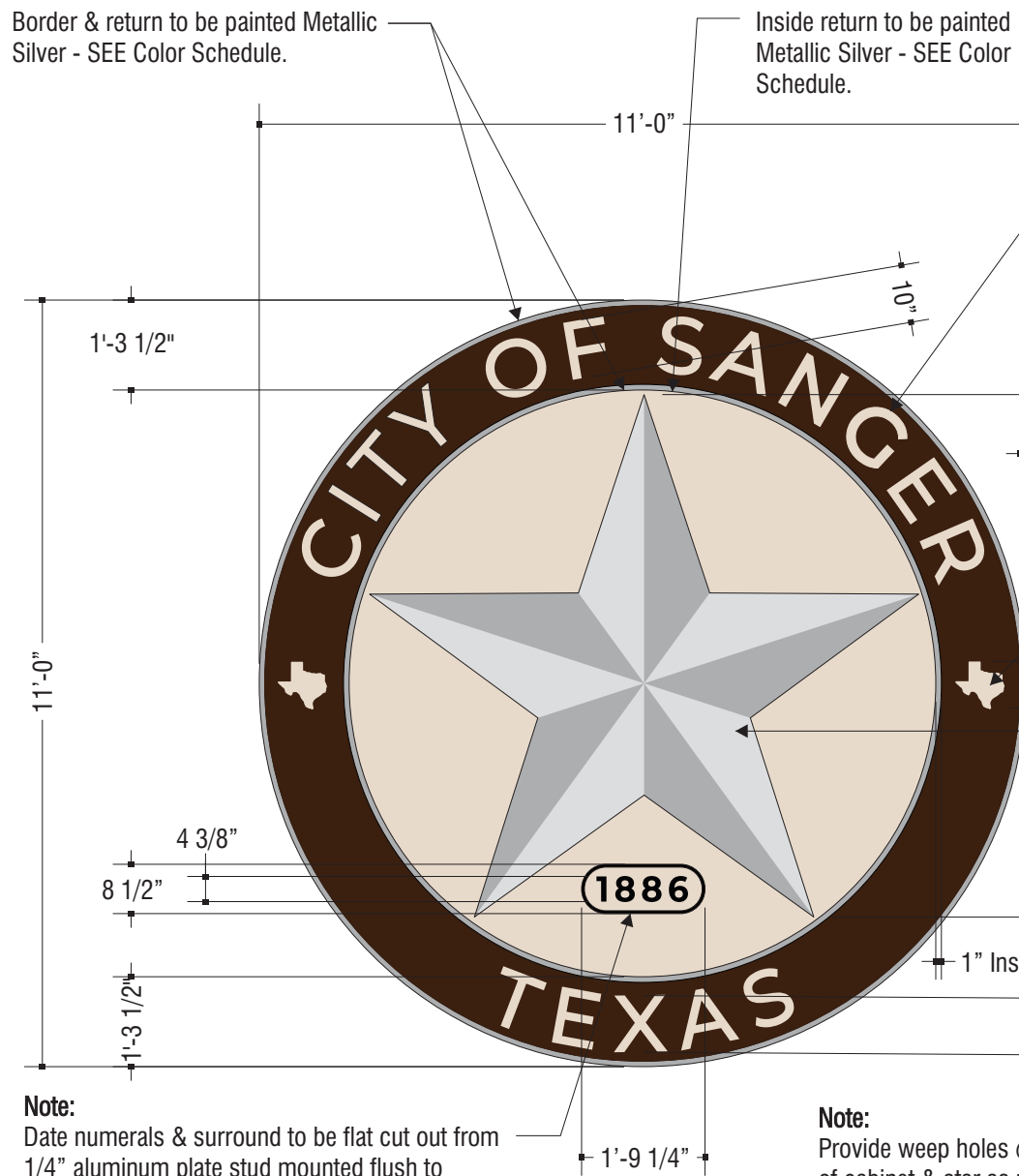


**SURVEY AND DRAWING
UPDATES REQUIRED**



Note:
Date numerals & surround to be flat cut out from 1/4" aluminum plate stud mounted flush to aluminum background. Both to have a painted Black Finish.

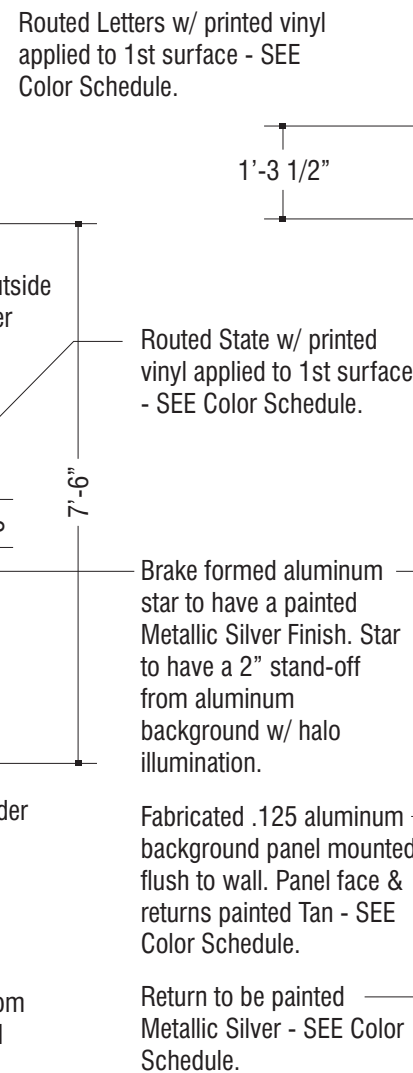
Note:
Provide weep holes @ bottom of cabinet & star as required

FACE LAYOUT - TEXAS STAR MADALLION CABINET

(2) Required Scale: 3/8" = 1'-0"

GENERAL SPECIFICATIONS:

Fabricated free form aluminum cabinet w/ halo lit back & star. Copy & states to be routed from an aluminum face & backed w/ White acrylic w/ printed vinyl applied to 1st surface - SEE Color Schedule. The star & copy surround to be mounted to a 2" deep background panel w/ a 2" stand-off, panel to be mounted flush to wall w/ mounting angles. Entire cabinet to have an painted finish matching the colors shown. Illumination to be provided by White LED's per manufacturing specifications. Cabinet to be mounted flush on a concrete retaining wall. Type of wall anchors will be determined by site conditions.



SIDE VIEW

Scale: 3/8" = 1'-0"

Color Schedule

Paint Specifications

- Border**
Dark Brown - Color to be determined
- Background Panel Face Behind Star**
Tan - Color to be determined

Vinyl Specifications

- Star & 1" Border**
Akzo Nobel 316 D4 Metallic Gold
- Date Numerals & Surround**
Match PMS 100% Black
- Routed Letter Faces & State 'Texas'**
Printed Tan Vinyl - Color to be determined

Routed Letters backed w/ 3/16" #2406 White acrylic

3/16" White #2447 polycarbonate back.

White LED Illumination

Routed .125 Aluminum face

Routed .125 Aluminum face of background panel

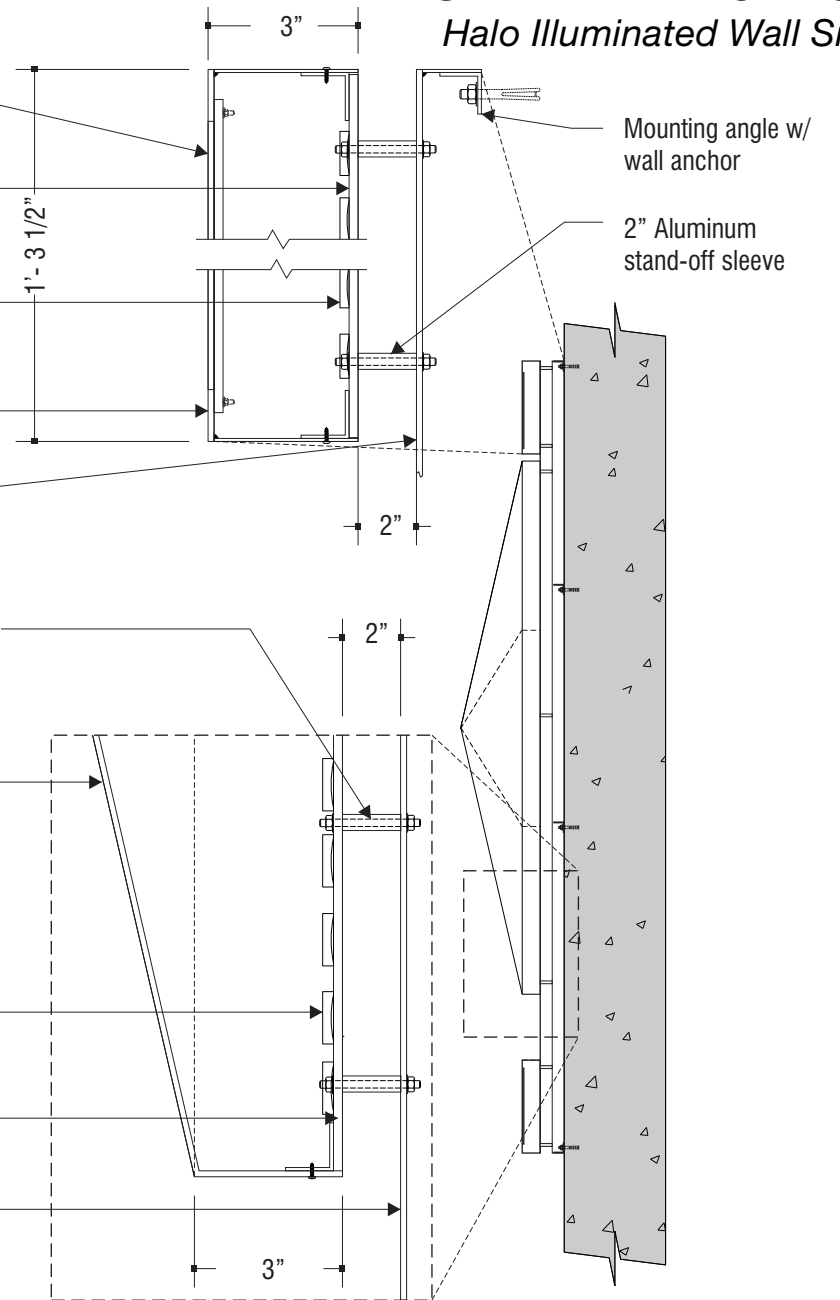
2" Stand-off sleeves to have a painted finish matching the background color.

Brake formed aluminum star to have a painted Metallic Silver Finish. Star to have a 2" stand-off from aluminum background panel.

White LED Illumination

3/16" White #2447 polycarbonate back.

Flat .125 Aluminum face of 2" deep background panel



SECTION VIEW

Scale: 3/8" = 1'-0"

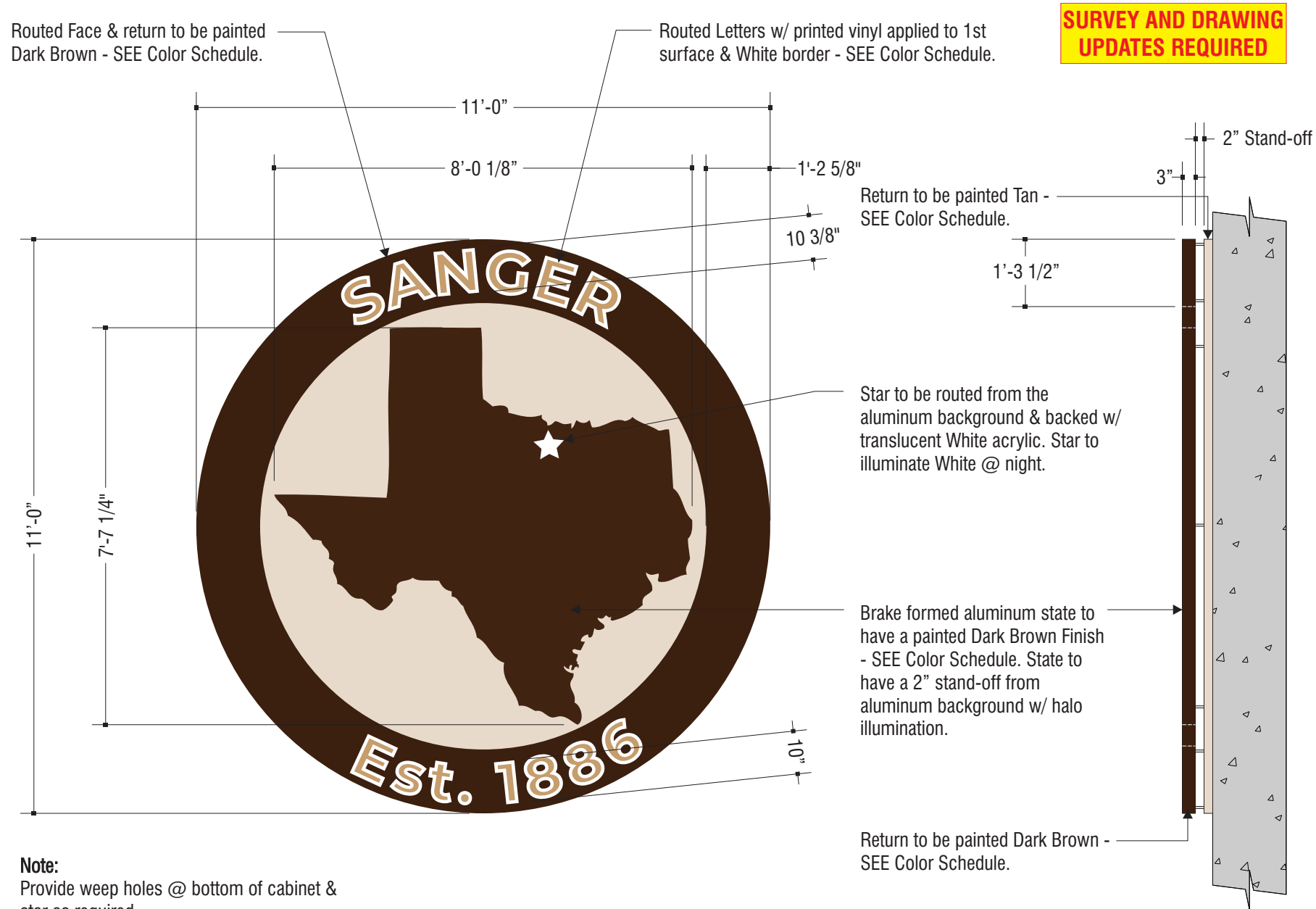
Note: UL labels must be visible at all times by UL standards and local city requirements.

REVISIONS:

- A -
- B -
- C -
- D -
- E -
- F -
- G -
- H -

INITIALS & DATE:

-
-
-
-
-
-
-
-



Note:
Provide weep holes @ bottom of cabinet & star as required

FACE LAYOUT - TEXAS STATE MEDALLION CABINET

(2) Required Scale: 3/8" = 1'-0"

GENERAL SPECIFICATIONS:

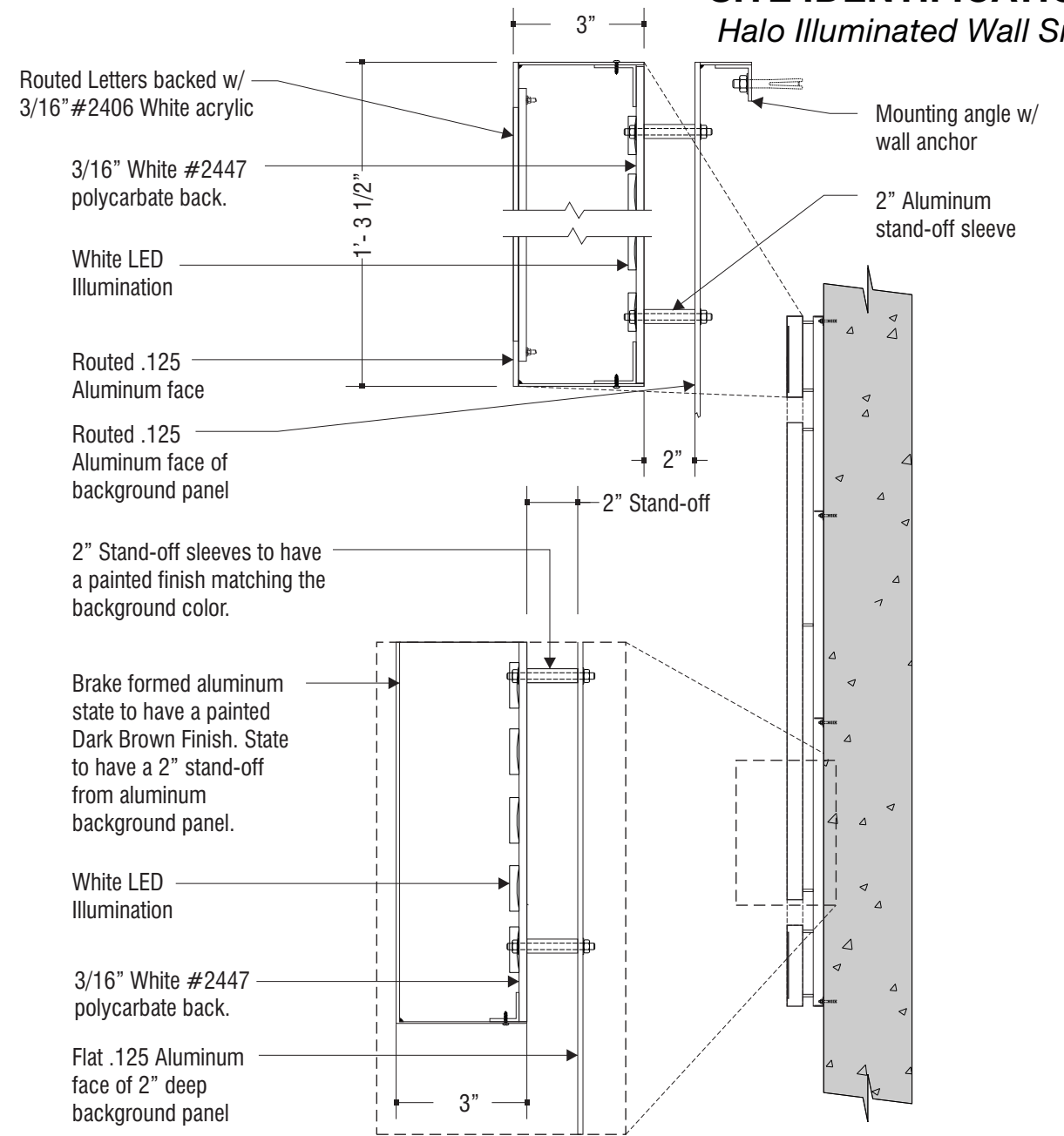
Fabricated free form aluminum cabinet w/ halo lit back & star. Copy & states to be routed from an aluminum face & backed w/ White acrylic w/ printed vinyl applied to 1st surface - SEE Color Schedule. The state & surround to be mounted to a 2" deep background panel w/ a 2" stand-off. Entire cabinet to have an painted finish matching the colors shown. Illumination to be provided by White LED's per manufacturing specifications. Cabinet to be mounted flush on a concrete retaining wall. Type of wall anchors will be determined by site conditions.

SIDE VIEW

Scale: 3/8" = 1'-0"

Color Schedule

Paint Specifications	Vinyl Specifications
Border & State 'Texas' Dark Brown - Color to be determined	Routed Letter Faces Printed Tan Vinyl - Color to be determined
Background Panel Face Behind State Tan - Color to be determined	



SECTION VIEW

Scale: 3/8" = 1'-0"

Note: UL labels must be visible at all times by UL standards and local city requirements.



ACCOUNT: City of Sanger
 LOCATION: 502 Elm Street - Sanger, TX
 ACCT. REP: M. Mele DESIGNER: MAK
 DATE: 4/11/23
 COMPANION FILES

REVISIONS:

A	-
B	-
C	-
D	-
E	-
F	-
G	-
H	-

INITIALS & DATE:

-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

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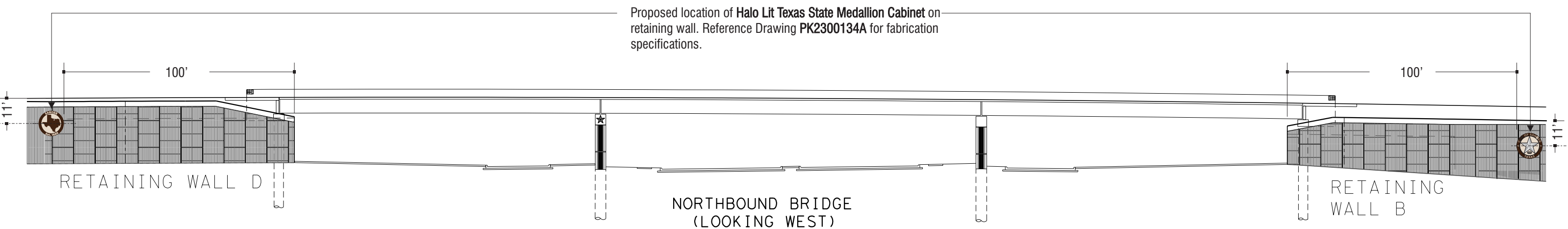
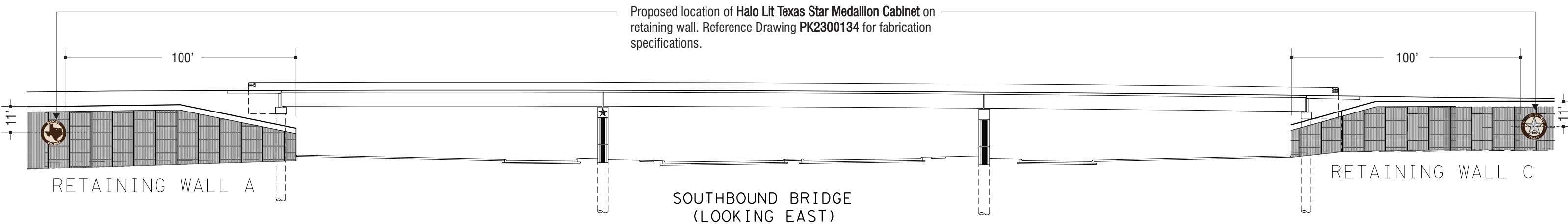
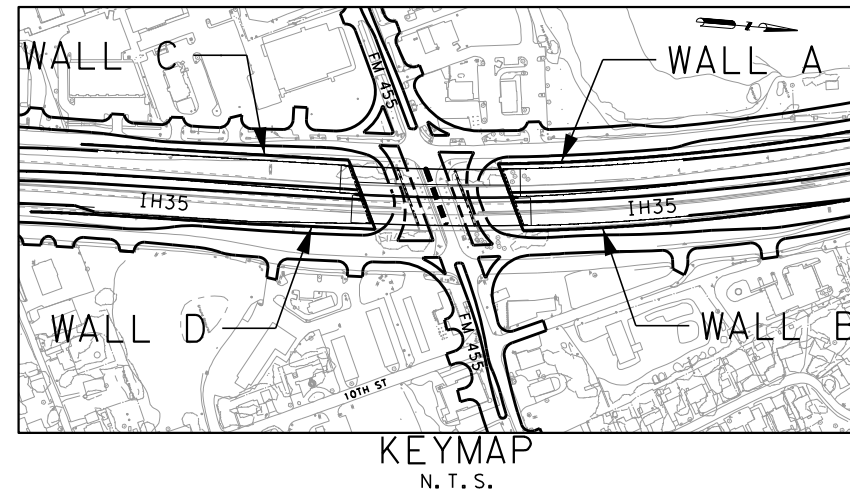
PK2300134A



TEXAS STAR MEDALLION CABINET - NIGHT VIEW



TEXAS STATE MEDALLION CABINET - NIGHT VIEW



RETAINING WALL ELEVATIONS

N. T. S.



ACCOUNT: City of Sanger
 LOCATION: 502 Elm Street - Sanger, TX
 ACCT. REP: M. Mele DESIGNER: MAK
 DATE: 4/11/23
 COMPANION FILES: _____



REVISIONS:

- A Revised placement of signs
- B Add dimensions
- C -
- D -
- E -
- F -
- G -
- H -

INITIALS & DATE:

MAK 4/24/23
 MAK 5/4/23

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PK2300134C

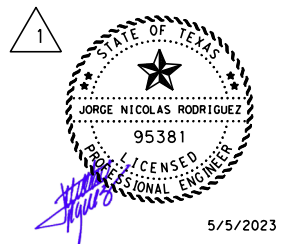
SUMMARY OF ILLUMINATION

LOCATION	610	618	618 *	618	618	620	620 *	620 *	620 *	624	628	RETAINING WALL MEDALLION
	6104	6016	6023	6047	6064	6003	6004	6007	6008	6002	6006	
	IN RD IL (U/P) (TY 1) (150W EQ) LED	CONDT (PVC) (SCH 40) (1")	CONDT (PVC) (SCH 40) (2")	CONDT (PVC) (SCH 80) (2") (BORE)	CONDT (RM) (1")	ELEC CONDR (NO. 12) BARE	ELEC CONDR (NO. 12) INSULATED	ELEC CONDR (NO. 8) BARE	ELEC CONDR (NO. 8) INSULATED	GROUND BOX TY A (122311) W/APRON	ELC SRV TY A 120/240 060 (NS) SS (E) GC (O)	
CSJ: 0195-02-076 FM 455 AT IH 35	EA 8	LF 0	LF 235	LF 165	LF 1,205	LF 1,205	LF 2,710	LF 400	LF 2,170	EA 4	EA 1	4
PROJECT TOTALS	8	0	235	165	1,205	1,205	2,710	400	2,170	4	1	4

*BID ITEMS SHOWN IN MULTIPLE SUMMARY BOXES



pw:\dannenbaum-pw-bentley.com\dannenbaum-pw-01\Documents\Transportation\4527-01\DN\PS&E\Genera\FM455-GEN_SUM_ILLL.dgn
 DATE: 5/5/2023 TIME: 10:15:54 AM USER: BUSER\$



DATE	BY	REV	REVISION
5/4/23	TF	1	ADD MEDALLIONS

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ENGINEERING EXCELLENCE T.B.P.E. FIRM REGISTRATION #8996



SUMMARY OF QUANTITIES

SHEET 30 OF 33

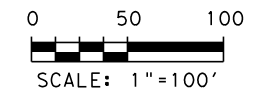
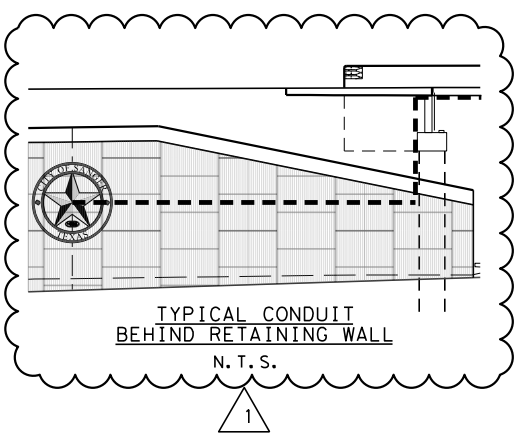
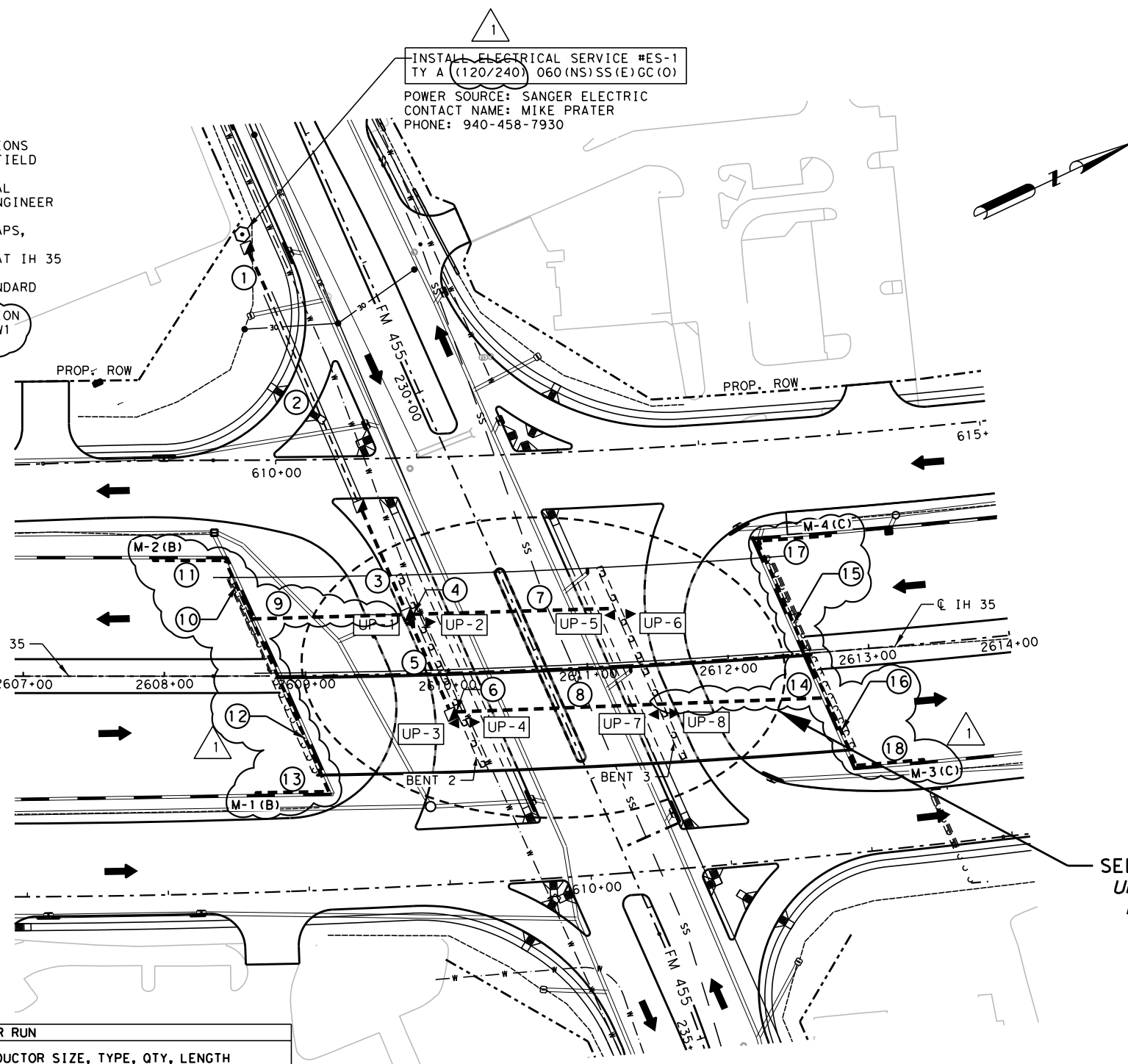
FED. DIV. NO.	PROJECT NO.	SHEET NO.	
6	(See Title Sheet)	54	
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

NOTES:

- CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES. ANY UTILITIES DAMAGED BY CONTRACTOR WILL BE REPAIRED AT NO COST TO TXDOT.
- PROPOSED CONDUIT AND ELECTRICAL EQUIPMENT LOCATIONS ARE SHOWN IN THE APPROXIMATE LOCATIONS AND MUST BE APPROVED BY THE ENGINEER IN THE FIELD BEFORE INSTALLATION.
- THE LOCATIONS OF LIGHT FIXTURES AND ELECTRICAL SERVICES CAN BE MARGINALLY ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
- INSTALL JUNCTION BOXES AS NEEDED ON BRIDGE CAPS, COLUMNS, ETC., SUBSIDIARY TO ITEM 618.
- SEE "ILLUMINATION UNDERPASS LIGHTING FM 455 AT IH 35 DETAILS" LAYOUT FOR OTHER DETAILS.
- SEE RID(3)-20 FOR UNDERPASS ILLUMINATION STANDARD DETAILS.
- FOR DECORATIVE MEDALLION ASSEMBLY SEE MEDALLION ANCHOR DETAILS SHEET AND MEDALLION AT WALL AW1 AND BW1.

LEGEND

- ◀ RDWY ILL ASSEM (U/P) (TY1) (150W EQ) LED
- GROUND BOX
- JUNCTION BOX
- ⊞ DISCONNECT SWITCH
- PROP. CONDUIT
- ==== PROP. CONDUIT (BORE)
- ⊕ RUN DESIGNATION
- ⊙ PROP. ELECTRICAL SERVICE
- UP-# UNDERPASS LUMINAIRE NO.
- ▶ TRAFFIC DIRECTION
- M-C(X) MEDALLION #(CIRCUIT)



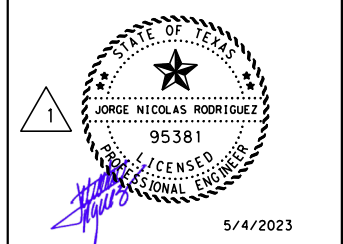
SEE "ILLUMINATION UNDERPASS LIGHTING FM 455 AT IH 35 DETAILS"

* - 20' ADDED FOR VERTICAL DROP

RUN NO.	CIRCUIT	CONDUIT (LF)				CONDUCTOR SIZE, TYPE, QTY, LENGTH									
		1" PVC SCH 40	2" PVC SCH 40	2" PVC SCH 80 (BORE)	1" RMC	#12 BARE		#12 INSUL		#8 BARE		#8 INSUL			
		QTY	LF	QTY	LF	QTY	LF	QTY	LF	QTY	LF	QTY	LF		
1	A, B, C		35	165					1	@	35	6	@	35	
2	A, B, C								1	@	165	6	@	165	
3	A, B, C		85						1	@	85	6	@	85	
4	A, B		20						1	@	20	4	@	20	
5	A, C		75						1	@	75	4	@	75	
6	A, C		20						1	@	20	4	@	20	
7	A				150	1	@	150	2	@	150				
8	A, C				150	1	@	150	4	@	150				
9	B				110	1	@	110	2	@	110				
10	B				50	1	@	50	2	@	50				
11	B				75	1	@	75	2	@	75				
12	B				140	1	@	140	2	@	140				
13	B				75	1	@	75	2	@	75				
14	C				125	1	@	125	2	@	125				
15	C				125	1	@	125	2	@	125				
16	C				55	1	@	55	2	@	55				
17	C				75	1	@	75	2	@	75				
18	C				75	1	@	75	2	@	75				
TOTALS		0	235	165	1205			1205			2710			400	2170

DESCRIPTION	LUMINAIRE ID	MOUNTING LOCATION
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-1	BENT 2
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-2	BENT 2
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-3	BENT 2
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-4	BENT 2
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-5	BENT 3
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-6	BENT 3
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-7	BENT 3
IN RD IL (U/P) (TY 1) (150W EQ) LED	UP-8	BENT 3
DECORATIVE MEDALLION ASSM	M-1	R. Wall
DECORATIVE MEDALLION ASSM	M-2	R. Wall
DECORATIVE MEDALLION ASSM	M-3	R. Wall
DECORATIVE MEDALLION ASSM	M-4	R. Wall

ITEM	CODE	DESCRIPTION	UNIT	QTY
610	6104	IN RD IL (U/P) (TY 1) (150W EQ) LED	EA	8
618	6016	CONDT (PVC) (SCH 40) (1")	LF	0
618	6023	CONDT (PVC) (SCH 40) (2")	LF	235
618	6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF	165
618	6064	CONDT (RM) (1")	LF	1,205
620	6003	ELEC CONDR (NO.12) BARE	LF	1,205
620	6004	ELEC CONDR (NO.12) INSULATED	LF	2,710
620	6007	ELEC CONDR (NO.8) BARE	LF	400
620	6008	ELEC CONDR (NO.8) INSULATED	LF	2,170
624	6002	GROUND BOX TY A (122311)W/APRON	EA	4
628	6006	ELC SRV TY A 120/240 060(NS)SS(E)GC(O)	EA	1
		DECORATIVE MEDALLION ASSEMBLY	EA	4



DATE	BY	REV	REVISION
5/4/23	TF	1	ADD MEDALLIONS

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ILLUMINATION UNDERPASS LIGHTING FM 455 AT IH 35

SHEET 1 OF 1

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	(See Title Sheet)	1140

STATE	STATE DIST. NO.	COUNTY
TEXAS	18	DENTON

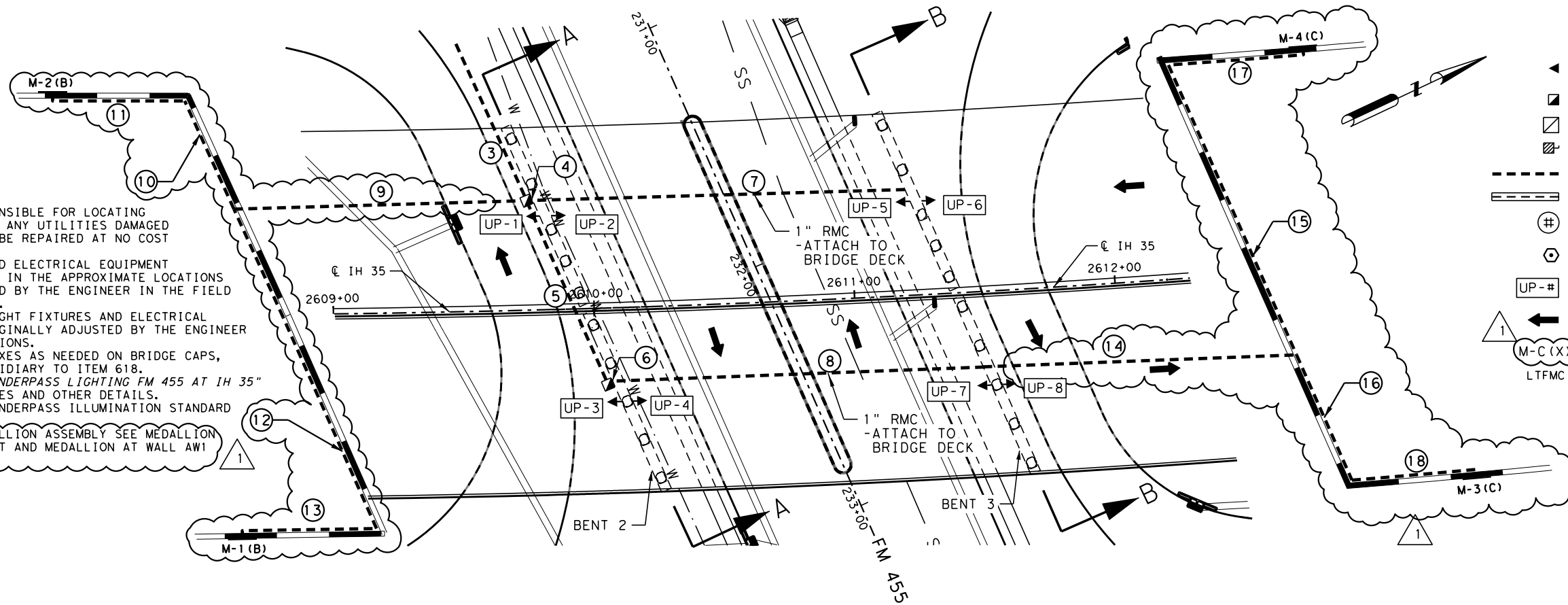
CON.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

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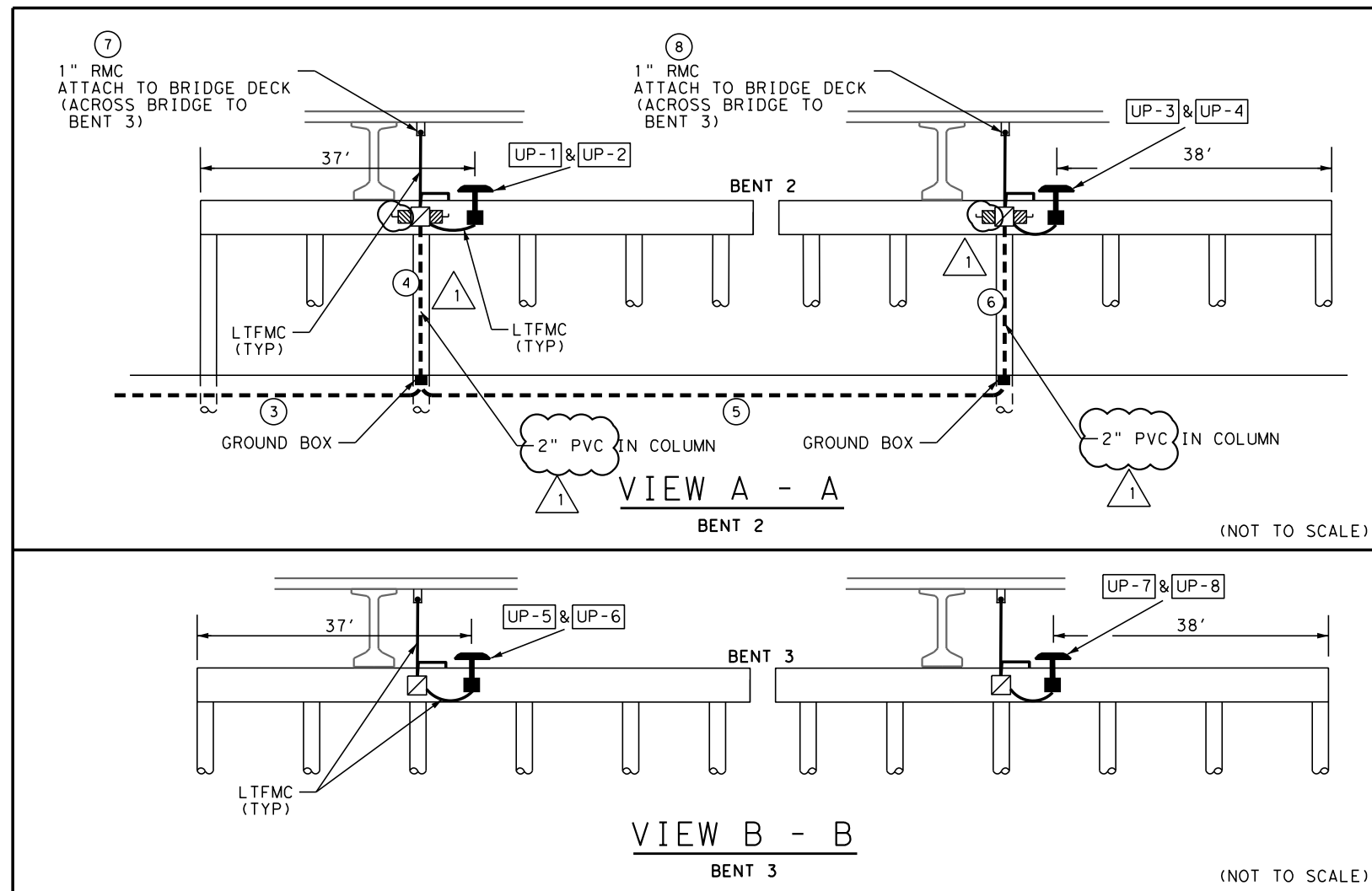
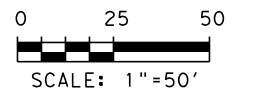
NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES. ANY UTILITIES DAMAGED BY CONTRACTOR WILL BE REPAIRED AT NO COST TO TXDOT.
2. PROPOSED CONDUIT AND ELECTRICAL EQUIPMENT LOCATIONS ARE SHOWN IN THE APPROXIMATE LOCATIONS AND MUST BE APPROVED BY THE ENGINEER IN THE FIELD BEFORE INSTALLATION.
3. THE LOCATIONS OF LIGHT FIXTURES AND ELECTRICAL SERVICES CAN BE MARGINALLY ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
4. INSTALL JUNCTION BOXES AS NEEDED ON BRIDGE CAPS, COLUMNS, ETC., SUBSIDIARY TO ITEM 618.
5. SEE "ILLUMINATION UNDERPASS LIGHTING FM 455 AT IH 35" LAYOUT FOR QUANTITIES AND OTHER DETAILS.
6. SEE RID(3)-20 FOR UNDERPASS ILLUMINATION STANDARD DETAILS.
7. FOR DECORATIVE MEDALLION ASSEMBLY SEE MEDALLION ANCHOR DETAILS SHEET AND MEDALLION AT WALL AWI AND BW1.



LEGEND

- ◄ RDWY ILL ASSEM (U/P) (TY1) (150W EQ)LED
- GROUND BOX
- JUNCTION BOX
- ⊞ DISCONNECT SWITCH
- PROP. CONDUIT
- ==== PROP. CONDUIT (BORE)
- ⊕ RUN DESIGNATION
- ⊙ PROP. ELECTRICAL SERVICE
- UP-# UNDERPASS LUMINAIRE NO.
- ▲ TRAFFIC DIRECTION
- M-C(X) MEDALLION #(CIRCUIT)
- LTFCM LIQUID TIGHT FLEXIBLE METAL CONDUIT



5/4/2023

DATE	BY	REV	REVISION
5/4/23	TF	1	ADD MEDALLIONS

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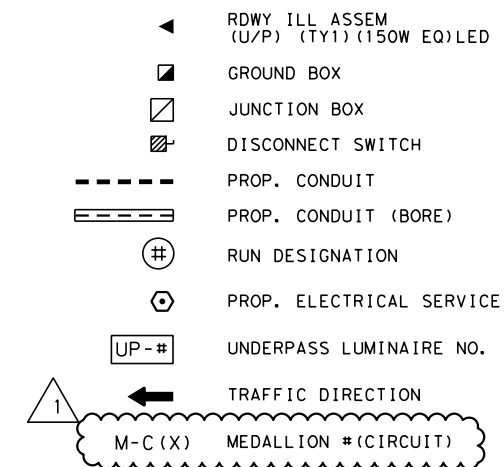
ILLUMINATION
 UNDERPASS LIGHTING
 FM 455 AT IH 35
 DETAILS

SHEET 1 OF 1

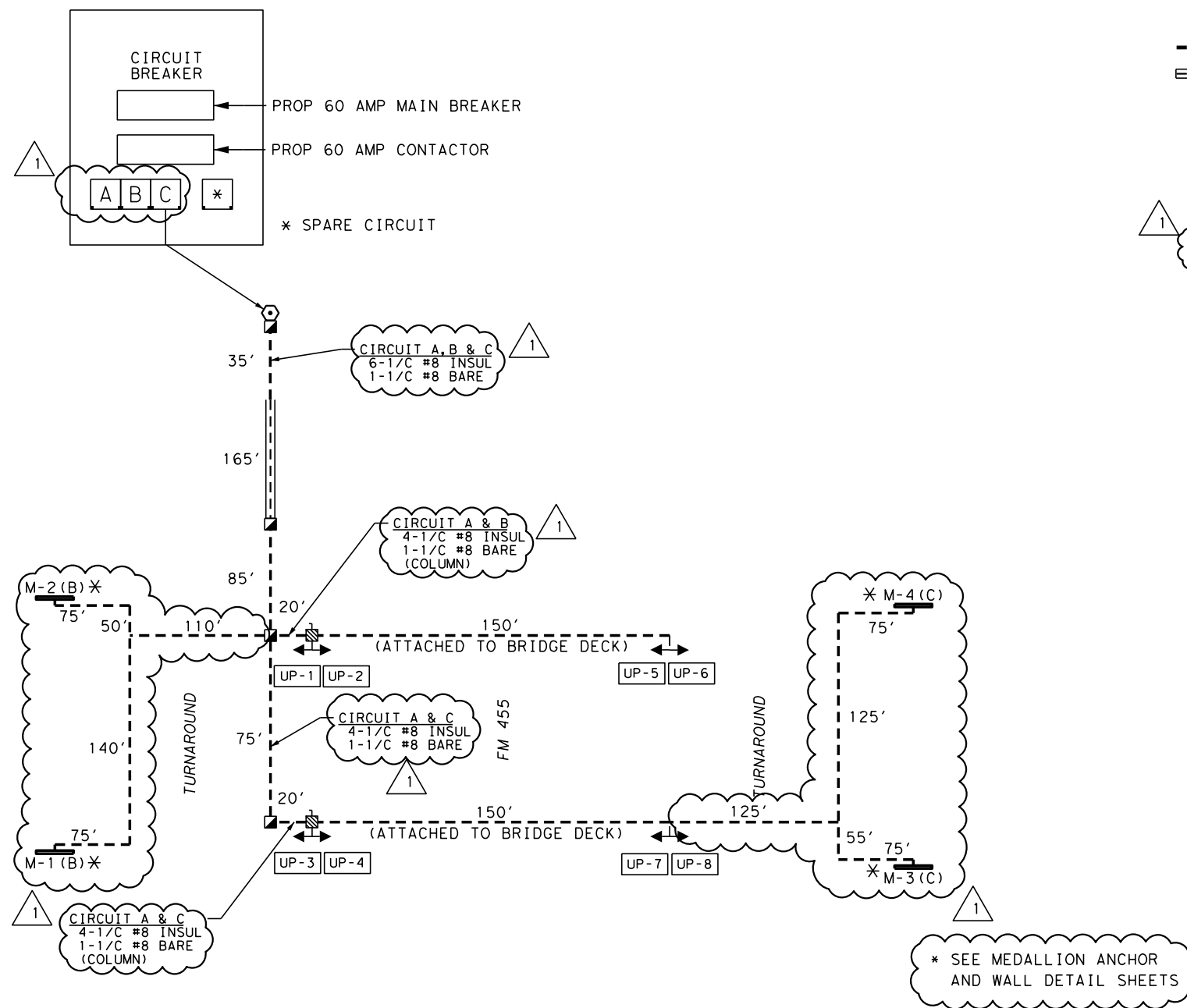
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6	(See Title Sheet)	1141	
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

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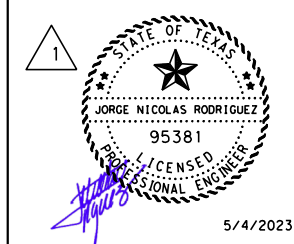
LEGEND



PROPOSED ILLUMINATION ELECTRICAL SERVICE NO ES-1 (TYPE A) 240/480



(NOT TO SCALE)



DATE	BY	REV	REVISION
5/4/23	TF	1	ADD MEDALLIONS

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ILLUMINATION UNDERPASS LIGHTING FM 455 AT IH 35 CIRCUIT DIAGRAM & ELECT SVC DATA

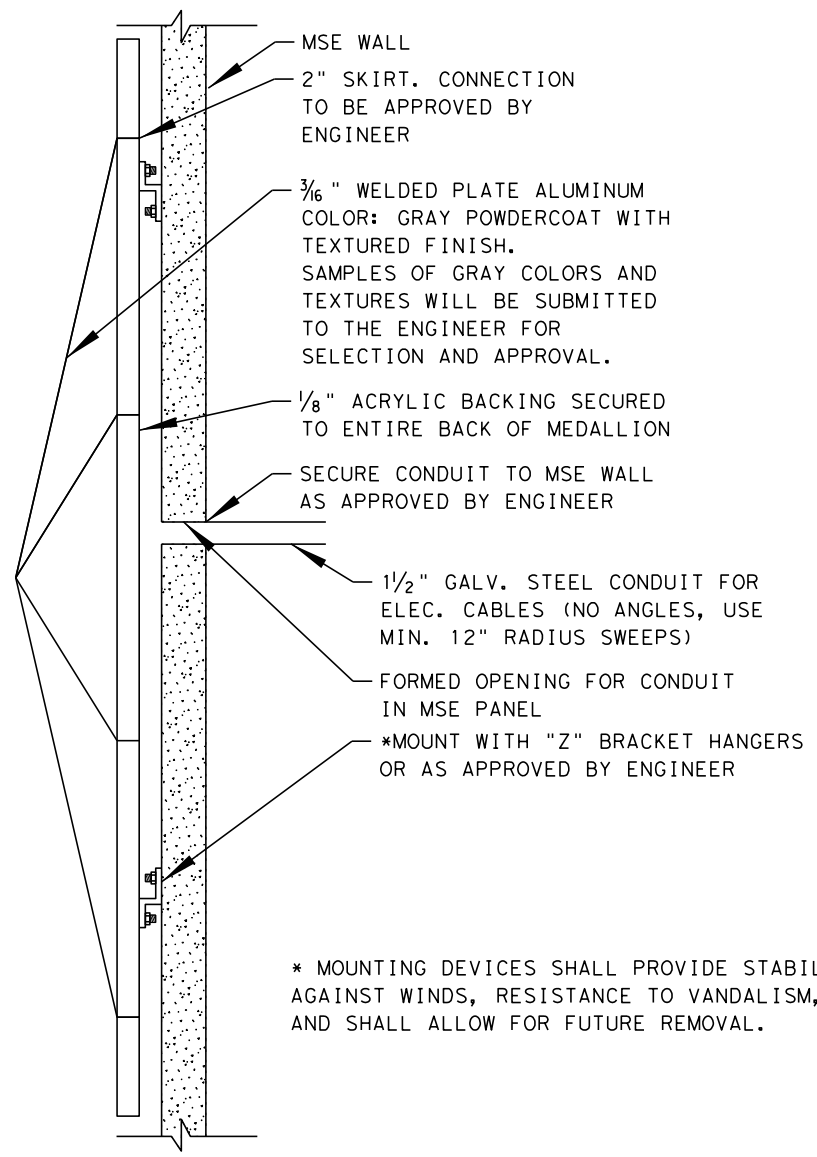
ELECTRICAL SERVICE DATA											
ELEC. SERVICE NO.	ELECTRICAL SERVICE DESCRIPTION SEE ED (5) -14	SERVICE CONDUIT SIZE *	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH (AMPS)	MAIN CKT. BKR. POLE/AMP	TWO-POLE CONTACTOR (AMPS)	PANEL BD/LOAD CENTER AMP RATING	BRANCH CIRCUIT	BRANCH CKT. BKR. POLE/AMPS	BRANCH CIRCUIT (AMPS)	KVA LOAD
ES-1	ELC SRV TY A 120/240 060 (NS)SS (E) GC (O)	2"	3#6	N/A	2P/60	60	N/A	A	2P/20	3.5	< 7.1
								B	1P/20	3.0	
								C	1P/20	3.0	

* VERIFY SERVICE CONDUIT SIZE WITH UTILITY. SIZE MAY CHANGE DUE TO UTILITY METER REQUIREMENTS. ENSURE CONDUIT SIZE MEETS THE NATIONAL ELECTRICAL CODE.

SHEET 1 OF 1

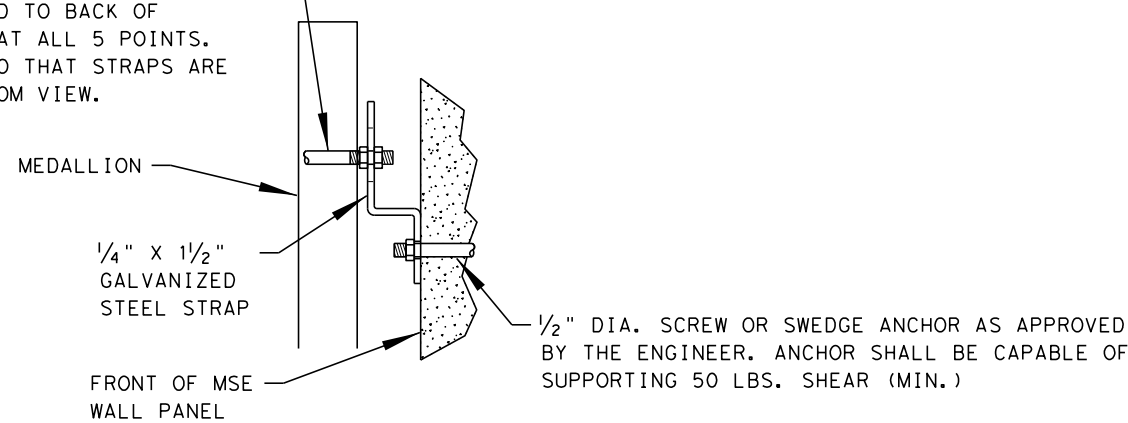
FED. DIV. NO.	PROJECT NO.	SHEET NO.	
6	(See Title Sheet)	1142	
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

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TEXAS STAR MEDALLION ON WALL
ELEVATION NTS

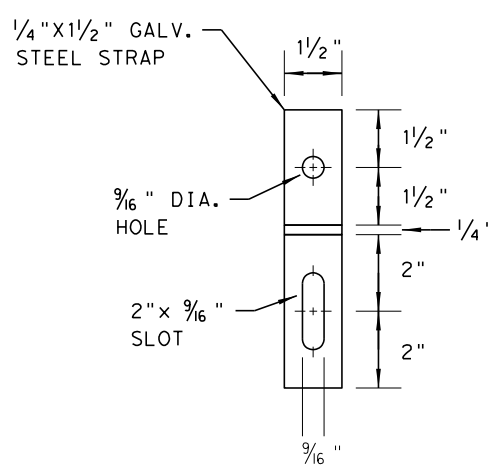
1/2" THREADED STUDS SHALL BE GALVANIZED OR STAINLESS STEEL AND WELDED TO BACK OF MEDALLION AT ALL 5 POINTS. ARRANGE SO THAT STRAPS ARE HIDDEN FROM VIEW.



MOUNTING HANGER
SECTION NTS



TEXAS STAR MEDALLION
ELEVATION NTS



MOUNTING ANCHOR
ELEVATION NTS

WALL GENERAL NOTES

1. DIMENSIONS FOR ARRANGEMENT OF AESTHETIC ELEMENTS SHALL BE INCLUDED IN SHOP DRAWINGS PROVIDED BY THE CONTRACTOR AND SUBMITTED TO ENGINEER FOR APPROVAL, PRIOR TO FABRICATION OR MANUFACTURING.
 2. BACKFILL PARTICLES LARGER THAN 1/4" SHALL BE ANGULAR OR CRUSHED. ROUNDED ROCK OR GRAVEL WILL NOT BE ALLOWED.
 3. CITY MEDALLION SHALL BE PAINTED WITH SOLVENT-BASED SEALER (SHERMAN WILLIAMS H&C SILICONE ACRYLIC SEALER OR APPROVED EQUAL - EPA APPROVED).
 4. COLOR SHALL BE GRAY. SUBMIT COLOR SAMPLE(S) TO ENGINEER FOR APPROVAL PRIOR TO PAINTING.
 5. SEALER APPLICATION SHALL FOLLOW SPECIFICATIONS FOR ITEM 427-"SURFACE FINISHES FOR CONCRETE". CLASS B, TYPE 1, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
 6. CITY MEDALLION AREA SHALL BE BLAST CLEANED PRIOR TO SEALER APPLICATION.
 7. DO NOT ALLOW SEALER TO EXTEND BEYOND EDGE OF CITY MEDALLION.
- ANY PAINT ON SURFACES OUTSIDE OF CITY MEDALLION SHALL BE REMOVED BY THE CONTRACTOR.

Daniel W. Everett, P.E.
2/23/2023

DATE	BY	REV	REVISION

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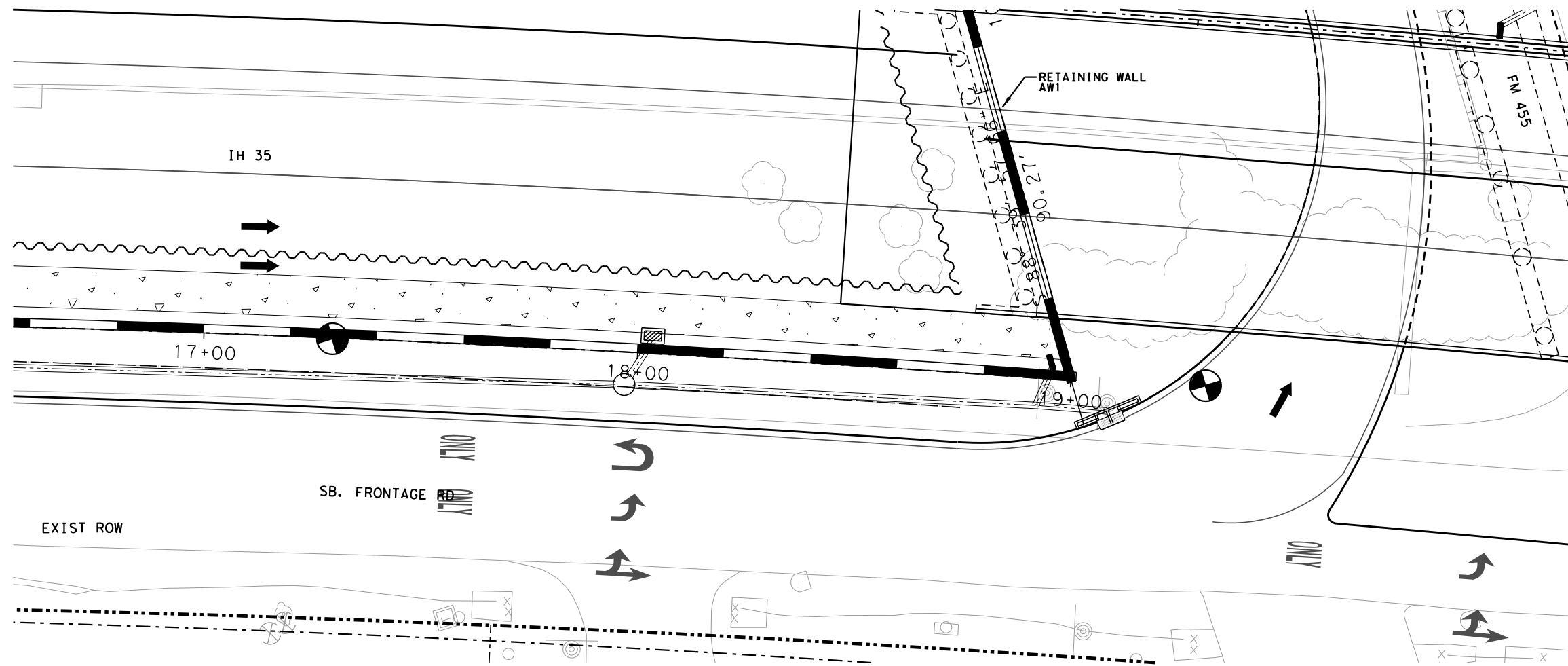
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MEDALLION ANCHOR DETAILS

SHEET 1 OF 1

DR: EBD	CR: JG	DB: EBD	CD: DW
FED. NO.	PROJECT NO.		SHEET NO.
6	(See Title Sheet)		573B
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	TH 35, ETC

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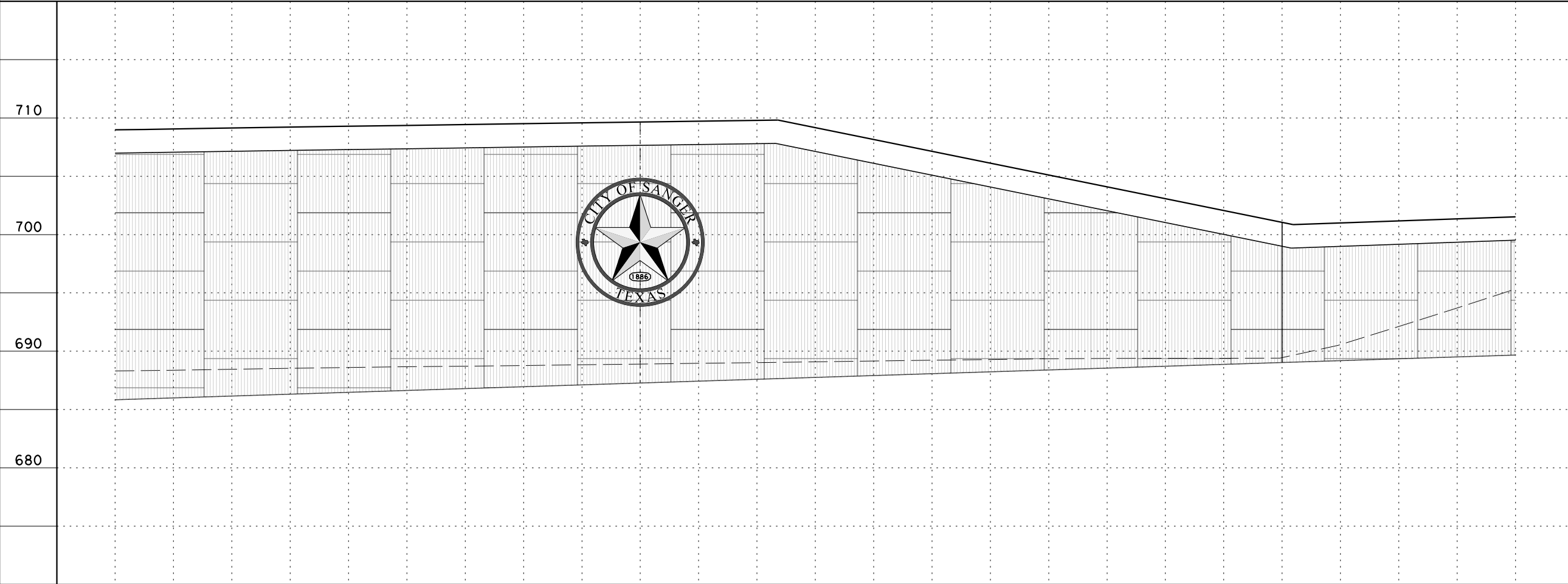
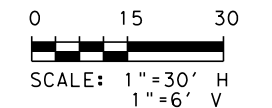


LEGEND

- PROP RETAINING WALL
- TEMP. SHORING
- CORING/BOREHOLE
- PROP STORM PIPE
- PROP MANHOLE
- PROP INLETS
- PROP RIPRAP

NOTES:

1. SEE TYPICAL SECTION & DETAILS SHEET FOR GENERAL NOTES, TYPICAL SECTION, DETAILS, AND QUANTITIES.
2. SEE CORE BORING SHEETS FOR SOIL CORE DATA.
3. SEE RETAINING WALL PLAN AND PROFILE, SHEETS FOR RETAINING WALL DETAILS. THESE SHEETS.
4. REFER TO SOIL GROUNDWATER MANAGEMENT PLAN FOR HANDLING OF CONTAMINATED SOIL & GROUNDWATER.



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MEDALLION AT WALL AW1

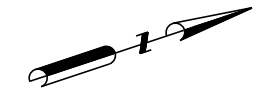
SHEET 1 OF 1

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FED. NO.	PROJECT NO.		SHEET NO.
6	(See Title Sheet)		1
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

18+00

19+00

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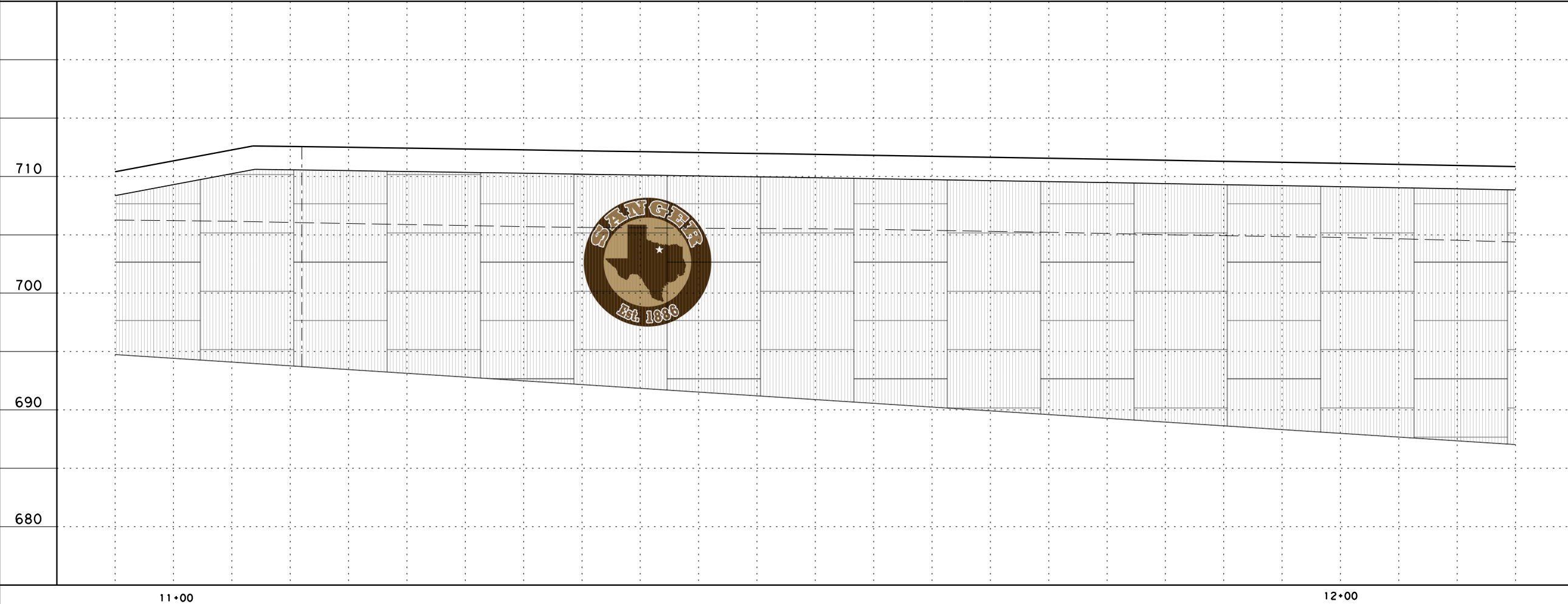
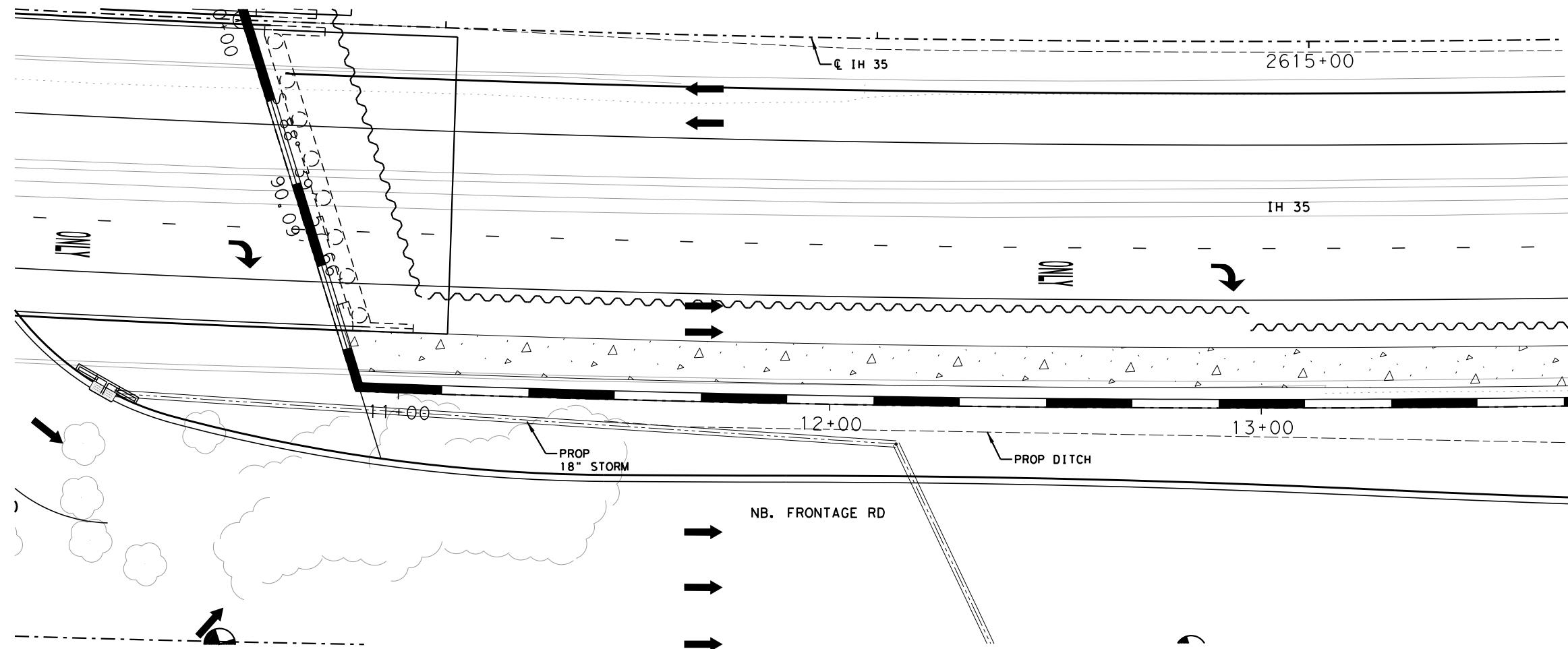
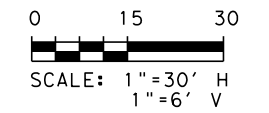


LEGEND

- PROP RETAINING WALL
- TEMP. SHORING
- CORING/BOREHOLE
- PROP STORM PIPE
- PROP MANHOLE
- PROP INLETS
- PROP RIPRAP

NOTES:

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2. SEE CORE BORING SHEETS FOR SOIL CORE DATA.
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4. REFER TO SOIL GROUNDWATER MANAGEMENT PLAN FOR HANDLING OF CONTAMINATED SOIL & GROUNDWATER.



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MEDALLION AT WALL BW1

SHEET 2 OF 4

DN: EBD	CK: JG	DB: EBD	CR: DWE
FED. NO.	PROJECT NO.		SHEET NO.
6	(See Title Sheet)		1
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

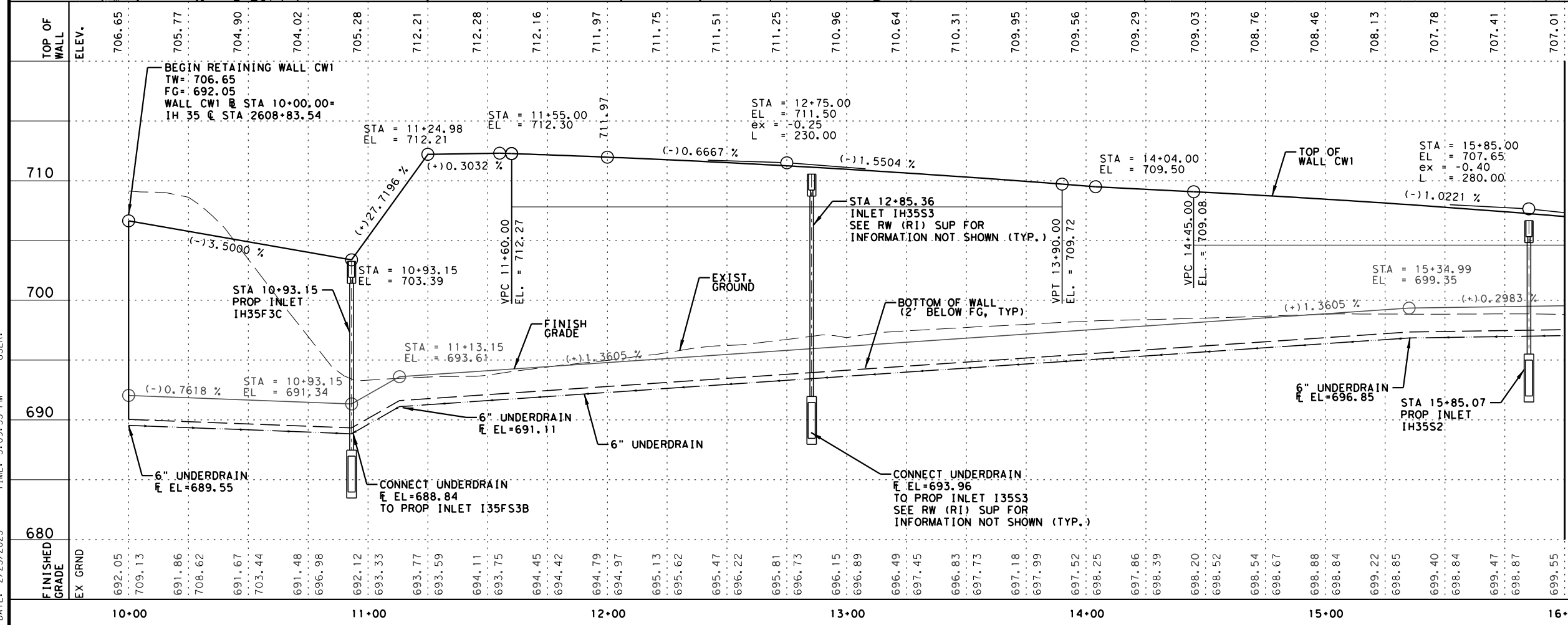
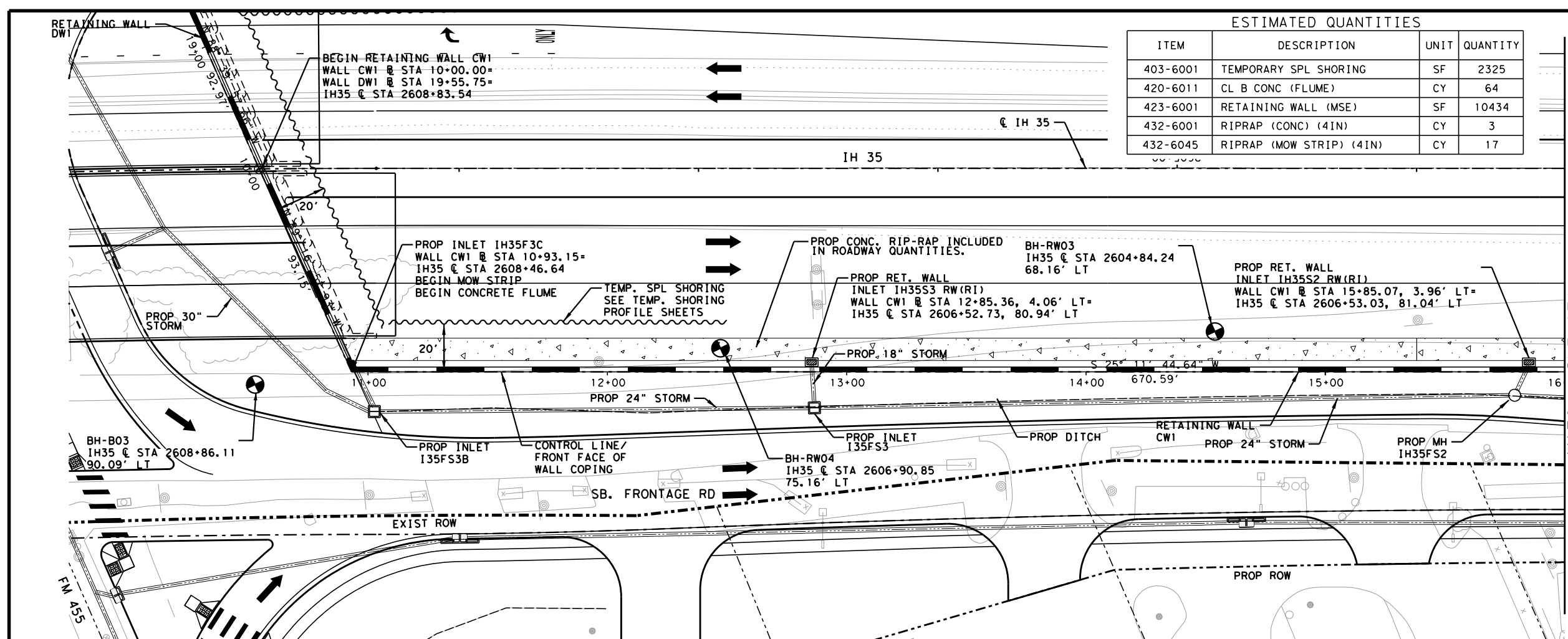
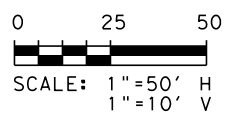
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 USER: TIME: 3:09:55 PM DATE: 2/23/2023

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-6001	TEMPORARY SPL SHORING	SF	2325
420-6011	CL B CONC (FLUME)	CY	64
423-6001	RETAINING WALL (MSE)	SF	10434
432-6001	RIPRAP (CONC) (4IN)	CY	3
432-6045	RIPRAP (MOW STRIP) (4IN)	CY	17

LEGEND

- PROP RETAINING WALL
- TEMP. SHORING
- CORING/BOREHOLE
- PROP STORM PIPE
- PROP MANHOLE
- PROP INLETS
- PROP RIPRAP

- NOTES:**
- SEE TYPICAL SECTION & DETAILS SHEET FOR GENERAL NOTES, TYPICAL SECTION, DETAILS, AND QUANTITIES.
 - SEE CORE BORING SHEETS FOR SOIL CORE DATA.
 - SEE TxDOT STANDARD SHEETS RW(MSE), RW(RI), RW(RI) SUP, RW(MSE) DD, AND RW(EM) FOR INFORMATION NOT SHOWN ON THESE SHEETS.
 - FOR RETAINING WALL FINISH AND COLOR REFER TO GENERAL NOTES UNDER ITEM 423 AND ITEM 427.
 - REFER TO SOIL GROUNDWATER MANAGEMENT PLAN FOR HANDLING OF CONTAMINATED SOIL & GROUNDWATER.



Dan W. Everett, P.E.
2/23/2023

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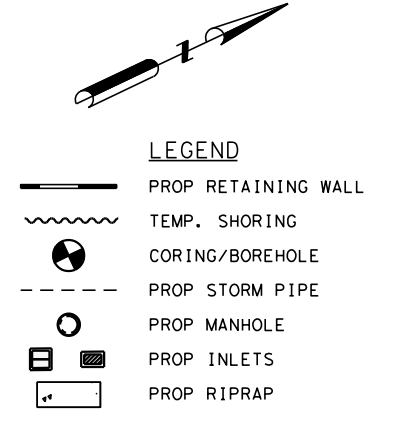
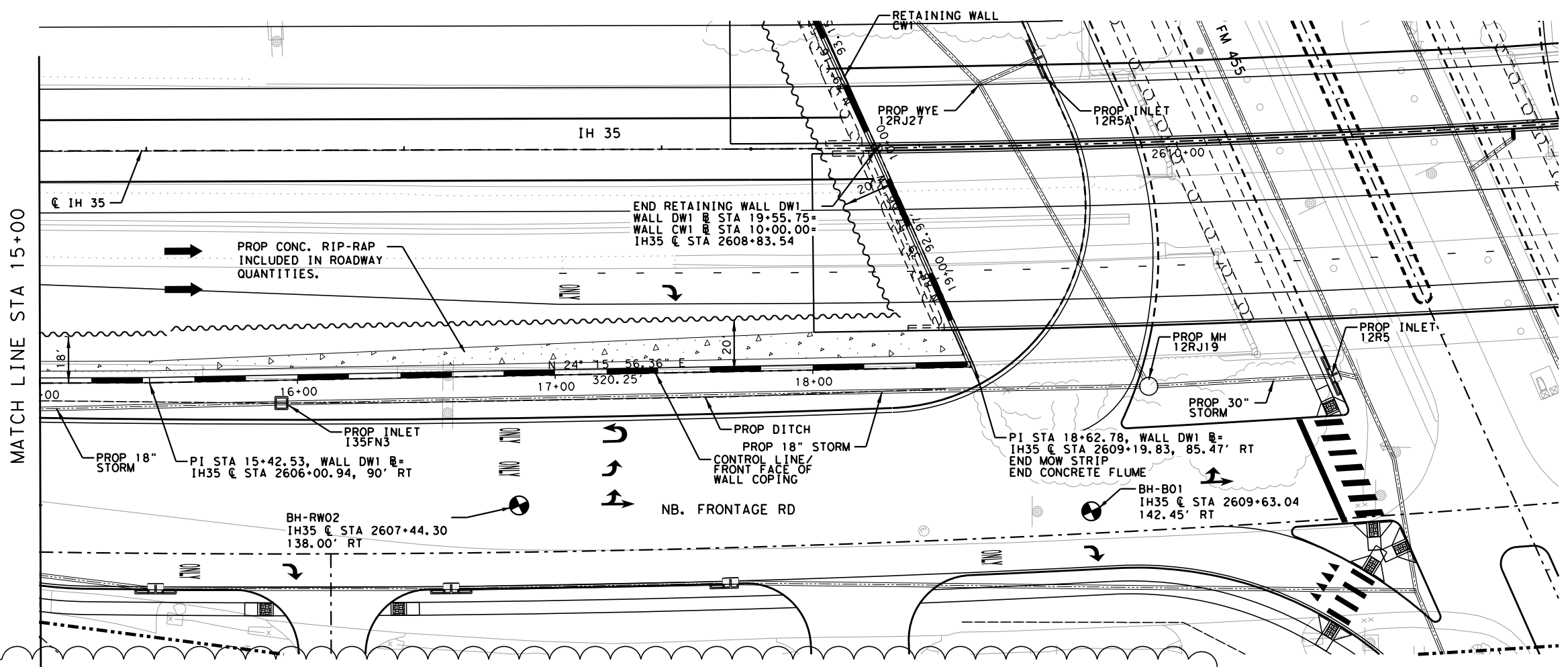
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RETAINING WALL LAYOUT WALL CW1

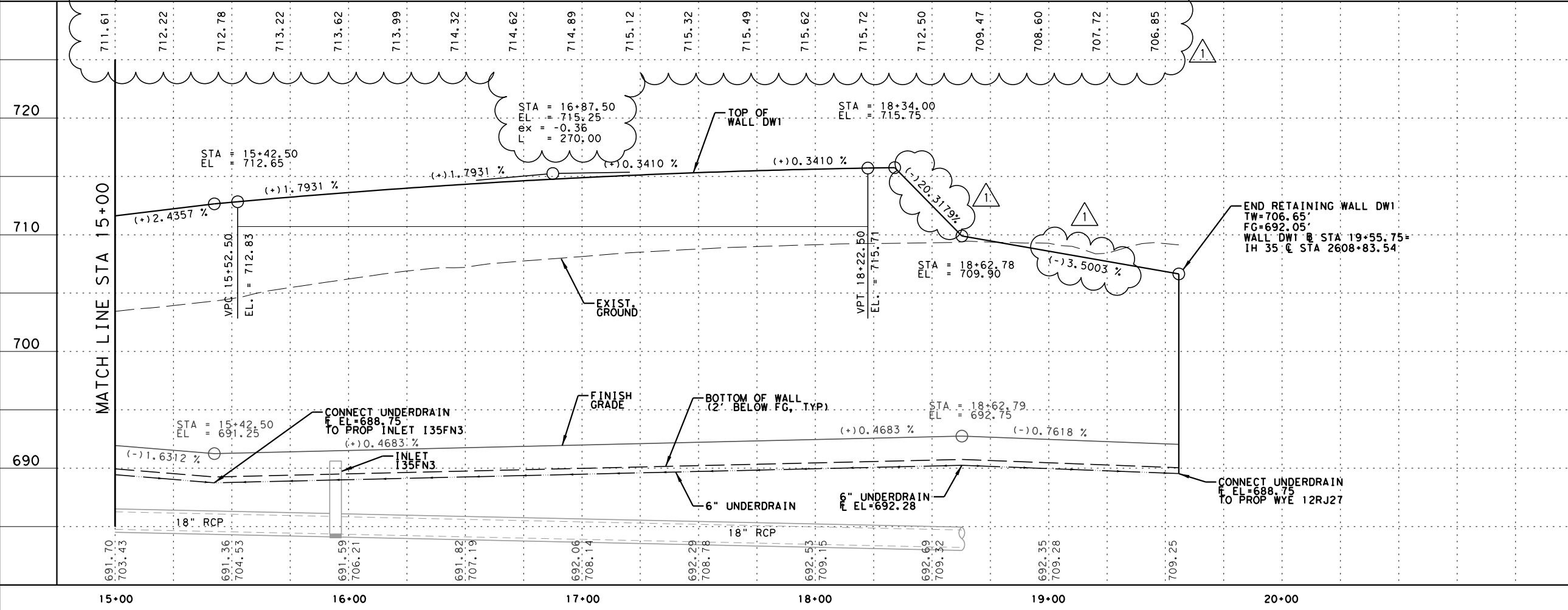
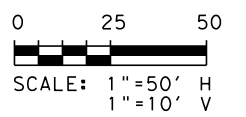
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STATE TEXAS	STATE DIST. NO. 18	COUNTY DENTON	
CONT. 0195	SECT. 02	JOB 076, ETC	HIGHWAY NO. IH 35, ETC

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- NOTES:**
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 - SEE CORE BORING SHEETS FOR SOIL CORE DATA.
 - SEE TxDOT STANDARD SHEETS RW(MSE), RW(R1), RW(R1) SUP, RW(MSE) DD, AND RW(EM) FOR INFORMATION NOT SHOWN ON THESE SHEETS.
 - FOR RETAINING WALL FINISH AND COLOR REFER TO GENERAL NOTES UNDER ITEM 423 AND ITEM 427.
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6/14/22	JMG	1	ADDNM DUE TO COMMENTS

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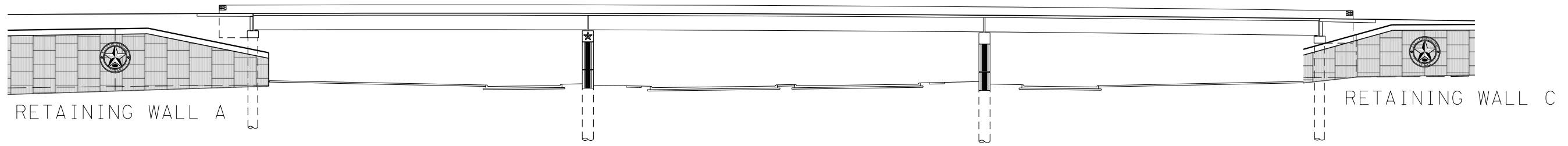
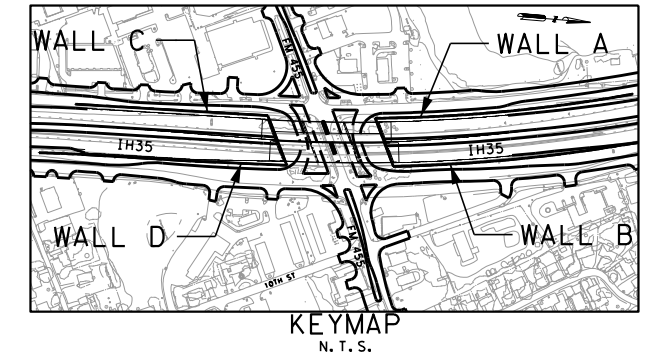


RETAINING WALL LAYOUT WALL DW1

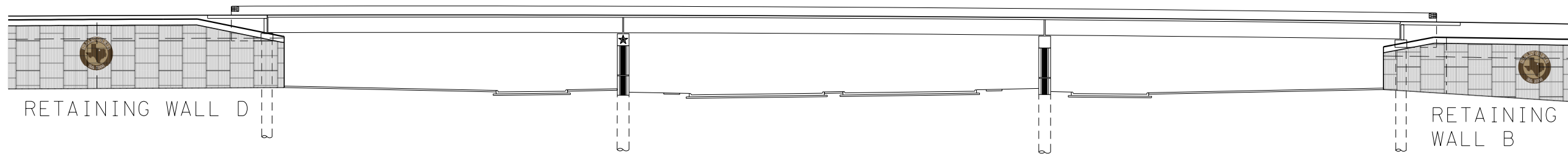
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DW: EBD	CE: JG	DB: EBD	CD: DWE
FED. NO.	PROJECT NO.		SHEET NO.
6	(See Title Sheet)		1
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

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 DATE: 2/23/2023 TIME: 3:15:10 PM USER:



SOUTHBOUND BRIDGE
(LOOKING EAST)



NORTHBOUND BRIDGE
(LOOKING WEST)

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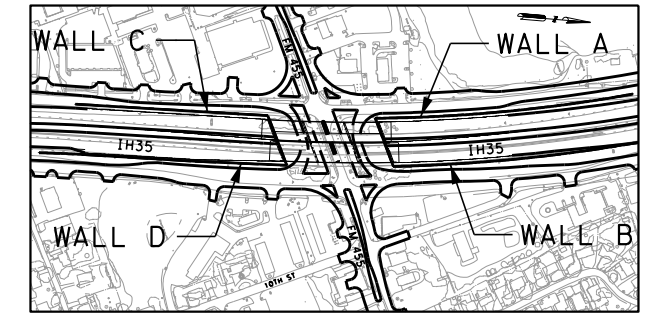
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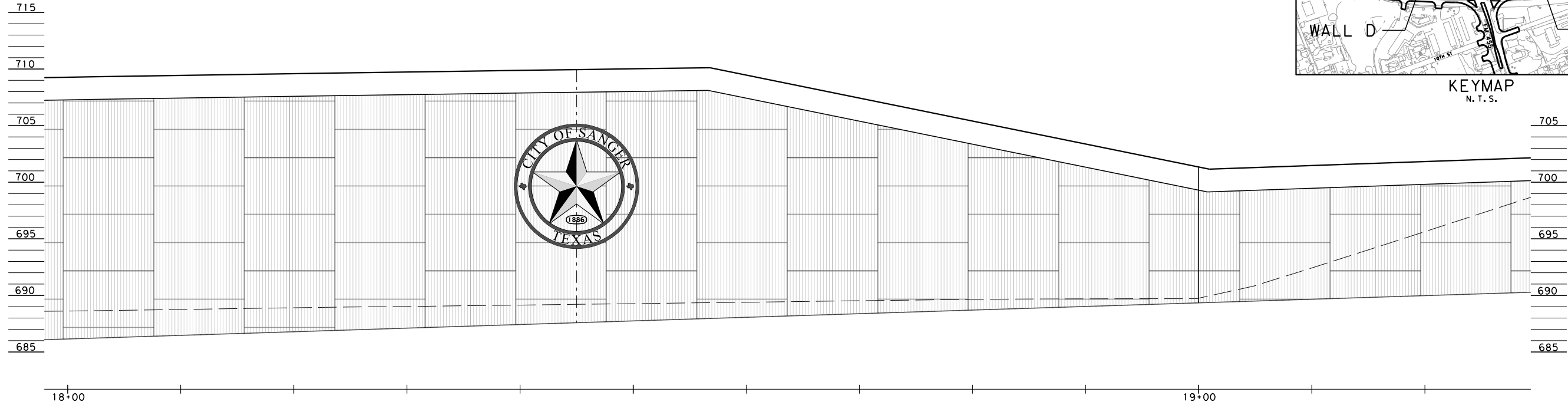
EXHIBIT
ELEVATION VIEW
NB & SB
IH 35 BRIDGES

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STATE	STATE DIST. NO.	COUNTY					
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CONT.	SECT.	JOB	HIGHWAY NO.				
0195	02	076, ETC	IH 35, ETC				

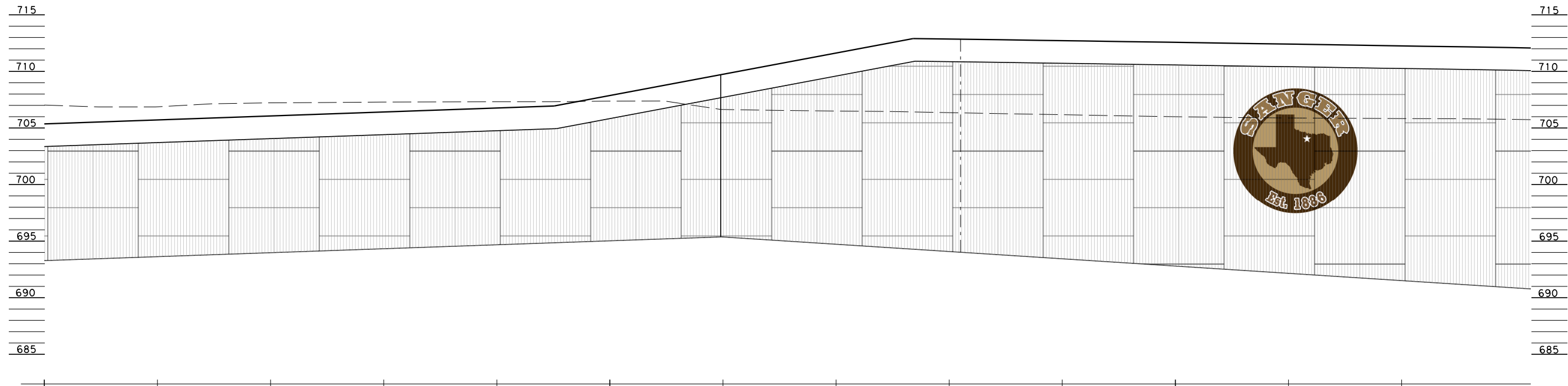
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 DATE: 2/23/2023 TIME: 3:13:02 PM USER:



KEYMAP
N. T. S.



RETAINING WALL A



RETAINING WALL B

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DATE	BY	REV	REVISION

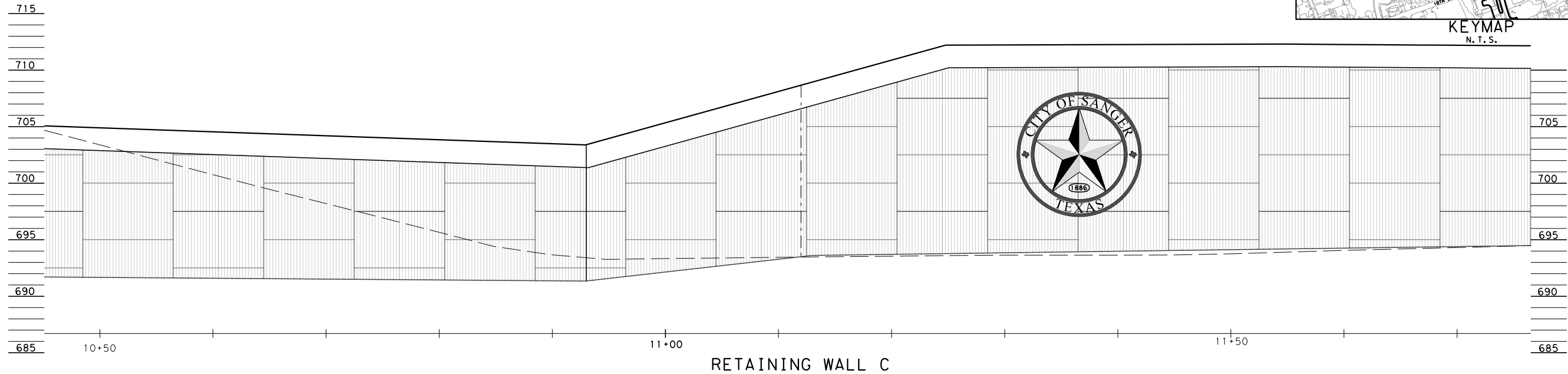
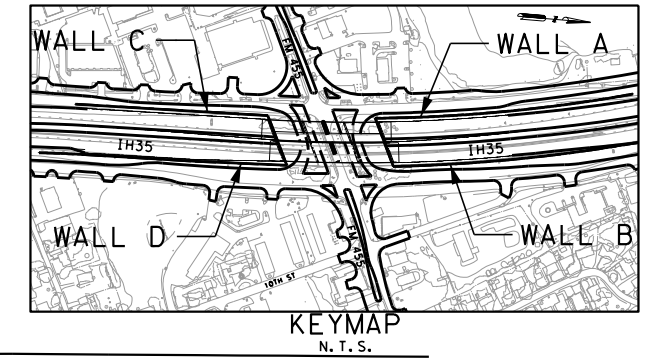
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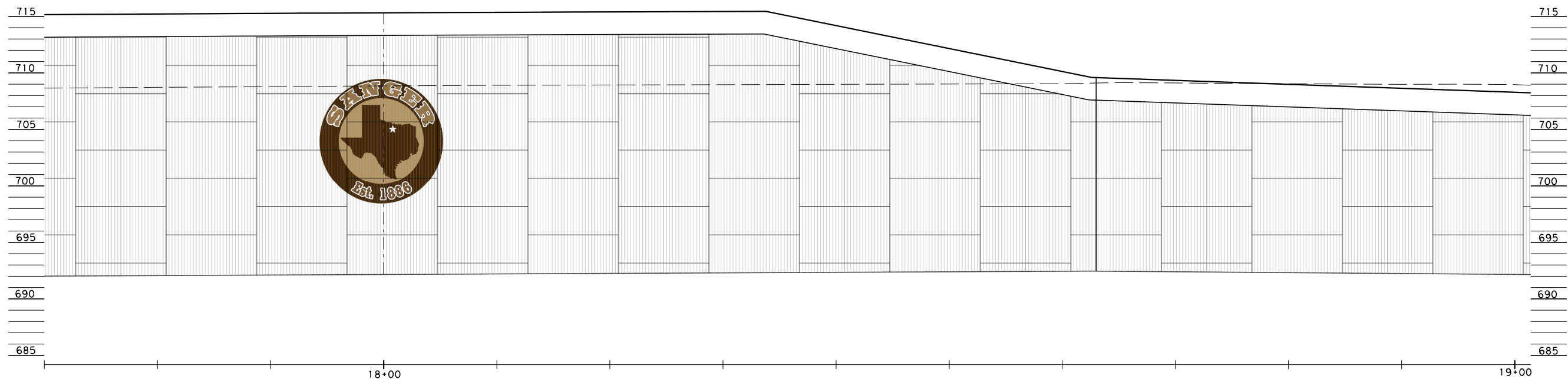
EXHIBIT
ELEVATION VIEW
RETAIN. WALLS
A & B

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STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

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 DATE: 2/23/2023 TIME: 3:13:59 PM USER:



RETAINING WALL C



RETAINING WALL D

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EXHIBIT
ELEVATION VIEW
RETAIN. WALLS
C & D

DN: EBD	CK: JG	DB: EBD	CE: DWE
FED. NO.	PROJECT NO.		SHEET NO.
6	(See Title Sheet)		1
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	IH 35, ETC

City of Sanger Texas Medallion Mounting Requirements

- ✚ Wedge Anchors shall be RED HEAD Trubolt Wedge Anchors or approved equal. The anchor shall be stainless steel ½” Dia., 3 ½” Length, 2 ¼” embedment length.
- ✚ Anchor pattern shall match the mounting locations on Medallion provided by the Philadelphia Sign Company (PSCO).
- ✚ The Medallion shall be located as shown on the PSCO shop drawings with adjustment to meet the anchor placement requirements.
- ✚ Anchors shall not be placed less than 1'-1 3/8” from the edge of any precast MSE panel.
- ✚ Anchors shall not be placed within 6” of a reinforcement connection to avoid impact to the reinforcing strip.

Trubolt Wedge Anchor - Technical Data

PERFORMANCE TABLE

Trubolt		Ultimate Tension and Shear Values (Lbs/kN) in Concrete*								
Wedge Anchors										
ANCHOR DIA. In. (mm)	INSTALLATION TORQUE Ft. Lbs. (Nm)	EMBEDMENT DEPTH In. (mm)	ANCHOR TYPE	f _c = 2000 PSI (13.8 MPa)		f _c = 4000 PSI (27.6 MPa)		f _c = 6000 PSI (41.4 MPa)		
				TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	
1/4 (6.4)	4 (5.4)	1-1/8 (28.6)	WS-Carbon or WS-G Hot-Dipped Galvanized or WW-304 S.S. or SWW-316 S.S.	1,180 (5.2)	1,400 (6.2)	1,780 (7.9)	1,400 (6.2)	1,900 (8.5)	1,400 (6.2)	
		1-15/16 (49.2)		2,100 (9.3)	1,680 (7.5)	3,300 (14.7)	1,680 (7.5)	3,300 (14.7)	1,680 (7.5)	
		2-1/8 (54.0)		2,260 (10.1)	1,680 (7.5)	3,300 (14.7)	1,680 (7.5)	3,300 (14.7)	1,680 (7.5)	
3/8 (9.5)	25 (33.9)	1-1/2 (38.1)		1,620 (7.5)	2,320 (10.3)	2,240 (10.0)	2,620 (11.7)	2,840 (12.6)	3,160 (14.1)	
		3 (76.2)		3,480 (15.5)	4,000 (17.8)	5,940 (26.4)	4,140 (18.4)	6,120 (27.2)	4,500 (20.0)	
		4 (101.6)		4,800 (21.4)	4,000 (17.8)	5,940 (26.4)	4,140 (18.4)	6,120 (27.2)	4,500 (20.0)	
1/2 (12.7)	55 (74.6)	2-1/4 (57.2)		3,455 (20.7)	4,760 (21.2)	4,920 (22.7)	4,760 (21.2)	6,025 (31.3)	7,040 (31.3)	
		4-1/8 (104.8)		4,660 (20.7)	7,240 (32.2)	9,640 (42.9)	7,240 (32.2)	10,820 (48.1)	8,160 (36.3)	
		6 (152.4)		5,340 (23.8)	7,240 (32.2)	9,640 (42.9)	7,240 (32.2)	10,820 (48.1)	8,160 (36.3)	
5/8 (15.9)	90 (122.0)	2-3/4 (69.9)		5,185 (29.3)	7,120 (31.7)	7,180 (31.9)	7,120 (31.7)	9,225 (43.2)	9,616 (42.8)	
		5-1/8 (130.2)		6,580 (29.3)	9,600 (42.7)	14,920 (66.4)	11,900 (52.9)	16,380 (72.9)	12,520 (55.7)	
		7-1/2 (190.5)		7,060 (31.4)	9,600 (42.7)	15,020 (66.8)	11,900 (52.9)	16,380 (72.9)	12,520 (55.7)	
3/4 (19.1)	110 (149.2)	3-1/4 (82.6)	6,765 (31.7)	10,120 (45.0)	10,840 (48.2)	13,720 (61.0)	13,300 (59.2)	15,980 (71.1)		
		6-5/8 (168.3)	10,980 (48.8)	20,320 (90.4)	17,700 (78.7)	23,740 (105.6)	20,260 (90.1)	23,740 (105.6)		
		10 (254.0)	10,980 (48.8)	20,320 (90.4)	17,880 (79.5)	23,740 (105.6)	23,580 (104.9)	23,740 (105.6)		
7/8 (22.2)	250 (339.0)	3-3/4 (95.3)	9,290 (42.3)	13,160 (58.5)	14,740 (65.6)	16,580 (73.8)	17,420 (77.5)	19,160 (85.2)		
		6-1/4 (158.8)	14,660 (65.2)	20,880 (92.9)	20,940 (93.1)	28,800 (128.1)	24,360 (108.4)	28,800 (128.1)		
		8 (203.2)	14,660 (65.2)	20,880 (92.9)	20,940 (93.1)	28,800 (128.1)	24,360 (108.4)	28,800 (128.1)		
1 (25.4)	300 (406.7)	4-1/2 (114.3)	11,770 (62.0)	16,080 (71.5)	19,245 (89.8)	22,820 (101.5)	21,180 (94.2)	24,480 (108.9)		
		7-3/8 (187.3)	14,600 (64.9)	28,680 (127.6)	23,980 (106.7)	37,940 (168.8)	33,260 (148.0)	38,080 (169.4)		
		9-1/2 (241.3)	18,700 (83.2)	28,680 (127.6)	26,540 (118.1)	37,940 (168.8)	33,260 (148.0)	38,080 (169.4)		

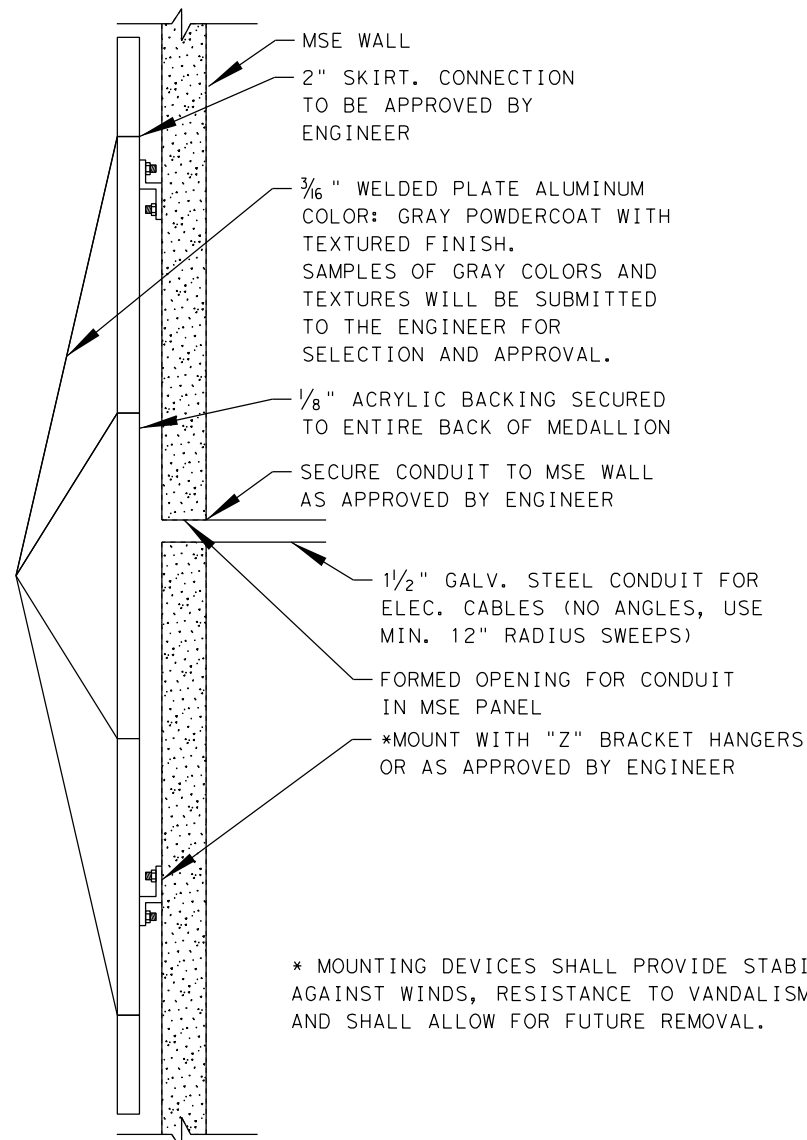
* Allowable values are based upon a 4 to 1 safety factor. Divide by 4 for allowable load values.
 * For Tie-Wire Wedge Anchor, TW-1400, use tension data from 1/4" diameter with 1-1/8" embedment.
 * For continuous extreme low temperature applications, use stainless steel.

PERFORMANCE TABLE

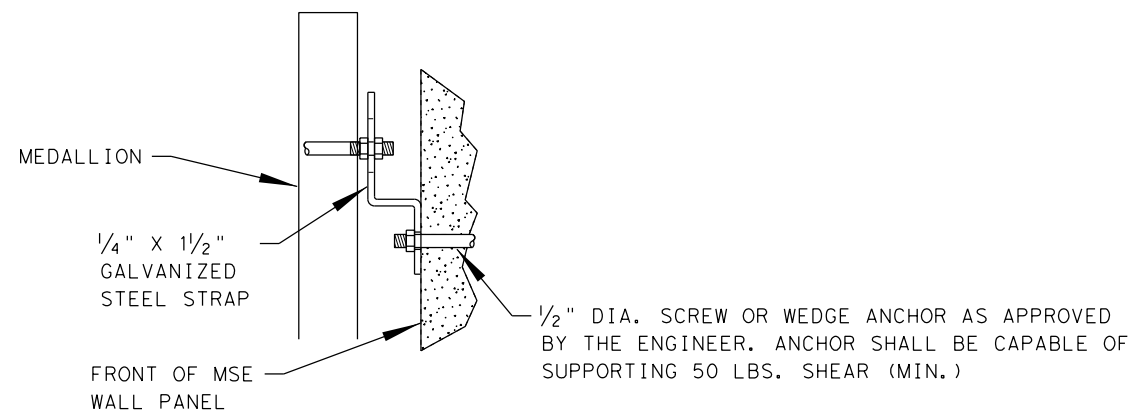
Trubolt		Ultimate Tension and Shear Values (Lbs/kN) in Lightweight Concrete*					
Wedge Anchors							
ANCHOR DIA. In. (mm)	INSTALLATION TORQUE Ft. Lbs. (Nm)	EMBEDMENT DEPTH In. (mm)	ANCHOR TYPE	LIGHTWEIGHT CONCRETE f _c = 3000 PSI (20.7 MPa)		LOWER FLUTE OF STEEL DECK WITH LIGHTWEIGHT CONCRETE FILL f _c = 3000 PSI (20.7 MPa)	
				TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
3/8 (9.5)	25 (33.9)	1-1/2 (38.1)	WS-Carbon or WS-G Hot-Dipped Galvanized or WW-304 S.S. or SWW-316 S.S.	1,175 (5.2)	1,480 (6.6)	1,900 (8.5)	3,160 (14.1)
		3 (76.2)		2,825 (12.6)	2,440 (10.9)	2,840 (12.6)	4,000 (17.8)
1/2 (12.7)	55 (74.6)	2-1/4 (57.2)		2,925 (13.0)	2,855 (12.7)	3,400 (15.1)	5,380 (23.9)
		3 (76.2)		3,470 (15.4)	3,450 (15.3)	4,480 (19.9)	6,620 (29.4)
		4 (101.6)		4,290 (19.1)	3,450 (15.3)	4,800 (21.4)	6,440 (28.6)
5/8 (15.9)	90 (122.0)	3 (76.2)		4,375 (19.5)	4,360 (19.4)	4,720 (21.0)	5,500 (24.5)
		5 (127.0)		6,350 (28.2)	6,335 (28.2)	6,580 (29.3)	9,140 (40.7)
3/4 (19.1)	110 (149.2)	3-1/4 (82.6)		5,390 (24.0)	7,150 (31.8)	5,840 (26.0)	8,880 (39.5)
		5-1/4 (133.4)		7,295 (32.5)	10,750 (47.8)	7,040 (31.3)	N/A

* Allowable values are based upon a 4 to 1 safety factor. Divide by 4 for allowable load values.

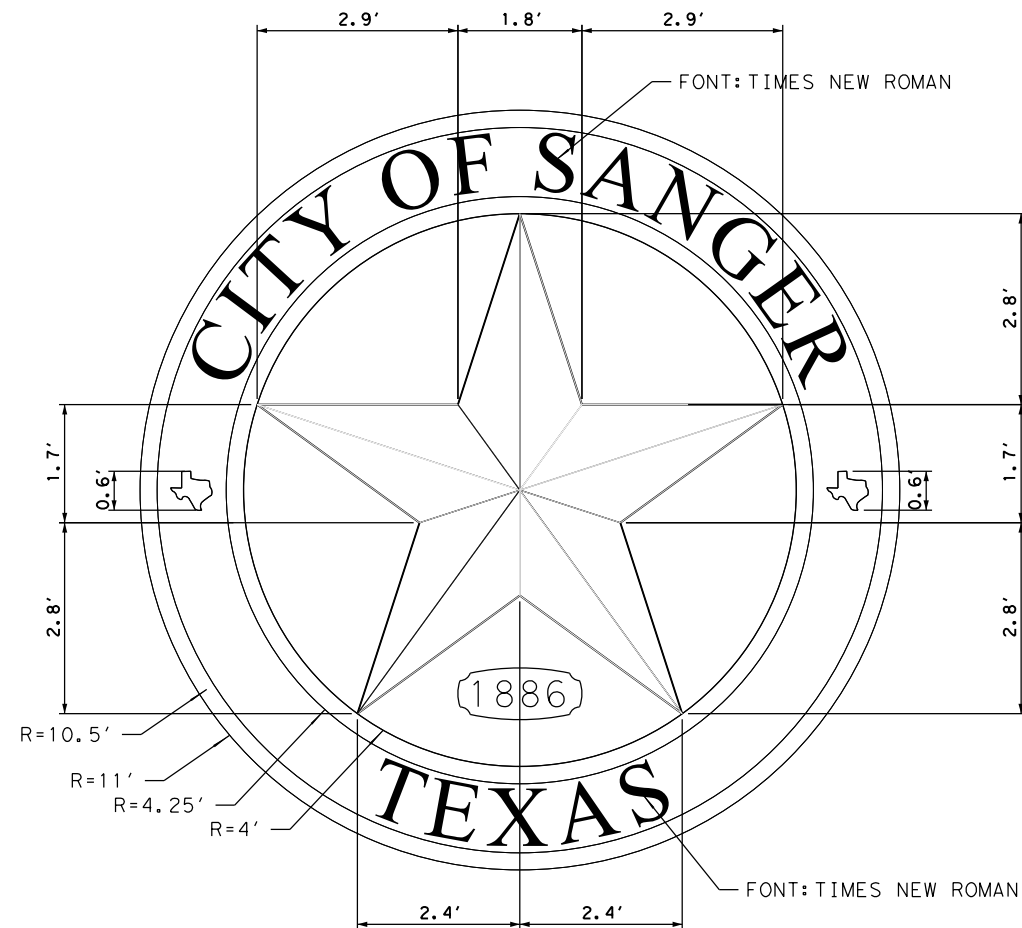
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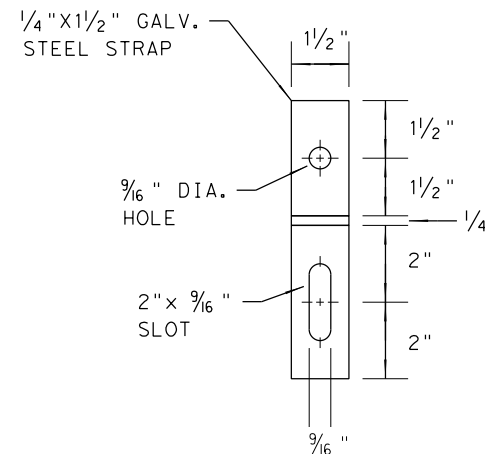
TEXAS STAR MEDALLION ON WALL
 ELEVATION NTS



MOUNTING HANGER
 SECTION NTS



TEXAS STAR MEDALLION
 ELEVATION NTS



MOUNTING ANCHOR
 ELEVATION NTS

DATE	BY	REV	REVISION

DEC DE CORP
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 DALLAS, TEXAS 75234
 (972)239-2002 • www.deccorp.com
ENGINEERING EXCELLENCE T.B.P.E. FIRM REGISTRATION #8996

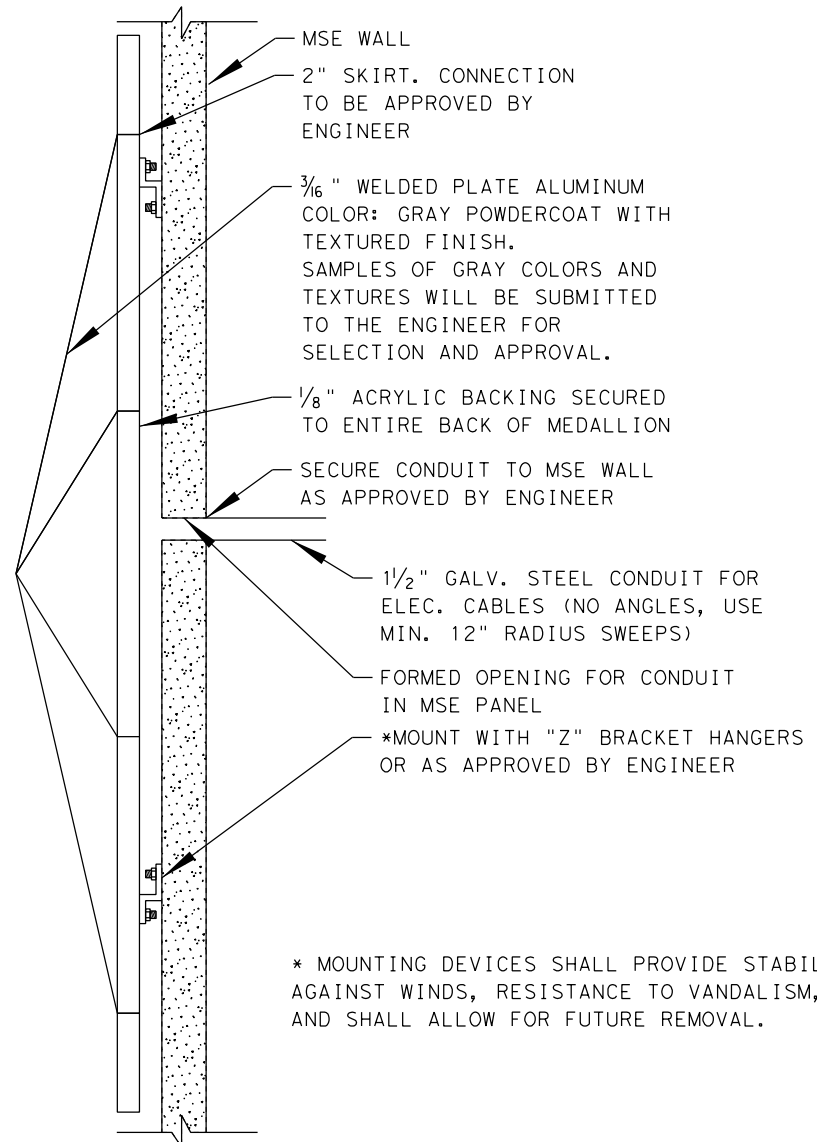
Texas Department of Transportation
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MEDALLION ANCHOR DETAILS

SHEET 1 OF 1

DN: EBD	CK: JG	DN: EBD	CK: DWE
FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	(See Title Sheet)		
STATE	STATE DIST. NO.	COUNTY	
TEXAS	18	DENTON	
CONT.	SECT.	JOB	HIGHWAY NO.
0195	02	076, ETC	1H 35, ETC

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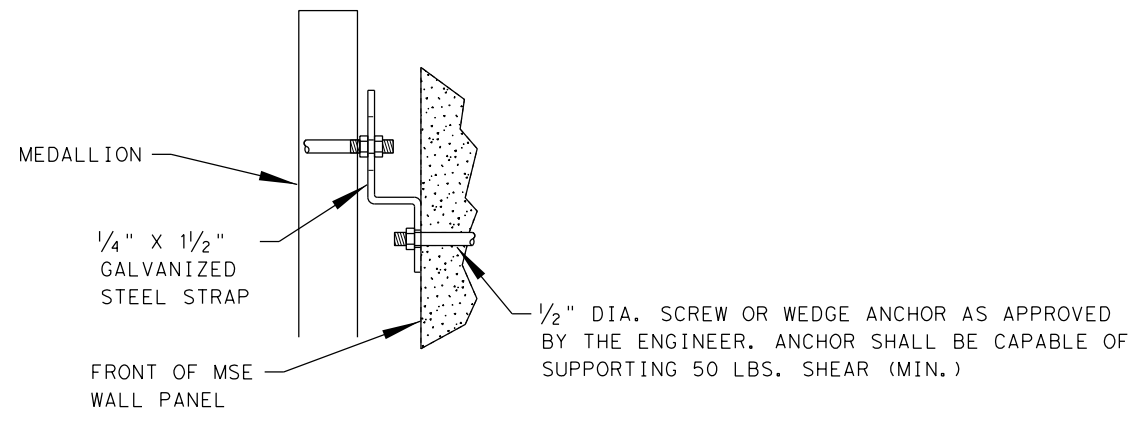


TEXAS STAR MEDALLION ON WALL
 ELEVATION NTS

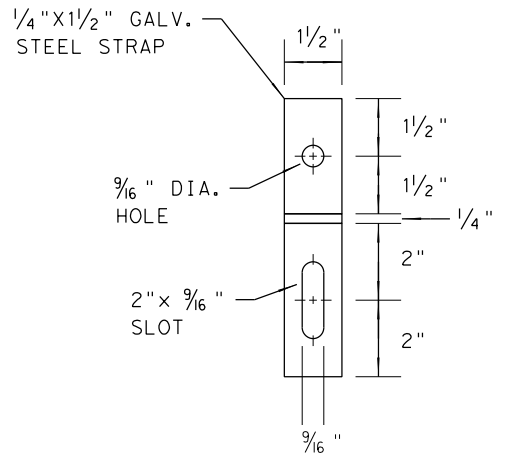
* MOUNTING DEVICES SHALL PROVIDE STABILITY AGAINST WINDS, RESISTANCE TO VANDALISM, AND SHALL ALLOW FOR FUTURE REMOVAL.



TEXAS STAR MEDALLION
 ELEVATION NTS



MOUNTING HANGER
 SECTION NTS



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