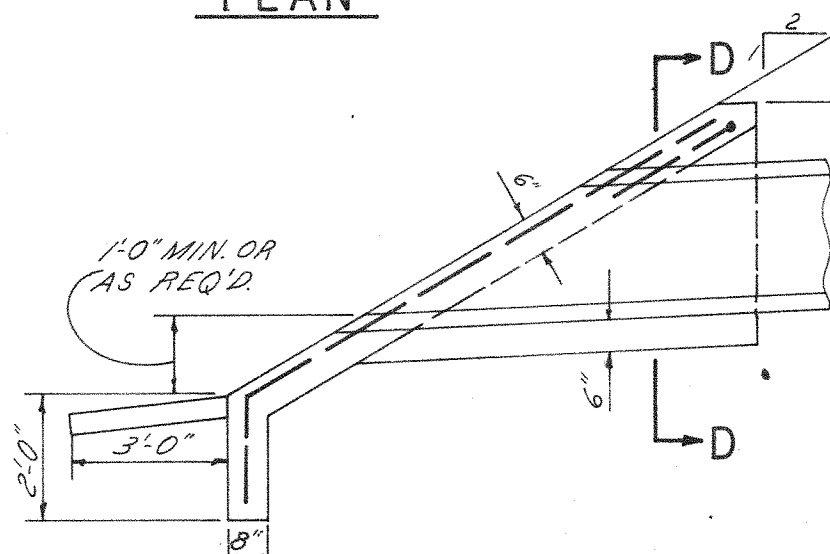
FRONT VIEW



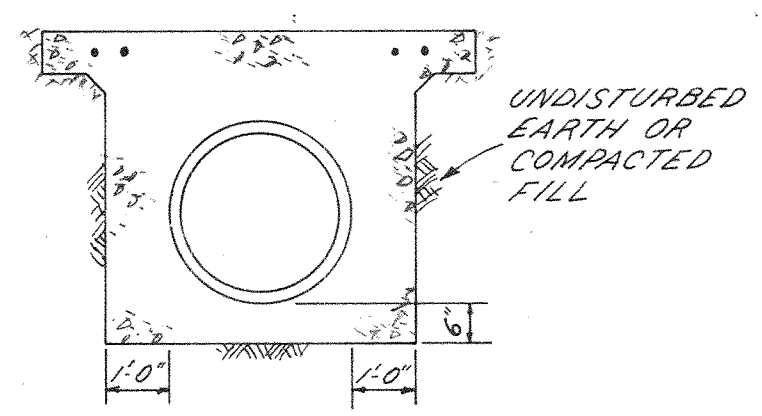
SECTION A-A



PLAN

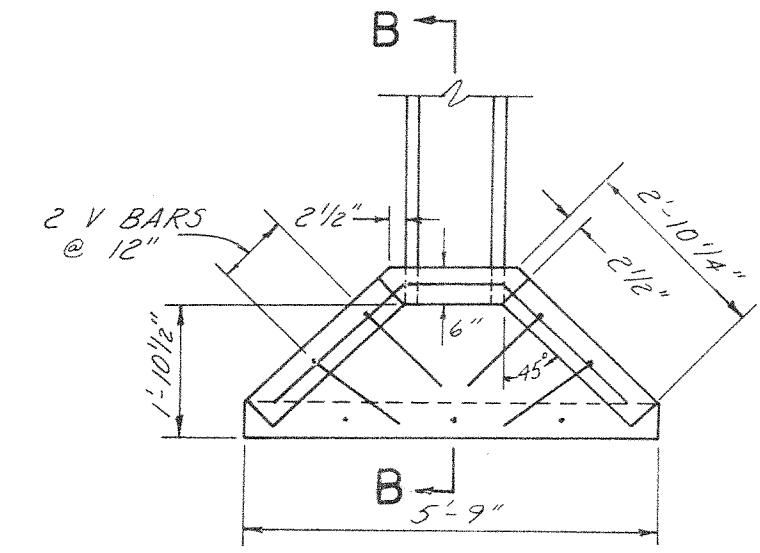


SECTION C-C

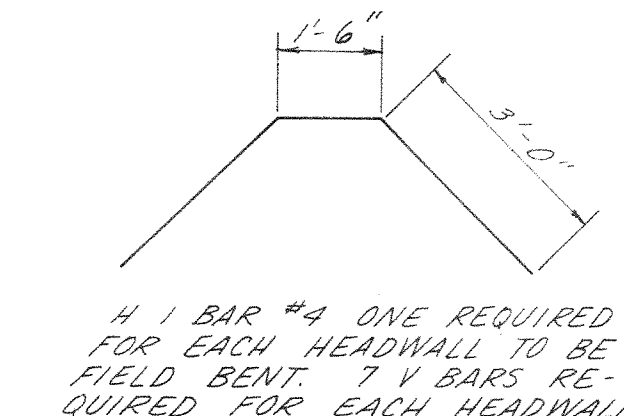


SECTION D-D

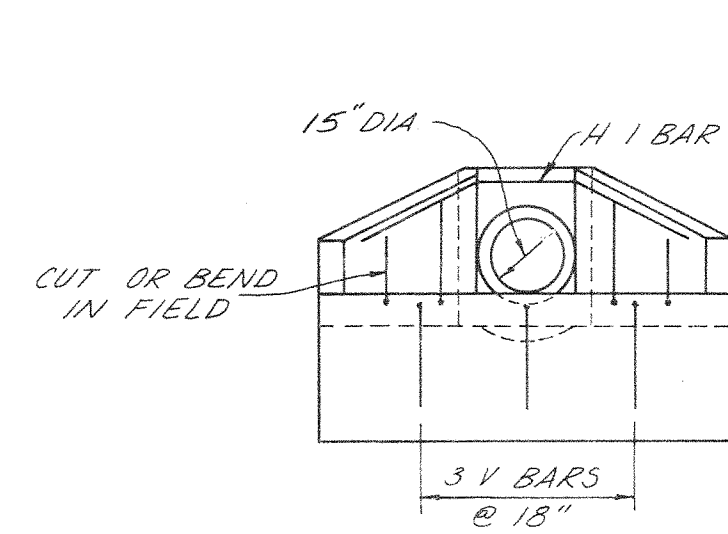
CONCRETE END SECTION IN CHANNEL



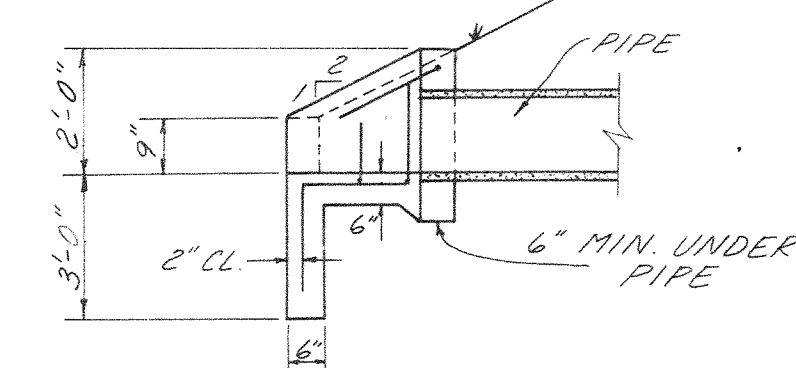
PLAN



BAR DETAIL

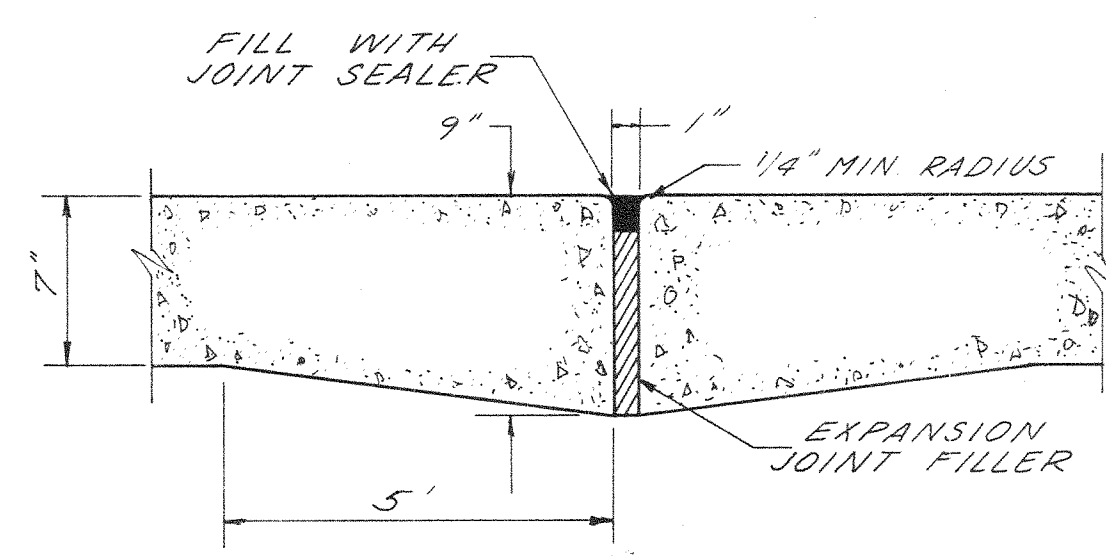


END VIEW

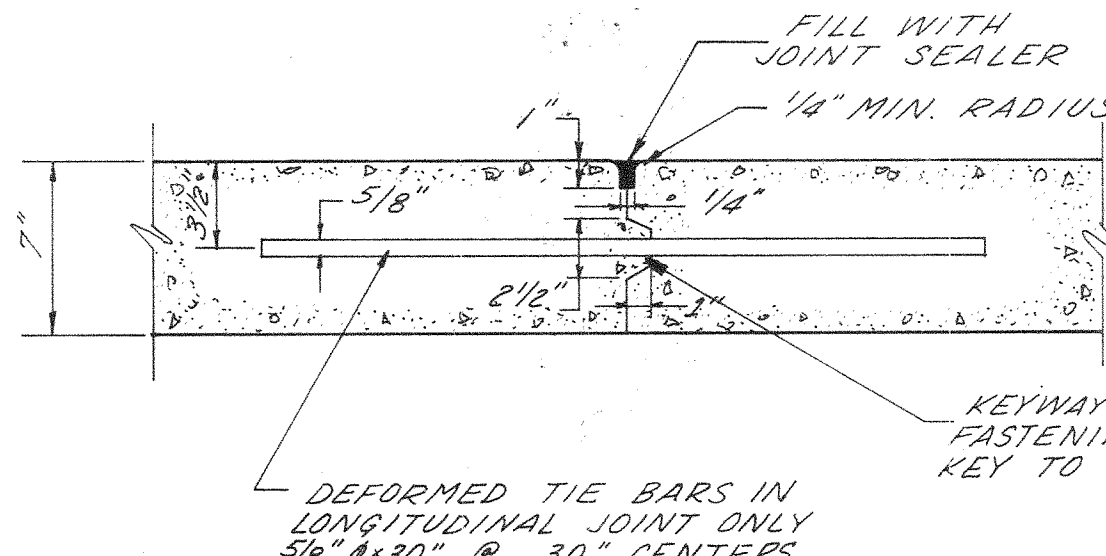


SECTION B-B

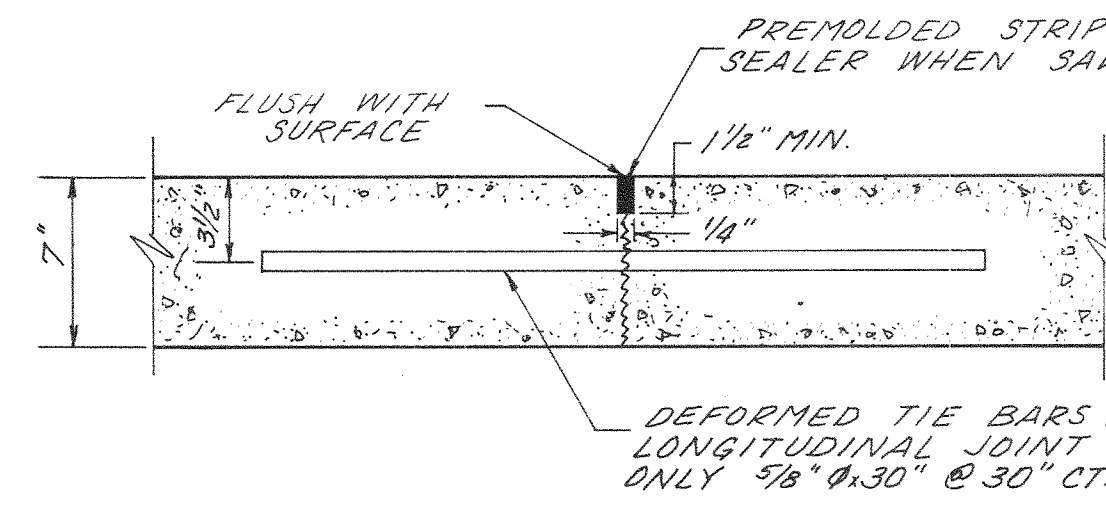
15" REINFORCED CONCRETE HEADWALL



TYPE A EXPANSION JOINT



TYPE B LONGITUDINAL CONSTRUCTION JOINT



TYPE C

JOINT DETAILS

1/2" = 1'-0"

RECEIVED

OCT 12 1973

DEPT. OF HIGHWAYS AND TRAFFIC ADM. OFFICE

8-11-73		9-11-73		10-11-73		11-11-73		12-11-73		1-12-74		2-12-74		3-12-74		4-12-74		5-12-74		6-12-74		7-12-74		8-12-74		9-12-74		10-12-74		11-12-74		12-12-74		1-1-75		2-1-75		3-1-75		4-1-75		5-1-75		6-1-75		7-1-75		8-1-75		9-1-75		10-1-75		11-1-75		12-1-75		1-2-76		2-2-76		3-2-76		4-2-76		5-2-76		6-2-76		7-2-76		8-2-76		9-2-76		10-2-76		11-2-76		12-2-76		1-3-77		2-3-77		3-3-77		4-3-77		5-3-77		6-3-77		7-3-77		8-3-77		9-3-77		10-3-77		11-3-77		12-3-77		1-4-78		2-4-78		3-4-78		4-4-78		5-4-78		6-4-78		7-4-78		8-4-78		9-4-78		10-4-78		11-4-78		12-4-78		1-5-79		2-5-79		3-5-79		4-5-79		5-5-79		6-5-79		7-5-79		8-5-79		9-5-79		10-5-79		11-5-79		12-5-79		1-6-80		2-6-80		3-6-80		4-6-80		5-6-80		6-6-80		7-6-80		8-6-80		9-6-80		10-6-80		11-6-80		12-6-80		1-7-81		2-7-81		3-7-81		4-7-81		5-7-81		6-7-81		7-7-81		8-7-81		9-7-81		10-7-81		11-7-81		12-7-81		1-8-82		2-8-82		3-8-82		4-8-82		5-8-82		6-8-82		7-8-82		8-8-82		9-8-82		10-8-82		11-8-82		12-8-82		1-9-83		2-9-83		3-9-83		4-9-83		5-9-83		6-9-83		7-9-83		8-9-83		9-9-83		10-9-83		11-9-83		12-9-83		1-10-84		2-10-84		3-10-84		4-10-84		5-10-84		6-10-84		7-10-84		8-10-84		9-10-84		10-10-84		11-10-84		12-10-84		1-11-85		2-11-85		3-11-85		4-11-85		5-11-85		6-11-85		7-11-85		8-11-85		9-11-85		10-11-85		11-11-85		12-11-85		1-12-86		2-12-86		3-12-86		4-12-86		5-12-86		6-12-86		7-12-86		8-12-86		9-12-86		10-12-86		11-12-86		12-12-86		1-1-87		2-1-87		3-1-87		4-1-87		5-1-87		6-1-87		7-1-87		8-1-87		9-1-87		10-1-87		11-1-87		12-1-87		1-2-88		2-2-88		3-2-88		4-2-88		5-2-88		6-2-88		7-2-88		8-2-88		9-2-88		10-2-88		11-2-88		12-2-88		1-3-89		2-3-89		3-3-89		4-3-89		5-3-89		6-3-89		7-3-89		8-3-89		9-3-89		10-3-89		11-3-89		12-3-89		1-4-90		2-4-90		3-4-90		4-4-90		5-4-90		6-4-90		7-4-90		8-4-90		9-4-90		10-4-90		11-4-90		12-4-90		1-5-91		2-5-91		3-5-91		4-5-91		5-5-91		6-5-91		7-5-91		8-5-91		9-5-91		10-5-91		11-5-91		12-5-91		1-6-92		2-6-92		3-6-92		4-6-92		5-6-92		6-6-92		7-6-92		8-6-92		9-6-92		10-6-92		11-6-92		12-6-92		1-7-93		2-7-93		3-7-93		4-7-93		5-7-93		6-7-93		7-7-93		8-7-93		9-7-93		10-7-93		11-7-93		12-7-93		1-8-94		2-8-94		3-8-94		4-8-94		5-8-94		6-8-94		7-8-94		8-8-94		9-8-94		10-8-94		11-8-94		12-8-94		1-9-95		2-9-95		3-9-95		4-9-95		5-9-95		6-9-95		7-9-95		8-9-95		9-9-95		10-9-95		11-9-95		12-9-95		1-10-96		2-10-96		3-10-96		4-10-96		5-10-96		6-10-96		7-10-96		8-10-96		9-10-96		10-10-96		11-10-96		12-10-96		1-11-97		2-11-97		3-11-97		4-11-97		5-11-97		6-11-97		7-11-97		8-11-97		9-11-97		10-11-97		11-11-97		12-11-97		1-12-98		2-12-98		3-12-98		4-12-98		5-12-98		6-12-98		7-12-98		8-12-98		9-12-98		10-12-98		11-12-98		12-12-98		1-1-99		2-1-99		3-1-99		4-1-99		5-1-99		6-1-99		7-1-99		8-1-99		9-1-99		10-1-99		11-1-99		12-1-99		1-2-00		2-2-00		3-2-00		4-2-00		5-2-00		6-2-00		7-2-00		8-2-00		9-2-00		10-2-00		11-2-00		12-2-00		1-3-01		2-3-01		3-3-01		4-3-01		5-3-01		6-3-01		7-3-01		8-3-01		9-3-01		10-3-01		11-3-01		12-3-01		1-4-02		2-4-02		3-4-02		4-4-02		5-4-02		6-4-02		7-4-02		8-4-02		9-4-02		10-4-02		11-4-02		12-4-02		1-5-03		2-5-03		3-5-03		4-5-03		5-5-03		6-5-03		7-5-03		8-5-03		9-5-03		10-5-03		11-5-03		12-5-03		1-6-04		2-6-04		3-6-04		4-6-04		5-6-04		6-6-04		7-6-04		8-6-04		9-6-04		10-6-04		11-6-04		12-6-04		1-7-05		2-7-05		3-7-05		4-7-05		5-7-05		6-7-05		7-7-05		8-7-05		9-7-05		10-7-05		11-7-05		12-7-05		1-8-06		2-8-06		3-8-06		4-8-06		5-8-06		6-8-06		7-8-06		8-8-06		9-8-06		10-8-06		11-8-06		12-8-06		1-9-07		2-9-07		3-9-07		4-9-07		5-9-07		6-9-07		7-9-07		8-9-07		9-9-07		10-9-07		11-9-07		12-9-07		1-10-08		2-10-08		3-10-08		4-10-08		5-10-08		6-10-08		7-10-08		8-10-08		9-10-08		10-10-08		11-10-08		12-10-08		1-11-09		2-11-09		3-11-09		4-11-09		5-11-09		6-11-09		7-11-09		8-11-09		9-11-09		10-11-09		11-11-09		12-11-09		1-12-10		2-12-10		3-12-10		4-12-10		5-12-10		6-12-10		7-12-10		8-12-10		9-12-10		10-12-10		11-12-10		12-12-10		1-1-11		2-1-11		3-1-11		4-1-11		5-1-11		6-1-11		7-1-11		8-1-11		9-1-11		10-1-11		11-1-11		12-1-11		1-2-12		2-2-12		3-2-12		4-2-12		5-2-12		6-2-12		7-2-12		8-2-12		9-2-12		10-2-12		11-2-12		12-2-12		1-3-13		2-3-13		3-3-13		4-3-13		5-3-13		6-3-13		7-3-13		8-3-13		9-3-13		10-3-13		11-3-13		12-3-13		1-4-14		2-4-14		3-4-14		4-4-14		5-4-14		6-4-14		7-4-14		8-4-14		9-4-14		10-4-14		11-4-14		12-4-14		1-5-15		2-5-15		3-5-15		4-5-15		5-5-15		6-5-15		7-5-15		8-5-15		9-5-15		10-5-15		11-5-15		12-5-15		1-6-16		2-6-16		3-6-16		4-6-16		5-6-16		6-6-16		7-6-16		8-6-16		9-6-16		10-6-16		11-6-16		12-6-16		1-7-17		2-7-17		3-7-17		4-7-17		5-7-17		6-7-17		7-7-17		8-7-17		9-7-17		10-7-17		11-7-17		12-7-17		1-8-18		2-8-18		3-8-18		4-8-18		5-8-18		6-8-18		7-8-18		8-8-18		9-8-18		10-8-18		11-8-18		12-8-18		1-9-19		2-9-19		3-9-19		4-9-19		5-9-19		6-9-19		7-9-19		8-9-19		9-9-19		10-9-19		11-9-19		12-9-19		1-10-20		2-10-20		3-10-20		4-10-20		5-10-20		6-10-20		7-10-20		8-10-20		9-10-20		10-10-20		11-10-20		12-10-20		1-11-21		2-11-21		3-11-21		4-11-21		5-11-21		6-11-21		7-11-21		8-11-21		9-11-21		10-11-21		11-11-21		12-11-21		1-12-22		2-12-22		3-12-22		4-12-22		5-12-22		6-12-22		7-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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		

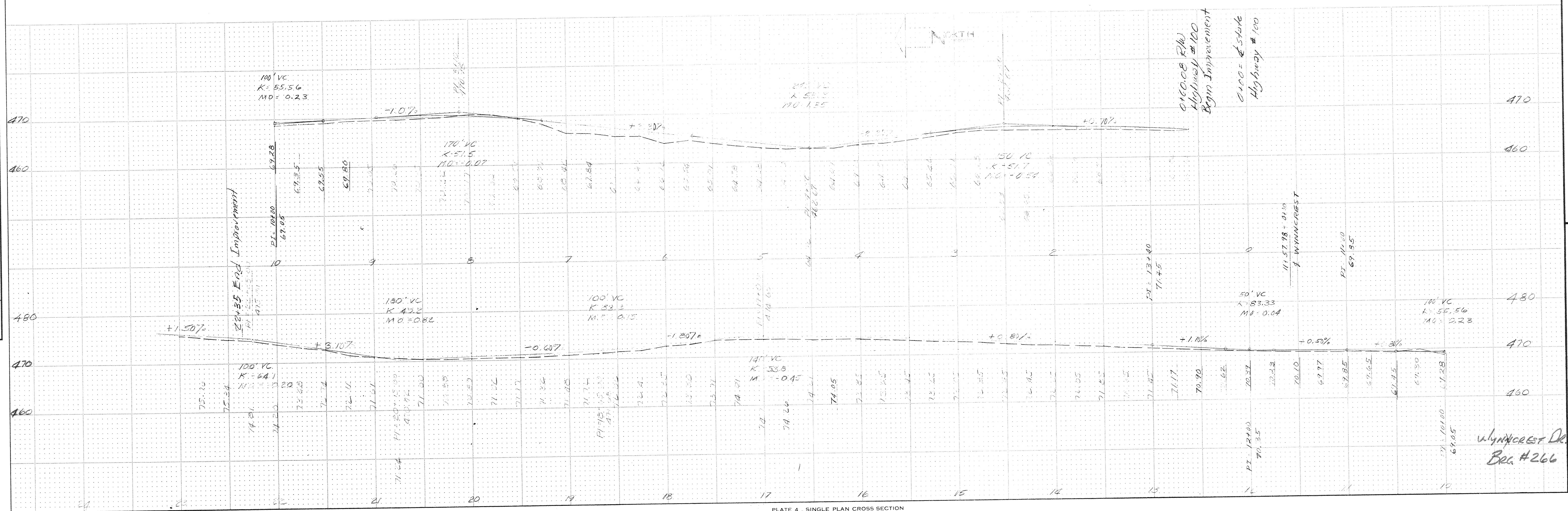


PLATE 4 SINGLE PLAN CROSS SECTION

[illegible]



FINAL SURVEY	DATE	BY
SURVEYED		
NOTED		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
NOTED		
TEMPLATE		
AREAS		
CHECKED		

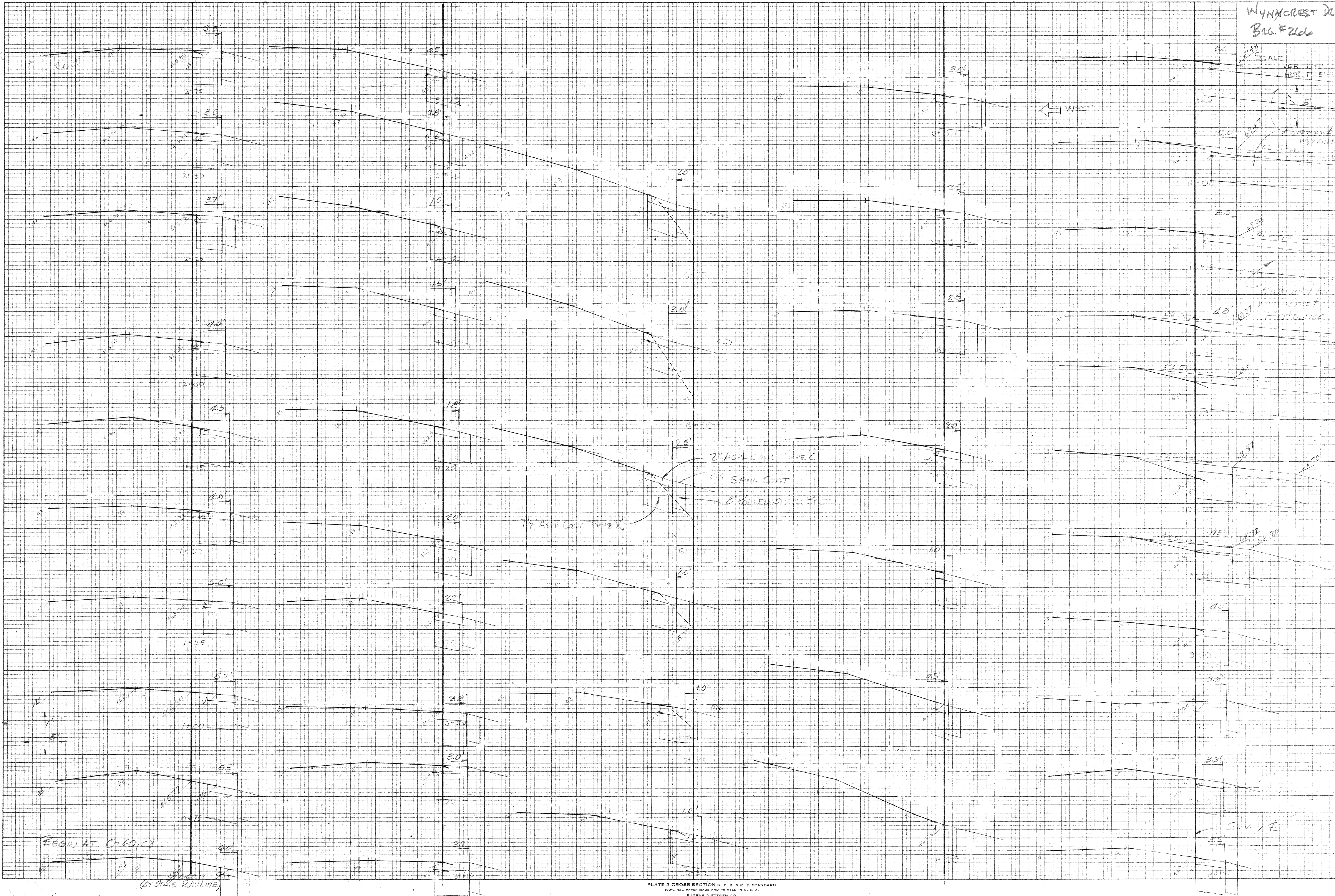
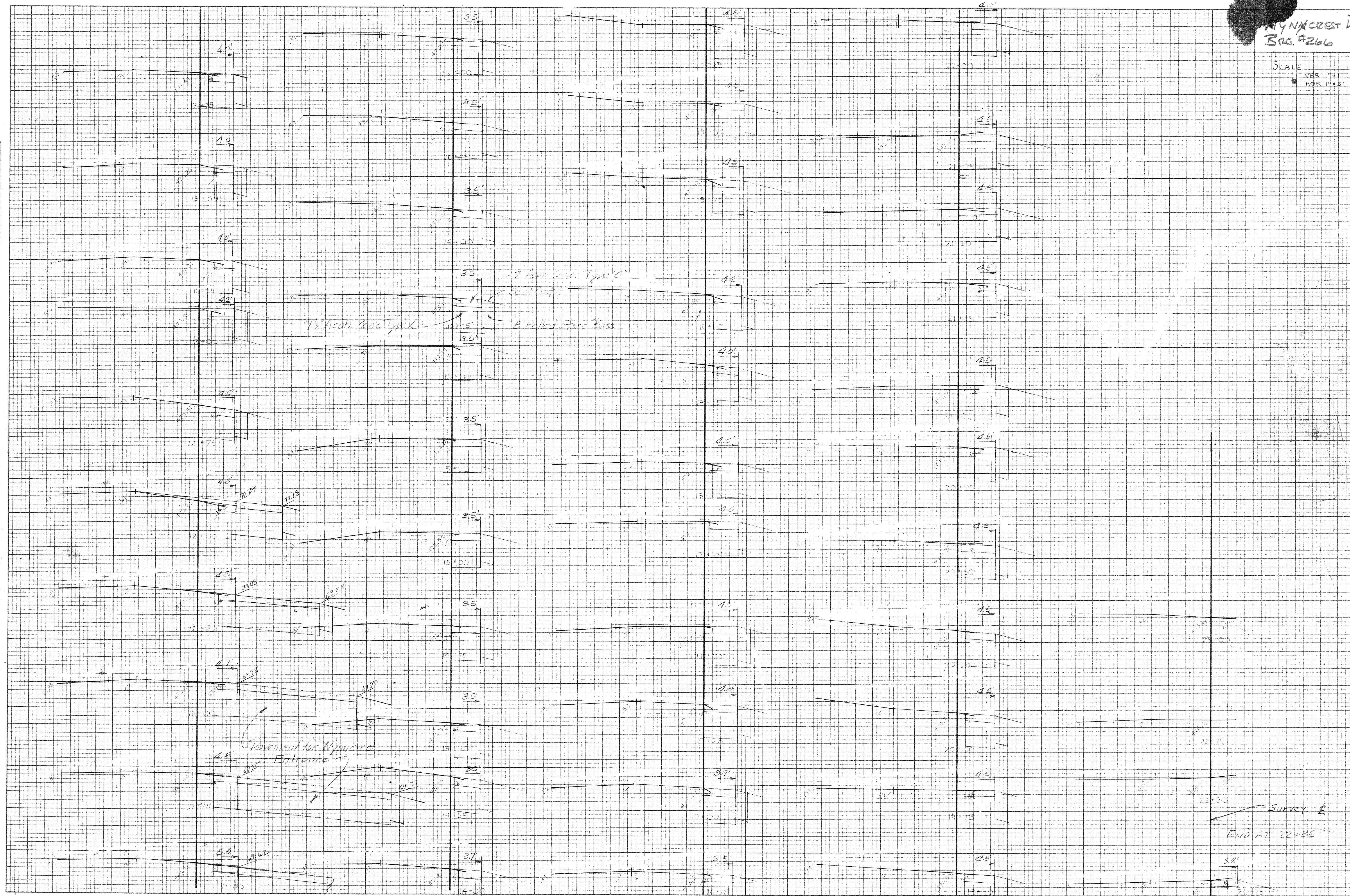


PLATE 3 CROSS SECTION O. P. R. & E. STANDARD  
100% RAG PAPER, MADE AND PRINTED IN U. S. A.  
EUGENE DIETZGEN CO.

<b>REITZ &amp; JENS, INC.</b> CONSULTING ENGINEERS ST. LOUIS, MISSOURI		DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ ISSUE DATE: 8/27/75
REGENCY PARK DEVELOPER - FLEISCHER-SEGER CROSS SECTION - WEIDMANN RD.		SHEET NO. _____ TOTAL SHEETS _____




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

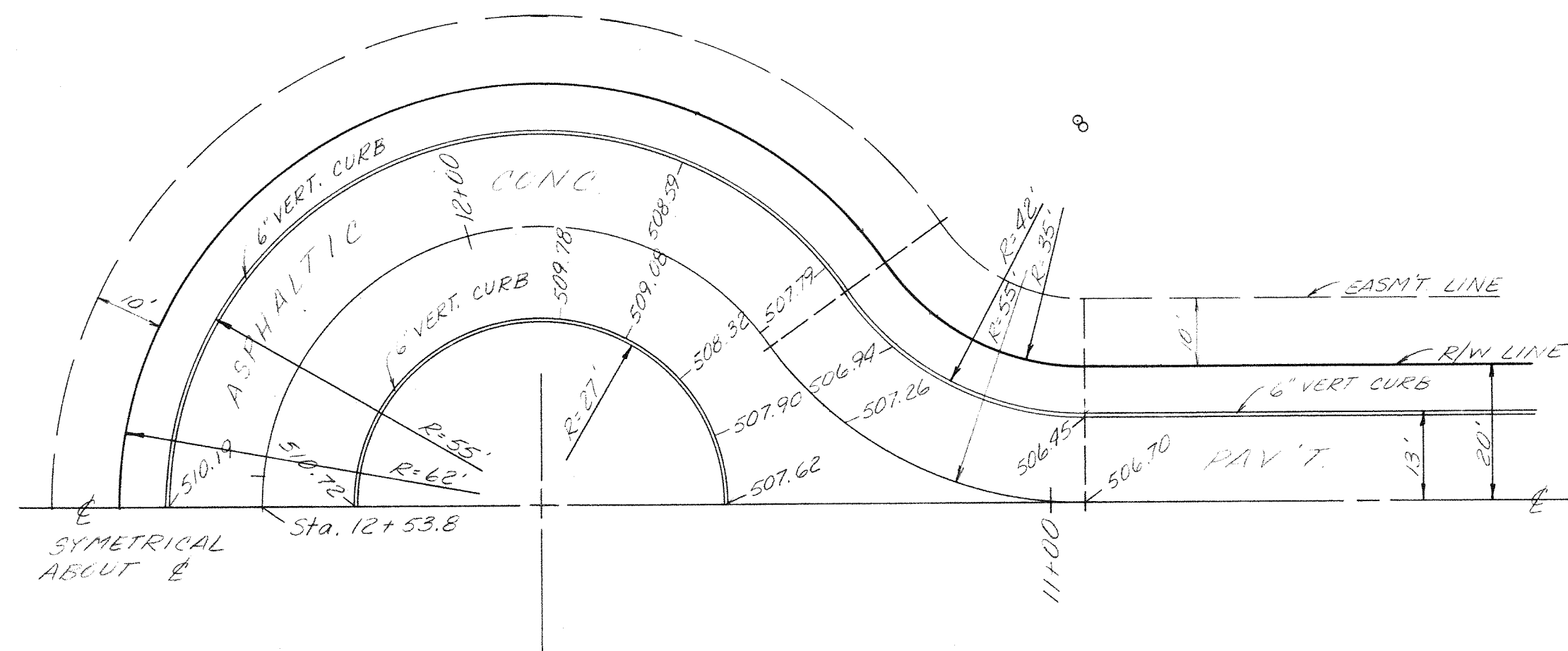


WYNNCREST DR  
BRG. #266

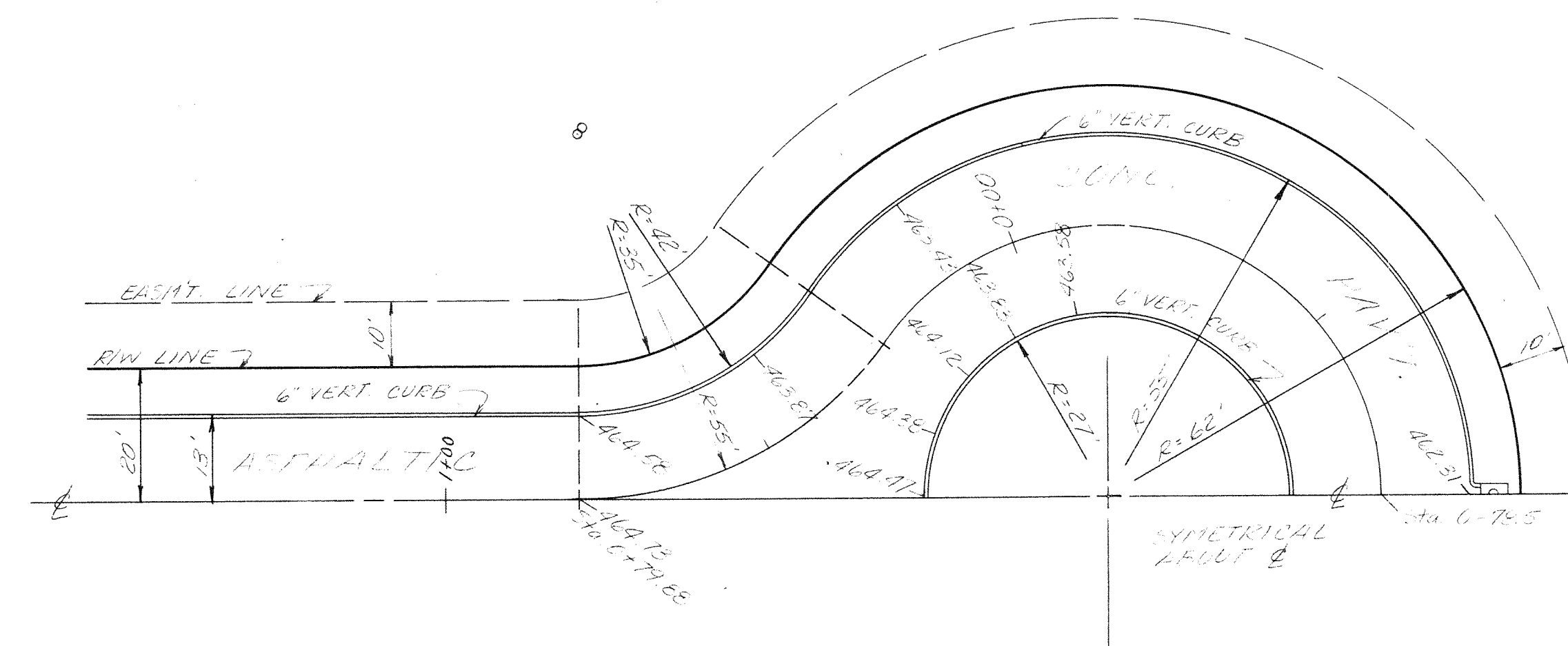
SCALE  
VER. 1"=31'  
HOR. 1"=5'

REV. NO.	DATE	DESCRIPTION
		
<b>REITZ &amp; JENS, INC.</b> CONSULTING ENGINEERS ST. LOUIS, MISSOURI		
DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ ISSUE DATE: 1/17/73		
REGENCY PARK DEVELOPER - FLEISCHER - SEEGER CROSS SECTION - WEIDMANN RD.		
<b>RP-6</b>		
SHEET NO.		

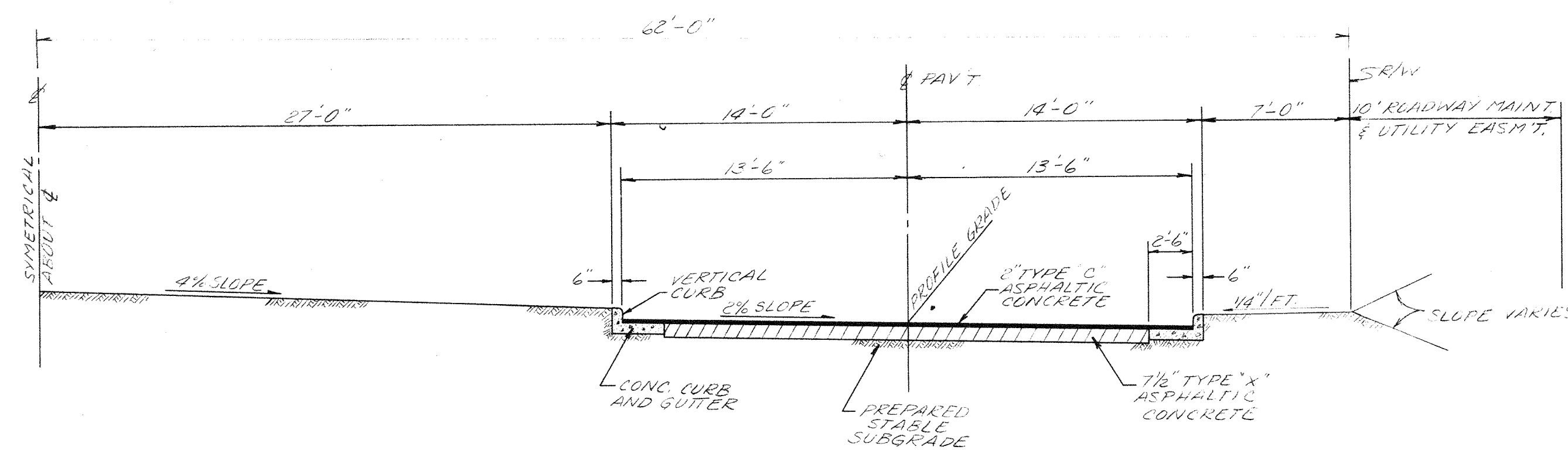




NORTH CUL DE SAC - SOVEREIGN COURT  
1" = 20'



SOUTH CUL DE SAC - SOVEREIGN COURT  
1" = 20'



CUL DE SAC - TYPICAL SECTION  
3/16" = 1'-0"

WYNNECREST DR.  
BEG. # 266

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