

SCOPE OF SERVICES

The Consultant shall provide professional, and technical design services necessary for the preparation of detailed construction plans, construction specifications, and cost estimates for Job No. JSE0235 – ADA. This work will also include the collection of survey data necessary for the design, utility coordination, and signal timing.

This scope of services is intended to be an accurate description of the elements and tasks required for completion of the design of this project. However, each project is unique and may require more or less effort in an individual task to complete the design. The following information will define, in general terms, the major design elements relating to this project. All 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 element in the scope of services does not, itself, constitute the basis for additional services, supplemental agreements, and/or adjustment in compensation.

A more detailed description of the Commission's requirements for completion of the design may be found in the MoDOT Engineering Policy Guide (EPG). The Consultant is encouraged to review the appropriate sections of the EPG as a means to supplement the information contained in the scope of services and provide additional guidance for the requirements and expectations of the Commission for completion of the design services.

Preparation of a supplemental agreement is necessary prior to performance of any work that is considered additional services by the Commission. The Consultant will not be compensated for additional services performed prior to execution of a supplemental agreement. Only additional services that are required due to unforeseen conditions or due to a change in the specified end product will be considered for inclusion in a supplemental agreement.

The Consultant shall prepare all plans through 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 EPG.

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 Consultant shall review "as-built" plans, aerial imagery, engineering manuals, and other information provided by the Commission and make the necessary field investigations to ensure that there have been no significant changes since the information was recorded or obtained.

Any deviations from Commission established procedures for design, construction, or materials shall be approved through the MoDOT project manager or structural liaison engineer and documented by the Consultant. This documentation shall include a brief justification for the deviation and the signature of the Consultant project manager and/or structural project engineer. Any deviations from the project design criteria that require a design exception, as described in the EPG, shall be documented in accordance with the EPG design exception process.

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 may 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 if needed. 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 using lidar 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. Surveying for entrances (city streets, driveways, etc.) shall be of sufficient accuracy to determine slopes of the entrances and the sidewalk tie-ins to the entrances. The data shall be collected by Lidar for these entrances.
5. 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.

6. Coordinate with District Utility Engineer on underground utility one-call locates and have utilities located in identified areas of proposed project.
7. Complete utilities survey and verify completeness and accuracy of utility topographical survey.
8. 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.

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 MoDOT 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 the MoDOT Project Manager 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 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 the MoDOT Project Manager.
11. Provide assistance and answer utility related questions during the construction phase for MoDOT staff and the roadway contractor.

VI Preliminary Design Phase

The CONSULTANT'S attention is directed to Section 200 of the MoDOT EPG for general guidelines and requirements for preliminary design. Other chapters may be applicable for preliminary design preparation. The purpose of the preliminary design phase is to obtain approval of the general plan format and content. It is anticipated that one project site will be developed during this phase.

1. Upon notice to proceed by the COMMISSION, the CONSULTANT shall undertake the following to develop the preliminary design phase:
 - a. Follow all ADA guidelines as established in the most recent version of the PROWAG, MoDOT EPG, and Guide for the Planning, Design, and Operation of Pedestrian Facilities (AASHTO 2021).
 - b. Collect sufficient survey data to determine the location of existing facilities, utilities, and obstructions. Data should also be collected to complete all design aspects required in the preparation of preliminary and final plans.
 - c. Prepare on an aerial showing the preliminary layout of sidewalks, curb ramps, and pedestrian push buttons.
 - d. Prepare a cost estimate.
2. A Preliminary Field Check will be arranged with the COMMISSION to discuss design features in the project area.

V Right of Way Design (if applicable)

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 $\frac{1}{4}$ $\frac{1}{4}$ 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 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. This will also include KMZ files of the project.

VI Final ADA Design

1. One bid package will be developed for each job number. Upon approval by COMMISSION, the CONSULTANT shall undertake the following to develop the final ADA design phase:

- a. Design curb ramps at street intersections.
 - i. Include Commission provided curb ramp detail standards.
 - ii. Provide special details, as needed, for curb ramps, sidewalk, and driveways. Special details will be provided in highly complex areas.
- b. Design sidewalk through driveways.
 - i. Include Commission provided driveway detail standards.
 - ii. Provide special details, as needed, for sidewalk transitions.
 - iii. Provide detailed driveway profile using software to evaluate the ability to meet design standards and specifications while maintaining feasible vehicle access. If the sidewalks are deemed to be technically infeasible, Design-Exceptions will be provided by the Consultant.
- c. Provide signing and pavement marking plans.
- d. Provide a work zone management plan utilizing standard traffic control details conforming to the requirements of the MUTCD and the MoDOT EPG.
- e. Provide an erosion control plan.
- f. Prepare quantities and quantity sheets.
- g. Prepare plans, bid documents, and job special provisions for submittal to the COMMISSION.

2. The COMMISSION will secure execution of municipal agreements with the cities and/or county agreements if needed. 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.

3. A final design field check will 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.

VII Plans, Specifications, and Estimate (PS&E)

1. The plans, specifications, and estimate shall be prepared in accordance with Section 237 of the EPG. The following list shall be considered as the minimum requirements for a complete set of detailed construction plans and specifications.

- a. Title Sheet
- b. Typical Section Sheets

- c. Quantities Sheets
- d. Plan Sheets (1"=20' for ADA, 1"=100' for Roadway)
- e. Special Sheets
- f. Traffic Control Sheets
- g. Erosion Control Sheets
- h. Pedestrian Signal Sheets
- i. Highway Signing Sheets, including quantity sheets
- j. Job Special Provisions in a Microsoft Word document.
- k. Bid items, quantities, and unit prices in an electronic estimate file generated by the Commission's Bid Tabs.
- l. Workday study
- m. Design exceptions
- n. Signal Timing

2. Additional plans and information may be required to satisfactorily complete the detailed construction plans and specifications for the project. With the submittal of the PS&E package 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 PS&E package is free of gross errors, misleading or confusing typos, and includes adequate information to construct the project.

VIII 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.

IX Drawing and Document Deliverables

1. The Consultant shall prepare all plans through use of a Computer Aided Drafting (CAD) program. Unless otherwise specified, all plan sheets, CAD plots, and other project documents shall be provided to the Commission in electronic format and shall conform to MoDOT's Specifications for Computer Deliverable Contract Plans and file naming convention outlined in Section 237 of the EPG.

2. The Consultant shall furnish the Commission the following completed sheets and documents, as applicable, for each separate project included in this contract:

- a. Deliverables
 - i. Field check and core team meeting summaries.
 - ii. Engineering calculations and analysis in a PDF document.
 - iii. Summary of bid items and estimate of the construction costs. The estimate shall be prepared using the latest version of Bid Tabs.
 - iv. 100% complete unsigned and unsealed final design plans and job special provisions.
 - v. 100% complete signed and sealed final design plans and job special provisions.

X Design Standards & Specifications

1. The Consultant shall use the latest version of the following publications as acceptable to determine the design criteria and procedures which will be followed for development of the project:

- a. MoDOT's Engineering Policy Guide (EPG)
- b. MoDOT's Specifications for Computer Deliverable Contract Plans
- c. Missouri Standard Plans
- d. Missouri Standard Specifications for Highway Construction
- e. AASHTO's Manual on Uniform Traffic Control Devices (MUTCD)
- f. AASHTO's A Policy on Geometric Design of Highways and Streets and any other publications which the Engineer directs the Consultant to use.

g. PROWAG

h. AASHTO's Guide for the Planning, Design, and Operation of Pedestrian Facilities (2021)

Services Provided by the Commission

1. The Consultant shall be responsible for completing all roadway design work for this project, except for the following items to be provided by the Commission:

- A. All necessary environmental and cultural resource studies.
- B. "As-built" plans for prior State highway improvements within the project limits.
- C. Project beginning and ending log mile points, and other log mile reference points (as deemed necessary by MoDOT's project manager).
- D. Electronic copies of all necessary special sheets and standard format sheets will be provided in DGN format. MoDOT standard plans, Missouri Standard Specifications for Highway Construction, standardized job special provisions, and Engineering Policy Guide (EPG) are available at <http://www.modot.org/business>.
- E. Standardized traffic control plans.
- F. Seeding and fertilizing application rates.
- G. Contract completion date.

2. The Consultant shall proceed with final design and preparation of detailed 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).

PERIOD OF SERVICE

The CONSULTANT shall make submittals in accordance with the schedule described below, assuming a Notice to Proceed by January 30, 2026.

Preliminary Plans by May 15, 2026

Right of Way Plans (if applicable) by June 15, 2026

100% unsigned & unsealed Roadway Plans by December 4, 2026

Final signed & sealed Roadway Plans, Job Special Provision, Final Construction Estimate and Working Day Study by January 15, 2027

PERIOD OF SERVICE - The total period of service including construction services is expected to be completed by May 31, 2029.

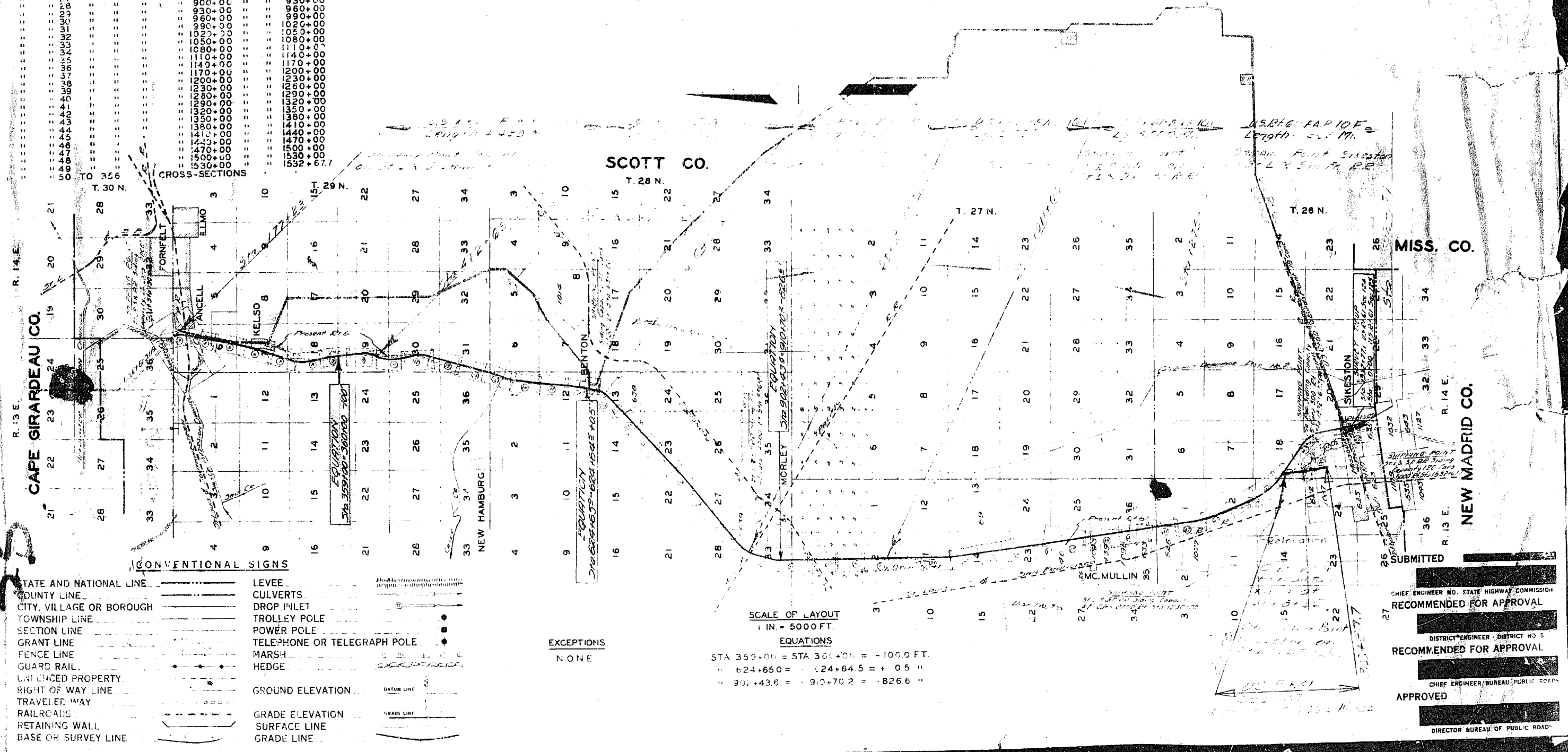
INDEX OF SHEETS		
SHEET NO.	TITLE PAGE	TOTAL SHEETS
1	TYPICAL CROSS-SECTION OF IMPROVEMENT	200+00
2	PLAN & PROFILE STA. 177+25 TO STA. 200+00	230+00
3	200+00 TO 230+00	260+00
4	230+00 TO 260+00	290+00
5	260+00 TO 290+00	320+00
6	290+00 TO 320+00	350+00
7	320+00 TO 350+00	380+00
8	350+00 TO 380+00	410+00
9	380+00 TO 410+00	440+00
10	410+00 TO 440+00	470+00
11	440+00 TO 470+00	500+00
12	470+00 TO 500+00	530+00
13	500+00 TO 530+00	560+00
14	530+00 TO 560+00	590+00
15	560+00 TO 590+00	620+00
16	590+00 TO 620+00	650+00
17	620+00 TO 650+00	680+00
18	650+00 TO 680+00	710+00
19	680+00 TO 710+00	740+00
20	710+00 TO 740+00	770+00
21	740+00 TO 770+00	800+00
22	770+00 TO 800+00	830+00
23	800+00 TO 830+00	860+00
24	830+00 TO 860+00	890+00
25	860+00 TO 890+00	920+00
26	890+00 TO 920+00	950+00
27	920+00 TO 950+00	980+00
28	950+00 TO 980+00	1010+00
29	980+00 TO 1010+00	1040+00
30	1010+00 TO 1040+00	1070+00
31	1040+00 TO 1070+00	1100+00
32	1070+00 TO 1100+00	1130+00
33	1100+00 TO 1130+00	1160+00
34	1130+00 TO 1160+00	1190+00
35	1160+00 TO 1190+00	1220+00
36	1190+00 TO 1220+00	1250+00
37	1220+00 TO 1250+00	1280+00
38	1250+00 TO 1280+00	1310+00
39	1280+00 TO 1310+00	1340+00
40	1310+00 TO 1340+00	1370+00
41	1340+00 TO 1370+00	1400+00
42	1370+00 TO 1400+00	1430+00
43	1400+00 TO 1430+00	1460+00
44	1430+00 TO 1460+00	1490+00
45	1460+00 TO 1490+00	1520+00
46	1490+00 TO 1520+00	1550+00
47	1520+00 TO 1550+00	1580+00
48	1550+00 TO 1580+00	1610+00
49	1580+00 TO 1610+00	1640+00
50	1610+00 TO 1640+00	1670+00

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

FEDERAL AID PROJECT

FED. ROAD DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	17	1929	1	7
DIV. NO.	COUNTY	ROUTE	SECTION NO.		
10	SCOTT	61	7		

PLAN 1 IN. = 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS-SECTIONS 1 IN. = 5 FT.



CONVENTIONAL SIGNS

- | | | | |
|--------------------------|-------|-----------------------------|------------|
| STATE AND NATIONAL LINE | ..... | LEVEE | ..... |
| COUNTY LINE | ----- | CULVERT | ..... |
| 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 | ..... |  |  |
| RIGHT OF WAY LINE | ----- | GROUND ELEVATION | DATUM LINE |
| TRAVELED WAY | ----- | GRADE ELEVATION | GRADE LINE |
| RAILROADS | ----- | SURFACE LINE | |
| RETAINING WALL | ----- | GRADE LINE | |
| BASE OR SURVEY LINE | ----- | | |

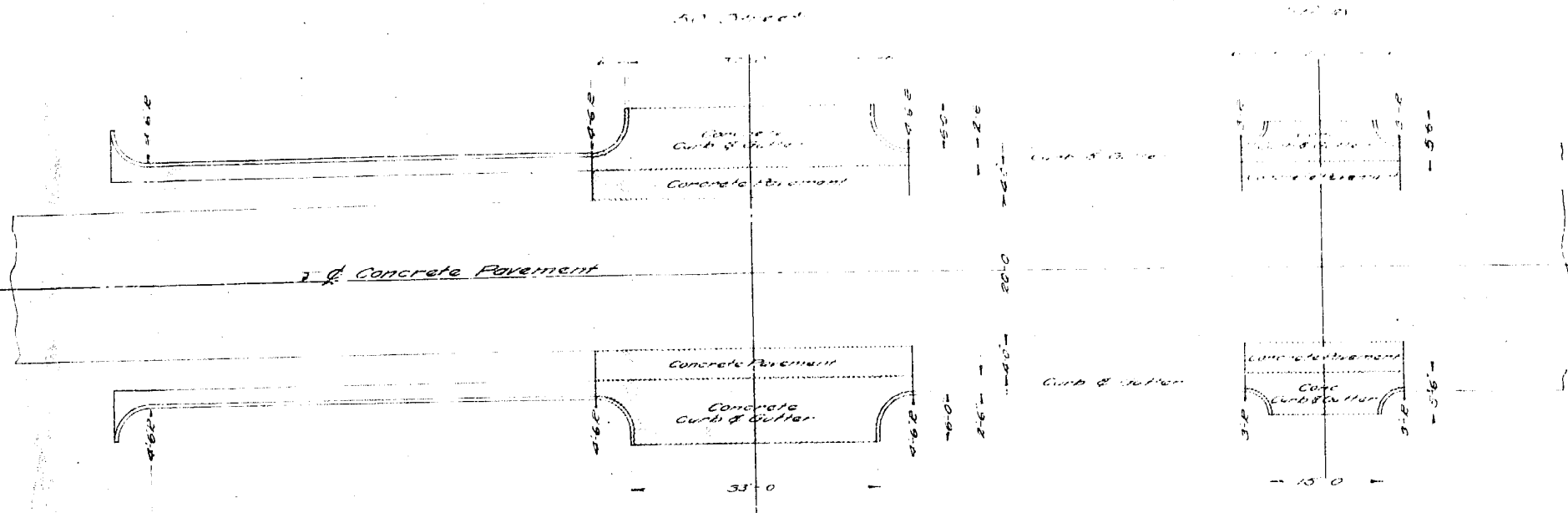
EXCEPTIONS
NONE

SCALE OF LAYOUT
1 IN. = 5000 FT.

EQUATIONS
STA 359+00 = STA. 300+00 = -100.0 FT.
" 624+650 = " 24+64.5 = + 0.5 "
" 902+43.6 = " 910+70.2 = -826.6 "

RECOMMENDED FOR APPROVAL
RECOMMENDED FOR APPROVAL
APPROVED
DIRECTOR BUREAU OF PUBLIC ROADS

THIS SHEET	NO. 5	TOTAL SHEETS	10
PROJECT	MO.	DATE	1-1-50
COUNTY	SCOTT	DATE	1-1-50
NO.	10	TOTAL SHEETS	10

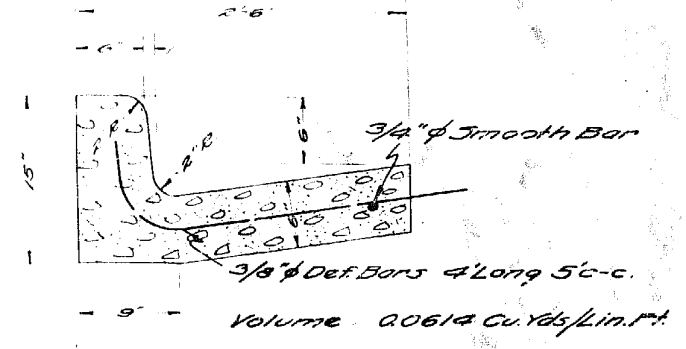


PLAN OF STREET APPROACH & ALLEY ENTRANCE

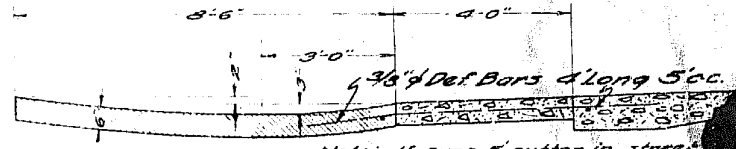
ADDITIONAL CONCRETE FOR STREET & ALLEY APPROACHES

33' Street Approach
15' Alley Entrance

Note: Cost of constructing street approaches & alley entrances to be completely covered by unit price bid per lin. ft. of curb & gutter. This does not include that area marked "Concrete Pavement".

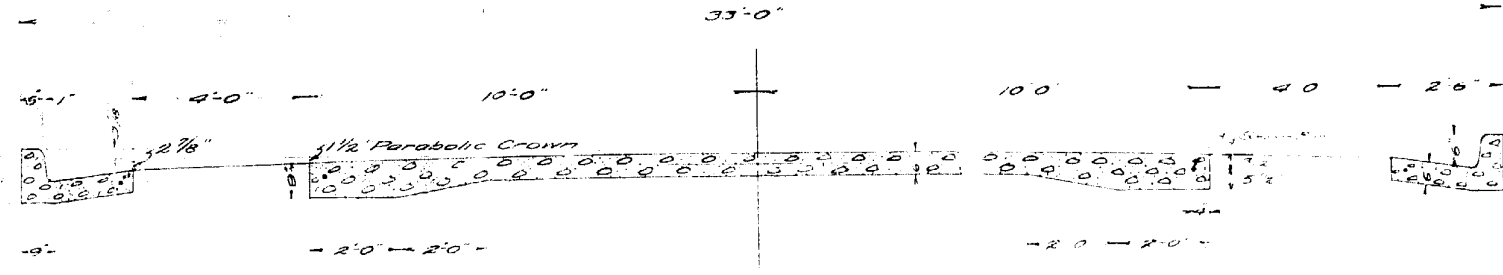


CURB & GUTTER SECTION



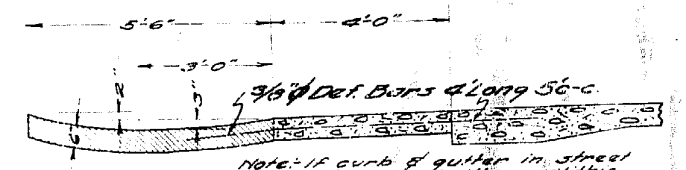
STREET APPROACH SECTION

Note: If curb & gutter in street approaches are built monolithic with pavement 3/8" ϕ deformed bars may be omitted.



X-SECTION OF STREET

See Sheet 1-A for details of slur



ALLEY ENTRANCE SECTION

Note: If curb & gutter in street approaches are built monolithic with pavement 3/8" ϕ deformed bars may be omitted.

**TYPICAL SECTIONS U.S. RT. 61 - SEC. 124
SCOTT COUNTY**

Name of road **ANGELL TO SIKESTON**
 Type of Improvement **20 FT. P.C.C. PAVEMENT**

MISSOURI STATE HIGHWAY COMMISSION
ESTIMATE SHEET

County of **SCOTT**
 Length **4.990** Miles

PROJ. ROAD DIST. NO.	STATE PROJECT YEAR	FED. AID PERCENT	ESTIMATE YEAR	TOTAL SHEETS
5	MO. 10-F	2.4	11	11
COUNTY				EST. NO.
10 SCOTT				61
FINAL PLANS				

REINFORCED CONCRETE BOX CULVERTS

Sta.	CLA'	CLC'	SG	OH	Bar	STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS		
1285+00						1361+00	C-242	2x1.5	42	8.25	1293	27.3			
1291+90	3.195	2.53				1388+00	C-243	3x3	38	14.74	1670	18.4	Special		
1297+30	1.19	2.70				1401+00	C-243	3x2	42	11.16	1637	18.4			
1312+14	2.880	6.74				1440+00	C-243	3x2	41	10.94	1600	26.4			
1317+00	9.82	1.80				1455+00	C-243	3x2	41	10.94	1600	32.4			
1319+13	4.53	7.9				1470+00	C-244	4x2.5	42	14.46	1998	32.6			
1331+90	2.289	6.43				1523+00	C-243	3x2	40	10.72	1575	15.4			
1334+30	4.48	1.34				TOTAL						81.21	11,385	171	

PIPE CULVERTS C-230 HWLs.

Sta.	18" Conc	Steel	Side	Remarks
1301+82	26	0.27	48	Steel Order 60° skew
1321+25	30	0.97	74	Lt.
1350+79	34	0.97	79	Lt. Steel Order 20° skew
1356+85	34	0.97	79	Lt.
TOTAL				134

PIPE CULVERTS F.E.

Sta.	18"	24"	Side	
1303+04			Rt.	
1307+04			Lt.	
1313+29			Lt.	
1321+38			Rt.	
1333+72			Rt.	
1336+76			Rt.	
1346+55			Lt.	
1361+63			Lt.	
1385+55			Rt.	
1392+30			Rt.	
1392+35			Lt.	
1413+62			Lt.	
1422+07			Rt.	
1427+26			Rt.	
1476+16			Lt.	
1476+80			Rt.	
1500+65			Rt.	
1501+18			Lt.	
1510+85			Rt.	
1520+95			Rt.	
TOTAL				436

CONCRETE CURB & GUTTER

Sta.	Sta.	Side	Lin. Ft.
1522+103	1530+114	R+L	1601.6

BARRICADES

Sta.	Side	No.	
1301+50	Rt.	1	
1303+00	Lt.	1	
1357+00	R+L	2	
1450+00	Rt.	1	
1478+00	Rt.	1	
1479+00	Rt.	1	
1532+015	E	1	
TOTAL			8

RELOCATING BARRICADES

NONE

EXPANSION & CONTRACTION JOINTS

Pre-Moulded Bituminous Expansion Joints	325
Additional for Intersections	3
TOTAL	328
Contraction Joints	323
Additional for Intersections	2
TOTAL	325

REINFORCED CONCRETE BOX CULVERTS - UNITS

Concrete	81.21
Reinf.	11,385
Excav.	171

LENGTH OF PROJECT

End of Project	Station	1532+70
Beginning of Project	Station	1275+00
Apparent Length		2577.7
Equations and Exceptions:		
Total Corrections		+ 572.4
Net Length of Project	Feet	26350.1
	Miles	4.990

EQUATIONS

Sta.	Sta.	Diff.	
1310+00	1309+98	+ 2.4	
1349+18	1349+21	- 3.0	
1390+59	1390+61	- 1.6	
1425+29	1425+32	- 3.0	
1520+34	1520+56	+ 578.0	
1532+76	1532+77	- 0.4	
TOTAL			+ 572.4

20' P.C.C. PAVEMENT

LIP CURB OMISSIONS

STATION	STATION	SIDE	LIN. FT.	
1275+00	1466+00	R+L	3820.00	
1470+00	1511+00	R+L	8080.00	
1510+00	1532+77	R+L	22669.4	
TOTAL OMISSIONS				50000.4
CHAINED LENGTH PAVEMENT			26350.1	
EXCEPTIONS			- 4.0	
Highway R.R. Spur			- 10.2	
Mo. Pac. R.R. Tracks			- 23.6	
U.S. Route 60			- 9.2	
TOTAL EXCEPTIONS				- 47.0
Net Chained Length			26303.1	
Additional for R. Intersection			260.7	
Additional for Street & Alley Turnouts			185.3	
Total Pavement			59597.3	

RAILROAD CROSSINGS

Sta.	Conc	Steel	Eye Bolts	Remarks			
1531+14	5.72	11.42	24	Highway Spur			
1531+88.3	15.13	29.00	46	Mo. Pac. R.R.			
1532+59.5	3.53	9.79	12	Shoe Factory Spur Lt.			
TOTAL					24.38	5021	82

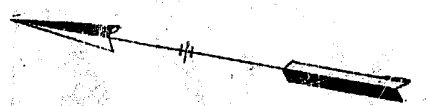
SURFACE DRAIN BASINS

Sta.	No. Basins	Side	Drains		
1514+91	1	Rt.	12.5		
1519+00	1	Rt.	12.5		
TOTAL				2	25.0

SUMMARY SHEETS

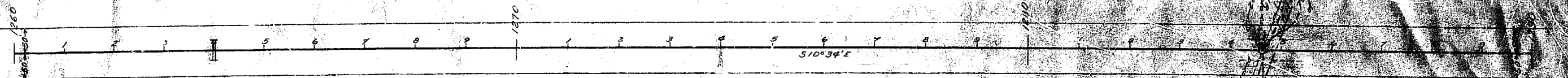
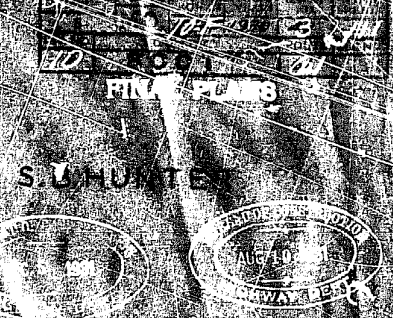
Original Plans	Final Plans
Sta. 1275+00 to 1532+70	Sta. 1275+00 to 1532+70
Length 2577.7	Length 26350.1
Equations + 572.4	Equations + 572.4
Net Length 26350.1	Net Length 26350.1
Equations	Equations
1275+00	1275+00
1532+70	1532+70
Length 2577.7	Length 26350.1
Equations + 572.4	Equations + 572.4
Net Length 26350.1	Net Length 26350.1

MATTIE MC MULLIN



Note:
All buildings & fences within
limits of R.W. to be removed by
Property Owner previous to
construction

Cultivated



Sta. 264+00 Build
C-242/241.5/42 Long
As Equalizer
Culv Exc. 26 Cu.Yds.

cultivated

Sta. 1275+00

MATTIE MC MULLIN

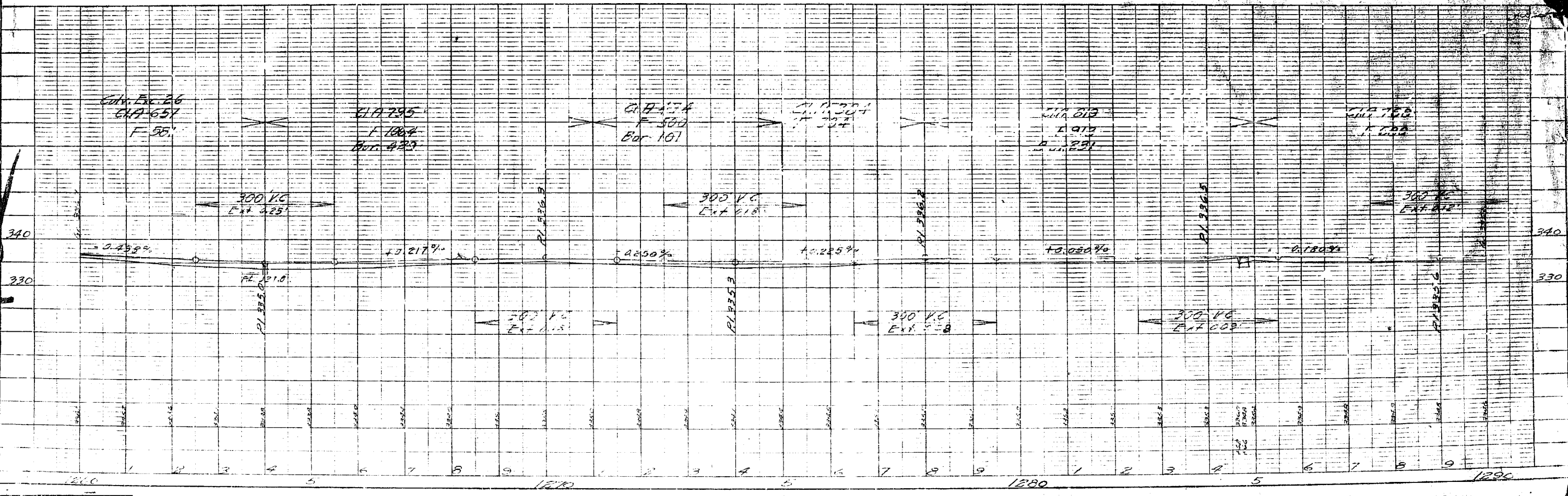
Clearing & Grubbing			
Sta	Sta	Clearing Units	Grubbing Units
1284+50	1285+00	6	4
Total		6	4

Sta. 264+15 Build
C-242 F.E. Appr
on E.H.G. Lt.
Fill 12 Cu.Yds.

S.B. HUNTER

End U.S. Rt. 61
F.A. Proj. 10E

Beginning U.S. Rt. 61
F.A. Proj. 10F

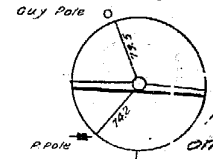


S.B.HUNTER

FILE NO.	107	DATE	1952
DIST.	107	BY	SCOTT
PROJECT	SCOTT		
SCALE	1" = 100'		

Sta. 1302+00 Build
18" Pipe SE Appr 30 Long
on Lt with C-230 Hd w/ls
Fill 10 Cu.Yds.

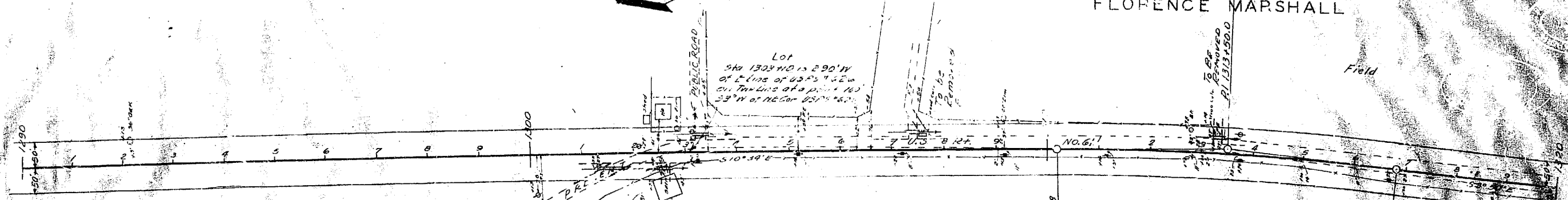
Sta. 1304+00 Build
18" Pipe FE Appr 20 Long
on Lt Fill 10 Cu.Yds.



Sta. 1306+00 Build
18" Pipe FE Appr 20 Long
on Lt Fill 10 Cu.Yds.

FLORENCE MARSHALL

Field



Sta. 1302+30 Build
18" Pipe SE Appr 36 Long
on Rt with C-230 Hd w/ls
Fill 10 Cu.Yds. Skew 60°

Sta. 1304+00 Build
18" Pipe FE 20 Long
on Rt Fill 10 Cu.Yds.

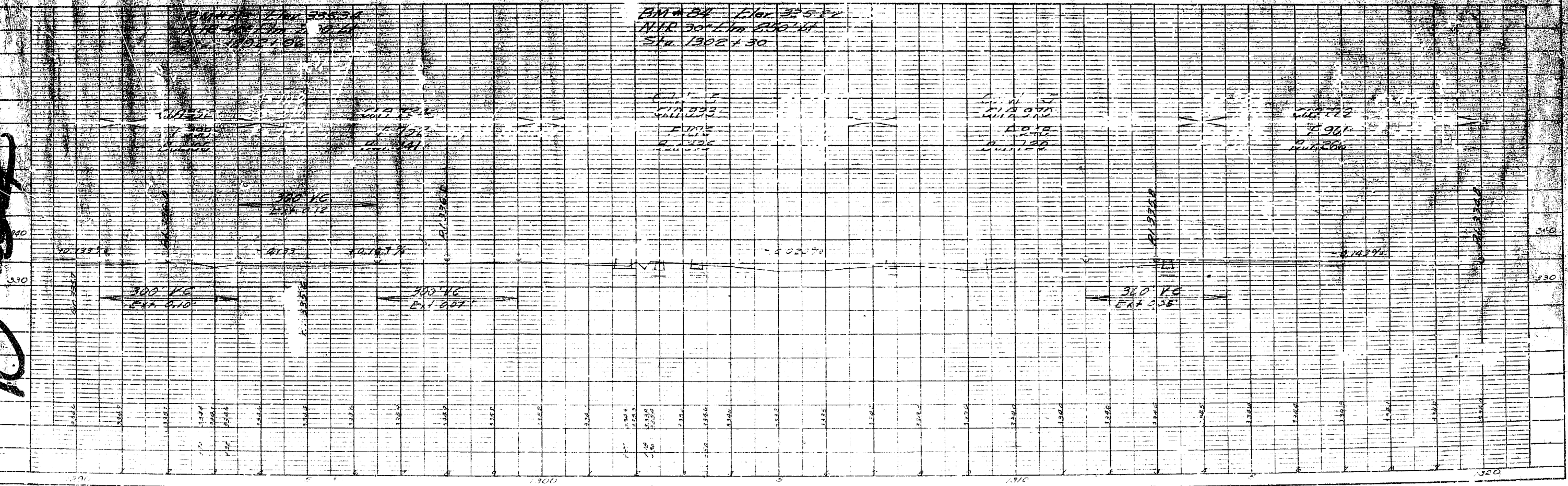
Field Note:-
Between Sta. 1302+00 & 1306+00
Surface of Old Road within limits
of Roadway to be Scarified &
Cost to be included in unit price
bid on C.R. Excavation

$\Delta = 0.371$ ft
 $D = 1'$
 $T = 391.2$
 $L = 661.7$
 $R = 51287$
Super 11.11% Per ft.

S.B.HUNTER

S.B.HUNTER

Field

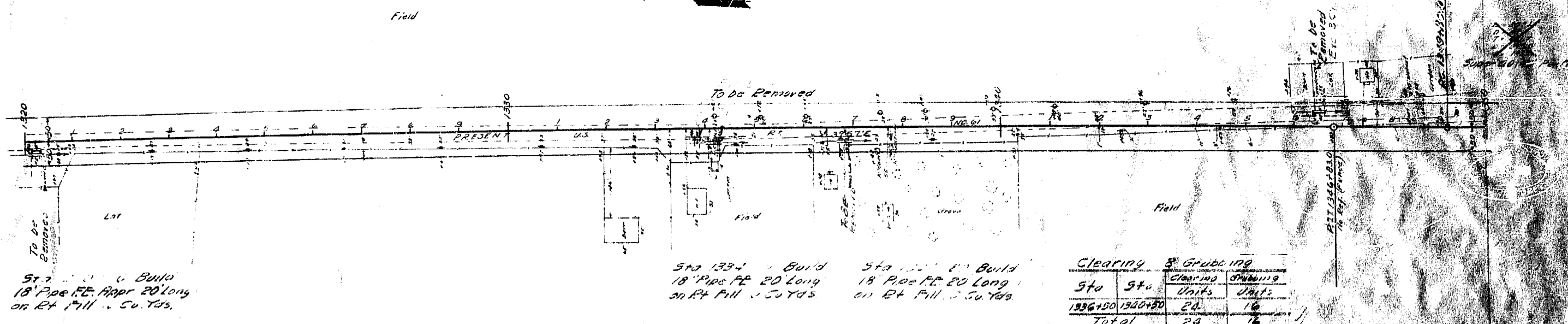


FLORENCE MARSHALL

Sta 1346+55 Build
18" Pipe P.E. 20' Long
on Lt. Fill 10 Cu. Yds.

FED. ROAD DIST.	SCALE	DATE	BY	TOTAL SHEETS
5	1" = 100'	1990	AS	7
LAJ. NO.	DOT	ROUTE	SEC. NO.	
10	300'	61		

A = 10' 48" Lk
D = 2' 00"
T = 4834
L = 940'
P = 2355'



Sta 1337+00 Build
18" Pipe P.E. 20' Long
on Rt. Fill 10 Cu. Yds.

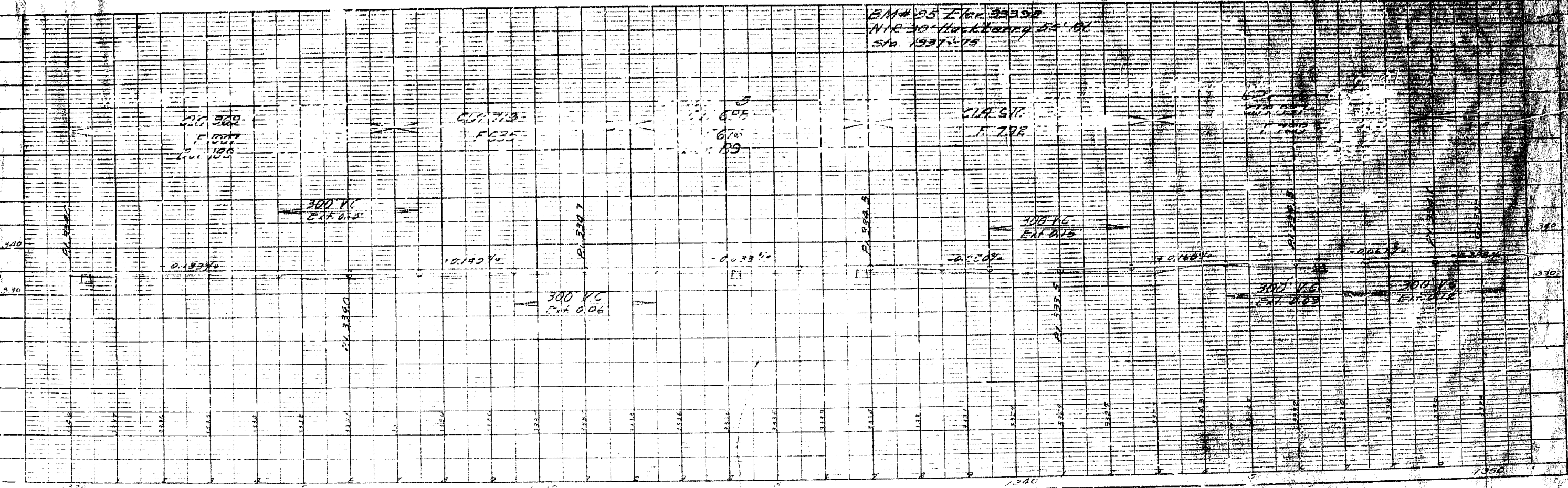
Sta 1337+00 Build
18" Pipe P.E. 20' Long
on Rt. Fill 10 Cu. Yds.

Sta 1337+00 Build
18" Pipe P.E. 20' Long
on Rt. Fill 10 Cu. Yds.

Clearing		Grubbing	
Sta	Sta	Units	Units
1336+50	1340+50	24	16
Total		24	16

S. B. HUNTER

BM# 25 Elev. 333.98
NIR 30" Hacking 25' RL
Sta 1337+75



SALLY HUNTER, HAYWARD

Sta 1361+00 Build
 58' Pipe 24.5' Long
 75 Equ. 21.5' Equ.
 CUL EX. 100 Yds.

Sta 1359+00 Build
 18' Pipe 20' Long
 on 24' Fill 20' CUL EX.

Sta. 1369+00 Build
 Earth 1.2' Approach
 24' 5" Pipe 40' CUL EX.

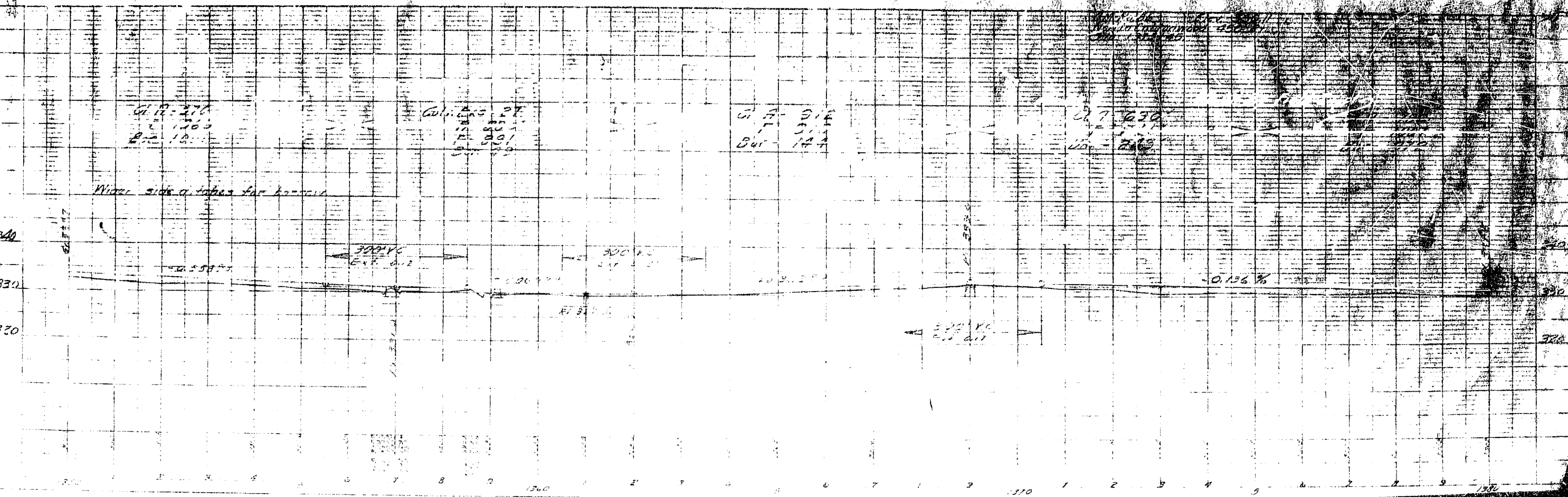
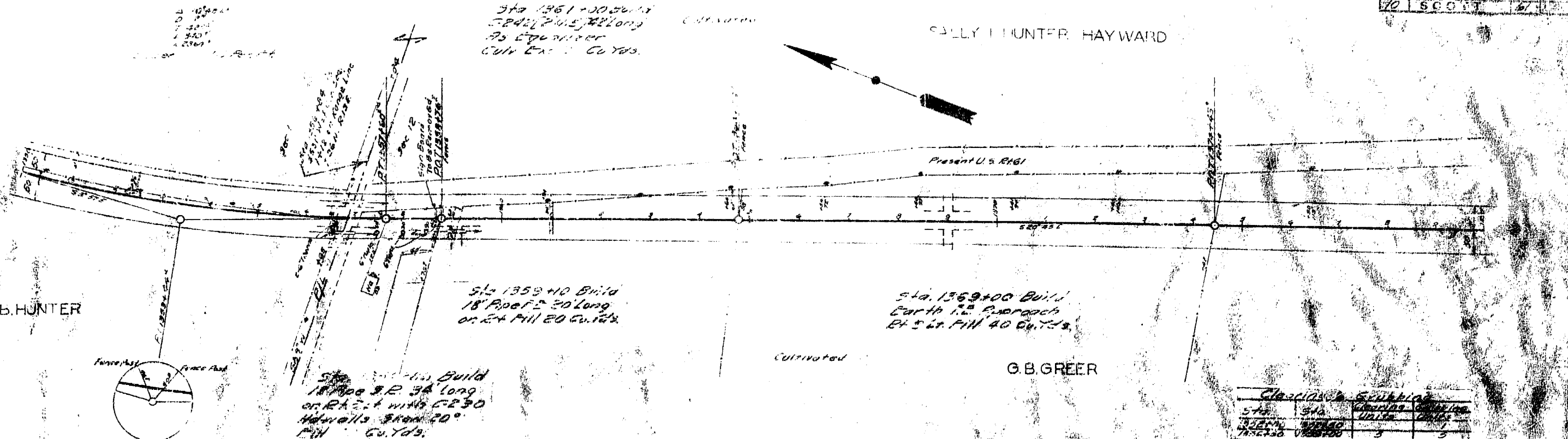
G.B. GREER

Sta. 1358+00 Build
 18' Pipe 20' Long
 on 24' Fill 20' CUL EX.

Sta.	Sta.	Quantity	Quantity
31200	31250	31250	31250
31200	31250	3	3

S.B. HUNTER

Cultivated



Sta. 1367+00
 18' Pipe 20' Long
 on 24' Fill 20' CUL EX.

CUL. EX. 20' Yds.
 12' 30' 30' 30'

Sta. 1368+00
 18' Pipe 20' Long
 on 24' Fill 20' CUL EX.

Sta. 1369+00
 18' Pipe 20' Long
 on 24' Fill 20' CUL EX.

Width side of road for 1367+00

300' VC
 500' VC

0.55%

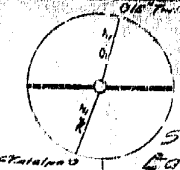
0.136%

0.12%

Note:-
All buildings within
limits of R/W to be removed
by Property Owners Previous
to Construction

SALLY L. HUNTER RAYMARD

MC 7-1120
70 SCOTT

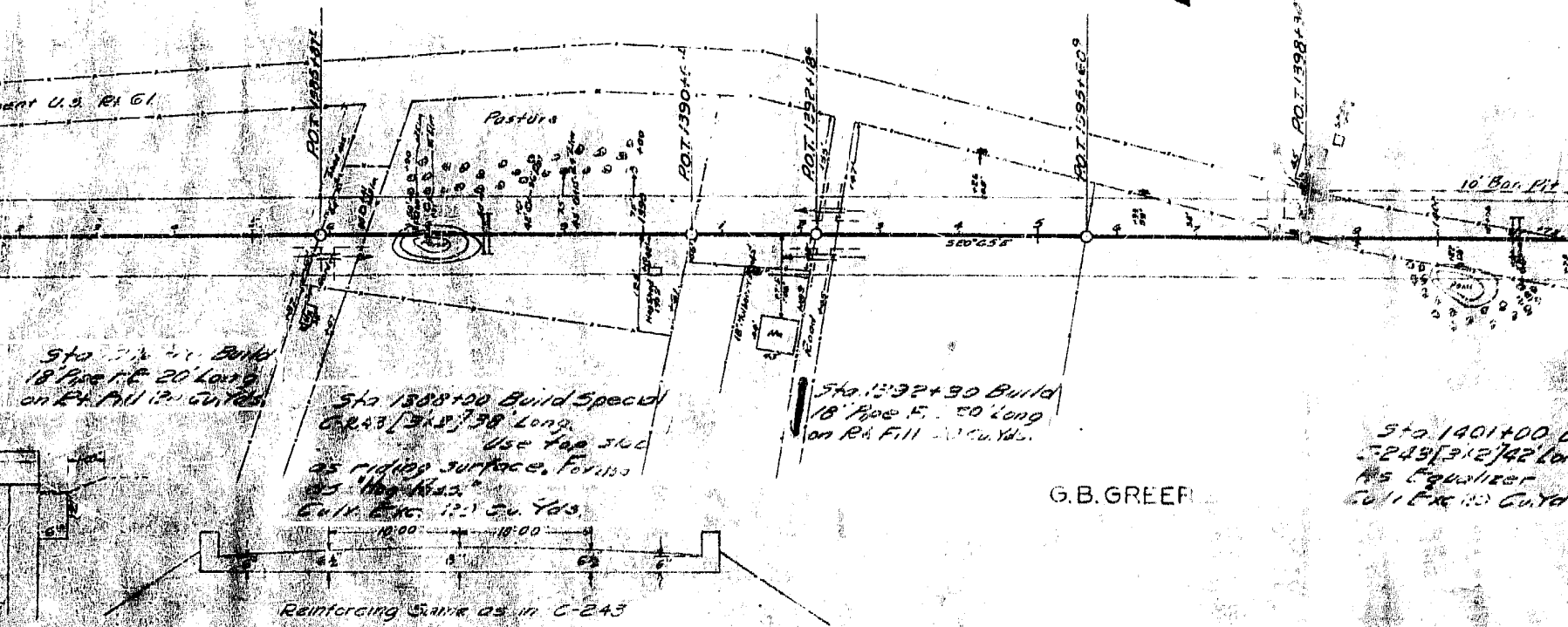


Sta 1375+00 Build
18' Pipe 15' 20' Long
on R/W Fill 10 Cu Yds.

Sta 1385+00 Build
Earth E Approach
on R/W Fill 10 Cu Yds.

Sta 1405+00 Build
Earth E Approach
on R/W Fill 10 Cu Yds.

Note:-
Conic Storm Cellar
at Sta 1306+25
to be removed &
back filled & hand
tamped
C/C 10 Cu Yds
Fill 30 " "



Sta 1375+00 Build
18' Pipe 15' 20' Long
on R/W Fill 10 Cu Yds.

Sta 1388+00 Build Speed
C-243 [3x12] 38' Long
Use Top 3/4 C
as riding surface. For 100
25' High Max.
Exc 10 Cu Yds

Sta 1392+90 Build
18' Pipe 15' 20' Long
on R/W Fill 10 Cu Yds.

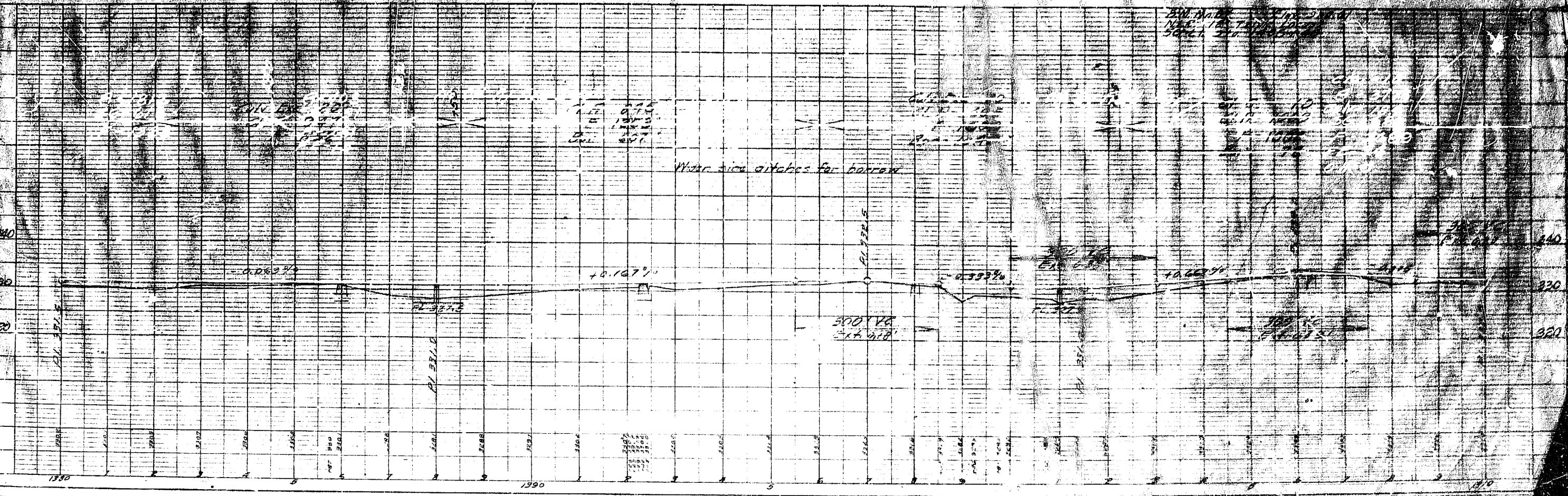
Sta 1401+00 Build
[24x31x2] 42' Long
15 Equalizer
Exc 10 Cu Yds.

Station	Quantity	Material
1375+00	10	Cu Yds
1388+00	10	Cu Yds
1392+90	10	Cu Yds
1401+00	10	Cu Yds
1405+00	10	Cu Yds

Side Walls
to be
excavated
with
excavator
and
backfilled
with
excavator
fill

Reinforcing Bank as in C-243

G.B. GREEN



Exc 10 Cu Yds
Fill 30 " "

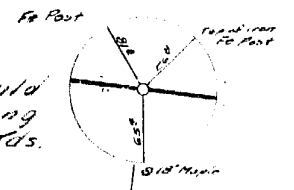
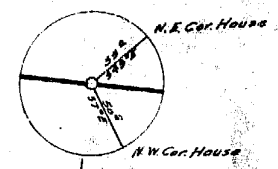
Water side ditch for borrow

500'VA
24' dia

10' Bar Pit

340
330
320

MS. 112. 1960. 22
 10 55 11 11



G. B. GREER

Sta 1422+0 Build
 18" Pipe P.E. 20' Long
 on Lt. Fill 13.5 Cu Yds.

SALLY I. HUNTER HAYWARD

Sta 1422+0 Build
 18" Pipe P.E. 20' Long
 on Lt. Fill 13.5 Cu Yds.

Sta 1422+0 Build
 18" Pipe P.E. 20' Long
 on Lt. Fill 13.5 Cu Yds.

Sta 1422+14 Build
 Earth P.E. Approach
 on Rt. Fill 1.5 Cu Yds.

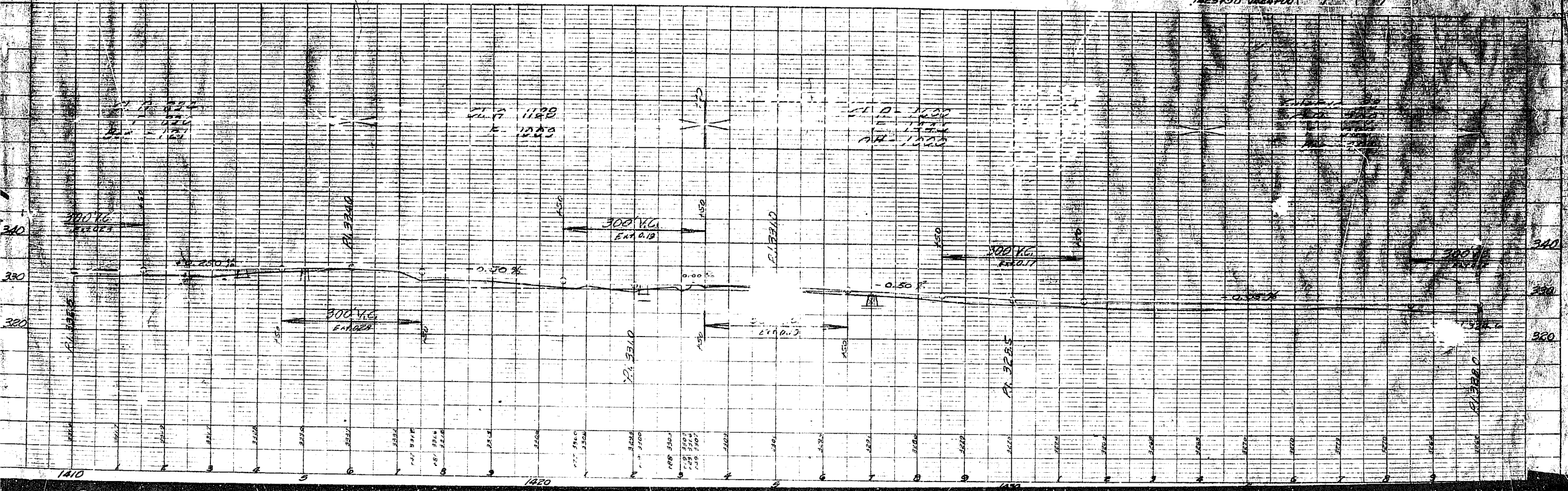
Sta 1422+18 Build
 18" Pipe P.E. 20' Long
 on Rt. Fill 2.0 Cu Yds.

G. B. GREER

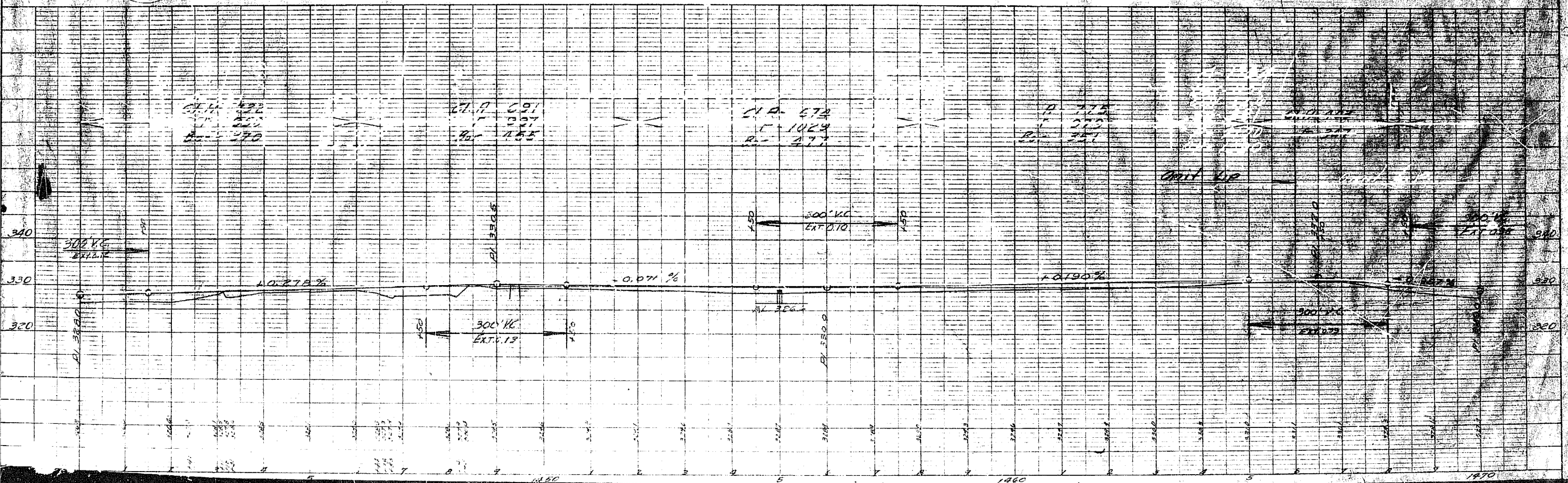
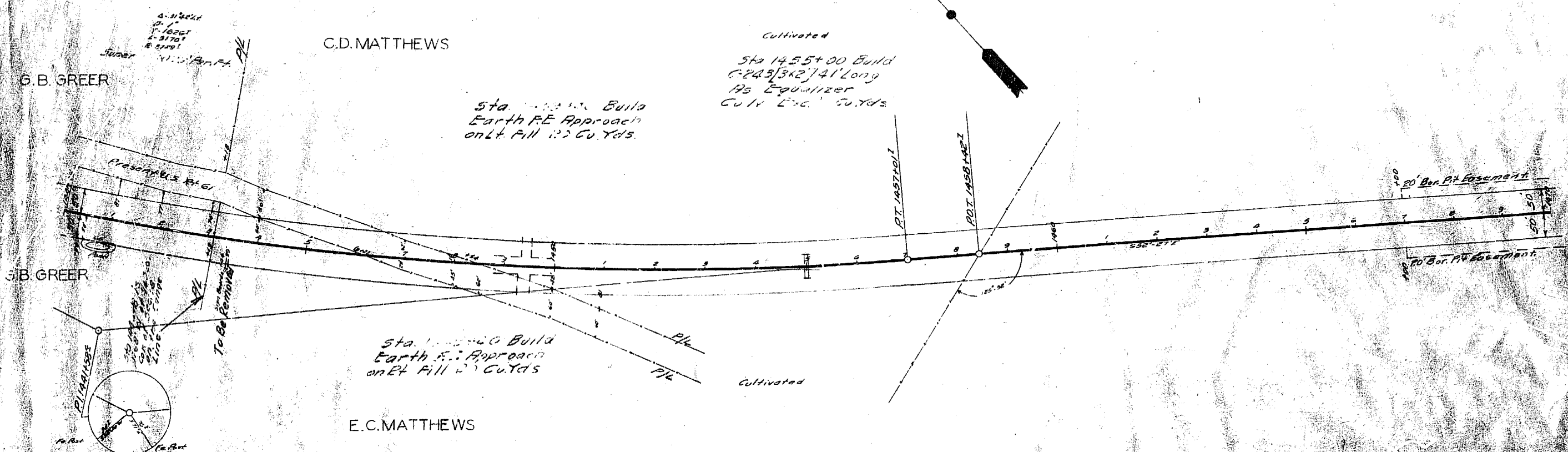
Sta 1422+18 Build
 18" Pipe P.E. 20' Long
 on Rt. Fill 2.0 Cu Yds.

Clearing & Grubbing

Sta	Sta	Quantity	Quantity
		Units	Units
1418+50	1419+00	1	1
1418+50	1419+00	1	1
1422+00	1422+50	2	2
1422+50	1423+00	1	1

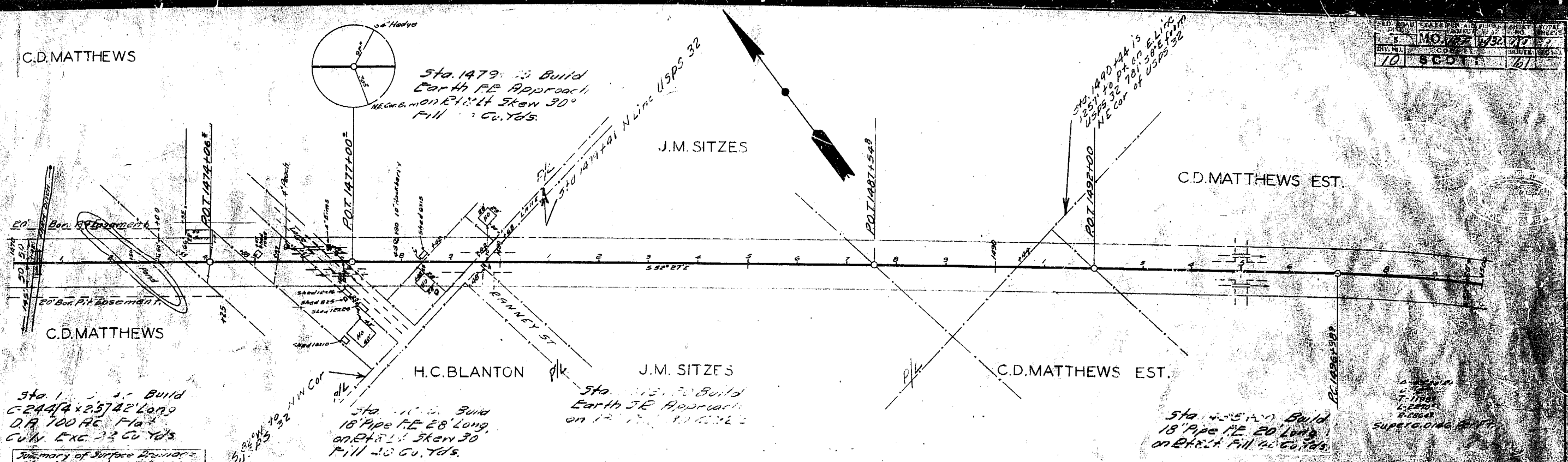


DIST.	5	MO.	10	YEAR.	1930	ASST.	ASST.
PLAN NO.	10	CITY.	SCOTT	SCALE.	1" = 20'	SHEET NO.	2



C.D. MATTHEWS

SCALE PER ANCHOR	1" = 40'
DATE	MAY 1927
DIV. NO.	10
PROJECT	MO. 122
DATE	1927
NO.	10



Sta. 1470+00 Build
C-24x4 x 2.5' 42' Long
D.A. 100 AC Flat
CULV EXC 33 Cu Yds

Summary of Surface Boundaries
Sta. 1470+00 to 1500+00

Sta	Prop. in	Surf Drain
1470+00	2	14
Total	2	28

Sta. 1477+00 Build
18" Pipe FE 28' Long
on Right Skew 30°
Fill 20 Cu Yds.

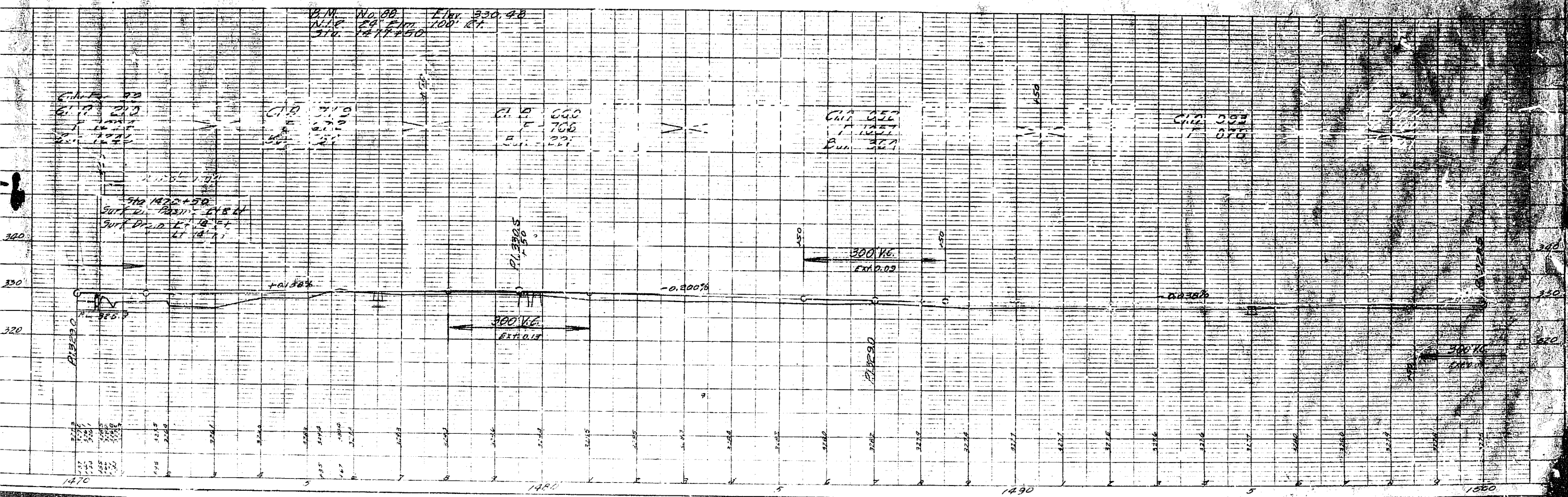
Sta. 1487+54 Build
Earth SE Approach
on Right Skew 30°
Fill 20 Cu Yds.

Sta. 1492+00 Build
18" Pipe FE 20' Long
on Right Fill 40 Cu Yds.

Clearing & Grubbing

Sta.	Sta.	Clearing	Grubbing
1470+50	1478+00	8	8

D.M. No. 88
D.A. 100 AC
Sta. 1477+50



C.D. MATTHEWS EST.

PT 1508+97

Sta 1523+00 Build
 24" Pipe F.F. Equalizer
 Cul. Exc. 100 Yds

LILLIAN A SMITH

JOHN LOUIS TANNER

Sta 1514+00 Build
 18" Pipe F.F. Approach
 20' Long on R & L
 Fill 400 cu. Yds

M. Q. TANNER

C.D. MATTHEWS EST.

4-45' 24" R
 D. 1508
 T. 1510
 L. 2800
 S. 2800
 Super. 1510 Par Ft

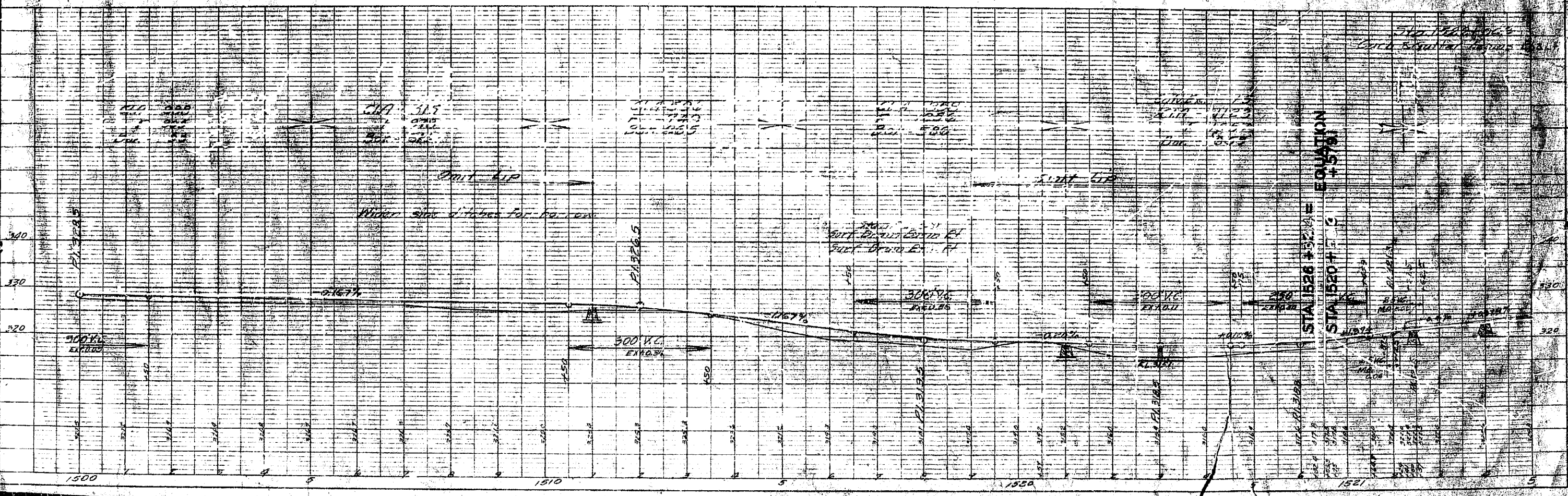
Sta 1510+00 Build
 24" Pipe F.F. 20' Long
 on R. Fill 100 Yds.

Summary of Surf Drainage
 Sta. 1520+00 to 1524+32.4

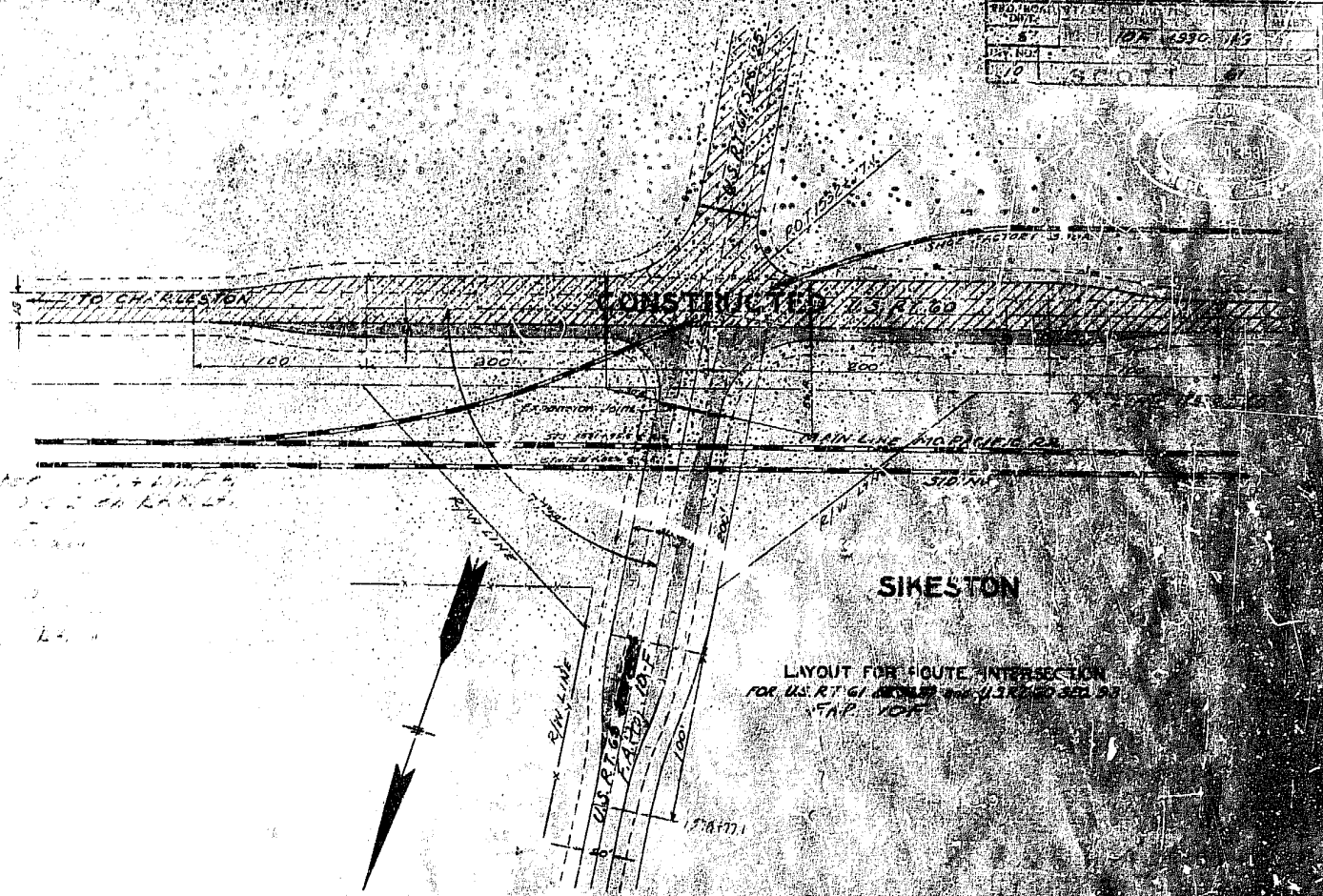
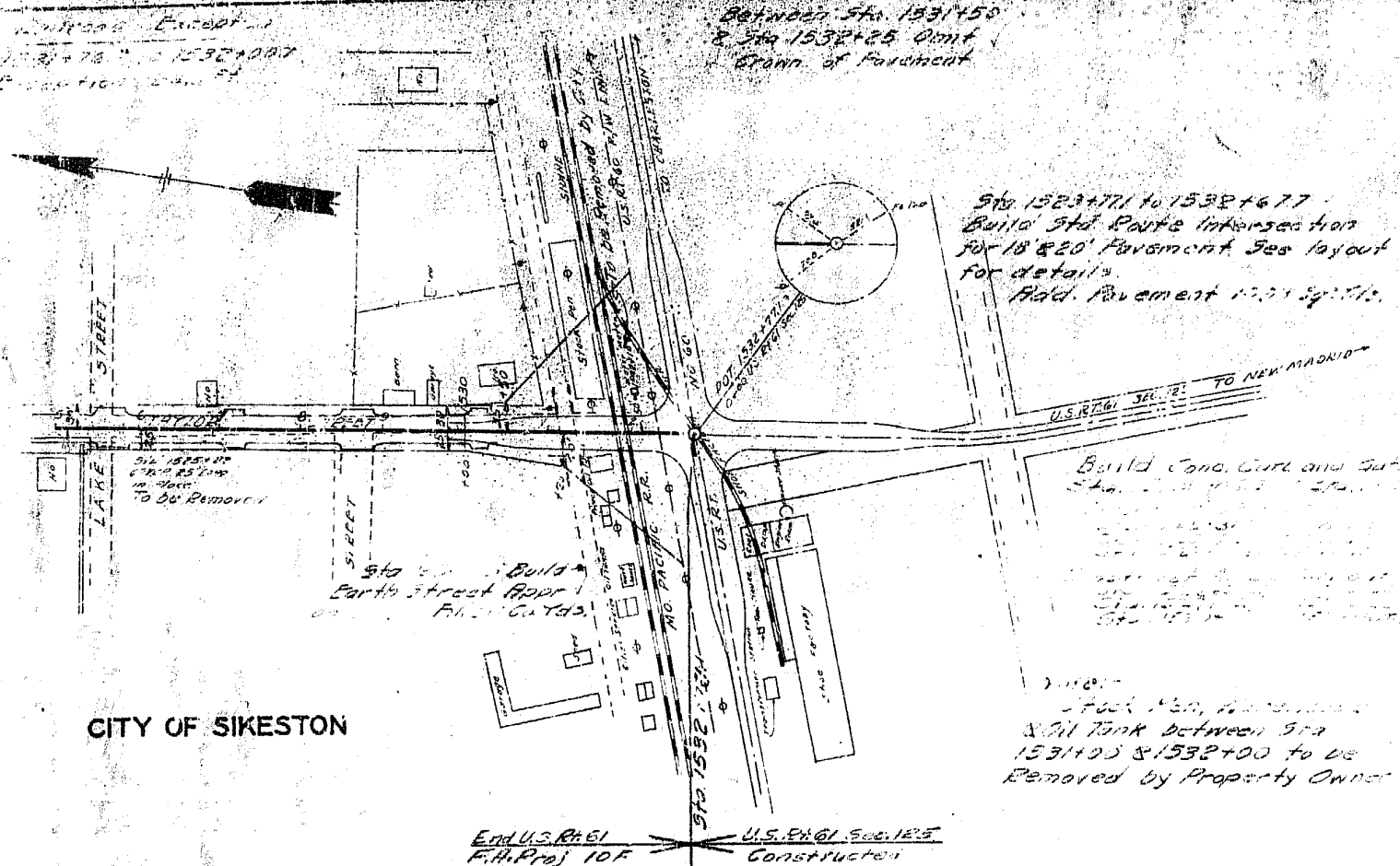
Sta	No. of Basins	ET	LT
1520+00	1		
1521+00	1		
1522+00	1		
1523+00	1		
1524+32.4	1		
Total	5		

C. S. TANNER

CITY OF SKESTON



DATE	10/27/1930
BY	JAS
CHECKED	
SCALE	AS SHOWN



CITY OF SIKESTON

SIKESTON

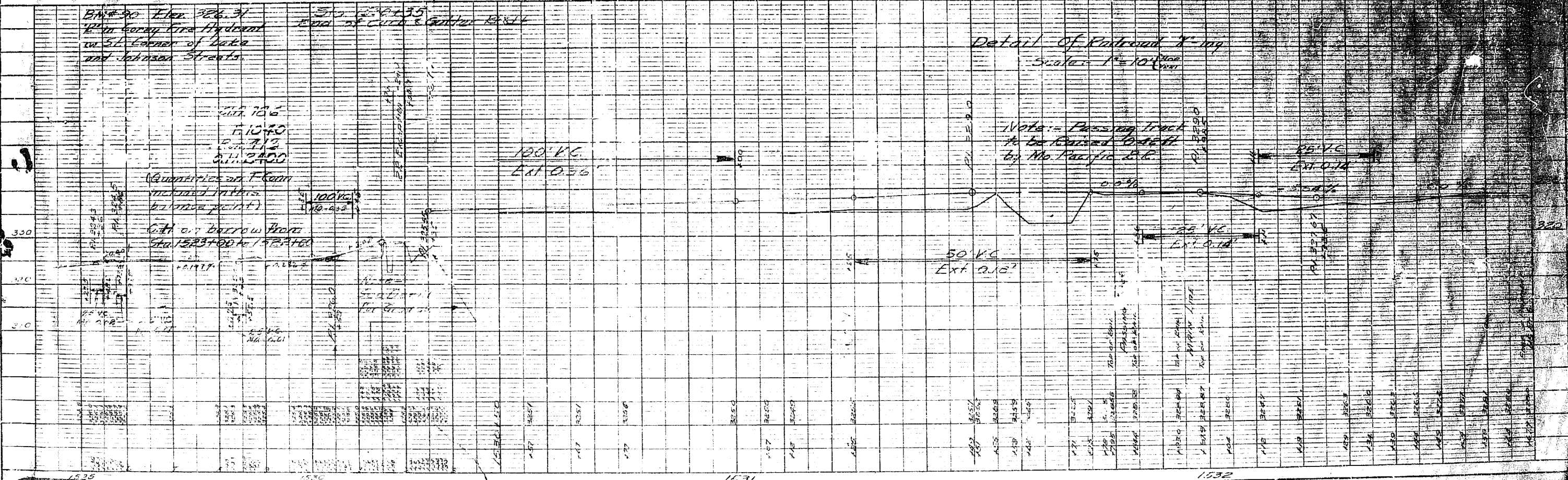
END U.S. R.R. 61 F.H. Proj 10F
 U.S. R.R. 25 CONSTRUCTION

Box 30 Elev. 326.31
 12" in Corrug. Fire Hydrant
 in S.E. corner of Lake
 and Johnson Streets.

Sta. 1532+35
 End of Curb & Gutter R.R. 61

Detail of Railroad X-ing
 Station 1531+10

Note: - Passing track
 to be raised 6" by
 Mo. Pacific R.R.



DESIGN DESIGNATION

ADT 1973 = 18,820
ADT 1993 = 28,680
D = %
T = %
V = 40M.P.H.

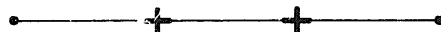
MISSOURI STATE HIGHWAY COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

COUNTY SCOTT
ROUTE 62
PROJECT _____

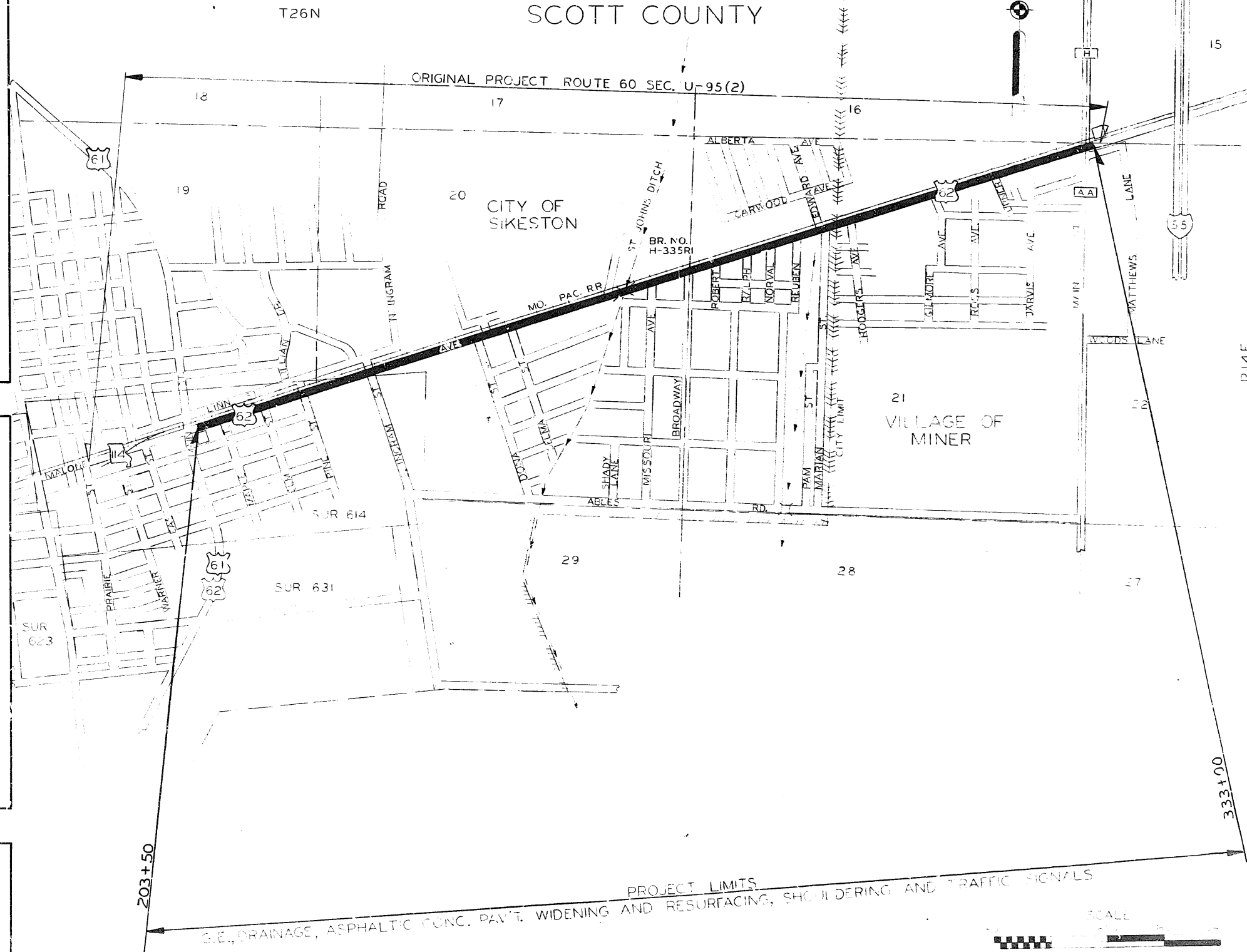
JOB NO. 10-U-62-19

PARTIAL LIMITED ACCESS HIGHWAY

THIS SHALL BE A PARTIAL LIMITED ACCESS HIGHWAY, EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS, NO ABUTTER'S RIGHT 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 WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE.



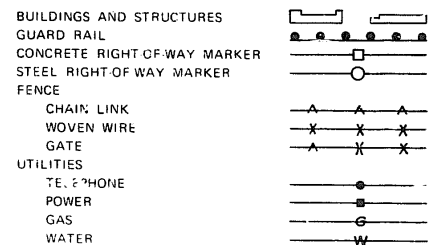
FEDERAL AID PROJECT
SCOTT COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL SECTIONS (/ SHEET)	2
SUMMARY (SHEET)	2-A
SUMMARY (/ SHEET)	2-B
PLAN-PROFILE	3
REFERENCE POINTS	4
SPECIAL SHEETS	5-9
LIGHTING	
SIGNALS	
SIGNING	
CULVERT SECTIONS	
BRIDGE DRAWINGS	
STANDARD PLANS INDEX	
CROSS SECTIONS	1-E
COMPUTER DATA	

CONVENTIONAL SIGNS
(USED IN PLANS)



NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

TITLE SHEET LEGEND

PROJECT INFORMATION SIGNS (2 REQUIRED)

LENGTH OF PROJECT

END OF PROJECT	STA. 333+00.0
BEGINNING OF PROJECT	STA. 203+50.0
APPARENT LENGTH	12,950 FEET
EQUATIONS AND EXCEPTIONS	
TOTAL CORRECTIONS	NONE FEET
NET LENGTH OF PROJECT	12,950 FEET
STATE LENGTH	2.453 MILES
FEDERAL LENGTH	2.453 MILES

MISSOURI STATE HIGHWAY COMMISSION

SUBMITTED _____
CHIEF ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____
DIVISION ENGINEER DATE

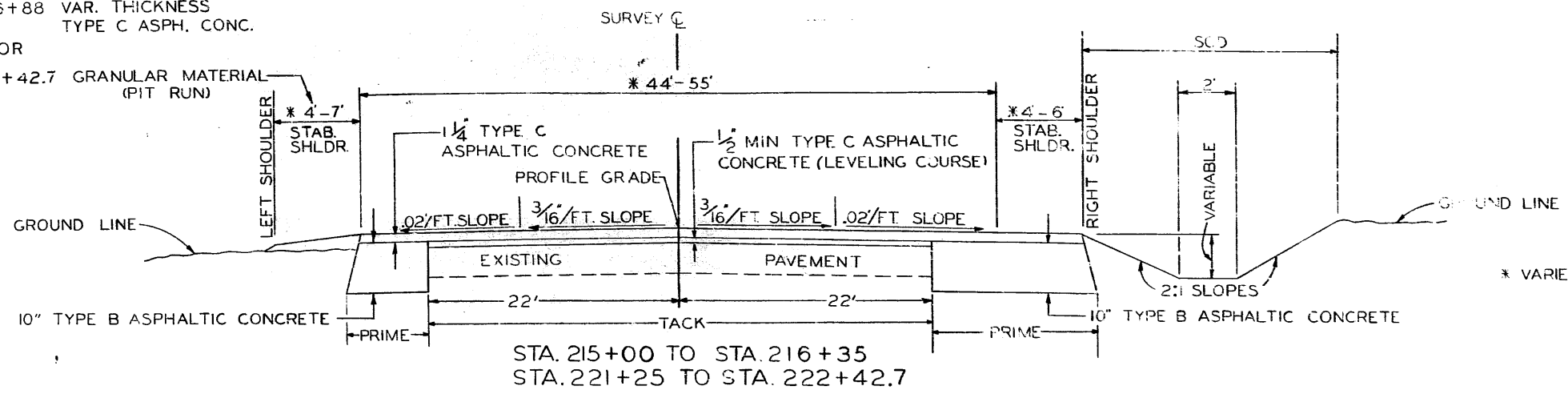
PROJECT LIMITS
G.E., DRAINAGE, ASPHALTIC CONC. PAV'T. WIDENING AND RESURFACING, SHOULDERING AND TRAFFIC SIGNALS



FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.		2
DIST. NO.	COUNTY	TOWNSHIP	SEC.
10	SCOTT	62	

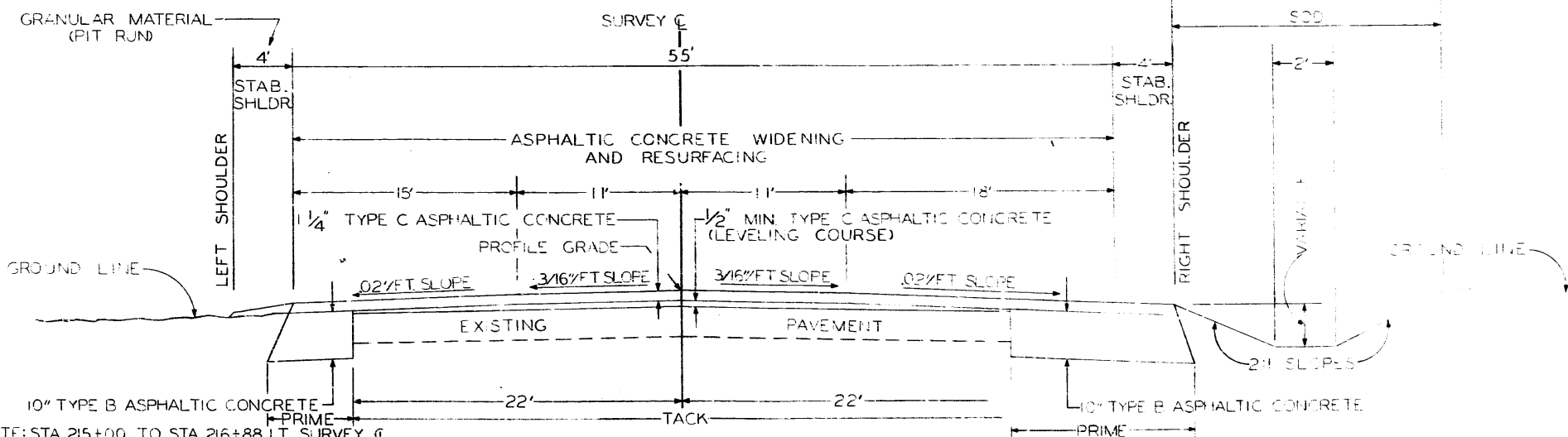
JOB NO. 10-U-62-19

STA. 215+00 TO STA. 216+88 VAR. THICKNESS
TYPE C ASPH. CONC.
OR
STA. 216+88 TO STA. 222+42.7 GRANULAR MATERIAL
(PIT RUN)



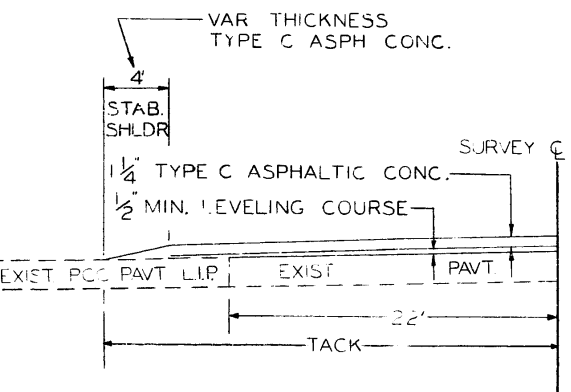
* VARIES (SEE OTHER DWGS.)

STA. 215+00 TO STA. 216+35
STA. 221+25 TO STA. 222+42.7



NOTE: STA 215+00 TO STA 216+88 LT. SURVEY C
OMIT 10" TYPE B ASPHALTIC CONCRETE
BASE COURSE AND GRANULAR MATERIAL
FOR SHOULDERS. USE EXISTING PCC PAVT.
IN PLACE AND RESURFACE. STABILIZE
SHOULDERS 4 FT. IN WIDTH WITH VARIABLE
THICKNESS TYPE C ASPHALTIC CONCRETE.

STA. 216+35 TO STA. 221+25



STABILIZED SHOULDER TREATMENT
LT. OF SURVEY C
STA 215+00 TO STA. 216+88

TYPICAL SECTIONS
PAGE 62
WIDENING & RESURFACING
STA. 215+00 TO STA. 222+42.7

FINAL PLANS

SCOTT JOB NO 10-U-62-19

Fed. Improv. Begins at a point:
A prox. 636' South & 153' East of
NE. Cor. Lot #5 Blk #2 Williams
Addition of F-1 SE 1/4 Sec. 19, T26N, R14E.

Fed. Improv. Ends at a point Approx. 80'
East & 15' South of the Common Cor. of
Sections 15, 16, 21 & 22, T26N, R14E.

NOTE: Required adjustment of
Utilities to be made by
owners.

Water & Electric utilities owned by
Board of Municipal Utilities, Sikeston, Mo
unless otherwise indicated

Gas lines owned by
Associated Natural Gas Co
Sikeston, Mo

Telephone utilities owned by
Southwestern Bell Tel. Co
Sikeston, Mo.

① CHARLES D. MATTHEWS IV et al
L.A. R/W - 0.06 Ac.
NON-LIMITED ACCESS R/W - 0.04 Ac.
TEMP. ESMT (CONST.) - 0.07 Ac.

② CHARLES D. MATTHEWS IV et al
L.A. R/W - 0.06 Ac.
NON-LIMITED ACCESS R/W - 0.04 Ac.
TEMP. ESMT (CONST.) - 0.05 Ac.

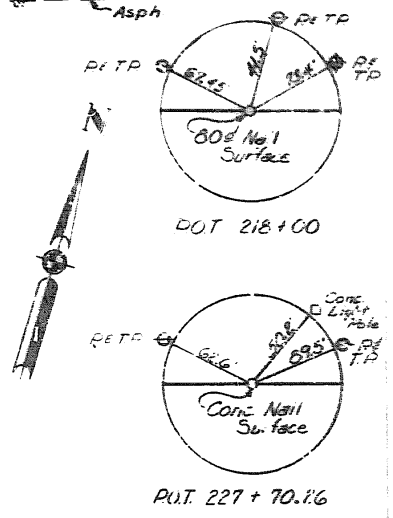
BLOCK 4, CHAMBER OF COMMERCE ADDITION

INTERSECTION BASIC LIGHTING

Sta. 217+52	Rte. 62 - 31' Lt.
Sta. 0+38	Lillian Dr. - 25' Lt.
Sta. 0+71	Pine St. - 25' Rt.
Sta. 220+12	Rte. 62 - 34' Rt.

For intersection & Curb details,
see Special Sheet No. 1.

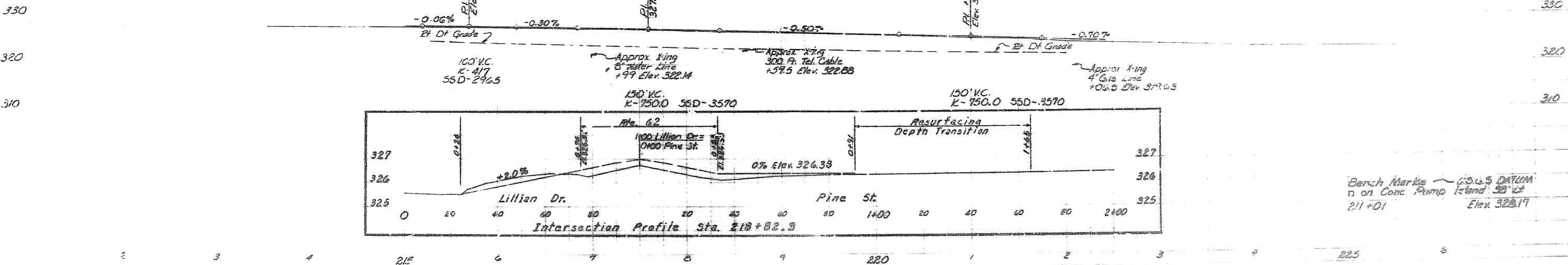
STA. 218+82.9 is 6555.0 FT.
553°24'09" W of the Common
Cor. of Secs. 16, 17, 20, & 21
T26N, R14E (Limestone Monument)



RESURFACING
From Sta. 203+50

C.I.A. Exc. - 669 CY
F. 11 ~ 215 CY

RESURFACING
To Sta. 333+00

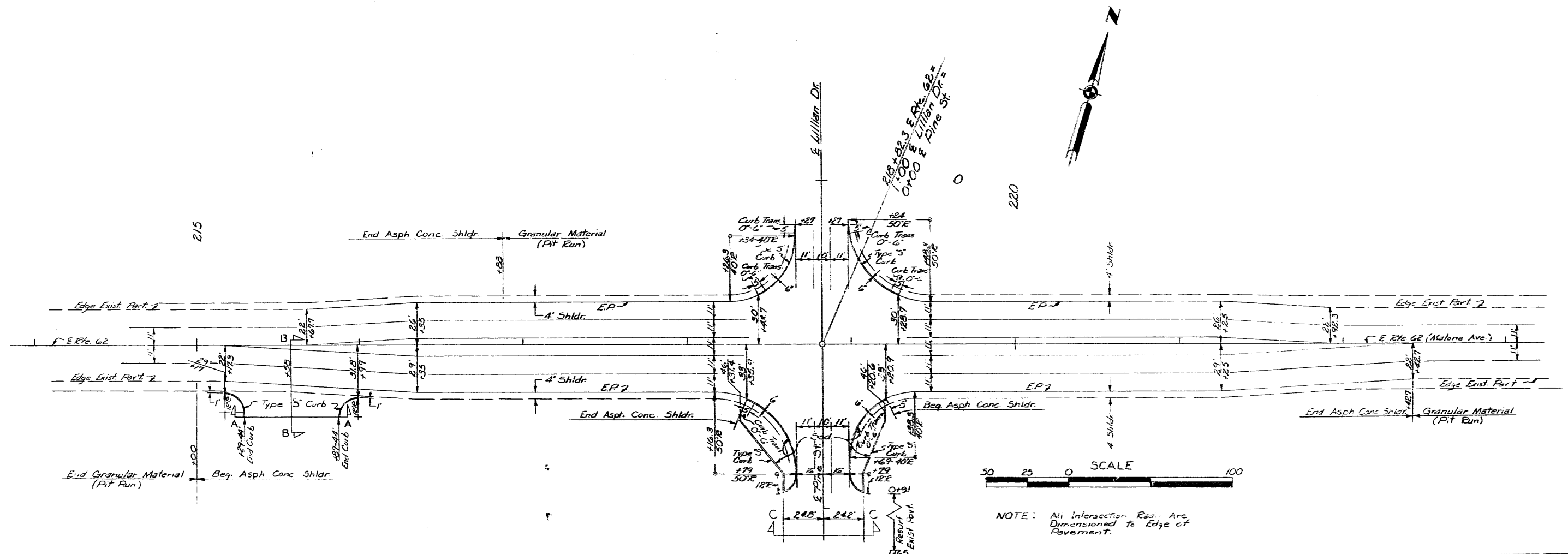


Bench Marks - U.S. DATUM
on Conc. Pump Island 50' W
211+01 Elev. 328.17

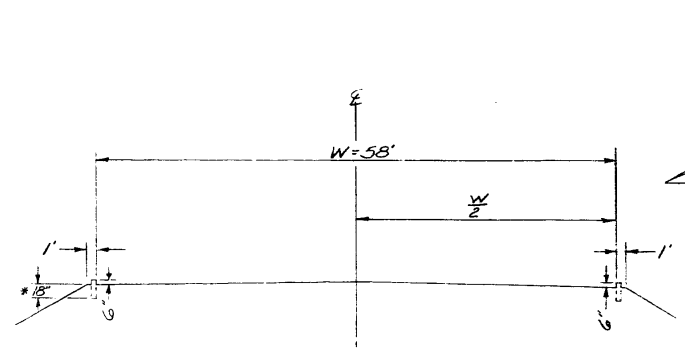
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.		4
NO. 10	SCOTT	62	

JOB NO. 10-U-62-19

FINAL PLANS

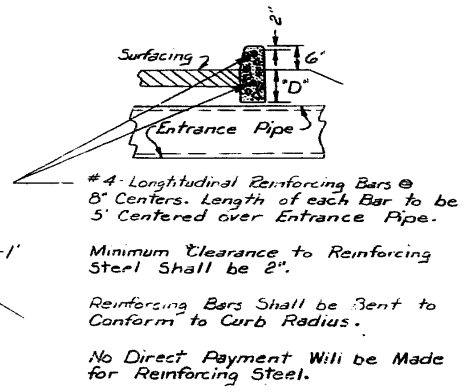


NOTE: All Intersection Rad. Are Dimensioned to Edge of Pavement.

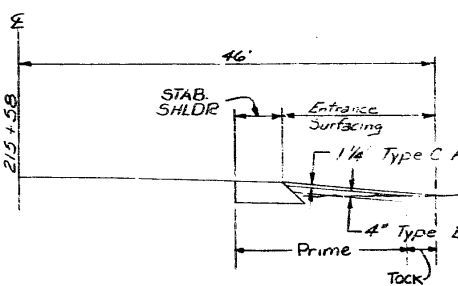


* Dimension May be Reduced Over Entrance Pipe as Required for Clearance. See other Dwg for Reinforcing

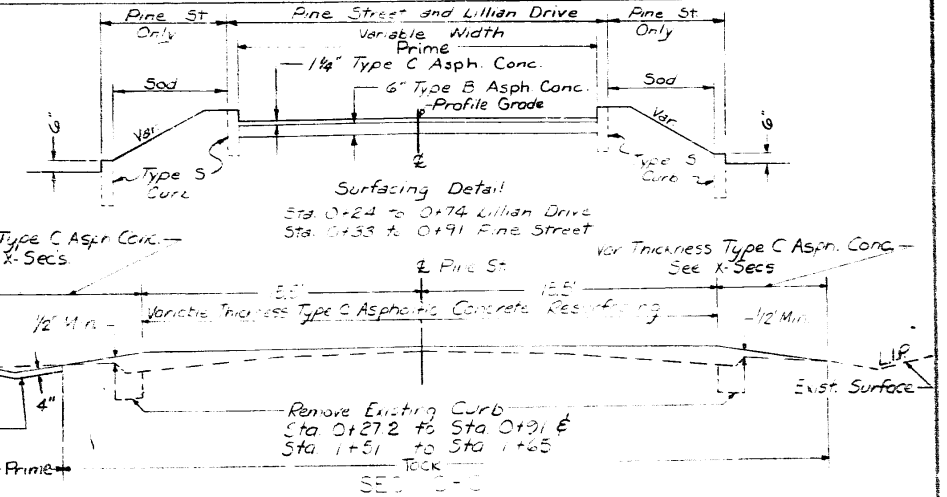
SEC A-A
(C.E. STA. 215+53)



* 4 Longitudinal Reinforcing Bars @ 8" Centers. Length of each Bar to be 5' Centered over Entrance Pipe.
Minimum Clearance to Reinforcing Steel shall be 2".
Reinforcing Bars shall be Bent to Conform to Curb Radius.
No Direct Payment Will be Made for Reinforcing Steel.
TYPE "S" CURB OVER ENTRANCE PIPE
(Reinforcing Required Only Where "D" is Less Than 18")



SEC B-B
Surfacing Detail
C.E. Sta. 215+58



INTERSECTION & CURB DETAILS
SPECIAL SHEET NO.

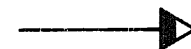
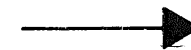
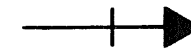
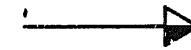

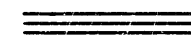










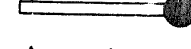
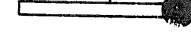
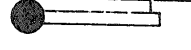
Drawings not to Scale


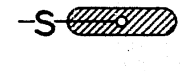


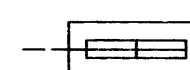
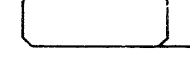


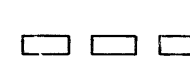
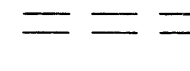
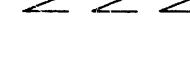
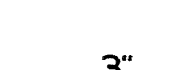
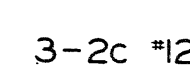


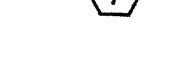

TRAFFIC SIGNAL SYMBOLS














FED. RD. DIV. NO.	STATE	FED. PROJ. NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO			5
DIST. NO.	COUNTY	RTE.	SEC.	
10	SCOTT	62		

MO. N. T. 1-52-19

FINAL PLANS

-  OPTICALLY LIMITING SIGNAL HEAD
-  SIGNAL HEAD
-  SIGNAL HEAD WITH BACKPLATE
-  SIGNAL HEAD - PEDESTRIAN
-  POST MOUNTED SIGNAL HEAD WITH SIGN
-  STOP LINE
-  LANE USE
-  TYPE A BASE
-  TYPE B BASE
-  TYPE C BASE
-  JUNCTION BOX
-  CONTROLLER
-  CONCRETE PULL BOX
-  CONCRETE PULL BOX (DOUBLE)
-  BITUMINOUS FIBER PULL BOX
-  SPAN WIRE WITH SIGNAL HEAD
-  MAST ARM WITH SIGNAL HEAD
-  MAST ARM WITH SIGNAL HEADS
-  MAST ARM WITH OVERHEAD SIGN

-  MAST ARM WITH ULTRA-SONIC DETECTOR (NARROW)
-  MAST ARM WITH ULTRA-SONIC DETECTOR (EXTENDED)
-  SIDE FIRE ULTRA-SONIC DETECTOR
-  NON-COMP. MAG. DETECTOR
-  PRES.-SENS. DET. NON-DIRECTIONAL
-  PRES.-SENS. DET. DIRECTIONAL
-  INDUCTION LOOP DETECTOR
-  PUSH BUTTON DETECTOR
-  SERVICE POLE AND POWER SUPPLY
-  RIGID STEEL CONDUIT IN TRENCH
-  RIGID STEEL CONDUIT PUSHED
-  ALUMINUM CONDUIT IN TRENCH
-  ALUMINUM CONDUIT PUSHED
-  RIGID STEEL CONDUIT IN MEDIAN
-  3" SIZE OF CONDUIT
-  3-2c #12 NUMBER & SIZE OF CABLE
-  7 SIGNAL FACE NUMBER
- 7 POST NUMBER
- 7 DETECTOR NUMBER

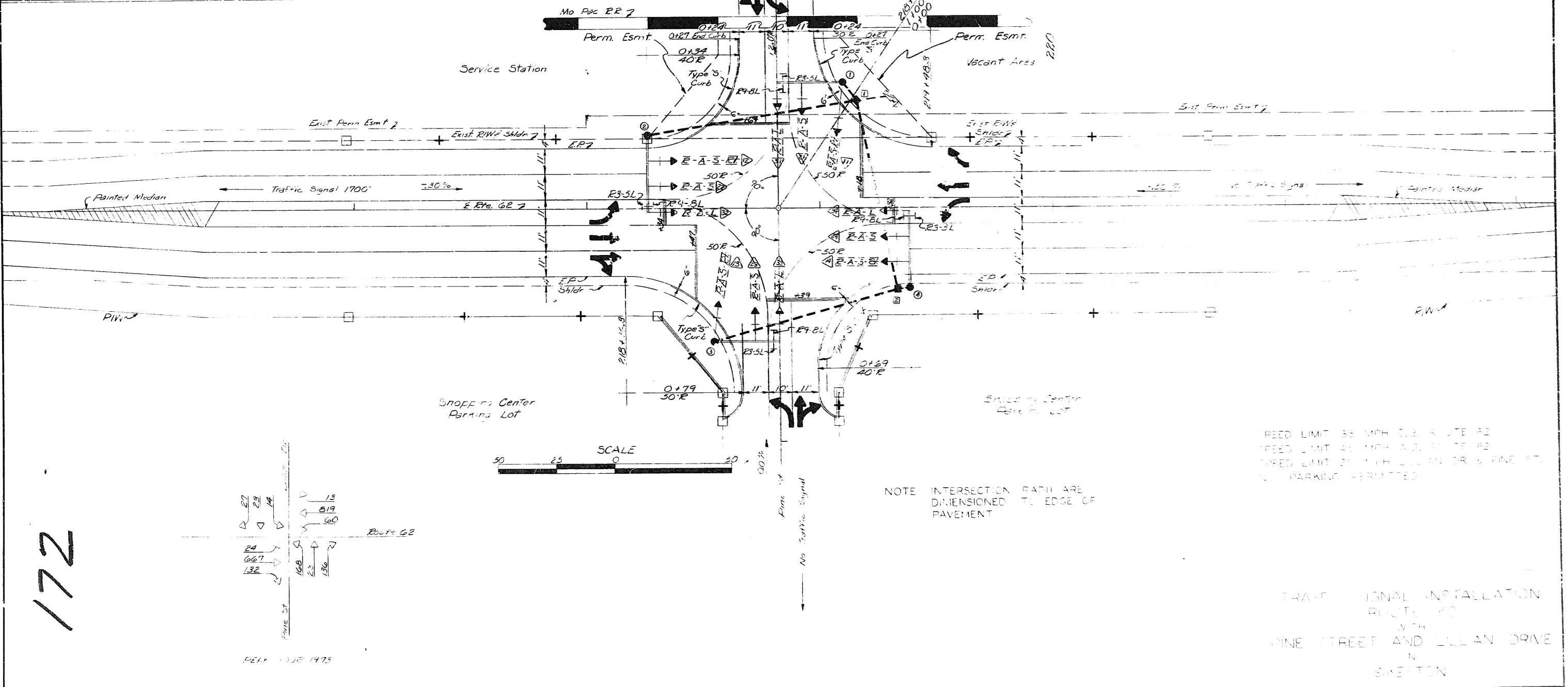
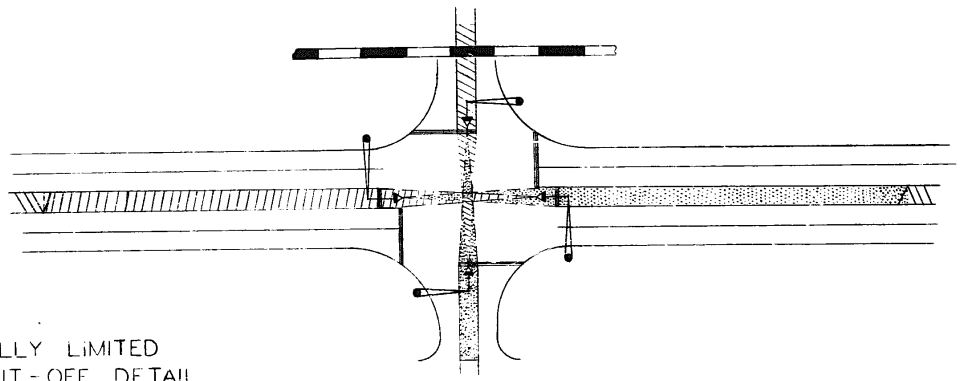
-  7 PULL BOX NUMBER
-  R RED LENS
-  A AMBER LENS
-  G GREEN LENS
-  S GREEN STRAIGHT ARROW LENS
-  L GREEN LEFT ARROW LENS
-  R+ GREEN RIGHT ARROW LENS
-  DL DOWN LIGHT
-  R 12 INCH LENS
-  |G| TUNNEL VISOR
-  }A{ TUNNEL VISOR WITH EXTERNAL LOUVERS
-  W WALK INDICATION
-  DW DON'T WALK INDICATION

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
10	MO.	SCOTT 62	7

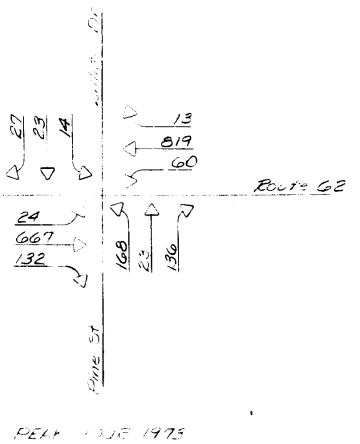
JOB NO. 10-U-62-19

FINAL PLANS

OPTICALLY LIMITED SIGNAL CUT-OFF DETAIL



172



SPEED LIMIT 35 MPH S.B. ROUTE 62
 SPEED LIMIT 45 MPH W.B. ROUTE 62
 SPEED LIMIT 30 MPH LILLIAN DR. & PINE ST.
 NO PARKING PERMITTED

TRAFFIC SIGNAL INSTALLATION
 ROUTE 62
 WITH
 PINE STREET AND LILLIAN DRIVE
 IN
 SIMPSON

FINAL PLANS

FED. RD. DIST. NO.	STATE	FED. PROJ. NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO			78
DIST. NO.	COUNTY	RTE. SEC.	SHEET 2 OF 2	
10	SCOTT	62		

TRAFFIC SIGNALS

INTERSECTION
PINE-LILLIAN

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

BASES AND PULL BOXES

LOCATION			BASES			DETECTORS			PULL BOXES			REMARKS
Appr.	Station	Offset	A	B	C	Base Size	Pav't Rem. SY	Det. Base C.Y.	Concrete I II III IV	Fiber I II III	Weight	
Lillian	0+46	28' Lt						2.62				
Rte. 62	218+26	32.5' Lt						2.32				
Pine	0+57	28' Rt						2.62				
Rte. 62	219+38	35.5' Rt						2.62				
Lillian	0+52	34' Lt										
Rte. 62	219+33	35' Rt										
Rte. 62	219+30	48' Lt	Controller Base					2.00				
Totals								12.45				2

CONTROLLER AND EQUIPMENT

LOCATION			OFF SET	Cont. Type	Controller Assembly Housing	PHASE MODULE					On-Off Switch and Cabinet Type	Interconnect Master	Interconnect Local	Encoder Unit	Pre-emption Unit	REMARKS
APPR.	STA.	CONCRETE				S	D	P	S	D							P
Rte. 62	219+30	48' Lt														Interconnect With Controller at Intersection of Rte. 62 at Pine
Totals																MI

POWER SUPPLY

LOCATION			902.00 Power Supply Asmb.	Service Pole	CIRCUIT BREAKER TRIP RATINGS		CIR. BKR. FRAME SIZE	
APPR.	STA.	OFF SET			AT CONTROLLER	AT SERVICE PL.		
Rte. 62	219+33	44.5' Lt	1	40 ft	Cont. Acces. and Down Lights	15 AMP	40 AMP	50 AMP
Totals			1	1	Signal Lights	30 AMP	40 AMP	50 AMP

CONDUIT

From	To	C to C Dist.	TRENCH				MEDIAN		PUSHED				REMARKS			
			1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	1 1/4	2	2 1/2		3	3 1/2	4
Ø	⊗	5'			16'											2 Lines
⊗	⊗	14'				15'										
⊗	⊗	10'			12'											
⊗	⊗	91'			93'											
⊗	⊗	83'				37'						45'				
⊗	⊗	82'			84'											
⊗	⊗	5'			7'											
Totals					212							37				45

CABLE

From	To	C to C Dist.	POWER		CONTROL				LOOP DET.	ULTRA SONIC	REMARKS
			1c-8	2c-12	3c-12	7c-12	1c-14	2c-18			
Ø	Cont. P1	5'	120'		40'						3-1C & 1-2C
Cont. P1	P2	24'				163'					2-7C
Cont. P2	P3	105'				337'					2-7C
Cont. P3	P4	179'				485'					2-7C
Cont. P4		102'				343'					2-7C
Sub-Totals			120		40	1338					
Extra for cutting, etc.			10		10	60					
Totals			130		50	1398					

DETECTORS

DET. No.	PHASE ASSOC.	PRES-SENS		ULTRASONIC	INDUCTION - LOOP				CALL UNIT	SW. UNIT	TIME DELAY
		Non-Direct	Direct		Type	Loc'n.	SEN. UNIT	LOOP SIZE A x B				CALL UNIT	SW. UNIT
		6'	8'								
TOTALS											

COMMISSION FURNISHED SIGNS

LOCN	SIZE and TYPE		
	R3-	R8-	R9-
Post	36 x 42	24 x 30	12 x 18
Face	5L 5R 6L 6R	5 6 2 3	6 7 8L 8R
1	3	1	1
2	3	1	1
3	3	1	1
4	3	1	1
Total	14		4

- R3-5L LEFT ARROW (SYMBOL)
- R3-5R RIGHT ARROW (SYMBOL) - ONLY
- R3-5S STRAIGHT ARROW (SYMBOL) - ONLY
- R3-6L LEFT ARROW - STRAIGHT (SYMBOL)
- R3-6R RIGHT ARROW - STRAIGHT (SYMBOL)
- R8-5 LEFT TURN YIELD
- R8-6 LEFT TURN YIELD ON GREEN
- R9-2 CROSS ON GREEN LIGHT ONLY
- R9-3 CROSS ON WALK SIGNAL ONLY
- R9-6 PUSH BUTTON FOR GREEN LIGHT
- R9-7 PUSH BUTTON FOR WALK SIGNAL
- R9-8L LEFT TURN SIGNAL
- R9-8R RIGHT TURN SIGNAL

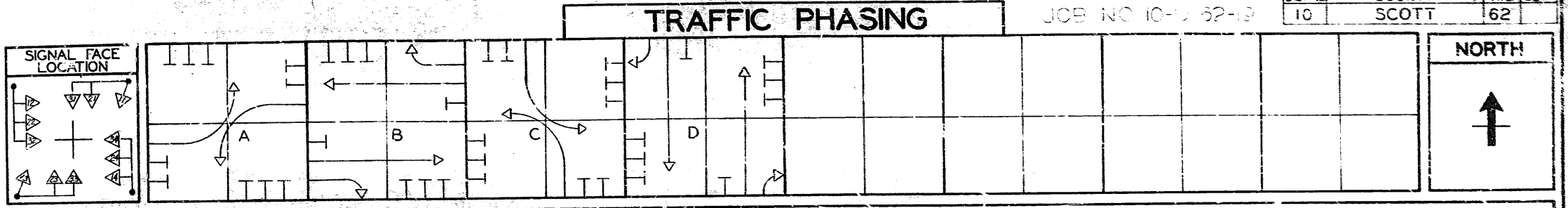
MS

FED. RD. DIV. NO.	STATE	FED. PROJ. NO.	SEC.	LOCAL PROJ. NO.
5	MO			8
DIST. NO.	COUNTY	RTE.	SEC.	
10	SCOTT	62		

JOB NO 10-1-62-19

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- ▷ NON-ACTUATED VEHICULAR MOVEMENT
- ▷ PARTIALLY RESTRICTED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- ▷ NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊗ DETECTOR DISCONNECTED
- ⊙ DETECTOR SWITCHED (FUNCTION NO. 1)
- R/W RIGHT-OF-WAY INTERVAL
- ∅ TRAFFIC PHASE
- R-RED
- A-AMBER
- G-CIRCULAR GREEN
- S-GREEN STRAIGHT AHEAD ARROW
- L-GREEN LEFT ARROW
- RT-GREEN RIGHT ARROW



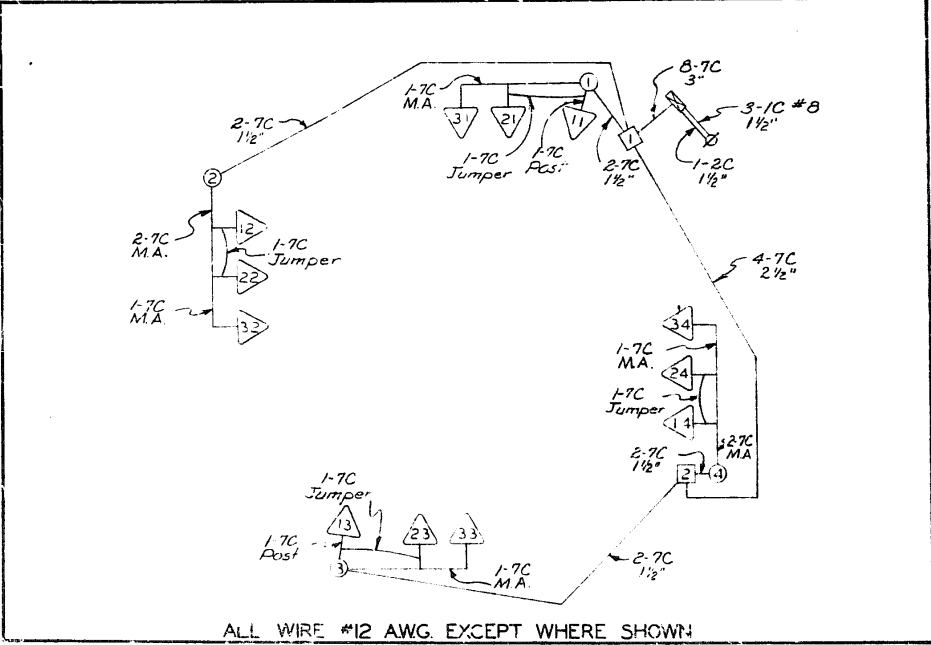
COLOR SEQUENCE

CGNT. NO.	FACE	∅ A			∅ B			∅ C			∅ D			∅			∅			FACE	CONT. NO.
APPROACH	NO.	R/W	B	CLR TO	R/W	C	CLR TO	R/W	D	CLR TO	R/W	A	CLR TO	R/W	CLR TO	R/W	CLR TO	R/W	CLR TO	NO.	APPROACH
EAST BOUND RTE. 62	14	R	R		SRT	A		R	R		R	R									BOUND
	24	R	R		S	A		R	R		R	R									
	34	L	A		P	R		R	R		R	R									
WEST BOUND RTE. 62	12	R	R		SRT	A		R	R		R	R									BOUND
	22	R	R		S	A		R	R		R	R									
	32	L	A		R	R		R	R		R	R									
SOUTH BOUND LILLIAN DR.	13	R	R		R	R		R	R		SRT	A									BOUND
	23	R	R		R	R		R	R		S	A									
	33	R	R		R	R		L	A		R	R									
NORTH BOUND PINE ST.	11	R	R		R	R		R	R		SRT	A									BOUND
	21	R	R		R	R		R	R		S	A									
	31	R	R		R	R		L	A		R	R									
BOUND																					

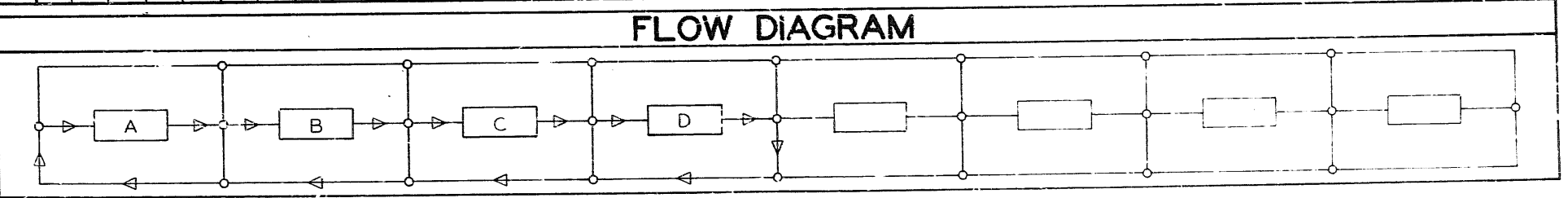
SUGGESTED TIMING

∅ TO BE DETERMINED BY DISTRICT TRAFFIC ENGINEER AT DATE OF TURN ON

WIRING DIAGRAM



FLOW DIAGRAM



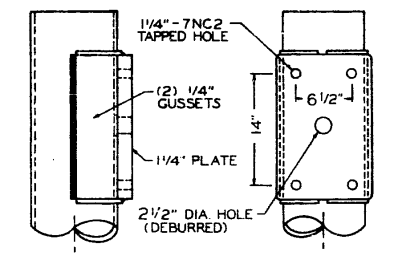
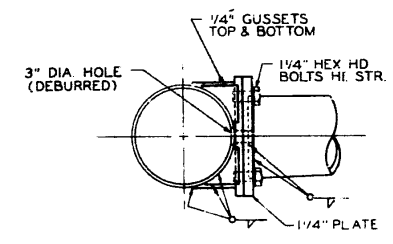
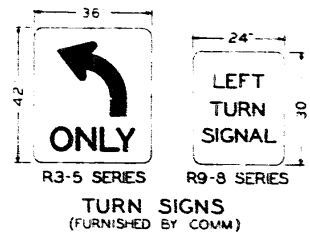
CONTROLLER TYPE M.L.

FLASHING OPERATIONS

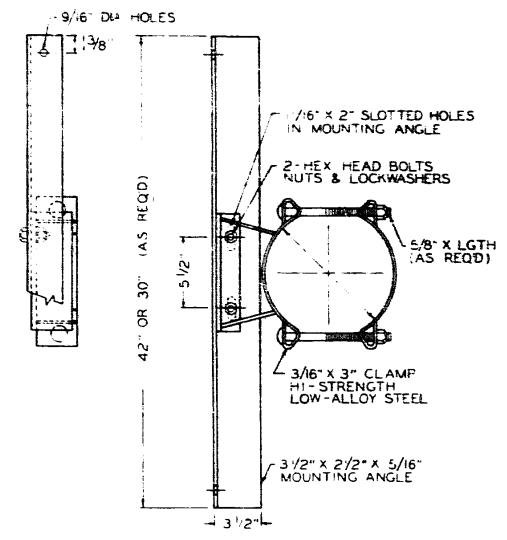
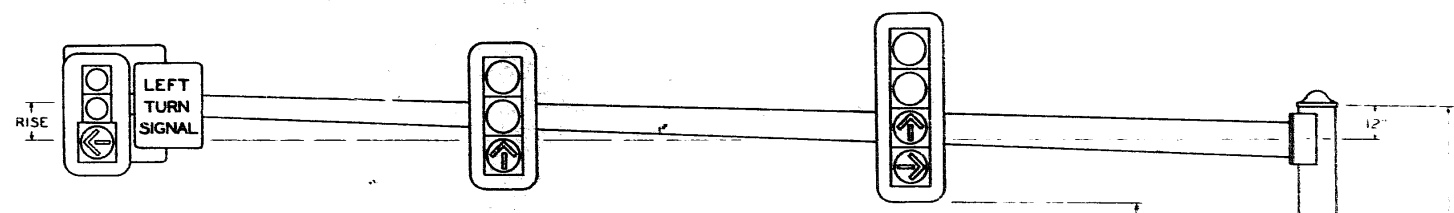
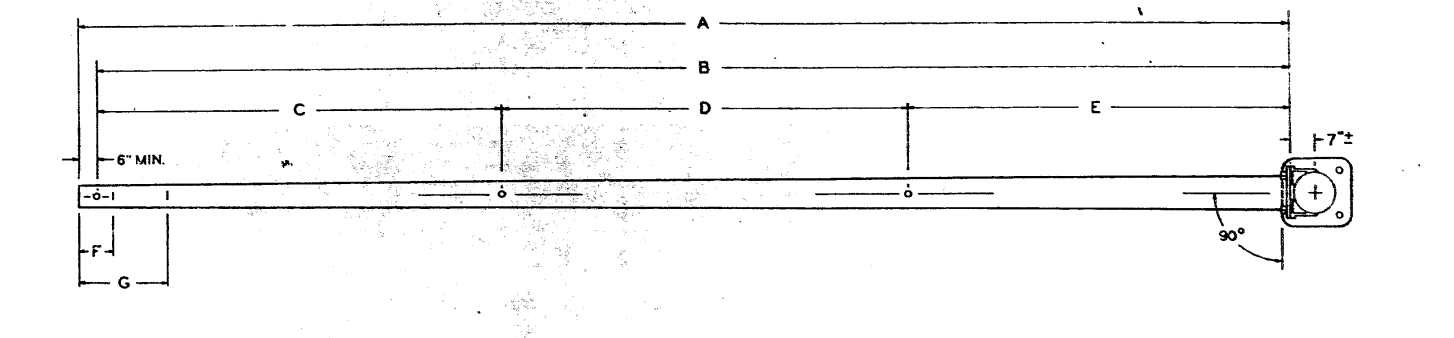
ROUTE 62	APPROACH	FA
PINE ST. & LILLIAN DR.	APPROACH	FR
	APPROACH	F

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE 62 WITH PINE ST. & LILLIAN DR.

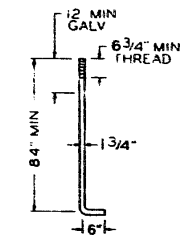
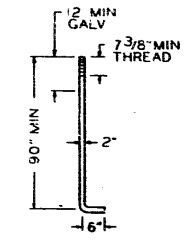


ARM ATTACHMENT

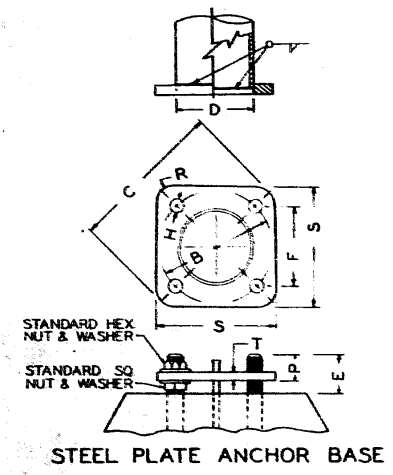


SIGN BRACKET ASSEMBLY

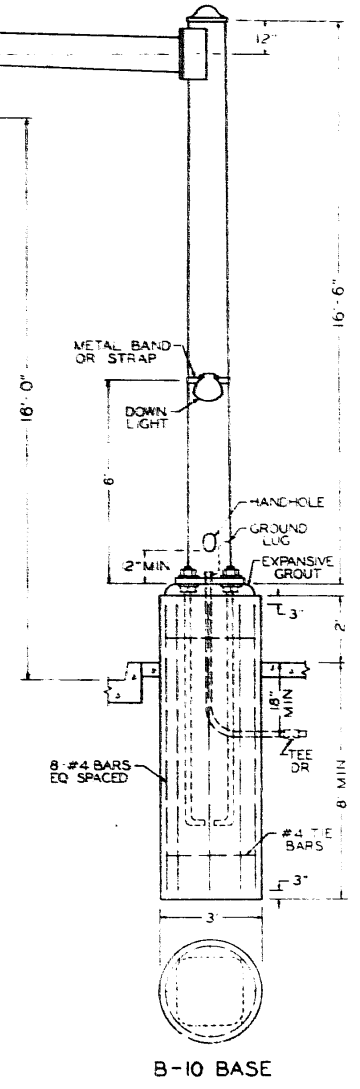
POST	POS										PLATE		ANCHOR BOLTS
GA.	D	B	C	H	F	P	R	S	T	E	DIA.	LGTH	
7	12	16	21	2 1/8	11 5/16	4 1/2	3 3/4	17	2	6 3/4	1 3/4	90	
7	13	18	23	2 1/8	12 3/4	4 1/2	4	18 1/2	2	6 3/4	1 3/4	90	
7	14	20	25 1/4	2 1/8	14 1/8	4 1/2	4 1/2	20 1/2	2	6 3/4	1 3/4	90	
7	15	22	28 5/8	2 3/8	15 1/2	4 1/16	4 5/8	23	2	7 3/8	2	96	



ANCHOR BOLTS



STEEL PLATE ANCHOR BASE



B-10 BASE

ARM LGTH.	RISE		ARM SIZE				POST SIZE					
	MIN.	MAX.	GA.	D	B	C	GA.	D	B	C		
26'	9"	17"	7 GA.	9.0"	X	5.36"	7 GA.	12"	X	9.69"	X	16'-6"
28'	9"	18"	7 GA.	9.0"	X	5.08"	7 GA.	12"	X	9.69"	X	16'-6"
30'	10"	19"	7 GA.	10.0"	X	5.80"	7 GA.	13"	X	10.69"	X	16'-6"
32'	10"	21"	7 GA.	10.0"	X	5.52"	7 GA.	13"	X	10.69"	X	16'-6"
34'	11"	22"	7 GA.	11.0"	X	6.24"	7 GA.	14"	X	11.69"	X	16'-6"
36'	11"	23"	7 GA.	12.0"	X	6.96"	7 GA.	15"	X	12.69"	X	16'-6"

POST NO.	INTERSECTION OF	DOWN LIGHT	POST DATA						
			ARM LGTH.		SIGNAL SPACING			SIGN SPACING	
			A	B	C	D	E	F	G
1	Pine-Lillian		28'	27'6"	10'6"	-	17'0"	2'	3'
2	Pine-Lillian		34'	33'6"	11'0"	11'0"	11'6"	2'	3'
3	Pine-Lillian		28'	27'6"	10'6"	-	17'0"	2'	3'
4	Pine-Lillian		34'	33'6"	11'0"	11'0"	11'6"	2'	3'

- NOTES
- SIGNS AND SIGNALS SHALL BE VERTICAL TO THE HORIZONTAL.
 - POST IS GROUNDED FROM GROUND LUG IN POST WITH NO. 6 AWG BARE COPPER WIRE TO CONDUIT WITH CLAMP. GROUND LUG TO BE 90° OR 180° TO HANDHOLE.
 - HANDHOLE TO BE APPROXIMATELY 4" X 6.5" WITH REINFORCED FRAME AND COVER.
 - BASE QUANTITY IS 2.62 CY CONC AND 59 LBS REINFORCING STEEL.
 - POST SHALL HAVE REMOVABLE TOP AND ARMS TO BE EQUIPPED WITH END PLATES.

MISSOURI STATE HIGHWAY COMMISSION
TRAFFIC SIGNALS
 TUBULAR STEEL POSTS
 ONE-TUBE CANTILEVER TYPE C-4

FINAL PLANS

SP-2
JUNE 1972

MISSOURI STATE HIGHWAY COMMISSION
STANDARD PLANS

FED. ROAD DIVISION		PROJECT	SHEET NO.
5	M.O.	10-U-62-19	10
DIST. NO.		COUNTY	ROUTE
10		SCOTT	62

✓ NO.	DESCRIPTION
✓ 203.00A	EXCAVATION & EMBANKMENT
✓ 203.02	UNDERGRADING
203.10	TABULATED EARTHWORK & SECTION DATA
203.20	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
203.21	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
203.30	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
203.31	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
203.32	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
203.40A	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (NO SAFETY ZONE)
203.41A	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (SAFETY ZONE)
203.50C	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
204.00	EMBANKMENT CONTROL MEASURING DEVICES
502.00C	CONCRETE PAVEMENT APPURTENANCES
502.10A	DOWEL SUPPORTING UNITS
502.20	CONCRETE APPROACH SLABS TO RAILROAD CROSSINGS
503.00D	CONCRETE APPROACH SLABS TO BRIDGES
✓ 602.00	RIGHT-OF-WAY & DRAIN MARKERS
604.05	PIPE CULVERT HEADWALLS - TYPE S
604.10	HEADWALL WITH ENERGY DISSIPATOR - 18"
604.11	HEADWALL WITH ENERGY DISSIPATOR - 24"
604.12	HEADWALL WITH ENERGY DISSIPATOR - 30"
604.13	HEADWALL WITH ENERGY DISSIPATOR - 36"
604.14	HEADWALL WITH ENERGY DISSIPATOR - 42"
604.15	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)
604.40B	PIPE COLLARS
605.10A	CLASS A UNDERDRAINS
606.00B	GUARD RAIL (2 SHEETS)
606.20A	BRIDGE ANCHOR SECTION (ALSO INCLUDE 606.00)
606.21A	BRIDGE ANCHOR SECTION - CURB TYPE (ALSO INCLUDE 606.00)
606.30	TERMINAL SECTION (ALSO INCLUDE 606.00)
606.40	GUARD CABLE
606.50	GUARD FENCE
607.10A	CHAIN LINK FENCE
607.11A	CHAIN LINK FENCE FOR RETAINING WALLS
607.20B	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓ NO.	DESCRIPTION
608.00	PAVED APPROACHES
608.10	CONCRETE SIDEWALK & STEPS
✓ 609.00C	CONCRETE CURB - CURB & GUTTER - GUTTER
609.15	PAVED DITCHES
609.40B	DRAIN BASIN, SHLDR. PAVING & FILL SLOPE AT BR. ENDS
609.60	DITCH LINER
610.20A	BRICK MANHOLES (ALSO INCLUDE 614.30)
611.60	CONCRETE SLOPE PROTECTION
✓ 612.10B	BARRICADES AND FLASHER SIGNS
✓ 612.20F	STANDARD CONSTRUCTION SIGNS (5 SHEETS) (ALSO INCLUDE 903.00)
✓ 612.25B	PROJECT INFORMATION SIGNS
612.26B	PROJECT INFORMATION SIGNS (FEDERAL FOREST HIGHWAYS)
614.10B	CURB INLETS, GRATES & BEARING PLATES
614.30	MANHOLE FRAMES & COVERS
615.00	OFFICE FOR ENGINEER
617.00F	CONCRETE MEDIAN BARRIER - TYPE A (2 SHEETS)
702.01A	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
702.02	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
703.15B	CONCRETE BOX CULVERTS, HTS LOADING (3 SHEETS)
703.20B	CONCRETE BOX CULVERTS, HS20 LOADING (3 SHEETS)
703.24A	CONCRETE BOX CULVERTS, SKEW DATA (703.15, 703.20, 703.30)
703.30A	CONCRETE BOX CULVERTS, 4' SPANS & LESS - ALL LOADING
703.35	CONCRETE BOX CULVERTS, EXTENSION DETAILS
703.50B	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 HS20 LOADING (5 SHEETS)
703.60A	CONCRETE BOX STRUCTURE - PIPE INLET
706.30A	REINFORCING BAR SUPPORTS
712.40	STEEL DAMS FOR BRIDGES (6" CHANNEL)
712.41	STEEL DAMS FOR BRIDGES (4" CHANNEL)
712.42	FILLET WELDED TEE JOINT TEST
717.11	TIMBER BRIDGES - 11' ROADWAY
717.15	TIMBER BRIDGES - 15' ROADWAY
717.19	TIMBER BRIDGES - 19' ROADWAY
725.31	METAL CURTAIN WALL AND METAL INLETS
✓ 726.30	CULVERT INSTALLATION METHODS
731.00C	PRECAST MANHOLES (ALSO INCLUDE 614.30)
✓ 732.00D	FLARED END SECTION (2 SHEETS)
733.00C	PRECAST DROP INLETS (4 SHEETS) (ALSO INCLUDE 614.30)
806.00A	EROSION CONTROL NETTING (INSTALLATION)
807.00	GLASS FIBER MAT (INSTALLATION)

✓ NO.	DESCRIPTION
HIGHWAY LIGHTING	
901.00C	POLES & APPURTENANCES - 30' (2 SHEETS)
901.01E	POLES & APPURTENANCES - 45' (2 SHEETS)
901.02	POLE MOUNTED SUBSTATION 2400 V - 480 V MULTIPLE CIRCUIT
901.03	POLE MOUNTED SUBSTATION 7200 V - 480 V MULTIPLE CIRCUIT
901.10	POLE MOUNTED SUBSTATION 480 V MULTIPLE CIRCUIT
901.11	POLE MOUNTED SUBSTATION - FOR DELTA & UNG/Y PRIM. SERV. 480 V MULT. CIR.
901.12	POLE MOUNT. CONT. STA. SEC. SECONDARY SERV. 480 V MULTI. CIR. (NOT METERED)
901.13	PAD MOUNT. SUBSTATION 10 TO 50 KVA 4800 V MAX. PRI. INPUT
901.14	PAD MOUNT. SUBSTATION 5000 TO 15,000 V PRIMARY - 10 TO 50 KVA
901.15	POLE MOUNT. CONT. STA. SEC. SERV. 120, 240, & 480 V MULTI. CIR.
901.16	POLE MOUNT. CONT. STA. SEC. SERV. 480 V MULTI. CIR. (METERED)
901.17	POLE MOUNT. CONT. STA. SEC. SERV. UTIL. CO. POLE 120/240 V MULTI. CIR.
901.18A	POLE MOUNT. CONT. STA. SEC. SERV. 120/240 V MULTI. CIR.
901.19	POLE MOUNT. CONT. STA. SEC. SERV. 240 V MULTI. CIR. (NOT METERED)
901.20	POLE MOUNT. CONT. STA. SEC. SERV. 120/240 V MULTI. CIR. (SIG. METERED)
901.21	POLE MOUNT. CONT. STA. SEC. SERV. 480 V MULTI. CIR. (NOT METERED)
901.22	POLE MOUNT. CONT. STA. SEC. SERV. 120/240 & 480 V MULTI. CIR. (BOTH METERED)
901.23	POLE MOUNT. CONT. STA. SEC. SERV. 240 V MULTI. CIR. (METERED)
901.24	POLE MOUNT. CONT. STA. SEC. SERV. 240 V MULTI. CIR. (LTS & SIGS-BOTH METERED)
TRAFFIC SIGNALS	
✓ 902.00	SIGNAL HEADS, LENSES AND MOUNTING
✓ 902.10	PULL BOXES, CONTROLLER BASES, POWER SUPPLY, COND. INSTAL.
902.20	POST - CANTILEVER TRUSS TYPE C-1
902.30	POSTS, BUTTERFLY AND CANTILEVER, TYPE B AND C-2
902.40	POST - ONE TUBE CANTILEVER, TYPE C-3
902.50	DETECTORS
902.60	SPAN WIRE DETAILS
HIGHWAY SIGNING	
✓ 903.00A	STANDARD ALPHABETS (SILK SCREEN - 5 SHEETS)
903.01	ALPHABETS (CUT OUT - 5 SHEETS)
903.02B	HIGHWAY SIGNING (11 SHEETS)
903.03J	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
903.09B	LIGHTING SUPPORT BRACKET
903.10C	SIGN TRUSSES - OVERHEAD ALUMINUM (8 SHEETS)
903.12B	SIGN TRUSSES - BUTTERFLY & CANTILEVER - STEEL (7 SHEETS)
903.60C	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 is missing, it will be furnished upon notification and its omission will not be cause for claim on this project.

177

776

12 TO 1

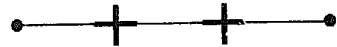
DESIGN DESIGNATION

A.D.T. - 1970 = 3800
A.D. - 1990 = 13,490

U = 50 %
T = 4 %
V = 40 M.P.H.

PARTIAL LIMITED ACCESS HIGHWAY

THIS SHALL BE A PARTIAL LIMITED ACCESS HIGHWAY, EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ADJUTER'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 WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE.



**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

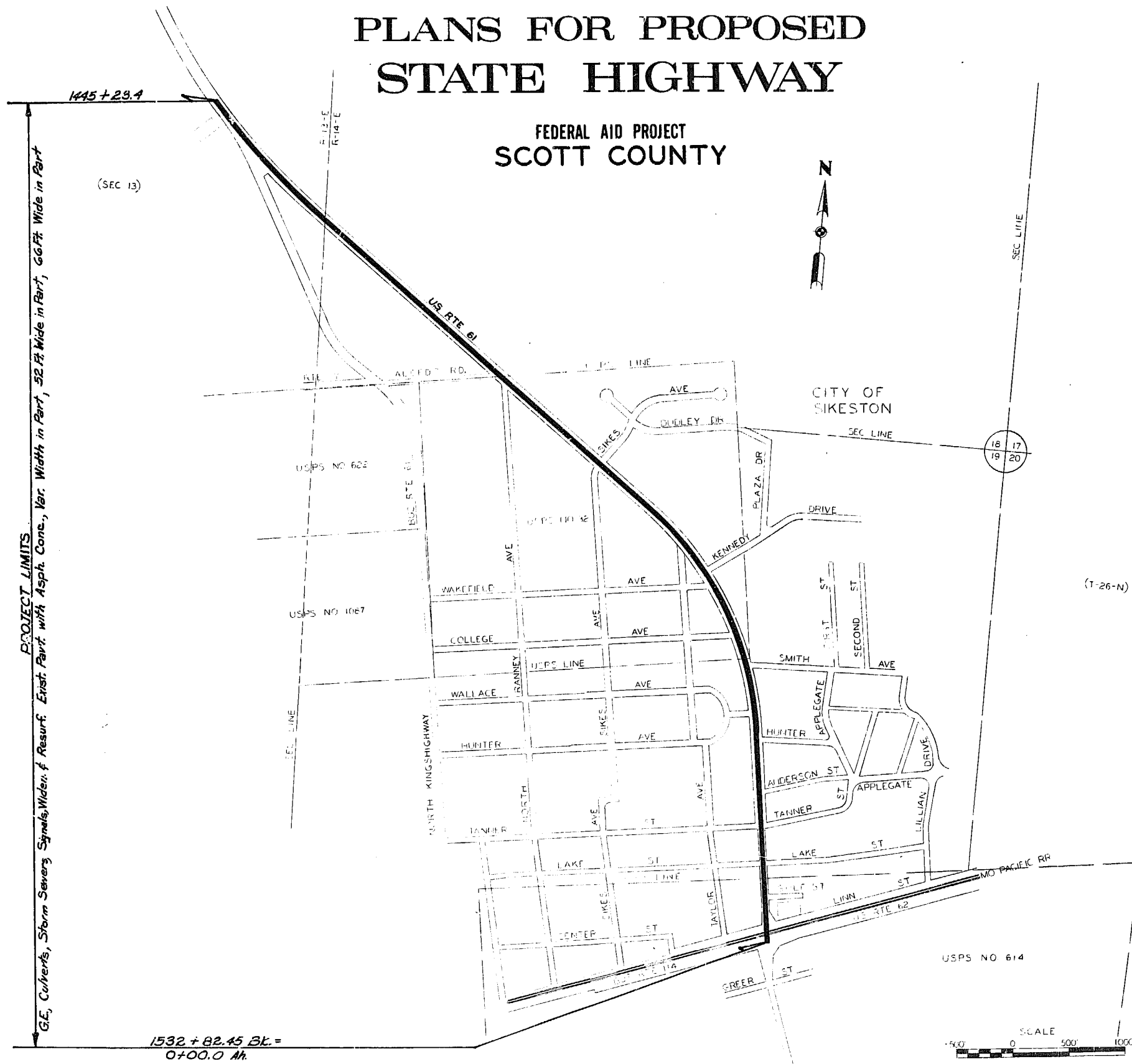
NOTE - DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE.

TITLE SHEET LEGEND

PROJECT INFORMATION SIGNS (2 REQ'D)

**MISSOURI STATE HIGHWAY COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY**

FEDERAL AID PROJECT
SCOTT COUNTY



COUNTY SCOTT
ROUTE 61
PROJECT SU-SUG 211(12)

FINAL PLANS

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL SECTIONS (5 SHEETS)	2
SUMMARY (2 SHEET)	2-A
SUMMARY (6 SHEETS)	2-B
PLAN-PROFILE	3-12
REFERENCE POINTS	13
SPECIAL SHEETS	14-23
LIGHTING	24
SIGNALS	30-33
NOTATIONS	34-45
DRAWINGS	
STANDARD PLANS - INDEX	46
CROSS SECTIONS	1-99
COMPUTER DATA	

LENGTH OF PROJECT

END OF PROJECT	STA. 1532 + 82.45
BEGINNING OF PROJECT	STA. 1445 + 23.4
APPARENT LENGTH	8759.05 FEET
EQUATIONS AND EXCEPTIONS	
1496 + 94.7 BK = 1496 + 98.4 AH = -3.7'	
1526 + 34.2 BK = 1520 + 56.0 AH = +578.2'	
TOTAL CORRECTIONS	+ 574.5 FEET
NET LENGTH OF PROJECT	9333.55 FEET
STATE LENGTH	1.768 MILES
EXCEPTION TO STATE LENGTH	
1537 + 02.51 TO 1537 + 31.05 = 0.00'	
1531 + 06.86 TO 1532 + 04.71 = 0.00'	
FEDERAL LENGTH	9333.55 FEET
FEDERAL LENGTH	1.768 MILES

MISSOURI STATE HIGHWAY COMMISSION

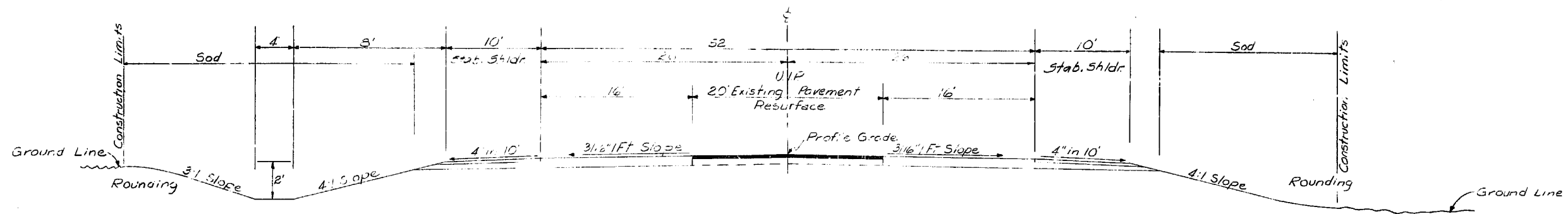
SUBMITTED _____ DATE _____
CHIEF ENGINEER _____

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

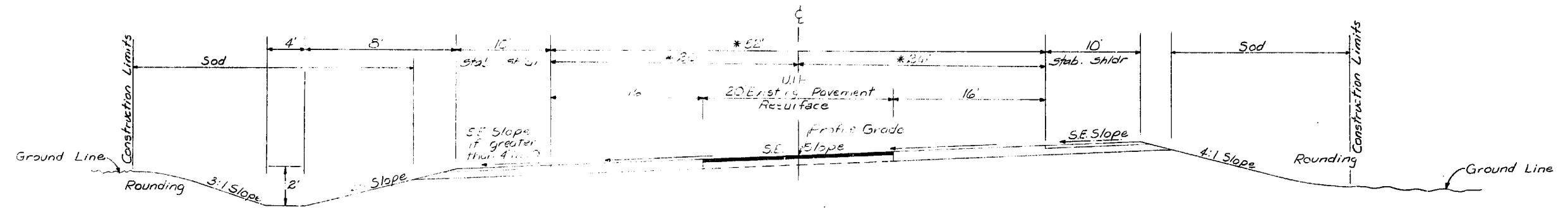
APPROVED _____ DATE _____
DIVISION ENGINEER _____

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	3U-SUG 211(2)	
DIST. NO.	COUNTY	ROUTE	SEC.
10	SCOTT	61	

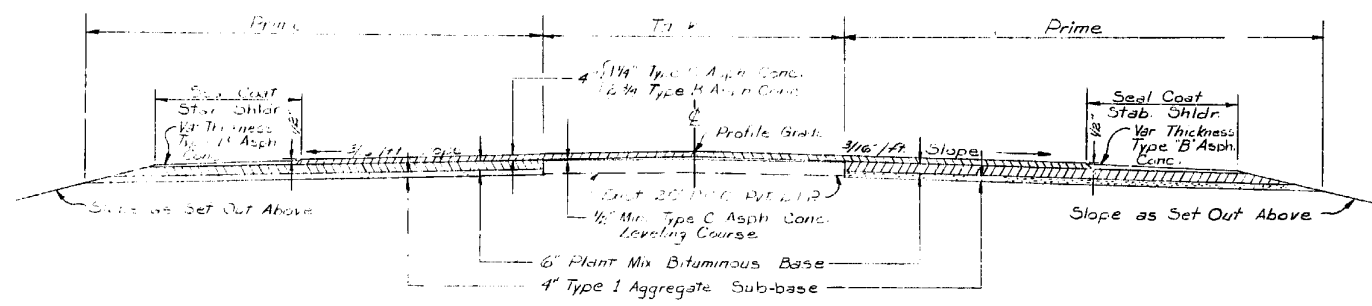
FINAL PLANS



SECTION ON TYPICAL SECTION



SECTION ON SUPERELEVATED CURVE
*1445+24 FT - 52 FT STA 144+23.4 TO STA 145.2+04.5

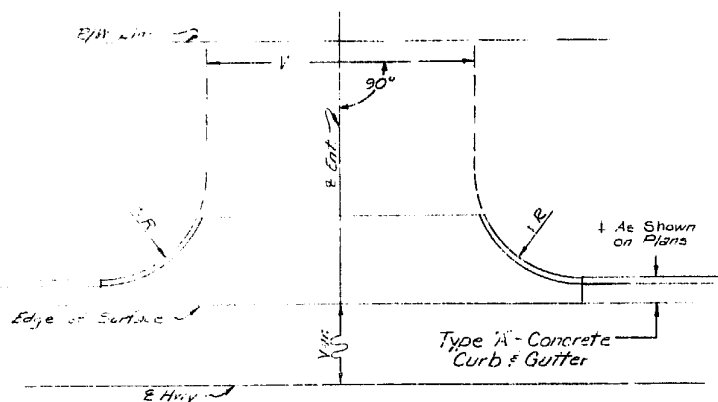


SURFACING TYPICAL SECTION

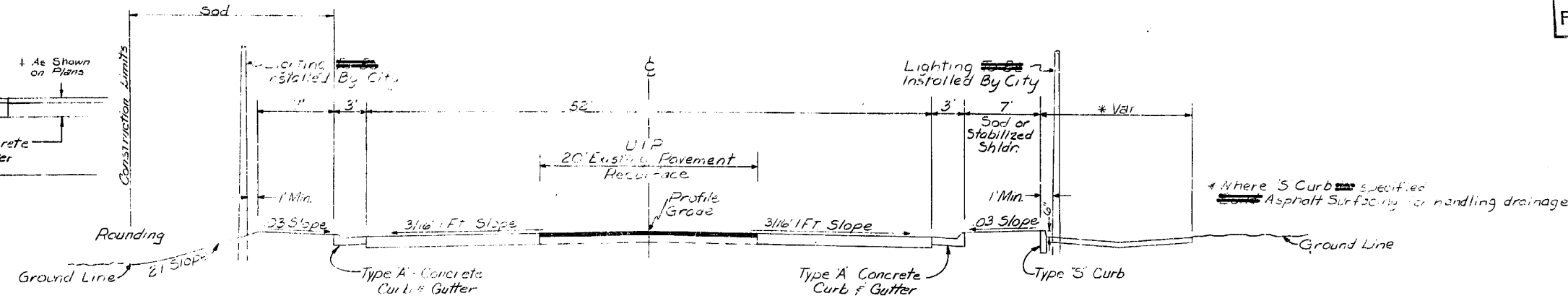
TYPICAL SECTION
ROUTE 61 SCOTT COUNTY
STA. 1445+23.4 TO STA. 1450+69

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	5U-SUG 211(12)	
DIST. NO.	COUNTY	ROUTE	SEC.
10	SCOTT	61	1

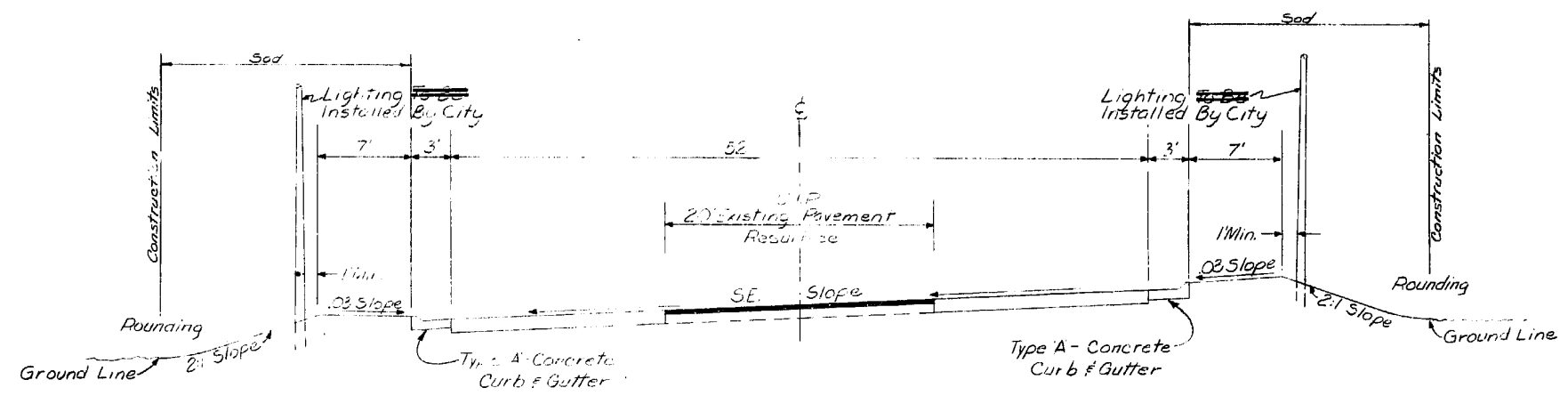
FINAL PLANS



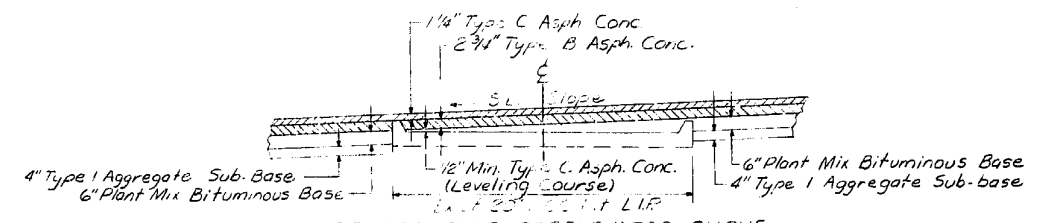
MEASUREMENT OF APPROACHES
(Curb & Gutter Section)
STA. 1490+50 TO STA. 1532+82.45



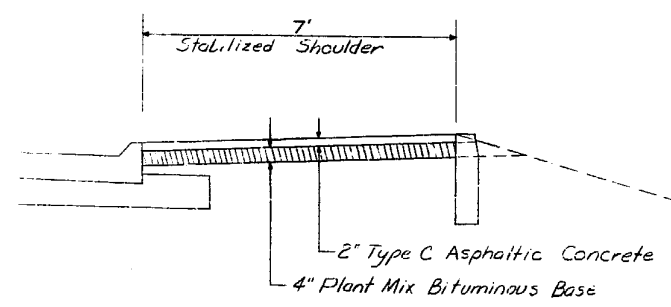
SECTION ON TANGENT



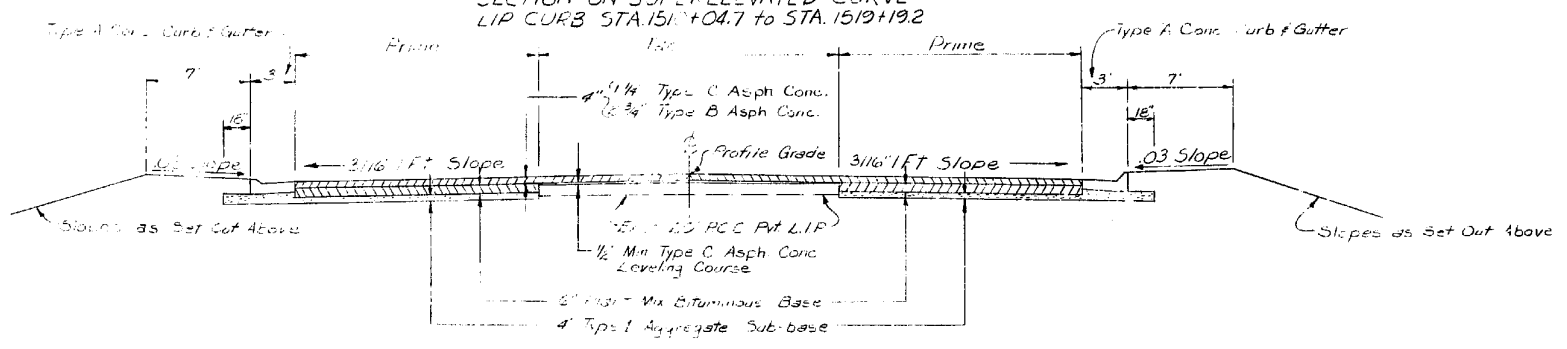
SECTION ON SUPERELEVATED CURVE



SECTION ON SUPERELEVATED CURVE
LIP CURB STA. 1511+04.7 TO STA. 1519+19.2



DETAIL OF STABILIZED SHOULDERS
STA. 1522+90 TO STA. 1525+88.6 on RIGHT
STA. 1522+32 TO STA. 1525+88.6 on LEFT



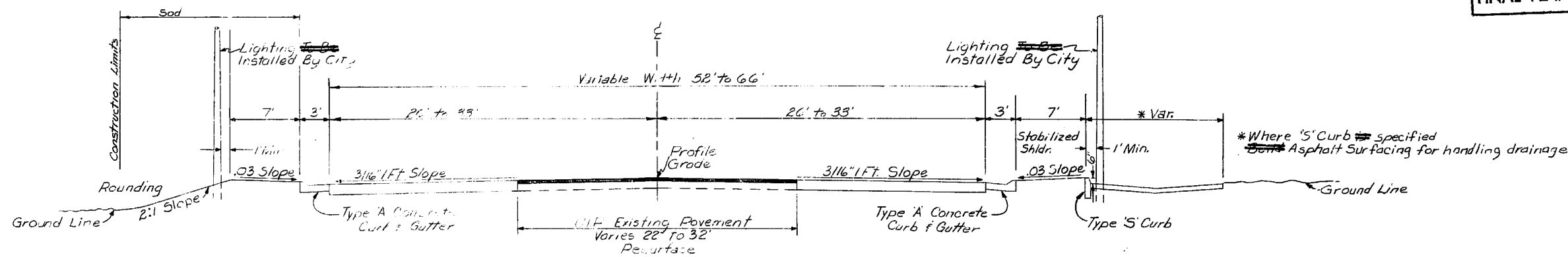
SURFACING TYPICAL SECTION

TYPICAL SECTION
ROUTE 61 SCOTT COUNTY
STA. 1490+63 TO STA. 1525+88.6

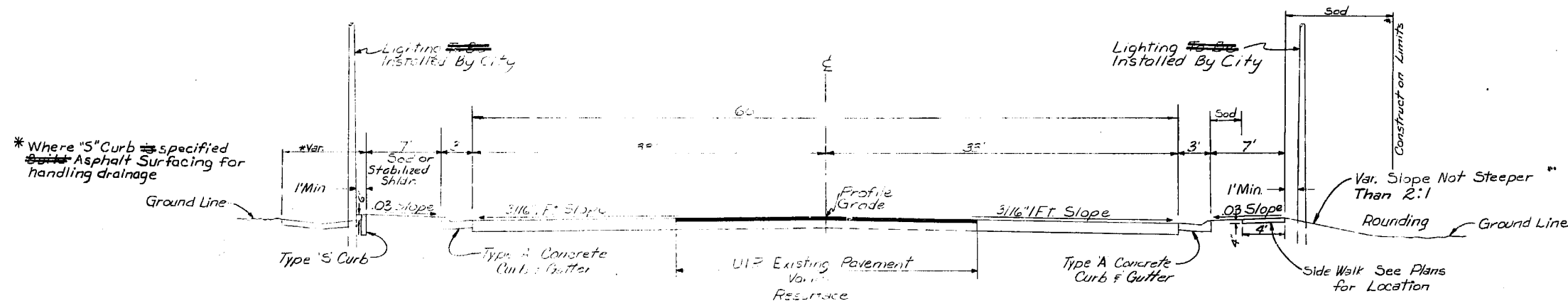
Sheet 2 of 3

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	511-516 21(12)	
DIST. No.	COUNTY	ROUTE	SEC.
10	SCOTT	61	

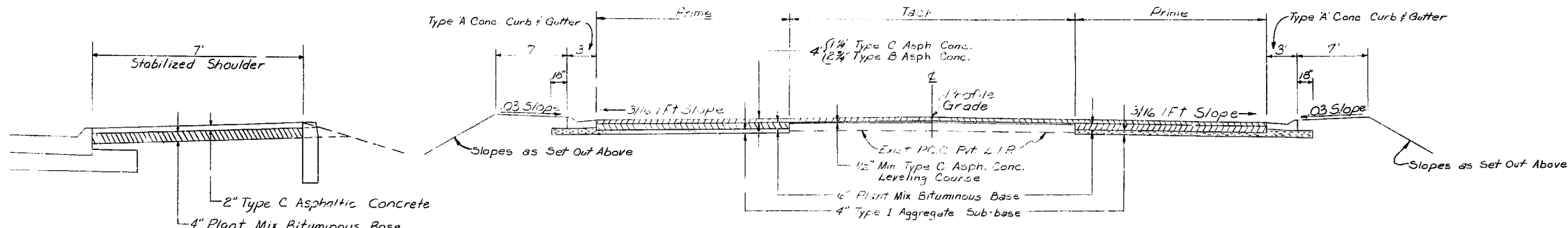
FINAL PLANS



TYPICAL SECTION STA. 1525+88.6 TO STA. 1521+66



TYPICAL SECTION STA. 1521+66 TO STA. 1532+82.45



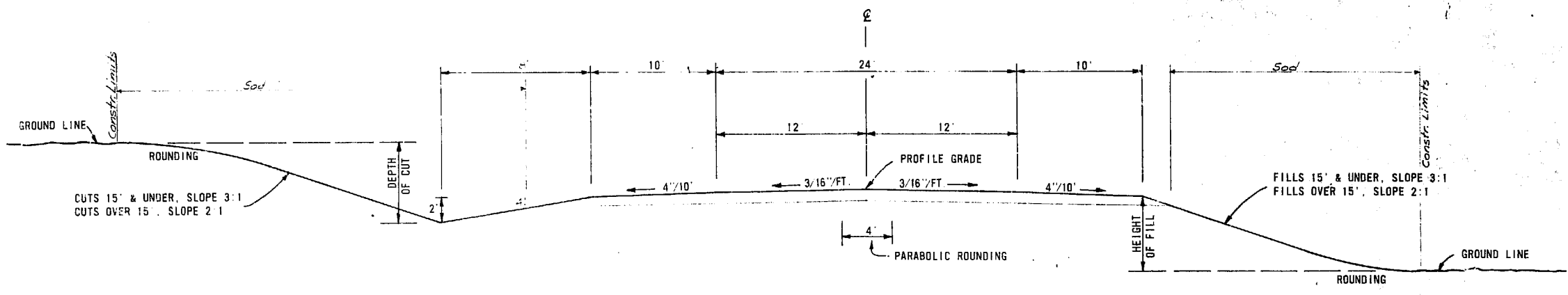
TYPICAL SECTION ROUTE 61 SCOTT COUNTY STA. 1525+88.6 TO STA. 1532+82.45

DETAIL OF STABILIZED SHOULDERS
 STA. 1525+88.6 (Bx. of Equa.) to STA. 1525+427 (Ah. of Equa.) on RIGHT
 STA. 1525+88.6 (Bx. of Equa.) to STA. 1530+93.0 on LEFT

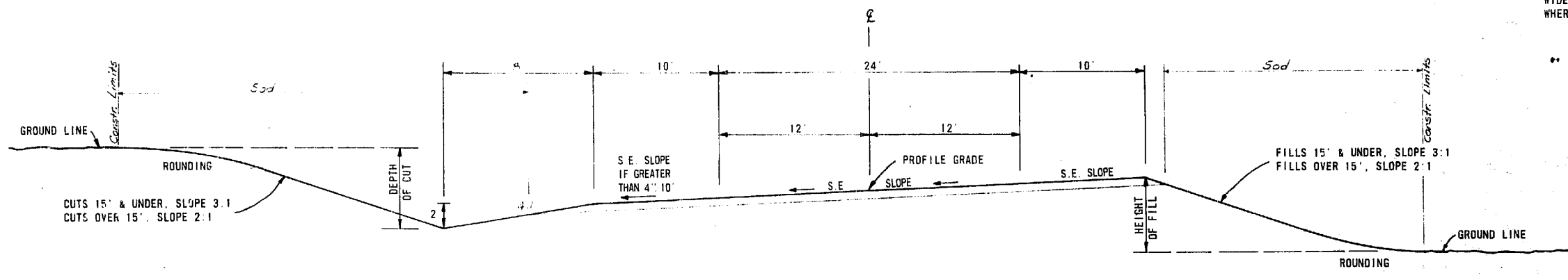
† For Additional Surfacing information, Sta. 1530+055 Ah. See Special Sheet #6

5	MD.	SU-5UG 211(12)
10	SCOTT	61

FINAL PLANS

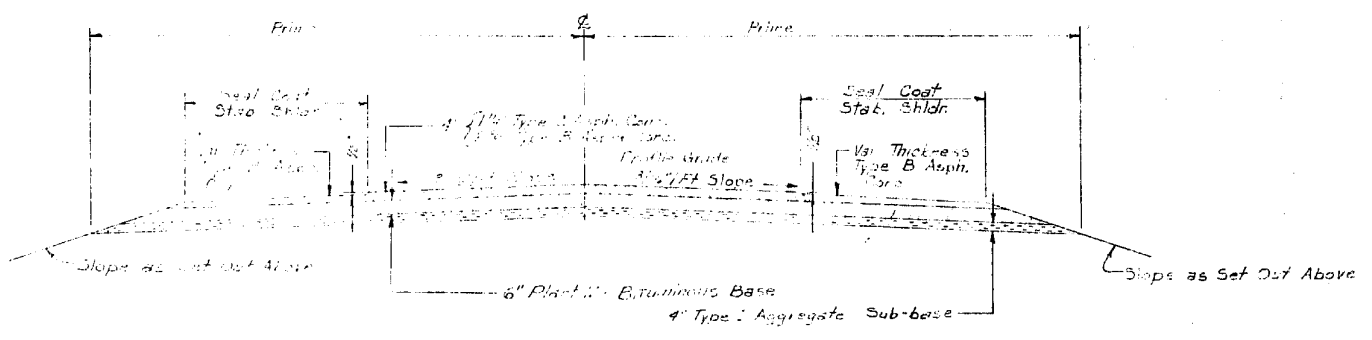


SECTION ON TANGENT



SECTION ON SUPERELEVATED CURVE

WIDEN SHOULDER 2 FEET (IN CUTS OR FILLS)
WHERE GUARD RAIL IS TO BE CONSTRUCTED
(1 IN 20 TRANSITION)

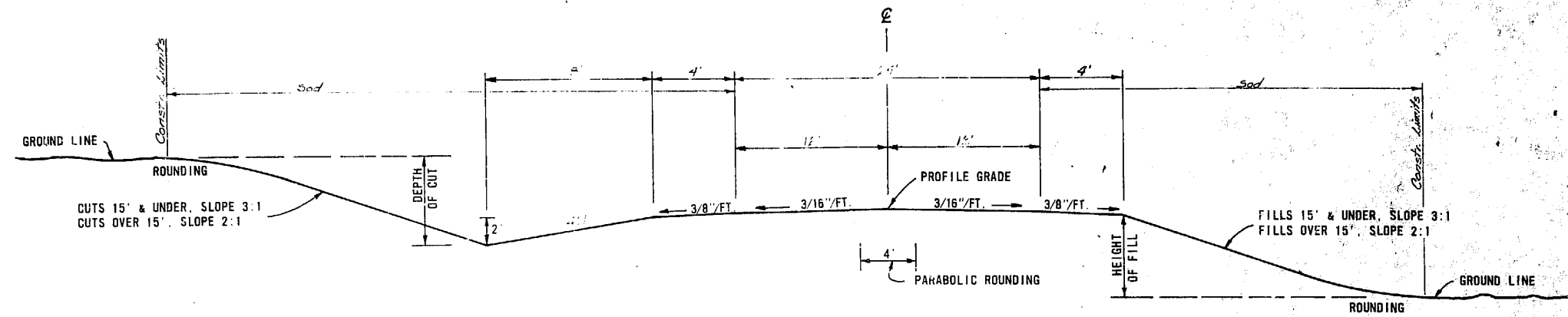


SURFACING TYPICAL SECTION

TYPICAL SECTION
BUS. RT. 61 CONNECTION
STA. 1453+0.0

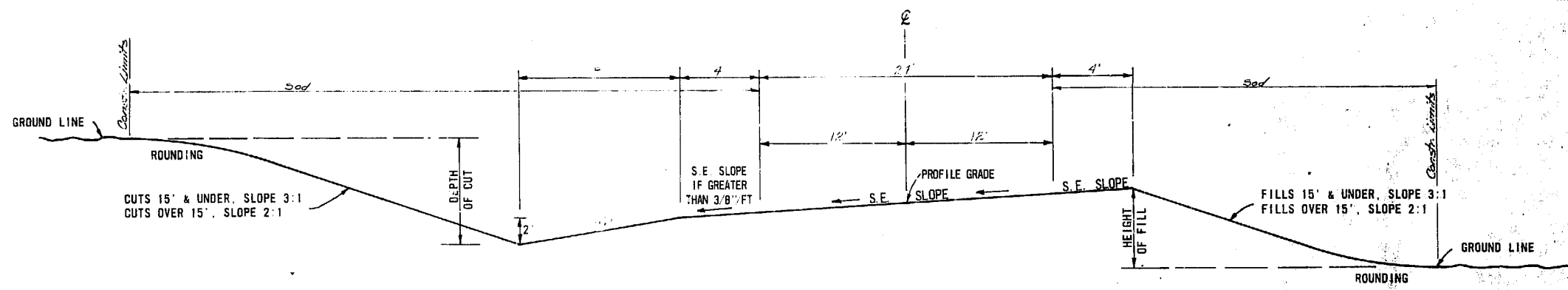
NO.	DATE	REVISION	BY
5	MO.	SLI-SUG 211(12)	
10		SCOTT	61

FINAL PLANS

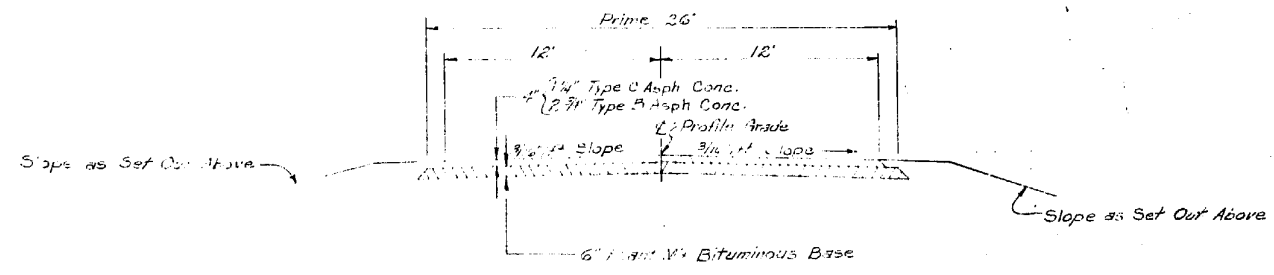


SECTION ON TANGENT

WIDEN SHOULDER 2 FEET (IN CUTS OR FILLS)
WHERE GUARD RAIL IS TO BE CONSTRUCTED.
(1 IN 20 TRANSITION)



SECTION ON SUPERELEVATED CURVE



SURFACING TYPICAL SECTION

TYPICAL SECTION
SIDE ROAD CONNECTION
STA. 1478+00
(SALCEDO ROAD)

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIVISION	STATE	PROJECT	SHEET NO.
5	MO.	SU-SUG-211(12)	2A
DIST NO.		COUNTY	ROUTE
10		SCOTT	61

Sheet 1 of 2

ITEM	DESCRIPTION	UNIT	QUANTITY		ITEM	DESCRIPTION	UNIT	QUANTITY		ITEM	DESCRIPTION	UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1		609-20.15	INTEGRAL CURB TYPE D	LIN. FT.	39					
203-10.00	CLASS A EXCAVATION	CU. YD.	20329		609-20.32	CONC. CURB LOW PROFILE TYPE F	LIN. FT.	217					
203-20.00	COMPACTING EMBANKMENT	CU. YD.	15335		612-10.50	MOVABLE BARRICADES	EACH	8					
203-70.00	COMPACTING IN CUT	CU. YD.	908		612-20.10	STANDARD CONSTRUCTION SIGNS	LUMP SUM	1					
206-30.00	CLASS 3 EXCAVATION	CU. YD.	14756		613-99.95	SURFACE REPLACEMENT	LUMP SUM	1					
301-10.00	ASPHALT CEMENT (BITUMINOUS BASE)	TON	6815		614-10.10	GRATES AND BEARING PLATES	POUND	3,860					
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	14464		614-30.10	MANHOLE FRAME AND COVER, TYPE 1-A	EACH	11					
304-01.02	TYPE 1 AGGREGATE FOR BASE	TON	11914		614-30.12	MANHOLE FRAME AND COVER, TYPE 2	EACH	5					
304-11.43	PROCESSING TYPE 1 AGGREGATE (4 IN. THICK)	MILE	1.75		614-30.13	MANHOLE FRAME AND COVER, TYPE 3	EACH	47					
304-11.44	PROCESSING TYPE 1 AGGREGATE (4 IN. THICK)	SQ. YD.	2835		614-30.14	MANHOLE FRAME AND COVER TYPE 4	EACH	10					
310-50.01	CRUSHED STONE (B)	CU. YD.	44		614-30.20	CURB INLET	EACH	1					
403-10.00	TYPE B ASPHALTIC CONCRETE	TON	9945		703-20.01	CLASS B CONCRETE (CULVERTS)	CU. YD.	1956					
403-20.00	TYPE C ASPHALTIC CONCRETE	TON	8086		703-20.02	CLASS B CONCRETE (MISC)	CU. YD.	570					
403-40.00	SPOT WEDGE	TON	212		703-99.95	CL. B CONCRETE (SPECIAL)	CU. YD.	2.3					
407-10.10	TACK-LIQUID ASPHALT	GALLON	790		706-10.00	REINFORCING STEEL	POUND	28410					
407-20.00	SANDING TACK	CU. YD.	34		725-02.18	18 IN. PIPE CULVERT GROUP II	LIN. FT.	246					
408-10.15	PRIME LIQUID ASPHALT MC 30	GALLON	17300		725-02.24	24 IN. PIPE CULVERT GROUP II	LIN. FT.	40					
409-10.30	BITUMINOUS MATERIAL (SEAL COAT) ASPHALT CEMENT	GALLON	2850		725-10.12	12 IN. CORRUGATED GALVANIZED METAL PIPE	LIN. FT.	8					
409-20.22	COVER AGGREGATE GRADE 2	TON	110		725-99.95	42 IN. ENCASMENT (CORRUGATED GALVANIZED METAL PIPE)	LIN. FT.	36					
502-99.95	RAILROAD APPROACH SLAB (9 IN. REINFORCED CONCRETE PAVEMENT)	SQ. YD.	418.3		726-13.12	12 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	32					
601-10.00	FIELD LABORATORIES	LUMP SUM	1		726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	1060					
602-30.00	CONCRETE RIGHT-OF-WAY MARKER	EACH	46		726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	1,024					
603-10.03	3 IN. WATER PIPE	LIN. FT.	0		726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	2,807					
603-10.04	4 IN. WATER PIPE	LIN. FT.	21		726-13.30	30 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	2,675					
603-50.01	FITTINGS	LBS.	110		726-13.36	36 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	894					
603-60.00	RELOCATING METER	EACH	1		726-13.42	42 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN. FT.	841					
603-63.00	RELOCATING SERVICE CONNECTION	EACH	4		726-23.36	36 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT (GASKET TYPE)	LIN. FT.	417					
604-40.12	PIPE COLLAR, TYPE A	EACH	2		726-41.08	8 IN. VITRIFIED CLAY CULVERT AND SEWER PIPE (EXTRA STRENGTH)	LIN. FT.	4					
608-10.00	CONCRETE MEDIAN	SQ. YD.	195.2		726-99.95	36 IN. X 60 IN. CLASS HE-III REINFORCED CONCRETE PIPE CULV. (ELLIPTICAL)	LIN. FT.	272					
608-50.07	PAVED APPROACH, 7 IN.	SQ. YD.	123.6		726-99.96	48 IN. X 84 IN. CLASS HE-III REINFORCED CONCRETE PIPE CULV. (ELLIPTICAL)	LIN. FT.	730					
608-50.08	PAVED APPROACH, 8 IN.	SQ. YD.	3434.0		726-99.97	48 IN. X 76 IN. CLASS HE-III REINFORCED CONCRETE PIPE CULV. (ELLIPTICAL)	LIN. FT.	86					
608-60.04	CONCRETE SIDEWALK, 4 IN.	SQ. YD.	262.0		731-00.48	PRECAST CONCRETE MANHOLE - 48 IN.	FT	23					
608-99.95	ENTRANCE STEPS	LUMP SUM	1		731-00.60	PRECAST CONCRETE MANHOLE - 60 IN.	FT	55					
609-10.10	CONCRETE CURB 16 IN. HEIGHT AND UNDER TYPE S	LIN. FT.	1439		731-00.72	PRECAST CONCRETE MANHOLE - 72 IN.	FT	41					
609-10.41	CONCRETE GUTTER TYPE A	LIN. FT.	60		732-00.24	24 IN. FLARED END SECTION	EACH	4					
609-10.42	CURE AND GUTTER TYPE A	LIN. FT.	6584		733-10.02	PRECAST CONCRETE DROP INLET 2 FT X 2 FT	FT	0					
609-10.43	PAVED DITCH	SQ. YD.	125.8		733-10.30	PRECAST CONCRETE DROP INLET 3 FT X 2 FT 6 IN.	FT	200					
609-20.11	INTEGRAL CURB 16 IN. HEIGHT AND UNDER TYPE A	LIN. FT.	10		733-10.32	PRECAST CONCRETE DROP INLET 3 FT X 3 FT	FT	109					

Project Accepted 10-15-73

Prepared by Henry P. Blandford Date 11-19-73

Checked in Dist. Office by John L. ... Date 12-11-73

Checked in Central Office by ... Date ...

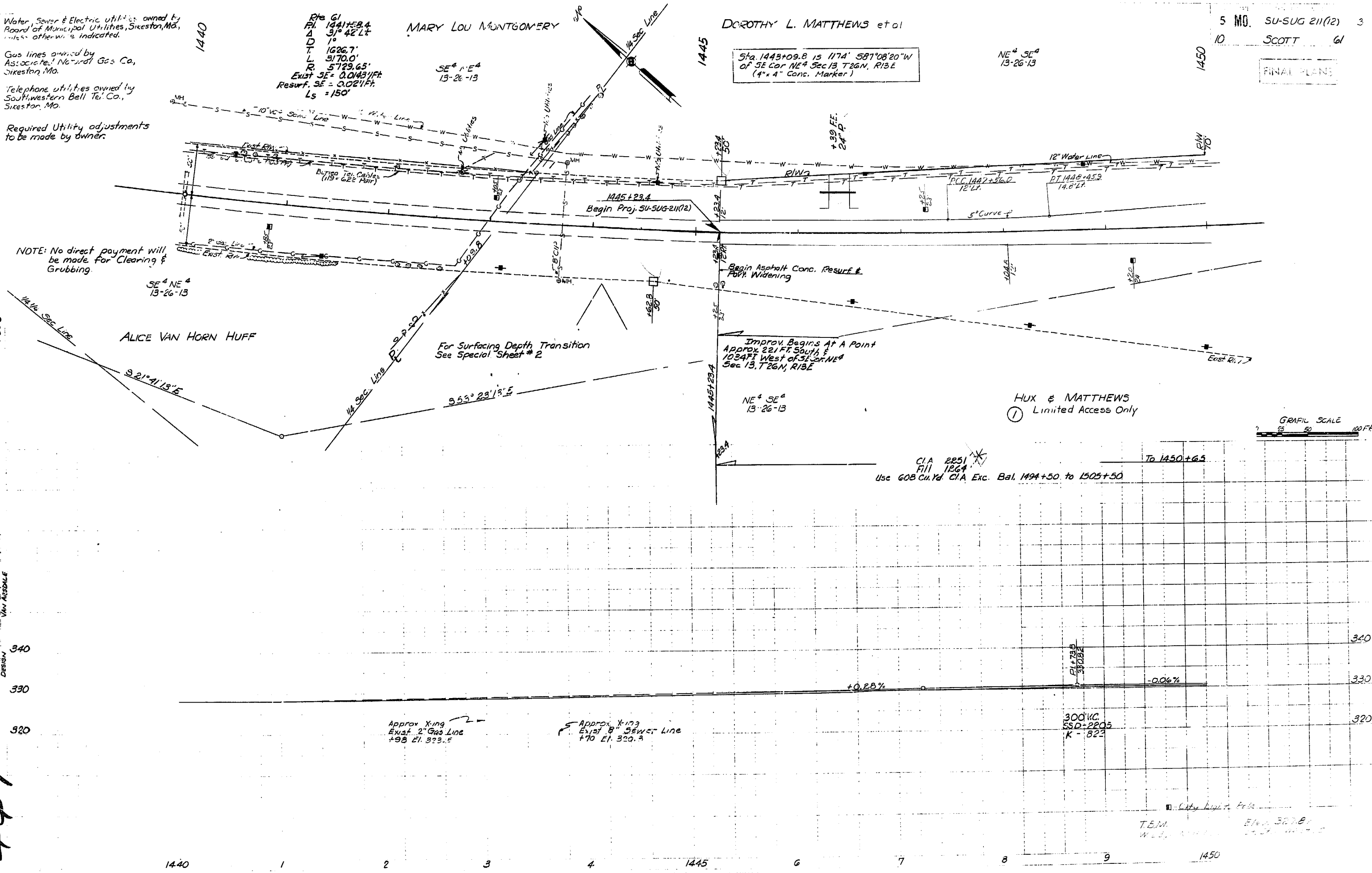
Water, Sewer & Electric utilities owned by Board of Municipal Utilities, Sikeston, Mo., unless otherwise indicated.

Gas lines owned by Associated Natural Gas Co., Sikeston, Mo.

Telephone utilities owned by Southwestern Bell Tel. Co., Sikeston, Mo.

Required Utility adjustments to be made by owner.

NOTE: No direct payment will be made for Clearing & Grubbing



Rte 61
 Pk 1441+58.4
 A 31° 42' Lt
 D 1°
 T 1626.7'
 L 5170.0'
 R 5729.65'
 Exist SE = 0.01431 Ft
 Resurf. SE = 0.0211 Ft
 Ls = 150'

MARY LOU MONTGOMERY

DOROTHY L. MATTHEWS et al

5 MO. SU-SUG 211(12) 3
 10 SCOTT 61

Sta. 1443+09.8 is 1174' S87°08'20"W
 of SE Cor NE 4 Sec 13 T26N, R13E
 (4" x 4" Conc. Marker)

NE 4 SE 4
 13-26-13

FINAL PLANS

SE 4 NE 4
 13-26-13

ALICE VAN HORN HUFF

For Surfacing Depth Transition
 See Special Sheet # 2

Improv. Begins At A Point
 Approx. 221 FT South &
 1034 FT West of SE Cor NE 4
 Sec 13, T26N, R13E

NE 4 SE 4
 13-26-13

HUX & MATTHEWS
 Limited Access Only

GRAPHIC SCALE
 0 25 50 100 FT

CIA 2251
 Fill 1264
 Use 608 Cu. Yd. CIA Exc. Bal. 1494+50 to 1505+50

To 1450+65

449
 J.E. Wood
 VAN ARSDALE
 DESIGN
 752-D
 11-68

1440 1 2 3 4 1445 5 6 7 8 9 1450

Approx X-179
 Exist 2" Gas Line
 +98 El. 323.5

Approx X-173
 Exist 8" Sewer Line
 +70 El. 320.3

300 WC
 SSD-2205
 K-825

City Right of Way
 T.E.M.
 W.L.S.
 ELEV. 327.87

5	MD	SU-SUG 211(12)	4
10		SCOTT	G1

FINAL PLANS

DOROTHY L. MATTHEWS et al

Rte. G1
 P.I. 141+58.4
 Δ 31°42' Lt.
 D 1°
 T 1626.7'
 L 3170.0'
 R 5729.65'
 SE = 0.021%
 LS = 150'

NE 4 SE 4
 13-26-13

P.O.C. 1453+00.0 Rte. G1 =
 P.O.T. 4+67.3 Bus. Rte. G1
 +00 SR ~ W = 10'
 Future Const. by others

UPPER RT. 1455
 100-312 Box
 Curb

N 1/2 LOT 2 FRL SW 4
 18-26-14

1/2 Lot Line

5 1/2 LOT 2
 FRL SW 4
 18-26-14

③ TRUSTEES OF THE
 FIRST UNITED METHODIST CHURCH
 Limited Access R/W ~ 0.47 Ac.
 Non-Limited Access R/W ~ 0.44 Ac.
 Remainder Rt. ~ 6.34 Ac.

GRAPHIC SCALE
 0 25 50 100 FT

For Intersection Detail
 See Special Sheet #2

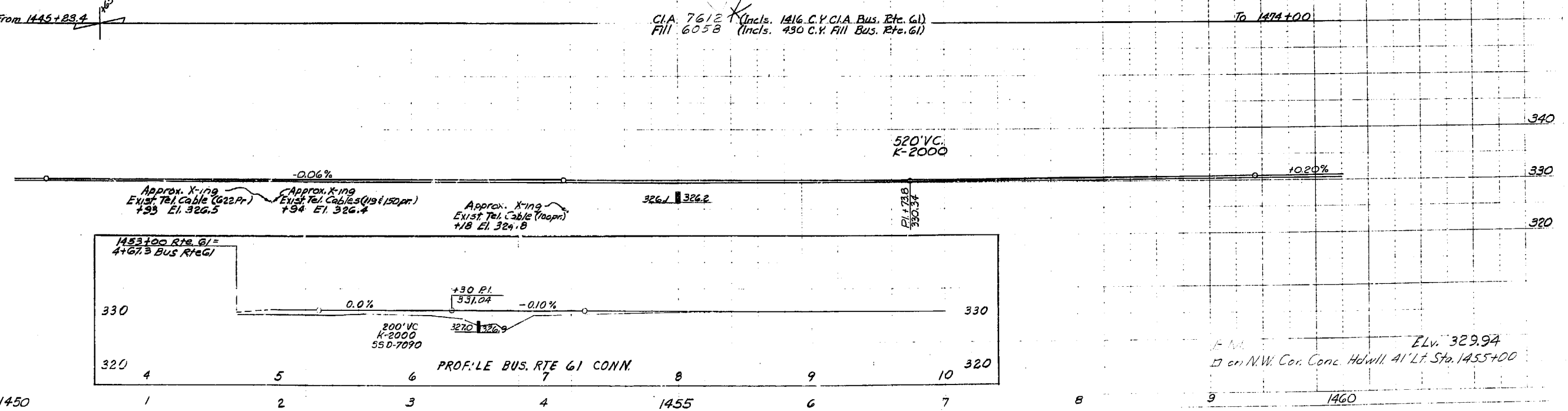
From 1445+83.4

CIA 761.2 (Incls. 1416 C.Y. CIA Bus. Rte. G1)
 Fill 605.8 (Incls. 430 C.Y. Fill Bus. Rte. G1)

To 1474+00

V.M. AREOLLE

DESIGN
 340
 330
 320



700

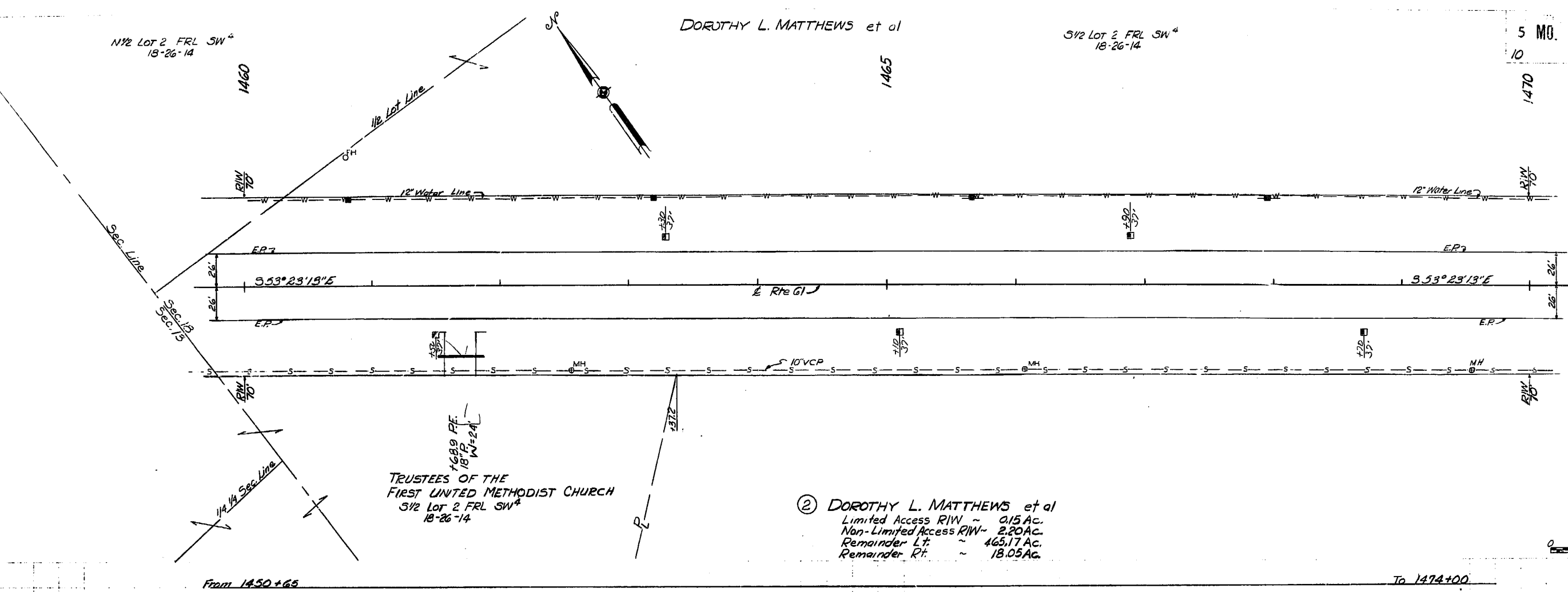
N 1/2 Lot 2 FRL SW 1/4
18-26-14

DOROTHY L. MATTHEWS et al

S 1/2 Lot 2 FRL SW 1/4
18-26-14

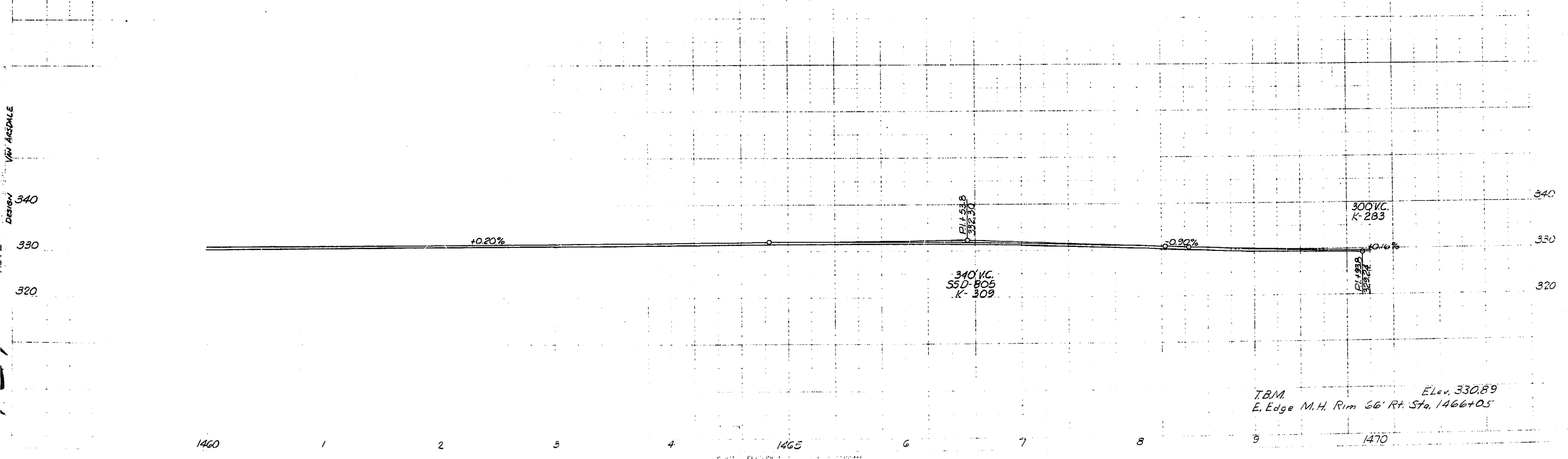
5 MO. SU-SUG 211(12) 5
10 SCOTT 61

FINAL PLANS

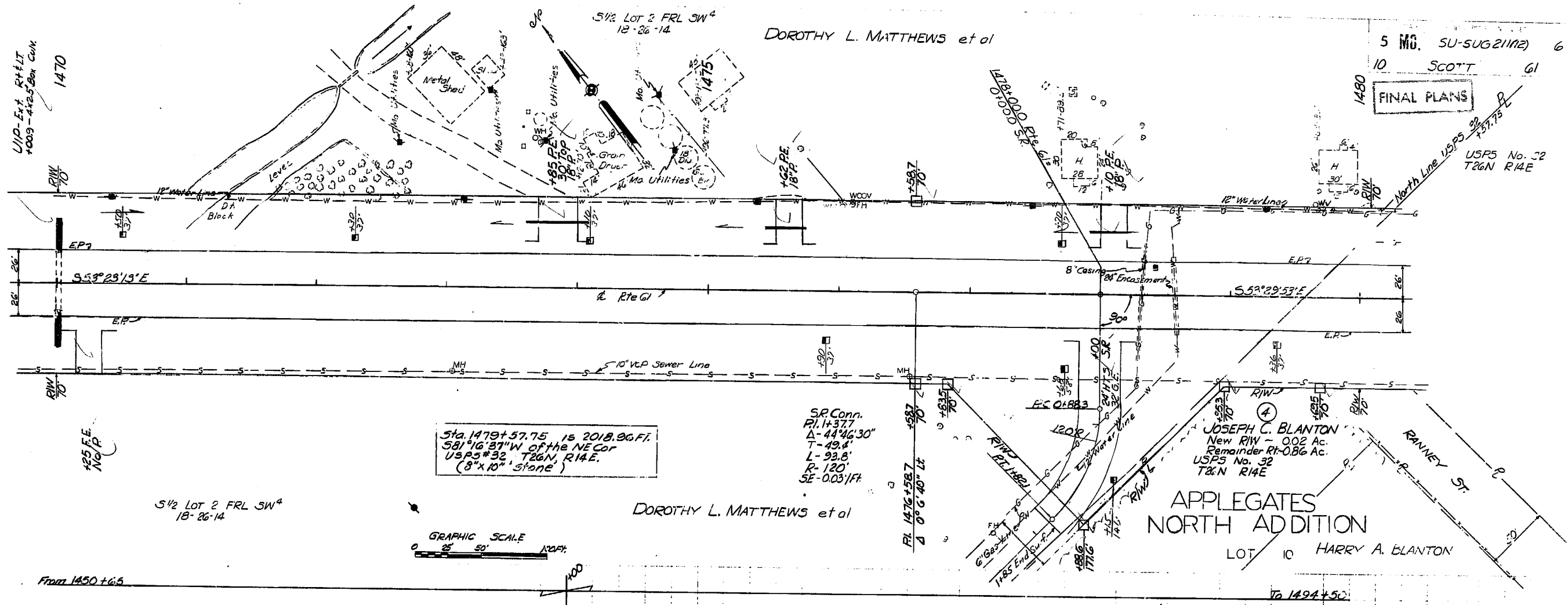


② DOROTHY L. MATTHEWS et al
 Limited Access RIW ~ 0.15 Ac.
 Non-Limited Access RIW ~ 2.20 Ac.
 Remainder Lt. ~ 465.17 Ac.
 Remainder Rt. ~ 18.05 Ac.

GRAPHIC SCALE
 0 25 50 100 FT



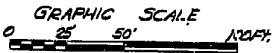
T.B.M.
 E. Edge M.H. Rim 66' Rt. Sta. 1466+05
 Elev. 330.89



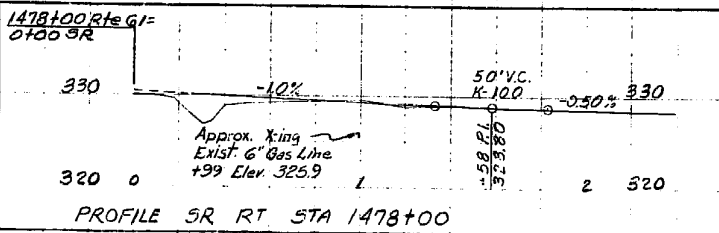
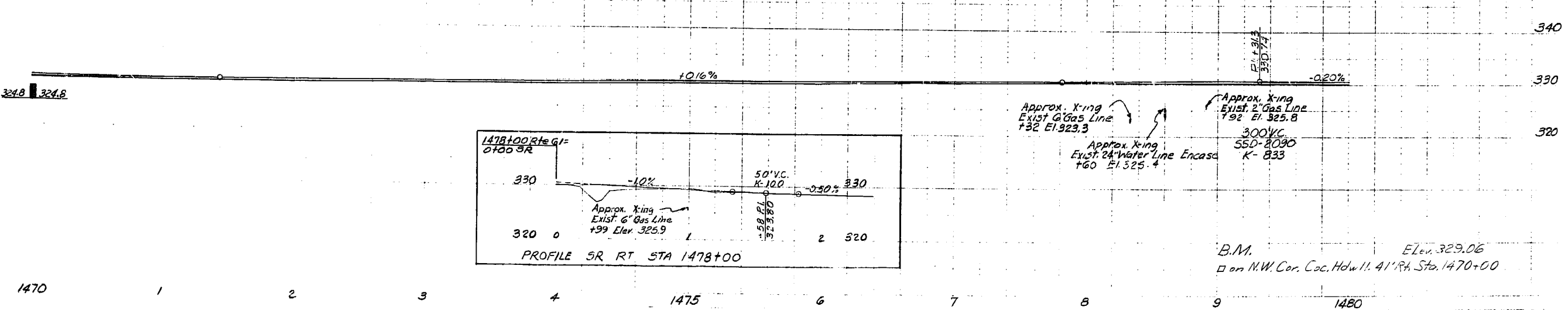
Sta. 1479+57.75 is 2018.86 Ft.
 S81°16'37"W of the NE Cor
 USPS #32, T26N, R14E.
 (8" x 10" stone)

S.R. Conn.
 P.I. 1+377
 Δ-44'46.30"
 T-49.8'
 L-93.8'
 R-120'
 SE-0.031/Ft

JOSEPH C. BLANTON
 New RIW - 0.02 Ac.
 Remainder RI-0.86 Ac.
 USPS No. 32
 T26N R14E



From 1450+65 To 1494+50



Approx. X-ing
 Exist. 6" Gas Line
 +32 El. 323.3

Approx. X-ing
 Exist. 24" Gas Line
 +92 El. 325.8

Approx. X-ing
 Exist. 24" Water Line Encasement
 +60 El. 325.4

300 V.C.
 550-8090
 K-833

B.M.
 on N.W. Cor. Cac. Hdwy. 41' Rt. Sta. 1470+00
 Elev. 329.06

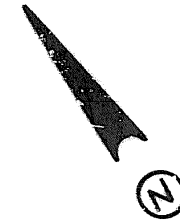
1470 1 2 3 4 1475 6 7 8 9 1480

STATE	FEDERAL PROJ.	SEC.	NO.
5	SU-SUG-21(12)		
COUNTY			
10	SCOTT	61	
PP-6			

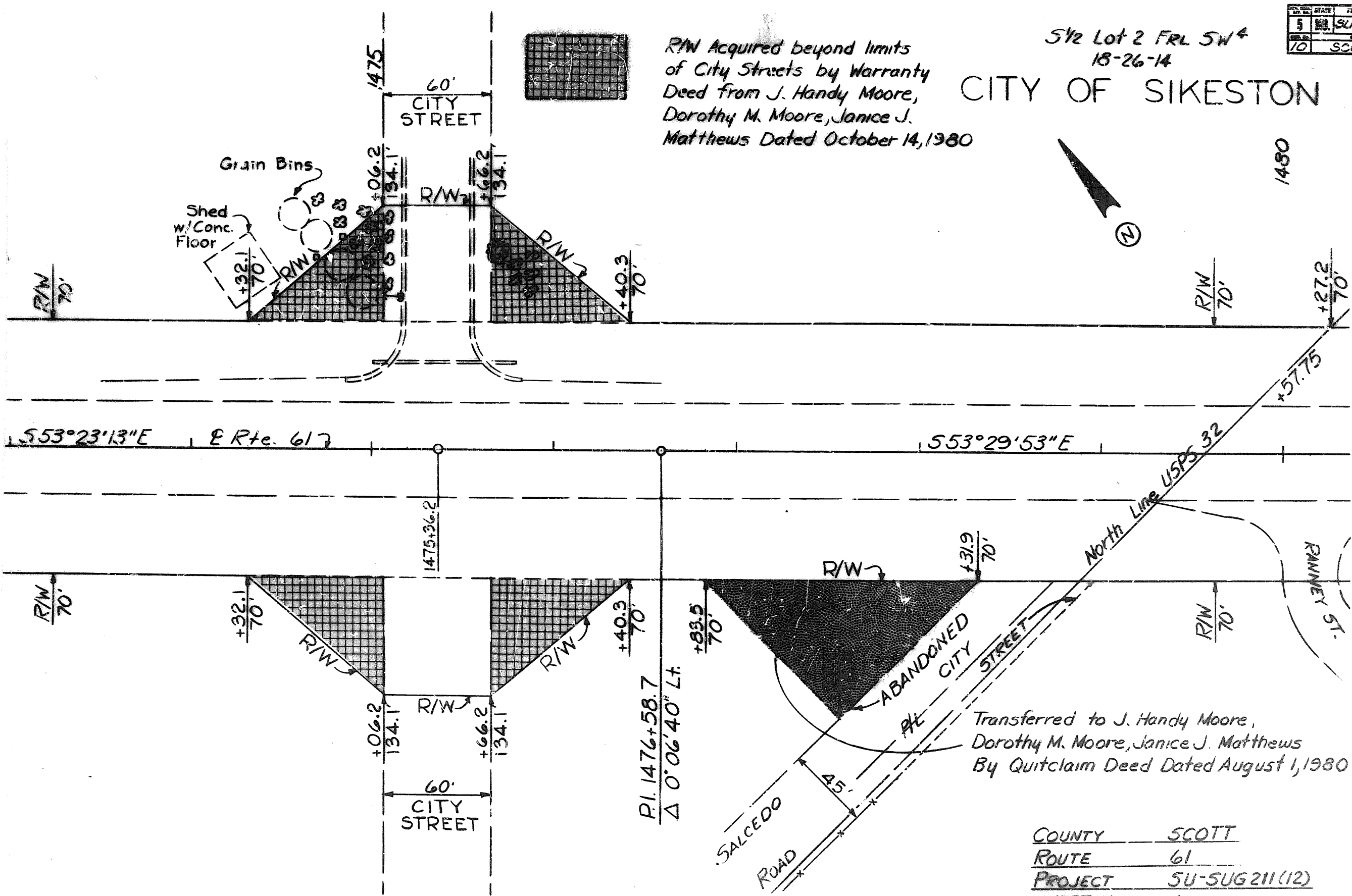
5/2 Lot 2 FRL SW 4
18-26-14

CITY OF SIKESTON

R/W Acquired beyond limits
of City Streets by Warranty
Deed from J. Handy Moore,
Dorothy M. Moore, Janice J.
Matthews Dated October 14, 1980



Grain Bins
Shed
w/Conc.
Floor



COUNTY	SCOTT
ROUTE	61
PROJECT	SU-SUG211(12)
SHEET NO.	6

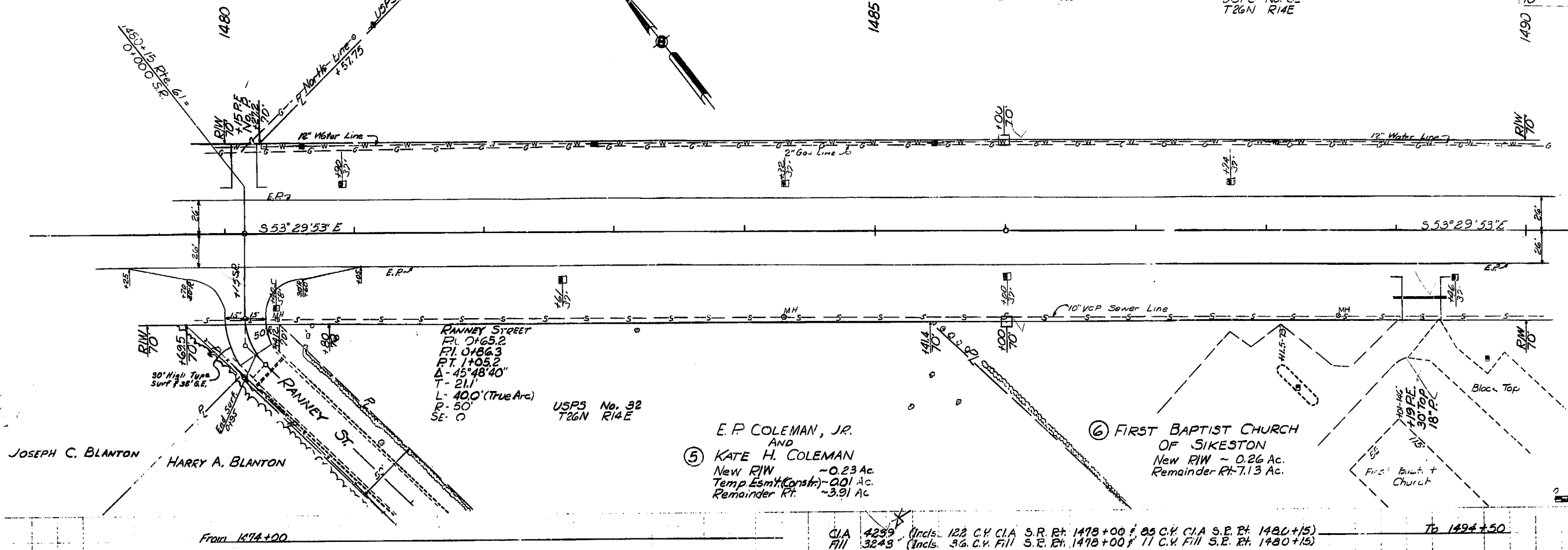
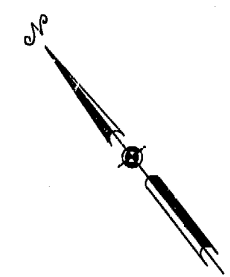
1/2 LOT 2 FRL SW 4
18-26-14

⑦ C. D. MATTHEWS, ESTATE, INC.
New RIW - 0.19 Ac.
Remainder Lt. - 6.19 Ac.

USPS No. 32
T26N R14E

5 MO. SU-SUG 211(12) 7
10 SCOTT 61

FINAL PLANS



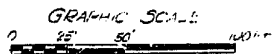
JOSEPH C. BLANTON
HARRY A. BLANTON

RANNEY STREET
P.I. 0+65.2
P.L. 0+86.3
P.T. 1+05.2
Δ - 45°48'40"
T - 21.1
L - 40.0 (True Arc)
R - 50'
SE - 0

USPS No. 32
T26N R14E

E. P. COLEMAN, JR.
AND
⑤ KATE H. COLEMAN
New RIW - 0.23 Ac.
Temp. Esmt. (Const.) - 0.01 Ac.
Remainder Rt. - 3.91 Ac.

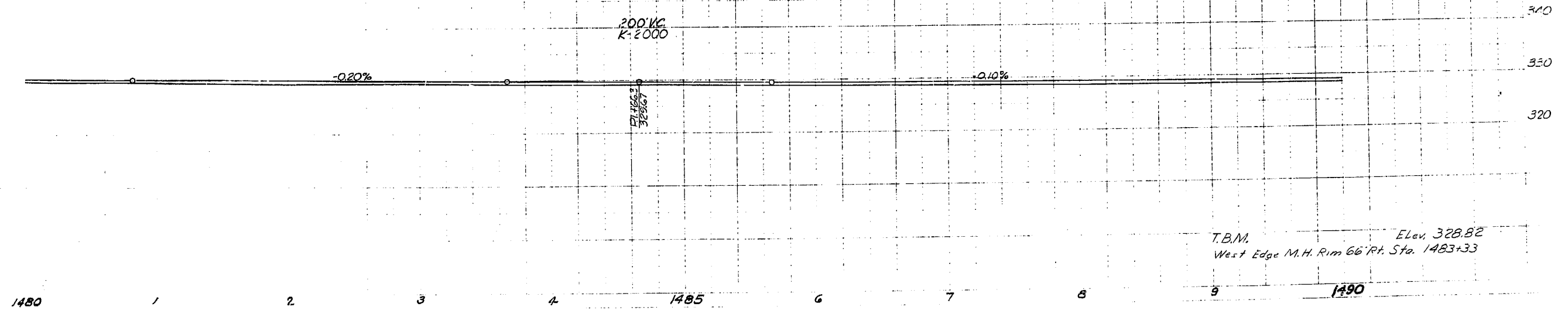
⑥ FIRST BAPTIST CHURCH
OF SIKESTON
New RIW - 0.26 Ac.
Remainder Rt. - 7.13 Ac.



CIA 4239 (Incls. 122 C.Y. CIA S.R. Pt. 1478+00 & 25 C.Y. CIA S.E. Pt. 1480+15)
Fill 3243 (Incls. 36 C.Y. Fill S.R. Pt. 1478+00 & 11 C.Y. Fill S.E. Pt. 1480+15)

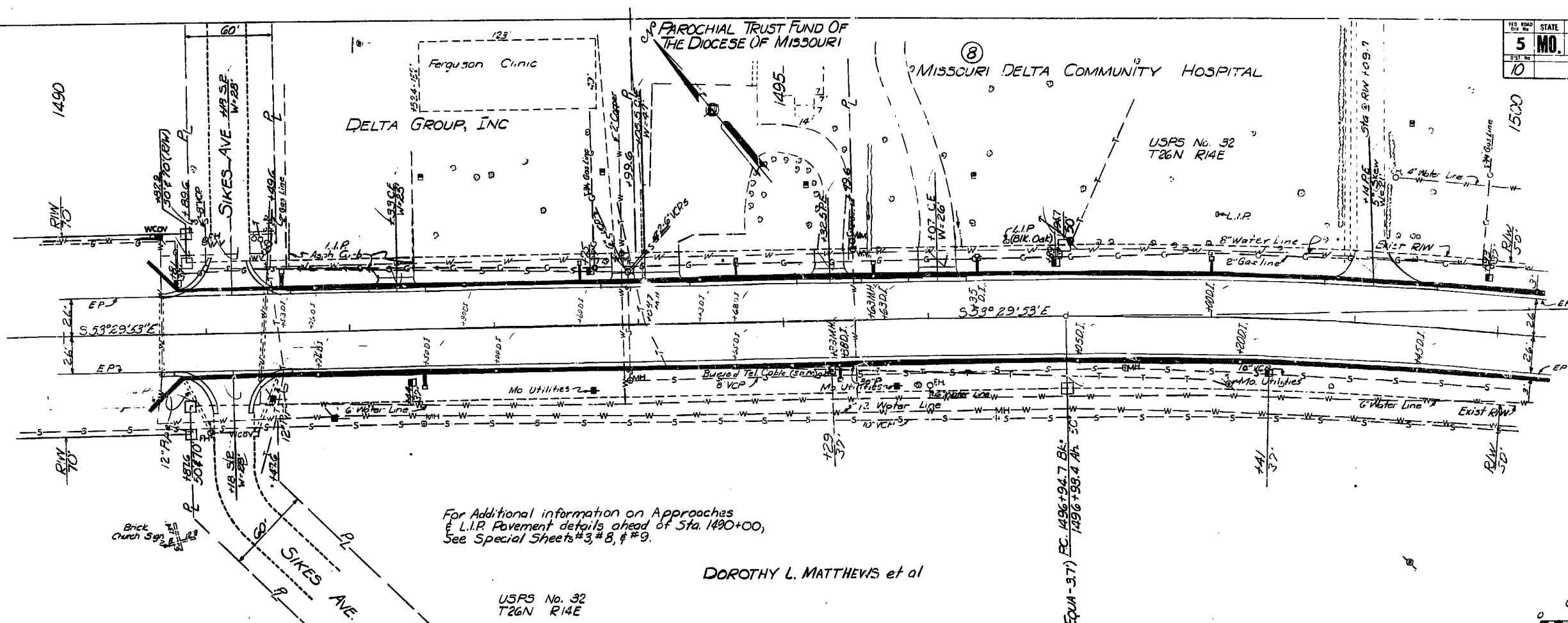
J.E. MOORE 11-68
KIM MEDDALE
DESIGN
7152-D
7152-E

405



T.B.M. Elev. 328.82
West Edge M.H. Rim 66' Rt. Sta. 1483+33

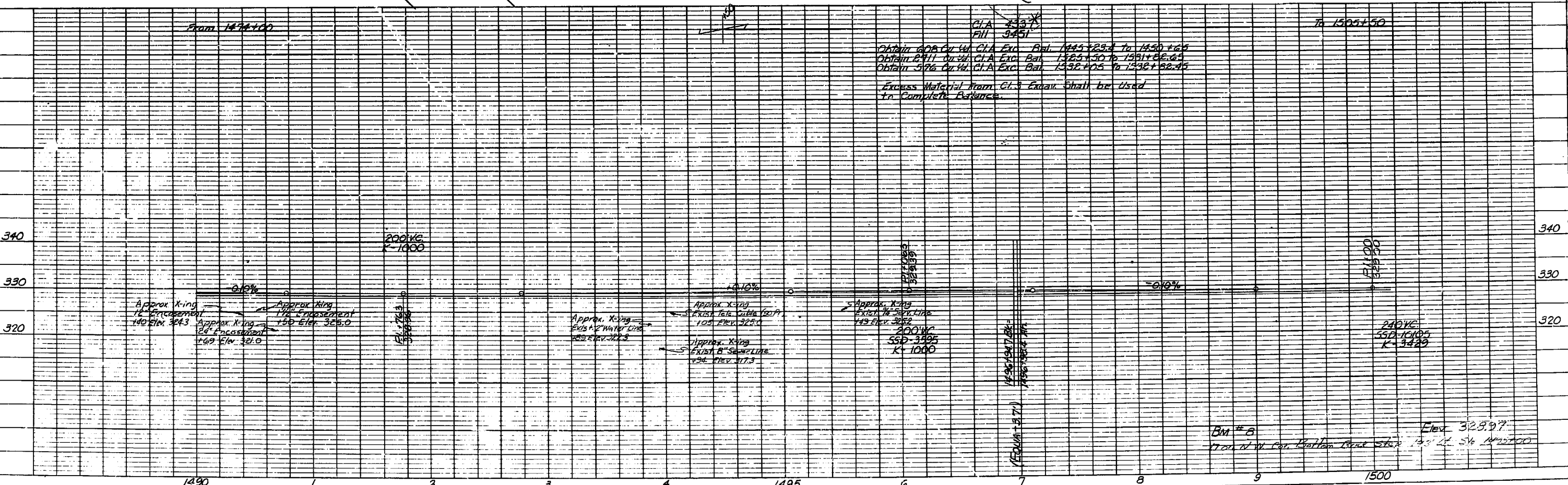
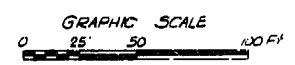
FINAL PLAN



For Additional information on Approaches & L.I.P. Pavement details ahead of Sta. 1490+00, See Special Sheets #3, #8, & #9.

DOROTHY L. MATTHEWS et al

USPS No. 32
T26N R14E



CLA 433.7
FIN 345.1
Obtain 608 Cu. Yd. CLA Exc. Bal. 1445+25.4 to 1450+60
Obtain 2411 Cu. Yd. CLA Exc. Bal. 1455+50 to 1491+86.64
Obtain 5776 Cu. Yd. CLA Exc. Bal. 1492+05 to 1498+82.45
Excess Material from CL. Excav. Shall be Used to Complete Balance.

B.M. # 8
Elev. 328.97
1700' N.W. Cor. Bottom Base Sta. 1491+86.64 S.W. 1/4 Sec. 1492+00

Sta. 1500+17.14 is 49.88 FT N43°28'36"E
 of NE Cor. Lot #6 Bk 2 Wakefield Add.
 -USPS #32, T26N, R14E (1 1/4" pipe)

⑩ FIRST CHRISTIAN CHURCH
 OF SIKESTON, MISSOURI
 Temp. Esmt. (Const.) - 0.03 Ac.

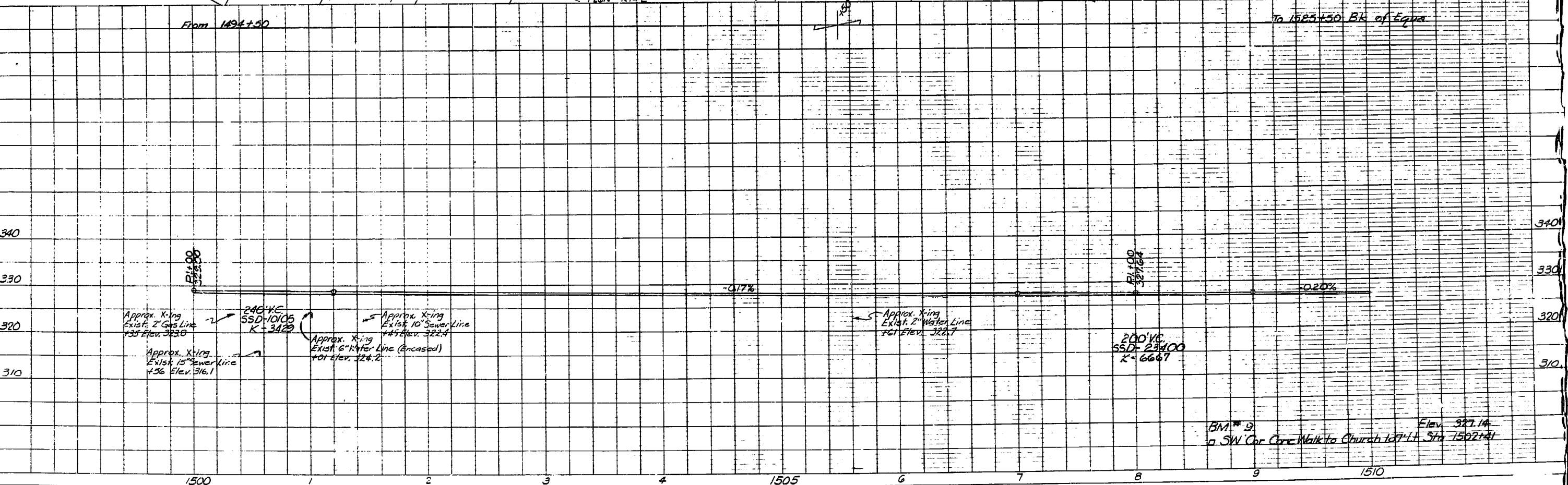
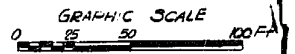
SIKESTON PROFESSIONAL
 BUILDING CO., INC.

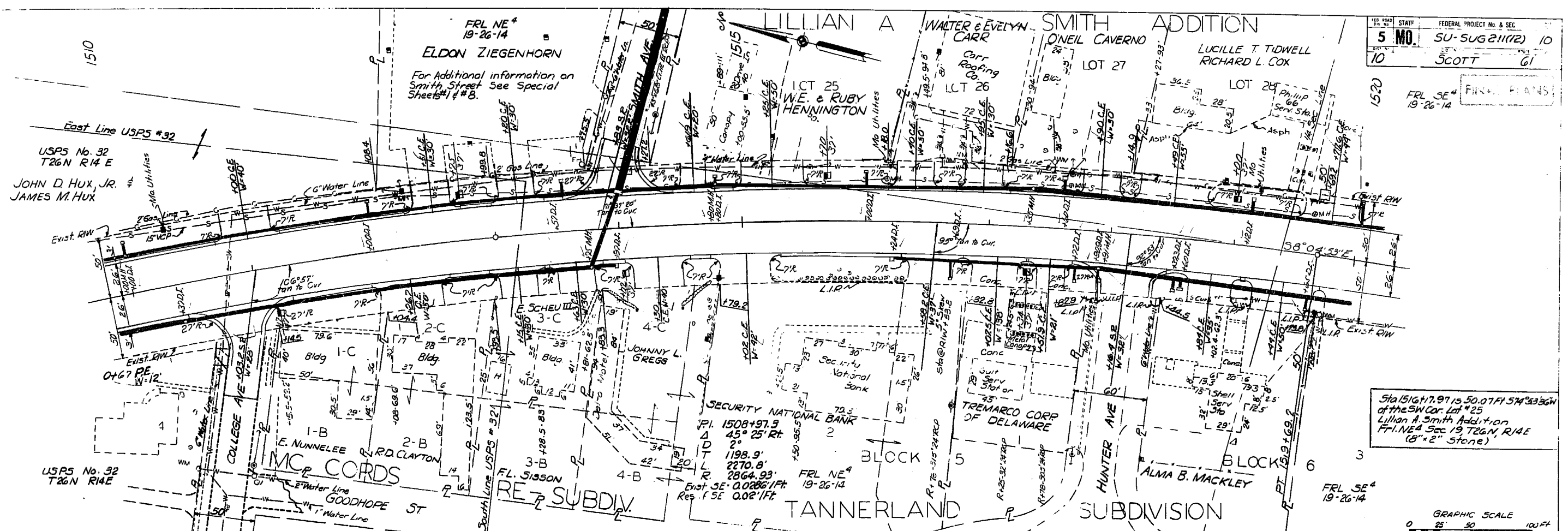
⑪ SECURITY FEDERAL SAVINGS
 & LOAN ASSOCIATION
 Perm. Esmt. (Dr. & Constr.) - 0.01 Ac.
 Temp. Esmt. (Const.) - 0.01 Ac.

JOHN D. HUX, JR. &
 JAMES M. HUX

Sta. 1509+51.35 is 50.05 FT
 N61°33'59"E of NE Cor. Lot #4 Bk 1
 East Acres Sub Division
 USPS #32, T26N, R14E
 (2" Iron Pin)

PARCEL NO.	OWNERSHIP	TEMP. ESMT. (CONST.)
12	NEW MADRID CO. FARMERS MUTUAL FIRE INS. CO.	0.02 AC.
13	S. SINGLETON & G. BERRY	0.01 AC.

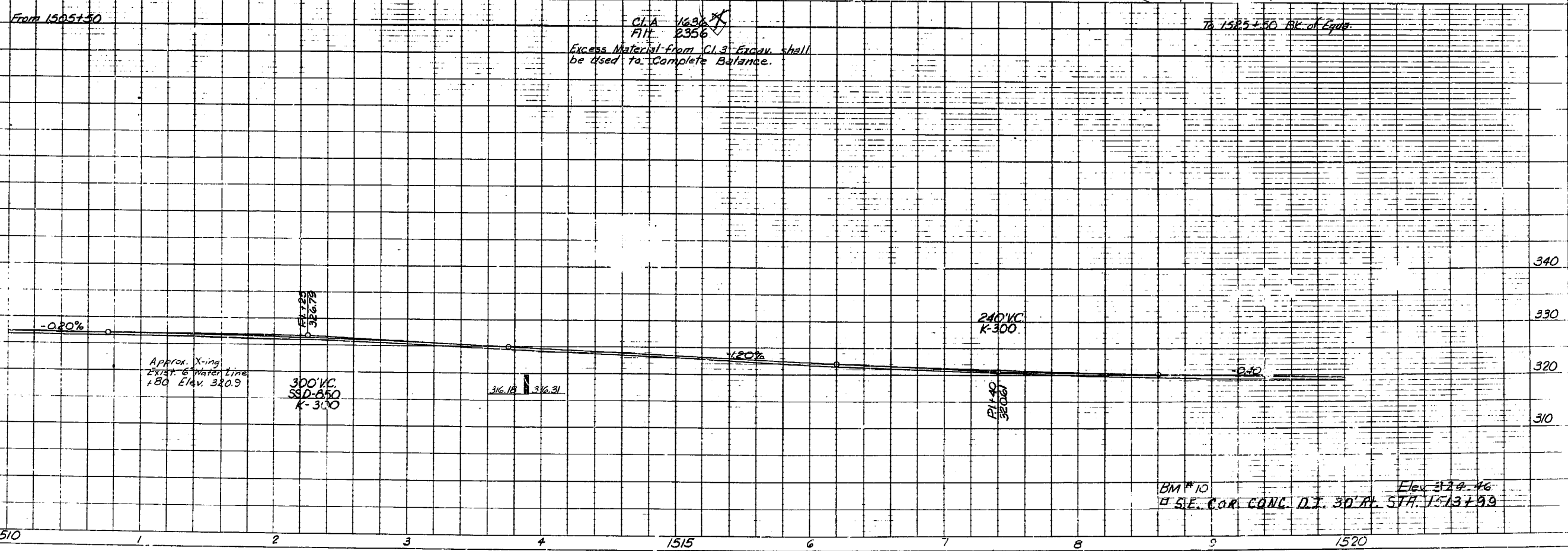
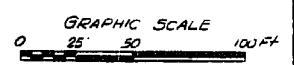




FEDERAL PROJECT No. & SEC
 5 MO. SU-5UG211(12) 10
 10 SCOTT 61

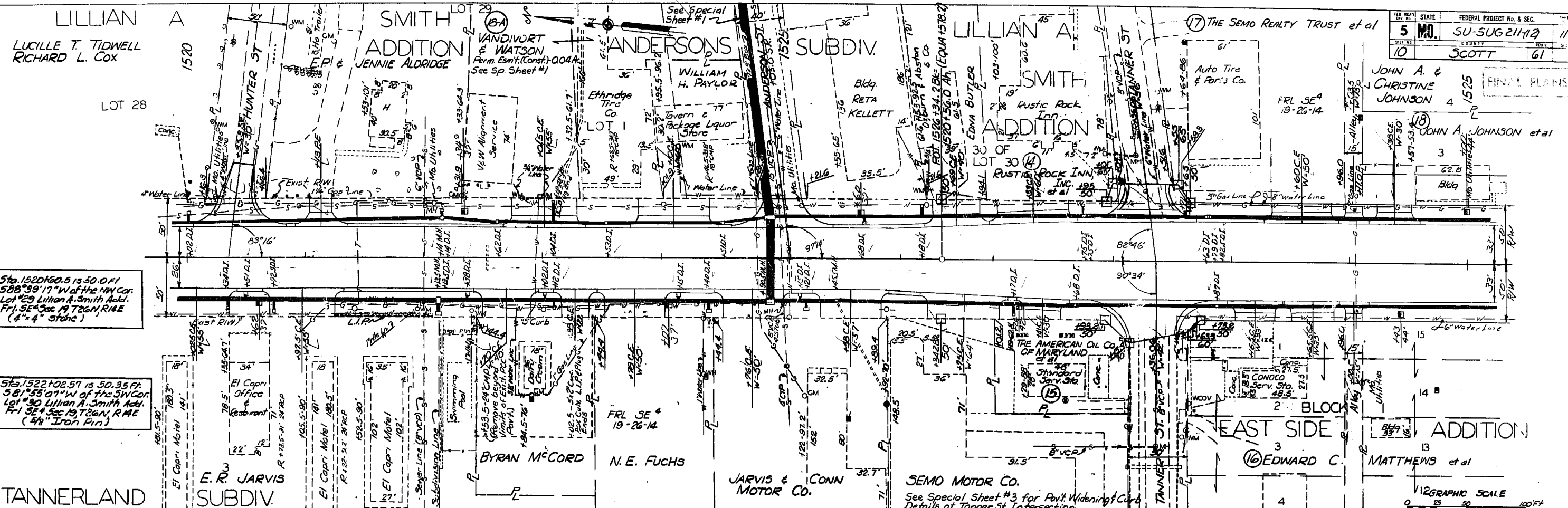
FRL SE 4
 19-26-14
 FIN. PLANS

Sta 1516+7.97 is 50.07' from SW cor. of Lot #25
 Lillian A. Smith Addition
 FRL NE 4 Sec 19 T26N R14E
 (8" x 2" Stone)

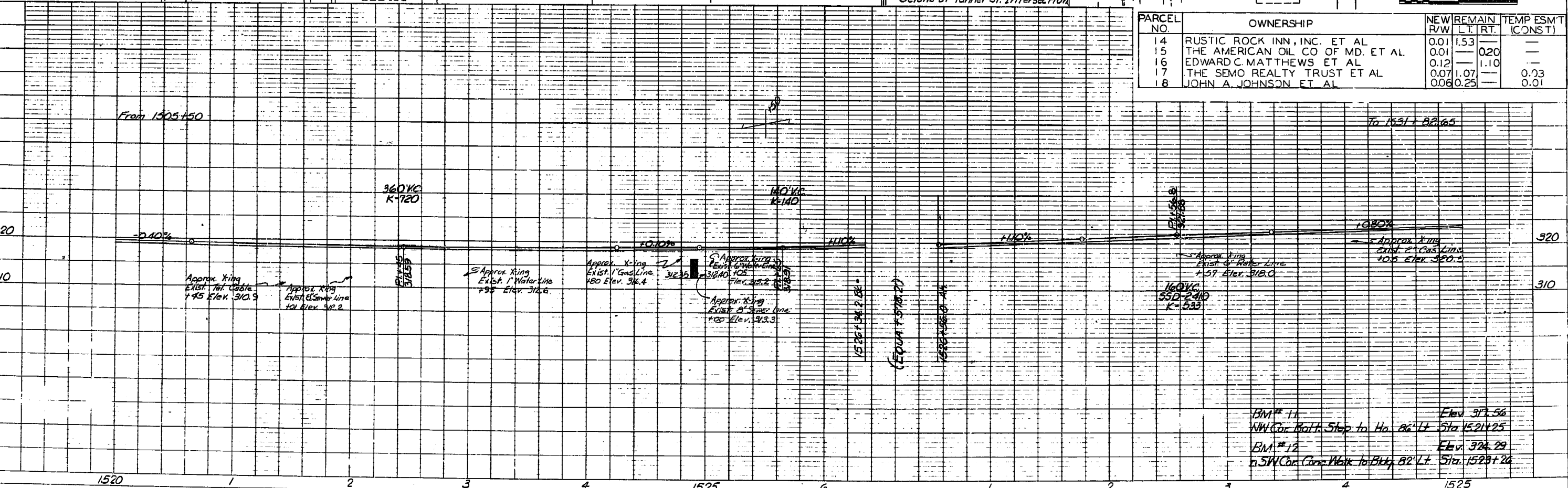


CIA 1636
 FH 2356
 Excess Material from C1.3 Excav. shall
 be used to Complete Balance.

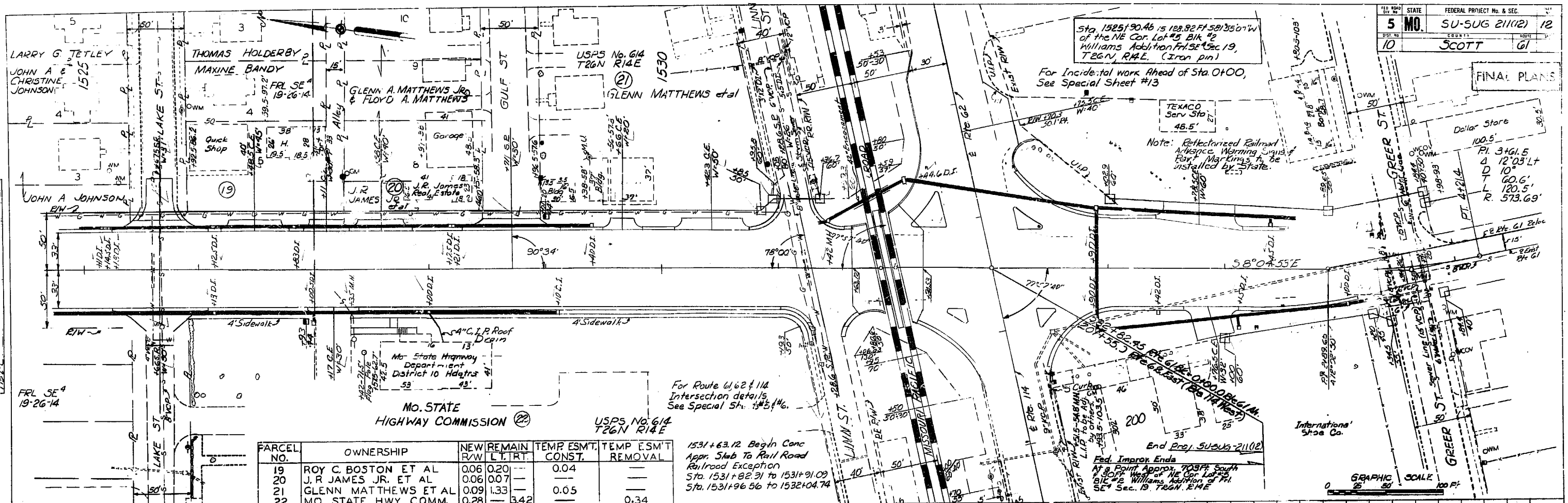
BM #10 Elev 324.46
 SE. COR. CONC. D.I. 30' PL. STA. 1513+99



PARCEL NO.	OWNERSHIP	NEW R/W	REMAIN L.T. RT.	TEMP. ESMT (CONST)
14	RUSTIC ROCK INN, INC. ET AL	0.01	1.53	—
15	THE AMERICAN OIL CO OF MD. ET AL	0.01	0.20	—
16	EDWARD C. MATTHEWS ET AL	0.12	1.10	—
17	THE SEMO REALTY TRUST ET AL	0.07	1.07	0.03
18	JOHN A. JOHNSON ET AL	0.06	0.25	0.01



BM # 11 Elev 317.56
 NW Cor. Math. Step to Ho. 86' LT Sta 1521+25
 BM # 12 Elev 324.29
 n SW Cor. Corn. Walk to Bldg. 82' LT Sta 1523+24

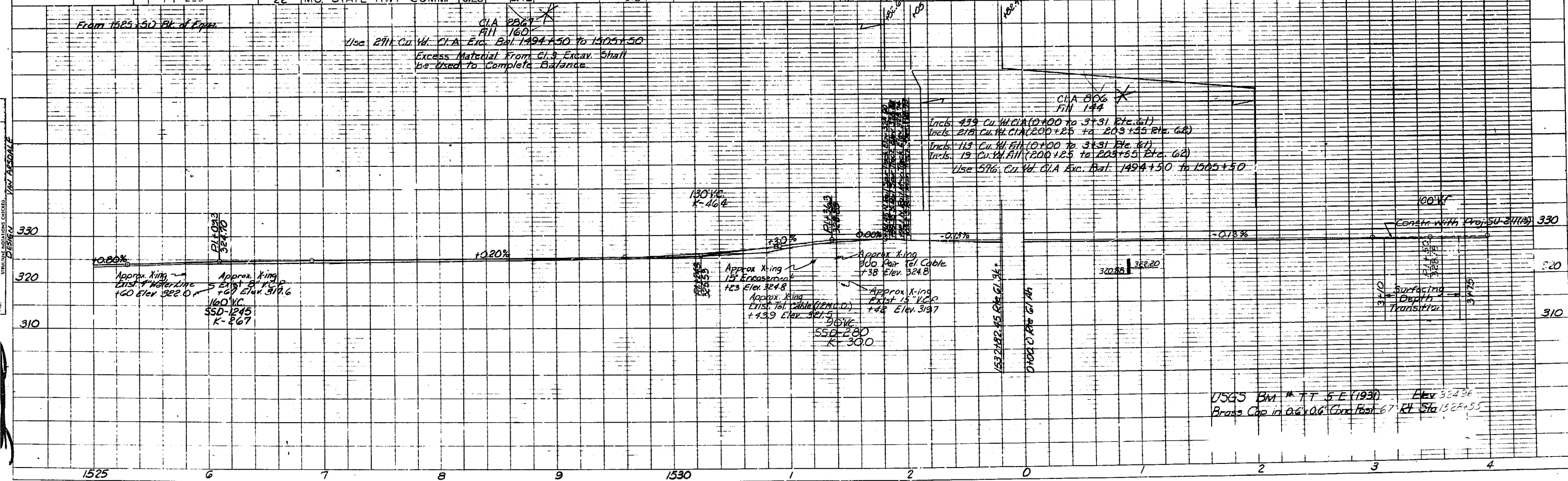


For Route 6162 & 114 Intersection details See Special Sh. #15 & #16.

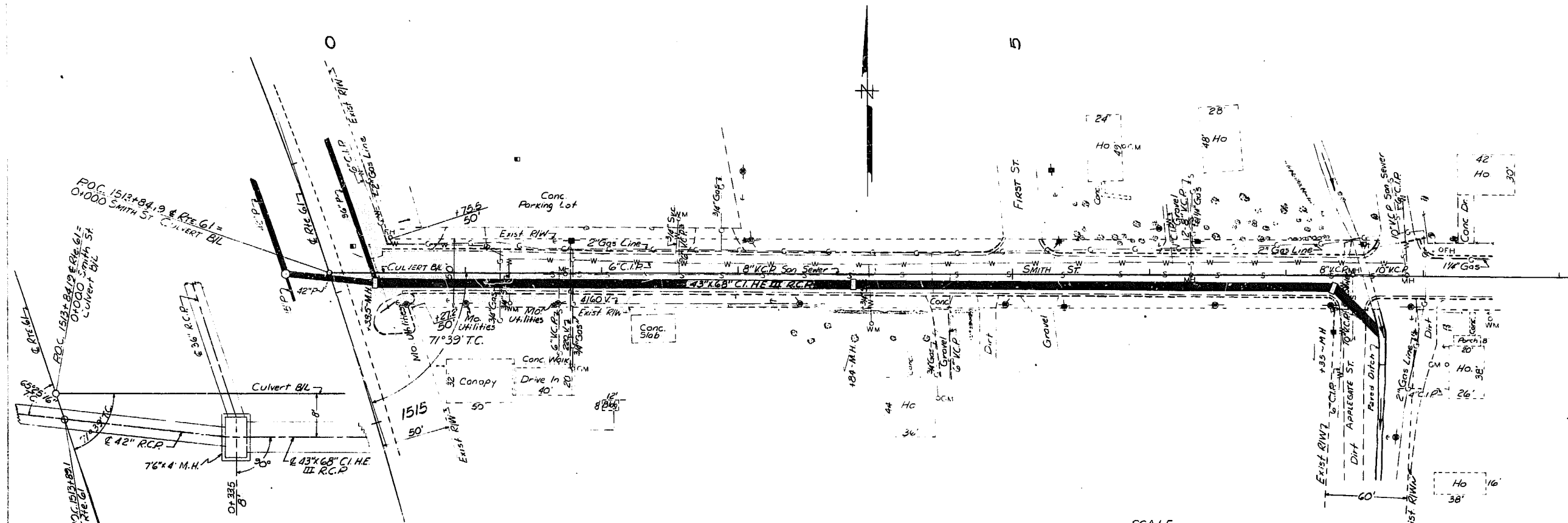
Sta. 1525+90.46 to 1528+82.71 5813507'W of the NE Cor. Lot #5 Bk #2 Williams Addition Fr. SE 1/4 Sec. 19, T26N, R14E. (Iron pin)
 For incidental work Ahead of Sta. 0+00, See Special Sheet #13

Note: Retrofitted Railroad Advance Warning Signs & Post Markings to be installed by State.

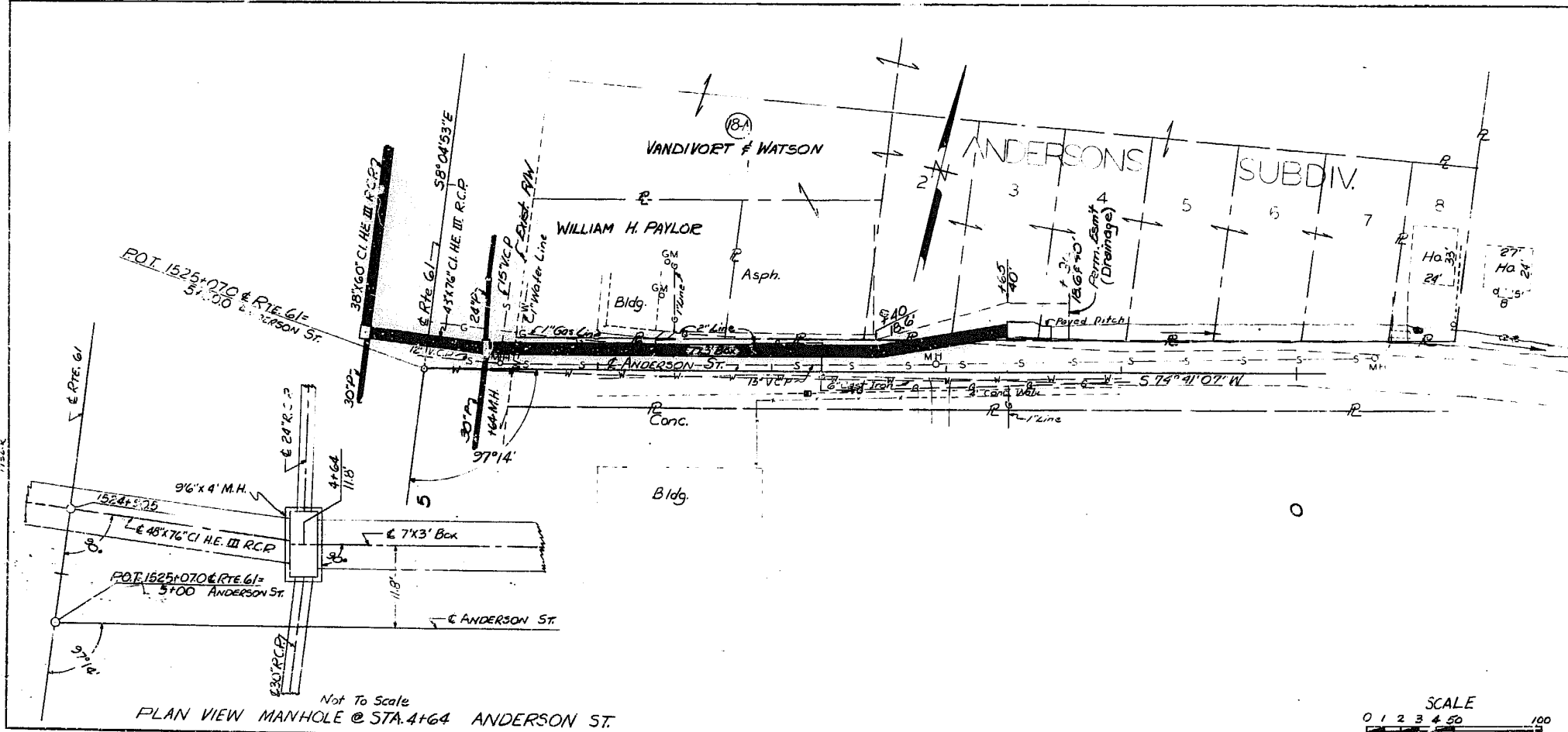
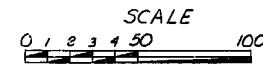
GRAPHIC SCALE 1" = 100'



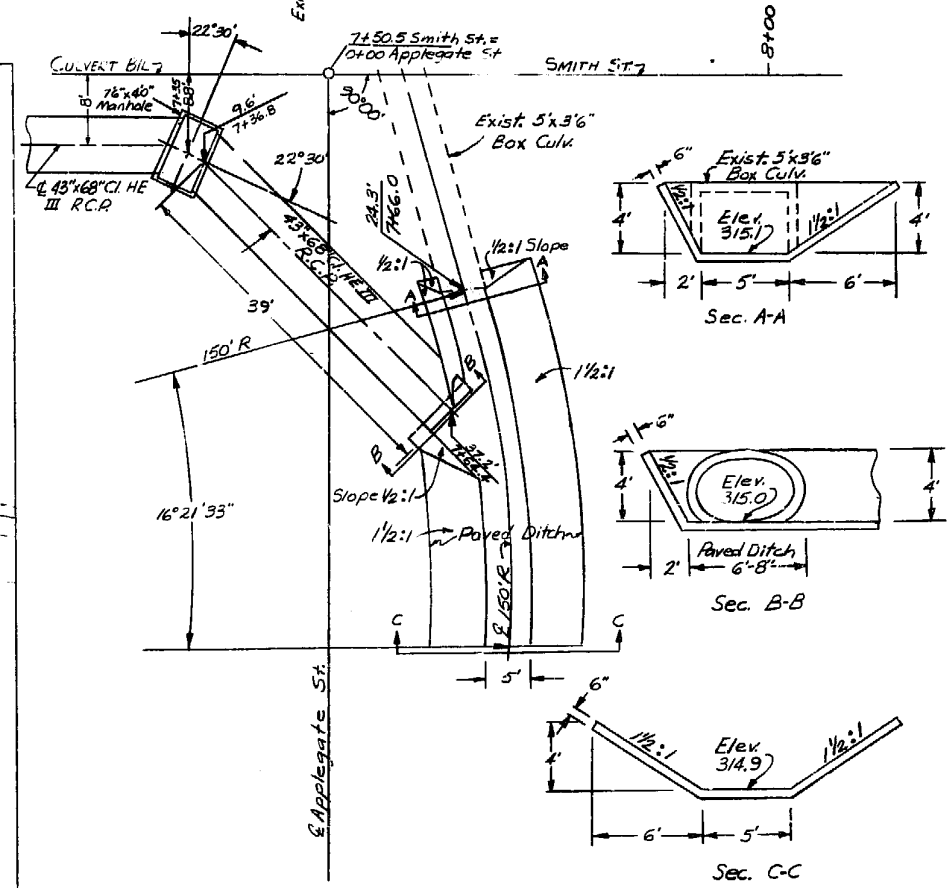
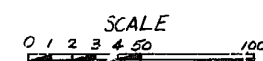
FINAL PLANS



Not To Scale
PLAN VIEW MANHOLE @ STA. 0+335 SMITH ST.

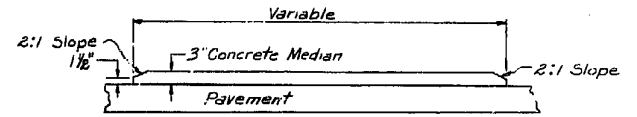
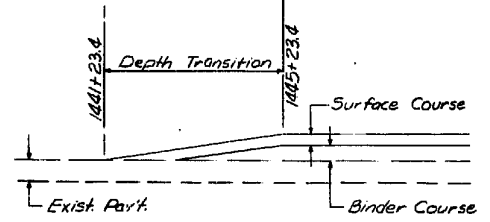
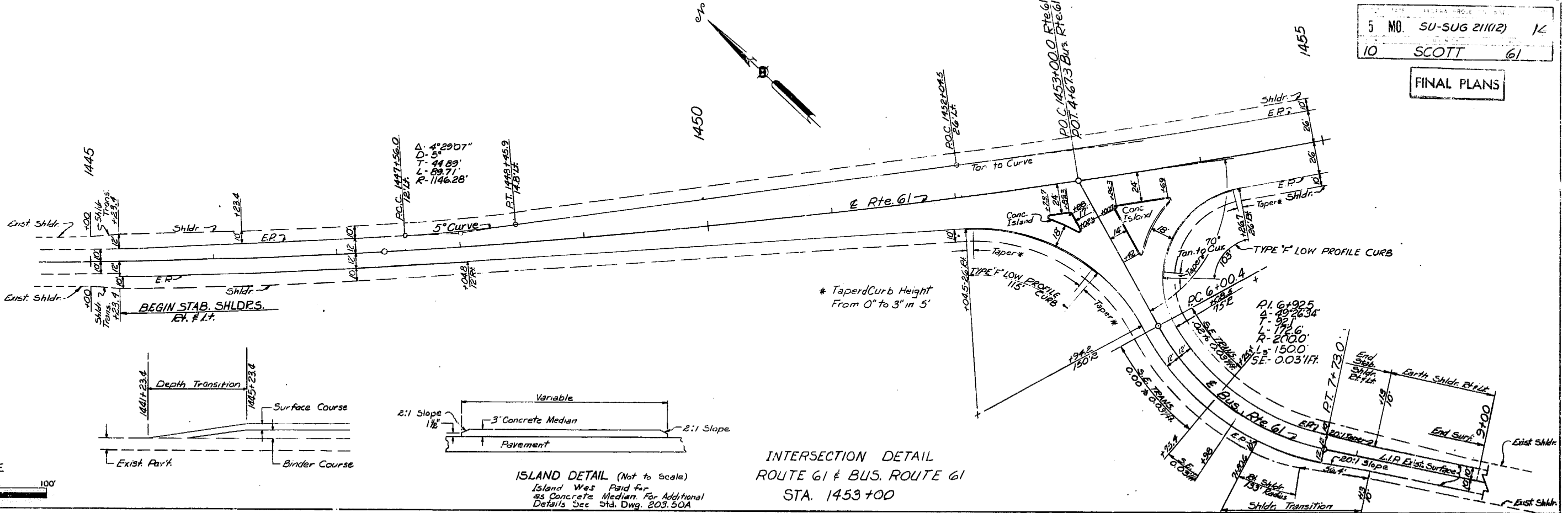


Not To Scale
PLAN VIEW MANHOLE @ STA. 4+64 ANDERSON ST.

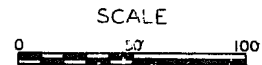
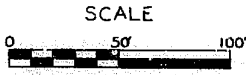


Paved Ditch Along Applegate Street
Dwg. Not To Scale. Follow Dimensions.

FINAL PLANS

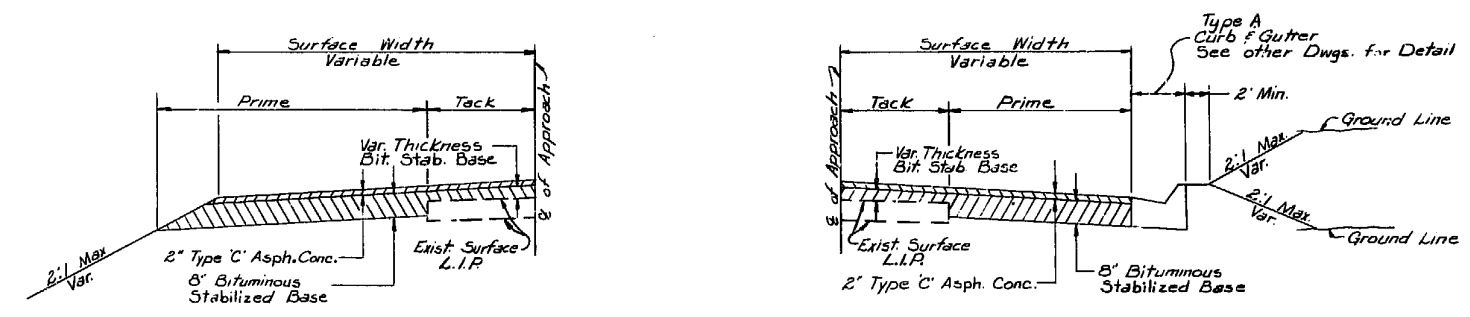
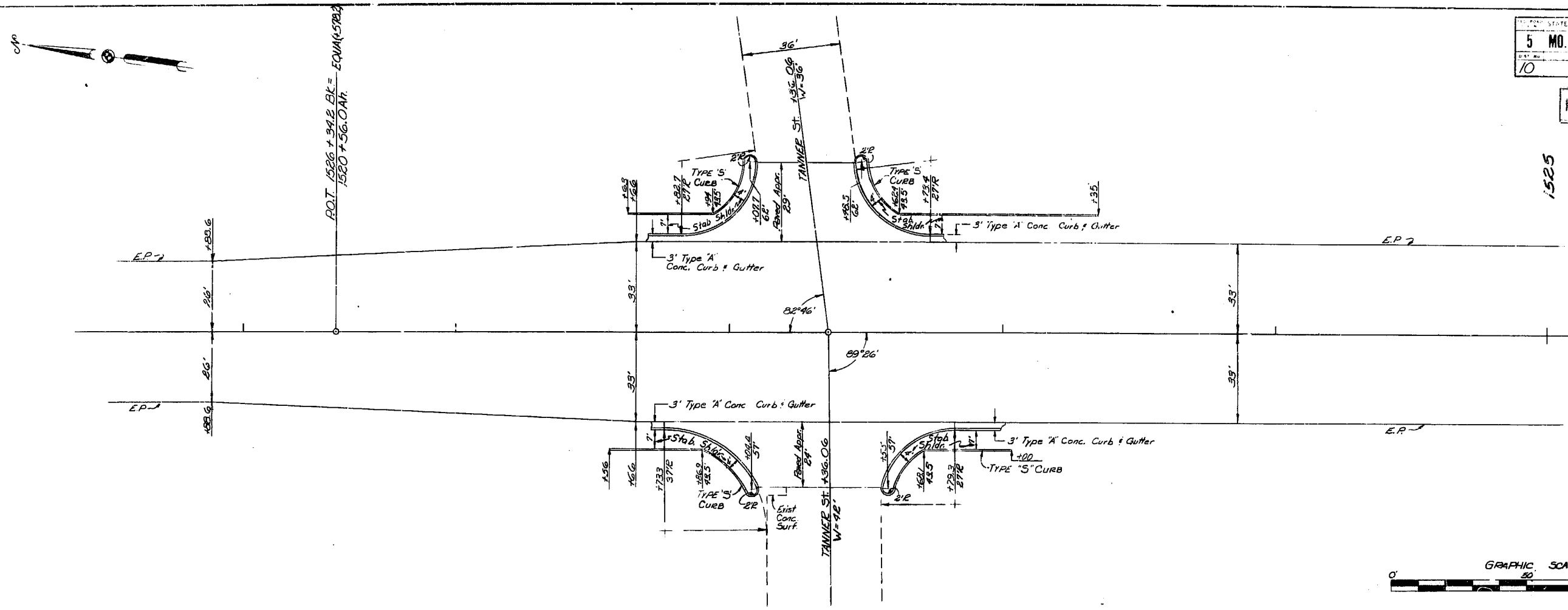


INTERSECTION DETAIL
 ROUTE 61 & BUS. ROUTE 61
 STA. 1453+00



FINAL PLANS

1525



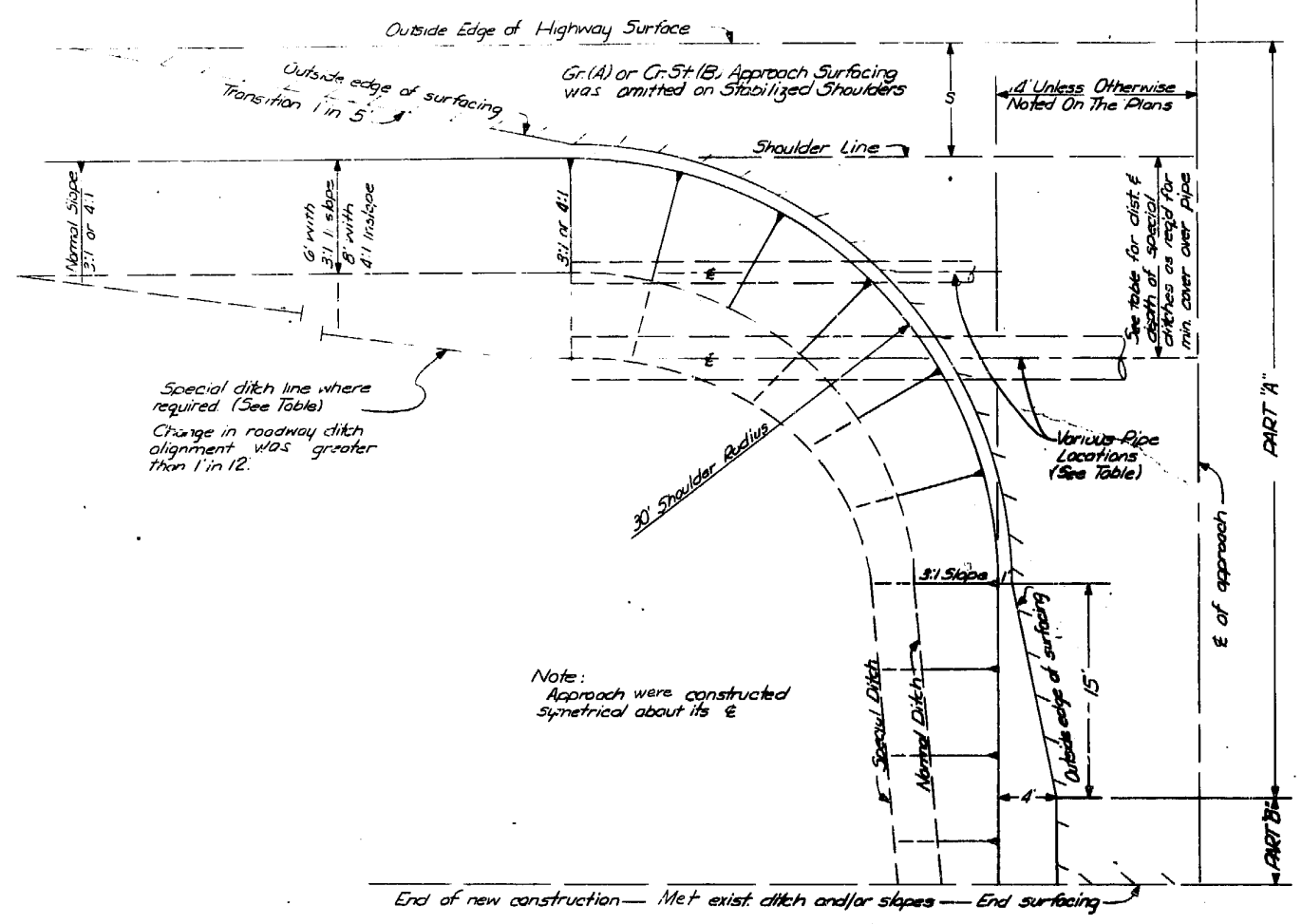
HALF SECTION
 NO CURB & GUTTER

HALF SECTION
 CURB & GUTTER

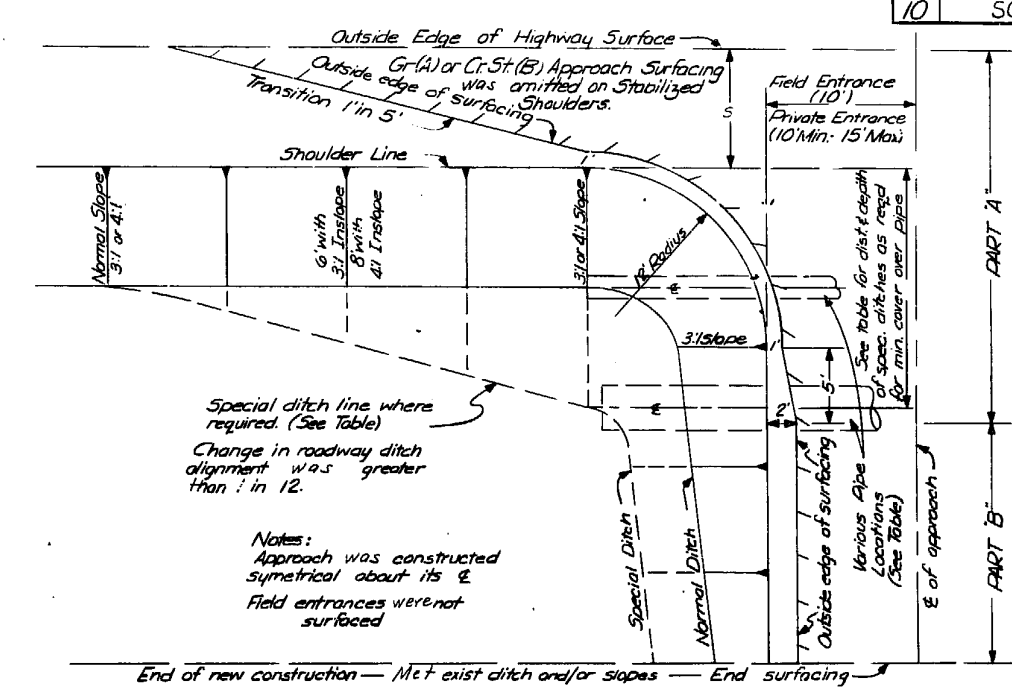
APPROACH RESURFACING & WIDENING DETAIL
 (Beyond Limits of Paved Approach
 or Edge of Widened Surface Route 61)

STA. 1490 to STA. 1532

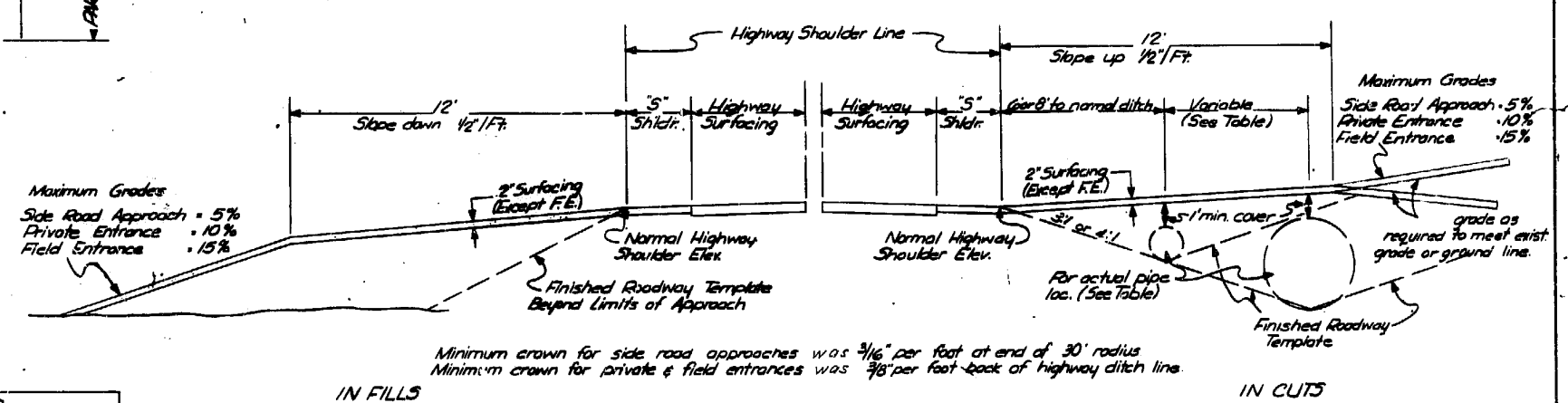
FINAL PLANS



SIDE ROAD APPROACH
HALF PLAN VIEW



PRIVATE ENTRANCES AND FIELD ENTRANCES
HALF PLAN VIEW



SECTIONS SHOWING PROFILE OF APPROACHES

DIAMETER OF PIPE	4:1 HIGHWAY INSLOPE		3:1 HIGHWAY INSLOPE		LENGTH OF PIPE REQD FOR SIDE ROAD APP. (28' WIDTH)		LENGTH OF PIPE REQD FOR PRIVATE ROAD APP. (20' WIDTH)	
	MIN DEPTH OF DITCH	DIST. FROM SHOULDER TO E. PIPE	MIN DEPTH OF DITCH	DIST. FROM SHOULDER TO E. PIPE	28' WIDTH	20' WIDTH	28' WIDTH	20' WIDTH
12"	2.0'	8.0'	2.0'	6.0'	88'	48'		
15"	2.0'	8.0'	2.1'	6.3'	88'	48'		
18"	2.3'	9.2'	2.4'	7.2'	88'	48'		
24"	2.7'	10.8'	2.8'	8.4'	88'	52'		
30"	3.1'	12.4'	3.3'	9.9'	88'	54'		
36"	3.6'	14.4'	3.7'	11.1'	88'	58'		

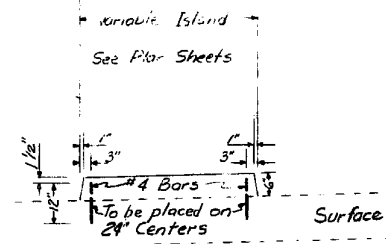
TYPE OF APPROACH	SHLDR WIDTH 5'	PART 'A'		PART 'B'	
		C.Y.	TON	C.Y.	TON
SIDE ROAD (28' Width)	4'	11.6	16.2	0.123	0.172
	6'	18.1	26.3	0.223	0.372
	8'	25.0	36.0	0.323	0.572
	10'	32.0	45.8	0.423	0.772
PRIVATE ENTRANCE (20' Width)	4'	3.5	4.9	0.039	0.059
	6'	4.5	6.3	0.059	0.139
	8'	5.8	8.1	0.079	0.239
	10'	7.4	10.4	0.109	0.339

Example
When 5' = 6' and S.R. Approach ends 35' from highway shldr. lns.
Total Surf. = 11.6 + (23/10) = 14.9 C.Y. or 18.3 + (17.2/10) = 20.0 Tons.
*Note: Use nearest whole unit for each approach.

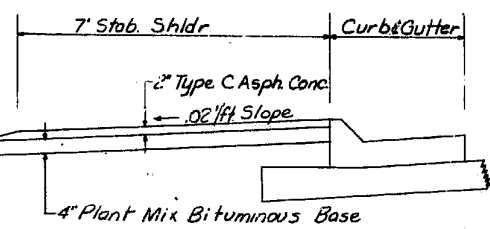
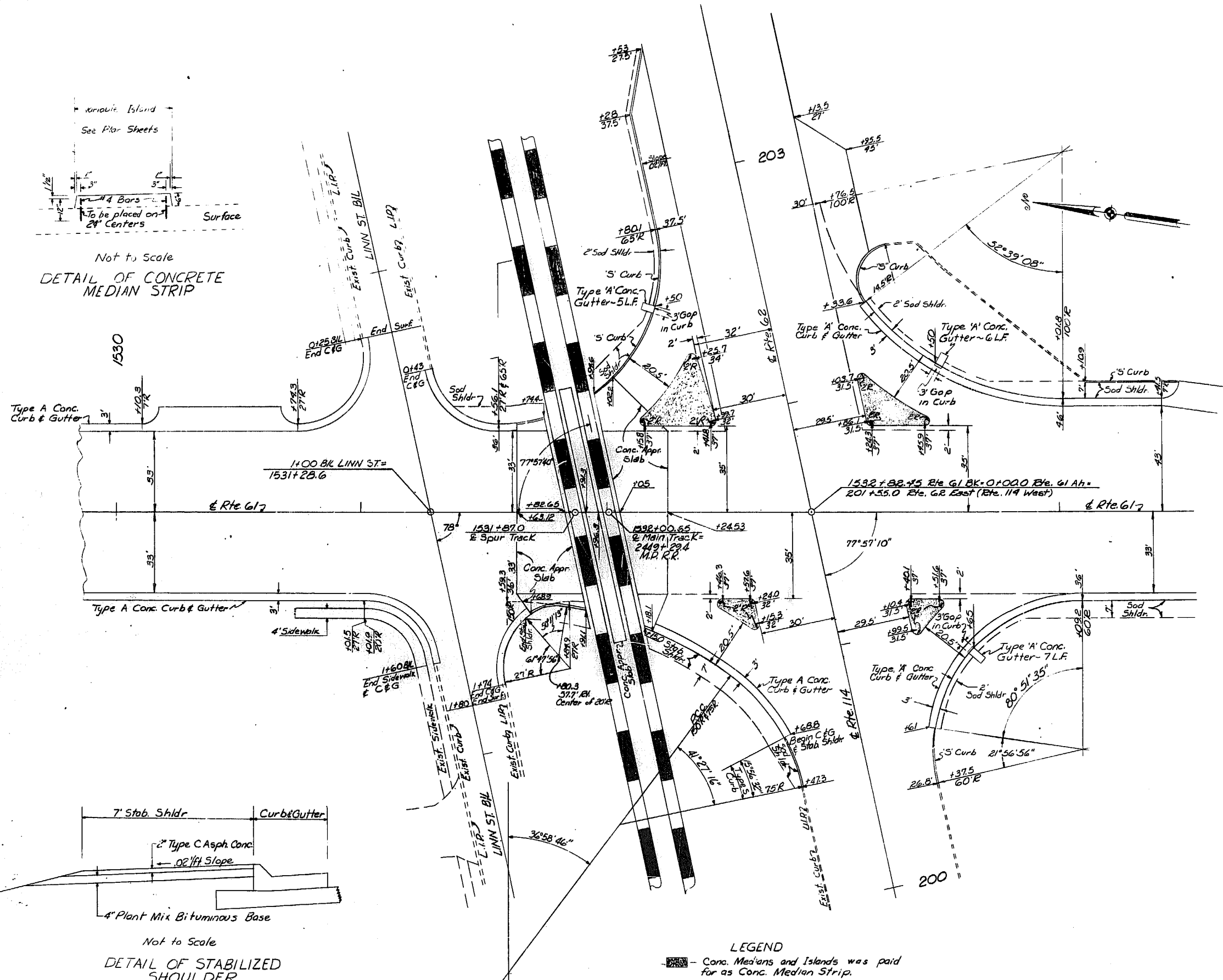
Shoulder radius and grade control was as indicated unless otherwise shown on plans.
For surfacing details of "paved approaches" see other drawings.
Locations of pipe when approach was in fill was shown on plans.
Details on this drawing are for right angle approaches to highway. See plans for skewed approaches.

SIDE ROADS
PRIVATE ENTRANCES & FIELD ENTRANCES

FINAL PLANS

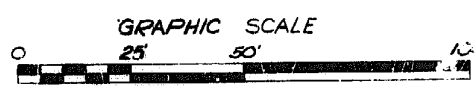


Not to Scale
 DETAIL OF CONCRETE
 MEDIAN STRIP



Not to Scale
 DETAIL OF STABILIZED
 SHOULDER
 NW QUADRANT OF INTERSECTION

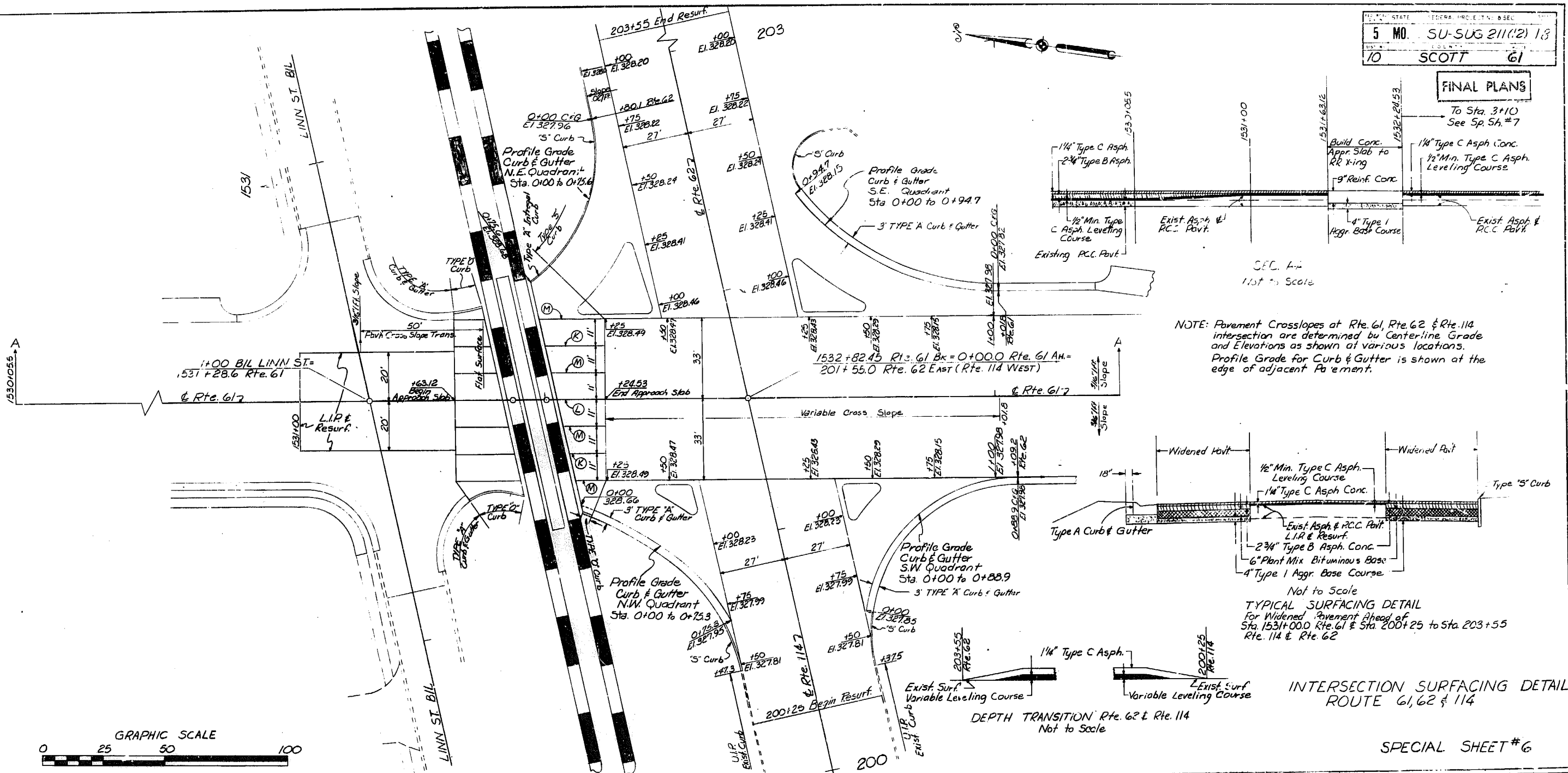
LEGEND
 [Hatched Box] - Conc. Medians and Islands was paid for as Conc. Median Strip.



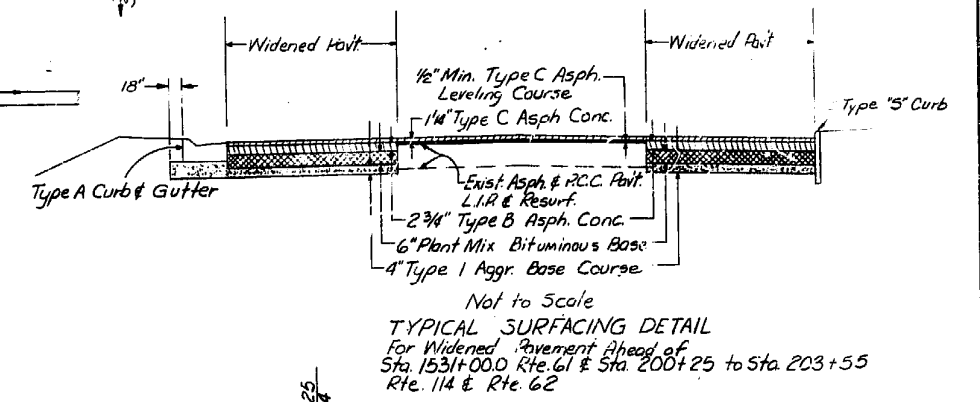
INTERSECTION DETAIL
 ROUTE 61, 62 & 114

SPECIAL SHEET No. 5

FINAL PLANS



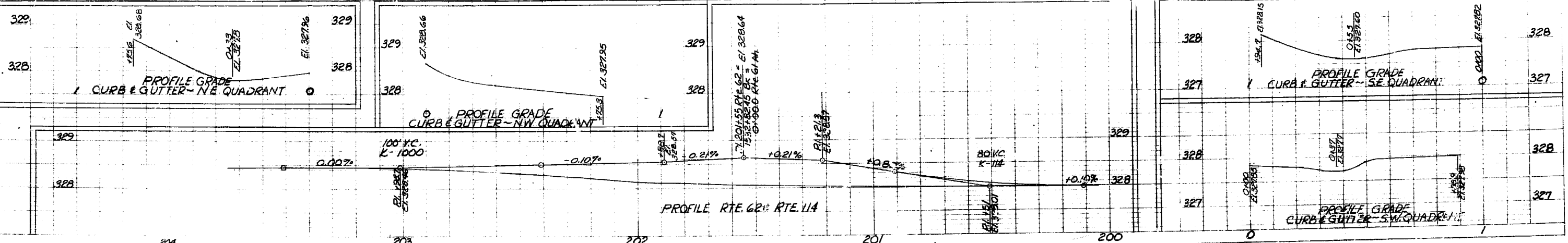
NOTE: Pavement Crossslopes at Rte. 61, Rte. 62 & Rte. 114 intersection are determined by Center-line Grade and Elevations as shown at various locations. Profile Grade for Curb & Gutter is shown at the edge of adjacent Pavement.



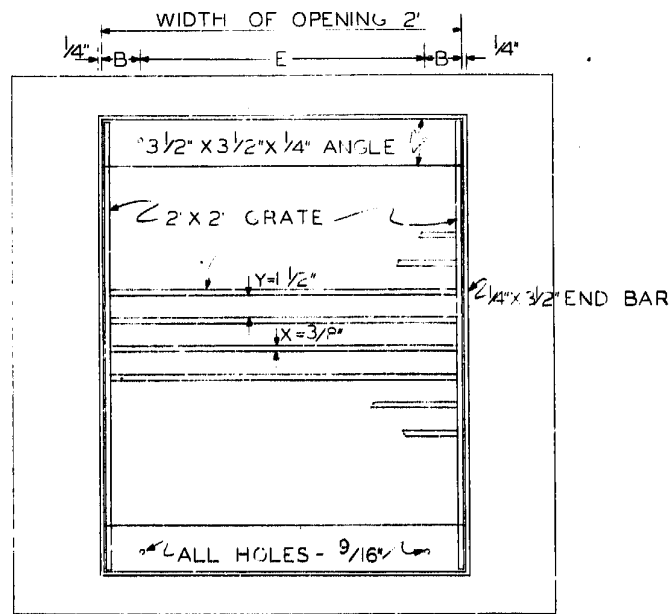
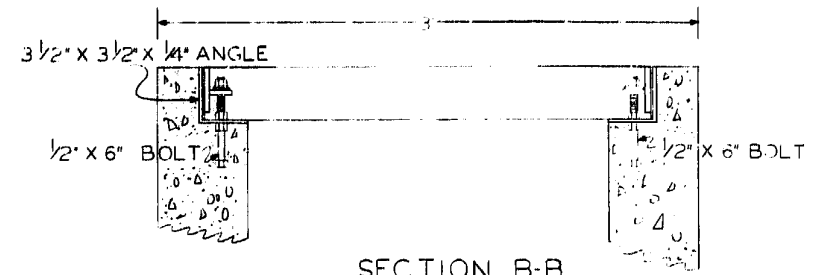
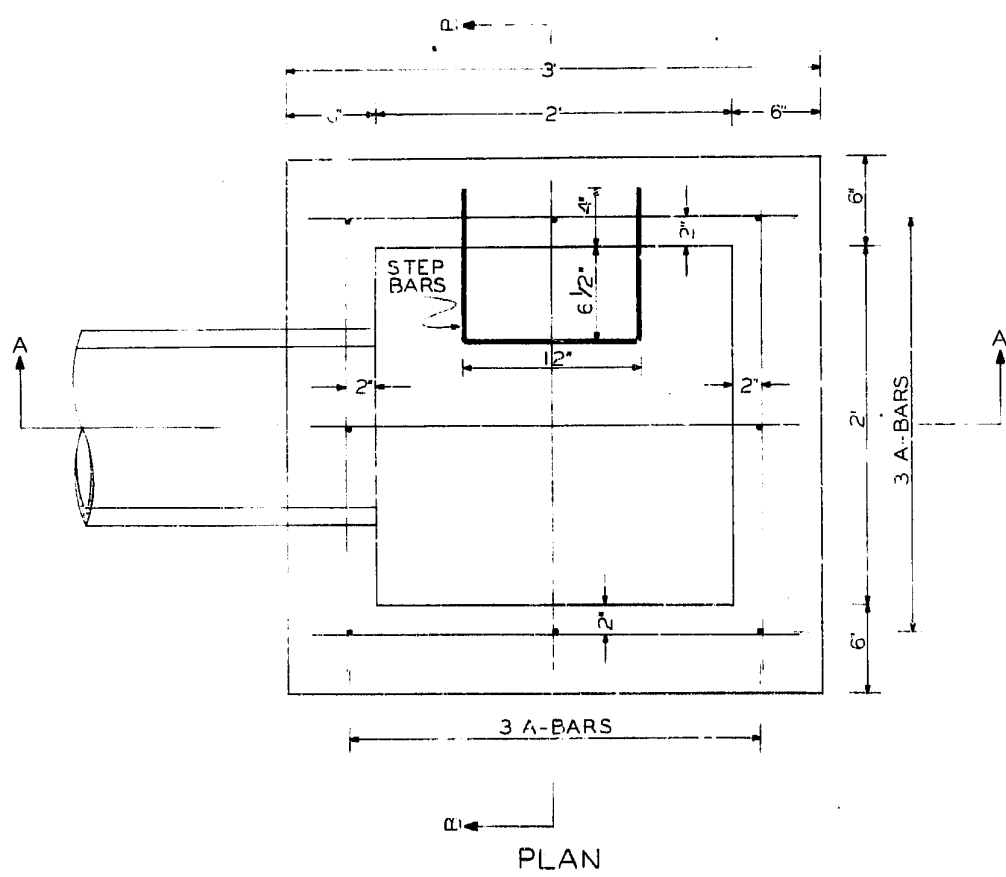
Not to Scale
 TYPICAL SURFACING DETAIL
 For Widened Pavement Ahead of
 Sta. 1531+00.0 Rte. 61 & Sta. 200+25 to Sta. 203+55
 Rte. 114 & Rte. 62

INTERSECTION SURFACING DETAIL
 ROUTE 61, 62 & 114

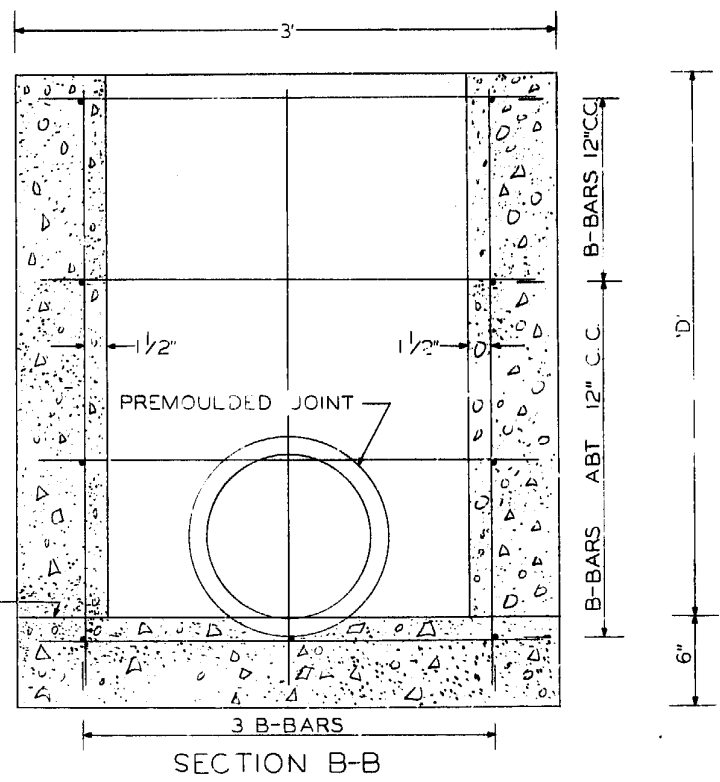
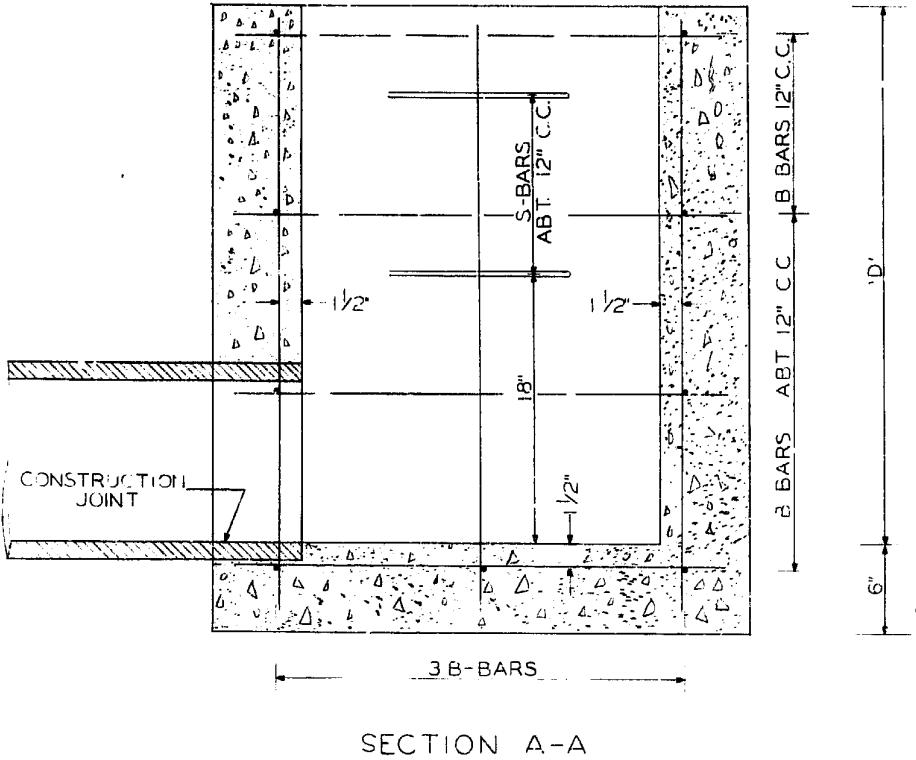
SPECIAL SHEET #6



FINAL PLANS



BAR BILLS		QUANTITIES					
2 X 2' DROP INLET TYPE K							
'D'	#4A VERTICAL WALLS	#4B FLOOR & SIDEWALLS	#6 S-STEPS	CONCRETE C.Y.	STEEL LBS.	NOTE: QUANTITIES INCLUDE CONC. FOR INVERT.	
	NO.	LGTH.	NO.	LGTH.		DEDUCT FROM CONCRETE FOR PIPE OPENING	
2'	8	2'3"	14	2'9"	0.63	38	
2'3"	8	2'6"	14	2'9"	0.67	39	
2'6"	8	2'9"	18	2'9"	0.72	48	
3'	8	3'3"	18	2'9"	0.81	50	
3'6"	8	3'9"	22	2'9"	0.90	60	
4'	8	4'3"	22	2'9"	1.00	71	
4'6"	8	4'9"	26	2'9"	1.09	81	
5'	8	5'3"	26	2'9"	1.18	88	



GENERAL NOTES:
 THE COST OF CUTTING PIPES WERE COVERED BY THE UNIT PRICE
 BID FOR THE PIPE.

REINFORCING BARS WERE CUT AND/OR BENT AT PIPE OPENINGS,
 AND THE COST OF SAME WERE COVERED BY THE UNIT PRICE BID
 FOR THE REINFORCING STEEL.

THE CONCRETE FOR INVERTS WERE PLACED AFTER COMPLETION OF
 THE DROP INLET BOX.

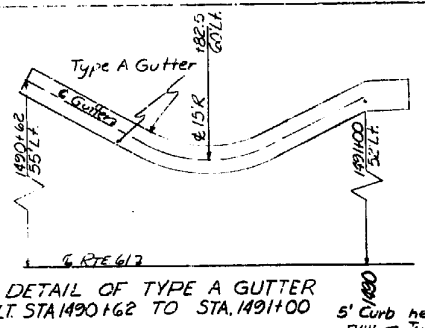
DROP INLET
 TYPE K
 SPECIAL SHEET NO. 7

NOTE: For Approach Surfacing and Widening Detail See Special Sheet #3

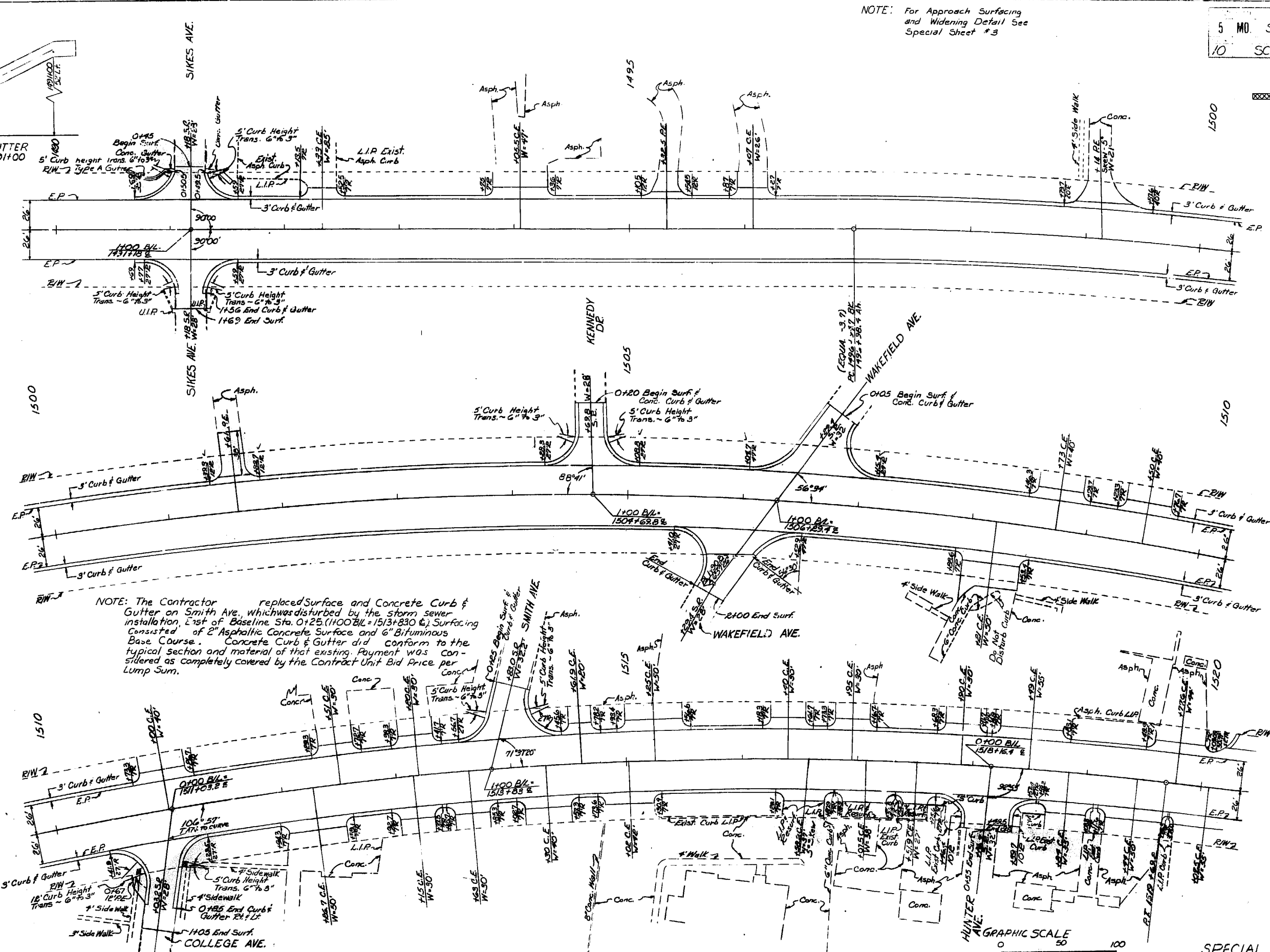
5 MO. SU-SUG 211(12) 20
10 SCOTT 61

Legend
 XXXXX Limit of Existing Sidewalk Removal

FINAL PLANS



DETAIL OF TYPE A GUTTER
 LT STA 1490+62 TO STA. 1491+00



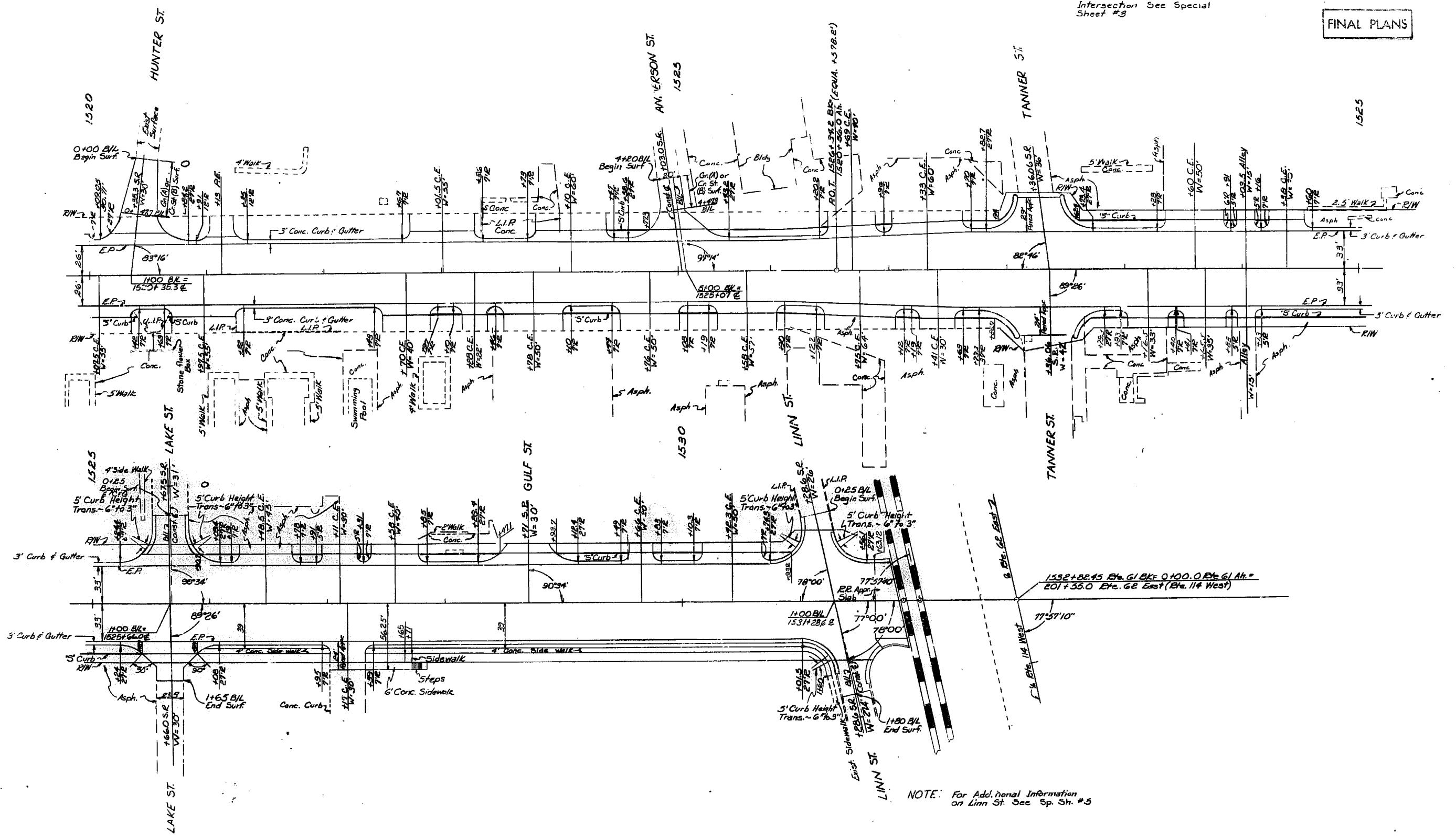
NOTE: The Contractor replaced Surface and Concrete Curb & Gutter on Smith Ave, which was disturbed by the storm sewer installation. East of Baseline Sta. 0+25 (100 B/L = 1513+830 E.) Surfacing consisted of 2" Asphaltic Concrete Surface and 6" Bituminous Base Course. Concrete Curb & Gutter did conform to the typical section and material of that existing. Payment was considered as completely covered by the Contract Unit Bid Price per Lump Sum.



SPECIAL SHEET #8

FINAL PLANS

NOTE: For Details of Tanner St Intersection See Special Sheet #3



NOTE: For Additional Information on Linn St. See Sp. Sh. #5

NOTE: For Approach Surfacing and Widening Detail See Special Sheet #3
 SPECIAL SHEET #9

FINAL PLANS

GENERAL NOTES:

Clearance to reinforcing steel was 1/2" unless otherwise shown.

Reinforcing bars that were bonded in undisturbed old concrete were cleanly stripped, straightened and extended into the new concrete a minimum of 18 inches.

All connections to present structures were patched to match original work.

The work and materials required for construction of the steps were not measured for payment, but considered a lump sum unit. This included the removal of the existing steps, blocking of openings, and incidental work required for the construction of the steps and railing. Section 608.2 and Section 608.3 of the Standard Specifications were in force for the work.

RAILING INSTALLATION:

Railings were as manufactured by Napco Inc, Valencia, Pa.

All material were anodized prime aluminum extruded from 6063 T6 alloy.

All fasteners were 400 series stainless.

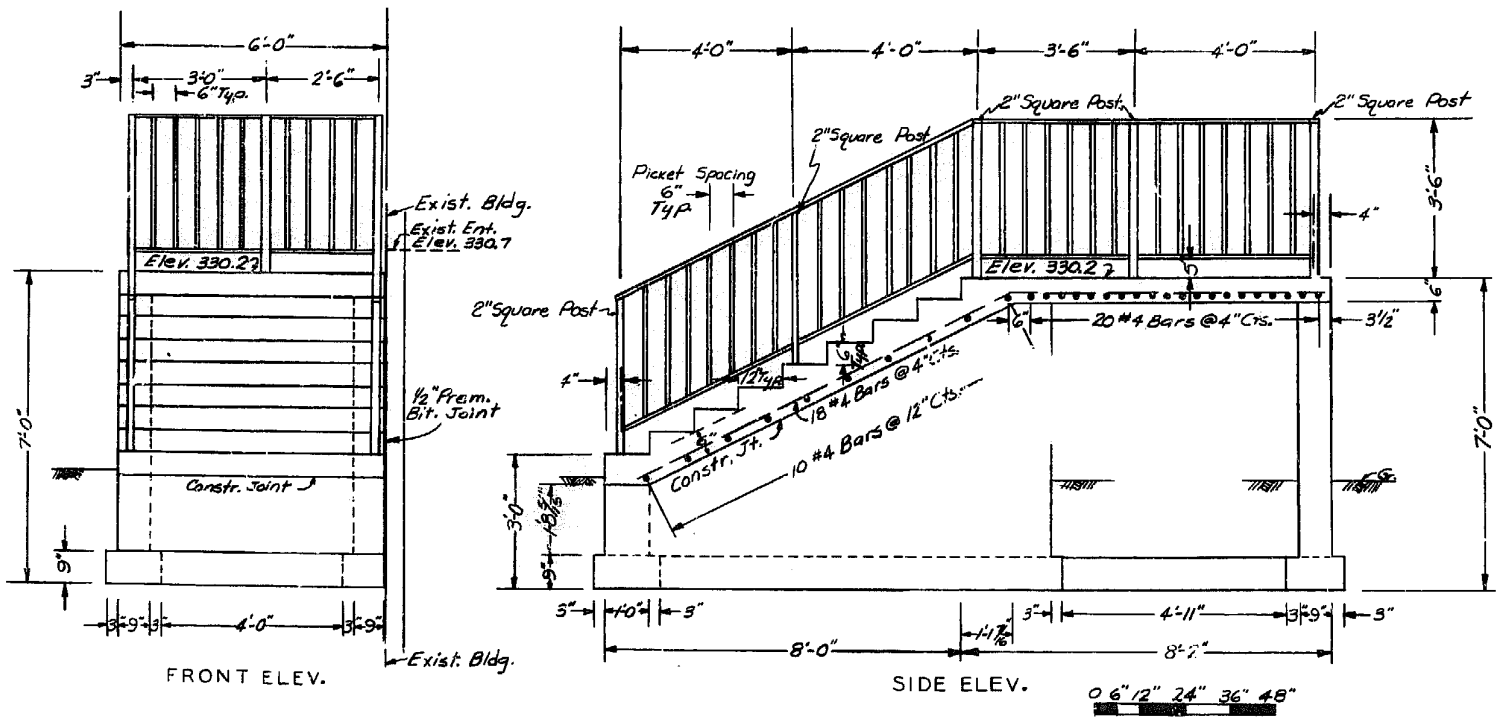
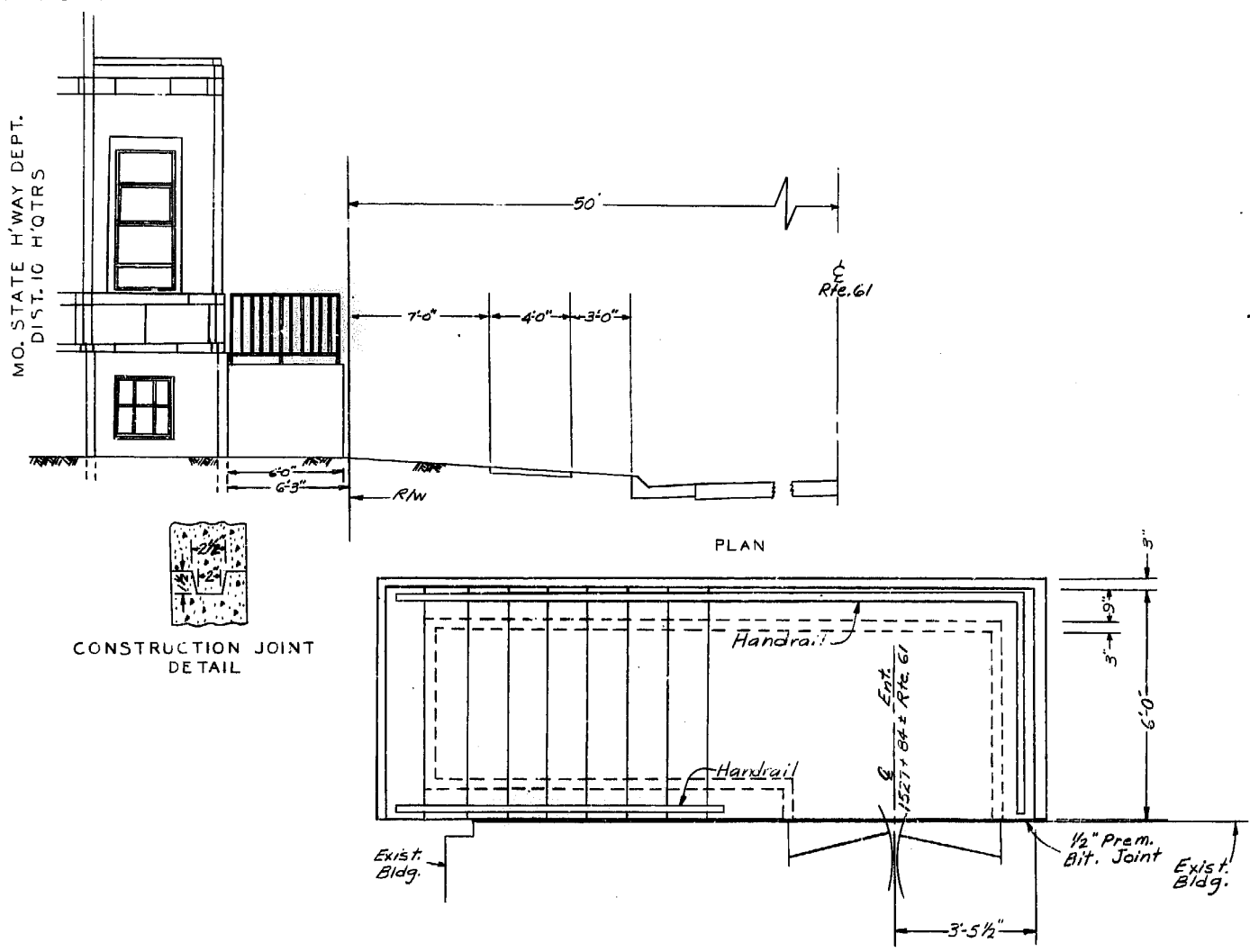
Railings were fabricated in accordance with highest industry standards. Post sections were spaced as shown on the drawing and provide a minimum safe working load of 50 lbs per lineal foot of railing. Pickets were spaced 6" on center and were a minimum of 3/4" square.

Posts were 2" square.

All railing sections and components did withstand the design loads with a factor of safety of 2.0 based on the ultimate strength of the alloy used.

Installation was in accordance with the manufacturer's details. All necessary assembly fasteners were furnished by the manufacturer. Installation fasteners were furnished by the contractor.

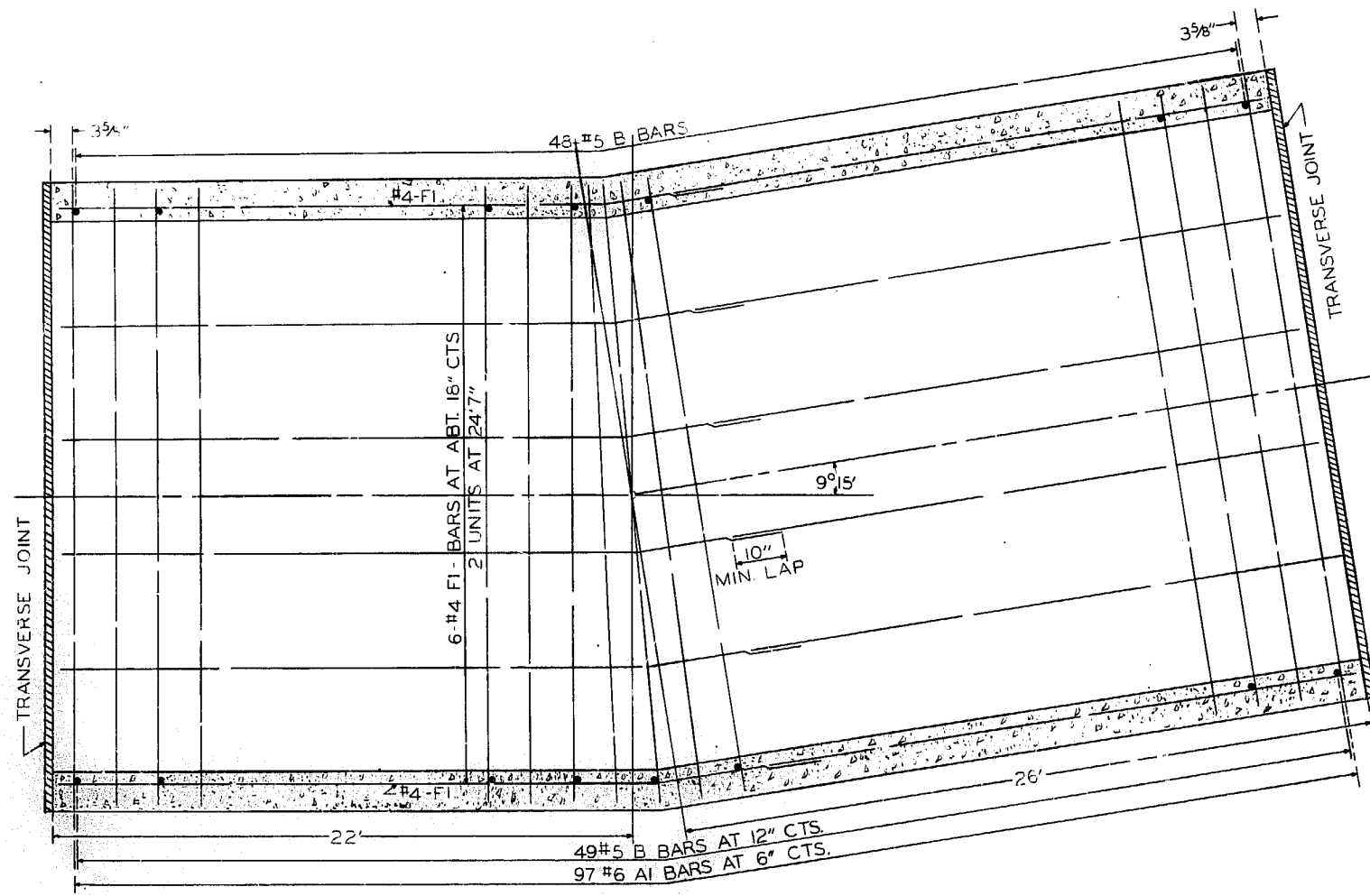
Shop drawings were submitted for approval by the engineer prior to fabrication of railing sections. Drawings did indicate construction of all parts, details of joing, anchoring of post sections, and fastening methods.



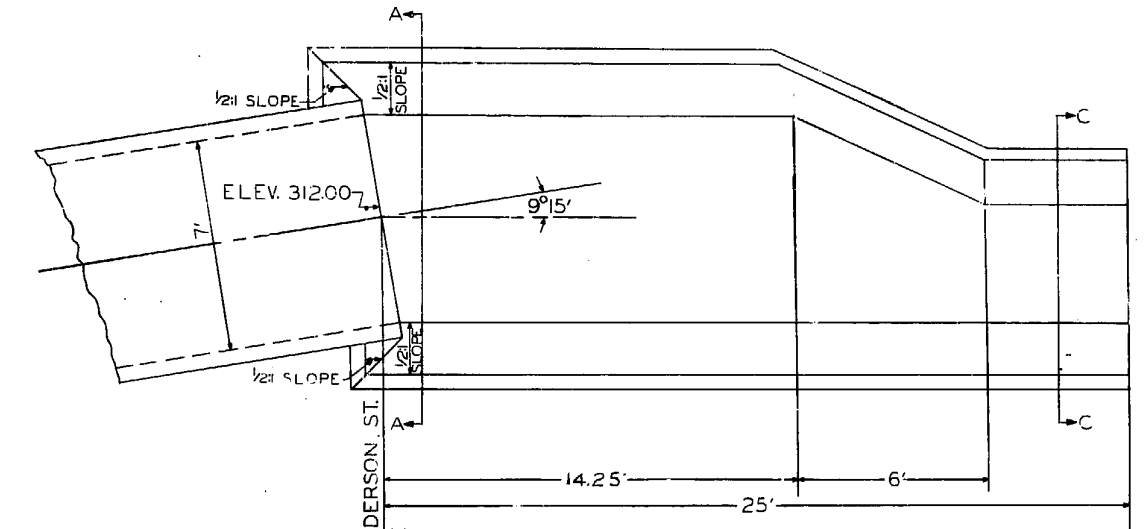
ENTRANCE STEPS
DISTRICT OFFICE BUILDING STA. 1527+84

SPECIAL SHEET NO. 10

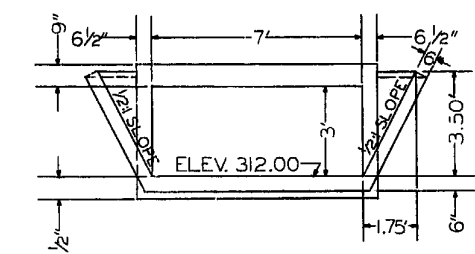
FINAL PLANS



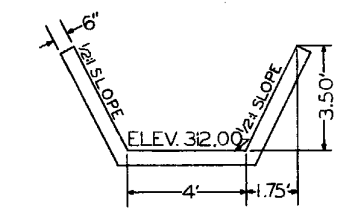
PLAN SHOWING REINFORCING IN
BOTTOM SLAB AND WALLS
SECTION E
NOTE: REINFORCING IN TOP SLAB SHALL BE IDENTICAL TO
THAT IN BOTTOM SLAB



PLAN OF PAVED DITCH

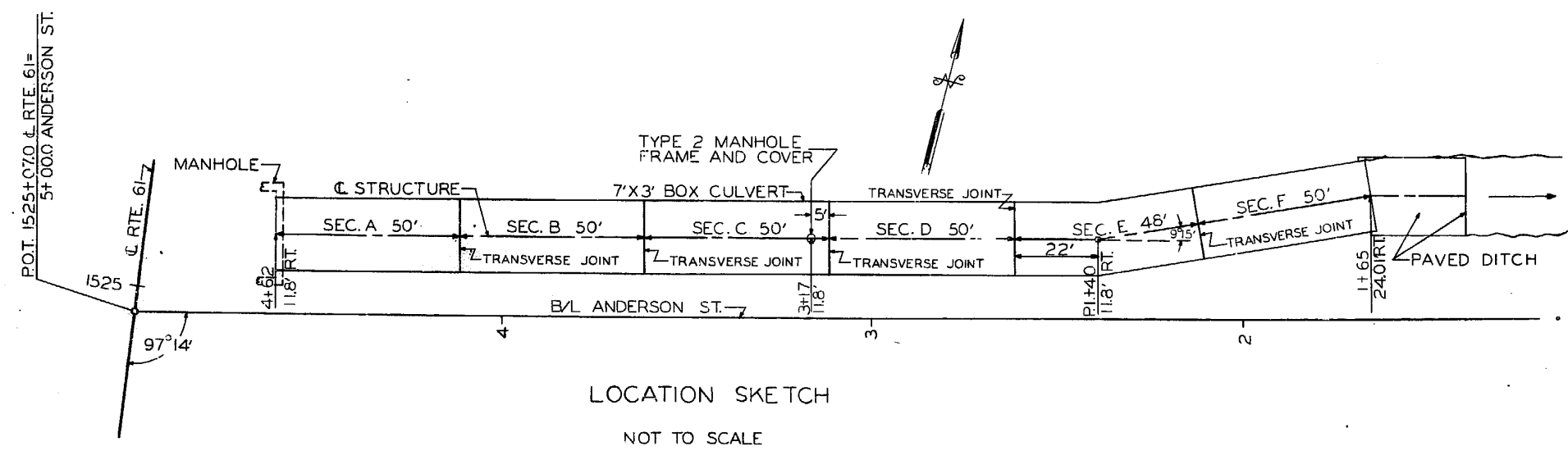


SEC. A-A



SEC. C-C

SEE STD. PLAN 609.15 FOR OTHER DETAILS
DETAIL OF PAVED DITCH
AT OUTLET OF 7'X3' CONCRETE BOX CULVERT



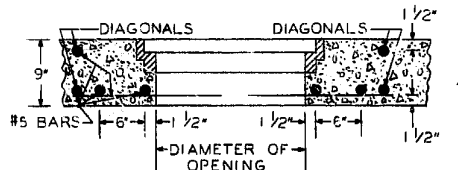
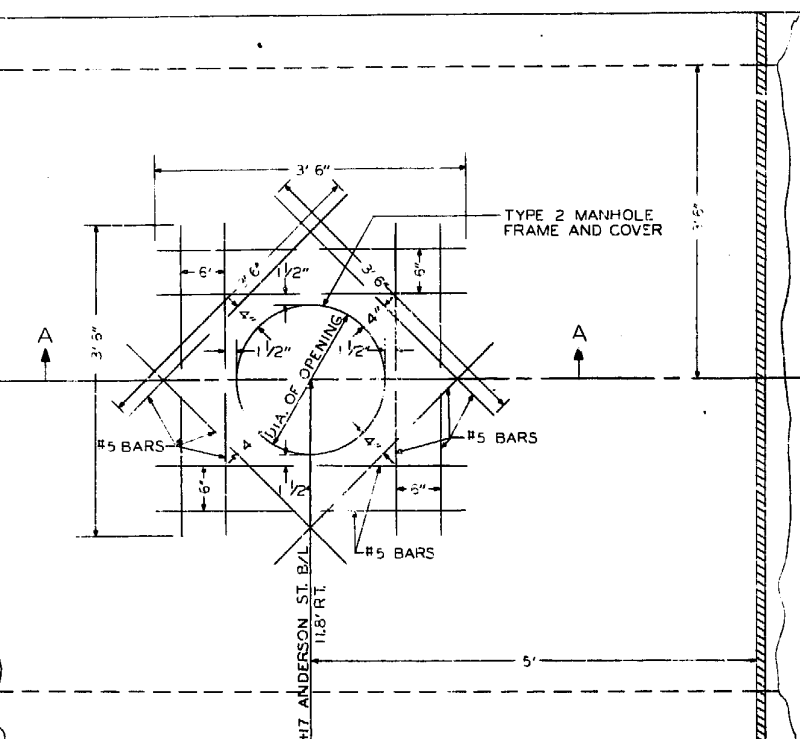
LOCATION SKETCH
NOT TO SCALE

SPECIAL SHEET NO. 11
(SHEET 1 OF 2)

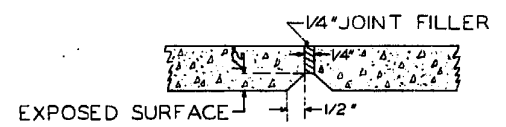
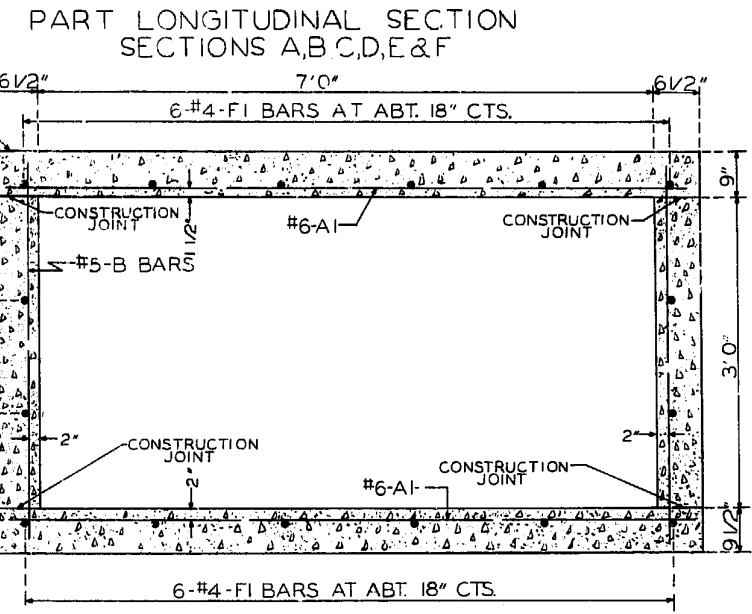
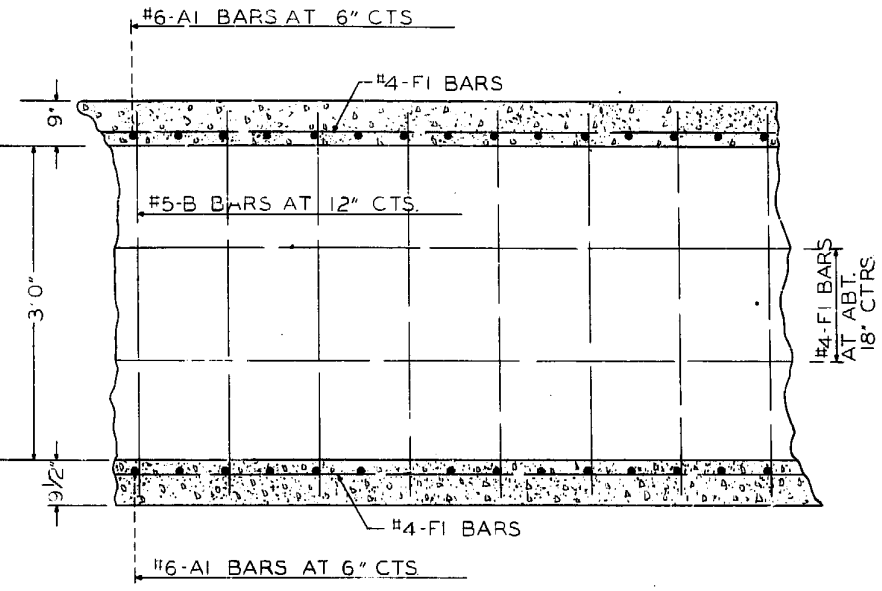
7'X3' CONCRETE BOX CULVERT
SPECIAL DESIGN
STORM SEWER OUTFALL
AT STA. 1525+070 RTE. 61=
5+00 ANDERSON ST. B/L

FINAL PLANS

REINFORCING STEEL			
SECTION A,B,C,D & F - SEC. LENGTH 50 FT.			
NO.	SIZE	LENGTH	MARK
200	#6	7'9"	
100	#5	4'3"	B
32	#4	25'4"	F1
SECTION E - SECTION LENGTH 48 FT.			
NO.	SIZE	LENGTH	MARK
194	#6	7'9"	A1
97	#5	4'3"	B
32	#4	24'7"	F1

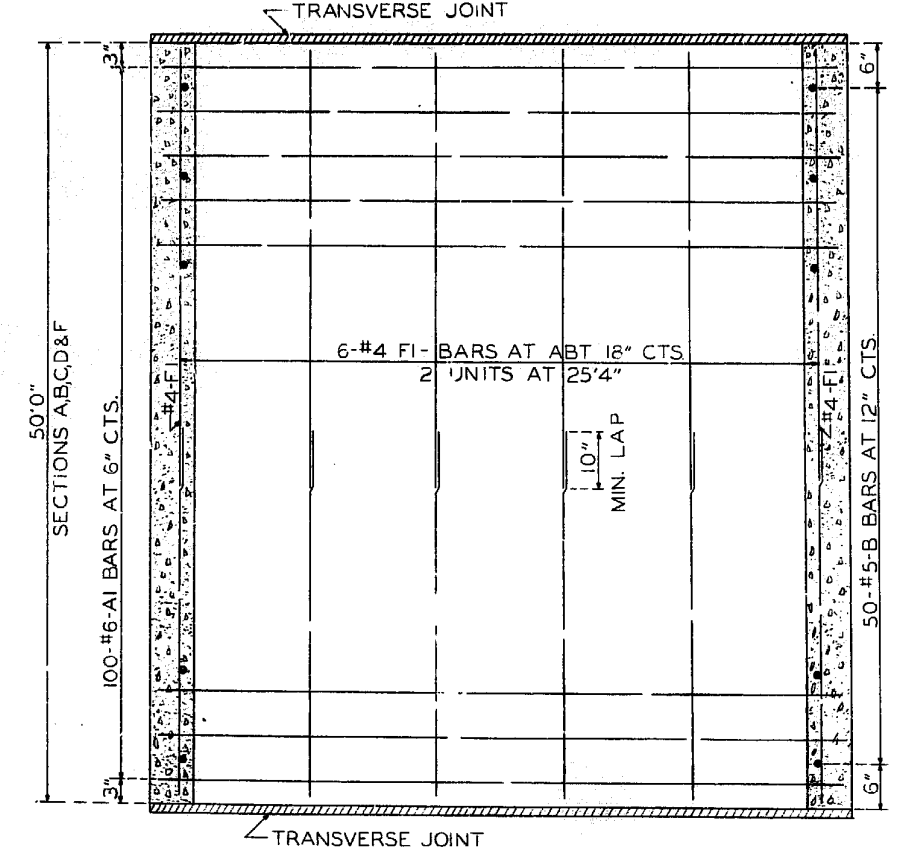


ADDITIONAL #5 BARS REQUIRED FOR MANHOLE FRAME AND COVER
16-#5 AT 3'6" = 58.4 LBS.



DETAIL OF FILLED TRANSVERSE JOINTS

PLAN SHOWING ADDITIONAL REINFORCING REQUIRED FOR MANHOLE FRAME AND COVER AT B/L STA. 3+17(11.8' RT.)



PLAN SHOWING REINFORCING IN BOTTOM SLAB AND WALLS SECTIONS A,B,C,D & F

NOTE: REINFORCING IN TOP SLAB WAS IDENTICAL TO THAT IN BOTTOM SLAB.

PORTIONS OF THE TOP SLAB THAT ARE USED FOR THE RIDING SURFACE WERE BROOMED AS SOON AS THE CONCRETE PERMITTED FINISHING OF THE RIDING SURFACE DID CONFORM TO THE APPLICABLE PORTIONS OF SECTION 501.0.5 OF STANDARD SPECIFICATIONS.

GENERAL NOTES:
REINFORCING STEEL STRESS 20,000 # PSI
CONCRETE STRESS 1,200 # PSI
EARTH 120 # EQUIVALENT FLUID PRESSURE 30#
ALL CONCRETE WAS CLASS B

NOTE: MINIMUM CLEARANCE TO REINFORCING UNLESS OTHERWISE SHOWN. 1/2"
LAP LONGITUDINAL BARS A MINIMUM OF 10" AT SPLICES.

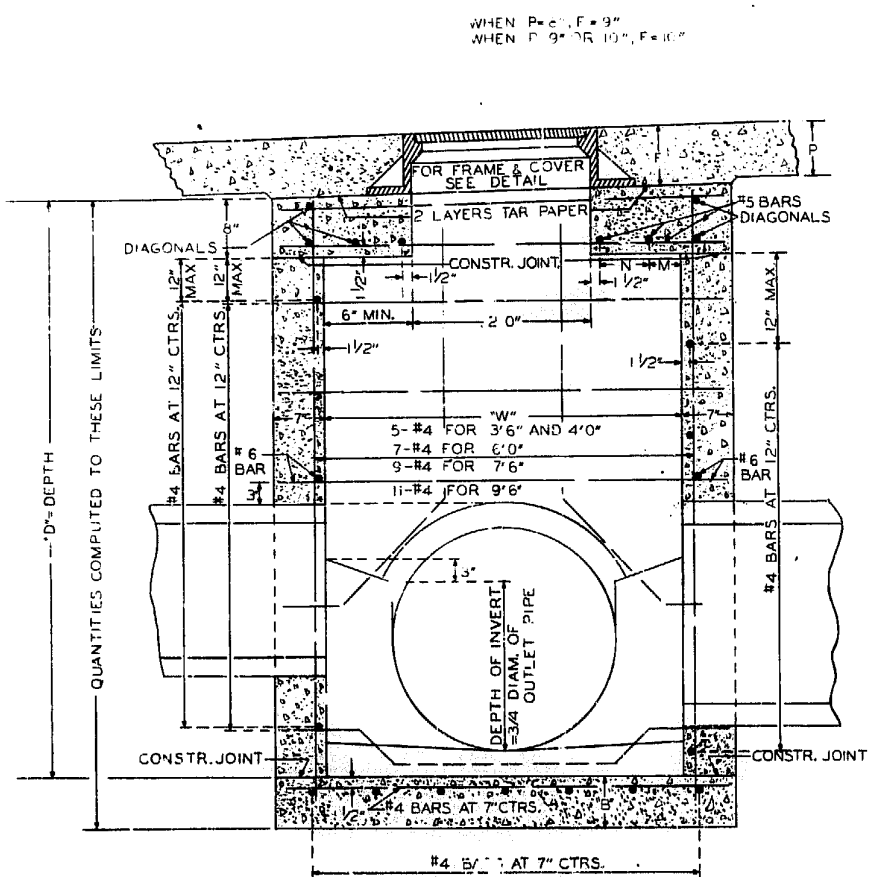
ESTIMATED QUANTITIES		
CLASS 3 EXCAVATION	CU. YDS	578.0
CLASS B CONCRETE	CU. YDS	173.3*
REINFORCING STEEL	LBS.	19840*
TYPE 2 MANHOLE FR. & COVER	EA.	1

*INCLUDES CORRECTION FOR MANHOLE FRAME & COVER.

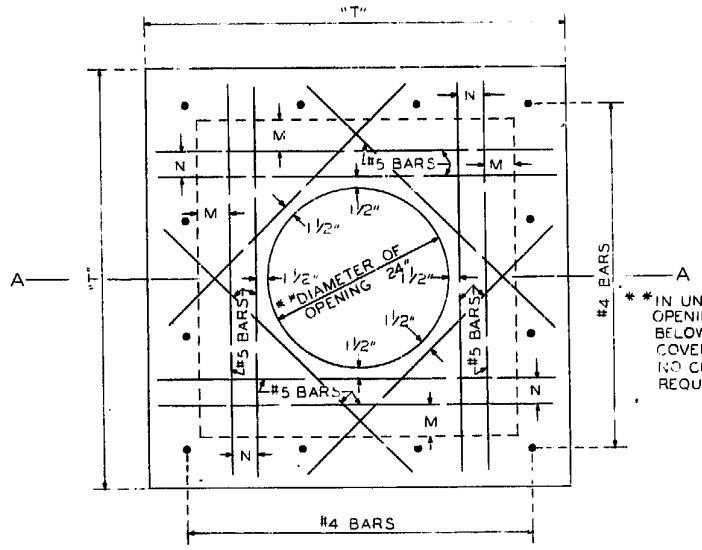
SPECIAL SHEET NO. 11
(SHEET 2 OF 2)

7'X3' CONCRETE BOX CULVERT
SPECIAL DESIGN
STORM SEWER OUTFALL
AT STA. 1525+07.0 RTE. 61=
5+00 ANDERSON ST. B/L

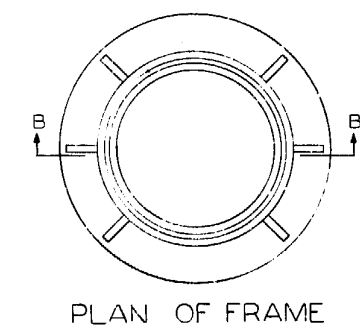
FINAL PLANS



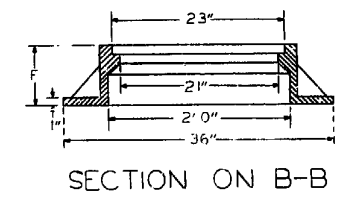
NOTE: CUT HORIZONTAL BARS AND BEND HORIZONTAL AND VERTICAL BARS AROUND PIPES.
 SECTION ON A-A



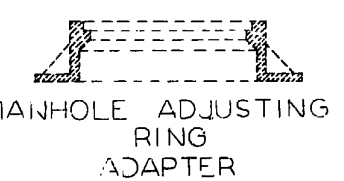
** IN UNPAVED AREAS REDUCED OPENING TO 20". SEE NOTE BELOW UNDER FRAMES AND COVERS. NO CHANGE IN QUANTITIES REQUIRED.



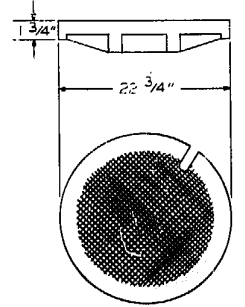
PLAN OF FRAME



SECTION ON B-B



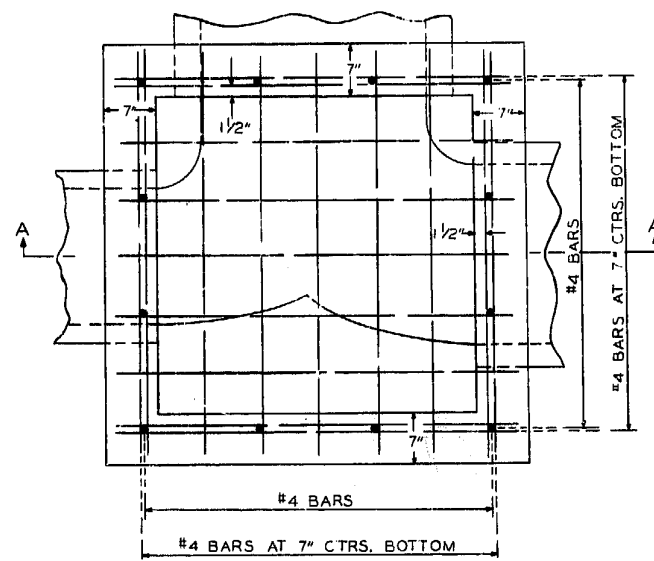
MANHOLE ADJUSTING RING ADAPTER



PLAN OF COVER
 CHECKERED TOP DESIGN

NOTE: WHEN SPECIFIED, USE A LOCK TYPE FRAME & COVER WITH A MINIMUM OF 3 LOCK BLOCKS AND BOLTS.

ELEVATION OF FRAME TYPE I
 FRAME AND COVER



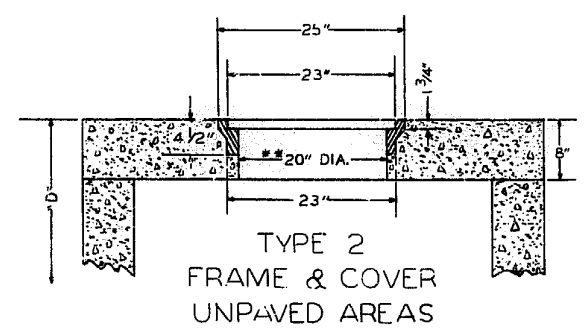
#4 BARS AT 7" CTRS. BOTTOM

FOR PIPE OPENINGS (ELLIPTICAL)					
PIPE SIZE	38" X 60"	43" X 68"	48" X 76"		
C.Y. CONC. TO DEDUCT	.28	.36	.44		
ADDITIONAL #6 BARS REQUIRED					
WIDTH OF WALL	3'6"	4'0"	6'0"	7'6"	9'6"
LENGTH OF #6 BAR REQ'D.	4'6"	5'0"	7'0"	8'6"	10'6"
WEIGHT OF BARS	6.8	7.5	10.5	12.8	15.8

† FOR ROUND PIPE, USE TABLE ON STD. DWG. 604.30A

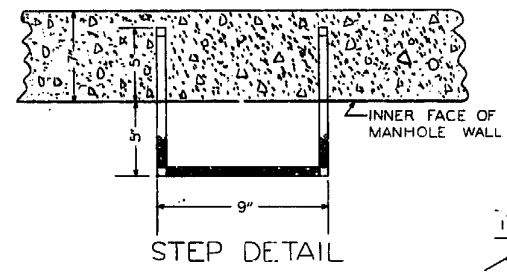
SIZE	H'D.	BAR BILLS			QUANTITIES	
		TOP	SIDES	BOTTOM	CONC. C.Y.	STEEL LBS.
6'0" X 3'6"	5'3"	8-#5-3'6"	VER. 14-#4-5'0"	8-#4-6'9"	3.91	313.9
		5-#5-4'3"	10-#4-5'9"	12-#4-4'3"		
		4-#5-5'9"	HOR. 8-#4-4'3"	8-#4-6'9"		
7'6" X 4'0"	5'3"	8-#5-3'6"	VER. 18-#4-5'9"	15-#4-4'9"	5.04	387.4
		10-#5-4'9"	10-#4-5'9"	9-#4-8'3"		
		4-#5-8'3"	HOR. 8-#4-8'3"	8-#4-4'9"		
6'6"	6'6"	8-#5-3'6"	VER. 18-#4-7'0"	15-#4-4'9"	5.72	445.5
		10-#5-4'9"	10-#4-7'0"	9-#4-8'3"		
		4-#5-8'3"	HOR. 12-#4-8'3"	12-#4-4'9"		
8'0"	8'0"	8-#5-3'6"	VER. 18-#4-8'6"	15-#4-4'9"	6.54	490.9
		10-#5-4'9"	10-#4-8'6"	9-#4-8'3"		
		4-#5-8'3"	HOR. 14-#4-8'3"	14-#4-4'9"		
7'6" X 6'0"	5'3"	8-#5-3'6"	VER. 18-#4-5'9"	12-#4-8'3"	6.40	525.3
		8-#5-6'6"	14-#4-5'9"	15-#4-6'9"		
		10-#5-6'9"	HOR. 10-#4-8'3"	10-#4-6'9"		
9'6" X 4'0"	5'3"	8-#5-3'6"	VER. 22-#4-6'0"	18-#4-4'9"	6.35	488.5
		14-#5-4'9"	10-#4-10'2"	9-#4-10'3"		
		4-#5-10'3"	HOR. 10-#4-10'2"	10-#4-4'9"		

* INCLUDES INVERT

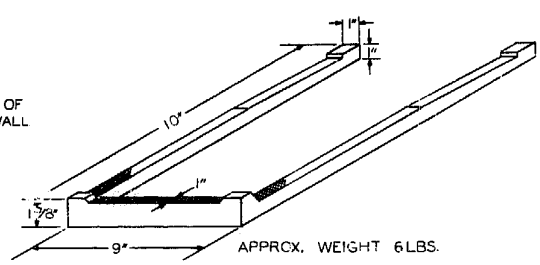


TYPE 2
 FRAME & COVER
 UNPAVED AREAS

NOTE: ON FRAMES & COVERS
 TYPE I-A WHEN PAV'T THICKNESS USED MANHOLE FRAME WITH 9" HEIGHT (F). APPROX. WT. OF FRAME & COVER, 540LBS. ASTM CLASS 35 CASTING.
 TYPE I-B WHEN PAV'T IS 9" OR 10", USE MANHOLE FRAME WITH 10" HEIGHT (F). APPROX. WT. OF FRAME & COVER, 570LBS. ASTM CLASS 35 CASTING.
 TYPE 2 APPROX. WT. OF FRAME & COVER, 280LBS.



STEP DETAIL



APPROX. WEIGHT 6 LBS.

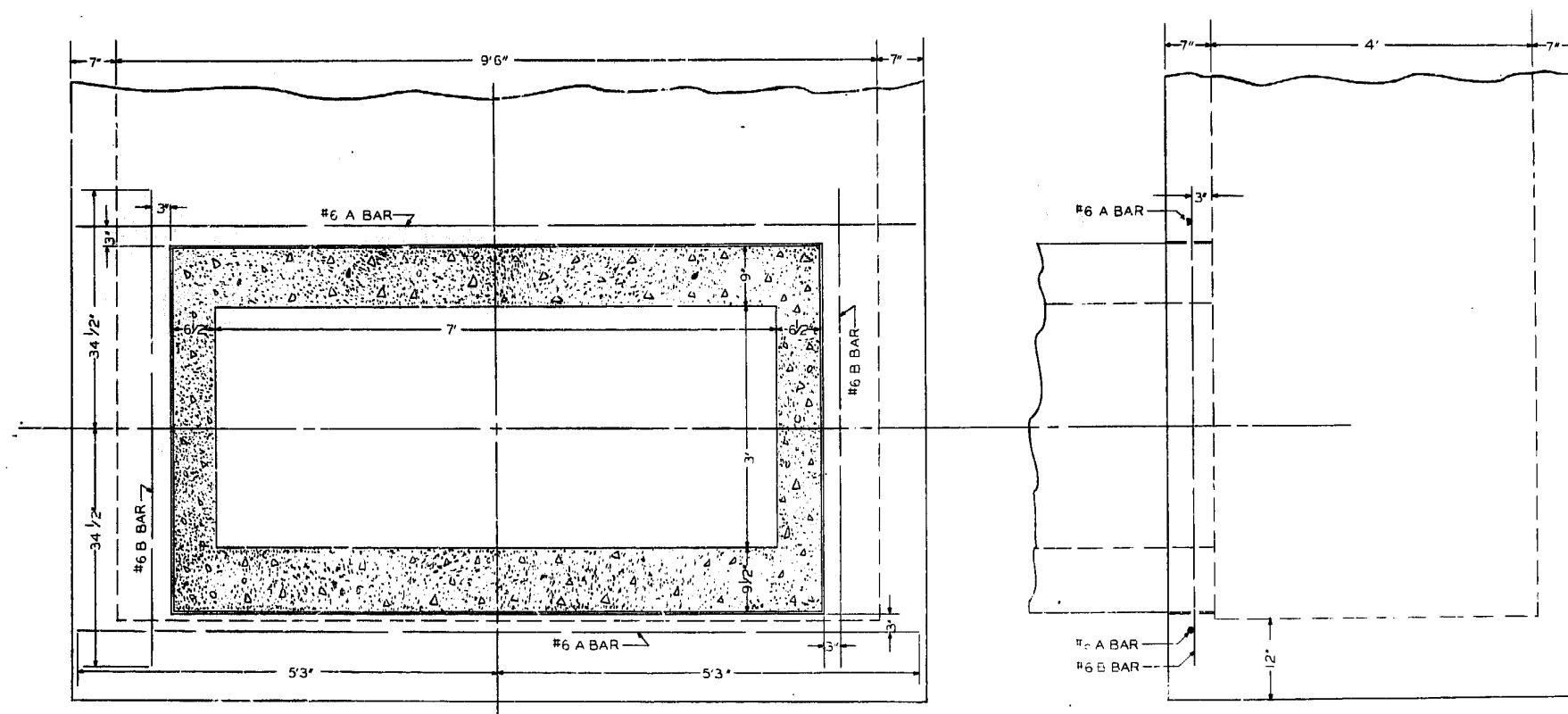
STEPS WERE PLACED AT VERTICAL INTERVALS OF 15' IN ALL MANHOLES HAVING A DEPTH OF MORE THAN FOUR (4) FEET, BEGINNING 6' ABOVE THE TOP OF THE OUTLET PIPE
 STEPS WERE SET LEVEL AND IN VERTICAL ALIGNMENT.
 MANHOLE STEPS NOT A PAY ITEM.

VARIABLE DIMENSIONS					
W"	H"	W"	H"	W"	NUMBER OF BARS
3'6"	4'8"	2"	5 1/2"	7"	4
4'0"	5'2"	2 1/2"	8"	7"	4
6'0"	7'2"	2 1/4"	6 3/4"	9"	8
7'6"	8'8"	2 1/2"	7 1/4"	10"	10
9'6"	10'8"	1 1/2"	7"	12"	14

CONCRETE MANHOLE
 GREATER THAN 5'
 SPECIAL SHEET NO. 12
 SHEET 1 OF 2

FINAL PLANS

QUANTITY CORRECTIONS FOR 7'X3' BOX CULVERT OPENING	
DEDUCT C.Y. CONC.	ADDITIONAL #6 STEEL BARS
0.79	HOR. 2--10' 6" VER. 2--5' 9" TOTAL-48.8 LBS.



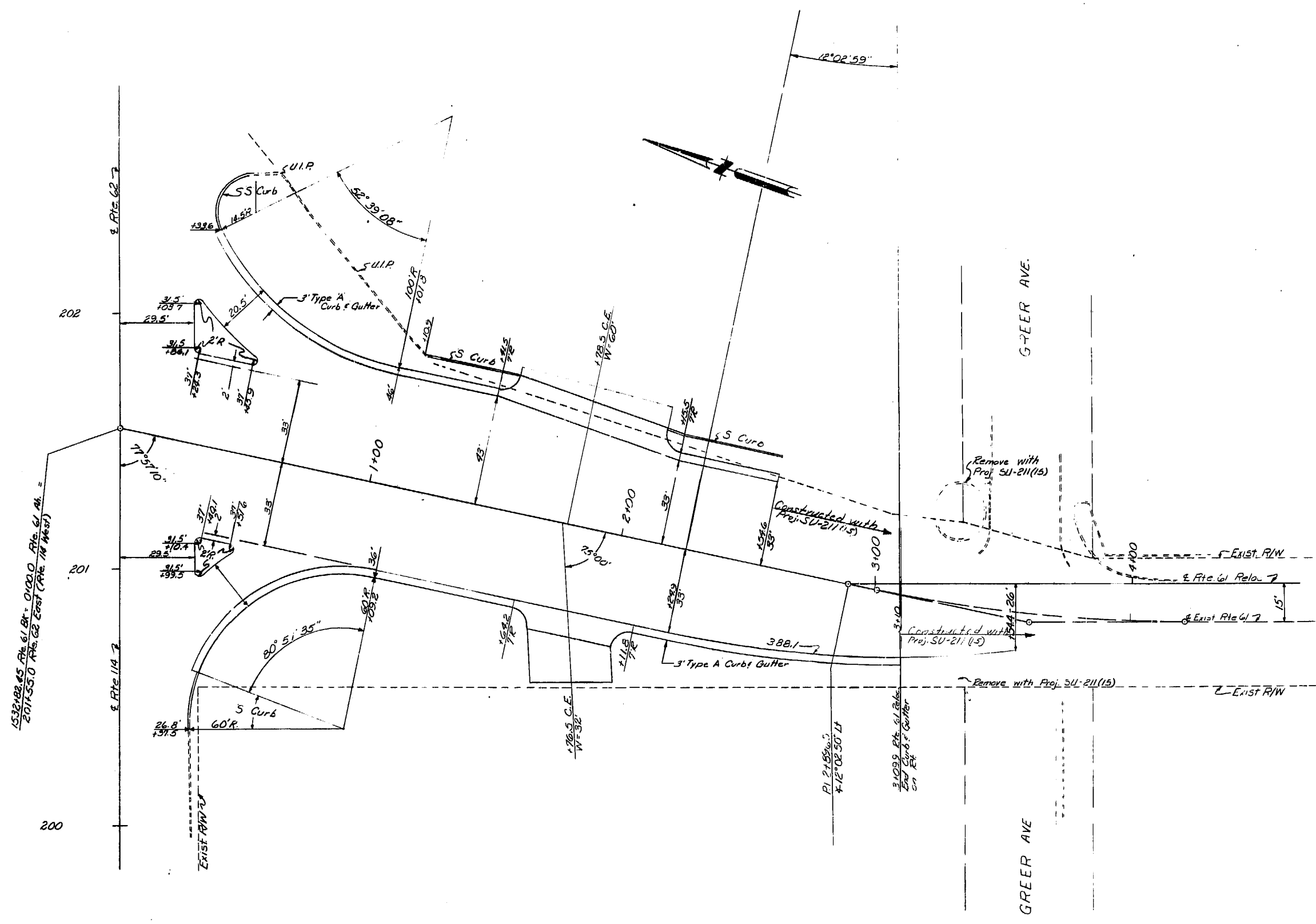
NOTE: PLACE 1/4" JOINT FILLER AROUND BOX CULVERT.

ELEVATIONS SHOWING ADDITIONAL #6 STEEL BARS REQUIRED
FOR INLET OF 7'X3' BOX CULVERT INTO 9'6"X4' MANHOLE

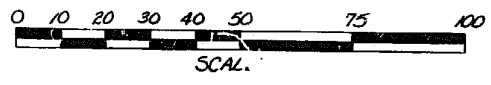
CONCRETE MANHOLE
GREATER THAN 5'
SPECIAL SHEET NO. 12
SHEET 2 OF 2

FED. PROJ. No.	FEDERAL PROJECT No. & SEC.	SHEET No.
5 MO.	SU-SUG-211(12)	27
DIST. No.	COUNTY	ROUTE
10	SCOTT	61

FINAL PLANS

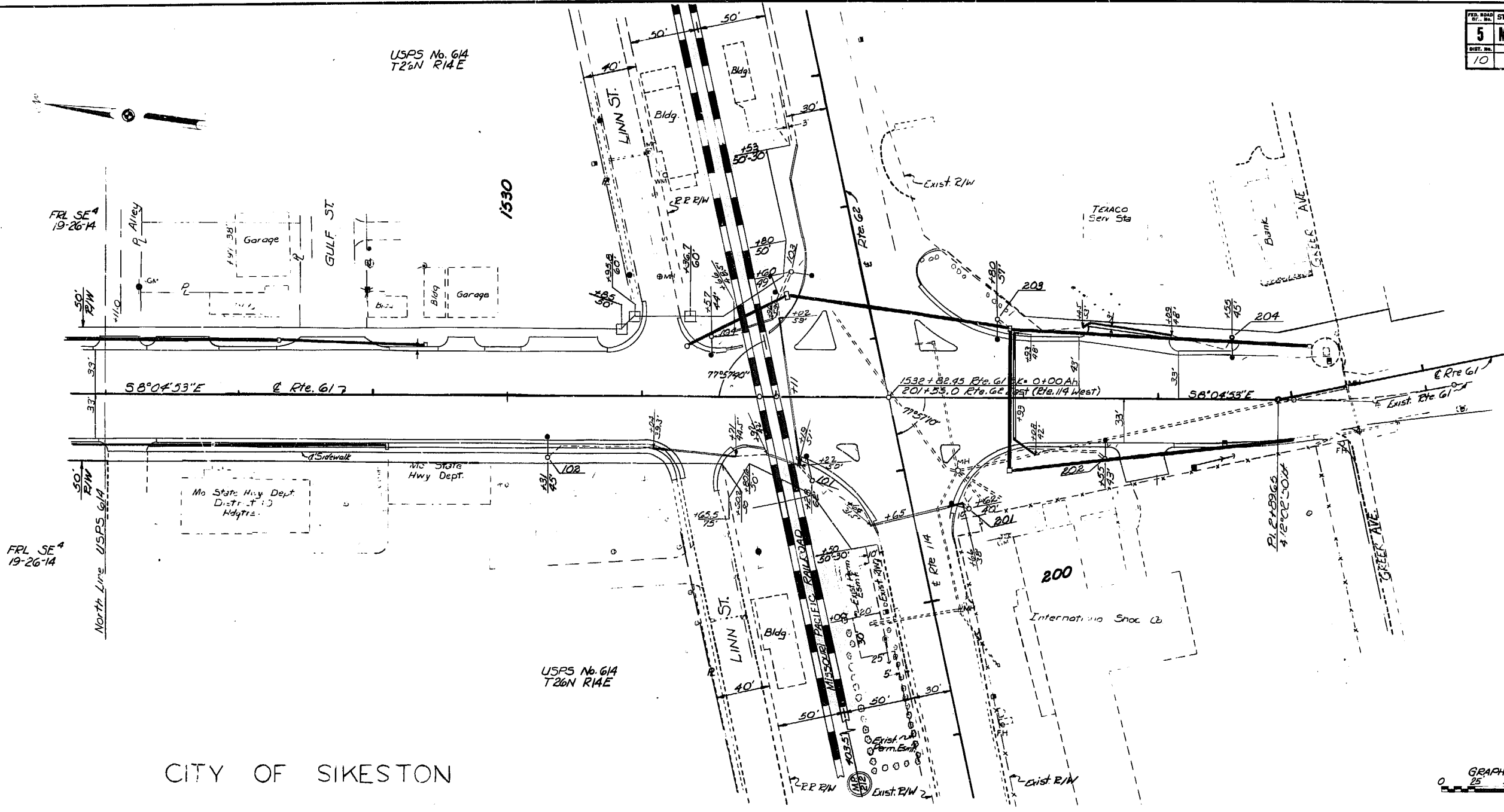


278



FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
10	MO.	511-511G 211(12)	28
DIST. No.	COUNTY	ROUTE	SEC.
	SCOTT	61	

FINAL PLANS



CITY OF SIKESTON



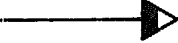


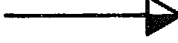












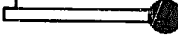

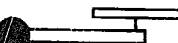
- 400 Watt Mercury Vapor Luminaire
- Bracket Arm
- Light Standard
- New Conduit Under Roadway (In Trench)
- New Conduit Under Roadway (Pushed)
- 2 Single Conductor Cables
- Secondary Service Pole




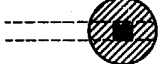
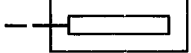
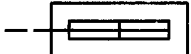




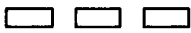
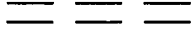





HIGHWAY LIGHTING INSTALLATION
INTERSECTION OF RTE. 61 & 62
IN SIKESTON















FED. RD. DIV. NO.	STATE	FED. PROJ. NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO	SU-SUG-211(12)		29
DIST. NO.	COUNTY		RTE.	SEC.
10	SCOTT		61	

TRAFFIC SIGNAL SYMBOLS

FINAL PLANS

-  OPTICALLY LIMITING SIGNAL HEAD
-  SIGNAL HEAD
-  SIGNAL HEAD WITH BACKPLATE
-  SIGNAL HEAD - PEDESTRIAN
-  POST MOUNTED SIGNAL HEAD WITH SIGN
-  STOP LINE
-  LANE USE
-  TYPE A BASE
-  TYPE B BASE
-  TYPE C BASE
-  JUNCTION BOX
-  CONTROLLER
-  CONCRETE PULL BOX
-  CONCRETE PULL BOX (DOUBLE)
-  BITUMINOUS FIBER PULL BOX
-  SPAN WIRE WITH SIGNAL HEAD
-  MAST ARM WITH SIGNAL HEAD
-  MAST ARM WITH SIGNAL HEADS
-  MAST ARM WITH OVERHEAD SIGN

-  MAST ARM WITH ULTRA-SONIC DETECTOR (NARROW)
-  MAST ARM WITH ULTRA-SONIC DETECTOR (EXTENDED)
-  SIDE FIRE ULTRA-SONIC DETECTOR
-  NON-COMP. MAG. DETECTOR
-  PRES.-SENS. DET. NON-DIRECTIONAL
-  PRES.-SENS. DET. DIRECTIONAL
-  INDUCTION LOOP DETECTOR
-  PUSH BUTTON DETECTOR
-  SERVICE POLE AND POWER SUPPLY
-  RIGID STEEL CONDUIT IN TRENCH
-  RIGID STEEL CONDUIT PUSHED
-  ALUMINUM CONDUIT IN TRENCH
-  ALUMINUM CONDUIT PUSHED
-  RIGID STEEL CONDUIT IN MEDIAN
- 3"** SIZE OF CONDUIT
- 3-2c #12** NUMBER & SIZE OF CABLE
-  SIGNAL FACE NUMBER
-  POST NUMBER
-  DETECTOR NUMBER

-  PULL BOX NUMBER
-  RED LENS
-  AMBER LENS
-  GREEN LENS
-  GREEN STRAIGHT ARROW LENS
-  GREEN LEFT ARROW LENS
-  GREEN RIGHT ARROW LENS
-  DOWN LIGHT
-  12 INCH LENS
-  TUNNEL VISOR
-  TUNNEL VISOR WITH EXTERNAL LOUVERS
-  WALK INDICATION
-  DON'T WALK INDICATION
-  RAIL ROAD CONTROLLER

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET
5	MO.	SU-SUG-211 (12)	30
DIST. NO.	COUNTY	ROUTE	SEC.
10	SCOTT	61	

FINAL PLANS

O.L. Signal Cut-off Detail

1532+82.45 Rte. 61 Bk- 0+00.0 Rte. 61 Ah.
201+55.0 Rte. 62 East (Rte. 114 West)

SERVICE STATION

8820' Traffic Signal

+0.13%

RTE 61

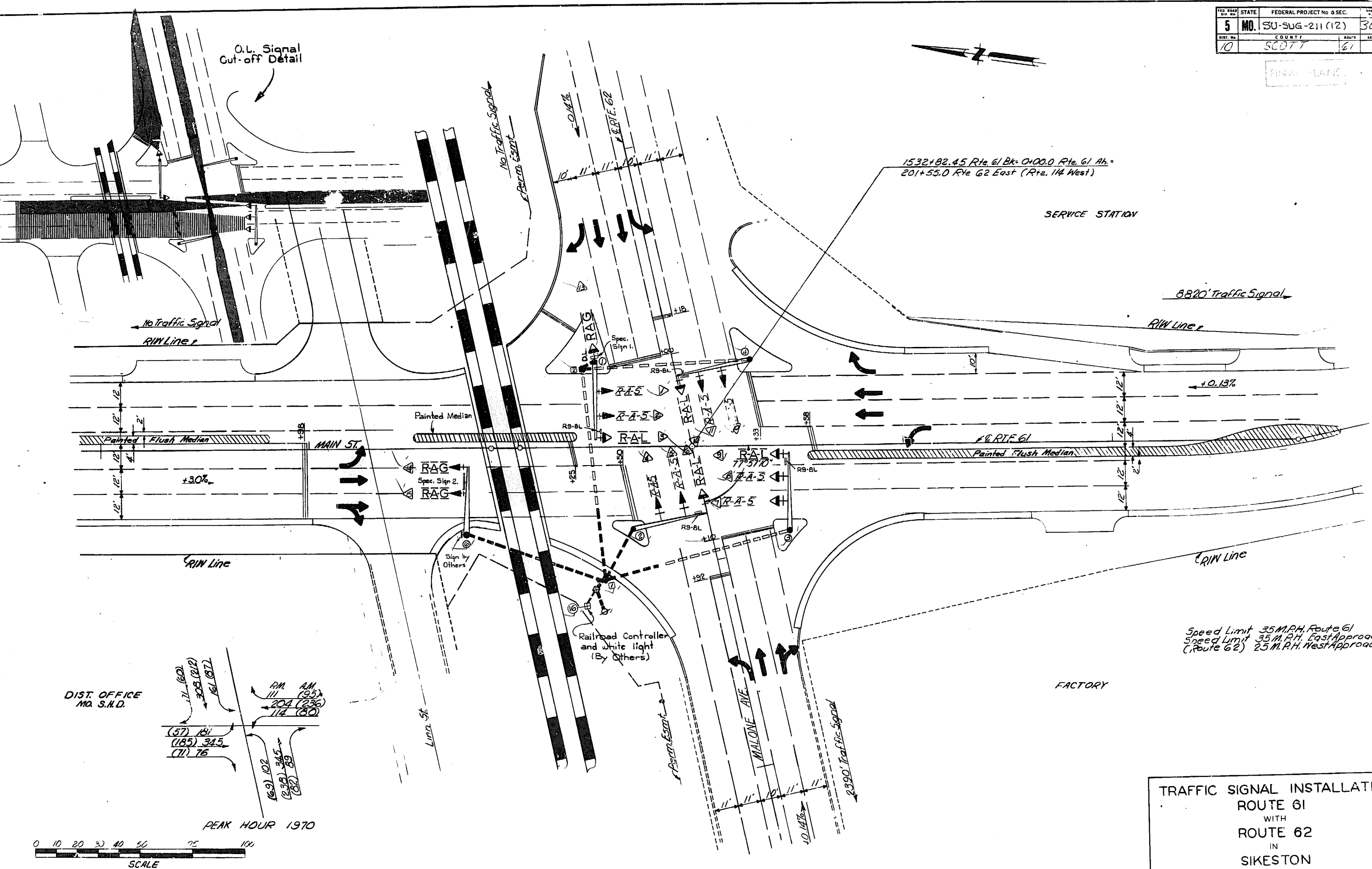
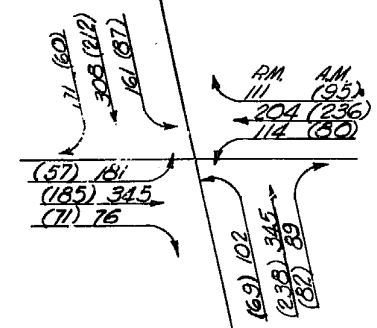
R/W Line

Speed Limit 35 M.P.H. Route 61
Speed Limit 35 M.P.H. East Approach
(Route 62) 25 M.P.H. West Approach

FACTORY

TRAFFIC SIGNAL INSTALLATION
ROUTE 61
WITH
ROUTE 62
IN
SIKESTON

DIST. OFFICE
MO. S.H.D.



TRAFFIC SIGNALS

INTERSECTION
 ROUTE 62

* ITEMS FOR WHICH SEPARATE
 PAYMENT WILL NOT BE MADE.

1-12-1

BASES AND PULL BOXES														
LOCATION	No.	BASES			DETECTORS			PULL BOXES			REMARKS			
		A	B	C	Base Size	Pav't. Rem. SY	Det. Base CY	Concrete	Fiber	Steel				
Rte 61 1532+7	1													
61 1532+54	2													
61 0+45	3													
61 0+28	4													
61 1532+75	6													
61 1532+40	1													
61 1532+31	2													
61 1532+36	Cont. As Req.													2.00
Totals		15.10			2									

CONTROLLER AND EQUIPMENT																
LOCATION	APPR.	STA.	OFF SET	Cont. Type	Controller Assembly Housing	PHASE MODULE				Off Switch and Cabinet Type	Interconnect Master	Interconnect Local	Encoder Unit	Decoder Unit	Pre-emption Unit	REMARKS
						S	D	P	S							
Rte 61 1532+36																
TOTALS		M-M														

POWER SUPPLY									
LOCATION	APPR.	STA.	OFF SET	902.00 Power Supply Asmb.	Service Pole	CIRCUIT BREAKER TRIP RATINGS			CIR. BKR. FRAME SIZE
						AT CONTROLLER	AT SERVICE PL.	Down Lights	
Rte 61 1532+40						30 AMP	40 AMP	50 AMP	
TOTALS						15 AMP	40 AMP	50 AMP	

CONDUIT															
From	To	C to C Dist.	TRENCH				MEDIAN		PUSHED				REMARKS		
			1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	1 1/4	2	2 1/2		3	3 1/2	4
Ø	Ø	11'			14										
Ø	Ø	6'													
Ø	Ø	28'			30										
Ø	Ø	91'			30										
Ø	Ø	69'			46'										
Ø	Ø	10'			14										To Railroad Controller
Ø	Ø	101'													
Ø	Ø	7'			9										
Ø	Ø	80'			6										
Totals					149		36		7				88		140

CABLE											
From	To	C to C Dist.	POWER		CONTROL			LOOP DEF.		ULTRA SONIC	REMARKS
			1c-8	2c-12	3c-12	7c-12	1c-14	2c-18			
Ø	Cont.	11'	138'								
Ø	P-1	114'		145		521					3-7c Cables
Ø	P-2	34'				205					2-7c Cables
Ø	P-3	97'				330					2-7c Cables
Ø	P-4	187'				523					2-7c Cables
Ø	P-6	75'				148					
Ø	RR Cont.	10'		50							2-2c Cables
Sub-Totals			138'	195		1727					
Extra for cutting etc.			12'	15		83					
Totals			150'	210		1810					SP-38

DETECTORS														
DET. N°	PHASE ASSOC.	PRES-SENS.				ULTRASONIC	INDUCTION - LOOP				TIME DELAY			
		Non-Direct	Direct	Push	Butt		Type	Locn.	US UNIT	LOOP SIZE		A x B	CALL UNIT	SW UNIT
		6'	8'	6'	8'		P	M	C	TSC				
TOTALS														

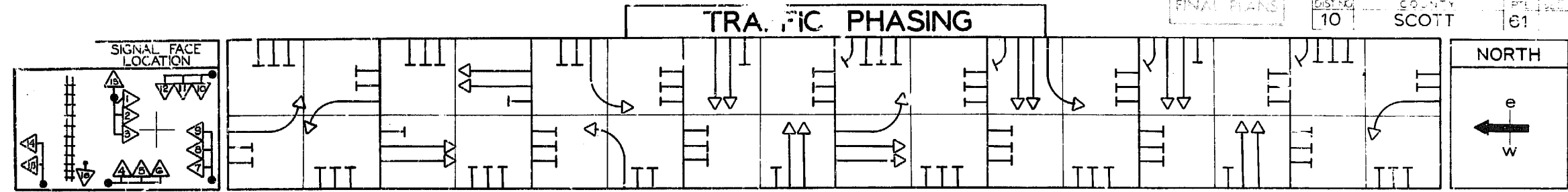
COMMISSION FURNISHED SIGNS																
LOCN.	Post Face	SIZE and TYPE														
		R3-	R8-	R9-	5L	5R	6L	6R	5	6	2	3	6	7	8L	8R
1	3															
2	6															
3	9															
4	12															
1	13															Special No. 1
6	14															Special No. 2
Total		4													2	

- R3-5L LEFT ARROW (SYMBOL) - ONLY
- R3-5R RIGHT ARROW (SYMBOL) - ONLY
- R3-5S STRAIGHT ARROW (SYMBOL) - ONLY
- R3-6L LEFT ARROW-STRAIGHT (SYMBOL)
- R3-6R RIGHT ARROW-STRAIGHT (SYMBOL)
- R8-5 LEFT TURN YIELD
- R8-6 LEFT TURN YIELD ON GREEN
- R9-2 CROSS ON GREEN LIGHT ONLY
- SPNO.1 RAILROAD SIGNAL (24 X 30)
- SPNO.2 RAILROAD SIGNAL (30 X 72)
- R9-7 PUSH BUTTON FOR WALK SIGNAL
- R9-8L LEFT TURN SIGNAL
- R9-8R RIGHT TURN SIGNAL

FINAL PLANS

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- ↔ NON-ACTUATED VEHICULAR MOVEMENT
- ↔ PARTIALLY RESTRICTED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- ↔ NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊗ DETECTOR DISCONNECTED
- ⊙ DETECTOR SWITCHED (FUNCTION NO. 1)
- R/W-RIGHT-OF-WAY INTERVAL
- ∅-TRAFFIC PHASE
- R-RED
- A-AMBER
- G-CIRCULAR GREEN
- S-GREEN STRAIGHT AHEAD ARROW
- L-GREEN LEFT ARROW
- RT-GREEN RIGHT ARROW



COLOR SEQUENCE

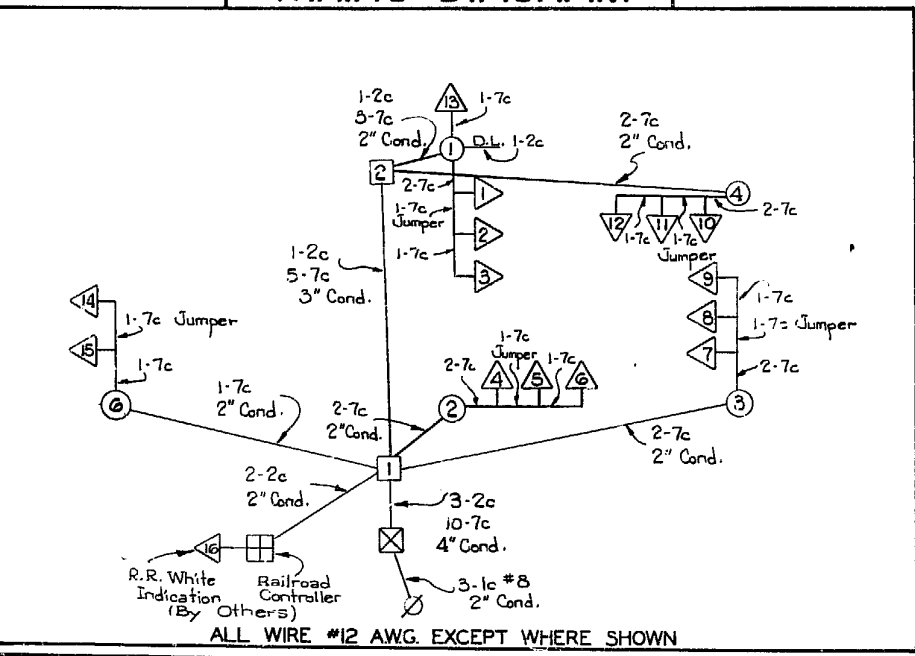
CONT. NO.	FACE	∅ A	∅ B	∅ C	∅ D	∅ Track Clearance	∅ 1	∅ 2	∅ 3	FACE	CONT. NO.
APPROACH	NO. R/W	CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO	NO.	APPROACH
North BOUND Rte. 61 (Main St.)	1	R R R	S A A	R R R	R R R	R R R	R R R	R R R	R R R	1	BOUND
	2	R R R	S A A	R R R	R R R	R R R	R R R	R R R	R R R	2	
	3	L A A	R R R	R R R	R R R	R R R	R R R	R R R	L A A	3	
South BOUND Rte. 61 (Main St.)	7	R R R	S A S	R R R	R R R	S A	R R R	R R R	R R R	7	BOUND
	8	R R R	S A S	R R R	R R R	S A	R R R	R R R	R R R	8	
	9	L A L	R R R	R R R	R R R	L A	R R R	R R R	R R R	9	
East BOUND Rte. 62 (Malone Ave.)	14	Dark A-R	Dark A-R	Dark A-R	Dark A-R	R R	R R G-Dark	R R G-Dark	R R G-Dark	14	BOUND
	15	Dark A-R	Dark A-R	Dark A-R	Dark A-R	R R	R R G-Dark	R R G-Dark	R R G-Dark	15	
West BOUND Rte. 62 (Malone Ave.)	4	R R R	R R R	R R R	S A A	R R	S S A	S A A	R R R	4	BOUND
	5	R R R	R R R	R R R	S A A	R R	S S A	S A A	R R R	5	
E&W BOUND Railroad Indication (By Others)	10	R R R	R R R	R R R	S A A	R R	R R R	R R R	R R R	10	BOUND
	11	R R R	R R R	R R R	S A A	R R	R R R	R R R	R R R	11	
E&W BOUND Railroad Indication (By Others)	12	R R R	R R R	L A A	R R R	R R	R R R	R R R	R R R	12	BOUND
	13	Dark A-R	Dark A-R	Dark A-R	Dark A-R	R R	R R G-Dark	R R G-Dark	R R G-Dark	13	
E&W BOUND Railroad Indication (By Others)	16	Dark	Dark	Dark	Dark	Dark	On/On Dark	On/On Dark	On/On Dark	16	BOUND
	16	Dark	Dark	Dark	Dark	Dark	On/On Dark	On/On Dark	On/On Dark	16	

SUGGESTED TIMING

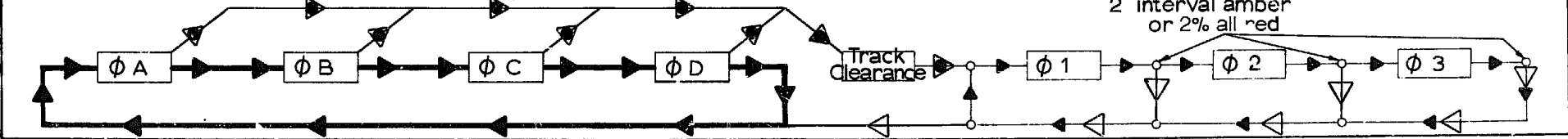
∅	Green	Amber	Selective Amber	All Red	
A	17	3	6		100 Sec.
B	27	3	6		
C	17	3	6		50 Sec.
D	27	3	6		
T.C.	10	3			
1	12	3		2%	50 Sec.
2	17	3		2%	
3	12	3		2%	

In Seconds

WIRING DIAGRAM



FLOW DIAGRAM



- Denotes normal phase sequence.
- ↔ Denotes selective amber to phase in progress.
- ↔ Denotes non-conflicting train pre-emption phase sequence.
- ↔ Denotes release of pre-emption to normal operation.

NOTE: SEE SPECIAL PROVISIONS

CONTROLLER TYPE M-M

FLASHING OPERATIONS

APPROACH	FA
ALL	FR
APPROACH	F

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

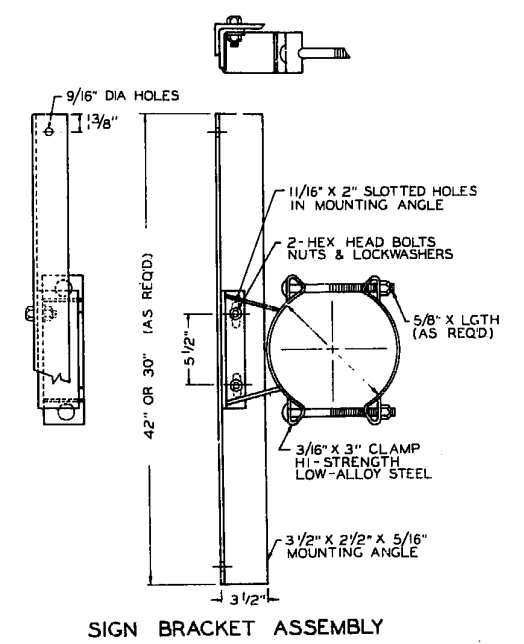
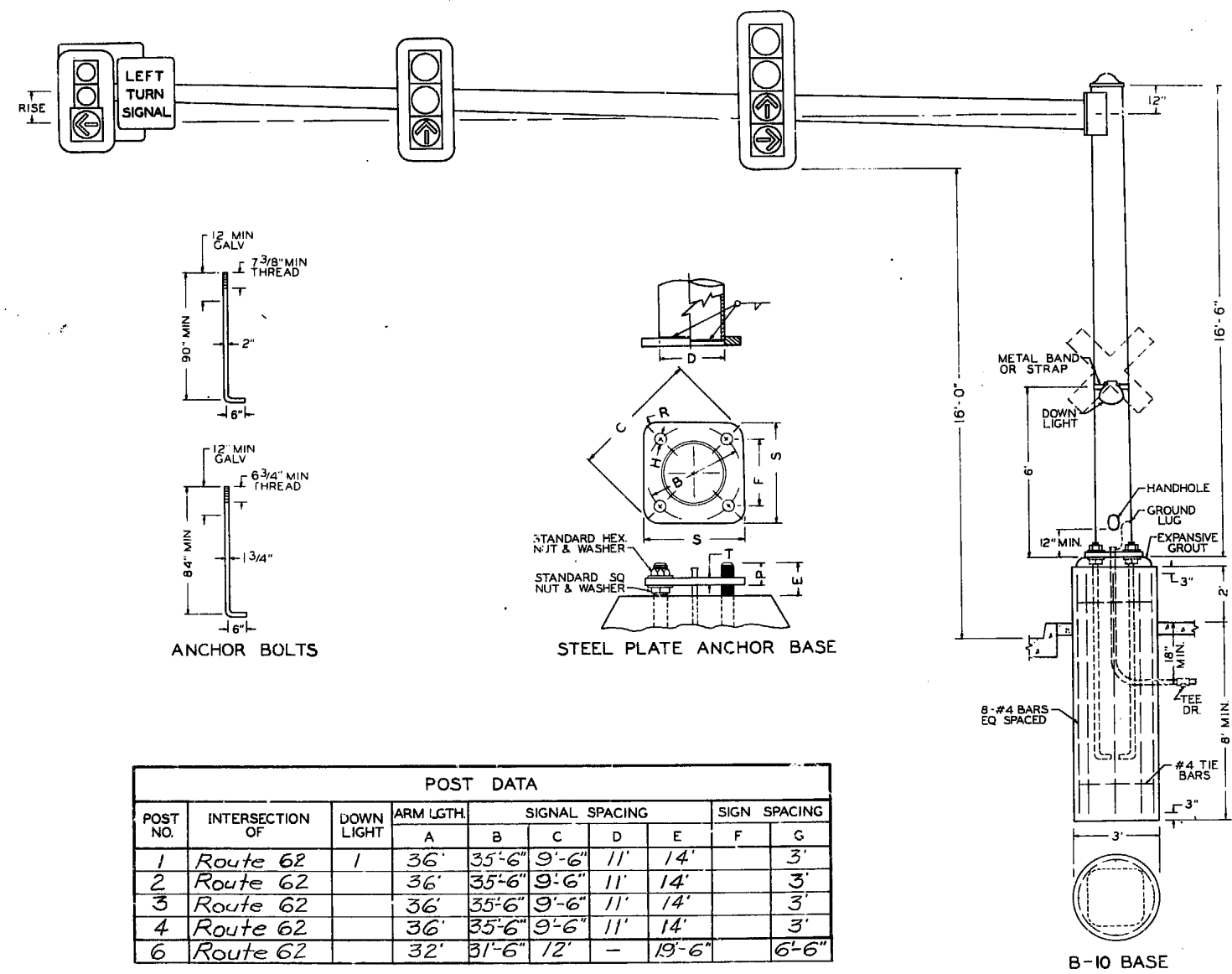
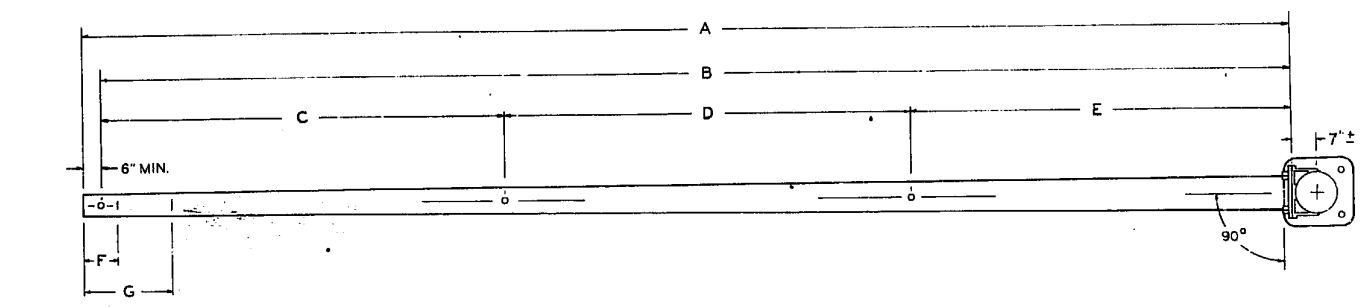
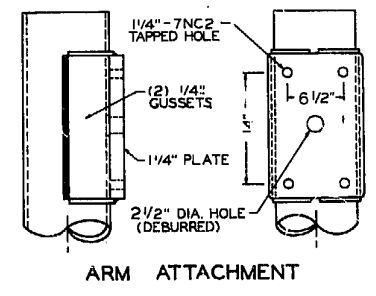
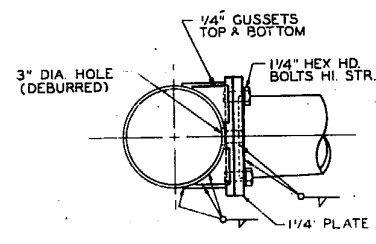
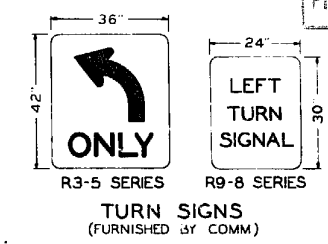
Rte. 61 (Main Street)

WITH

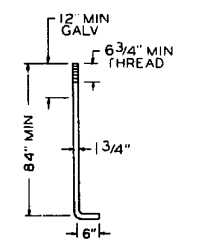
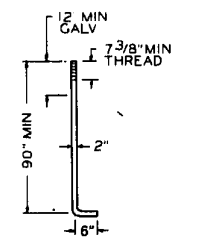
Rte. 62 (Malone Avenue)

P-12-1

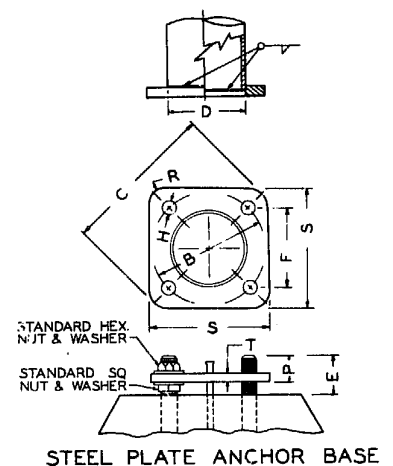
FINAL PLANS



POST	POST BASE PLATE										ANCHOR BOLTS		
	GA.	D	B	C	H	F	P	R	S	T		E	DIA.	LGTH
7	12"	16"	21"	2 1/8"	11 5/16"	4 1/2"	3 3/4"	17"	2"	6 3/4"	1 3/4"	90"	
7	13"	18"	23"	2 1/8"	12 3/4"	4 1/2"	4"	18 1/2"	2"	6 3/4"	1 3/4"	90"	
7	14"	20"	25 1/4"	2 1/8"	14 1/8"	4 1/2"	4 1/2"	20 1/2"	2"	6 3/4"	1 1/4"	90"	
7	15"	22"	28 5/8"	2 3/8"	15 1/2"	4 1/16"	4 5/8"	23"	2"	7 3/8"	2"	96"	



ANCHOR BOLTS



ARM LGTH.	RISE		ARM SIZE	POST SIZE
	MIN	MAX		
26'	9"	17"	7 GA. 9.0" X 5.36"	7 GA. 12" X 9.69" X 16'-6"
28'	9"	18"	7 GA. 9.0" X 5.08"	7 GA. 12" X 9.65" X 16'-6"
30'	10"	19"	7 GA. 10.0" X 5.80"	7 GA. 13" X 10.69" X 16'-6"
32'	10"	21"	7 GA. 10.0" X 5.52"	7 GA. 13" X 10.69" X 16'-6"
34'	11"	22"	7 GA. 11.0" X 6.24"	7 GA. 14" X 11.69" X 16'-6"
36'	11"	23"	7 GA. 12.0" X 6.96"	7 GA. 15" X 12.69" X 16'-6"

POST NO.	INTERSECTION OF	DOWN LIGHT	POST DATA							
			ARM LGTH.	SIGNAL SPACING					SIGN SPACING	
				A	B	C	D	E	F	G
1	Route 62	1	36'	35'-6"	9'-6"	11'	14'		3'	
2	Route 62		36'	35'-6"	9'-6"	11'	14'		3'	
3	Route 62		36'	35'-6"	9'-6"	11'	14'		3'	
4	Route 62		36'	35'-6"	9'-6"	11'	14'		3'	
6	Route 62		32'	31'-6"	12'	-	19'-6"		6'-6"	

NOTE: Octagonal Post design Permitted. See Special Provisions.

- NOTES:
- SIGNS AND SIGNALS were VERTICAL TO THE HORIZONTAL.
 - POST GROUNDED FROM GROUND LUG IN POST WITH NO. 6 AWG BARE COPPER WIRE TO CONDUIT WITH CLAMP. GROUND LUG was 90° OR 180° TO HANDHOLE.
 - HANDHOLE were APPROXIMATELY 4" X 6" WITH REINFORCED FRAME AND COVER.
 - BASE QUANTITY IS 262 CY CONC AND 59 LBS REINFORCING STEEL.
 - POST have REMOVABLE TOP AND ARMS were EQUIPPED WITH END PLATES.

MISSOURI STATE HIGHWAY COMMISSION
TRAFFIC SIGNALS
TUBULAR STEEL POSTS
ONE-TUBE CANTILEVER TYPE C-4

SP 2
JULY 71

MISSOURI STATE HIGHWAY COMMISSION
STANDARD PLANS

FED. ROAD DIVISION		PROJECT	SHEET NO.
5	MO.	SU-SUG-211 (12)	46
DIST. NO.		COUNTY	ROUTE
10		SCOTT	61

✓	NO.	DESCRIPTION
✓	203.00	EXCAVATION & EMBANKMENT
✓	203.02	UNDERGRADING
	203.10	TABULATED EARTHWORK & SECTION DATA
✓	203.20	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
	203.30	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.40	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (NO SAFETY ZONE)
	203.41	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (SAFETY ZONE)
✓	203.50A	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	204.00	EMBANKMENT CONTROL MEASURING DEVICES
	502.00A	CONCRETE PAVEMENT APPURTENANCES
	502.10	DOWEL SUPPORTING UNITS
✓	502.20	CONCRETE APPROACH SLABS TO RAILROAD CROSSINGS
	503.00C	CONCRETE APPROACH SLABS TO BRIDGES
✓	602.00	RIGHT-OF-WAY & DRAIN MARKERS
	604.05	PIPE CULVERT HEADWALLS - TYPE S
	604.10	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15	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)
✓	604.40A	PIPE COLLARS
	605.10	CLASS A UNDERDRAINS
	606.00A	GUARD RAIL (2 SHEETS)
	606.20A	BRIDGE ANCHOR SECTION (ALSO INCLUDE 606.00)
	606.21A	BRIDGE ANCHOR SECTION - CURB TYPE (ALSO INCLUDE 606.00)
	606.30	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40	GUARD CABLE
	606.50	GUARD FENCE
	607.10D	CHAIN LINK FENCE
	607.11A	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20B	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
✓	608.00	PAVED APPROACHES
✓	608.10	CONCRETE SIDEWALK & STEPS
✓	609.00C	CONCRETE CURB - CURB & GUTTER - GUTTER
✓	609.15	PAVED DITCHES
	609.40A	BITUMINOUS DRAIN BASIN
	609.60	DITCH LINER
	610.20A	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60	CONCRETE SLOPE PROTECTION
✓	612.10A	BARRICADES AND FLASHER SIGNS
✓	612.20C	STANDARD CONSTRUCTION SIGNS (5 SHEETS) (ALSO INCLUDE 903.00)
✓	612.25A	PROJECT INFORMATION SIGNS
	612.26A	PROJECT INFORMATION SIGNS (FEDERAL FOREST HIGHWAYS)
✓	614.10B	CURB INLETS, GRATES & BEARING PLATES
✓	614.30	MANHOLE FRAMES & COVERS
	615.00	OFFICE FOR ENGINEERS
	617.00B	CONCRETE MEDIAN BARRIER - TYPE A (2 SHEETS)
	702.01	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
	702.02	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.15A	CONCRETE BOX CULVERTS, H16 LOADING (3 SHEETS)
	703.20A	CONCRETE BOX CULVERTS, HS20 LOADING (3 SHEETS)
	703.24A	CONCRETE BOX CULVERTS, SKEW DATA (703.15, 703.20, 703.30)
✓	703.30A	CONCRETE BOX CULVERTS, 4' SPANS & LESS - ALL LOADING
✓	703.35	CONCRETE BOX CULVERTS, EXTENSION DETAILS
	703.50B	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. H16 LOADING (5 SHEETS)
	703.54A	DOUBLE BOX STRUCTURE TOP SLAB REINF. H20 OR HS20 LOADING (5 SHEETS)
	703.60	CONCRETE BOX STRUCTURE - PIPE INLET
✓	706.30	REINFORCING BAR SUPPORTS
	712.40	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	712.41	STEEL DAMS FOR BRIDGES (4" CHANNEL)
	712.42	FILLET WELDED TEE JOINT TEST
	717.11	TIMBER BRIDGES - 11' ROADWAY
	717.15	TIMBER BRIDGES - 15' ROADWAY
	717.19	TIMBER BRIDGES - 19' ROADWAY
	725.31	METAL CURTAIN WALL AND METAL INLETS
✓	726.30	CULVERT INSTALLATION METHODS
✓	731.00A	PRECAST MANHOLES (ALSO INCLUDE 614.30)
✓	732.00B	FLARED END SECTION (2 SHEETS)
✓	733.00A	PRECAST DROP INLETS (4 SHEETS) (ALSO INCLUDE 614.30)
	806.00A	EROSION CONTROL NETTING (INSTALLATION)
	807.00	GLASS FIBER MAT (INSTALLATION)

✓	NO.	DESCRIPTION
		HIGHWAY LIGHTING
✓	901.00B	POLES & APPURTENANCES - 30' (2 SHEETS)
	901.01D	POLES & APPURTENANCES - 45' (2 SHEETS)
	901.02	POLE MOUNTED SUBSTATION-2400 V - 480 V MULTIPLE CIRCUIT
	901.03	POLE MOUNTED SUBSTATION-7200 V - 480 V MULTIPLE CIRCUIT
	901.10	POLE MOUNTED SUBSTATION-480 V MULTIPLE CIRCUIT
	901.11	POLE MOUNTED SUBSTATION - FOR DELTA & UNG/Y PRIM. SERV.-480 V MULT. CIR.
	901.12	POLE MOUNT. CONT. STA.-SECONDARY SERV.-480 V MULTI. CIR. (NOT METERED)
	901.13	PAD MOUNT. SUBSTATION-ON 10 TO 50 KVA 4800 V MAX. PRI. INPUT
	901.14	PAD MOUNT. SUBSTATION-10000 TO 15,000 V PRIMARY - 10 TO 50 KVA
	901.15	POLE MOUNT. CONT. STA.-SEC. SERV.-120, 240, & 480 V MULTI. CIR.
	901.16	POLE MOUNT. CONT. STA.-SEC. SERV.-480 V MULTI. CIR. (METERED)
	901.17	POLE MOUNT. CONT. STA.-SEC. SERV.-UTIL CO. POLE-120/240 V MULTI. CIR.
	901.18	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR.
	901.19	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (NOT METERED)
	901.20	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR. (SIG. METERED)
	901.21	POLE MOUNT. CONT. STA.-SEC. SERV.-480 V MULTI. CIR. (NOT METERED)
✓	901.22	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 & 480 V MULTI. CIR. (BOTH METERED)
	901.23	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (METERED)
	901.24	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (LT'S & SIGS-BOTH METERED)
		TRAFFIC SIGNALS
✓	902.00	SIGNAL HEADS, LEGS AND MOUNTING
✓	902.10	PULL BOXES, CONTROLLER BASES, POWER SUPPLY, COND. INSTAL.
	902.20	POST - CANTILEVER TRUSS TYPE C-1
	902.30	POSTS, BUTTERFLY AND CANTILEVER, TYPE B AND C-2
	902.40	POST - ONE-TUBE CANTILEVER, TYPE C-3
	902.50	DETECTORS
	902.50	SPAN WIRE DETAILS
		HIGHWAY SIGNING
✓	903.00	STANDARD ALPHABETS (SILK SCREEN) - 5 SHEETS
	903.01	ALPHABETS (CUT OUT) - 5 SHEETS
	903.02A	HIGHWAY SIGNING (11 SHEETS)
	903.03F	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
	903.08A	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09A	LIGHTING SUPPORT BRACKET
	903.10B	SIGN TRUSSES - OVERHEAD ALUMINUM (8 SHEETS)
	903.12B	SIGN TRUSSES - BUTTERFLY & CANTILEVER - STEEL (7 SHEETS)
	903.60C	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.

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