

EXHIBIT 2

DB CONTRACTOR'S PROPOSAL COMMITMENTS, ATCS AND SCHEMATICS

Appendix 1: **Proposal Commitments**

Appendix 2: **ATCs**

Appendix 3: **Schematics**

APPENDIX 1 TO EXHIBIT 2

PROPOSAL COMMITMENTS

SUBSTANTIAL COMPLETION DEADLINE

Substantial Completion will be achieved 644 days after NTP1.

KEY PERSONNEL

Name of Key Personnel	Key Personnel Position
Kurt Knebel	Project Manager
Jeff Billows, PMP	Construction Manager
Larry Zamora, PE	Design Manager
Robert Austin, PE	Professional Services Quality Control Manager
Floyd Martinez, PE	Design Quality Assurance Manager
Jerry Mayer, PE	Construction Quality Control Manager
Brandy Leighton, PE	Construction Quality Acceptance Manager
Jason Maldonado, CFM	Environmental Compliance Manager
Bruce Fuller	Safety Manager

OTHER PROPOSAL COMMITMENTS

ID #	Proposal Location	Proposal Commitment
2	Section D, 4.1.1.1 (b), pg 2	All existing traffic movements to SH130 and FM973 will be maintained and access to all adjoining properties will be maintained at all times.
3	Section D, 4.1.1.1 (c), pg 2	Prior to a shift of traffic for every phase, the DB Contractor will make repairs to the pavement that will be under traffic in the subsequent phase. If a pavement requires repair after a traffic shift the DB Contractor will be perform the repair during off-peak hours and in accordance with standard TCP or a TCP approved by the Engineer.
4	Section D, 4.1.1.4 (d), pg 4	No additional drainage easements.
5	Section D, 4.1.3 (b), pg 6	In addition to the existing requirements of <u>Section 6.2.2.2</u> , the Utility Owners will be given access to a ProjectWise portal allowing them to share documents and access current design files and schedules.

ID #	Proposal Location	Proposal Commitment
6	Section D, 4.1.3 (c), pg 6	In addition to the existing requirements of <u>Section 6.2.2.2</u> during the Utility Coordination process, the DB Contractor will implement a conflict resolution protocol, including a conflict resolution matrix outlining items such as schedule, cost and feasibility of alternatives.
7	Section D, 4.2.1 (a), pg 7	In addition to the existing co-location requirements of <u>Section 2.10</u> , the DB Contractor will establish a single project office to house design, preconstruction and TxDOT staff. The project office will serve as a preconstruction office during design, as well as the overall project management administration office throughout construction.
8	Section D, 4.2.1 (a), pg 7	In addition to the existing requirements of <u>Section 2.1.2</u> , the DB Contractor will provide a full-time document control manager for the project.
9	Section D, 4.2.1 (c) pg 8-9	In addition to the existing requirements of <u>Section 5.4</u> , after NTP all third-party stake holders will be invited to a Preconstruction Conference.
10	Section D, 4.2.1 (c) pg 9	In addition to the existing requirements of <u>Sections 2.3 & 5.4</u> prior to any construction activity, the affected third party and stake holders will be invited to participate in our preparatory and work plan meetings to ensure everyone is aware of what is planned and when it will occur.
11	Section D, 4.2.1 (c) pg 9	In addition to the existing requirements of <u>Sections 2.3 & 5.4</u> , meetings will be held with third-party property owners (such as ABIA) to ensure traffic control and construction traffic has minimal impact to their operations.
12	Section D, 4.2.1 (c) pg 9	Meetings will be held with adjacent property owners prior to any construction activities that may affect the access or operations of the property.
13	Section D, 4.2.1 (d) pg 9	“Task forces” will be developed for specific disciplines, and consist of both design and construction personnel. Weekly task force meetings will be held and attendees will include management, schedulers, and estimators as necessary. During the Project, these meetings will be expanded to include subcontractors, suppliers, the City of Austin, stakeholders, utilities, ABIA, and TxDOT.

ID #	Proposal Location	Proposal Commitment
14	Section D, 4.2.1 (e) pg 9	TxDOT and DB Contractor will meet immediately upon award of the contract for a half day partnering session to establish the “Design-Build Project Charter” outlining agreed upon expectations of both parties (i.e.. Meeting participation, packaging of submittals, review times, communication methods, team goals, and other specific areas of concern).
15	Section D, 4.2.1 (e) pg 10	An Executive Oversight Committee, consisting of TxDOT and DB Contractor, will meet quarterly throughout the project to evaluate the project performance against the Charter objective and to address any issues that are negatively affecting the project team.
16	Section D, 4.2.2 (b), pg 13-14	In addition to the existing Key Personnel requirements in <u>Section 7.4</u> , Key Personnel commitments include the following: • Project Manager (100% committed to ensuring success of the project and will spend time on site as needed) • Construction Manager (100%) • Design Manager (100% during the design phase) • DQAM (100% during the design phase) • CQAM (100% during construction) • Safety Manager (100% during construction)
17	Section D, 4.2.4 (c), pg 16	In addition to the existing requirements in <u>Section 19</u> , the DB Contractor’s daily inspections of the corridor will include access to adjacent properties to verify that access is being properly maintained. Daily inspections by the DB Contractor will be completed to ensure the roadway is being properly maintained and to identify and repair any damage. Dust/Erosion crews will circulate the project on a daily basis to ensure compliance with dust control/erosion control policies.
18	Section D, 4.2.4 (d), pg 16	DB Contractor will meet with management of adjacent projects on a monthly basis to coordinate schedules/resolve issues.
19	Section D, 4.2.4 (e), pg 16	In addition to the existing requirements of <u>Section 18.2.1(n)</u> , the message signs will broadcast upcoming traffic switches at least 30 days in advance.
20	Section D, 4.2.4 (e), pg 16	In addition to the existing requirements of <u>Section 3.2.7</u> , information for the project website will be provided to TxDOT and will include updated weekly project traffic updates.

ID #	Proposal Location	Proposal Commitment
21	Section D, 4.2.5 (c) pg 18	In addition to the existing monthly Project Status Schedule Updates, DB Contractor's reporting will include a Schedule Performance Index and a Cost Performance Index based on planned costs
22	Section D, 4.2.8 (c), pg 21	In addition to the comprehensive Safety Plan, all subcontractors must submit a Site-Specific Safety Plan.
23	Section D, 4.2.8 (c), pg 21	Additional commitments to the Project Specific Safety Plan will include the following: • Comprehensive job site safety inspections will occur on a regular basis including daily inspections by foremen and safety monitors; • Weekly inspections with written reports by the superintendent and a labor representative; • Unannounced inspections by the Safety Manager at least bi-weekly; and • Monthly Project Director's monthly safety inspection.
24	Section D, 4.2.8 (c), pg 21	All employees, both McCarthy and any subcontractors, will fill out a Task Hazard Analysis for the specific task they are working on that day.
25	Section D, 4.2.8 (e), pg 22	Any work in close proximity to live traffic will be suspended during extremely high traffic periods (such as COTA events) to ensure safety.
26	Section D, 4.2.9, pg 23	DB Contractor will establish a "Heavy Highway Mentoring Program" with the goal of growing DBE firms on the Project. A survey will be conducted/distributed to DBE firms in the region to determine specific needs prior to implementation.
27	Section D, 4.2.9, pg 23	Mentoring Program: Workshop Training- annual 1-day training workshops (two training series) located at the Hilton Hotel at ABIA (three one-hour workshops in the morning and three in the afternoon).
28	Section D, 4.2.10 (a), pg 24	Work that requires a lane closure on Presidential Blvd and Spirit of Texas will be done under single lane closures.
29	Section D, 4.2.10 (a), pg 24	The Presidential Blvd widening will be completed in three months.
30	Section D, 4.2.12 (a), pg 26	DB Contractor's Maintenance Group will travel the corridor on a weekly basis and videotape the condition of traffic control measures and general condition of the corridor. Maintenance group will review and assess tapes on a monthly basis and recommend improvements. All inspections and video tapes will be saved to the web-based document control system.

ID #	Proposal Location	Proposal Commitment
31	Section D, 4.2.12 (b), pg 26	Maintenance Group will spend the final month of the Project working with the Authority's maintenance group to facilitate the transition of maintenance responsibilities.
32	Section D, 4.3.1 (a) 3, pg 27	In addition to the existing requirements of <u>Section 2.1.2.1</u> , TxDOT will have access to all documents within Document Control 24/7.
33	Section D, 4.3.1 (a) 4, pg 27-28	DB Contractor will conduct an internal quality audit within two months from commencement and quarterly thereafter of the Team's processes to identify corrective and preventative actions, non-compliance, repeat non-compliance safety issues, risks, and improvement opportunities.
34	Section D, 4.3.1 (e), pg 28-29	The Quality Management Plan will outline the documentation of construction deficiencies and non-compliance issues on a Non-Compliance Report (NCR). The NCR will be forwarded to the Project Manager for action. The NCR will include at least the following information: 1. A unique NCR# will be assigned from the NCR log 2. Definition and identification of non-conforming condition 3. Classification for required action 4. The person responsible for resolution (assigned by the PM) 5. A description of the resolution 6. The date of resolution (signed & dated by person responsible for resolution) 7. QCM's concurrence (prior to implementation of correction action) 8. QCM will provide follow-up inspections, verification and NCR closure A detailed NCR log will be kept up to date with the status of all NCRs.

APPENDIX 2 TO EXHIBIT 2

The following table contains the DB Contractor's approved alternative technical concepts (ATCs), as well as approved ATCs of unsuccessful Proposers, that the DB Contractor has committed to incorporate into the Project. The Deviations set forth in the ATC submittals are approved by TxDOT subject to satisfaction of any conditions set forth in the letters from TxDOT to DB Contractor or the unsuccessful Proposer. Such Deviations, subject to satisfaction of any listed "conditions," expressly supersede any conflicting provisions in the Technical Provisions, as provided in Section 1.2.2 of the Design-Build Agreement. The ATCs shall otherwise meet all requirements of the Technical Provisions.

ATCs

ID #	Proposal Location	Proposal Commitment
ATC #2	Section D, 4.1, pg 1	Commit to implementing this ATC (Reduce FM973 structure costs)
ATC #3	Section D, 4.1, pg 1	Commit to implementing this ATC (Reduce FM973 structure costs)
ATC #4	Section D, 4.1, pg 1	Commit to implementing this ATC (Reduce FM973 structure costs)
ATC #6	Section D, 4.1, pg 1	Commit to implementing this ATC (Reduce Presidential Blvd. architectural pylon costs)
ATC #7	Section D, 4.1, pg 1	Commit to implementing this ATC (Reduce Presidential Blvd. architectural pylon costs)
Supp ATC#1		Commit to implementing supplemental ATC (MSE wall staggered horizontal joint and aligned vertical joint pattern)
Supp ATC#3		Commit to implementing supplemental ATC (1" TOM for new flexible pavement sections)
Supp ATC#4		Commit to implementing supplemental ATC (Prime coat underseal in lieu of one course surface treatment)
Supp ATC#11		Commit to implementing supplemental ATC (1" TOM for mill and overlay sections)

APPENDIX 3 TO EXHIBIT 2

SCHEMATICS

The attached CD contains DB Contractor's Schematics, which formed the basis of DB Contractor's Proposal.



TECHNICAL DRAWINGS,
GRAPHS, AND DATA



MCCARTHY

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
GENERAL	
1	TITLE SHEET AND INDEX OF SHEETS
2 - 9	TYPICAL SECTIONS
TRAFFIC CONTROL PLAN	
10 - 26	TCP TYPICAL SECTIONS
27 - 29	PHASE 1 TCP LAYOUT
30 - 32	PHASE 2 TCP LAYOUT
33 - 35	PHASE 3 TCP LAYOUT
36 - 38	PHASE 4 TCP LAYOUT
39 - 41	PHASE 5 TCP LAYOUT
ROADWAY DETAILS	
42 - 48	HORIZONTAL ALIGNMENT DATA
49	SUPER ELEVATION TABLE
50 - 58	SH 71 PLAN & PROFILE
59 - 61	FM 973 PLAN
62 - 63	SH 71 EB PROFILE
64 - 65	SH 71 WB PROFILE
66 - 67	FM 973 NB PROFILE
68 - 69	FM 973 SB PROFILE
70	SH 71 FRONTAGE ROAD PROFILES
71	SH 71 TURNAROUND PROFILES
72 - 74	SH 71 RAMP PROFILES
DRAINAGE DETAILS	
75	DRAINAGE AREA MAP
76 - 93	SH 71 DRAINAGE PLAN
94 - 98	FM 973 DRAINAGE PLAN
BRIDGES	
99 - 100	SH 71 SPIRIT OF TEXAS DRIVE - BRIDGE LAYOUT
101	SH 71 PRESIDENTIAL BLVD - BRIDGE WIDENING
102	SH 71 PRESIDENTIAL BLVD - ESTIMATED QUANTITIES
103	SH 71 PRESIDENTIAL BLVD - SOIL NAIL WALL DETAILS
104 - 105	SH 71 FM 973 - BRIDGE LAYOUT
106 - 108	SH 130 FLYOVER - BRIDGE LAYOUT
109	SH 130 FLYOVER - ESTIMATED QUANTITIES
110	SH 130 FLYOVER - AESTHETIC DETAILS
111 - 112	SH 71 ONION CREEK - BRIDGE LAYOUT

RETAINING WALL

COUNTY _____ PROJ. NO. _____

HWY. NO. _____ LETTING DATE _____

DATE ACCEPTED _____

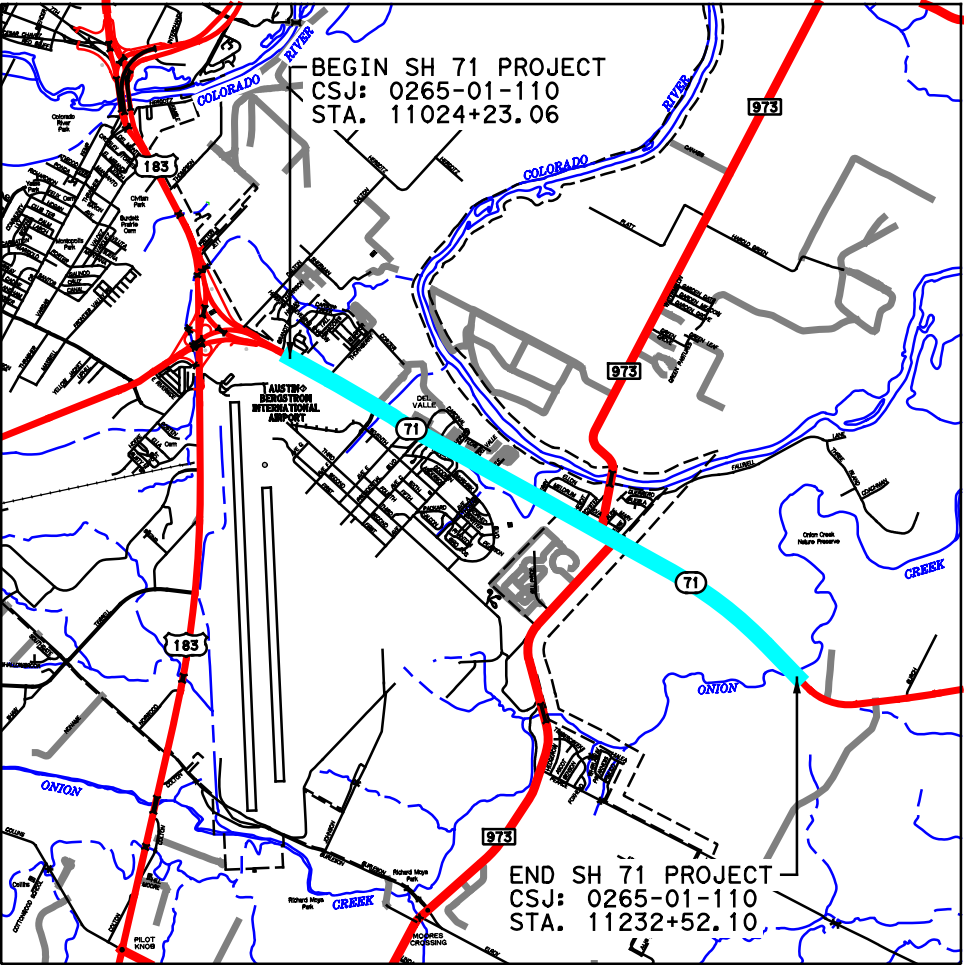
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, JUNE 1, 2004 AND THE SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000--007)

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY 71

TRAVIS COUNTY
LIMITS
FROM: PRESIDENTIAL BLVD
TO: EAST OF SH 130
LENGTH
ROADWAY 16444.51 FT = 3.114 MI
BRIDGE 4384.53 FT = 0.830 MI
TOTAL 20829.04 FT = 3.944 MI

FOR THE CONSTRUCTION OF:
TOLL LANES, GENERAL PURPOSE LANES, AT-GRADE RAMPS, AND INTERSECTION IMPROVEMENTS.

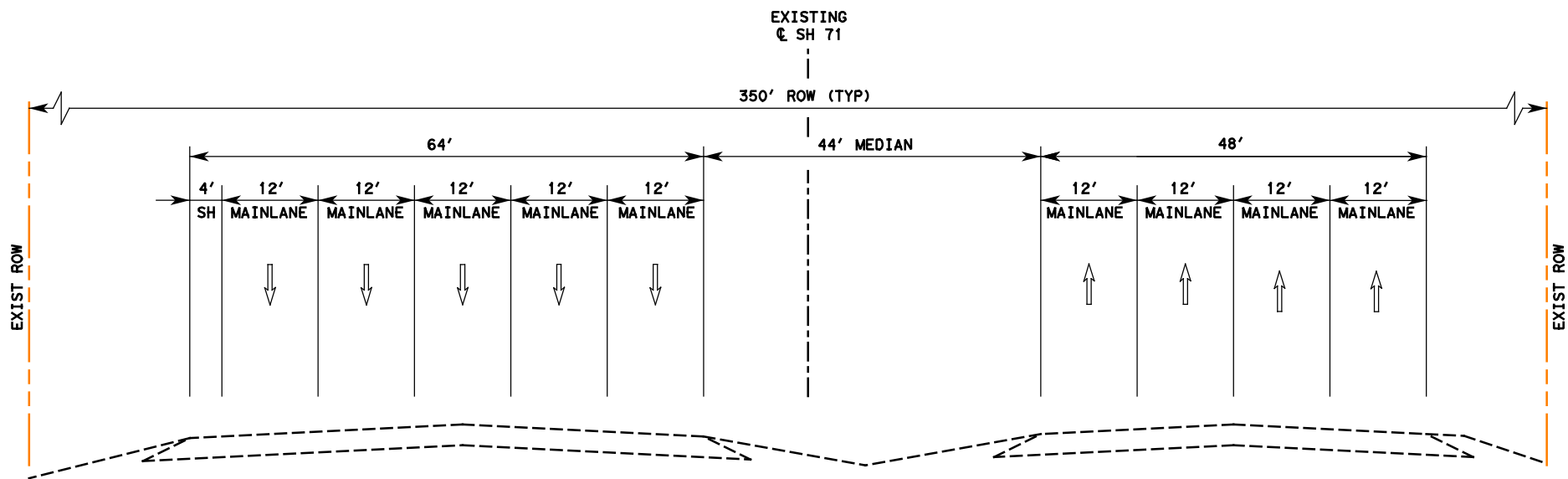


EXCEPTIONS:
EQUATIONS:
RR X-ING'S:

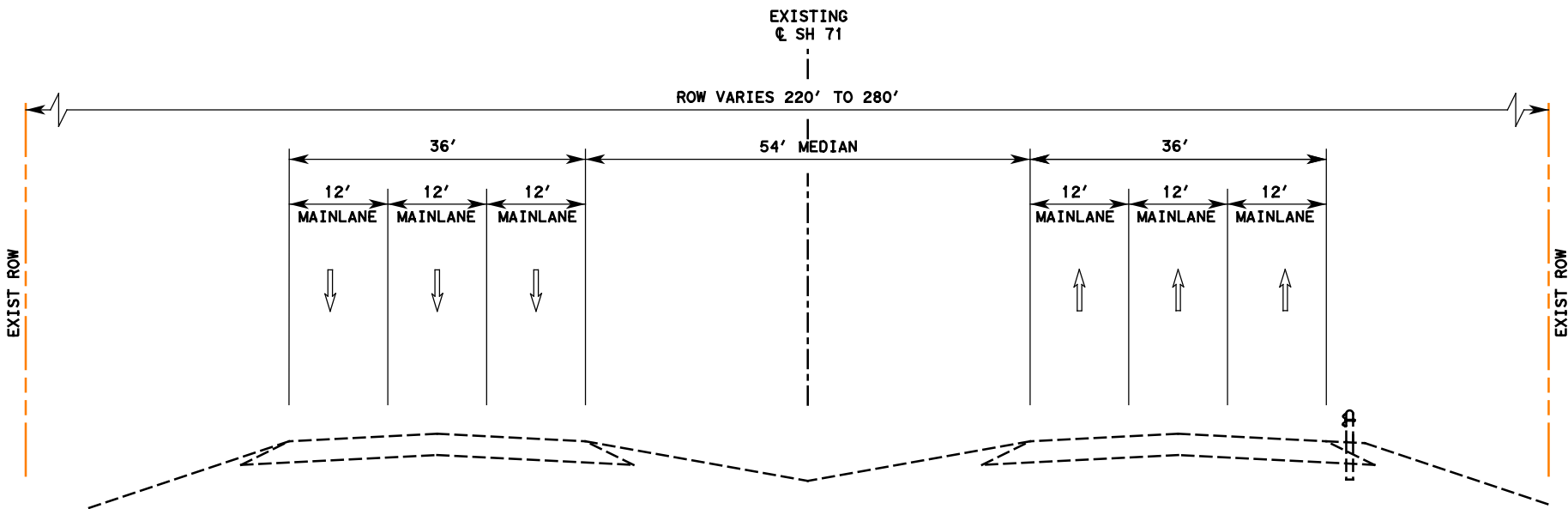
FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6		1
STATE	STATE DIST.	COUNTY
TEXAS		TRAVIS
CONT.	SECT.	JOB HIGHWAY NO.
		SH 71

ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
SH 71 GENERAL PURPOSE LANES WEST OF SPIRIT OF TX BLVD. AND BETWEEN PRES. BLVD. AND FM 973	60 MPH ¹	PRINCIPAL ARTERIAL / SUBURBAN
SH 71 GENERAL PURPOSE LANES BETWEEN SPIRIT OF TX BLVD AND PRES. BLVD.	60 MPH ¹	URBAN PRINCIPAL ARTERIAL / FREEWAY
SH 71 GENERAL PURPOSE LANES WEST OF FM 973 TO EAST OF FM 973	50 MPH	URBAN MINOR ARTERIAL
SH 71 TOLL LANES FROM TERRY LANE TO EAST SH 130	60 MPH	URBAN PRINCIPAL ARTERIAL / FREEWAY
RAMPS	50 MPH ²	
SH 71 TOLL LANES EAST TERMINUS TRANSITION	60 MPH	PRINCIPAL ARTERIAL / URBAN FREEWAY
SH 71 GENERAL PURPOSE LANES EAST TERMINUS TRANSITION	50 MPH	URBAN MINOR ARTERIAL
U-TURN PRESIDENTIAL BLVD	15 MPH	URBAN LOW SPEED
FM 973	50 MPH ³	SUBURBAN MAJOR ARTERIAL

- NOTES:
1. VERTICAL ALIGNMENT DESIGN SPEED OF 50 MPH IS ACCEPTABLE FROM STATION 11051+00 TO 11083+00
 2. VERTICAL ALIGNMENT DESIGN SPEED OF 45 MPH IS ACCEPTABLE FOR WB PRESIDENTIAL ENTRANCE RAMP
 3. 15 ON U-TURNS



EXISTING TYPICAL SECTION
SH 71 BETWEEN BRANDT DR AND THORNBERRY RD



EXISTING TYPICAL SECTION
SH 71 EAST OF PRESIDENTIAL BLVD

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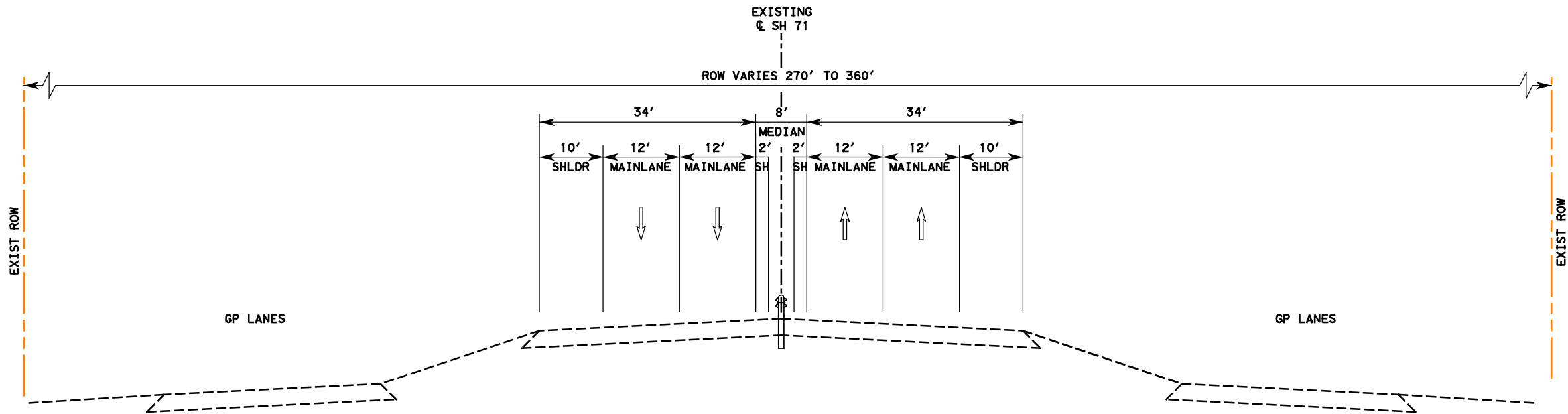
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SH 71
TYPICAL
SECTIONS



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TBPE Firm No. 2614

Texas Department of Transportation			
SHEET 1 OF 5			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
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STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
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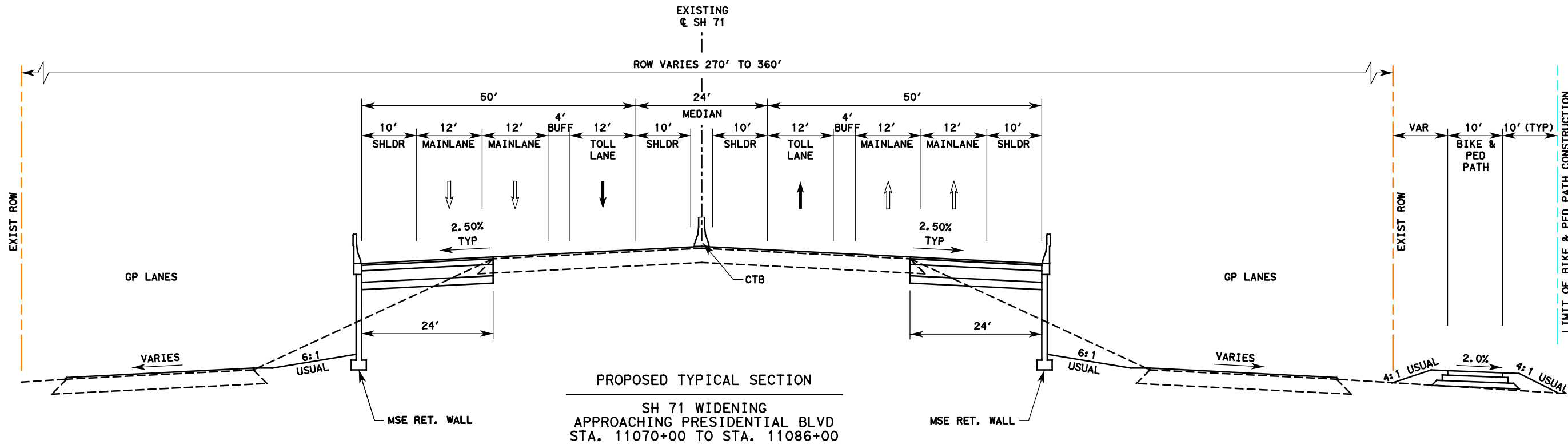
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TYPICAL
SECTIONS



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& Newnam, Inc.**
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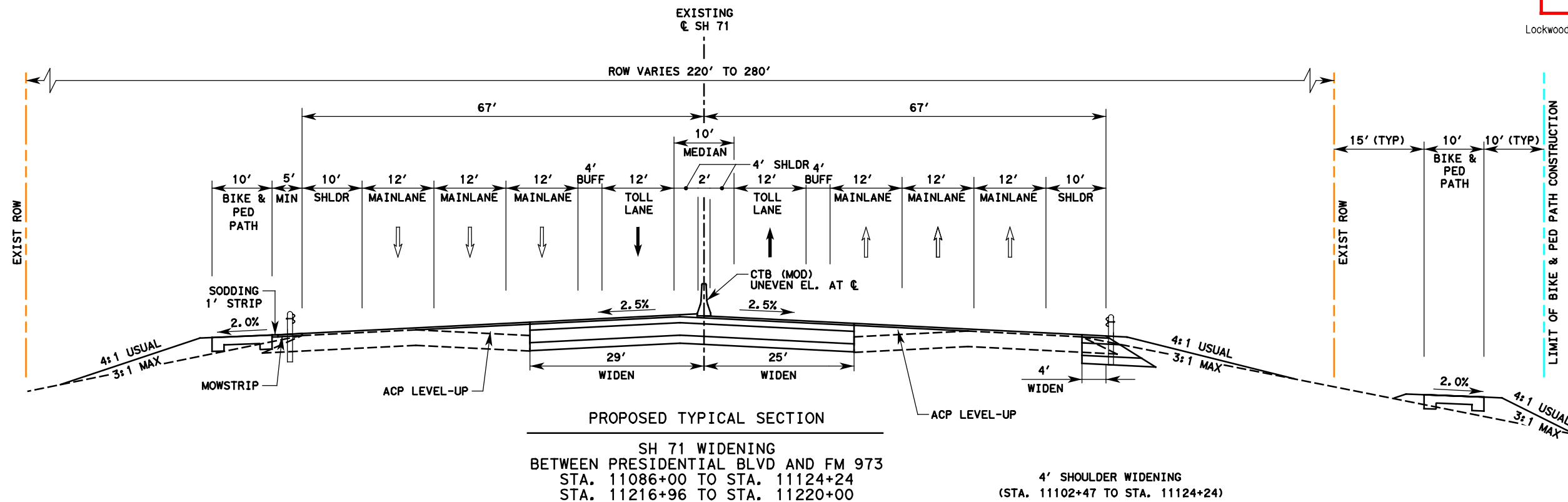
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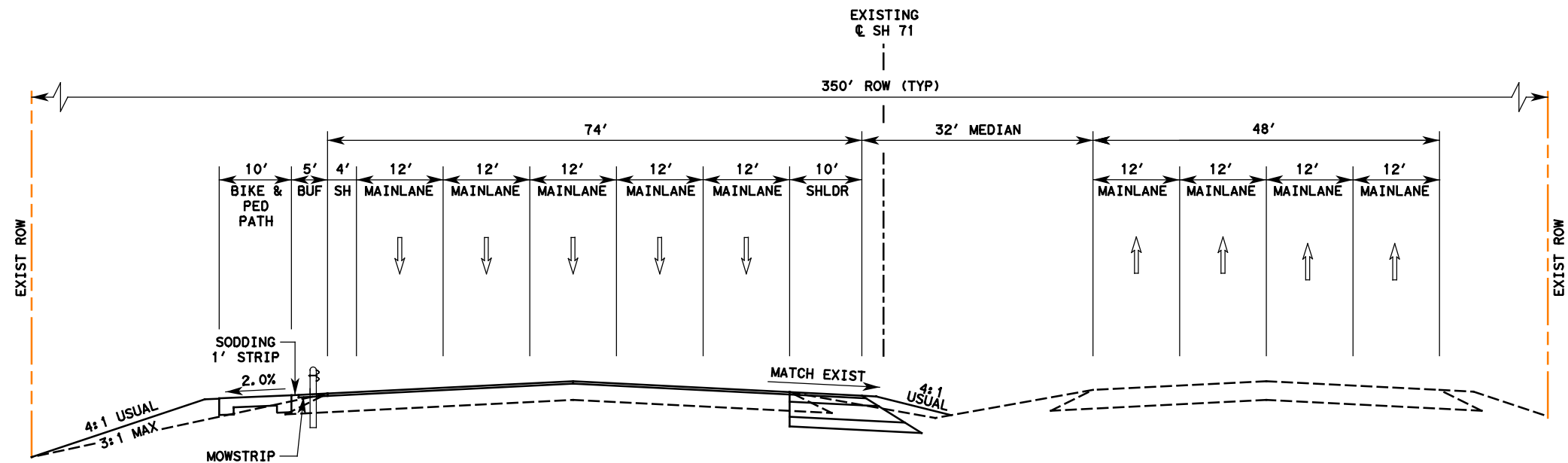


SH 71
TYPICAL
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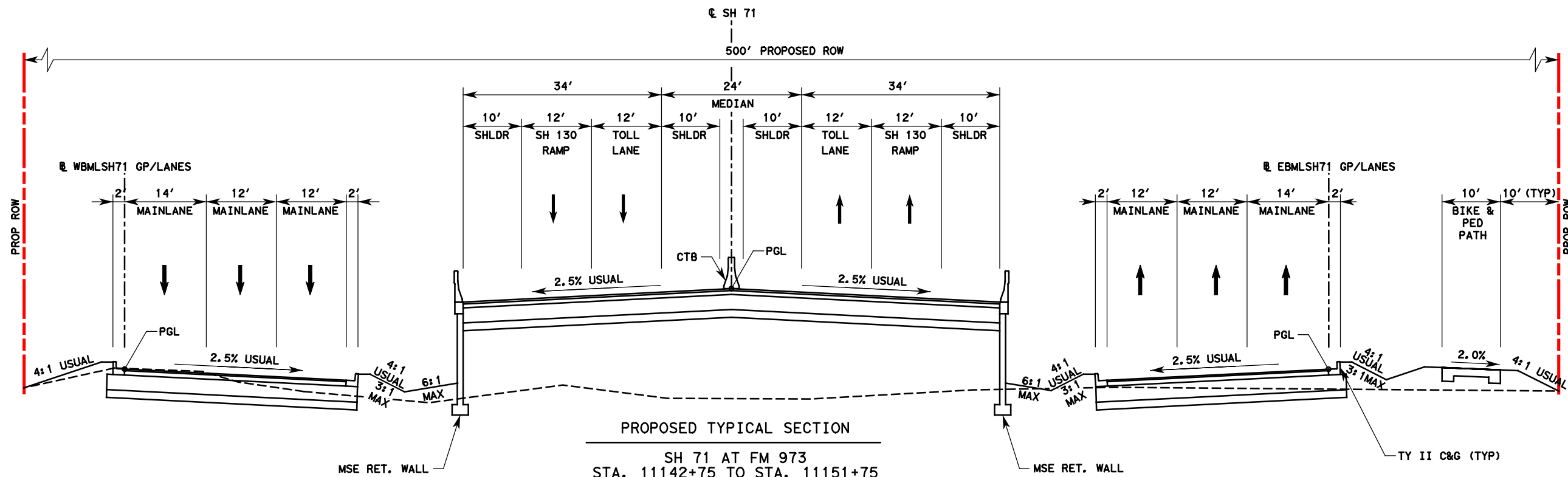
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STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
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PROPOSED TYPICAL SECTION
SH 71 WIDENING
BETWEEN BRANDT DR AND SPIRIT OF TEXAS
STA. 11024+23 TO STA. 11070+00

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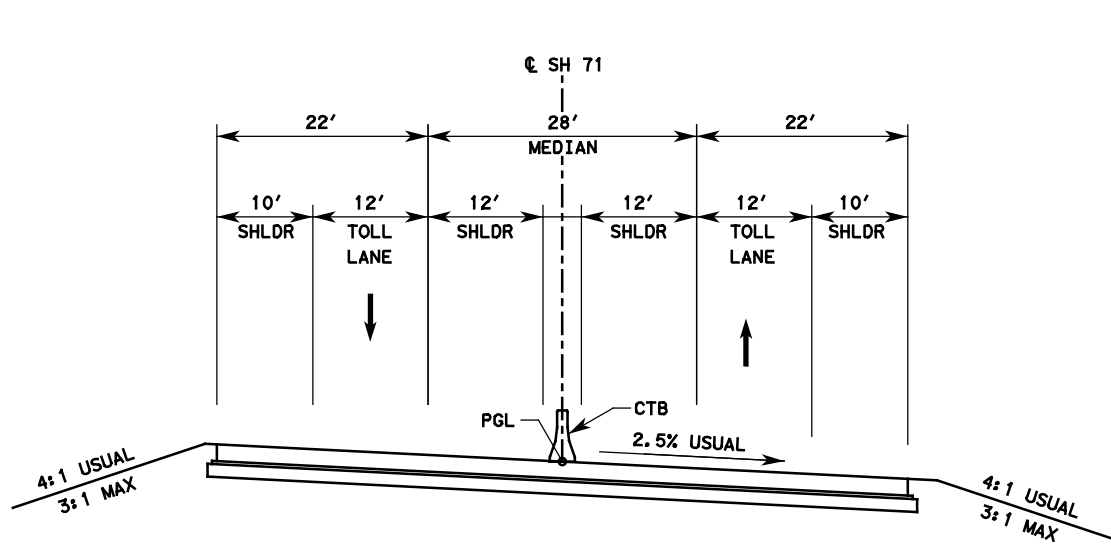


PROPOSED TYPICAL SECTION
SH 71 AT FM 973
STA. 11142+75 TO STA. 11151+75

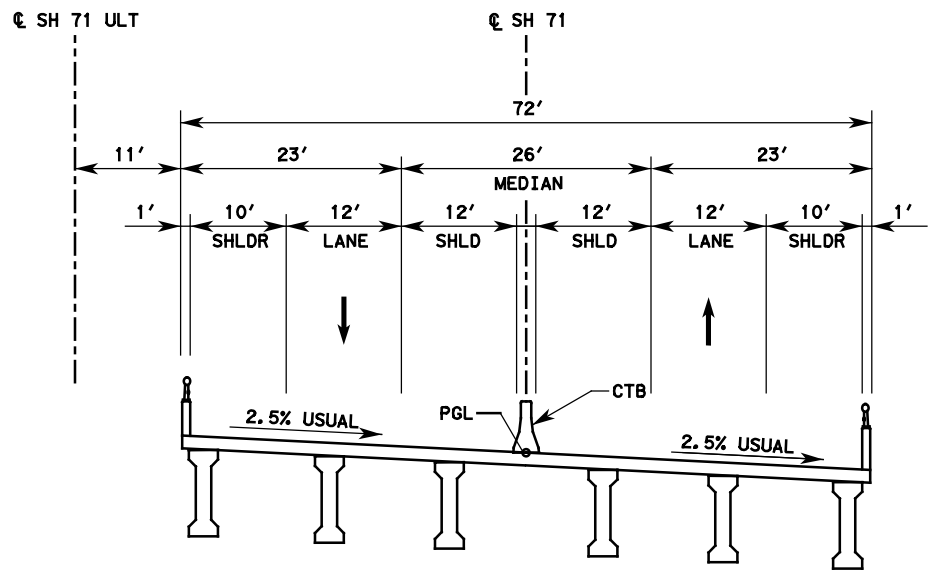
SH 71
TYPICAL
SECTIONS



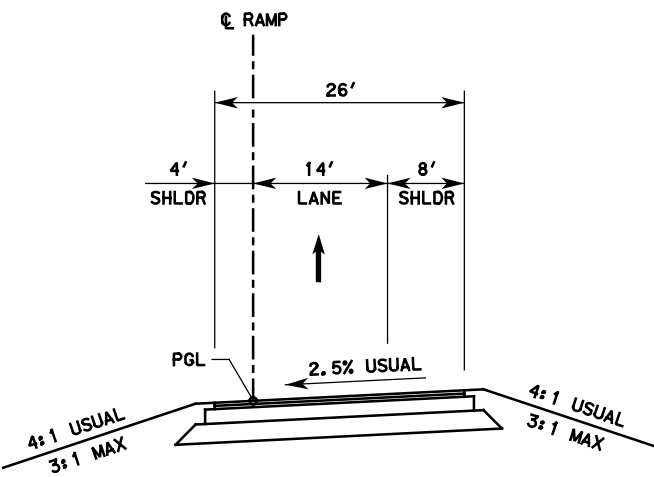
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SHEET 4 OF 5			
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STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
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PROPOSED TYPICAL SECTION
SH 71 EAST OF FM 973
STA. 11166+78 TO STA. 11187+97



PROPOSED TYPICAL SECTION
SH 71 AT SH 130
STA. 11187+94 TO STA. 11217+16

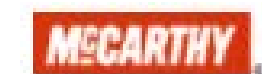


PROPOSED TYPICAL SECTION
SINGLE LANE RAMP

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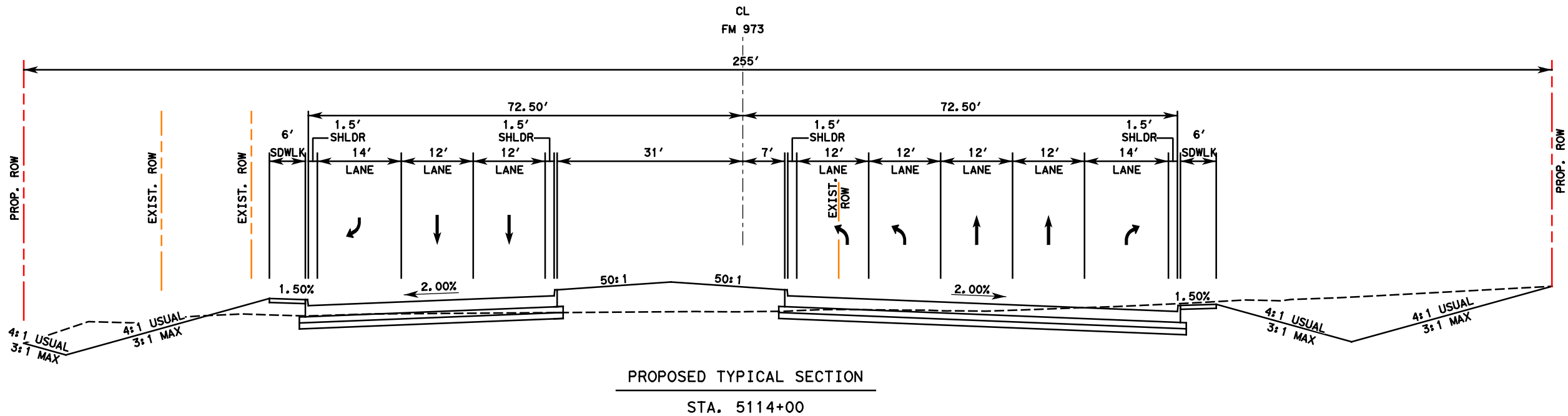
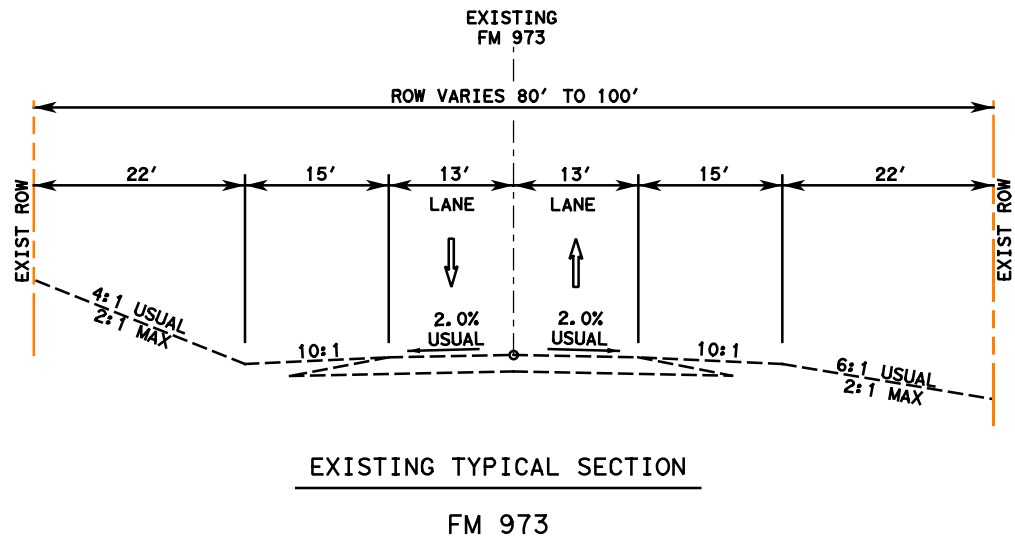
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SH 71
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FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
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STATE	STATE DIST. NO.	COUNTY	
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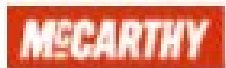
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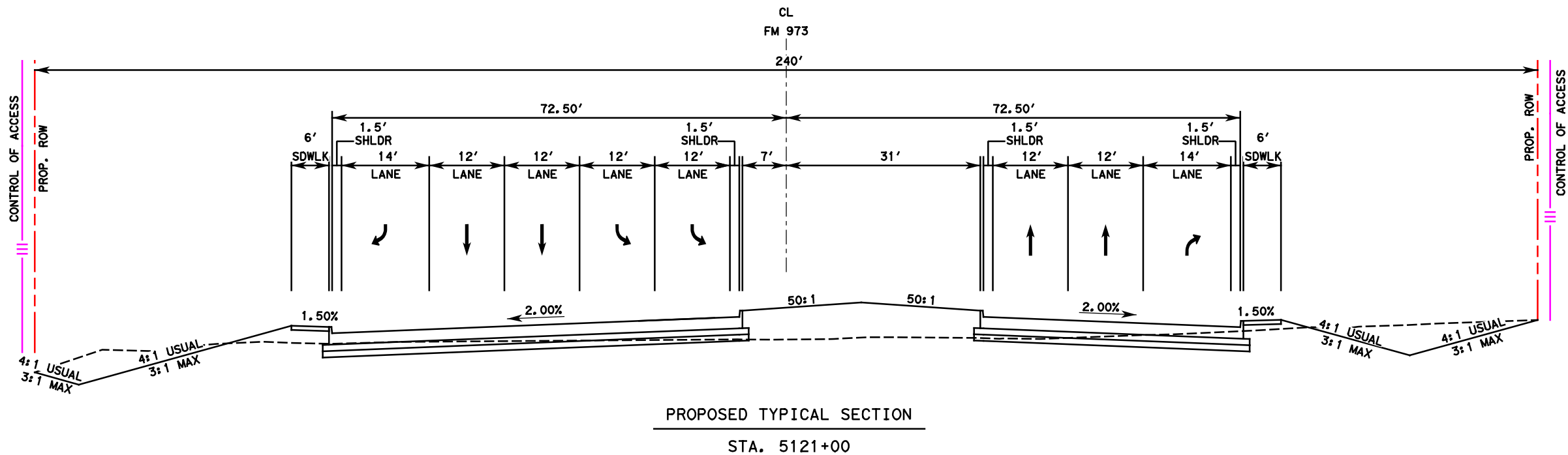
FM 973

TYPICAL
SECTIONS



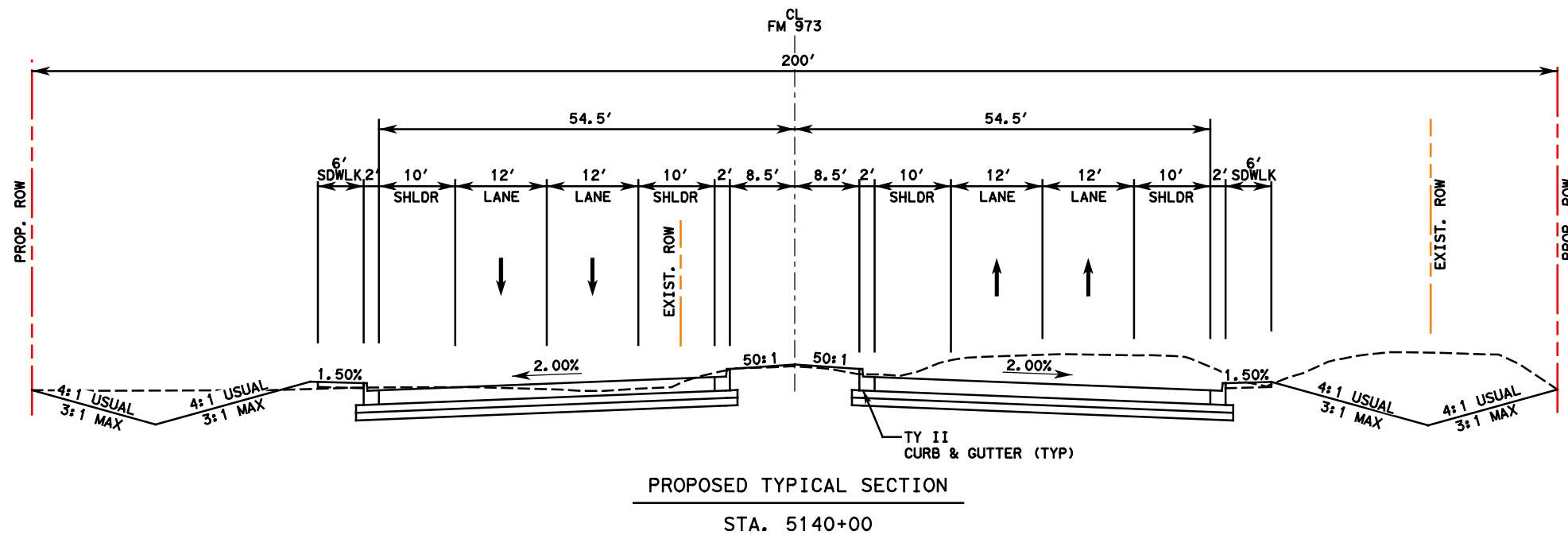
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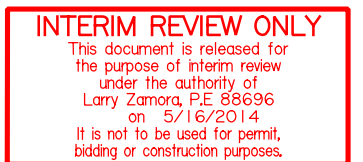


FM 973
TYPICAL
SECTIONS



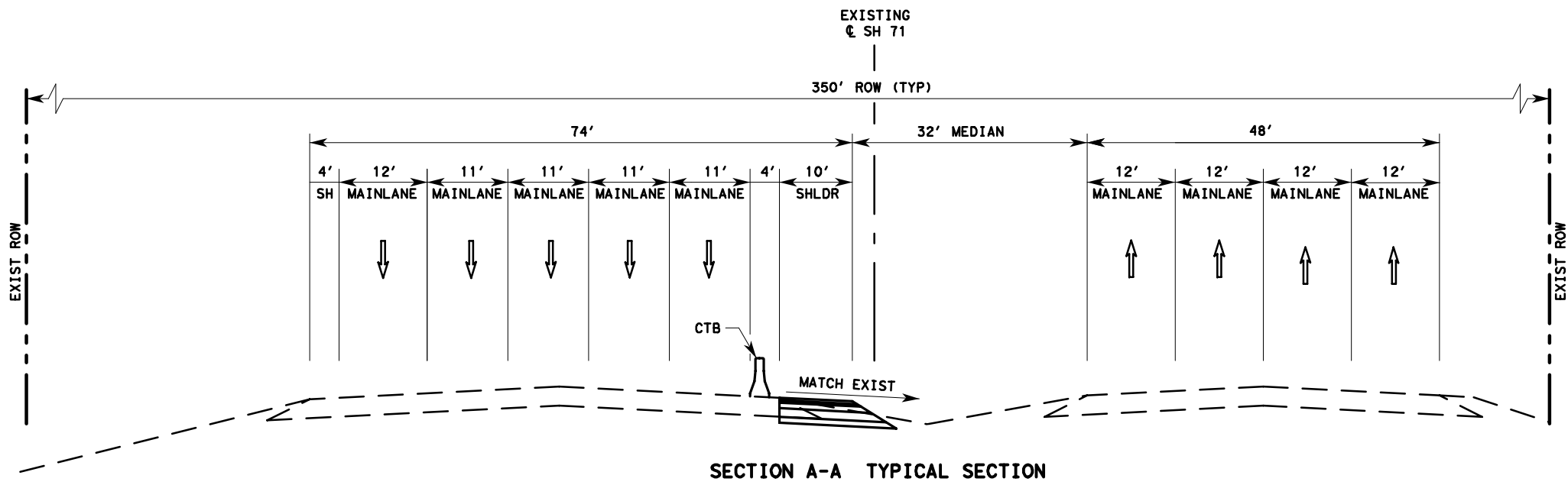
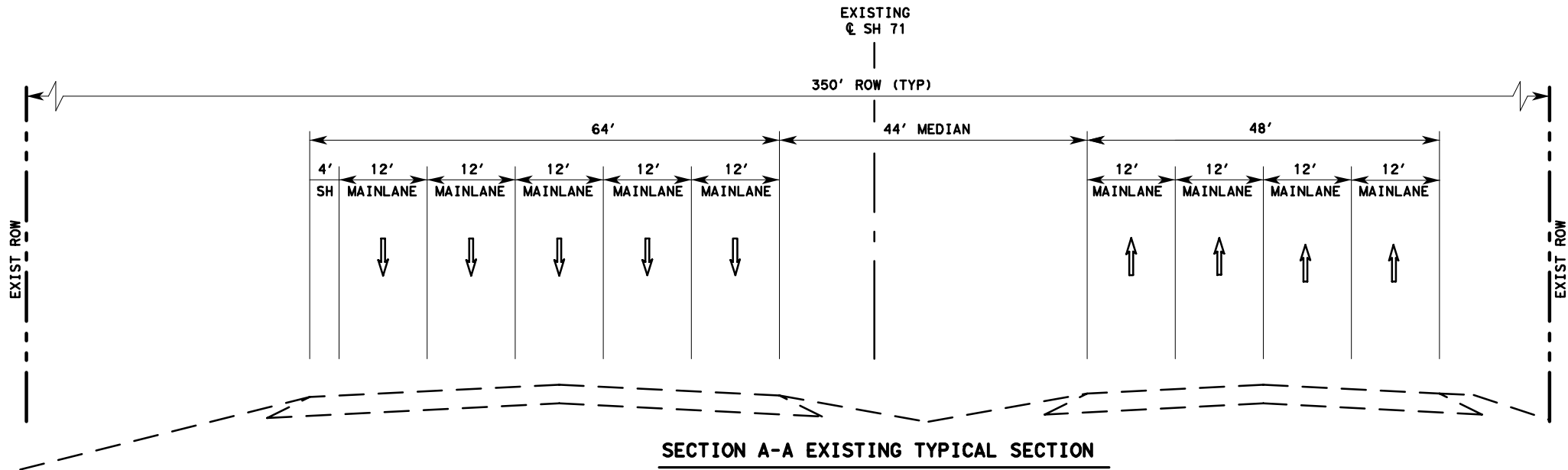
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SHEET 2 OF 3			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
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			SH 71



TYPICAL SECTIONS





PHASE I

PRELIMINARY
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or permit purposes.

Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

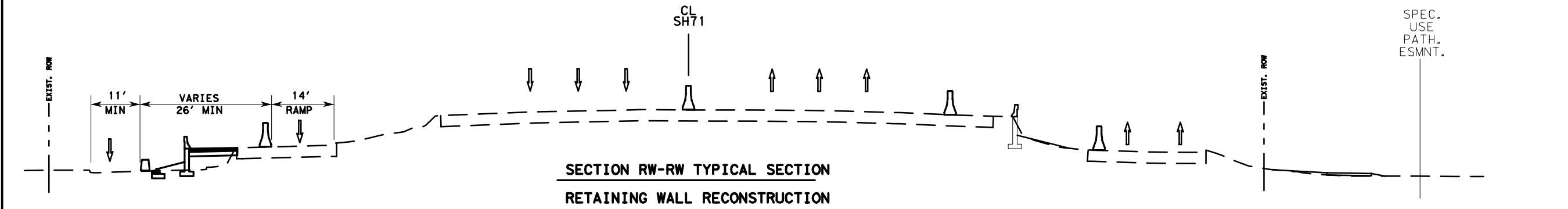
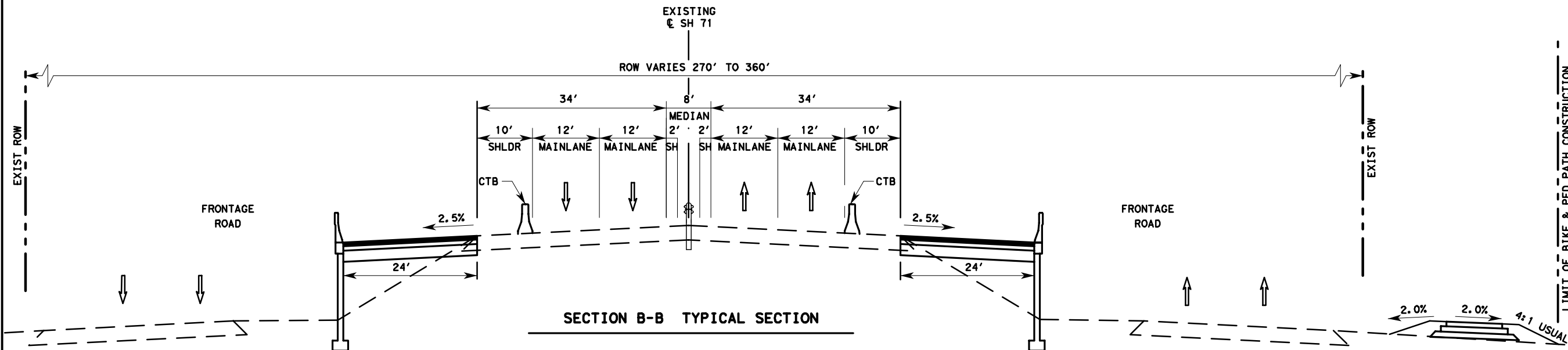
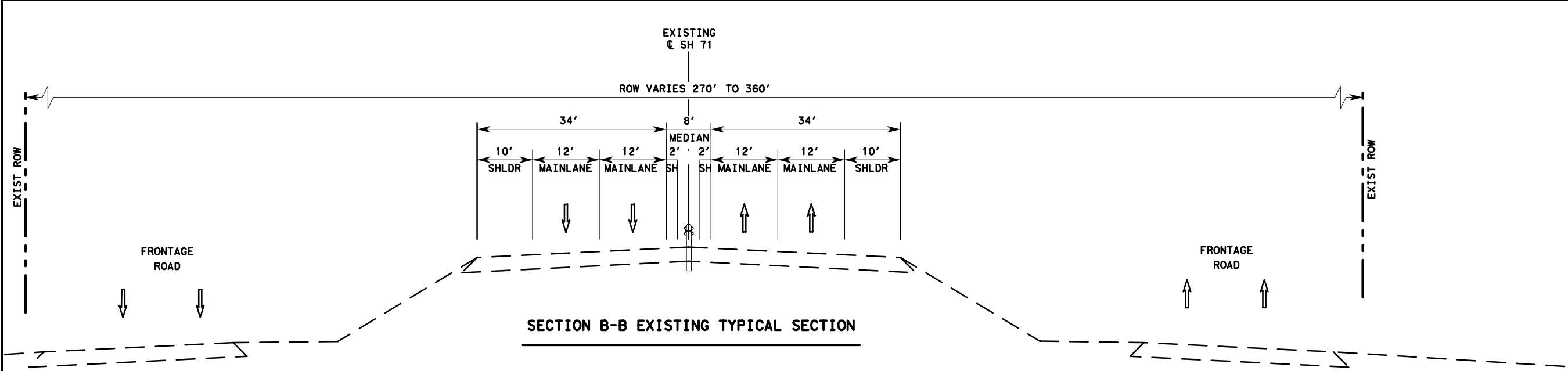
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Texas Department of Transportation

SHEET 1 OF 5

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STATE	STATE DIST. NO.	COUNTY	
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CONT.	SECT.	JOB	HIGHWAY NO.
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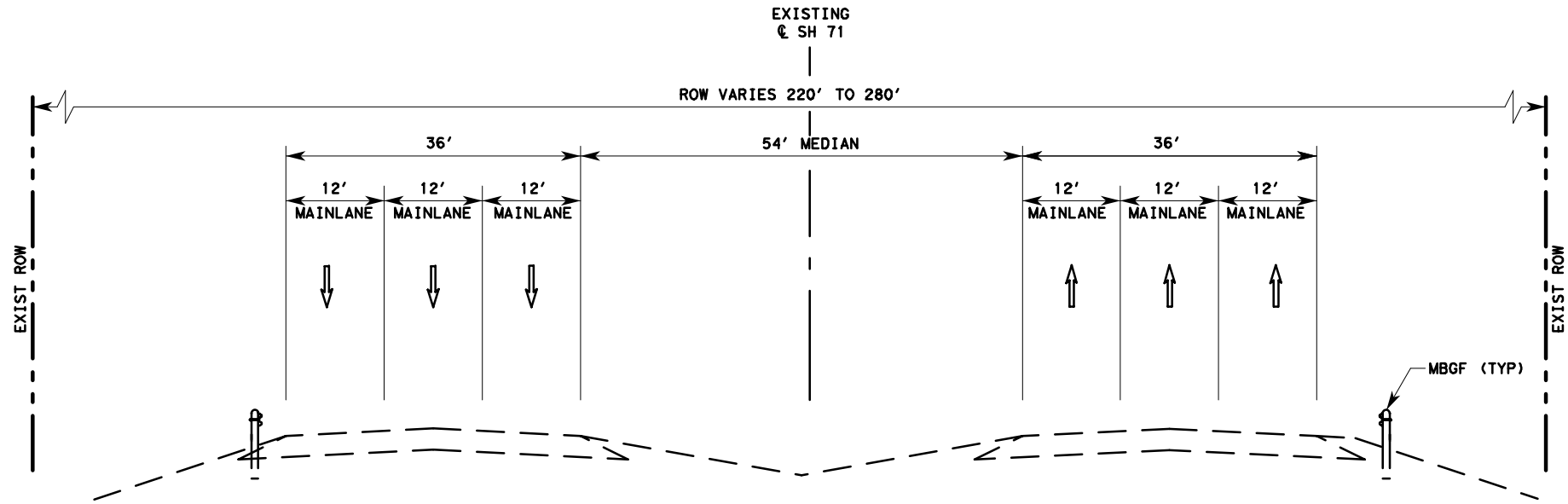


PRELIMINARY
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Not for construction, bidding,
or permit purposes.
Eng/Drawn: DENNIS K. SEAL
P.E. No. 80287 Date 5/16/2014

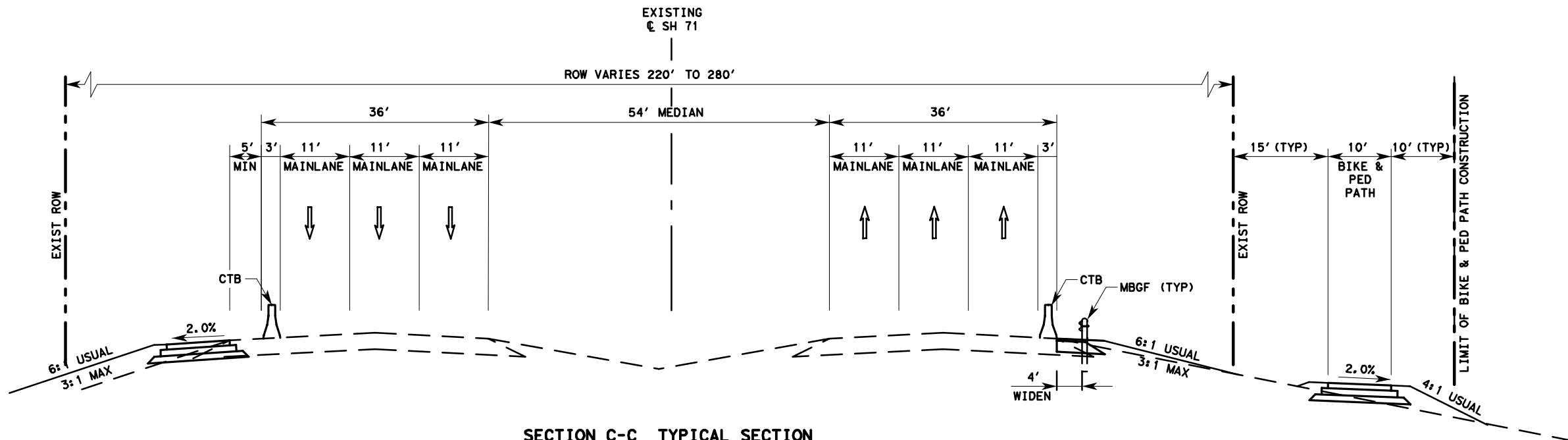
SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation			
SHEET 2 OF 5			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			11
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



SECTION C-C EXISTING TYPICAL SECTION



SECTION C-C TYPICAL SECTION
WIDEN TO OUTSIDE

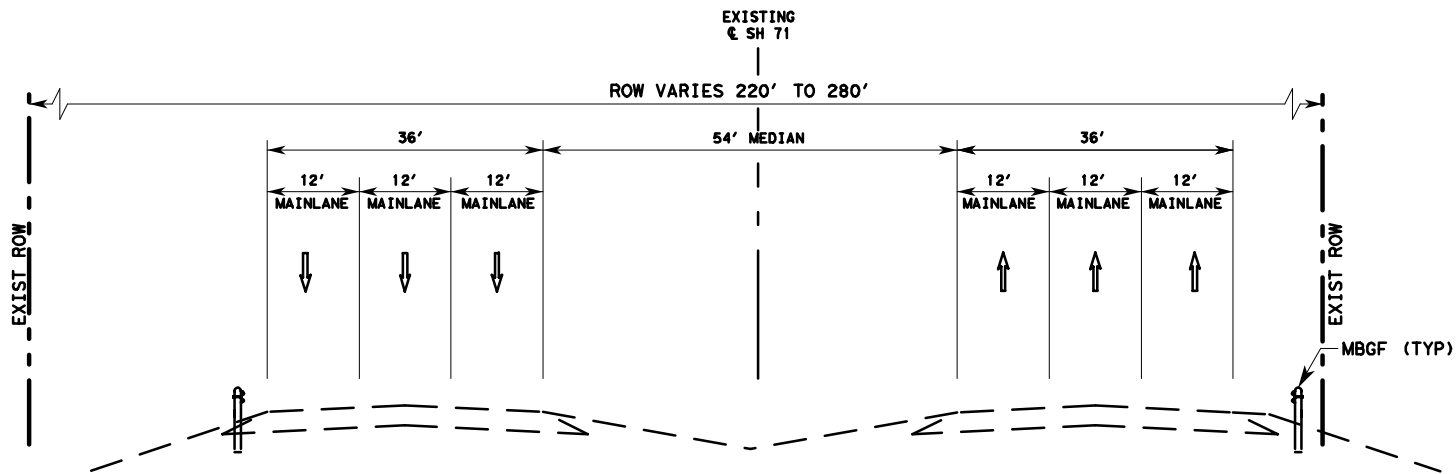
PHASE I

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Engineer: DENNIS K. SEAL
P.E. No. 80287 Date 5/16/2014

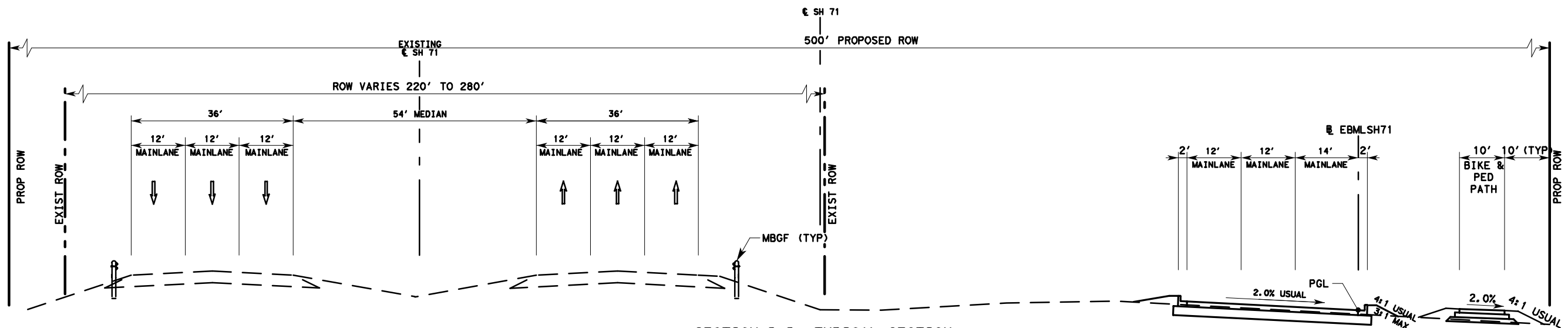
SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation			
SHEET 3 OF 5			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			12
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



SECTION D-D EXISTING TYPICAL SECTION



SECTION D-D TYPICAL SECTION
CONSTRUCT EB FRONTAGE ROAD AND
BIKE & PED PATH

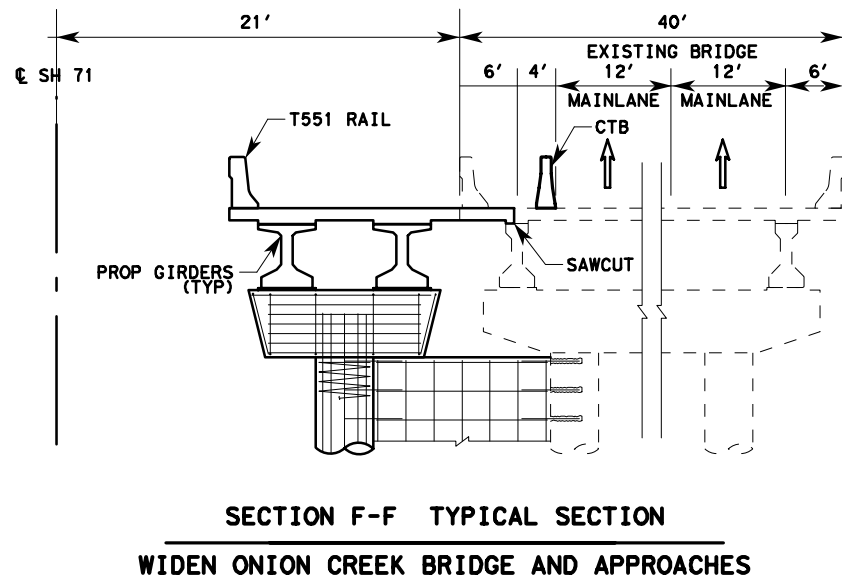
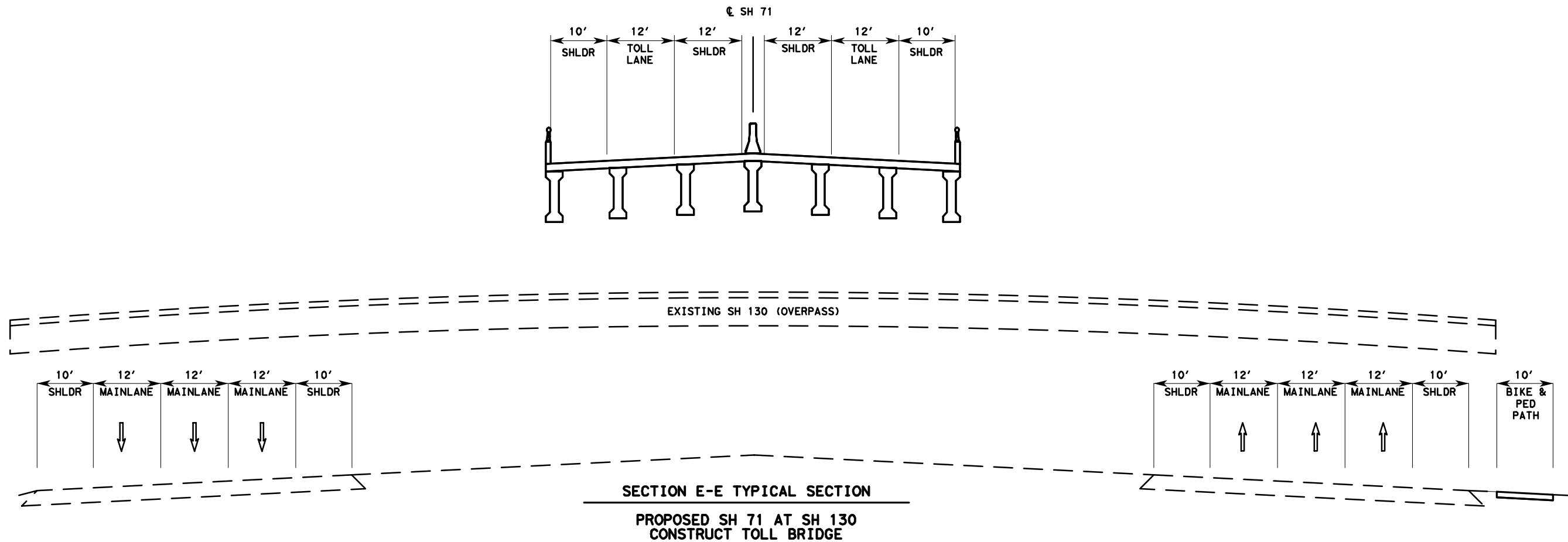
PHASE I

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Eng/Drawn: DENNIS K. SEAL
P.E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

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Texas Department of Transportation			
SHEET 4 OF 5			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			13
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



PHASE I

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Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

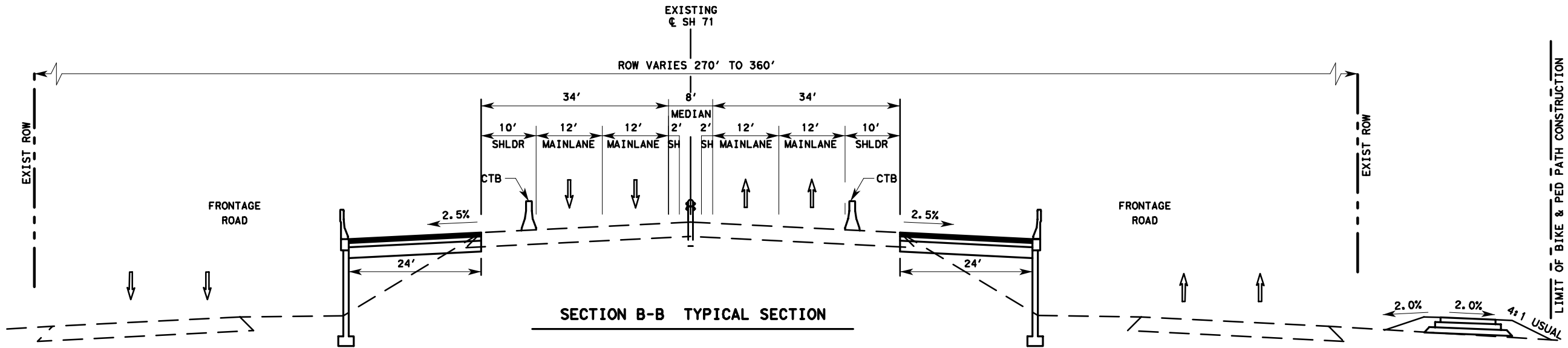
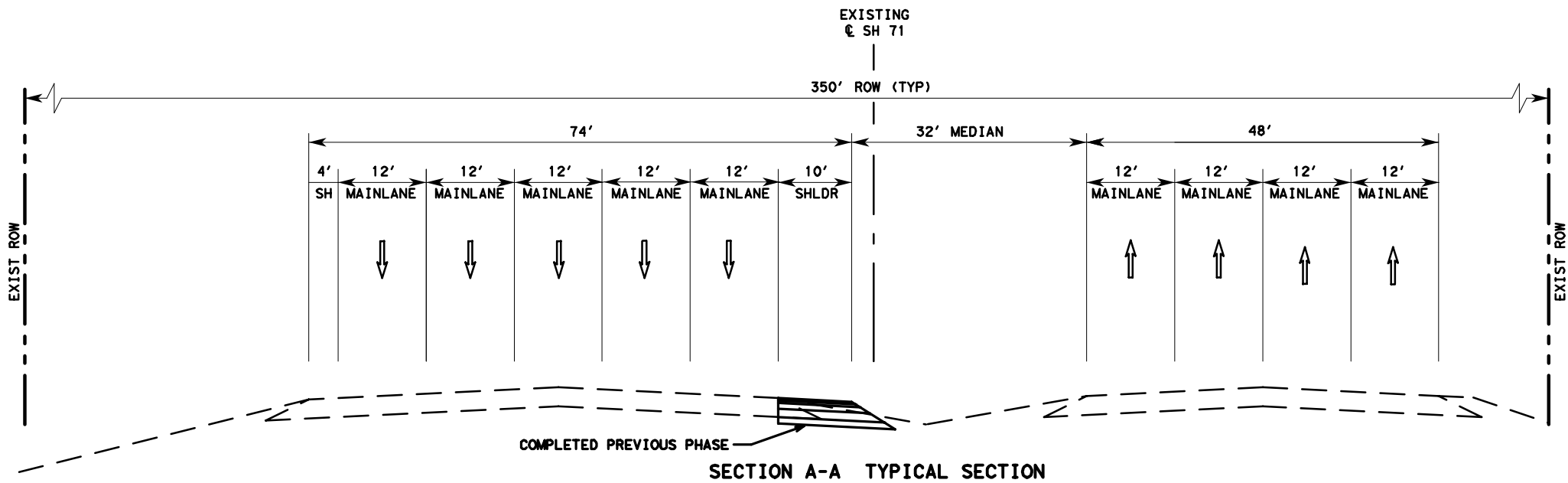
F-928

MCCARTHY

Texas Department of Transportation

SHEET 5 OF 5

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		14
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONT.	SECT.	JOB
		SH 71



PHASE 2

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Engineer: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

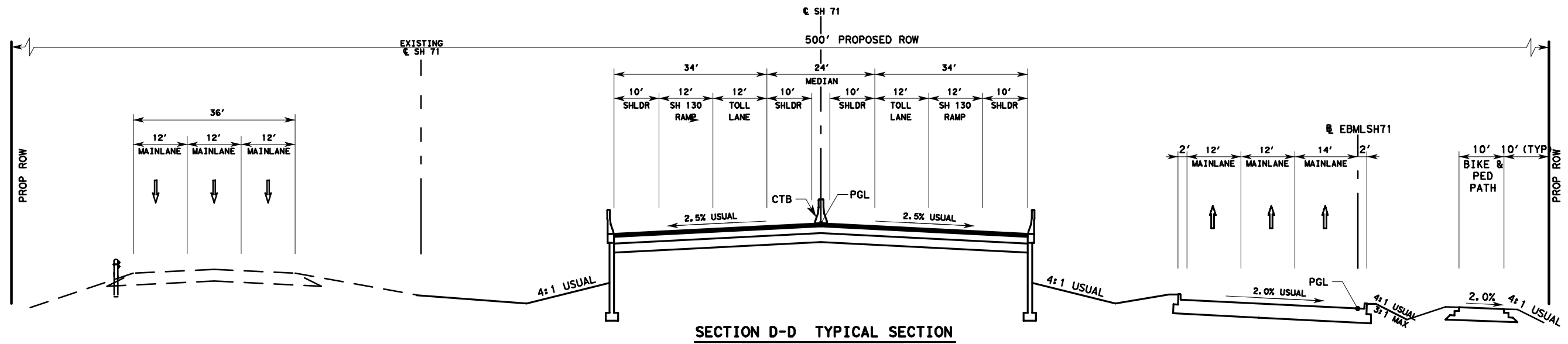
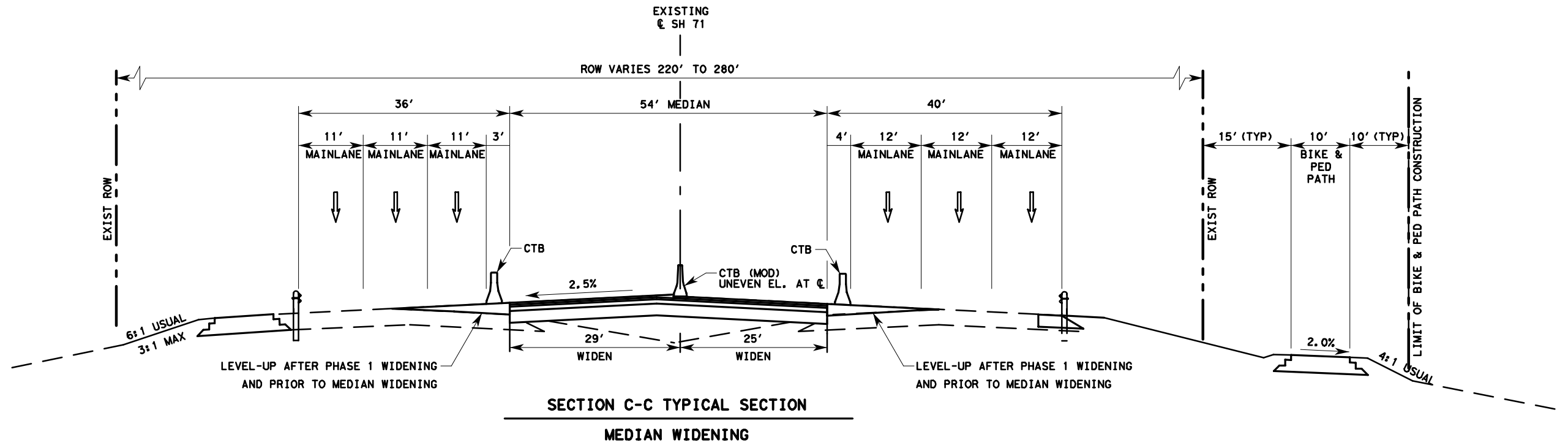
SH 71
TCP TYPICAL
SECTIONS

F-928

MCCARTHY

Texas Department of Transportation
SHEET 1 OF 3

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STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONT.	SECT.	JOB
		HIGHWAY NO.
		SH 71



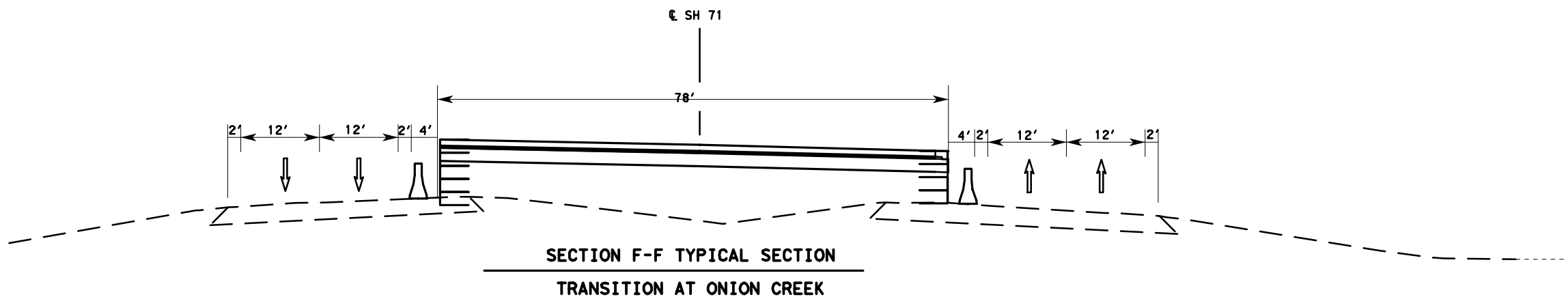
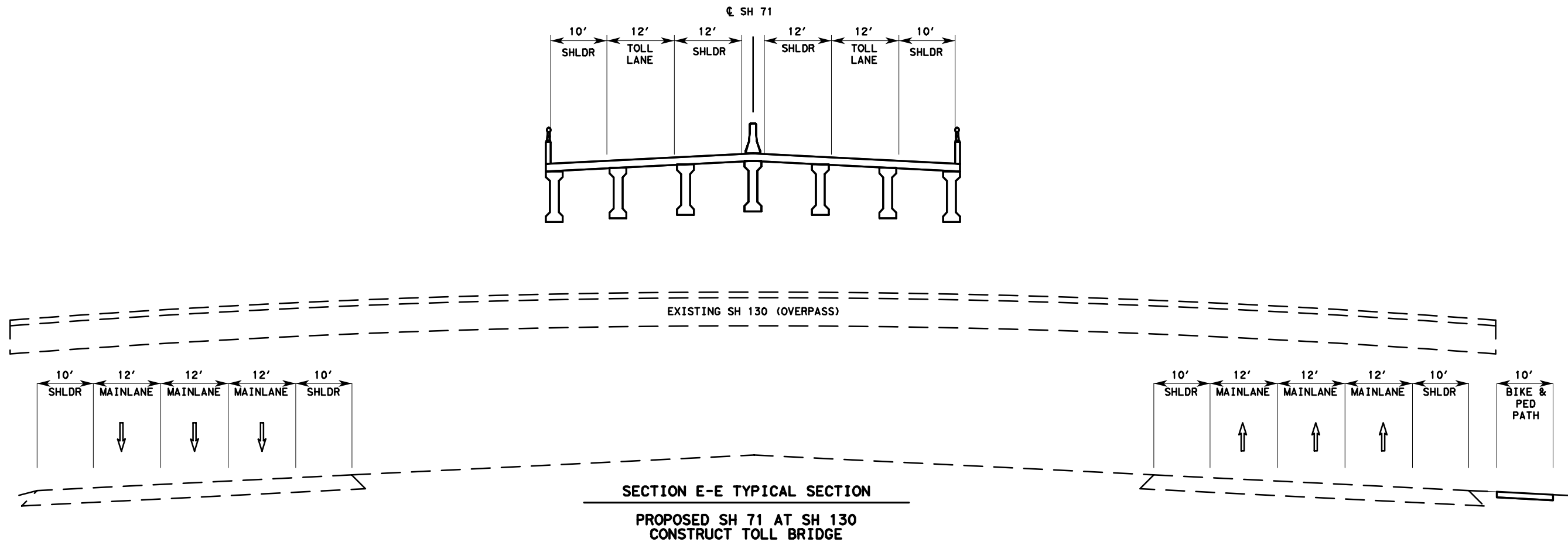
PRELIMINARY
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or permit purposes.
Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation			
SHEET 2 OF 3			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			16
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71

PHASE 2



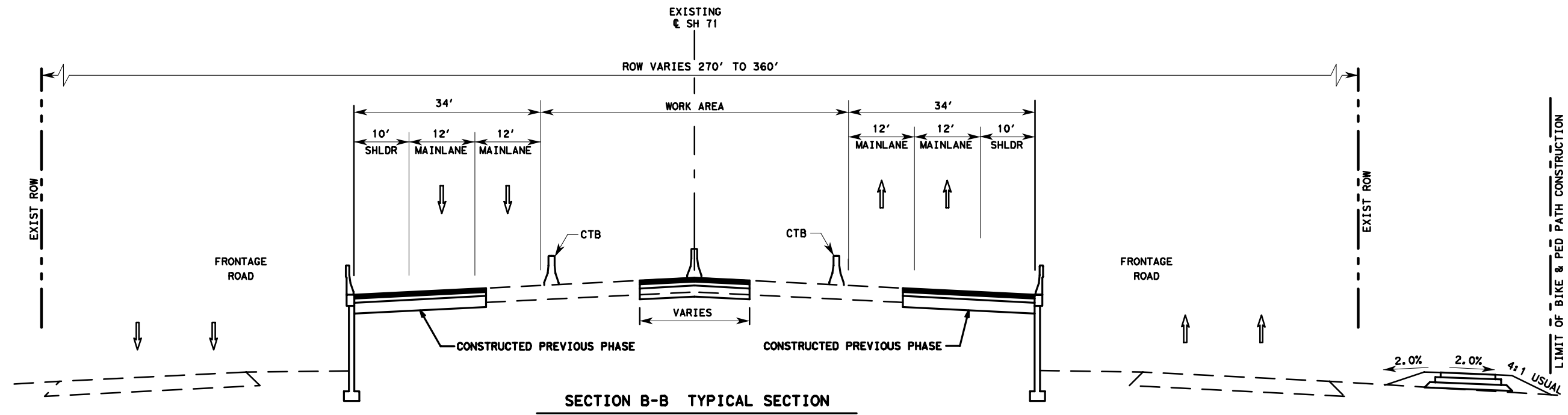
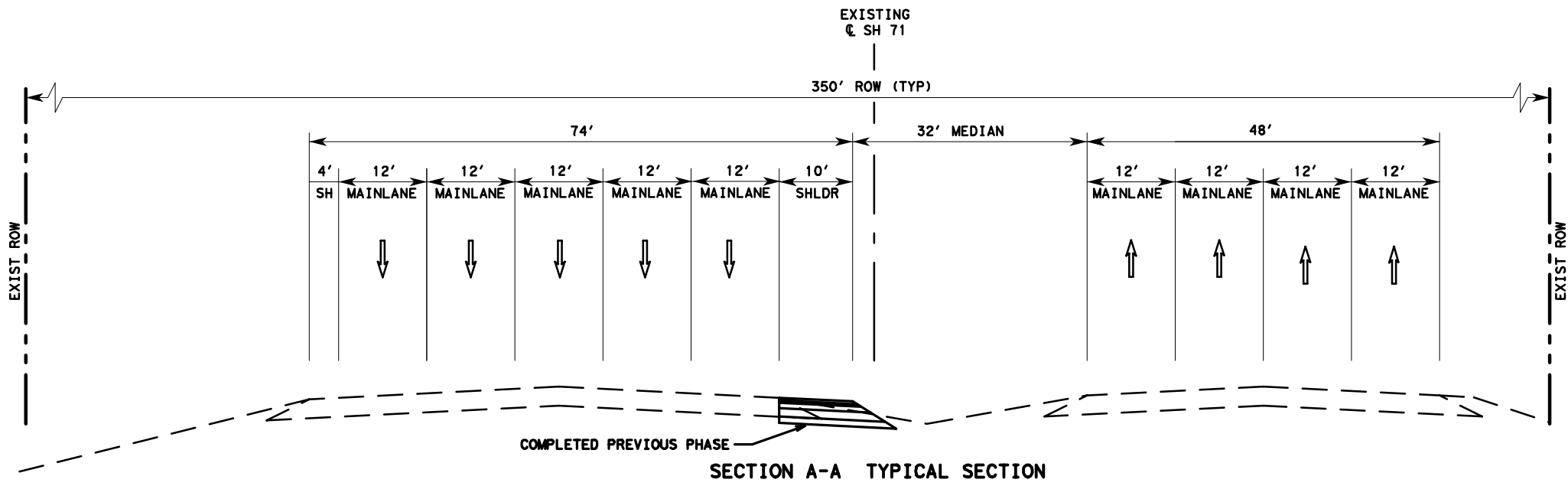
PHASE 2

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or permit purposes.
Eng/Insp. **DENNIS K. SEAL**
P. E. No. **80287** Date **5/16/2014**

**SH 71
TCP TYPICAL
SECTIONS**

MCCARTHY

Texas Department of Transportation			
SHEET 3 OF 3			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			17
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



PHASE 3

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Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

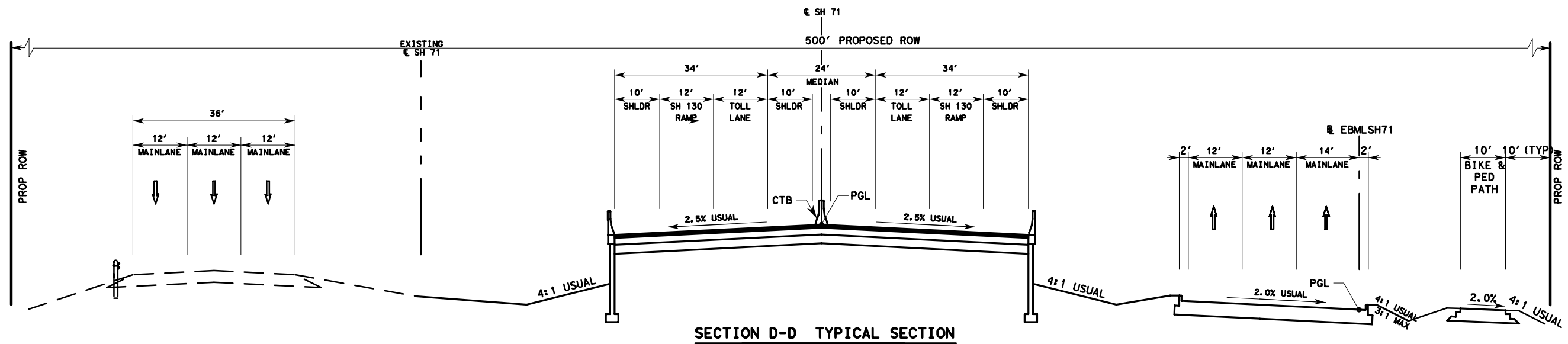
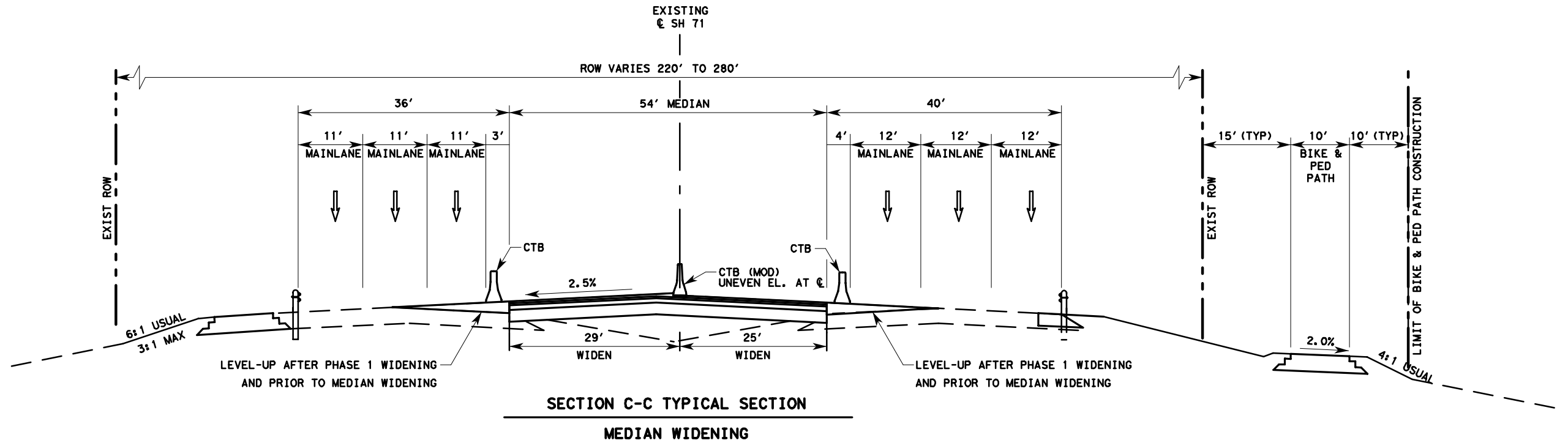
SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation

SHEET 1 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
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STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONT.	SECT.	JOB
		HIGHWAY NO.
		SH 71



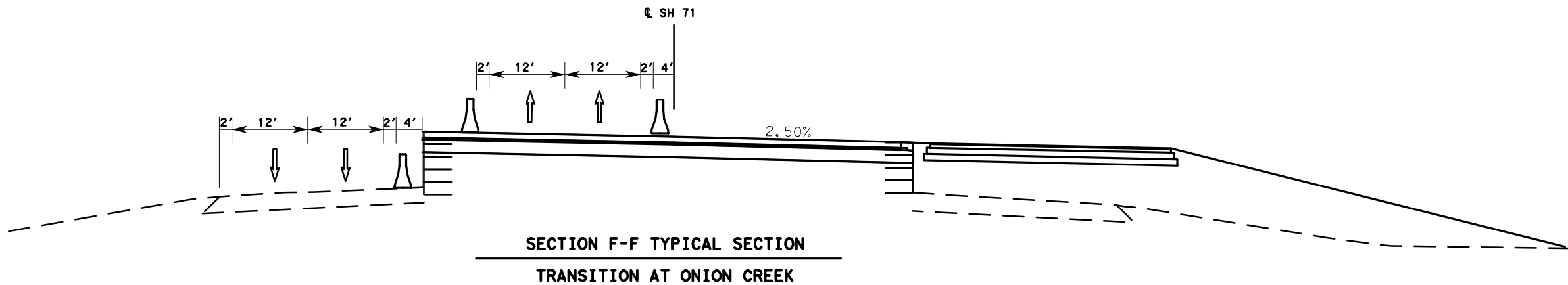
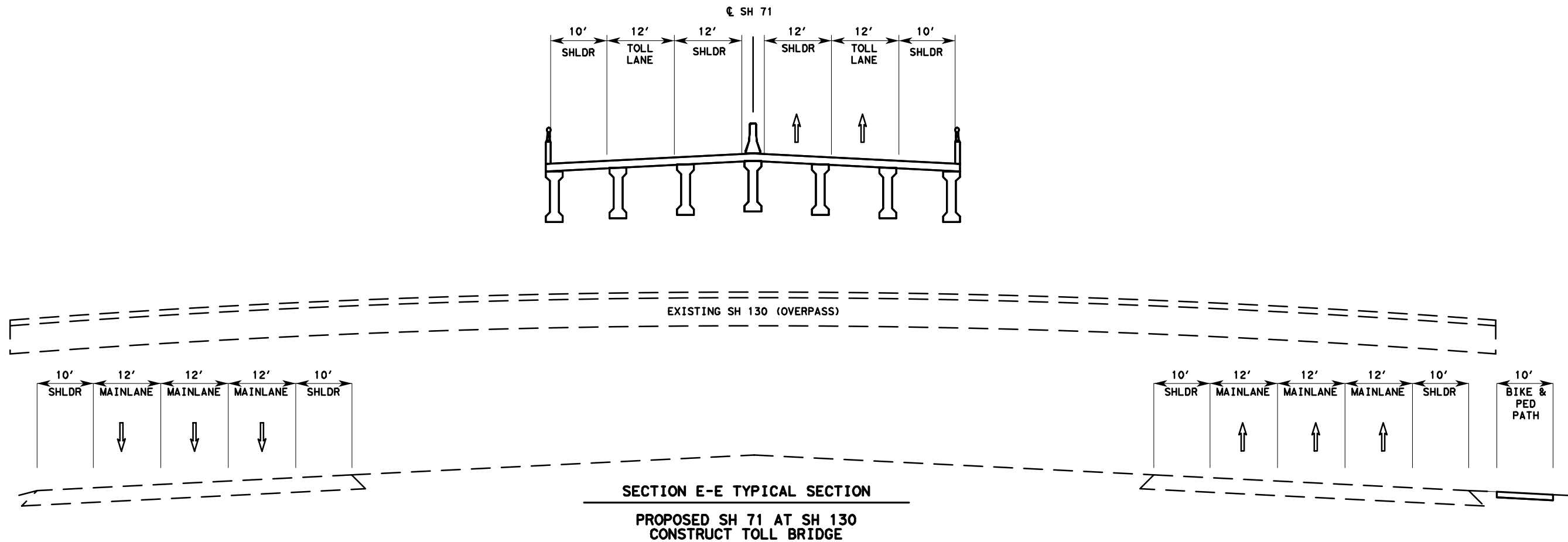
PRELIMINARY
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or permit purposes.
Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation			
SHEET 2 OF 3			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			19
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71

PHASE 3



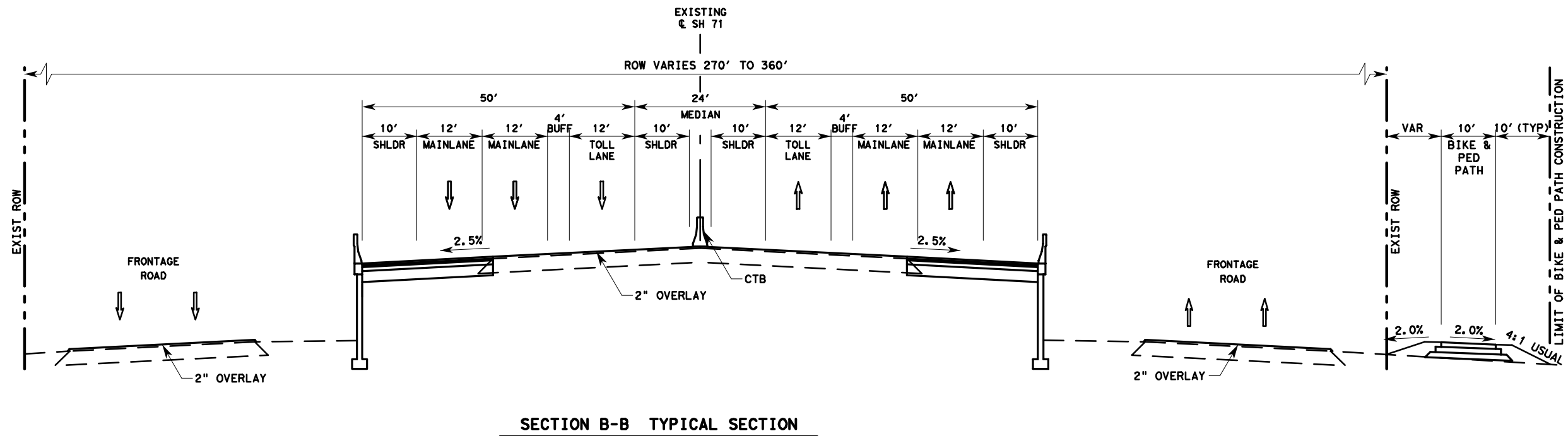
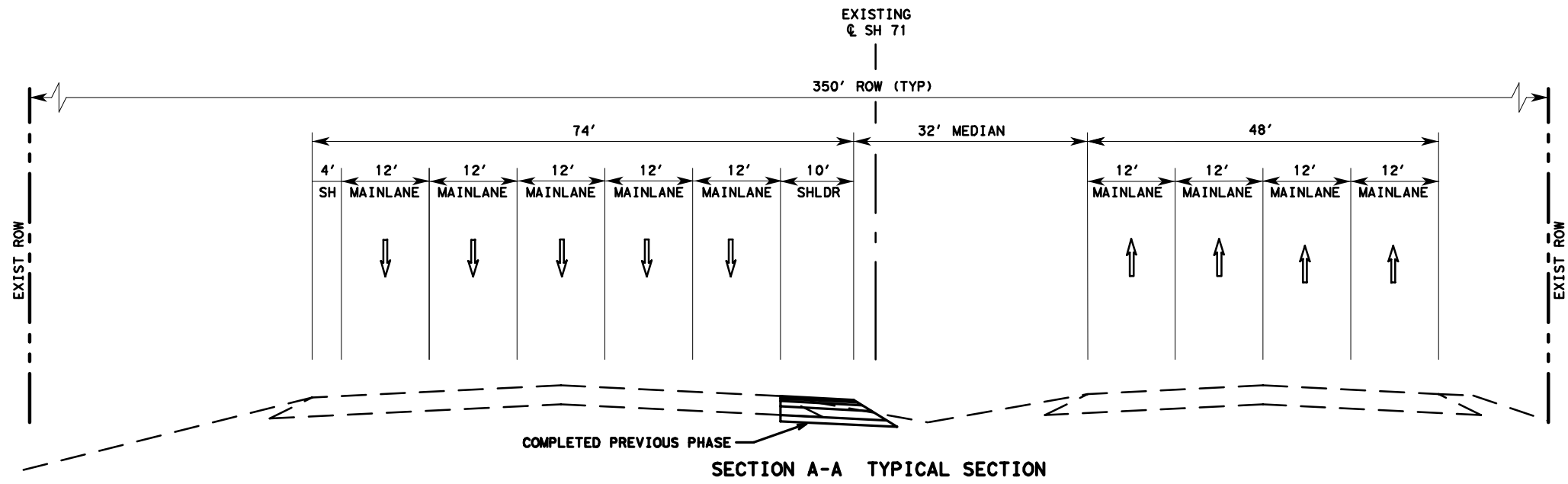
PHASE 3

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or permit purposes.
Engineer: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

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Texas Department of Transportation			
SHEET 3 OF 3			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			20
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



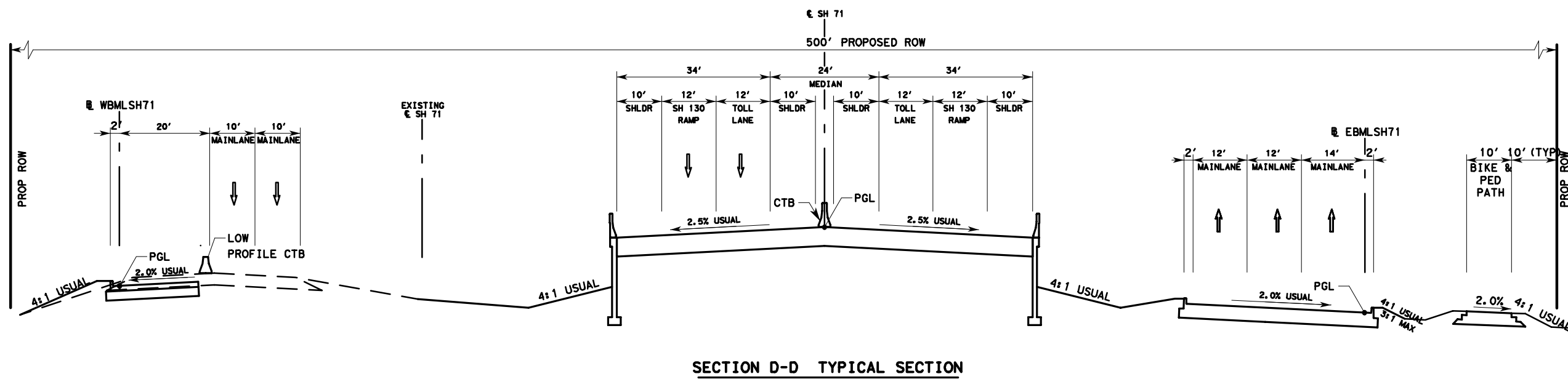
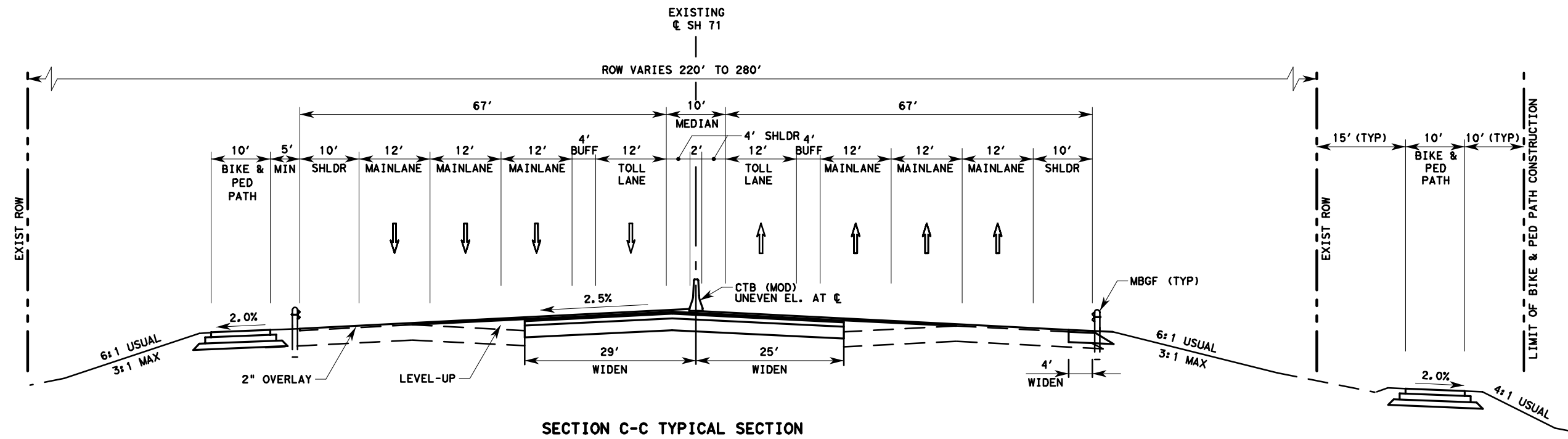
PHASE 4

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or permit purposes.
Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

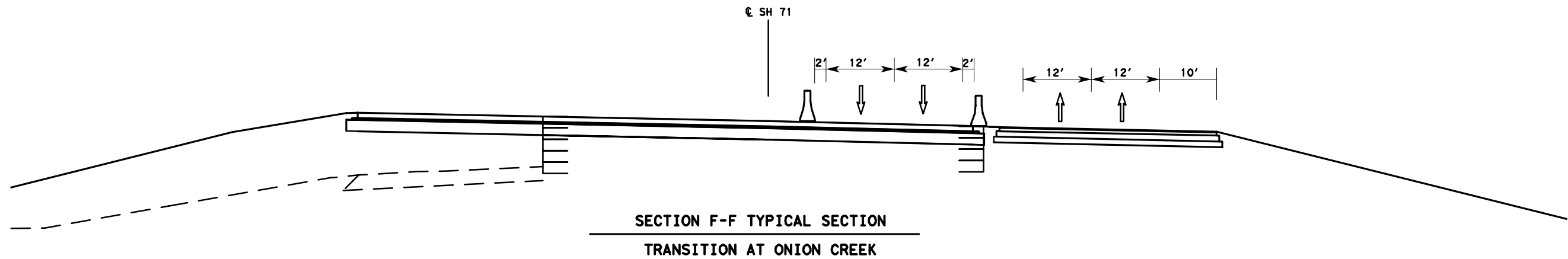
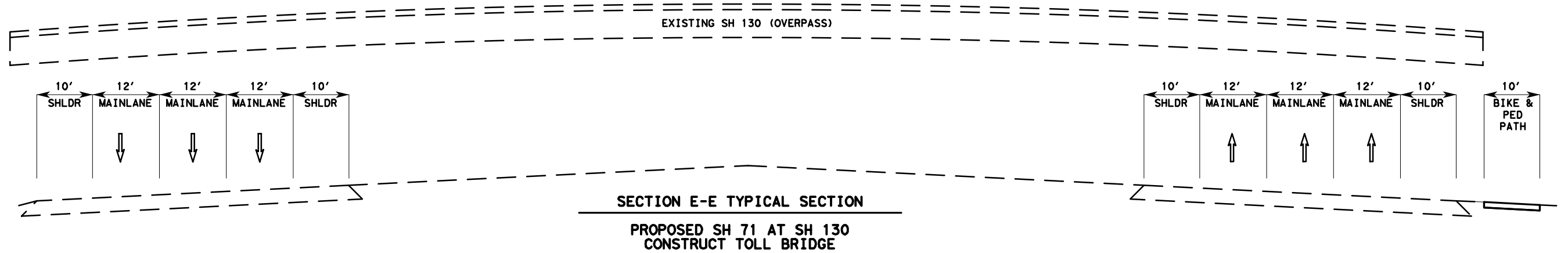
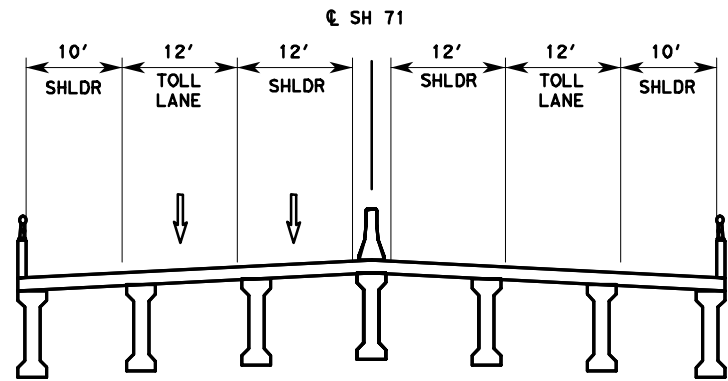
MCCARTHY

Texas Department of Transportation			
SHEET 1 OF 3			
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6			21
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



PHASE 4

PRELIMINARY FOR REVIEW ONLY Not for construction, bidding, or permit purposes.			
Engineer: DENNIS K. SEAL P. E. No. 80287 Date 5/16/2014			
SH 71 TCP TYPICAL SECTIONS			
F-920			
			
 Texas Department of Transportation			
SHEET 2 OF 3			
FED. NO. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			22
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TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



PHASE 4

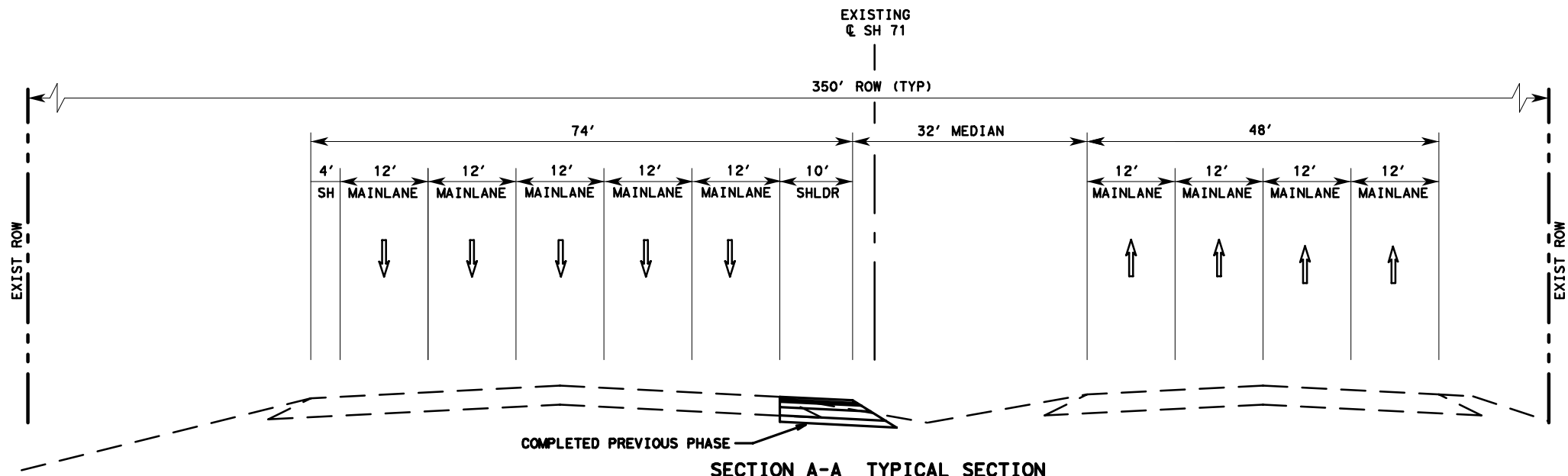
PRELIMINARY
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or permit purposes.
Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

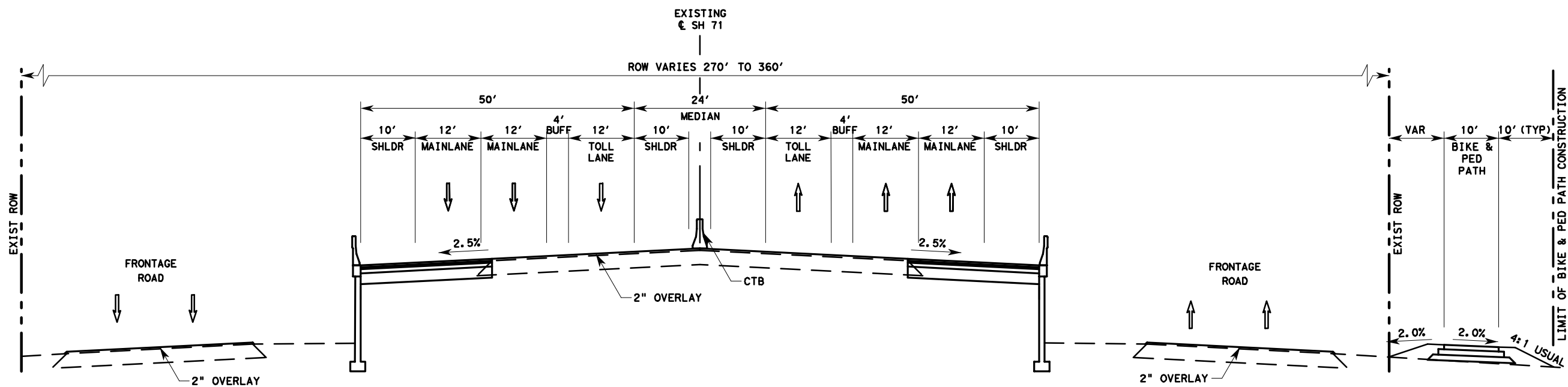
MCCARTHY

Texas Department of Transportation

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6				23
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



SECTION A-A TYPICAL SECTION



SECTION B-B TYPICAL SECTION

PHASE 5

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Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

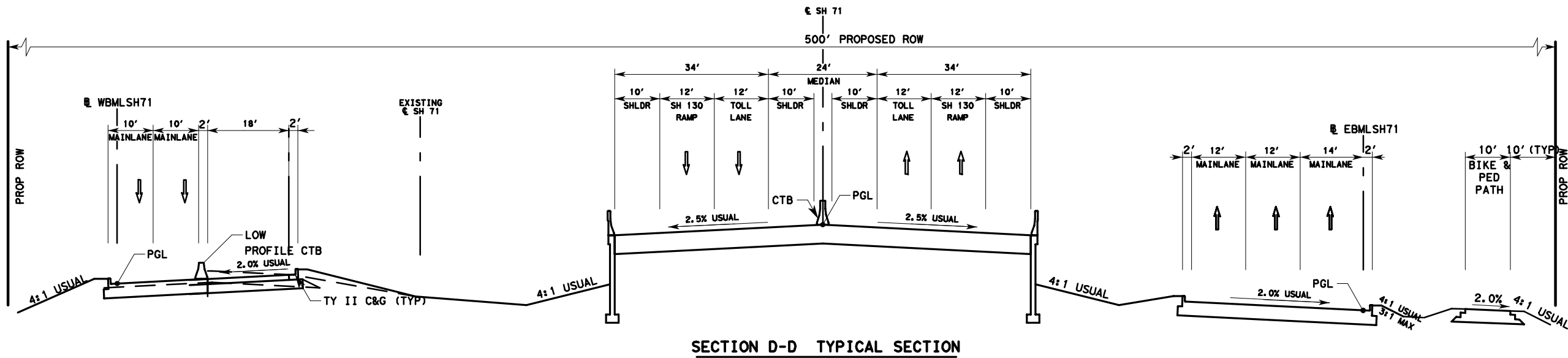
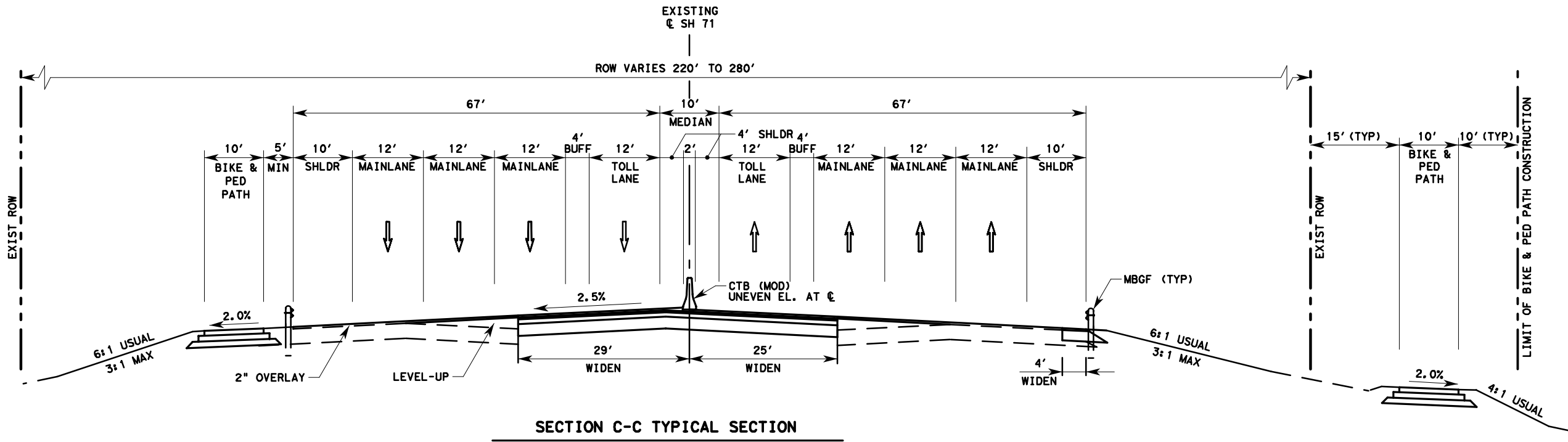
SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation

SHEET 1 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
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STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONT.	SECT.	JOB
		SH 71



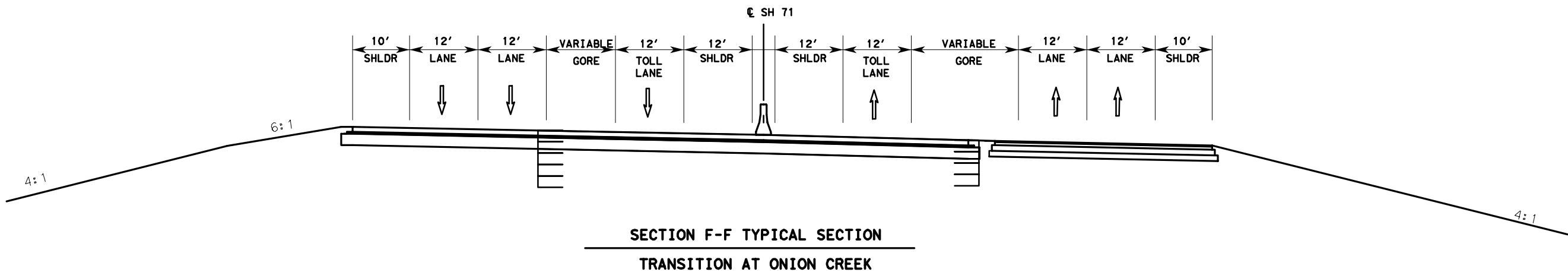
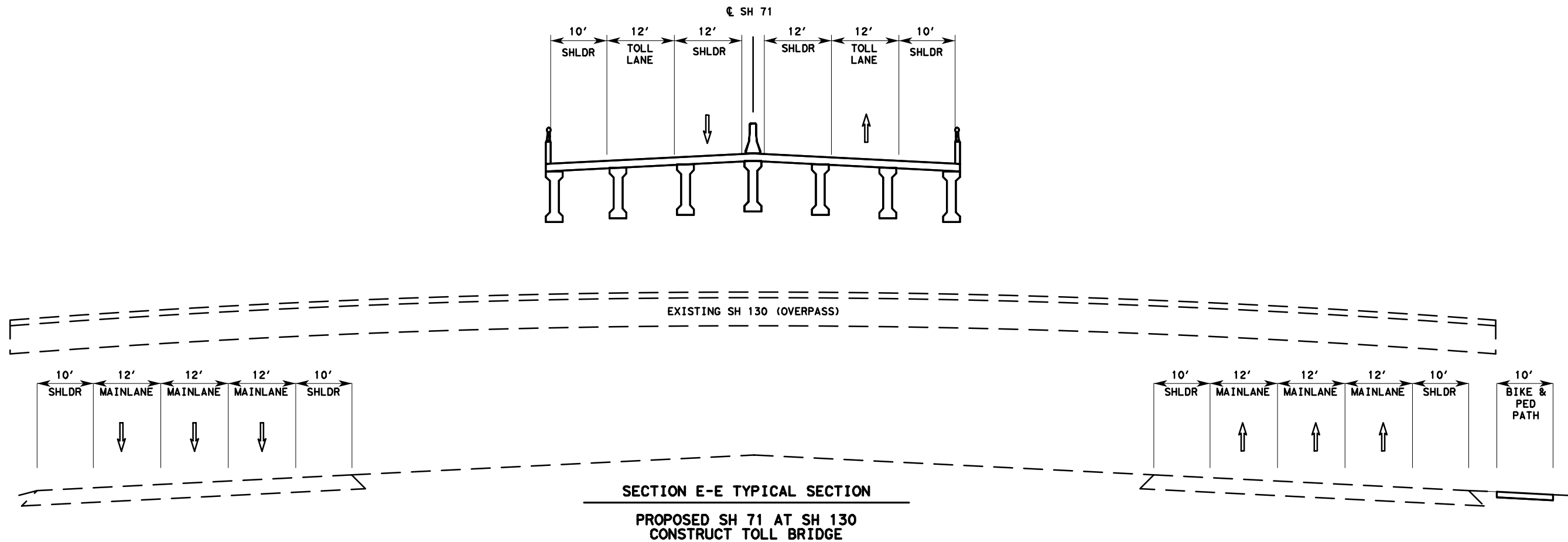
PHASE 5

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or permit purposes.
Eng/Drawn: DENNIS K. SEAL
P.E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

MCCARTHY

Texas Department of Transportation			
SHEET 2 OF 3			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
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STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



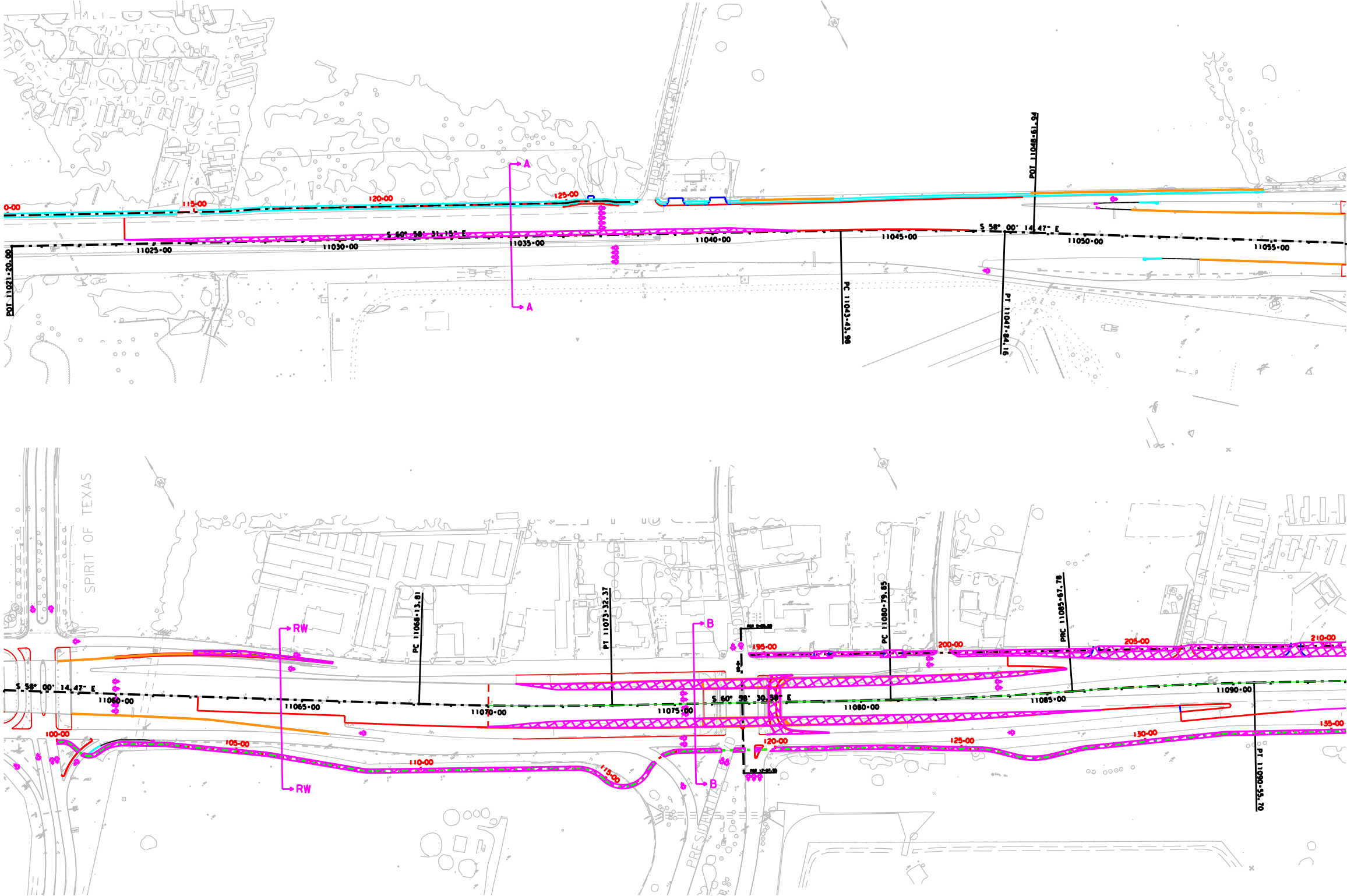
PHASE 5

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Eng/ner: DENNIS K. SEAL
P. E. No. 80287 Date 5/16/2014

SH 71
TCP TYPICAL
SECTIONS

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Texas Department of Transportation			
SHEET 3 OF 3			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			26
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



PHASE 1 CONSTRUCTION



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Kimley»Horn
Engineer: **DEMMIS H. SEAL**
P.E. No. **80287** Date **5/16/2014**

SH 71
PHASE I TCP
LAYOUT
Kimley»Horn

F-928



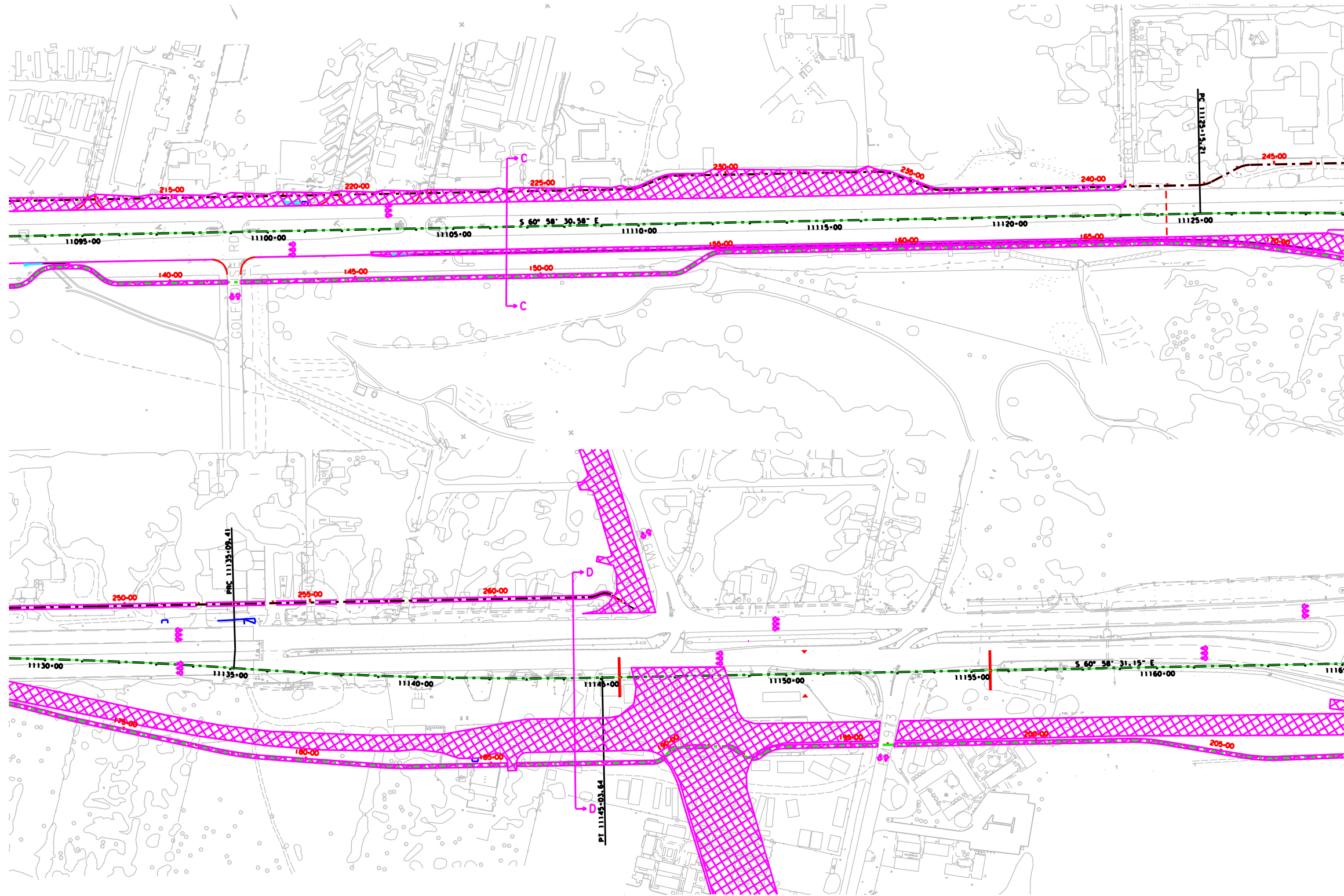
Texas Department of Transportation
SHEET 1 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			27
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECTION	JOB	HIGHWAY NO.
			SH 71

\$TIMES

\$DATE\$

\$FILES



PHASE 1 CONSTRUCTION



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Engineer: **DEMMIS K. SEAL**
P.E. No. **80287** Date **9/9/2018**

SH 71
PHASE 1 TCP
LAYOUT
Kimley»Horn

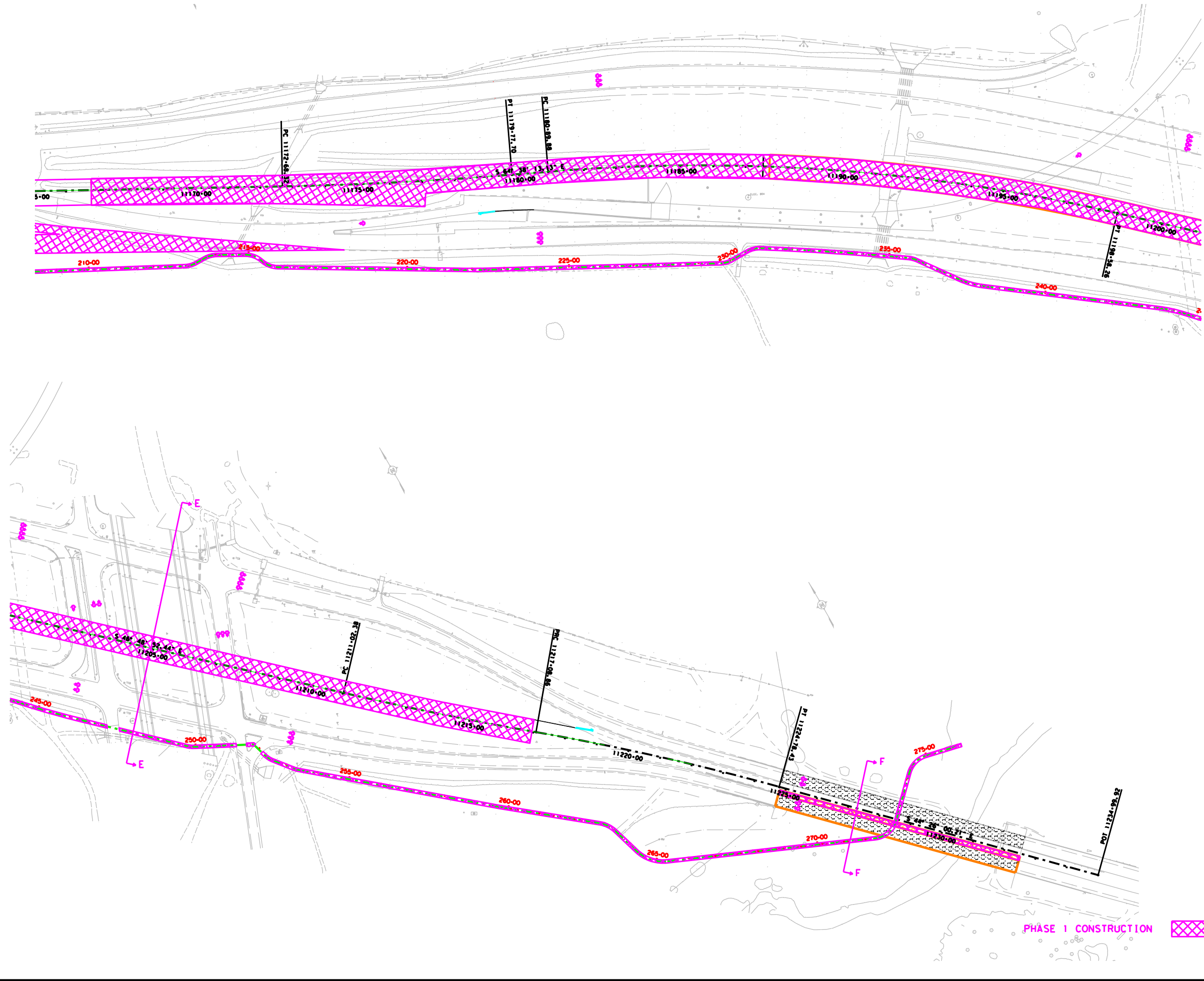
F-928

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Texas Department of Transportation

SHEET 2 OF 3

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6			28
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECT.	JOB	HIGHWAY NO.
			SH 71



Engineer: DENNIS R. SEAL
P.E. No. 80287 Date SSSDATESSS



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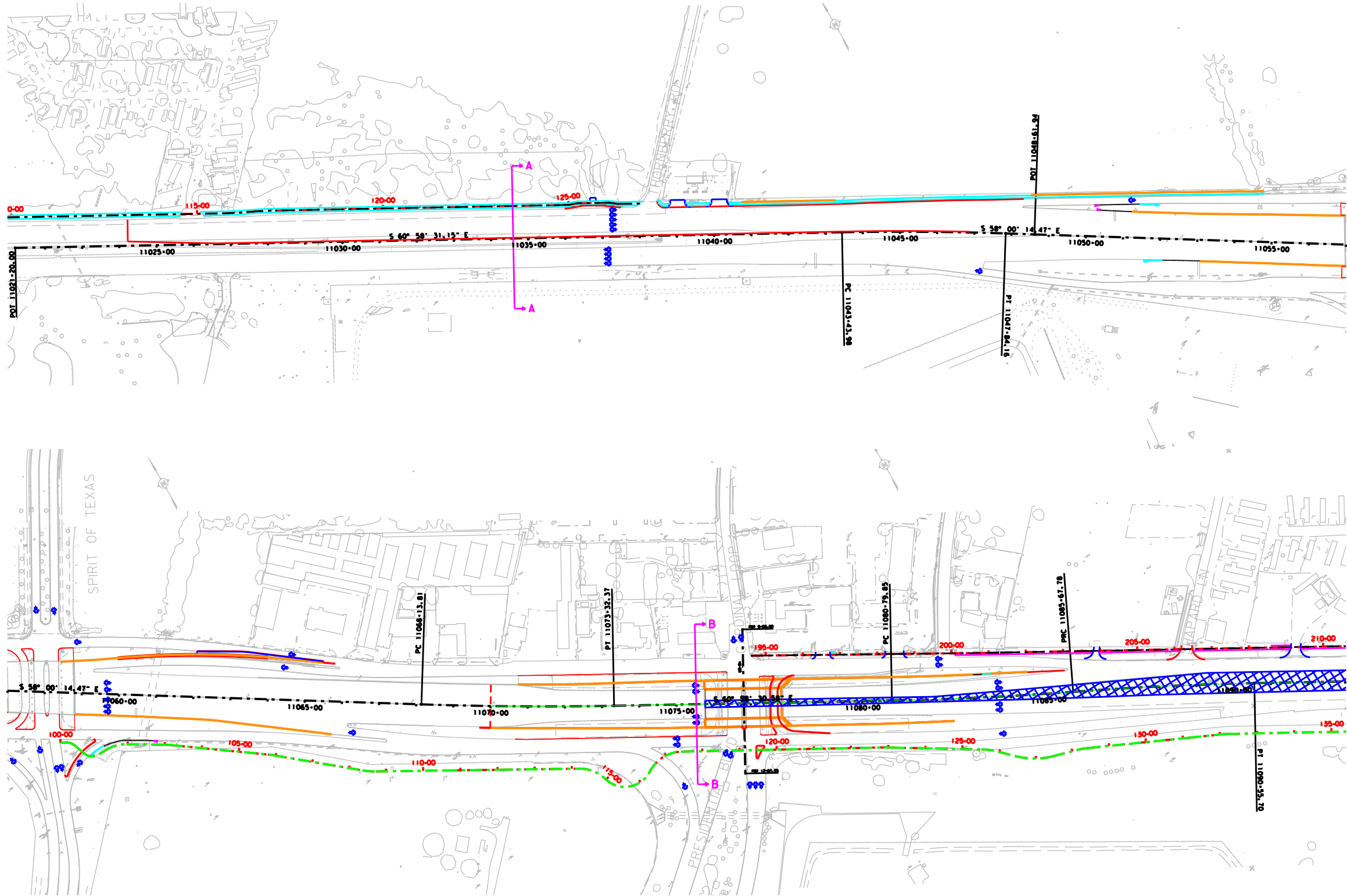
 **Texas Department of Transportation**
SHEET 3 OF 3

SHEET 3 OF 3				
FED. RD. DIST. NO.	STATE AID PROJECT			SHEET NO.
6				29
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

\$FILES

\$DATES

\$TIMES



PHASE 2 CONSTRUCTION



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Engineer: **DEMMIS H. SEAL**
P.E. No. **80287** Date **9/9/2020**

SH 71
PHASE 2 TCP
LAYOUT
Kimley»Horn
F-928

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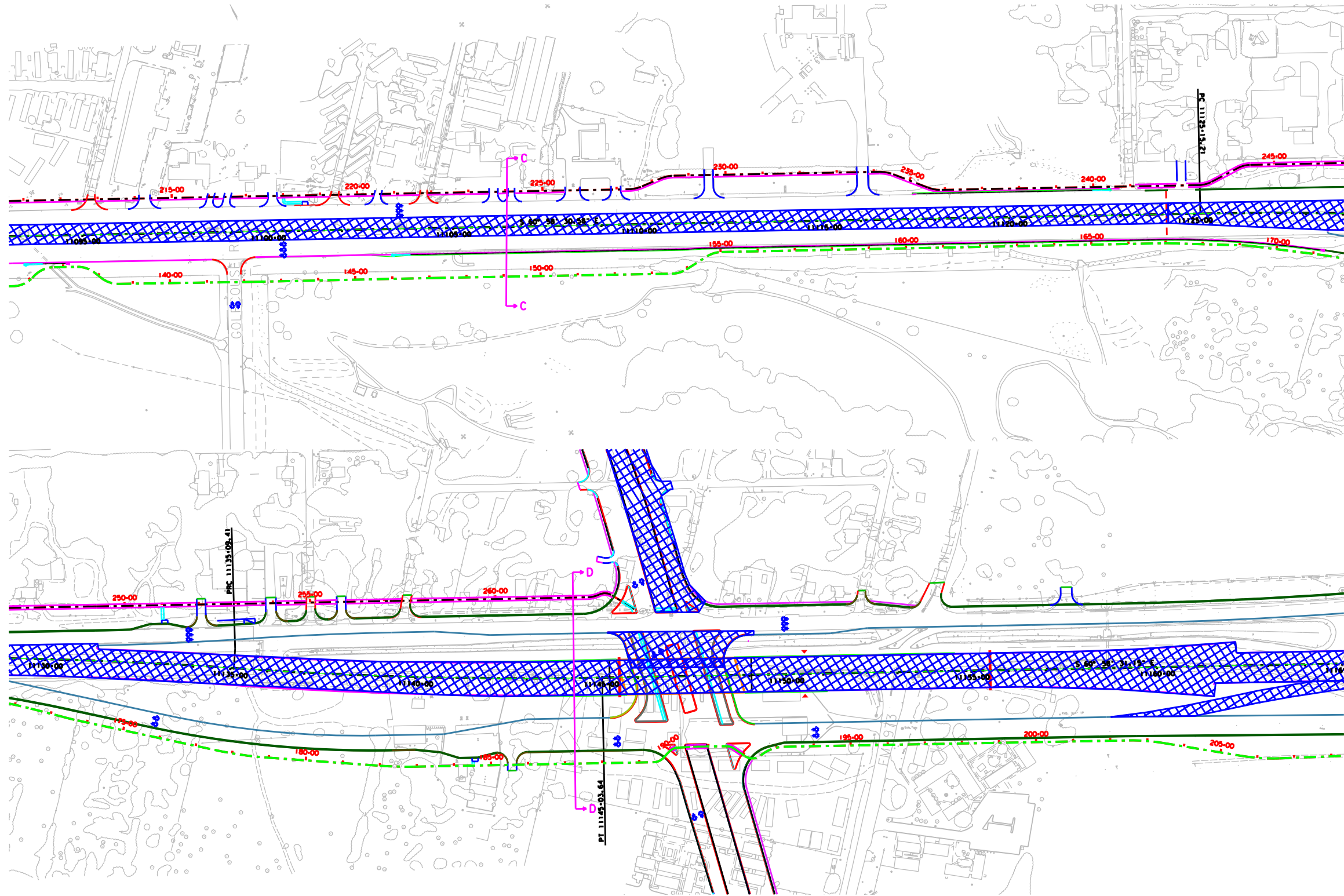
Texas Department of Transportation

SHEET 1 OF 3			
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STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECT.	JOB	HIGHWAY NO.
			SH 71

\$TIMES

\$DATES

\$FILES



PHASE 2 CONSTRUCTION



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P.E. No. **80287** Date **9/9/2018**

SH 71
PHASE 2 TCP
LAYOUT
Kimley»Horn

F-928

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Texas Department of Transportation

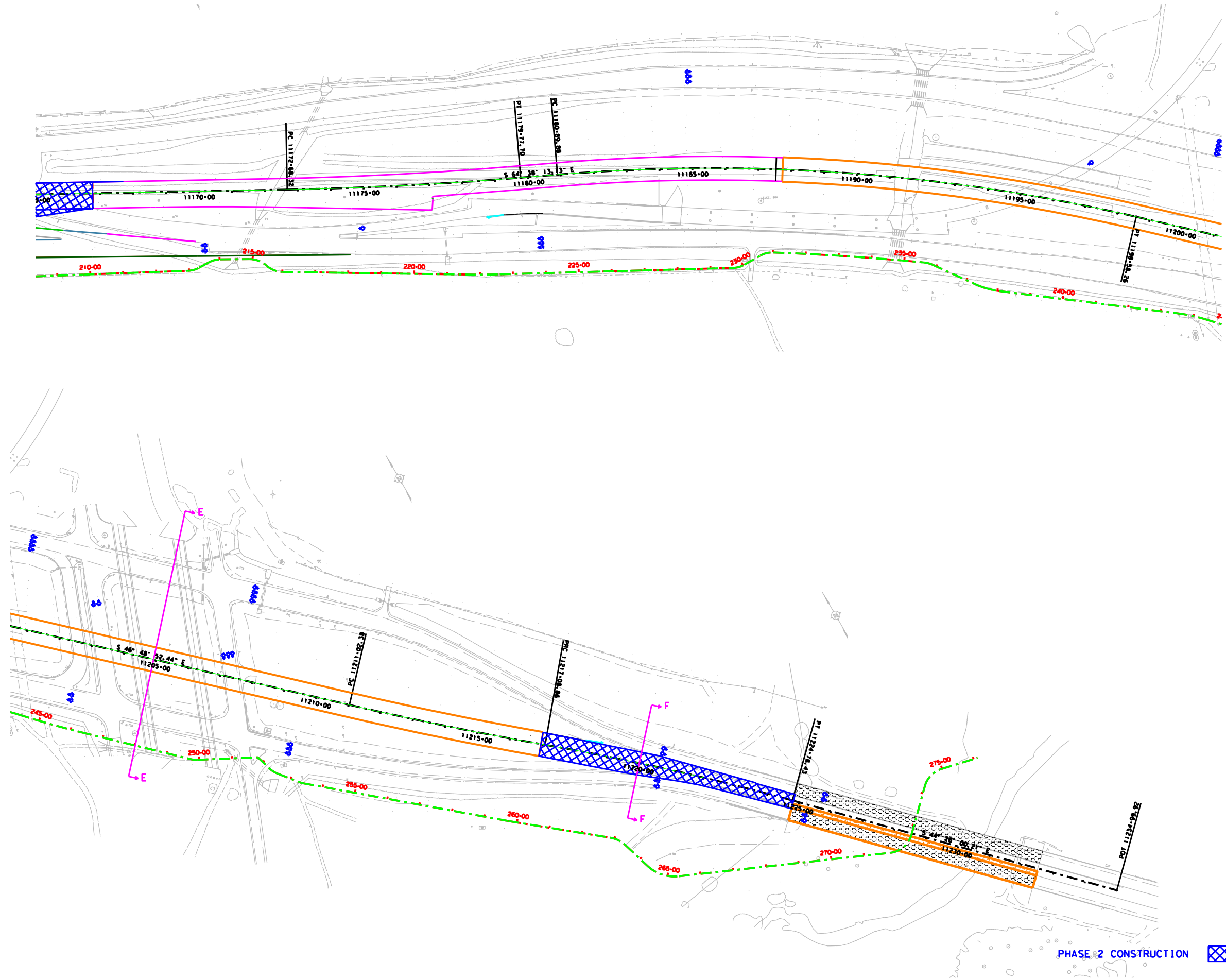
SHEET 2 OF 3

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STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		SH 71

\$FILES

\$DATES

\$TIMES



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Engineer: **DEMMIS K. SEAL**
P.E. No. **80287** Date **9/9/2018**

**SH 71
PHASE 2 TCP
LAYOUT**
Kimley»Horn

F-928

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Texas Department of Transportation

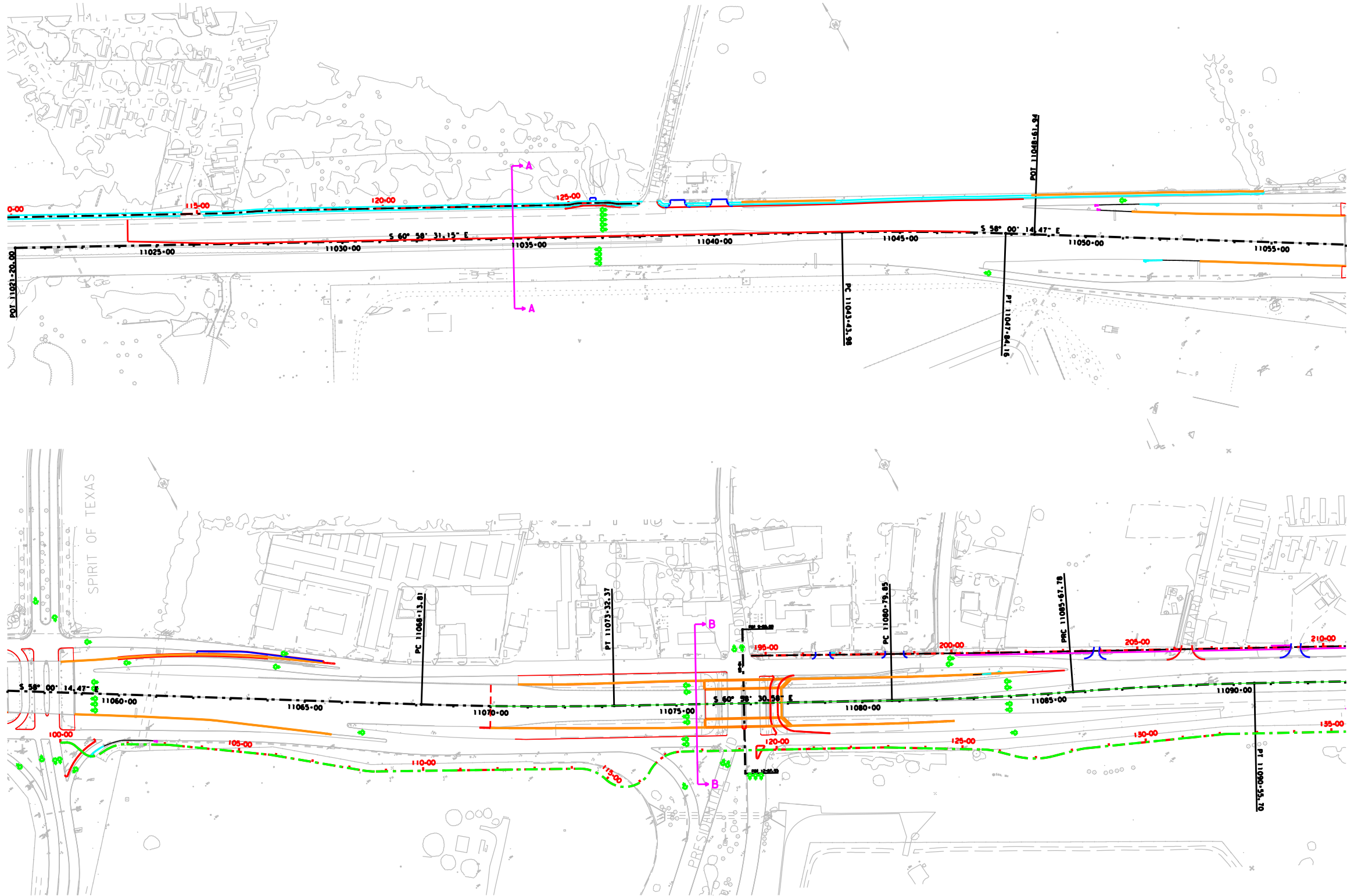
SHEET 3 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
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STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECT.	JOB	HIGHWAY NO.
			SH 71

\$TIMES

\$DATES

\$FILES



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Kimley»Horn
Engineer: **DEMMIS H. SEAL**
P.E. No. **80287** Date **9/9/2018**

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LAYOUT
Kimley»Horn
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Texas Department of Transportation			
SHEET 1 OF 3			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			33
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECTION	JOB	WIDENING NO.
			SH 71

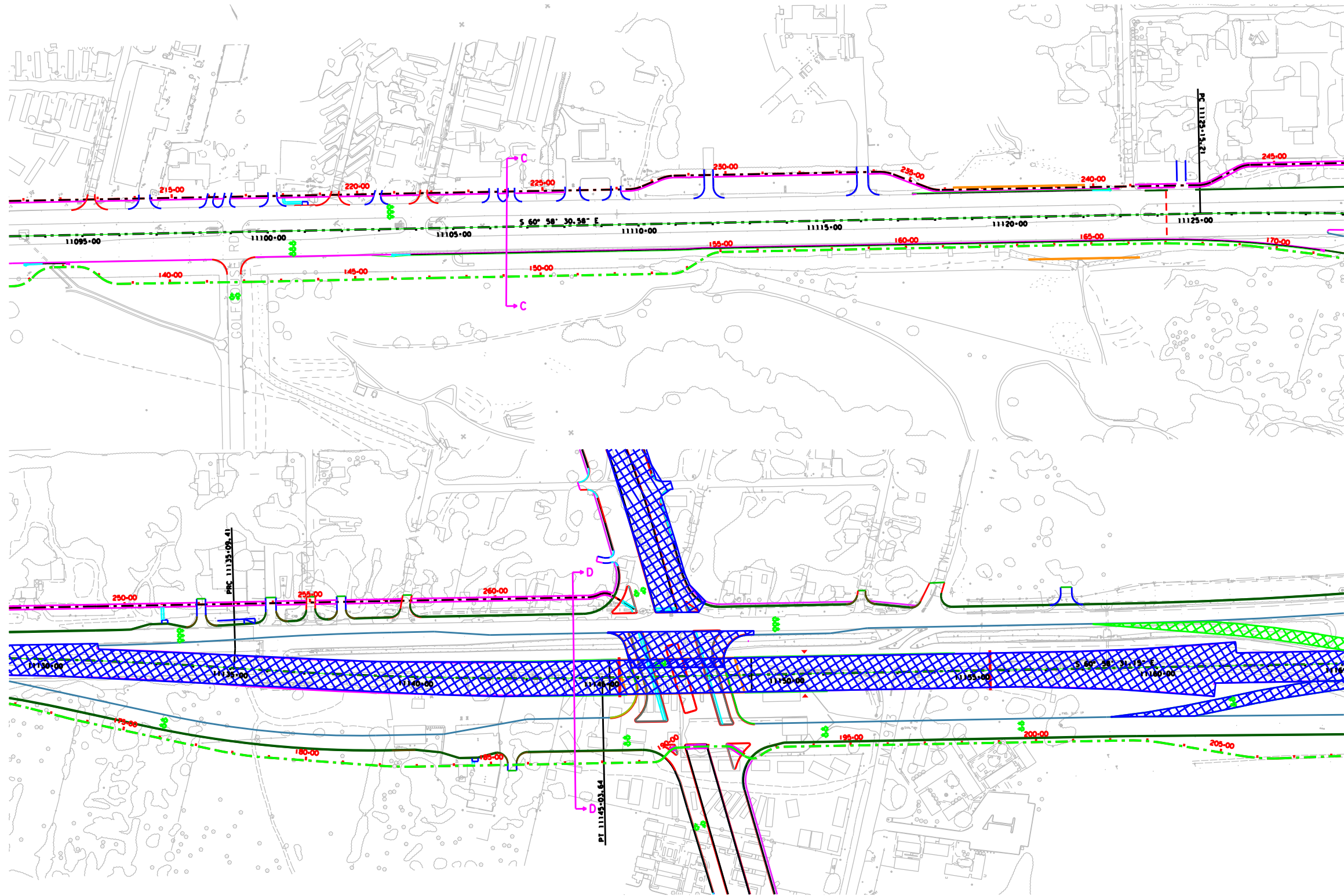
PHASE 3 CONSTRUCTION



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\$DATE\$

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PHASE 3 CONSTRUCTION



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Kimley»Horn

Engineer: **DEMMIS K. SEAL**
P.E. No. **80287** Date **9/9/2018**

SH 71
PHASE 3 TCP
LAYOUT
Kimley»Horn

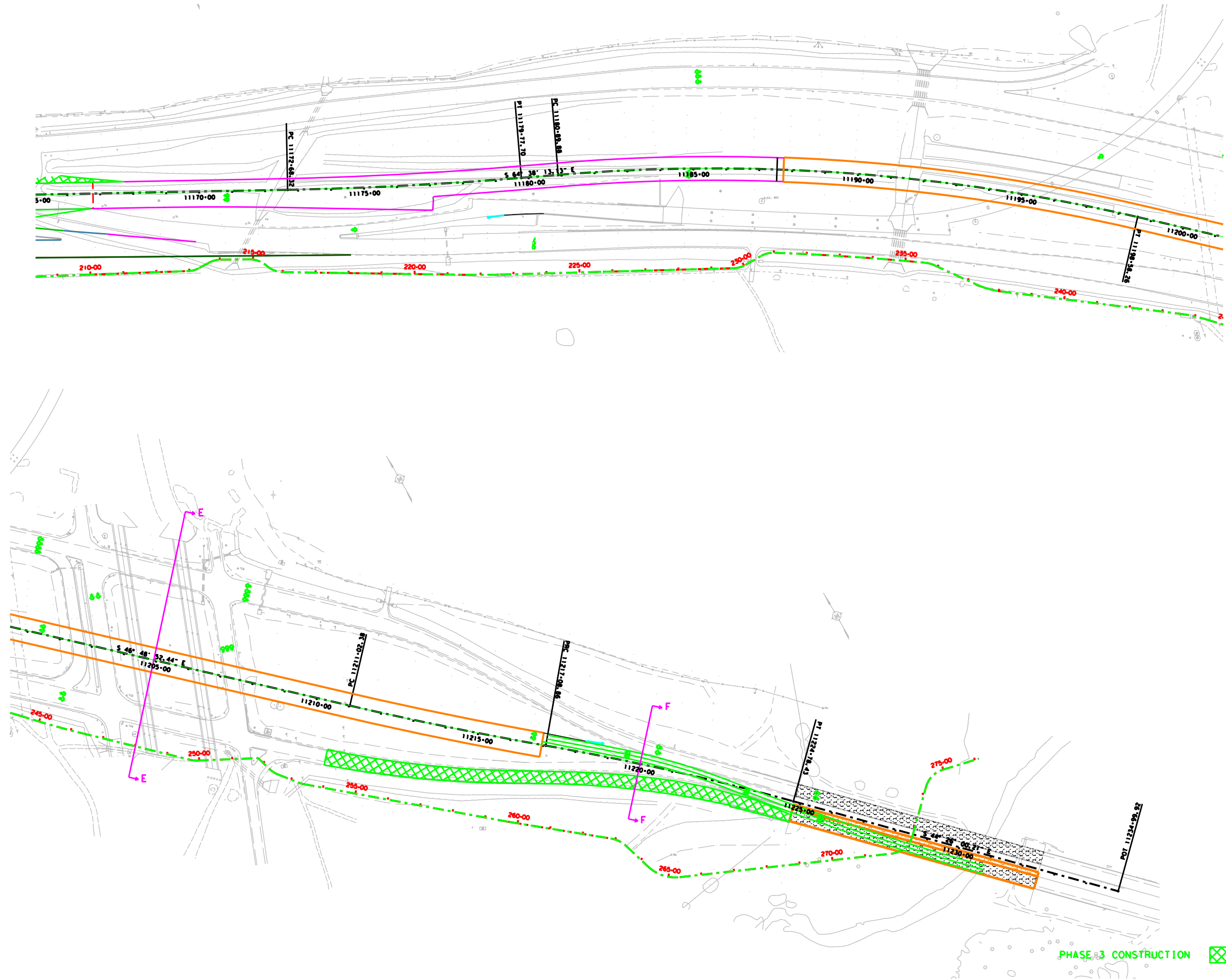
F-928

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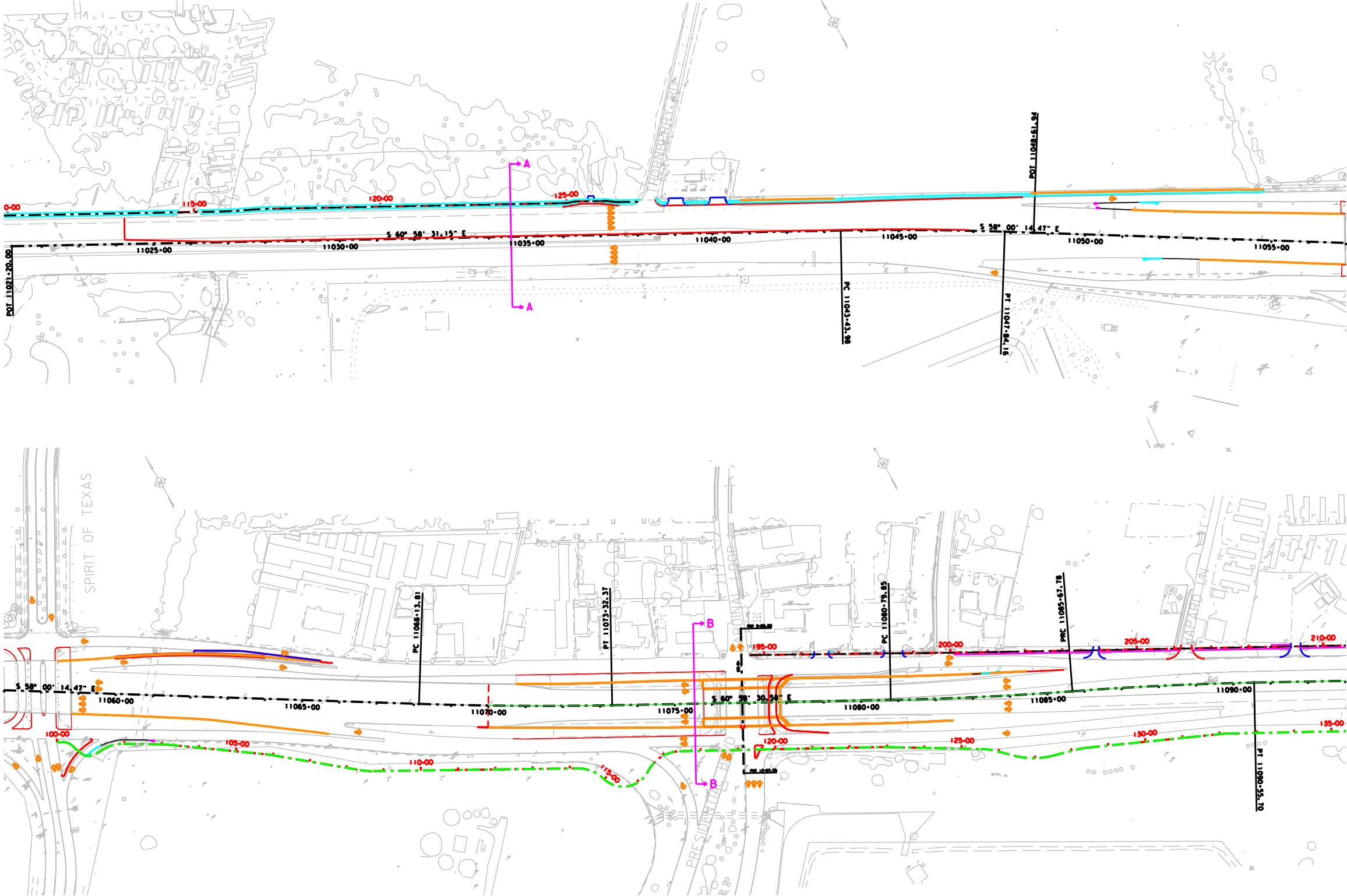
Texas Department of Transportation

SHEET 2 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		34
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		SH 71



FED. NO. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			35
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



PHASE 4 CONSTRUCTION



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Kimley»Horn
Engineer: **DEMMIS H. SEAL**
P.E. No. **80287** Date **5/16/2014**

SH 71
PHASE 4 TCP
LAYOUT
Kimley»Horn

F-928

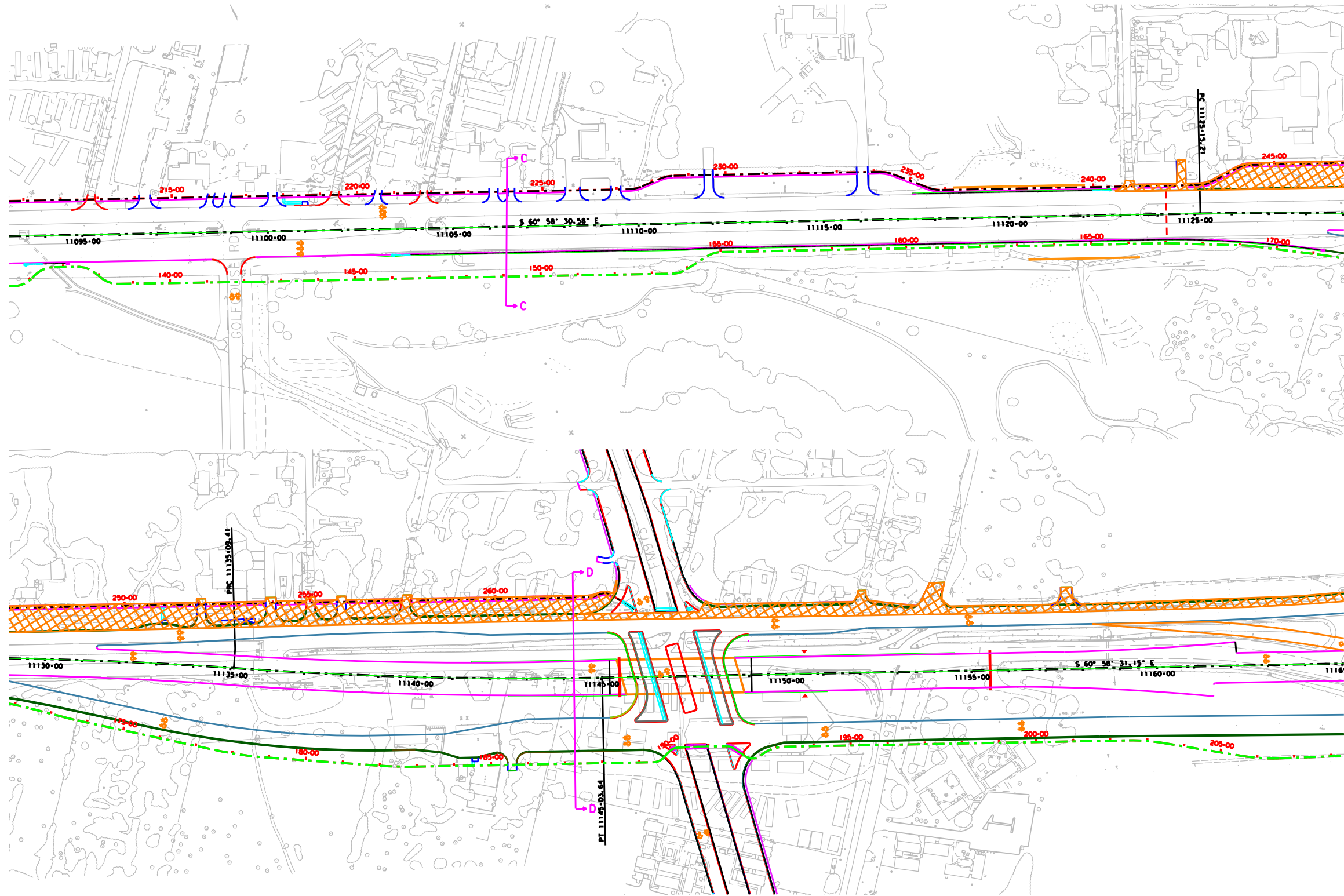


Texas Department of Transportation			
SHEET 1 OF 3			
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6			36
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECT.	JOB	HIGHWAY NO.
			SH 71

\$TIMES

\$DATES

\$FILES



PHASE 4 CONSTRUCTION



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Kimley»Horn

Engineer: **DEMMIS K. SEAL**
P.E. No. **80287** Date **9/9/2018**

SH 71
PHASE 4 TCP
LAYOUT
Kimley»Horn

F-928

MCCARTHY

Texas Department of Transportation

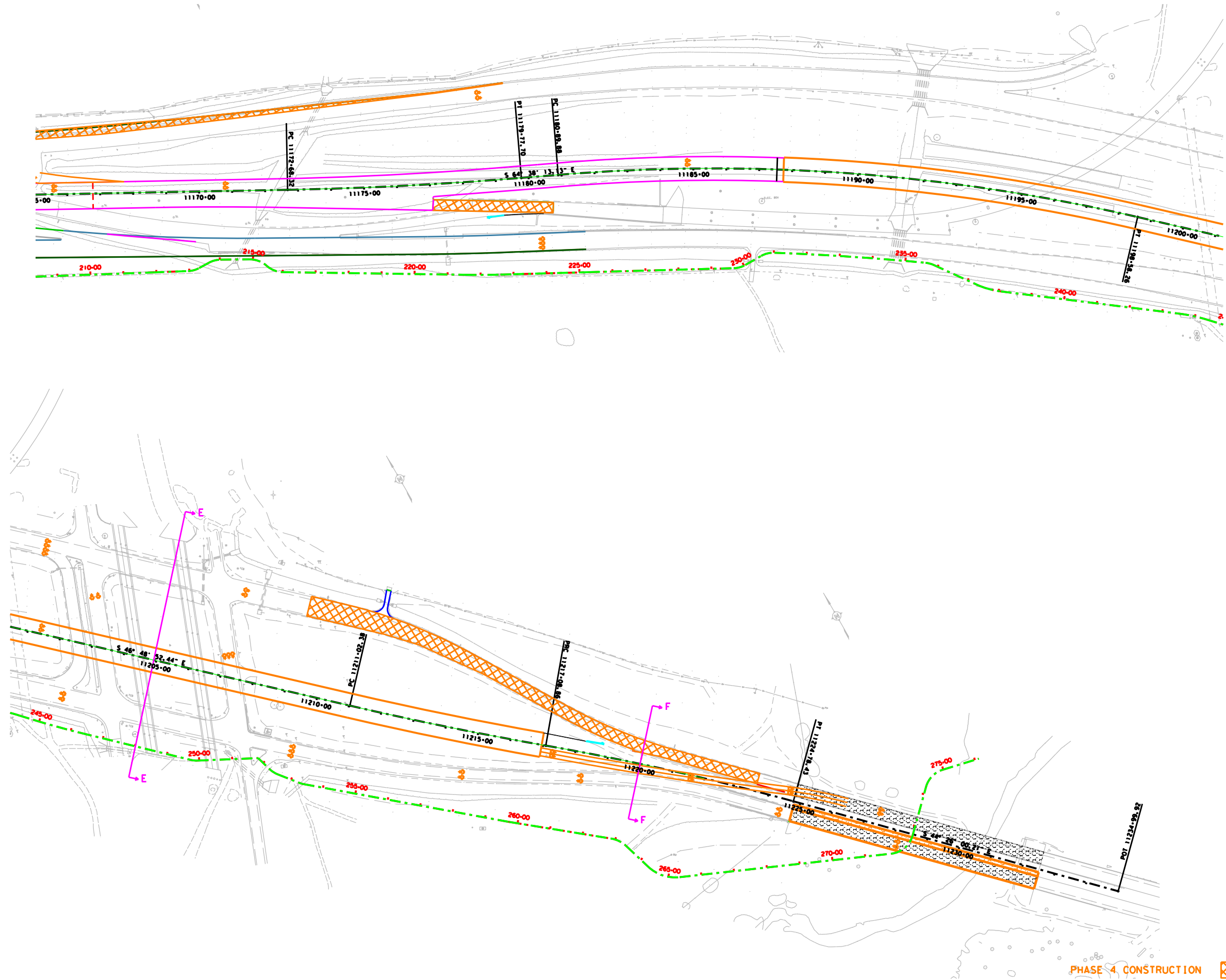
SHEET 2 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		37
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		SH 71

\$FILES

\$DATES

\$TIMES



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Kimley»Horn

Engineer: **DEMIUS K. SEAL**
P.E. No. **80287** Date **9/9/2019**

**SH 71
PHASE 4 TCP
LAYOUT**
Kimley»Horn F-928

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Texas Department of Transportation

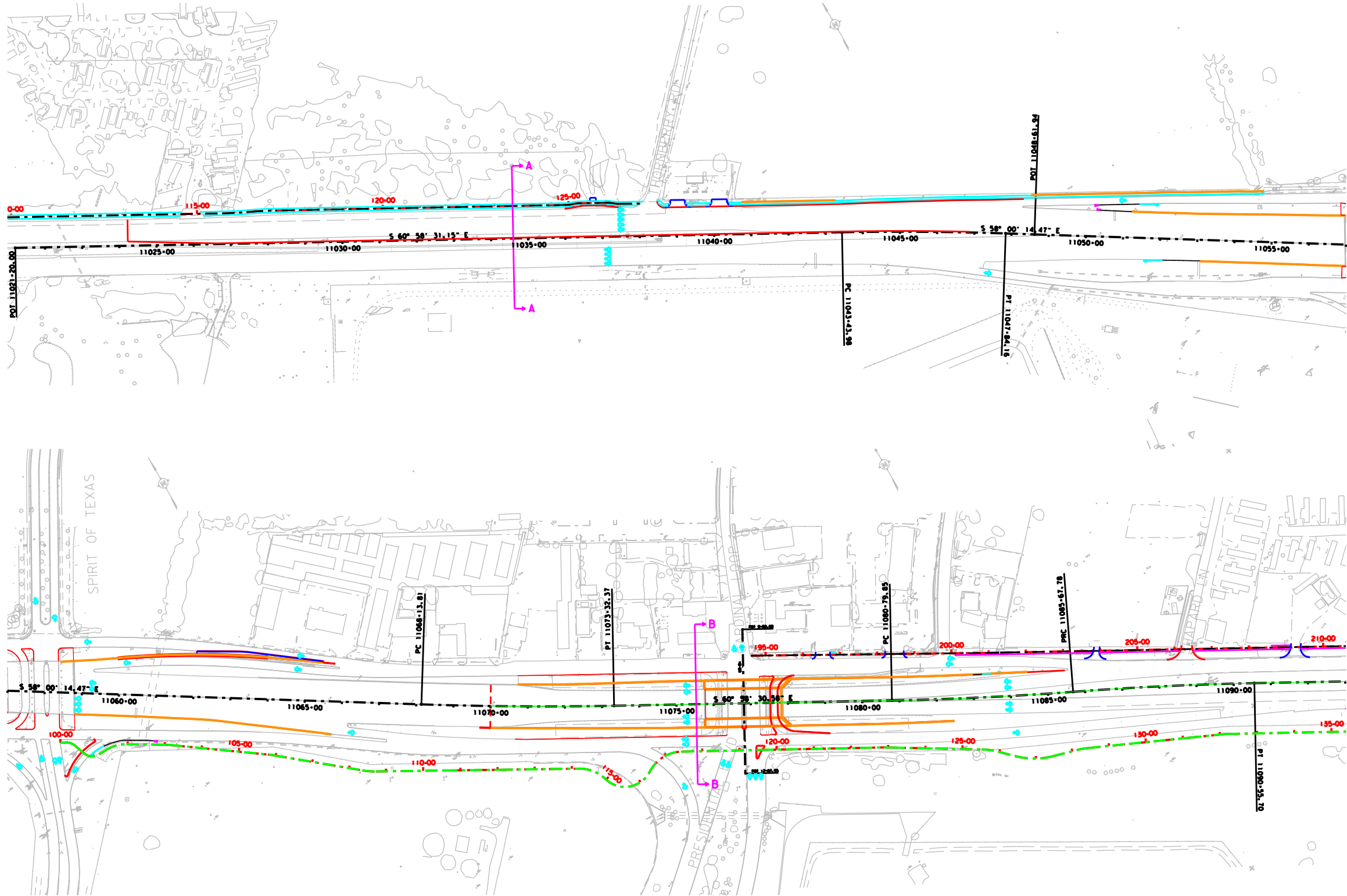
SHEET 3 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		38
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		SH 71

\$TIMES

\$DATES

\$FILES



PHASE 5 CONSTRUCTION



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Kimley»Horn
Engineer: **DEMMIS H. SEAL**
P.E. No. **80287** Date **9/9/2024**

SH 71
PHASE 5 TCP
LAYOUT
Kimley»Horn

F-928

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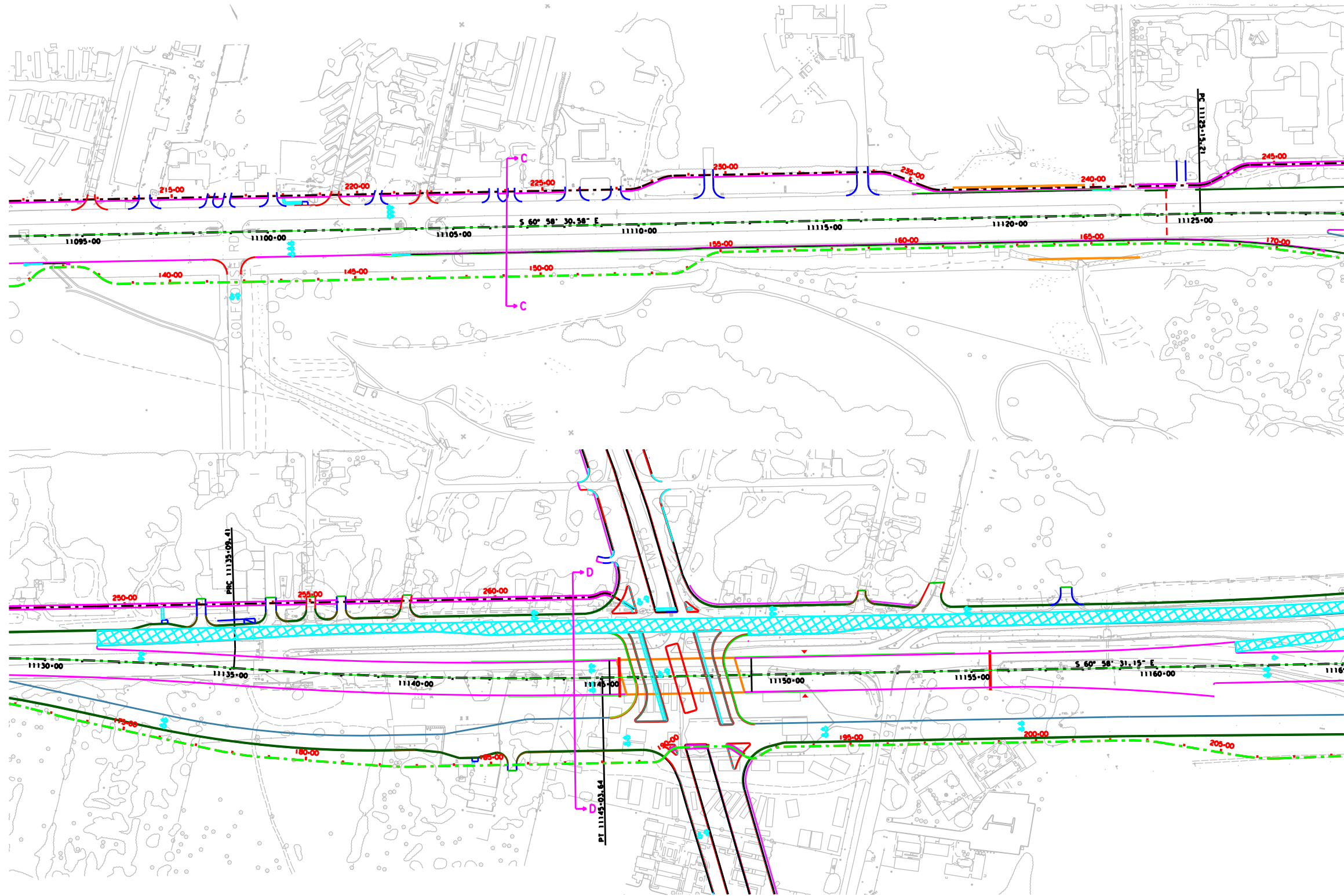
SHEET 1 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		39
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		SH 71

\$TIMES

\$DATES

\$FILES



PHASE 5 CONSTRUCTION



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Kimley»Horn

Engineer: **DEMIUS K. SEAL**
P.E. No. **80287** Date **9/9/2019**

SH 71
PHASE 5 TCP
LAYOUT
Kimley»Horn

F-928

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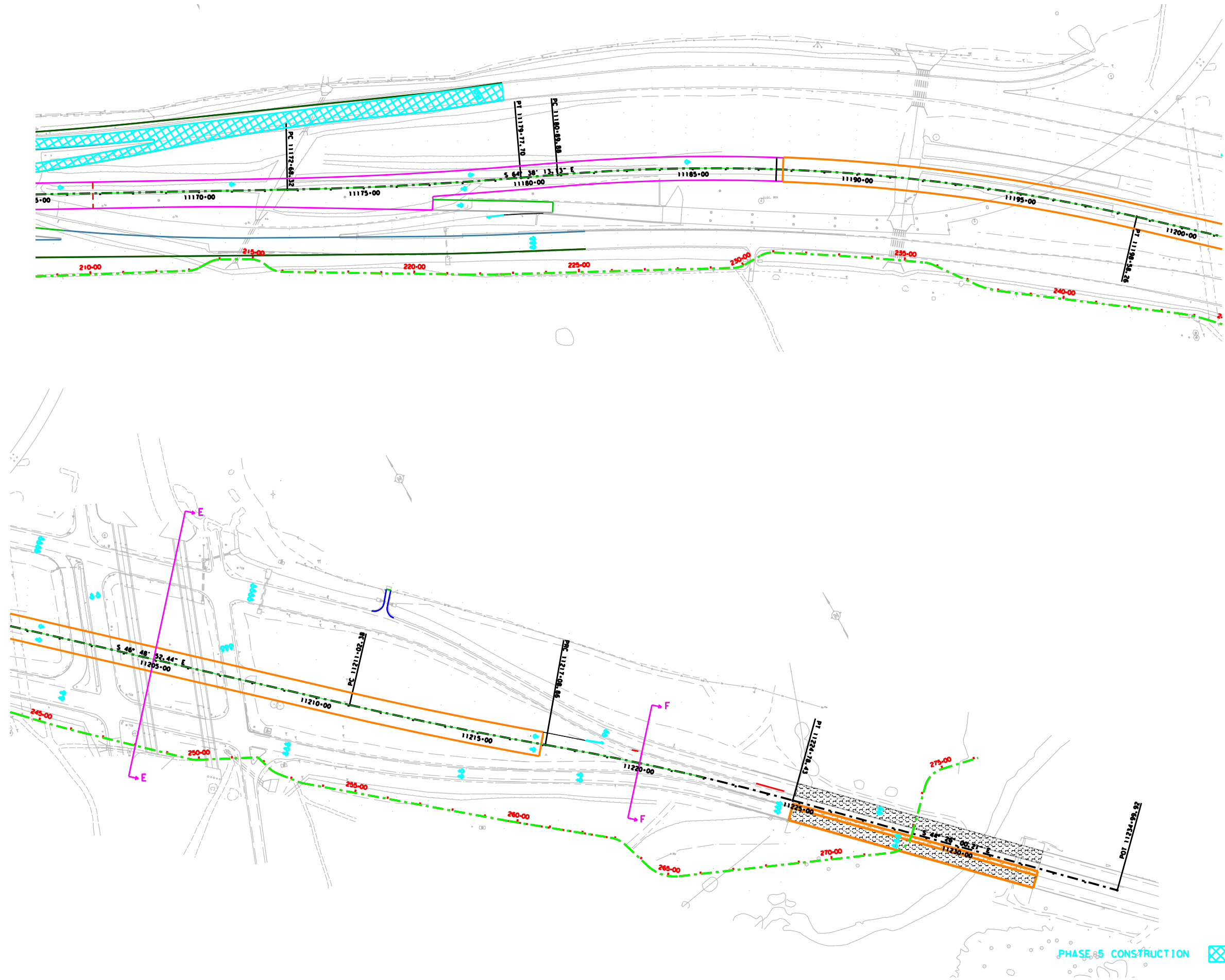
Texas Department of Transportation
SHEET 2 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		40
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		SH 71

\$FILES

\$DATES

\$TIMES



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Kimley»Horn

Engineer: **DEMMIS K. SEAL**
P.E. No. **80287** Date **9/9/2018**

**SH 71
PHASE 5 TCP
LAYOUT**
Kimley»Horn F-928

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Texas Department of Transportation

SHEET 3 OF 3

FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			41
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONTRACT	SECT.	JOB	HIGHWAY NO.
			SH 71

CL SH 71

<* 1 Describe Chain SH71-BASE

Chain SH71-BASE contains:
SH7140 CUR SH71-BASE-1 CUR SH71-BASE-2 SH7141 CUR SH71-BASE-3 CUR SH71-BASE-4 -
CUR SH71-BASE-5 CUR SH71-BASE-6 CUR SH71-BASE-7 CUR SH71-BASE-8 CUR SH71-BASE-9-
CUR SH71-BASE-10 CUR SH71-BASE-11 SH7142

Beginning chain SH71-BASE description

Point SH7140 N 10,055,627.7945 E 3,136,058.7698 Sta 11011+92.52

Course from SH7140 to PC SH71-BASE-1 S 68° 01' 41.78" E Dist 64.0299

Curve Data				

Curve SH71-BASE-1				
P.I. Station	11016+87.94	N	10,055,442.4354	E 3,136,518.2023
Delta	7° 03' 10.63"	(RT)		
Degree	0° 49' 06.64"			
Tangent	431.3852			
Length	861.6807			
Radius	7,000.0000			
External	13.2798			
Long Chord	861.1368			
Mid. Ord.	13.2546			
P.C. Station	11012+56.55	N	10,055,603.8378	E 3,136,118.1492
P.T. Station	11021+18.23	N	10,055,233.1332	E 3,136,895.4101
C.C.		N	10,049,112.2577	E 3,133,499.1058
Back	= S 68° 01' 41.78" E			
Ahead	= S 60° 58' 31.15" E			
Chord Bear	= S 64° 30' 06.46" E			

Course from PT SH71-BASE-1 to PC SH71-BASE-2 S 60° 58' 31.15" E Dist 2,225.7479

Curve Data				

Curve SH71-BASE-2				
P.I. Station	11045+64.12	N	10,054,046.4224	E 3,139,034.1198
Delta	2° 58' 16.68"	(RT)		
Degree	0° 40' 30.08"			
Tangent	220.1388			
Length	440.1788			
Radius	8,488.0000			
External	2.8542			
Long Chord	440.1295			
Mid. Ord.	2.8532			
P.C. Station	11043+43.98	N	10,054,153.2307	E 3,138,841.6281
P.T. Station	11047+84.16	N	10,053,929.7798	E 3,139,220.8162
C.C.		N	10,046,731.2320	E 3,134,723.3665
Back	= S 60° 58' 31.15" E			
Ahead	= S 58° 00' 14.47" E			
Chord Bear	= S 59° 29' 22.81" E			

Course from PT SH71-BASE-2 to SH7141 S 58° 00' 14.47" E Dist 77.7806

Point SH7141 N 10,053,888.5669 E 3,139,286.7808 Sta 11048+61.94

Course from SH7141 to PC SH71-BASE-3 S 58° 00' 14.47" E Dist 1,951.8718

Curve Data				

Curve SH71-BASE-3				
P.I. Station	11070+73.15	N	10,052,716.9351	E 3,141,162.0763
Delta	2° 58' 16.11"	(LT)		
Degree	0° 34' 22.65"			
Tangent	259.3392			
Length	518.5622			
Radius	10,000.0000			
External	3.3623			
Long Chord	518.5041			
Mid. Ord.	3.3611			
P.C. Station	11068+13.81	N	10,052,854.3486	E 3,140,942.1345
P.T. Station	11073+32.37	N	10,052,591.1067	E 3,141,388.8450
C.C.		N	10,061,335.2012	E 3,146,240.7323
Back	= S 58° 00' 14.47" E			
Ahead	= S 60° 58' 30.58" E			
Chord Bear	= S 59° 29' 22.52" E			

Course from PT SH71-BASE-3 to PC SH71-BASE-4 S 60° 58' 30.58" E Dist 747.4800

Curve Data				

Curve SH71-BASE-4				
P.I. Station	11083+23.88	N	10,052,110.0375	E 3,142,255.8301
Delta	3° 17' 20.20"	(LT)		
Degree	0° 40' 26.64"			
Tangent	244.0294			
Length	487.9247			
Radius	8,500.0000			
External	3.5022			
Long Chord	487.8577			
Mid. Ord.	3.5008			
P.C. Station	11080+79.85	N	10,052,228.4378	E 3,142,042.4485
P.T. Station	11085+67.78	N	10,052,004.0742	E 3,142,475.6530
C.C.		N	10,059,660.9182	E 3,146,166.5528
Back	= S 60° 58' 30.58" E			
Ahead	= S 64° 15' 50.78" E			
Chord Bear	= S 62° 37' 10.68" E			

CL SH 71 CONTINUED...

Curve Data				

Curve SH71-BASE-5				
P.I. Station	11088+11.81	N	10,051,898.1109	E 3,142,695.4759
Delta	3° 17' 20.20"	(RT)		
Degree	0° 40' 26.64"			
Tangent	244.0294			
Length	487.9247			
Radius	8,500.0000			
External	3.5022			
Long Chord	487.8577			
Mid. Ord.	3.5008			
P.C. Station	11085+67.78	N	10,052,004.0742	E 3,142,475.6530
P.T. Station	11090+55.70	N	10,051,779.7106	E 3,142,908.8575
C.C.		N	10,044,347.2303	E 3,138,784.7532
Back	= S 64° 15' 50.78" E			
Ahead	= S 60° 58' 30.58" E			
Chord Bear	= S 62° 37' 10.68" E			

Course from PT SH71-BASE-5 to PC SH71-BASE-6 S 60° 58' 30.58" E Dist 3,459.5037

Curve Data				

Curve SH71-BASE-6				
P.I. Station	11130+12.64	N	10,049,859.8491	E 3,146,368.8411
Delta	5° 07' 54.68"	(RT)		
Degree	0° 30' 58.24"			
Tangent	497.4338			
Length	994.2024			
Radius	11,100.0000			
External	11.1404			
Long Chord	993.8701			
Mid. Ord.	11.1292			
P.C. Station	11125+15.21	N	10,050,101.1984	E 3,145,933.8802
P.T. Station	11135+09.41	N	10,049,580.5609	E 3,146,780.4701
C.C.		N	10,040,395.2535	E 3,140,548.2853
Back	= S 60° 58' 30.58" E			
Ahead	= S 55° 50' 35.90" E			
Chord Bear	= S 58° 24' 33.24" E			

Curve Data				

Curve SH71-BASE-7				
P.I. Station	11140+06.86	N	10,049,301.2641	E 3,147,192.1118
Delta	5° 07' 55.25"	(LT)		
Degree	0° 30' 58.24"			
Tangent	497.4491			
Length	994.2329			
Radius	11,100.0000			
External	11.1411			
Long Chord	993.9006			
Mid. Ord.	11.1299			
P.C. Station	11135+09.41	N	10,049,580.5609	E 3,146,780.4701
P.T. Station	11145+03.64	N	10,049,059.9086	E 3,147,627.0867
C.C.		N	10,058,765.8683	E 3,153,012.6549
Back	= S 55° 50' 35.90" E			
Ahead	= S 60° 58' 31.15" E			
Chord Bear	= S 58° 24' 33.52" E			

Course from PT SH71-BASE-7 to PC SH71-BASE-8 S 60° 58' 31.15" E Dist 2,764.6804

Curve Data				

Curve SH71-BASE-8				
P.I. Station	11176+23.13	N	10,047,546.3742	E 3,150,354.8032
Delta	3° 39' 41.99"	(LT)		
Degree	0° 30' 58.24"			
Tangent	354.8106			
Length	709.3796			
Radius	11,100.0000			
External	5.6693			
Long Chord	709.2589			
Mid. Ord.	5.6664			
P.C. Station	11172+68.32	N	10,047,718.5234	E 3,150,044.5530
P.T. Station	11179+77.70	N	10,047,394.3904	E 3,150,675.4143
C.C.		N	10,057,424.4832	E 3,155,430.1213
Back	= S 60° 58' 31.15" E			
Ahead	= S 64° 38' 13.13" E			
Chord Bear	= S 62° 48' 22.14" E			

Course from PT SH71-BASE-8 to PC SH71-BASE-9 S 64° 38' 13.13" E Dist 112.1805

Curve Data				

Curve SH71-BASE-9				
P.I. Station	11189+81.27	N	10,046,964.5104	E 3,151,582.2495
Delta	17° 49' 20.69"	(RT)		
Degree	1° 00' 28.23"			
Tangent	891.3866			
Length	1,768.3751			
Radius	5,685.0000			
External	69.4587			
Long Chord	1,761.2543			
Mid. Ord.	68.6203			
P.C. Station	11180+89.88	N	10,047,346.3376	E 3,150,776.7820
P.T. Station	11198+58.26	N	10,046,354.4796	E 3,152,232.1975
C.C.		N	10,042,209.3036	E 3,148,341.6010
Back	= S 64° 38' 13.13" E			
Ahead	= S 46° 48' 52.44" E			
Chord Bear	= S 55° 43' 32.79" E			

Course from PT SH71-BASE-9 to PC SH71-BASE-10 S 46° 48' 52.44" E Dist 1,244.1183

CL SH 71 CONTINUED...

Curve Data				

Curve SH71-BASE-10				
P.I. Station	11214+05.69	N	10,045,295.4749	E 3,153,360.4976
Delta	3° 07' 49.87"	(LT)		
Degree	0° 30' 58.24"			
Tangent	303.3157			
Length	606.4805			
Radius	11,100.0000			
External	4.1434			
Long Chord	606.4050			
Mid. Ord.	4.1418			
P.C. Station	11211+02.38	N	10,045,503.0526	E 3,153,139.3372
P.T. Station	11217+08.86	N	10,045,100.2847	E 3,153,592.6640
C.C.		N	10,053,596.5359	E 3,160,735.7526
Back	= S 46° 48' 52.44" E			
Ahead	= S 49° 56' 42.31" E			
Chord Bear	= S 48° 22' 47.38" E			

Curve Data				

Curve SH71-BASE-11				
P.I. Station	11220+93.94	N	10,044,852.4736	E 3,153,887.4196
Delta	5° 30' 42.11"	(RT)		
Degree	0° 42' 58.31"			
Tangent	385.0860			
Length	769.5780			
Radius	8,000.0000			
External	9.2628			
Long Chord	769.2813			
Mid. Ord.	9.2521			
P.C. Station	11217+08.86	N	10,045,100.2847	E 3,153,592.6640
P.T. Station	11224+78.43	N	10,044,577.4972	E 3,154,157.0105
C.C.		N	10,038,976.8604	E 3,148,444.4920
Back	= S 49° 56' 42.31" E			
Ahead	= S 44° 26' 00.21" E			
Chord Bear	= S 47° 11' 21.26" E			

Course from PT SH71-BASE-11 to SH7142 S 44° 26' 00.21" E Dist 1,021.4867

Point SH7142 N 10,043,848.0895 E 3,154,872.1324 Sta 11234+99.92

Ending chain SH71-BASE description

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Richard A. Camero, P.E. 75967
on 5/16/2014
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Lockwood, Andrews & Newnam, Inc. ID No. 2614

5/16/2014 11:16:46 AM

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BL-A WESTBOUND SH 71

<* 1 Describe Chain WBSH71-BASE-A

Chain WBSH71-BASE-A contains:
WBSH50 CUR WBSH71-BASE-A-1 CUR WBSH71-BASE-A-2 CUR WBSH71-BASE-A-3 CUR WBSH71--
BASE-A-4

Beginning chain WBSH71-BASE-A description

Point WBSH50 N 10,050,279.4872 E 3,145,742.4137 Sta 21128+79.09

Course from WBSH50 to PC WBSH71-BASE-A-1 S 60° 58' 30.58" E Dist 877.2532

Curve Data				

Curve WBSH71-BASE-A-1				
P.I. Station	21139+57.20	N	10,049,756.4022	E 3,146,685.1200
Delta	2° 52' 35.06"	(LT)		
Degree	0° 42' 58.31"			
Tangent	200.8531			
Length	401.6218			
Radius	8,000.0000			
External	2.5210			
Long Chord	401.5796			
Mtd. Ord.	2.5202			
P.C. Station	21137+56.34	N	10,049,853.8538	E 3,146,509.4922
P.T. Station	21141+57.96	N	10,049,667.8866	E 3,146,865.4169
C.C.		N	10,056,849.1295	E 3,150,391.0021
Back	S 60° 58' 30.58" E			
Ahead	S 63° 51' 05.64" E			
Chord Bear	S 62° 24' 48.11" E			

Curve Data				

Curve WBSH71-BASE-A-2				
P.I. Station	21143+55.74	N	10,049,580.7253	E 3,147,042.9552
Delta	2° 52' 34.53"	(RT)		
Degree	0° 43' 38.24"			
Tangent	197.7800			
Length	395.4769			
Radius	7,878.0000			
External	2.4823			
Long Chord	395.4354			
Mtd. Ord.	2.4815			
P.C. Station	21141+57.96	N	10,049,667.8866	E 3,146,865.4169
P.T. Station	21145+53.44	N	10,049,484.7651	E 3,147,215.8961
C.C.		N	10,042,596.1577	E 3,143,393.5968
Back	S 63° 51' 05.64" E			
Ahead	S 60° 58' 31.11" E			
Chord Bear	S 62° 24' 48.37" E			

Course from PT WBSH71-BASE-A-2 to PC WBSH71-BASE-A-3 S 60° 58' 31.11" E Dist 1,967.1205

Curve Data				

Curve WBSH71-BASE-A-3				
P.I. Station	21170+03.76	N	10,048,295.9015	E 3,149,358.4848
Delta	4° 49' 43.71"	(LT)		
Degree	0° 29' 59.87"			
Tangent	483.2025			
Length	965.8330			
Radius	11,460.0000			
External	10.1824			
Long Chord	965.5472			
Mtd. Ord.	10.1734			
P.C. Station	21165+20.56	N	10,048,530.3448	E 3,148,935.9673
P.T. Station	21174+86.40	N	10,048,097.8573	E 3,149,799.2378
C.C.		N	10,058,551.0914	E 3,154,496.2046
Back	S 60° 58' 31.11" E			
Ahead	S 65° 48' 14.82" E			
Chord Bear	S 63° 23' 22.97" E			

Course from PT WBSH71-BASE-A-3 to PC WBSH71-BASE-A-4 S 65° 48' 14.82" E Dist 1,216.1521

Curve Data				

Curve WBSH71-BASE-A-4				
P.I. Station	21188+51.32	N	10,047,538.4340	E 3,151,044.2503
Delta	3° 16' 39.04"	(RT)		
Degree	1° 06' 06.63"			
Tangent	148.7693			
Length	297.4575			
Radius	5,200.0000			
External	2.1277			
Long Chord	297.4169			
Mtd. Ord.	2.1268			
P.C. Station	21187+02.55	N	10,047,599.4082	E 3,150,908.5504
P.T. Station	21190+00.01	N	10,047,469.8013	E 3,151,176.2421
C.C.		N	10,042,856.2305	E 3,148,777.2915
Back	S 65° 48' 14.82" E			
Ahead	S 62° 31' 35.78" E			
Chord Bear	S 64° 09' 55.30" E			

Ending chain WBSH71-BASE-A description

BL-B WESTBOUND SH 71

<* 1 Describe Chain WBSH71-BASE-B

Chain WBSH71-BASE-B contains:
WBSH100 CUR WBSH71-BASE-B-1 CUR WBSH71-BASE-B-2 WBSH101

Beginning chain WBSH71-BASE-B description

Point WBSH100 N 10,045,910.9544 E 3,153,124.3696 Sta 20+00.00

Course from WBSH100 to PC WBSH71-BASE-B-1 S 46° 29' 02.85" E Dist 208.4272

Curve Data				

Curve WBSH71-BASE-B-1				
P.I. Station	24+11.63	N	10,045,627.5224	E 3,153,422.8789
Delta	15° 25' 47.36"	(RT)		
Degree	3° 49' 10.99"			
Tangent	203.2055			
Length	403.9518			
Radius	1,500.0000			
External	13.7016			
Long Chord	402.7322			
Mtd. Ord.	13.5776			
P.C. Station	22+08.43	N	10,045,767.4407	E 3,153,275.5176
P.T. Station	26+12.38	N	10,045,453.4406	E 3,153,527.7025
C.C.		N	10,044,679.6653	E 3,152,242.6843
Back	S 46° 29' 02.85" E			
Ahead	S 31° 03' 15.49" E			
Chord Bear	S 38° 46' 09.17" E			

Course from PT WBSH71-BASE-B-1 to PC WBSH71-BASE-B-2 S 31° 03' 15.49" E Dist 330.0174

Curve Data				

Curve WBSH71-BASE-B-2				
P.I. Station	31+30.28	N	10,045,009.7657	E 3,153,794.8619
Delta	13° 23' 41.43"	(LT)		
Degree	3° 34' 51.55"			
Tangent	187.8838			
Length	374.0545			
Radius	1,600.0000			
External	10.9936			
Long Chord	373.2033			
Mtd. Ord.	10.9186			
P.C. Station	29+42.40	N	10,045,170.7217	E 3,153,697.9420
P.T. Station	33+16.45	N	10,044,875.6406	E 3,153,926.4324
C.C.		N	10,045,996.0821	E 3,155,068.6281
Back	S 31° 03' 15.49" E			
Ahead	S 44° 26' 56.92" E			
Chord Bear	S 37° 45' 06.20" E			

Course from PT WBSH71-BASE-B-2 to WBSH101 S 44° 26' 56.92" E Dist 528.9724

Point WBSH101 N 10,044,498.0219 E 3,154,296.8590 Sta 38+45.42

Ending chain WBSH71-BASE-B description

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Richard A. Camero, P.E. 75967
on 5/16/2014
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Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

HORIZONTAL
ALIGNMENT DATA



Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

Texas Department of Transportation			
SHEET 2 OF 7			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			43
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

5/16/2014 11:16:55 AM

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BL-A EASTBOUND SH 71

<* 1 Describe Chain EBSH71-BASE-A

Chain EBSH71-BASE-A contains:
EBSH50 CUR EBSH71-BASE-A-1 CUR EBSH71-BASE-A-2 CUR EBSH71-BASE-A-3 CUR EBSH71--
BASE-A-4 CUR EBSH71-BASE-A-5

Beginning chain EBSH71-BASE-A description

Point EBSH50 N 10,050,167.5628 E 3,145,680.3095 Sta 31123+22.20

Course from EBSH50 to PC EBSH71-BASE-A-1 S 60° 58' 30.58" E Dist 122.5132

Curve Data				

Curve EBSH71-BASE-A-1				
P.I. Station	31127+77.92	N	10,049,946.4528	E 3,146,078.7951
Delta	13° 16' 03.60"	(RT)		
Degree	1° 59' 59.47"			
Tangent	333.2064			
Length	663.4323			
Radius	2,865.0000			
External	19.3113			
Long Chord	661.9510			
Mtd. Ord.	19.1820			
P.C. Station	31124+44.71	N	10,050,108.1208	E 3,145,787.4362
P.T. Station	31131+08.15	N	10,049,722.2329	E 3,146,325.2742
C.C.		N	10,047,602.9377	E 3,144,397.3705
Back	= S 60° 58' 30.58" E			
Ahead	= S 47° 42' 26.98" E			
Chord Bear	= S 54° 20' 28.78" E			

Course from PT EBSH71-BASE-A-1 to PC EBSH71-BASE-A-2 S 47° 42' 26.98" E Dist 237.7800

Curve Data				

Curve EBSH71-BASE-A-2				
P.I. Station	31136+79.05	N	10,049,338.0608	E 3,146,747.5848
Delta	13° 16' 04.03"	(LT)		
Degree	2° 00' 01.26"			
Tangent	333.1267			
Length	663.2735			
Radius	2,864.2890			
External	19.3068			
Long Chord	661.7925			
Mtd. Ord.	19.1776			
P.C. Station	31133+45.93	N	10,049,562.2270	E 3,146,501.1646
P.T. Station	31140+09.20	N	10,049,176.4321	E 3,147,038.8743
C.C.		N	10,051,680.9963	E 3,148,428.5899
Back	= S 47° 42' 26.98" E			
Ahead	= S 60° 58' 31.00" E			
Chord Bear	= S 54° 20' 28.99" E			

Course from PT EBSH71-BASE-A-2 to PC EBSH71-BASE-A-3 S 60° 58' 31.00" E Dist 1,908.9150

Curve Data				

Curve EBSH71-BASE-A-3				
P.I. Station	31159+68.23	N	10,048,225.9337	E 3,148,751.8753
Delta	0° 34' 27.60"	(RT)		
Degree	0° 34' 22.65"			
Tangent	50.1205			
Length	100.2401			
Radius	10,000.0000			
External	0.1256			
Long Chord	100.2397			
Mtd. Ord.	0.1256			
P.C. Station	31159+18.11	N	10,048,250.2515	E 3,148,708.0494
P.T. Station	31160+18.35	N	10,048,201.1778	E 3,148,795.4553
C.C.		N	10,039,506.1470	E 3,143,856.1800
Back	= S 60° 58' 31.00" E			
Ahead	= S 60° 24' 03.40" E			
Chord Bear	= S 60° 41' 17.20" E			

Course from PT EBSH71-BASE-A-3 to PC EBSH71-BASE-A-4 S 60° 24' 03.40" E Dist 1,747.1887

Curve Data				

Curve EBSH71-BASE-A-4				
P.I. Station	31178+96.04	N	10,047,273.7364	E 3,150,428.1100
Delta	1° 53' 59.84"	(LT)		
Degree	0° 43' 40.90"			
Tangent	130.4985			
Length	260.9732			
Radius	7,870.0000			
External	1.0819			
Long Chord	260.9612			
Mtd. Ord.	1.0817			
P.C. Station	31177+65.54	N	10,047,338.1932	E 3,150,314.6412
P.T. Station	31180+26.52	N	10,047,213.0770	E 3,150,543.6536
C.C.		N	10,054,181.1824	E 3,154,201.8508
Back	= S 60° 24' 03.40" E			
Ahead	= S 62° 18' 03.25" E			
Chord Bear	= S 61° 21' 03.32" E			

Course from PT EBSH71-BASE-A-4 to PC EBSH71-BASE-A-5 S 62° 03' 28.40" E Dist 356.2791

BL-A EASTBOUND SH 71 CONTINUED...

Curve Data				

Curve EBSH71-BASE-A-5				
P.I. Station	31184+41.40	N	10,047,018.6713	E 3,150,910.1703
Delta	1° 01' 59.27"	(RT)		
Degree	0° 52' 53.30"			
Tangent	58.6041			
Length	117.2050			
Radius	6,500.0000			
External	0.2642			
Long Chord	117.2034			
Mtd. Ord.	0.2642			
P.C. Station	31183+82.79	N	10,047,046.1320	E 3,150,858.3982
P.T. Station	31185+00.00	N	10,046,990.2817	E 3,150,961.4389
C.C.		N	10,041,303.8925	E 3,147,812.6330
Back	= S 62° 03' 28.40" E			
Ahead	= S 61° 01' 29.12" E			
Chord Bear	= S 61° 32' 28.76" E			

Ending chain EBSH71-BASE-A description

BL-B EASTBOUND SH 71

<* 1 Describe Chain EBSH71-BASE-B

Chain EBSH71-BASE-B contains:
EBSH100 CUR EBSH71-BASE-B-1 CUR EBSH71-BASE-B-2 EBSH101

Beginning chain EBSH71-BASE-B description

Point EBSH100 N 10,045,543.5699 E 3,152,820.2766 Sta 30+00.00

Course from EBSH100 to PC EBSH71-BASE-B-1 S 48° 16' 28.69" E Dist 191.1862

Curve Data				

Curve EBSH71-BASE-B-1				
P.I. Station	34+74.35	N	10,045,227.8580	E 3,153,174.3083
Delta	10° 47' 03.44"	(LT)		
Degree	1° 54' 35.49"			
Tangent	283.1685			
Length	564.6640			
Radius	3,000.0000			
External	13.3344			
Long Chord	563.8309			
Mtd. Ord.	13.2754			
P.C. Station	31+91.19	N	10,045,416.3238	E 3,152,962.9673
P.T. Station	37+55.85	N	10,045,082.2651	E 3,153,417.1809
C.C.		N	10,047,655.3547	E 3,154,959.6498
Back	= S 48° 16' 28.69" E			
Ahead	= S 59° 03' 32.13" E			
Chord Bear	= S 53° 40' 00.41" E			

Course from PT EBSH71-BASE-B-1 to PC EBSH71-BASE-B-2 S 59° 03' 32.13" E Dist 109.6978

Curve Data				

Curve EBSH71-BASE-B-2				
P.I. Station	42+50.54	N	10,044,827.9191	E 3,153,841.4715
Delta	14° 37' 31.92"	(RT)		
Degree	1° 54' 35.49"			
Tangent	384.9883			
Length	765.7911			
Radius	3,000.0000			
External	24.6018			
Long Chord	763.7137			
Mtd. Ord.	24.4017			
P.C. Station	38+65.55	N	10,045,025.8633	E 3,153,511.2684
P.T. Station	46+31.34	N	10,044,553.0125	E 3,154,110.9940
C.C.		N	10,042,452.7737	E 3,151,968.7995
Back	= S 59° 03' 32.13" E			
Ahead	= S 44° 26' 00.21" E			
Chord Bear	= S 51° 44' 46.17" E			

Course from PT EBSH71-BASE-B-2 to EBSH101 S 44° 26' 00.21" E Dist 169.4130

Point EBSH101 N 10,044,432.0406 E 3,154,229.5966 Sta 48+00.75

Ending chain EBSH71-BASE-B description

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SH 71

HORIZONTAL
ALIGNMENT DATA

MCCARTHY

Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

Texas Department of Transportation			
SHEET 3 OF 7			
FED. RD. DIST. NO.	STATE AID PROJECT	SHEET NO.	
6		44	
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

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BL EB ENTRANCE RAMP AT PRESIDENTIAL

<* 1 Describe Chain EBENPRES

Chain EBENPRES contains:
EBENPRES01 CUR EBENPRES-1

Beginning chain EBENPRES description

Point EBENPRES01 N 10,051,910.7421 E 3,142,453.3727 Sta 10+00.00

Course from EBENPRES01 to PC EBENPRES-1 S 65° 22' 42.80" E Dist 489.5434

Curve Data				

Curve EBENPRES-1				
P.I. Station	17+21.83	N	10,051,610.0114	E 3,143,109.5766
Delta	4° 24' 12.21"	(RT)		
Degree	0° 56' 53.85"			
Tangent	232.2894			
Length	464.3501			
Radius	6,042.0000			
External	4.4636			
Long Chord	464.2358			
Mid. Ord.	4.4603			
P.C. Station	14+89.54	N	10,051,706.7880	E 3,142,898.4069
P.T. Station	19+53.89	N	10,051,497.3072	E 3,143,312.6927
C.C.		N	10,046,214.1253	E 3,140,381.1823
Back	= S 65° 22' 42.80" E			
Ahead	= S 60° 58' 30.58" E			
Chord Bear	= S 63° 10' 36.69" E			

Ending chain EBENPRES description

BL EB DIRECT CONNECT EXIT AT SH 130

<* 1 Describe Chain EBEXDC130

Chain EBEXDC130 contains:
CUR EBEXDC130-1 EBEXDC101 CUR EBEXDC130-2 EBEXDC102

Beginning chain EBEXDC130 description

Curve Data				

Curve EBEXDC130-1				
P.I. Station	11+87.49	N	10,047,789.0300	E 3,149,839.1644
Delta	2° 08' 47.26"	(RT)		
Degree	0° 34' 21.00"			
Tangent	187.4858			
Length	374.9277			
Radius	10,008.0000			
External	1.7560			
Long Chord	374.9058			
Mid. Ord.	1.7557			
P.C. Station	10+00.00	N	10,047,879.9956	E 3,149,675.2248
P.T. Station	13+74.93	N	10,047,691.9881	E 3,149,999.5820
C.C.		N	10,039,128.8924	E 3,144,819.4800
Back	= S 60° 58' 31.15" E			
Ahead	= S 58° 49' 43.89" E			
Chord Bear	= S 59° 54' 07.52" E			

Course from PT EBEXDC130-1 to EBEXDC101 S 58° 49' 43.89" E Dist 465.8362

Point EBEXDC101 N 10,047,450.8731 E 3,150,398.1631 Sta 18+40.76

Course from EBEXDC101 to PC EBEXDC130-2 S 58° 49' 43.89" E Dist 231.6191

Curve Data				

Curve EBEXDC130-2				
P.I. Station	22+09.73	N	10,047,259.8958	E 3,150,713.8628
Delta	1° 34' 25.76"	(RT)		
Degree	0° 34' 22.65"			
Tangent	137.3506			
Length	274.6839			
Radius	10,000.0000			
External	0.9432			
Long Chord	274.6753			
Mid. Ord.	0.9431			
P.C. Station	20+72.38	N	10,047,330.9880	E 3,150,596.3422
P.T. Station	23+47.07	N	10,047,185.6028	E 3,150,829.3866
C.C.		N	10,038,774.7373	E 3,145,420.3810
Back	= S 58° 49' 43.89" E			
Ahead	= S 57° 15' 18.13" E			
Chord Bear	= S 58° 02' 31.01" E			

Course from PT EBEXDC130-2 to EBEXDC102 S 57° 15' 18.13" E Dist 192.2562

Point EBEXDC102 N 10,047,081.6113 E 3,150,991.0907 Sta 25+39.32

Ending chain EBEXDC130 description

BL EB EXIT RAMP AT SH 130

<* 1 Describe Chain EBEX130

Chain EBEX130 contains:
CUR EBEX130-1 CUR EBEX130-2

Beginning chain EBEX130 description

Curve Data				

Curve EBEX130-1				
P.I. Station	14+31.32	N	10,048,345.3854	E 3,148,840.6150
Delta	8° 10' 57.88"	(RT)		
Degree	0° 57' 00.64"			
Tangent	431.3231			
Length	861.1795			
Radius	6,030.0000			
External	15.4065			
Long Chord	860.4478			
Mid. Ord.	15.3672			
P.C. Station	10+00.00	N	10,048,554.6575	E 3,148,463.4614
P.T. Station	18+61.18	N	10,048,084.5633	E 3,149,184.1429
C.C.		N	10,043,281.9604	E 3,145,537.7878
Back	= S 60° 58' 31.15" E			
Ahead	= S 52° 47' 33.27" E			
Chord Bear	= S 56° 53' 02.21" E			

Curve Data				

Curve EBEX130-2				
P.I. Station	22+62.13	N	10,047,842.1051	E 3,149,503.4838
Delta	7° 36' 30.14"	(LT)		
Degree	0° 57' 00.64"			
Tangent	400.9546			
Length	800.7305			
Radius	6,030.0000			
External	13.3157			
Long Chord	800.1423			
Mid. Ord.	13.2864			
P.C. Station	18+61.18	N	10,048,084.5633	E 3,149,184.1429
P.T. Station	26+61.91	N	10,047,644.0626	E 3,149,852.1151
C.C.		N	10,052,887.1661	E 3,152,830.4981
Back	= S 52° 47' 33.27" E			
Ahead	= S 60° 24' 03.40" E			
Chord Bear	= S 56° 35' 48.33" E			

Ending chain EBEX130 description

BL WB ENTRANCE RAMP AT SH 130

<* 1 Describe Chain WBEN130

Chain WBEN130 contains:
CUR WBEN130-1 CUR WBEN130-2

Beginning chain WBEN130 description

Curve Data				

Curve WBEN130-1				
P.I. Station	15+44.71	N	10,048,223.6409	E 3,149,212.5424
Delta	10° 20' 50.33"	(LT)		
Degree	0° 57' 08.60"			
Tangent	544.7101			
Length	1,086.4577			
Radius	6,016.0000			
External	24.6097			
Long Chord	1,084.9819			
Mid. Ord.	24.5094			
P.C. Station	10+00.00	N	10,048,487.9268	E 3,148,736.2420
P.T. Station	20+86.46	N	10,048,049.2036	E 3,149,728.5664
C.C.		N	10,053,748.3821	E 3,151,655.1230
Back	= S 60° 58' 31.15" E			
Ahead	= S 71° 19' 21.48" E			
Chord Bear	= S 66° 08' 56.31" E			

Course from PT WBEN130-1 to PC WBEN130-2 S 71° 19' 21.48" E Dist 97.0364

Curve Data				

Curve WBEN130-2				
P.I. Station	24+74.79	N	10,047,924.8455	E 3,150,096.4451
Delta	5° 31' 06.66"	(RT)		
Degree	0° 56' 52.72"			
Tangent	291.2930			
Length	582.1355			
Radius	6,044.0000			
External	7.0154			
Long Chord	581.9105			
Mid. Ord.	7.0073			
P.C. Station	21+83.49	N	10,048,018.1288	E 3,149,820.4926
P.T. Station	27+65.63	N	10,047,805.4568	E 3,150,362.1479
C.C.		N	10,042,292.4248	E 3,147,884.9692
Back	= S 71° 19' 21.48" E			
Ahead	= S 65° 48' 14.82" E			
Chord Bear	= S 68° 33' 48.15" E			

Ending chain WBEN130 description

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SH 71

HORIZONTAL
ALIGNMENT DATA



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& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

Texas Department of Transportation

SHEET 4 OF 7

FED. RD. DIST. NO.	STATE AID PROJECT	SHEET NO.
6		45
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONTRACT	SECT.	JOB
		HIGHWAY NO.
		SH 71

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BL NORTHBOUND FM 973

<* 1 Describe Chain NBFM973

Chain NBFM973 contains:

NB97301 CUR NBFM973-1 CUR NBFM973-2 CUR NBFM973-3 CUR NBFM973-4 CUR NBFM973-5 -
CUR NBFM973-6 CUR NBFM973-7 CUR NBFM973-8 NB97302

Beginning chain NBFM973 description

Point NB97301 N 10,059,773.7801 E 3,151,386.5166 Sta 6000+06.73

Course from NB97301 to PC NBFM973-1 S 28° 14' 05.16" W Dist 187.5449

Curve Data

Curve NBFM973-1
P.I. Station 6002+60.03 N 10,059,550.6200 E 3,151,266.6848
Delta = 1° 14' 58.21" (RT)
Degree = 0° 57' 00.64"
Tangent = 65.7535
Length = 131.5018
Radius = 6,030.0000
External = 0.3585
Long Chord = 131.4992
Mid. Ord. = 0.3585
P.C. Station 6001+94.27 N 10,059,608.5499 E 3,151,297.7918
P.T. Station 6003+25.78 N 10,059,493.3822 E 3,151,234.3219
C.C. N 10,062,461.2552 E 3,145,985.2621
Back = S 28° 14' 05.16" W
Ahead = S 29° 29' 03.37" W
Chord Bear = S 28° 51' 34.27" W

Course from PT NBFM973-1 to PC NBFM973-2 S 29° 29' 03.37" W Dist 875.7659

Curve Data

Curve NBFM973-2
P.I. Station 6013+16.35 N 10,058,631.0957 E 3,150,746.7762
Delta = 2° 10' 53.47" (LT)
Degree = 0° 57' 00.64"
Tangent = 114.8091
Length = 229.5905
Radius = 6,030.0000
External = 1.0929
Long Chord = 229.5767
Mid. Ord. = 1.0927
P.C. Station 6012+01.54 N 10,058,731.0360 E 3,150,803.2835
P.T. Station 6014+31.13 N 10,058,529.0768 E 3,150,694.1141
C.C. N 10,055,763.1630 E 3,156,052.3434
Back = S 29° 29' 03.37" W
Ahead = S 27° 18' 09.90" W
Chord Bear = S 28° 23' 36.63" W

Course from PT NBFM973-2 to PC NBFM973-3 S 27° 18' 09.90" W Dist 5,703.0248

Curve Data

Curve NBFM973-3
P.I. Station 6075+91.96 N 10,053,054.5982 E 3,147,868.1924
Delta = 47° 18' 54.09" (LT)
Degree = 5° 28' 58.26"
Tangent = 457.7990
Length = 862.9641
Radius = 1,045.0000
External = 95.8790
Long Chord = 838.6515
Mid. Ord. = 87.8214
P.C. Station 6071+34.16 N 10,053,461.3962 E 3,148,078.1812
P.T. Station 6079+97.12 N 10,052,624.4414 E 3,148,024.8611
C.C. N 10,052,982.0629 E 3,149,006.7632
Back = S 27° 18' 09.90" W
Ahead = S 20° 00' 44.20" E
Chord Bear = S 3° 38' 42.85" W

Course from PT NBFM973-3 to PC NBFM973-4 S 20° 00' 44.20" E Dist 621.3207

Curve Data

Curve NBFM973-4
P.I. Station 6088+97.54 N 10,051,778.3903 E 3,148,333.0038
Delta = 28° 51' 04.63" (RT)
Degree = 5° 16' 50.58"
Tangent = 279.0983
Length = 546.3517
Radius = 1,085.0000
External = 35.3218
Long Chord = 540.5977
Mid. Ord. = 34.2081
P.C. Station 6086+18.44 N 10,052,040.6365 E 3,148,237.4904
P.T. Station 6091+64.79 N 10,051,502.6066 E 3,148,290.1179
C.C. N 10,051,669.3262 E 3,147,218.0034
Back = S 20° 00' 44.20" E
Ahead = S 8° 50' 20.43" W
Chord Bear = S 5° 35' 11.88" E

Course from PT NBFM973-4 to PC NBFM973-5 S 8° 50' 20.43" W Dist 1,684.2601

BL NORTHBOUND FM 973 CONTINUED...

Curve Data

Curve NBFM973-5
P.I. Station 6110+76.38 N 10,049,613.7188 E 3,147,996.3857
Delta = 5° 11' 08.57" (RT)
Degree = 1° 08' 28.86"
Tangent = 227.3297
Length = 454.3490
Radius = 5,020.0000
External = 5.1447
Long Chord = 454.1940
Mid. Ord. = 5.1394
P.C. Station 6108+49.05 N 10,049,838.3487 E 3,148,031.3169
P.T. Station 6113+03.40 N 10,049,393.1655 E 3,147,941.2945
C.C. N 10,050,609.7150 E 3,143,070.9344
Back = S 8° 50' 20.43" W
Ahead = S 14° 01' 29.00" W
Chord Bear = S 11° 25' 54.71" W

Course from PT NBFM973-5 to PC NBFM973-6 S 14° 01' 29.00" W Dist 1,217.0530

Curve Data

Curve NBFM973-6
P.I. Station 6130+36.02 N 10,047,712.2006 E 3,147,521.4124
Delta = 28° 38' 07.96" (RT)
Degree = 2° 50' 11.13"
Tangent = 515.5589
Length = 1,009.5648
Radius = 2,020.0000
External = 64.7544
Long Chord = 999.0903
Mid. Ord. = 62.7431
P.C. Station 6125+20.46 N 10,048,212.3913 E 3,147,646.3532
P.T. Station 6135+30.02 N 10,047,333.0665 E 3,147,172.0440
C.C. N 10,048,701.9192 E 3,145,686.5669
Back = S 14° 01' 29.00" W
Ahead = S 42° 39' 36.96" W
Chord Bear = S 28° 20' 32.98" W

Course from PT NBFM973-6 to PC NBFM973-7 S 42° 39' 36.96" W Dist 718.4184

Curve Data

Curve NBFM973-7
P.I. Station 6145+38.87 N 10,046,591.1773 E 3,146,488.4004
Delta = 5° 30' 53.57" (RT)
Degree = 0° 57' 00.64"
Tangent = 290.4266
Length = 580.4046
Radius = 6,030.0000
External = 6.9899
Long Chord = 580.1806
Mid. Ord. = 6.9819
P.C. Station 6142+48.44 N 10,046,804.7526 E 3,146,685.2079
P.T. Station 6148+28.88 N 10,046,397.5047 E 3,146,271.9783
C.C. N 10,050,890.9813 E 3,142,250.8381
Back = S 42° 39' 36.96" W
Ahead = S 48° 10' 30.53" W
Chord Bear = S 45° 25' 03.75" W

Curve Data

Curve NBFM973-8
P.I. Station 6151+19.27 N 10,046,203.8318 E 3,146,055.5559
Delta = 5° 30' 53.61" (LT)
Degree = 0° 57' 00.64"
Tangent = 290.4270
Length = 580.4056
Radius = 6,030.0000
External = 6.9900
Long Chord = 580.1815
Mid. Ord. = 6.9819
P.C. Station 6148+28.84 N 10,046,397.5047 E 3,146,271.9783
P.T. Station 6154+09.25 N 10,045,990.2561 E 3,145,858.7481
C.C. N 10,041,904.0281 E 3,150,293.1185
Back = S 48° 10' 30.53" W
Ahead = S 42° 39' 36.93" W
Chord Bear = S 45° 25' 03.73" W

Course from PT NBFM973-8 to NB97302 S 42° 39' 36.93" W Dist 188.9054

Point NB97302 N 10,045,851.3380 E 3,145,730.7364 Sta 6155+98.16

Ending chain NBFM973 description

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Richard A. Camero, P.E. 75967
on 5/16/2014
It is not to be used for permit,
bidding or construction purposes.

Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

HORIZONTAL
ALIGNMENT DATA

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Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

Texas Department of Transportation			
SHEET 5 OF 7			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			46
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

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BL SOUTHBOUND FM 973

<* 1 Describe Chain SBFM973

Chain SBFM973 contains:
SB97301 CUR SBFM973-1 CUR SBFM973-2 CUR SBFM973-3 CUR SBFM973-4 CUR SBFM973-5 -
CUR SBFM973-6 CUR SBFM973-7 CUR SBFM973-8 SB97302

Beginning chain SBFM973 description

Point SB97301 N 10,059,774.5097 E 3,151,386.8946 Sta 3999+91.00

Course from SB97301 to PC SBFM973-1 S 27° 30' 10.87" W Dist 155.7488

Curve Data				

Curve SBFM973-1				
P.I. Station	4003+69.63	N	10,059,438.6665	E 3,151,212.0432
Delta	4° 14' 01.28"	(RT)		
Degree	0° 57' 00.64"			
Tangent	222.8852			
Length	445.5675			
Radius	6,030.0000			
External	4.1178			
Long Chord	445.4662			
Mid. Ord.	4.1150			
P.C. Station	4001+46.75	N	10,059,636.3627	E 3,151,314.9705
P.T. Station	4005+92.32	N	10,059,249.1084	E 3,151,094.8019
C.C.		N	10,062,420.9887	E 3,145,966.4420
Back	= S 27° 30' 10.87" W			
Ahead	= S 31° 44' 12.15" W			
Chord Bear	= S 29° 37' 11.51" W			

Course from PT SBFM973-1 to PC SBFM973-2 S 31° 44' 12.15" W Dist 617.3751

Curve Data				

Curve SBFM973-2				
P.I. Station	4014+43.13	N	10,058,525.5130	E 3,150,647.2596
Delta	4° 26' 02.25"	(LT)		
Degree	0° 57' 00.64"			
Tangent	233.4389			
Length	466.6447			
Radius	6,030.0000			
External	4.5169			
Long Chord	466.5283			
Mid. Ord.	4.5135			
P.C. Station	4012+09.69	N	10,058,724.0468	E 3,150,770.0523
P.T. Station	4016+76.34	N	10,058,318.0803	E 3,150,540.1830
C.C.		N	10,055,552.1665	E 3,155,898.4123
Back	= S 31° 44' 12.15" W			
Ahead	= S 27° 18' 09.89" W			
Chord Bear	= S 29° 31' 11.02" W			

Course from PT SBFM973-2 to PC SBFM973-3 S 27° 18' 09.89" W Dist 5,444.9273

Curve Data				

Curve SBFM973-3				
P.I. Station	4075+96.59	N	10,053,057.3747	E 3,147,824.6108
Delta	47° 18' 54.08"	(LT)		
Degree	5° 16' 50.58"			
Tangent	475.3224			
Length	895.9962			
Radius	1,085.0000			
External	99.5490			
Long Chord	870.7530			
Mid. Ord.	91.1830			
P.C. Station	4071+21.26	N	10,053,479.7439	E 3,148,042.6375
P.T. Station	4080+17.26	N	10,052,610.7526	E 3,147,987.2763
C.C.		N	10,052,982.0629	E 3,149,006.7633
Back	= S 27° 18' 09.89" W			
Ahead	= S 20° 00' 44.19" E			
Chord Bear	= S 3° 38' 42.85" W			

Course from PT SBFM973-3 to PC SBFM973-4 S 20° 00' 44.19" E Dist 621.3208

Curve Data				

Curve SBFM973-4				
P.I. Station	4089+07.39	N	10,051,774.3695	E 3,148,291.8978
Delta	28° 51' 04.63"	(RT)		
Degree	5° 28' 58.26"			
Tangent	268.8090			
Length	526.2097			
Radius	1,045.0000			
External	34.0196			
Long Chord	520.6678			
Mid. Ord.	32.9470			
P.C. Station	4086+38.58	N	10,052,026.9476	E 3,148,199.9056
P.T. Station	4091+64.79	N	10,051,508.7529	E 3,148,250.5930
C.C.		N	10,051,669.3262	E 3,147,218.0034
Back	= S 20° 00' 44.19" E			
Ahead	= S 8° 50' 20.44" W			
Chord Bear	= S 5° 35' 11.88" E			

Course from PT SBFM973-4 to PC SBFM973-5 S 8° 50' 20.44" W Dist 1,684.2603

BL SOUTHBOUND FM 973 CONTINUED...

Curve Data				

Curve SBFM973-5				
P.I. Station	4110+74.57	N	10,049,621.6550	E 3,147,957.1390
Delta	5° 11' 08.56"	(RT)		
Degree	1° 09' 01.86"			
Tangent	225.5182			
Length	450.7284			
Radius	4,980.0000			
External	5.1037			
Long Chord	450.5746			
Mid. Ord.	5.0984			
P.C. Station	4108+49.05	N	10,049,844.4949	E 3,147,991.7918
P.T. Station	4112+99.78	N	10,049,402.8592	E 3,147,902.4868
C.C.		N	10,050,609.7150	E 3,143,070.9343
Back	= S 8° 50' 20.44" W			
Ahead	= S 14° 01' 28.99" W			
Chord Bear	= S 11° 25' 54.72" W			

Course from PT SBFM973-5 to PC SBFM973-6 S 14° 01' 28.99" W Dist 1,217.0531

Curve Data				

Curve SBFM973-6				
P.I. Station	4130+22.18	N	10,047,731.7990	E 3,147,485.0788
Delta	28° 38' 07.97"	(RT)		
Degree	2° 53' 37.41"			
Tangent	505.3498			
Length	989.5735			
Radius	1,980.0000			
External	63.4722			
Long Chord	979.3064			
Mid. Ord.	61.5007			
P.C. Station	4125+16.83	N	10,048,222.0850	E 3,147,607.5455
P.T. Station	4135+06.41	N	10,047,360.1725	E 3,147,142.6286
C.C.		N	10,048,701.9192	E 3,145,686.5669
Back	= S 14° 01' 28.99" W			
Ahead	= S 42° 39' 36.96" W			
Chord Bear	= S 28° 20' 32.98" W			

Course from PT SBFM973-6 to PC SBFM973-7 S 42° 39' 36.96" W Dist 1,259.8708

Curve Data				

Curve SBFM973-7				
P.I. Station	4149+20.77	N	10,046,320.0712	E 3,146,184.1854
Delta	2° 56' 06.97"	(RT)		
Degree	0° 57' 00.64"			
Tangent	154.4926			
Length	308.9177			
Radius	6,030.0000			
External	1.9788			
Long Chord	308.8839			
Mid. Ord.	1.9781			
P.C. Station	4147+66.28	N	10,046,433.6828	E 3,146,288.8773
P.T. Station	4150+75.19	N	10,046,211.9698	E 3,146,073.8130
C.C.		N	10,050,519.9115	E 3,141,854.5075
Back	= S 42° 39' 36.96" W			
Ahead	= S 45° 35' 43.94" W			
Chord Bear	= S 44° 07' 40.45" W			

Curve Data				

Curve SBFM973-8				
P.I. Station	4152+29.69	N	10,046,103.8680	E 3,145,963.4403
Delta	2° 56' 07.01"	(LT)		
Degree	0° 57' 00.64"			
Tangent	154.4931			
Length	308.9187			
Radius	6,030.0005			
External	1.9788			
Long Chord	308.8849			
Mid. Ord.	1.9781			
P.C. Station	4150+75.19	N	10,046,211.9698	E 3,146,073.8130
P.T. Station	4153+84.11	N	10,045,990.2561	E 3,145,858.7481
C.C.		N	10,041,904.0278	E 3,150,293.1188
Back	= S 45° 35' 43.94" W			
Ahead	= S 42° 39' 36.93" W			
Chord Bear	= S 44° 07' 40.43" W			

Course from PT SBFM973-8 to SB97302 S 42° 39' 36.93" W Dist 188.9054

Point SB97302 N 10,045,851.3380 E 3,145,730.7364 Sta 4155+73.02

Ending chain SBFM973 description

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Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

HORIZONTAL
ALIGNMENT DATA



Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

Texas Department of Transportation			
SHEET 6 OF 7			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			47
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

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BL WB-EB TURNAROUND AT PRESIDENTIAL

<* 1 Describe Chain UWEPRES

Chain UWEPRES contains:
UWEPRES10 CUR UWEPRES-1 CUR UWEPRES-2 UWEPRES02

Beginning chain UWEPRES description

Point UWEPRES10 N 10,052,370.4742 E 3,141,936.1016 Sta 9+00.00

Course from UWEPRES10 to PC UWEPRES-1 N 60° 58' 31.15" W Dist 100.0000

Curve Data

Curve UWEPRES-1
P.I. Station 10+46.04 N 10,052,441.3634 E 3,141,808.4229
Delta = 90° 02' 51.06" (LT)
Degree = 124° 33' 21.75"
Tangent = 46.0382
Length = 72.2948
Radius = 46.0000
External = 19.0808
Long Chord = 65.0808
Mtd. Ord. = 13.4866
P.C. Station 10+00.00 N 10,052,418.9928 E 3,141,848.6606
P.T. Station 10+72.29 N 10,052,401.1072 E 3,141,786.0857
C.C. Station 10,052,378.7885 E 3,141,826.3085
Back = N 60° 55' 39.50" W
Ahead = S 29° 01' 29.44" W
Chord Bear = S 74° 02' 54.97" W

Course from PT UWEPRES-1 to PC UWEPRES-2 S 29° 01' 29.37" W Dist 55.0353

Curve Data

Curve UWEPRES-2
P.I. Station 11+73.54 N 10,052,312.5798 E 3,141,736.9640
Delta = 85° 29' 05.20" (LT)
Degree = 114° 35' 29.61"
Tangent = 46.2072
Length = 74.5995
Radius = 50.0000
External = 18.0816
Long Chord = 67.8703
Mtd. Ord. = 13.2794
P.C. Station 11+27.33 N 10,052,352.9838 E 3,141,759.3832
P.T. Station 12+01.93 N 10,052,287.0494 E 3,141,775.4777
C.C. Station 10,052,328.7244 E 3,141,803.1037
Back = S 29° 01' 29.40" W
Ahead = S 56° 27' 35.80" E
Chord Bear = S 13° 43' 03.20" E

Course from PT UWEPRES-2 to UWEPRES02 S 56° 27' 35.61" E Dist 94.4182

Point UWEPRES02 N 10,052,234.8814 E 3,141,854.1752 Sta 12+96.35

Ending chain UWEPRES description

BL EB-WB TURNAROUND AT FM 973

<* 1 Describe Chain UEWM973

Chain UEWM973 contains:
CUR UEWM973-1 CUR UEWM973-2

Beginning chain UEWM973 description

Curve Data

Curve UEWM973-1
P.I. Station 10+95.79 N 10,048,905.9296 E 3,147,680.9571
Delta = 104° 59' 59.99" (LT)
Degree = 77° 57' 12.39"
Tangent = 95.7871
Length = 134.6958
Radius = 73.5000
External = 47.2370
Long Chord = 116.6229
Mtd. Ord. = 28.7560
P.C. Station 10+00.00 N 10,048,952.4042 E 3,147,597.1999
P.T. Station 11+34.70 N 10,048,998.8613 E 3,147,704.1702
C.C. Station 10,049,016.6734 E 3,147,632.8612
Back = S 60° 58' 31.00" E
Ahead = N 14° 01' 29.00" E
Chord Bear = N 66° 31' 29.00" E

Course from PT UEWM973-1 to PC UEWM973-2 N 14° 01' 29.00" E Dist 104.0754

Curve Data

Curve UEWM973-2
P.I. Station 12+75.99 N 10,049,135.9405 E 3,147,738.4107
Delta = 75° 00' 00.45" (LT)
Degree = 118° 08' 08.26"
Tangent = 37.2154
Length = 63.4865
Radius = 48.5000
External = 12.6330
Long Chord = 59.0499
Mtd. Ord. = 10.0224
P.C. Station 12+38.77 N 10,049,099.8344 E 3,147,729.3919
P.T. Station 13+02.26 N 10,049,153.9968 E 3,147,705.8691
C.C. Station 10,049,111.5879 E 3,147,682.3376
Back = N 14° 01' 29.00" E
Ahead = N 60° 58' 31.45" W
Chord Bear = N 23° 28' 31.22" W

Ending chain UEWM973 description

BL WB-EB TURNAROUND AT FM 973

<* 1 Describe Chain UEWM973

Chain UEWM973 contains:
CUR UEWM973-1 CUR UEWM973-2

Beginning chain UEWM973 description

Curve Data

Curve UEWM973-1
P.I. Station 10+89.27 N 10,049,008.3571 E 3,147,942.5781
Delta = 104° 59' 59.89" (LT)
Degree = 83° 38' 36.51"
Tangent = 89.2709
Length = 125.5328
Radius = 68.5000
External = 44.0235
Long Chord = 108.6894
Mtd. Ord. = 26.7998
P.C. Station 10+00.00 N 10,048,965.0441 E 3,148,020.6375
P.T. Station 11+25.53 N 10,048,921.7472 E 3,147,920.9441
C.C. Station 10,048,905.1469 E 3,147,987.4022
Back = N 60° 58' 31.11" W
Ahead = S 14° 01' 29.00" W
Chord Bear = S 66° 31' 28.95" W

Course from PT UEWM973-1 to PC UEWM973-2 S 14° 01' 29.00" W Dist 121.9812

Curve Data

Curve UEWM973-2
P.I. Station 12+84.73 N 10,048,767.2962 E 3,147,882.3644
Delta = 74° 59' 59.90" (LT)
Degree = 118° 08' 08.26"
Tangent = 37.2153
Length = 63.4863
Radius = 48.5000
External = 12.6329
Long Chord = 59.0498
Mtd. Ord. = 10.0224
P.C. Station 12+47.51 N 10,048,803.4022 E 3,147,891.3831
P.T. Station 13+11.00 N 10,048,749.2398 E 3,147,914.9058
C.C. Station 10,048,791.6487 E 3,147,938.4374
Back = S 14° 01' 29.00" W
Ahead = S 60° 58' 30.90" E
Chord Bear = S 23° 28' 30.95" E

Ending chain UEWM973 description

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Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

HORIZONTAL
ALIGNMENT DATA



Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

Texas Department of Transportation			
SHEET 7 OF 7			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			48
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

PI STATION	RADIUS OF CURVE (FT)	(FT/FT)	SUPER ELEVATION %	LENGTH OF TRANSITION (FT)	BEGIN TRANSITION STATION	BEGIN FULL SUPER ELEVATION STATION	END FULL SUPER ELEVATION STATION	END TRANSITION STATION	CURVE DIRECTION
11189+81.27	5,685.00	0.06	2.70	282.00	11179+02.00	11181+84.00	11197+65.00	11200+47.00	RT.
11220+93.94	8,000.00	0.06	2.00	240.00	11216+88.00	11219+28.00	11222+40.00	11224+80.58	RT.

PI STATION	RADIUS OF CURVE (FT)	(FT/FT)	SUPER ELEVATION %	LENGTH OF TRANSITION (FT)	BEGIN TRANSITION STATION	BEGIN FULL SUPER ELEVATION STATION	END FULL SUPER ELEVATION STATION	END TRANSITION STATION	CURVE DIRECTION
11189+81.27	5,685.00	0.06	2.70	12.00	11180+85.00	11180+97.00	11198+54.00	11198+66.00	RT.

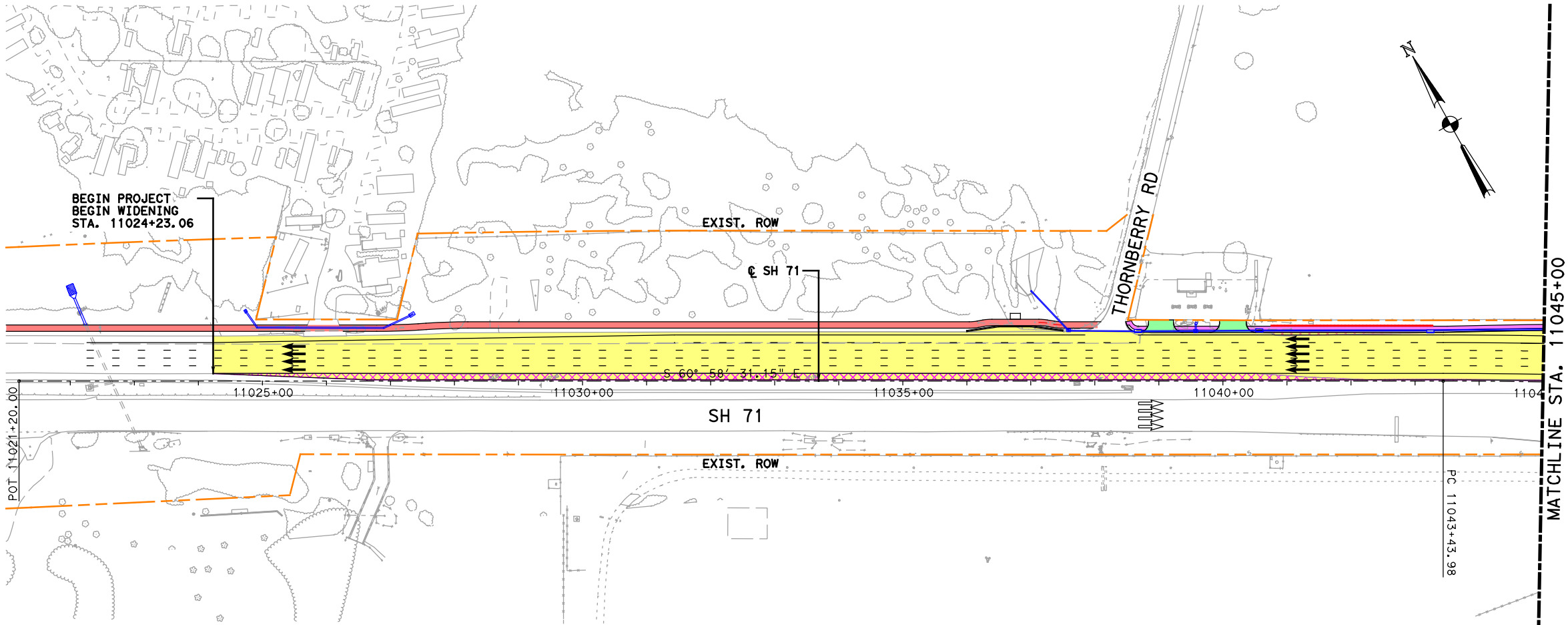
PI STATION	RADIUS OF CURVE (FT)	(FT/FT)	SUPER ELEVATION %	LENGTH OF TRANSITION (FT)	BEGIN TRANSITION STATION	BEGIN FULL SUPER ELEVATION STATION	END FULL SUPER ELEVATION STATION	END TRANSITION STATION	CURVE DIRECTION
24+11.63	1,500.00	0.06	5.00	120.00	21+02.00	22+57.00	25+72.00	26+92.00	RT.

PI STATION	RADIUS OF CURVE (FT)	(FT/FT)	SUPER ELEVATION %	LENGTH OF TRANSITION (FT)	BEGIN TRANSITION STATION	BEGIN FULL SUPER ELEVATION STATION	END FULL SUPER ELEVATION STATION	END TRANSITION STATION	CURVE DIRECTION
34+74.35	3,000.00	0.06	3.40	285.00	32+25.00	32+45.00	36+61.00	39+46.00	RT.

Lockwood, Andrews & Newnam, Inc. ID No. 2614

*SUPER
ELEVATION DATA*





LEGEND

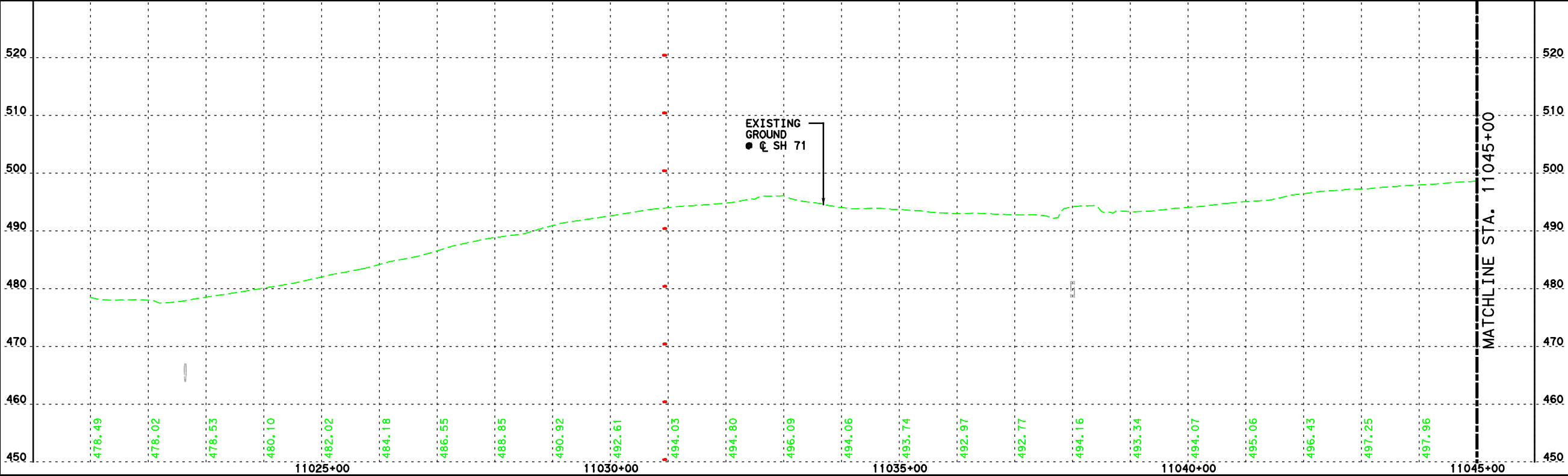
- ALIGNMENT
- EXISTING ROW
- PROPOSED ROW
- CONTROL OF ACCESS
- FUTURE CONTROL OF ACCESS
- TOPO
- BRIDGE
- PROP SIDEWALK
- BIKE & PED FACILITY
- PROP DRIVEWAY
- PROP TOLL
- PROP NON-TOLL
- PAVEMENT TO BE REMOVED
- PROP WIDENING
- DIRECTIONAL ARROW
- PROP DRAINAGE FEATURE
- RETAINING WALL

NOTES:

- EXISTING PAVEMENT TO REMAIN UNLESS OTHERWISE NOTED.
- OVERLAY LIMITS AS PER TECHNICAL PROVISIONS ATTACHMENT 11-3 ADDENDUM NO. 3.

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SH 71
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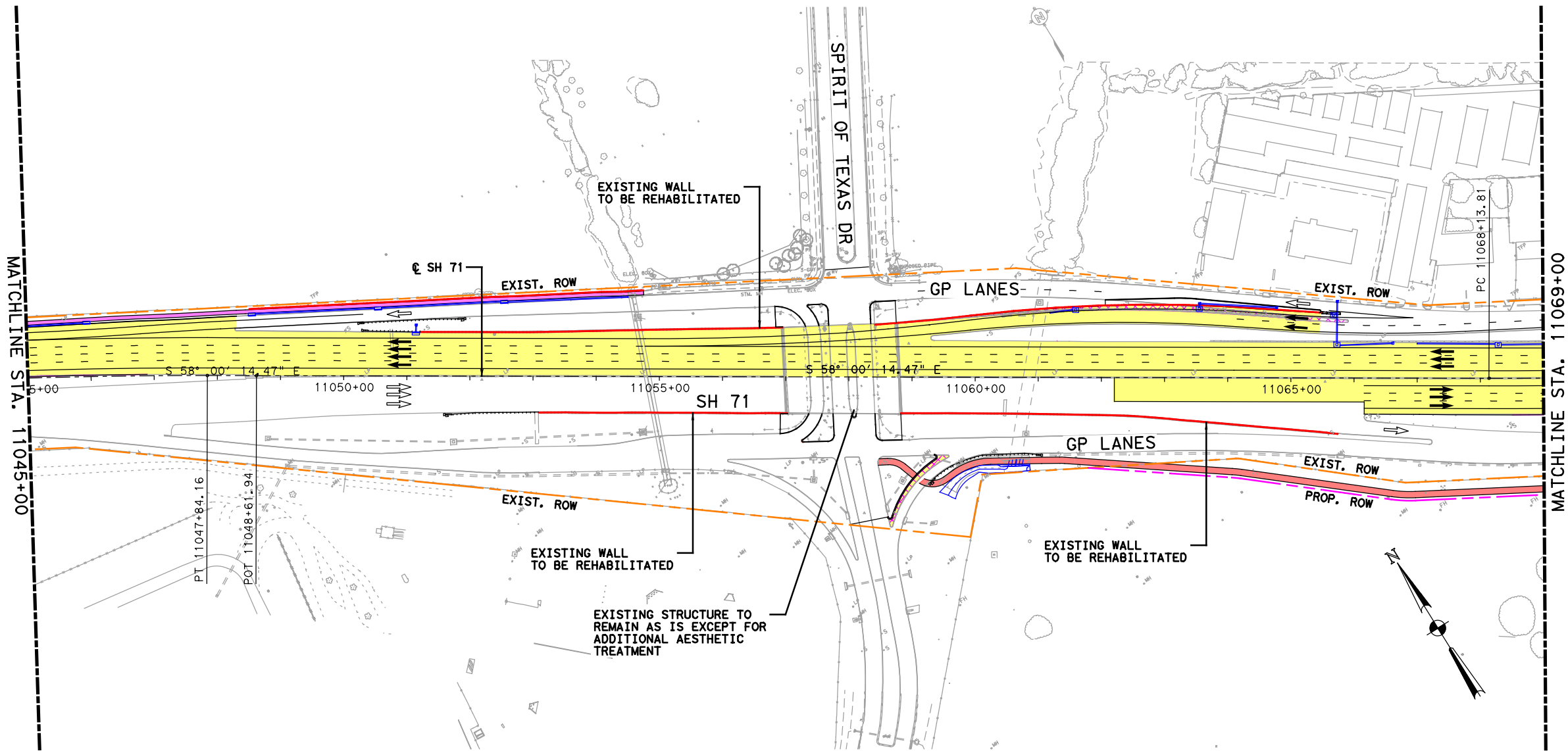


Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.	
6				50	
STATE	DIST. NO.	COUNTY			
TEXAS		TRAVIS			
CONF.	SECT.	JOB	HIGHWAY NO.		
			SH 71		

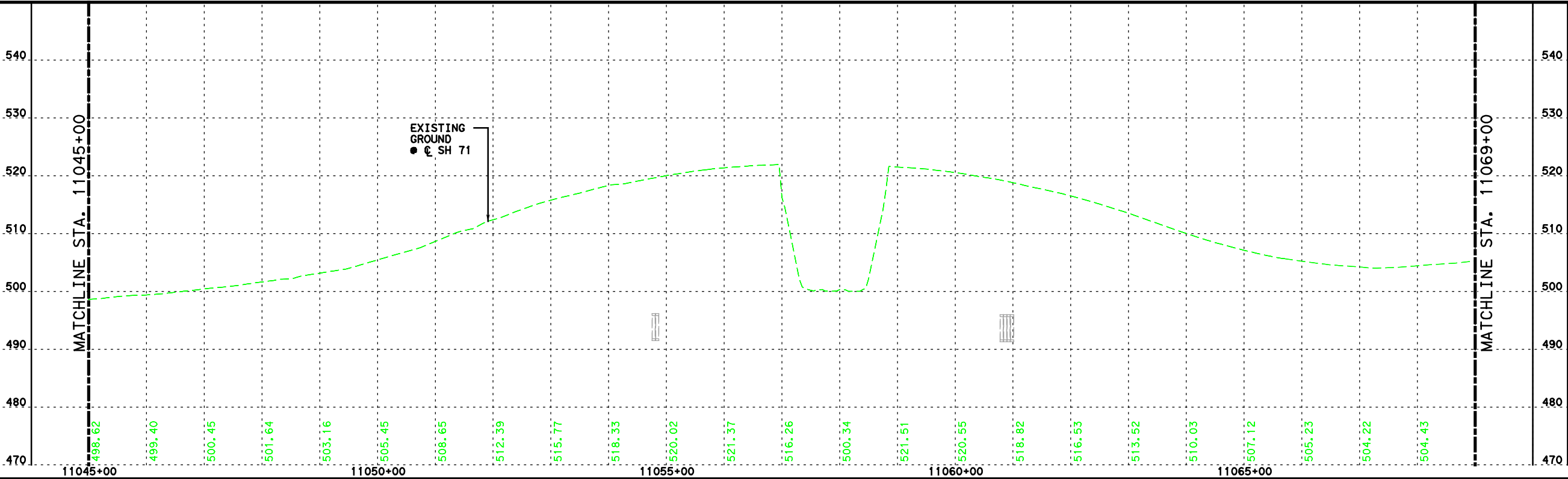


- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
 - PROP TOLL
 - PROP NON-TOLL
 - PAVEMENT TO BE REMOVED
 - PROP WIDENING
 - DIRECTIONAL ARROW
 - PROP DRAINAGE FEATURE
 - RETAINING WALL

- NOTES:**
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SH 71
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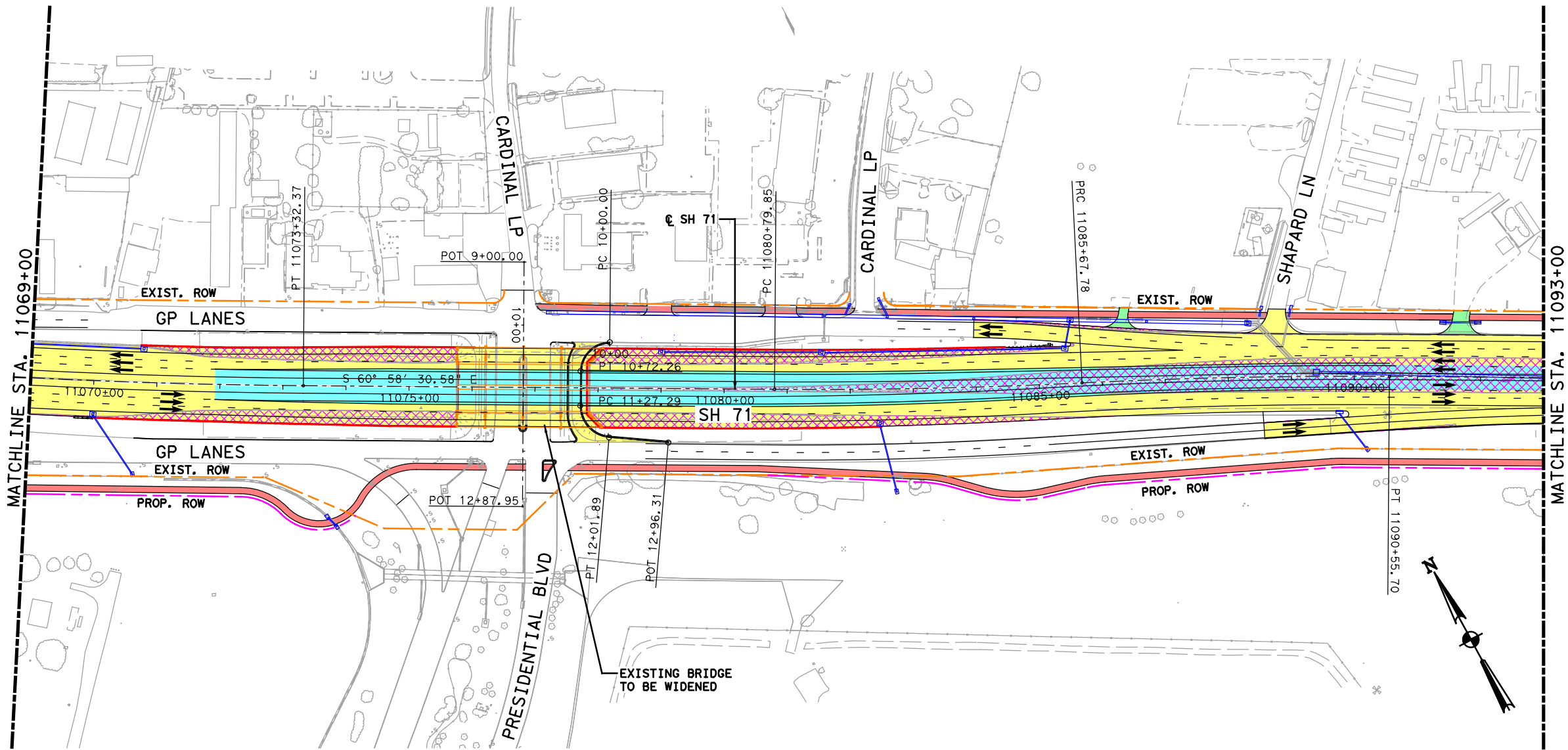
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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

SHEET 2 OF 3

FED. RD. DIST. NO.	STATE AID PROJECT			SHEET NO.
6				5
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

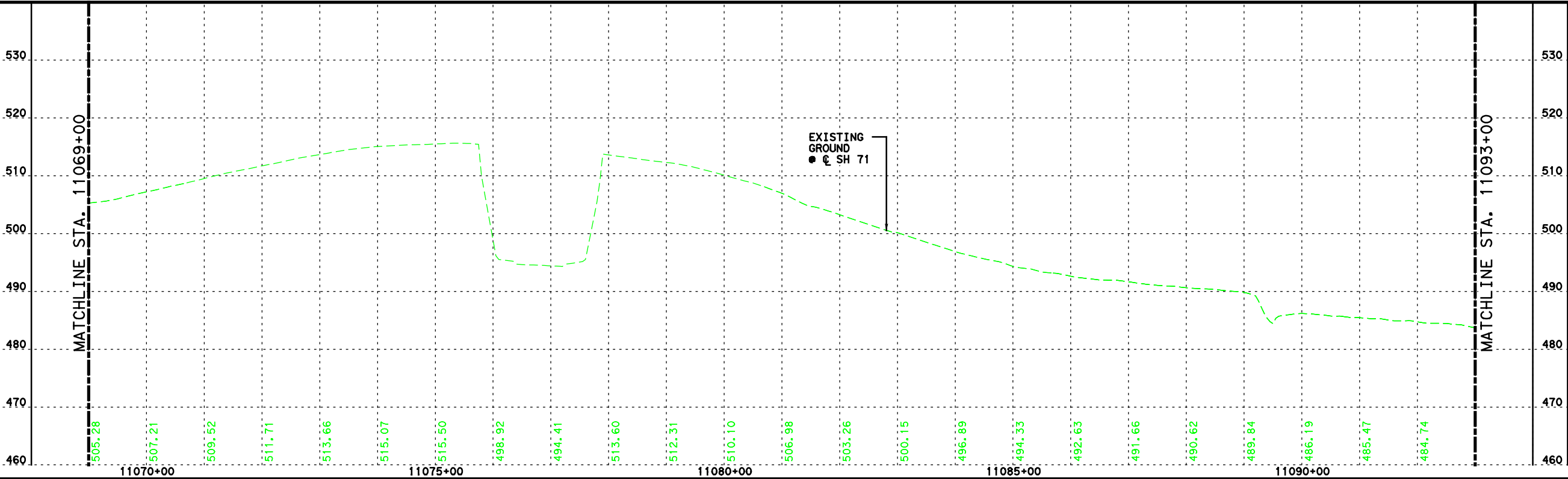


- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
 - PROP TOLL
 - PROP NON-TOLL
 - PAVEMENT TO BE REMOVED
 - PROP WIDENING
 - DIRECTIONAL ARROW
 - PROP DRAINAGE FEATURE
 - RETAINING WALL

- NOTES:**
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 - OVERLAY LIMITS AS PER TECHNICAL PROVISIONS ATTACHMENT 11-3 ADDENDUM NO. 3.

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SH 71
P&P

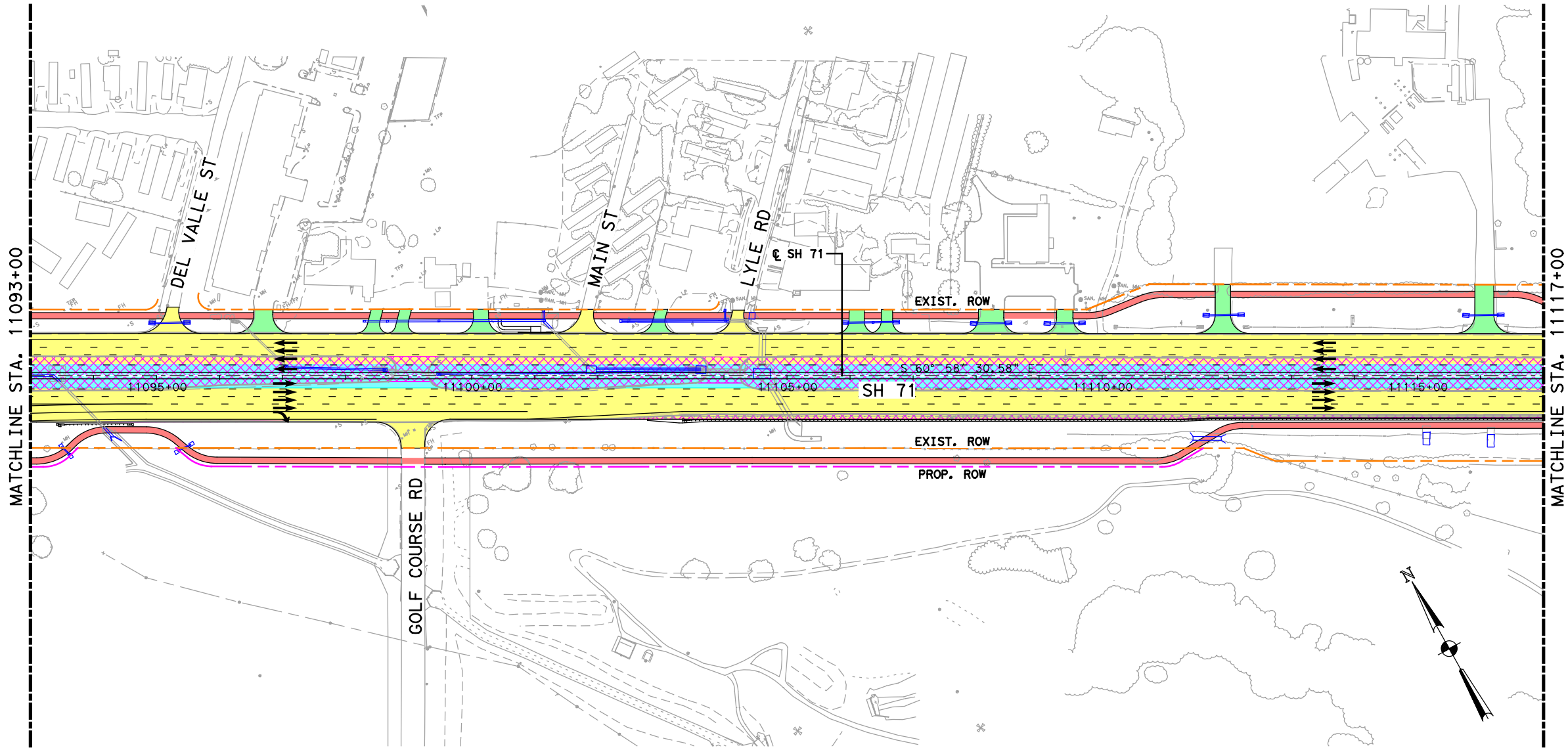
MCCARTHY

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.	
6				52	
STATE	STATE DIST. NO.	COUNTY			
TEXAS		TRAVIS			
CONF.	SECT.	JOB	REPAIR NO.		
			SH 71		

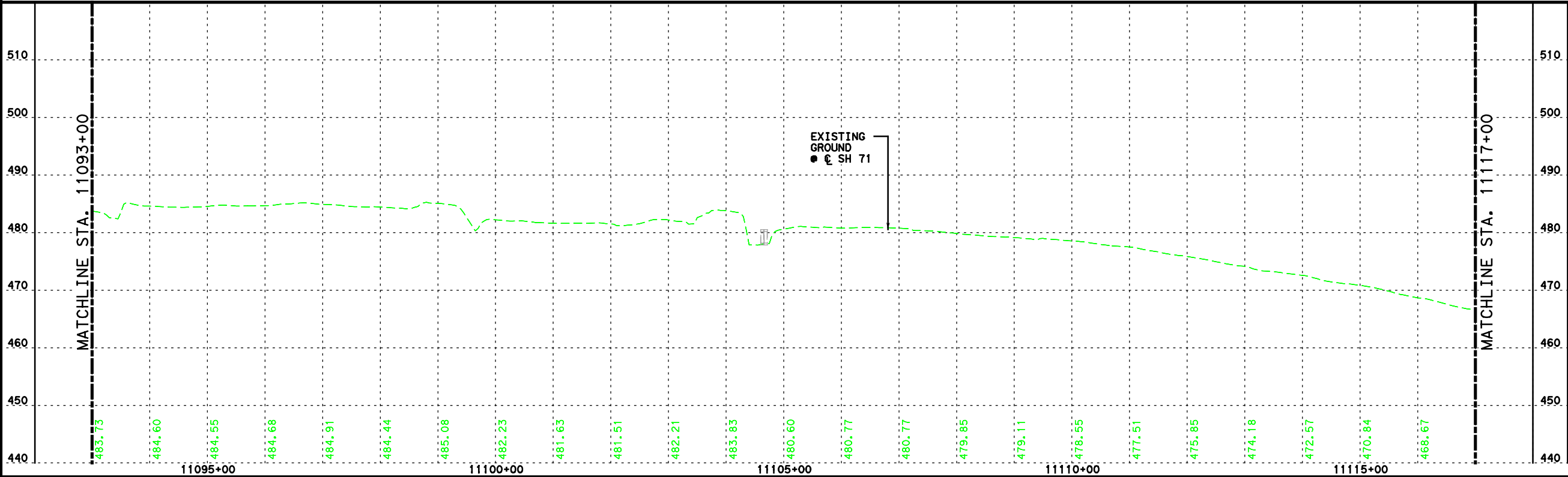


- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
 - PROP TOLL
 - PROP NON-TOLL
 - PAVEMENT TO BE REMOVED
 - PROP WIDENING
 - DIRECTIONAL ARROW
 - PROP DRAINAGE FEATURE
 - RETAINING WALL

- NOTES:**
- EXISTING PAVEMENT TO REMAIN UNLESS OTHERWISE NOTED.
 - OVERLAY LIMITS AS PER TECHNICAL PROVISIONS ATTACHMENT 11-3 ADDENDUM NO. 3.

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SH 71
P&P

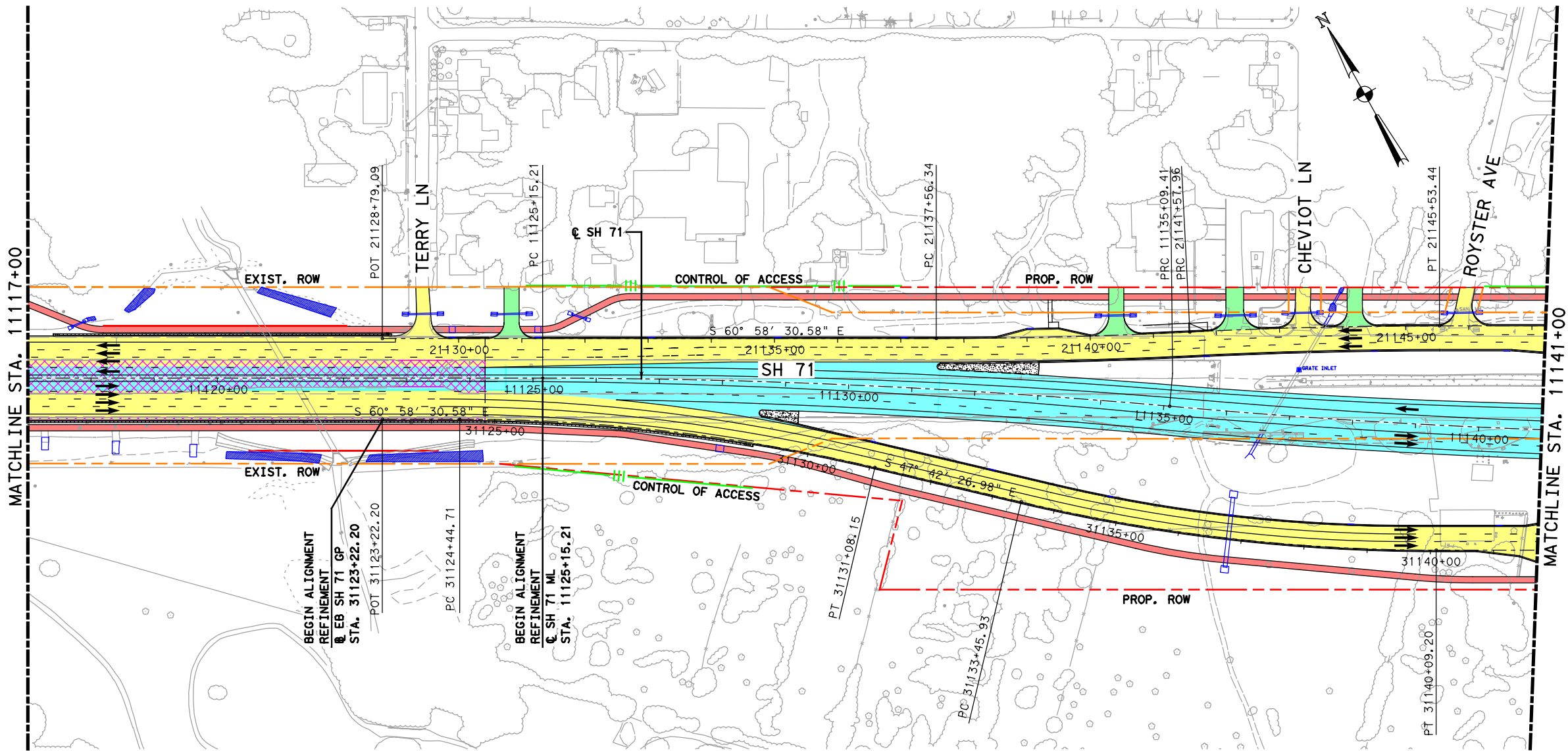
MCCARTHY

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.	
6				53	
STATE	STATE DIST. NO.	COUNTY			
TEXAS		TRAVIS			
CONF.	SECT.	JOB	REPAIR NO.		
			SH 71		

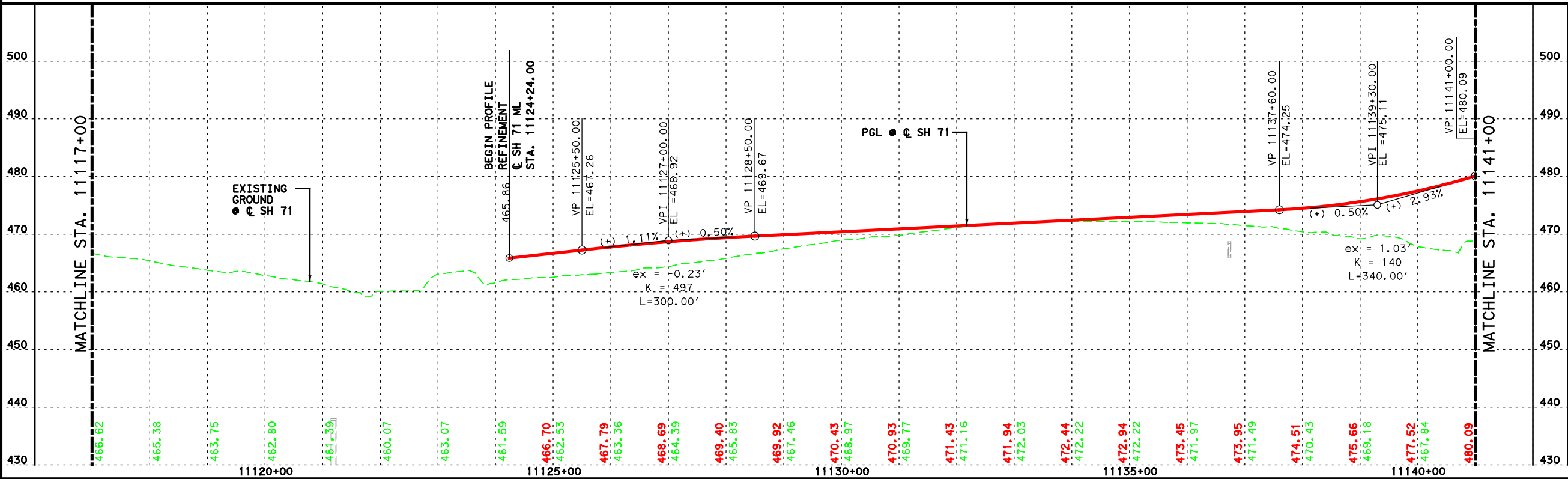


- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
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SH 71
P&P

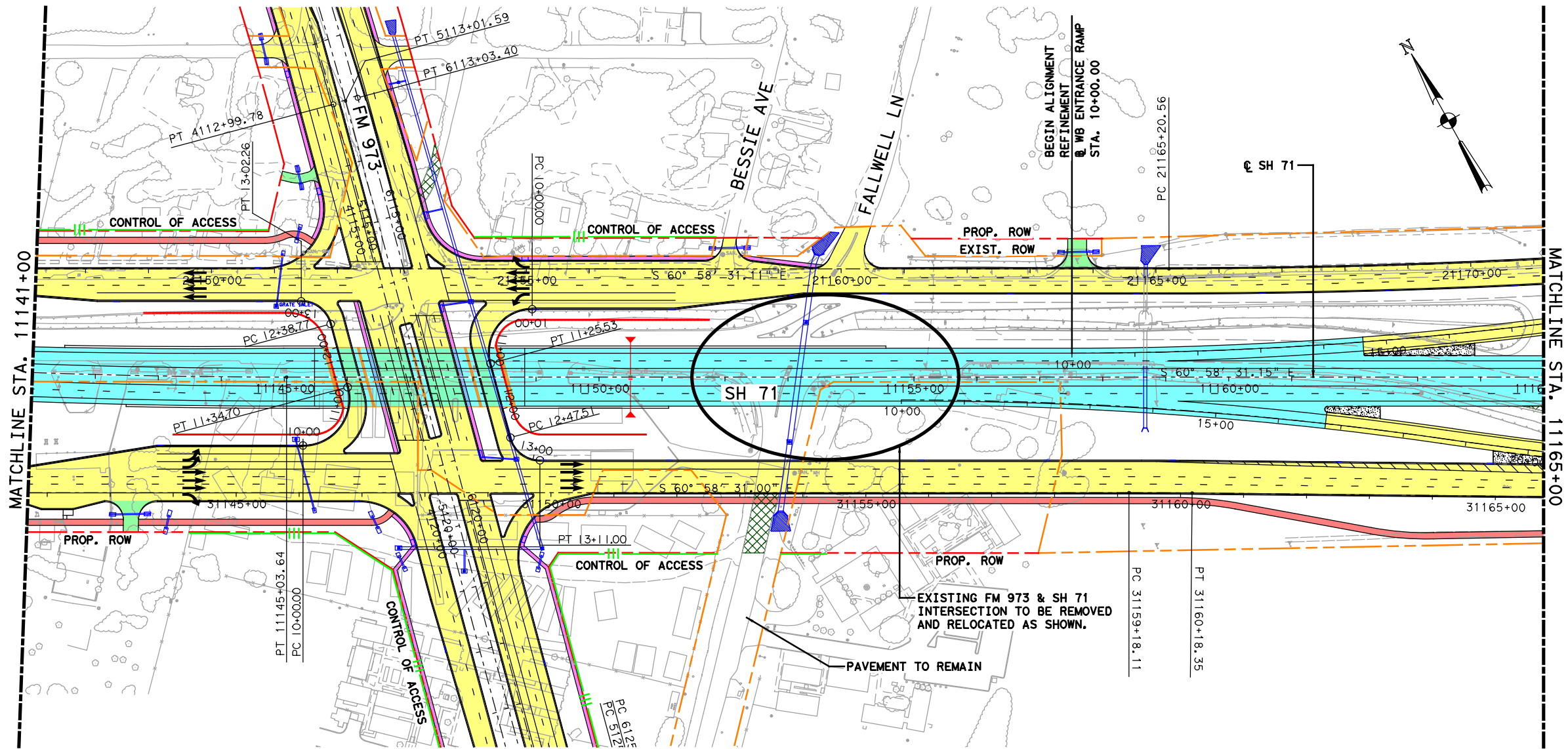
MCCARTHY

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.	
6				54	
STATE	STATE DIST. NO.	COUNTY			
TEXAS		TRAVIS			
CONF.	SECT.	JOB	HIGHWAY NO.		
			SH 71		

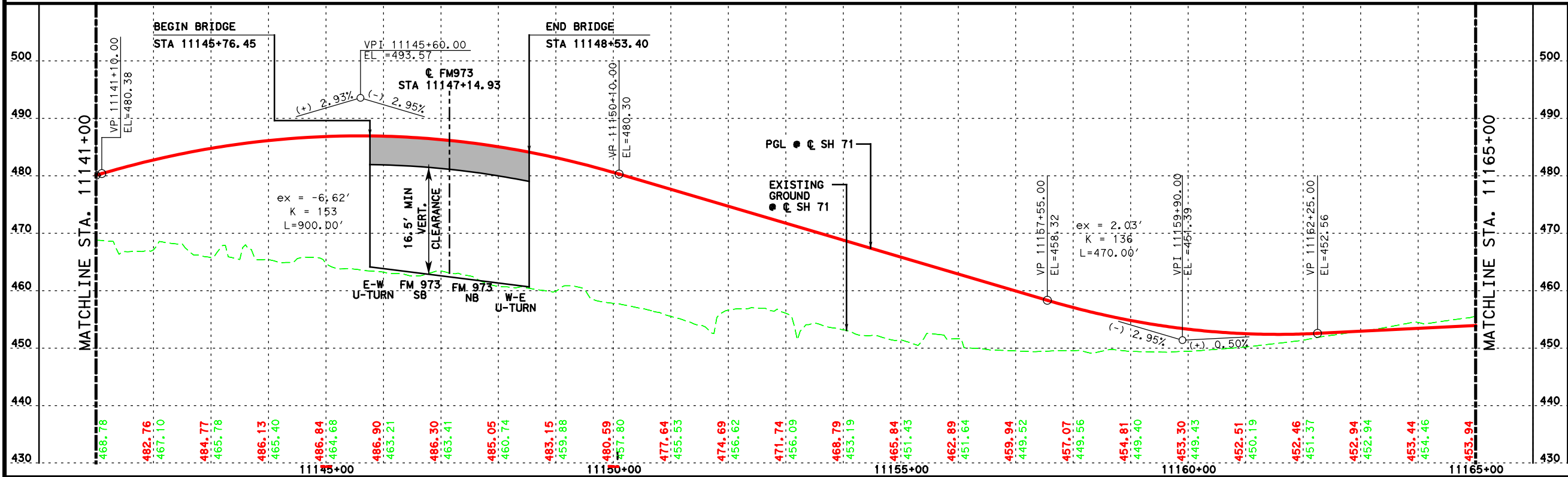


- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
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SH 71
P&P

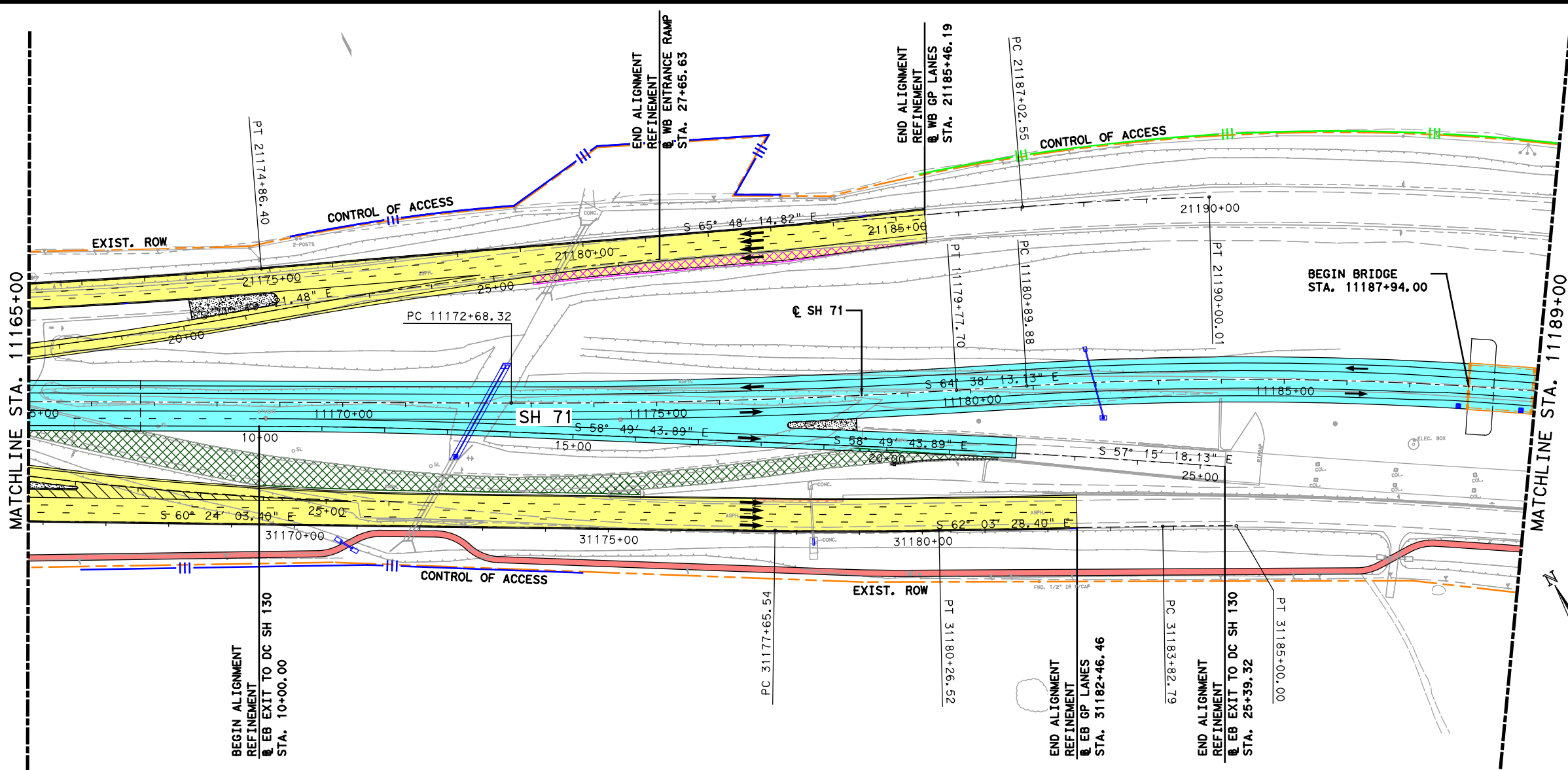
MCCARTHY

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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

SHEET 6 OF 9	
FED. RD. DIST. NO.	STATE AID PROJECT
6	
STATE	COUNTY
TEXAS	TRAVIS
CONF.	RECORD
	JOB
	REMARKS
	SH 71

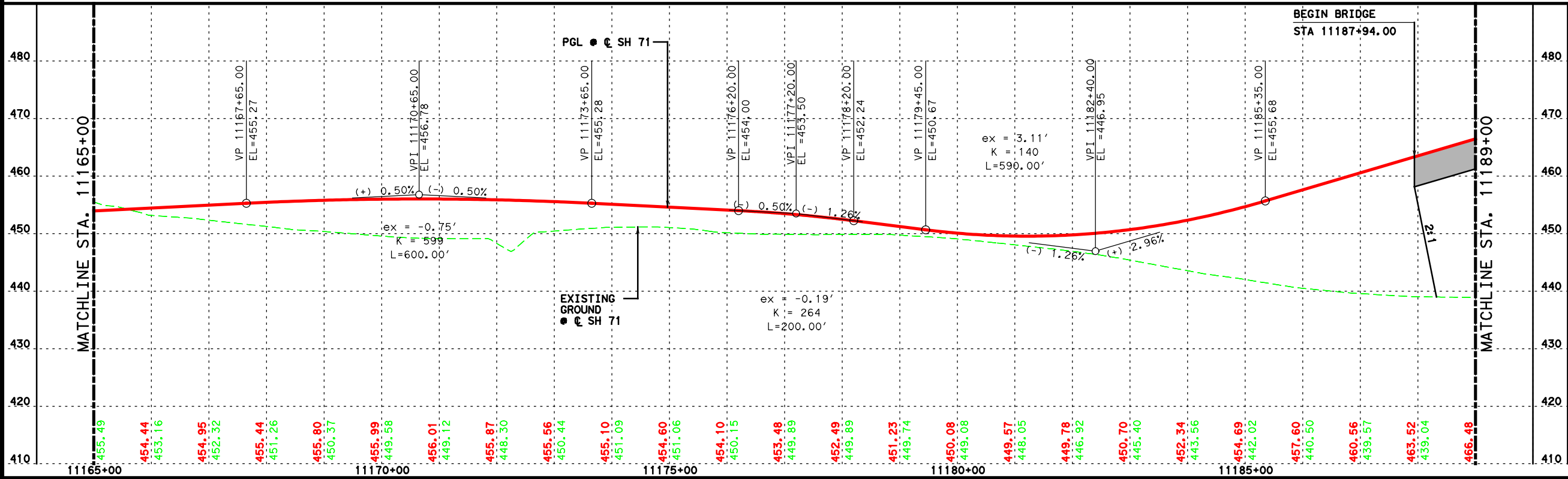


- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
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SH 71
P&P

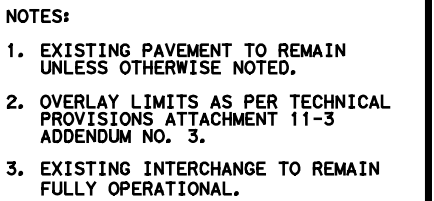
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TBPE Firm No. 2614

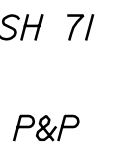
SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

SHEET 7 OF 9	
FED. RD. DIST. NO.	STATE AID PROJECT
6	
STATE	COUNTY
TEXAS	TRAVIS
CONF.	RECORD
	JOB
	REMARKS NO.
	SH 71



Lockwood, Andrews & Newnam, Inc. ID No. 2614

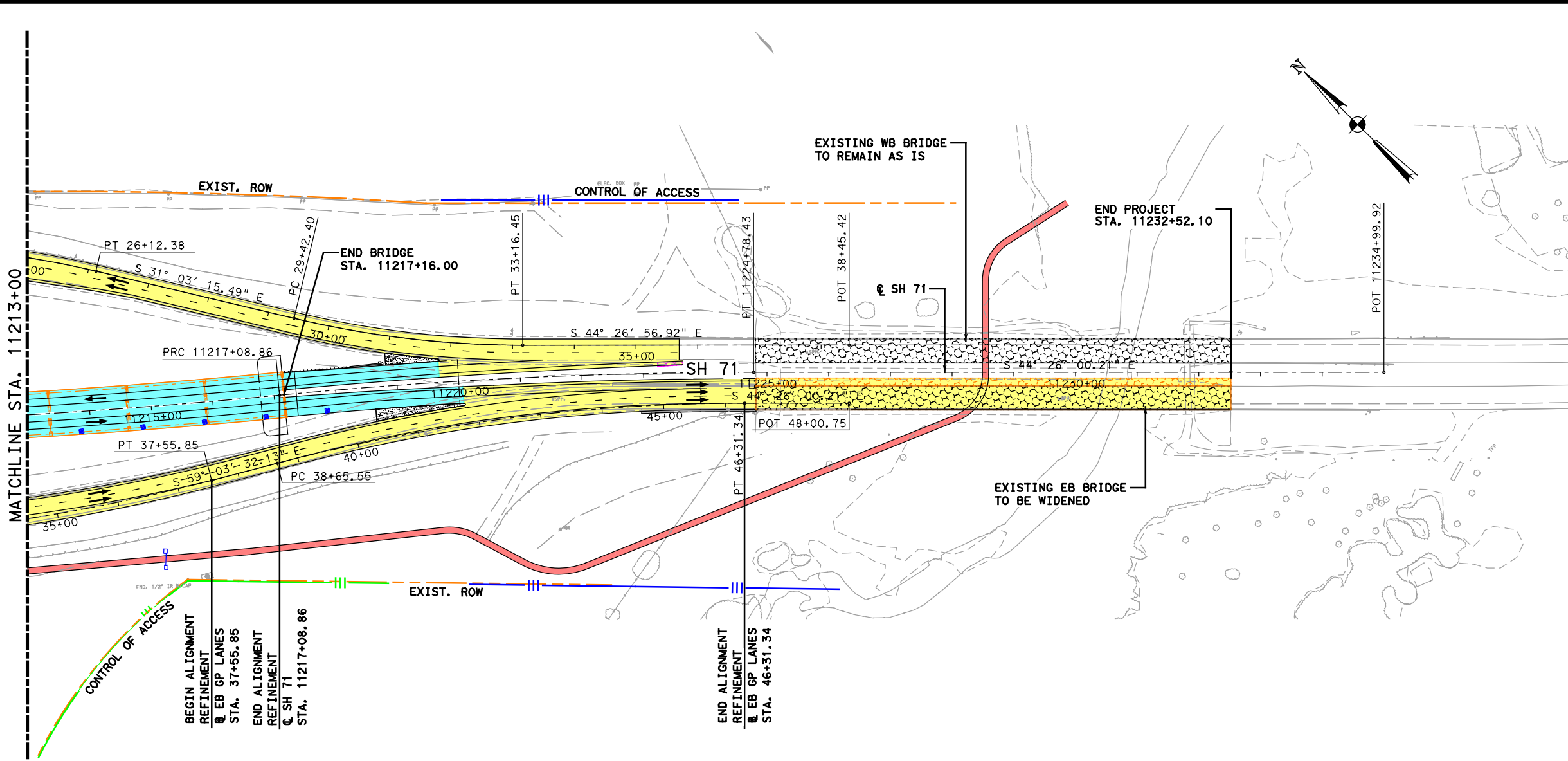


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& Newnam, Inc.**
A LEO A DALY COMPANY
TBPE Firm No. 2614



Texas Department of Transportation

FED. RD. DIST. NO.	STATE AID PROJECT			SHEET NO.
6				57
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
COUNT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



LEGEND

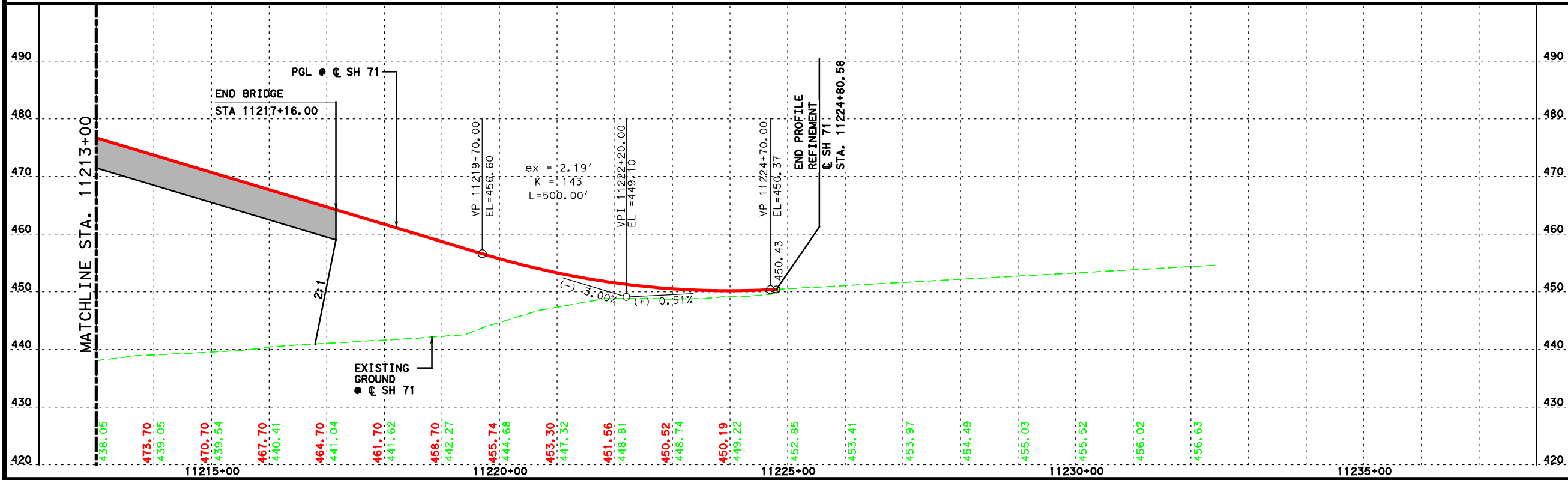
- ALIGNMENT
- EXISTING ROW
- PROPOSED ROW
- CONTROL OF ACCESS
- FUTURE CONTROL OF ACCESS
- TOPO
- BRIDGE
- PROP SIDEWALK
- BIKE & PED FACILITY
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SH 71
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TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

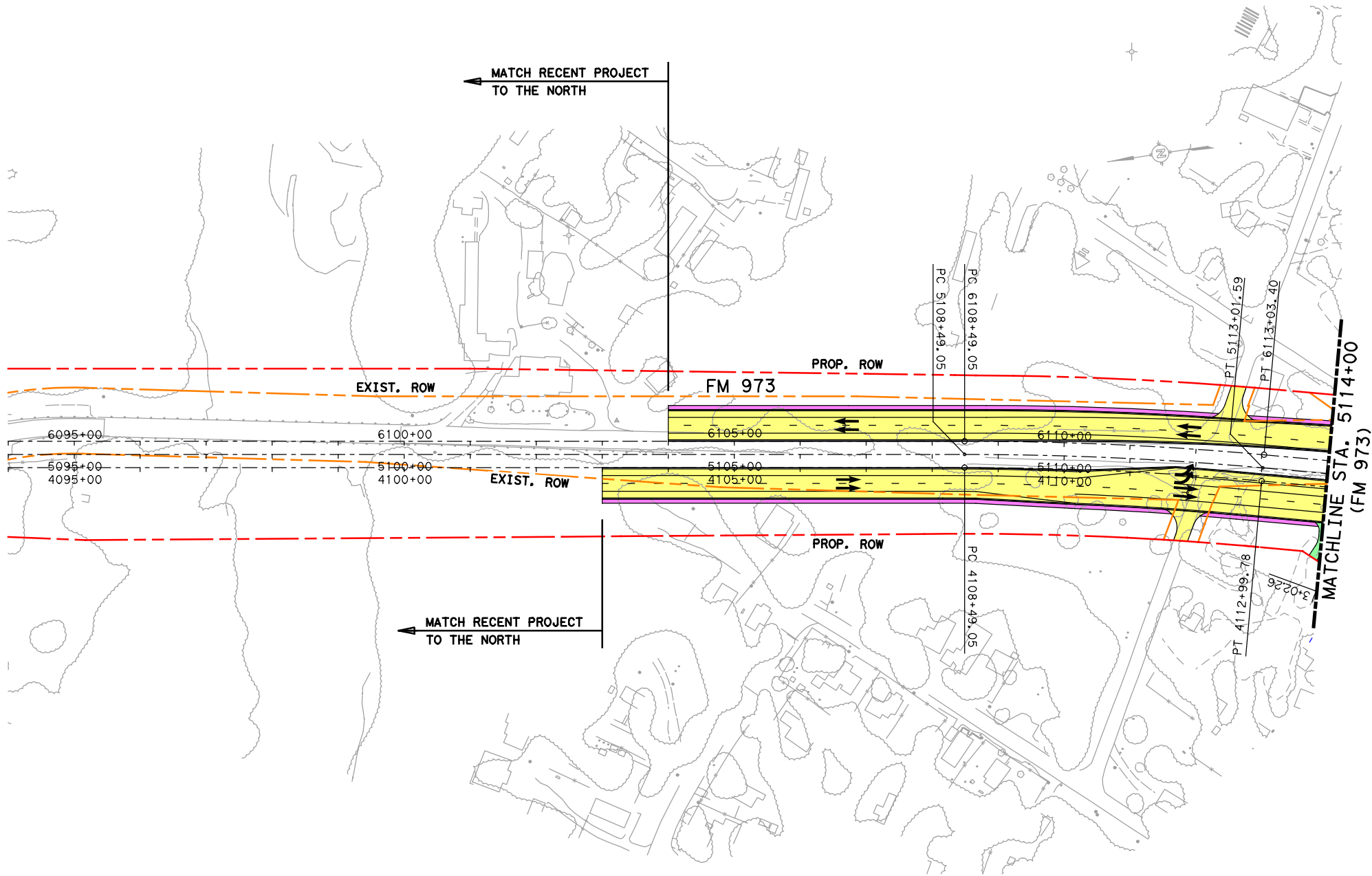
Texas Department of Transportation

SHEET 9 OF 9

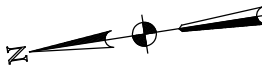
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6		58

STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS

CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
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FM 973

PLAN

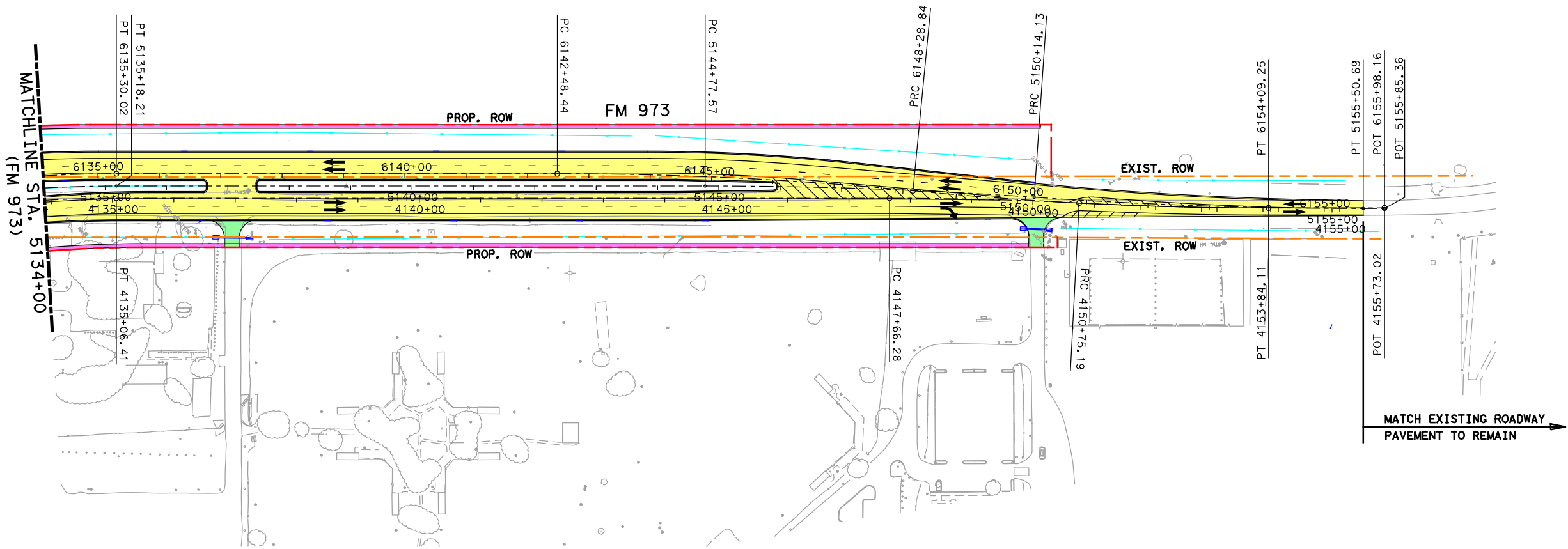


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TBPE Firm No. 2614

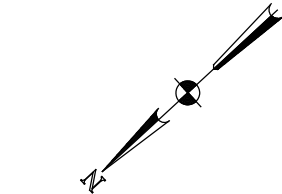
SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIV. NO.		STATE AID PROJECT		SHEET NO.
6				59
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
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FM 973

PLAN



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TBPE Firm No. 2614

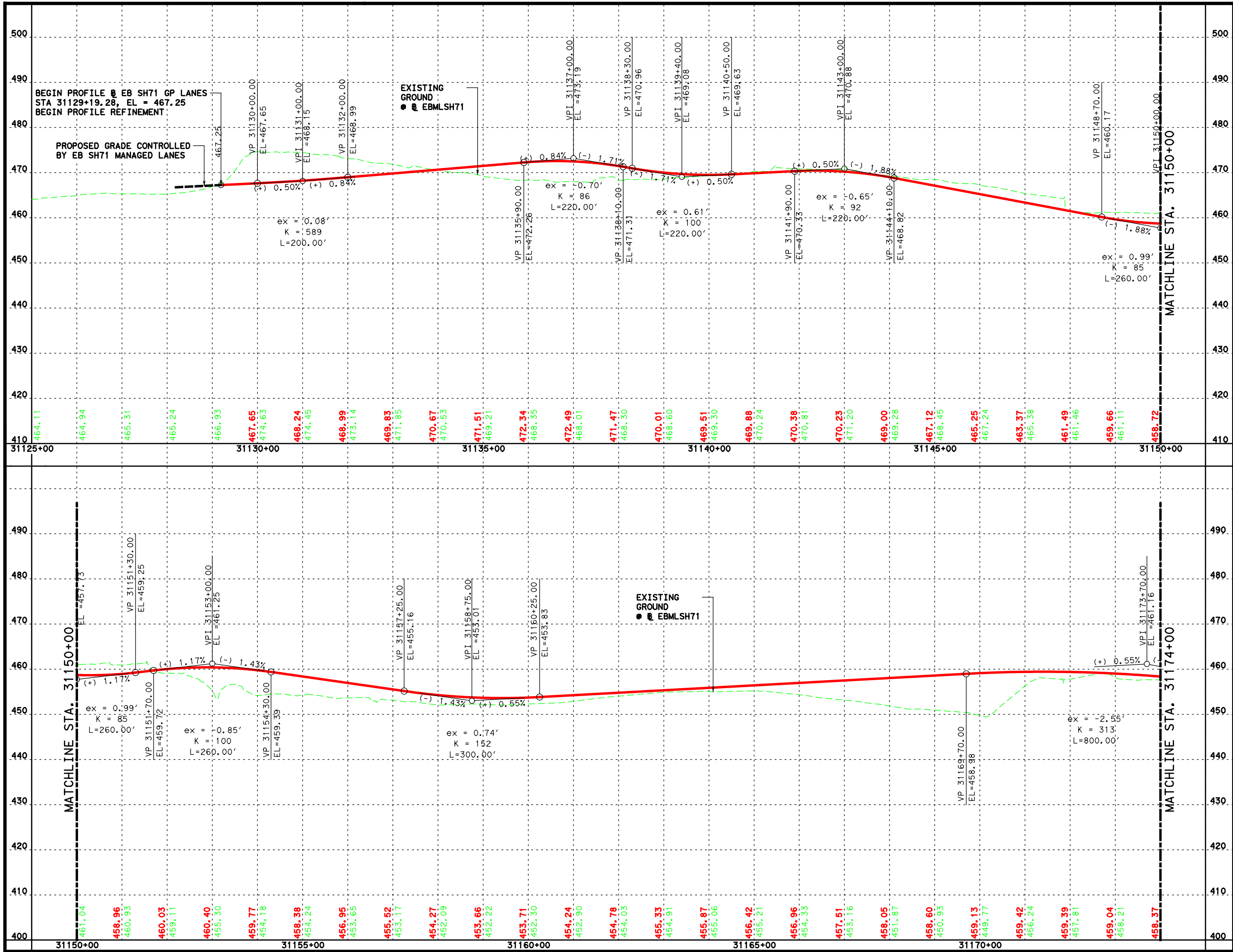
SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

SHEET 3 OF 3

FED. RD. DIST. NO.	STATE AID PROJECT	SHEET NO.
6		61
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONF.	SECT.	JOB
		SH 71

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Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

EB PROFILE
GENERAL PURPOSE

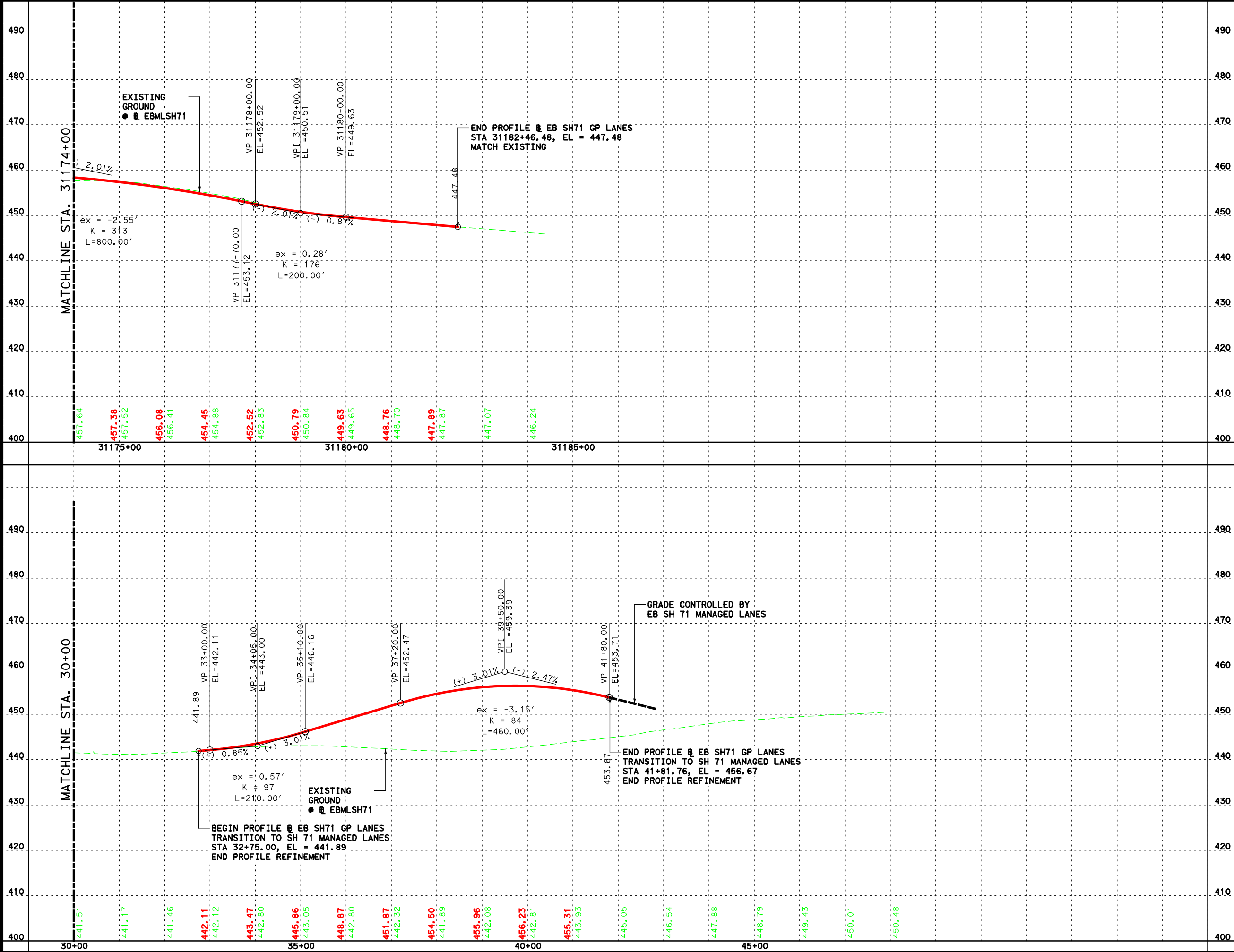


SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'



SHEET 1 OF 2

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				62
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
COUNT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

EB PROFILE
GENERAL PURPOSE

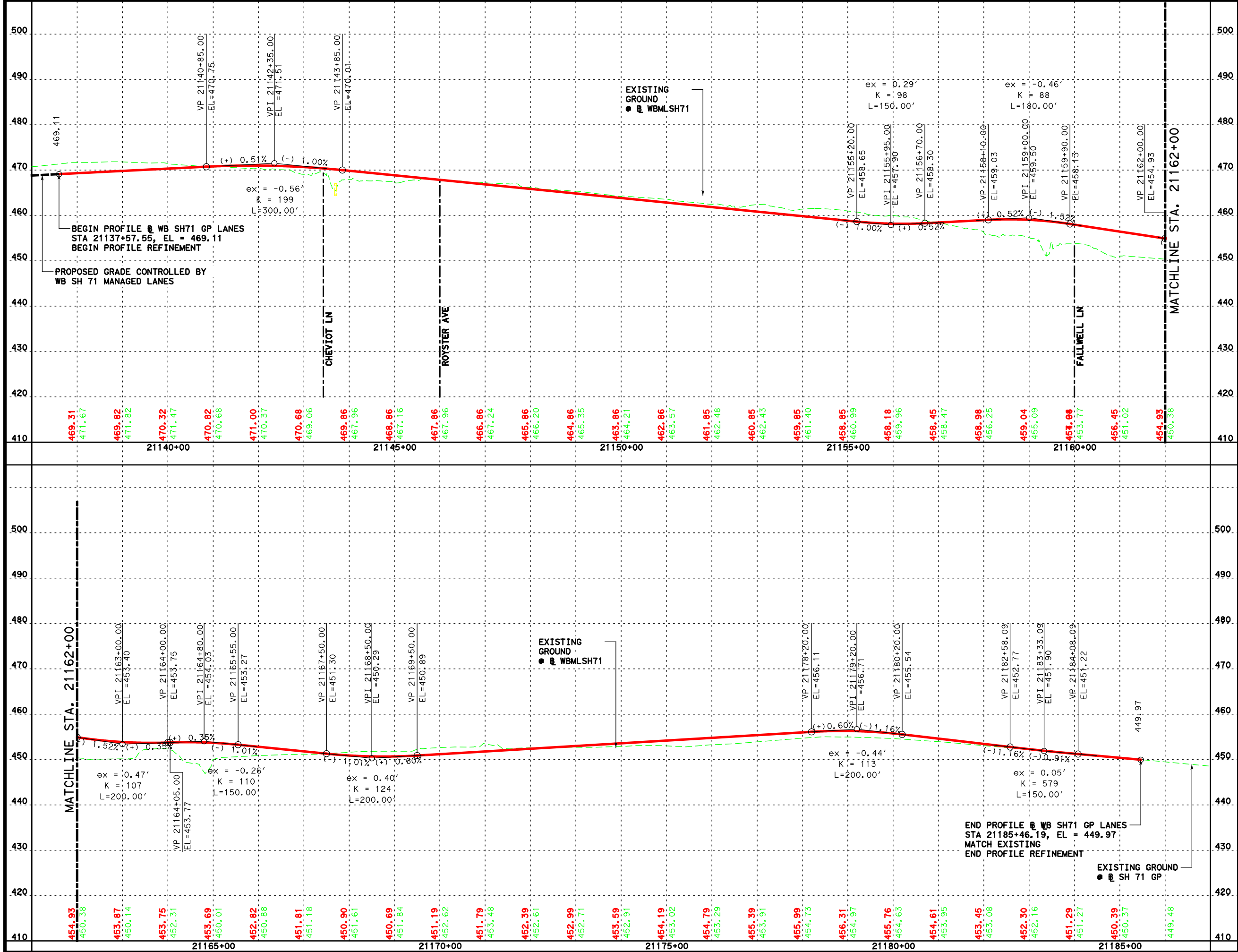


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& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				63
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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SH 71
WB PROFILE
GENERAL PURPOSE

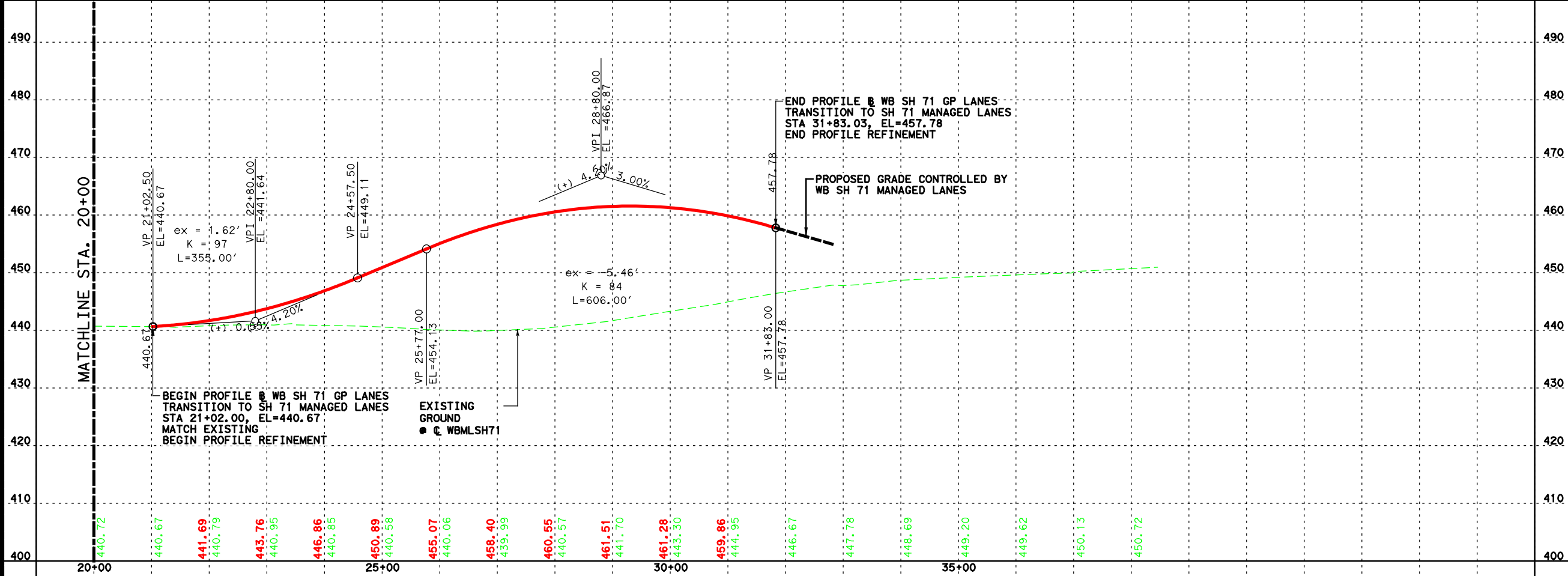


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TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

SHEET NO. OF 2	
FED. RD. DIST. NO.	STATE AID PROJECT
6	
STATE	COUNTY
TEXAS	TRAVIS
CONF.	RECORD
	JOB
	REPAIR NO.
	SH 71



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SH 71
WB PROFILE
GENERAL PURPOSE

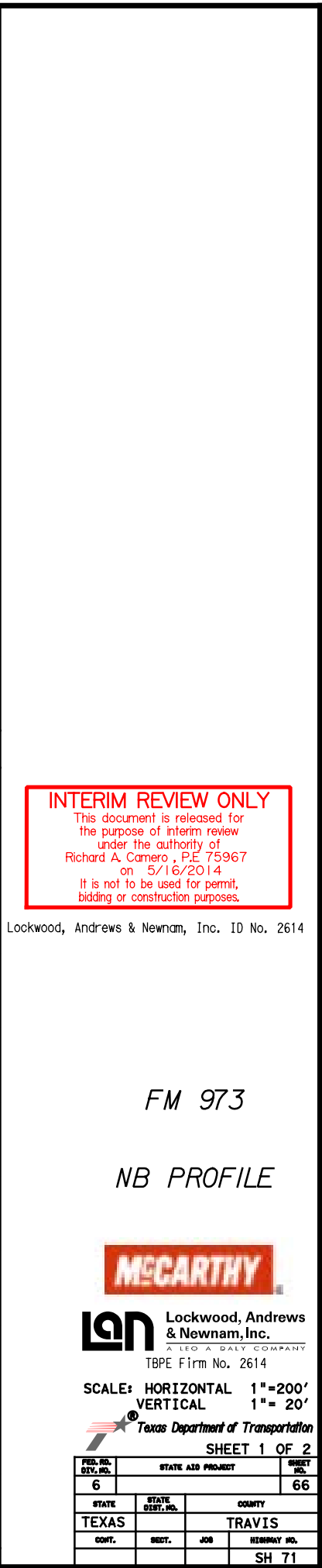


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SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				65
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



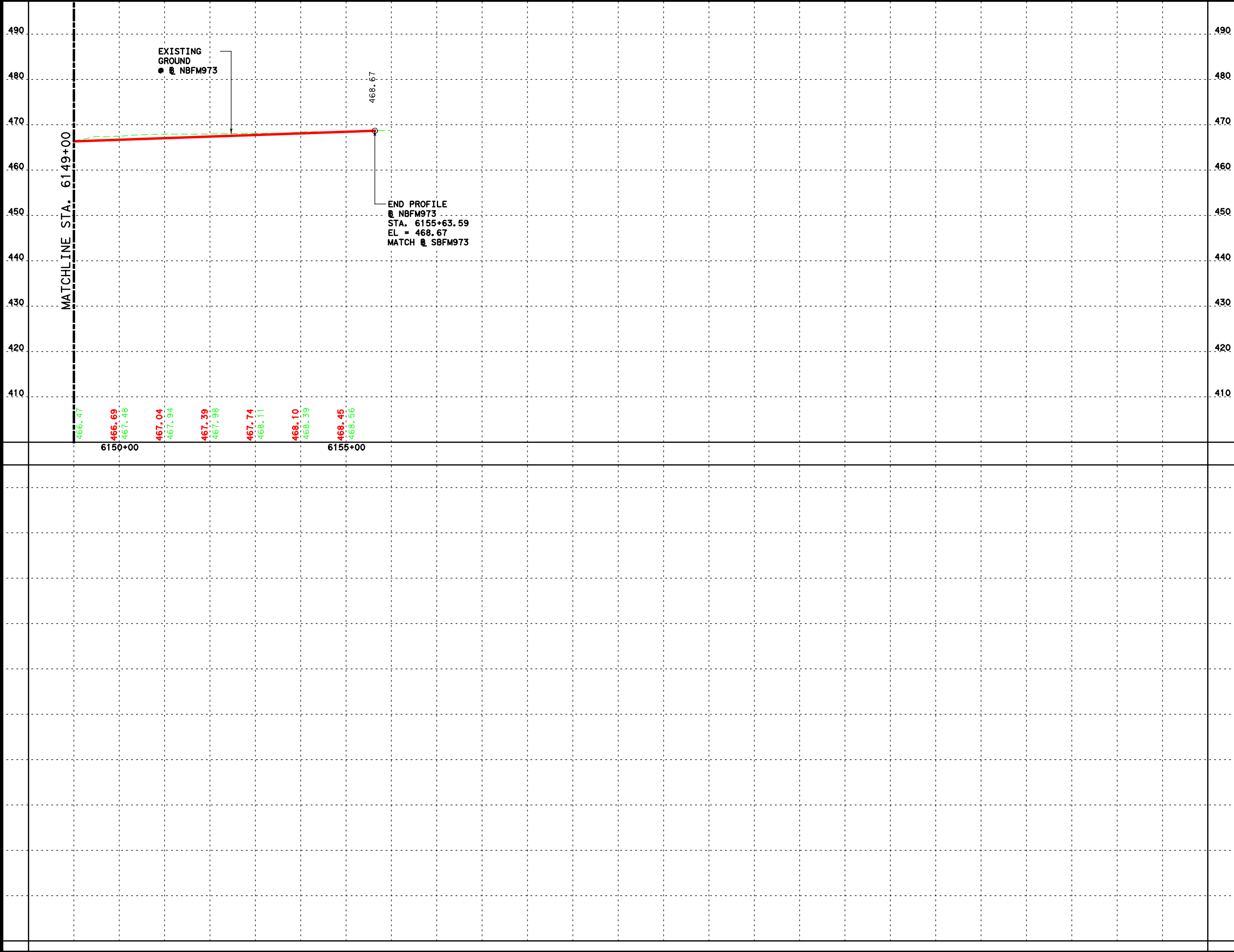
Lockwood, Andrews & Newnam, Inc. ID No. 2614

NB PROFILE



 Texas Department of Transportation
SHEET 1 OF 2

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				66
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
COUNT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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FM 973

NB PROFILE



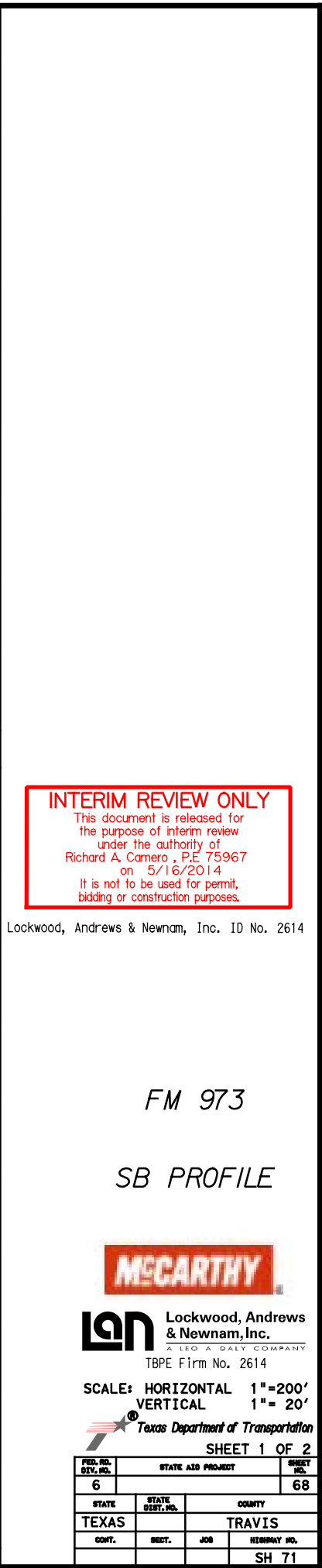
Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

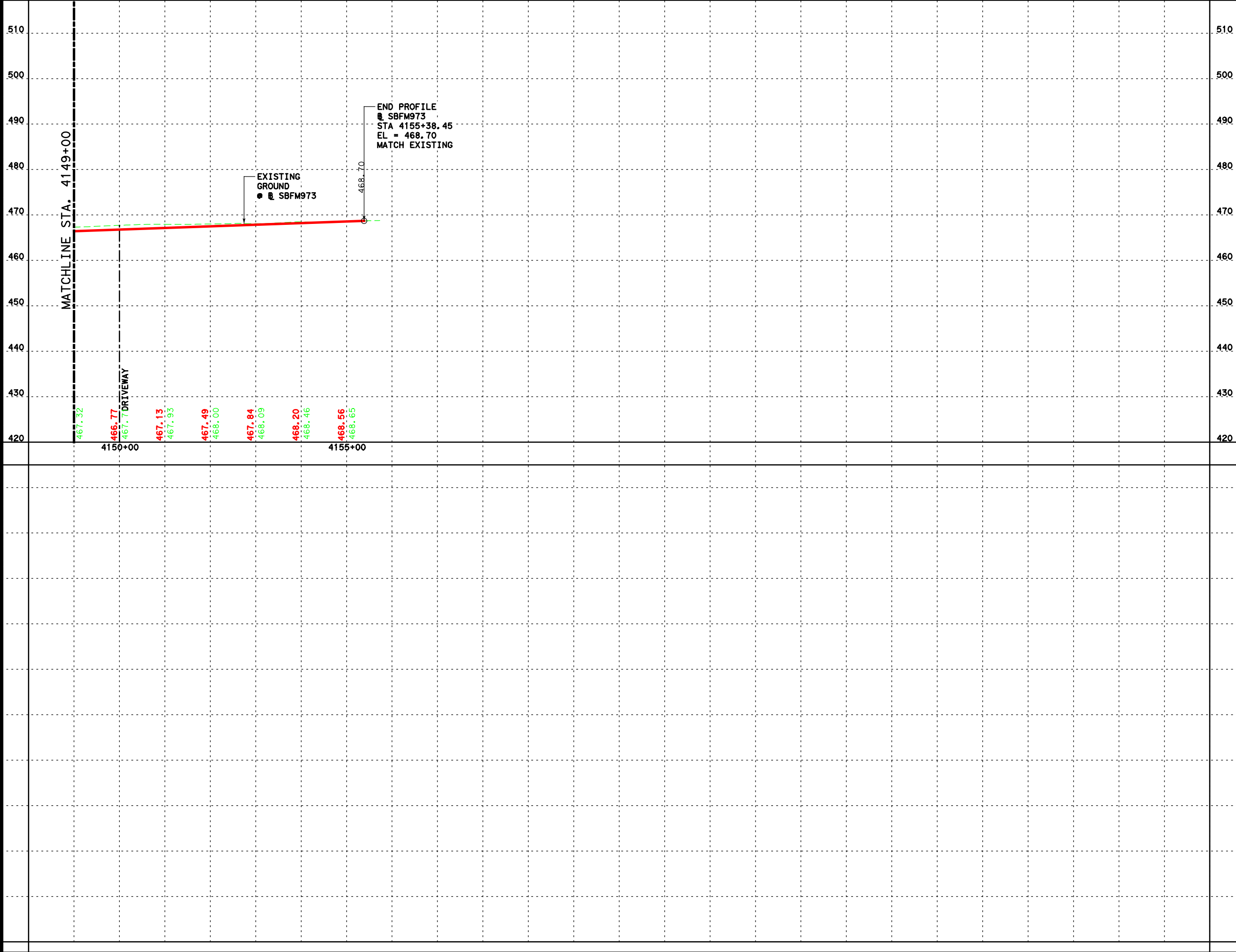
SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

SHEET 2 OF 2

FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			67
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71





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FM 973

SB PROFILE

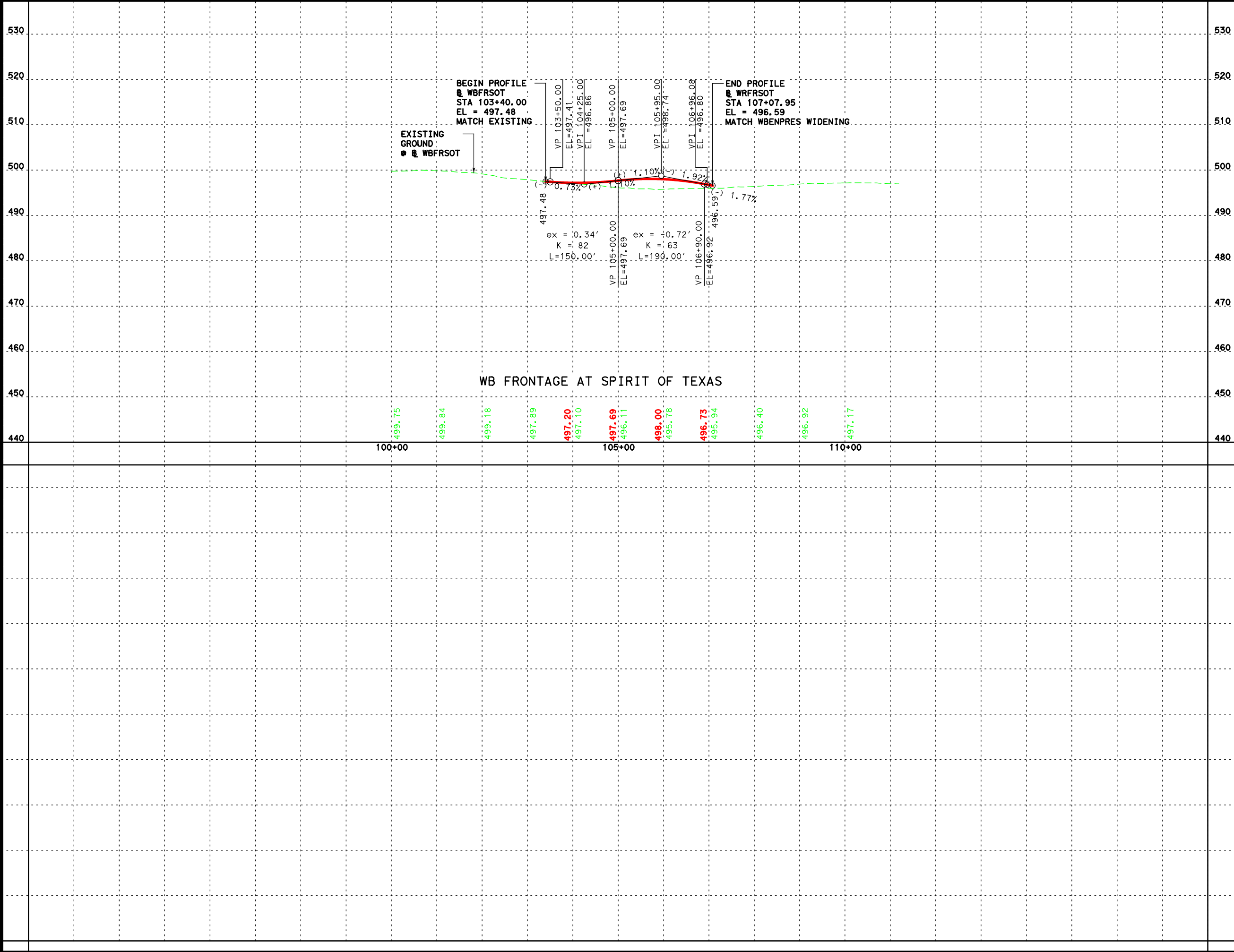


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& Newnam, Inc.
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TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				69
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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SH 71
FRONTAGE ROAD
PROFILES

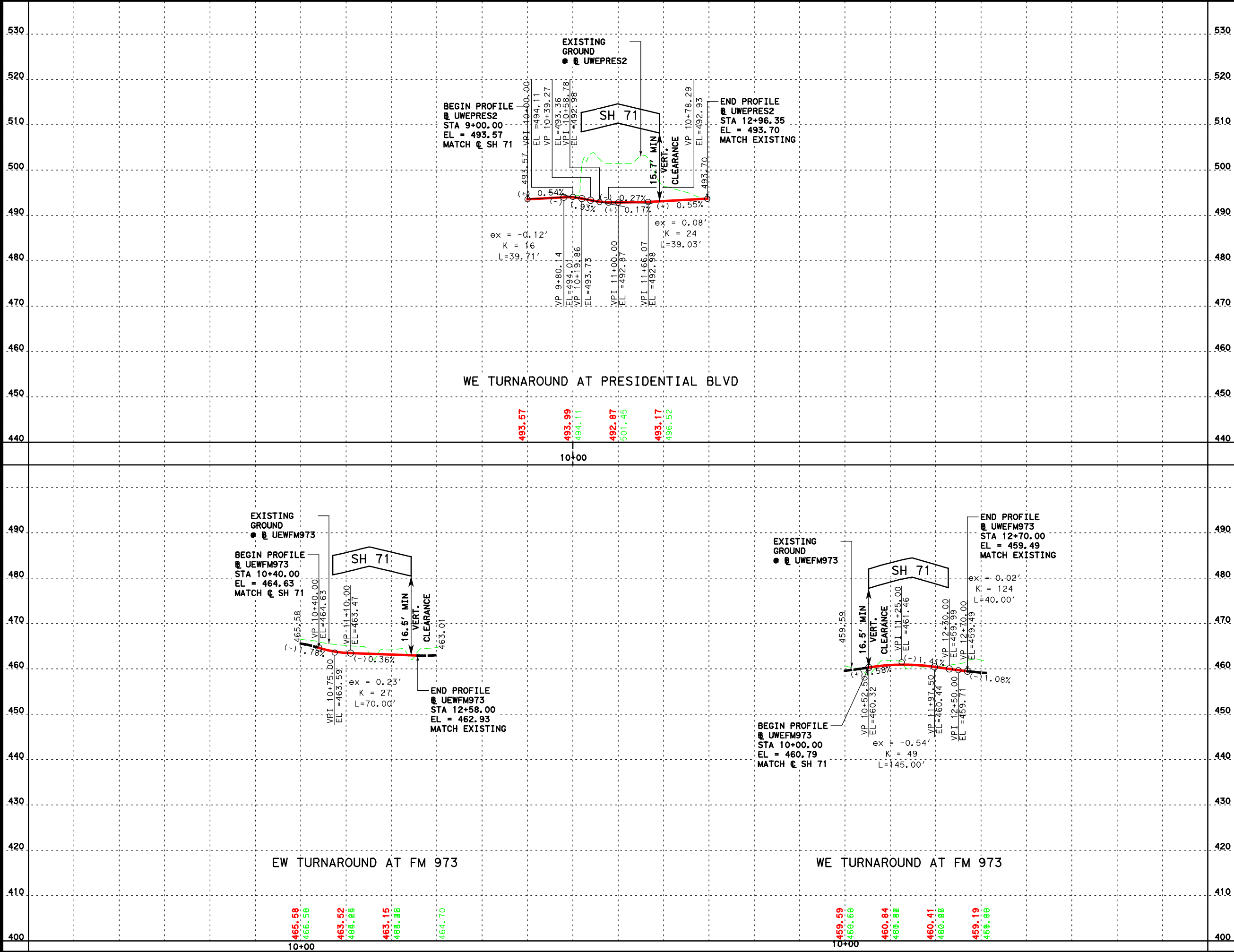


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SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				70
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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SH 71
TURNAROUND
PROFILES

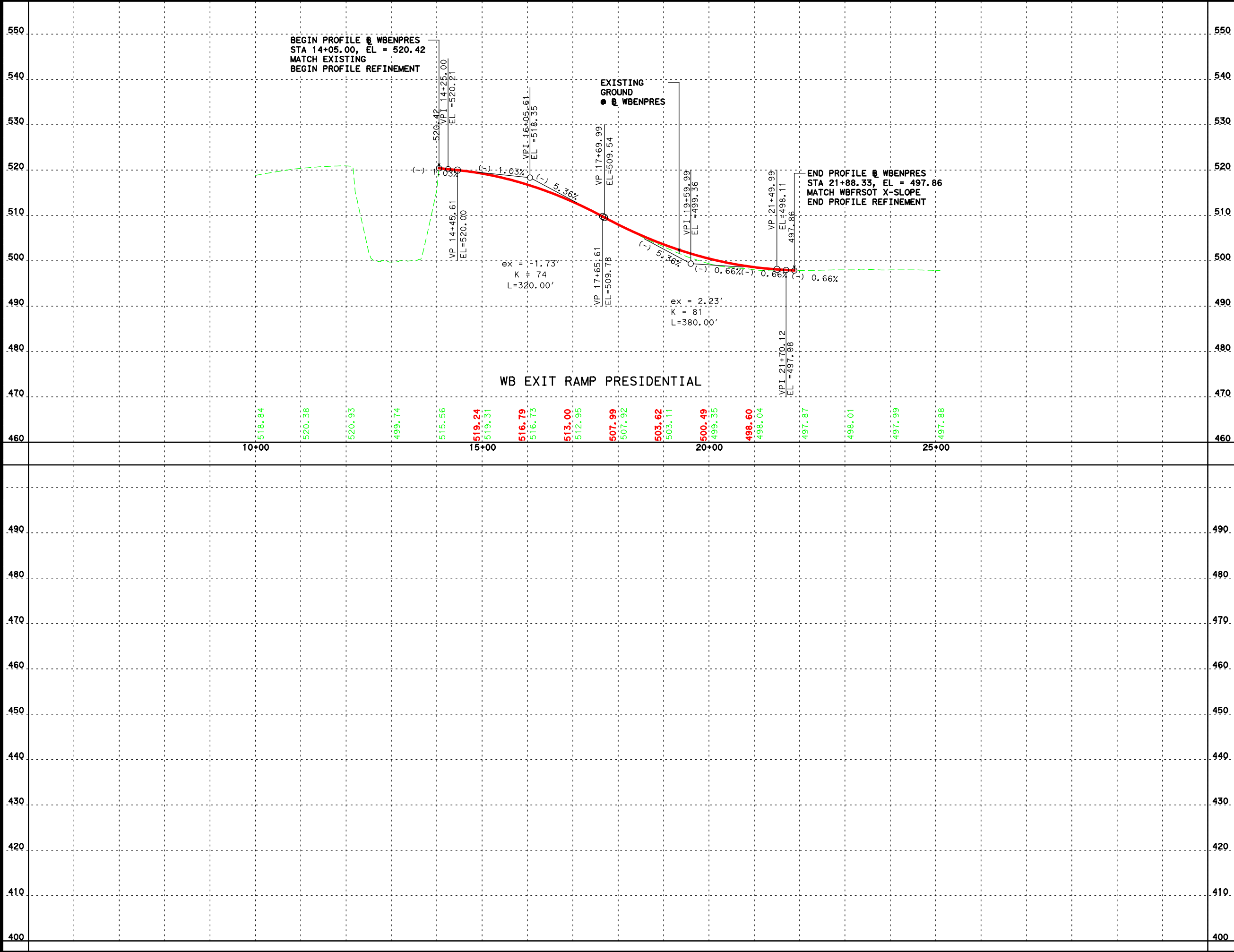


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TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				71
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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SH 71

RAMP PROFILES

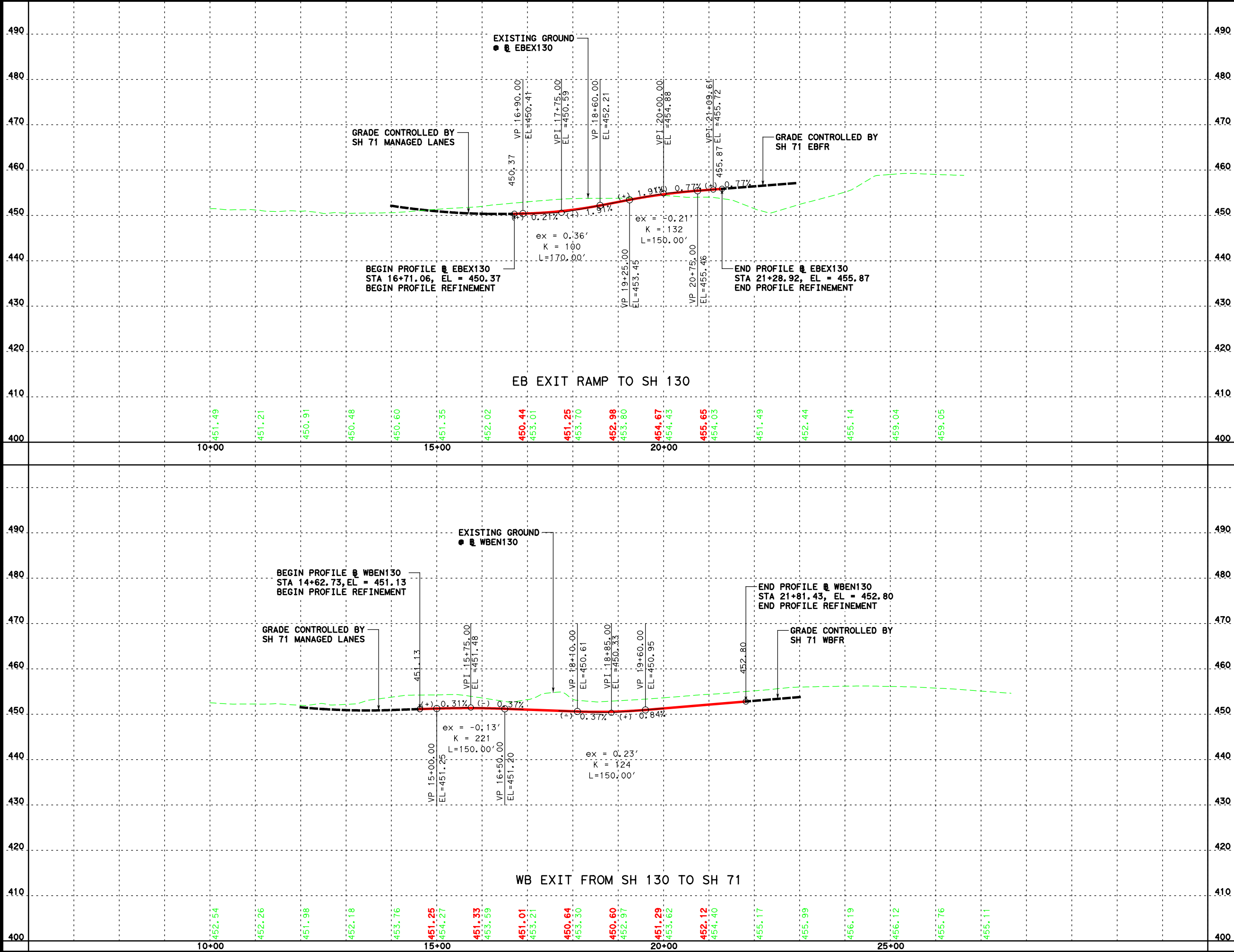


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TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation
SHEET 1 OF 3

FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			72
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



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SH 71

RAMP PROFILES

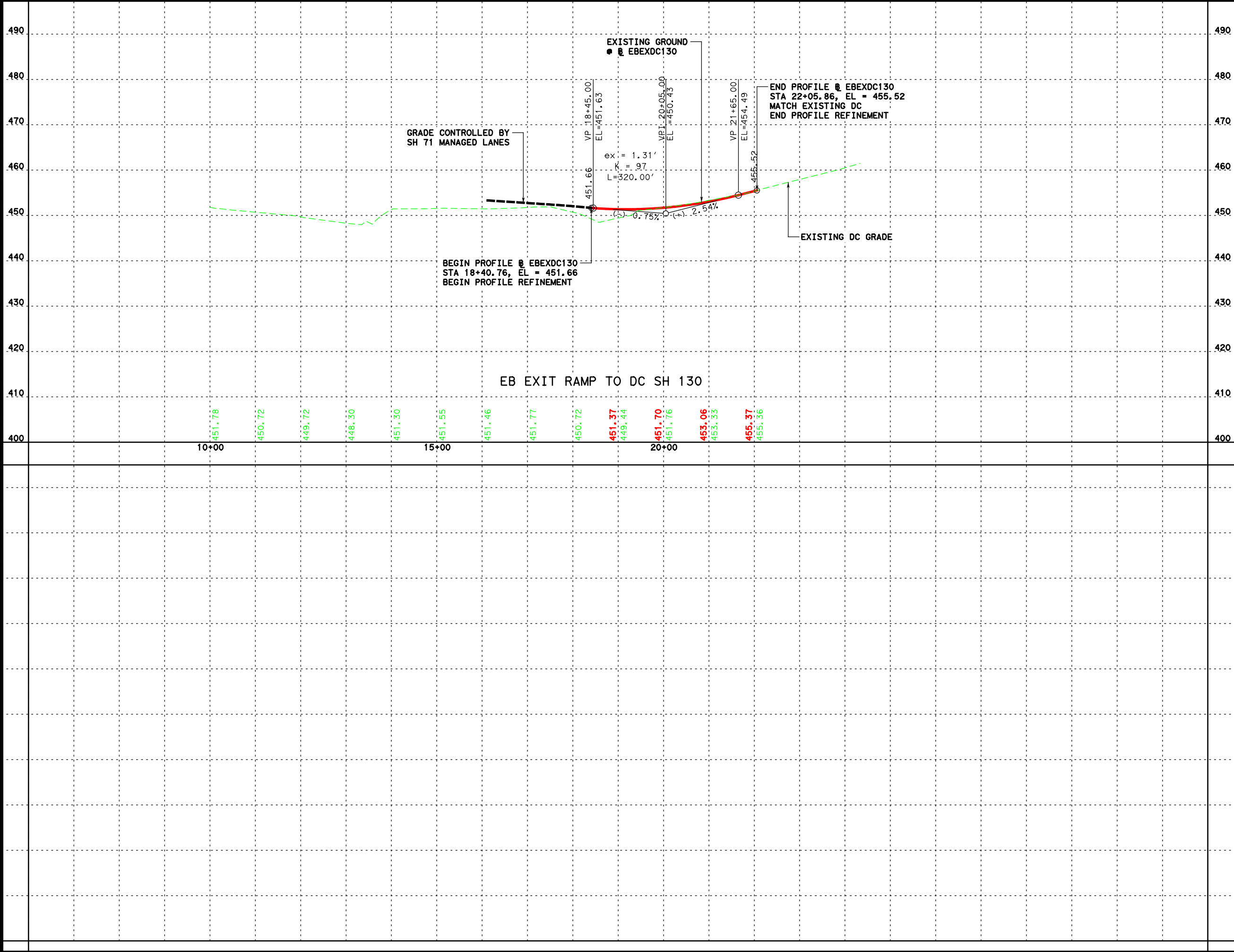


Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

FED. RD. DIST. NO.		STATE AID PROJECT		SHEET NO.
6				73
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	



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SH 71

RAMP PROFILES



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& Newnam, Inc.
A LEO A DALY COMPANY

TBPE Firm No. 2614

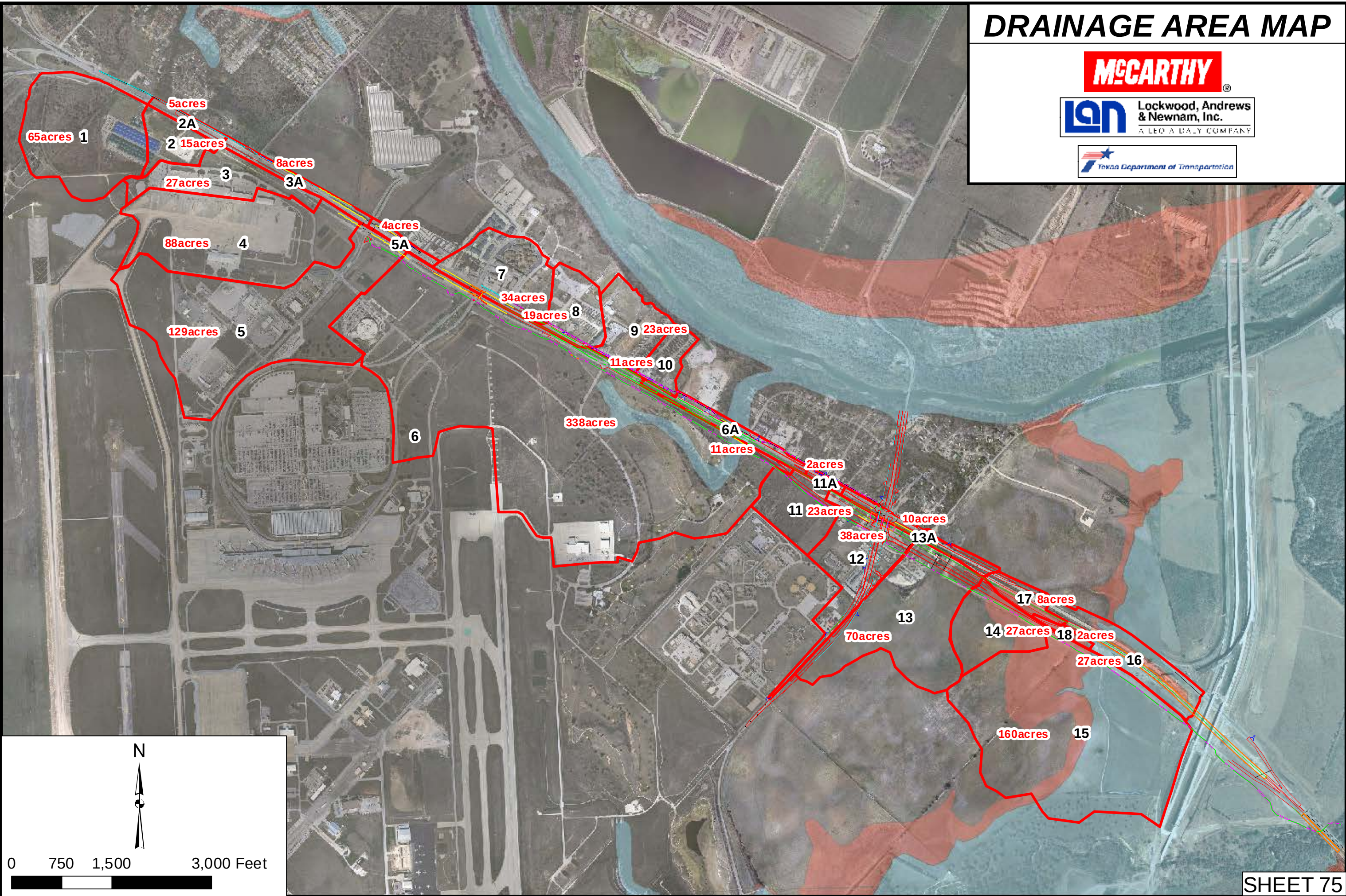
SCALE: HORIZONTAL 1"=200'
VERTICAL 1"= 20'

Texas Department of Transportation

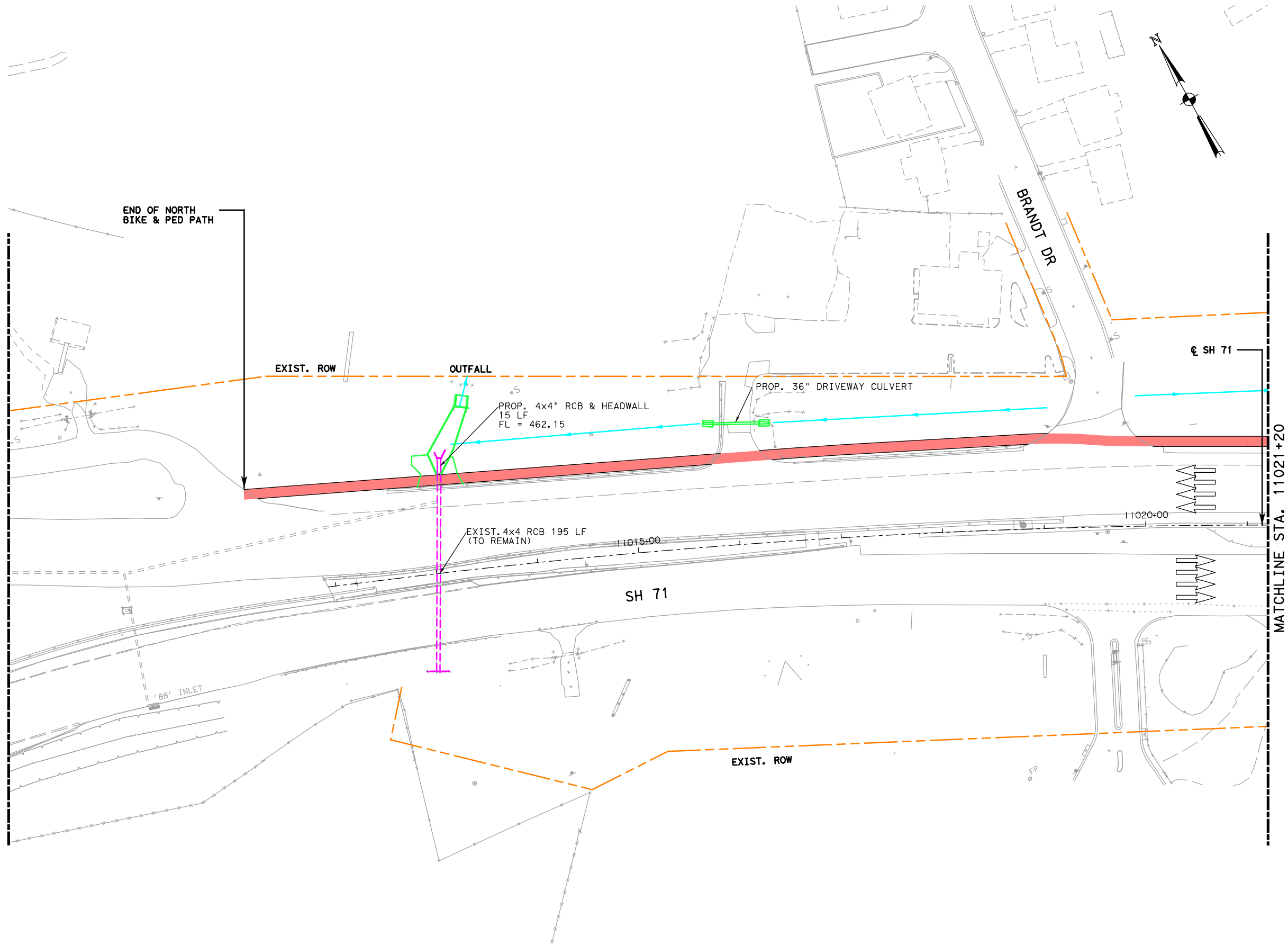
SHEET 2 OF 3

FED. RD. DIST. NO.	STATE AID PROJECT			SHEET NO.
6				74
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONF.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

DRAINAGE AREA MAP



Lockwood, Andrews & Newnam Inc. makes no representations or warranties regarding accuracy or completeness of the information depicted on this map or the data from which it was produced. This map is NOT suitable for survey purposes and does not purport to depict or establish boundaries between land owners or locations of utility infrastructure where survey data is available and field locations have been established.



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - ||| CONTROL OF ACCESS
 - ||| FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
 - PROP TOLL
 - PROP NON-TOLL
 - PAVEMENT TO BE REMOVED
 - PROP WIDENING
 - DIRECTIONAL ARROW
 - RETAINING WALL
 - PROP DRAINAGE DITCH
 - PROP STORMSEWER SYSTEM
 - PROP CROSS CULVERTS
 - PROP DRAINAGE FEATURE
 - EXIST DRAINAGE FEATURE (SHOWN IN COLOR OF TYPE)
 - ACS - ARMOR CURB SLOT
 - PROP BRIDGE DECK DRAIN

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SH 71

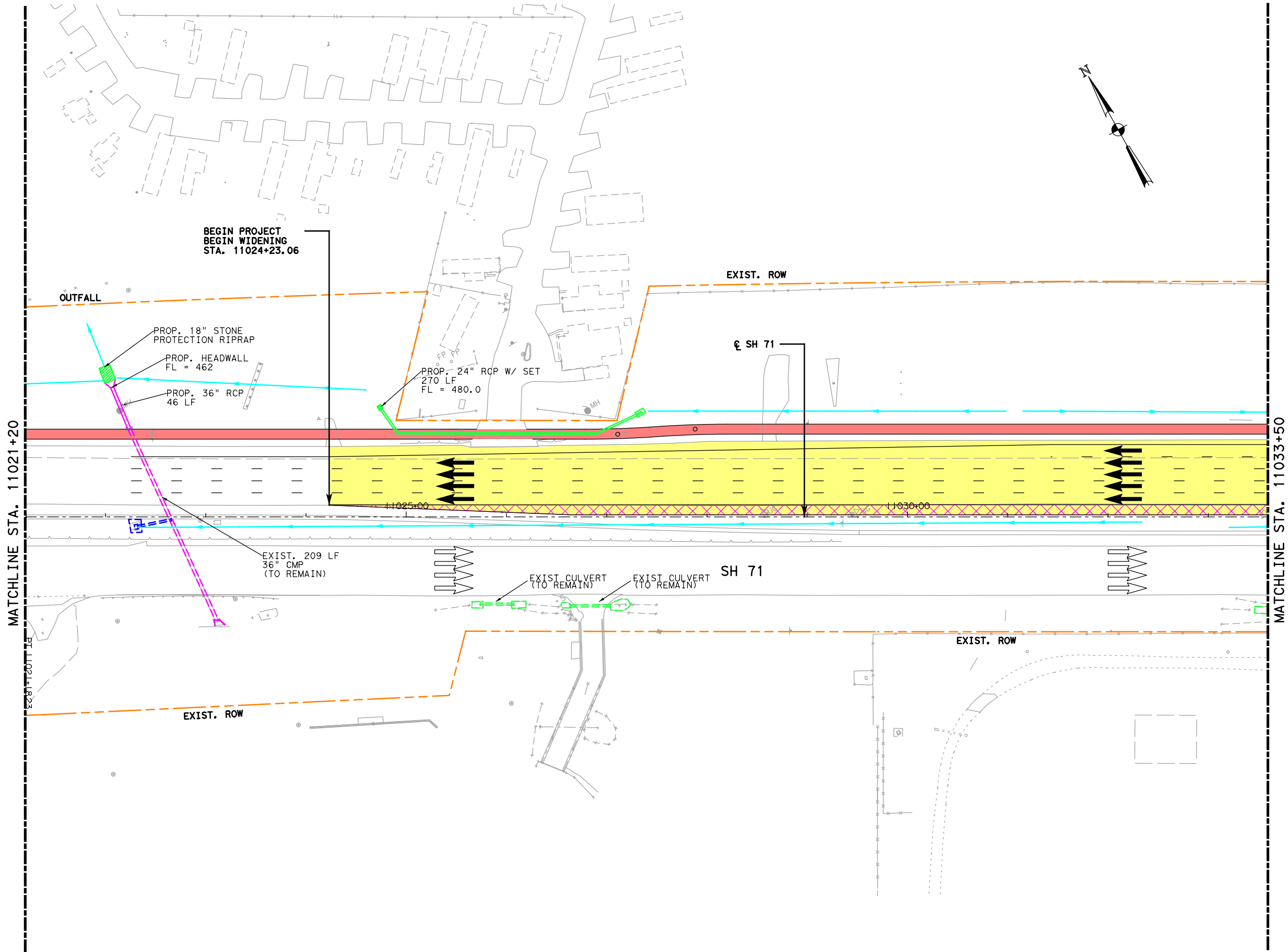
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
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TBPE Firm No. 2614

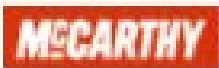
SCALE: 1"=100'

Texas Department of Transportation			
SHEET 1 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			76
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



SH 71

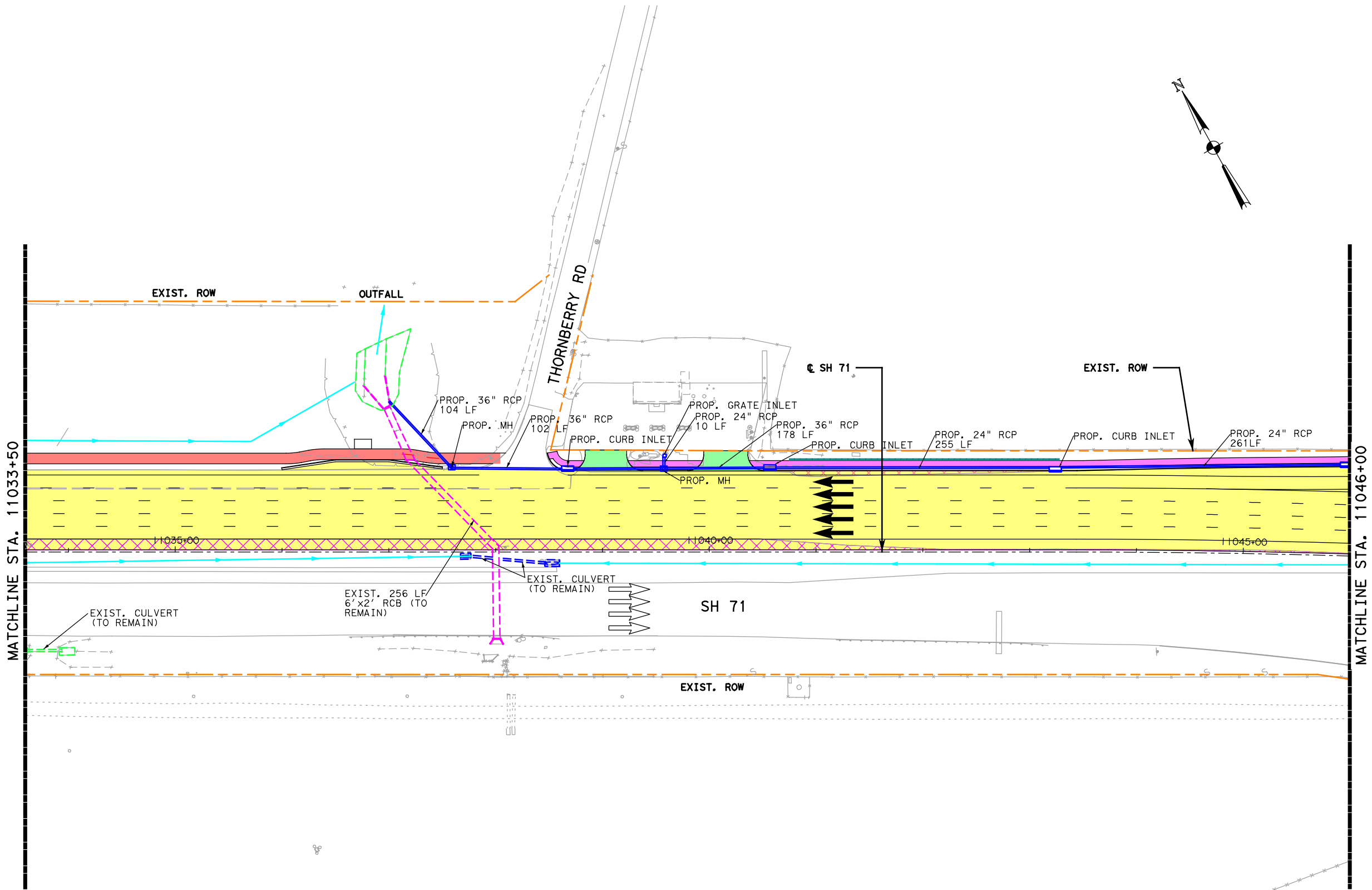
DRAINAGE PLAN



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SCALE: 1"=100'

Texas Department of Transportation			
SHEET 2 OF 18			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			77
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - ||| CONTROL OF ACCESS
 - ||| FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
 - PROP TOLL
 - PROP NON-TOLL
 - PAVEMENT TO BE REMOVED
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 - DIRECTIONAL ARROW
 - RETAINING WALL
 - PROP DRAINAGE DITCH
 - PROP STORMSEWER SYSTEM
 - PROP CROSS CULVERTS
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SH 71

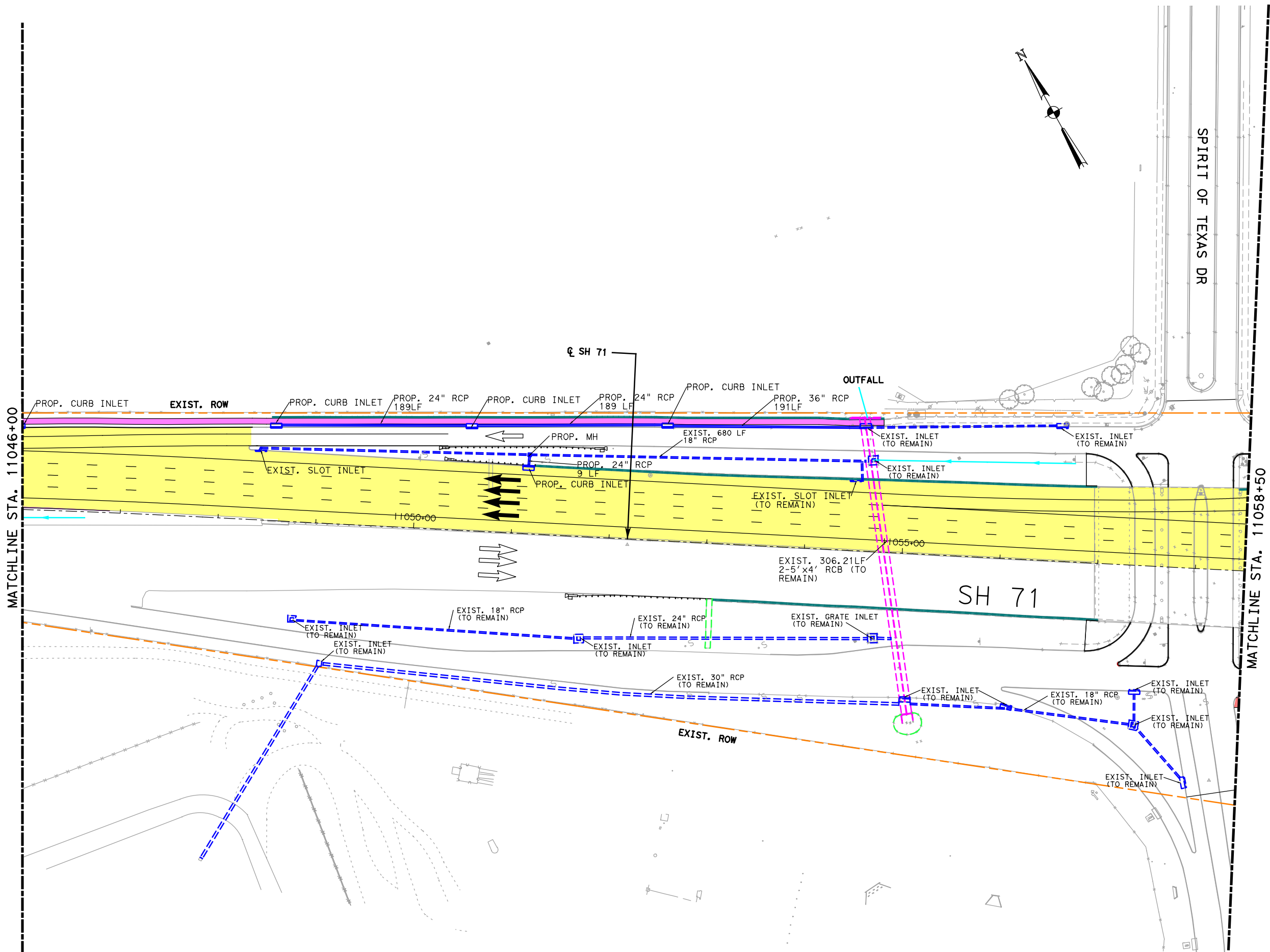
DRAINAGE PLAN



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TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 3 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			78
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
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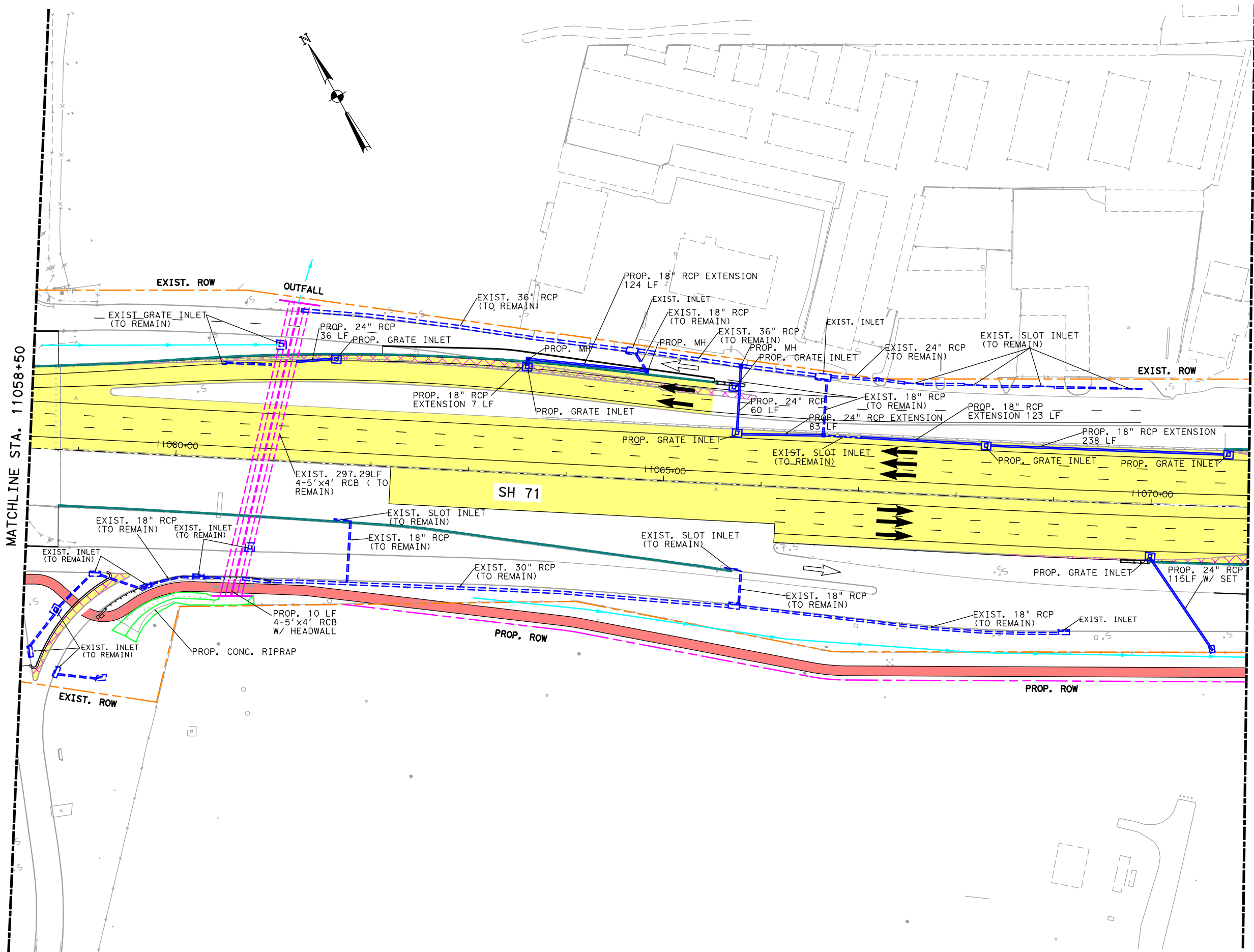
SH 71
DRAINAGE PLAN



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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 4 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			79
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



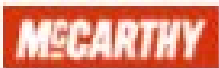
- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
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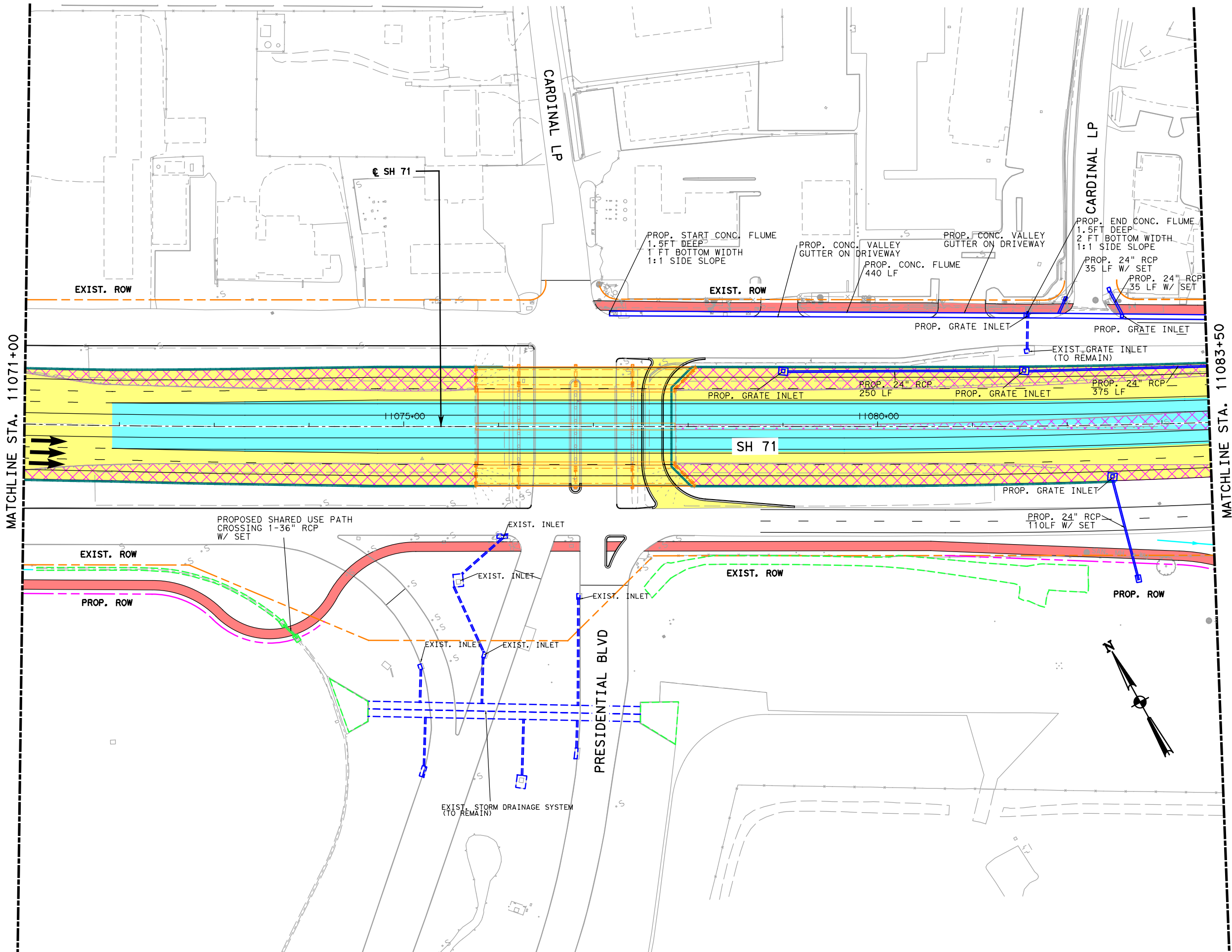
DRAINAGE PLAN



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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 5 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT	SHEET NO.	
6		80	
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
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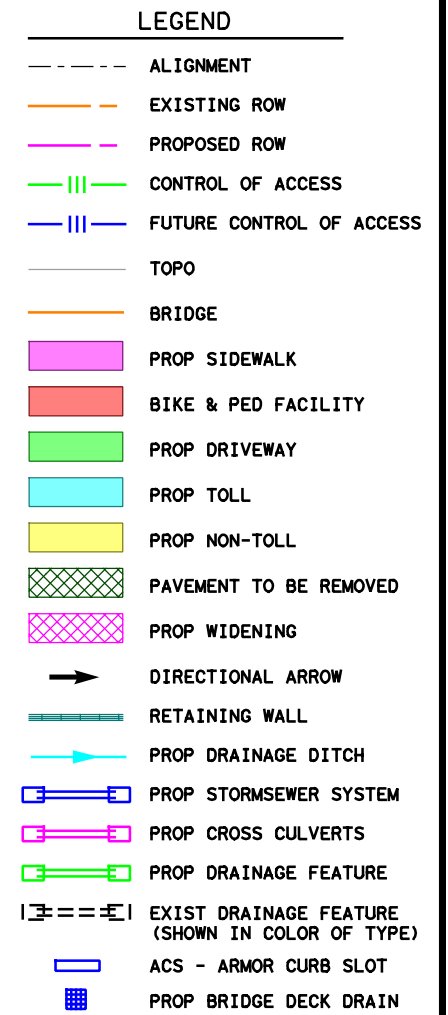
DRAINAGE PLAN



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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 6 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			81
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



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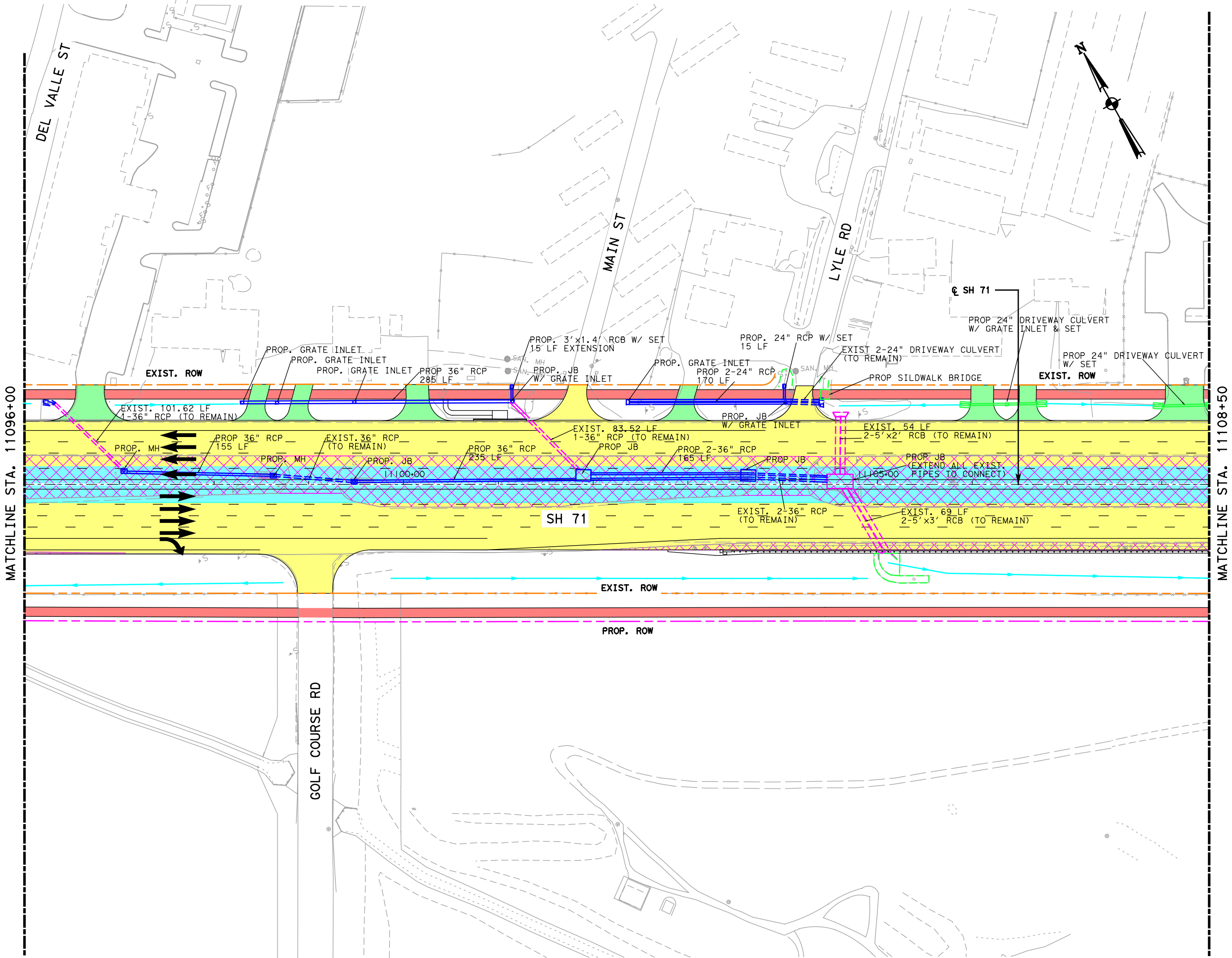
SH 71

DRAINAGE PLAN



 **Texas Department of Transportation**
SHEET 7 OF 18

FED. NO.		STATE AID PROJECT		SHEET NO.	
DEV. NO.				82	
6					
STATE		STATE DIST. NO.		COUNTY	
TEXAS				TRAVIS	
CONT.		SECT.		JOB	
				HIGHWAY NO.	
				SH 71	



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
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 - PROP DRAINAGE DITCH
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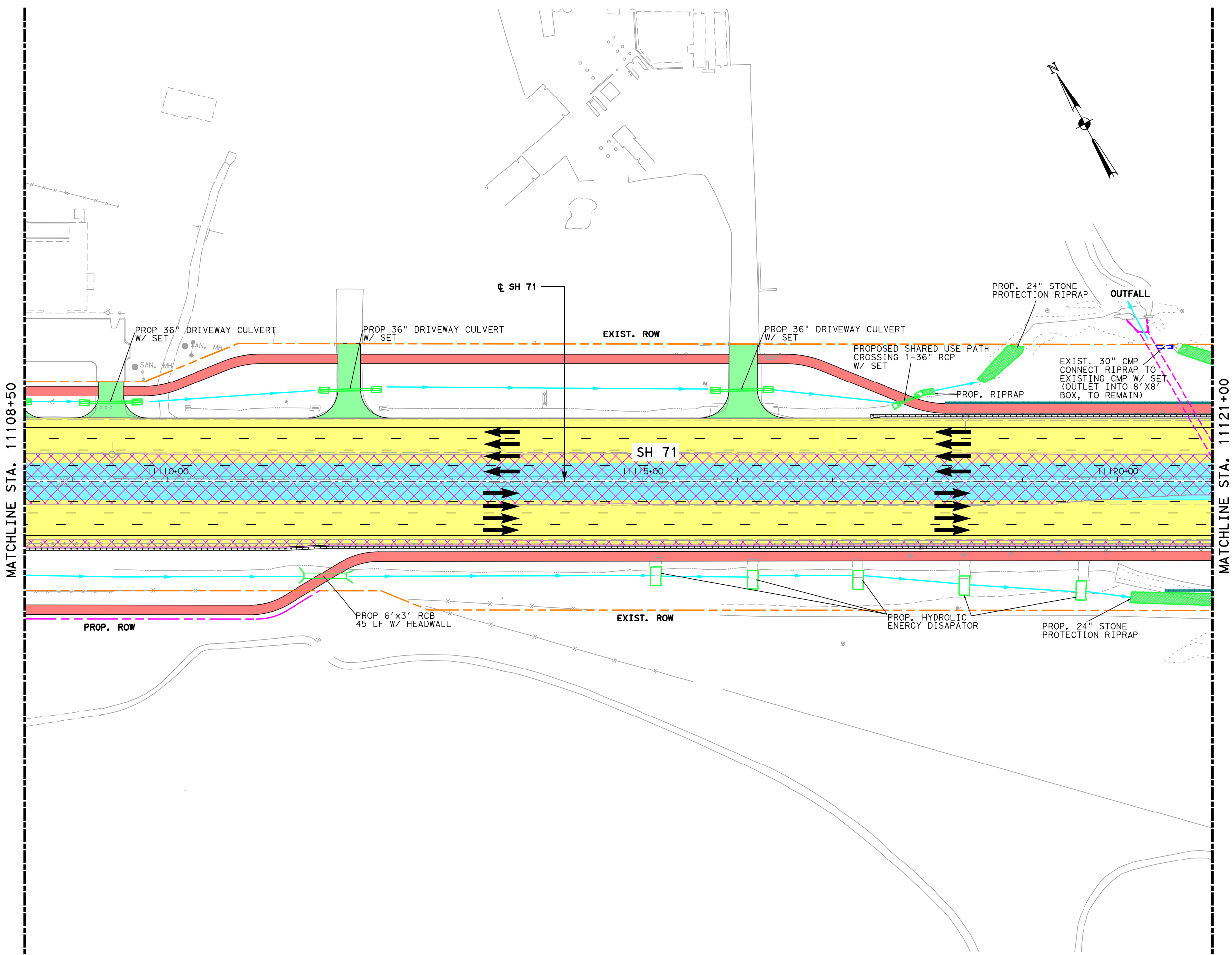
DRAINAGE PLAN



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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 8 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			83
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
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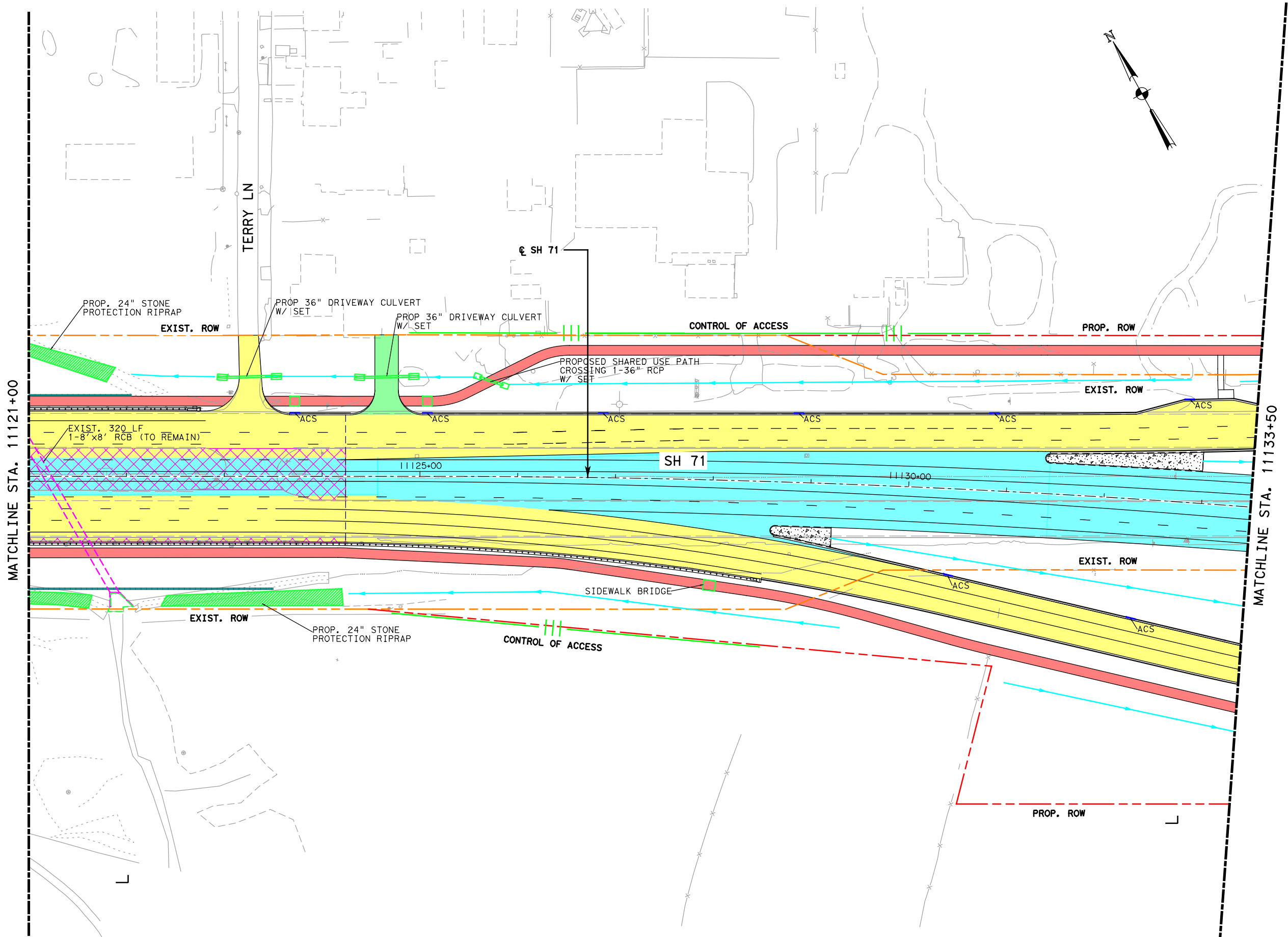
DRAINAGE PLAN



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TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 9 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			84
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
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 - TOPO
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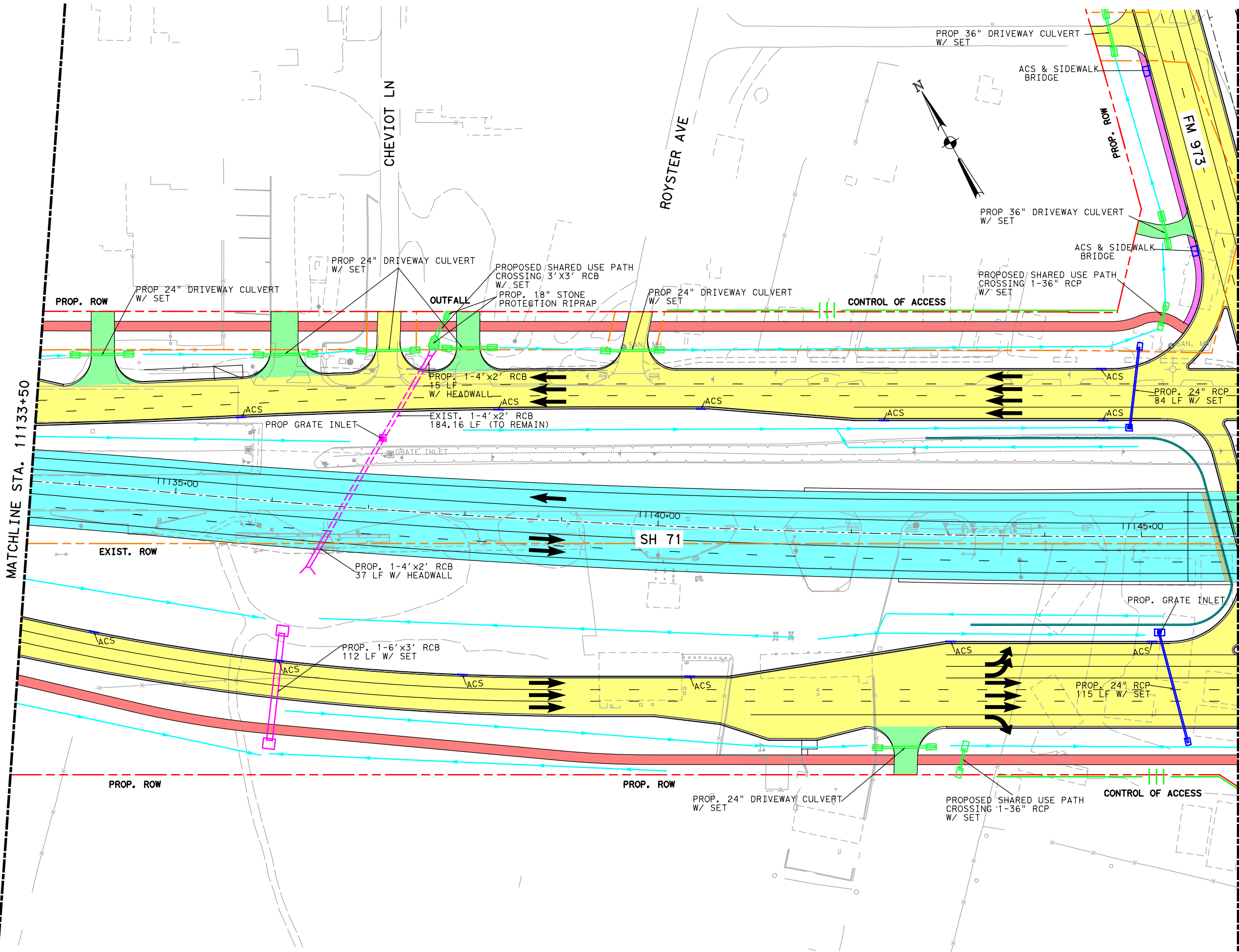
DRAINAGE PLAN



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A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 10 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			85
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
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DRAINAGE PLAN



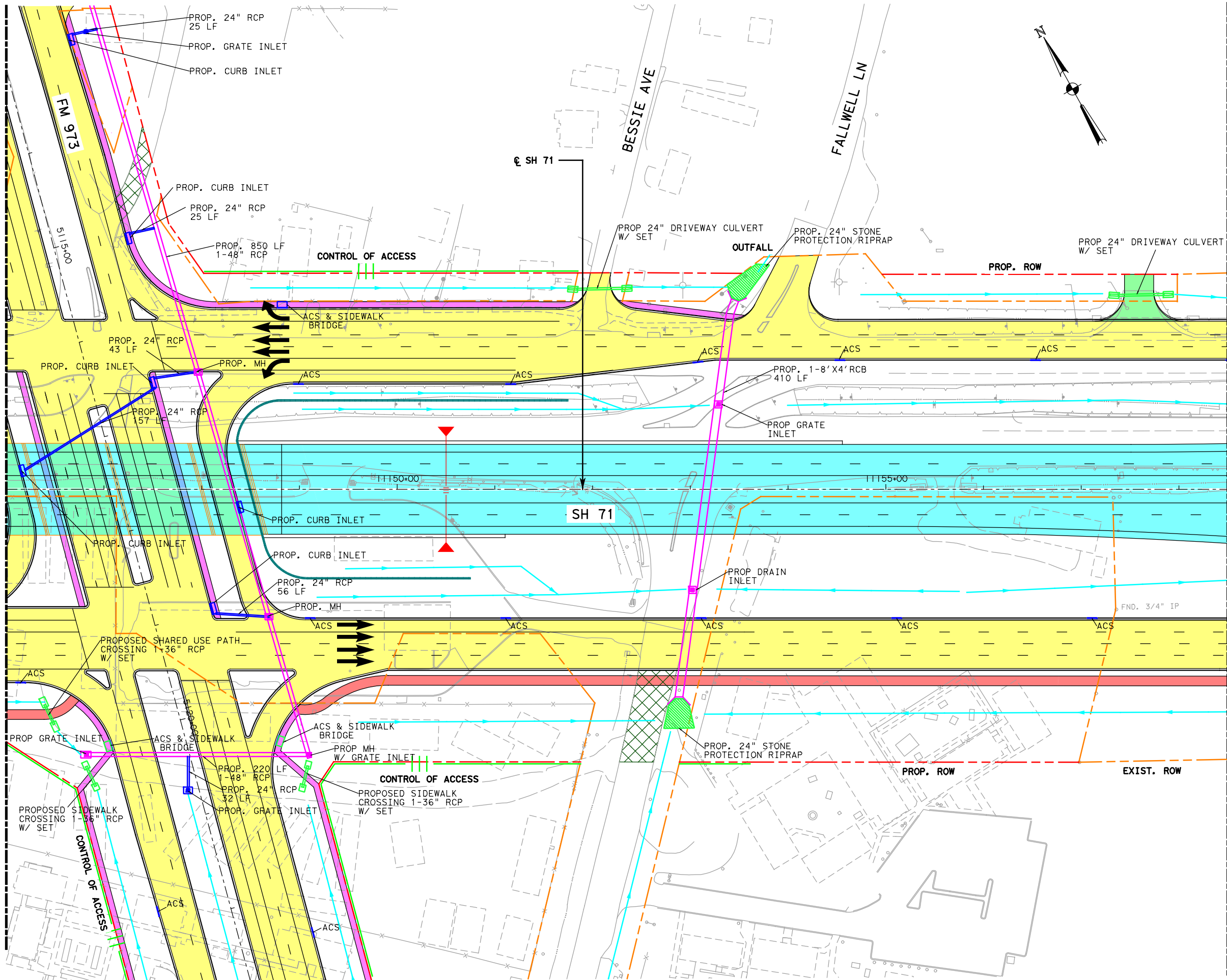
Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 11 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT	SHEET NO.	
6		86	
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

MATCHLINE STA. 11146+00

MATCHLINE STA. 11158+50



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
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SH 71

DRAINAGE PLAN



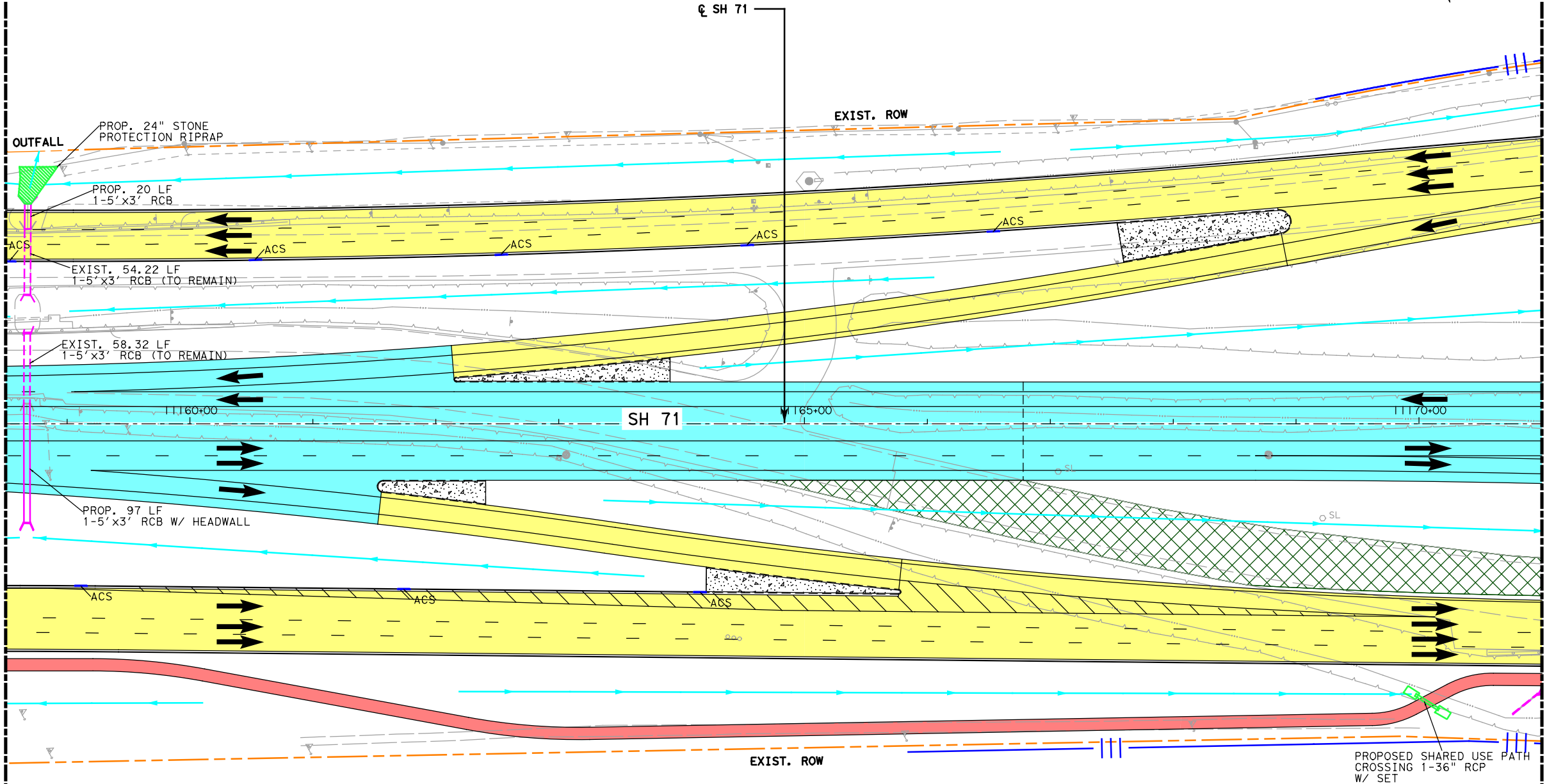
Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 12 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			87
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71

MATCHLINE STA. 11158+50

MATCHLINE STA. 11171+00



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
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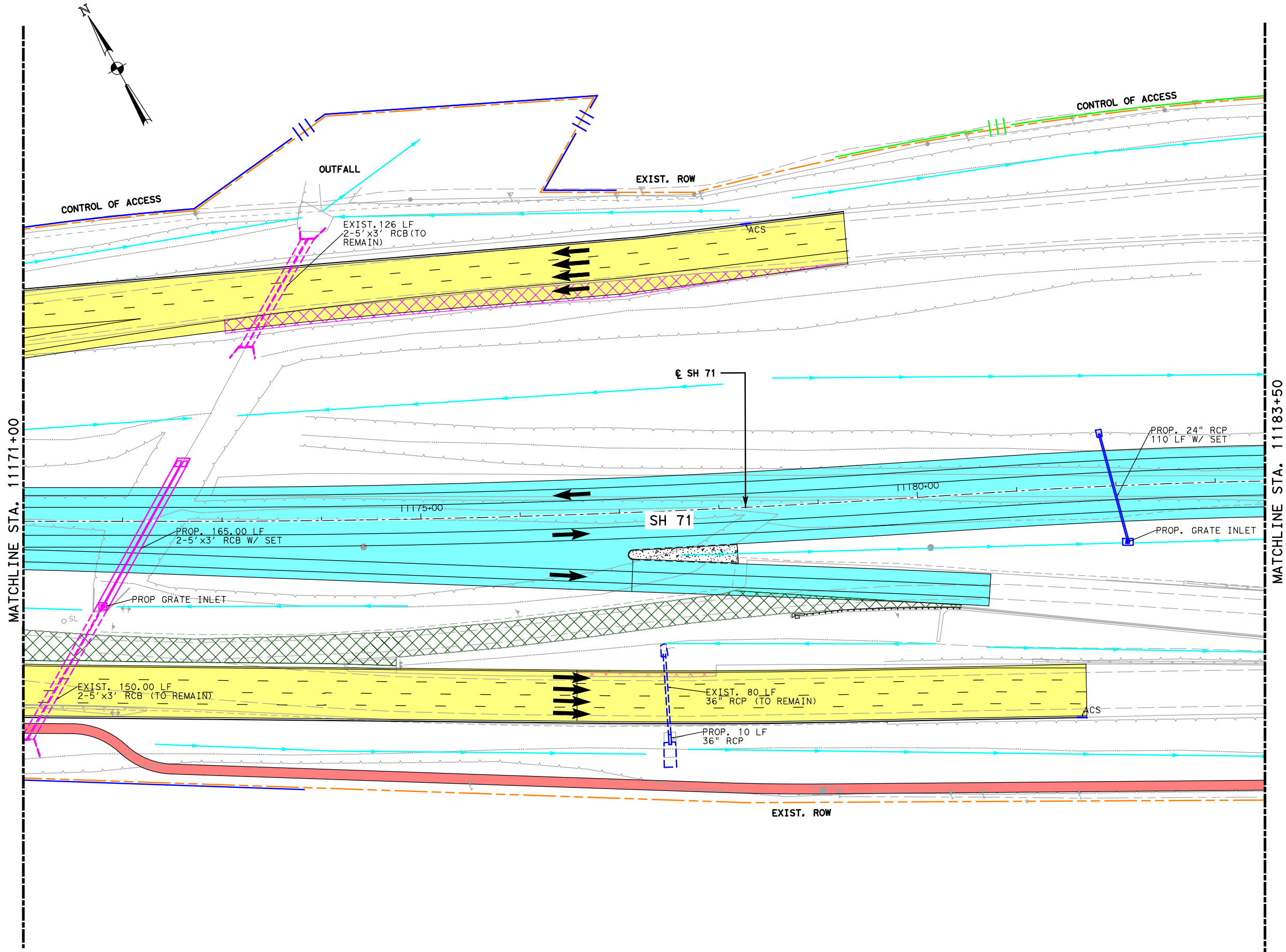
SH 71
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 13 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			88
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
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SH 71

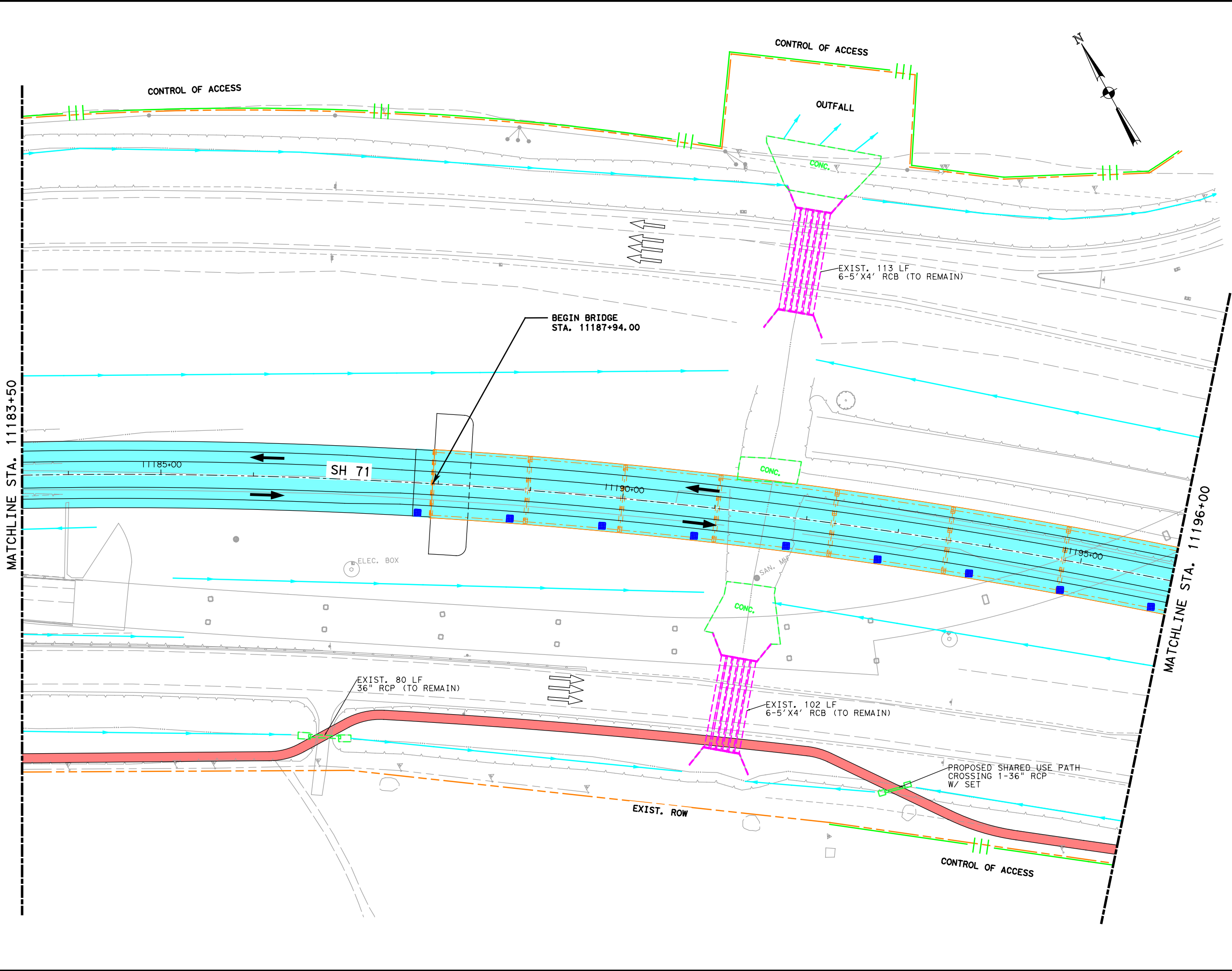
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 14 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			89
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
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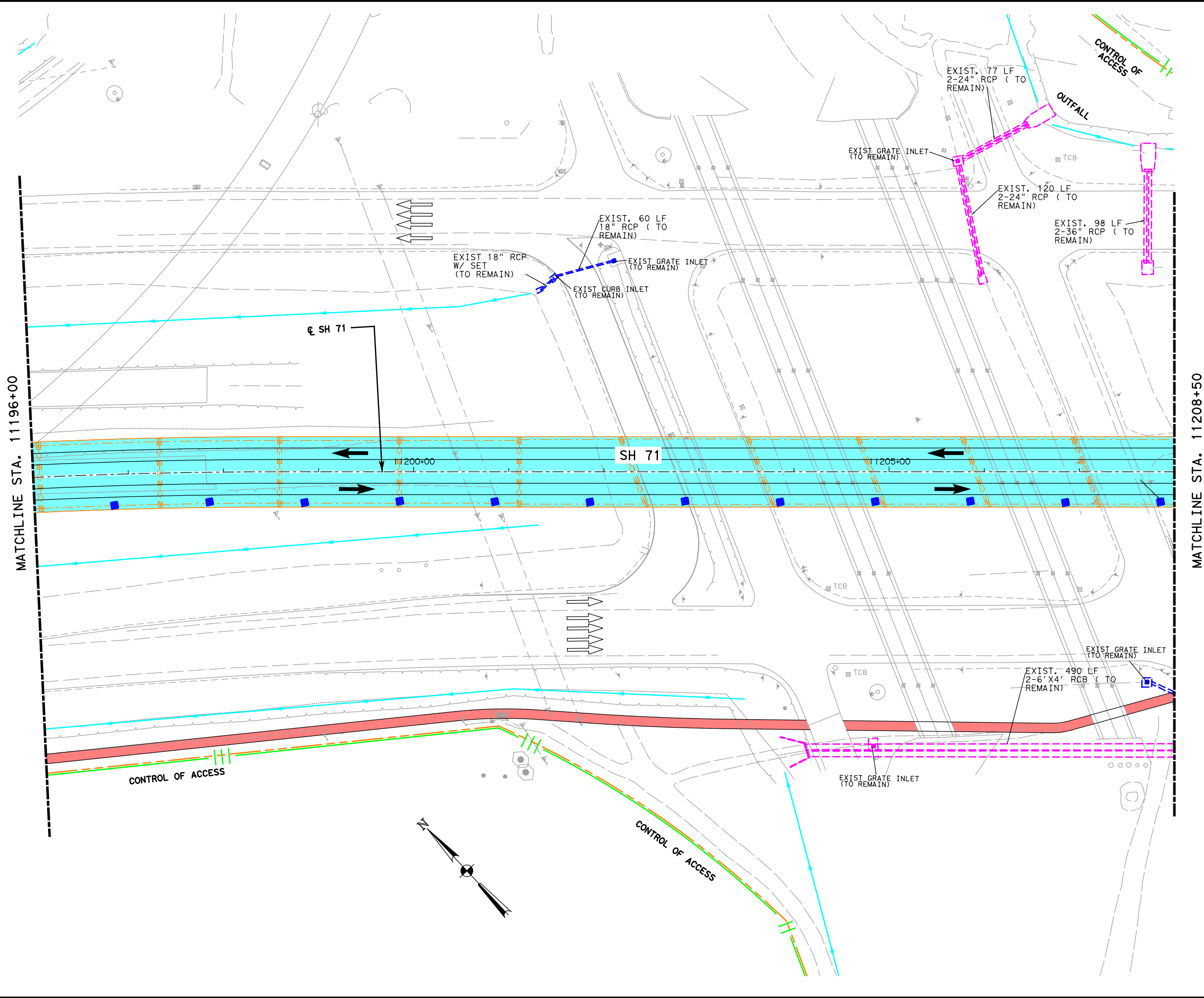
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 15 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			90
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
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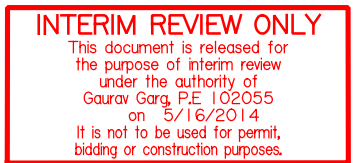
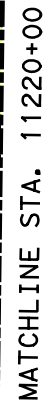
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 16 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			91
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



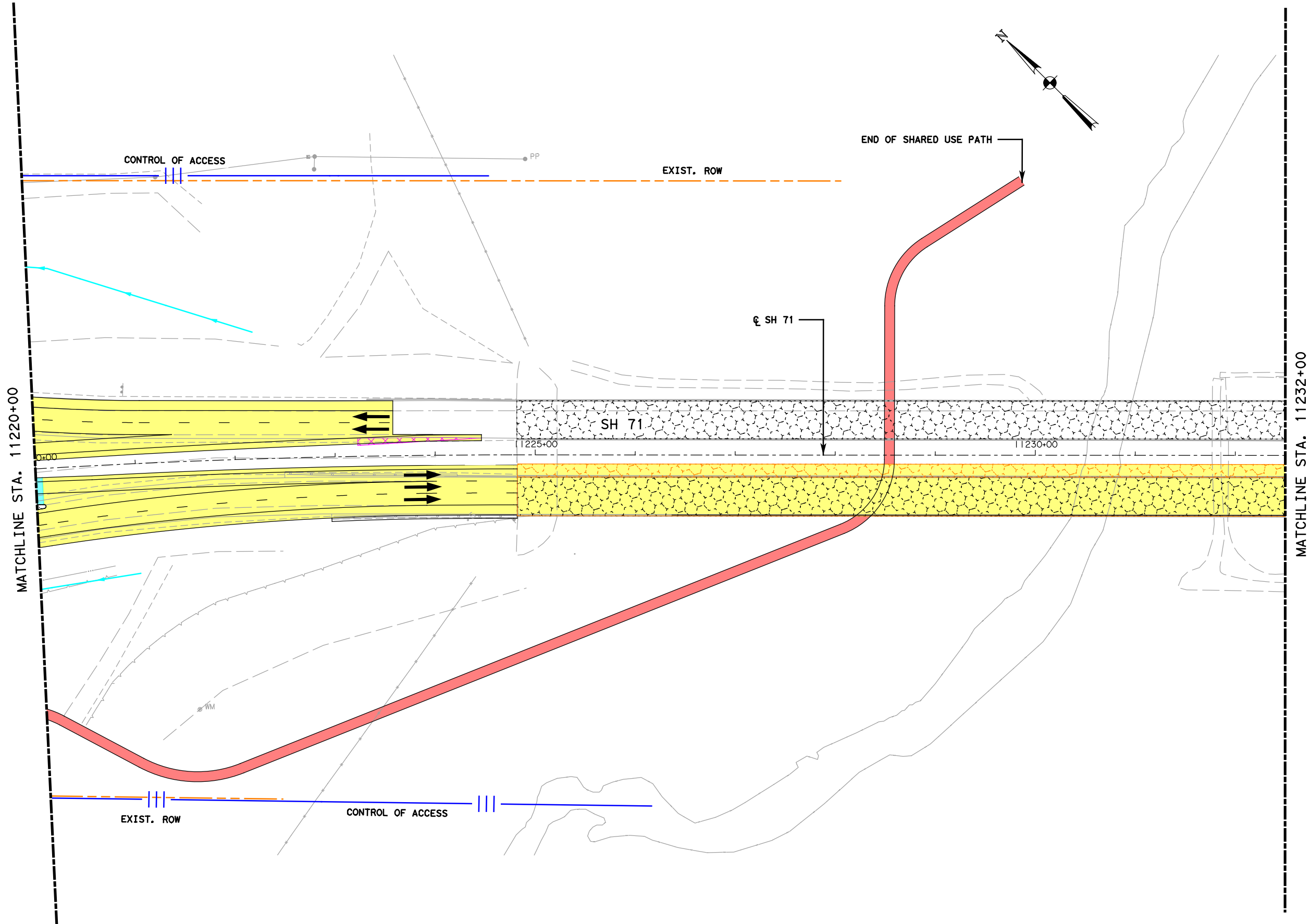
SH 71

DRAINAGE PLAN



 **Texas Department of Transportation**
SHEET 17 OF 18

FED. RD. DIV. NO.		STATE AID PROJECT		SHEET NO.	
6				92	
STATE		STATE DIST. NO.		COUNTY	
TEXAS				TRAVIS	
CONT.		SECT.		JOB	
				HIGHWAY NO.	
				SH 71	



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
 - BRIDGE
 - PROP SIDEWALK
 - BIKE & PED FACILITY
 - PROP DRIVEWAY
 - PROP TOLL
 - PROP NON-TOLL
 - PAVEMENT TO BE REMOVED
 - PROP WIDENING
 - DIRECTIONAL ARROW
 - RETAINING WALL
 - PROP DRAINAGE DITCH
 - PROP STORMSEWER SYSTEM
 - PROP CROSS CULVERTS
 - PROP DRAINAGE FEATURE
 - EXIST DRAINAGE FEATURE (SHOWN IN COLOR OF TYPE)
 - ACS - ARMOR CURB SLOT
 - PROP BRIDGE DECK DRAIN

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Lockwood, Andrews & Newnam, Inc. ID No. 2614

SH 71

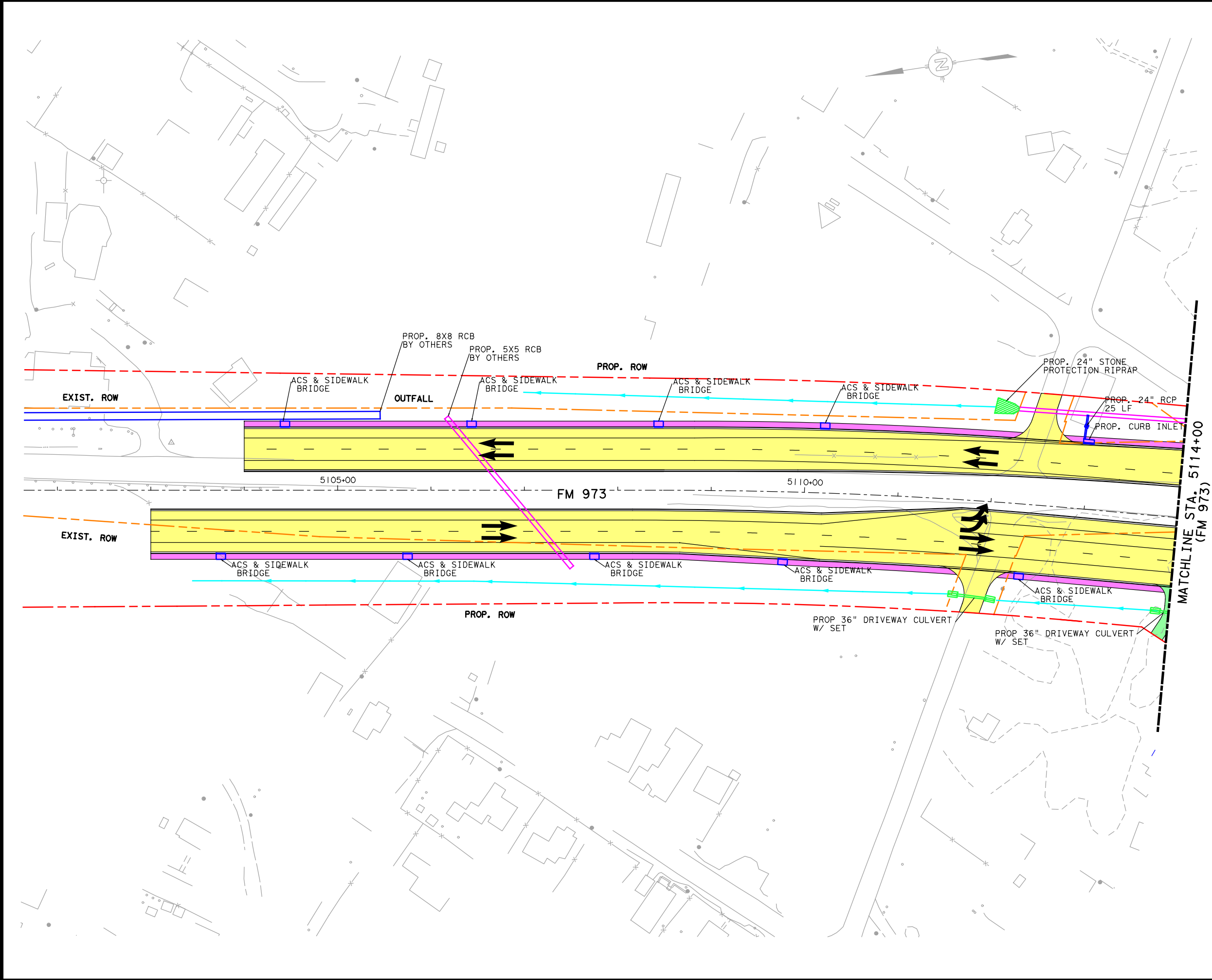
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 18 OF 18			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			93
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
 - PROPOSED ROW
 - CONTROL OF ACCESS
 - FUTURE CONTROL OF ACCESS
 - TOPO
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Lockwood, Andrews & Newnam, Inc. ID No. 2614

FM 973

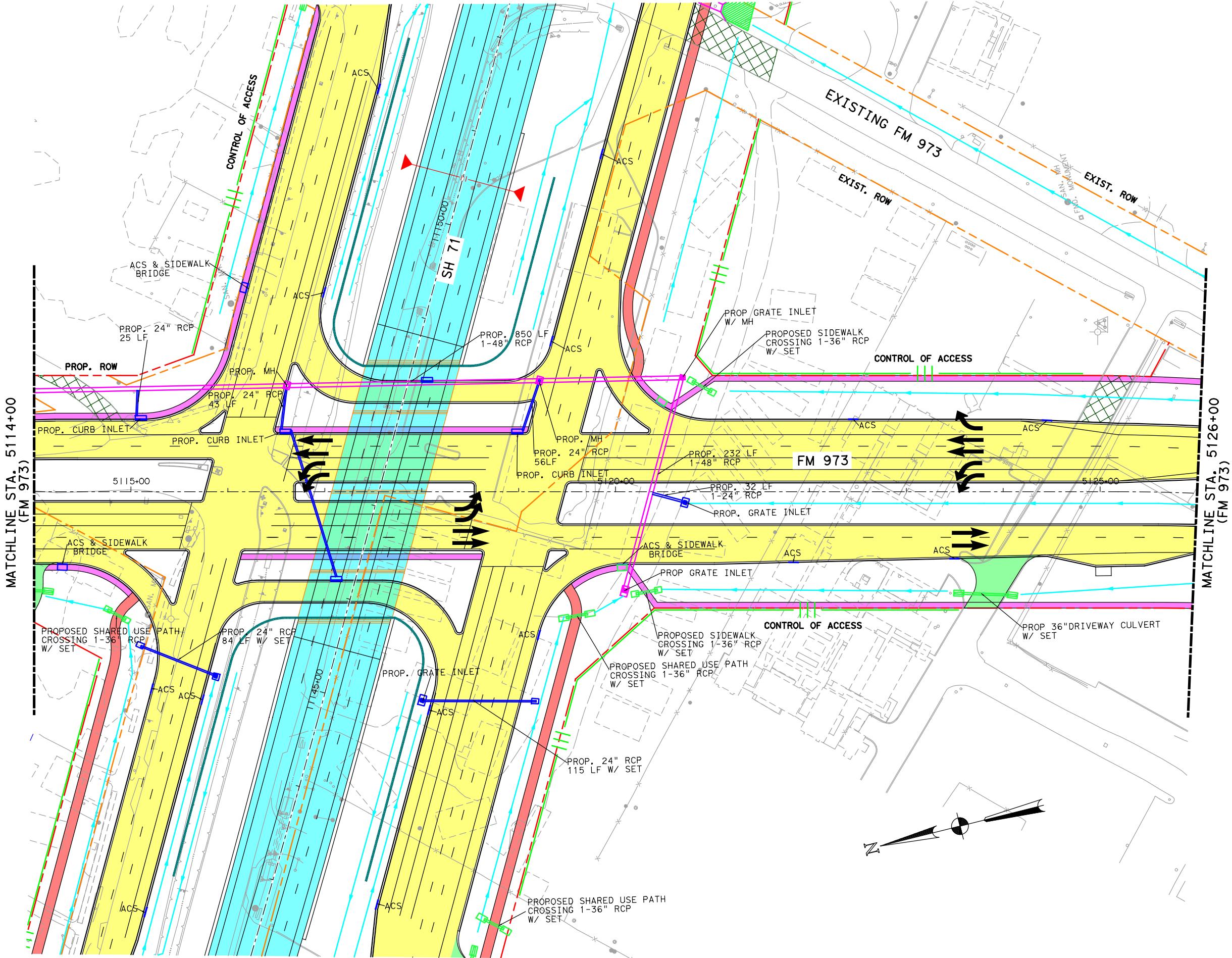
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 1 OF 5			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			94
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
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FM 973

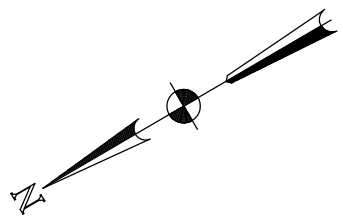
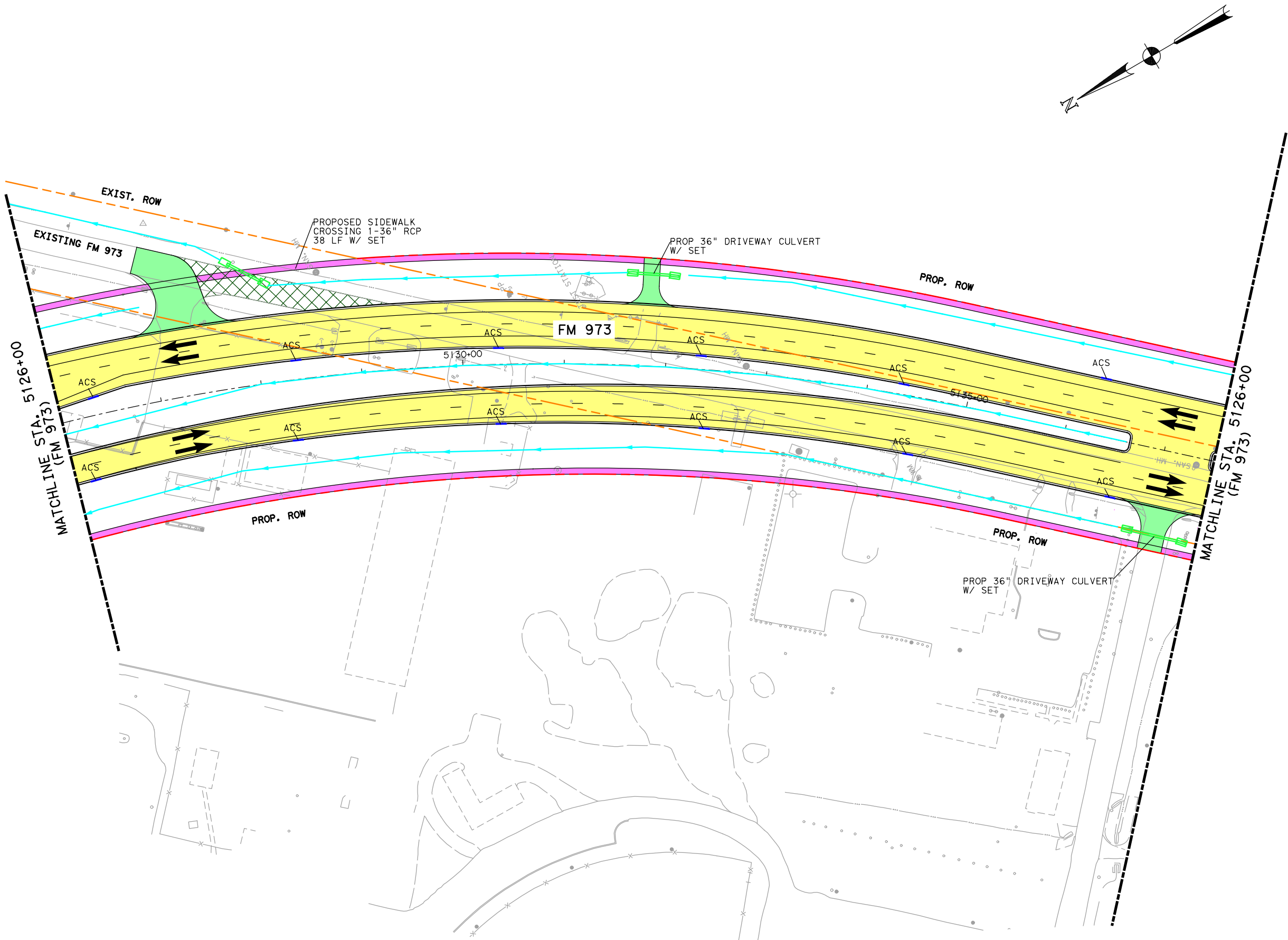
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 2 OF 5			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			95
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
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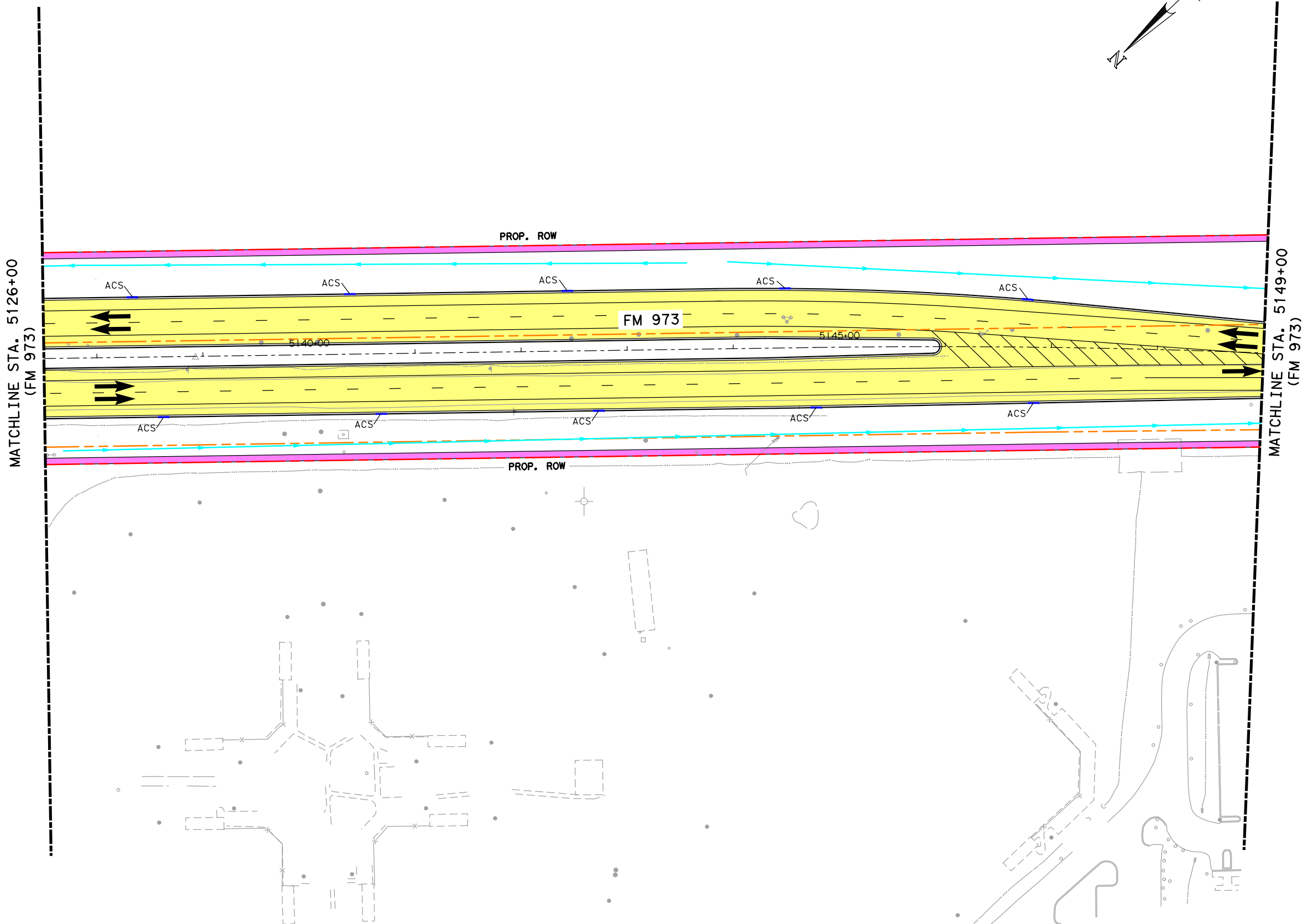
FM 973
DRAINAGE PLAN



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 3 OF 5			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			96
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



- LEGEND**
- ALIGNMENT
 - EXISTING ROW
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Lockwood, Andrews & Newnam, Inc. ID No. 2614

FM 973

DRAINAGE PLAN



LAN Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=100'

Texas Department of Transportation			
SHEET 4 OF 5			
FED. RD. DIST. NO.	STATE AID PROJECT		SHEET NO.
6			97
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONF.	SECT.	JOB	HIGHWAY NO.
			SH 71



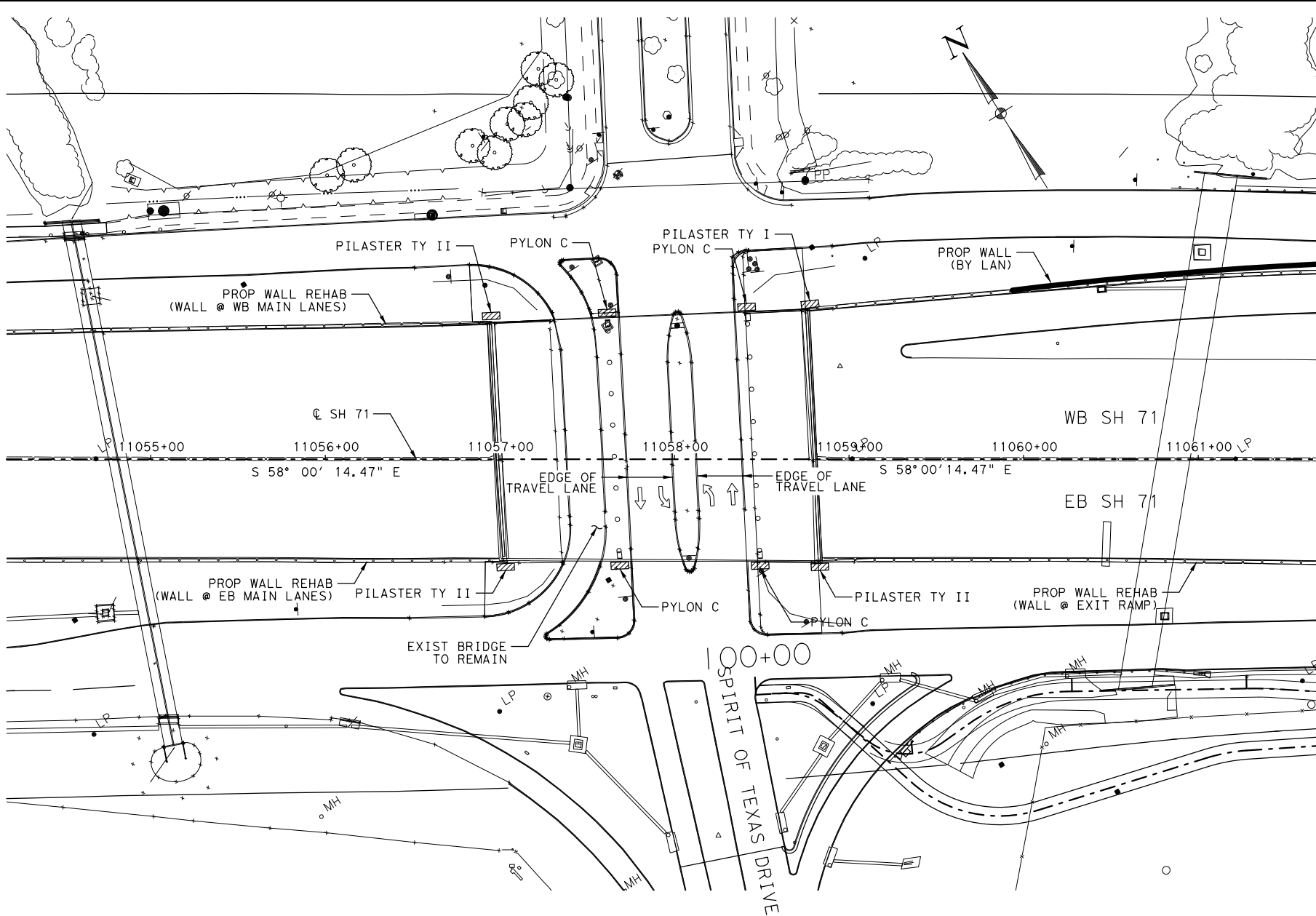
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DRAINAGE PLAN

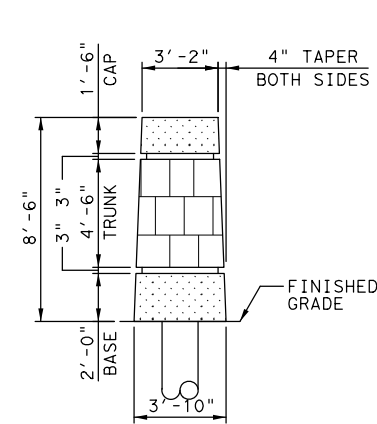


Texas Department of Transportation

FED. RD. DIV. NO.	STATE AID PROJECT			SHEET NO.
6				98
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
COUNT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

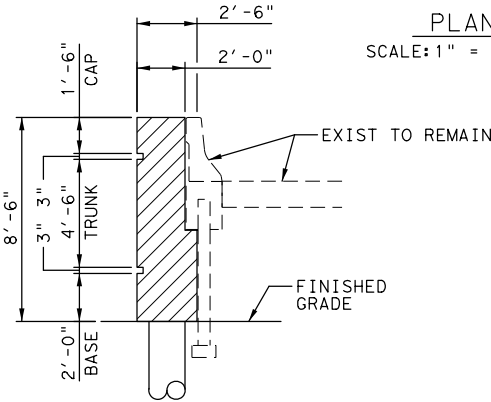


PLAN
SCALE: 1" = 80'-0"

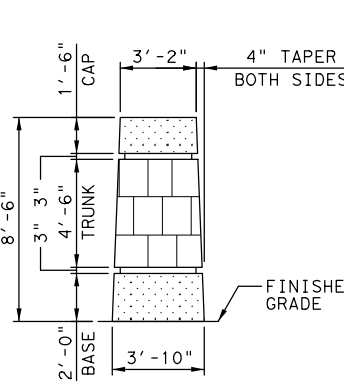


PILASTER TY I ELEVATION
PILASTER QUANTITIES:

NO. OF PILASTERS = 1
TOTAL CONCRETE VOLUME = 2.5 CY
24" DIA SHAFT LENGTH = 20 LF
SCALE: NTS

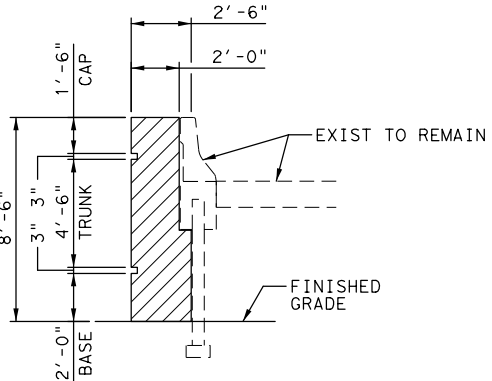


PILASTER TY I SECTION
SCALE: NTS



PILASTER TY II ELEVATION

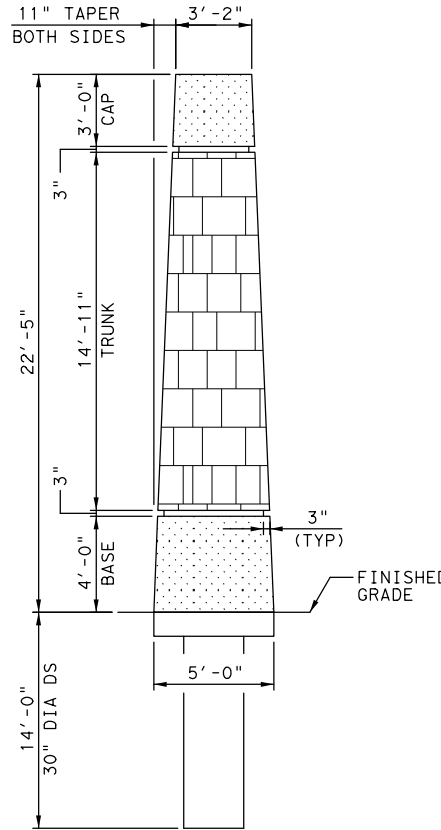
NOTE: PILASTERS TO BE CONSTRUCTED AS PART OF WALL REHABILITATION.
PILASTER QUANTITIES:
NO. OF PILASTERS = 3
CONCRETE VOLUME = 2.5 CY/PILASTER
TOTAL CONCRETE VOLUME = 7.5 CY
SCALE: NTS



PILASTER TY II SECTION

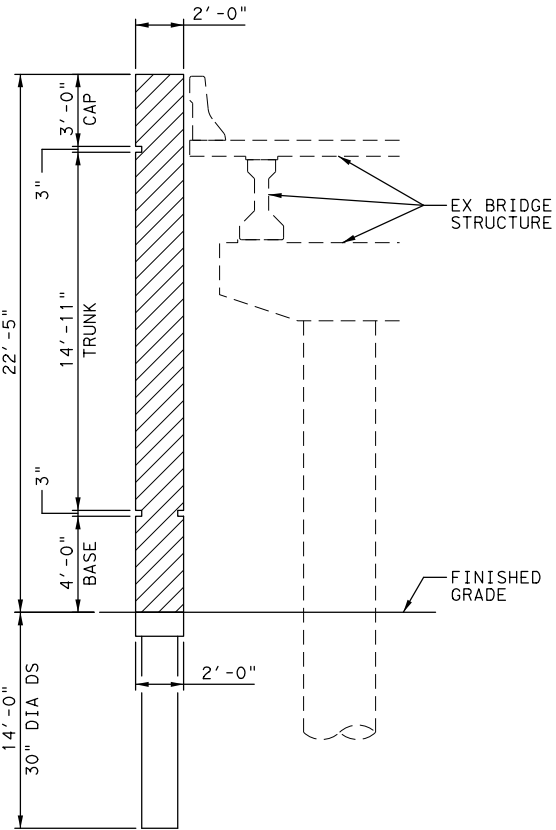
DESIGN LIFE CONSIDERATIONS:
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.



PYLON C ELEVATION

PYLON C QUANTITIES:
NO. OF PYLON C = 4
CONCRETE VOLUME = 6.8 CY/PYLON
TOTAL CONCRETE VOLUME = 27.2 CY
30" DIA SHAFT LENGTH = 56 LF
SCALE: NTS



PYLON C SECTION
SCALE: NTS

PRELIMINARY
FOR REVIEW ONLY
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Kimley-Horn and Associates, Inc.
Engineer: JONATHAN D. SEDELMAYER
P.E. No. 91651 Date 5/16/2014

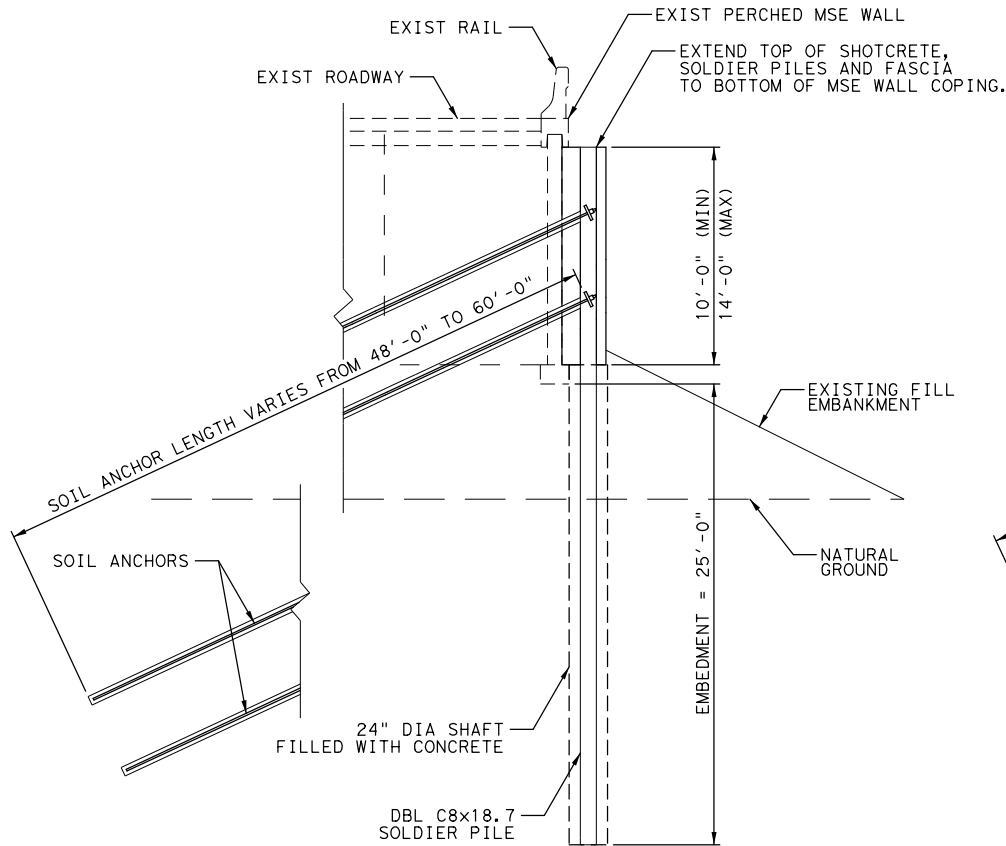
SH 71
BRIDGE LAYOUT

Kimley-Horn and Associates, Inc.
TEXAS REGISTERED ENGINEERING FIRM F-928

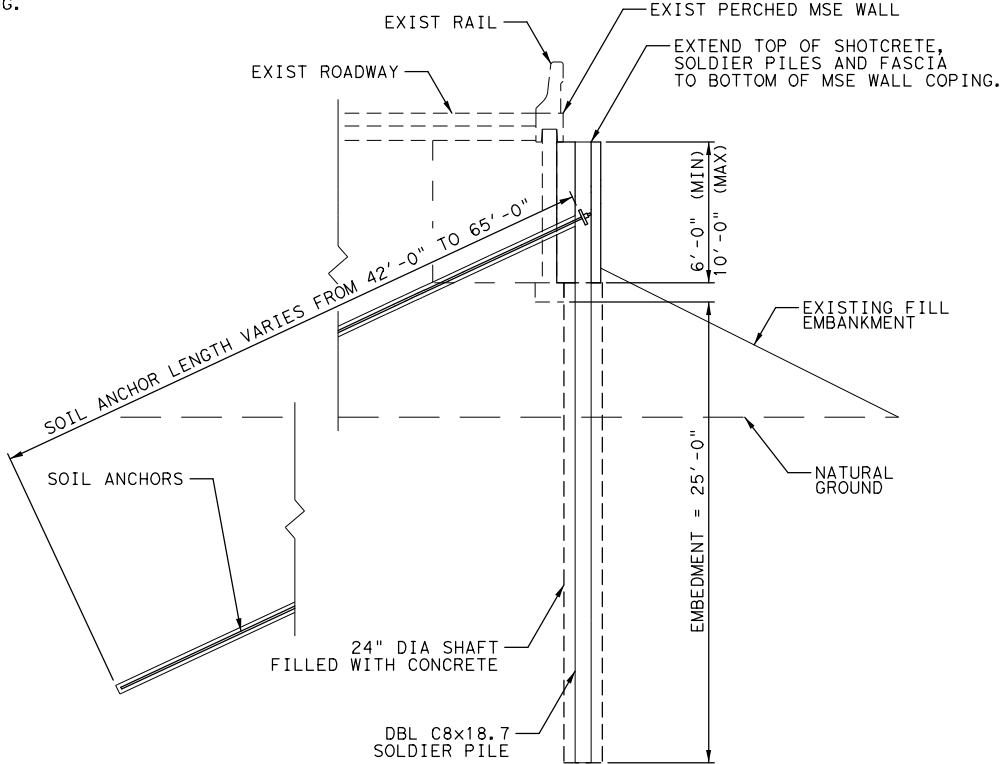
MCCARTHY

SPRIT OF TEXAS DRIVE

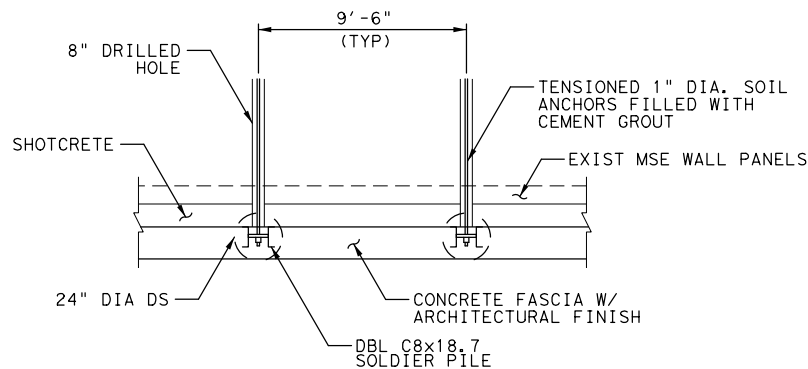
SHEET 1 OF 2			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			99
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



TYPICAL SECTION
(WALL HEIGHT 10'-14')
SCALE: NTS



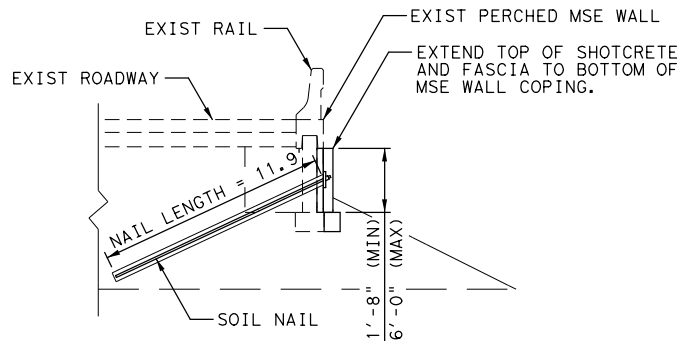
TYPICAL SECTION
(WALL HEIGHT 6'-10')
SCALE: NTS



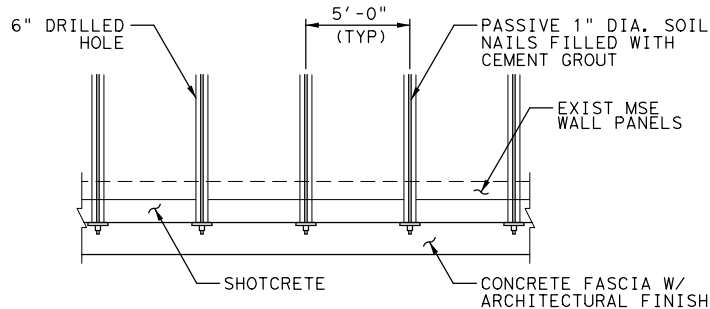
ANCHORED SOLDIER PILE DETAIL
SCALE: NTS

WALL REHABILITATION DESIGN CRITERIA

1. LATERAL EARTH PRESSURE
- ACTIVE WALL PRESSURE = 50 PCF
- LIVE LOAD SURCHARGE = 2 FT
2. COHESION
- ALLOWABLE STRESS = 400 PSF
- NEGLECT FIRST 25 LF OF ANCHORS
3. DRILLED SHAFT
- AVERAGE EMBEDMENT = 25 FT
- ALLOWABLE COHESION = 400 PSF
4. WALLS REQUIRE EXTERNAL BRACING DURING SOIL NAIL INSTALLATION.



TYPICAL SECTION
(WALL HEIGHT LESS THAN 6')
SCALE: NTS



SOIL NAIL DETAIL
SCALE: NTS

HL 93 LOADING

PRELIMINARY

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or permit purposes.



Engineer: JONATHAN D. SEIDELMEYER
P.E. No. 91651 Date 5/16/2014

SH 71
BRIDGE LAYOUT



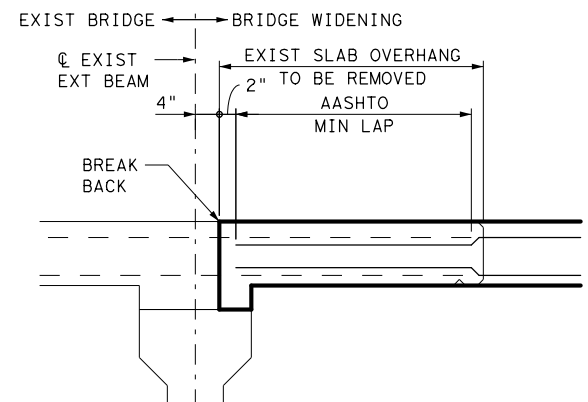
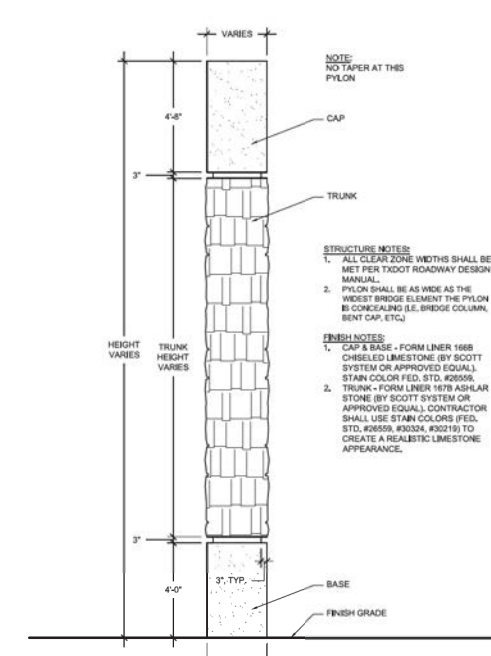
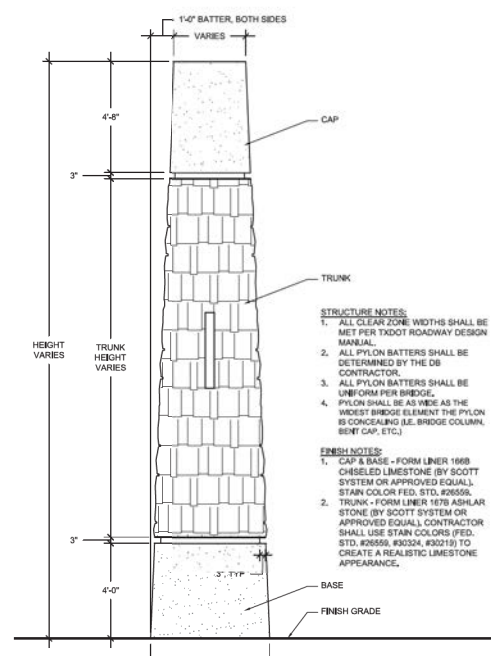
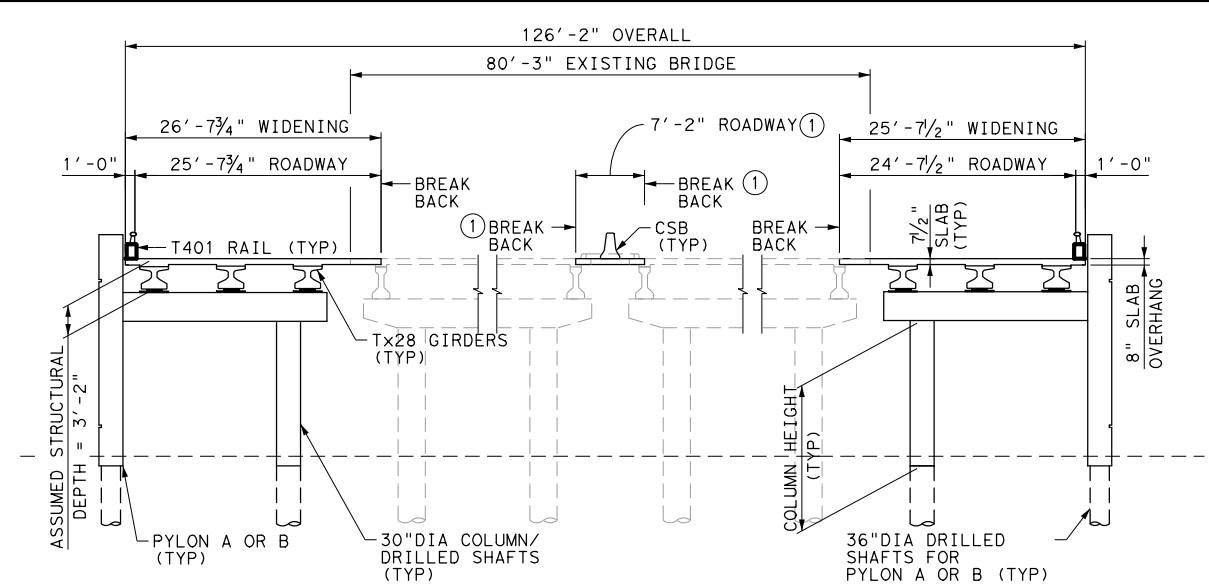
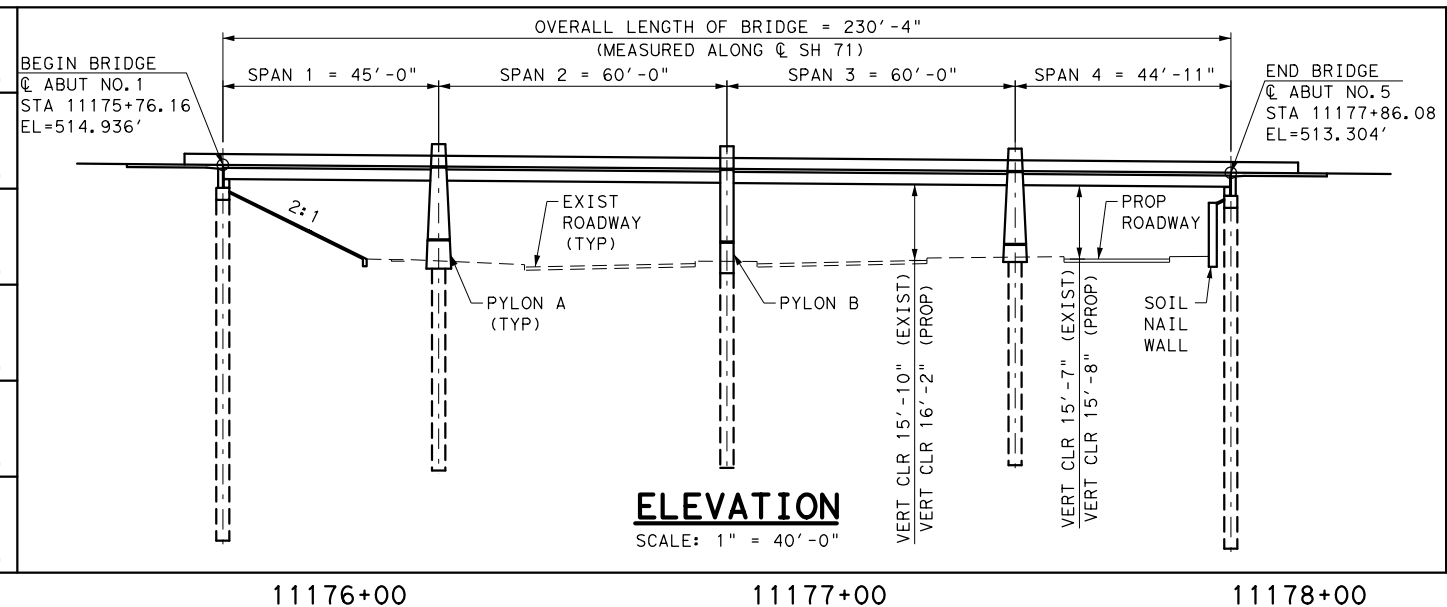
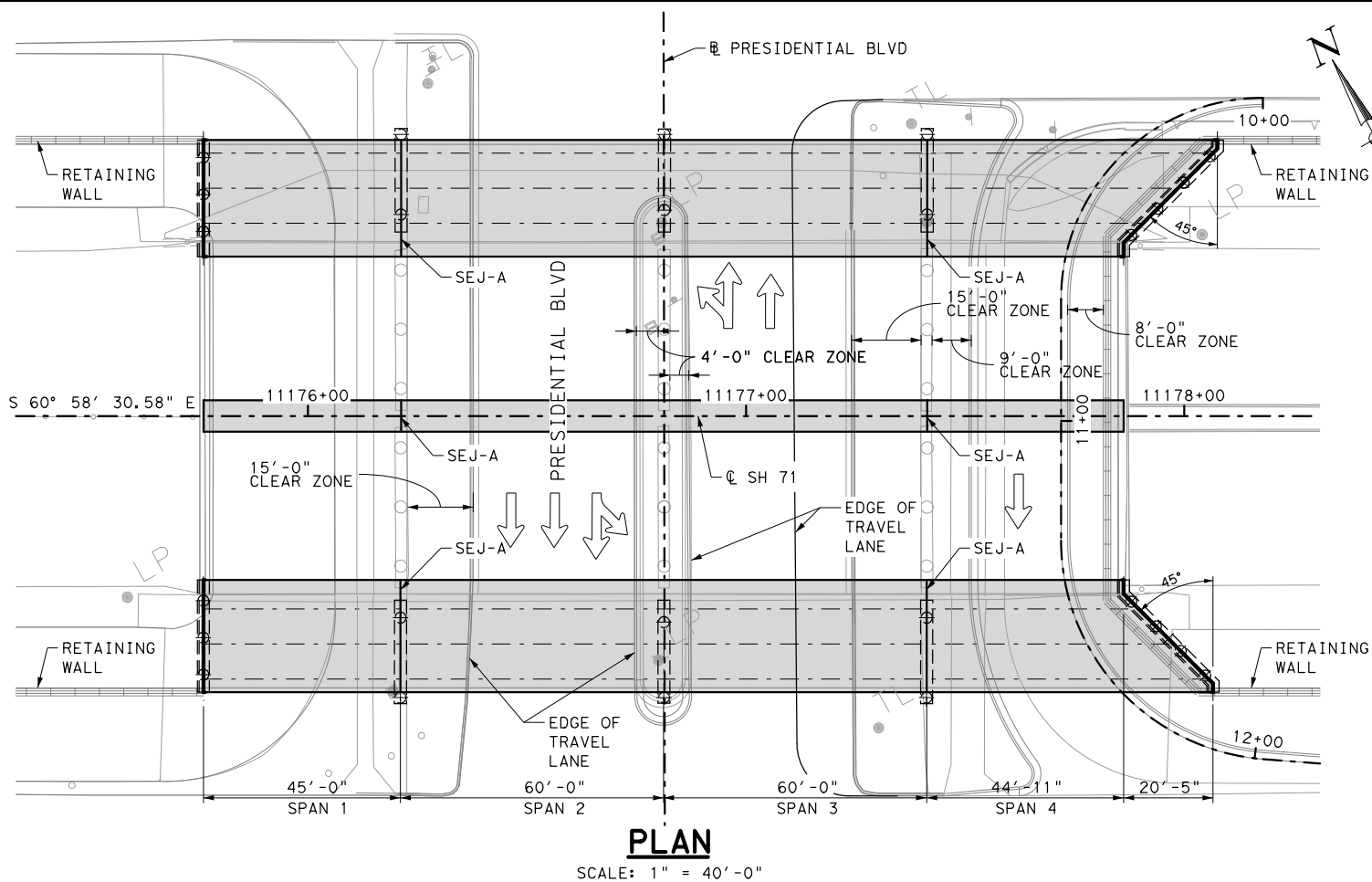
SPRIT OF TEXAS DRIVE



SHEET 2 OF 2

WALL LOCATION	BRIDGE REHABILITATION		SOLDIER PILE WALLS (HEIGHT > 6 FT)							SOIL NAIL WALLS (HEIGHT < 6 FT)			
	EPOXY INJECT	CONC REPAIR	WALL LENGTH	DRILL SHAFT (24")	SOLDIER PILES	PILE LENGTH	SOIL ANCHORS	ANCHOR LENGTH	FASCIA	WALL LENGTH	SOIL NAILS	NAIL LENGTH	FASCIA
	LF	SF	FT	LF	EA	FT	EA	LF	SF	FT	EA	FT	SF
WBML			476.5	1326	51	1775	80	2388	4943	130.0	26	310	526
EBML			363.5	1014	39	1395	65	2139	4164	60.0	12	143	198
EB EXIT RAMP			500.0	1378	53	1795	68	1940	4546	225.5	46	537	1008
TOTAL			1340.0	3718	143	4965	213	6467	13653	415.5	84	990	1732

FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			100
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71



DESIGN LIFE CONSIDERATIONS:
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

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PRESIDENTIAL BLVD WIDENING



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SCALE: 1"=40'

TEXAS Department of Transportation

SHEET 1 OF 3	
FED. RD. DIV. NO.	STATE AID PROJECT
6	101
STATE	COUNTY
TEXAS	TRAVIS
CONT.	HIGHWAY NO.
	SH 71

5/16/2014 10:31:36 AM

Span/ Bent or -but	Span Data									Bent Cap/-but Data							
	-vg Span Length	New Bridge Deck Width	Slab Deck -rea	# of Girders	Girder Type	Total Girder Length	SEJ-- Total Length	T401 Rail*	CSB Rail*	Length	Depth	Width	Volume	Total Primary Rebar	Total Skin Rebar	Stirrups	-but Rebar
-	FT	FT	SF	E-	-	FT	FT	FT	FT	FT	FT	FT	CY	-	-	-	#/CY
1	45.00	59.4	2,673	6	Tx28	267.0	0.0	90.0	45.0	52.2	2.50	2.75	18.6	-	-	-	220.0
2	60.00	59.4	3,564	6	Tx28	357.0	58.7	120.0	60.0	47.0	3.50	2.75	17.1	10 - #11	10 - #5	2 - #5 at 5"	-
3	60.00	59.4	3,564	6	Tx28	357.0	0.0	120.0	60.0	47.0	3.50	2.75	17.1	10 - #11	10 - #5	2 - #5 at 5"	-
4	56.34	59.4	3,347	6	Tx28	335.0	58.7	130.7	45.0	47.0	3.50	2.75	17.1	10 - #11	10 - #5	2 - #5 at 5"	-
5	-	-	-	-	-	-	-	-	-	69.6	2.50	2.75	24.6	-	-	-	220.0
Total	221.34	-	13,148	-	-	1,316.0	117.4	460.7	210.0	-	-	-	94.5	-	-	-	-

* Rail lengths measured from face of backwall to face of backwall.

Span/ Bent or -but	Column Data				Pylon Data				Foundation Data						
	# of 30 IN Dia. Columns	Height of 1 Column	Vert. Rebar (Per Col)	Spiral Rebar (Per Col)	Pylon - Volume**	Pylon B Volume**	Vert. Rebar (Per Col)	Transv. Rebar (Per Col)	# of Drilled Shafts		Length of 1 DS	Total Drilled Shaft Length (30 IN dia.)	Total Drilled Shaft Length (36 IN dia.)	Vert. Rebar (Per DS)	Spiral Rebar (Per DS)
-	E-	FT	-	-	CY	CY	-	-	30" (E-)	36" (E-)	FT	FT	FT	-	-
1	-	-	-	-	0.0	0	-	-	6	0	71	426	0	8 - #9	#3 at 6" Pch
2	2	15.5	10 - #10	#3 at 6" Pch	24.0	0.0	14 - #10	#4 at 12"	2	2	57	114	114	10 - #10	#3 at 6" Pch
3	2	15.5	10 - #10	#3 at 6" Pch	0.0	12.5	12 - #10	#3 at 12"	2	2	56	112	112	10 - #10	#3 at 6" Pch
4	2	15.5	10 - #10	#3 at 6" Pch	24.0	0.0	14 - #10	#4 at 12"	2	2	55	110	110	10 - #10	#3 at 6" Pch
5	-	-	-	-	0.0	0.0	-	-	8	0	71	568	0	8 - #9	#3 at 6" Pch
Total	-	-	-	-	48.0	12.5	-	-	-	-	-	1,330	336	-	-

** -ssuming Pylon Height of 27 feet.

① SUBJECT TO CH-NGE WITH -PPROV-L OF -TC #7.

Soil Nail Wall Quantities		
Item	Unit	Quantity
Area	SF	2,270.0
Nails	EA	116.0
Total Nail Length	LF	1,300.0

NOTE: N-IL LENGTH -SSUMES - N-IL B-TTER -NGLE OF 10 DEGREES FROM THE HORIZONTAL.

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BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

PRESIDENTIAL BLVD
EST QTY's



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

NOT TO SC-LE

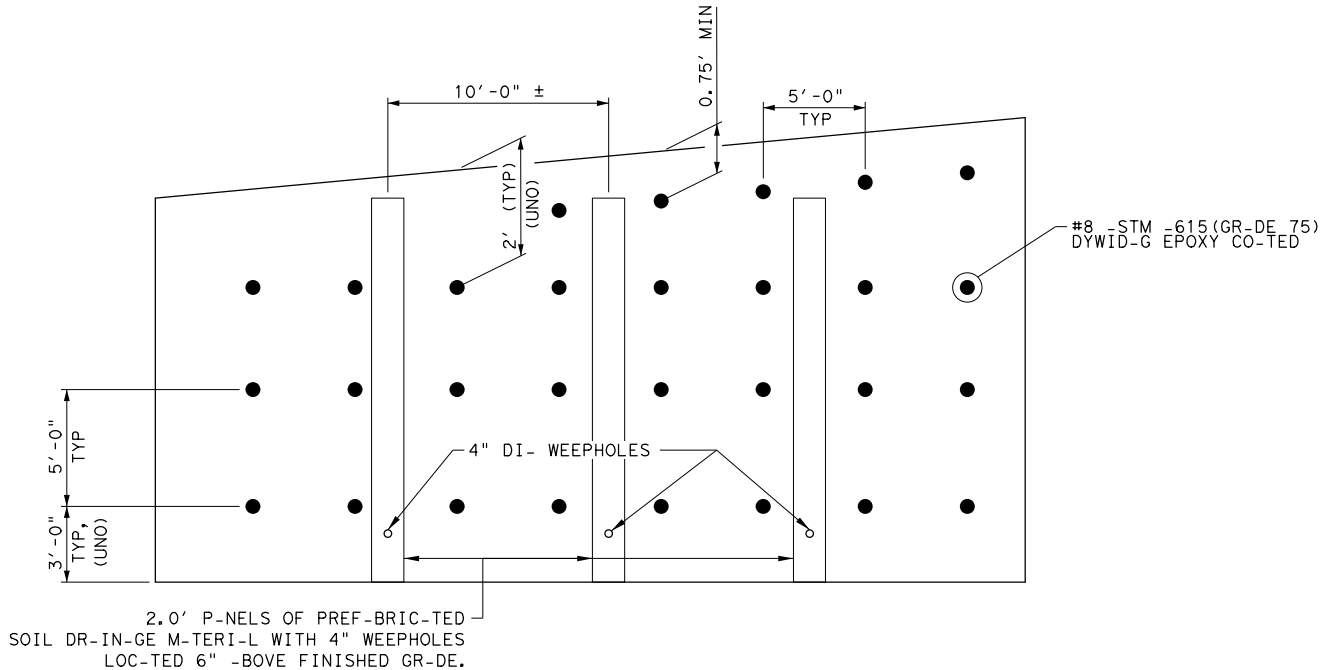
SHEET 2 OF 3

DESIGN LIFE CONSIDER-TIONS:

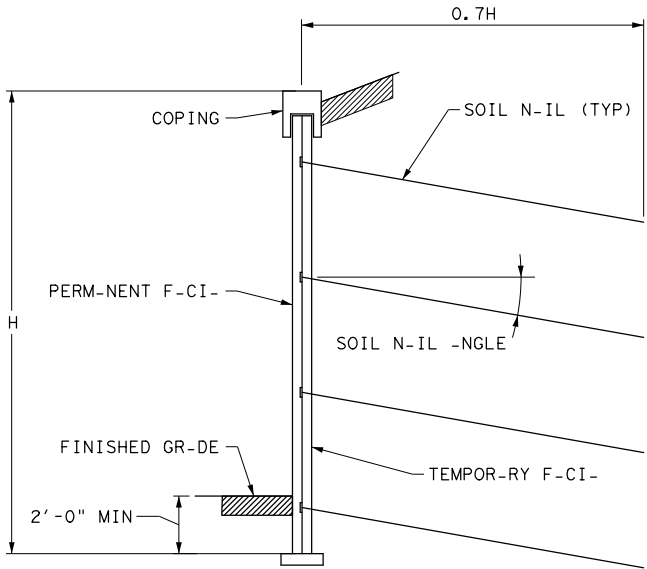
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

FED. RD. DIV. NO.	ST-TE -ID PROJECT		SHEET NO.
6			102
ST-TE	ST-TE DIST. NO.	COUNTY	
TEX-S		TR-VIS	
CONT.	SECT.	JOB	HIGHW-Y NO.
			SH 71

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TYPICAL SOIL NAIL SPACING
SC-LE: NTS



TYPICAL SOIL NAIL WALL SECTION
SC-LE: NTS

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**PRESIDENTIAL BLVD
SOIL NAIL WALL DETAILS**



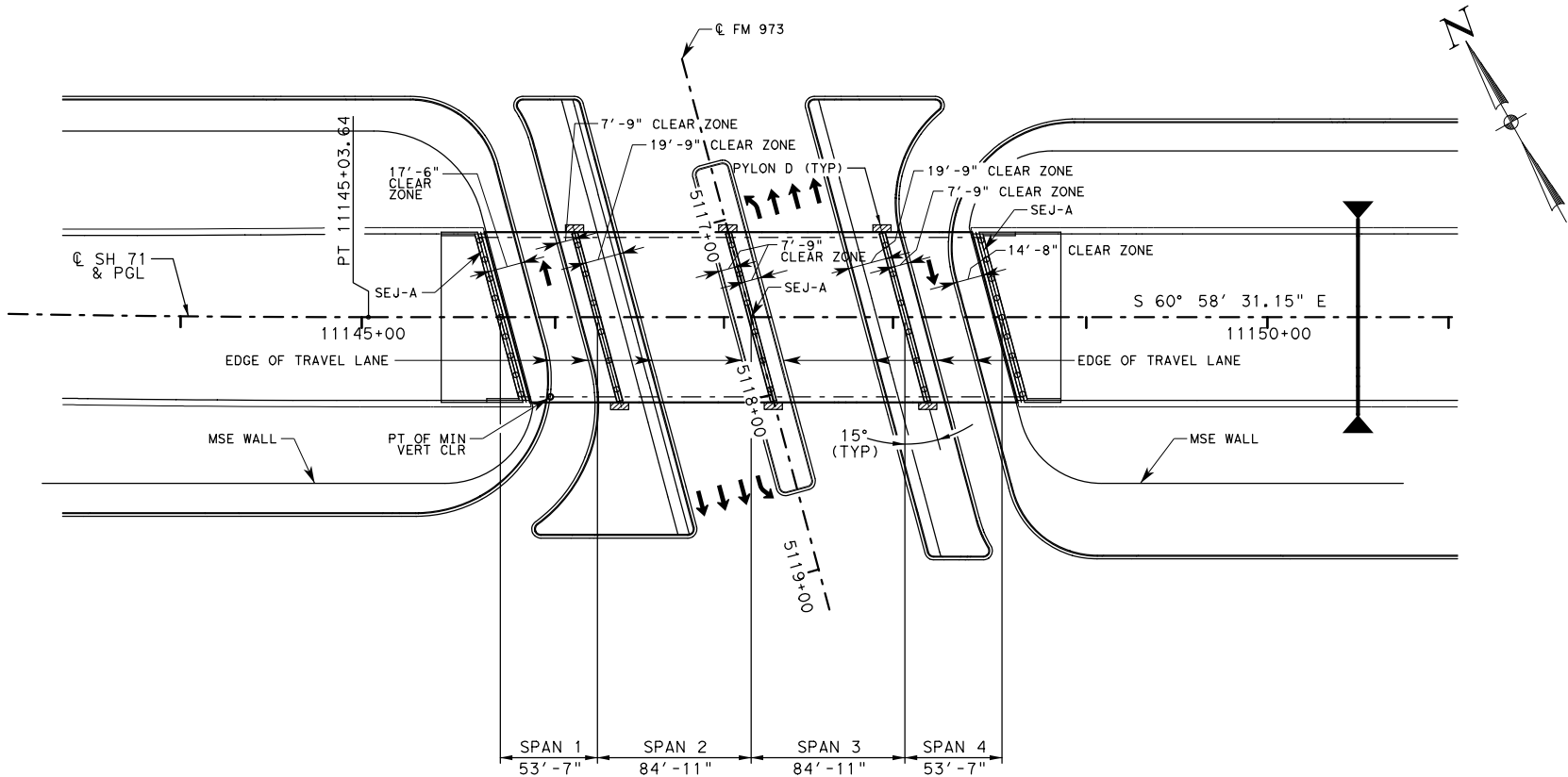
Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

NOT TO SC-LE

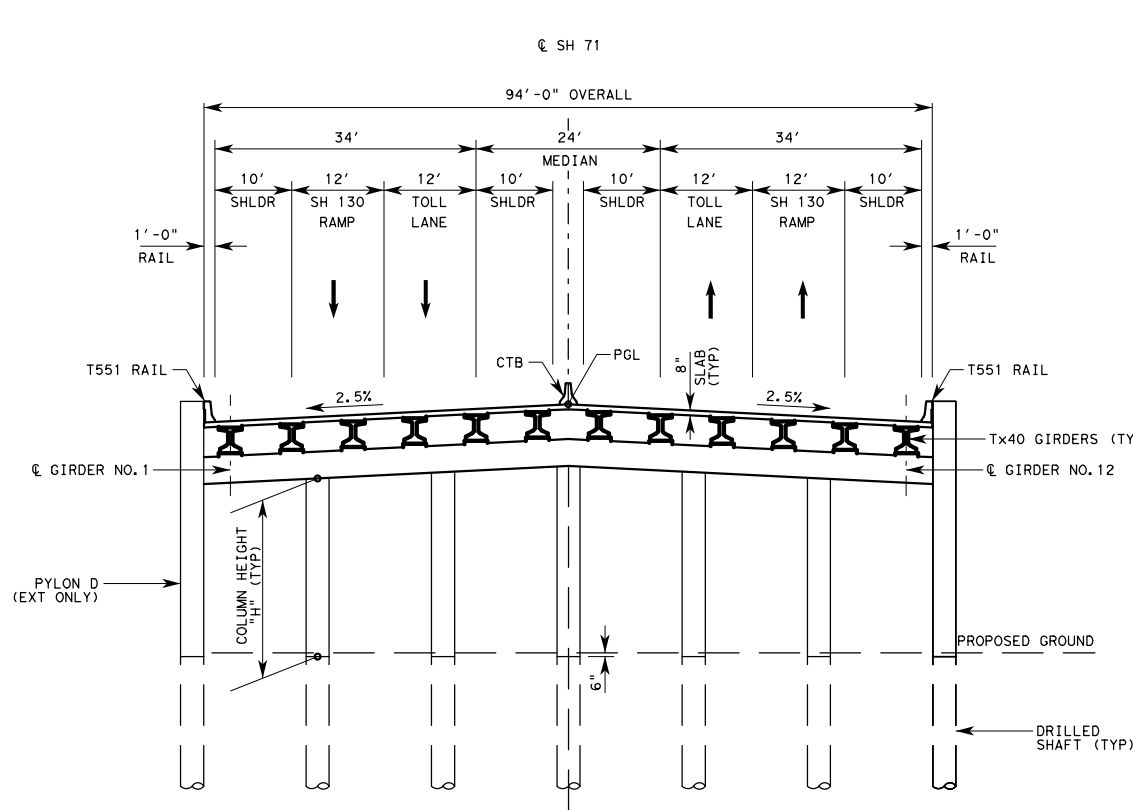
DESIGN LIFE CONSIDERATIONS:

NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

FED. RD. DIV. NO.		ST-TE - ID PROJECT		SHEET NO.
6				103
ST-TE	ST-TE DIST. NO.	COUNTY		
TEX-S		TR-VIS		
CONT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

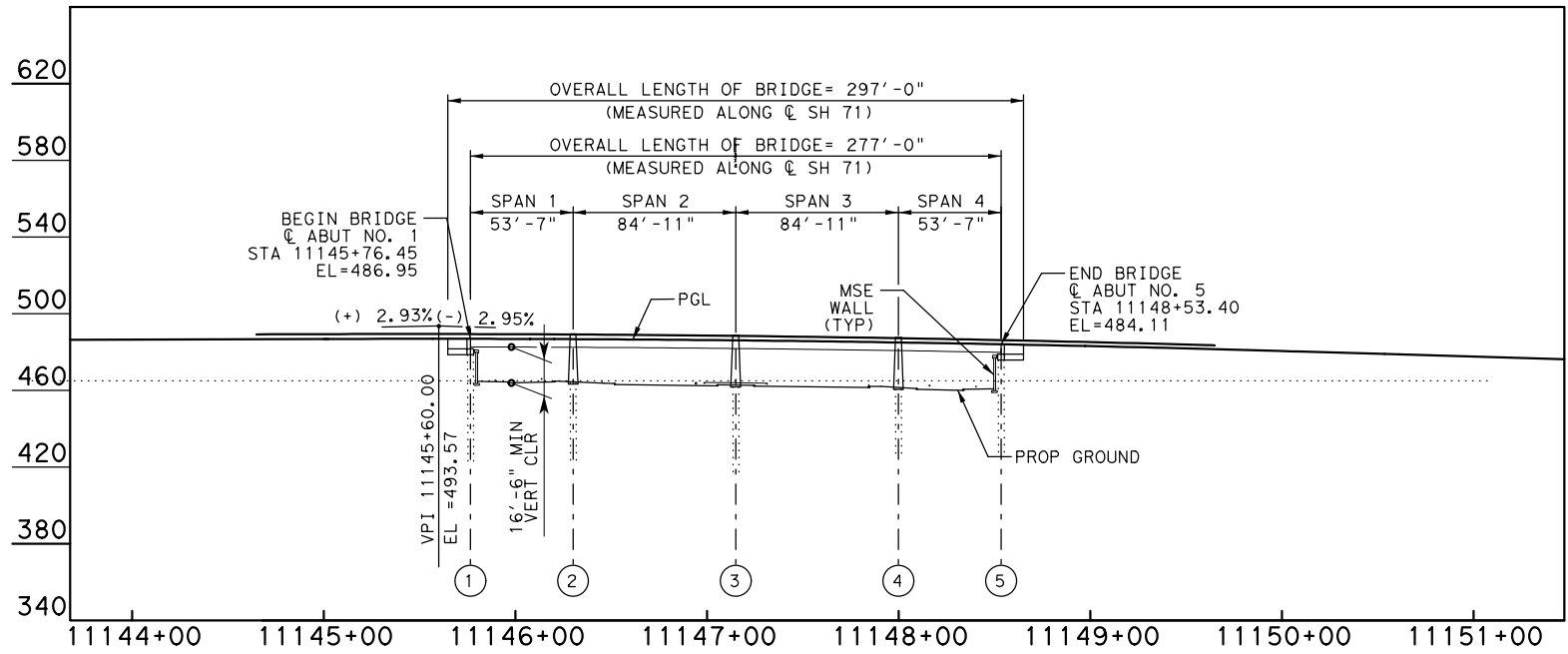


PLAN
SCALE: 1"=100'-0"

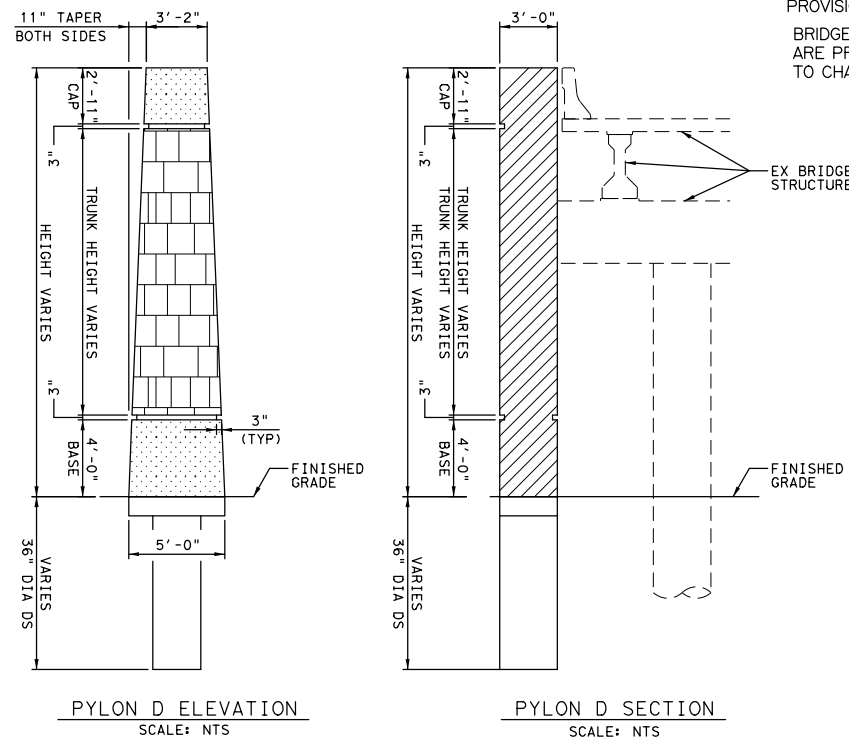


TYPICAL SECTION
SCALE: NTS

DESIGN LIFE CONSIDERATIONS:
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.
BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.



ELEVATION
SCALE: 1" = 100'-0"



PYLON D ELEVATION
SCALE: NTS

PYLON D SECTION
SCALE: NTS

PRELIMINARY
FOR REVIEW ONLY
Not for construction, bidding, or permit purposes.
Kimley-Horn and Associates, Inc.
Engineer: JONATHAN D. SEDDELMAYER
P.E. No. 91651 Date 5/16/2014

SH 71
BRIDGE LAYOUT

Kimley-Horn and Associates, Inc.
TEXAS REGISTERED ENGINEERING FIRM F-928

MCCARTHY

SH 973 BRIDGE LAYOUT

Texas Department of Transportation			
SHEET 1 OF 2			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			104
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71

SP-N BENT OR -BUT	SP-N D-T-									BENT/-BUTMENT C-P D-T-							
	SP-N LENGTH	BRIDGE WIDTH	SL-B DECK -RE-	# OF GIRDERS	GIRDER TYPE	TOT-L GIRDER LENGTH	SEJ-- TOT-L LENGTH	T551 R-IL	CSB R-IL	LENGTH	DEPTH	WIDTH	VOLUME	PRIM-RY REB-R	SKIN REB-R	STIRRUP	-BUT REB-R
-	FT	FT	SF	E-	-	FT	FT	FT	FT	FT	FT	FT	CY	-	-	-	#/CY
1	53.58	94	5037	12	Tx40	637.0	96.5	107.2	53.6	97.3	2.5	3.5	49.9	10 - #11	2 - #11	#5 @ 6"	220.0
2	84.92	94	7982	12	Tx40	1013.0	0.0	169.8	84.9	96.0	3.5	3.5	43.6	12 - #11	10 - #5	#5 @ 8"	-
3	84.92	94	7982	12	Tx40	1013.0	96.5	169.8	84.9	96.0	3.5	3.5	43.6	12 - #11	10 - #5	#5 @ 8"	-
4	53.58	94	5037	12	Tx40	637.0	0.0	107.2	53.6	96.0	3.5	3.5	43.6	12 - #11	10 - #5	#5 @ 8"	-
5							96.5			97.3	2.5	3.5	49.9	10 - #11	2 - #11	#5 @ 6"	220.0
TOT-L	277.00	-	26038	-	-	3300.0	289.5	554.0	277.0	-	-	-	230.6	-	-	-	-

*Rail lengths measured from face of backwall to face of backwall.

SP-N BENT OR -BUT	COLUMN D-T-				PYLON D-T-			FOUND-TION D-T-				
	# OF 36" DI- COLUMNS	HEIGHT OF 1 COLUMN	VERTIC-L REB-R	TR-NSV. REB-R	PYLON D VOLUME	VERTIC-L REB-R	TR-NSV. REB-R	# OF 36" DRILLED SH-FTS	LENGTH OF 1 DS	TOT-L DS LENGTH (36" DI-)	VERTIC-L REB-R	SPIR-L REB-R
-	E-	FT	-	-	CY	-	-	E-	FT	FT	-	-
1	-	-	-	-	-	-	-	10	70	700	10 - #9	#3 @ 6" PCH
2	5	16	10 - #9	#3 -T 6" PCH	24.3	18 - #10	#3 @ 12"	7	60	420	10 - #9	#3 @ 6" PCH
3	5	17	10 - #9	#3 -T 6" PCH	25.2	18 - #10	#3 @ 12"	7	60	420	10 - #9	#3 @ 6" PCH
4	5	17	10 - #9	#3 -T 6" PCH	25.2	18 - #10	#3 @ 12"	7	60	420	10 - #9	#3 @ 6" PCH
5	-	-	-	-	-	-	-	10	70	700	10 - #9	#3 @ 6" PCH
TOT-L	-	-	-	-	74.7	-	-	-	-	2660	-	-

PRELIMINARY

FOR REVIEW ONLY
Not for construction, bidding,
or permit purposes.

Kimley-Horn
and -associates, Inc.

Engineer: JON-THON D. SEDDELMAYER
P.E. No. 91651 Date 5/16/2014

SH 71
BRIDGE LAYOUT

Kimley-Horn
and Associates, Inc.

TEX-S REGISTERED ENGINEERING FIRM F-928

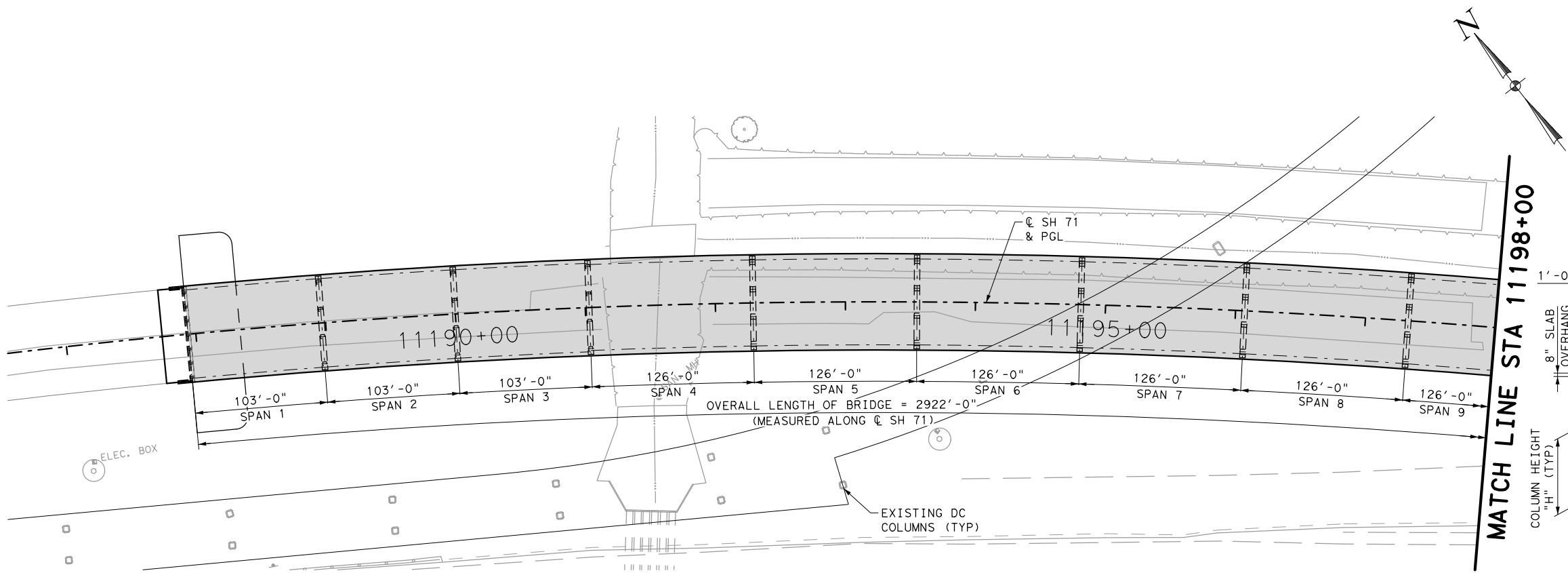
MCCARTHY

SH 973

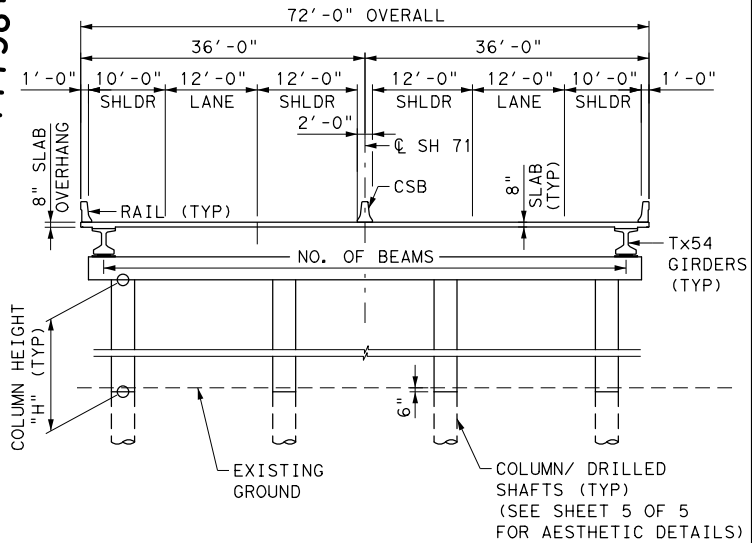
Texas Department of Transportation

SHEET 2 OF 2

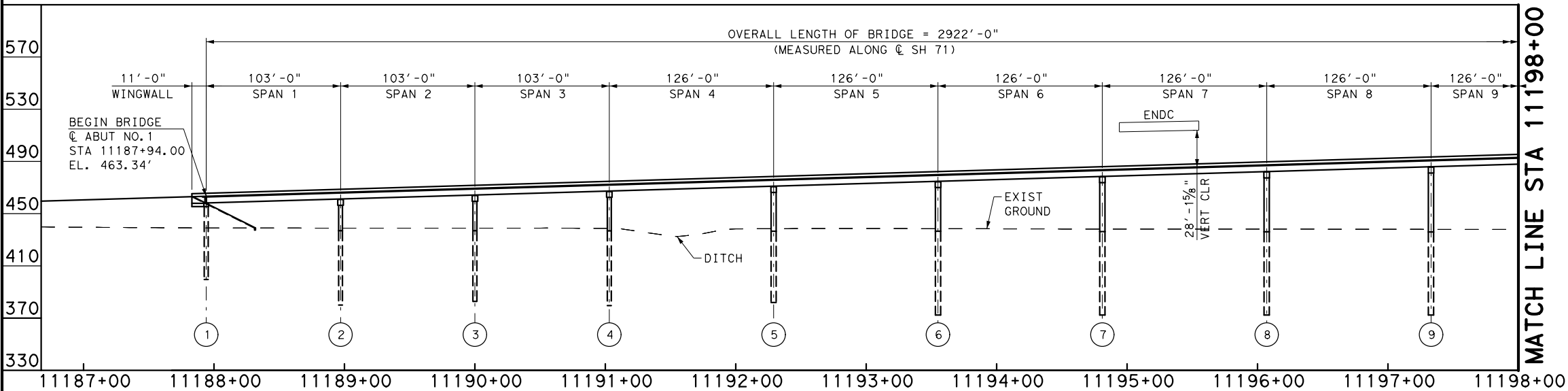
FED. RD. DIV. NO.	ST-TE - ID PROJECT	SHEET NO.
6		105
ST-TE	ST-TE DIST. NO.	COUNTY
TEX-S		TR-VIS
CONT.	SECT.	JOB
		HIGHWAY NO.
		SH 71



PLAN
SCALE: 1" = 100'-0"



CROSS SECTION TYPICAL BENT
SCALE: NTS



ELEVATION
SCALE: 1" = 100'-0"

INTERIM REVIEW ONLY
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BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SH 130 FLYOVER



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

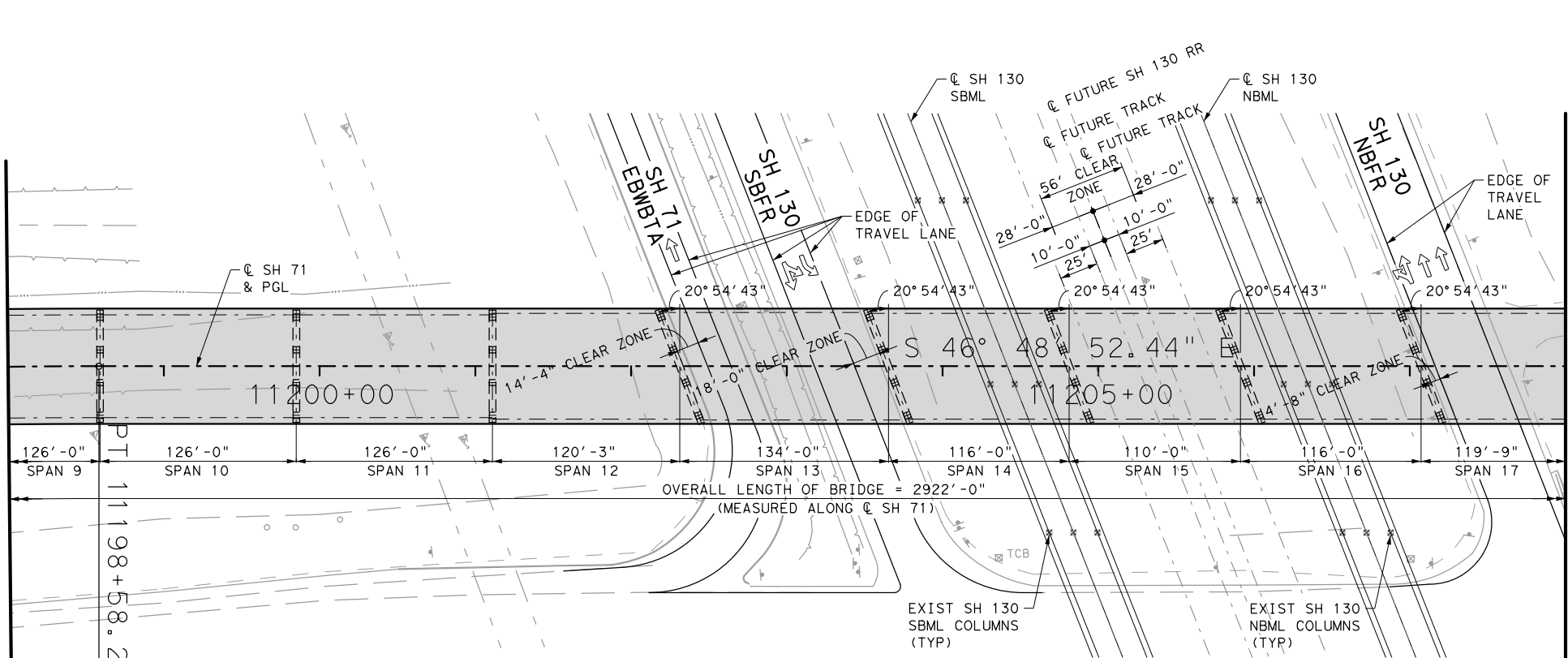
SCALE: 1"=100'

Texas Department of Transportation

DESIGN LIFE CONSIDERATIONS:
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

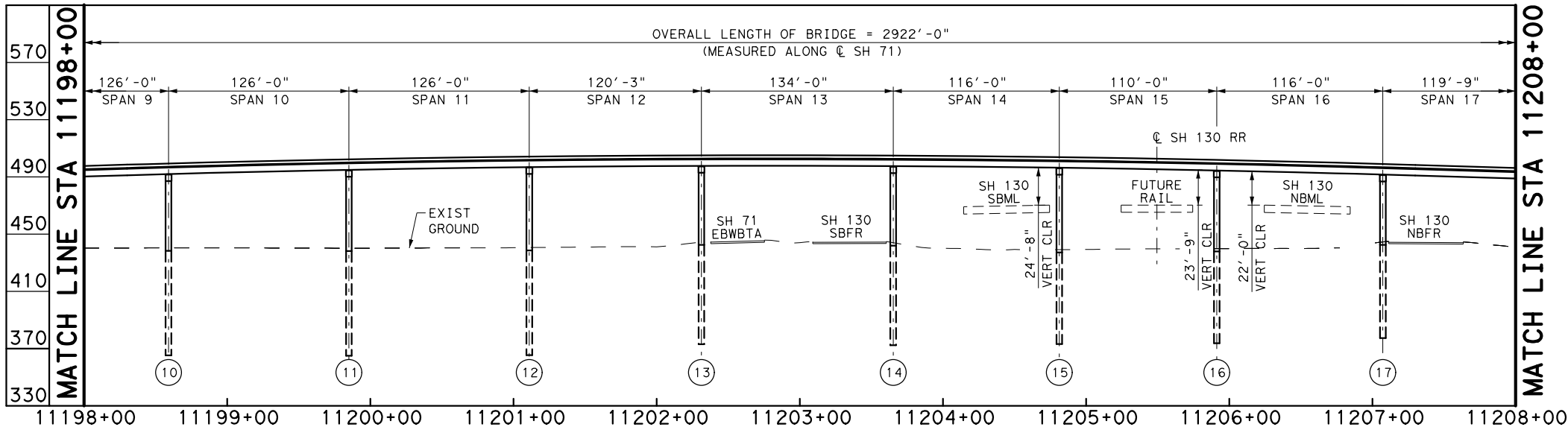
FED. RD. DIV. NO.		STATE AID PROJECT		SHEET NO.
6				106
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

MATCH LINE STA 11198+00



PLAN

SCALE: 1" = 100'-0"



ELEVATION

SCALE: 1" = 100'-0"

INTERIM REVIEW ONLY

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BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SH 130 FLYOVER



Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY TBPE Firm No. 2614

SCALE: 1"=100'

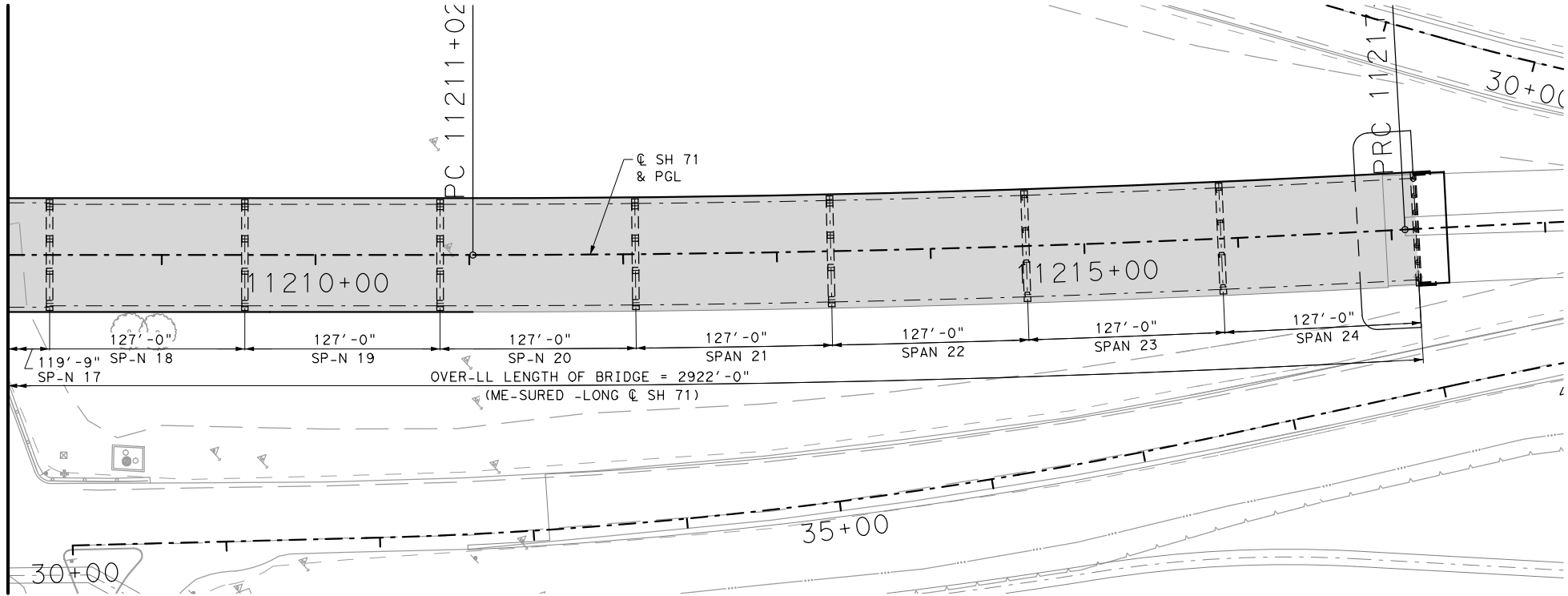


SHEET 2 OF 5			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			107
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71

DESIGN LIFE CONSIDERATIONS:

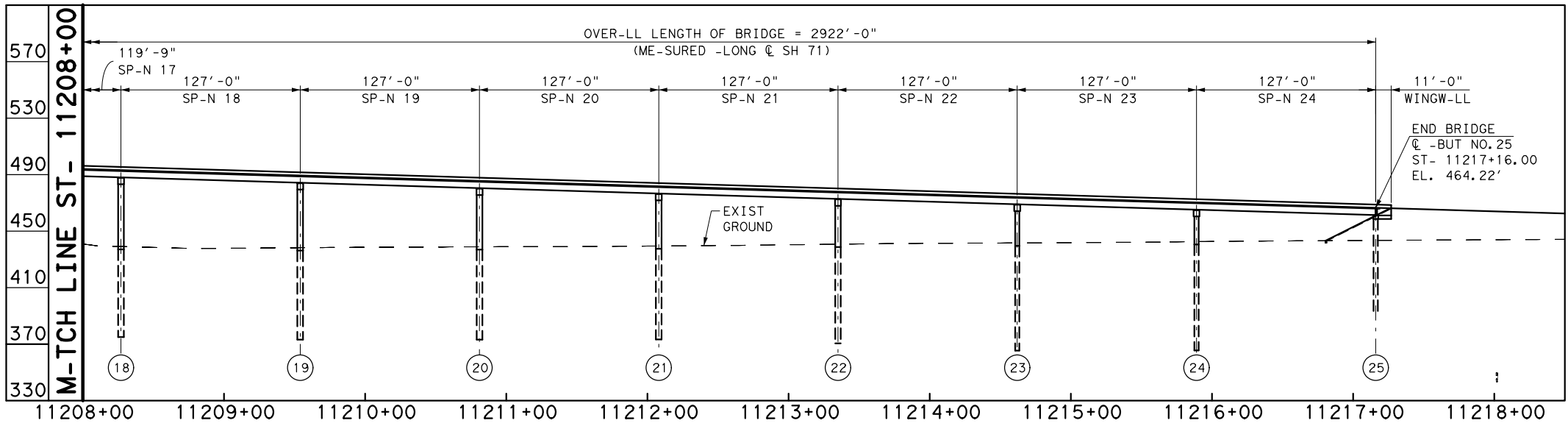
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

M-TCH LINE ST- 11208+00



PL-N

SC-LE: 1" = 100'-0"



ELEVATION

SC-LE: 1" = 100'-0"

INTERIM REVIEW ONLY
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BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SH 130 FLYOVER

MCCARTHY

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

SC-LE: 1"=100'

Texas Department of Transportation

SHEET 3 OF 5

DESIGN LIFE CONSIDERATIONS:

NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

FED. RD. DIV. NO.	ST-TE - ID PROJECT	SHEET NO.
6		108
ST-TE	ST-TE DIST. NO.	COUNTY
TEX-S		TR-VIS
CONT.	SECT.	JOB
		HIGHWAY NO.
		SH 71

5/16/2014 10:32:24 AM

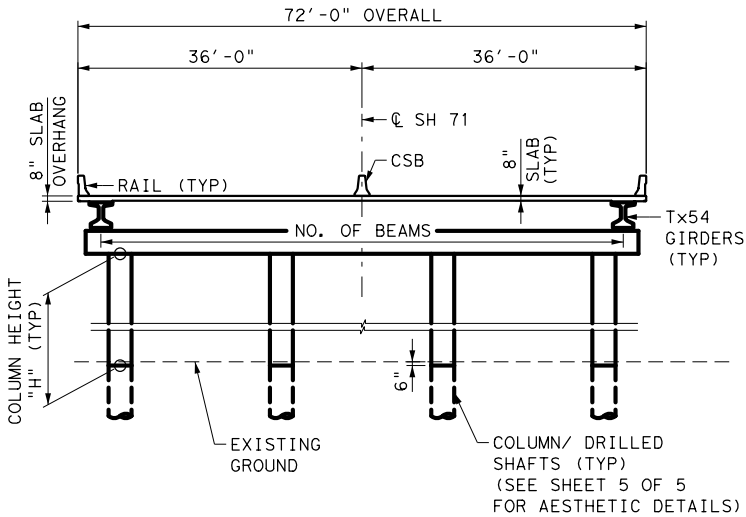
QUANTITIES FOR 72' BRIDGE WIDTH

Span/ Bent or Abut	Span Data										Bent Cap / Abut Data							
	Span Length	Bridge Width	Slab Deck Area	# of Girders	Slab Overhang	Girder Type	Total Girder Length	SEJ-A Total Length	T551 Rail*	CSB Rail**	Length	Depth	Width	Volume	Total Primary Rebar	Total Skin Rebar	Stirrups	Abutment Rebar
-	FT	FT	SF	EA	FT	-	FT	FT	FT	FT	FT	FT	FT	CY	-	-	-	#/CY
1	103.00	72	7,416	7	3.0	Tx54	717.5	71.3	228.0	103.0	72	2.5	3.50	44.5	-	-	-	220.0
2	103.00	72	7,416	7	3.0	Tx54	717.5	0.0	206.0	103.0	70	4.5	4.25	50.0	12 - #11	12 - #5	#6 at 12'	-
3	103.00	72	7,416	7	3.0	Tx54	717.5	0.0	206.0	103.0	70	4.5	4.25	50.0	12 - #11	12 - #5	#6 at 12'	-
4	126.00	72	9,072	9	4.0	Tx54	1,129.5	71.3	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
5	126.00	72	9,072	9	4.0	Tx54	1,129.5	0.0	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
6	126.00	72	9,072	9	4.0	Tx54	1,129.5	71.3	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
7	126.00	72	9,072	9	4.0	Tx54	1,129.5	0.0	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
8	126.00	72	9,072	9	4.0	Tx54	1,129.5	71.3	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
9	126.00	72	9,072	9	4.0	Tx54	1,129.5	0.0	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
10	126.00	72	9,072	9	4.0	Tx54	1,129.5	71.3	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
11	126.00	72	9,072	9	4.0	Tx54	1,129.5	0.0	252.0	126.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
12	120.25	72	8,658	10	3.0	Tx54	1,197.5	71.3	240.5	120.3	70	4.5	4.25	50.2	17 - #11	12 - #5	#6 at 8"	-
13	134.00	72	9,648	12	2.5	Tx54	1,602.0	0.0	268.0	134.0	76	4.5	4.25	54.5	22 - #11	12 - #5	#6 at 5"	-
14	116.00	72	8,352	8	3.0	Tx54	924.0	76.3	232.0	116.0	76	4.5	4.25	54.4	22 - #11	12 - #5	#6 at 5"	-
15	110.00	72	7,920	7	3.0	Tx54	766.5	0.0	220.0	110.0	76	4.5	4.25	54.3	22 - #11	12 - #5	#6 at 5"	-
16	116.00	72	8,352	8	3.0	Tx54	924.0	76.3	232.0	116.0	76	4.5	4.25	54.3	22 - #11	12 - #5	#6 at 5"	-
17	119.75	72	8,622	10	3.0	Tx54	1,192.5	0.0	239.5	119.8	76	4.5	4.25	54.4	22 - #11	12 - #5	#6 at 5"	-
18	127.00	72	9,144	9	4.0	Tx54	1,138.5	71.3	254.0	127.0	70	4.5	4.25	50.2	17 - #11	12 - #5	#6 at 8"	-
19	127.00	72	9,144	9	4.0	Tx54	1,138.5	0.0	254.0	127.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
20	127.00	72	9,144	9	4.0	Tx54	1,138.5	71.3	254.0	127.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
21	127.00	72	9,144	9	4.0	Tx54	1,138.5	0.0	254.0	127.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
22	127.00	72	9,144	9	4.0	Tx54	1,138.5	71.3	254.0	127.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
23	127.00	72	9,144	9	4.0	Tx54	1,138.5	0.0	254.0	127.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
24	127.00	72	9,144	9	4.0	Tx54	1,138.5	71.3	276.0	127.0	70	4.5	4.25	50.1	17 - #11	12 - #5	#6 at 8"	-
25	-	-	-	-	-	-	-	71.3	-	-	72	2.5	3.50	44.5	-	-	-	220.0
Total	2,922.00	-	210,384	-	-	-	25,764.5	936.9	5,888.0	2,922.1	-	-	-	1,262.7	-	-	-	-

* Rail lengths measured from face of end of wingwall to end of wingwall.

** CSB Rail measured from face of backwall to face of backwall.

Span/ Bent or Abut	Column Data								Foundation Data								
	# of Columns	Height of 1 Column	Depth	Width	Volume	Vert. Rebar (Per Col)	Transv. Rebar (Per Col)	# of Drilled Shafts	Drilled Shaft Size	Length of 1 DS	Total Drilled Shaft Length (36 IN dia.)	Total Drilled Shaft Length (42 IN dia.)	Total Drilled Shaft Length (48 IN dia.)	Vert. Rebar (Per DS)	Spiral Rebar (Per DS)	Riprap (RR9)	
-	EA	FT	FT	FT	CY	-	-	EA	IN	FT	FT	FT	FT	-	-	CY	
1	-	-	-	-	-	-	-	7	36	56	392	0	0	10 - #9	#3 at 6" Pch	92.6	
2	4	17.1	3.0	3.0	22.8	16 - #9	#3 at 12"	4	36	53	212	0	0	10 - #9	#3 at 6" Pch	0.0	
3	4	20.2	3.0	3.0	26.9	16 - #9	#3 at 12"	4	36	53	212	0	0	10 - #9	#3 at 6" Pch	0.0	
4	4	23.2	3.0	3.0	30.9	16 - #9	#3 at 12"	4	36	57	228	0	0	10 - #9	#3 at 6" Pch	0.0	
5	4	27.5	3.0	3.0	36.7	16 - #9	#3 at 12"	4	36	62	248	0	0	14 - #9	#3 at 6" Pch	0.0	
6	4	31.1	3.0	3.0	41.5	16 - #9	#3 at 12"	4	36	62	248	0	0	14 - #9	#3 at 6" Pch	0.0	
7	4	35.2	3.0	3.0	46.9	16 - #9	#3 at 12"	4	36	62	248	0	0	14 - #9	#3 at 6" Pch	0.0	
8	4	38.9	4.0	4.0	92.2	20 - #10	#3 at 12"	4	48	53	0	0	212	22 - #10	#3 at 6" Pch	0.0	
9	4	42.3	4.0	4.0	100.3	20 - #10	#3 at 12"	4	48	53	0	0	212	22 - #10	#3 at 6" Pch	0.0	
10	4	46.5	4.0	4.0	110.2	20 - #10	#3 at 12"	4	48	53	0	0	212	22 - #10	#3 at 6" Pch	0.0	
11	4	49.7	4.0	4.0	117.8	20 - #10	#3 at 12"	4	48	53	0	0	212	22 - #10	#3 at 6" Pch	0.0	
12	4	51.7	4.0	4.0	122.5	20 - #10	#3 at 12"	4	48	53	0	0	212	22 - #10	#3 at 6" Pch	0.0	
13	4	54.9	4.0	4.0	130.1	20 - #10	#3 at 12"	4	48	56	0	0	224	22 - #10	#3 at 6" Pch	0.0	
14	4	54.7	4.0	4.0	129.7	20 - #10	#3 at 12"	4	48	57	0	0	228	22 - #10	#3 at 6" Pch	0.0	
15	4	52.3	4.0	4.0	124.0	20 - #10	#3 at 12"	4	48	54	0	0	216	22 - #10	#3 at 6" Pch	0.0	
16	4	50.5	4.0	4.0	119.7	20 - #10	#3 at 12"	4	48	54	0	0	216	22 - #10	#3 at 6" Pch	0.0	
17	4	47.3	4.0	4.0	112.1	20 - #10	#3 at 12"	4	48	54	0	0	216	22 - #10	#3 at 6" Pch	0.0	
18	4	46.9	4.0	4.0	111.2	20 - #10	#3 at 12"	4	48	52	0	0	208	22 - #10	#3 at 6" Pch	0.0	
19	4	42.2	4.0	4.0	100.0	20 - #10	#3 at 12"	4	48	53	0	0	212	22 - #10	#3 at 6" Pch	0.0	
20	4	37.6	4.0	4.0	89.1	20 - #10	#3 at 12"	4	48	54	0	0	216	22 - #10	#3 at 6" Pch	0.0	
21	4	33.5	3.0	3.0	44.7	16 - #9	#3 at 12"	4	36	63	252	0	0	14 - #9	#3 at 6" Pch	0.0	
22	4	28.3	3.0	3.0	37.7	16 - #9	#3 at 12"	4	36	58	232	0	0	14 - #9	#3 at 6" Pch	0.0	
23	4	23.5	3.0	3.0	31.3	16 - #9	#3 at 12"	4	36	56	224	0	0	10 - #9	#3 at 6" Pch	0.0	
24	4	19.0	3.0	3.0	25.3	16 - #9	#3 at 12"	4	36	57	228	0	0	10 - #9	#3 at 6" Pch	0.0	
25	-	-	-	-	-	-	-	7	36	66	462	0	0	10 - #9	#3 at 6" Pch	74.7	
Total	-	-	-	-	1,803.6	-	-	-	-	-	3,186	0	2,796	-	-	167.3	



CROSS SECTION TYPICAL BENT

SCALE: NTS

INTERIM REVIEW ONLY

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BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

SH 130 FLYOVER
EST QTY'S

MCCARTHY

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

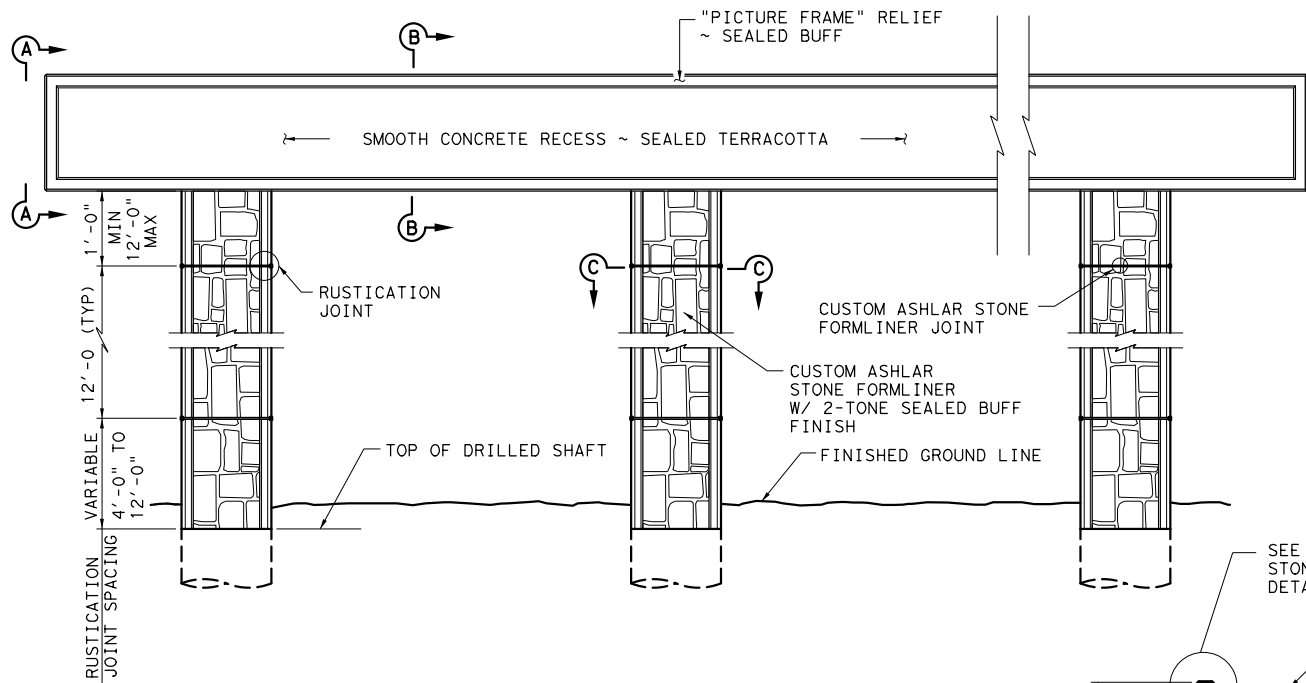
Texas Department of Transportation

SHEET 4 OF 5

FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			109
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71

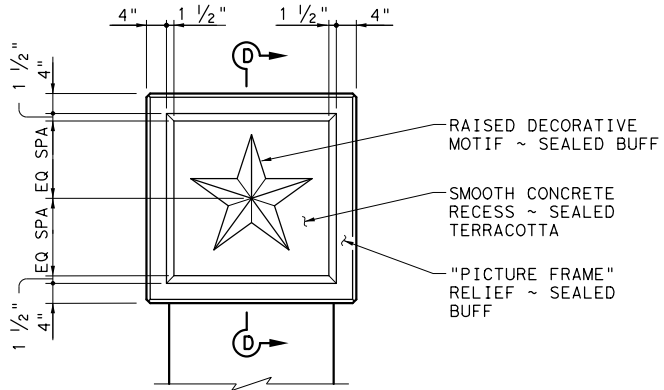
DESIGN LIFE CONSIDERATIONS:

NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.

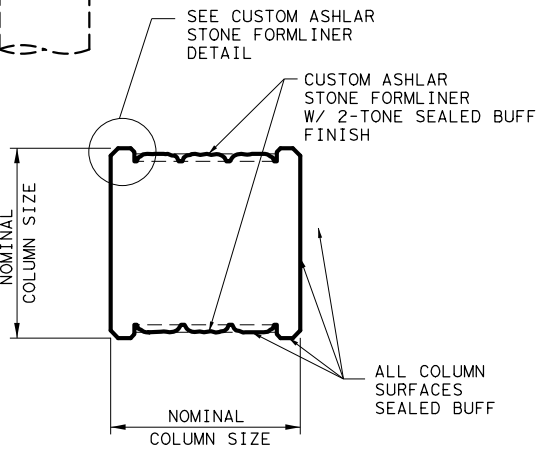
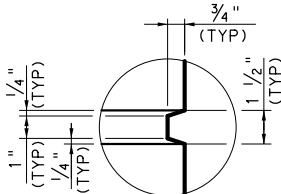
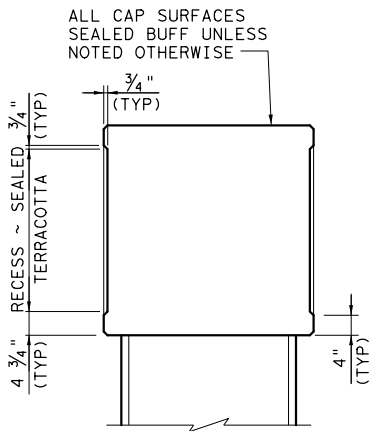
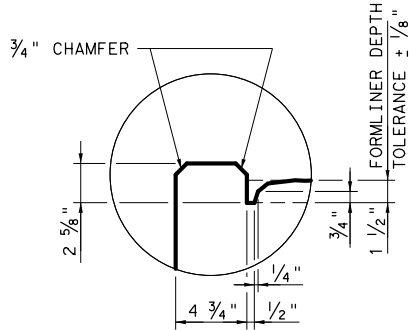
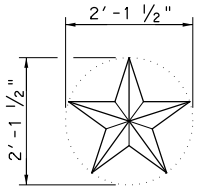


ELEVATION ~ RECTANGULAR COLUMNS

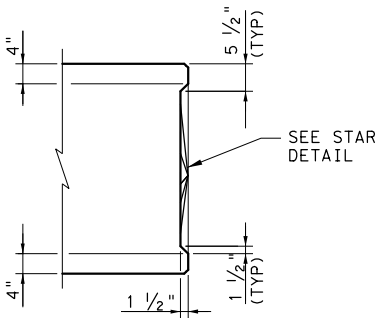
- GENERAL NOTES:
1. CHAMFER ALL EXPOSED CAP EDGES $\frac{3}{4}$ " UNLESS NOTED.
 2. THE TERRACOTTA SEALER SHALL CONFORM TO THE FEDERAL STANDARD COLOR I.D. NO. 30252.
 3. THE BUFF SEALER SHALL CONFORM TO FEDERAL STANDARD COLOR I.D. NO. 33711.
 4. SEALER SHALL NOT BE APPLIED TO THE BEARING SEATS.
 5. CLEAR COVER AT RUSTICATION JOINT SHALL BE A MINIMUM OF 2".
 6. RUSTICATION JOINT IS NOT REQUIRED WHEN COLUMN HEIGHT IS LESS THAN 12 FEET.



SECTION A-A
SHOWING ROUND COLUMN



SECTION C-C



SECTION D-D

INTERIM REVIEW ONLY
This document is released for
the purpose of interim review
under the authority of
Johnathan Abel Terrazas, P.E. 104821
on 5/16/2014
It is not to be used for permit,
bidding or construction purposes.

BRIDGE LIMITS AND SPAN TYPES
ARE PRELIMINARY AND SUBJECT
TO CHANGE DURING FINAL DESIGN.

SH 130 FLYOVER
AESTHETIC DETAILS



Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
TBPE Firm No. 2614

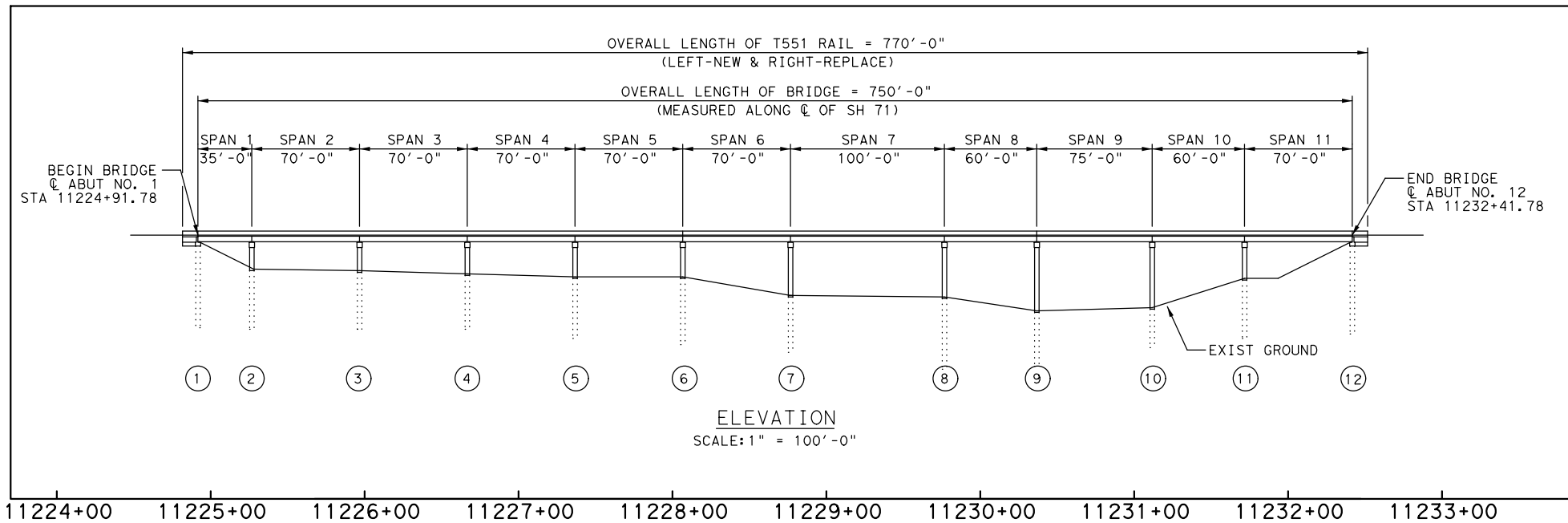
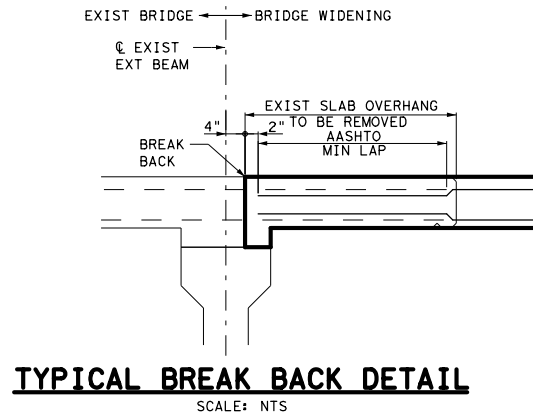
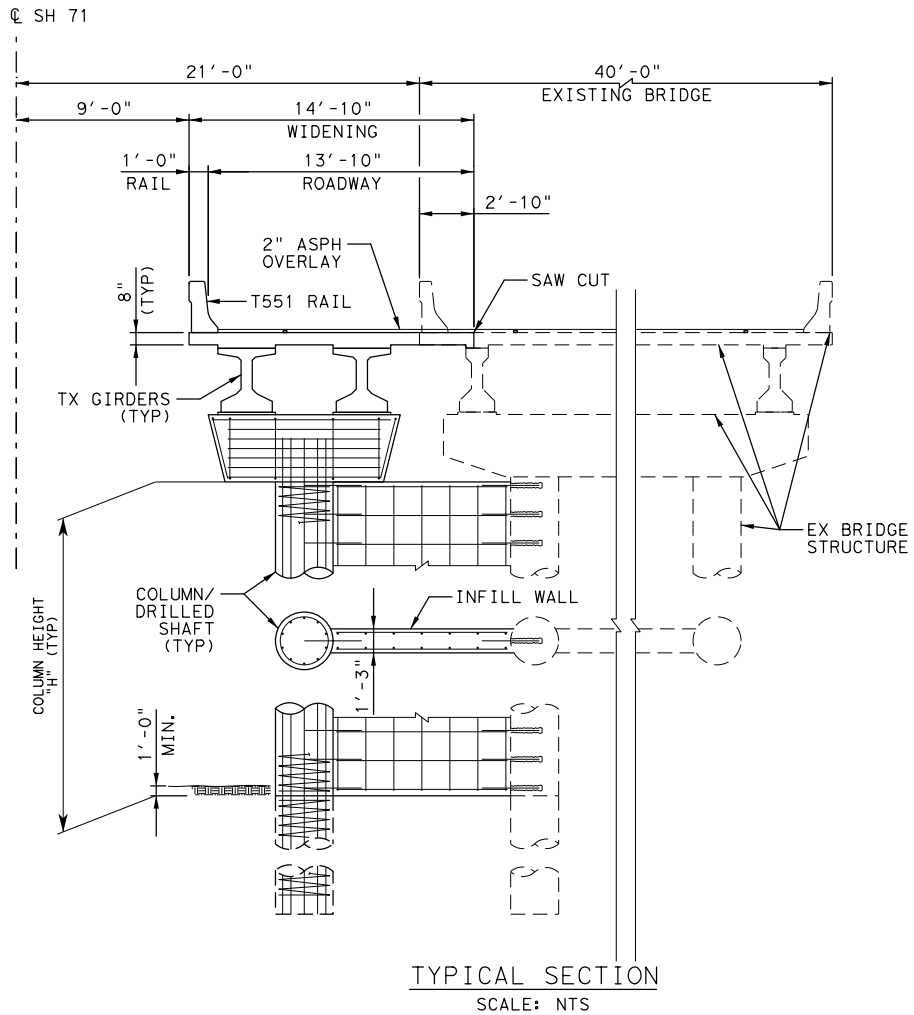
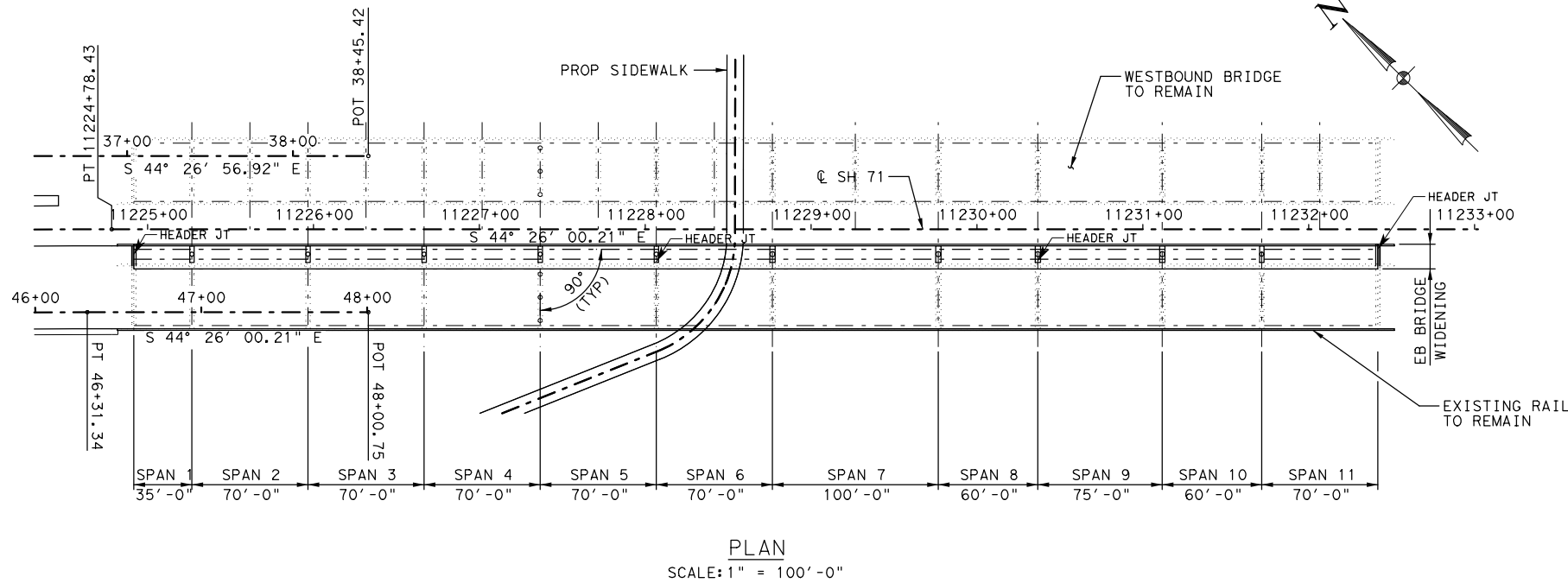
SCALE: 1"=100'

Texas Department of Transportation
SHEET 5 OF 5

DESIGN LIFE CONSIDERATIONS:

NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93
VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE
DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED
OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL,
TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL
PROVISION REQUIREMENTS.

FED. RD. DIV. NO.	STATE AID PROJECT	SHEET NO.
6		110
STATE	STATE DIST. NO.	COUNTY
TEXAS		TRAVIS
CONT.	SECT.	JOB
		SH 71



DESIGN LIFE CONSIDERATIONS:
NEW BRIDGE CONSTRUCTION DESIGNED FOR HL93 VEHICULAR LIVE LOAD UNDER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT WHERE DIRECTED OTHERWISE BY TxDOT LRFD BRIDGE DESIGN MANUAL, TxDOT GEOTECHNICAL MANUAL AND THE TECHNICAL PROVISION REQUIREMENTS.
BRIDGE LIMITS AND SPAN TYPES ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

PRELIMINARY
FOR REVIEW ONLY
Not for construction, bidding, or permit purposes.
Kimley-Horn and Associates, Inc.
Engineer: JONATHAN D. SEDDELMAYER
P.E. No. 91651 Date 5/16/2014

SH 71
BRIDGE LAYOUT

Kimley-Horn and Associates, Inc.
TEXAS REGISTERED ENGINEERING FIRM F-928

MCCARTHY

EB ONION CREEK WIDENING

Texas Department of Transportation

SHEET 1 OF 2			
FED. RD. DIV. NO.	STATE AID PROJECT		SHEET NO.
6			111
STATE	STATE DIST. NO.	COUNTY	
TEXAS		TRAVIS	
CONT.	SECT.	JOB	HIGHWAY NO.
			SH 71

Abut, Bent, or Span	Span Data								Bent Cap/Abutment Data							
	Avg Span Length	New Bridge Deck Width	Slab Deck Area	# Girders	Girder Type	Total Girder Length	Header Exp Joint	T551 Rail	Length	Depth	Width	Volume	Primary Rebar	Skin Rebar	Stirrups	Abut Rebar
-	FT	FT	SF	EA	-	FT		FT	FT	FT	FT	CY	-	-	-	#/CY
1	35.0	14.8	520	2	Tx40	69.0	50.00	45.0	13.00	2.50	2.75	8.2	-	-	-	220
2	70.0	14.8	1039	2	Tx40	139.0	-	70.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
3	70.0	14.8	1039	2	Tx40	139.0	-	70.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
4	70.0	14.8	1039	2	Tx40	139.0	-	70.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
5	70.0	14.8	1039	2	Tx40	139.0	-	70.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
6	70.0	14.8	1039	2	Tx40	139.0	50.00	70.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
7	100.0	14.8	1484	2	Tx40	199.0	-	100.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
8	60.0	14.8	890	2	Tx40	119.0	-	60.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
9	75.0	14.8	1113	2	Tx40	149.0	50.00	75.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
10	60.0	14.8	890	2	Tx40	119.0	-	60.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
11	70.0	14.8	1039	2	Tx40	139.0	-	80.0	10.00	3.50	3.50	4.2	10-#11	10-#5	#5 at 6"	-
12	-	-	-	-	-	-	50.00	-	13.00	2.50	2.75	8.3	10-#11	10-#5	#5 at 6"	220
Total	750.0	-	11131	22		1489.0	200.00	770.0	-	-	-	58.5	-	-	-	-

Abut, Bent, or Span	Column Data						Foundation Data									
	Dia. Of 1 - Column	Column Height	Vertical Rebar	Spiral Rebar	Infill Wall		# Drilled Shafts			Length of 1 - Dr Shaft	Length of Dr Shafts			Vertical Rebar	Spiral Rebar	Rip Rap
					Volume	Rebar	30"	36"	42"		30"	36"	42"			
-	IN	FT	-	-	CY	#/CY	EA	EA	EA	FT	-	-	-	-	-	CY
1	-	-	-	-	-	-	2	-	-	53	106	-	-	8 - #9	#3 at 6" Pitch	2.0
2	30	15	8 - #9	#3 at 6" Pitch	-	-	1	-	-	38	38	-	-	8 - #9	#3 at 6" Pitch	-
3	30	16	8 - #9	#3 at 6" Pitch	-	-	1	-	-	37	37	-	-	8 - #9	#3 at 6" Pitch	1.5
4	30	18	8 - #9	#3 at 6" Pitch	-	-	1	-	-	35	35	-	-	8 - #9	#3 at 6" Pitch	1.5
5	30	20	8 - #9	#3 at 6" Pitch	-	-	1	-	-	39	39	-	-	8 - #9	#3 at 6" Pitch	1.5
6	30	20	8 - #9	#3 at 6" Pitch	8.9	155	1	-	-	43	43	-	-	8 - #9	#3 at 6" Pitch	1.5
7	36	32	10 - #9	#3 at 6" Pitch	14.2	155	-	1	-	36	-	36	-	10 - #9	#3 at 6" Pitch	1.5
8	36	33	10 - #9	#3 at 6" Pitch	14.7	155	-	1	-	46	-	46	-	10 - #9	#3 at 6" Pitch	1.5
9	42	42	14 - #9	#3 at 6" Pitch	18.7	155	-	-	1	35	-	-	35	14 - #9	#3 at 6" Pitch	-
10	42	40	14 - #9	#3 at 6" Pitch	17.8	155	-	-	1	25	-	-	25	14 - #9	#3 at 6" Pitch	-
11	30	21	8 - #9	#3 at 6" Pitch	9.3	155	1	-	-	38	38	-	-	8 - #9	#3 at 6" Pitch	-
12	-	-	-	-	-	-	2	-	-	57	114	-	-	8 - #9	#3 at 6" Pitch	2.0
Total	-	-	-	-	83.6	-	10	2	-	-	450	82	60	-	-	13.0

NOTES:

1. COLUMN HEIGHT AND DRILLED SHAFTS LENGTH SHOWN PER AS-BUILTS OF EXISTING STRUCTURE.

Existing Bridge Rehabilitation Data						
Replace Bearing Pads	Clean & Blast Bearing Seats	Cap Debris Removal	Concrete Repair	Pin & Text Asph Conc Pav	Pav Jt Underseal	Asph Conc Overlay
EA	SF	LS	SF	SY	LF	CY
95	261.3			3014	304	232

PRELIMINARY

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Kimley-Horn
and Associates, Inc.

Engineer: JONATHAN D. SEDDELMAYER
P.E. No. 91651 Date 5/16/2014

SH 71

BRIDGE LAYOUT

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and Associates, Inc.

TEXAS REGISTERED ENGINEERING FIRM F-928

MCCARTHY

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EB ONION CREEK WIDENING

Texas Department of Transportation

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE AID PROJECT			SHEET NO.
6				112
STATE	STATE DIST. NO.	COUNTY		
TEXAS		TRAVIS		
CONT.	SECT.	JOB	HIGHWAY NO.	
			SH 71	

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