

EXHIBIT "I"

SCOPE OF SERVICES

This scope of services is intended to be an accurate description of the items and tasks required for completion of the design of this project. However, each project is unique and may require effort in an individual task to complete the design. The following information will explain and define in general terms the major design items of importance relating to this project. All the elements of work that are necessary to satisfactorily complete the design of this project may or may not be listed. The lack of a specific listing of an element or item in the scope of services does not in itself constitute the basis for additional services, supplemental agreements, and/or adjustment in compensation.

A more detailed description of the process and requirements used by MoDOT for completion of the design may be found in the EPG. The consultant is encouraged to review the appropriate sections of the manual to supplement the information contained in the scope of services and provide additional guidance in the requirements and expectations of MoDOT for completion of the design services.

Services rendered by the CONSULTANT, which are considered additional services, will be addressed under a supplemental agreement. The provisions of the Design Consultant Agreement outlining the responsibilities of the CONSULTANT regarding the quality and accuracy of the deliverables and products shall apply to any decisions regarding determinations of additional services.

Preparation of a supplemental agreement is necessary prior to performance of any work, which is considered as additional services, not included in the original scope of services. The consultant will not be compensated for additional services performed prior to execution of a supplemental agreement. Only additional services, which are required due to changed or unforeseen conditions or are due to a change in the specified deliverable, will be considered for inclusion in a supplemental agreement.

The CONSULTANT will provide the professional, technical, and other personnel resources, equipment, materials and all other things necessary to prepare the preliminary plans, right of way plans, and construction plans and data required for development of this specific project. The survey data shall be based on the Missouri State plane coordinate system and modified by a factor approved by the COMMISSION. All elevations and vertical control shall be based on NAVD 88.

The CONSULTANT shall prepare all plans through use of a Computer Aided Drafting (CAD) program. The CONSULTANT shall conform to the Missouri Department of Transportation

Specifications for Computer Deliverable Contract Plans as referenced in the EPG. Unless otherwise specified all plan sheets and CAD plots shall be electronically delivered to the COMMISSION as 22-inch by 34-inch sheets and shall conform to the Specifications for Computer Deliverable Contract Plans.

The CONSULTANT will be required to produce and update the construction cost estimate for this project at the completion of each major milestone or at a minimum of every six months. The major milestones for this project are defined as the preliminary design, right of way design (if necessary), and final design. The CONSULTANT shall review "as built" plans, aerial photographs, manuscripts, etc. and other information to be provided by the Commission and make the necessary field investigations to assure that there have been no significant changes since the information was recorded or obtained.

The CONSULTANT shall provide the professional, technical and other personnel resources, equipment, materials and all other things necessary to prepare the preliminary plans, Right of Way plans, and construction plans for the bridge improvements.

The consultant shall perform the following services, all in accordance with the standard practice of the Commission and the following:

AASHTO "A Policy on Geometric Design of Highways and Streets" (latest version)

AASHTO "Roadside Design Guide" (latest version)

AASHTO "LRFD Design methods" (latest version)

AASHTO "Highway Drainage Guidelines" (latest version)

"Manual on Uniform Traffic Control Devices" (latest version)

"Highway Capacity Manual" (latest version)

I Administration

CONSULTANT shall participate in the following as part of the Administration tasks:

1. Attend and document milestone project meetings with MoDOT (CORE Team meetings). Meetings can be held virtually.
2. Correspondence (emails, letters, meeting minutes, phone calls)
3. Set up the project and conduct Kick-Off Meeting.

4. Coordination with subconsultants.
5. Participate in one Public Meeting. Develop handouts and exhibits for meeting.
6. Provide monthly progress reports and invoices and review subconsultants invoices and reports.
7. Provide exhibits, sketches, and back-up data to MoDOT on an as-needed basis.
8. Provide information to support the SE District MoDOT staff in maintaining a public website for the project staff to inform the public and update impacts related to the project including timelines, changes to the project, meetings, comments. The website to be maintained through the construction phase.

II Surveys

CONSULTANT shall obtain topographic survey information required for the preparation of preliminary, right of way, and final roadway plans including:

1. Perform a thorough review of any existing surveys.
2. Coordinate available survey control and benchmarks with surveyors.
 - a. Translate control and benchmarks into sheet drawings to be used in construction plans, per EPG.
3. Complete remaining topographic surveys to develop preliminary plans, bridge survey, right-of-way plans and final roadway plans, including all improvements and existing topography within the limits of the project. Topographic surveys shall consist of all pertinent topographic features including, but not limited to:
 - a. existing drainage and sanitary structures (pipes, types, flowlines, sizes)
 - b. trees over 4 inches in diameter
 - c. additional existing retaining wall shots and type of wall
 - d. building front elevations and pertinent building features
 - e. pertinent parking lot features
 - f. driveway joints, pavement types and profiles
 - g. existing signal equipment surveys
 - h. drainage swales
 - i. sign posts, size, identification and photo log
 - j. pavement marking type

- k. miscellaneous roadside identification and photo log
 - l. lighting
 - m. other
4. Field locate visible above ground evidence of utilities located within the project area. "Missouri One Call" and MoDOT will be contacted and a formal request will be submitted for marking the locations of member utilities. In the event that "Missouri One Call" fails to respond, in whole or in part, to the formal request, underground facilities, structures, and utilities will be plotted from surveys and/or available records. The locations of all utilities are to be considered approximate. There may be other utilities, whose existence may not be known at the time of the survey.
 5. Coordinate with District Utility Engineer on underground utility one-call locates and have utilities located in identified areas of proposed project.
 6. Complete utilities survey and verify completeness and accuracy of utility topographical survey.
 7. As-needed punch list surveys due to design updates and/or new development.

CONSULTANT shall perform right-of-way surveys necessary for the preparation of preliminary, right of way and final roadway plans including:

1. Identify at the earliest opportunity, the title reports to be ordered by the COMMISSION. This will be coordinated during the preliminary design phase of the project.
2. Locate existing right of way, property lines and pertinent section lines for the entire project limits.
3. Clearly identify linework in drawing with text (i.e. property lines (PL), section lines, quarter-quarter section lines, existing right-of-way, existing easements, etc.
4. Research impacted parcels. Each of these properties within the project limits shall include property owner name, assessor's map number, last deed book and page, and existing size of parcel in square feet.
5. All property lines shall have a bearing (to the nearest second) and a length (to the nearest hundredth of a foot) shown and the parcel closed within acceptable tolerances governed by the State of Missouri.
6. Incorporate all easements and identified information from the title work into the existing right-of-way drawing.
7. Provide a reference tie drawing with three-point ties.
8. Establish land corner ties.

9. If necessary, the CONSULTANT shall provide a land survey plat that is compliant with the current standards for property boundary surveys to be recorded. The CONSULTANT shall also provide survey plats and legal descriptions as defined in Section 236.4.6 of MoDOT's Engineering Policy Guide.

III Utility Coordination

The CONSULTANT shall perform the following utility coordination tasks:

1. Obtain maps from utilities of their known locations and adjust survey limits as needed.
2. Coordinate submittal of preliminary plans to utility companies.
3. Coordinate with utility companies on the development of the plan of adjustment and obtain cost estimates for reimbursable utilities for the District Utility Engineer's approval.
4. Show the existing utility facilities and plan of adjustments for proposed utilities facilities in the contract plans. (plans sheets, cross sections, culvert sections)
5. Coordinate with utility owner the relocation of each impacted utility on the project during design and construction.
6. Prepare special utility sheets as necessary (including utility profile and exhibits).
7. Assist District Utility Engineer in the preparation of agreements (includes municipal agreements).
8. Identify locations for power service needs, prepare service request for submittal and coordinate with the power company to obtain estimated costs.
9. Coordinate with MoDOT (PM and District Utility Engineer) and to provide SUE test hole information at critical utility locations.
10. Prepare utility job special provision and information for the preparation of the Utility Status Letter for District Utility Engineer.
11. Provide assistance and answer utility related questions during the construction phase for MoDOT staff and the roadway contractor.

IV Concept Report

1. The CONSULTANT will collect traffic data, including pedestrians, for the study area.

2. Alternatives Development

- a. The CONSULTANT will develop alternatives for lane widths, shoulder widths, and turn lane lengths and locations.
 - i. Establish horizontal and vertical geometry of alternatives
 - ii. Establish typical section of alternatives
 - iii. Estimate area of any R/W needed of alternatives
 - iv. Identify potential design exceptions that may be required
 - v. Review drainage per Alternative
 - vi. Review potential utility impacts per Alternative
 - vii. Evaluate constructability of the alternatives

3. Traffic Safety and Operational Analyses

- a. The CONSULTANT shall perform the following tasks:
 - i. Conduct a safety analysis utilizing methods described within the latest edition of the Highway Safety Manual (HSM).
 - ii. Safety Analysis (Existing Condition)
 - iii. Safety Analysis (Selected proposed alternative)
 - iv. Conduct an operational analysis of existing condition and proposed two alternatives.
 - v. Prepare conceptual signing plan for the recommended alternative configuration.

4. Concept Report

- a. The CONSULTANT will prepare a written draft summarizing the findings of Geometric Concepts, Safety and Operational Analyses, and Cost Analysis.
- b. The CONSULTANT will develop a conceptual opinion of probable construction cost for each alternative using current year bid tabulations to formulate an order of magnitude cost for each alternative.
- c. The CONSULTANT will submit an electronic copy of the draft report to MoDOT for review of the proposed recommendations and will finalize the report based on MoDOT comments and/or concurrence.

V Public Involvement Support

The COMMISSION will be the main point of contact for receiving calls from the public. The CONSULTANT will interact with external agencies and the county commission as required to accomplish the scope of services of this contract.

1. The CONSULTANT shall be required to attend meetings with regulatory agencies, organizations, county officials, local municipalities, property owners and other entities as

required. A total of three (3) stakeholder meetings, with various entities, is anticipated for the public involvement on this project.

2. The CONSULTANT shall participate in a planning meeting with MoDOT prior to the public meeting. A total of one (1) public meeting is anticipated to be held during the preliminary design phase. If additional public meetings are required, the COMMISSION will request via a Supplemental Agreement.
3. The CONSULTANT shall provide the COMMISSION a database containing all property owners contiguous to the project area, or within a reasonable distance of the project. The database shall provide contact information available for public involvement and environmental purposes (e.g. mailing addresses, phone numbers, email addresses, etc.) The database shall also designate whether the individual is someone the Commission will need to obtain right of way and/or easements from.
4. The COMMISSION shall advertise for meetings, obtain the meeting location and room and perform mass mailings of notices of meetings or hearings, and newsletters.
5. The CONSULTANT shall prepare the exhibits as requested by COMMISSION for the public meeting or hearing. Assume 2 plan view mounted board exhibits.
6. The CONSULTANT shall produce copies of the handouts.
7. The COMMISSION shall provide the sign-in sheet/equipment and personnel for the sign-in table at each public meeting.
8. The CONSULTANT shall record and prepare the meeting minutes of the public meeting and shall prepare the transcript, if applicable.

VI Preliminary Roadway Design

The CONSULTANT'S attention is directed to Chapter 235 of the MoDOT Engineering Policy Guide (EPG) for general guidelines and requirements for preliminary design. Other chapters may be applicable for preliminary design preparation.

1. Upon approval of the design criteria memorandum by COMMISSION, the CONSULTANT shall undertake the following to develop the preliminary design phase:
 - a. Prepare preliminary plans, as outlined in the MoDOT EPG.
 - i. The COMMISSION shall furnish the CONSULTANT traffic information for the construction and design years to be used in the preliminary plans.
 - ii. The COMMISSION shall furnish the CONSULTANT the latest accident data and traffic information used to calculate the project accident rate. The COMMISSION shall furnish the CONSULTANT the "statewide accident rate for a similar class of roadway" and any high hazard locations within the project limits.
 - iii. The CONSULTANT shall submit the preliminary plans to the COMMISSION for review and approval as shown in Exhibit IV.

- b. The preliminary plans shall be prepared in accordance with the applicable sections of the MoDOT EPG, as to what shall be shown thereon, including proposed design features.
 - i. The plan view English scale shall be 1"=50' horizontal (or different scale as determined by MoDOT Project Manager for clarity) and extend 100 feet beyond project limits.
 - ii. The profile view English scale shall be 1"=50' horizontal, and 1"=10' vertical.
 - c. The CONSULTANT may have to review preliminary cross sections sufficiently to make a cost comparison between using retaining walls versus acquiring additional right of way for all proposed wall locations.
 - d. The CONSULTANT shall prepare the construction estimate. The COMMISSION shall prepare the right of way estimate based on the right of way requirements furnished by the CONSULTANT.
 - e. The preliminary plans shall be submitted to the COMMISSION for review and approval. A letter of transmittal shall be provided with the preliminary plan submittal. The COMMISSION shall furnish the template for the letter of transmittal. The construction cost estimate shall also be submitted with the preliminary plans.
 - f. The preliminary plans shall include the tentative additional easement and right of way limits, property lines and ownerships, section lines, township and ranges, any U.S. Surveys, city limits, and a general outline of the construction staging, critical design items and other items as outlined in the EPG.
 - g. Traffic assignments shall be shown on the respective roadways or on a line sketch of the roadways.
 - h. Typical sections shall indicate heavy, medium or light duty pavement for new roadways, along with descriptions of the existing roadway types remaining in place.
1. A Preliminary Field Check will be arranged by the CONSULTANT with the COMMISSION to discuss design features in the project area.
 2. The CONSULTANT shall provide the COMMISSION with information for proper environmental and cultural clearance including submittal of the preliminary stage RES, right of way stage RES (if needed) and final stage RES. Items that may need to be addressed include historical buildings, archaeological sites, historic bridges, conversion of farmland, endangered species, wetlands, parklands and historical sites.
 3. The CONSULTANT shall set horizontal and vertical control for the project and provide the COMMISSION the combined adjustment factor. All control furnished by the CONSULTANT shall use current datums and adjustments.

4. The CONSULTANT shall provide all land boundary work and legal descriptions to the COMMISSION for review and approval prior to right of way plans submittal.
5. The COMMISSION shall provide the pavement design and general Job Special Provisions related to the project including any special design elements.
6. The COMMISSION may hold a public meeting for this project either in person or virtually and the CONSULTANT will be required to attend and coordinate meeting. The CONSULTANT shall provide exhibits for MoDOT public meeting as requested and will refer to the sections of the EPG concerning public involvement.

VII Right of Way Design

1. The CONSULTANT shall prepare right of way plans, which may be separate drawings from those used for design and construction details. The right of way plans shall show alignment, geometric design, removal of improvements, drainage facilities, property lines and ownership, sub-division lot lines, other land survey information, street lines and existing right of way and easements. The CONSULTANT should also include any plan details, which will require additional right of way or permanent, temporary or utility easements during the construction phase of the project such as bypasses, temporary erosion control, etc. Right of way plans include title sheet, typical sections, profile sheets, and cross sections of the roadway, entrances and side roads. Areas of new right of way, permanent easements and/or temporary easements required from each individual property owner may be shown in tabular form on the respective sheets.
 - a. The CONSULTANT shall finalize any previous review of the roadway cross sections sufficiently to determine the feasibility of constructing retaining walls versus obtaining additional right of way. This final review shall consist of construction estimates versus right of way estimates.
 - b. Upon completion of the estimates by COMMISSION and CONSULTANT, the CONSULTANT shall recommend to the COMMISSION a choice at the various locations which warrant consideration of the alternate retaining wall versus right of way solutions. The COMMISSION shall make the final determination of purchasing right of way, or constructing retaining walls.
2. Right of way plans shall be submitted to the COMMISSION for review and approval. The right of way plans shall be at the same scale as the construction plans. The right of way plans shall include any design details that will control the width of right of way and necessary easements.
 - a. New right of way lines and all easements shall be dimensioned by station and offset distance from the centerline, or crossroad centerlines, if necessary. Bearings and distances on the right of way lines may be required.
 - b. The following minimum design features shall be included on the right of way plans:

- i. Title sheet with appropriate project limits, access note and traffic data completed.
 - ii. Typical Sections
 - iii. Cross sections at 100' intervals, including additional sections at each entrance with new and existing entrance grades.
 - iv. Construction limits (slope lines); drainage facilities; entrances and their reference location, width and type along with their existing and future grade percentage; property owners, with areas of new right of way, easements and remaining property; centerline bearing, ties to legal land corners from centerline stations with notation for corner witness by a registered land surveyor; existing utility locations and easements, including replacement utility easements; horizontal curvature information; and proper right of way symbolization for new right of way (access control) and easements, including areas which may be required to accommodate temporary erosion control.
 - v. Township, Range, Section and/or U.S. Survey information broken down to ¼ ¼ section line level on each plan sheet near the title block or appropriate survey/section line.
3. The CONSULTANT shall provide an updated construction estimate for the Right of Way design stage.
4. The COMMISSION shall review, approve and certify the right of way plans as completed by the CONSULTANT. The CONSULTANT shall provide one (1) electronic set of fully signed and sealed right of way plans, for the COMMISSION'S use.
5. The CONSULTANT shall provide title insurance information for all parcels with new right of way acquisition and the last deed of record for any parcel with easements.
6. The COMMISSION will prepare right of way appraisals and secure the necessary right of way by negotiation or condemnation, if necessary, for construction of this project.
7. The CONSULTANT shall be responsible for staking and re-staking tentative right of way on individual properties, as required by MoDOT staff, during right of way negotiation and acquisition phase of the project. The CONSULTANT shall also set permanent monuments as shown on the recordable land survey.
8. The CONSULTANT shall be responsible for making all revisions to the right of way and construction plans due to negotiations with the property owners in an effort to acquire right of way.
9. The CONSULTANT shall write, sign and seal deed descriptions for all right of way acquisitions on MoDOT's approved Exhibit A form and submit to COMMISSION.

10. The CONSULTANT will provide the COMMISSION with information for proper environmental and cultural clearance including submittal of the Right of Way stage RES. Items that may need to be addressed include historical buildings, archaeological sites, historic bridges, conversion of farmland, endangered species, wetlands, parklands and historical sites.

VIII Final Roadway Design

1. The COMMISSION will secure execution of municipal agreements with the cities and/or county agreements. A copy of the executed agreements will be furnished to the CONSULTANT for his information. The CONSULTANT shall conform to all design provisions of these agreements.
2. A final design field check shall be held with CONSULTANT and COMMISSION representatives prior to completing final design plan quantities. The CONSULTANT shall make any necessary revisions to the final plans as determined by this design field check.
3. The CONSULTANT shall prepare detailed temporary erosion control plans for review and approval before inclusion in the final design plans. The CONSULTANT will submit a Final Plans stage RES and help ensure previous RES items have been addressed.
4. The CONSULTANT shall prepare computations for all design plan quantities. All plan quantities shall be shown on the Quantity Sheets, by construction stage, if applicable. The format for these sheets shall be furnished by the COMMISSION. Specialty items may have separate sheets for quantity tabulations.
5. The CONSULTANT shall prepare for review and approval by the COMMISSION all General Job Special Provisions, which are to supersede the Missouri Standard Specification for Highway Construction. A brief reason for the deviation from the standard plans and specifications should also be provided. The CONSULTANT shall prepare only Job Special Provisions related to design elements shown in the plans.
6. The following list shall be considered the minimum requirements for a complete set of Final Design Plans.
 - a. Title Sheet
 - b. Typical Sections
 - c. Quantity Sheets
 - d. Plan Sheets at 1"=50' horizontal (or different scale as determined by MoDOT Project Manager for clarity). Plan sheets shall include all necessary adjustments to signing and proposed pavement marking.
 - e. Profile Sheets at 1"=50' horizontal and 1"=10' vertical
 - f. Culvert Sections at 1"=10', if needed

- g. Special Sheets for geometrics, referenced points, grading plan, traffic control plan, temporary erosion control plan and any other sheets for special design features.
 - h. Earthwork Quantities, Cross Sections at 25' intervals, 1"=10' (1:100), horizontal and vertical, including entrance sections with existing and proposed grades
 - i. Tabulation of Quantity Sheets
 - j. Job Special Provisions in electronic format readable in COMMISSION'S current word processor
 - k. File with the bid items and quantities as generated by COMMISSION'S Estimate Program
 - l. Construction Workday Study
 - m. Transportation Management Plan
 - n. Final Plans Checklist Form D-12
- 7. Additional plans and information may be required to complete the Final Design Plans. With the submittal of the Final Design the CONSULTANT shall also provide the COMMISSION a statement that an internal quality control check has been conducted and to the best of the CONSULTANT'S knowledge the final design plans are free of gross errors, misleading or confusing typos, and includes adequate information to construct the project.
- 8. The CONSULTANT shall prepare all plans through the use of a Computer Aided Drafting (CAD) program. The CONSULTANT shall conform to MoDOT's Specifications for Computer Deliverable Contract Plans as referenced in the MoDOT EPG.
- 9. The CONSULTANT shall furnish the COMMISSION the following completed sheets and documents, as applicable, for each separate construction project included in this contract, as follows:
 - a. Final Design Plans showing profile grades, geometric data, alignment data, etc.
 - b. One (1) electronic copy of the location sketch for Commission Approval submitted in electronic format.
 - c. Draft copy of the job special provisions related to design elements for review. After corrections, the job special provisions shall be furnished in electronic format utilizing the COMMISSION'S latest word processing program.
 - d. One (1) legible electronic copy of engineering calculations and analysis.
 - e. One (1) electronic copy of a complete summary of quantities and estimate of construction costs. The estimate shall be prepared using the latest version of MoDOT's ESTIMATE program.
 - f. One (1) electronic copy of Electronic Design Data.
 - g. One (1) electronic copy of a workday study showing the estimated number of workdays required to construct each project.
 - h. The CONSULTANT shall provide a 3D model of the project exported from Geopak Open Roads Designer software for the COMMISSION'S use.

IX Construction Support

1. The CONSULTANT shall be available to the COMMISSION to discuss and interpret plans and specifications during the bidding and construction phase of the project as determined necessary by the Engineer.
2. The CONSULTANT shall be available to provide Shop Drawing review of CONTRACTOR submittals pertaining to essential structural components and review any contractor's Value Engineering Proposals.
3. The CONSULTANT may be required to attend a pre-construction meeting, and a post construction meeting via TEAMS.
4. If issues arise during construction, there will be a direct line of communication established between the MoDOT Construction Office and the CONSULTANT. The CONSULTANT will immediately inform the MoDOT Design Division or MoDOT Bridge Division of any recommendations or clarifications made to the Construction Office.

SERVICES PROVIDED BY THE COMMISSION

The Commission will furnish to the Consultant without charge the following information:

- A. General design criteria.
- B. Available standard detail sheets in Microstation format.
- C. Traffic and accident data.
- D. Pavement Design Selection
- E. All necessary environment services identified through the Request for Environmental Services
- F. Right of way and easement acquisition.

The Consultant shall proceed with the final design and detail plans in accordance with the data approved or furnished by the Commission which will meet with the general standards adopted by AASHTO and approved by the Department of Transportation as provided by Title 23, United States Code, Section 109(b).

EXHIBIT IV

PERIOD OF SERVICE

The Consultant shall make submittals in accordance with the schedule described below:

Period of Service	
Letting	March 2027
PSE	12/1/2026
100% Review Plans	10/2/2026
Final RES	10/2/2026
ROW Plans/ROW RES	2/20/2026
Public Meeting Exhibits	1/9/2026
Preliminary Roadway Plans	12/5/2025
Preliminary RES	12/5/2025
Conceptual Report	10/17/2025

Construction support as needed post award – Anticipated for 24 months

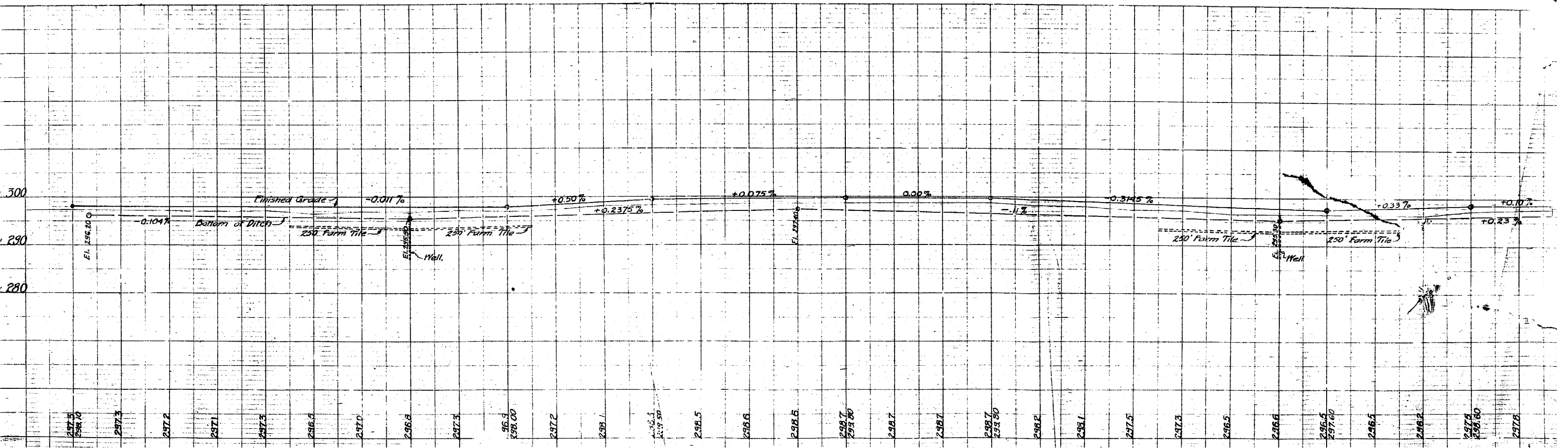
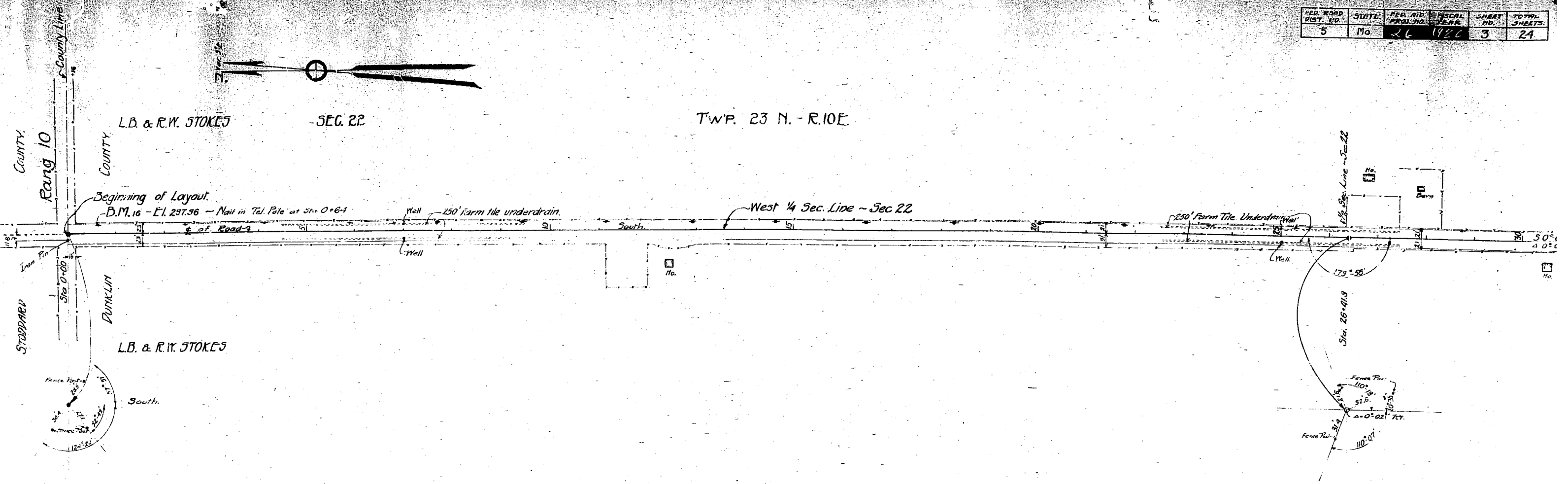
PERIOD OF SERVICE – The total period of service including construction services is expected to be completed by April 1, 2029.

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.	F-26	
DIST. NO.	COUNTY	ROUTE	SEC.
10	DUNKLIN	25	

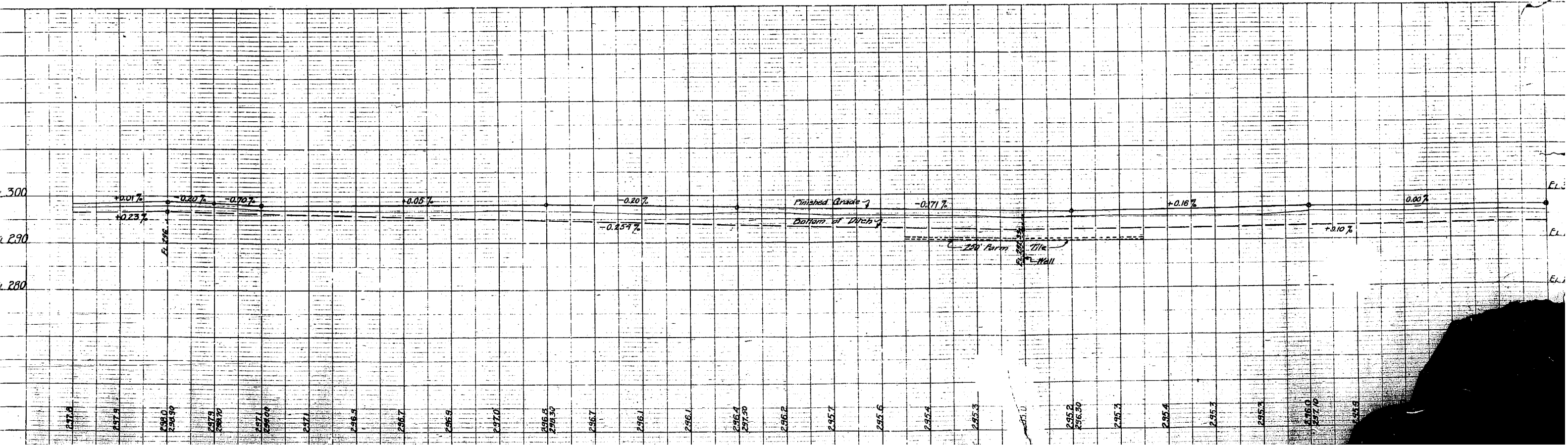
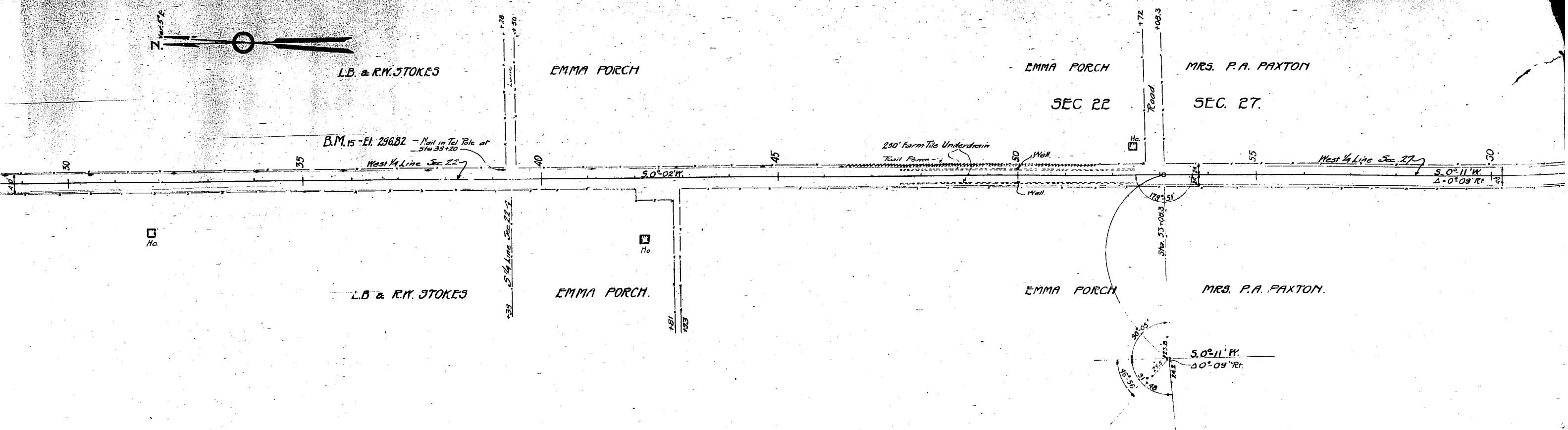
TITLE SHEET

PLAN AND SECTION
TYPICAL RAILROAD CROSSING

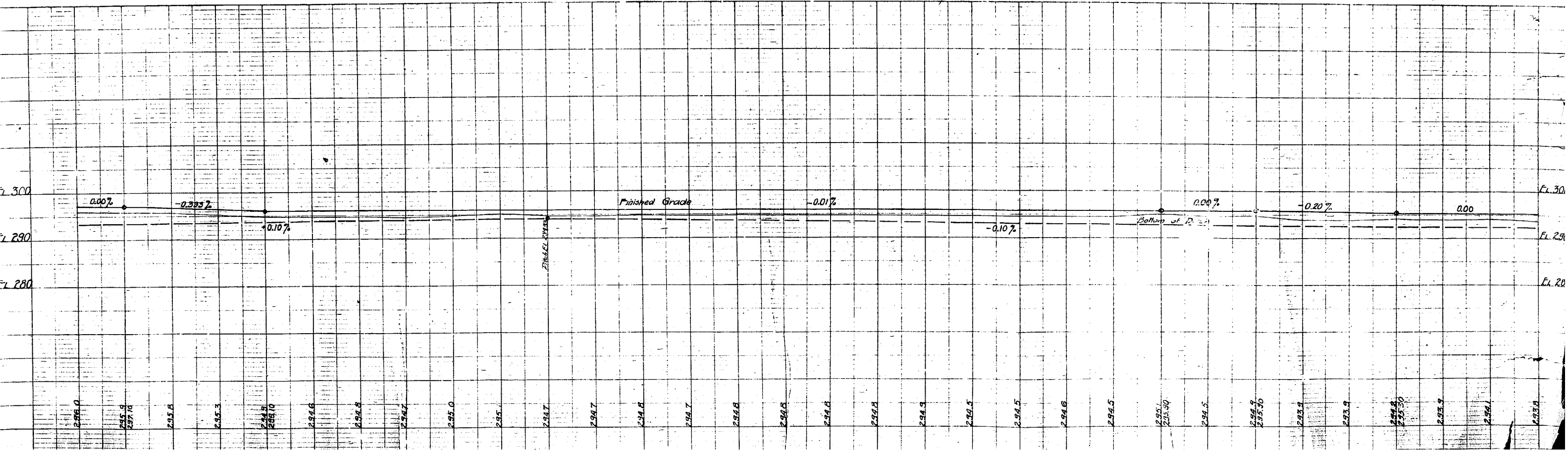
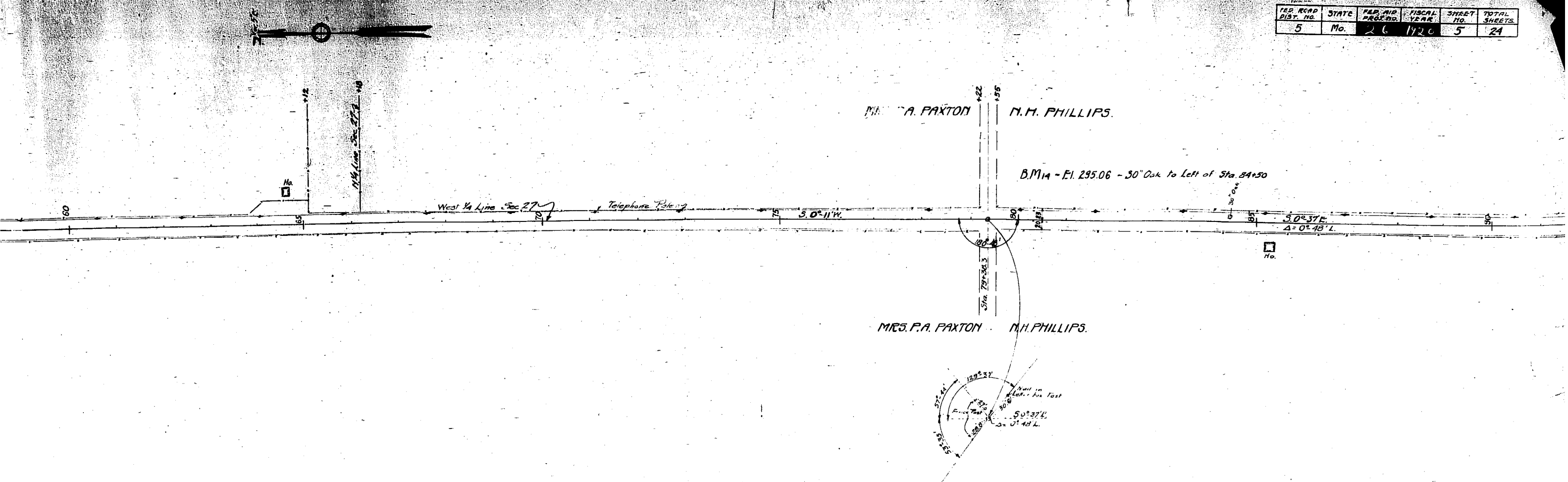
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5	Mo.	26	1926	3	24



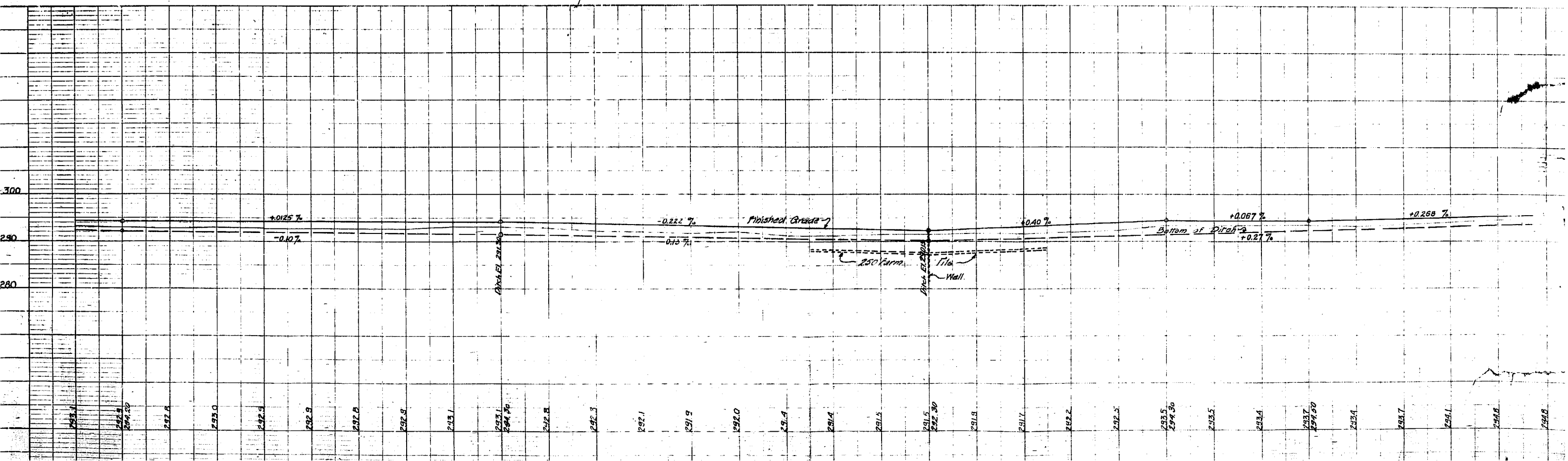
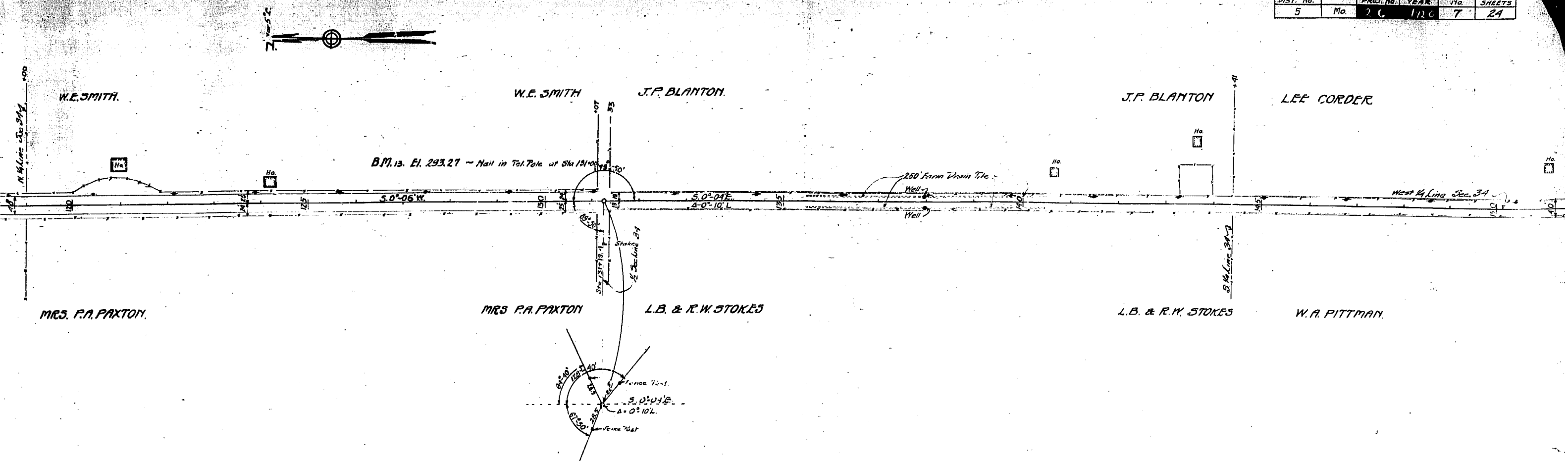
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5	Mo.	26	17	4	24



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5	Mo.	26	1926	5	24



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	Mo.	26	1926	7	24



PER. ROAD DIST. NO.	STATE	PER. MID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	Mo.	26	1121	8	24

TWP. 23

TWP. 22.

LEE CORDER

W.A. PITTMAN.

W.A. PITTMAN

R. MORRIS.

SEC. 34

SEC. 3

B.M. 12 - El. 295.40 - 30" Oak Left of Sta. 174+00

No.

250' from Tile Underdrain Well.

Well.

No.

No.

No.

No.

No.

W.A. PITTMAN

W.A. PITTMAN

L.B. & R.W. STOKES

R. MORRIS

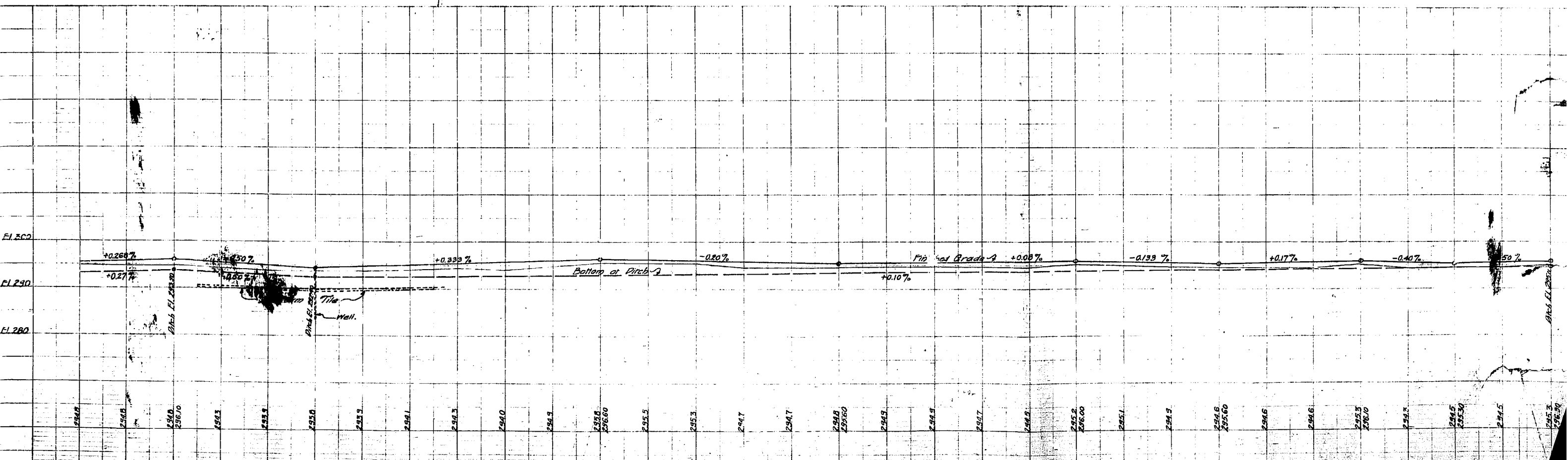
316.157+89.4
Towship Line

50°-01' W.
Δ = 0°-05' Rht.
Fence Post
Fence Post
Mail Box Post

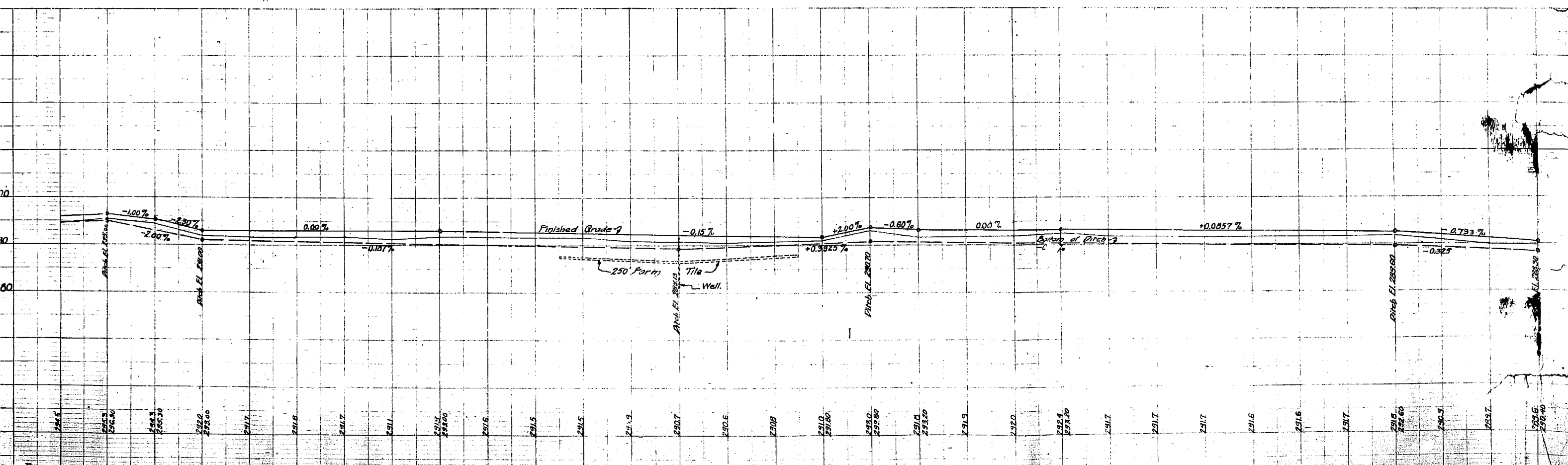
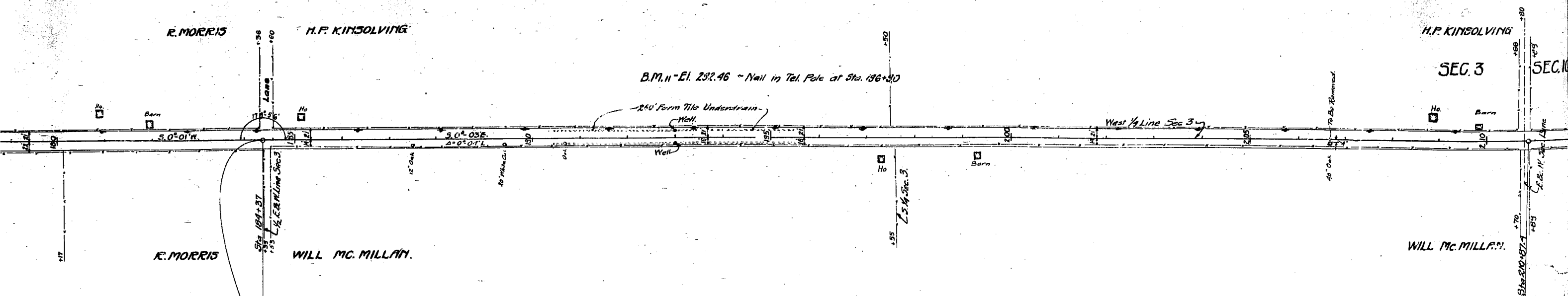
5 0°-01' W.
Δ = 0°-05' Rht.

West 1/4 Line Sec. 3

N 1/2 Line Sec. 34

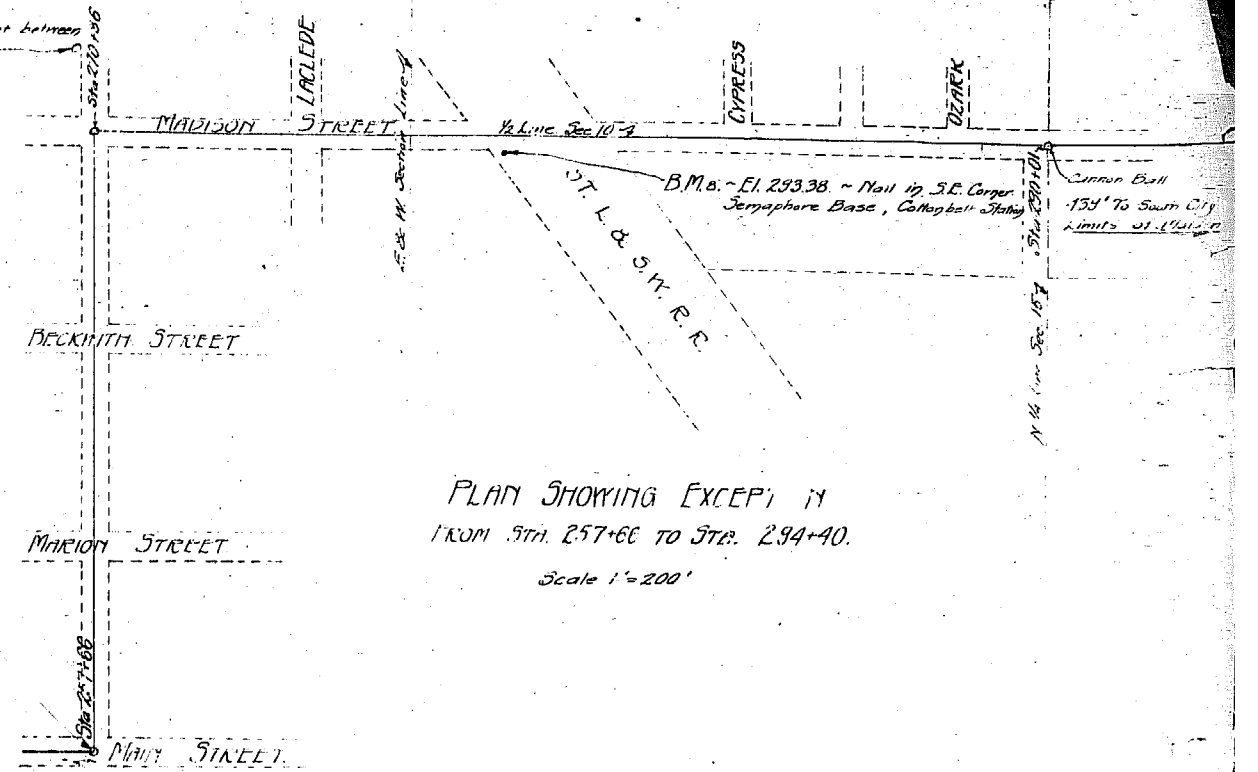
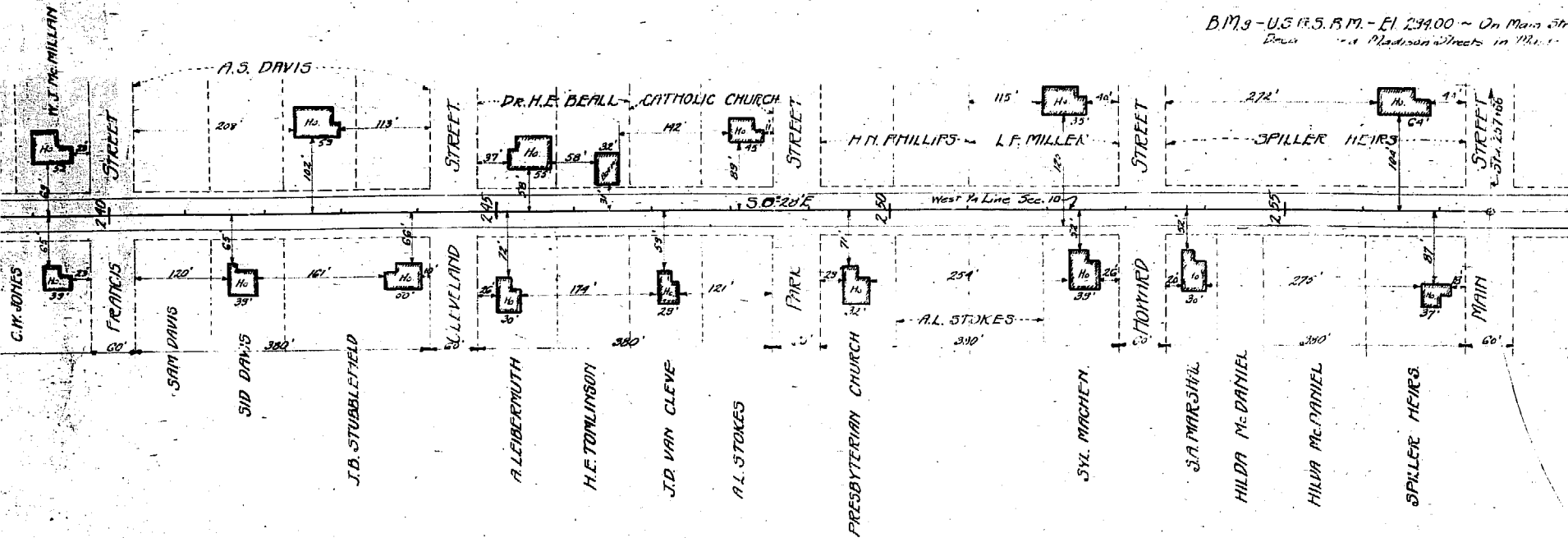


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	Mo.			9	24



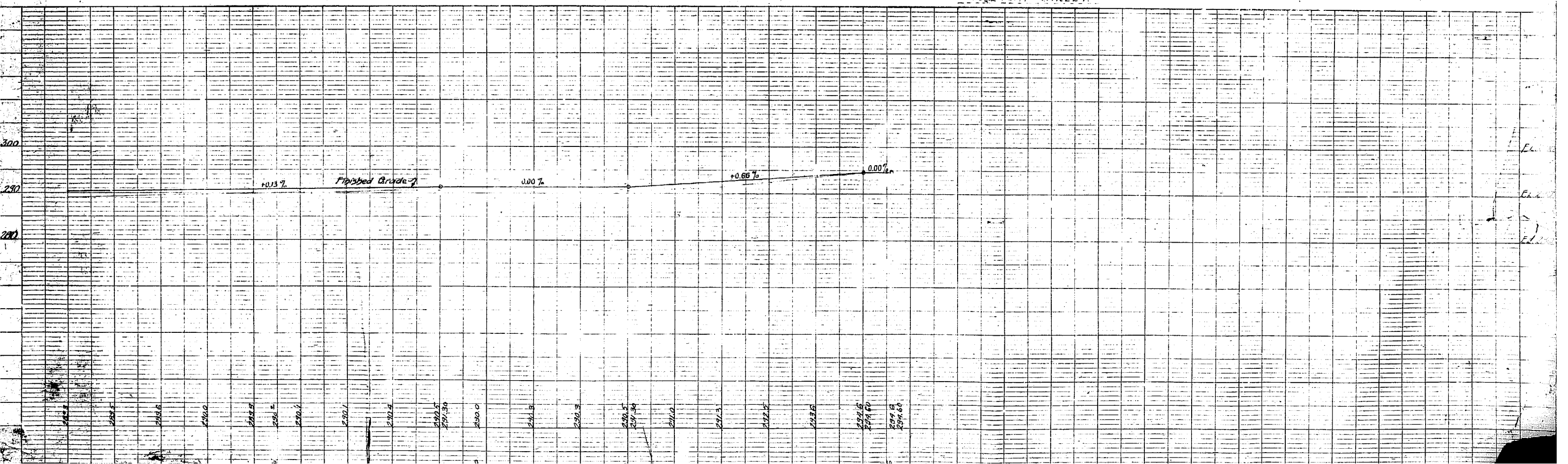


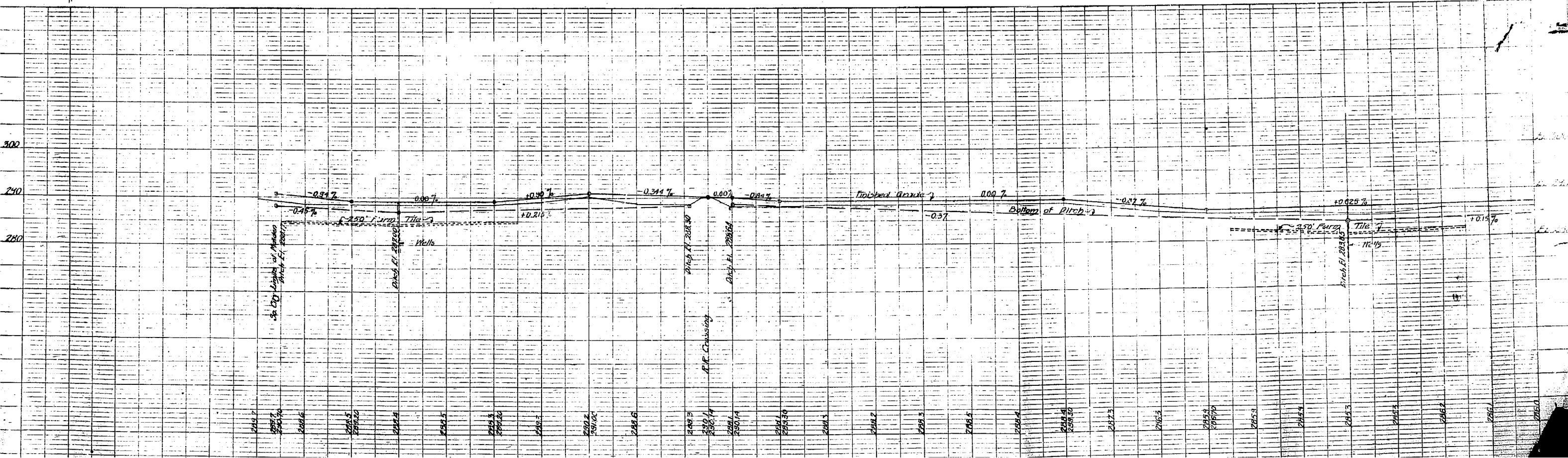
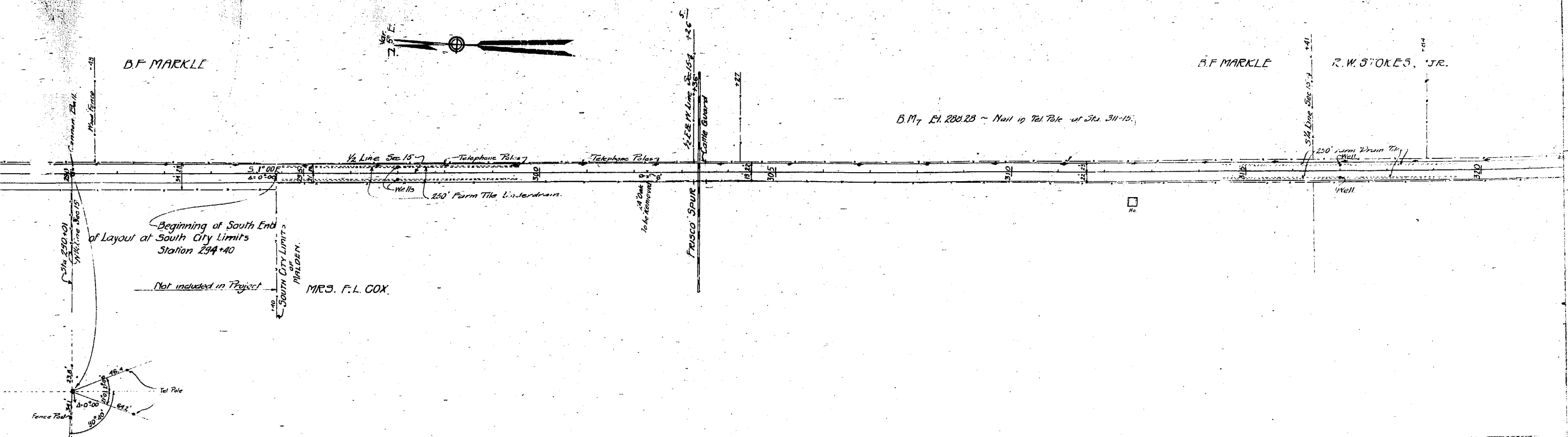
F.P. ROAD DIST. NO.	STATE	F.P. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	26	1920	11	24



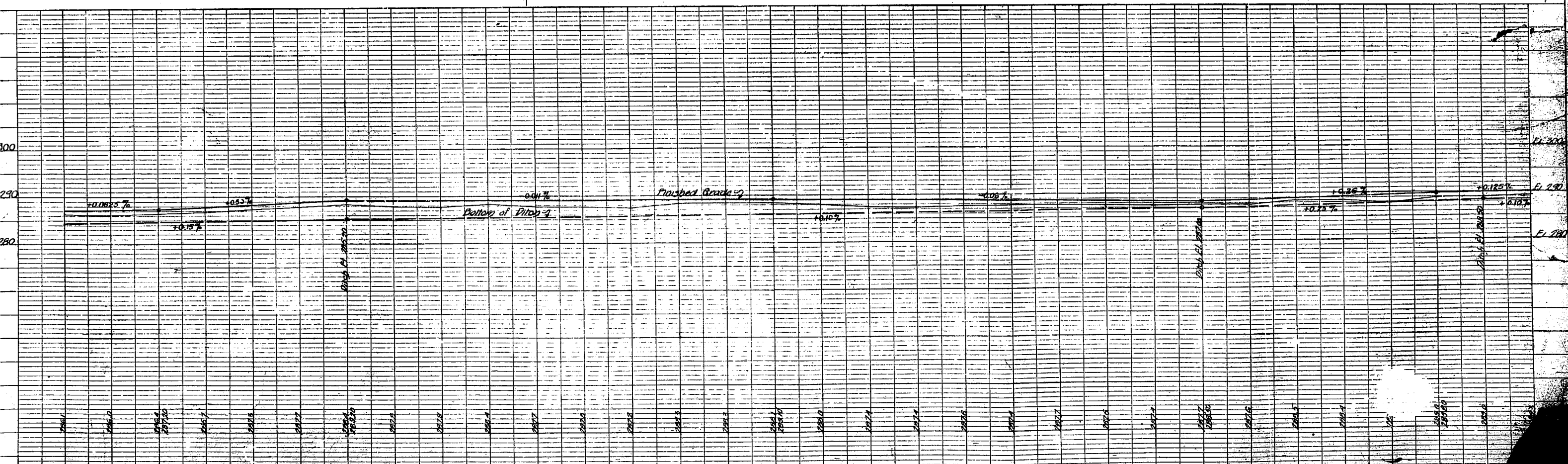
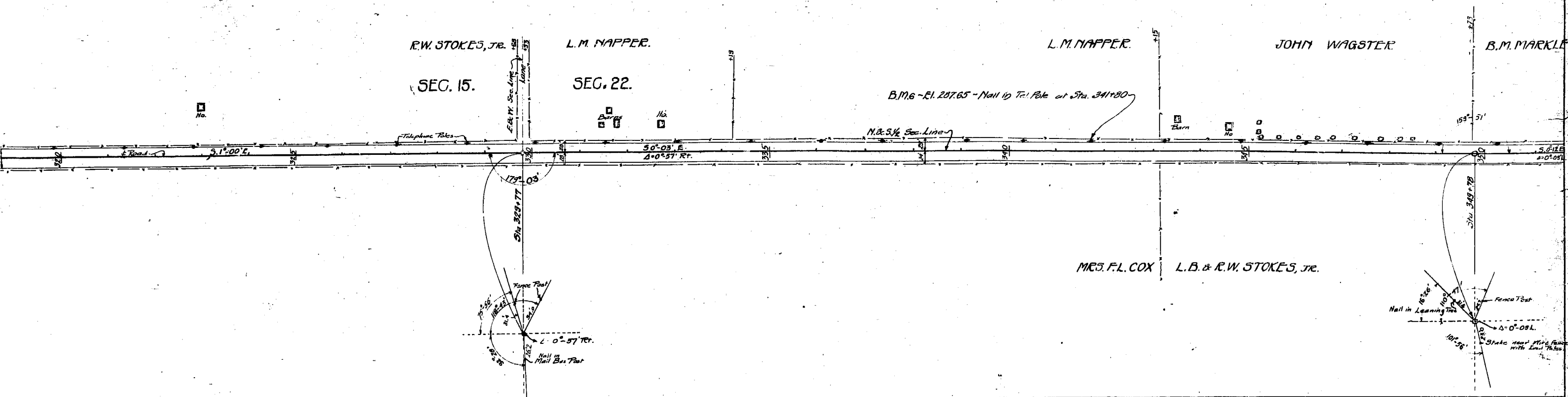
MALDEN.

PLAN SHOWING EXCEPT IN
FROM STA. 257+66 TO STA. 294+40.
Scale 1"=200'





FED. ROAD DIST. NO.	STATE	FED. AID PROG. NO.	DATE -R		
5	Mo.	26	1936	13	24



R.E. DUNSCOMB

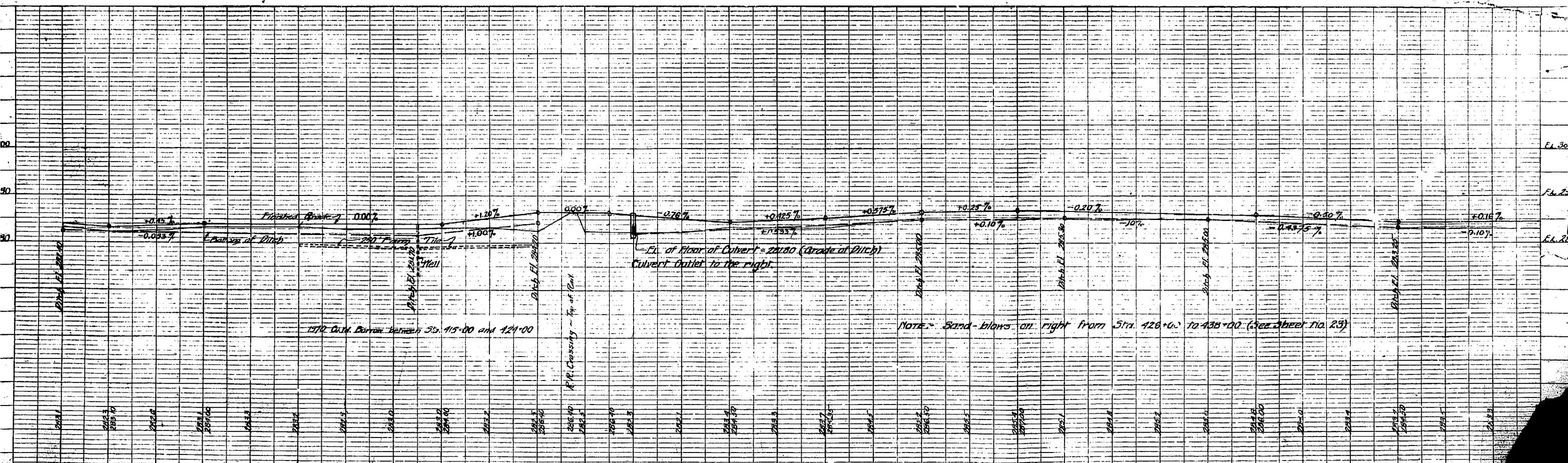
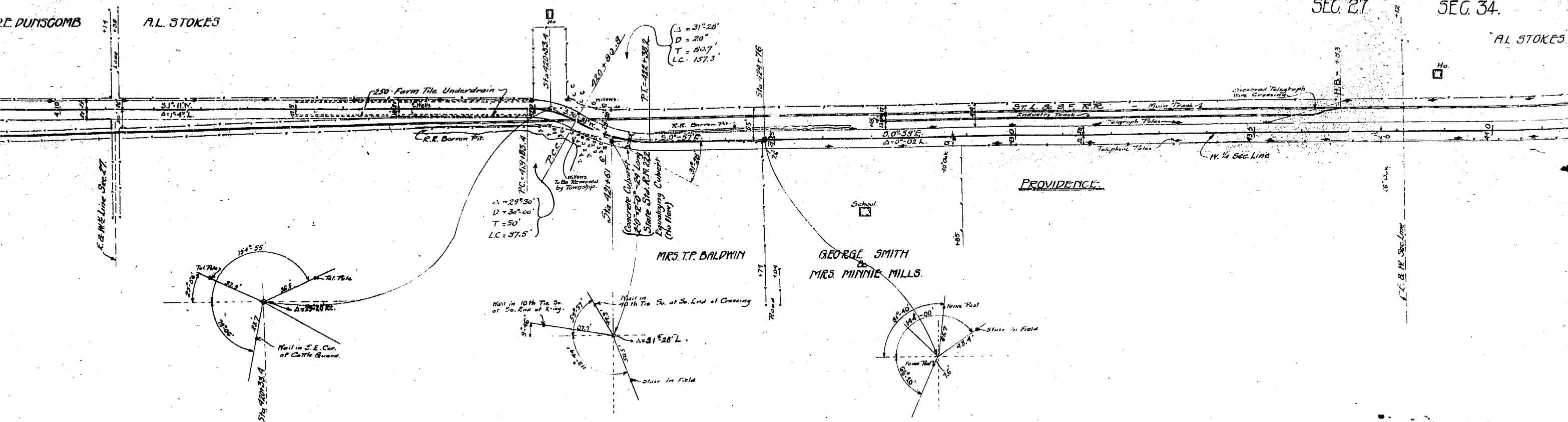
A.L. STOKES

FED. ROAD DIST. NO.	STATE	SP. NO.	FISCAL YEAR	SHEET NO.	SHEETS
5	Mo.	26	1920	16	24

SEC. 27

SEC. 34.

A.L. STOKES

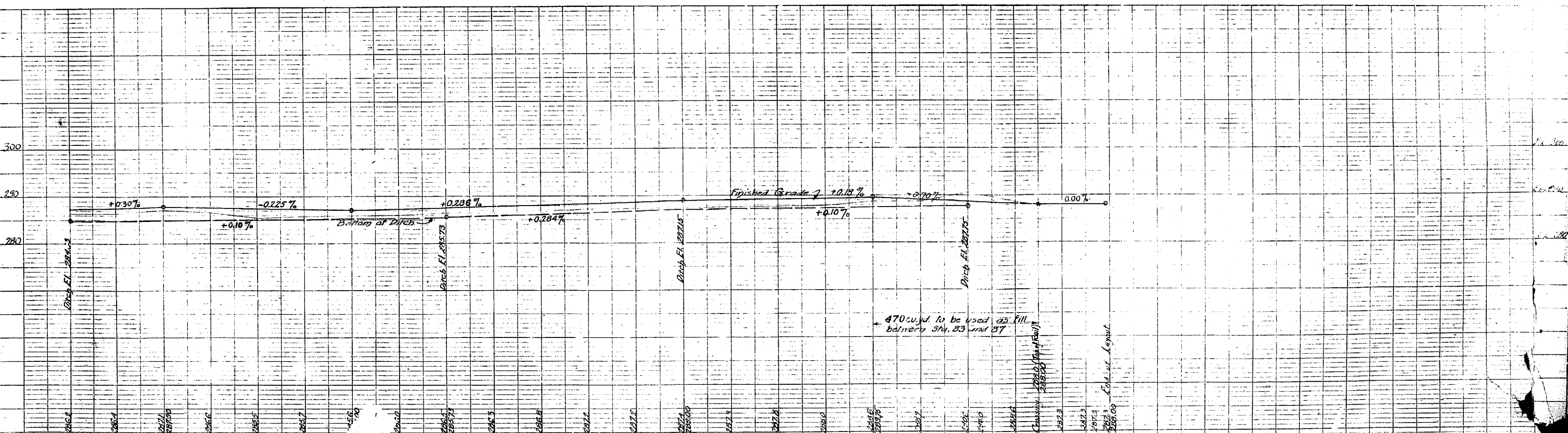
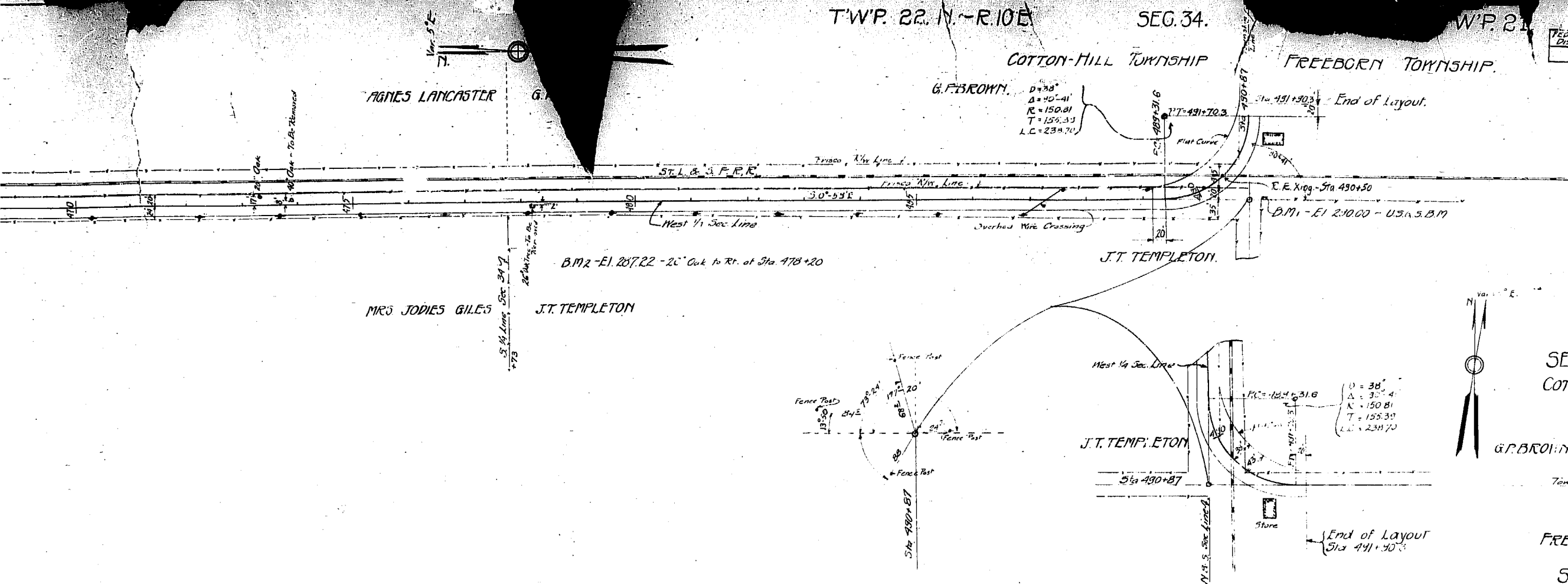


COTTON-HILL TOWNSHIP

FREEBORN TOWNSHIP.

FED. DIST. NO.	ITE	FED. AID PROJ. NO.	FISCAL YEARS
5	Mo.	26	1936 18

18



NO. ROAD	STA.
5	MO.
10	CO.
10	DUNK.

13

INDEX OF SHEETS

SHEET NO 1	TITLE PAGE
2	TYPICAL CROSS-SECTION OF IMPROVEMENT
3	PLAN AND PROFILE STA. 0+00 TO STA. 30+00
4	30+00 " 60+00
5	60+00 " 90+00
6	90+00 " 120+00
7	120+00 " 150+00
8	150+00 " 180+00
9	180+00 " 210+00
10	210+00 " 240+00
11	240+00 " 294+40
12	294+40 " 300+00
13	300+00 " 330+00
14	330+00 " 360+00
15	360+00 " 390+00
16	390+00 " 420+00
17	420+00 " 450+00
18	450+00 " 480+00
19	480+00 " 493+64.6
20 TO 62	CROSS SECTIONS
63	MASS DIAGRAM

MISSOURI STATE HIGHWAY COMMISSION PLAN AND PROFILE OF PROPOSED STATE ROAD DUNKLIN COUNTY

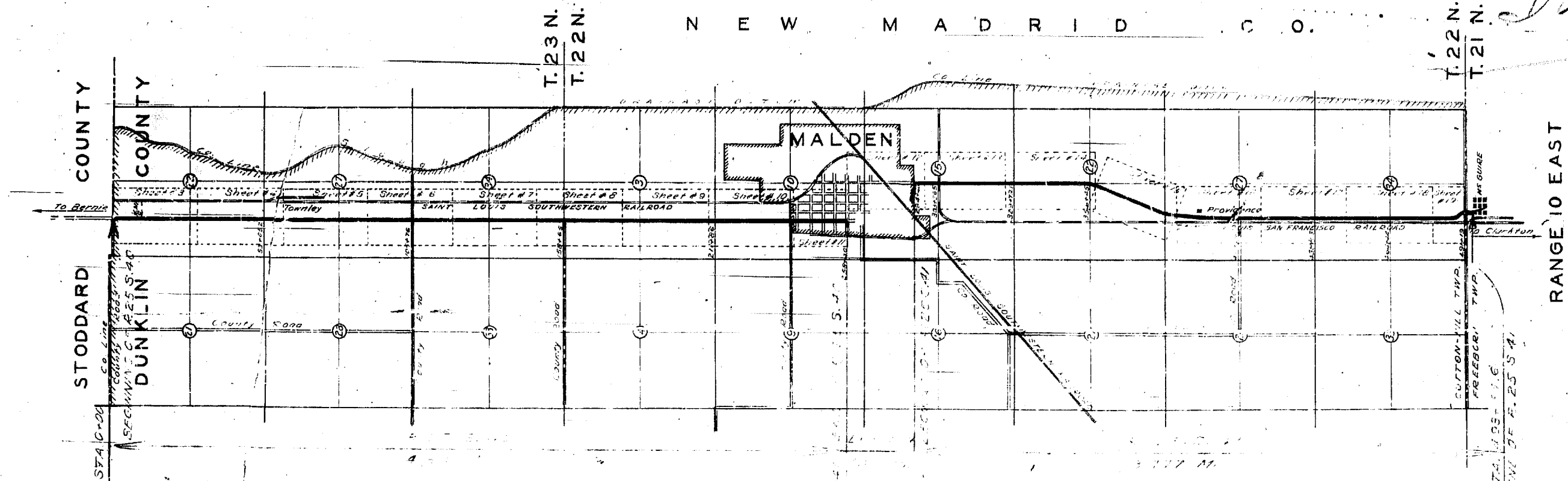
FEDERAL AID PROJECT

LIST OF CULVERTS USED

F. E. M-II

FINAL
PLANS
R25540
Dunklin Co.

PLAN 1 IN = 100 FT
PROFILE HOR. LIN. 100 FT VERT. LIN. = 10 FT
CROSS-SECTION 1 IN = 4 FT



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEL
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	GROUND ELEVATION
RIGHT OF WAY LINE	GRADE ELEVATION
TRAVELED WAY	SURFACE LINE
RAILROADS	GRADE LINE
RETAINING WALL	
BASE OR SURVEY LINE	

EXCEPTIONS
258+40 TO 294+40
3600 FT.

SCALE OF LAYOUT
1 IN = 2000 FT.

EQUATIONS
NONE

LENGTH OF PROJECT
APPARENT LENGTH 49384.6 FT. 9.35 MILES
GROSS LENGTH 45784.6 " 8.671 "
NET LENGTH 45784.6 " 8.671 "

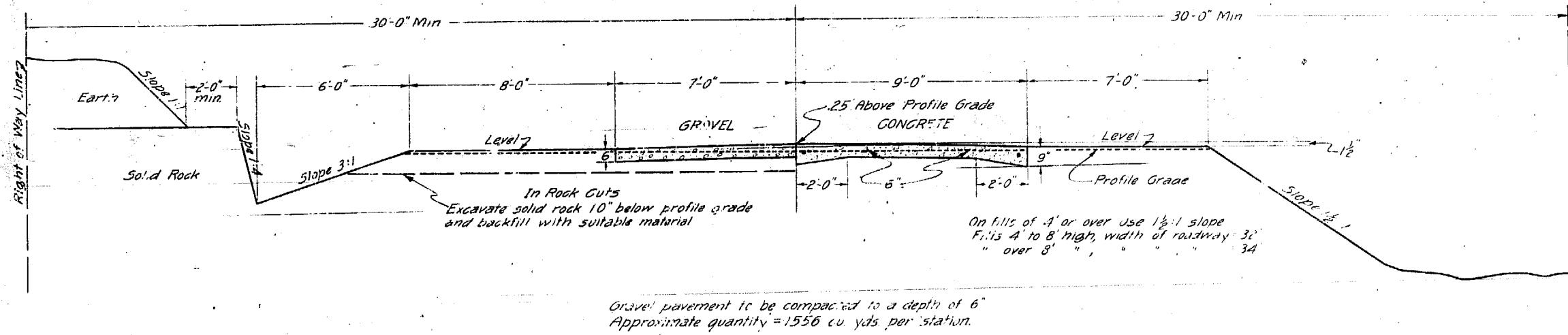
SUBMITTED

CHIEF ENGINEER NO. 5
RECOMMENDED

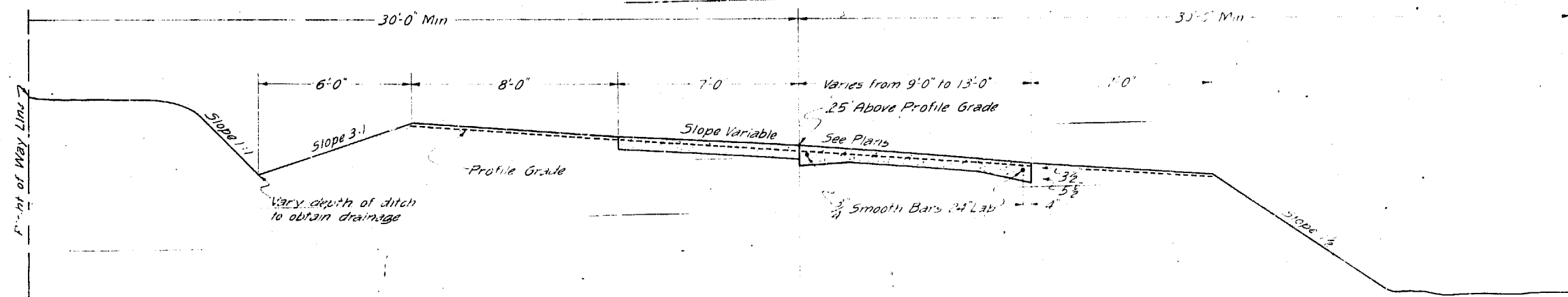
DISTRICT
RECOMMENDED

APPROVED

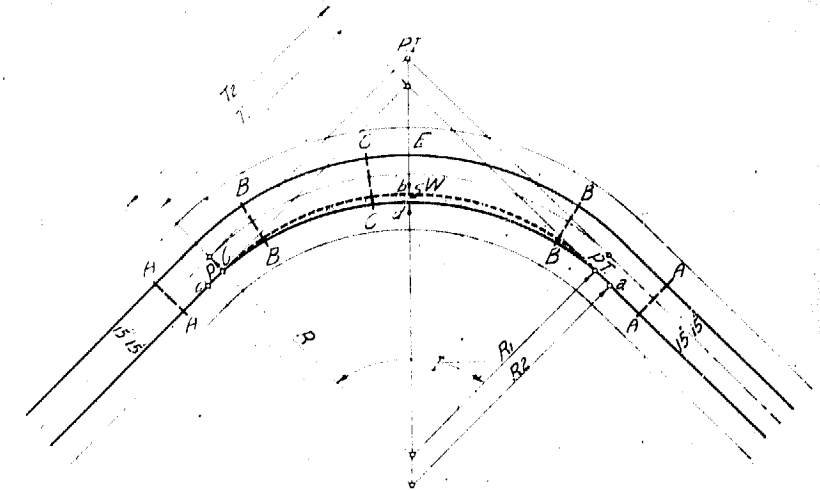
TYPICAL CROSS-SECTION ON TANGENTS



TYPICAL CROSS-SECTION ON CURVES



TYPICAL PLAN OF CURVES UNDER 500 FT. RAD.



$V = \text{Variable}$
 $R_1 = R - 15'$
 $T_1 = R_1 \tan \frac{I}{2}$
 $T_2 = R_2 \tan \frac{I}{2}$
 $\text{Area (abcc')} = \frac{\pi I}{360} (R_1^2 - R_2^2) + (R_1 + R_2)(T_2 - T_1)$
 Superelevation begins at section 'A-A' 25' from P.C. or P.T.
 and attains its full value at section 'B-B' 50' from 'A-A'

Description of Paving 9' CONCRETE & 7' GRAVELPrepared by H.R.P. & C.J.S.Date FEB. 2, 1927Name of road MALDEN-BERNIE

FINAL PLANS

EARTHWORK				12'X18' PRECAST CULVERTS (GR)				LENGTH OF SECTION		SUMMARY										
Station	Station	Excav	Borrow	Overhaul	Station	Length	# Conc	Rein St	Side	End of Project	369	Apparent Length	Exceptions	Equations	Net Length	Item	Description	Unit	Quant	
3+00	7+00	73.4	✓	1312.5	39+45	23	✓	777	34	L	258.40	0.00			258.40	7A	Earth	Excava	cu yd	31400
	14+00	22.5	✓	1407.5	52+00	26	✓	842	37	R		258.40				7B	Borrow		cu yd	43343.1
	21+00	53.9	✓	1254.2	53+00	26	✓	842	37	L						7C	Overhaul		sta. yd	2386.0
	27+00	20.4	✓	1351.9	79+40	26	✓	842	37	R						7D	Rolling Embankment		day	0
	35+00	120.5	✓	1057.4	79+40	26	✓	842	37	L						12A	Gravel Pav't		cu yd	4142.0
	42+00	104.9	✓	1074.6	105+76	30	✓	972	43	R						20	Portland Cement Conc. Pavement		sq yd	25840.0
	49+00	133.4	✓	1064.9	105+76	26	✓	842	37	L						24A	Barricades		each	2
	57+00	114.1	✓	1409.4	211+70	22	✓	712	31	R						24C	Relocating Barricades			2
	63+00	118.5	✓	801.8	241+00	22	✓	712	31	L						51	12'X18' Precast Sec. Conc. Culverts (2R) lin. ft.			454
	70+00	100.1	✓	1100.1	241+00	30	✓	972	43	L						51	12'X18' " " " (FE)			154
	77+00	64.9	✓	1122.2	245+50	30	✓	972	43	R						51	12'X18' " " " (M-11)			34
	84+00	65.1	✓	1235.3	245+50	30	✓	972	43	L						59B	7' Conc. Bases for		cu yd	20.8
	91+00	27.1	✓	1024.2	249+80	22	✓	712	31	R						60	Reinf. for		Lb	913
	98+00	57.1	✓	1107.3	249+80	30	✓	972	43	L							Maintenance Gravel		cy	368
	104+00	57	✓	1394.4	254+10	24	✓	777	34	R										
	112+00	56	✓	1406.0	254+10	30	✓	972	43	L										
	119+20	57.2	✓	1431.4	TOTALS	454		14705	547											
	126+00	98	✓	1172.9																
	133+00	11.3	✓	1174.0	12'X18' PRECAST CULVERTS (GR)															
	140+00	37	✓	1937.1	Station	Length <th># Conc</th> <th>Rein St</th> <th>Remarks</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	# Conc	Rein St	Remarks											
	147+00	25.9	✓	1683.0	132+17	22	✓	712	31	L										
	154+00	75.1	✓	1542.6	132+17	22	✓	712	31	R										
	161+00	27.9	✓	2018.6	144+25	22	✓	712	31	L										
	167+00	83.5	✓	844.3	158+55	22	✓	712	31	L										
	175+00	153.7	✓	1175.9	158+55	22	✓	712	31	R										
	182+00	66.8	✓	1495.3	158+55	22	✓	712	31	L										
	189+00	70.4	✓	1379.8	163+50	22	✓	712	31	R										
	196+00	50.1	✓	1718.6	165+50	22	✓	712	31	L										
	203+00	135.2	✓	1285.2	TOTAL	154		4964	217											
	210+00	170.3	✓	1292.6	2'X18' PRECAST CULVERTS (M-11)															
	217+00	92.7	✓	1272.1	Sta	Length	# Conc	Rein St												
	224+00	140.8	✓	1020.4	239+00	34	✓	1101	48											
	231+00	68.6	✓	1163.0	TOTAL	34		1101	48											
	238+00	151.9	✓	600.1																
	244+50	142.9	✓	14.9																
	252+00	171.3	✓																	
	256+85	193.2	✓																	
	258+40	170.3	✓																	
	TOTAL	31400	43343.1	2386																

LENGTH OF SECTION

End of Project 238+40
Beg 0+00
Apparent Length 25840'
Exceptions
Equations 00
Net Length 25840'

9' CONCRETE PAV'T

25840.00 25840.00

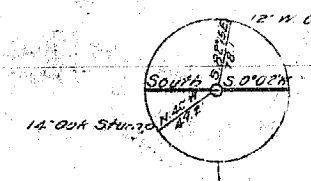
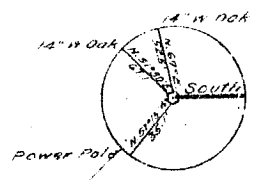
7' GRAVEL PAVEMENT

Theoretical Actual
Gravel per Sta = 15.46 cy
25840 x 15.46 = 4021 cy

See list attached to
Final estimate.

165423 Mant. Gr.

E. B. & R. W. S T O K E S



Const. 9' Conc. Slab
on Right between
Sta. 0+00 & 255+40.

Sta. 13+6. Build
Earth approach
on R. E.

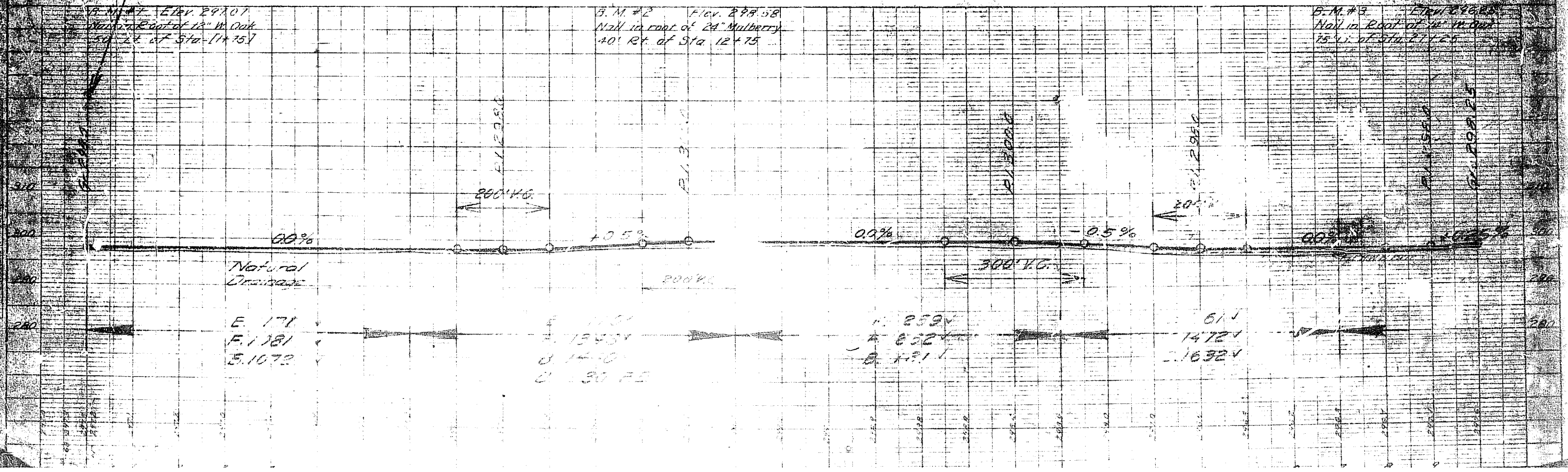
Sta. 274.21. Build
Earth approach on R.

Sta. 0+00 Beginning
of R. 25 S. 40
All S.R.F.E. CULVERTS
SECTION OF CONCRETE
SECTIONAL CONCRETE

B.M. #1 Elev. 297.07
Nail in Root of 12" W. Oak
40' E. of Sta. 11+75

B.M. #2 Elev. 298.58
Nail in Root of 24" Mulberry
40' E. of Sta. 12+75

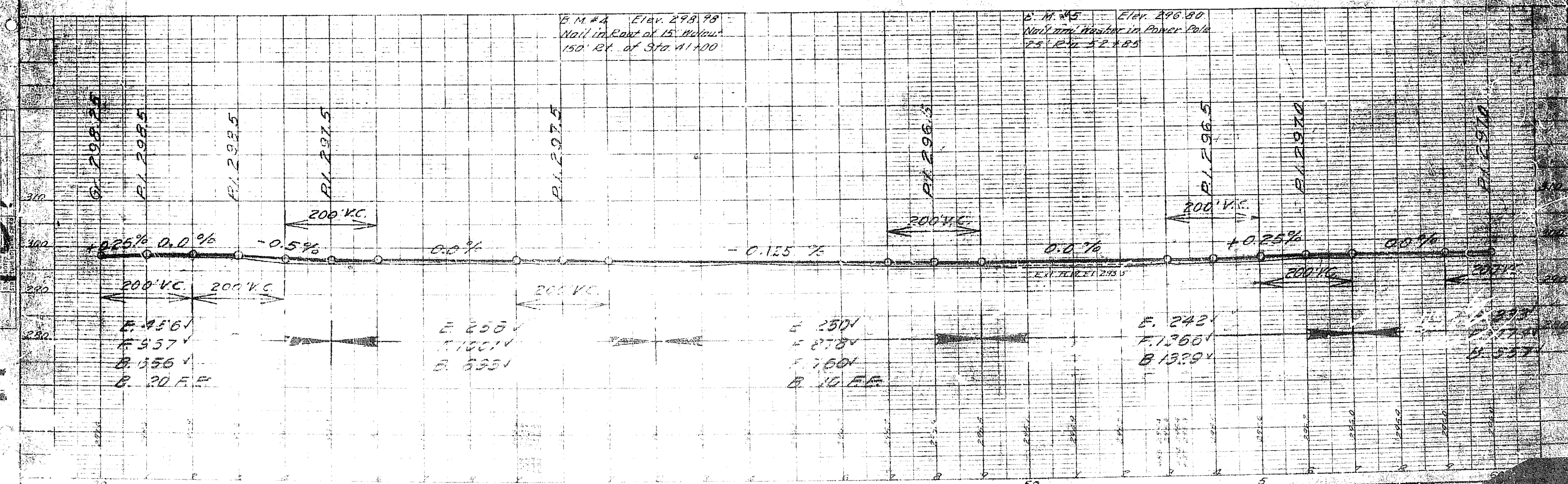
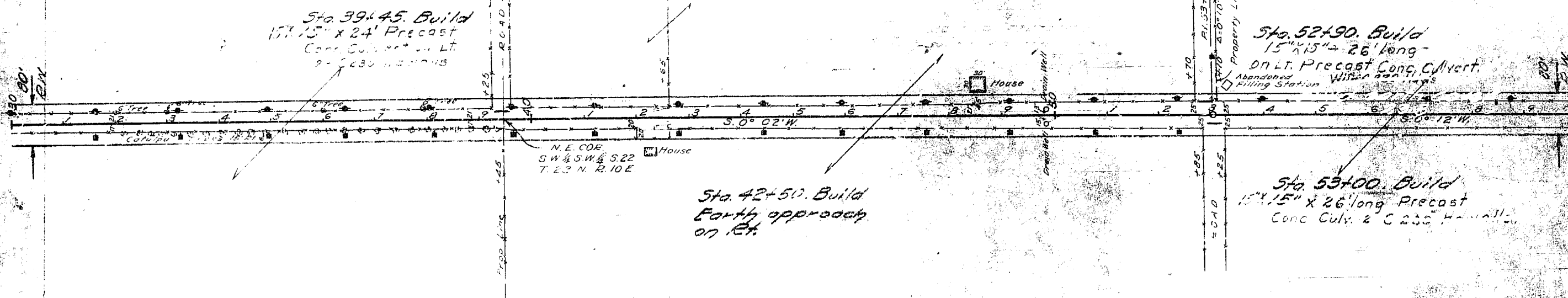
B.M. #3 Elev. 298.88
Nail in Root of 12" W. Oak
15' E. of Sta. 274.25

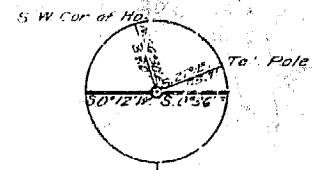


L. B. R. R. W. S T O K E S

J O H N A . F E R G U S O N

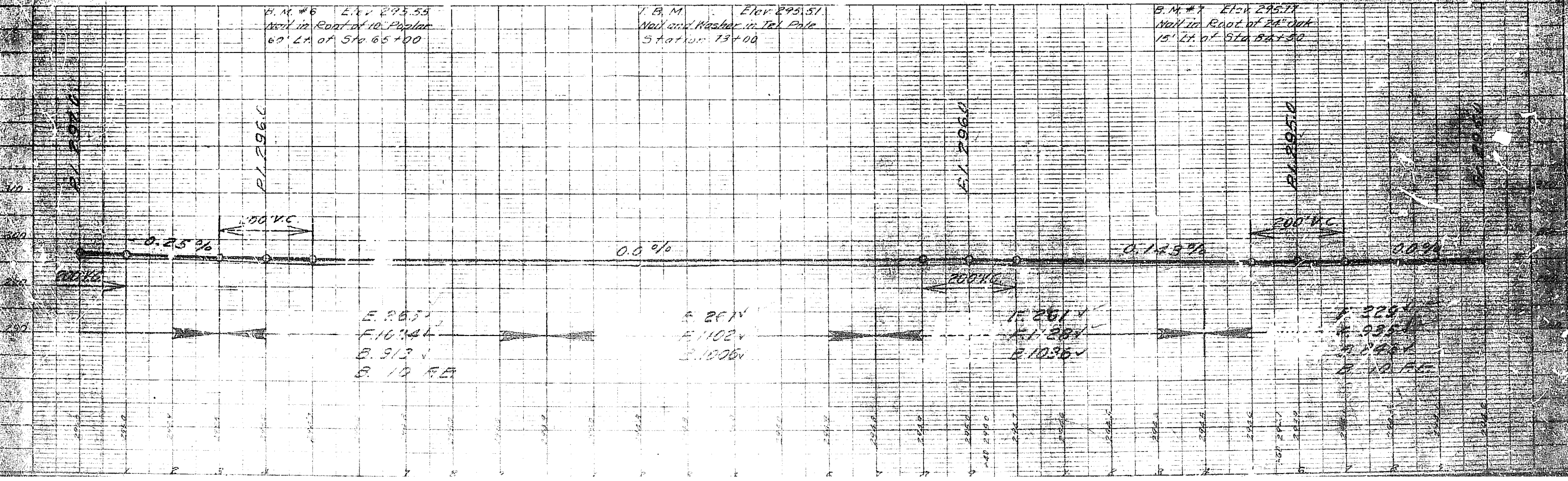
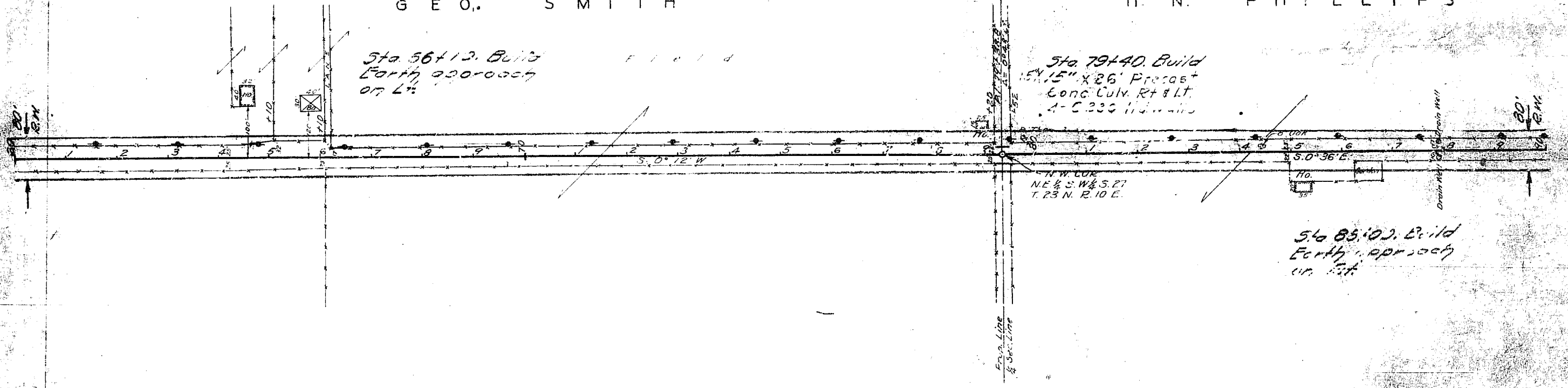
G E O . S M I T H

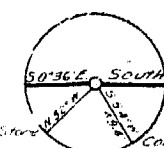




G E O. S M I T H

H. N. P H I L L I P S





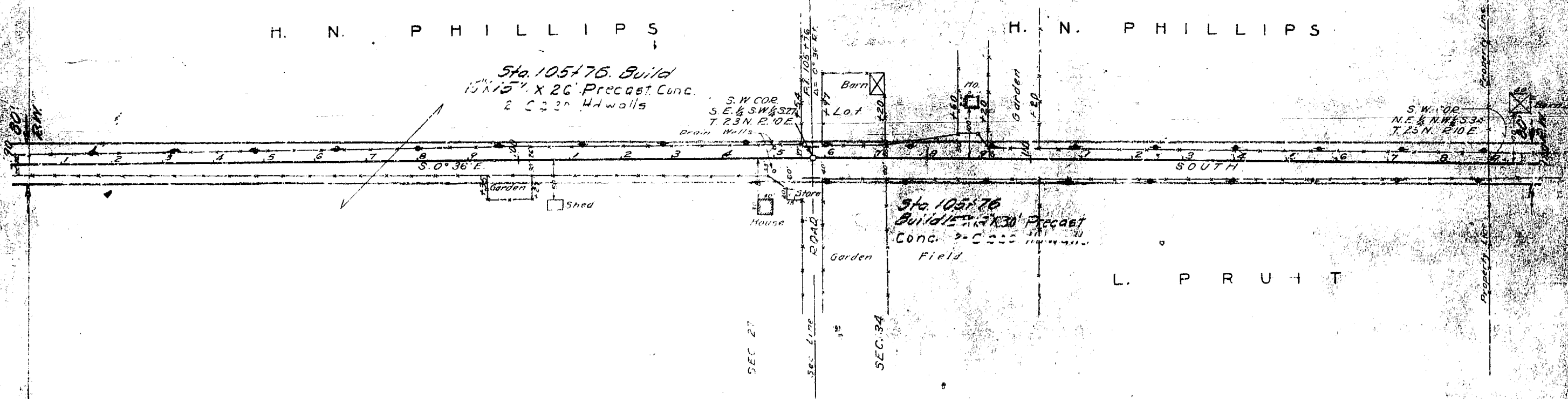
H. N. P H I L L I P S

H. N. P H I L L I P S

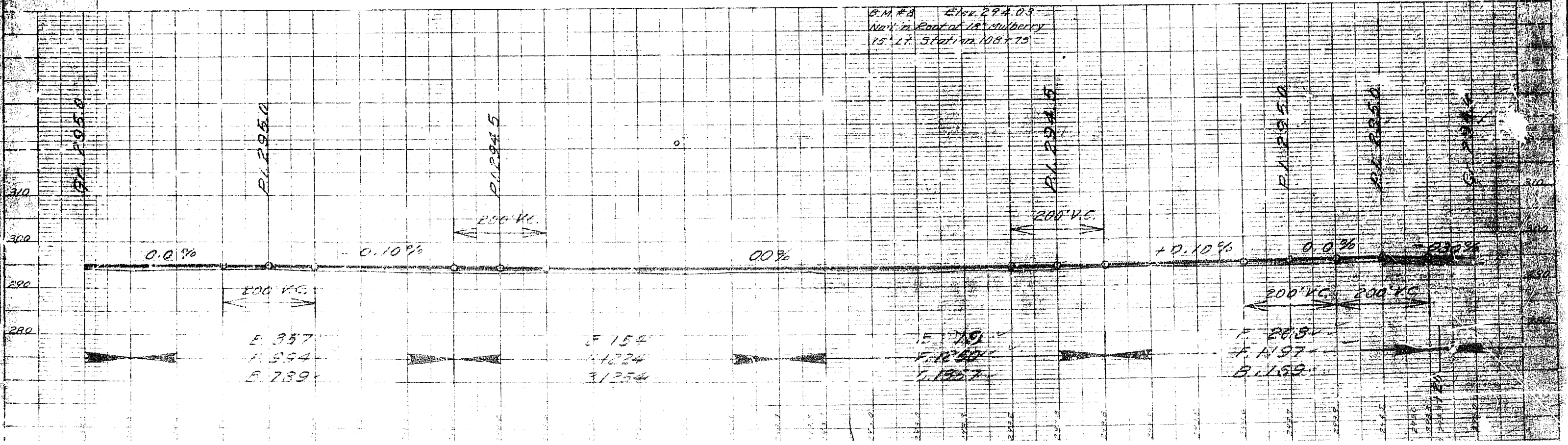
Sta. 105+76. Build
15' x 26' Precast Conc.
2 C 20 Hd walls

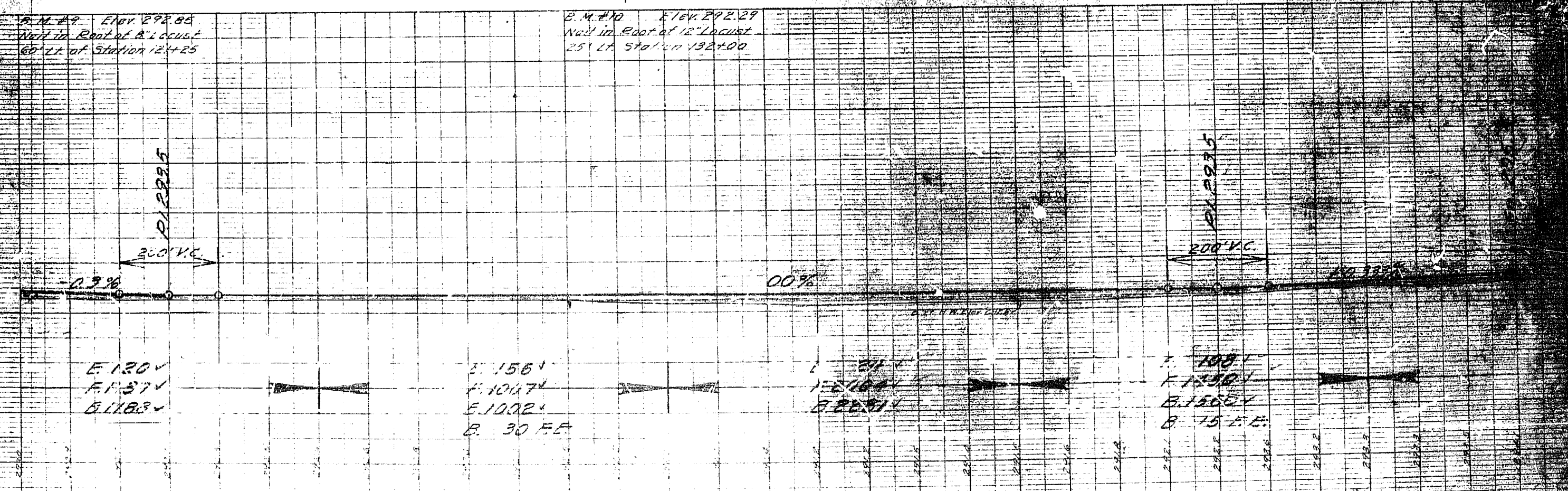
S.W. COR.
S.E. 1/4 SW 1/4
T. 23 N. R. 10 E.
Drain Wells

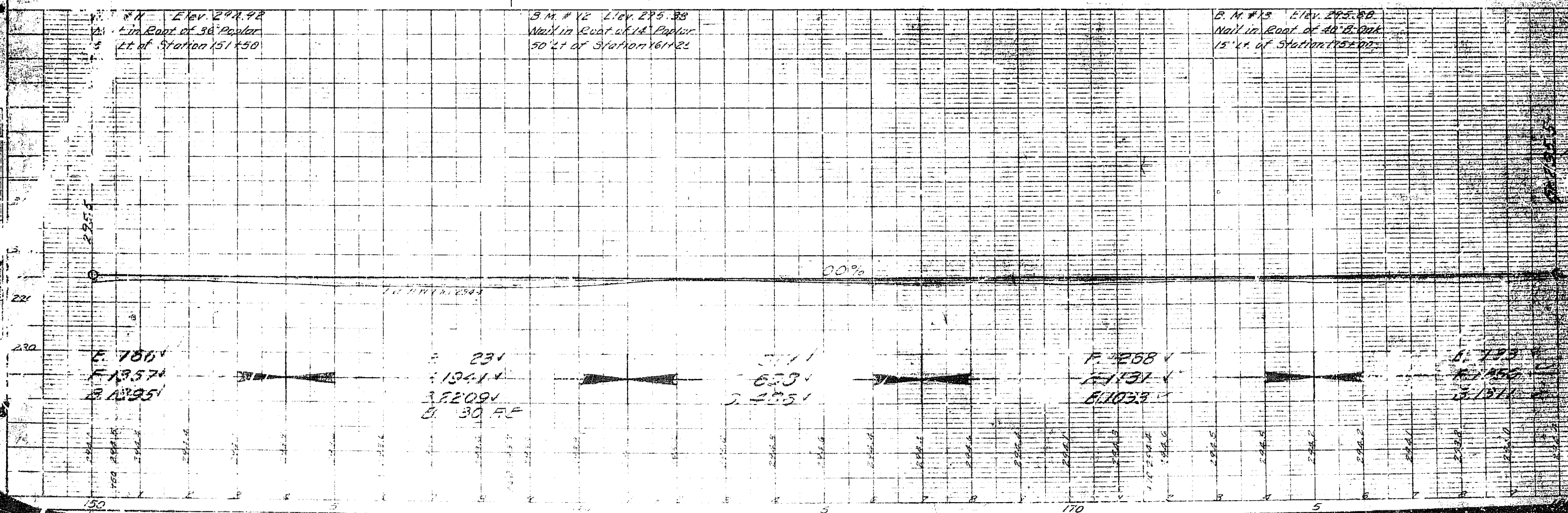
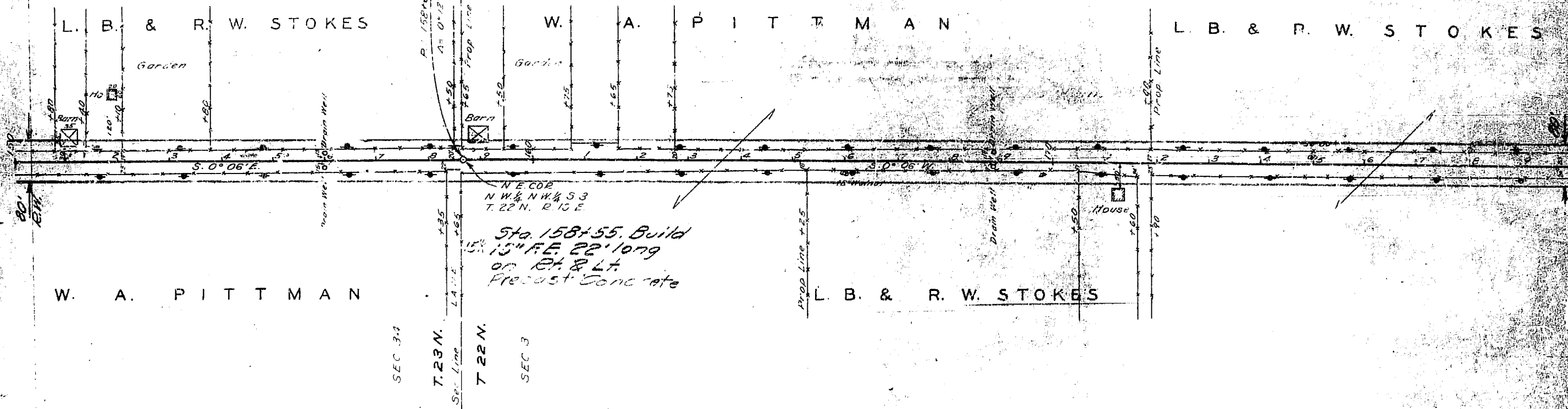
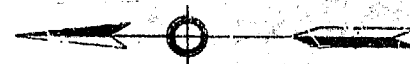
S.W. 1/4
N.E. 1/4 NW 1/4
T. 25 N. R. 10 E.

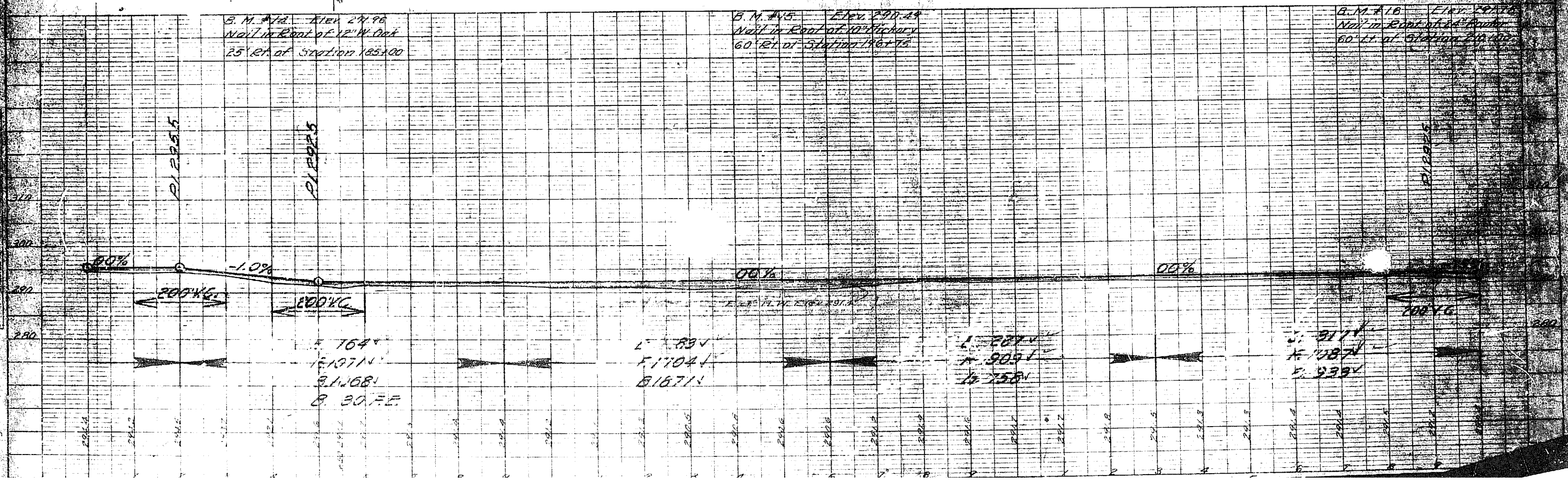
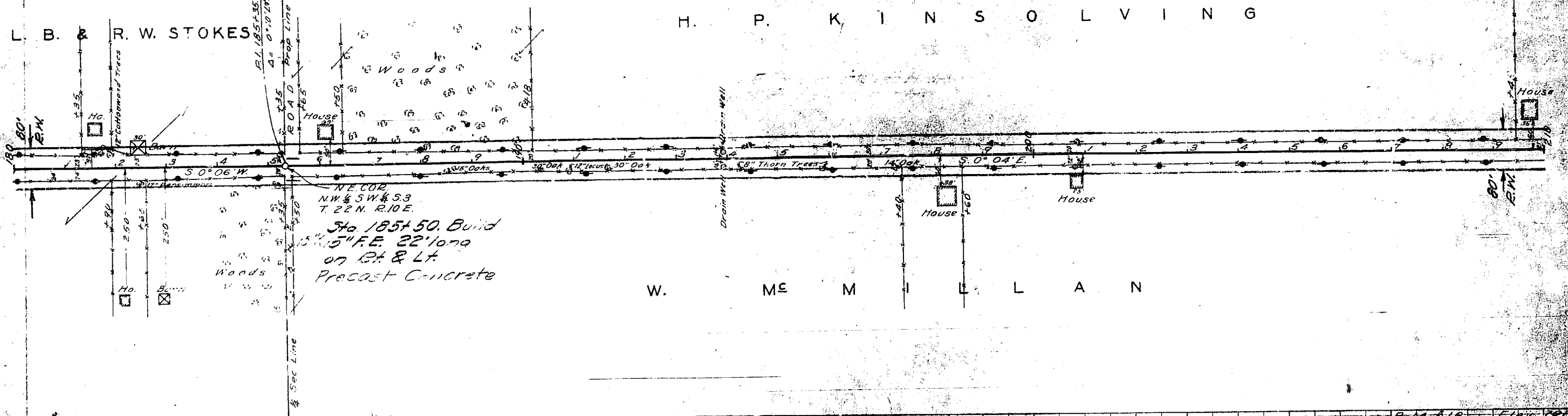


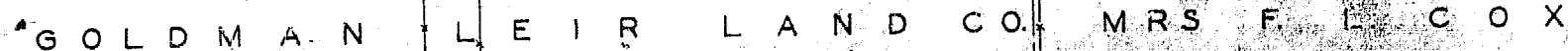
B.M. #8 Elev. 294.03
Nail in Root of 18" Mulberry
15' L. Station 108+75









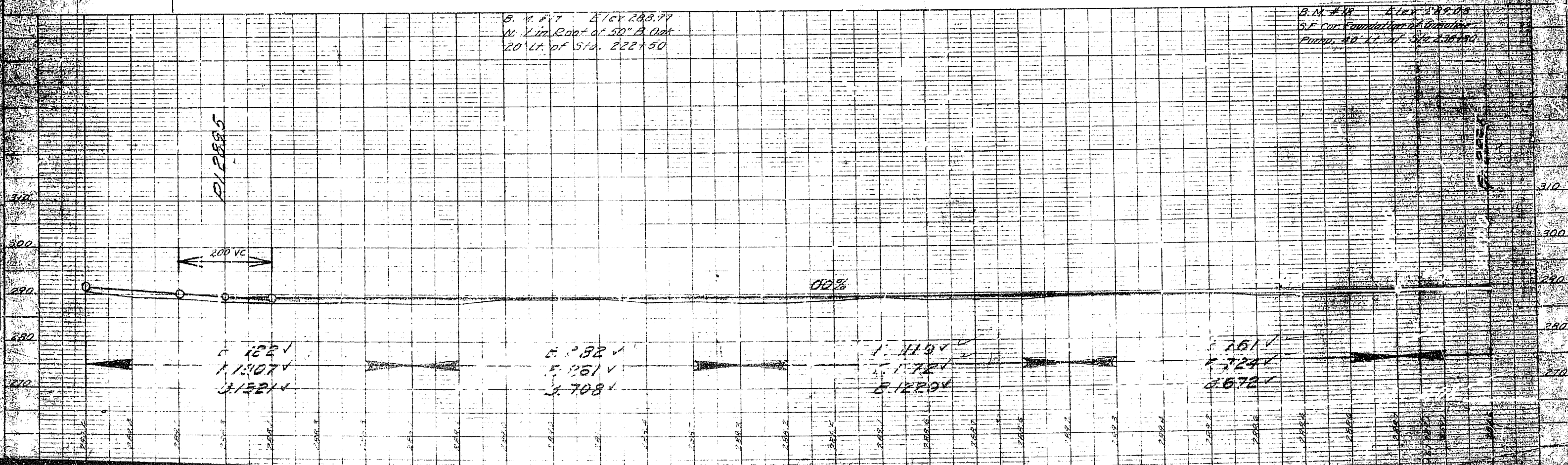


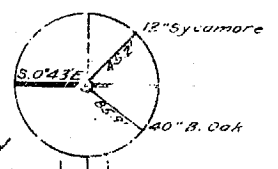
Sta. 211+70. Build
15" x 22" Precast Conc.
on R & L
C-250 U-bolts

N.W. 1/4 N.W. 1/4 S. 10
T. 22 N. R. 10 E.

W. W. MILLAN

MITCHELL & KIRKBRIDE





TOWN

OF

MAIDEN

EXCEPTION

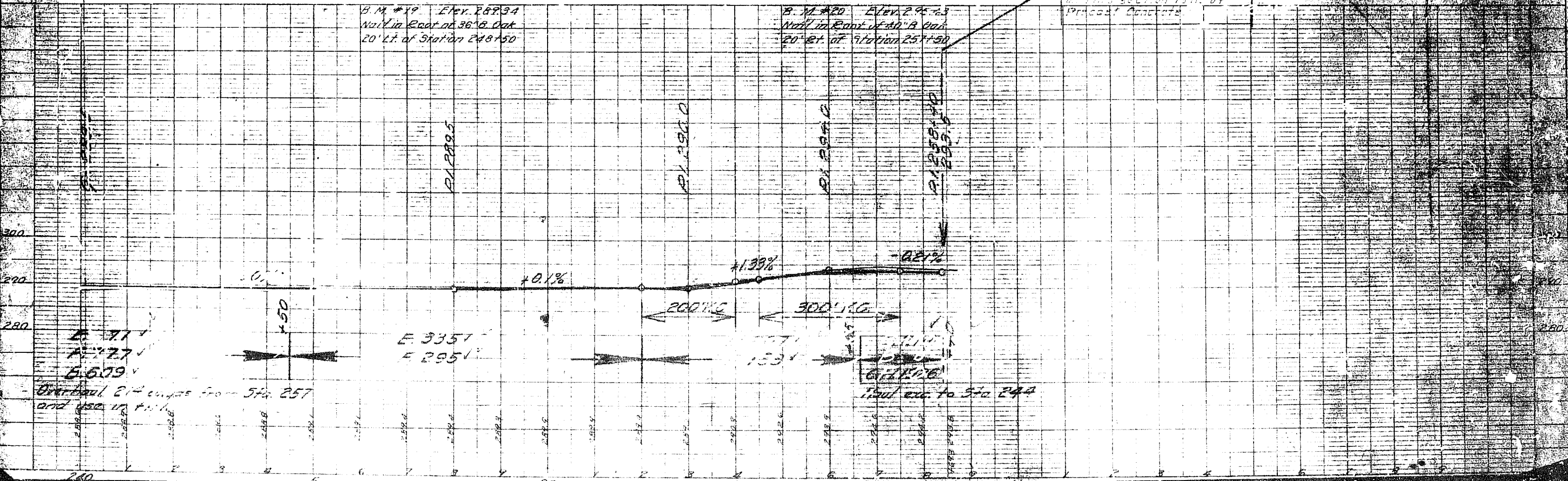
Sta. 258+40 to 294+40 = 3600'

Sta. 258+40. End of R. 25 S. 40

All 54 x 42 Culverts used in this section are of Precast Concrete

B.M. #19 Elev. 289.34
Nail in Root of 36" B. Oak
20' E. of Station 248+50

B.M. #20 Elev. 295.23
Nail in Root of 40" B. Oak
20' E. of Station 251+50



Sta. 241+00. Build 15" x 30' lg Precast Con on R. & L. S. Davis

Sta. 245+50. Build 15" x 30' lg Precast Con on R. & L. Dr. H. E. Bell Catholic Church

Sta. 249+80. Build 15" x 30' lg Precast Con on R. & L. H. N. Phillips L. F. Miller

Sta. 254+10. Build 15" x 30' lg Precast Con on R. & L. Spiller Heirs

Streets shown: W. L. McMillon, Francis, Sam Davis, Sid Davis, J. B. Stubblefield, Cleveland, A. Leominth, M. E. Tomlinson, J. D. Van Cleave, A. L. Stokes, Park, Presbyterian Church, Syl. Machon, Howard, S. A. Marshall, Hilda McDaniel, Hilda McDaniel, Spiller Heirs, Main Street.

25
40
Dunklin
12

C-230

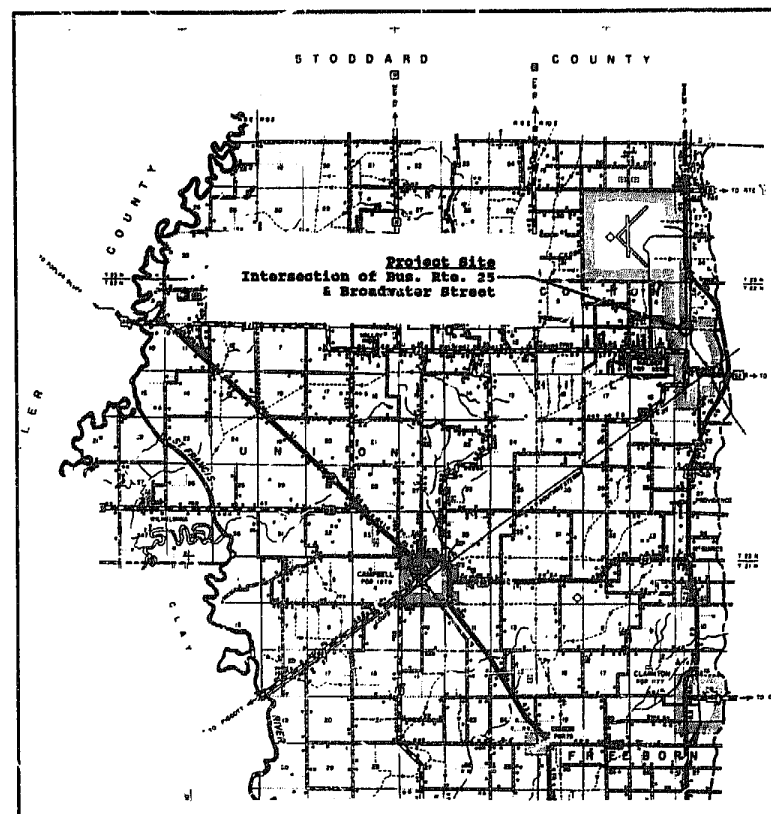
DESIGN DESIGNATION

A.D.T. - YEAR 1991 - 9800
A.D.T. - YEAR 2011 - 14,700
STREET WIDTH: 24', VARIES

V = 35 MPH

MISSOURI STATE HIGHWAY AND
TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
INTERSECTION IMPROVEMENTS
BUSINESS ROUTE 25 AT BROADWATER STREET
CITY OF MALDEN, MISSOURI

FEDERAL AID PROJECT



VICINITY MAP

1 0 1 2 3 4 MILES

SCALE

FINAL PLANS

OCT 09 1992

COUNTY DUNKLIN

CITY MALDEN

ROUTE BUSINESS ROUTE 25

PROJECT STP6-MG-4101(001)

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
SUMMARY (1 SHEET)	2-A
SUMMARY (2 SHEETS)	2-B
PLAN & PROFILES	3-4
TRAFFIC CONTROL PLAN	5-6
SIGNALS	7-10
CROSS-SECTIONS	11-12
Standard Plans Index	13A

LENGTH OF PROJECT

END OF PROJECT 12+88
BEGINNING OF PROJECT 1+12
APPARENT LENGTH 1,176 FT.
MILEAGE 0.22 MI.

CONSULTING ENGINEER
S. H. SMITH & CO., INC.

PREPARED:

Alan W. Smith

3/13/91
DATE

APPROVED

W. J. Lewis

MAYOR

10 JUNE 1991
DATE

MISSOURI STATE HIGHWAY AND TRANSPORTATION
COMMISSION

SUBMITTED

Alan W. Smith

CHIEF ENGINEER

5-22-91
DATE

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ENGINEER

DATE



NOTE:

THIS PROJECT SHALL BE CONSTRUCTED AS
JOB NO. J0U0395 AND ALL REFERENCE TO
JOB NO. 190002.00 FOUND ELSEWHERE IN
THESE PLANS SHALL BE CONSIDERED VOID.

NOTE:

~~THIS PROJECT SHALL BE CONSTRUCTED AS
PROJECT NO. FAN-100001 AND ALL REFERENCE TO
PROJECT NO. 190002.00 FOUND ELSEWHERE IN THESE PLANS SHALL
BE CONSIDERED VOID.~~

SUMMARY OF QUANTITIES

[illegible]

ITEM	DESCRIPTION	UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-55.00	ENHANCEMENT IN PLACE	CU YD	600
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE) AC-20	TON	49.9
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	882
304-00.63	TYPE 2 AGGREGATE FOR BASE (C.O.#1M) (6 IN. THICK)	SQ YD	1,710
403-10.11	ASPHALT CEMENT (ASPHALTIC CONCRETE) AC-20	TON	46.3
403-10.26	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	1,006
407-10.05	TACK COAT	GALLON	1,000
601-10.00	FIELD LABORATORIES	LUMP SUM	1
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LIN FT	70
612-10.30	MOVABLE BARRICADE	EACH	0
612-90.20	INSTALLING GIVE AWAY BRAKE 4 FT. X 4 FT. SIGN	EACH	4
616-10.05	CONSTRUCTION SIGNS	SQ FT	196
616-10.20	CHANNELIZER (J-RUN)	EACH	56
616-10.52	WARNING LIGHT, TYPE B	EACH	0
618-10.00	MOBILIZATION	LUMP SUM	1
619-10.00	PAVEMENT EDGE TREATMENT	LIN FT	1,776
620-02.24	24 IN. TYPE 1 PREFORMED YELLOW MARKER	LIN FT	146.0
620-20.00	TYPE 1 PREFORMED STOP LINE, WHITE (24 IN. WIDE)	LIN FT	74
620-50.01	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID WHITE	100 FT	38.5
620-50.02	TYPE 1 PREFORMED MARKING TAPE 4 IN., INTERMITTENT WHITE	100 FT	0
620-50.03	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID YELLOW	100 FT	32.7
620-53.01	PREFORMED REMOVABLE MARKING TAPE 4 IN., SOLID WHITE	100 FT	0
620-53.03	PREFORMED REMOVABLE MARKING TAPE 4 IN., SOLID YELLOW	100 FT	0
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	90
802-40.00	TYPE 4 MULCH (C.O.#2M)	ACRE	0
805-10.00	SEEDING	ACRE	0.5
	TRAFFIC SIGNALS		
902-02.13	SIGNAL HEAD, TYPE 3S	EACH	2
902-05.13	SIGNAL HEAD, TYPE 3B	EACH	6
902-05.15	SIGNAL HEAD, TYPE 5B	EACH	2
902-26.50	150 WATT 120 VOLT HIGH PRESSURE SODIUM LUMINAIRE	EACH	4
902-31.16	POST, TYPE CL, 16A	EACH	2
902-31.30	POST, TYPE CL, 30A	EACH	2
902-42.80	CONTROLLER ASSEMBLY HOUSING, KEYBOARD ENTRY, MODULAR BY FUNCTION, 8 PHASE DP CONTROLLER	EACH	1
902-49.42	DETECTOR, INDUCTION LOOP VEHICLE (2 CHANNEL)	EACH	3

F.A.M.-4101(001) 25 BUS. DUNKLIN

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO.	SHEET NO.
MO	3900395	28
DIST NO.	PROJECT NO.	ROUTE
10	MG-4101(001)	25B
COUNTY	DUNKLIN	

REMOVAL OF IMPROVEMENTS										CONCRETE CURB									
SHEET	STA	LOC	STA	LOC	DESCRIPTION	REMARKS					TYPE	S' CURB							
5	H+15	LT.	2+60	LT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 169 S.Y.	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	5+50	LT.	4+51	LT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 157 S.Y.													
	5+45	LT.	-	-	EXISTING 12' CMP	~ 50'													
	4+59	LT.	4+97	LT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 107 S.Y.													
	4+70	LT.	-	-	EXISTING 12' CMP	~ 30'													
	6+90	LT.	10+06	LT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 164 S.Y.													
	10+70	LT.	11+50	LT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 85 S.Y.													
5	11+90	LT.	12+40	LT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 45 S.Y.	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	H+14	RT.	H+57	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 59 S.Y.													
	2+25	RT.	2+66	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 70 S.Y.													
	2+76	RT.	3+14	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 89 S.Y.													
	5+50	RT.	5+74	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 87 S.Y.													
	4+20	RT.	6+90	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 724 S.Y.													
	9+16	RT.	10+41	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 164 S.Y.													
5	10+65	RT.	11+40	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 91 S.Y.	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	11+95	RT.	12+72	RT.	EXISTING DRIVEWAY SHOULDER RTE 25	~ 69 S.Y.													
	4+00	RT.	4+50	RT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 42 S.Y.													
	5+02	RT.	6+07	RT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 55 S.Y.													
	7+40	RT.	8+00	RT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 157 S.Y.													
	4+54	LT.	6+79	LT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 256 S.Y.													
	7+79	LT.	9+67	LT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 90 S.Y.													
5	5+50	LT.	5+60	LT.	EXISTING 6' VERT. CURB (CONC.)	~ 40 L.F.	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	4+00	RT.	4+50	RT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 42 S.Y.													
	5+02	RT.	6+07	RT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 55 S.Y.													
	7+40	RT.	8+00	RT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 157 S.Y.													
	4+54	LT.	6+79	LT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 256 S.Y.													
	7+79	LT.	9+67	LT.	EXISTING DRIVEWAY SHOULDER BROADWATER	~ 90 S.Y.													
	5+50	LT.	5+60	LT.	EXISTING 6' VERT. CURB (CONC.)	~ 40 L.F.													
7	4+15	LT.	4+21	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 14 L.F. (WITHIN R/W)	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	4+52	LT.	4+56	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 10 L.F. (WITHIN R/W)													
	4+06	LT.	4+00	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 17 L.F. (WITHIN R/W)													
	4+25	LT.	4+12	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 21 L.F. (WITHIN R/W)													
	4+65	LT.	4+75	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 22 L.F. (WITHIN R/W)													
	4+56	RT.	4+54	RT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 27 L.F. (WITHIN R/W)													
	5+50	RT.	5+66	RT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 17 L.F. (WITHIN R/W)													
7	5+96	RT.	6+05	RT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 16 L.F. (WITHIN R/W)	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	7+02	LT.	7+00	LT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 11 L.F.													
	8+00	LT.	8+14	LT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 15 L.F. (WITHIN R/W)													
	4+15	LT.	4+21	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 14 L.F. (WITHIN R/W)													
	4+52	LT.	4+56	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 10 L.F. (WITHIN R/W)													
	4+06	LT.	4+00	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 17 L.F. (WITHIN R/W)													
	4+25	LT.	4+12	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 21 L.F. (WITHIN R/W)													
7	4+65	LT.	4+75	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 22 L.F. (WITHIN R/W)	5.7	6+50	6+75	40' RT.	25'	L.F.	REMARKS						
	4+56	RT.	4+54	RT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 27 L.F. (WITHIN R/W)													
	5+50	RT.	5+66	RT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 17 L.F. (WITHIN R/W)													
	5+96	RT.	6+05	RT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 16 L.F. (WITHIN R/W)													
	7+02	LT.	7+00	LT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 11 L.F.													
	8+00	LT.	8+14	LT.	EXISTING 6' VERT. CURB (CONC.) BROADWATER	~ 15 L.F. (WITHIN R/W)													
	4+15	LT.	4+21	LT.	EXISTING 6' VERT. CURB (CONC.) RTE 25	~ 14 L.F. (WITHIN R/W)													
ENTRANCES										TYPE 'C' ASPH. CONC. BASE									
										4' BITUM. BASE									
										ASPH. MIN. CEM. AGG. TONS									
SHEET	STA	TYPE	LOC	WIDTH	'D'	2' S.Y.	SKREW	TONS	TONS	TONS	TONS	REMARKS							
5	H+27	CE	LT.	30'	15'	59		0.5	0.4	0.7	12.6	NO PIPE RTE 25							
	2+20	CE	LT.	44'	12'	22		0.4	0.2	0.9	17.4	EXIST. 6' CMP (U.L.P.); RTE 25							
	5+95	CE	LT.	42'	18.5'	15		0.5	12.3	13	24.5	50 L.F. 12' CL RCP 0.0% GR; RTE 25							
	4+70	CE	LT.	30'	19'	22		0.4	0.2	0.9	17.5	40 L.F. 12' CL RCP 0.0% GR; RTE 25							
	4+56	CE	LT.	56'	15'	15		0.5	12.3	13	24.5	NO PIPE RTE 25							
	11+4	CE	LT.	18'	14'	44		0.2	4.7	0.5	9.4	NO PIPE RTE 25							
	H+55	CE	RT.	26'	13'	64		0.3	6.2	0.7	13.6	EXIST. 5' CMP (U.L.P.); RTE 25							
	2+42	CE	RT.	26'	13'	60		0.3	6.4	0.7	12.8	EXIST. 5' CMP (U.L.P.); RTE 25							
	2+96	CE	RT.	28'	19'	70		0.4	8.3	0.9	16.6	EXIST. 5' CMP (U.L.P.); RTE 25							
	5+50	CE	RT.	28'	18'	76		0.4	8.1	0.9	16.2	EXIST. 5' CMP (U.L.P.); RTE 25							
	4+59	CE	RT.	40'	20'	102		0.5	10.9	1.1	21.7	NO PIPE RTE 25							
	4+91	CE	RT.	50'	20'	146	34' AHD	0.7	15.6	1.6	31.1	NO PIPE RTE 25							
	6+43	CE	RT.	45'	17'	144	42' BK	0.7	15.4	1.6	30.7	NO PIPE RTE 25							
	9+16	CE	RT.	56'	15'	104		0.5	11	1.2	22.2	NO PIPE RTE 25							
	11+02	CE	RT.	30'	15'	79		0.4	8.4	0.9	16.8	EXIST. 12' RCP (U.L.P.); RTE 22							
12+55	CE	RT.	26'	12'	61		0.3	6.5	0.7	13.0	EXIST. 12' RCP (U.L.P.); RTE 72								
5	4+95	CE	LT.	28'	9'	94		0.4	10.0	1.1	20.0	NO PIPE BROADWATER							
	5+90	CE	LT.	45'	9'	57		0.3	6.1	0.6	12.1	NO PIPE BROADWATER							
	7+90	CE	LT.	20'	9'	20		0.1	3.0	0.3	6.0	NO PIPE BROADWATER							
	9+45	CE	LT.	30'	9'	40		0.2	4.3	0.4	8.5	NO PIPE BROADWATER							
	4+26	CE	RT.	32'	9'	45		0.2	4.6	0.5	9.2	NO PIPE BROADWATER							
	5+21	CE	RT.	32'	9'	40		0.2	4.3	0.4	8.3	NO PIPE BROADWATER							
	8+19	CE	RT.	56'	9'	65		0.3	6.9	0.7	13.8	NO PIPE BROADWATER							
	TOTALS										1770	*	*	*	*	* PAID BY MATERIAL TICKETS			

CONCRETE CURB									
SHEET	STA	STA	LOC	L.F.	TYPE	S' CURB	6' HT. & UNDER	REMARKS	
5.7	6+50	6+75	40' RT.	25'	L.F.	25'	45'	SEE DETAIL SHT. 7; RTE 25	SEE DETAIL SHT. 7; BROADWATER
				TOTALS	70'				

TYPE I PREFORMED MARKING TAPE																																																																																																																																																																																				
SHEET	STA	STA	FT	LENGTH	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')	WHITE (100')

SUMMARY OF QUANTITIES

D-2BS
REV JAN. 19, 1990

STATE
MO
DIST NO.
10
COUNTY
DUNKLIN

JOB NO. J000395
PROJECT NO. MG-4101(001)
ROUTE
25B

SHEET NO
2B

FINAL PLANS

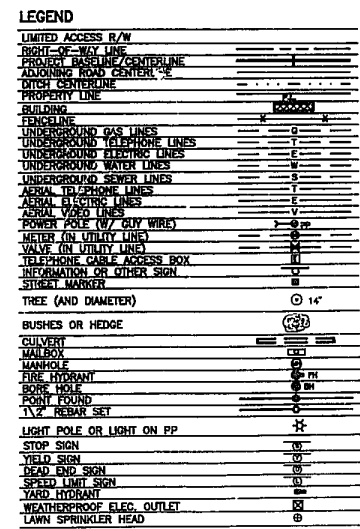
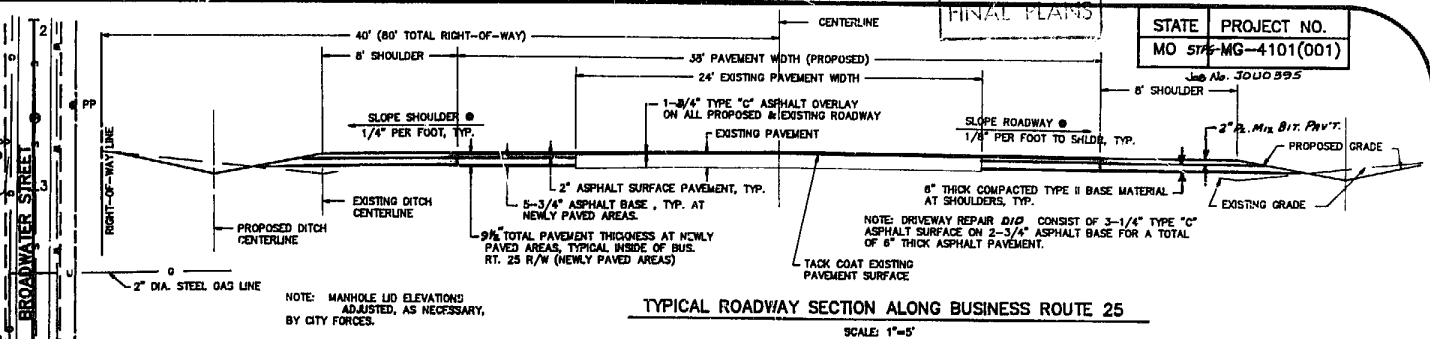
SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1Lb	48X48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48X48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48X48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48X48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48X48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48X48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48X48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4Lb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM LT ARROWS)
W01-4Rb	48X48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)
W01-6	48X24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.0					HORIZONTAL ARROW (SYMBOL)
W01-7	48X24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18X24	3.0					CHEVRON (SYMBOL)
W03-1b	48X48	16.0					STOP AHEAD
W03-2b	48X48	16.0					YIELD AHEAD
W03-3b	48X48	16.0					SIGNAL AHEAD (SYMBOL)
W03-4b	48X48	16.0					BE PREPARED TO STOP
W04-1Lb	48X48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1Rb	48X48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1a	48X48	16.0					ROAD NARROWS
W05-3a	48X48	16.0					ONE LANE BRIDGE
W06-1b	48X48	16.0					DIVIDED HIGHWAY
W06-2b	48X48	16.0					DIVIDED HIGHWAY ENDS
W06-3b	48X48	16.0					TWO WAY TRAFFIC (SYMBOL)
W06-3x	24X18	3.0					TWO WAY TRAFFIC (PLAQUE)
W08-1b	48X48	16.0					BUMP
W08-2b	48X48	16.0					DIP
W08-3	48X48	16.0					PAVEMENT ENDS
W08-4b	48X48	16.0					SOFT SHOULDER
W08-5b	48X48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6b	48X48	16.0					TRUCK CROSSING
W08-6c	48X48	16.0					TRUCK ENT (INCLUDES W025-1b PLATE)
W08-7a	36X36	9.0					LOOSE GRAVEL
W08-9	48X48	16.0					LOW SHOULDER
W08-9La	48X48	16.0					UNEVEN PAVEMENT (SYM FOR LT DROPOFF)
W08-9Ra	48X48	16.0					UNEVEN PAVEMENT (SYM FOR RT DROPOFF)
W09-1R	48X48	16.0					RIGHT LANE ENDS (INCLUDES W025-3c PLATE)
W09-2Rc	48X48	16.0					LANE ENDS MERGE RIGHT (INCLUDES W025-3b PLATE)
W10-1A	42X18	9.6					RAILROAD CROSSING
W012-1	24X24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W012-2a	48X48	16.0					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.0					LOW CLEARANCE (PLAQUE)
W012-3a,b	14X24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W013-1a	24X24	4.0					ADVISORY SPEED (PLAQUE)
W020-1	48X48	16.0	2	32.0			ROAD CONST AHEAD (INCLUDES W025-6 PLATE)
W020-2	48X48	16.0					DETOUR AHEAD (INCLUDES W025-1b PLATE)
W020-3	48X48	16.0					ROAD CLOSED AHEAD (INCLUDES W025-1c PLATE)
W020-4a,c	48X48	16.0	2	32.0			ONE LANE ROAD AHEAD (INCLUDES W025-1a PLATE)
W020-5	48X48	16.0					RIGHT LANE CLOSED AHEAD (INCL W025-3d PLATE)
W020-6a	48X48	16.0					RIGHT LANE CLOSED (INCLUDES W025-3c PLATE)
W020-7b	48X48	16.0	2	32.0			FLAGMAN AHEAD (INCLUDES W025-1b PLATE) (SYMBOL)
W020-8	36X18	4.5					WORKERS AHEAD
W020-9c	48X48	16.0	2	32.0			OPEN TRENCH
W021-2b	48X48	16.0					FRESH OIL
W021-5b	48X48	16.0					SHOULDER WORK AHEAD
W021-7	36X36	9.0					SAND BLASTING
W022-1	48X48	16.0					BLASTING ZONE 1000 FT
W022-2	42X36	10.5					TURN OFF 2-WAY RADIO
W022-3	42X36	10.5					END BLASTING ZONE
W022-5	30X30	6.3					NO PASSING ZONES UNMARKED
W025-1a	26X9						1000 FT/1500 FT Plate
W025-1b	38X9						500 FT/1000 FT Plate
W025-1c	48X48						500 FT/1000 FT Plate

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
REGULATORY SIGNS							
W025-3b	30X9						LEFT Plate
W025-3c	33X9						LEFT/CENTER Plate
W025-3d	22X9						LEFT/CENTER Plate
W025-5	30X12	2.5					1/2 MILE/ 1 MILE (PLAQUE)
W025-6	26X9						RAMP/BRIDGE Plate
R1-1b	48X48	13.25					STOP
R1-2a	48X48X48	6.93					YIELD
R1-3	20X9	1.25					4-WAY (PLAQUE)
R1-5	20X9	1.25					3-WAY (PLAQUE)
R2-1b	36X48	12.00	4	48.0			SPEED LIMIT XX 48 30MPH
R2-5	36X48	12.00					REDUCED SPEED AHEAD
R3-1b	36X48	12.00					NO RIGHT TURN
R3-2b	36X48	12.00					NO LEFT TURN
R3-3a	36X36	9.00					NO TURNS
R3-4b	36X48	12.00					NO U-TURNS
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1b	36X48	12.00					DO NOT PASS
R4-2b	36X48	12.00					PASS WITH CARE
R4-7Lb	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R4-17L	36X36	9.00					KEEP LEFT
R4-17R	36X36	9.00					KEEP RIGHT
R5-1	30X30	6.25					DO NOT ENTER
R5-1A	36X24	6.00					WRONG WAY
R6-1La	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1Ra	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2La	24X30	5.00					ONE WAY (LEFT)
R6-2Ra	24X30	5.00					ONE WAY (RIGHT)
R11-2	48X30	10.00					ROAD CLOSED
R11-3	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
R12-3B	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R20-1	36X18	4.50					WHEN FLASHING
GUIDE SIGNS							
G020-1	60X36	15.00					ROAD CONSTRUCTION NEXT XX MILES
G020-2	60X24	10.00	2	20.0			END CONSTRUCTION
M04-8a	30X15	3.13					DETOUR (PLAQUE)
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
M04-11	24X18	3.00					DETOUR ENDS
M4-1L	21X15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21X15	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							
M1-4	24X24	4.00					2B
M3-1	24X12	2.00					NORTH
M3-3	24X12	2.00					SOUTH
M4-3	24X12	2.00					BUSINESS
-	48X18	6.00					BROADWATER WEST
-	48X18	6.00					BROADWATER EAST
616-10.05 CONSTRUCTION SIGNS TOTAL 196.0							
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	SIZE (INS)	TOTAL QTY	DESCRIPTION
616-10.20	36X18	56	CHANNELIZER (DRUM)
616-10.35	8X24		TYPE I BARRICADE (ONE RAIL)
616-10.36	8X24		TYPE II BARRICADE (TWO RAILS)
616-10.40	36X72		FLASHING ARROW PANEL
616-10.45	18X18		TYPE I OBJECT MARKER
616-10.46	6X12		TYPE II OBJECT MARKER
616-10.47	8X24		TYPE III OBJECT MARKER
616-10.50	8		FLASHING ELECTRIC LIGHT
616-10.51	----		WARNING LIGHT TYPE A
616-10.52	----		WARNING LIGHT TYPE B
616-10.53	----		WARNING LIGHT TYPE C
616-10.54	----		STROBE LIGHT
616-10.60	----		RAISED PAVEMENT MARKER
616-10.70	28		FLEXIBLE DELINEATOR
612-10.30	72X144		MOVEABLE BARRICADE (THREE RAILS)
612-10.20	4X4	4	GIVE EM A BRAKE
619-10.00	LN.FT.	1776	PAVEMENT EDGE TREATMENT

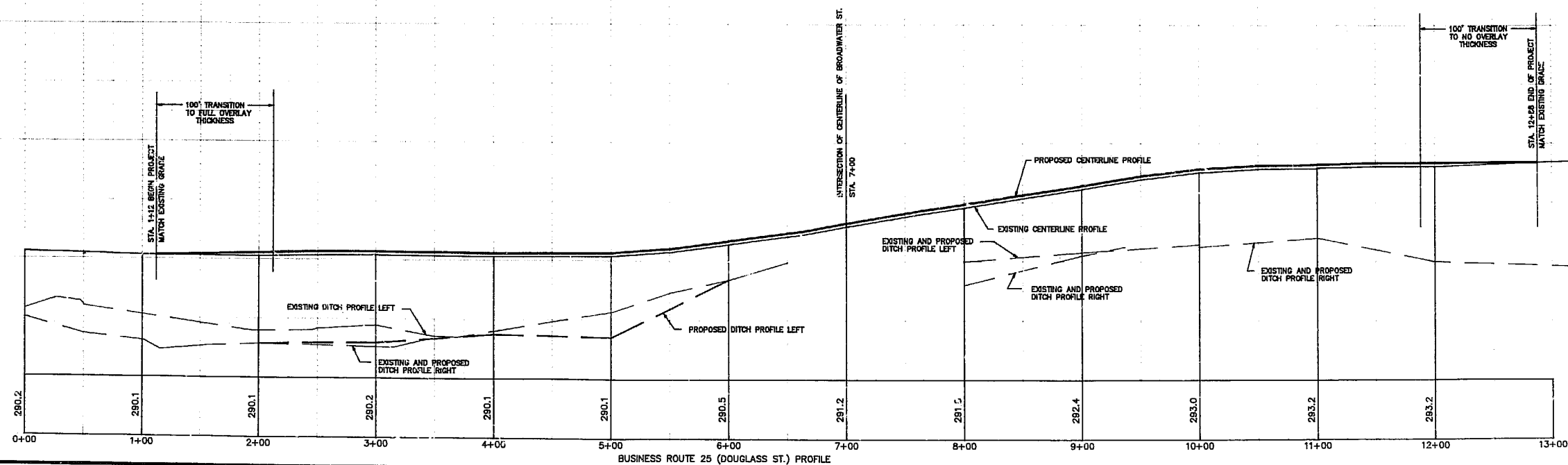
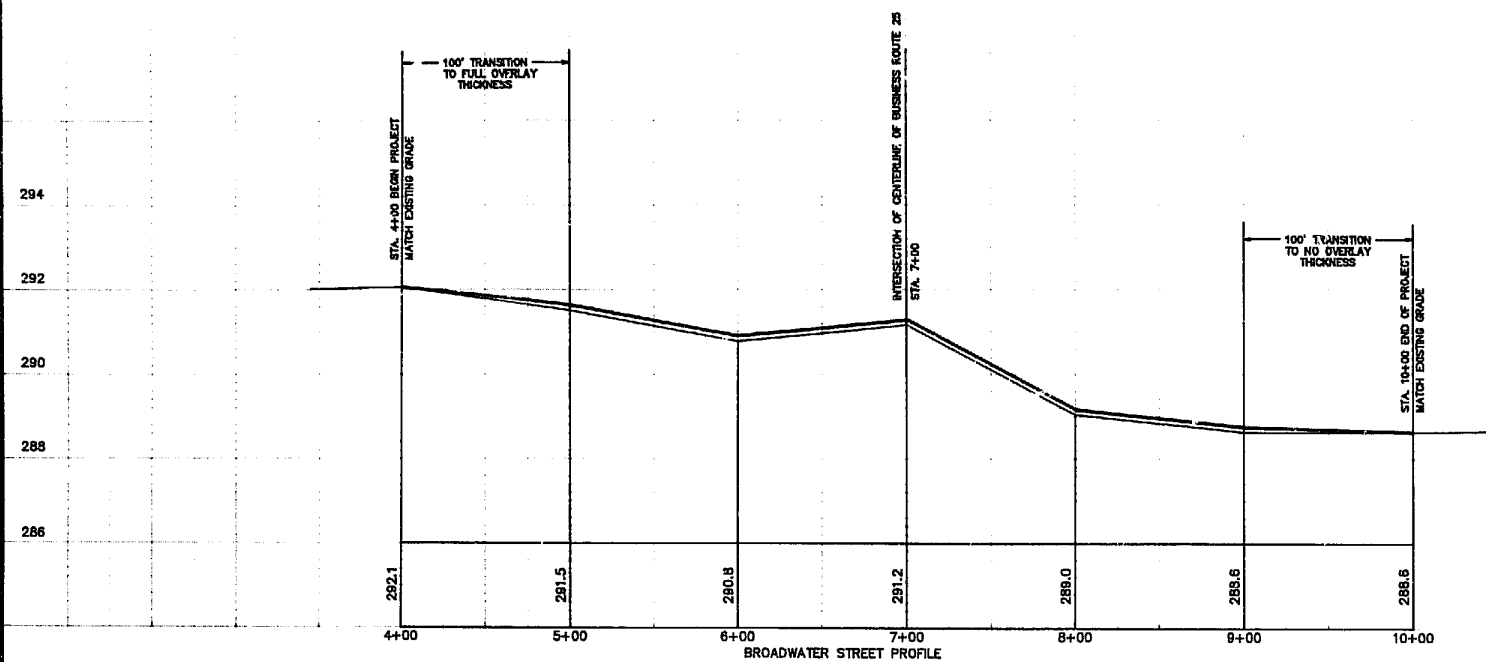
303 207

Alan M. Zupala



UTILITY INFORMATION:

1. TELEPHONE - SOUTHWESTERN BELL TELEPHONE, 600 W. PINE ST., POPLAR BLUFF, MO. 688-1152
2. VIDEO - ENSTAR CABLE, 2723 N. WESTWOOD BLVD., POPLAR BLUFF, MO., 785-3973
3. GAS-ASSOCIATED NATURAL GAS, P.O. BOX 357, MALDEN, MO., 278-2284
4. ELECTRIC, WATER & SEWER - BOARD OF PUBLIC WORKS, 111 E. LAFLECHE ST., MALDEN, MO. 63863, 278-2238



PLAT OR
-0.00, -0.19

DATE	REVISIONS	NO.	BY	CHK.	APP.

SURVEYED BY: RSI
DESIGNED BY: RSI
DRAWN P.L.: K.J.H.
CHECKED BY: A.W.M.
SCALE: 1"=50' H., 1"=2' V.
G:\DWG\MTS\WIRELEV 01/21/02 13:27

DATE: 12/01
DATE: 12/01
DATE: 12/01



S. H. SMITH & CO., INC.
CONSULTING ENGINEERS—REGISTERED LAND SURVEYORS
GEOTECHNICAL EXPLORATION—MATERIALS TESTING
POPLAR BLUFF, MISSOURI CAPE GIRARDEAU, MISSOURI

PROFILE BUSINESS ROUTE 25 & BROADWATER
MALDEN TRAFFIC SIGNALS
MALDEN, MISSOURI

JOB NO. 00000000
FIELD BOOK
SHEET 4 OF 12
DWG. NO. 2350.04

305 209

FINAL PLANS

REV SEP 6, 89

STATE	MO	JOB NO.	JOU0395	SHEET NO.	8
PROJECT NO.	MG-410(KC)	ROUTE	BUS 25		
COUNTY	DUNKLIN				

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			ACTUATED	SOLID STATE ON-OFF	COORDINATION	TONE UNIT		TIME
APPROACH	STATION	OFFSET	NEMA KEYBOARD ENTRY	PRE-TIMED TYPE	UNIT	MASTER	TRANS-RECEIVER	CLOCK
BUSINESS ROUTE 25	7+23	55 FT.	0 PHASE	S-M S-S S-N I II	LOCAL	BASE	MITTER	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING			SERVICE POLE	
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	SIDE OF CONTROLLER	CONTROL	CONTR. & SIGNAL LAMPS	MAIN BREAKER	CITY OF MALDEN UTILITY COMPANY
BUS. ROUTE 25	7+22	79 FT.	Type 3		15 Amps	15 Amps	30 Amps	40 Amps	EXISTING

POST NUMBER	PULL BOX NUMBER	DETECTOR NUMBER	LOCATION			BASES			DETECTOR		POST		COMMISSION FURNISHED SIGNS															
			APPROACH	STATION	OFFSET	A	B	C	CUBIC YARDS OF CONCRETE	TYPE	PULL BOX	TYPE	TYPE C & CL								TYPE B & BL							
													ARM LENGTH				SIGNAL SPACING				SIGN SPACING				ARM LENGTH			
													A	A	A	A	B	C	D	B	C	D	E	K	E	K	E	K
1			BUS. RT. 25	7+45	31.5' RT.				2.00																			
2			BUS. RT. 25	6+77.5	50' RT.				1.70																			
3			BUS. RT. 25	6+55	31.5' LT.				1.70																			
4			BUS. RT. 25	7+22.5	50' LT.				1.70																			
5			BUS. RT. 25	7+23	39' RT.																							
6			BUS. RT. 25	6+77.5	42' RT.																							
7			BUS. RT. 25	6+70	31.5' LT.																							
8			BUS. RT. 25	7+23	39' LT.																							
9			BUS. RT. 25	7+85	6' LT.																							
10			BUS. RT. 25	6+43	13' RT.																							
11			BUS. RT. 25	6+15	2' RT.																							
12			BUS. RT. 25	6+15	6' RT.																							
13			BUS. RT. 25	7+57	13' LT.																							
14			BUS. RT. 25	7+85	2' LT.																							
TOTAL									10.42			4																

POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	INDICATIONS *																VISORS*		LOUVERS*	BACKPLATE*		BRACKET*		ONE-FACE										TWO-FACE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			12" LENS CONVENTIONAL								12" LENS OPTICAL LIMITING								12" LENS	LENSES		TYPE	SECTION					SECTIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			R	Y	G	S	L	Rt	YL	PRt	W	DW	R	Y	G	S	L	Rt	YL				PRt	9.5	12	A	B	C	D	E	F	1	2	3	4	5	I	II	III	IV	V	T	S	C	B	T	S	C	B	T	S	C	B	T	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S

REMARKS

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

LEGEND
B-MAST ARM MOUNT
C-SPANWIRE MOUNT
T-TOP MOUNT
S-SIDE MOUNT

BUSINESS ROUTE 25 (DOUGLASS STREET)
AND BROADWATER STREET
INTERSECTION

D-37A

DATE	REVISION	NO.	BY	CHK.	APP.

SURVEYED BY: RSH
DESIGNED BY: RSH
CHECKED BY: RSH
SCALE: NONE
GRAPHIC SCALE:

DATE: 5-91
DATE: 8-91
DATE: 8-91

SHSC

S. H. SMITH & CO., INC.
CONSULTING ENGINEERS-REGISTERED LAND SURVEYORS
GEOTECHNICAL EXPLORATION-MATERIALS TESTING
POPLAR BLUFF, MISSOURI CAPE GIRARDEAU, MISSOURI

TRAFFIC SIGNAL QUANTITY SHEET NO. 1
BUSINESS ROUTE 25 AT BROADWATER STREET
MALDEN, MISSOURI

JOB NO. 190008.00
FIELD NO. 1008
SHEET 8 OF 12
DWG. NO. 2350.08

FINAL PLANS

STATE MO	JOB NO. J000395	SHEET NO. 3
DIST NO. 10	PROJECT NO. MG-410(001)	ROUTE
	COUNTY DUNKLIN	BUS 25

[illegible]

BUSINESS ROUTE 25 (DOUGLASS STREET)
AND BROADWATER STREET
INTERSECTION

D-37B

							SURVEYED BY	
							DRAWN BY	RSI
							CHECKED BY	KRI
							SCALE	RSI
							REVISIONS	NONE
DATE	REVISIONS							

DATE: 5-91
DATE: 5-91
DATE: 5-91

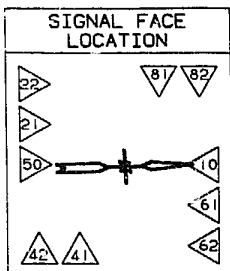
SHSC

S. H. SMITH & CO., INC.
CONSULTING ENGINEERS—REGISTERED LAND SURVEYORS
GEOTECHNICAL EXPLORATION—MATERIALS TESTING
POPLAR BLUFF, MISSOURI CAPE GIRARDEAU, MISSOURI

TRAFFIC SIGNAL QUANTITY SHEET NO. 2
BUSINESS ROUTE 20 AT BROADWATER STREET
MALDEN, MISSOURI

JOB NO. 190008.00
FIELD BOOK
SHEET 9 OF 12
DWG. NO. 2350.03

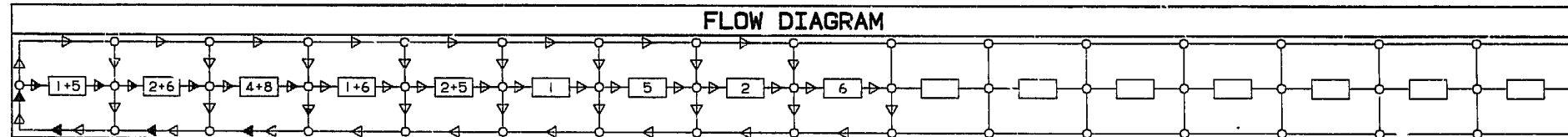
STATE MO	JOB NO. 3000395	SHEET NO. 10
DIST. NO. 10	PROJECT NO. MG-410(1001)	ROUTE BUS 25
	COUNTY DUNKLIN	



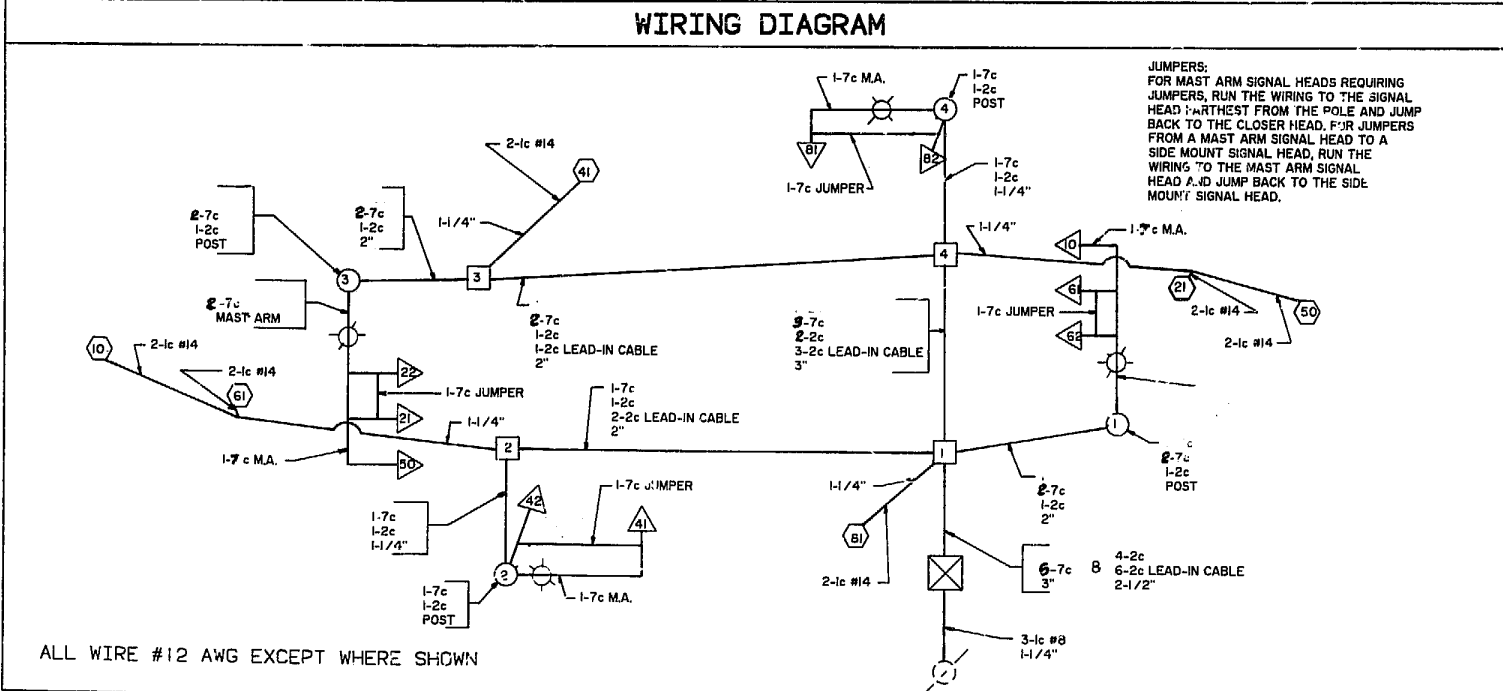
TRAFFIC PHASING AND COLOR SEQUENCE

CONT. NO.	PHASE 1	PHASE 5	PHASE 2	PHASE 5	PHASE 1 + 5	PHASE 1 + 6	PHASE 2 + 5	PHASE 2 + 6	PHASE 4 + 8	PHASE	PHASE	PHASE	PHASE	PHASE	PHASE	PHASE	FACE NO.
APPROACH	FACE NO.	W 5 2 5 1 1 2 2 A 0	W 1 2 6 1 1 2 2 A 0	W 1 6 1 1 2 2 A 0	W 5 2 5 1 1 2 2 A 0	W 1 5 2 6 1 1 2 2 A 0	W 5 2 6 1 1 2 2 A 0	W 1 2 6 1 1 2 2 A 0	W 1 5 1 1 2 2 A 0	W A 0	W	W	W	W	W	W	
NORTH BOUND	10	LYYYLLYY	RRRRRRRR	RRRRRRRR	GYGGGYGY	LYYYLLYY	LYYYLLYY	RRRRRRRR	GYGGGYGY	RR							10
	61&62	RRRRRRRR	RRRRRRRR	RRRRRRRR	GYGGGYGY	RRRRRRRR	GYGGGYGY	RRRRRRRR	GYGGGYGY	RR							61&62
SOUTH BOUND	50	RRRRRRRR	LYYYLLYY	GYGGGYGY	RRRRRRRR	LYYYLLYY	RRRRRRRR	LYYYLLYY	GYGGGYGY	RR							50
	21&22	RRRRRRRR	RRRRRRRR	GYGGGYGY	RRRRRRRR	RRRRRRRR	RRRRRRRR	GYGGGYGY	GYGGGYGY	RR							21&22
EAST BOUND	41&42	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	GY							41&42
WEST BOUND	81&82	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	RRRRRRRR	GY							81&82

FLOW DIAGRAM



WIRING DIAGRAM



— PHASE ON RECALL WITH EQUAL TIME SETTINGS.
 — SKIP PHASE.
 — COMBINED RECALL & SKIP PHASE.
 IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIMING TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW—FLASHING DON'T WALK
- R/W—RIGHT OF WAY INTERVAL
- DW—DON'T WALK
- YRt—YELLOW RIGHT ARROW
- RT.—GREEN RIGHT ARROW
- W—WALK
- LY—YL—YELLOW LEFT ARROW
- L—GREEN LEFT ARROW
- S—GREEN STRAIGHT AHEAD ARROW
- G—CIRCULAR GREEN
- Y—CIRCULAR YELLOW
- R—CIRCULAR RED
- Ø—TRAFFIC PHASE
- AO—ALL OTHERS
- FR—FLASHING RED
- FY—FLASHING YELLOW

FLASHING OPERATION

ALL APPROACHES	FR
CONTROLLER TYPE 8 Ø	

TRAFFIC SIGNAL CONTROL OPERATION

BUSINESS ROUTE 25 (DOUGLASS STREET)
INTERSECTION OF BROADWATER STREET
WITH

371213

DATE	REVISION	NO.	BY	CHK.	APP.

SURVEYED BY: RSI
 DESIGNED BY: KJH
 CHECKED BY: RSI
 SCALE: NONE
 GRAPHIC SCALE:

DATE: 3/91
 DATE: 3/91

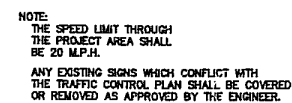
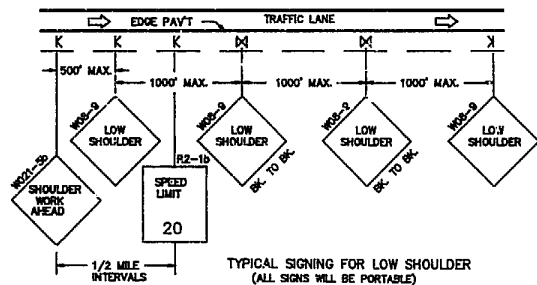
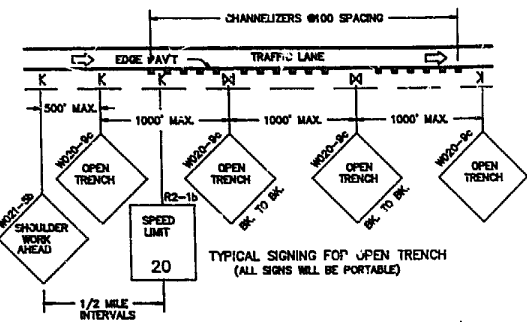
SHSC

S. H. SMITH & CO., INC.
 CONSULTING ENGINEERS—REGISTERED LAND SURVEYORS
 GEOTECHNICAL EXPLORATION—MATERIALS TESTING
 POPLAR BLUFF, MISSOURI CAPE GIRARDEAU, MISSOURI

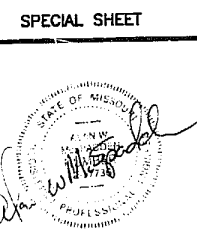
CONTROL OPERATION SHEET
 BUSINESS ROUTE 25 AT BROADWATER STREET
 MALDEN, MISSOURI

JOB NO. 190009.00
 FIELD BOOK
 SHEET 10 OF 12
 DWD. NO. 235010

D-38B



NOTE:
TRAFFIC CONTROL DEVICES IN AND AROUND THE PROJECT AREA SHALL BE USED IN CONFORMANCE TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, INCLUDING REV'S & ADD'S.



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
STANDARD PLANS

REVISED JAN. 1, 1992

STATE MO JOB NO. J040395
PROJECT STPG-M6-4101(001)
CITY DUNKLIN

FINAL PLANS

✓	NO.	DESCRIPTION
✓	203.00E	EXCAVATION & EMBANKMENT
	203.02C	UNDERGRADING
	203.10B	TABULATED EARTHWORK & SECTION DATA
	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
✓	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	203.61	DRIVEWAY TYPE I
	203.62	DRIVEWAY TYPE II
	203.63	DRIVEWAY TYPE III
	203.64	DRIVEWAY TYPE IV
	203.65	DRIVEWAY TYPE V
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	502.00M	CONCRETE PAVEMENT & BASE APPURTENANCES
	502.10E	CONCRETE SUPPORTING UNITS
	503.00J	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	604.05B	PIPE CULVERT HEADWALLS - TYPE S
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F
	604.26D	DROP INLET - TYPE G
	604.27D	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40E	PIPE COLLARS
	605.10A	CLASS A UNDERDRAINS
	606.00X	GUARD RAIL (6 SHEETS)
	606.22K	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE) (ALSO INCLUDE 606.00)
	606.23C	BRIDGE ANCHOR SECTION (THREE BEAM RAIL ON BRIDGE) (ALSO INCLUDE 606.00)
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20C	CONCRETE STEPS
✓	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
	609.15B	PAVED DITCHES
	609.40D	DRAIN BASIN, SHOULDER PAVING & FILL SLOPE AT BRIDGE ENDS
	609.60B	DITCH LINER
	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10K	BARRICADES AND FLASHER SIGNS
	613.00B	PAVEMENT REPAIR
	614.10R	CURB INLETS, GRATES & BEARING PLATES
	614.30D	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
✓	616.10M	TRAFFIC CONTROL DEVICES (3 SHEETS) (ALSO INCLUDE 903.01)
	617.00W	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.21E	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS) (FLARED WINGS) (INCL 706.35)
	703.24E	CONCRETE BOX CULVERTS, SKEW DATA (703.30) (INCL 706.35)
	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21) (3 SHTS) (FLRD WINGS) (INCL 706.35)
	703.30F	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING (INCL 706.35)
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL 706.35)
	703.50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35)
	703.51G	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35)
	703.52D	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
	703.54E	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL 706.35)
	703.56E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL 706.35)
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS) (INCL 706.35)
	703.71D	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS) (INCL 706.35)
	703.72D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS) (SQUARE) (2 SHEETS) (INCL 706.35)
	703.73D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS) (SKEWED) (2 SHEETS) (INCL 706.35)
	703.74D	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
	706.30L	REINFORCING BAR SUPPORTS
	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
✓	726.30C	CULVERT INSTALLATION METHODS
	731.00S	PRECAST MANHOLES (ALSO INCL 614.30)
	731.10K	PRECAST DROP INLETS (4 SHTS) (ALSO INCL 614.30 & 614.10)

✓	NO.	DESCRIPTION
	732.00L	FLARED END SECTION (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS)
	901.01U	POLES & APPURTENANCES-45' (3 SHEETS)
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (SEE 901.12C)
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (METERED)
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR (METERED)
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (METERED)
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG METERED)
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
		NOTE: ALSO INCLUDE 901.00 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
✓	902.00F	SIGNAL HEADS, LENSES AND MOUNTING
✓	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
✓	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
✓	902.30G	CONCRETE BASES
✓	902.40J	TUBULAR STEEL POST
✓	902.50F	DETECTORS
	902.60F	SPAN WIRE DETAILS-STEEL POST
	902.70D	SPAN WIRE DETAILS-WOOD POLE
✓	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
✓	903.01C	ALPHABETS (2 SHEETS)
	903.02Y	HIGHWAY SIGNING (7 SHEETS)
	903.03AP	SIGN MOUNTING DETAILS (5 SHEETS)
	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09C	LIGHTING SUPPORT BRACKET
	903.10T	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS) (INCL 903.03)
	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS) (INCL 903.03)
	903.60S	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS) (INCL 903.03)

NOTES:
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

DESIGN DESIGNATION
ADT 1970-1830
ADT 1993-3200
DHV = 295
D = 60%
T = 5% OF DHV
V = 10 MPH

MISSOURI STATE HIGHWAY COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT

DUNKLIN-NEW MADRID COUNTIES

ROUTE 25
PROJECT TQF-TQFG 25-1(12)

JOB NO. 10-P-25-40
FINAL PLANS

LIMITED ACCESS HIGHWAY

THIS SHALL BE A LIMITED ACCESS HIGHWAY BETWEEN STA 138+75 AND STA 361+11 EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN, OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY. THERE SHALL BE THE USUAL RIGHT OF ACCESS OVER ANY LOCATION SHOWN ON THESE PLANS EITHER AS (1) AN ENTRANCE OR (2) A PRIVATE UNDERPASS. WHEREVER AN ADJACENT OUTER ROADWAY OR SERVICE ROAD IS SHOWN, THERE SHALL BE THE USUAL RIGHT OF DIRECT ACCESS BETWEEN THE ABUTTING PROPERTY AND SUCH OUTER ROADWAY OR SERVICE ROAD (EXCEPT WHERE ACCESS IS SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING NO RIGHT OF ACCESS) AND ALONG IT TO AND FROM THE NEAREST LANE OF THE THRUWAY OR A PUBLIC HIGHWAY. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.

- BEGINNING AND ENDING OF LIMITED ACCESS.
- LIMITED ACCESS
- NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

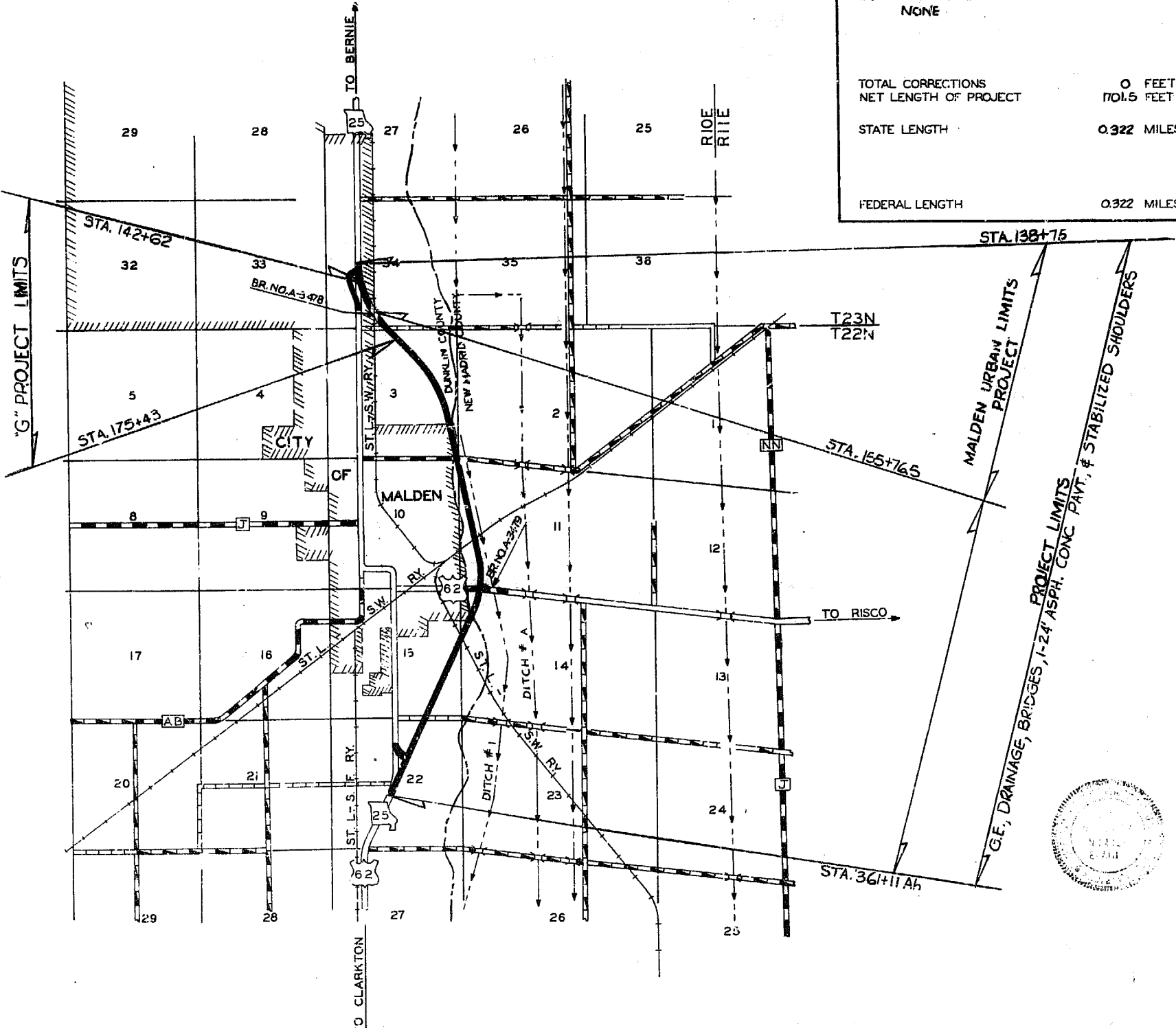
CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
- CHAIN LINK
- WOVEN WIRE
- GATE
- UTILITIES
- TELEPHONE
- POWER
- GAS
- WATER

NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

TITLE SHEET LEGEND

GRAPHIC SCALE
1/2 MILE 0 1 MILE



LENGTH OF PROJECT

END OF PROJECT STA. 155 + 76.5
BEGINNING OF PROJECT STA. 138 + 75.0

APPARENT LENGTH 1701.5 FEET

EQUATIONS AND EXCEPTIONS
NONE

TOTAL CORRECTIONS 0 FEET
NET LENGTH OF PROJECT 1701.5 FEET

STATE LENGTH 0.322 MILES

FEDERAL LENGTH 0.322 MILES

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL SECTIONS (4 SHEETS)	2
SUMMARY (SHEET)	2-A
SUMMARY (4 SHEETS)	2-B
PLAN-PROFILE	3-1/2
REFERENCE POINTS	16
SPECIAL SHEETS	18-21
LIGHTING	
SIGNALS	
SIGNING	
CULVERT SECTIONS	30-34
BRIDGE DRAWINGS	35-61
STANDARD PLANS INDEX	62
CROSS SECTIONS	1-67
COMPUTER DATA	

LENGTH OF PROJECT

END OF PROJECT STA. 361+11
BEGINNING OF PROJECT STA. 155+76.5

APPARENT LENGTH 2034.5 FEET

EQUATIONS AND EXCEPTIONS
361+05.483 - 359+26.444 (+979.04)

TOTAL CORRECTIONS 979.04 FEET
NET LENGTH OF PROJECT 2153.54 FEET

STATE LENGTH 4.075 MILES
EXCEPTION TO STATE LENGTH:
259+26.71 TO 259+35.76 (+9.05)
304+11.81 TO 304+21.21 (+9.40)
FEDERAL LENGTH - 21495.09 FEET

FEDERAL LENGTH 4.071 MILES
+ Urban Limits 0.322
TOTAL 4.393 MILES

MISSOURI STATE HIGHWAY COMMISSION

SUBMITTED

CHIEF ENGINEER

DATE

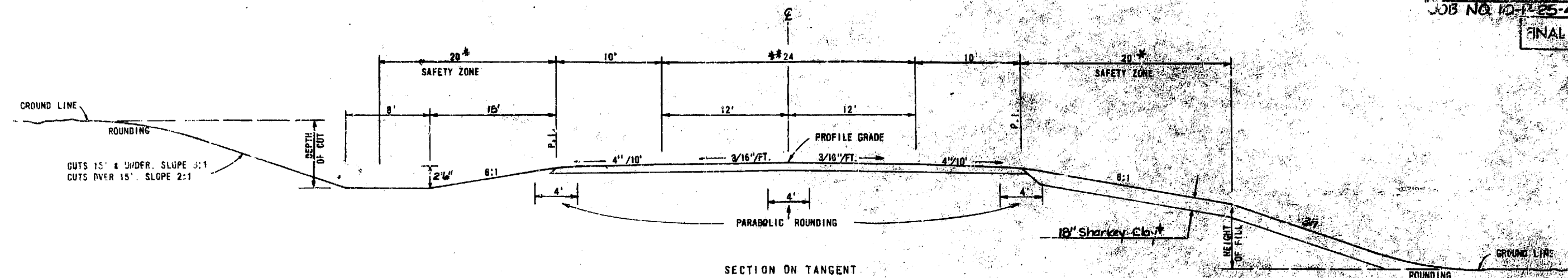
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

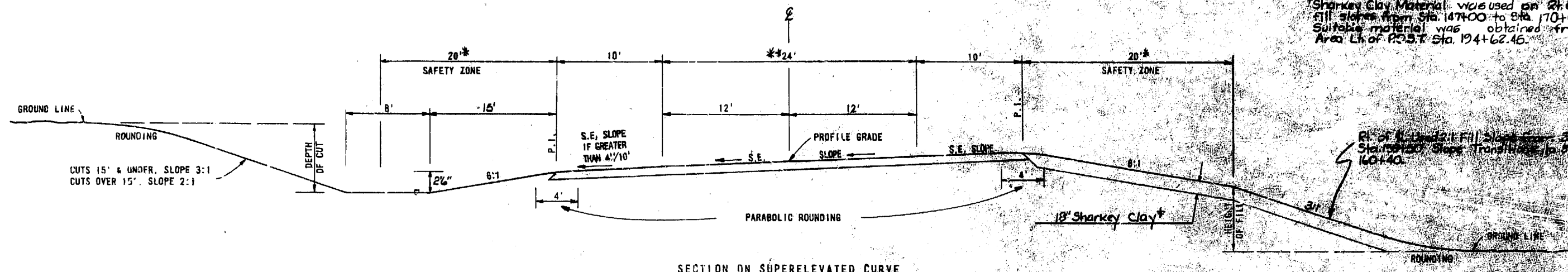
DIVISION ENGINEER

DATE

FINAL PLANS



SECTION ON TANGENT



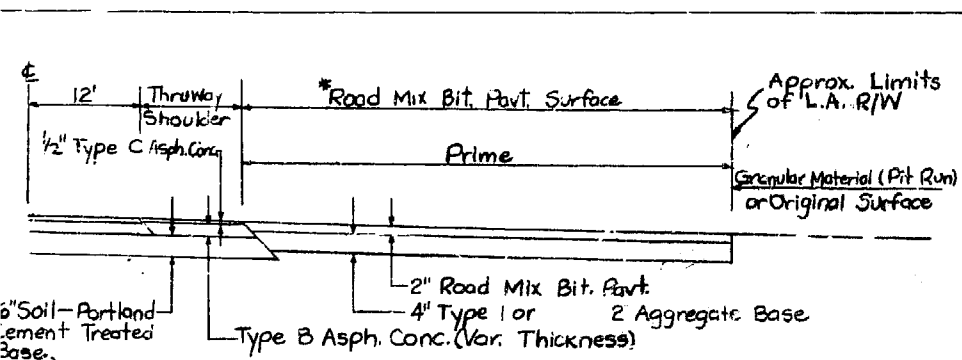
SECTION ON SUPERELEVATED CURVE

*Sharkey Clay Material was used on Rt. and Lt. fill slopes from Sta. 147+00 to Sta. 170+00. Suitable material was obtained from Borrow Area Lt. of P.O.S.T. Sta. 194+62.45.

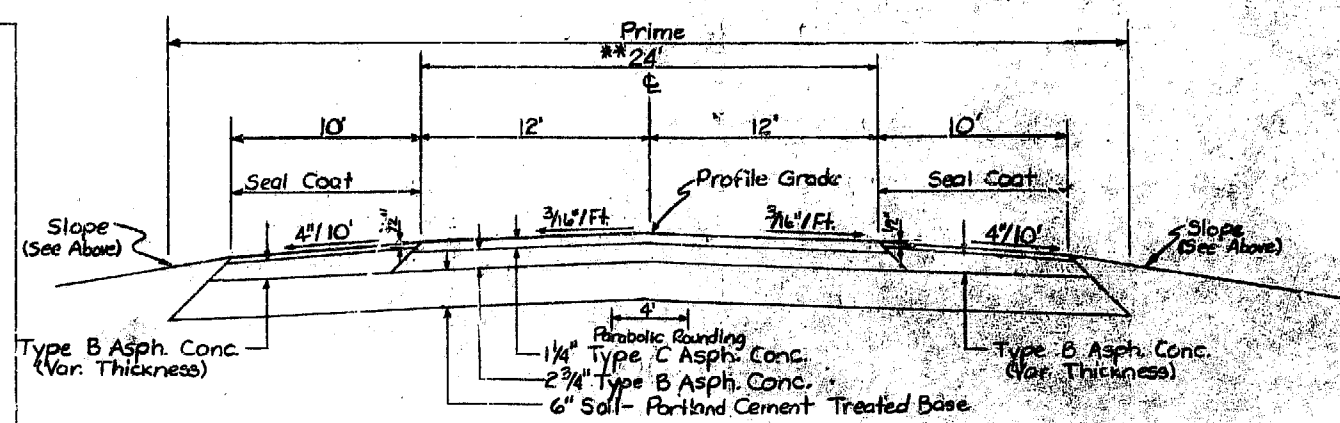
Rt. of Road 2:1 Fill Slope from Sta. 160+40 to Sta. 160+40. Slope Transition to 3:1 at Sta. 160+40.

*Omit Safety zone Back of Station 143+00. Transition from Safety Zone to 3:1 inslope and fill slopes between Sta. 141+50 and Sta. 143+00. Use 3:1 inslopes and fill slopes back of Sta. 141+50.

**Thruway Pavement Varies - 24' 42' Sta. 279+322 to Sta. 285+243 - 24' 36' Sta. 348+85 to Sta. 361+11.

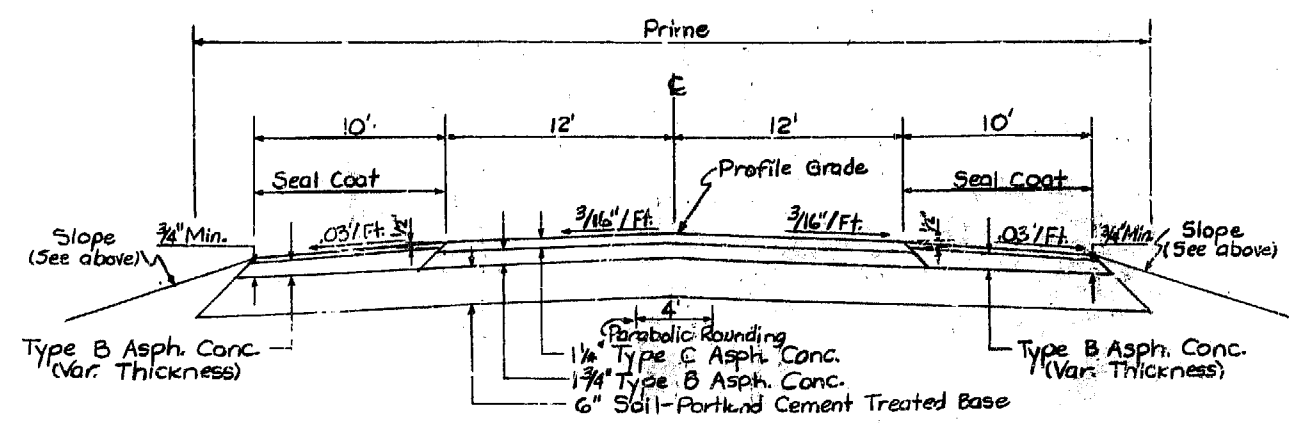
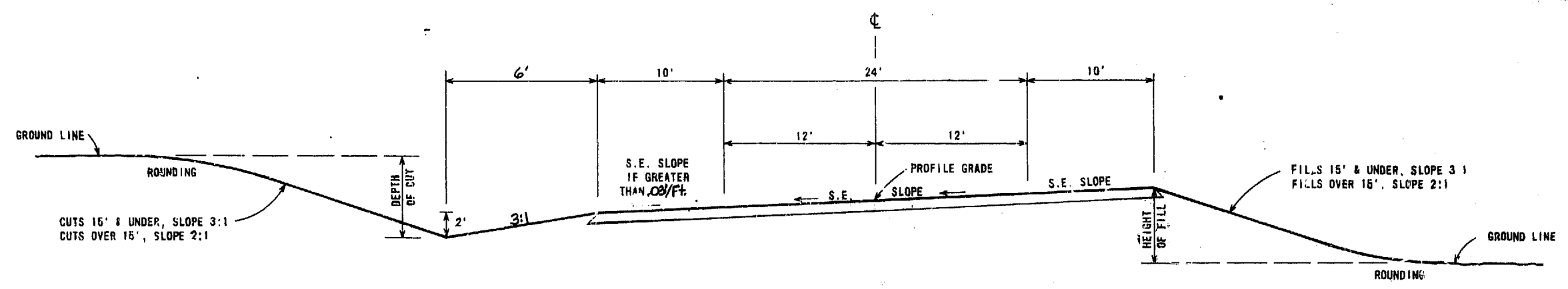
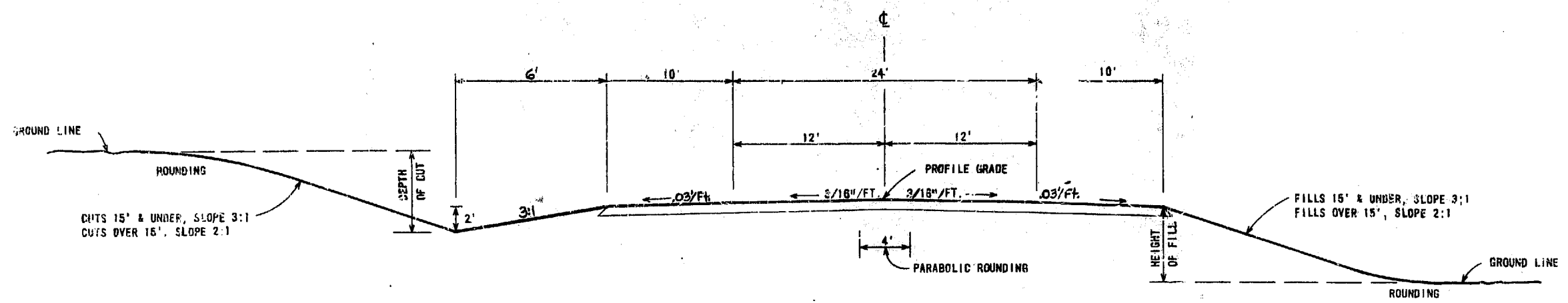


SURFACING REQUIREMENTS FOR SIDE ROAD APPROACHES (Std. 203.32)



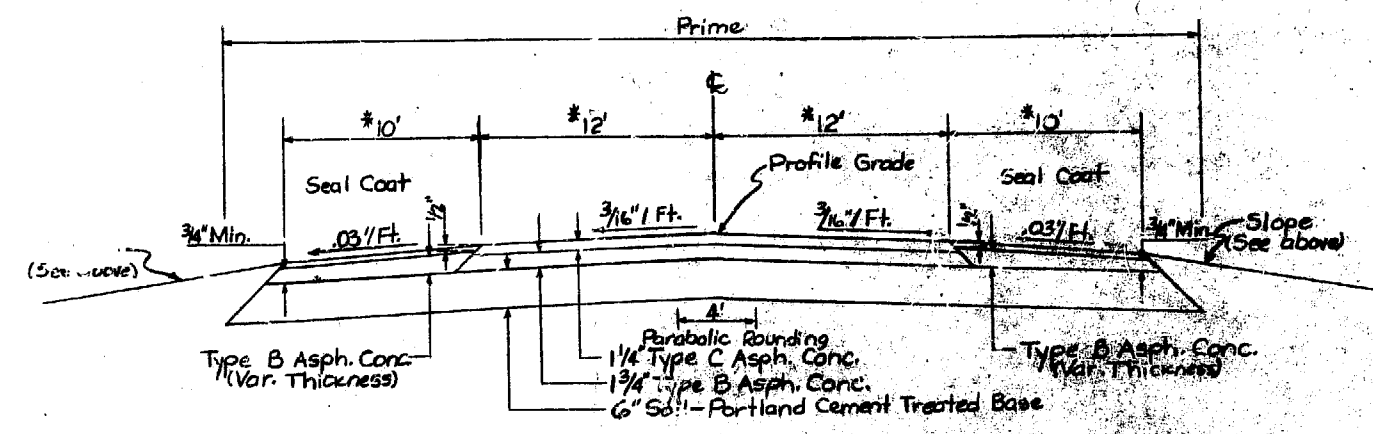
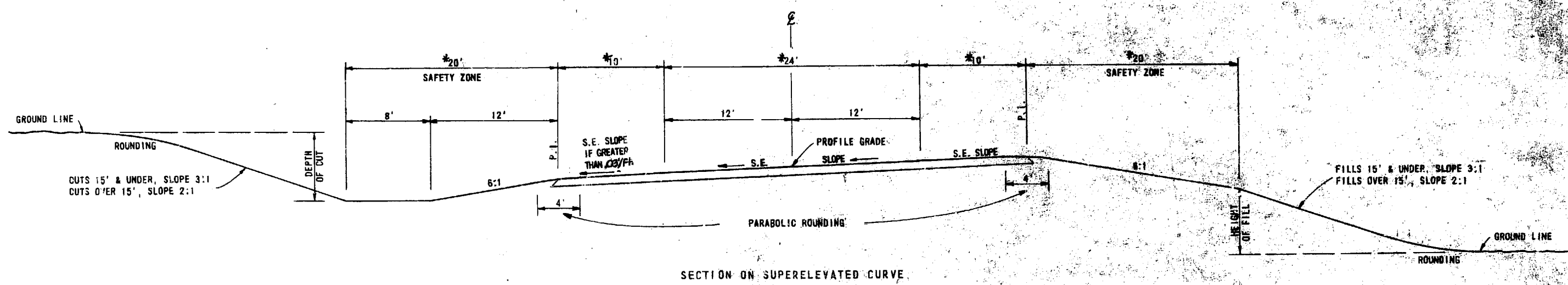
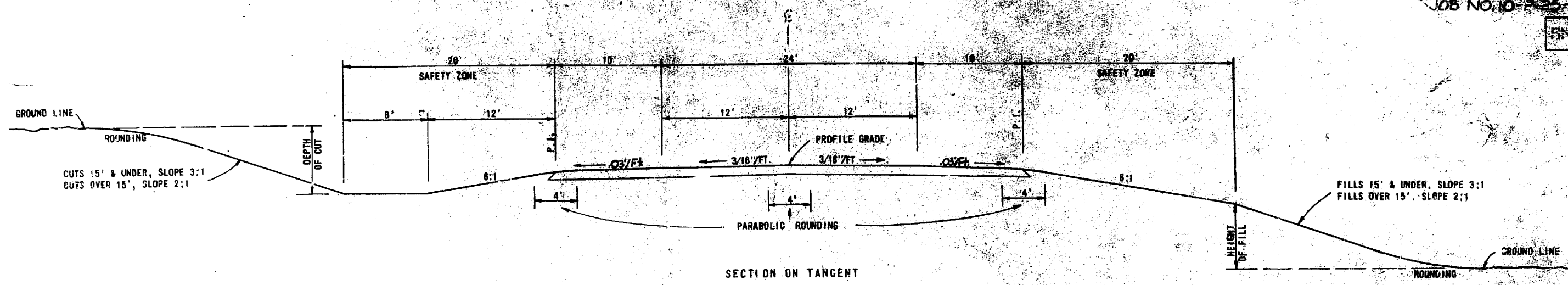
SURFACING DETAIL

TYPICAL SECTION ROUTE 25 STA. 138+75 TO STA. 361+11



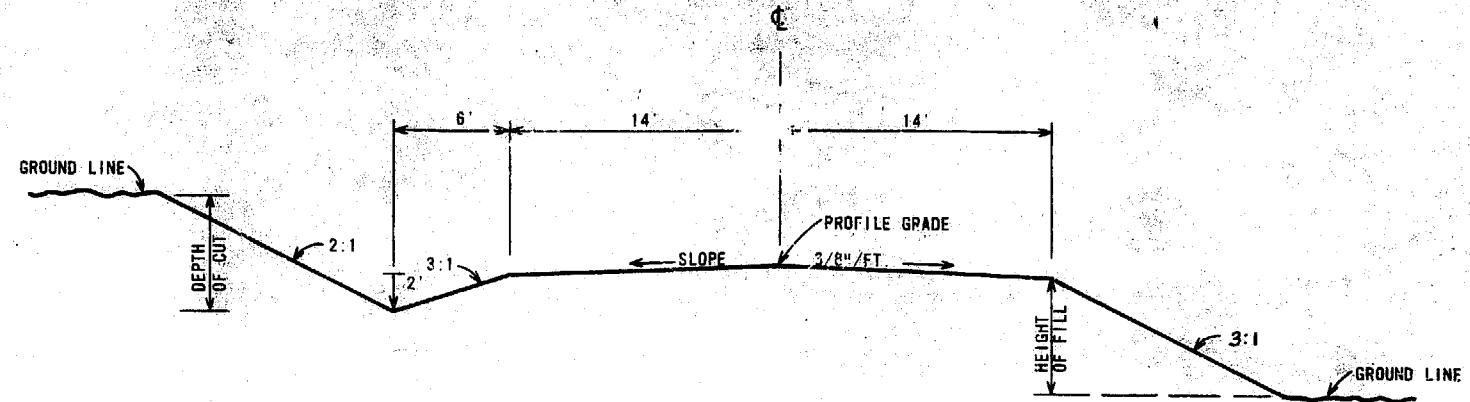
TYPICAL SECTION
ROUTE 25 CONNECTION
(STA. 139+30)

FINAL PLANS

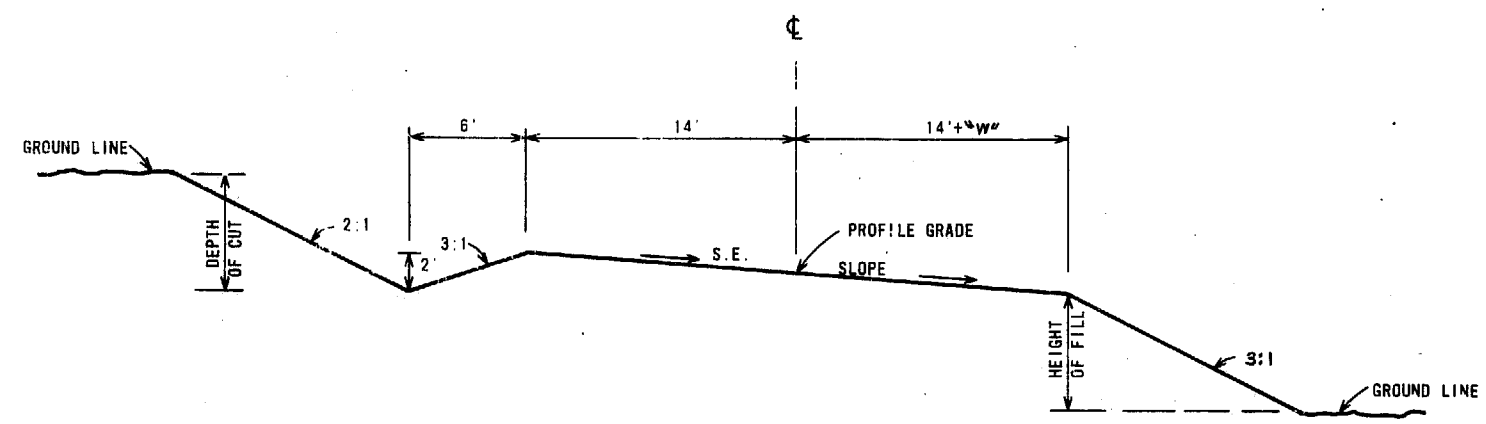


*See other dwgs. for additional Surfacing details of Route 62 Back of Sta. 30+38.9 and ahead of Sta. 39+00.

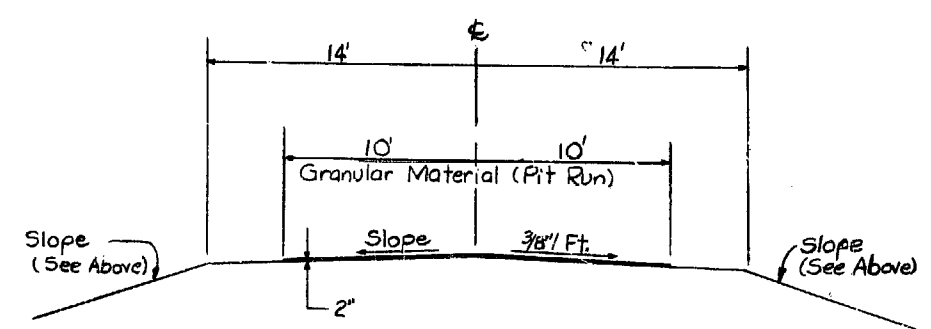
TYPICAL SECTIONS
ROUTE 62 STA. 30+38.9 TO STA. 40+00
ROUTE 25 CONNECTION (STA. 359+90)



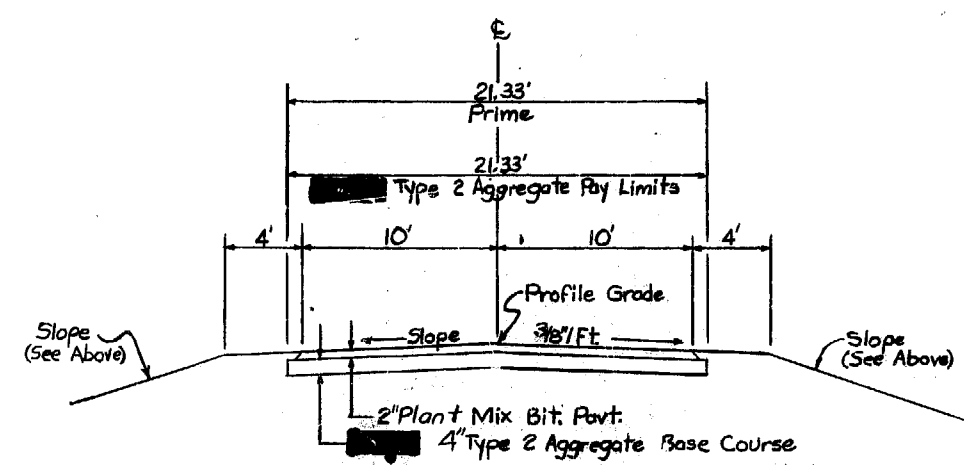
SECTION ON TANGENT



SECTION ON SUPERELEVATED CURVE



SURFACING DETAIL FOR AGGREGATE SURFACE
Outside Limits of Limited Access R/W



SURFACING DETAIL FOR PLANTMIX BIT SURFACE
Within Limits of Limited Access R/W

TYPICAL SECTION
OUTER ROADS,
RELOCATED LOCAL ROADS
AND
SIDE ROADS
STD. 20332

MISSOURI STATE HIGHWAY COMMISSION
SUMMARY OF QUANTITIES

SHEET 1 OF 1

5	MO. TQF-TQFG-25-1(12)	2A
DIST. NO.	COUNTY	ROUTE
10	DUNKLIN-NEW MADRID	25

ITEM	DESCRIPTION	UNIT	QUANTITY		ITEM	DESCRIPTION	UNIT	QUANTITY		ITEM	DESCRIPTION	UNIT	QUANTITY
1-10.10	REMOVAL OF BRIDGES	EACH	1		603-99.11	18 IN. ENCASMENT CONDUIT (CLASS III REINF. CONC. PIPE)	L.F.	34		802-40.00	TYPE 4 MULCH	ACRE	119.7
1-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1		603-99.12	24 IN. ENCASMENT CONDUIT (CLASS III REINF. CONC. PIPE)	L.F.	160		803-10.00	SODDING	SQ YD	40,761
1-10.00	CLASS A EXCAVATION	CU YD	589,748	G-407745	604-30.10	ADJUSTING HOUSE SEWER CONNECTIONS	LI FT	165		805-10.00	SPEEDING	ACRE	120.0
1-40.00	COMPACTING EMBANKMENT	CU YD	385,173	G-283733	605-10.15	8 IN. CLASS A UNPERFORATED UNDERDRAIN PIPE	LI FT	150	G-150	901-32.00	CONDUIT, 2 IN. RIGID STEEL, IN TRENCH	LI FT	360
1-80.00	COMPACTING IN CUT	CU YD	11,050		606-10.10	GUARD RAIL TYPE A	LI FT	350	G-300	901-33.00	CONDUIT, 3 IN. RIGID STEEL, IN TRENCH	LI FT	44
1-10.00	OVERHAUL (STATION)	STA YD	64,258	G-22743	605-20.00	BRIDGE ANCHOR SECTION (BRUSH CU/18)	EACH	4	G-4				
1-20.00	OVERHAUL .1/4 MILE	QT MI YD	744,430	G-541452	606-30.00	TERMINAL SECTION	EACH	4	G-4				
1-30.00	CLASS 3 EXCAVATION	CU YD	2,105	G-194	608-10.00	CONCRETE MEDIAN	SQ YD	583.4			BRIDGE DWG. NO. A-3478 AT STA. 155+29.41		
1-10.00	LINEAR GRADING CLASS 1	STATION	18.5		608-50.00	PAVED APPROACH, 6 IN.	SQ YD	92.4		206-10.00	CLASS 1 EXCAVATION	CU YD	144.5
1-20.00	LINEAR GRADING CLASS 2	STATION	8.9		609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LI FT	532	G-84	702-11.00	CAST-IN-PLACE CONCRETE PILES	LI FT	2,509
1-10.00	INTERCEPTION DITCH	100 FT	3		609-10.41	CONCRETE GUTTER TYPE A	LI FT	129		702-99.95	PILES DTS. 3 & 4	LI FT	1,050
1-10.00	MOBILIZATION	LUMP SUM	1		609-10.51	CURB AND GUTTER TYPE A	LI FT	129		703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	351.5
1-30.00	ASPHALT CEMENT (BASE WIDENING)	TON	0		609-20.32	CONCRETE CURB LOW PROFILE TYPE A	LI FT	1,520		703-40.04	CLASS B-1 CONCRETE (SUPSTR ON STEEL)	CU YD	432.6
1-40.00	MINERAL AGGREGATE (BASE WIDENING)	TON	0		609-40.10	DRAIN BASIN	EACH	1	G-1	703-80.25	STEEL REINFORCED ELASTOMERIC EXPANSION JOINT SEAL (2.5 IN.)	LI FT	150
1-00.43	TYPE 2 AGGREGATE FOR BASE (4 IN. THICK)	SQ YD	4,005	G-850	611-60.10	CONCRETE SLOPE PROTECTION	SQ YD	2,122.5	G-2122.5	706-10.10	REINFORCING STEEL (BRIDGES)	POUND	118,930
1-00.43	TYPE 2 AGGREGATE FOR BASE (4 IN. THICK)	SQ YD	8,742		612-10.30	MOVABLE BARRICADES	EACH	17		706-99.96	REINFORCING STEEL BRIDGES (EPOXY COATED)	LB	52,210
1-10.10	CEMENT	BARREL	16,601	G-1831	612-10.50	FLASHER SIGN	EACH	8		712-10.10	FABRICATED STRUCTURAL CARBON STEEL (I-BEAM)	POUND	273,250
1-10.10	SOIL	TON	39,394	G-4346	612-20.19	STANDARD CONSTRUCTION SIGNS	LUMP SUM	1		712-40.04	PAINTING (SYSTEM B OR C) GREEN	TON	138.2
1-00.00	GRAVEL MATERIAL (PIT MIX)	C. Y.	425	G-31	614-10.10	GRATES AND BEARING PLATES	POUND	6,900	G-300	714-10.00	BRIDGE RAIL (ONE TUBE)	LI FT	651
1-00.00	TEMPORARY SURFACING	CU YD	492	G-310	703-20.01	CLASS B CONCRETE (CULVERTS)	CU YD	229.1					
1-00.00	ASPHALT CEMENT (ASPH. CONC.) 65-100 PEN	TON	0		703-20.02	CLASS B CONCRETE (MISC)	CU YD	66.6	G-30		CONTINGENT ITEMS		
1-20.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	18,245	G-2156	706-10.00	REINFORCING STEEL	POUND	2,470	G-110	501.01	Bul Met P Mix (65-100)	TON	79.6
1-00.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	5,403	G-543	706-10.30	REINFORCING STEEL (CULVERT)	POUND	25,040		501.02	Min Aggr P Mix Grade C	TON	1317
1-10.00	LIQUID ASPHALT (ROAD MIX) MC 800	GALLON	0		725-02.15	15 IN. PIPE CULVERT GROUP II	LI FT	746	G-140	501.03	Asph. Cem (60-70 RA.)	TON	1212.5
1-20.00	AGGREGATE GRADATION C	TON	0		725-02.18	18 IN. PIPE CULVERT GROUP II	LI FT	344	G-62	501.04	Min Aggr. (Asph Conc.) TYPE C MIX	TON	159
1-30.00	PROCESSING (ROAD MIX)	MILE	.93	G-06	725-02.24	24 IN. PIPE CULVERT GROUP II	LI FT	150		501.05	DENSITY SAMPLES	EACH	23
1-10.10	PRIME-LIQUID ASPHALT MC 70 OR MC 30	GALLON	39,840	G-4130	725-02.30	30 IN. PIPE CULVERT GROUP II	LI FT	144					
1-20.00	SANDING PRIMER	CU YD	0		725-02.40	48 IN. PIPE CULVERT GROUP II	LI FT	124					
1-10.00	BITUMINOUS MATERIAL (SEAL COAT)	GALLON	15,620	G-1780	725-10.24	24 IN. CORRUGATED GALVANIZED METAL PIPE	LI FT	46					
1-20.22	COVER AGGREGATE GRADE 2	TON	703	G-36	726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LI FT	95					
1-10.00	FIELD LABORATORIES	LUMP SUM	1		726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LI FT	245					
1-99.00	2 IN. COPPER WATER TUBE TYPE K	L.F.	157		726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LI FT	959	G-75				
1-99.01	6 IN WATER PIPE	L.F.	822		726-13.30	30 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LI FT	1291	G-469				
1-99.02	8 IN WATER PIPE	L.F.	92		728-10.00	RELATD PIPE	LI FT	36					
1-99.05	FITTINGS	POUND	980		732-00.15	15 IN. FLARED END SECTION	EACH	2					
1-99.06	RELOCATING GATE VALVES	EACH	1		732-00.15	18 IN. FLARED END SECTION	EACH	3					

INCL-23162.4 ROUNDING
UN ROUNDED - 5116.4 = DR. 2

PIPE CULVERTS GROUP II AND APPROACHES

Sheet	Station	Location	Type	Span	Sq. Ft.	Remarks	15' Height	Type 2	Remarks
3	139+15	Lt.	C.E.	---	---	No Pipe - Included Shld. Surf. Sta. 138+75 to Sta. 142+22.5	---	---	---
3	140+72	Lt.	C.E.	---	---	No Pipe	---	---	---
3	142+20	Lt.	C.E.	---	---	No Pipe	---	---	---
3	144+15	Lt.	PE.	---	---	No Pipe	---	---	---
3	146+20	Lt.	PE.	---	---	No Pipe	---	---	---
3	146+80	Lt.	PE.	---	---	No Pipe	---	---	---
3	148+20	Lt.	PE.	---	---	No Pipe	---	---	---
4	142+44	Lt.	S.R.	17'0" Dia.	20330	4%	42	3	See Sp. Sh. #3
4	142+44	Rt.	S.R.	17'0" Dia.	20330	4%	54	1	See Sp. Sh. #3
4	144+80	Rt.	S.R.	27'0" Dia.	20330	5%	---	---	No Pipe
4	146+16	Lt.	S.R.	27'0" Dia.	20330	1%	84	1	See Sp. Sh. #3
4	146+16	Rt.	S.R.	27'0" Dia.	20330	8%	98	1	See Sp. Sh. #3
4	150+35	Rt.	PE.	17'0" Dia.	20330	0%	46	1	Used 12' Shld. Radii
4	151+70	Lt.	PE.	---	---	See Sp. Sh. #2	---	---	---
TOTALS				---	498	---	---	774.7	---

REINFORCED CONCRETE PIPE CULVERTS CLASS III

Sheet	Station	Loc.	Span	15'	18'	24'	30'	Exc.	15'	18'	24'	Shld.	Type	S. Hd. Wt.	Remarks
3	144+80	E	---	---	---	---	---	---	---	---	---	---	---	---	---
3	146+00	E	55' Dia.	---	---	---	---	---	---	---	---	---	---	---	---
4	142+68	E	15' Dia.	---	---	---	---	---	---	---	---	---	---	---	---
4	147+75	E	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTALS				55	113	75	281	172	2	2	1	3.0	110	1300	---

CONCRETE CURB

Sheet	Station	Station	Loc.	Lin. Ft.	Lin. Ft.	Remarks
3	139+15	140+22	Lt.	136	---	See Sp. Sh. #2
3	140+22	142+20	Lt.	148	---	---
3	142+20	143+16	Lt.	144	---	---
4	139+1	---	Rt.	463	---	See Sp. Sh. #1
4	139+1	---	Lt.	344	---	---
4	0+38.56	2+15.16	B/L "B"	157	---	---
TOTALS				1428	954	---

DRAIN BASINS AND UNDERDRAIN PIPE

Sheet	Station	Loc.	Each	Lin. Ft.	C.Y.	Remarks
3	154+67	Lt.	1	150	52	Inc. 1-Hr. & 1-57" Bend
TOTALS				1	150	52

SODDING

Sheet	Station	Station	Loc.	Sq. Ft.	Remarks
3	147+00	155+24	Lt. inslp	5657	Area of Br. Spillfill adj. to Conc. Slope Protection
3	147+00	155+24	Rt. inslp	8506	---
4	139+	CONN.	Rt.	629	Curbed Island, See Sp. Sh. #1
4	139	CONN.	Lt.	497	---
TOTAL				15289	---

SEEDING AND MULCHING

Sheet	Sq. Ft.	Sq. Ft.
3	185,007	145,007
4	76,839	4,839
TOTAL		261,846
ACRES	6.0	6.0

GUARD RAIL

Sheet	Station	Loc.	Lin. Ft.	Each	Each	Remarks
3	140+14	Rt.	25	---	---	Striped, close st. & R/W
3	145+73	Rt.	25	---	---	---
3	154+1	Lt.	75	1	1	Install @ Br. End
3	155+1	Rt.	75	1	1	---
TOTALS				200	2	2

RIGID STEEL CONDUIT IN TRENCH

Sheet	Station	Location	2" Cond. Lin.Ft.	3" Cond. Lin.Ft.
3	✓ 138+90	Rte. 25, 20.5' Lt. to 23.5' Rt.	✓	✓ 44
4	✓ 151+30	B/L "A", 19' Lt. to 7' Rt.	✓ 26	✓
4	✓ 1+70	B/L "B", 19' Lt. to 5' Rt.	✓ 24	✓
TOTALS			✓ 50	✓ 44

MOVABLE BARRICADES

Total of 5

STANDARD CONSTRUCTION SIGNS

Lump Sum 1

REMOVAL OF IMPROVEMENTS

Lump Sum 1

FIELD LABORATORIES

Lump Sum 1

COMPACTING EMBANKMENT

Sheet	Station	C.Y.
3	138+15	---
3	142+62	573
4	155+24	82,182
4	139+54	---
4	153+00	4724
TOTAL		87479

FLASHER SIGNS

	Flasher
	Signs
Sheet	Each
3	12
<hr/>	
TOTAL	2

SUMMARY OF QUANTITIES

PIB: CULVEPTS GROUP II CULPBOUCHES

Sheet	Station	Location	Type	Sewer	S.P.	% Grade	Pipe					C.I. Exc.	Overfill Height	Type 2 Asst. Base Co. Tank S.Y.	Remarks
							15'	18'	24'	30'	48'				
							Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	C.Y.	Ft.		
5	2170	Reloc. Loc Rd Lt.	S.R.	---	203.32	---									No Pipe
	172+00	Lt.	S.R.	10° Bk.	203.32	1.27%		✓62					4	850.5	
	177+45	Lt.	FE.	---	203.32	1%			✓31				1		
	177+45	Rt.	FE.	---	203.32	1%		✓34					2		
7	197+50	Lt.	S.E.	---	203.32	10%									No Pipe
	197+50	Rt.	FE.	---	203.32	10%		✓38					2		
8	225+27	Lt.	S.P.	12° 45' Ah.	203.32	3.4%								201.8	No Pipe
	225+27	Rt.	S.R.	12° 45' Bk.	---	1.2%								827.3	No Pipe, See Sp. Sh. # 5
9	254+18	Lt.	FE.	20° Bk.	203.32	5%									No Pipe
	254+18	Rt.	FE.	20° Ah.	203.32	5%									No Pipe
	262+74	Lt.	FE.	13° Ah.	203.32	10%	✓38						2		
	262+74	Rt.	FE.	13° Bk.	203.32	6%	✓34						1		
10	27+55	Route 62 Rt.	C.E.	---	---	---									See Rev. Appr. & Sp. Sh. # 7
	28+33	Route 62 Rt.	C.E.	---	---	---									See Rev. Appr. & Sp. Sh. # 7
	29+30	Route 62 Rt.	FE.	---	203.30	3%		✓34					1		Used 12' Shldr. Rd.
	34+95	Route 62 Lt.	FE.	15° Bk.	203.32	6%			✓74				5		Includes 1~5° Bend, See Cully Sec.
	34+16	Route 62 Rt.	FE.	25° Ah.	203.32	0%		✓66	✓32				6		Includes 1~5° Bend, See Cully Sec.
	34+06	By-Pass &	---	20° RA	---	---			✓62	✓8			5		
	34+17	By-Pass &	---	20° RA	---	---			✓62	✓8			5		
	35+104	Route 62 near Rt.	---	---	---	---		✓42	✓21				5		Includes 1~10° Bend, See Cully Sec.
	35+11	Route 62	Rt.	FE.	---	203.32	7%	✓40					2		
11	246+03	Lt.	FE.	---	203.32	9%							1		No Pipe
	246+00	Rt.	FE.	---	203.32	4%	✓32								
	246+45	Lt.	FE.	---	203.32	9%	✓34						2		
	246+55	Rt.	FE.	20° Bk.	203.32	5%	✓34						1		
	246+60	Lt.	FE.	20° Bk.	203.32	5%		✓34					1		
	246+70	Rt.	FE.	15° Ah.	203.32	5%		✓34					1		
12	246+70	Lt.	FE.	---	203.32	1%		✓32					1		
	246+70	Rt.	FE.	---	203.32	6%		✓32					1		
	246+90	Rt.	FE.	---	203.32	2%		✓32					1		
	247+43	Lt.	S.R.	24° 25' Ah.	203.32	0.9%								406.4	No Pipe
	247+43	Rt.	S.R.	24° 25' Ah.	203.32	0.3%								406.4	No Pipe
13	257+15	Route 64 Lt.	FE.	20° Bk.	203.30	3%									No Pipe
	257+15	Route 64 Lt.	S.R.	---	203.32	2%								132.8	No Pipe, Bit. Put Under 64' Lt.
	257+15	Route 64 Rt.	S.R.	---	203.30	2%									No Pipe
	266+15	Route 65 Rt.	S.R.	20° 1h.	203.32	0.8%		✓46					1	404.7	
13	266+10	By-Pass &	---	---	---	---	✓40						2		
	266+10	By-Pass &	---	---	---	---	✓36						2		
	TOTALS						248	344	150	144	124	162		3229.9	

GUARD RAIL

Sheet	Station	Loc.	W.D. Ft.	Each	Sections	Remarks
3	158+	Lt.	75	1	1	Install @ Br. End
	158+	Rt.	75	1	1	" " "
	TOTALS		150	2	2	

CONCRETE SLOPE PROTECTION

Sheet	Sta.	S.Y.	Remarks
3	155+	1029.7	Br. End Spillfill Slopes
	158+	1029.8	Br. End Spillfill Slopes
TOTAL		2122.5	

SODDING

Sheet	Sta.	Sta.	Loc.	Type	Depth	Sd	Remarks
3	158+100	160+00	Lt.	inslope	3.892		inslope
	158+100	160+00	Rt.	inslope	2046		" " " " "
5	160+100	170+00	Lt.	inslope	10501		
	160+100	170+00	Rt.	inslope	9200		
	186+00		Lt.	21' x 80'	187		Outlet Spillway
7	207+95	208+05	Rt.	B.F.B.	2'	46	611 #311 Slopes
		TOTAL				25472	

SEEDING AND MULCHING

Sheet	Seed		Type 4 Mulch		Remarks
	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	
5	✓	27854	✓	27054	
7		278179	✓	278179	
7		2525109	✓	2525109	Borrow Areas, See Sp. Sh. #4
8		224618	✓	224618	
9		241867	✓	241867	
10		135,066	✓	135,066	Incl. By-Pass and Obliteration
11		273,661	✓	273,661	
		332,802	✓	332,802	Borrow Area, See Sp. Sh. #8
12		267,275	✓	267,275	
13		391,703	✓	391,703	Incl. By-Pass and Obliteration
14		16,880	✓	16,880	" " " " " "
TOTAL		949,659		949,659	
ACRES		114.0		113.7	

ENCASEMENT CONDUIT

		24"		
		C.M. RCP		
Sheet	Sta.	Loc.	Lin.Ft.	Remarks
✓ 27	✓ 279+30	\$	✓ 130	See CULV. SECS.
-	279+95	£	130	" " "
TOTAL			260	

COPPER WATER TUBE

				2 nd Type K
--	--	--	--	------------------------

SUMMARY OF QUANTITIES

(Outside Malden Urban Vicinity)

SHEET 2 OF 2

5	MO.	70F-76FG-25-1(12)	E-B
DIST. NO.	COUNTY	ROUTE	
10	DUNKLIN-NEW MADRID	25	

CORRUGATED GALVANIZED METAL PIPE

Sheet	Station	Loc.	Lin. Ft.	C.Y.	Remarks
10	26+20.4	Lt.	46	31	Incl. 1-30' Bore, See Curb Sec. & Br. Plans
TOTALS			46	31	

CONCRETE BOX CULVERTS

Sheet	Station	Loc.	Sid.	Winglet	Slapen	Size	Length	Exc.	Section	Design	Section	GLE	Reinf.	CIS	
							Lin. Ft.			Ft.	Lin. Ft.	Conc.	Steel	Exc.	
9	25+67	E	70x30	2:1	4'x28"	90	—	A	A	4	45	1549	1794	84	
TOTALS										A	45	1549	310	3570	84

COMPACTING EMBANKMENT

Sheet	Station	Loc.	C.Y.	Remarks
3	158+09	Rt. 25	—	
5	170+85	"	27132	
5	176+43	"	4421	
5	190+35	"	2804	
7	197+50	"	—	
7	217+60	"	2549	
7	227+65	"	5734	
8	246+00	"	7107	
8	266+00	"	11401	
9	278+22	"	12744	
10	26+773	Rt. 62	—	
	31+68	"	605	
	32+00	"	—	
	40+00	"	2328	
	28+504	Rt. 62	—	
	43+20	Rt. 62	1566	Incl. Emb. Comp. with 10% Excess
9	278+22	Rt. 25	—	
11	230+00	"	8862	
	236+00	"	1845	
	266+00	"	6656	
11	312+35	"	3600	
12	344+30	"	1023	
12	344+30	"	3114	
13	363+00	"	5566	
13	364+11	"	1028	
13	368+08	Rt. 25 Conn.	—	
	351+00	Rt. 25 Conn.	1733	
15	342+50	Rt. 25	—	
	350+00	Rt. 25	837	
	354+00	Rt. 25	—	
	365+53	Rt. 25	1047	Incl. Emb. Comp. with 10% Excess
TOTAL			297,694	

PAVED APPROACHES - CONCRETE CURB & GUTTER

Sheet	Station	Loc.	Exc.	Remarks
10	26+75.8	Rt. 25	153	See Sp. Sh. #7
	27+28.5	Rt. 25	46.7	" " " "
	27+18.5	Rt. 25	30	" " " "
	28+11.5	Rt. 25	35.7	" " " "
	28+59.9	Rt. 25	46	" " " "
TOTALS			824	129

CONCRETE BOX CULVERT (Bridge Design A-3479)

Sheet	Station	Loc.	Exc.	Reinf.	C.I.S.	Remarks
10	35+78	E	198.1	21450	776	Incl. Removal of Br. 1-143
TOTAL			198.1	21450	776	* See X-See Sheet # 29

CONCRETE CURB AND CONCRETE MEDIAN

Sheet	Station	Loc.	Exc.	Remarks
8	228+14.0	Rt. 25	134	See Sp. Sh. #5
	225+1	Rt. 25	133.7	" " " "
	21+46.40	Rt. 25	—	" " " "
9	27+22.2	Rt. 25	127	See Sp. Sh. #6
	277+1	Rt. 25	103.1	" " " "
	278+1	Rt. 25	130.3	" " " "
	32+28.9	Rt. 25	—	" " " "
10	26+75.8	Rt. 25	82	See Sp. Sh. #7
	27+69	Rt. 25	13	" " " "
	28+24	Rt. 25	4	" " " "
	28+42	Rt. 25	5	" " " "
13	358+00	Rt. 25	143	See Sp. Sh. #9
	352+1	Rt. 25	216.3	" " " "
TOTALS			104	566

RIGID STEEL CONDUIT IN TRENCH

Sheet	Station	Location	Exc.	Remarks
9	276+20	Route 25-32 1/2 to 42 1/2	74	
	30+52	Route 62-23 1/2 to 28 1/2	46	
	27+25	Route 25-42 1/2 to 48 1/2	74	
13	358+30	Route 25-35 1/2 to 32 1/2	68	
	302+25	Route 25 Conn. 23 1/2 to 25 1/2	48	
TOTAL			310	

CONCRETE GUTTER

Sheet	Station	Loc.	Exc.	Remarks
8	31+13.1	Rt. 25	10	Curb Drain, See Sp. Sh. #5
9	276+1	Rt. 25	43	Curb Drain, See Sp. Sh. #6
9	32+1	Rt. 25	32	" " " "
10	29+1	Rt. 25	19	See Sp. Sh. #7
13	358+00	Rt. 25	26	See Sp. Sh. #9
TOTAL			129	

RELAY PIPE AND APPROACHES

Sheet	Station	Location	Type	Exc.	Remarks
13	360+35	Outer Rd. Lt.	203.30	2%	Used Pipe from Stn. 36+400 By-Prod
TOTAL				36	

INTERCEPTION DITCH

Sheet	Station	Loc.	Exc.	Remarks
7	205+00	Rt. 25	3.4	Levee
TOTAL			3.4	

FLASHER SIGNS

Sheet	Flasher Signs
10	2
13	3
14	1
TOTAL	6

MOVABLE BARRICADES

Total of 12

REMOVAL OF IMPROVEMENTS

Lump Sum 1

STANDARD CONSTRUCTION SIGNS

Lump Sum 1

SUMMARY OF QUANTITIES

(Quantities Within Malden Urban
Vicinity Limits)
SHEET NO. 2 OF 2

5	MO.	TQF-TQFG-25-1(12)	2-B
DIST. NO.	COUNTY		ROUTE
10	DUNKLIN-NEW MADRID		25

CAST IRON WATER PIPE AND FITTINGS						
Sheet	Station	Location	Fittings		Wright lbs	Remarks
			6" Lin. Ft.	8" Lin. Ft.		
25	137+60	138+13	76' Rt. to 30' Rt.	92		Connect to Exist 8" C.I.P.
✓	137+60	76' Rt.			8" 90° Bend	110
✓	138+07.3	75' Rt.			8" 90° Bend	110
✓	138+11.7	71' Rt.			8" 90° Bend	110
✓	138+11.8	67' Rt.			8" 90° Bend	110
✓	138+11.9	63' Rt.			8" 90° Bend	110
✓	141+00	149+25	91' Lt. to 107' Lt.	806		Connect to Exist 6" C.I.P.
✓	141+00	99' Lt.			6" 11 1/2" Bend	75
✓	143+60	67' Lt.			6" 90° Tee	125
✓	147+00	70' Lt.			6" 11 1/2" Bend	75
✓	149+20	106' Lt.			6" 90° Tee	125
✓	149+25	107' Lt.			6" Plug	30
TOTAL			806	92		980

RELOCATING HYDRANTS

Relocating Water Main Hydrants 6"						
Sheet	Station	Location	Each	Lin. Ft.	Remarks	
25	143+60	73' Lt.	1	7	Relocated from Sta 145+38 - 6' Rt.	
✓	149+20	112' Lt.	1	4	" " Sta 149+09 - 124' Rt.	
✓	149+20	47' Rt.	1	5	" " Sta 142+76 - 35' Rt. Rte 25 Conn.	
TOTALS			3	16		

RELOCATING GATE VALVES

Sheet	Station	Location	Each	Remarks
25	149+20	108' Lt.	1	Relocated from Sta 149+12 - 120' Rt.
TOTAL			1	

RELOCATING SERVICE CONNECTIONS

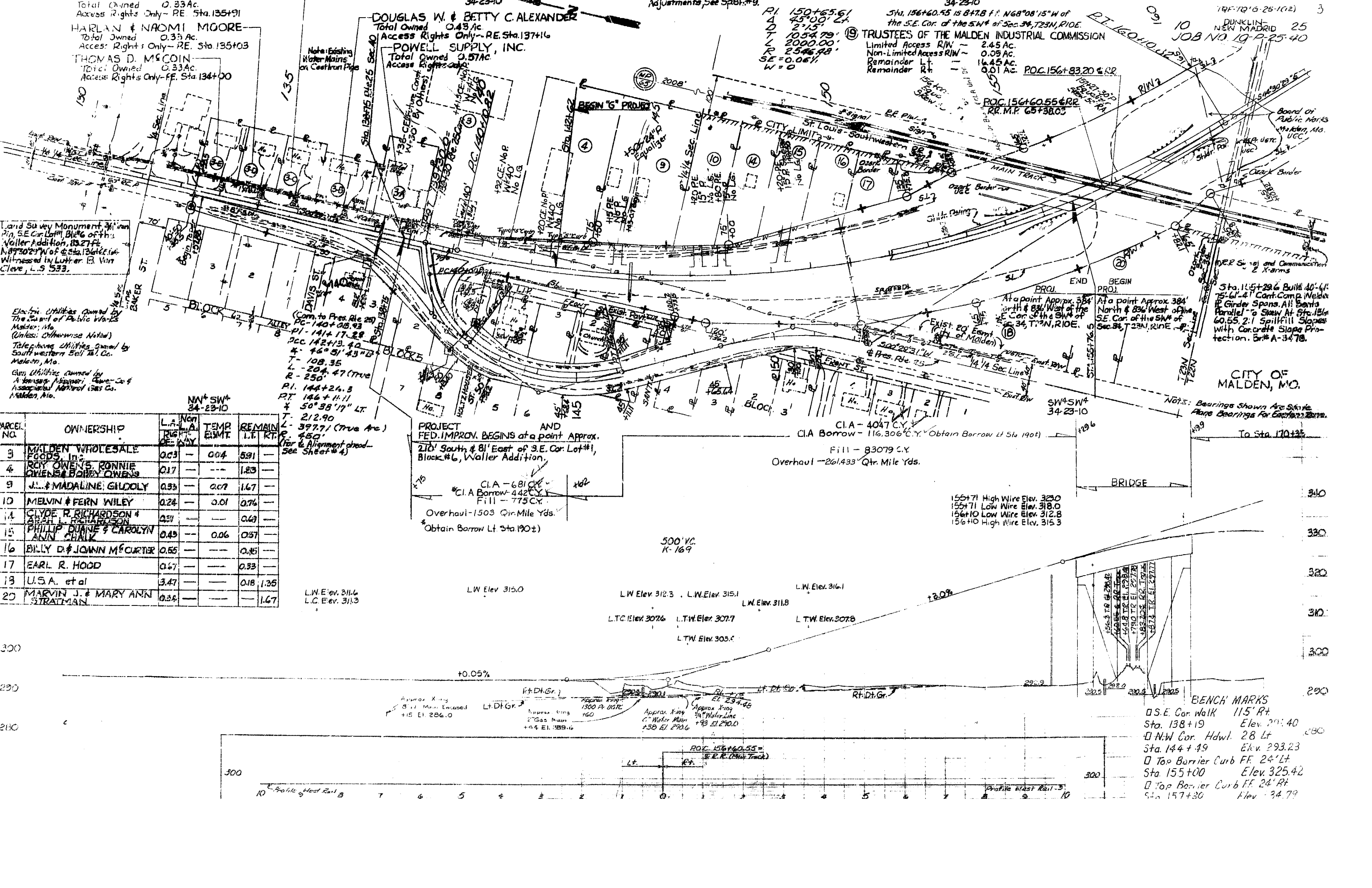
Sheet	Station	Location	Each	Remarks
25	144+30	Lt.	1	
✓	145+15	Lt.	1	
✓	145+20	Lt.	1	
✓	145+15	Lt.	1	
✓	145+20	Lt.	1	
✓	145+25	Lt.	1	U.P. Meter
✓	146+55	Lt.	1	
TOTAL			7	

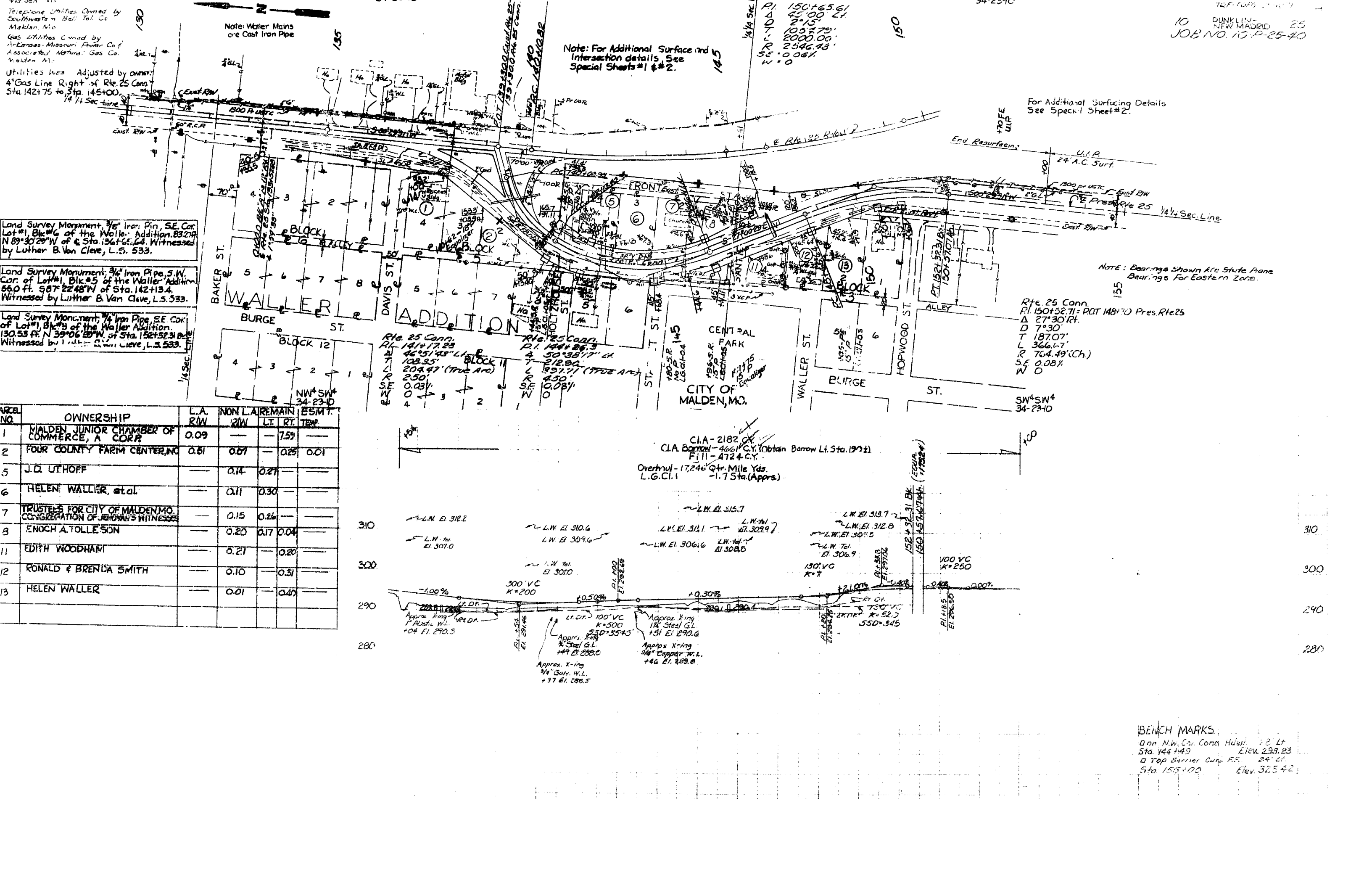
ENCASEMENT FOR WATER LINES

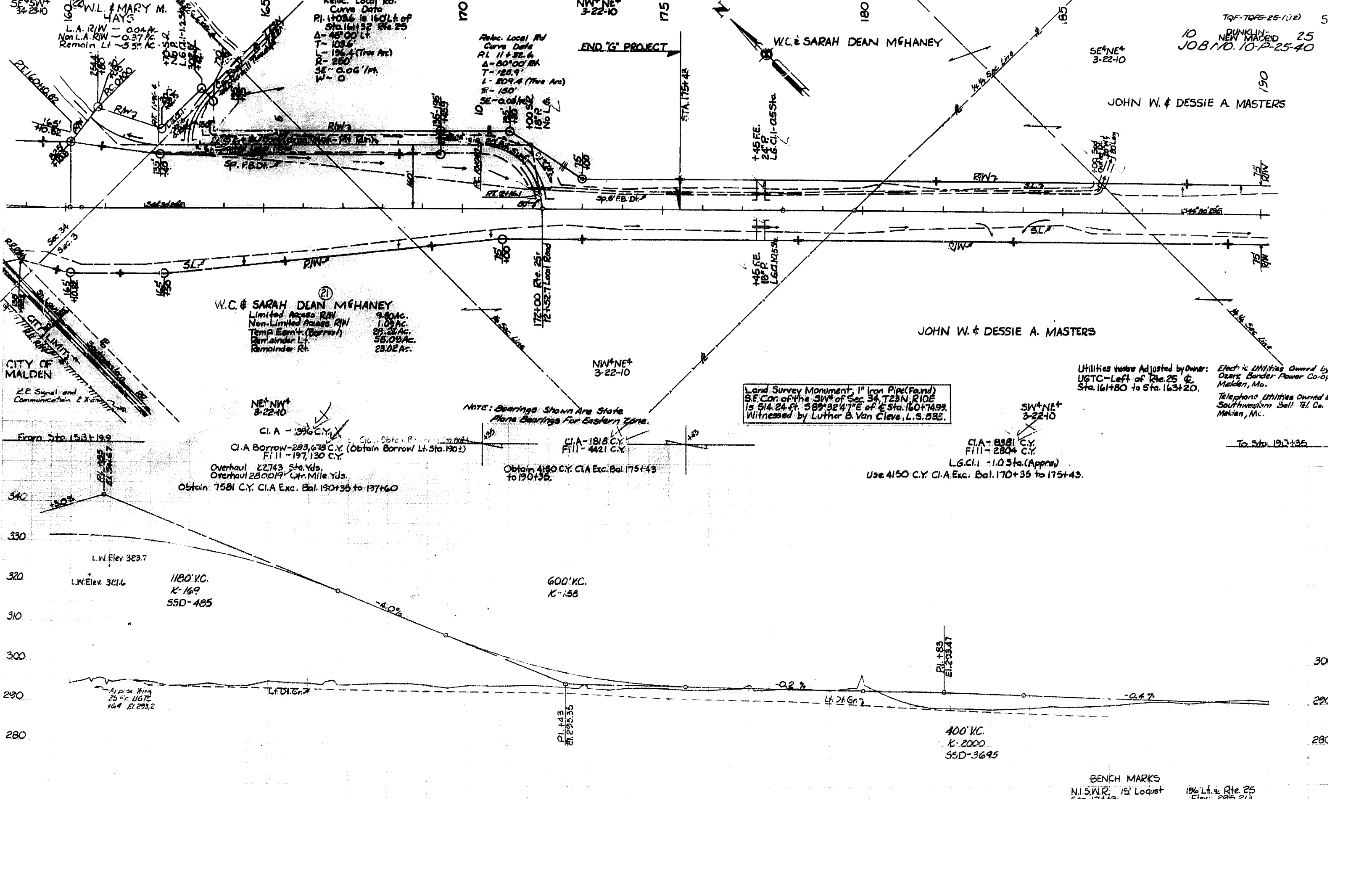
Encasement Conduit 18" S. III R.C.P.				
Sheet	Station	Location	Lin. Ft.	Remarks
25	138+12	27' Rt. to 61' Rt.	34	
TOTAL			34	

ADJUSTING HOUSE SEWER CONNECTIONS

Sheet	Station	Location	Lin. Ft.	Remarks
25	140+35	Lt.	64	
✓	140+35	Lt.	101	
TOTAL			165	







TQF-TQFS-25-1(12) 5
10 DUNKLIN- 25
NEW MADEID
JOB NO. 10-P-25-40

W.C. & MARY M. HAYS
L.A. R/W - 0.04 A.
Non L.A. R/W - 0.37 A.
Remain Lt - 5.5 A.
K - 109.6
L - 196.4 (True Arc)
R - 250
SE - 0.06 / Ft.
W - 0

Reloc. Local Rd
Curve Data
PI 11+32.6
Δ - 80°00'00"
T - 120.9'
L - 209.4 (True Arc)
R - 250
SE - 0.06 / Ft.
W - 0

END "G" PROJECT
STA 175+43

W.C. & SARAH DEAN MCHANEY
+45 FE.
24" P.
L.G. C.I. - 0.5 Sta.

SE 1/4 NE 1/4
3-22-10

JOHN W. & DESSIE A. MASTERS

W.C. & SARAH DEAN MCHANEY
Limited Access R/W
Non-Limited Access R/W
Temp Easmt (Borrow)
Remainder Lt.
Remainder Rt.
9.80 AC.
1.05 AC.
25.28 AC.
55.08 AC.
23.02 AC.

JOHN W. & DESSIE A. MASTERS

Utilities were Adjusted by Owner:
UGTC-Left of Rte. 25 & Sta. 161+80 to Sta. 163+20.
Electric Utilities Owned by
Ozark Border Power Co. of
Malden, Mo.
Telephones Utilities Owned &
Southwestern Bell Tel. Co.
Malden, Mo.

Land Survey Monument, 1" Iron Pipe (Found)
S.E. Cor. of the 3W 1/4 of Sec. 34, T23N, R10E
is 514.24 ft. 58°32'47" E of Sta. 160+74.99.
Witnessed by Luther B. Van Cleave, L.S. 533.

NOTE: Bearings Shown Are State
Plane Bearings For Eastern Zone.

NE 1/4 NW 1/4
3-22-10
C.I.A. - 1396 C.Y.
C.I.A. Borrow - 283,678 C.Y. (Obtain Borrow Lt. Sta. 190+)
Fill - 197,130 C.Y.
Overhaul 22,743 Sta. Yds.
Overhaul 28,001 1/2 Ltr. Mile Yds.
Obtain 7581 C.Y. C.I.A. Exc. Bal. 190+35 to 197+60

C.I.A. - 1818 C.Y.
Fill - 4421 C.Y.
Obtain 4150 C.Y. C.I.A. Exc. Bal. 175+43 to 190+35.

SW 1/4 NE 1/4
3-22-10
C.I.A. - 8381 C.Y.
Fill - 2804 C.Y.
L.G. C.I. - 1.0 Sta. (Approx)
Use 4150 C.Y. C.I.A. Exc. Bal. 170+35 to 175+43.

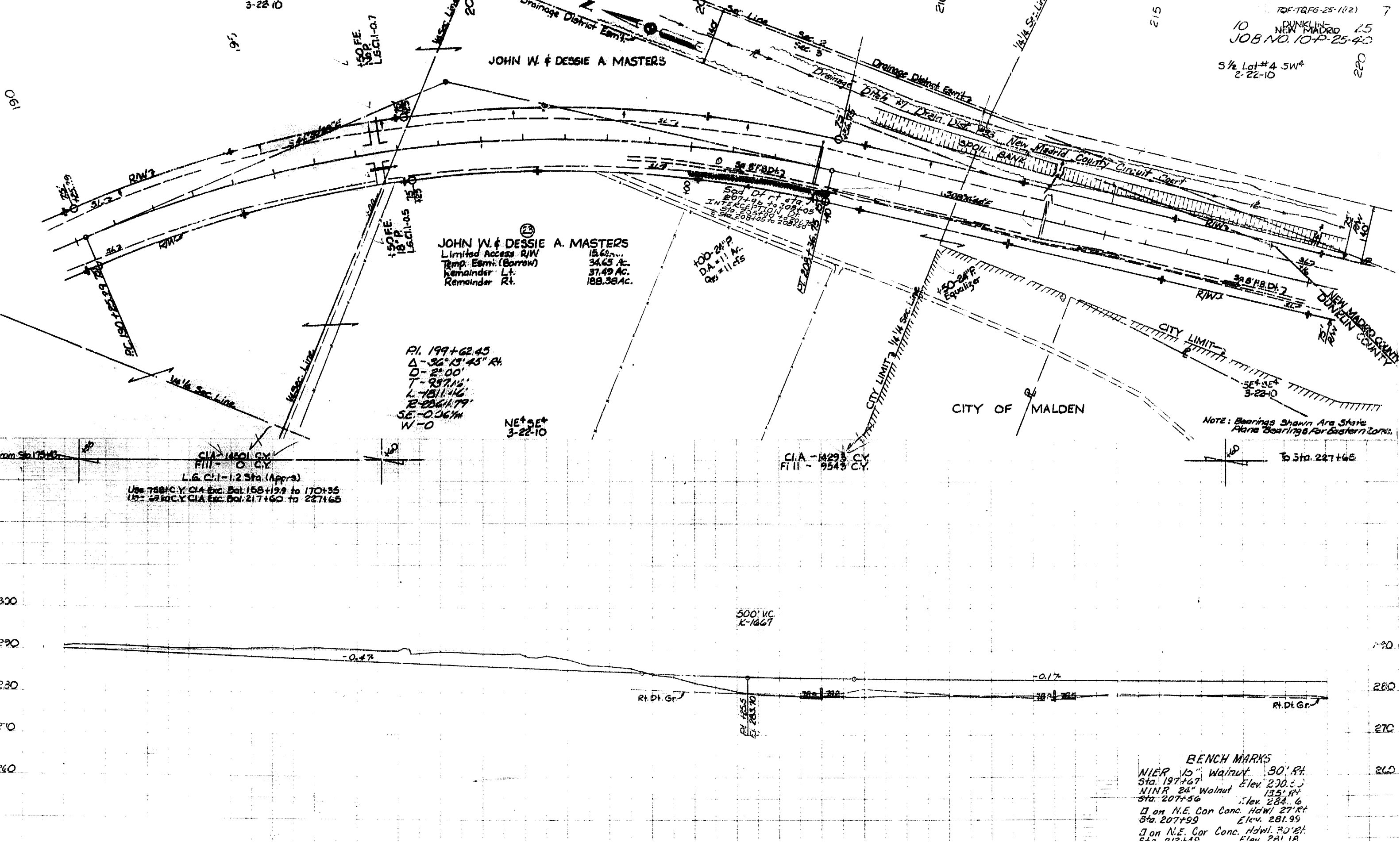
To Sta. 192+35

L.W. Elev. 323.7
L.W. Elev. 321.6
1180' VC.
K - 169
SSD - 485

600' VC.
K - 158

400' VC.
K - 2000
SSD - 3695

BENCH MARKS
N.I.S.W.R. 15' Locust
196' Lt. & Rte. 25
Elev. 295.35



220

5 1/2 Lot #4 SW 1/4
2-22-10

230

N 1/2 Lot #4 NW 1/4
11-22-10

235

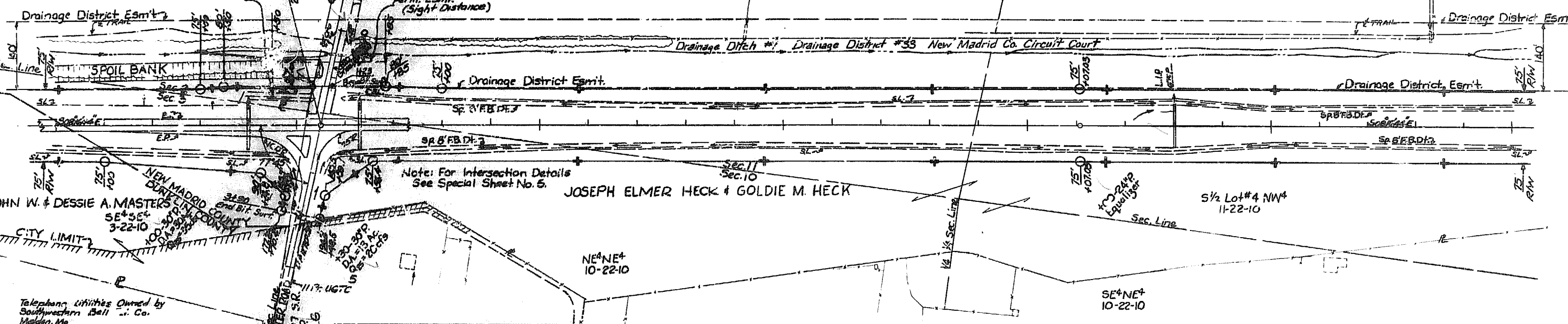
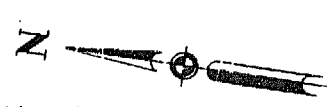
5 1/2 Lot #4 NW 1/4
11-22-10

245

TAF-TGFG-25-1(12) 8
DUNKLIN-
NEW MADRID 25
JOB NO. 10-P-25-40

RAYBURN S. WHITENER et al
Limited Access R/W 0.21 AC.
Perm. Esmt. (Sight Dist.) 0.10 AC.
Remainder Lt. 1.79 AC.

JOSEPH ELMER HECK & GOLDIE M. HECK
Limited Access R/W 11.81 AC.
Perm. Esmt. (Sight Dist.) 0.17 AC.
Temp Esmt. (Removal) 0.01 AC.
Remainder Lt. 80.61 AC.
Remainder Rt. 14.58 AC.



Telephone Utilities Owned by
Southwestern Bell Co.
Malden, Mo

NOTE: Bearings Shown Are State Plane
Bearings For Eastern Zone.

Land Survey Monument Iron Bar The Cor. of
Frac. Secs. 3 and 10 T22N, R10E is 210.37 ft.
N 89° 13' 14" W of E. Sec. 225+18.47. Witnessed
by Luther B. Van Cleve, L.S. 533.

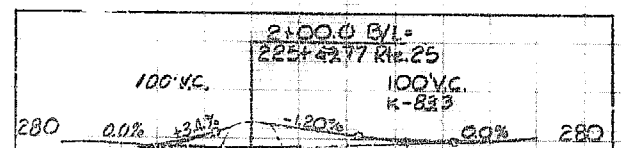
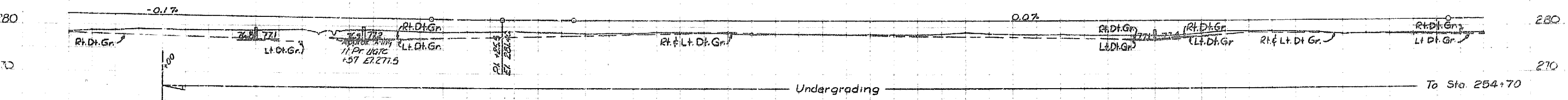
CITY OF
MALDEN

From Sta. 217+60
C.I.A. - 1704 CY
Fill - 5748 CY
Overhaul 41520 Sta. Yds.
Obtain 6920 C.Y. C.I.A. Exc. Bal. 190+35 to 197+60

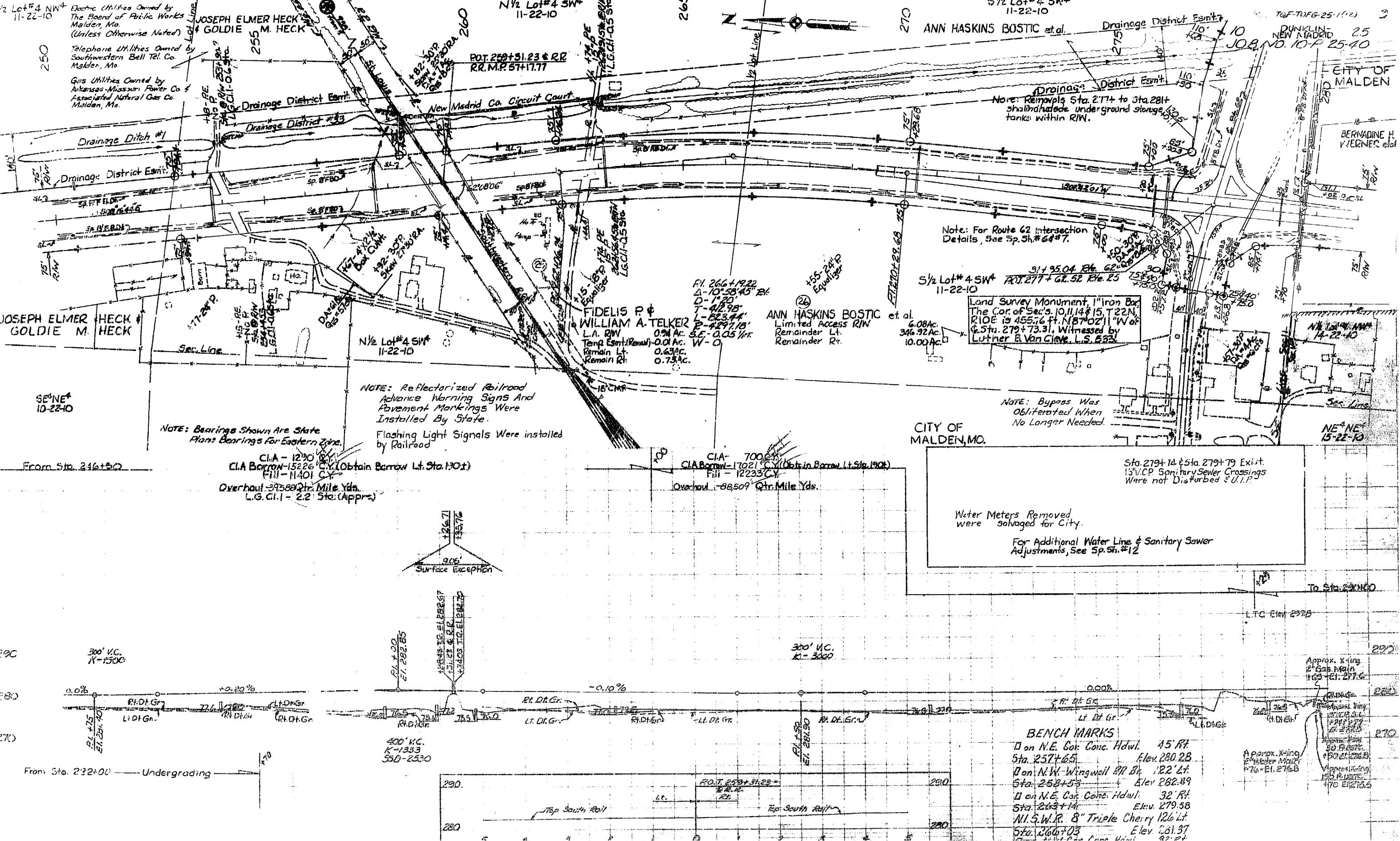
C.I.A. - 1650 CY
C.I.A. Borrow - 86.16 C.Y. (Obtain Borrow Lt. Sta. 190+)
Fill - 7107 C.Y.
Overhaul 7781 Qtr. Mile Yds.

To Sta. 264+00

300' VC
K-3000



BENCH MARKS
N.I.W.R. 36" Cottonwood 208' Lt.
Sta. 225+33 Elev. 280.14
N.I.S.R. 36" B. Oak 122' Lt.



CITY OF
MALDEN

Note:
For Additional Route 62 Inter-
section Details, See Sp. Sheets No. 647

Drainage District #1
Drainage District #35
New Madrid Co.
Circuit Court

35+78 Build 22" (95') Box Culv.
Slew 23" R.A. ~ Br. #A-3478
Clean Out Channel, 16 ft. Bottom
2:1 Slopes, Within R/W.

Existing Rte 62 & New Construction
PI ~ 41+91.0
Δ ~ 11° 25' Lt
D ~ 3'
T ~ 190.9'
L ~ 380.6'
E ~ 1910.38'
S.E. ~ See Sp. #7

Starting Nte. 62
R ~ 19+04.6
A ~ 11° 25' Lt
D ~ 3'
T ~ 190.9'
L ~ 380.6'
E ~ 1910.38'
S.E. ~ See Sp. #7

ANN HASKINS BOSTIC et al.

Note: Right of Way Dimensions Are Referenced
To This Curve Data Ahead
Of Sta. 33+04.6

UGTC Was Adjusted by Owner Right
of Route 62 Sta 37+50 to Sta 40+25

Electric Utilities Owned by
The Board of Public Works
(Unless Otherwise Listed)
Telephone Utilities Owned by
Southwestern Bell Tel. Co.
Malden, Mo.
Gas Utilities Owned by
Arkansas-Missouri Power & Light
Co., Associated Natural Gas Co.,
Malden, Mo.

BERNADINE H. WERNER et al

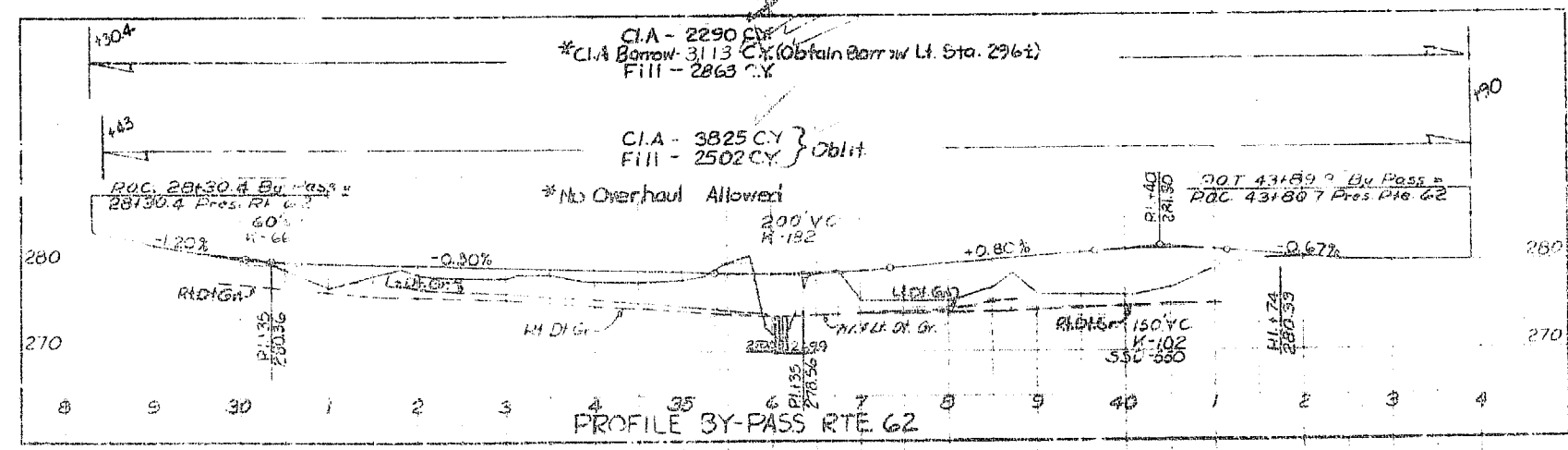
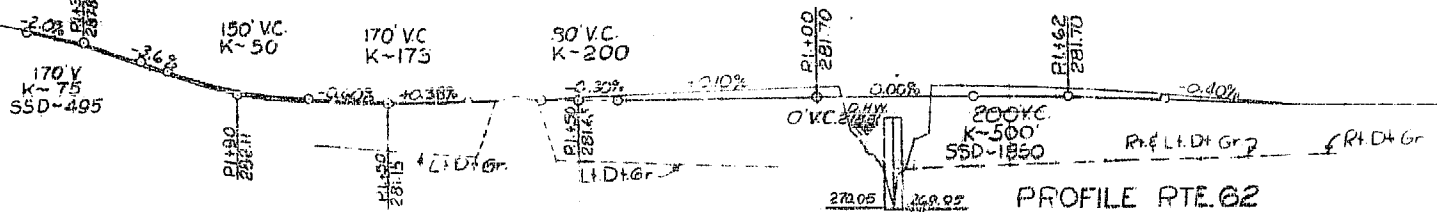
NOTE: By-Pass Was Obliterated
When No Longer Needed

PARCEL NO.	OWNERSHIP	1/4 R/W	1/4 N/W	1/4 S/W	1/4 E/W	REMAIN
27	TOM & GERTIE GOLDS R.H.	0.47	—	0.5	—	0.77
28	J.L. & VIRGINIA COKER	1.16	—	—	—	—
29	MARY WERNER	0.43	—	—	—	—
31A	RUTH EDNA RTH KOCHTILSKY POUCHER et al	—	—	—	0.30	—

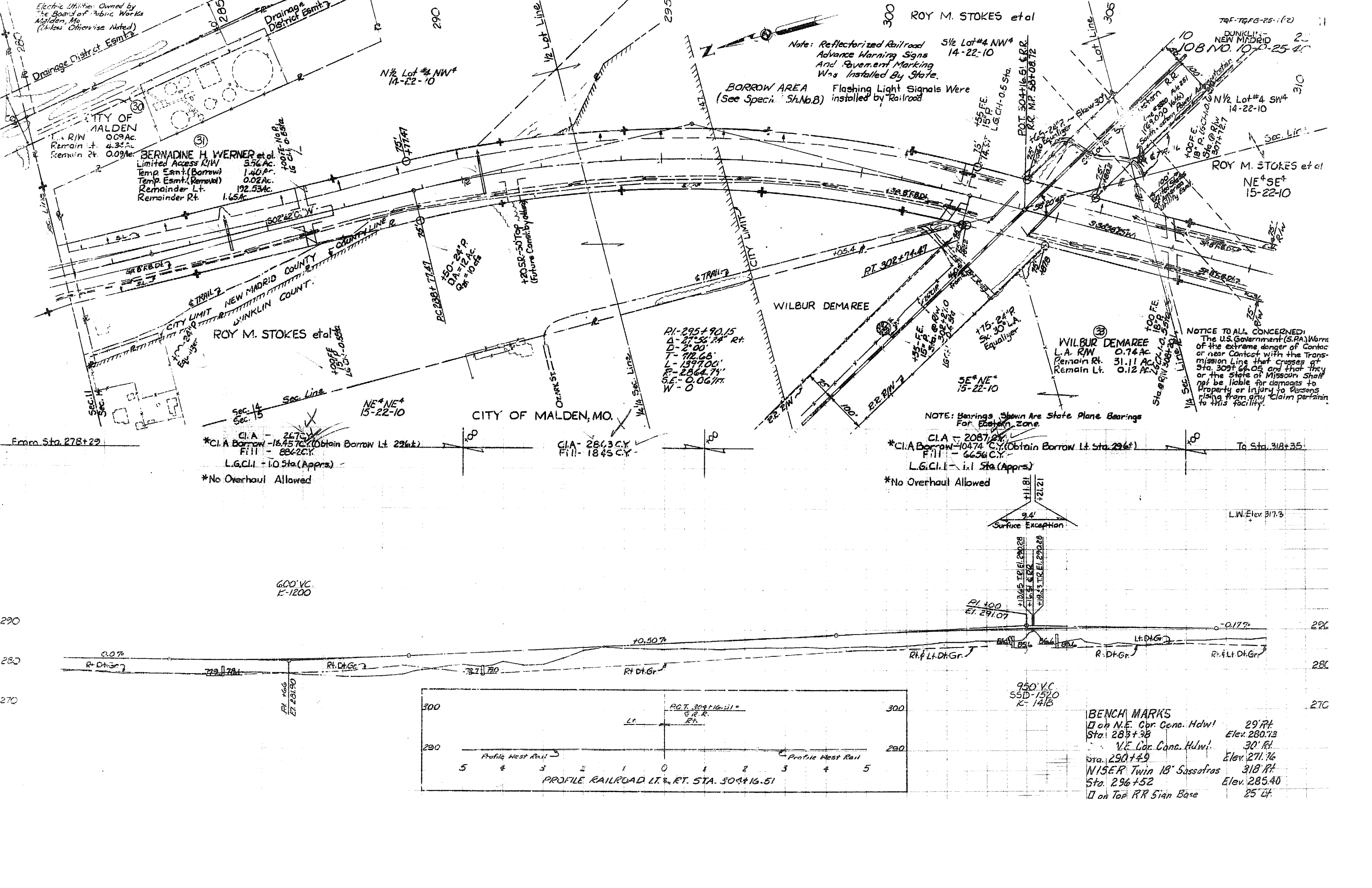
NE 1/4 NE 1/4
15-22-10

N 1/2 Lot #3 NW 1/4
14-22-10

CIA - 2339 CY
CIA Ch. Cl. Out - 141 CY
CIA Borrow - 1024 CY (Obtain Borrow Lt. Sta. 1901)
Fill - 2419 CY
L.G.C.I. - 1.4 Sta. (Apprs.) -
Overhaul - 62' 46" Qtr. Mile Yds.



BENCH MARKS
Don NW Cor. Cor. 14-22-10
Sta 35+65 (14-22-10) Elev. 270.05
Don Center N. Wall D.I. 14-22-10
Sta 35+40 (14-22-10) Elev. 270.05

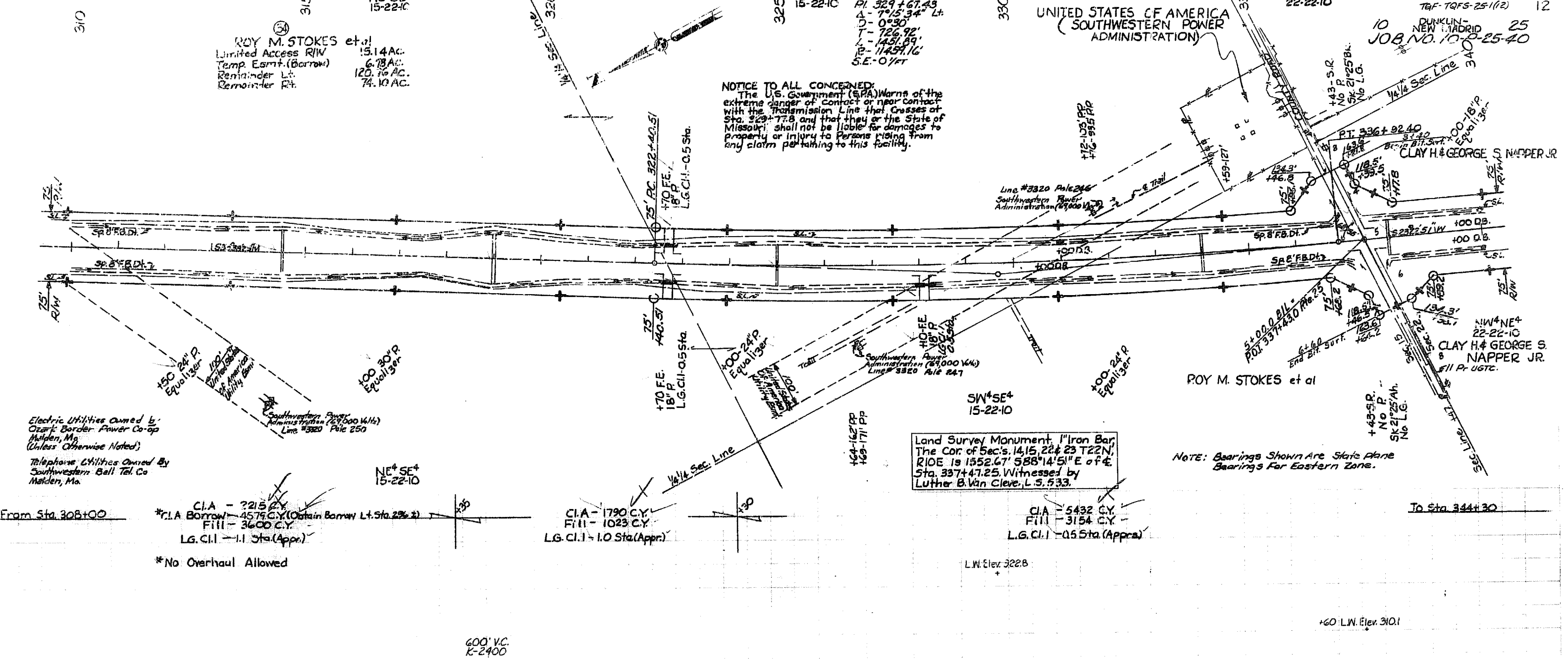


ROY M. STOKES et al
 Limited Access R/W 15.14 AC.
 Temp. Esmt. (Borrow) 6.78 AC.
 Remainder Lt. 120.76 AC.
 Remainder Rt. 74.10 AC.

NOTICE TO ALL CONCERNED:
 The U.S. Government (S.P.A.) warns of the extreme danger of contact or near contact with the Transmission Line that crosses at Sta. 323+77.8 and that they or the State of Missouri shall not be liable for damages to property or injury to persons arising from any claim pertaining to this facility.

UNITED STATES OF AMERICA
 (SOUTHWESTERN POWER
 ADMINISTRATION)

10 JOB NO. 10-25-40
 25
 12

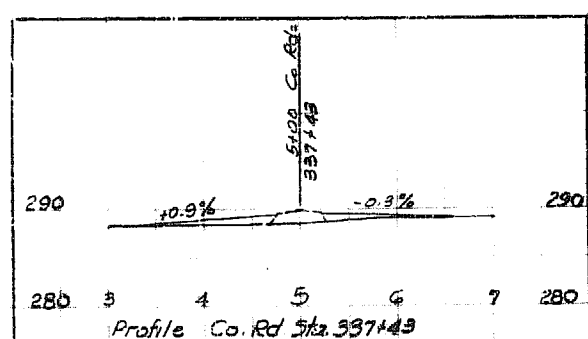
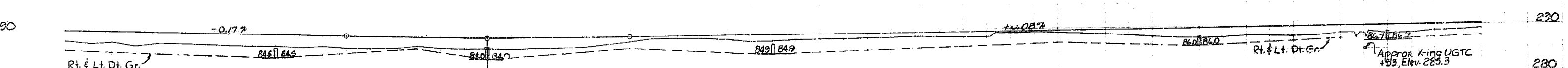


Electric Utilities Owned by
 Ozark Border Power Co-op
 Malden, Mo.
 (Unless Otherwise Noted)
 Telephone Utilities Owned by
 Southwestern Bell Tel. Co.
 Malden, Mo.

Land Survey Monument, 1" Iron Bar
 The Cor. of Sec's. 14, 15, 22 & 23 T22N,
 R10E is 1552.67' S88°14'51"E of E.
 Sta. 337+47.25. Witnessed by
 Luther B. Van Cleave, L.S. 533.

NOTE: Bearings Shown are State Plane
 Bearings for Eastern Zone.

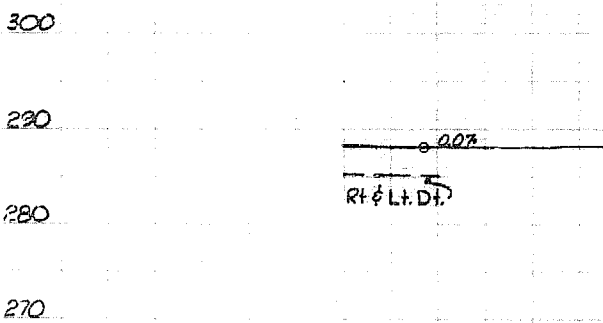
From Sta. 308+00
 C.I.A. - 2215 C.Y.
 *C.I.A. Borrow - 4574 C.Y. (Obtain Borrow Lt. Sta. 298+2)
 Fill - 3600 C.Y.
 L.G. C.I. - 1.1 Sta. (Appr.)
 *No Overhaul Allowed
 C.I.A. - 1790 C.Y.
 Fill - 1023 C.Y.
 L.G. C.I. - 1.0 Sta. (Appr.)
 C.I.A. - 5432 C.Y.
 Fill - 3154 C.Y.
 L.G. C.I. - 0.5 Sta. (Appr.)



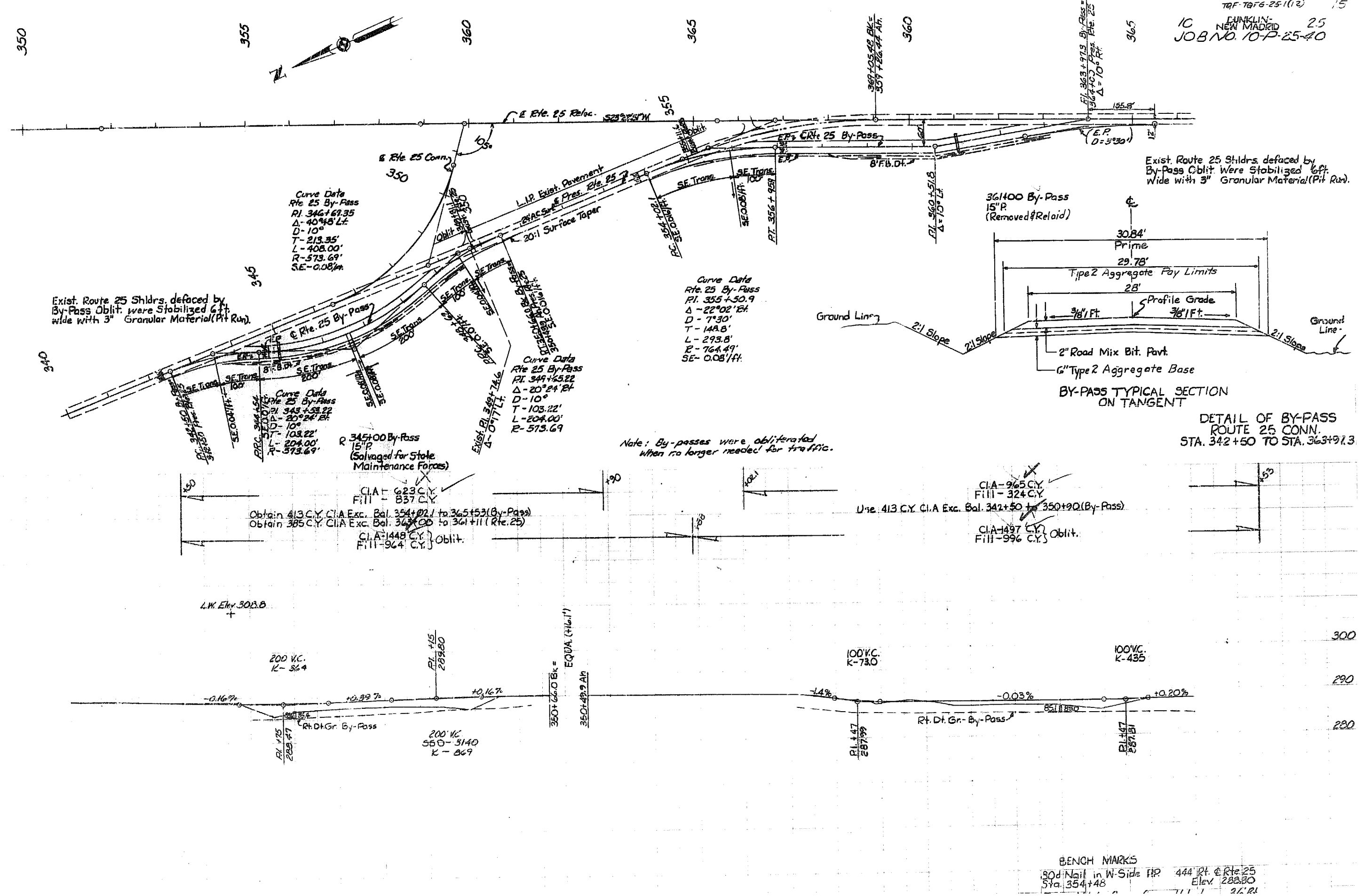
BENCH MARKS

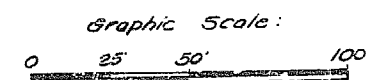
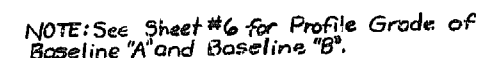
Location	Station	Height	Elevation
On N.W. Cor. Conc.	Sta. 314+49	32' Rt.	Elev. 286.86
N.I.S.R. 36" Catalpa	Sta. 323+73	200' Rt.	Elev. 287.85
On N.W. Cor. Conc.	Sta. 324+99	28' Rt.	Elev. 287.78
On N.W. Cor. Conc.	Sta. 333+99	25' Rt.	Elev. 288.90
N.I.E.S. PP	Sta. 337+22	201' Lt.	Elev. 289.52

360

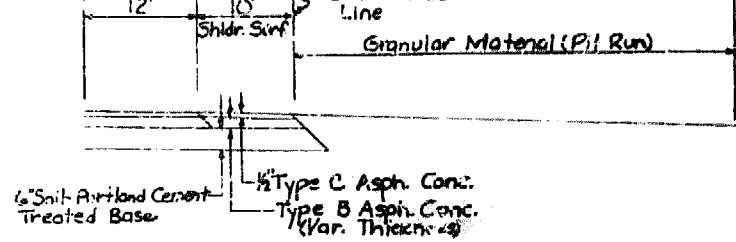


NOTE : By-Pass Was Obliterated
When No Longer Needed.



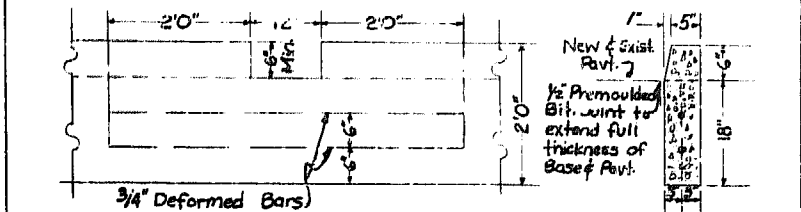
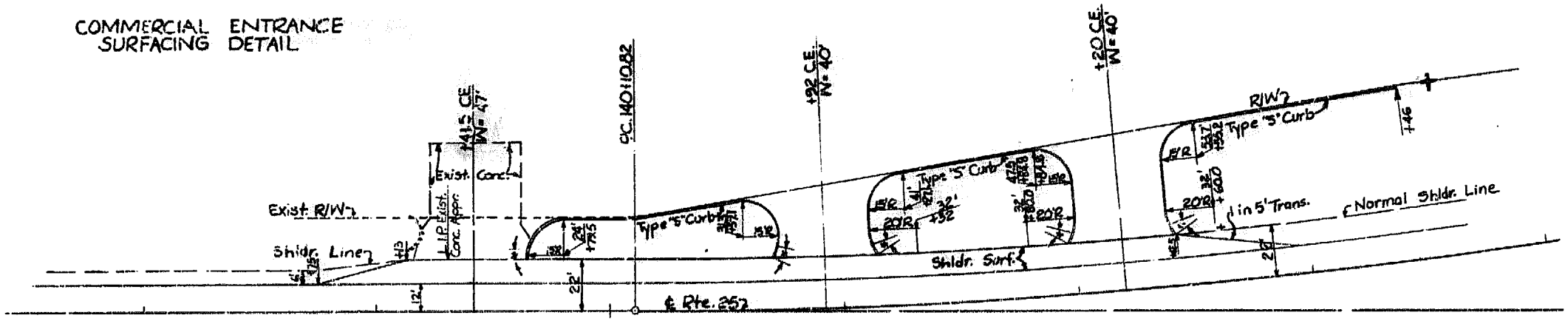


DETAIL OF INTERSECTION
ROUTE 25 & ROUTE 25 CONN.
STA. 139+30



COMMERCIAL ENTRANCE SURFACING DETAIL

*Curb Height Taper C- 6" in 5ft.

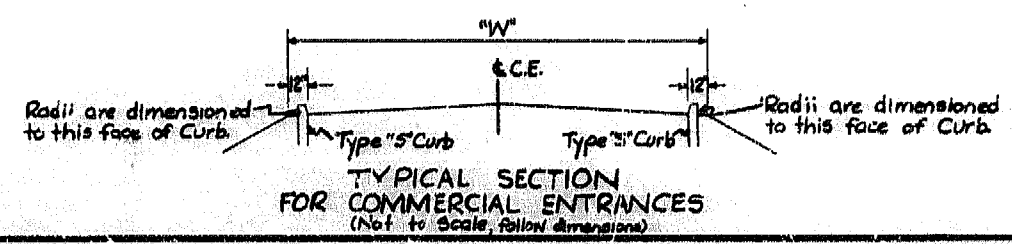
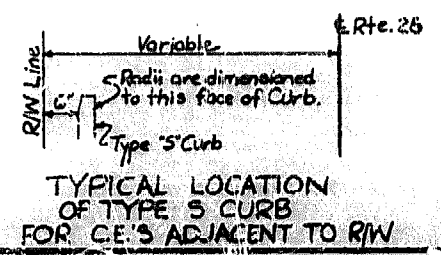


The Cost of this work included in the Cost of Type "S" Curb per lin. ft.

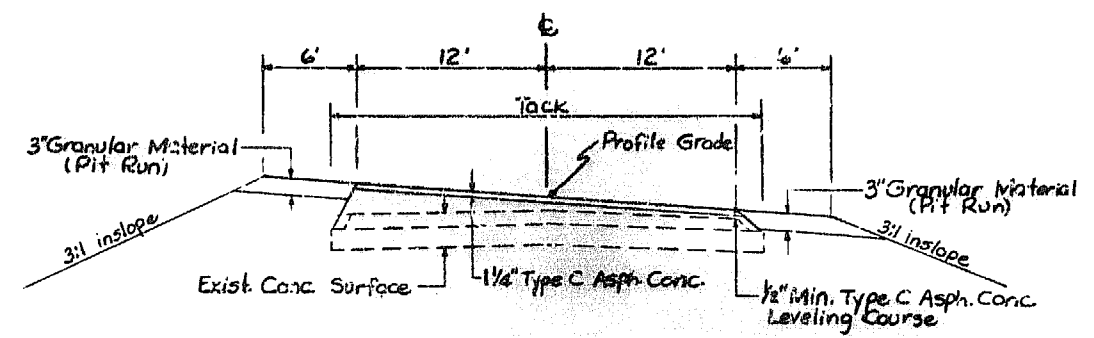
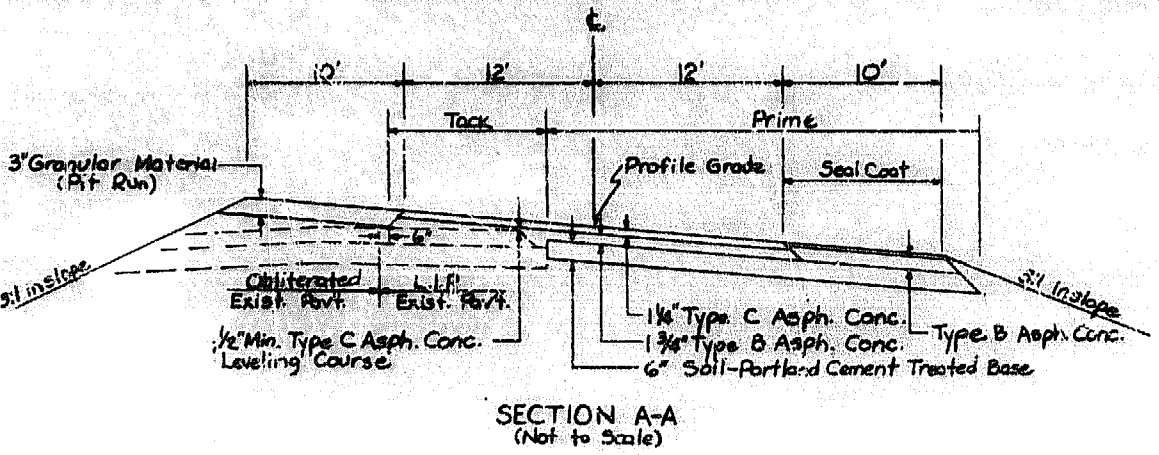
TYPICAL SECTION

Note: Drainage Notches was Constructed in Type "S" Conc. Curb as directed by Engineer.

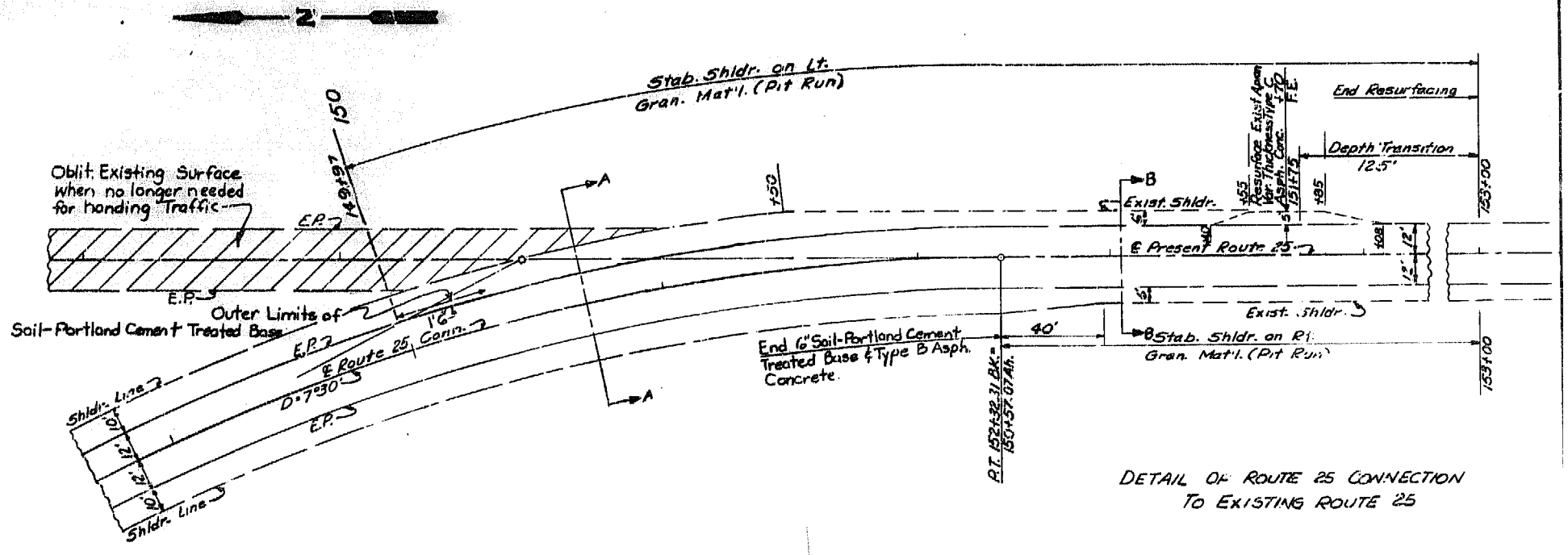
DRAINAGE NOTCH FOR TYPE "S" CONCRETE CURB (Not to Scale, follow dimensions)



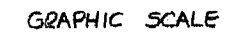
DETAIL OF COMMERCIAL ENTRANCES LT. STA. 139+ TO STA. 142+

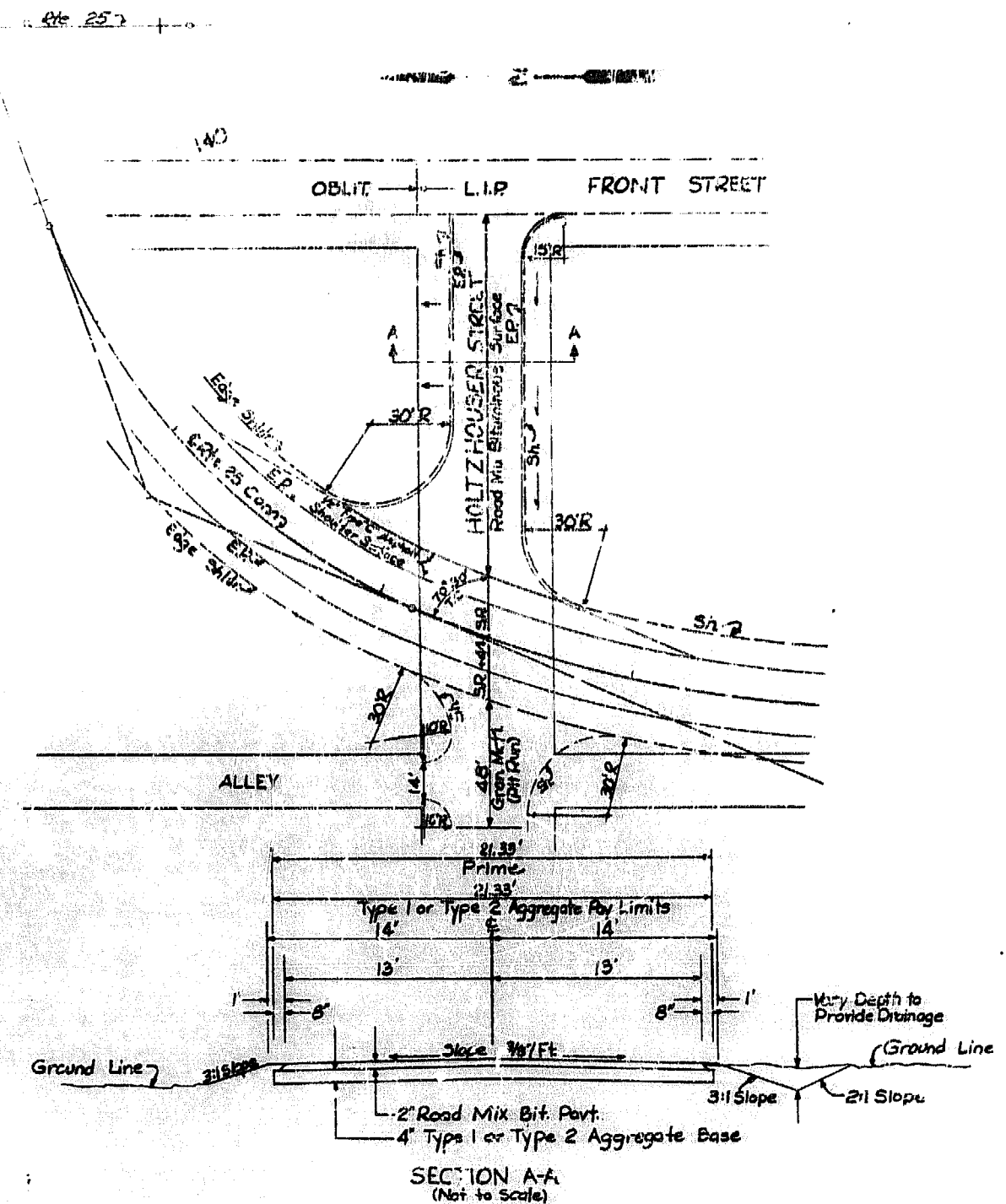
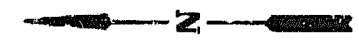


SECTION B-B

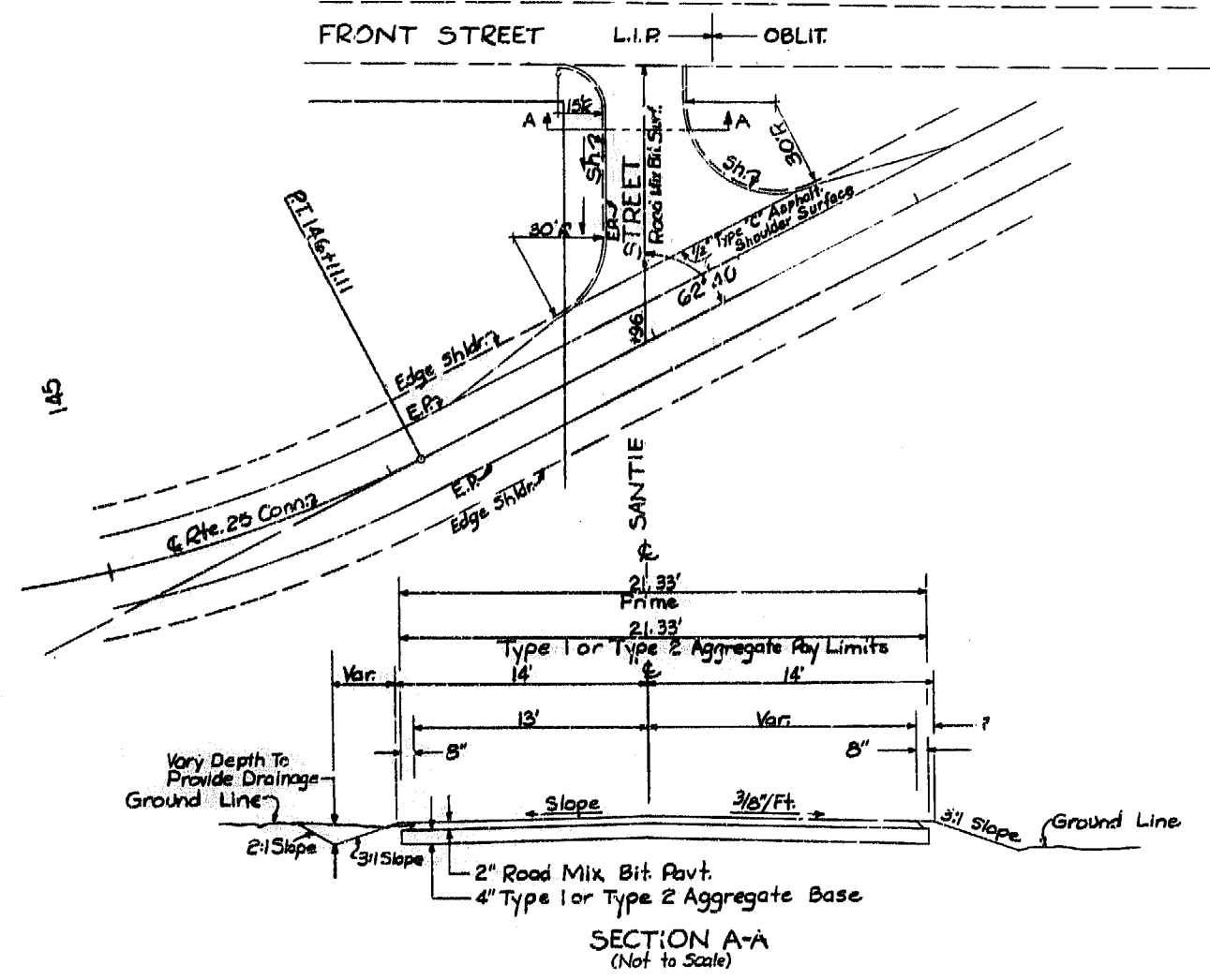


DETAIL OF ROUTE 25 CONNECTION TO EXISTING ROUTE 25



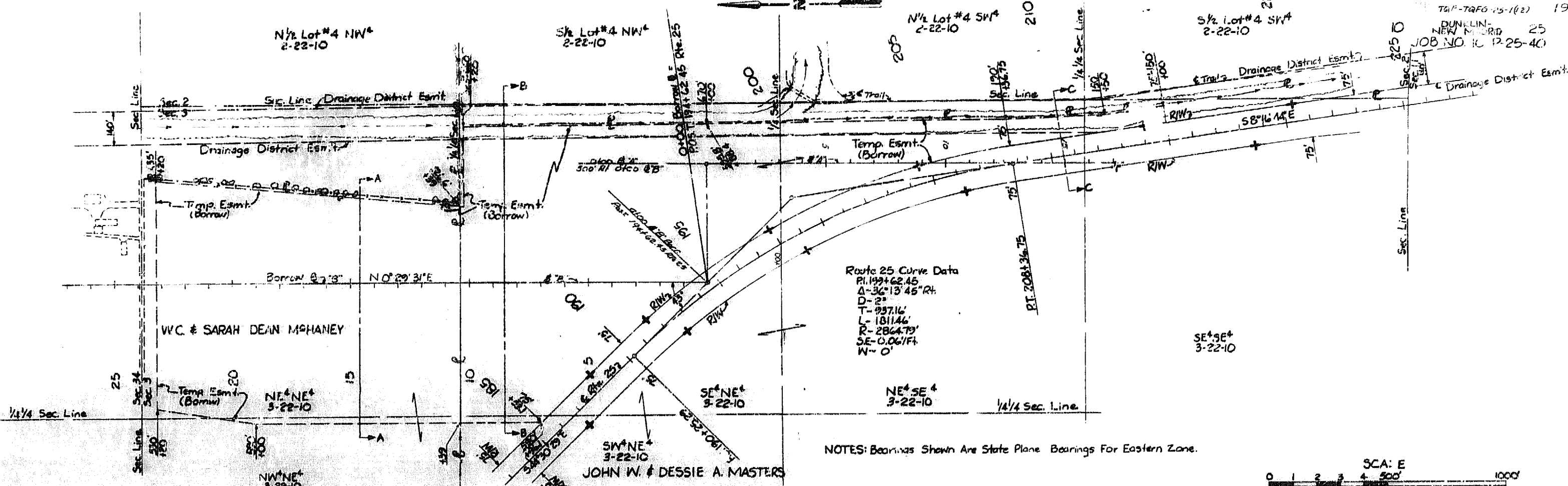


DETAIL OF SIDE ROADS
RT. & LT. STA. 142+44
RTE. 25 CONN.

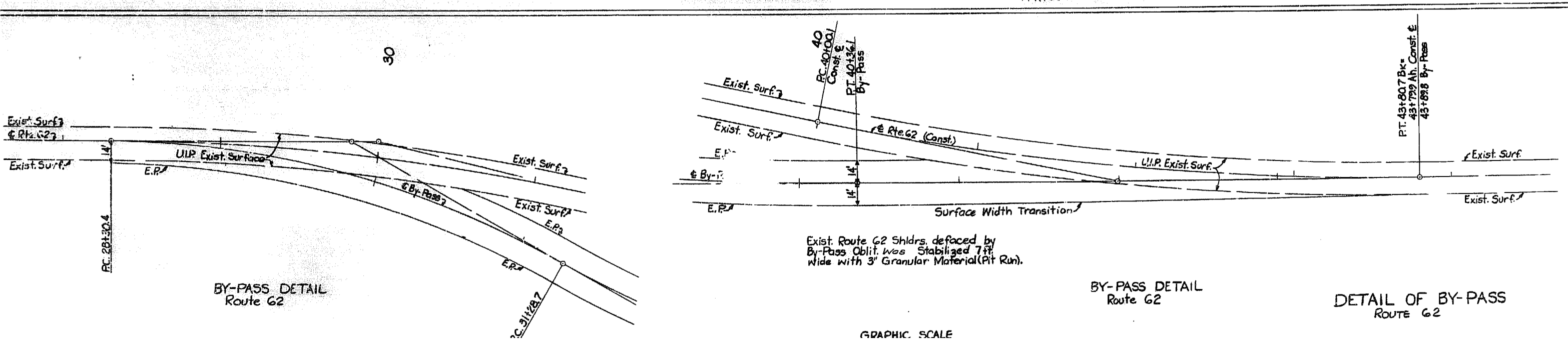
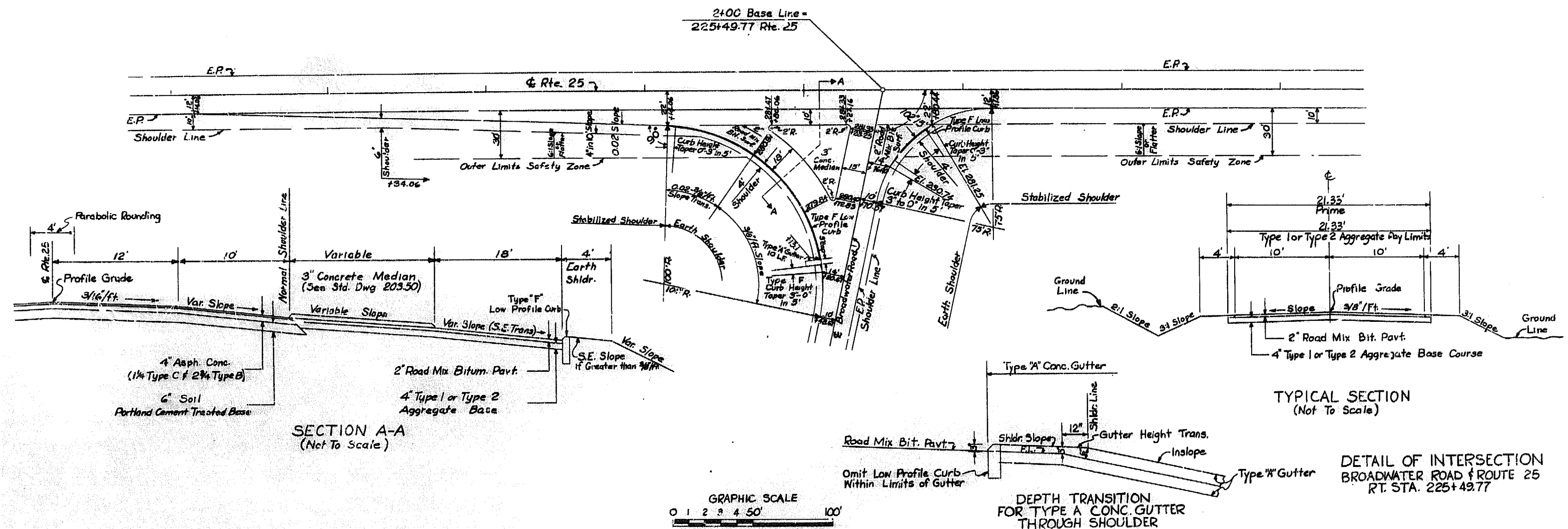
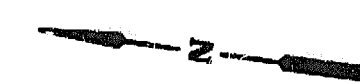


DETAIL OF SIDE ROAD
LT. STA. 146+96
RTE. 25 CONN.

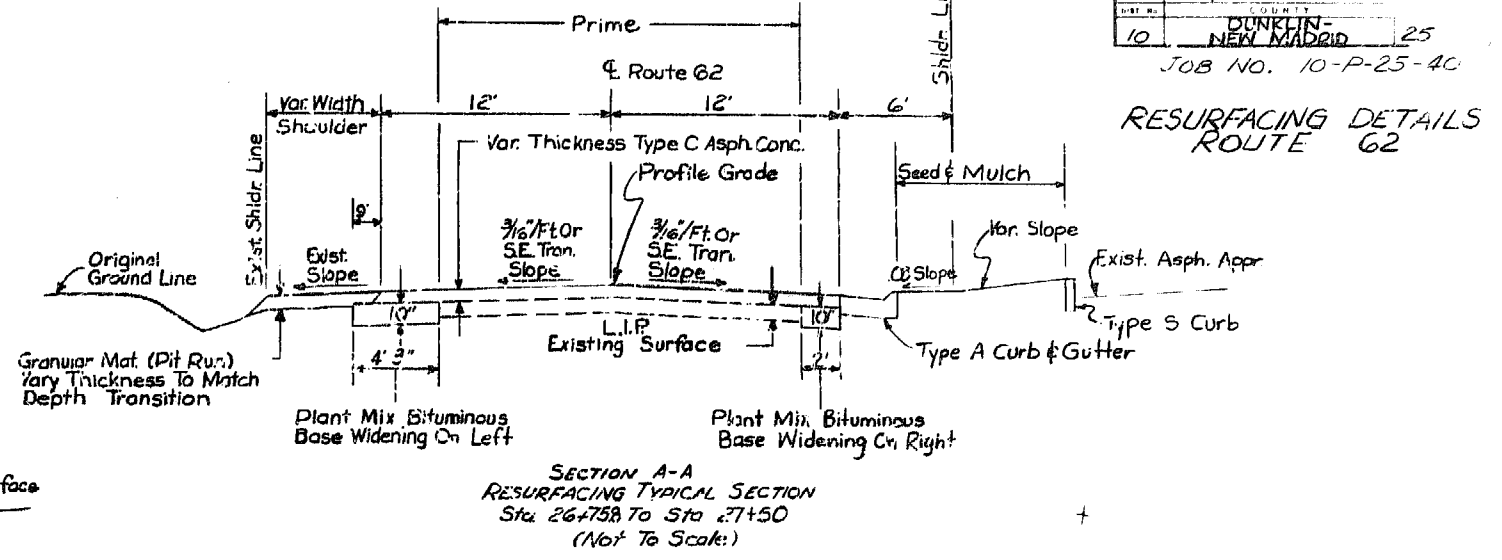
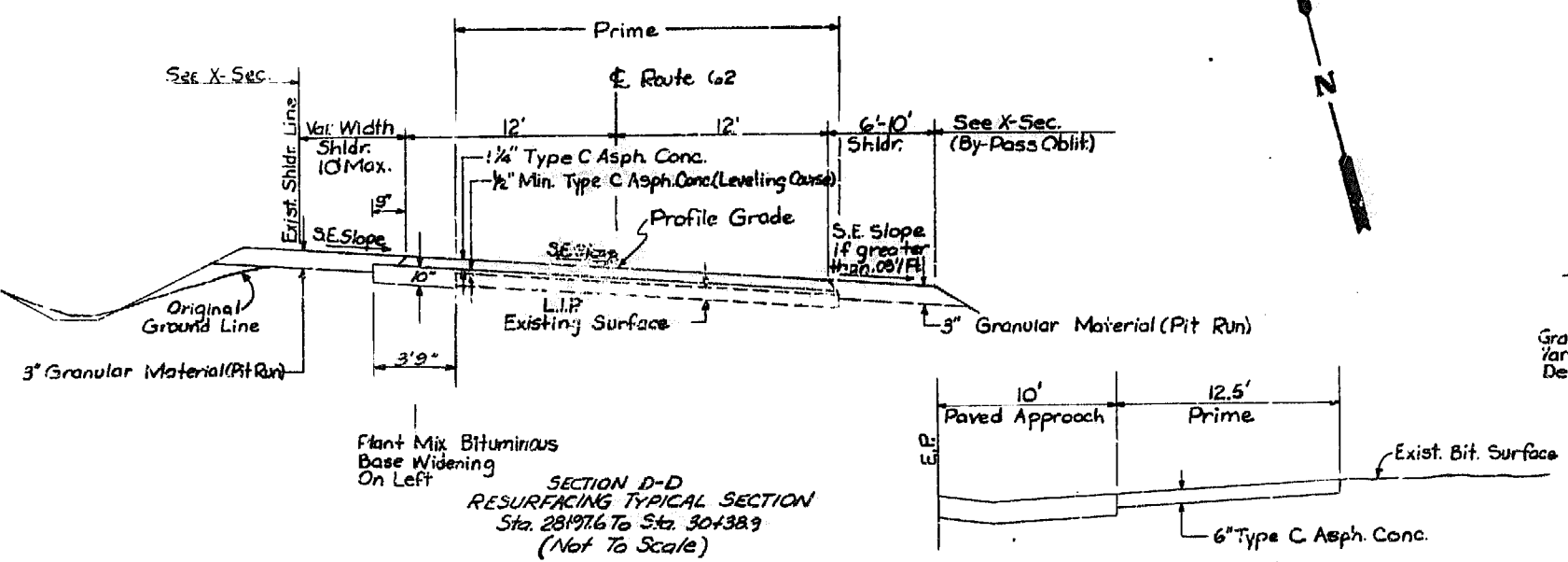
SCALE



225

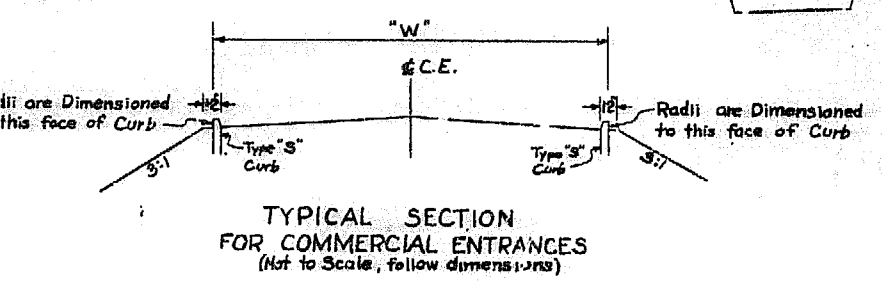
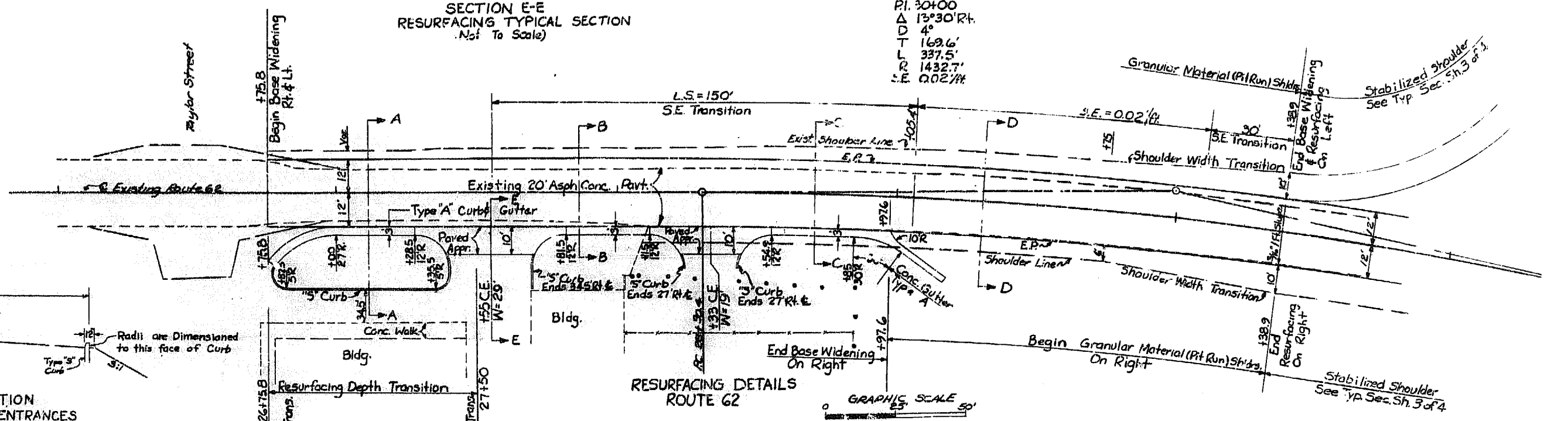


RESURFACING DETAILS
 ROUTE 62

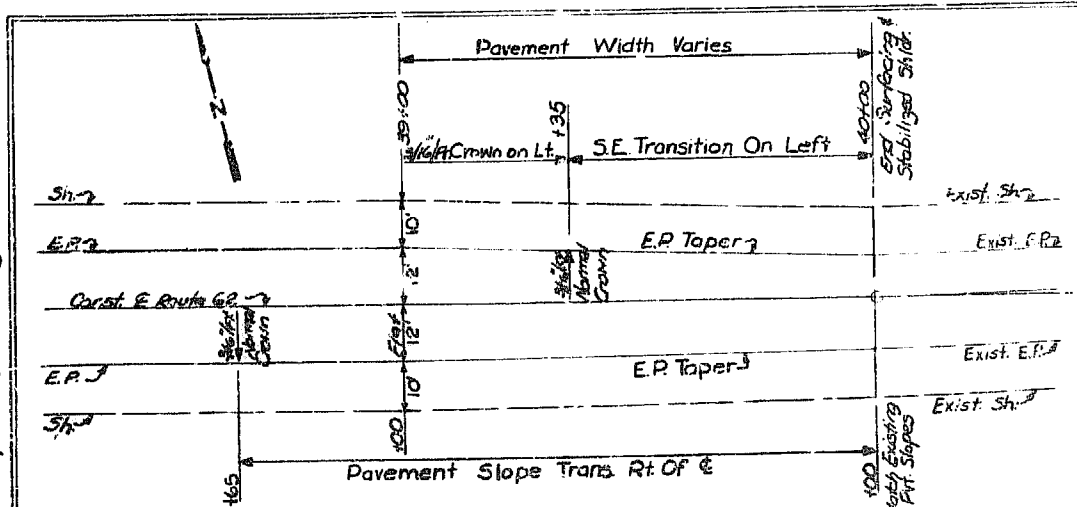
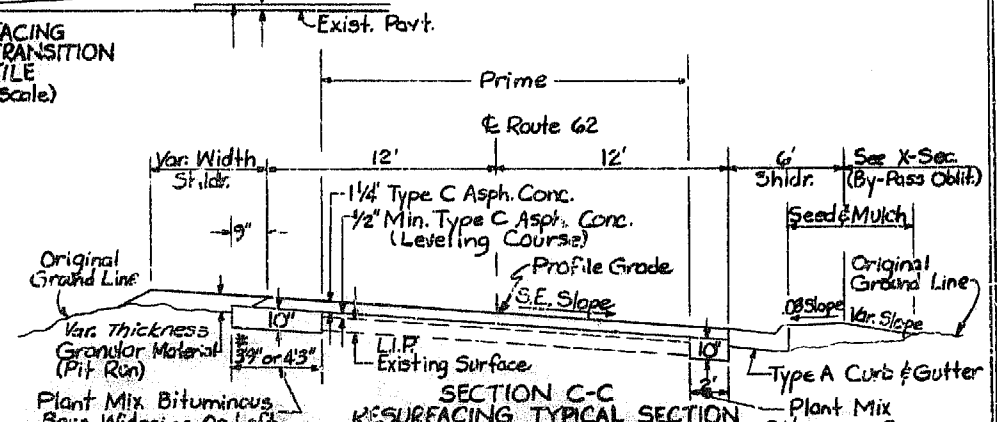
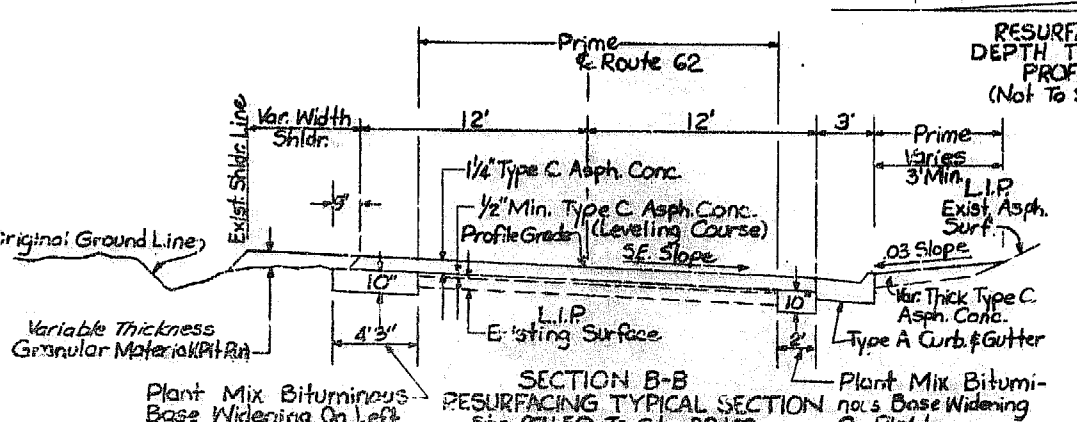


Survey & Construction &
 Curve Data
 Route 62
 P.I. 304+00
 Δ 13°30' Rt.
 D 4'
 T 169.6'
 L 337.5'
 R 1432.7'
 S.E. 0.021/ft

SECTION E-E
 RESURFACING TYPICAL SECTION
 (Not To Scale)



RESURFACING DETAILS
 ROUTE 62



N 1/2 Lot #4 NW 1/4
14-22-10

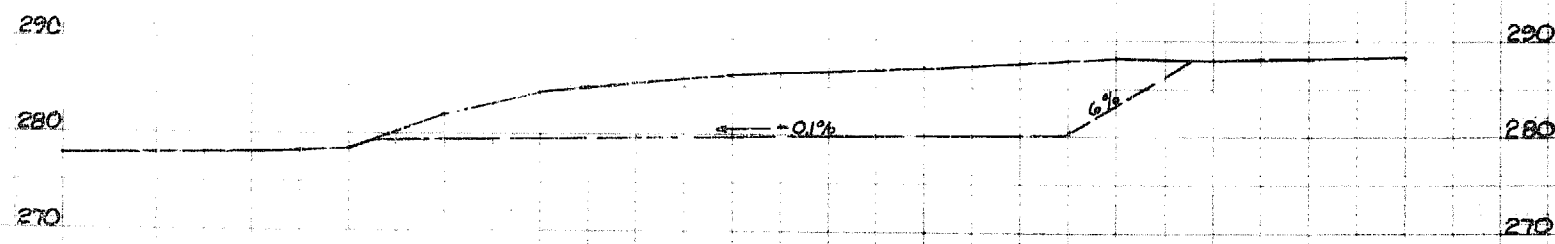
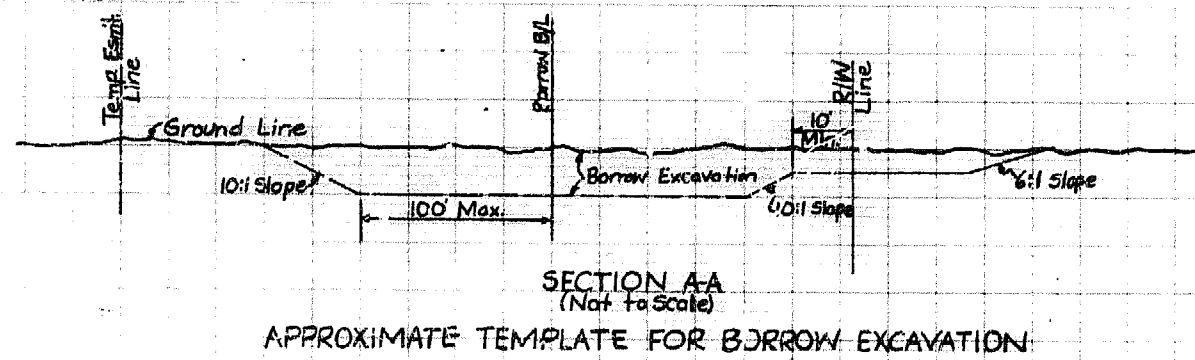
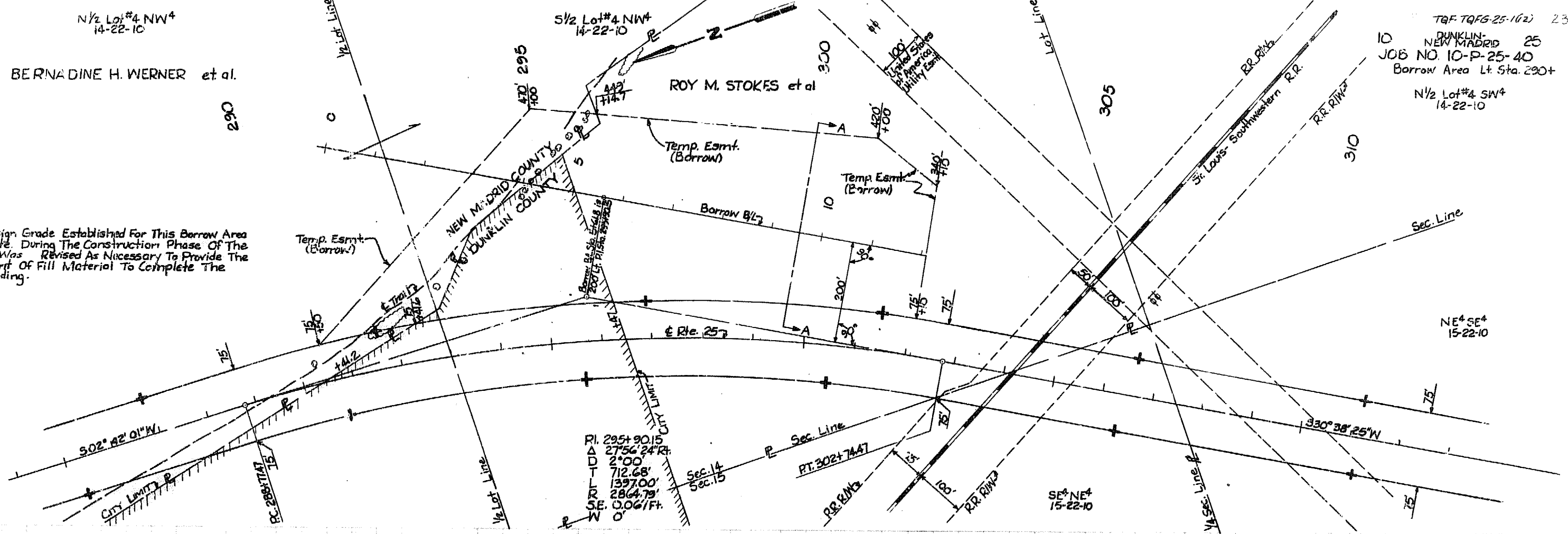
BERNADINE H. WERNER et al.

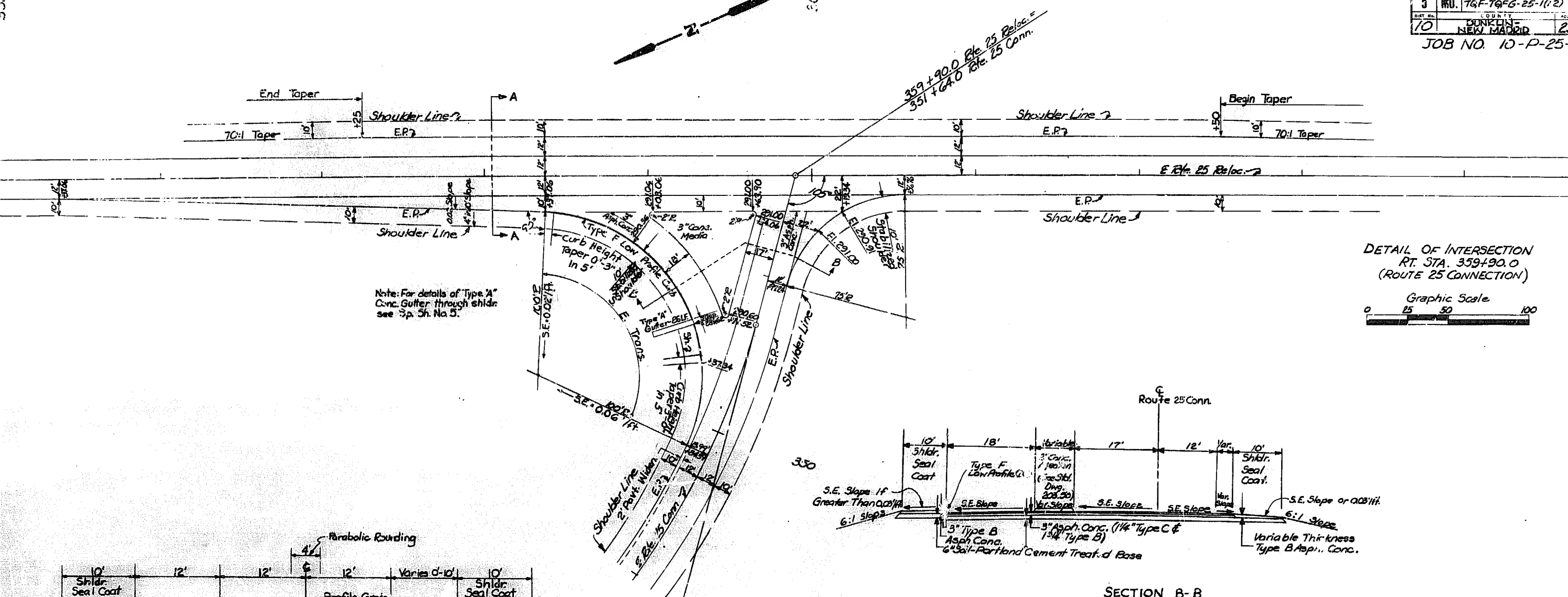
S 1/2 Lot #4 NW 1/4
14-22-10

ROY M. STOKES et al

T&F TQFG-25-162 23
DUNKLIN-NEW MADRID 25
JOB NO. 10-P-25-40
Borrow Area Lt. Sta. 290+
N 1/2 Lot #4 SW 1/4
14-22-10

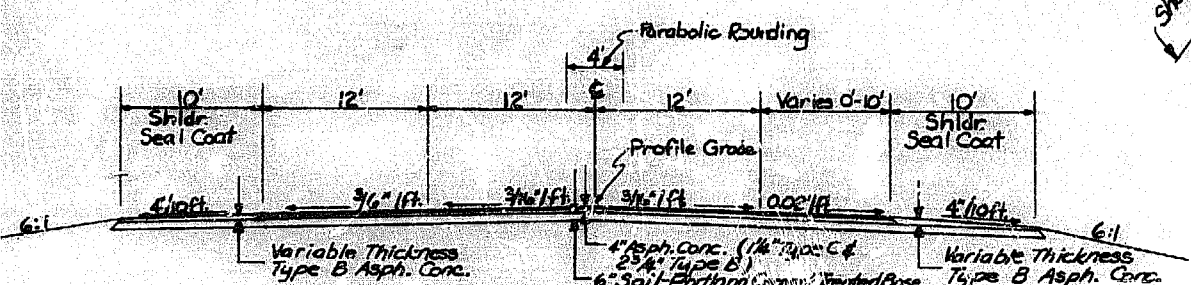
NOTE: The Design Grade Established For This Borrow Area is Appropriate During The Construction Phase Of The Project. It Was Revised As Necessary To Provide The Proper Amount Of Fill Material To Complete The Roadway Grading.



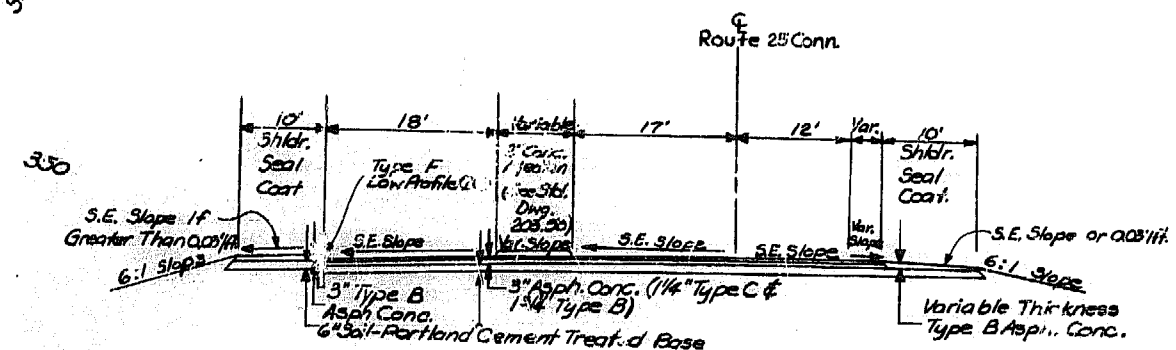


Note: For details of Type 'A' Conc. Gutter through shldr. see Sp. Sh. No. 5.

DETAIL OF INTERSECTION
RT. STA. 359+90.0
(ROUTE 25 CONNECTION)



SECTION A-A
TYPICAL SECTION
(Not To Scale)



SECTION B-B
(Not To Scale)

LEGEND
Underground Water: New —W—W—
Relocated Hydrant: (H)
Relocated Gate Valve: (V)

Note: Underground water line installations has a minimum cover of 42 inches.

Note: Water & Sewer facilities owned by City of Malden

147+00.10 Lt.
Built 6" ~ 11 1/2" Horiz. Bend

145+19, Lt.
Built Reloc. Serv. Conn.

148+15, Lt.

144+51, Lt.

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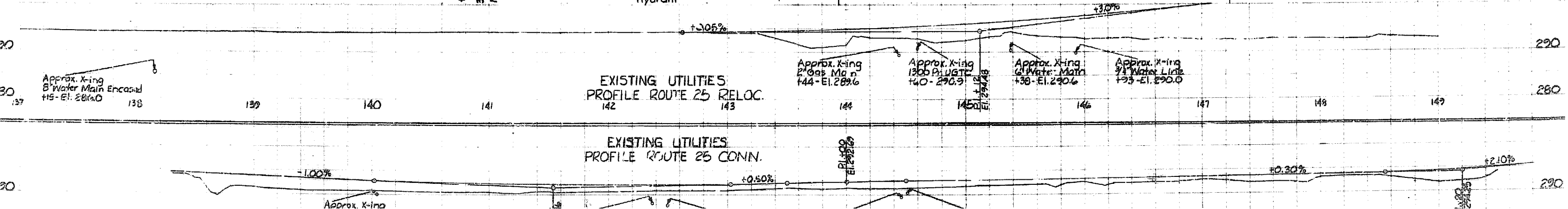
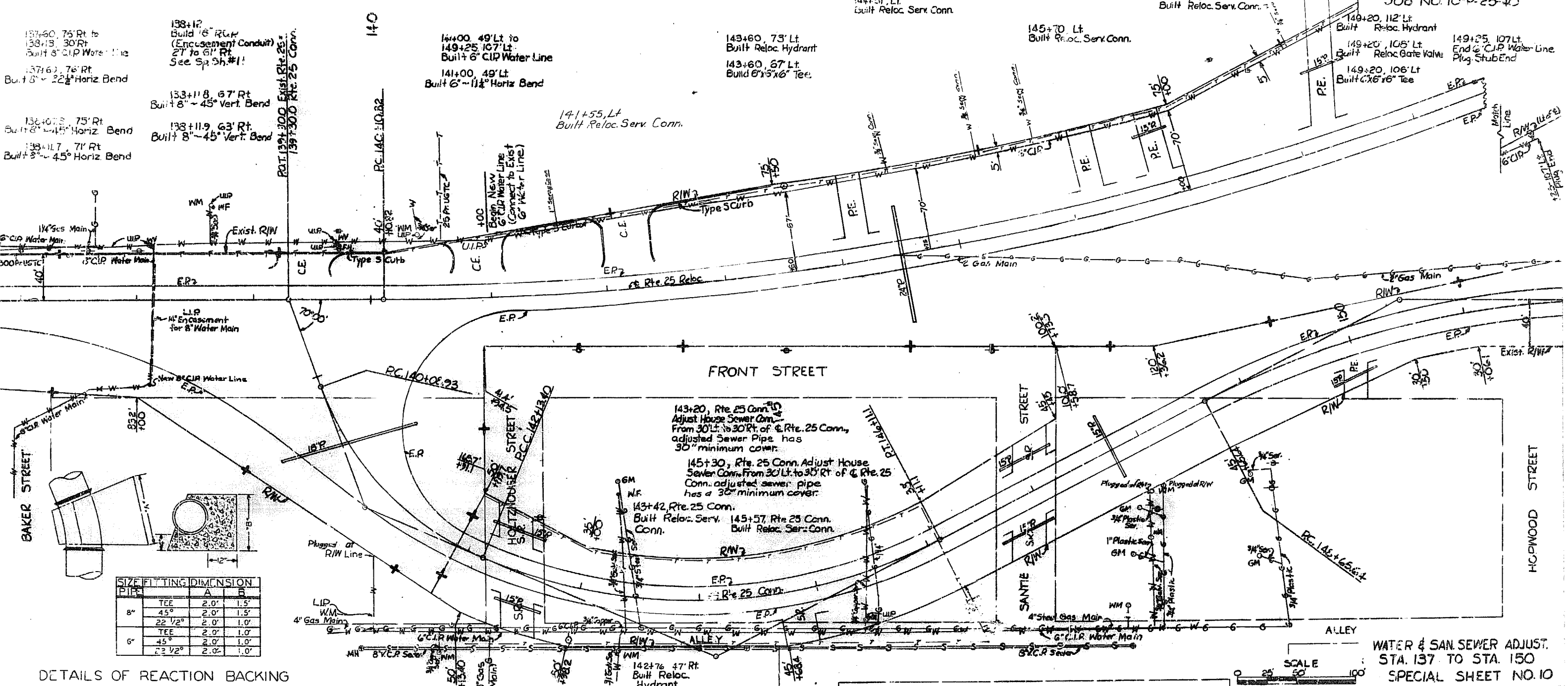
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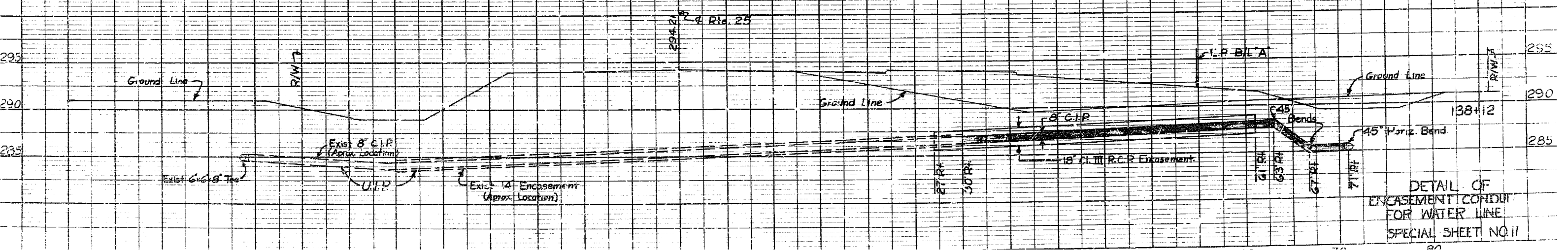
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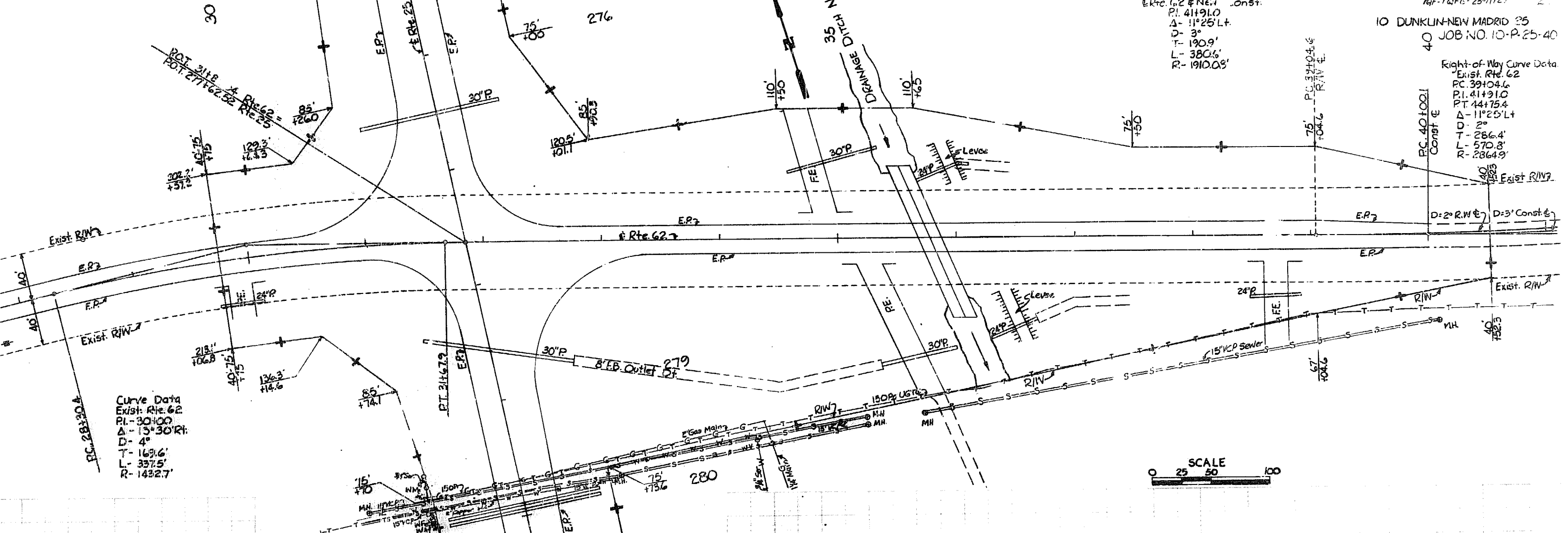
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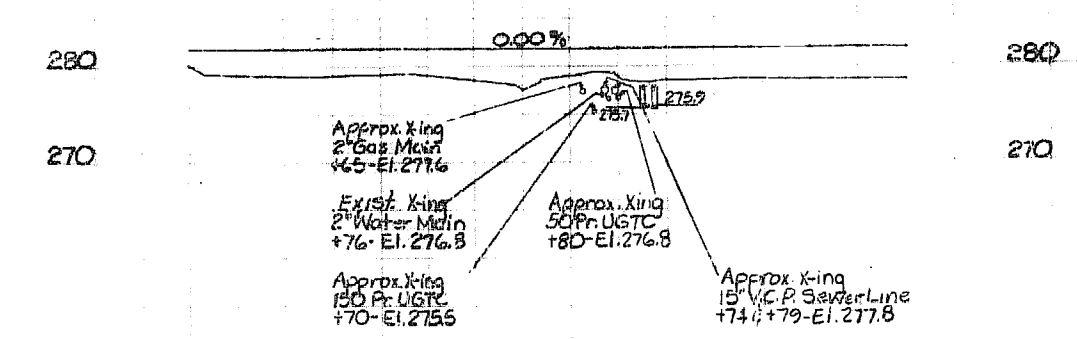




Sta. 279+90 - Built 24" Encasement Conduit (Class III RCP)
 Sta. 279+95 - Built 24" Encasement Conduit (Class III RCP)
 (Encasement for Future Sanitary Sewer Installation)

Sta. 279+74 & Sta. 279+79 Exist.
 15" V.C.P. Sanitary Sewer Crossings.
 Do not Disturb U.I.P.

Sta. 279+83.70 Lt. to 70' Rt.
 Replaced Exist. 2" Water Main
 With 2" Copper Water Tube.
 Minimum Cover 42".



SP-2
JAN. 1977

MISSOURI STATE HIGHWAY COMMISSION
STANDARD PLANS

FINAL PLANS

FED. ROAD DIVISION	PROJECT	SHEET NO.
5	M.C. T&E-T&FG-25-1 (12)	62
DIST. NO.	COUNTY	ROUTE
10	Dunklin-New Madrid	25

✓ NO.	DESCRIPTION
✓ 202.00D	EXCAVATION & EMBANKMENT
✓ 203.02B	UNDERGRADING
203.10	TABULATED EARTHWORK & SECTION DATA
✓ 203.20	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
203.21	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
✓ 203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
✓ 203.32C	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
203.35	MAILBOX TURNOUTS
203.40D	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (NO SAFETY ZONE)
203.41D	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (SAFETY ZONE)
✓ 203.50H	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
204.00A	EMBANKMENT CONTROL MEASURING DEVICES
502.00E	CONCRETE PAVEMENT APPURTENANCES
502.10B	DOWEL SUPPORTING UNITS
502.20	CONCRETE APPROACH SLABS TO RAILROAD CROSSINGS
503.00D	CONCRETE APPROACH SLABS TO BRIDGES
✓ 602.00A	RIGHT-OF-WAY & DRAIN MARKERS
✓ 604.05	PIPE CULVERT HEADWALLS - TYPE S
604.10A	HEADWALL-WITH ENERGY DISSIPATOR - 18"
604.11A	HEADWALL-WITH ENERGY DISSIPATOR - 24"
604.12A	HEADWALL-WITH ENERGY DISSIPATOR - 30"
604.13A	HEADWALL-WITH ENERGY DISSIPATOR - 36"
604.14A	HEADWALL-WITH ENERGY DISSIPATOR - 42"
604.15A	HEADWALL-WITH ENERGY DISSIPATOR - 48"
604.20A	DROP INLET TYPE B
604.21	DROP INLET TYPE C
604.22	DROP INLET - TYPE D
604.23	DROP INLET - TYPE E
604.24	DROP INLET - TYPE EE
604.25	DROP INLET - TYPE F
604.26A	DROP INLET - TYPE G
604.27	DROP INLET - TYPE S (3 SHEETS)
604.28B	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
604.29A	DROP INLET - TYPE X
604.30A	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
604.40C	PIPE COLLARS
605.10A	CLASS A UNDERDRAINS
✓ 606.00H	GUARD RAIL (2 SHEETS)
✓ 606.20C	BRIDGE ANCHOR SECTION (BRUSH CURB)(ALSO INCLUDE 606.00)
606.21B	BRIDGE ANCHOR SECTION - CURB TYPE (ALSO INCLUDE 606.00)
606.22A	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)(INCLUDE 606.00)
✓ 606.30B	TERMINAL SECTION (ALSO INCLUDE 606.00)
606.40A	GUARD CABLE
606.50	GUARD FENCE
607.10M	CHAIN LINK FENCE
607.11A	CHAIN LINK FENCE FOR RETAINING WALLS
607.20C	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓ NO.	DESCRIPTION
✓ 608.00A	PAVED APPROACHES
608.10D	CONCRETE SIDEWALK
608.20	CONCRETE STEPS
✓ 609.00F	CONCRETE CURB - CURB & GUTTER - GUTTER
609.15	PAVED DITCHES
✓ 609.40D	DRAIN BASIN, SHLDR. PAVING & FILL SLOPE AT BR. ENDS
609.60	DITCH LINER
609.70A	ROCK LINING FOR CULVERT OUTLETS
610.20A	BRICK MANHOLES (ALSO INCLUDE 610.30)
✓ 611.50D	CONCRETE SLOPE PROTECTION
✓ 612.10E	BARRICADES AND FLASHER SIGNS
✓ 612.20M	STANDARD CONSTRUCTION SIGNS (5 SHEETS) (ALSO INCLUDE 903.00)
✓ 614.10F	CURB INLETS, GRATES & BEARING PLATES
614.30B	MANHOLE FRAMES & COVERS
615.00	OFFICE FOR ENGINEER
617.00K	CONCRETE MEDIAN BARRIER - (3 SHEETS)
✓ 702.01B	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
✓ 702.02	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
703.15B	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS)
703.18	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS) (FLARED WINGS)
703.20B	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)
703.21	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS) (FLARED WINGS)
703.24A	CONCRETE BOX CULVERTS, SKEW DATA (703.15, 703.20, 703.30)
703.25	CONCRETE BOX CULVERTS SKEW DATA (703.15 & 703.21) (FLARED WINGS)
✓ 703.30A	CONCRETE BOX CULVERTS, 4' SPANS & LESS - ALL LOADING
703.35A	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS)
703.36	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS)
703.50C	CONCRETE DOUBLE BOX STRUCTURE - SQUARE
✓ 703.51B	CONCRETE DOUBLE BOX STRUCTURE - SKEWED
703.52A	CONCRETE DOUBLE BOX STRUCTURE - CUT SECTIONS
703.53A	DOUBLE BOX STRUCTURE TOP SLAB REINF. H15 LOADING (5 SHEETS)
✓ 703.54A	DOUBLE BOX STRUCTURE TOP SLAB REINF. H20 OR H20 LOADING (5 SHEETS)
✓ 703.60A	CONCRETE BOX STRUCTURE - PIPE INLET
✓ 706.30B	REINFORCING BAR SUPPORTS
706.35A	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
712.40	STEEL DAMS FOR BRIDGES (6" CHANNEL)
712.41	STEEL DAMS FOR BRIDGES (4" CHANNEL)
712.42	FILLET WELDED TEE JOINT TEST
717.11A	TIMBER BRIDGES - 11' ROADWAY
717.15A	TIMBER BRIDGES - 15' ROADWAY
717.19A	TIMBER BRIDGES - 19' ROADWAY
725.31	METAL CURTAIN WALL AND METAL INLETS
✓ 726.30A	CULVERT INSTALLATION METHODS
731.00H	PRECAST MANHOLES (ALSO INCLUDE 614.30)
✓ 732.00D	FLARED END SECTION (2 SHEETS)
733.00J	PRECAST DROP INLETS (4 SHEETS) (ALSO INCLUDE 614.30 & 614.10)
306.00A	EROSION CONTROL NETTING (INSTALLATION) TYPE I & TYPE II
✓ 806.02	STAPLE PLACEMENT FOR TYPE II JETTING
807.00	GLASS FIBER MAT (INSTALLATION)

✓ NO.	DESCRIPTION
HIGHWAY LIGHTING	
901.00D	POLES & APPURTENANCES - 30' (2 SHEETS)
901.01	POLES & APPURTENANCES - 45' (2 SHEETS)
901.05A	LIGHTING PANEL CABINET DETAILS (2 SHEETS) (NOTE BELOW)
901.12A	POLE MOUNT. CONT. STA.-SEC. SERV.-480 V MULTI. CIR. (NOT METERED)
901.15A	POLE MOUNT. CONT. STA.-SEC. SERV.-120, 240, & 480 V MULTI. CIR.
901.16A	POLE MOUNT. CONT. STA.-SEC. SERV.-480 V MULTI. CIR. (METERED)
901.18E	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR.
901.19A	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (NOT METERED)
901.20A	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR. (SIG. METERED)
901.22A	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 & 480 V MULTI. CIR. (BOTH METERED)
901.23A	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (METERED)
901.24A	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (LTS & SIGS-BOTH METERED)
901.25	BASE MOUNT. CONT. STA.-SEC. SERV.-120-240 V MULTI. CIR.
NOTE:	DRAWING 901.05 INCLUDED WITH DRAWINGS 901.12 THROUGH 901.25 EXCEPT 901.18
TRAFFIC SIGNALS	
902.00A	SIGNAL HEADS, LENSES AND MOUNTING
902.10A	PULL BOXES, CONTROLLERS, COND. INSTAL., POWER SUPPLY
902.30A	CONCRETE BASES
902.40A	TUBULAR STEEL POST
902.50A	DETECTORS
902.60A	SPAN WIRE DETAILS
HIGHWAY SIGNING	
✓ 903.00A	STANDARD ALPHABETS (SILK SCREEN - 5 SHEETS)
903.01	ALPHABETS (CUT OUT - 5 SHEETS)
903.02J	HIGHWAY SIGNING (7 SHEETS)
903.03Q	SIGN MOUNTING DETAILS (7 SHEETS)
903.04	WEIGH STATION SIGNING
903.05A	TUBULAR SPAN SUPPORT - ONE TUBE, TYPE S
903.06A	TUBULAR SPAN SUPPORT - TWO TUBE, TYPE S
903.07A	TUBULAR CANTILEVER SUPPORTS TYPE C
903.08B	TUBULAR BUTTERFLY SUPPORTS, TYPE B
903.09C	LIGHTING SUPPORT BRACKET
903.10H	SIGN TRUSSES - OVERHEAD ALUMINUM (8 SHEETS)
903.12E	SIGN TRUSSES - BUTTERFLY & CANTILEVER - STEEL (7 SHEETS)
903.60G	SIGN TRUSSES - OVERHEAD STEEL (7 SHEETS)

NOTES: Plans for this project were developed using Drawings from this index. Plans issued for this project contain the Drawings checked. If any Drawing(s) is missing, it will be furnished upon notification and its omission will not be cause for claim on this project.