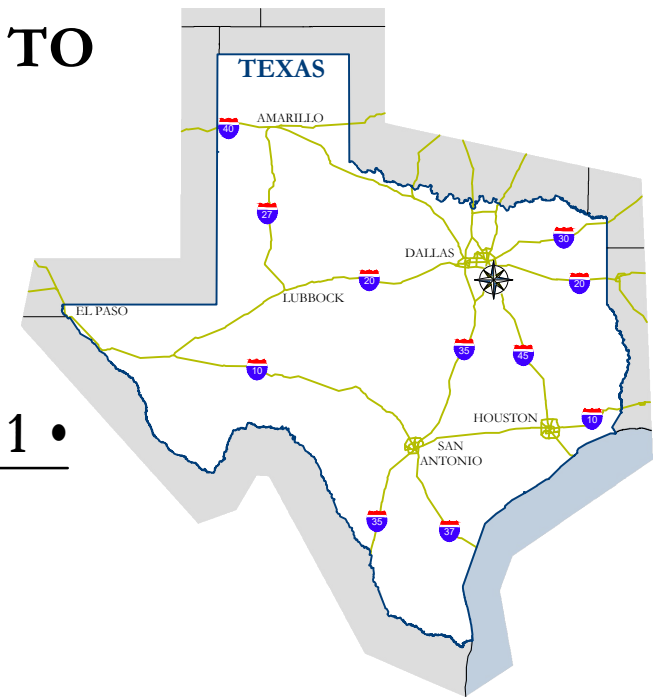


TXDOT CSJ NO.:2618ENNIS

• ADDITIVE ALTERNATE BID NO. 1 •

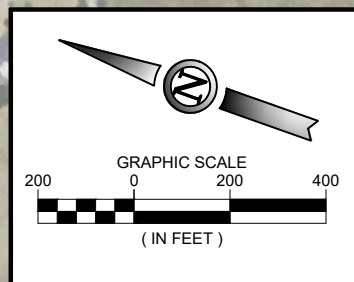
TAXIWAY A EXTENSION

**NOTE: PAVEMENT DESIGNED FOR CRITICAL
AIRCRAFT 16,000 LB. SINGLE WHEEL GEAR.**



KAMERON RABURN - MAYOR
LYNDA ISBELL - MAYOR PRO TEM
CATHY FALKENBACH - COMMISSIONER WARD 1
BRUCE JONES - COMMISSIONER WARD 2
SCOTT HEJNY - COMMISSIONER WARD 3
SHIRLEY WATSON - COMMISSIONER WARD 4
ERIC PIERCE - COMMISSIONER WARD 5

BASE BID:
WIDEN RUNWAY 16/34,
REHABILITATE RUNWAY
16/34, PARALLEL TAXIWAY &
CONNECTORS, AND APRON

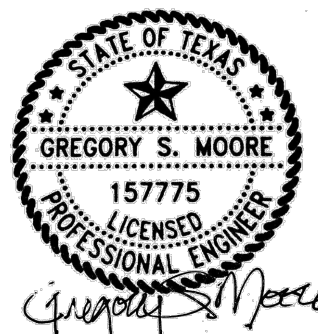


WOOLPERT

Phone: 937.531.1494
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woolpert.com

PREPARED FOR:
ENNIS MUNICIPAL AIRPORT
3000 W. ENNIS AVE.
ENNIS, TEXAS 75119

ISSUED FOR BID



FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL AIRPORT

DES: A.D.	ISSUE RECORD			
DR: J.K.W.	NO.	BY	DATE	DESCRIPTION
	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY EXTENSION & AIRFIELD ELECTRICAL

COVER SHEET

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.	10022171.00.001.01
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SHEET NAME

G001

SHEET NO.

1 of 109

Printed July 31, 2026 @ 2:22 PM by: Moore, CReg
 P:\acquisitions\1710project\F41\2024 runway widening, taxiway extension, airfield electrical\F - CAD\PLANS\000-F41-TXDOT-24-G002-ANDX.dwg

INDEX OF DRAWINGS		
SHEET NO.	SHEET TITLE	SHEET DESCRIPTION
1	G001	COVER SHEET
2	G002	INDEX OF DRAWINGS AND SUMMARY OF QUANTITIES
3	G003	GENERAL NOTES I
4	G004	GENERAL NOTES II
5	G005	MASTER LEGEND & ABBREVIATIONS
6	G006	PROJECT LAYOUT AND SURVEY CONTROL PLAN
7	G020	GEOTECHNICAL INVESTIGATION PLAN
8	G021	GEOTECHNICAL INVESTIGATION - BORE LOGS I
9	G022	GEOTECHNICAL INVESTIGATION - BORE LOGS II
10	G023	GEOTECHNICAL INVESTIGATION - BORE LOGS III
11	G024	GEOTECHNICAL INVESTIGATION - BORE LOGS IV
12	G025	GEOTECHNICAL INVESTIGATION - BORE LOGS V
13	G026	GEOTECHNICAL INVESTIGATION - BORE LOGS VI
14	G027	GEOTECHNICAL INVESTIGATION - BORE LOGS VII
15	G028	GEOTECHNICAL INVESTIGATION - BORE LOGS VIII
16	G029	GEOTECHNICAL INVESTIGATION - BORE LOGS IX
17	G030	GEOTECHNICAL INVESTIGATION - BORE LOGS X
18	G031	GEOTECHNICAL INVESTIGATION - BORE LOGS XI
19	G032	GEOTECHNICAL INVESTIGATION - BORE LOGS XII
20	G033	GEOTECHNICAL INVESTIGATION - BORE LOGS XIII
21	G034	GEOTECHNICAL INVESTIGATION - BORE LOGS XIV
22	G035	GEOTECHNICAL INVESTIGATION - BORE LOGS XV
23	G036	GEOTECHNICAL INVESTIGATION - BORE LOGS XVI
24	G037	GEOTECHNICAL INVESTIGATION - BORE LOGS XVII
25	G038	GEOTECHNICAL INVESTIGATION - BORE LOGS XVIII
26	G039	GEOTECHNICAL INVESTIGATION - BORE LOGS XIX
27	G050	CONSTRUCTION SAFETY NOTES
28	G051	CONSTRUCTION SAFETY OVERALL PHASING PLAN
29	G052	CONSTRUCTION SAFETY PLAN - PHASE 1A
30	G053	CONSTRUCTION SAFETY PLAN - PHASE 1B
31	G054	CONSTRUCTION SAFETY PLAN - PHASE 2
32	G055	CONSTRUCTION SAFETY DETAILS
33	G056	TRAFFIC CONTROL PLAN
34	G070	EROSION CONTROL NOTES
35	G071	EROSION CONTROL DETAILS
36	G072	ENVIRONMENTAL EXHIBIT
37	C101	DEMOLITION PLAN - STA. 1042+62.72 TO STA. 1038+00, RUNWAY 16/34
38	C102	DEMOLITION PLAN - STA. 1038+00 TO STA. 1031+50, RUNWAY 16/34
39	C103	DEMOLITION PLAN - STA. 1031+50 TO STA. 1025+00, RUNWAY 16/34
40	C104	DEMOLITION PLAN - STA. 1025+00 TO STA. 1018+50, RUNWAY 16/34
41	C105	DEMOLITION PLAN - STA. 1018+50 TO STA. 1012+00, RUNWAY 16/34 AND APRON
42	C105A	DEMOLITION PLAN - MATCHLINE A, APRON
43	C106	DEMOLITION PLAN - STA. 1012+00 TO STA. 1005+50, RUNWAY 16/34
44	C107	DEMOLITION PLAN - STA. 1005+50 TO STA. 1002+44.29, RUNWAY 16/34
45	C108	DEMOLITION PLAN - STA. 1012+00 TO STA. 1005+50 - RUNWAY 16/34, MATCHLINE B, ADDITIVE ALTERNATE BID NO. 1
46	C108A	DEMOLITION PLAN - STA. 1012+00 TO STA. 1005+50, RUNWAY 16/34, MATCHLINE B, ADDITIVE ALTERNATE BID NO. 1
47	C109	DEMOLITION PLAN - STA. 1005+50 TO STA. 1002+44.29, RUNWAY 16/34, ADDITIVE ALTERNATE BID NO. 1
48	C201	GEOMETRY PLAN - STA. 1042+61.82 TO STA. 1038+00, RUNWAY 16/34
49	C202	GEOMETRY PLAN - STA. 1038+00 TO STA. 1031+50, RUNWAY 16/34
50	C203	GEOMETRY PLAN - STA. 1031+50 TO STA. 1025+00, RUNWAY 16/34
51	C204	GEOMETRY PLAN - STA. 1025+00 TO STA. 1018+50, RUNWAY 16/34
52	C205	GEOMETRY PLAN - STA. 1018+50 TO STA. 1012+00 AND MATCHLINE A, RUNWAY 16/34
53	C205A	GEOMETRY PLAN - MATCHLINE A, APRON
54	C206	GEOMETRY PLAN - STA. 1012+00 TO STA. 1005+50, RUNWAY 16/34
55	C207	GEOMETRY PLAN - STA. 1005+50 TO STA. 1002+44.29, RUNWAY 16/34

56	C208	GEOMETRY PLAN - STA. 1012+91.5 TO STA. 1006+50, RUNWAY 16/34 ADDITIVE ALTERNATE BID NO. 1
57	C209	GEOMETRY PLAN - STA. 1006+50 TO STA. 1002+44.29, RUNWAY 16/34 ADDITIVE ALTERNATE BID NO. 1
58	C221	TYPICAL SECTIONS
59	C222	PAVEMENT DETAILS
60	C301	GRADING PLAN - STA. 1046+62.72 TO STA. 1038+00, RUNWAY 16/34
61	C302	GRADING PLAN - STA. 1031+50 TO STA. 1038+00, RUNWAY 16/37
62	C303	GRADING PLAN - STAL. 1031+50 TO STA. 1025+00, RUNWAY 16/34
63	C304	GRADING PLAN - STA. 1025+00 TO STA. 1018+50, RUNWAY 16/34
64	C305	GRADING PLAN - STA. 1018+50 TO STA. 1012+00, RUNWAY 16/34
65	C305A	GRADING PLAN - MATCHLINE A, RUNWAY 16/34
66	C306	GRADING PLAN - STA. 1012+00 TO STA. 1005+50, RUNWAY 16/34
67	C307	GRADING PLAN - STA. 1005+50 TO STA. 1002+44.29, RUNWAY 16/34
68	C308	GRADING PLAN - STA. 1012+91.25 TO STA. 1006+50, RUNWAY 16/34, ADDITIVE ALTERNATE BID NO. 1
69	C309	GRADING PLAN - STA. 1006+50 TO STA. 1002+44.29, RUNWAY 16/34, ADDITIVE ALTERNATE BID NO.1
70	C401	PLAN & PROFILE - STA. 1043+50 TO STA. 1033+00, RUNWAY 16/34
71	C402	PLAN & PROFILE - STA. 1033+00 TO STA. 1022+50, RUNWAY 16/34
72	C403	PLAN & PROFILE - STA. 1022+50 TO STA. 1012+00, RUNWAY 16/34
73	C404	PLAN & PROFILE - STA. 1012+00 TO STA. 1002+00, RUNWAY 16/34
74	C405	PLAN & PROFILE - STA. 598+00 TO STA. 610+50, TAXIWAY A
75	C406	PLAN & PROFILE - STA. 610+50 TO STA. 623+00, TAXIWAY A
76	C407	PLAN & PROFILE - STA. 623+00 TO STA. 633+66, TAXIWAY A
77	C408	PLAN & PROFILE - STA. 590+50 TO STA. 603+00, TAXIWAY A, ADDITIVE BID ALTERNATE NO. 1
78	C409	PLAN & PROFILE - TAXIWAY A2, TAXIWAY A3, AND TAXIWAY A4
79	C410	PLAN & PROFILE, TAXIWAY A4, ADDITIVE BID ALTERNATE NO. 1
80	C501	DRAINAGE PLAN AND PROFILE, TAXIWAY A3
81	C502	DRAINAGE PLAN & PROFILE - TAXILANE 1, TAXILANE 2, AND TAXILANE 3 - ADDITIVE ALTERNATE BID NO. 1
82	C701	PAVEMENT MARKING PLAN - STA. 1042+61.82 TO STA. 1038+00, RUNWAY 16/34
83	C702	PAVEMENT MARKING PLAN - STA. 1038+00 TO STA. 1031+50, RUNWAY 16/34
84	C703	PAVEMENT MARKING PLAN - STA. 1031+50 TO STA. 1025+00, RUNWAY 16/34
85	C704	PAVEMENT MARKING PLAN - STA. 1025+00 TO STA. 1018+50, RUNWAY 16/34
86	C705	PAVEMENT MARKING PLAN - STA. 1018+50 TO STA. 1012+00 AND MATCHLINE A, RUNWAY 16/34
87	C705A	PAVEMENT MARKING PLAN - MATCHLINE A, APRON
88	C706	PAVEMENT MARKING PLAN - STA. 1012+00 TO STA. 1005+50, RUNWAY 16/34
89	C707	PAVEMENT MARKING PLAN - STA. 1005+50 TO STA. 1002+44.29, RUNWAY 16/34
90	C708	MARKING PLAN - STA. 1012+91.5 TO STA. 1006+50, RUNWAY 16/37 ADDITIVE ALTERNATE BID NO. 1
91	C709	MARKING PLAN - STA. 1006+50 TO STA. 1002+44.29, RUNWAY 16/34 ADDITIVE ALTERNATE BID NO. 1
92	C721	PAVEMENT MARKING DETAILS
93	E001	ELECTRICAL LEGEND AND NOTES
94	E201	ELECTRICAL GEOMETRY STA. 1043+00 TO STA. 1036+50, RUNWAY 16/34
95	E202	ELECTRICAL GEOMETRY STA. 1036+50 TO STA. 1030+00, RUNWAY 16/34
96	E203	ELECTRICAL GEOMETRY STA. 1030+00 TO STA. 1023+50, RUNWAY 16/34
97	E204	ELECTRICAL GEOMETRY STA. 1023.50 TO STA. 1017+00, RUNWAY 16/34
98	E205	ELECTRICAL GEOMETRY STA. 1017+00 TO STA. 1010+50, RUNWAY 16/34
99	E206	ELECTRICAL GEOMETRY STA. 1010+50 TO STA. 1005+00, RUNWAY 16/34
100	E207	ELECTRICAL GEOMETRY STA. 1005+00 TO STA. 1002+00, RUNWAY 16/34
101	E250	ELECTRICAL DETAILS AND NOTES
102	E251	ELECTRICAL DETAILS AND NOTES
103	E252	ELECTRICAL DETAILS AND NOTES
104	E253	ELECTRICAL DETAILS AND NOTES
105	E254	ELECTRICAL DETAILS AND NOTES
106	E255	ELECTRICAL DETAILS AND NOTES
107	E256	ELECTRICAL DETAILS AND NOTES
108	SETP-CD-A	SAFETY END TREATMENT FOR DESIGN 1 TO 7 ARCH PIPE CULVERTS - TYPE II ~ CROSS DRAINAGE
109	SETP-CD	FOR 12" DIA TO 60" DIA PIPE CULVERTS - TYPE II ~ CROSS DRAINAGE

F41 RUNWAY WIDENING, AIRFIELD ELECTRICAL AND PAVEMENT REHABILITATION			BASE BID	ADD ALTERNATE #1
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	QUANTITY
C-100	CONTRACTOR QUALITY CONTROL PROGRAM	LS	1	
C-105	MOBILIZATION	LS	1	
TX-105a	FULL DEPTH ASPHALT PAVEMENT AND BASE REMOVAL (RUNWAY/TAXIWAY)	SY	5,755	6,176
TX-105b	FULL DEPTH ASPHALT PAVEMENT AND BASE REMOVAL (APRON)	SY	2,392	
TX-105c	REMOVE EXISTING ASPHALT PAVEMENT (APRON)	SY	4,770	
TX-110	EXCAVATION	CY	9,020	4,384
TX-132	EMBANKMENT (TYPE D)	CY	4,267	4,271
TX-164	BROADCAST SEEDING (PERM)	AC	10	5
TX-168	VEGETATIVE WATERING	TGL	2,400	1,200
TX-247a	6.5" CRUSHED AGGREGATE BASE COURSE (TYPE A, GRADE 1-2)	SY	8,757	5,330
TX-247b	9" CRUSHED AGGREGATE BASE COURSE (TYPE A, GRADE 1-2)	SY	2,392	
TX-260a	LIME TREATED SUBGRADE - 12 INCH	SY	8,024	5,992
TX-260b	LIME TREATED SUBGRADE - 6 INCH	SY	2,392	
TX-260c	LIME	TON	162	105
TX-300	TACK COAT	SY	8,959	4,668
TX-341a	HOT MIX ASPHALT SURFACE COURSE (TYPE D, SAC B, PG 64-22, TAXIWAYS)	TON	3,105	814
TX-341b	HOT MIX ASPHALT SURFACE COURSE (TYPE D, SAC B, PG 64-22, RUNWAY)	TON	5,050	
TX-341c	HOT MIX ASPHALT SURFACE COURSE (TYPE D, SAC B, PG 64-22, APRON)	TON	840	
TX-351	FULL DEPTH SPOT RECONSTRUCTION (FLEXIBLE QUANTITY)	SY	2,000	
TX-354	PLANING AND TEXTURING PAVEMENT	SY	38,135	(1,441)
TX-464a	REINFORCED CONCRETE PIPE (18 IN., CLASS 5)	LF	0	192
TX-464b	REINFORCED CONCRETE PIPE (ELLIPTICAL, 18 IN. X 12 IN., CLASS 5)	LF	56	
TX-467a	SAFETY END TREATMENT (TYPE II, 18 IN.)	EA	0	6
TX-467b	SAFETY END TREATMENT (TYPE II, 18 IN. X 12 IN.)	EA	2	
TX-506	EROSION CONTROL	LS	1	
ST-P-311	PAVEMENT FABRIC	SY	39,890	
P-620a	REFLECTORIZED PAVEMENT MARKING (WHITE)	SF	19,170	
P-620b	REFLECTORIZED PAVEMENT MARKING (YELLOW)	SF	5,680	855
P-620c	PAVEMENT MARKING (BLACK)	SF	1,905	80
P-640	AIRCRAFT TIE-DOWN ANCHOR	EA	27	
L-101a	REMOVE L-801A AIRPORT ROTATING BEACON	EA	1	
L-101b	INSTALL LED L-801A AIRPORT ROTATING BEACON	EA	1	
L-103a	REMOVE BEACON TOWER	EA	1	
L-103b	INSTALL TIP-DOWN BEACON POLE	EA	1	
L-107a	REMOVE L-807 PRIMARY WIND CONE	EA	1	
L-107b	REMOVE SEGMENTED CIRCLEE	EA	1	
L-107c	INSTALL LED L-807 PRIMARY WIND CONE	EA	1	
L-107d	INSTALL SEGMENTED CIRCLE	EA	1	
L-108a	INSTALL #8 AWG, L-824C, 5000V WIRE	LF	25,000	
L-108b	INSTALL #6 AWG BARE COPPER COUNTERPOISE INCL GROUND RODS & TERMINATIONS	LF	13,000	
L-109a	REMOVE AIRFIELD LIGHTING VAULT	LS	1	
L-109b	INSTALL PREFAB AIRFIELD LIGHTING VAULT	LS	1	
L-109c	INSTALL L-829 CONSTANT CURRENT REGULATOR, FERRORESONANT TYPE	EA	1	
L-110a	INSTALL 1-2" SCH 40 PVC CONDUIT, DIRECT EARTH BURIED (DEB)	LF	12,000	
L-110b	INSTALL 1-2" SCH 40 PVC CONDUIT, CONCRETE ENCASED (CE)	LF	600	
L-110c	INSTALL 1-2" HDPE CONDUIT, DIRECTIONALLY BORED	LF	100	
L-115a	INSTALL NEW L-867 JUNCTION BOX	EA	4	
L-125a	REMOVE RUNWAY EDGE LIGHT	EA	50	
L-125b	REMOVE RUNWAY THRESHOLD LIGHT	EA	24	
L-125c	REMOVE PAPI SYSTEM	EA	2	
L-125d	REMOVE REIL SYSTEM	EA	2	
L-125e	REMOVE GUIDANCE SIGN	EA	12	
L-125f	REMOVE RETROREFLECTIVE MARKER	EA	200	
L-125g	INSTALL L-861 LED RUNWAY EDGE LIGHT ON NEW BASE	EA	50	
L-125h	INSTALL L-861E LED RUNWAY THRESHOLD LIGHT ON NEW BASE	EA	24	
L-125i	INSTALL LED L-881 PAPI SYSTEM	EA	2	
L-125j	INSTALL LED L-849 REIL SYSTEM	EA	2	
L-125k	INSTALL LED L-858 LIGHTED GUIDANCE SIGN ON NEW CONCRETE PAD, SIZE 1	EA	12	
L-125l	INSTALL RETROREFLECTIVE MARKER	EA	200	

ISSUED FOR BID

Gregory S. Moore
 5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

		ENNIS MUNICIPAL AIRPORT	DES: S.D.C.	ISSUE RECORD				RUNWAY WIDENING, TAXIWAY EXTENSION & AIRFIELD ELECTRICAL	INDEX OF DRAWINGS AND SUMMARY OF QUANTITIES		SHEET NAME
			DR: J.K.W.	NO.	BY	DATE	DESCRIPTION				G002
			CH: C.L.G.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING				
			APP: G.S.M.								

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

2 of 109

Printed June 5, 2026 @ 11:01 AM by: Walker, Jude
 W:\acquisitions\UT\projects\1412224 runway widening, taxiway extension, airfield electrical\F-CADD\PLANS\G00-041_TXDOT-24-G003-GE-NC.dwg

GENERAL NOTES

1. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, OR REPRESENT A SIGNIFICANT DIFFERENCE BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
2. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
3. WHENEVER, IN THE CONTRACT DOCUMENTS, THE WORDS "PROVIDE", "FURNISH", "INSTALL", "FURNISH AND INSTALL", OR SIMILAR WORDS ARE USED, IT SHALL BE UNDERSTOOD THAT THE INTENT OF THE CONTRACT DOCUMENTS IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION IN EVERY DETAIL THE WORK DESCRIBED. IT IS FURTHER INTENDED THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, TESTING, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS (PLANS), SPECIFICATIONS, AND TERMS OF THE CONTRACT.
4. CONTRACTOR SHALL KEEP A SET OF AS-BUILT DRAWINGS ON-SITE AND MAKE AVAILABLE TO THE ENGINEER AT ALL TIMES. AS-BUILT SET SHALL BE SUBMITTED TO THE ENGINEER AT THE COMPLETION OF THE JOB. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL AS-BUILT INFORMATION DURING THE PROJECT. THE CONTRACTOR SHALL NOTE, AND BRING TO THE ENGINEER'S ATTENTION, ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
5. ALL DAMAGE TO UTILITIES, PAVEMENT, EQUIPMENT, OR STRUCTURES FROM CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPORTED TO THE RPR. THE RPR SHALL DETERMINE WHETHER REPAIR OR REPLACEMENT IS NECESSARY. ALL REPAIR METHODS SHALL BE SUBMITTED TO THE RPR FOR REVIEW AND APPROVAL PRIOR TO INITIATING THE WORK. REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE SPONSOR AND TO THE APPROVAL OF THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE WORKMANSHIP AND MATERIALS THAT ARE OF GOOD QUALITY AND COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
7. CONTRACTOR SHALL PROVIDE WORK, EQUIPMENT AND MATERIALS THAT COMPLY WITH FAA REQUIREMENTS, NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, AND ALL LOCAL CODES.
8. CONTRACTOR SHALL PROVIDE THE NECESSARY NUMBER OF RADIOS FOR HIS/HER WORKFORCE.
9. SWEEPER(S) SHALL BE AVAILABLE AT ALL TIMES TO CLEAN FOREIGN OBJECT DEBRIS (FOD) FROM HAUL ROUTE OR OTHER AREAS ADJACENT TO CONSTRUCTION ACTMITY. CONTRACTOR SHALL CONSTANTLY MONITOR AIRCRAFT MOVEMENT AREAS FOR FOD AND IMMEDIATELY REMOVE ALL DEBRIS.
10. PRIOR TO OPENING OR CLOSING A RUNWAY OR TAXIWAY, THE CONTRACTOR MUST, THROUGH THE AIRPORT, GIVE NOTICE USING THE NOTICE TO AIRMAN (NOTAM) SYSTEM OF PROPOSED LOCATION, TIME AND DATE OF COMMENCEMENT OF CONSTRUCTION AND THE DURATION OF THE CLOSURE.
11. THIS PROJECT WILL GENERATE QUANTITIES OF ASPHALT MILLINGS. THE CONTRACTOR SHALL COORDINATE WITH THE SPONSOR AND/OR THE ENGINEER FOR PLACEMENT LOCATIONS. THE PLACEMENT OF MILLINGS SHALL BE CONSIDERED INCIDENTAL.
12. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS,SAMPLES AND DESIGN DRAWINGS FOR THE ENGINEER'S APPROVAL A MINIMUM OF SEVEN (7) DAYS PRIOR TO ORDERING.
13. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TXDOT STANDARD SPECIFICATIONS AND DETAILS (LATEST VERSION), FAA A/C 150/5370-10H, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE RPR.
14. TOPSOIL SHALL BE REMOVED AND STOCKPILED PRIOR TO GRADING OPERATIONS. RE-HANDLING OF TOPSOIL SHALL NOT BE MEASURED FOR PAYMENT.
15. CONTRACTOR SHALL HAVE A COPY OF THE FAA ADVISORY CIRCULAR AC 150/5340-1 (CURRENT VERSION) "STANDARDS FOR AIRPORT MARKINGS" ON SITE AT ALL TIMES. ANY DISCREPANCY BETWEEN INFORMATION SHOWN ON THE PLAN SHEETS AND THE ADVISORY CIRCULAR SHALL BE

COORDINATED WITH THE ENGINEER FOR DIRECTION.

SITE ACCESS AND STAGING

1. THE CONTRACTOR IS REQUIRED TO OBTAIN A WATER METER FROM THE CITY OF ENNIS WATER DIVISION FOR ACCESS TO CONSTRUCTION WATER FROM AN ON AIRPORT LOCATION. THE CONTACT PHONE NUMBER IS (972)875-1906. A WATER SOURCE ON AIRPORT PROPERTY AND THE PRICE OF WATER WILL BE COORDINATED AT THE TIME OF BIDDING.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL MINIMIZE DISTURBANCES TO ALL CONSTRUCTION AREAS AND ACCESS ROUTES. THIS INCLUDES EQUIPMENT AND VEHICULAR RUTS CREATED IN ANY PAVEMENTS, ANY HAUL/ACCESS ROADS, OR ANY INFIELD/SAFETY AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ROADS. REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE SPONSOR AND TO THE SATISFACTION OF THE ENGINEER. HAUL ROUTE BRIDGES SHALL BE CONSTRUCTED AT HAUL ROUTES CROSSING EXISTING AIRFIELD PAVEMENT. COSTS ASSOCIATED WITH HAUL BRIDGE CONSTRUCTION WILL BE CONSIDERED INCIDENTAL TO MOBILIZATION.
3. BEFORE ESTABLISHING SITE ACCESS AND HAUL ROUTES, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER. WHEN POSSIBLE, ACCESS/HAUL ROUTES SHALL UTILIZE EXISTING ROADS. THE CONTRACTOR SHALL MAINTAIN AIRPORT SECURITY AT ALL TIMES.
4. CONTRACTOR SHALL EXAMINE THE EXISTING PAVEMENTS THAT WILL BE USED FOR HAULING OF MATERIAL AND EQUIPMENT AND DETERMINE THE PAVEMENT'S ABILITY TO WITHSTAND CONTRACTOR OPERATIONS WITHOUT CAUSING DAMAGE TO THE PAVEMENT. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE SPONSOR.
5. CONTRACTOR SHALL BE REQUIRED TO PROVIDE NON-POTABLE WATER FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF NON-PORTABLE WATER. ANY STRUCTURES ERECTED IN SUPPORT OF WATERING OPERATIONS SHALL MEET FAA FAR PART 77 CLEARANCES FOR ALL AIRCRAFT AND BE APPROPRIATELY LIT AS A HAZARD TO THE FLYING PUBLIC. NON-POTABLE WATER USED FOR BID ITEMS OR DUST CONTROL SHALL BE INCIDENTAL TO THE PROJECT BID ITEMS.
6. DURING ANY NIGHTTIME OPERATIONS ALL AREA LIGHTING SHALL BE FACED IN DIRECTIONS AS DIRECTED BY THE ENGINEER. AT NO TIME SHALL LIGHT PLANTS BE LEFT RUNNING WHEN CONSTRUCTION OPERATIONS ARE NOT IN PROCESS.
7. ALL AREAS THAT ARE DISTURBED BY CONTRACTOR OPERATIONS SHALL BE SEEDED PER TX-164 SEEDING AND EROSION CONTROL. ALL SEEDING AND EROSION CONTROL COSTS ARE INCIDENTAL TO CONSTRUCTION AND WILL NOT BE PAID SEPARATELY.
8. ALL CONTRACTOR EMPLOYEES SHALL BE REQUIRED TO PARK IN THE CONTRACTOR'S DESIGNATED STAGING AREA ONLY.
9. CRAWLER TRACKED VEHICLES SHALL NOT BE ALLOWED ON PAVED SURFACES. TRACKED VEHICLES MUST BE MOVED ACROSS PAVED SURFACES ON A WHEELED VEHICLE.

UTILITIES

1. PRIOR TO COMMENCING WORK, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY AGENCIES, UTILITY NOTIFICATION CENTERS, AND TO FIELD VERIFY THE LOCATIONS AND DEPTHS, THROUGH UTILITY LOCATES AND POTHOLES, OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, STAGING, AND HAUL ROUTE AREAS.
2. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATION. LOCATION OF EXISTING DUCT BANK, CIRCUITING, UTILITIES AND STRUCTURES SHOWN ON THESE DRAWINGS IS BASED ON AVAILABLE INFORMATION AND IS NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL OF THESE ITEMS ARE SHOWN.
3. ANY INTERRUPTION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AIRPORT AND THE AUTHORITY, AGENCY, OR UTILITY HAVING JURISDICTION PRIOR TO STARTING WORK.

4. CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES. REPAIRS DEEMED NECESSARY BY THE ENGINEER WILL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AIRPORT.
5. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY, COUNTY, AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY SERVICE.
6. WHERE NEW DUCT BANKS OR OTHER UTILITIES ARE NEAR EXISTING UTILITIES, THE CONTRACTOR SHALL HAND EXCAVATE AROUND THE EXISTING UTILITIES IN ORDER TO PREVENT DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY UTILITY DAMAGED DURING CONSTRUCTION.
7. WHEN INSTALLING NEW UTILITIES UNDER EXISTING PAVEMENT THE CONTRACTOR SHALL NEATLY SAW CUT AND REMOVE THE EXISTING PAVEMENT PRIOR TO INSTALLING THE CONDUIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT REMOVED OR DAMAGED DURING THE UTILITY INSTALLATION PROCESS. ALL WORK REQUIRED TO REMOVE AND REPAIR PAVEMENT SHALL BE INCLUDED IN THE APPLICABLE BID ITEM.
8. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
9. CONTRACTOR SHOULD EXPECT TO ENCOUNTER WATER IN LIGHT CANS, JUNCTION CANS AND STRUCTURES. CONTRACTOR RESPONSIBLE FOR DEWATERING AT NO ADDITIONAL COST.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MAY UTILIZE THE FOLLOWING TOLL FREE TELEPHONE NUMBER PROVIDED BY "TEXAS ONE CALL SYSTEM, INC.": 811 THIS NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF TEXAS.

SUBMITTALS

1. THE CONTRACTOR SHALL SUBMIT A DETAILED LISTING OF ALL SUBMITTALS (E.G., MIX DESIGNS, MATERIAL CERTIFICATION, AND PRODUCT INFORMATION) AND SHOP DRAWINGS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS SECTION 100-05 FOR SUBMITTAL SCHEDULE REQUIREMENTS.
3. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS FOR THE ENGINEER'S APPROVAL AT LEAST SEVEN (7) DAYS PRIOR TO ORDERING.

TRAFFIC CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL REQUIRED TRAFFIC CONTROL FOR THE PROJECT'S ACCESS LOCATIONS, INCLUDING ANY REQUIREMENTS OF TXDOT, TOWN OF ENNIS, OR ELLIS COUNTY. ALL ASSOCIATED COSTS ARE INCIDENTAL TO CONSTRUCTION AND WILL NOT BE PAID SEPARATELY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ANY AND ALL TRAFFIC CONTROL DEVICES.

MATERIAL SUPPLY AND DISPOSAL

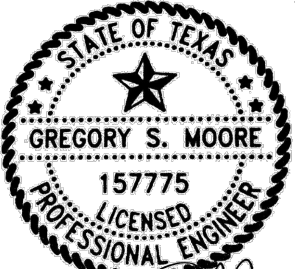
1. ALL MATERIALS MUST BE OBTAINED FROM AN UNDESIGNATED SOURCE UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR SPECIFICATIONS.
2. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE AIRPORT PROPERTY AT NO COST TO THE SPONSOR UNLESS OTHERWISE DIRECTED BY THE SPONSOR.

WORKING NEAR STRUCTURES

1. THE STRUCTURES SHOWN OR DEFINED IN THE CONTRACT DOCUMENTS AND PLANS HAVE BEEN DESIGNED ONLY FOR LOADS ANTICIPATED ON THE STRUCTURE DURING ITS SERVICE LIFE. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK. REQUIRED ENGINEERING MAY INCLUDE, BUT IS NOT LIMITED TO:

- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- WELD PROCEDURES
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS.

ISSUED FOR BID



5/15/2026

GREGORY S. MOORE

PE NO. 157775

5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: S.D.C.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GENERAL NOTES I

STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01
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SHEET NAME

G003

SHEET NO.

3 of 109

Printed June 5, 2026 @ 11:01 AM by: Walker, Jude
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SAFETY

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150/5370-2 (CURRENT VERSION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
2. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) CONTAINED IN THE CONTRACT DOCUMENTS AND PREPARE FOR APPROVAL BY THE ENGINEER, A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) PRIOR TO NOTICE TO PROCEED AS REQUIRED PER ADVISORY CIRCULAR (AC) 150/5370-2 (CURRENT VERSION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
3. ALL VEHICLES AND EQUIPMENT WORKING REGULARLY ON THE PROJECT SITE SHALL BE REQUIRED TO BE EQUIPPED WITH STANDARD FAA MARKINGS PER FAA ADVISORY CIRCULAR 150/5210-5 (CURRENT VERSION) OR BE ESCORTED BY A PROPERLY MARKED VEHICLE. AN ORANGE AND WHITE 3 FOOT BY 3 FOOT FAA STANDARD VEHICLE FLAG MAY BE USED DURING DAYTIME OPERATIONS OR A FLASHING BEACON MAY BE USED AT ANY TIME. FAILURE TO PROVIDE SUCH MARKINGS OR ESCORT FOR ANY EQUIPMENT INSIDE THE AIRPORT PERIMETER FENCE WILL PRECLUDE THAT EQUIPMENT FROM OPERATING ON THE PROJECT. DELAYS CAUSED DUE TO LACK OF CONFORMANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BACKUP ALARMS SHALL BE ADJUSTED FOR SURROUNDING NOISE LEVELS. TRITON HARK-ALARM OR APPROVED EQUAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
5. CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS THROUGH PROJECT SITE AT ALL TIMES. ALL ROADWAYS (TEMPORARY OR PERMANENT) SHALL BE MAINTAINED BY CONTRACTOR.

EROSION CONTROL

1. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE TEXAS PERMIT FOR STORM WATER DISCHARGE, THE STORM WATER MANAGEMENT PLAN, THE EROSION CONTROL PLAN, AND ALL REQUIREMENTS OF THE LOCAL DRAINAGE AUTHORITY.
2. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREA IS STABILIZED WITH HARD SURFACE OR LANDSCAPING.
3. CONTRACTOR SHALL MAINTAIN POSITIVE DUST CONTROL DURING THE ENTIRE PROJECT DURATION. THE METHOD OF DUST CONTROL EMPLOYED DURING ALL PHASES SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. DUST CONTROL SHALL BE EMPLOYED DURING ANY PROJECT SHUTDOWN PERIODS, WINTER OR OTHERWISE. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO THE VARIOUS ITEMS OF WORK, AND NO SEPARATE PAYMENT WILL BE MADE.
4. ANY EROSION CONTROL FACILITY DAMAGED OR DESTROYED PREMATURELY BY ANY MEANS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE SPONSOR.
5. A WATER TRUCK SHALL BE KEPT ON SITE AT ALL TIMES DURING EARTHWORK ACTIVITIES FOR DUST ABATEMENT.
6. THE STORMWATER BMPS SHOWN IN THE ISSUED FOR CONSTRUCTION EROSION CONTROL SHEETS ARE TO BE USED AS A GUIDE FOR THE CONTRACTOR WHEN DEVELOPING HIS/HER STORMWATER MANAGEMENT PLAN. FIELD CONDITIONS MAY WARRANT MORE, LESS OR DIFFERENT BMP INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A STORMWATER AND EROSION CONTROL PLAN THAT MEETS ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS ASSOCIATED WITH THE STORMWATER PERMIT.
7. SILT AND SEDIMENT SHALL BE REMOVED AFTER EACH SUBSTANTIAL RAINFALL..
8. NEGATIVE IMPACTS TO DOWNSTREAM AREAS CAUSED BY GRADING ARE TO BE MONITORED AND CORRECTED BY THE CONTRACTOR. ANY OFF-SITE CLEAN-UP, DIRECTED BY THE PUBLIC WORKS INSPECTOR, (INCLUDING STREET CLEANING), SHALL BE COMPLETED WITHIN 24-HOURS OF WRITTEN INSTRUCTION OR RISK CONSTRUCTION STOPPAGE.
9. TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL SUCH TIME AS ALL TRIBUTARY-DISTURBED AREAS ARE SUFFICIENTLY STABILIZED IN THE OPINION OF THE PUBLIC WORKS INSPECTOR OR RPR TO MINIMIZE EROSION POTENTIAL.

10. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE AND OTHER PUBLIC FACILITIES.
11. ALL AREAS FOR SEEDING SHALL BE TILLED TO BREAK UP ROOTING RESTRICTIVE LAYERS. HAVE A MINIMUM OF 4" OF TOPSOIL REAPPLIED. AND THEN BE HARROWED, THEN ROLLED OR PACKED TO PREPARE THE REQUIRED FIRM SEED BED.

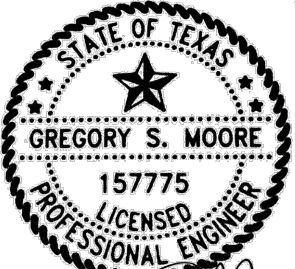
QUANTITIES

1. ALL STATED QUANTITIES ARE CONSIDERED APPROXIMATE. ACTUAL QUANTITIES WILL BE DETERMINED BY THE RPR FROM WORK IN-PLACE.
2. ACTUAL RATES OF APPLICATION WILL BE DETERMINED BY THE ENGINEER.
3. ALL PAVEMENT REMOVAL SHALL BE MEASURED AND PAID TO NEAT LINE DIMENSIONS.
4. IF THE CONTRACTOR CHOOSES TO OVERBUILD PAVEMENT LAYERS BEYOND THE DIMENSIONS SHOWN ON THE PLANS FOR CONSTRUCTABILITY, NO PAYMENT WILL BE MADE FOR THIS ADDITIONAL MATERIAL.
5. PIPE LENGTHS SHOWN ON PLANS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

SURVEY

1. ALL SURVEY PROVIDED TO THE ENGINEER FOR PRE-CONSTRUCTION SURVEYS AND VERIFICATION SURVEYS SHALL BE PROVIDED ELECTRONICALLY AND SHALL INCLUDE POINT NUMBERS, NORTHING, EASTINGS, ELEVATIONS, AND DESCRIPTIONS (PNEZD, COMMA DELINEATED FORMAT).
2. DAILY FIELD SURVEY NOTES SHALL BE GIVEN TO THE ENGINEER SO THAT PERIODIC CHECKS FOR CONFORMANCE WITH PLAN GRADES, ALIGNMENTS, AND GRADE TOLERANCES CAN BE REVIEWED.
3. THE HORIZONTAL AND VERTICAL COORDINATES ARE BASED ON THE HORIZONTAL DATUM NAD 83 AND VERTICAL DATUM NAV 88.

ISSUED FOR BID


Gregory S. Moore
5/15/2026

GREGORY S. MOORE

PE NO. 157775

5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001





ENNIS MUNICIPAL
AIRPORT

DES: S.D.C.	ISSUE RECORD			
DR: J.K.W.	NO.	BY	DATE	DESCRIPTION
	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GENERAL NOTES II

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G004

SHEET NO.
4 of 109

MASTER LEGEND					
SITE		COMMUNICATIONS			
EXISTING PAVEMENT EXISTING CENTERLINE 6590 EXISTING MAJOR CONTOUR 6589 EXISTING MINOR CONTOUR EXISTING SWALE FLOW LINE X EXISTING FENCE EXISTING FENCE (BARBED WIRE) EXISTING FENCE (SPLIT RAIL) EXISTING GUARD RAIL EXISTING PROPERTY LINE ROW EXISTING RIGHT-OF-WAY LINE EXISTING EASEMENT LINE EXISTING LEASE LINE XXXXXX REMOVE ITEM ABANDON ITEM EXISTING ASPHALT PAVEMENT 4 2 EXISTING CONCRETE PAVEMENT EXISTING GRAVEL AREA EXISTNG ASPHALT MILLINGS AREA EXISTING WETLAND AREA EXISTING BUILDING EXISTING PAINT MARKING EXISTING WAY FINDING SIGN EXISTING SURVEY MONUMENT SINGLE GATE GATE CONTROLER AIRCRAFT TIE DOWN FENCE POST DOUBLE GATE CARD READER		EXISTING CABLE LINE EXISTING COMMUNICATION LINE EXISTING FIBER OPTIC LINE EXISTING TELEPHONE LINE EXISTING CABLE MANHOLE EXISTING CABLE PEDESTAL EXISTING FIBER OPTIC MANHOLE EXISTING TELEPHONE JUNCTION BOX EXISTING TELEPHONE POLE EXISTING TELEPHONE MANHOLE EXISTING TELEPHONE PEDESTAL		SANITARY SEWER	
EL		STORM SEWER & UNDERDRAIN			
EXISTING ELECTRICAL LINE EXISTING ELECTRICAL DUCT (CE) EXISTING ELECTRICAL DUCT (DEB) EXISTING TAXIWAY GUIDANCE SIGN EXISTING RUNWAY EDGE LIGHT (IN PAVEMENT) EXISTING RUNWAY END LIGHT (IN PAVEMENT) EXISTING RUNWAY CENTER LIGHT EXISTING TAXIWAY EDGE LIGHT (IN PAVEMENT) EXISTING TAXIWAY CENTER LIGHT EXISTING TAXIWAY EDGE REFLECTOR (IN PAVE.) EXISTING L-824C CONDUCTOR (1) EXISTING CIRCUIT INDICATOR EXISTING ELECTRIC VAULT EXISTING ELECTRICAL HANDHOLE EXISTING PAD MOUNTED TRANSFORMER EXISTING GROUND ROD EXISTING ELECTRIC METER X X EXISTING SINGLE PARKING LOT LIGHT EXISTING STREET LIGHT EXISTING RUNWAY DISTANCE REMAINING SIGN X X EXISTING RUNWAY EDGE LIGHT (ELEVATED) EXISTING RUNWAY END LIGHT (ELEVATED) EXISTING RUNWAY GUARD LIGHT EXISTING TAXIWAY EDGE LIGHT (ELEVATED) EXISTING APRON FLOODLIGHT EXISTING TAXIWAY EDGE REFLECTOR (ELEVATED) EXISTING L-824C CONDUCTORS (2) EXISTING POWER MARKER EXISTING ELECTRICAL MANHOLE EXISTING ELECTRICAL JUNCTION BOX EXISTING TRANSFORMER BANK EXISTING POWER POLE EXISTING ELECTRIC POWER FRAME EXISTING ELECTRIC VAULT X X EXISTING DOUBLE PARKING LOT LIGHT		WATER & IRRIGATION			
FUEL		ABBREVIATIONS			
EXISTING JET FUEL UNDERGROUND PIT EXISTING JET FUEL VAULT EXISTING JET FUEL LINE		ABANDONED ACRE AIRPORT DESIGN GROUP AIRPORT RESCUE AND FIRE FIGHTING AIRPORT OPERATIONS AREA BEST MANAGEMENT PRACTICES BEGINNING POINT OF ALIGNMENT CURVE CENTERLINE CUBIC YARD DELTA ANGLE DO NOT DISTURB DUCTILE IRON PIPE DIRTY INDUSTRIAL WASTE EASTING COORDINATE EACH ELECTRICAL DUCT BANK EACH FACE EL ELEVATION ELECTRICAL LINES EDGE OF PAVEMENT ENDING POINT OF ALIGNMENT EACH WAY FEDERAL AVIATION ADMINISTRATION FLARED END SECTION FLIGHT INFORMATION DUCT (FAA) FIXED OR MOVEABLE OBJECT GALLON HIGH DENSITY POLYETHYLENE PIPE INSIDE DIAMETER INSTRUMENT LANDING SYSTEM INVERT INTERSECTION JET FUEL DISTRIBUTION LENGTH LINEAL FEET LOW LEVEL WIND SHEAR ALERT SYSTEM LUMP SUM THOUSAND GALLON MANHOLE MONTH NORTHING COORDINATE NATURAL GAS NUMBER NATIONAL OCEANOGRAPHIC & ATMOSPHERIC ADMINISTRATION NOT IN THIS CONTRACT NOTICE TO PROCEED NOT TO SCALE ON CENTER OVERHEAD LINES OFFSET FROM ALIGNMENT OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION ELECTRICAL PULL BOX POINT OF CURVATURE POINT OF REVERSE CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION PERFORATED UNDERDRAIN PIPE POINT OF TANGENT POINT OF VERTICAL CURVATURE POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENT RADIUS REINFORCED CONCRETE PIPE RUNWAY OBJECT FREE AREA RUNWAY PROTECTION ZONE RUNWAY SAFETY AREA RUNWAY SANITARY SEWER (FORCE MAIN) SANITARY SEWER (GRAVITY) STORM WATER DRAINAGE (GRAVITY) SQUARE FEET SHEET SAND/OIL INTERCEPTOR SPACES STATION STEEL SQUARE YARD TO BE REMOVED TO BE REMOVED AND REPLACED TYPE 1 DE-ICING FLUID TAXIWAY TAXIWAY OBJECT FREE AREA TAXIWAY SAFETY AREA TYPICAL UNDERGROUND UNDERDRAIN MANHOLE VERTICAL CURVE VEHICLE SERVICE ROAD WASTE WATER MANAGEMENT WELDED WIRE FABRIC TEXAS DEPARTMENT OF TRANSPORTATION ENNIS MUNICIPAL AIRPORT			

ISSUED FOR BID

STATE OF TEXAS

GREGORY S. MOORE

157775

PROFESSIONAL ENGINEER

Gregory S. Moore

5/15/2026

GREGORY S. MOORE

PE NO. 157775

5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

 WOOLPERT	 ENNIS TEXAS <i>The bluebonnet spirit of Texas</i>	ENNIS MUNICIPAL AIRPORT	DES: S.D.C.	ISSUE RECORD				RUNWAY WIDENING, TAXIWAY EXTENSION & AIRFIELD ELECTRICAL	MASTER LEGEND & ABBREVIATIONS		SHEET NAME
			DR: J.K.W.	NO. 2	BY G.S.M.	DATE 5/15/2026	DESCRIPTION ISSUED FOR BIDDING				G005
			CH: C.L.G.								SHEET NO.
			APP: G.S.M.						STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	5 of 109

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Plotted June 5, 2026 @ 11:02 AM by Walker, Jude
\\acquisitions\jv\projects\4112024 runway widening, taxiway extension, airfield electrical\F-CAD\PLANS\G00-F41.TXDOT-24-G006-SURV.dwg



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AIRPORT SURVEY CONTROL DATA

POINT NAME	PID	NORTHING	EASTING	ELEVATION	DESCRIPTION
F41 A	AB7910	6807072.72	2535626.32	479.39' (BM)	SACS - STAINLESS STEEL ROD
F41 B	AB7911	6808827.38	2535026.33	492.8' (G)	SACS - STAINLESS STEEL ROD

(BM) ELEVATION BENCHMARK, (G) GPS DERIVED ELEVATION, (P) PUBLISHED ELEVATION

RUNWAY END DATA

RW END	STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
16	1042+61.82	6809735.74	2534948.33	500.2' (G)	BRASS MON - WOOLPERT 2023
34-DTHLD	1005+00	6806194.33	2536203.53	478.0' (G)	BRASS MON - WOOLPERT 2023
34	1002+44.29	6805954.77	2536288.44	477.0' (G)	BRASS MON - WOOLPERT 2023

(BM) ELEVATION BENCHMARK, (G) GPS DERIVED ELEVATION, (P) PUBLISHED ELEVATION

SURVEY LEGEND

-  SACS - SECONDARY AIRPORT CONTROL STATION
-  PROJECT TEMPORARY SURVEY CONTROL POINT
-  RUNWAY END MONUMENT

PROJECT DATUM STATEMENT

COORDINATE SYSTEM: NAD83(2011)
STATE PLANE ZONE: TEXAS NORTH CENTRAL ZONE 4202
UNITS: U.S. SURVEY FEET (SFT)
GEOID MODEL: GEOID18

PROJECT COORDINATES ARE STATE PLANE GRID COORDINATES.

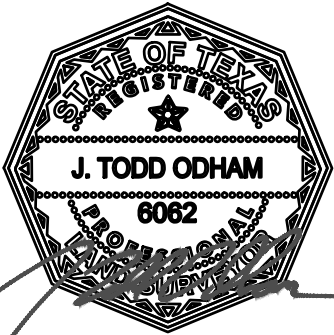
"F41 A", THE SECONDARY AIRPORT CONTROL STATION (SACS), IS TO BE HELD AS THE SITE VERTICAL BENCHMARK.
NAVD88 ELEVATION: 479.39 FT (VERTICAL BM)

LAST SURVEY WAS COMPLETED BY WOOLPERT IN NOVEMBER 2024.

SURVEY NOTES:

1. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL VERIFY AIRPORT AND PROJECT CONTROL POINTS PRIOR TO CONSTRUCTION ACTIVITIES AND REPORT DISCREPANCIES TO THE ENGINEER.
3. CONTRACTOR SHALL PROTECT AND PRESERVE THE AIRPORT SURVEY CONTROL STATIONS.
4. IF THE PROJECT TEMPORARY SURVEY CONTROL IS DISTURBED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING NEW TEMPORARY CONTROL POINTS AS NECESSARY.

ISSUED FOR BID



J. TODD ODHAM RPLS NO. 6062 5/14/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: S.D.C.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PROJECT LAYOUT AND
SURVEY CONTROL PLAN

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

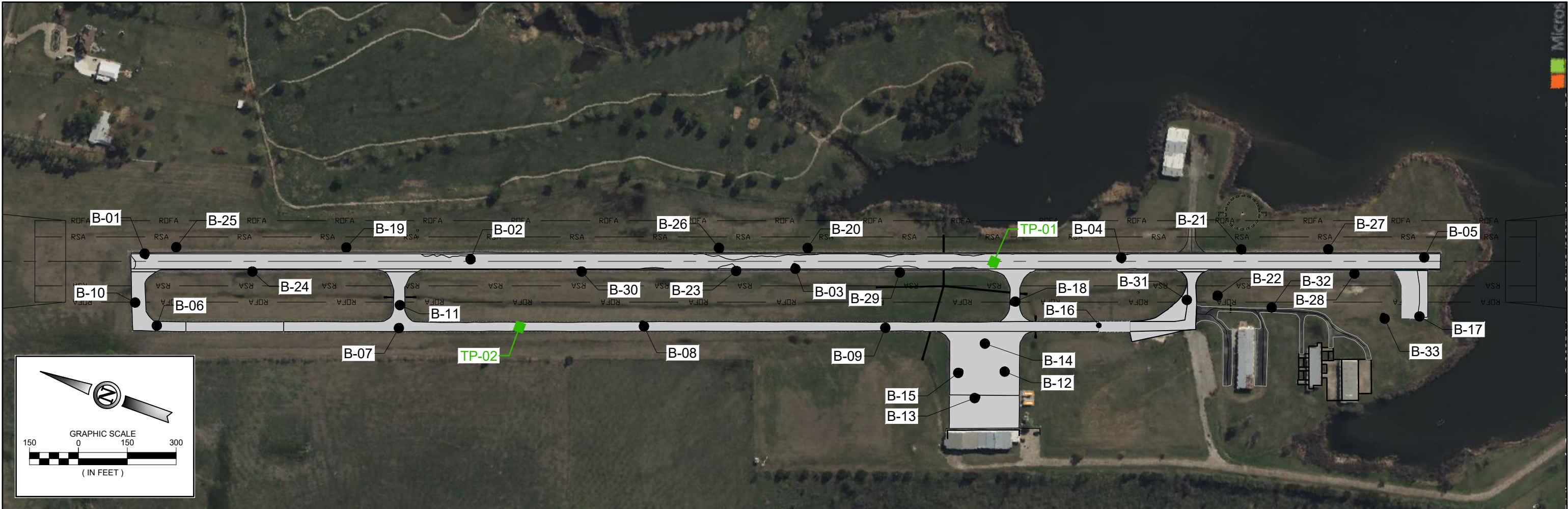
WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G006

SHEET NO.

6 of 109



BORE NO.	LOCATION.	LONGITUDE	LATITUDE
B-01	RW 16/34	N 32° 20' 05.40"	W 96° 39' 57.15"
B-02	RW 16/34	N 32° 19' 56.03"	W 96° 39' 53.64"
B-03	RW 16/34	N 32° 19' 46.64"	W 96° 39' 50.10"
B-04	RW 16/34	N 32° 19' 37.26"	W 96° 39' 46.20"
B-05	RW 16/34	N 32° 19' 28.60"	W 96° 39' 42.75"
B-06	PARALLEL TAXIWAY	N 32° 20' 04.42"	W 96° 39' 59.45"
B-07	PARALLEL TAXIWAY	N 32° 19' 57.41"	W 96° 39' 56.61"
B-08	PARALLEL TAXIWAY	N 32° 19' 50.46"	W 96° 39' 53.77"
B-09	PARALLEL TAXIWAY	N 32° 19' 43.42"	W 96° 39' 51.08"
B-10	CONNECTOR TAXIWAY	N 32° 20' 05.19"	W 96° 39' 58.84"
B-11	CONNECTOR TAXIWAY	N 32° 19' 57.69"	W 96° 39' 55.90"
B-12	APRON	N 32° 19' 36.64"	W 96° 39' 51.29"
B-13	APRON	N 32° 19' 40.10"	W 96° 39' 52.46"
B-14	APRON	N 32° 19' 40.48"	W 96° 39' 50.57"
B-15	APRON	N 32° 19' 40.84"	W 96° 39' 51.78"
B-16	PARALLEL TAXIWAY	N 32° 19' 37.30"	W 96° 39' 48.66"
B-17	EXTENDED AREA WEST OF RW 34 END	N 32° 19' 37.30"	W 96° 39' 48.66"
B-18	CONNECTOR TAXIWAY	N 32° 19' 37.30"	W 96° 39' 48.66"

BORE NO.	LOCATION.	LONGITUDE	LATITUDE
B-19	RUNWAY SHOULDER	N 32° 19' 59.75"	W 96° 39' 54.65"
B-20	RUNWAY SHOULDER	N 32° 19' 46.45"	W 96° 39' 49.43"
B-21	RUNWAY SHOULDER	N 32° 19' 33.86"	W 96° 39' 44.52"
B-22	RUNWAY SHOULDER	N 32° 19' 34.22"	W 96° 39' 46.39"
B-23	RUNWAY SHOULDER	N 32° 19' 48.22"	W 96° 39' 50.85"
B-24	RUNWAY SHOULDER	N 32° 20' 02.26"	W 96° 39' 56.41"
B-25	RUNWAY SHOULDER	N 32° 20' 04.64"	W 96° 39' 56.57"
B-26	RUNWAY SHOULDER	N 32° 19' 48.91"	W 96° 39' 50.40"
B-27	RUNWAY SHOULDER	N 32° 19' 31.45"	W 96° 39' 43.56"
B-28	RUNWAY SHOULDER	N 32° 19' 30.42"	W 96° 39' 43.92"
B-29	RUNWAY SHOULDER	N 32° 19' 43.54"	W 96° 39' 49.04"
B-30	RUNWAY SHOULDER	N 32° 19' 52.78"	W 96° 39' 52.66"
B-31	CONNECTOR TAXIWAY	N 32° 19' 34.94"	W 96° 39' 46.82"
B-32	EXISTING PAVEMENT SOUTH OF TAXIWAY	N 32° 19' 32.52"	W 96° 39' 46.18"
B-33	PROPOSED TAXIWAY	N 32° 19' 29.21"	W 96° 39' 45.10"
TP-01	RUNWAY 16/34	N 32° 19'40.94"	W 96° 39' 47.79"
TP-02	PARALLEL TAXIWAY	N 32° 19' 53.96"	W 96° 39' 55.21"
ALL LOCATIONS ARE APPROXIMATE			

GEOTECHNICAL INVESTIGATION NOTES

1. FIELD INVESTIGATION COMPLETED ON 07/01/2025 BY RODRIGUEZ ENGINEERING LABORATORIES.
2. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. REFER TO CONSTRUCTION SAFETY PLAN FOR SAFETY REQUIREMENTS.
4. THE BORING INFORMATION PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING EXISTING CONDITIONS AS NECESSARY PRIOR TO THE START OF CONSTRUCTION.

GEOTECHNICAL LEGEND

- B-01 BORE HOLE LOCATION
- C-01 PAVEMENT CORE HOLE LOCATION
- TP-01 TEST PIT EXCAVATION LOCATION

ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
PLAN

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G020

SHEET NO.

7 of 109

Bore Log Data
Boring No. 1

Project: Ennis Municipal Airport
Location: Runway 16-34 at 32°20'5.40"N; 96°39'57.15"W
Date Drilled: 4/30/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
0.5		C-1	6-1/2" HMAc		C												0.5
1.0		B1S1	7-1/2" BASE. Dark Brown, Poorly Graded GRAVEL with Sand	GP	A	5.9	Non-Plastic		100.0	100.0	99.2	74.1	49.4	24.4	2.5	0.6	1.0
1.5		B1S2	Brown, Poorly Graded SAND with Silt and Gravel	SP - SM	A	5.2	16	3	100.0	100.0	100.0	78.5	65.6	49.7	18.9	10.0	1.5
2.0																	2.0
2.5																	2.5
3.0		B1S3	Dark Brown, Fat CLAY with Sand	CH	A	21.0	59	39	100.0	100.0	100.0	100.0	99.8	96.5	95.2	83.7	3.0
3.5																	3.5
4.0																	4.0
4.5		B1S4	Brown, Fat CLAY	CH	A	20.7	57	41	100.0	100.0	100.0	100.0	99.9	99.5	98.3	90.4	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-1

Bore Log Data
Boring No. 2

Project: Ennis Municipal Airport
Location: Runway 16-34 at 32°19'56.03"N; 96°39'53.64"W
Date Drilled: 4/30/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
0.5		C-2	9-7/8" HMAc		C												0.5
1.0		B2S1	4-1/8" BASE. Dark Brown, Poorly Graded GRAVEL with Sand	GP	A	9.7	24	8	100.0	98.4	93.3	58.4	26.2	9.8	3.8	2.3	1.0
1.5		B2S2	Dark Brown, Poorly Graded GRAVEL with Sand	GP	A	4.2	Non-Plastic		100.0	100.0	100.0	74.2	44.3	23.9	10.7	3.8	1.5
2.0																	2.0
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5		B2S3	Dark Brown, Fat CLAY	CH	A	23.6	54	38	100.0	100.0	100.0	100.0	99.9	99.2	98.0	89.5	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-2

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS I

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G021

SHEET NO.

8 of 109

Bore Log Data
Boring No. 3

Project: Ennis Municipal Airport
Location: Runway 16-34 at 32°19'46.64"N; 96°39'50.10"W
Date Drilled: 4/30/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
0.5		C-3	9" HMA (Only 6" of the core was retrieved. The bottom 3" of the core was broken apart and was not retrieved by the core bit)		C												0.5
1.0		B3S1	8-1/2" BASE, Dark Brown, Poorly Graded SAND with Gravel	SP	A	4.7	Non-Plastic		100.0	98.4	93.6	75.6	51.5	30.7	9.6	1.1	1.0
1.5		B3S2	Very Dark Gray, Poorly Graded GRAVEL with Sand	GP	A	7.3	Non-Plastic		100.0	87.8	77.3	40.3	19.1	7.6	3.3	1.4	1.5
2.0																	2.0
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0		B3S3	Very Dark Gray, Lean CLAY with Sand	CL	A	22.3	43	27	100.0	100.0	100.0	100.0	99.8	99.6	98.9	73.4	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-3

Bore Log Data
Boring No. 4

Project: Ennis Municipal Airport
Location: Runway 16-34 at 32°19'37.26"N; 96°39'46.20"W
Date Drilled: 4/30/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
0.5		C-4	6-3/4" HMA		C												0.5
1.0		B4S1	5-1/4" BASE, Light Brown, Silty GRAVEL with Sand	GM	A	7.0	Non-Plastic		100.0	85.0	75.0	48.5	37.1	28.1	18.8	12.7	1.0
1.5		B4S2	Gray, Sandy Lean CLAY	CL	A	20.7	36	23	100.0	100.0	100.0	100.0	99.5	98.7	97.3	65.6	1.5
2.0																	2.0
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0		B4S3	Gray, Sandy Fat CLAY	CH	A	20.4	53	38	100.0	100.0	100.0	97.9	96.8	95.4	93.6	69.5	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-4

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS II

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G022
SHEET NO.
9 of 109

Bore Log Data
Boring No. 5

Project: Ennis Municipal Airport
Location: Runway 16-34 at 32°19'28.60"N; 96°39'42.75"W
Date Drilled: 4/30/2025

Boring Depth: 5 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
		Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
	C-5	5-1/2" HMA (Only 3-1/2" of the core was retrieved. The bottom 2" of the core was broken apart and was not retrieved by the core bit)		C												
0.5	B5S1	6-1/2" BASE, Light Brown, Silty GRAVEL with Sand	GM	A	8.4	Non-Plastic		100.0	92.7	89.4	67.3	55.4	45.9	30.0	19.4	0.5
1.0	B5S2	Gray, Sandy Lean CLAY	CL	A	23.4	40	23	100.0	100.0	100.0	100.0	99.5	98.7	97.1	68.3	1.0
1.5																1.5
2.0																2.0
2.5																2.5
3.0																3.0
3.5																3.5
4.0	B5S3	Gray, Fat CLAY with Sand	CH	A	23.7	53	38	100.0	100.0	100.0	99.7	98.7	98.1	97.3	70.8	4.0
4.5																4.5
5.0																5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-5

Bore Log Data
Boring No. 6

Project: Ennis Municipal Airport
Location: Parallel Taxiway at 32°20'4.42"N; 96°39'59.45"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
		Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
	C-6	4-1/2" HMA		C												
0.5	B6S1	6" BASE, Brown, Silty Sand with Gravel		A	4.7			100.0	100.0	98.8	64.7	34.5	26.5	18.5	11.1	0.5
1.0																1.0
1.5	B6S2	Dark Brown, Fat CLAY	CH	A	25.9	66	51	100.0	100.0	100.0	99.7	99.6	98.6	96.1	86.7	1.5
2.0																2.0
2.5																2.5
3.0	B6S3	Brown, Fat CLAY	CH	A	24.9	68	53	100.0	100.0	100.0	99.6	99.4	98.8	97.7	91.6	3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-6

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS III

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G023
SHEET NO.
10 of 109

Bore Log Data
Boring No. 7

Project: Ennis Municipal Airport
Location: Parallel Taxiway at 32°19'57.41"N; 96°39'56.61"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-7	6" HMAC		C												
0.5		B7S1	6" BASE, Dark Brown, Clayey SAND with Gravel	SC	A	8.6	25	19	100.0	100.0	97.4	78.4	70.1	60.4	39.4	25.4	0.5
1.0		B7S2	Dark Brown, Fat CLAY	CH	A	24.0	57	44	100.0	100.0	100.0	100.0	99.1	97.9	95.2	85.3	1.0
1.5																	1.5
2.0																	2.0
2.5																	2.5
3.0		B7S3	Dark Brown, Fat CLAY	CH	A	24.4	81	69	100.0	100.0	100.0	99.7	99.5	98.9	97.3	89.7	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-7

Bore Log Data
Boring No. 8

Project: Ennis Municipal Airport
Location: Parallel Taxiway at 32°19'50.46"N; 96°39'53.77"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-8	6-7/8" HMAC		C												
0.5																	0.5
1.0		B8S1	6-5/8" BASE, Brown, Poorly Graded GRAVEL with Clay and Sand (or Silty Clay and Sand)	GP - GC	A	6.8	18	6	100.0	84.9	77.0	51.2	38.7	31.7	25.0	11.2	1.0
1.5		B8S2	Dark Brown, Fat CLAY with Sand	CH	A	28.8	61	43	100.0	100.0	100.0	100.0	99.6	97.0	91.7	76.0	1.5
2.0																	2.0
2.5																	2.5
3.0		B8S3	Brown, Fat CLAY	CH	A	27.1	63	50	100.0	100.0	100.0	100.0	99.7	99.2	97.7	89.9	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-8

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS IV

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G024

SHEET NO.

11 of 109

Bore Log Data
Boring No. 9

Project: Ennis Municipal Airport
Location: Parallel Taxiway at 32°19'43.42"N; 96°39'51.08"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-9	5" HMAG		C												
0.5		B9S1	8" BASE. Brown, Poorly Graded GRAVEL with Silt and Sand	GP - GM	A	7.5	Non-Plastic		100.0	44.1	42.9	28.3	21.7	18.4	15.1	8.5	0.5
1.0		B9S2	Brown, Silty SAND	SM	A	27.5	Non-Plastic		100.0	100.0	100.0	97.1	88.3	67.9	41.4	15.7	1.0
2.5		B9S3	Dark Brown, Fat CLAY with Sand	CH	A	24.7	57	46	100.0	100.0	100.0	99.4	99.2	98.6	97.6	82.4	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-9

Bore Log Data
Boring No. 10

Project: Ennis Municipal Airport
Location: Connector Taxiway at 32°20'5.19"N; 96°39'58.84"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-10	6-3/4" HMAG		C												
0.5																	0.5
1.0		B10S1	6-1/4" BASE. Brown, Poorly Graded GRAVEL with Clay and Sand (or Silty Clay and Sand)	GP - GC	A	4.6	17	6	100.0	100.0	100.0	64.5	49.1	34.6	18.1	10.8	1.0
1.5		B10S2	Dark Brown, Sandy Fat CLAY	CH	A	29.8	71	55	100.0	100.0	100.0	99.5	98.8	91.7	81.2	67.4	1.5
2.5																	2.5
3.0		B10S3	Brown, Fat CLAY	CH	A	23.5	81	44	100.0	100.0	100.0	100.0	99.8	98.6	95.5	88.8	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-10

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS V

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G025
SHEET NO.
12 of 109

Bore Log Data
Boring No. 11

Project: Ennis Municipal Airport
Location: Connector Taxiway at 32°19'57.69"N; 96°39'55.90"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-11	4-7/8" HMAC		C												
0.5		B11S1	6-5/8" BASE, Brown, Silty GRAVEL with Sand	GM	A	7.4	Non-Plastic		100.0	88.2	80.4	59.0	45.9	37.5	30.1	14.6	0.5
1.0		B11S2	Very Dark Gray, Fat CLAY with Sand	CH	A	32.1	70	45	100.0	100.0	100.0	100.0	98.9	95.0	86.7	74.2	1.0
1.5																	1.5
2.0																	2.0
2.5																	2.5
3.0		B11S3	Brown, Fat CLAY with Sand	CH	A	25.3	92	77	100.0	100.0	100.0	99.8	99.7	99.3	95.2	83.8	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-11

Bore Log Data
Boring No. 12

Project: Ennis Municipal Airport
Location: Apron at 32°19'39.64"N; 96°39'51.29"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-12	2-3/4" HMAC		C												
0.5		B12S1	11-1/4" BASE, Brown, Poorly Graded GRAVEL with Clay and Sand (or Silty Clay and Sand)	GP-GC	A	6.4	20	9	100.0	77.9	69.1	39.8	24.2	17.6	14.4	6.5	0.5
1.0																	1.0
1.5		B12S2	Dark Brown, SILT	ML	A	22.5	Non-Plastic		100.0	100.0	100.0	99.9	99.7	99.0	97.8	86.0	1.5
2.0																	2.0
2.5																	2.5
3.0		B12S3	Dark Brown, Fat CLAY with Sand	CH	A	29.0	52	40	100.0	100.0	100.0	97.1	95.6	93.7	91.4	76.4	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-12

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS VI

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G026
SHEET NO.
13 of 109

Bore Log Data
Boring No. 13

Project: Ennis Municipal Airport
Location: Apron at 32°19'40.10"N; 96°39'52.46"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-13	2-1/2" HMAC		C												
0.5		B13S1	11" BASE. Brown, Poorly Graded GRAVEL with Clay and Sand (or Silty Clay and Sand)	GP - GC	A	6.8	15	6	100.0	90.1	82.5	54.1	39.3	29.1	21.7	9.8	0.5
1.0																	1.0
1.5		B13S2	Dark Brown, SILT with Sand	ML	A	26.9	Non-Plastic		100.0	100.0	100.0	100.0	99.7	98.0	94.3	79.3	1.5
2.0																	2.0
2.5																	2.5
3.0		B13S3	Dark Brown, Fat CLAY with Sand	CH	A	20.0	55	44	100.0	100.0	100.0	99.4	98.4	97.5	96.2	84.0	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-13

Bore Log Data
Boring No. 14

Project: Ennis Municipal Airport
Location: Apron at 32°19'40.48"N; 96°39'50.57"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-14	3-1/4" HMAC		C												
0.5		B14S1	9-3/4" BASE. Brown, Poorly Graded GRAVEL with Clay and Sand (or Silty Clay and Sand)	GP - GC	A	8.4	18	6	100.0	85.4	78.9	56.6	43.5	31.8	23.3	10.5	0.5
1.0																	1.0
1.5		B14S2	Dark Brown, Lean CLAY	CL	A	28.6	49	35	100.0	100.0	100.0	100.0	99.6	98.7	97.0	86.5	1.5
2.0																	2.0
2.5																	2.5
3.0		B14S3	Dark Brown, Lean CLAY	CL	A	23.9	49	40	100.0	100.0	100.0	100.0	99.9	99.0	97.8	85.3	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-14

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ENNIS MUNICIPAL
AIRPORT

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DR:				
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APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS VII

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G027
SHEET NO.
14 of 109

Bore Log Data
Boring No. 15

Project: Ennis Municipal Airport
Location: Apron at 32°19'40.48"N; 96°39'51.78"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-15	3-3/8" HMAC		C												
0.5		B15S1	9-5/8" BASE, Brown, Clayey GRAVEL with Sand	GC	A	11.4	20	10	100.0	96.2	80.1	64.1	49.0	38.9	29.5	14.9	0.5
1.0																	1.0
1.5		B15S2	Dark Brown, Lean CLAY with Sand	CL	A	24.7	46	34	100.0	100.0	100.0	99.7	98.5	98.4	93.0	74.0	1.5
2.0																	2.0
2.5																	2.5
3.0		B15S3	Dark Brown, Fat CLAY	CH	A	22.9	58	47	100.0	100.0	100.0	99.7	99.1	98.4	97.2	85.1	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

Boring terminated at 5 ft. No groundwater was encountered.

A-15

Bore Log Data
Boring No. 16

Project: Ennis Municipal Airport
Location: Parallel Taxiway at 32°19'37.30"N; 96°39'48.66"W
Date Drilled: 5/21/2025

Boring Depth: 1.5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-16	4-1/2" HMAC		C												
0.5		B16S1	7" BASE, Brown, Clayey SAND with Gravel	SC	A	3.6	17	9	100.0	100.0	100.0	95.7	83.0	64.2	34.7	15.1	0.5
1.0		B16S2	Brown, Clay with Sand		A		50	38									1.0
1.5																	1.5
2.0			Boring terminated at 1.5 ft due to auger refusal. No groundwater was encountered.														
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-16

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS VIII

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G028
SHEET NO.
15 of 109

Bore Log Data
Boring No. 17

Project: Ennis Municipal Airport
Location: Extended area West of Runway 34-End at 32°19'28.23"N; 96°39'44.70"W
Date Drilled: 5/21/2025

Boring Depth: 5 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-17	5" HMAC		C												
0.5		B17S1	7" BASE, Very Dark Gray, Poorly Graded SAND with Gravel	SP	A	4.8	Non-Plastic		100.0	100.0	100.0	91.3	51.4	22.0	7.5	1.1	0.5
1.0		B17S2	Very Dark Gray, Sandy Lean CLAY	CL	A	18.2	30	16	100.0	100.0	100.0	99.6	99.2	98.0	96.6	56.7	1.0
3.5		B17S3	Very Dark Gray, Sandy Fat CLAY	CH	A	21.8	55	41	100.0	100.0	100.0	100.0	99.9	99.6	99.2	88.0	3.5

Boring terminated at 5 ft. No groundwater was encountered.

A-17

Bore Log Data
Boring No. 18

Project: Ennis Municipal Airport
Location: Connector Taxiway at 32°19'40.01"N; 96°39'48.88"W
Date Drilled: 5/21/2025

Boring Depth: 0.9 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-18	4-3/4" HMAC		C												
0.5		B18S1	6" BASE, Brown, Poorly Graded SAND with Silt and Gravel	SP - SM	A	7.7	Non-Plastic		100.0	100.0	94.7	61.5	67.9	48.8	29.6	10.7	0.5
1.0			Boring terminated at 0.9 ft due to auger refusal. No groundwater was encountered.														1.0

A-18

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS IX

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G029
SHEET NO.
16 of 109

Bore Log Data
Boring No. 19

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'59.75"N; 96°39'54.65"W
Date Drilled: 5/22/2025

Boring Depth: 2 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)	
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200		
		C-19	3-7/8" HMAc		C													
0.5		B19S1	Dark Brown, Fat CLAY with Sand	CH	A	29.8	54	41	100.0	100.0	100.0	98.7	97.9	98.3	91.7	76.7		0.5
1.0																		1.0
1.5		B19S2	Very Dark Gray, Fat CLAY	CH	A	4.7	63	50	100.0	100.0	100.0	99.4	99.2	99.0	98.4	90.8		1.5
2.0																		2.0
2.5			Boring terminated at 2 ft. No groundwater was encountered.															2.5
3.0																		3.0
3.5																		3.5
4.0																		4.0
4.5																		4.5
5.0																		5.0

A-19

Bore Log Data
Boring No. 20

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'46.54"N; 96°39'49.43"W
Date Drilled: 5/22/2025

Boring Depth: 2 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing										Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200			
		C-20	3-1/4" HMAc		C														
0.5		B20S1	Dark Brown, Lean CLAY with Sand	CL	A	26.8	46	34	100.0	100.0	100.0	99.7	98.4	95.9	91.3	71.2			0.5
1.0		B20S2	Very Dark Gray, Lean CLAY with Sand	CL	A	22.2	46	34	100.0	100.0	100.0	100.0	99.7	99.3	98.7	83.0			1.0
1.5																			1.5
2.0																			2.0
Boring terminated at 2 ft. No groundwater was encountered.																			
2.5																			2.5
3.0																			3.0
3.5																			3.5
4.0																			4.0
4.5																			4.5
5.0																			5.0

A-20

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
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APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS X

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G030

SHEET NO.

17 of 109

Bore Log Data
Boring No. 21

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'33.86"N; 96°39'44.52"W
Date Drilled: 5/22/2025

Boring Depth: 2 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-21	3-5/8" HMA/C		C												
0.5		B21S1	Brown, Clayey SAND	SC	A	29.0	42	24	100.0	100.0	97.8	94.8	92.5	88.3	75.1	30.0	0.5
1.0		B21S2	Very Dark Gray, Sandy Lean CLAY	CL	A	19.7	41	30	100.0	100.0	100.0	100.0	99.7	99.2	98.3	63.8	1.0
1.5																	1.5
2.0																	2.0
Boring terminated at 2 ft. No groundwater was encountered.																	
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-21

Bore Log Data
Boring No. 22

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'34.22"N; 96°39'45.39"W
Date Drilled: 5/22/2025

Boring Depth: 2 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-22	3-1/2" HMA/C		C												
0.5		B22S1	Brown, Poorly Graded SAND with Clay and Gravel (or Silty Clay and Gravel)	SP - SC	A	22.8	52	34	100.0	94.1	92.2	87.5	75.5	57.8	34.9	7.1	0.5
1.0		B22S2	Brown, Clayey SAND with Gravel	SC	A	14.0	26	14	100.0	100.0	98.0	90.9	82.3	71.7	59.3	28.5	1.0
1.5																	1.5
2.0																	2.0
Boring terminated at 2 ft. No groundwater was encountered.																	
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-22

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XI

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G031
SHEET NO.
18 of 109

Bore Log Data
Boring No. 23

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'48.22"N; 96°39'50.85"W
Date Drilled: 5/22/2025

Boring Depth: 2 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-23	3" HMAG		C												
0.5		B23S1	Brown, Sandy Lean CLAY	CL	A	26.4	41	27	100.0	100.0	100.0	99.2	96.8	92.9	82.9	59.7	0.5
1.0		B23S2	Dark Brown, Fat CLAY with Sand	CH	A	24.6	55	43	100.0	100.0	100.0	100.0	98.4	96.3	93.8	82.1	1.0
1.5																	1.5
2.0																	2.0
Boring terminated at 2 ft. No groundwater was encountered.																	
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-23

Bore Log Data
Boring No. 24

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°20'2.26"N; 96°39'56.41"W
Date Drilled: 5/22/2025

Boring Depth: 2 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-24	3-5/8" HMAG		C												
0.5		B24S1	Dark Brown, Fat CLAY	CH	A	27.7	67	57	100.0	100.0	100.0	100.0	99.2	98.7	97.4	87.9	0.5
1.0																	1.0
1.5		B24S2	Dark Brown, Fat CLAY	CH	A	28.1	65	54	100.0	100.0	100.0	99.3	99.0	98.8	97.3	85.4	1.5
2.0																	2.0
Boring terminated at 2 ft. No groundwater was encountered.																	
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-24

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
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APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XII

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G032

SHEET NO.

19 of 109

Bore Log Data
Boring No. 25

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°20'4.64"N; 96°39'56.57"W
Date Drilled: 5/1/2025

Boring Depth: 10 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		NS	Top Soil with Vegetation														
1.0		B25S1	Gray, Fat CLAY with Sand	CH	A	26.5	58	40	100.0	100.0	100.0	99.3	97.6	95.3	90.3	76.3	1.0
2.0																	2.0
3.0		B25S2	Brown, Fat CLAY with Sand	CH	A	22.1	55	39	100.0	100.0	100.0	99.9	99.1	97.4	94.0	81.3	3.0
4.0																	4.0
5.0																	5.0
6.0		B25S3	Yellowish Brown, Fat CLAY	CH	A	21.3	53	35	100.0	100.0	100.0	99.4	98.8	97.8	95.8	85.5	6.0
7.0																	7.0
8.0		B25S4	Yellowish Brown, Fat CLAY	CH	A	20.3	53	37	100.0	100.0	100.0	99.2	99.0	98.2	97.1	87.2	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-25

Bore Log Data
Boring No. 26

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'48.91"N; 96°39'50.40"W
Date Drilled: 5/22/2025

Boring Depth: 10 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-26	3-1/4" HMAc		C												
1.0		B26S1	Dark Brown, Sandy Fat CLAY	CH	A	26.2	51	40	100.0	98.7	98.7	96.6	93.6	90.8	86.9	69.0	1.0
2.0		B26S2	Dark Brown, Lean CLAY with Sand	CL	A	22.4	47	36	100.0	100.0	100.0	100.0	99.7	99.4	98.8	81.1	2.0
3.0		B26S3	Dark Brown, Fat CLAY with Sand	CH	A	26.1	64	52	100.0	100.0	100.0	100.0	99.7	99.4	98.8	84.2	3.0
4.0																	4.0
5.0																	5.0
6.0		B26S4	Dark Brown, Fat CLAY	CH	A	29.0	59	47	100.0	100.0	100.0	99.9	99.7	99.5	99.3	88.4	6.0
7.0																	7.0
8.0		B26S5	Dark Brown, Fat CLAY	CH	A	25.7	66	53	100.0	100.0	100.0	99.6	99.1	98.6	97.0	86.4	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-26

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

Bore Log Data
Boring No. 27

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'31.45"N; 96°39'43.56"W
Date Drilled: 5/22/2025

Boring Depth: 10 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification:		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-27	3-1/4" HMAc		C												
		B27S1	6-1/4" BASE. Light Brown, Silty SAND	SM	A	25.9	Non-Plastic		100.0	98.1	98.1	96.3	94.9	91.4	82.1	48.8	
1.0		B27S2	Brown, Fat CLAY with Sand	CH	A	19.9	55	42	100.0	100.0	100.0	99.9	99.7	99.5	98.9	72.3	1.0
2.0																	2.0
3.0		B27S3	Brown, Lean CLAY with Sand	CL	A	18.3	48	37	100.0	100.0	100.0	100.0	99.7	98.6	97.2	71.3	3.0
4.0																	4.0
5.0																	5.0
6.0		B27S4	Brown, Sandy Fat CLAY	CH	A	18.4	50	38	100.0	100.0	100.0	99.4	98.9	97.8	96.9	66.8	6.0
7.0																	7.0
8.0		B27S5	Brown, Sandy Lean CLAY	CL	A	19.6	45	36	100.0	100.0	100.0	99.3	98.9	98.2	96.8	64.0	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-27

Bore Log Data
Boring No. 28

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'30.42"N; 96°39'43.92"W
Date Drilled: 5/22/2025

Boring Depth: 10 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification:		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-28	3" HMAc		C												
		B28S1	Brown, Clayey SAND with Gravel	SC	A	27.0	50	28	100.0	100.0	100.0	94.8	83.3	64.7	40.7	13.8	
1.0		B28S2	Brown, Fat CLAY with Sand	CH	A	20.3	55	44	100.0	100.0	100.0	100.0	100.0	99.4	98.8	70.2	1.0
2.0																	2.0
3.0		B28S3	Brown, Fat CLAY with Sand	CH	A	19.9	53	38	100.0	100.0	100.0	100.0	99.4	98.6	97.2	73.0	3.0
4.0																	4.0
5.0																	5.0
6.0		B28S4	Brown, Fat CLAY with Sand	CH	A	18.4	51	37	100.0	100.0	100.0	100.0	99.6	98.8	97.2	71.1	6.0
7.0																	7.0
8.0		B28S5	Brown, Sandy Lean CLAY	CL	A	18.0	49	37	100.0	100.0	100.0	100.0	99.0	96.3	91.9	66.6	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-28

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XIV

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G034
SHEET NO.
21 of 109

Bore Log Data
Boring No. 29

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'43.54"N; 96°39'49.04"W
Date Drilled: 5/22/2025

Boring Depth: 10 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-29	3-3/8" HMAc		C												
		B29S1	Brown, Sandy Lean CLAY	CL	A	26.4	49	36	100.0	100.0	100.0	98.6	96.1	92.9	85.3	60.6	
1.0		B29S2	Brown, Fat CLAY with Sand	CH	A	21.4	52	41	100.0	100.0	100.0	100.0	99.8	99.2	98.2	80.8	1.0
2.0																	2.0
3.0		B29S3	Brown, Fat CLAY with Sand	CH	A	21.4	63	52	100.0	100.0	100.0	98.7	91.4	96.7	95.6	75.8	3.0
4.0																	4.0
5.0																	5.0
6.0		B29S4	Brown, Sandy Fat CLAY	CH	A	24.0	54	43	100.0	100.0	98.6	95.0	92.7	90.4	87.6	69.6	6.0
7.0																	7.0
8.0		B29S5	Yellowish Brown, Fat CLAY	CH	A	25.8	61	47	100.0	100.0	100.0	99.2	98.3	96.4	93.2	85.3	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-29

Bore Log Data
Boring No. 30

Project: Ennis Municipal Airport
Location: Runway Shoulder at 32°19'52.78"N; 96°39'52.66"W
Date Drilled: 5/22/2025

Boring Depth: 1.5 ft.
Water Level: N/A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-30	2" HMAc		C												
0.5		B30S1	Dark Brown, Fat CLAY with Sand	CH	A	23.0	65	53	100.0	100.0	100.0	99.0	97.9	96.5	94.2	83.1	0.5
1.0		B30S2	Dark Brown, Fat CLAY	CH	A	27.2	72	60	100.0	100.0	100.0	99.2	98.3	97.2	95.7	87.0	1.0
1.5			Boring terminated at 1.5 ft due to auger refusal. No groundwater was encountered.														1.5
2.0																	2.0
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-30

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

Bore Log Data
Boring No. 31

Project: Ennis Municipal Airport
Location: Connector Taxiway at 32°19'34.94"N; 96°39'46.82"W
Date Drilled: 5/21/2025

Boring Depth: 10 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-31	9-1/4" HMAc		C												
1.0		B31S1	5-3/4" BASE. Brown, Silty GRAVEL with Sand	GM	A	3.6	Non-Plastic		100.0	90.4	79.4	60.5	56.0	45.2	34.7	21.9	1.0
2.0		B31S2	Very Dark Grayish Brown, Sandy Fat CLAY	CH	A	22.6	55	44	100.0	100.0	100.0	99.3	98.1	96.1	93.2	69.3	2.0
3.0		B31S3	Brown, Fat CLAY with Sand	CH	A	21.1	66	55	100.0	97.5	96.5	96.5	95.7	94.0	93.0	71.0	3.0
4.0																	4.0
5.0																	5.0
6.0		B31S4	Brown, Sandy Lean CLAY	CL	A	16.7	47	36	100.0	100.0	100.0	99.7	99.0	97.5	94.7	69.4	6.0
7.0																	7.0
8.0		B31S5	Brown, Sandy Fat CLAY	CH	A	19.6	53	42	100.0	100.0	100.0	100.0	99.7	99.0	98.3	85.3	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-31

Bore Log Data
Boring No. 32

Project: Ennis Municipal Airport
Location: Existing Pavement South of Taxiway at 32°19'32.52"N; 96°39'46.18"W
Date Drilled: 5/21/2025

Boring Depth: 10 ft.
Water Level: N / A
Drilling Method: A = Auger
C = Core

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		C-32	4" HMAc		C												
1.0		B32S1	Dark Brown, Fat CLAY with Sand	CH	A	18.6	55	43	100.0	100.0	100.0	100.0	100.0	99.9	99.7	74.9	1.0
2.0		B32S2	Dark Brown, Sandy Lean CLAY	CL	A	2.2	20	10	100.0	100.0	100.0	99.7	99.2	98.7	97.6	67.5	2.0
3.0		B32S3	Dark Brown, Fat CLAY with Sand	CH	A	21.1	63	52	100.0	98.0	98.0	96.7	96.1	95.5	94.5	70.5	3.0
4.0																	4.0
5.0																	5.0
6.0		B32S4	Brown, Fat CLAY with Sand	CH	A	18.5	60	48	100.0	100.0	100.0	100.0	99.8	99.7	98.4	72.2	6.0
7.0																	7.0
8.0		B32S5	Brown, Fat CLAY with Sand	CH	A	21.0	61	49	100.0	100.0	100.0	99.6	99.5	99.0	98.2	74.1	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-32

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XVI

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G036

SHEET NO.

23 of 109

Bore Log Data
Boring No. 33

Project: Ennis Municipal Airport
Location: Proposed Taxiway at 32°19'29.21"N; 96°39'45.10"W
Date Drilled: 5/21/2025

Boring Depth: 10 ft.
Water Level: N/A
Drilling Method: A = Auger

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
		NS	Top Soil with Vegetation														
1.0		B33S1	Dark Brown, Sandy Lean CLAY	CL	A	17.1	36	24	100.0	100.0	100.0	100.0	100.0	99.9	99.6	63.4	1.0
2.0																	2.0
3.0		B33S2	Brown, Fat CLAY with Sand	CH	A	17.3	65	55	100.0	100.0	100.0	99.3	99.0	98.6	95.0	73.8	3.0
4.0																	4.0
5.0																	5.0
6.0		B33S3	Brown, Fat CLAY with Sand	CH	A	21.0	60	49	100.0	100.0	100.0	99.5	99.3	99.0	98.5	75.4	6.0
7.0																	7.0
8.0		B33S4	Brown, Fat CLAY with Sand	CH	A	19.2	61	48	100.0	100.0	100.0	100.0	99.5	99.0	98.3	74.1	8.0
9.0																	9.0
10.0																	10.0

Boring terminated at 10 ft. No groundwater was encountered.

A-33

Bore Log Data
Test Pit No. 1

Project: Ennis Municipal Airport
Location: Runway 16-34 at 32°19'40.94"N; 96°39'47.79"W
Date Drilled: 4/30/2025

Test Pit Depth: 20 inches
Water Level: N/A
Drilling Method: E = Excavation

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
0.5		NS	6-3/4" HMAC		E												0.5
1.0		TP1S1	6-3/4" BASE, Light Brown, Silty SAND with Gravel	SM	E	4.6	17	3	100.0	83.9	82.2	69.1	59.6	45.2	23.1	10.0	1.0
1.5		TP1S2	Very Dark Gray, Sandy SILT	ML	E	14.0	44	10	100.0	95.2	95.0	90.9	85.4	78.1	68.6	50.2	1.5
2.0			Test pit terminated at 20 inches. No groundwater was encountered.														2.0
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-34

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

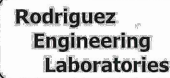
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XVII

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G037
SHEET NO.
24 of 109



Bore Log Data
Test Pit No. 2

Project: Ennis Municipal Airport

Location: Parallel Taxiway at 32°19'53.96"N; 96°39'55.21"W

Date Drilled: 4/30/2025

Test Pit Depth: 20 inches

Water Level: N/A

Drilling Method: E = Excavation

Depth (ft)	Soil Symbol	Sample No.	Laboratory Classification		Drilling Method	Moisture Content (%)	Atterberg Limits		Sieve Analysis, Percent Passing								Depth (ft)
			Material Description	Group Symbol			LL	PI	3"	7/8"	3/4"	3/8"	No.4	No.10	No.40	No.200	
0.5		NS	6-1/2" HMAc		E												0.5
1.0		TP2S1	7-1/2" BASE, Light Brown, Poorly Graded GRAVEL with Silt and Sand	GP - GM	E	7.6	Non-Plastic	100.0	71.9	68.5	58.5	49.3	41.6	34.1	6.9		1.0
1.5		TP2S2	Very Dark Gray, Sandy SILT	ML	E	14.0	44	10	100.0	95.2	95.0	90.9	85.4	78.1	66.6	50.2	1.5
2.0		Test pit terminated at 20 inches. No groundwater was encountered.															2.0
2.5																	2.5
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0

A-35

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ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR:				
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XVIII

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G038
SHEET NO.
25 of 109

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LEGEND OF TERMINOLOGY

GRAVELS More than half of Coarse fraction is <u>LARGER</u> than No. 4 Sieve	Clean Gravels Little or no Fines	GW	Well-Graded, gravel-sand mixtures, mixtures, little or no fines
		GP	Poorly-Graded gravels, gravel-sand mixtures, little or no fines
	Gravels with Fines Appreciable Amount of fines	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay Mixtures
SANDS More than half of Coarse fraction is <u>SMALLER</u> than No. 4 Sieve	Clean Sands Little or no Fines	SW	Well-Graded sands, gravelly sands, little or no fines
		SP	Poorly-Graded sands, gravelly sands little or no fines
	Sands with Fines Appreciable Amount of fines	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
SILTS and CLAYS Liquid Limit <u>LESS</u> than 50		ML	Inorganic silts & very fine sands, rock flour, silty or clayey fine sands or clayey silts w/slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays
		OL	Organic silts & organic silty clays of low plasticity
SILTS and CLAYS Liquid Limit <u>GREATER</u> than 50		MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
Highly ORGANIC Soils		PI	Peat & other highly organic soils

A-36

Legend of Symbols

	HMAC
	Topsoil with Vegetation
	Base
	Fat Clay
	Fat Clay with Sand
	Sandy Fat Clay
	Lean Clay
	Lean Clay with Sand
	Sandy Lean Clay
	Clayey Sand with Gravel
	Poorly Graded Gravel
	Poorly Graded Sand
	Silty Sand
	Silt

A-37



ENNIS MUNICIPAL
AIRPORT

DES:	ISSUE RECORD			
DR:	NO.	BY	DATE	DESCRIPTION
CH:				
APP:				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOTECHNICAL INVESTIGATION
BORE LOGS XIX

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

G039

SHEET NO.

26 of 109

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RADIO COMMUNICATION FREQUENCY 122.9 MHz

WHEN ON OR NEAR THE AIRFIELD, ALL RADIO COMMUNICATIONS WILL USE THE FREQUENCY LISTED ABOVE .

1. COORDINATION

ALL COORDINATION WILL TAKE PLACE THROUGH THE RPR AND THE AIRPORT. NO CLOSURES WITHIN THE MOVEMENT AREAS WILL BE PERMITTED WITHOUT A NOTAM IN PLACE FOR EACH SPECIFIC CLOSURE. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE TO THE RPR AND THE AIRPORT FOR FILING OF ALL NOTAMS.

CONTRACTOR SHALL NOTIFY THE RPR AND AIRPORT OF ANY CHANGES TO SCOPE OR SCHEDULE. ALL PARTIES WILL EVALUATE THE IMPACT OF THE CHANGE AND WILL DETERMINE THE MEASURES NEEDED TO MAINTAIN A SAFE CONSTRUCTION SITE.

AIRPORT RUNWAYS AND TAXIWAYS SHOULD REMAIN IN USE BY AIRCRAFT TO THE MAXIMUM EXTENT POSSIBLE.

AIRCRAFT USE OF AREAS NEAR THE CONTRACTOR'S WORK SHOULD BE CONTROLLED TO MINIMIZE DISTURBANCE TO THE CONTRACTOR'S OPERATION.

2. PHASING

THIS PROJECT CONSISTS OF THREE PHASES. SEE CONSTRUCTION SAFETY DRAWINGS FOR PHASING REQUIREMENTS.

CONTRACTOR TO NOTIFY RPR AND AIRPORT IF A CHANGE IN SCHEDULE IS NEEDED.

3. AREAS AND OPERATIONS AFFECTED BY CONSTRUCTION ACTIVITY

ALL WORK SHALL CONFORM TO ADVISORY CIRCULAR 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

CONTRACTOR SHALL ADHERE TO REQUIREMENTS AS MENTIONED ON THIS SHEET, THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), AND CONSTRUCTION SAFETY DRAWINGS. THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, LIFE & SAFETY ACCESS ROUTES, AIRCRAFT ROUTES, PEDESTRIAN ROUTES, CONSTRUCTION ACCESS ROUTES, CONSTRUCTION LIMITS, AND BARRICADE LOCATIONS.

4. PROTECTION OF NAVIGATION AIDS (NAVAIDS)

THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE NAVAIDS AND WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE AIRPORT.

5. CONTRACTOR ACCESS

CONTRACTOR HAS ACCESS TO ONE (1) GATE TO ENTER THE AIRPORT. SEE CONSTRUCTION SAFETY DRAWINGS FOR GATE LOCATION.

CONTRACTOR MOVEMENT SHALL BE RESTRICTED TO THE PRE-DETERMINED ACCESS ROUTES AS SHOWN ON CONSTRUCTION SAFETY DRAWINGS.

ALL VEHICLES AND EQUIPMENT MUST BE IDENTIFIED CLEARLY WITH 8-INCH (MINIMUM) BLOCK-TYPE CHARACTERS OF A CONTRASTING COLOR AND EASY TO READ. IN ADDITION, VEHICLES MUST DISPLAY IDENTIFICATION MEDIA, AS SPECIFIED IN THE APPROVED AIRPORT SECURITY PLAN.

ALL VEHICLES AND EQUIPMENT MUST HAVE FLAG (DAY ONLY) OR BEACON (DAY AND NIGHT) ATTACHED TO THE VEHICLE.

CONTRACTOR IS REQUIRED TO ADHERE TO ALL RULES AND REGULATIONS AS SET BY ENNIS MUNICIPAL AIRPORT AND ADVISORY CIRCULAR 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE WITH THE RPR AND AIRPORT PRIOR TO ENTERING ANY ACTIVE SURFACE SAFETY AREAS OR OBJECT FREE AREAS.

CONTRACTOR, SUBCONTRACTOR, AND SUPPLIER EMPLOYEES OR ANY UNAUTHORIZED PERSONS ARE RESTRICTED FROM ENTERING AN AIRPORT AREA THAT WOULD BE HAZARDOUS.

6. WILDLIFE MANAGEMENT

CONTRACTOR SHALL ADHERE TO ALL WILDLIFE MANAGEMENT PRACTICES AS STATED IN ADVISORY CIRCULAR 150/5200-33B, HAZARDOUS WILDLIFE ATTRACTIONS ON OR NEAR AIRPORTS, AND CERTALERT 98-08, GRASSES ATTRACTIVE TO HAZARDOUS WILDLIFE.

CONTRACTOR IS RESPONSIBLE FOR COMPLETING A DAILY INSPECTION FOR TRASH, FOREIGN OBJECTS, AND STANDING WATER ON THE CONSTRUCTION SITE THAT MIGHT ATTRACT WILDLIFE.

CONTRACTOR SHALL MAINTAIN ALL FENCES AND GATES THROUGHOUT THE PROJECT TO THE SATISFACTION OF THE RPR.

CONTRACTOR SHALL NOTIFY THE RPR WHEN A WILDLIFE SIGHTING HAS OCCURRED ON THE PROJECT SITE.

7. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

CONTRACTOR SHALL KEEP ALL PAVEMENTS INCLUDING APRONS, TAXIWAYS, AND RUNWAYS FREE FROM FOD AT ALL TIMES TO PREVENT ANY DEBRIS FROM BEING INGESTED INTO AN AIRCRAFT'S ENGINE OR ANY DEBRIS FROM BEING LAUNCHED.

CONTRACTOR IS REQUIRED TO CONTINUOUSLY MONITOR AND MAINTAIN FOD TO THE SATISFACTION OF THE RPR.

PRIOR TO OPENING ANY PAVEMENT TO AIRCRAFT, THE CONTRACTOR, RPR, AND AIRPORT SHALL CONDUCT A SWEEP OF THE PAVEMENT TO VERIFY THAT THE PAVEMENT IS FREE FROM FOD.

THE CONTRACTOR IS ADVISED THAT DUST CONTROL, CLEANUP OF ACTIVE PAVEMENTS, TRACKING DEBRIS ONTO ACTIVE PAVEMENT AND GENERAL JOBSITE CLEANLINESS IS A SERIOUS SAFETY CONCERN. FOREIGN OBJECT DEBRIS (FOD) IS CONSIDERED ANY ITEM THAT COULD IMPACT THE OPERATIONS OF AN AIRPORT OR ROADWAY. FOD COULD CAUSE INJURY OR DEATH THROUGH INGESTION IN MOVING AIRCRAFT ENGINES. SPECIFIC ITEMS OF CONCERN INCLUDE, BUT ARE NOT LIMITED TO; ANY PACKAGING FROM MATERIAL INSTALLATION, GRAVEL LEFT ON ACTIVE PAVEMENTS, DUST TRACKED ONTO ACTIVE PAVEMENTS, HAND TOOLS, HARDWARE DROPPED, ETC.

8. HAZARDOUS MATERIAL (HAZMAT) MANAGEMENT

CONTRACTOR SHALL NOTIFY RPR AND AIRPORT IF HAZARDOUS MATERIALS ARE ENCOUNTERED ON THIS PROJECT.

9. NOTIFICATION OF CONSTRUCTION ACTIVITIES

AGENCY NAME	AGENCY TYPE	TELEPHONE
AIRPORT EMERGENCY	24 HOUR AIRPORT OPERATIONS	(###) ###-#### OR 911
TOWN SHERIFF / POLICE	SHERIFF / POLICE	(972) 875-4455
TOWN FIRE DEPARTMENT	FIRE RESCUE	(972) 875-1234
TOWN HOSPITAL	HOSPITAL / URGENT CARE	(###) ###-####
OPERATIONS	AIRPORT OPERATIONS	(###) ###-####

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR MUST, THROUGH THE RPR AND AIRPORT , GIVE NOTICE USING THE NOTICE TO ARMEN (NOTAM) SYSTEM OF PROPOSED LOCATION, TIME, AND DATE OF COMMENCEMENT OF CONSTRUCTION. THE NOTAM SHOULD STATE THAT "PERSONNEL AND EQUIPMENT ARE WORKING ADJACENT TO RUNWAY 16/34 AND ASSOCIATED TAXIWAY CONNECTORS." ALL NOTAMS SHALL BE ISSUED BY ENNIS MUNICIPAL AIRPORT. UPON COMPLETION OF WORK AND RETURN OF ALL SUCH AREAS TO STANDARD CONDITIONS, THE CONTRACTOR MUST COORDINATE WITH THE RPR AND VERIFY THE CANCELLATION OF ALL NOTICES ISSUED VIA THE NOTAM SYSTEM. THROUGHOUT THE PROJECT DURATION , THE CONTRACTOR MUST:

- BE AWARE OF AND UNDERSTAND THE SAFETY PROBLEMS AND HAZARDS DESCRIBED IN ADVISORY CIRCULAR 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY STANDARDS CONTAINED IN ADVISORY CIRCULAR 150/5370-2G OR ANY OF THE REFERENCES THEREIN.
- INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTEN AS NECESSARY TO BE AWARE OF CONDITIONS.
- PROMPTLY TAKE ALL ACTIONS NECESSARY TO PREVENT OR REMEDY ANY UNSAFE OR POTENTIALLY UNSAFE CONDITIONS AS SOON AS THEY ARE DISCOVERED.
- THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS, PROVISIONS, AND PROCEDURES OUTLINED IN CONSTRUCTION SAFETY PHASING PLAN (SEE DIV. 6 OF THE CONTRACT DOCUMENTS).

IN AN EVENT OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY THE RPR AND AIRPORT EMERGENCY NUMBER.

10. INSPECTION REQUIREMENTS

CONTRACTOR SHALL COMPLETE A DAILY INSPECTION FOR SAFETY ON THE PROJECT SITE BY COMPLETING THE CHECKLIST PROVIDED IN ADVISORY CIRCULAR 150/5370-2G, APPENDIX D, CONSTRUCTION PROJECT DAILY SAFETY INSPECTION CHECKLIST.

THE CONTRACTOR AND RPR MUST PERFORM ONSITE INSPECTIONS THROUGHOUT THE PROJECT WITH IMMEDIATE REMEDY OF ANY DEFICIENCIES WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR SCOPE CHANGE.

CONTRACTOR SHALL COMPLETE A FINAL INSPECTION FOR SAFETY ON THE PROJECT SITE AT THE END OF EACH PHASE.

11. APPROACH CLEARANCE TO RUNWAYS

RUNWAY THRESHOLDS MUST PROVIDE AN UNOBSTRUCTED APPROACH SURFACE OVER EQUIPMENT AND MATERIALS. REFER TO CHAPTER 3 IN ADVISORY CIRCULAR 150/5300-13B, AIRPORT DESIGN, FOR GUIDANCE.

12. RUNWAY AND TAXIWAY VISUAL AIDS

FLASHER BARRICADES AND CLOSED 'X' MARKINGS ARE TO BE PLACED AS DETAILED IN THE PLANS AND IN ALL DESIGNATED AREAS AS SHOWN ON THE CONSTRUCTION SAFETY DRAWINGS.

APPROVED FLASHER BARRICADES SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. FLASHERS SHALL BE INSPECTED DAILY FOR PROPER OPERATION. THOSE NOT OPERATING PROPERLY SHALL BE IMMEDIATELY REPAIRED OR TAKEN OUT OF SERVICE.

CLOSED 'X' MARKINGS SHALL BE PROVIDED BY THE CONTRACTOR AND MAINTAINED BY THE CONTRACTOR.

CONTRACTOR TO COVER ALL TAXIWAY SIGNS FOR AREAS CLOSED BY NOTAM TO THE SATISFACTION OF THE RPR.

13. MARKING AND SIGNS FOR ACCESS ROUTES

ALL REQUIRED SIGNS AND MARKINGS SHALL CONFORM TO ADVISORY CIRCULAR 150/5340-18H, STANDARD FOR AIRPORT SIGN SYSTEMS, OR THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL SIGNS ADJACENT TO AREAS USED BY AIRCRAFT MUST COMPLY WITH THE FRANGIBLE REQUIREMENTS AS STATED IN ADVISORY CIRCULAR 150/5220-23A, FRANGIBLE CONNECTIONS.

14. HAZARD MARKINGS AND LIGHTING

PRIOR TO CLOSING ANY AREAS TO AIRCRAFT OR EMERGENCY TRAFFIC, CONTRACTOR MUST CLEARLY DEFINE CLOSED AREAS WITH WARNING LIGHTS, BARRICADES, CLOSED 'X' MARKINGS,AND FLAGS TO THE APPROVAL OF THE RPR. CONTRACTOR TO REFER TO CONSTRUCTION SAFETY DRAWINGS.

HAZARDOUS AREAS ON THE MOVEMENT AREA WILL BE MARKED WITH FLASHER BARRICADES. THESE BARRICADES RESTRICT ACCESS AND MAKE HAZARDS OBVIOUS TO AIRCRAFT, PERSONNEL, AND VEHICLES. DURING PERIODS OF LOW VISIBILITY AND AT NIGHT, IDENTIFY HAZARDOUS AREAS WITH RED FLASHING LIGHTS.

OPEN TRENCHES AND EXCAVATIONS MUST BE PROMINENTLY MARKED WITH RED OR ORANGE FLAGS AND LIGHTS AS APPROVED BY THE RPR.

15. PROTECTION OF RUNWAY AND TAXIWAY AREAS

SAFETY AREAS - CONTRACTOR SHALL NOT IMPEDE ON THE SAFETY AREAS WITHOUT A CLOSURE OF THE RUNWAY/TAXIWAY BY MEANS OF A NOTAM.

OBJECT FREE AREAS - CONTRACTOR SHALL NOT PLACE EQUIPMENT, MATERIAL, OR STOCKPILES IN THIS AREA. ALL OBJECTS OR MATERIALS ADJACENT TO THIS AREA SHALL BE PROPERLY MARKED/LIT PER ADVISORY CIRCULAR 150/5370-2G.

OBSTACLE FREE ZONES - CONTRACTOR SHALL PREVENT PERSONNEL, MATERIAL AND/OR EQUIPMENT FROM PENETRATING THE OBSTACLE FREE ZONE AS DEFINED IN ADVISORY CIRCULAR 150/5300-13B.

16. OTHER LIMITATIONS ON CONSTRUCTION

OPEN-FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE SAFETY PRECAUTIONS ARE PROVIDED AND THESE OPERATIONS HAVE BEEN AUTHORIZED BY THE AIRPORT (AS TAILORED TO CONFORM TO LOCAL REQUIREMENTS AND RESTRICTIONS).

PROMINENTLY MARKING OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE SITE AND LIGHTING THESE OBSTACLES DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS IS REQUIRED.

MARKING AND LIGHTING CLOSED, DECEPTIVE, AND HAZARDOUS AREAS ON AIRPORTS, AS APPROPRIATE. CONSTRAINING STOCKPILED MATERIAL TO PREVENT ITS MOVEMENT AS A RESULT OF THE MAXIMUM ANTICIPATED AIRCRAFT BLAST AND FORECAST WIND CONDITIONS.

NO USE OF TALL EQUIPMENT (CRANES, CONCRETE PUMPS, AND SO ON) UNLESS A FAA 7460-1 DETERMINATION LETTER IS ISSUED FOR SUCH EQUIPMENT.

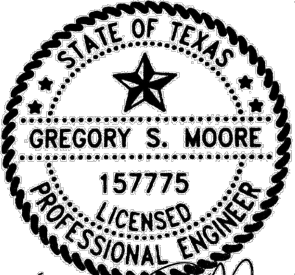
NO USE OF ELECTRICAL BLASTING CAPS ON OR WITHIN 1,000' OF THE AIRPORT PROPERTY.

NO USE OF FLARE POTS.

17. DUST CONTROL

CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST FROM THE CONSTRUCTION SITE AT ALL TIMES. CONTRACTOR SHALL HAVE A WATER TRUCK AND OPERATOR AVAILABLE 24 HOURS A DAY TO CONTROL DUST. THE PROJECT'S LOCATION IS NEAR ACTIVE RUNWAYS AND HIGHWAYS AND IS IN A LOCATION THAT EXPERIENCES HIGH WIND. IT IS CRITICAL FOR THE CONTRACTOR TO KEEP DUST TO AN ABSOLUTE MINIMUM BOTH DURING AND AFTER CONSTRUCTION UNTIL THE EXPOSED SURFACES CONTAIN SUSTAINABLE VEGETATION. CONTRACTOR SHALL PROVIDE THE RPR AND AIRPORT WITH A CONTACT FOR 24 HOUR DUST CONTROL.

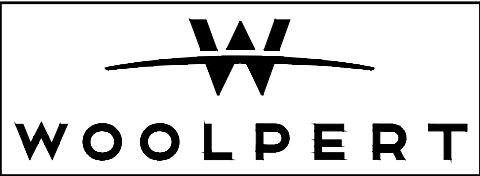
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5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: A.D.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

CONSTRUCTION SAFETY NOTES

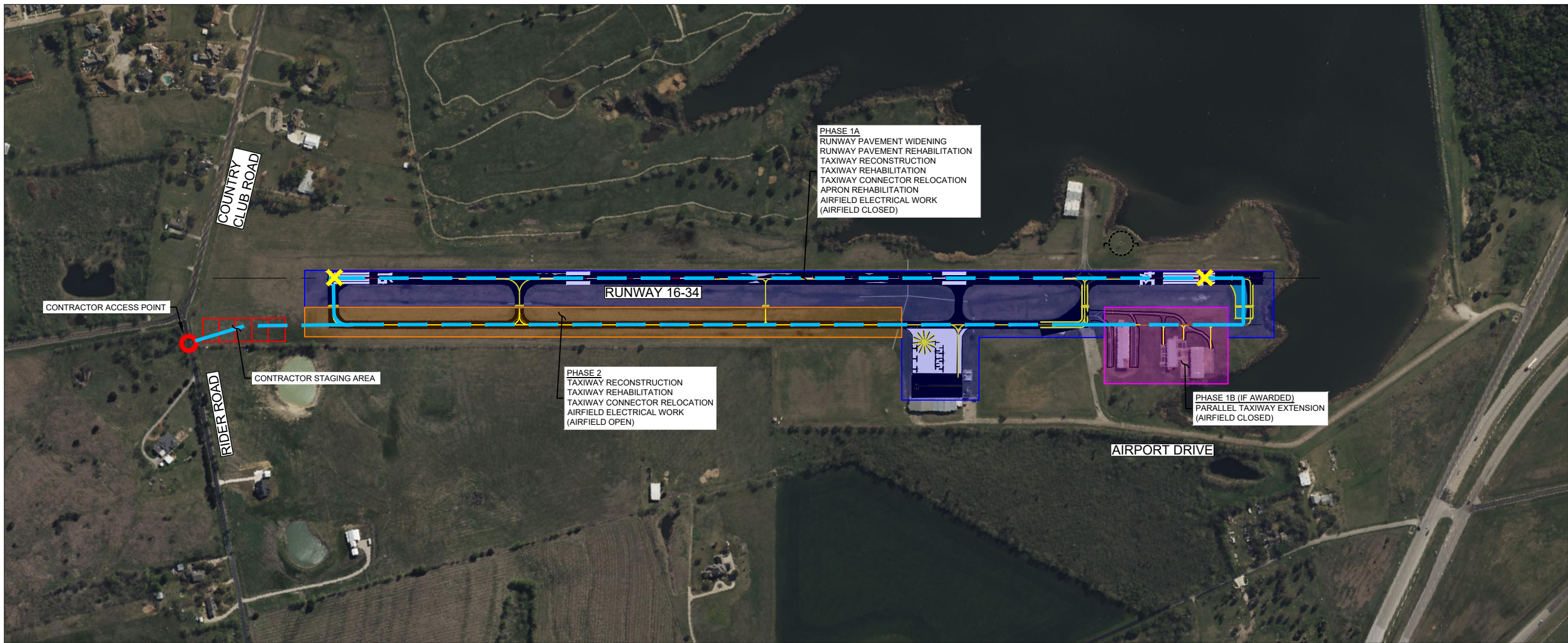
STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01
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SHEET NAME

G050

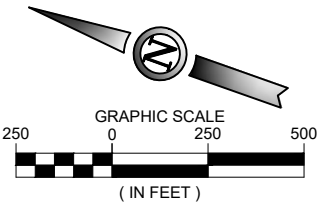
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27 of 109



OVERALL PHASING LEGEND

	CONTRACTOR HAUL ROUTE (2 WAY TRAFFIC)
	AIRCRAFT TAXI ROUTE
	RSA RUNWAY SAFETY AREA
	ROFA RUNWAY OBJECT FREE AREA
	RPZ RUNWAY PROTECTION ZONE
	LIMITS OF DISTURBANCE
	ARFF/EMERGENCY VEHICLE ROUTE
	PHASE 1A WORK AREA
	PHASE 1B WORK AREA
	PHASE 2 WORK AREA
	TAXIWAY CLOSURE MARKER
	RUNWAY CLOSURE MARKER
	CONTRACTOR GATE ACCESS



PROJECT SCHEDULE		
PHASE	DURATION	
PHASE 1A	120 CALENDAR DAYS	
PHASE 1B	30 CALENDAR DAYS	
PHASE 2	30 CALENDAR DAYS	

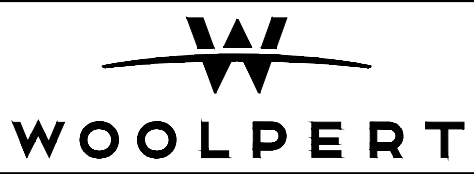
SAFETY & OBJECT FREE AREAS	
RUNWAY 16/34	
RUNWAY SAFETY AREA (RSA)	60' FROM RW CENTERLINE
RUNWAY EXTENDED SAFETY AREA (RSA)	240' FROM RW END
RUNWAY OBJECT FREE AREA (ROFA)	125' FROM RW CENTERLINE
RUNWAY OBSTACLE FREE ZONE (ROFZ)	125' FROM RW CENTERLINE
TAXIWAYS	
TAXIWAY SAFETY AREA (TSA)	24.5' FROM TW CENTERLINE
TAXIWAY OBJECT FREE AREA (TOFA)	44.5' FROM TW CENTERLINE
TAXILANE OBJECT FREE AREA (TLOFA)	34.5' FROM TLANE CENTERLINE

- NOTES:**
- THE TOTAL CONSTRUCTION DURATION IS ESTIMATED TO BE 150 CALENDAR DAYS.
 - THIS CSPP PLAN IS DRAFTED WITH AN ASSUMPTION THAT THE RUNWAY AND AIRFIELD WILL BE NOTAM CLOSED DURING CONSTRUCTION OF PHASE 1A.
 - ALL CONSTRUCTION ACTIVITIES WILL BE EXECUTED DURING THE DAYTIME. NO NIGHTTIME WORK IS PERMISSIBLE.
 - THE PHASING PLAN ASSUMES THAT THE CONTRACTOR CAN WORK CONCURRENTLY IN PHASES 1A AND 1B PENDING AWARD OF ADDITIVE ALTERNATES.
 - THERE IS ANTICIPATED NEED TO CONSTRUCT TEMPORARY HAUL ROUTES AND STABILIZED CONSTRUCTION ENTRANCES FOR HAULING AND CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING AIRPORT INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO THE RUNWAY AND TAXIWAYS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

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FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



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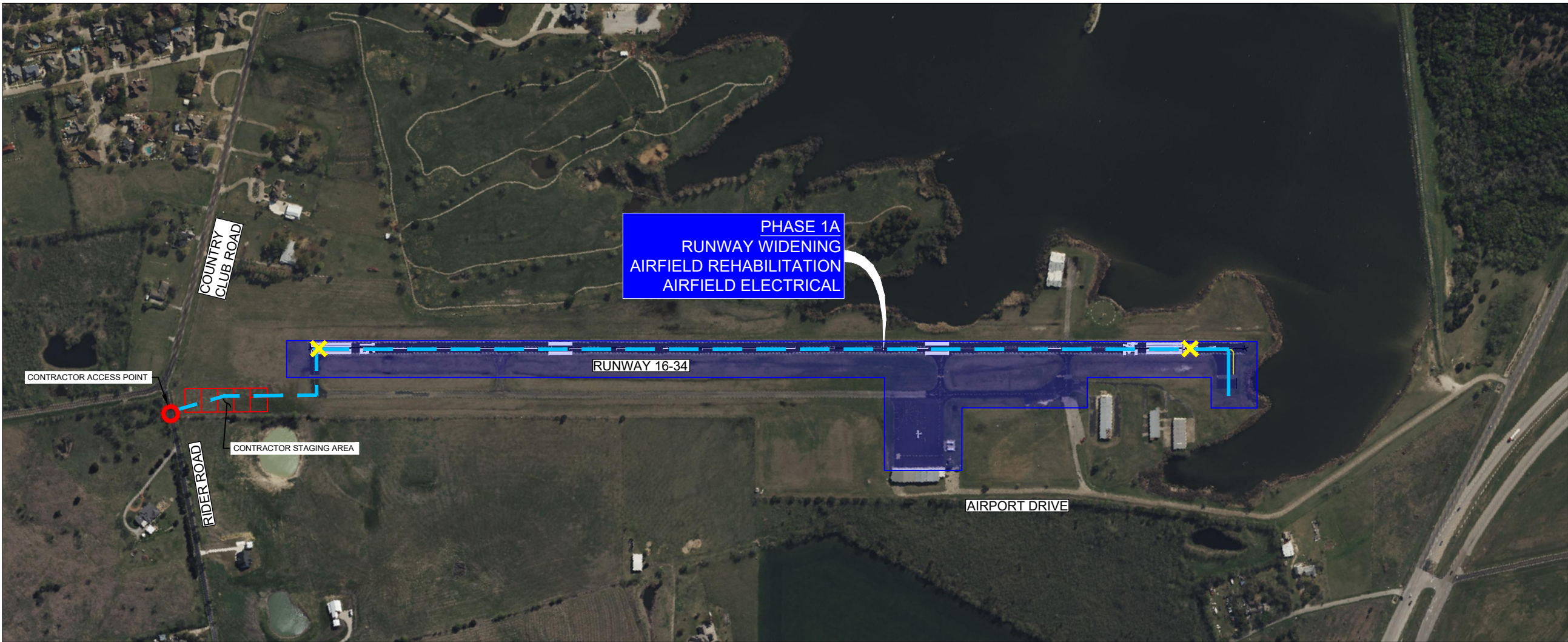
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

CONSTRUCTION SAFETY OVERALL
PHASING PLAN

STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01
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SHEET NAME
G051

SHEET NO.
28 of 109



PHASING LEGEND

LIFE & SAFETY ROUTE

AIRCRAFT TAXI ROUTE

PEDESTRIAN ROUTE

CONTRACTOR HAUL ROUTE (2 WAY TRAFFIC)

CONTRACTOR HAUL ROUTE (1 WAY TRAFFIC)

RSA

ROFA

TSA

TOFA

RPZ

NAVAID CRITICAL AREA

X

AOA FENCE

FLASHER BARRICADE

X

RUNWAY CLOSURE MARKER

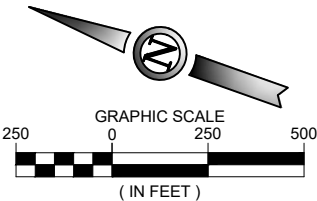
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TAXIWAY CLOSURE MARKER

FLAGMAN / GATE GUARD

O

CONTRACTOR GATE ACCESS



CONSTRUCTION PHASING NOTES

PHASE 1A	MAJOR WORK TO BE COMPLETED	NOTES
<u>DURATION</u> 120 CALENDAR DAYS CONSTRUCTION IS CONCURRENT WITH PHASE 1B (CONTINGENT ON ADDITIVE ALTERNATE-I AWARD) <u>CONTRACTOR ACCESS TIMES</u> DAYTIME ACCESS TO APPROVED WORK AREAS AIRPORT SHALL BE NOTAM CLOSED.	<u>SITE PREPARATION</u> - EROSION CONTROL MEASURES - CLEAR AND GRUB AREA - FULL AND PARTIAL DEPTH PAVEMENT REMOVALS - ELECTRICAL REMOVALS <u>EARTHWORK</u> - RECOMPACT NATIVE MATERIAL/EMBANKMENT PREPARATION - CUT/FILL EARTHWORK (INCLUDING IMPORT) <u>UTILITY</u> - STORM DRAIN INFRASTRUCTURE - ELECTRICAL CABLES - SIGNS AND LIGHT FIXTURES <u>PAVEMENT SECTION</u> - CONSTRUCT RUNWAY WIDENING SECTION - RUNWAY ASPHALT OVERLAY - APRON RECONSTRUCTION AND OVERLAY SECTION - TEMPORARY PAINT - PERMANENT PAINT (AFTER 30 DAY CURE PERIOD) <u>SITE RECLAMATION</u> - SEEDING - EROSION CONTROL MEASURES	- THE CONTRACTOR SHALL GIVE RIGHT OF WAY TO ALL AIRCRAFT AND EMERGENCY VEHICLES AT ALL TIMES. - THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO THE RUNWAY AT ALL TIMES. - NO WORK, OPEN EXCAVATIONS, EQUIPMENT, STOCKPILES, OR PERSONNEL ARE ALLOWED IN THE SAFETY AREAS FOR ANY ACTIVE TAXIWAY OR RUNWAY. - ALL OBJECT FREE AREA LIMITS FOR ACTIVE AIRPORT PAVEMENTS SHALL BE KEPT FREE OF EQUIPMENT STORAGE OR MATERIAL STOCKPILES. - ALL STOCKPILES OR EQUIPMENT ADJACENT TO OBJECT FREE AREAS SHALL BE MARKED AND LIGHTED PER AC 150/5370-2G. - ALL WASTE MATERIALS SHALL BE DISPOSED OF OFFSITE. - SITE ACCESS, HAUL ROUTES, STAGING AREAS, AND MATERIAL STOCKPILE AREAS SHALL BE AS DESIGNATED ON THE PLANS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PLACE MATERIAL, DRIVE VEHICLES, MOVE EQUIPMENT, OR CAUSE A DISTURBANCE IN ANY OTHER MANNER IN ANY AREAS OTHER THAN THOSE DESIGNATED ON THE PLANS WITHOUT THE WRITTEN APPROVAL OF THE RPR. - CONSTRUCTION TRAFFIC / ACCESS TO WORK AREAS SHALL BE LIMITED TO APPROVED HAUL ROUTES ONLY. - THE CONTRACTOR SHALL HAVE A SWEEPER ON SITE AT ALL TIMES TO CLEAN DEBRIS FROM HAUL ROUTES. CONSTRUCTION ACCESS POINTS, OR AREAS ADJACENT TO CONSTRUCTION. THE CONTRACTOR SHALL CONTINUOUSLY MONITOR THE HAUL ROUTE CROSSINGS OF THE ACTIVE RUNWAY AND TAXIWAY FOR FOREIGN OBJECT DEBRIS (FOD) AND IMMEDIATELY REMOVE ANY FOD. - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED ALONG THE HAUL ROUTES OR CONSTRUCTION ACCESS ROUTES TO THE PROJECT SITE. HAUL ROADS SHALL BE MAINTAINED AND RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR. HAUL ROUTE CONSTRUCTION AND RESTORATION IS INCIDENTAL TO ITEM C-105 MOBILIZATION. - THE CONTRACTOR SHALL MAINTAIN AIRPORT SECURITY AT ALL TIMES. - AIRPORT ACCESS GATES SHALL BE SECURELY CLOSED AND LOCKED AT ALL TIMES WHEN NOT IN USE OR A GATE GUARD IS NOT PRESENT. - CONSTRUCTION BARRICADES AND CLOSURE MARKERS SHALL BE INSTALLED PER THESE PHASING PLANS AND AS REQUIRED BY AC 150/5370-2G OR AS DIRECTED BY THE ENGINEER AND ARE INCIDENTAL TO ITEM C-105 MOBILIZATION. - SEE SHEET CONSTRUCTION SAFETY NOTES AND DETAILS FOR ADDITIONAL SAFETY REQUIREMENTS.

ISSUED FOR BID

STATE OF TEXAS

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GREGORY S. MOORE

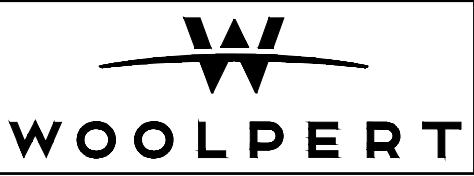
157775

PROFESSIONAL ENGINEER

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

CONSTRUCTION SAFETY PLAN
PHASE 1A

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

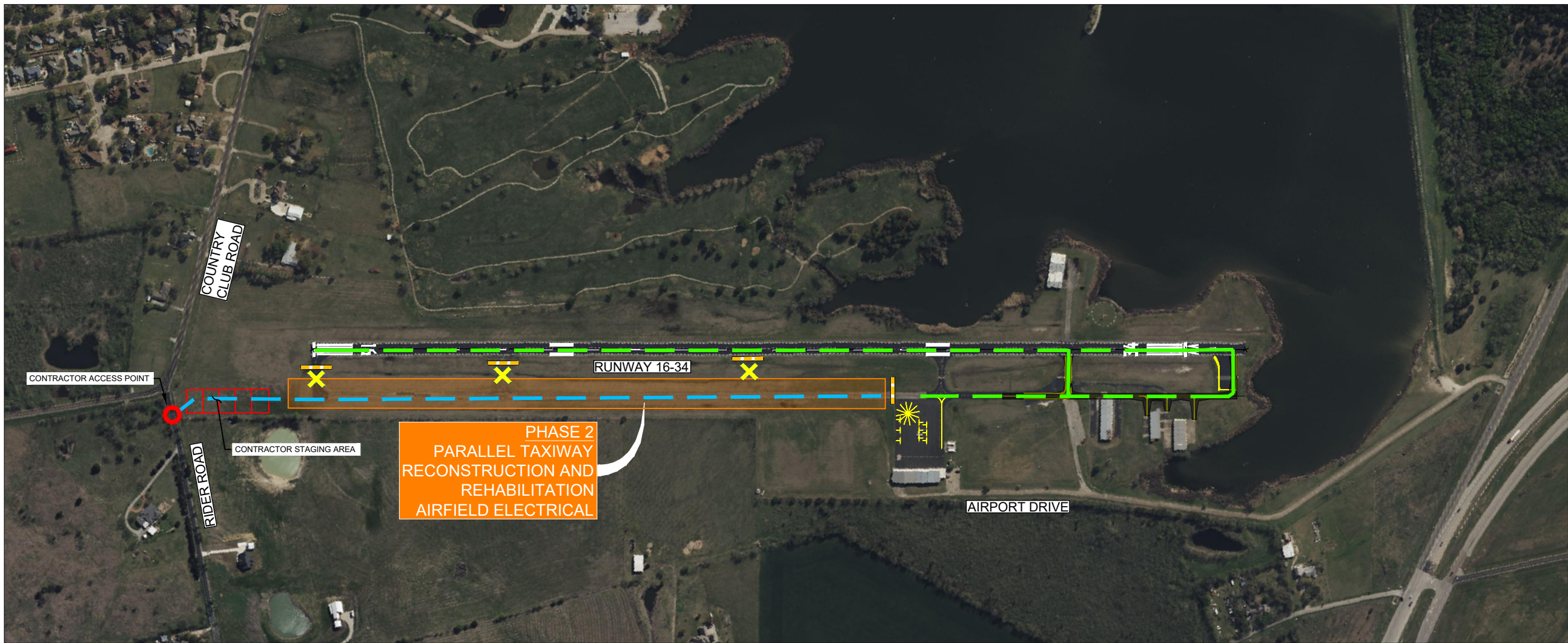
WOOLPERT PROJ. NO.
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SHEET NAME

G052

SHEET NO.

29 of 109



PHASING LEGEND

LIFE & SAFETY ROUTE

AIRCRAFT TAXI ROUTE

PEDESTRIAN ROUTE

CONTRACTOR HAUL ROUTE
(2 WAY TRAFFIC)

CONTRACTOR HAUL ROUTE
(1 WAY TRAFFIC)

RSA

ROFA

TSA

TOFA

RPZ

NAVAID CRITICAL AREA

X

AOA FENCE

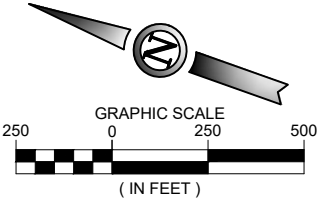
FLASHER BARRICADE

RUNWAY CLOSURE
MARKER

TAXIWAY CLOSURE
MARKER

FLAGMAN / GATE
GUARD

CONTRACTOR
GATE ACCESS



CONSTRUCTION PHASING NOTES

PHASE 2	MAJOR WORK TO BE COMPLETED	NOTES
DURATION 30 CALENDAR DAYS CONTRACTOR ACCESS TIMES ALL AIRPORT OPERATIONS AREAS SHALL REMAIN OPEN AND UNAFFECTED DURING THIS SCHEDULE WITH THE FOLLOWING EXCEPTIONS: TAXIWAY A WILL BE PARTIALLY CLOSED. TAXIWAY A1, TAXIWAY A2 AND TAXIWAY A3 WILL BE CLOSED. OTHER CLOSURES AND RESTRICTIONS AS DEPICTED IN THIS SHEET.	SITE PREPARATION 1. EROSION CONTROL MEASURES 2. CLEAR AND GRUB AREA 3. FULL AND PARTIAL DEPTH PAVEMENT REMOVALS 4. ELECTRICAL REMOVALS EARTHWORK 1. RECOMPACT NATIVE MATERIAL/EMBANKMENT PREPARATION 2. CUT/FILL EARTHWORK (INCLUDING IMPORT) UTILITY 1. STORM DRAIN INFRASTRUCTURE 2. ELECTRICAL CABLES 3. SIGNS AND LIGHT FIXTURES PAVEMENT SECTION 1. PARALLEL TAXIWAY RECONSTRUCTION 2. PARALLEL TAXIWAY REHABILITATION 3. TEMPORARY PAINT 4. PERMANENT PAINT (AFTER 30 DAY CURE PERIOD) SITE RECLAMATION 1. SEEDING 2. EROSION CONTROL MEASURES	1. THE CONTRACTOR SHALL GIVE RIGHT OF WAY TO ALL AIRCRAFT AND EMERGENCY VEHICLES AT ALL TIMES. 2. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO THE RUNWAY AT ALL TIMES. 3. NO WORK, OPEN EXCAVATIONS, EQUIPMENT, STOCKPILES, OR PERSONNEL ARE ALLOWED IN THE SAFETY AREAS FOR ANY ACTIVE TAXIWAY OR RUNWAY. 4. ALL OBJECT FREE AREA LIMITS FOR ACTIVE AIRPORT PAVEMENTS SHALL BE KEPT FREE OF EQUIPMENT STORAGE OR MATERIAL STOCKPILES. 5. ALL STOCKPILES OR EQUIPMENT ADJACENT TO OBJECT FREE AREAS SHALL BE MARKED AND LIGHTED PER AC 150/5370-2G. 6. ALL WASTE MATERIALS SHALL BE DISPOSED OF OFFSITE. 7. SITE ACCESS, HAUL ROUTES, STAGING AREAS, AND MATERIAL STOCKPILE AREAS SHALL BE AS DESIGNATED ON THE PLANS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PLACE MATERIAL, DRIVE VEHICLES, MOVE EQUIPMENT, OR CAUSE A DISTURBANCE IN ANY OTHER MANNER IN ANY AREAS OTHER THAN THOSE DESIGNATED ON THE PLANS WITHOUT THE WRITTEN APPROVAL OF THE RPR. 8. CONSTRUCTION TRAFFIC / ACCESS TO WORK AREAS SHALL BE LIMITED TO APPROVED HAUL ROUTES ONLY. 9. THE CONTRACTOR SHALL HAVE A SWEEPER ON SITE AT ALL TIMES TO CLEAN DEBRIS FROM HAUL ROUTES. CONSTRUCTION ACCESS POINTS, OR AREAS ADJACENT TO CONSTRUCTION. THE CONTRACTOR SHALL CONTINUOUSLY MONITOR THE HAUL ROUTE CROSSINGS OF THE ACTIVE RUNWAY AND TAXIWAY FOR FOREIGN OBJECT DEBRIS (FOD) AND IMMEDIATELY REMOVE ANY FOD. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED ALONG THE HAUL ROUTES OR CONSTRUCTION ACCESS ROUTES TO THE PROJECT SITE. HAUL ROADS SHALL BE MAINTAINED AND RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR. HAUL ROUTE CONSTRUCTION AND RESTORATION IS INCIDENTAL TO ITEM C-105 MOBILIZATION. 11. THE CONTRACTOR SHALL MAINTAIN AIRPORT SECURITY AT ALL TIMES. 12. AIRPORT ACCESS GATES SHALL BE SECURELY CLOSED AND LOCKED AT ALL TIMES WHEN NOT IN USE OR A GATE GUARD IS NOT PRESENT. 13. CONSTRUCTION BARRICADES AND CLOSURE MARKERS SHALL BE INSTALLED PER THESE PHASING PLANS AND AS REQUIRED BY AC 150/5370-2G OR AS DIRECTED BY THE ENGINEER AND ARE INCIDENTAL TO ITEM C-105 MOBILIZATION. 14. SEE SHEET CONSTRUCTION SAFETY NOTES AND DETAILS FOR ADDITIONAL SAFETY REQUIREMENTS.

ISSUED FOR BID

STATE OF TEXAS

GREGORY S. MOORE

157775

LICENSED PROFESSIONAL ENGINEER

Gregory S. Moore

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

WOOLPERT

ENNIS TEXAS

The bluebonnet spirit of Texas

ENNIS MUNICIPAL AIRPORT

DES: A.D.

DR: A.D.

CH: C.L.G.

APP: G.S.M.

ISSUE RECORD

NO.	BY	DATE	DESCRIPTION
2	G.S.M.	5/15/2026	ISSUED FOR BIDDING

RUNWAY WIDENING, TAXIWAY EXTENSION & AIRFIELD ELECTRICAL

CONSTRUCTION SAFETY PLAN
PHASE 2

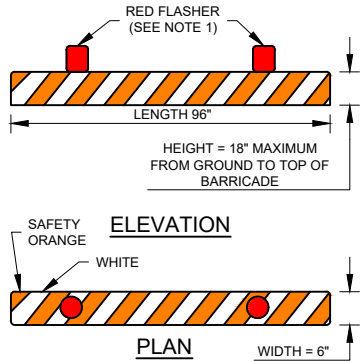
STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
G054

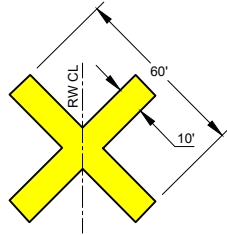
SHEET NO.
31 of 109

Printed June 5, 2026 @ 11:05 AM by Walker, Jude
C:\P1\2026 Runway Widening, Taxiway Extension, Airfield Electrical\F-CAD\PLANS\000-F41-TXDOT-24-G052 PHAS.dwg



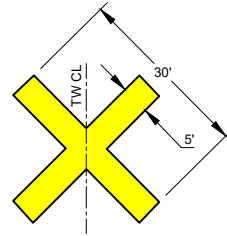
1. FLASHER BARRICADES WILL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT ALL TIMES. CONTRACTOR SHALL ALSO PROVIDE SPARE BARRICADES, BATTERIES, AND LIGHT BULBS FOR MAINTENANCE DURING NIGHTTIME HOURS.
2. LOW-PROFILE BARRICADES TO BE PLACED AT 10' INTERVALS ADJACENT TO CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
3. BARRICADES ARE TO BE PLACED IN LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER THROUGHOUT ALL PHASES OF THE PROJECT. THE BARRICADE LOCATIONS PROVIDED ON THIS SHEET SHALL REMAIN THROUGHOUT CONSTRUCTION. ADDITIONAL BARRICADES WILL BE REQUIRED ACROSS PHASE SPECIFIC AREAS OF CLOSED PAVEMENT, AND ARE SHOWN ON PHASING SHEETS.
4. FLASHER BARRICADES WILL BE REQUIRED ALONG THE EDGE OF ANY VERTICAL DROP OFF GREATER THAN 3". THE AIRPORT MANAGER WILL ISSUE NOTAMS TO ADVISE AIRCRAFT OF THIS CONDITION.
5. FLASHER BARRICADES ARE TO BE ADEQUATELY WEIGHTED SO THEY WILL REMAIN IN PLACE DURING TIMES OF HIGH WINDS OR AS APPROVED BY THE ENGINEER.

1 LOW PROFILE BARRICADE DETAIL AND NOTES
NOT TO SCALE



THE CONTRACTOR WILL BE REQUIRED TO PLACE CROSSES AT EACH END OF THE RUNWAY DURING CONSTRUCTION CLOSURES. THE MATERIAL USED FOR THE CROSS SHALL BE ANY SUITABLE WOOD, PLYWOOD OR FABRIC ACCEPTABLE TO THE ENGINEER. THE MATERIAL SHALL BE PAINTED YELLOW. THE CROSS SHALL BE PLACED OVER RUNWAY NUMBER AND SECURED TO SURFACE TO PROTECT MOVEMENT FROM WIND AND/OR JETBLAST.

2 RUNWAY CLOSURE "X" DETAIL
NOT TO SCALE



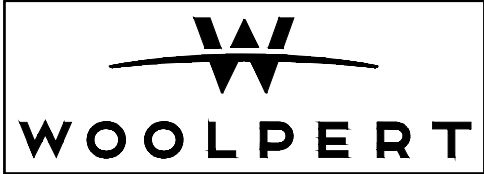
CONSTRUCT CLOSED TAXIWAY "X" WITH ANY OF THE FOLLOWING: DOUBLE-LAYERED PAINTED SNOW FENCE, COLORED PLASTIC, PAINTED SHEETS OF PLYWOOD OR SIMILAR MATERIALS. CONTRACTOR TO ENSURE THAT MATERIALS ARE PROPERLY CONFIGURED AND SECURED TO PREVENT MOVEMENT FROM JET BLAST OR WIND. CLOSED TAXIWAY "X" SHALL BE LESS THAN 3-INCHES THICK.

3 TAXIWAY CLOSURE "X" DETAIL
NOT TO SCALE

ISSUED FOR BID

GREGORY S. MOORE
PE NO. 157775
5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

CONSTRUCTION SAFETY DETAILS

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
G055
SHEET NO.
32 of 109

Printed July 31, 2026 @ 3:07 PM by: Moore, CGreg
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SITE DESCRIPTION

PROJECT LIMITS:
PERIMETER OF ENNIS MUNICIPAL AIRPORT

PROJECT DESCRIPTION:
RUNWAY WIDENING, TAXIWAY EXTENSION AND ELECTRICAL IMPROVEMENTS

MAJOR SOIL DISTURBING ACTIVITIES:
RUNWAY WIDENING, EXCAVATION FOR TAXIWAY EXTENSION, TRENCHING FOR ELECTRICAL CONDUIT.

TOTAL PROJECT AREA (APPROXIMATE):
BASE BID: 22.1 ACRES
ADD ALTERNATE NO. 1: 5.4 ACRES
BOTH BIDS TOGETHER: 27.5 ACRES

TOTAL AREA TO BE DISTURBED (APPROXIMATE):
BASE BID: 9.9 ACRES
ADD ALTERNATE NO. 1: 4.9 ACRES
BOTH BIDS TOGETHER: 14.8 ACRES

EXISTING CONDITION OF SOIL AND VEGETATIVE
COVER AND % OF EXISTING VEGETATIVE COVER:
EXCELLENT - 98% COVERAGE ON UNDISTURBED AREAS, GRASS ONLY

NAME OF RECEIVING WATERS:
LAKE CLARK

SOIL STABILIZATION PRACTICES:

- ☒ TEMPORARY SEEDING
- ☐ PERMANENT PLANTING, SODDING OR SEEDING
- ☐ MULCHING
- ☐ SOIL RETENTION BLANKET
- ☐ BUFFER ZONES
- ☒ PRESERVATION OF NATURAL RESOURCES

OTHER:

STRUCTURAL PRACTICES:

- ☒ SILT FENCES
- ☒ HAY BALES
- ☐ ROCK BERMS
- ☐ DIVERSION INTERCEPTOR OR PERIMETER DIKES
- ☐ DIVERSION INTERCEPTOR OR PERIMETER SWALES
- ☐ DIVERSION DIKE AND SWALE COMBINATIONS
- ☐ PIPE SLOPE DRAINS
- ☐ PAVED FLUMES
- ☐ ROCK BEDDING AT CONSTRUCTION EXIT
- ☐ TIMBER MATTING AT CONSTRUCTION EXIT
- ☐ CHANNEL LINERS
- ☐ SEDIMENT TRAPS
- ☐ SEDIMENT BASINS
- ☐ STORM INLET SEDIMENT TRAP
- ☐ STONE OUTLET STRUCTURES
- ☐ CURBS AND GUTTERS
- ☐ STORM SEWERS
- ☐ VELOCITY CONTROL DEVICES

OTHER:

- NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:
- PLACE SILT FENCE
 - PROTECT EXISTING STORM DRAINS AND CULVERTS
 - PERFORM RUNWAY WIDENING, TAXIWAY EXTENSION AND ELECTRICAL OPERATIONS
 - PLACE TEMPORARY SEEDING

STORM WATER MANAGEMENT:
STORM WATER WILL CONTINUE IN EXISTING CHANNELS, CULVERTS, AND SHEET FLOW AS CURRENTLY CONSTITUTED.

EROSION AND SEDIMENT CONTROLS

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE:
ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES USED FOR SILT REDUCTION IN THE DISTURBED AREAS.

INSPECTION:
AN INSPECTION WILL BE PERFORMED BY A RESIDENT PROJECT REPRESENTATIVE EVERY 7 DAYS AND AFTER MORE THAN 1/2-INCH RAINFALL EVENT. AN INSPECTION REPORT WILL BE MADE PER EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORT.

WASTE MATERIALS:
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AT AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):
AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION AND CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR AND TXDOT PROJECT MANAGER SHALL BE CONTACTED IMMEDIATELY.

SANITARY WASTE:
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION.

OFFSITE VEHICLE TRACKING:
☐ HAUL ROADS DAMPENED FOR DUST CONTROL
☐ LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
☐ EXCESS DIRT ON ROAD REMOVED DAILY
☐ STABILIZED CONSTRUCTION ENTRANCE

OTHER:

REMARKS:
DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLANDS, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICAL OF TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATION THAT ARE NOT A PART OF THE FINISHED WORK.

PROJECTS WITH 5 ACRES OR MORE OF SOIL DISTURBANCE INCLUDING REQUIRED ASSOCIATED PSL'S PER TPDES GP TXR 150000: THE ENGINEER WILL FILE A NOTICE OF INTENT (NOI) AND A NOTICE OF TERMINATION (NOT) ALONG WITH OTHER REQUIREMENTS PER TPDES GP TXR 150000 AS THE ENTITY HAVING OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATIONS FOR WORK SHOWN ON THE SWP3, AS PROVIDED IN THE PLANS AN OPERATOR UNDER THE TPDES GP TXR 150000 AND RESPONSIBLE FOR PART III, SECTION B.1, OPERATORS WITH CONTROL OVER PLANS AND SPECIFICATIONS, OF THE TPDES GP TXR 150000.

THE CONTRACTOR WILL BE CONSIDERED AN OPERATOR UNDER THE TPDES GP TXR 150000 AND RESPONSIBLE FOR PART III, SECTION B.2, OPERATORS WITH DAY-TO-DAY OPERATIONAL CONTROL, OF THE TPDES GP TXR 150000 FOR CONSTRUCTION IN THE RIGHT OF WAY. IN ADDITION TO THE DEPARTMENTS FILING, THE CONTRACTOR SHALL FILE A NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) ALONG WITH OTHER REQUIREMENTS AS THE ENTITY OF HAVING DAY-TO-DAY OPERATIONAL CONTROL OF THE CONSTRUCTION ACTIVITIES IN THE AIRPORT. THIS IS IN ADDITION TO THE CONTRACTOR BEING RESPONSIBLE FOR THE TPDES GP TXR 150000 AND PART III, SECTION B.1, AND B.2, REQUIREMENTS FOR ON- RIGHT OF WAY AND OFF- RIGHT OF WAY PROJECT SPECIFIC LOCATIONS. ADHERE TO ALL REQUIREMENTS OF THE SW3P AS PROVIDED IN THE PLANS AND SPECIFICATIONS.

VEGETATIVE WATERING FOR ESTABLISHING SEED AND SOD
ITEM 168* VEGETATIVE WATERING TGL

WATERING SCHEDULE

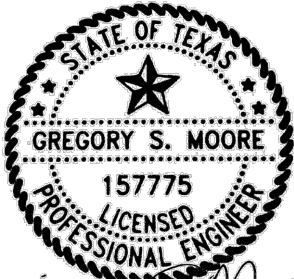
SEASON (Usual Months)	RATE	TIME SCHEDULE	TOTAL WATER ESTIMATE
SPRING & FALL (March, April, May, and October)	7,000 gallons/acre per working day	Vegetative watering for seed shall begin on the day after rainfall described below and continue for 60 consecutive working days. Vegetative watering for sod shall begin on the day sod is placed and continue for a minimum of 15 consecutive working days.	420,000 gallons/acre (60 working days)
SUMMER (June through September)	12,000 gallons/acre per working day		720,000 gallons/acre (60 working days)
WINTER (November through February)	1000 gallons/acre per working day	Vegetative watering for seed and/or sod shall begin on the day after placement and continue for 15 consecutive working days	15,000 gallons/acre (15 working days)

Notes: Watering rate and frequency may be adjusted, with the approval of the Engineer, to meet site conditions (especially with sod). For informational purposes only: 1,000-gallons equals 1 TGL

VEGETATIVE WATERING NOTES:

- Refer to Item 168 for specifications, dimensions, volumes, and measurements that have been modified or not shown in plans. Materials and construction shall meet all specifications.
- Use clean water, free of industrial waste and other substances harmful to vegetation growth, per Item 168.2.
- For seeding, use Vegetative Watering to keep the seed bed moist during germination; not to provide initial watering. [After drill seeding, postpone watering operations until site receives at least 1/2-inch of natural rainfall in a single day. Also delay watering operations for warm season grasses until soil temperature exceeds 70 degrees F.]
- For sod, water immediately.
- All water distribution equipment shall be furnished and operated to provide water at a uniform and controllable rate. Use a metering device on all watering equipment.
- Evenly distribute water over entire area designated for seeding and/or sodding, using even spray patterns that do not disturb seed bed and/or dislodge seed from seed bed.
- Do not water between the hours of 12:00 p.m. and 6:00 p.m. when daytime temperatures exceed 95 degrees F.
- After initial establishment period, continue intermittent watering of newly established seed or sod at a rate of approximately 1-inch water/week, during summer months until end of contract.
- If 1/4-inch or more of rainfall occurs on site on any given working day, no vegetative watering will be needed on that working day. (Note: 1/4-inch of rain equals 7,000 gallons of water per acre.)
- Should the Contractor fail to apply the specified amount of water within the time allowed, any seed or sod in poor condition shall be replaced, fertilized, and watered at Contractor's expense.

ISSUED FOR BID



5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
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DR: A.D.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

EROSION CONTROL NOTES

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

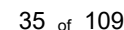
WOOLPERT PROJ. NO.
10022171.00.001.01

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G070

SHEET NO.

34 of 109





NOTES:

- SPECIFIC, KNOWN ENVIRONMENTALLY SENSITIVE AREAS ARE SHOWN THE PLAN. OTHER, UNIDENTIFIED ENVIRONMENTALLY SENSITIVE AREAS MAY EXIST OUTSIDE OF PROJECT AREA DEFINED IN THE PLAN.
- ALL ENVIRONMENTALLY SENSITIVE AREAS IDENTIFIED IN THE PLANS SHALL BE DEMARKED USING CONSTRUCTION FENCING, USING THE APPROPRIATE BUFFER DISTANCE.
- THE CONTRACTOR SHALL ENSURE CONFORMANCE WITH SPECIFIC ENVIRONMENTAL REQUIREMENTS FROM THE APPROVED ENVIRONMENTAL DOCUMENTATION:
 - WILDLIFE SPECIFIC REQUIREMENTS
 - WETLANDS SPECIFIC REQUIREMENTS
 - WATERWAYS SPECIFIC REQUIREMENTS
 - CULTURAL SITE SPECIFIC REQUIREMENTS
- THE CONTRACTOR IS REQUIRED TO CONFORM TO THE SITE LAYOUT, AS INDICATED IN THE CONSTRUCTION PLANS. THIS INCLUDES: PROJECT WORK LIMITS, HAUL ROUTES, STAGING AREAS, STORAGE AREAS, WASTE AREAS, AND BORROW AREAS.
- ALL CHANGES TO THE SITE LAYOUT SHALL BE REVIEWED AND APPROVED BY THE RPR PRIOR TO MAKING ANY CHANGES:
 - CONTRACTOR TO SUBMIT, IN WRITING TO THE RPR, A REQUEST TO MODIFY THE SITE LAYOUT (PROJECT WORK LIMITS, HAUL ROUTES, STAGING & STORAGE AREAS, BORROW & WASTE AREAS). IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ENOUGH DOCUMENTATION TO JUSTIFY THE CHANGE.
 - THE PROPOSED CHANGE WILL BE REVIEWED BY THE RPR AND THE SPONSOR.
 - THE RPR WILL COORDINATE WITH TxDOT ENVIRONMENTAL TO OBTAIN CLEARANCE. ALLOW AT LEAST 2 WEEKS FOR FAA APPROVAL. NO ADDITIONAL DAYS WILL BE PROVIDED FOR THE REVIEW & APPROVAL PERIOD.
 - SHOULD THE TxDOT DETERMINE THAT ADDITIONAL ENVIRONMENTAL REVIEWS ARE REQUIRED AS A RESULT OF THE PROPOSED CHANGES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION FOR ANY ENVIRONMENTAL REVIEWS.
 - A REVISED SITE LAYOUT PLAN WILL BE PRODUCED TO DOCUMENT THE CHANGE.

LEGEND

CONTRACTOR HAUL ROUTE
(2 WAY TRAFFIC)

PROJECT AREA

SF

SILT FENCE

GRADING LIMITS

IP

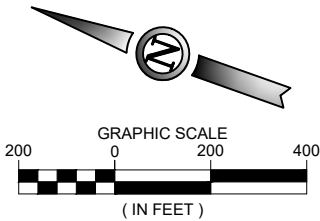
INLET PROTECTION

DC

DITCH CHECK

CP

CULVERT PROTECTION



ISSUED FOR BID

STATE OF TEXAS

GREGORY S. MOORE

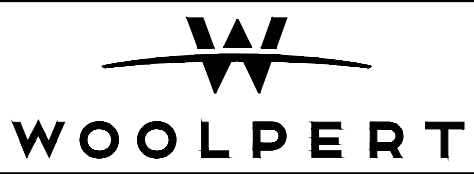
157775

PROFESSIONAL ENGINEER

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



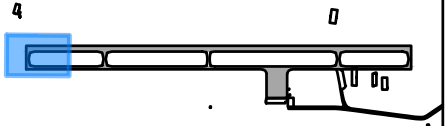
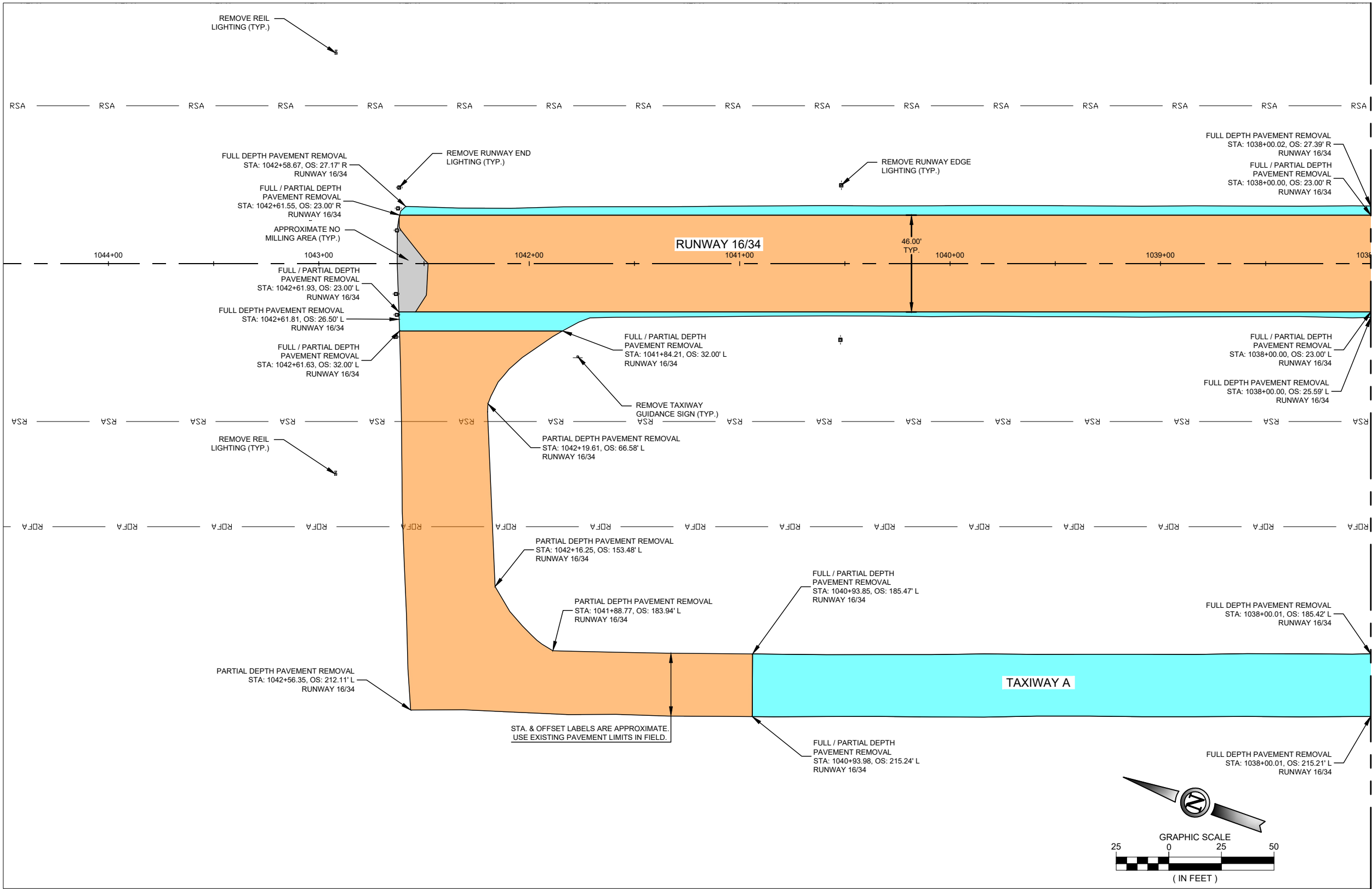
ENNIS MUNICIPAL
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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ENVIRONMENTAL EXHIBIT		G072
		SHEET NO.
STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	36 of 109

Printed June 5, 2026 @ 11:07 AM by Walker, Jude
\\acquisitions\projects\412224 runway widening, taxiway extension, airfield electrical\CAD\PLANS\010-041.TXD07-24-C100-DEMO.dwg



KEY MAP

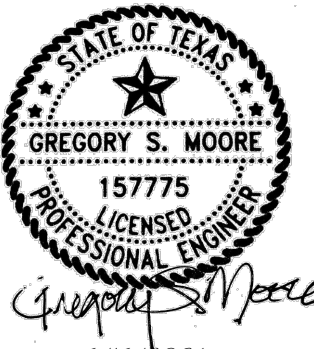
DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE
	NO PAVEMENT REMOVAL - DO NOT MILL (APPROXIMATE AREA)

NOTES

- SEE SHEETS C701-C709 FOR PAVEMENT MARKING LAYOUT PLANS.
- SEE SHEET C721 FOR PAVEMENT MARKING DETAILS.
- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL ELECTRICAL NOTES.
- SEE SHEETS E201-E207 FOR ELECTRICAL LAYOUT.
- SEE SHEETS E250-E256 FOR ELECTRICAL DETAILS.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL NOT BE DAMAGED BY THE CONTRACTOR. ANY DAMAGE TO THESE COMPONENTS WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR.
- THE CONTRACTOR SHALL REMOVE ALL WIRES AND CABLES FROM CONDUITS WHICH ARE TO BE ABANDONED. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF WIRES AND CABLES.
- THE MINIMUM ASPHALT OVERLAY THICKNESS ON THE RUNWAY SHALL BE 3 INCHES. THE CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO THE LIMITS SHOWN AND TO A DEPTH NECESSARY TO ENSURE THE MINIMUM OVERLAY THICKNESS AND THE PROPOSED FINISHED GRADES ARE MET. IN ACCORDANCE WITH TX-341. REFER TO THE PLANS FOR THE APPROXIMATE AREAS OF NO MILLING. THESE AREAS OCCUR WHERE THE PROPOSED FINISHED GRADE IS MORE THAN 3 INCHES ABOVE THE EXISTING PAVEMENT GRADE, AND MILLING IS NOT REQUIRED.
- ALL ITEMS FOR DEMOLITION SHALL BE PROPERLY DISPOSED OF OFFSITE EXCEPT THOSE DESIGNATED BY THE RPR. ITEMS TO BE SALVAGED WILL BE STOCKPILED AT A LOCATION APPROVED BY THE AIRPORT.

MATCHLINE STA. 1038+00 - SEE SHEET C102

ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

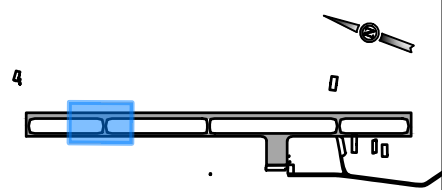
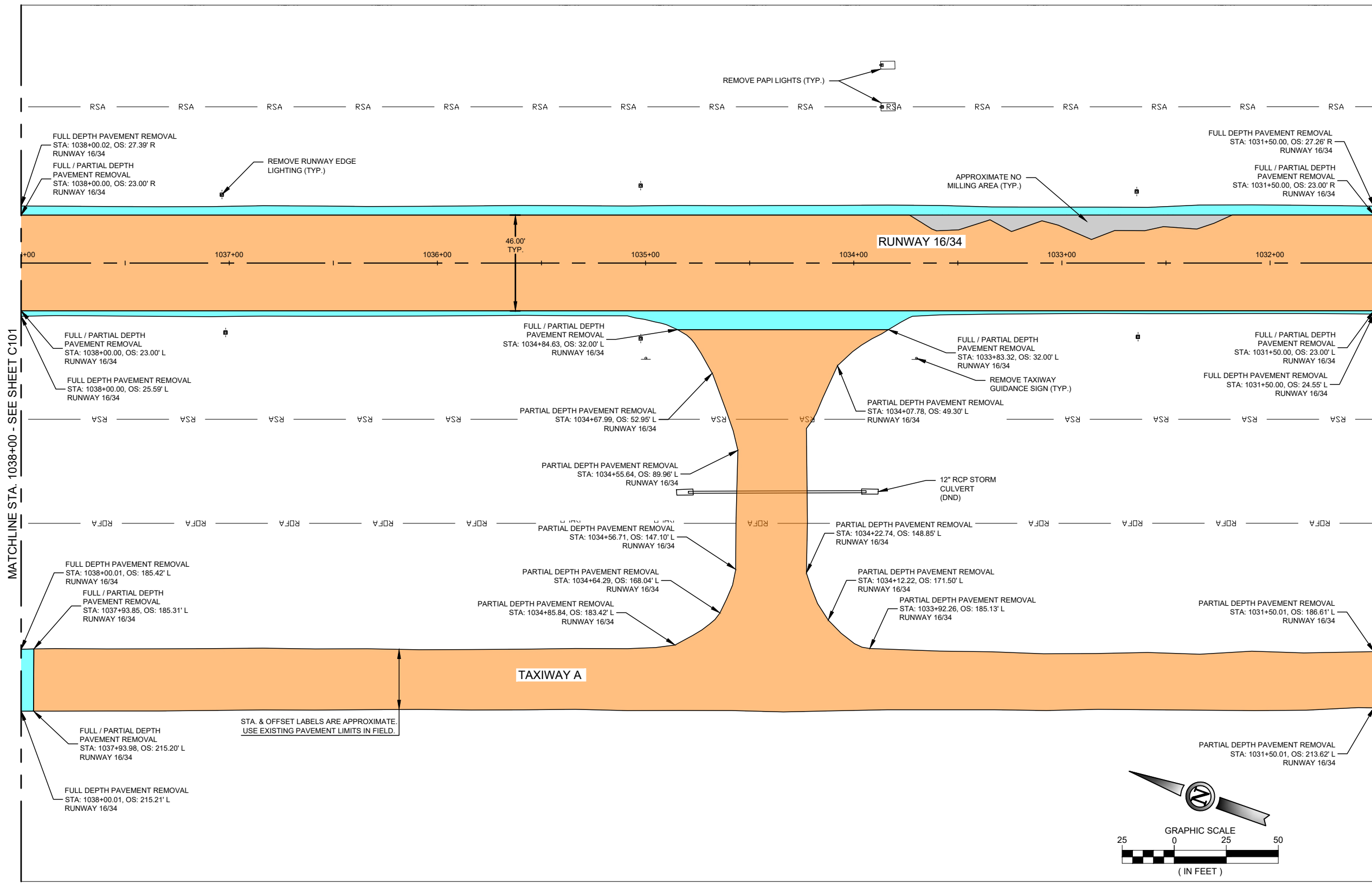
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1042+62.72 TO STA. 1038+00
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C101
SHEET NO.
37 of 109

Printed June 5, 2026 @ 11:07 AM by Walker, Jude
\\wac\projects\ENR\projects\112024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\010-041-TXDOT-24-C102-DEM0.dwg



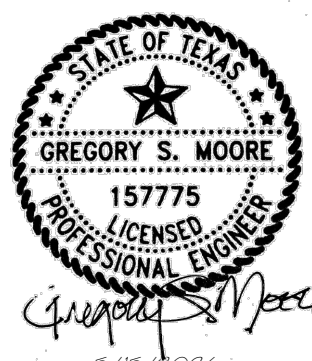
KEY MAP

DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
	NO PAVEMENT REMOVAL - DO NOT MILL (APPROXIMATE AREA)

NOTES

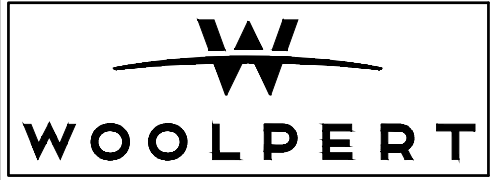
- SEE SHEETS C701-C709 FOR PAVEMENT MARKING LAYOUT PLANS.
- SEE SHEET C721 FOR PAVEMENT MARKING DETAILS.
- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL ELECTRICAL NOTES.
- SEE SHEETS E201-E207 FOR ELECTRICAL LAYOUT.
- SEE SHEETS E250-E256 FOR ELECTRICAL DETAILS.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
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- THE MINIMUM ASPHALT OVERLAY THICKNESS ON THE RUNWAY SHALL BE 3 INCHES. THE CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO THE LIMITS SHOWN AND TO A DEPTH NECESSARY TO ENSURE THE MINIMUM OVERLAY THICKNESS AND THE PROPOSED FINISHED GRADES ARE MET. IN ACCORDANCE WITH TX-341. REFER TO THE PLANS FOR THE APPROXIMATE AREAS OF NO MILLING. THESE AREAS OCCUR WHERE THE PROPOSED FINISHED GRADE IS MORE THAN 3 INCHES ABOVE THE EXISTING PAVEMENT GRADE, AND MILLING IS NOT REQUIRED.
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ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1038+00 TO STA. 1031+50
RUNWAY 16/34

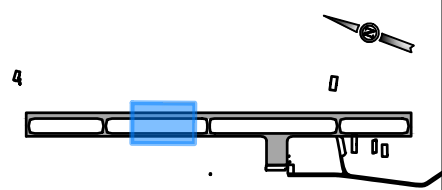
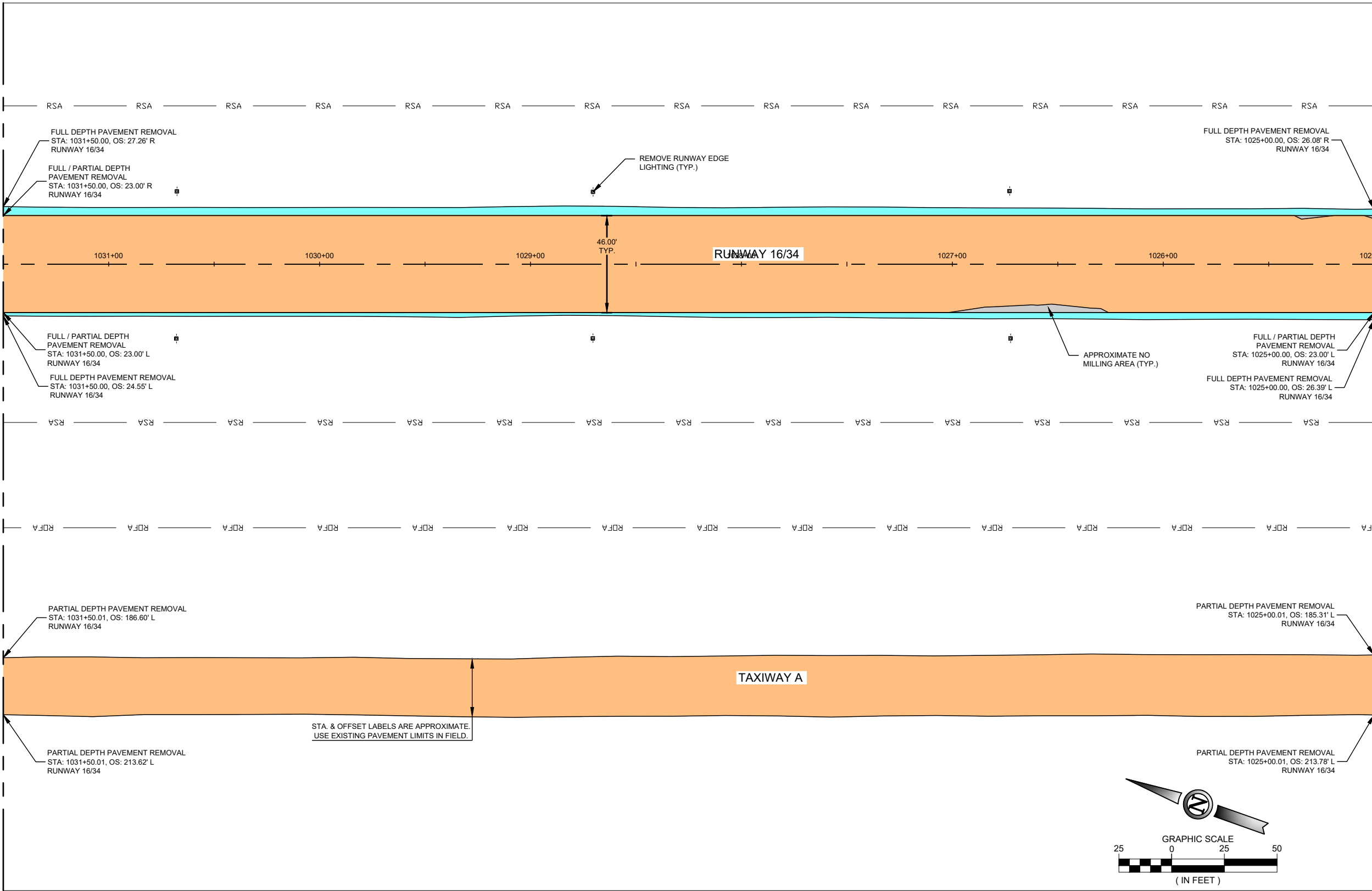
SHEET NAME
C102
SHEET NO.
38 of 109

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO.
10022171.00.001.01

Printed June 5, 2026 @ 11:07 AM by: Walker, Jude
\\acquisitions\projects\412026\runway widening, taxiway extension, airfield electrical\CAD\PLANS\0-D-41-TXDOT-24-C-103-DEMO.dwg

MATCHLINE STA. 1031+50 - SEE SHEET C102

MATCHLINE STA. 1025+00 - SEE SHEET C104



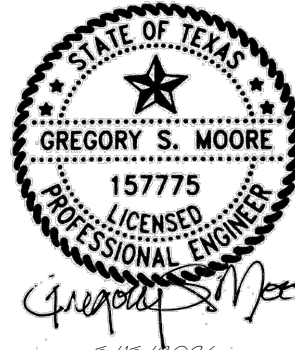
KEY MAP

DEMOLITION LEGEND

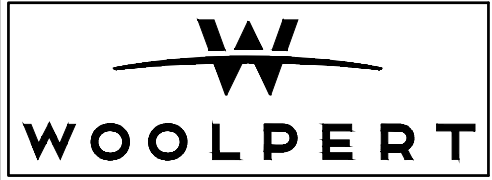
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
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 - SEE SHEET C721 FOR PAVEMENT MARKING DETAILS.
 - SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL ELECTRICAL NOTES.
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ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



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	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

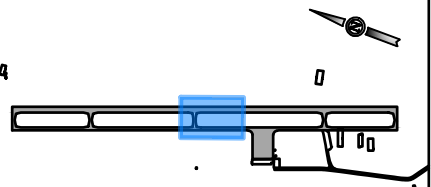
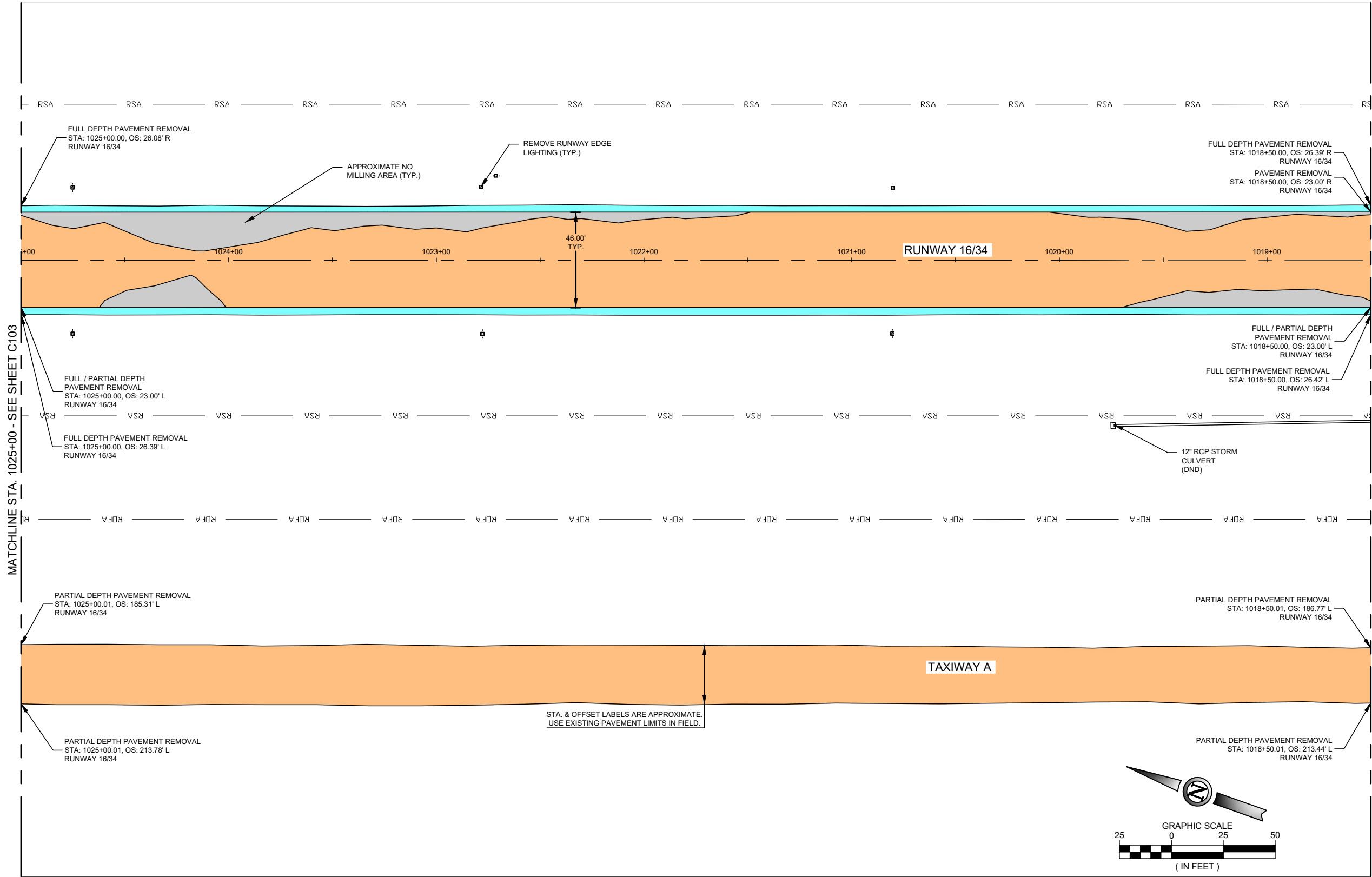
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1031+50 TO STA. 1025+00
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01
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SHEET NAME
C103
SHEET NO.
39 of 109

Printed June 5, 2026 @ 11:07 AM by Walker, Jude
\\aquilone\projects\1412224 runway widening, taxiway extension, airfield electrical\cadd\plans\10-141-TXDOT-24-C-100-DEMO.dwg

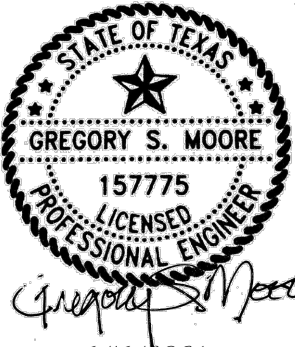


KEY MAP

DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
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GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
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APP: G.S.M.				

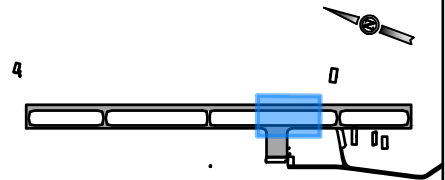
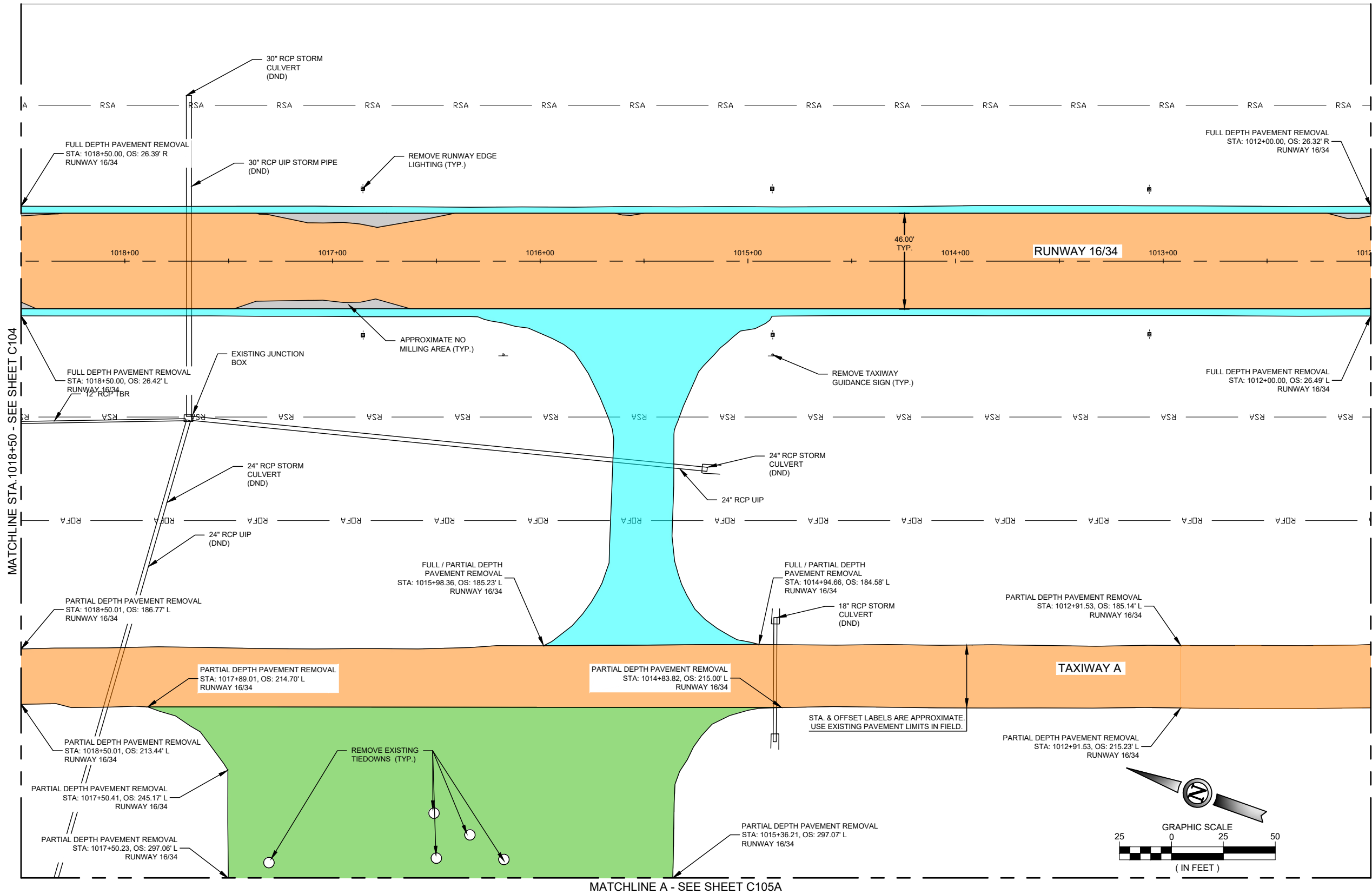
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1025+00 TO STA. 1018+50
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C104
SHEET NO.
40 of 109

Printed June 5, 2026 @ 11:07 AM by Walker, Jude
\\acquisitions\projects\1412024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\010-041-TXDOT-24-C105-DEM0.dwg



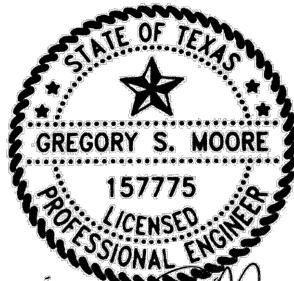
KEY MAP

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GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

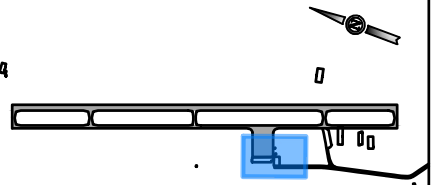
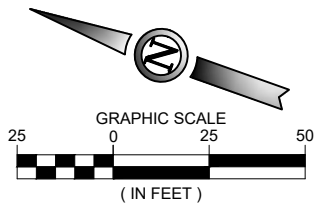
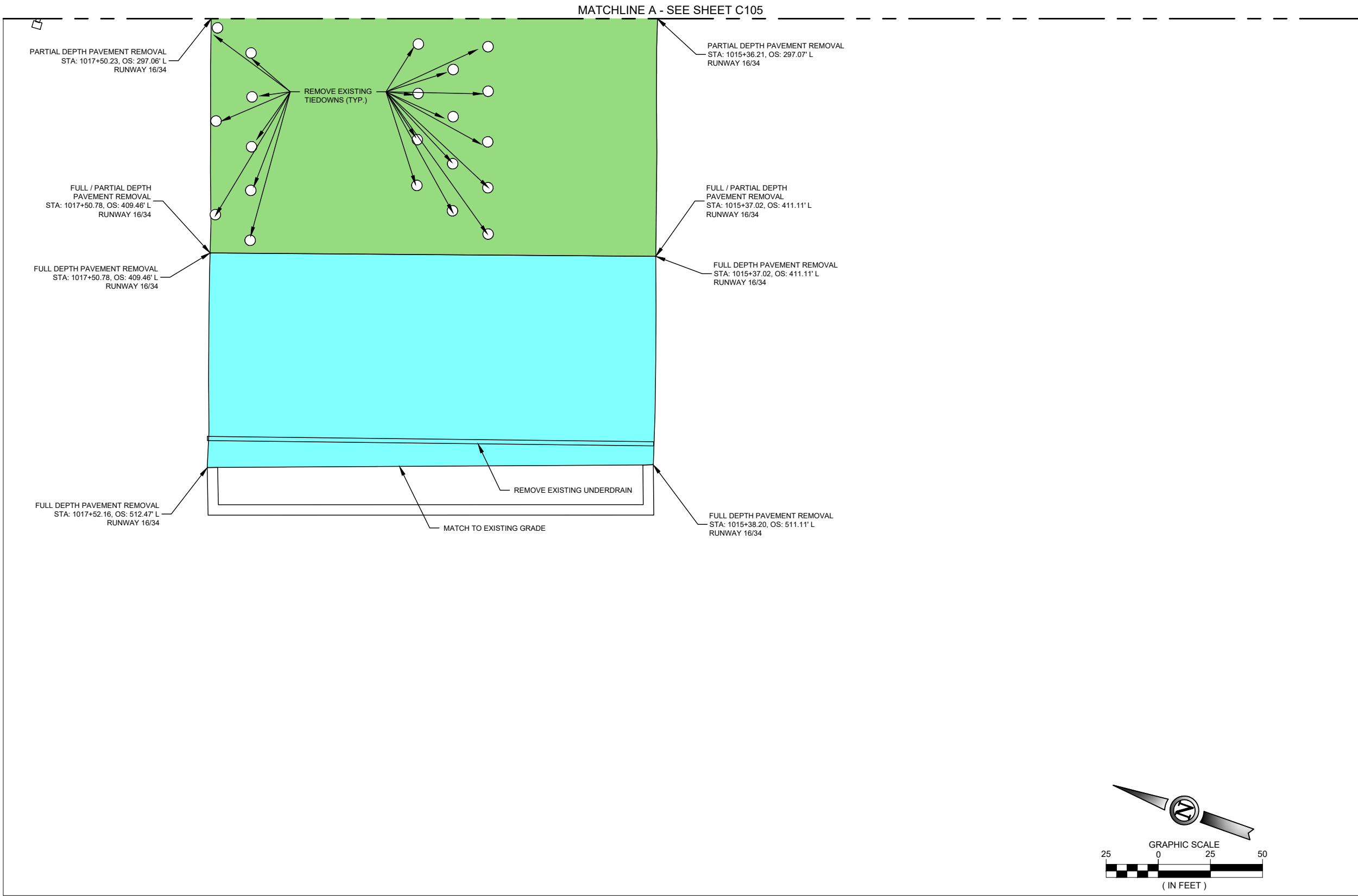
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1018+50 TO STA. 1012+00
RUNWAY 16/34 AND APRON

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C105
SHEET NO.
41 of 109

Printed June 5, 2026 @ 11:08 AM by Walker, Jude
P:\projects\2024\TXDOT\24-C100-DEM0.dwg



KEY MAP

DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
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ISSUED FOR BID



Gregory S. Moore
5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
MATCHLINE A
APRON

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

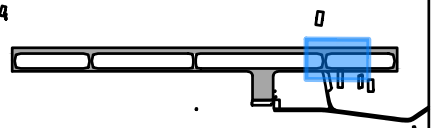
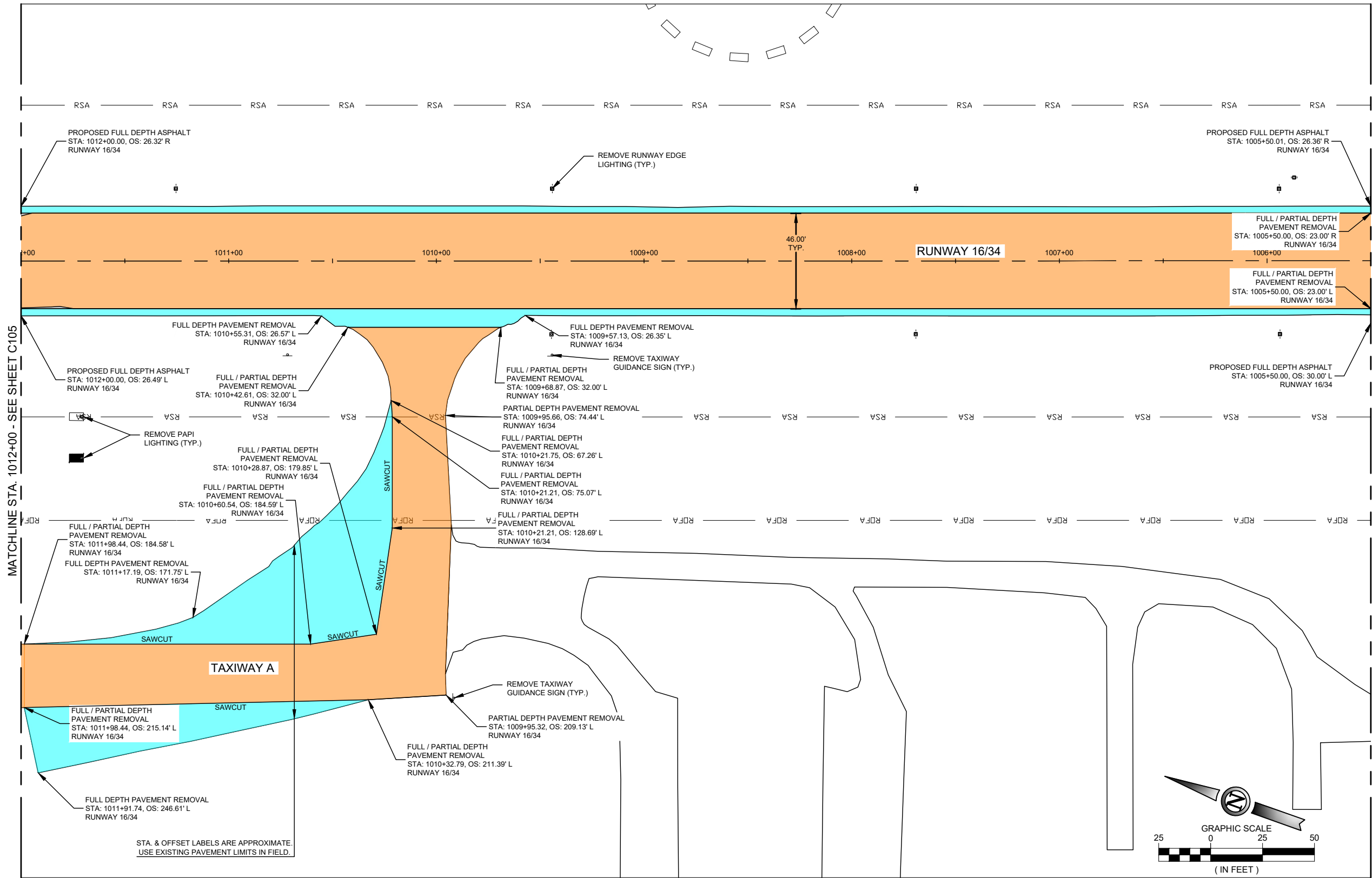
SHEET NAME

C105A

SHEET NO.

42 of 109

Printed June 5, 2026 @ 11:08 AM by Walker, Jude
P:\Projects\2024\Ennis Municipal Airport\2024 Runway Widening - Taxiway Extension, Airfield Electrical\F-CAD\PLANS\010-541-TXDOT-24-C100-DEM0.dwg



KEY MAP

DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
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ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1012+00 TO STA. 1005+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

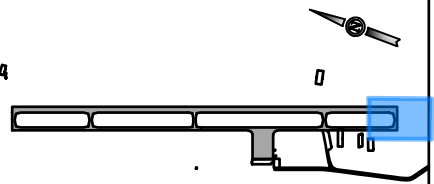
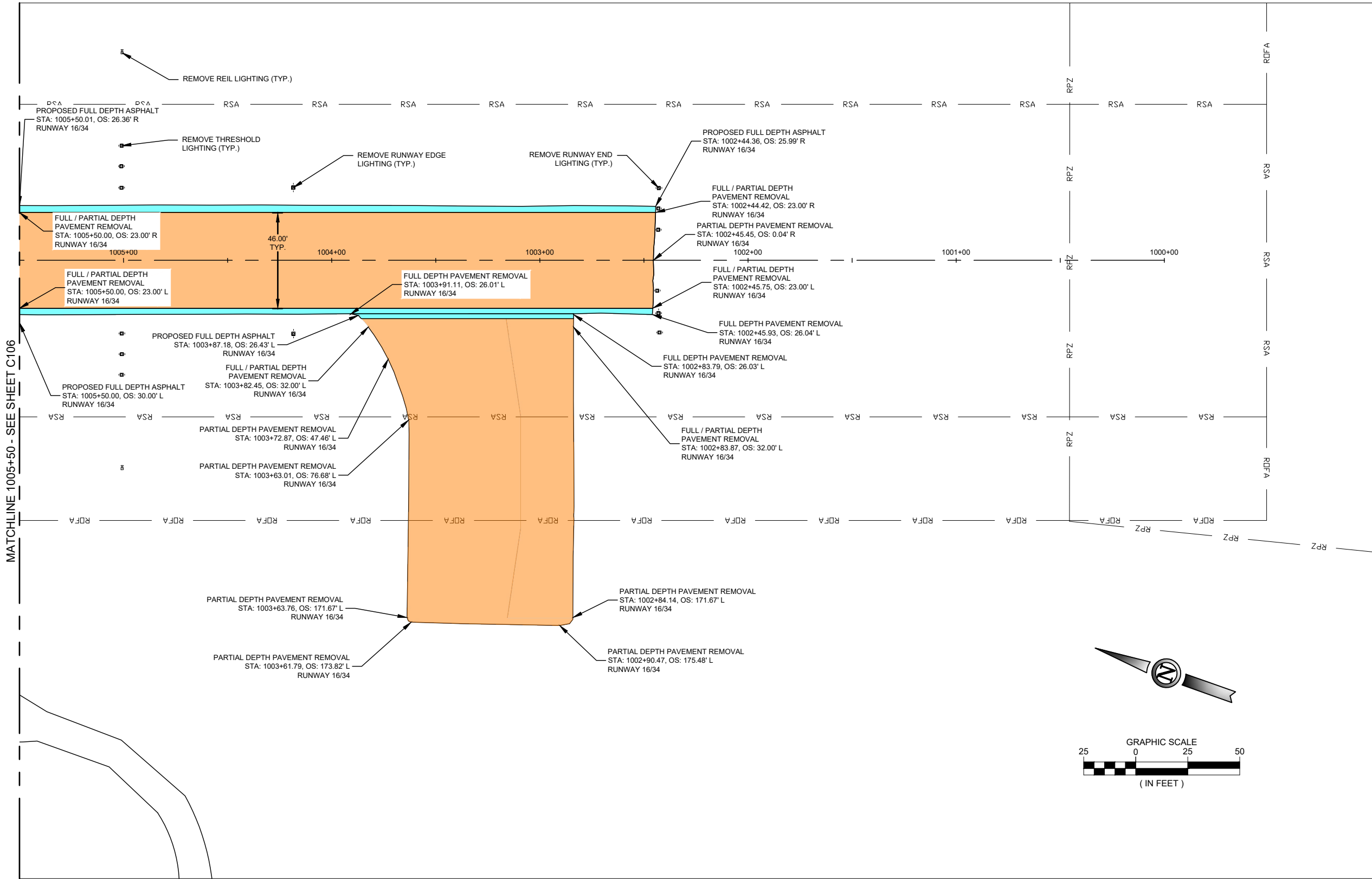
SHEET NAME

C106

SHEET NO.

43 of 109

Printed June 5, 2026 @ 11:08 AM by Walker, Jude
P:\projects\2024\100-DEM0.dwg



KEY MAP

DEMOLITION LEGEND

- PAVEMENT REMOVAL - FULL DEPTH
- PAVEMENT MILLING - VARIABLE DEPTH
- PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE
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ISSUED FOR BID

STATE OF TEXAS

GREGORY S. MOORE

157775

LICENSED PROFESSIONAL ENGINEER

Gregory S. Moore

5/15/2026

GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



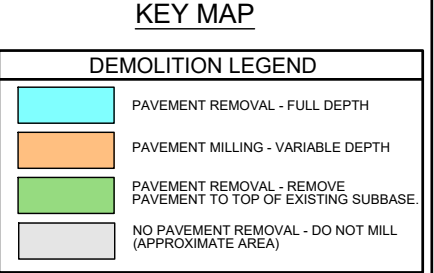
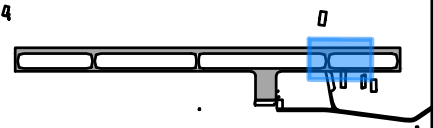
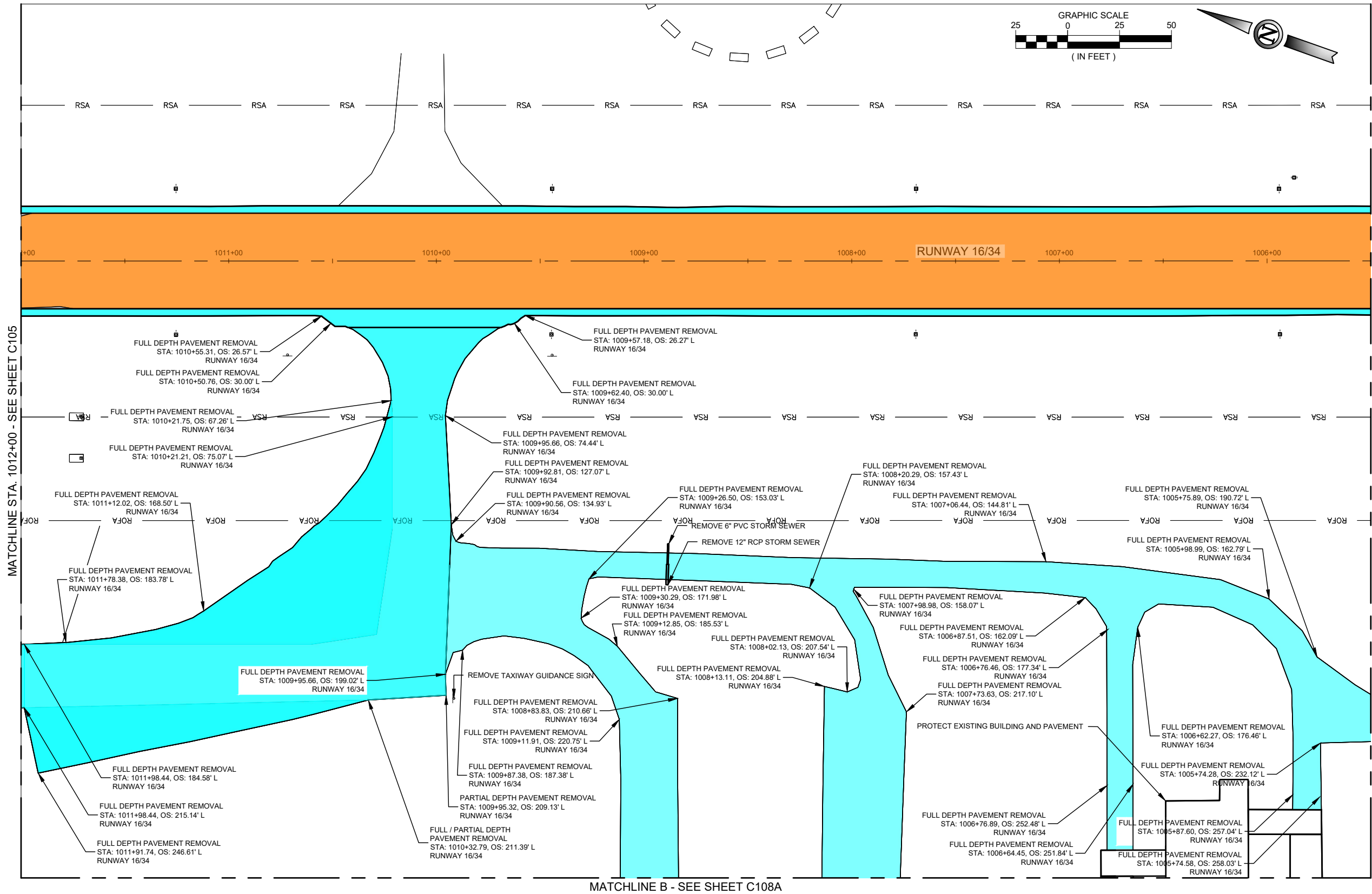
ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN STA. 1005+50 TO STA. 1002+44.29 RUNWAY 16/34		SHEET NAME
		C107
		SHEET NO.
STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	44 of 109

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P:\Projects\2024\10024 Runway Widening - Taxiway Extension, Airfield Electrical\F-CAD\PLANS\10-141-TXDOT-24-C108-DEM-BID-ALT.dwg



- NOTES**
- SEE SHEETS C701-C709 FOR PAVEMENT MARKING LAYOUT PLANS.
 - SEE SHEET C721 FOR PAVEMENT MARKING DETAILS.
 - SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL ELECTRICAL NOTES.
 - SEE SHEETS E201-E207 FOR ELECTRICAL LAYOUT.
 - SEE SHEETS E250-E256 FOR ELECTRICAL DETAILS.
 - CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
 - ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL NOT BE DAMAGED BY THE CONTRACTOR. ANY DAMAGE TO THESE COMPONENTS WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR.
 - THE CONTRACTOR SHALL REMOVE ALL WIRES AND CABLES FROM CONDUITS WHICH ARE TO BE ABANDONED. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF WIRES AND CABLES.
 - THE MINIMUM ASPHALT OVERLAY THICKNESS ON THE RUNWAY SHALL BE 3 INCHES. THE CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO THE LIMITS SHOWN AND TO A DEPTH NECESSARY TO ENSURE THE MINIMUM OVERLAY THICKNESS AND THE PROPOSED FINISHED GRADES ARE MET, IN ACCORDANCE WITH TX-341. REFER TO THE PLANS FOR THE APPROXIMATE AREAS OF NO MILLING. THESE AREAS OCCUR WHERE THE PROPOSED FINISHED GRADE IS MORE THAN 3 INCHES ABOVE THE EXISTING PAVEMENT GRADE, AND MILLING IS NOT REQUIRED.
 - ALL ITEMS FOR DEMOLITION SHALL BE PROPERLY DISPOSED OF OFFSITE EXCEPT THOSE DESIGNATED BY THE RPR. ITEMS TO BE SALVAGED WILL BE STOCKPILED AT A LOCATION APPROVED BY THE AIRPORT.

ISSUED FOR BID

STATE OF TEXAS

GREGORY S. MOORE

15775

PROFESSIONAL ENGINEER

Gregory S. Moore

5/15/2026

GREGORY S. MOORE PE NO. 15775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



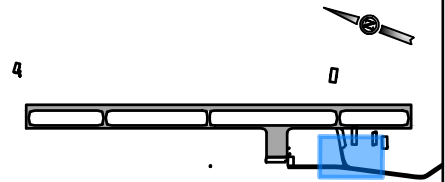
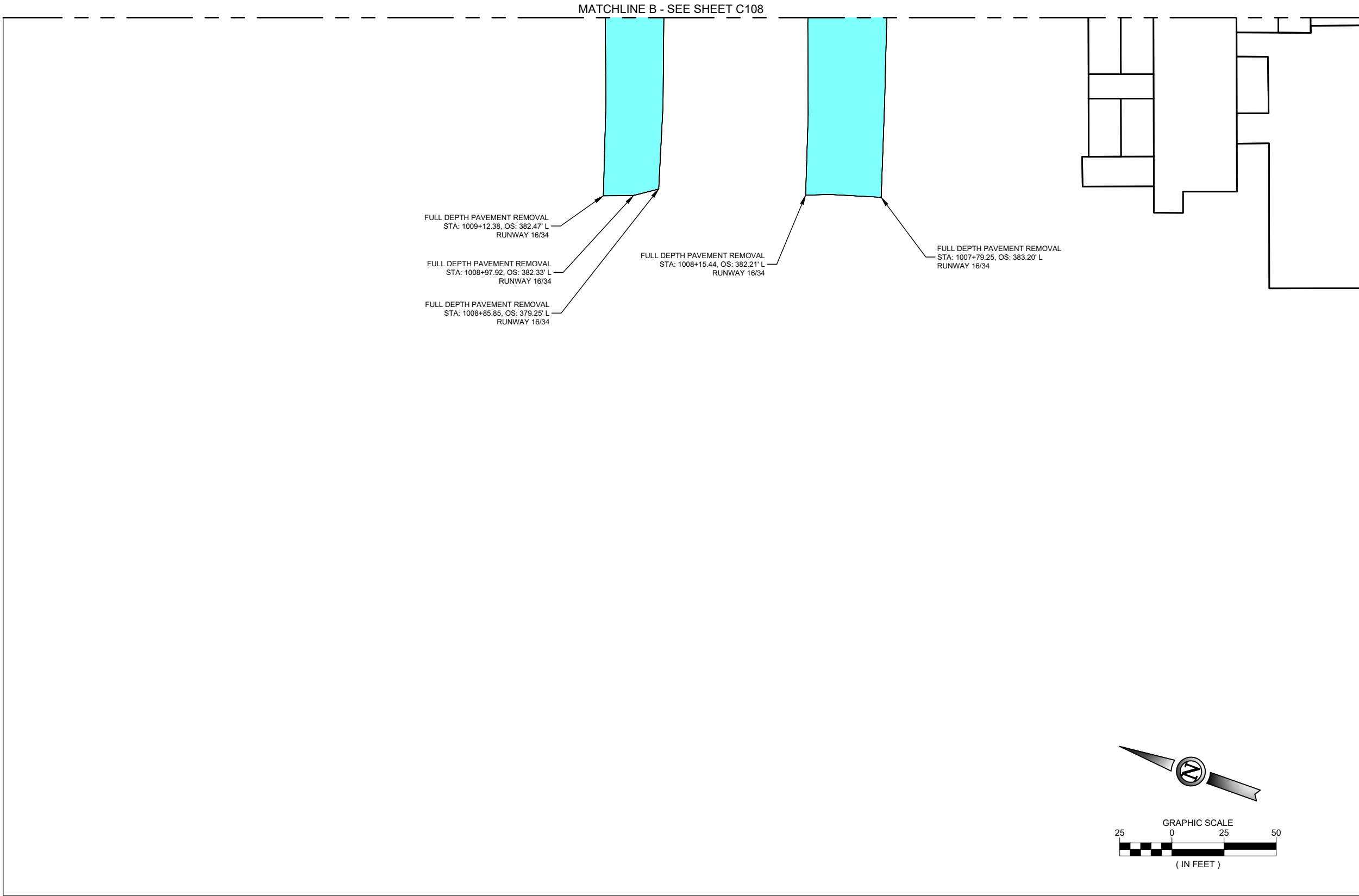
ENNIS MUNICIPAL
AIRPORT

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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN		SHEET NAME
STA. 1012+00 TO STA. 1005+50 RUNWAY 16/34, MATCHLINE B ADDITIVE ALTERNATE BID NO. 1		
		C108
		SHEET NO.
STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	45 of 109

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P:\projects\2024\100-DEMOC-BID-ALT.dwg



KEY MAP

DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
	NO PAVEMENT REMOVAL - DO NOT MILL (APPROXIMATE AREA)

NOTES

- SEE SHEETS C701-C709 FOR PAVEMENT MARKING LAYOUT PLANS.
- SEE SHEET C721 FOR PAVEMENT MARKING DETAILS.
- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL ELECTRICAL NOTES.
- SEE SHEETS E201-E207 FOR ELECTRICAL LAYOUT.
- SEE SHEETS E250-E256 FOR ELECTRICAL DETAILS.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL NOT BE DAMAGED BY THE CONTRACTOR. ANY DAMAGE TO THESE COMPONENTS WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR.
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- THE MINIMUM ASPHALT OVERLAY THICKNESS ON THE RUNWAY SHALL BE **3 INCHES**. THE CONTRACTOR SHALL MILL THE EXISTING PAVEMENT TO THE LIMITS SHOWN AND TO A DEPTH NECESSARY TO ENSURE THE MINIMUM OVERLAY THICKNESS AND THE PROPOSED FINISHED GRADES ARE MET. IN ACCORDANCE WITH TX-341. REFER TO THE PLANS FOR THE APPROXIMATE AREAS OF NO MILLING. THESE AREAS OCCUR WHERE THE PROPOSED FINISHED GRADE IS MORE THAN 3 INCHES ABOVE THE EXISTING PAVEMENT GRADE, AND MILLING IS NOT REQUIRED.
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ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
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APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1012+00 TO STA 1005+50
RUNWAY 16/34, MATCHLINE B
ADDITIVE ALTERNATE BID NO. 1

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

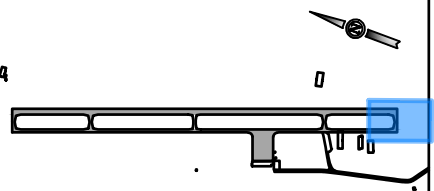
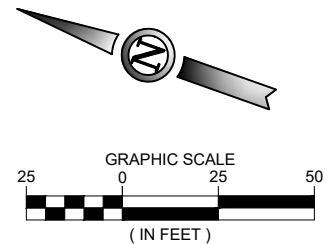
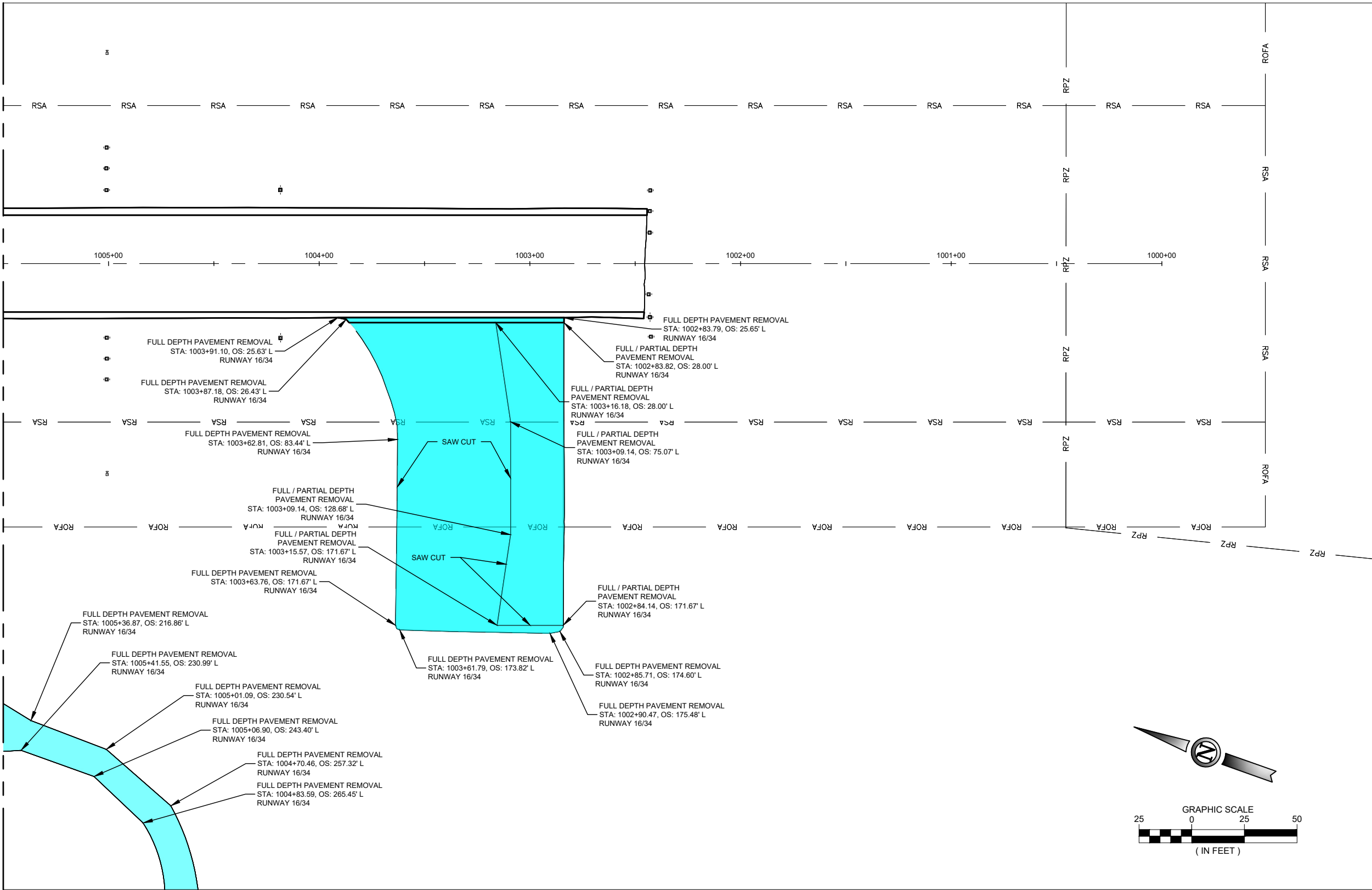
C108A

SHEET NO.

46 of 109

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P:\projects\2024\TXDOT\24-C100-DEM-BID-ALT.dwg

MATCHLINE STA. 1005+50 - SEE SHEET C108



KEY MAP

DEMOLITION LEGEND	
	PAVEMENT REMOVAL - FULL DEPTH
	PAVEMENT MILLING - VARIABLE DEPTH
	PAVEMENT REMOVAL - REMOVE PAVEMENT TO TOP OF EXISTING SUBBASE.
	NO PAVEMENT REMOVAL - DO NOT MILL (APPROXIMATE AREA)

NOTES

- SEE SHEETS C701-C709 FOR PAVEMENT MARKING LAYOUT PLANS.
- SEE SHEET C721 FOR PAVEMENT MARKING DETAILS.
- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL ELECTRICAL NOTES.
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ISSUED FOR BID



Gregory S. Moore
5/15/2026

GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DEMOLITION PLAN
STA. 1005+50 TO STA. 1002+44.29
RUNWAY 16/34
ADDITIVE ALTERNATE BID NO. 1

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

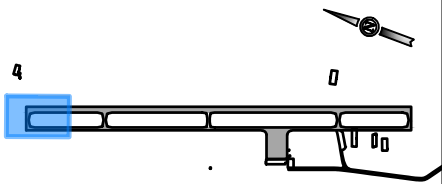
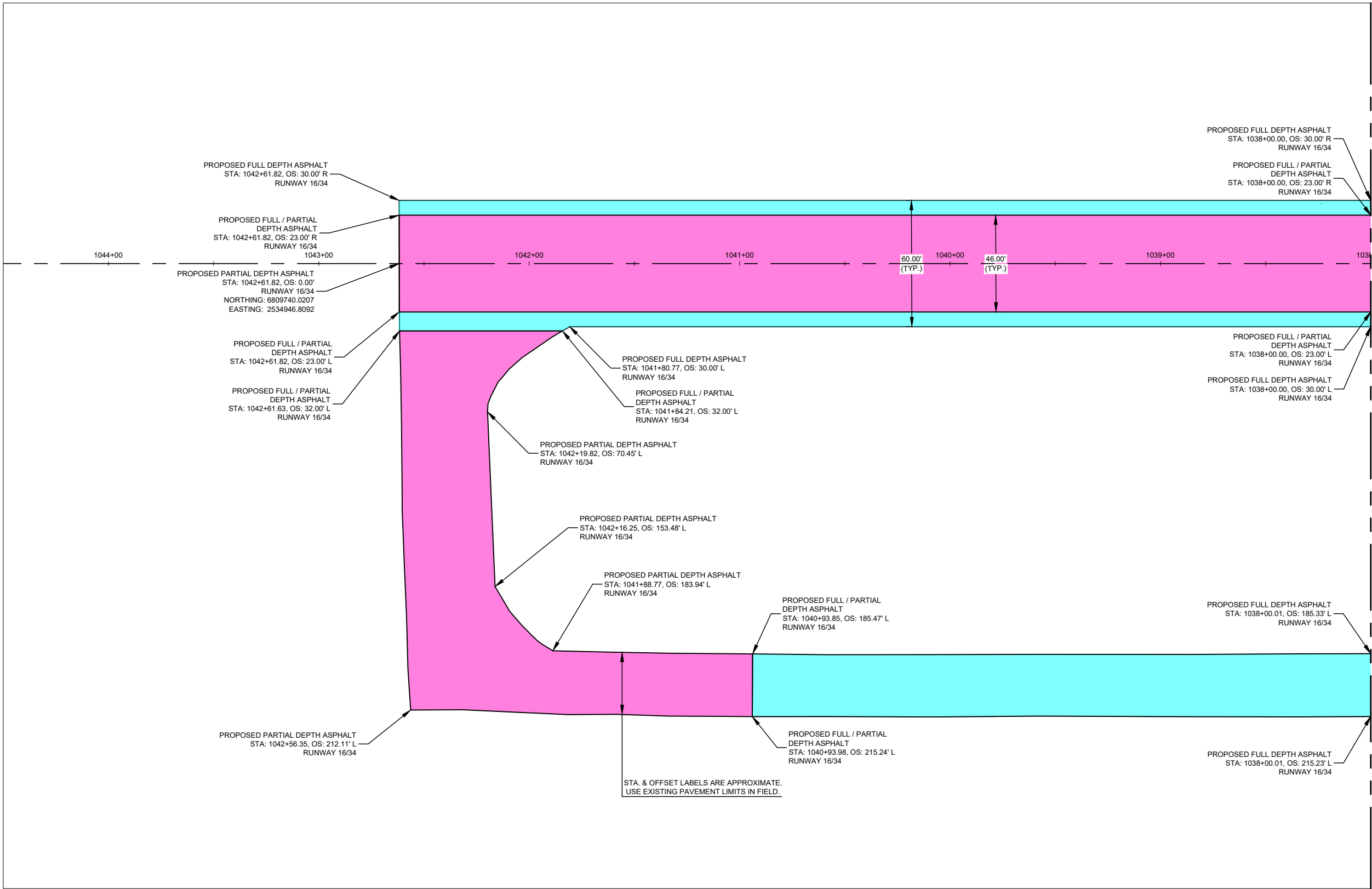
SHEET NAME

C109

SHEET NO.

47 of 109

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\\wac\projects\TXDOT\2024\runway widening, taxiway extension, airfield electrical\CAD\PLANS\2024\TXDOT-24-C200-GM1TY.dwg



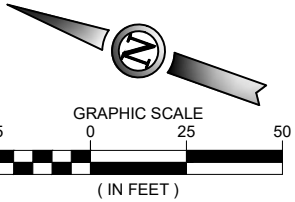
KEY MAP

GEOMETRY LEGEND

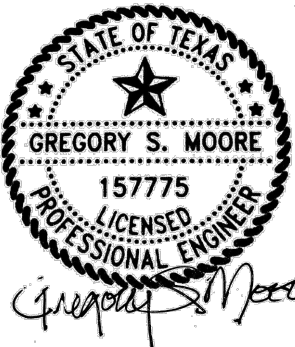
- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN GROUND ROD

GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
- SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION OUTSIDE THE PROPOSED PROJECT REMOVAL LIMITS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE SPONSOR.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- SEE SHEET E001 FOR ELECTRICAL LEGEND.
- SEE SHEETS C101 THRU C109 FOR ELECTRICAL DEMOLITION.
- SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

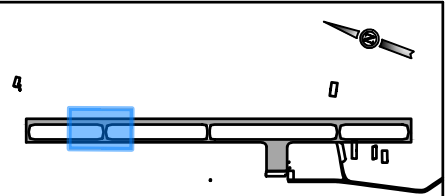
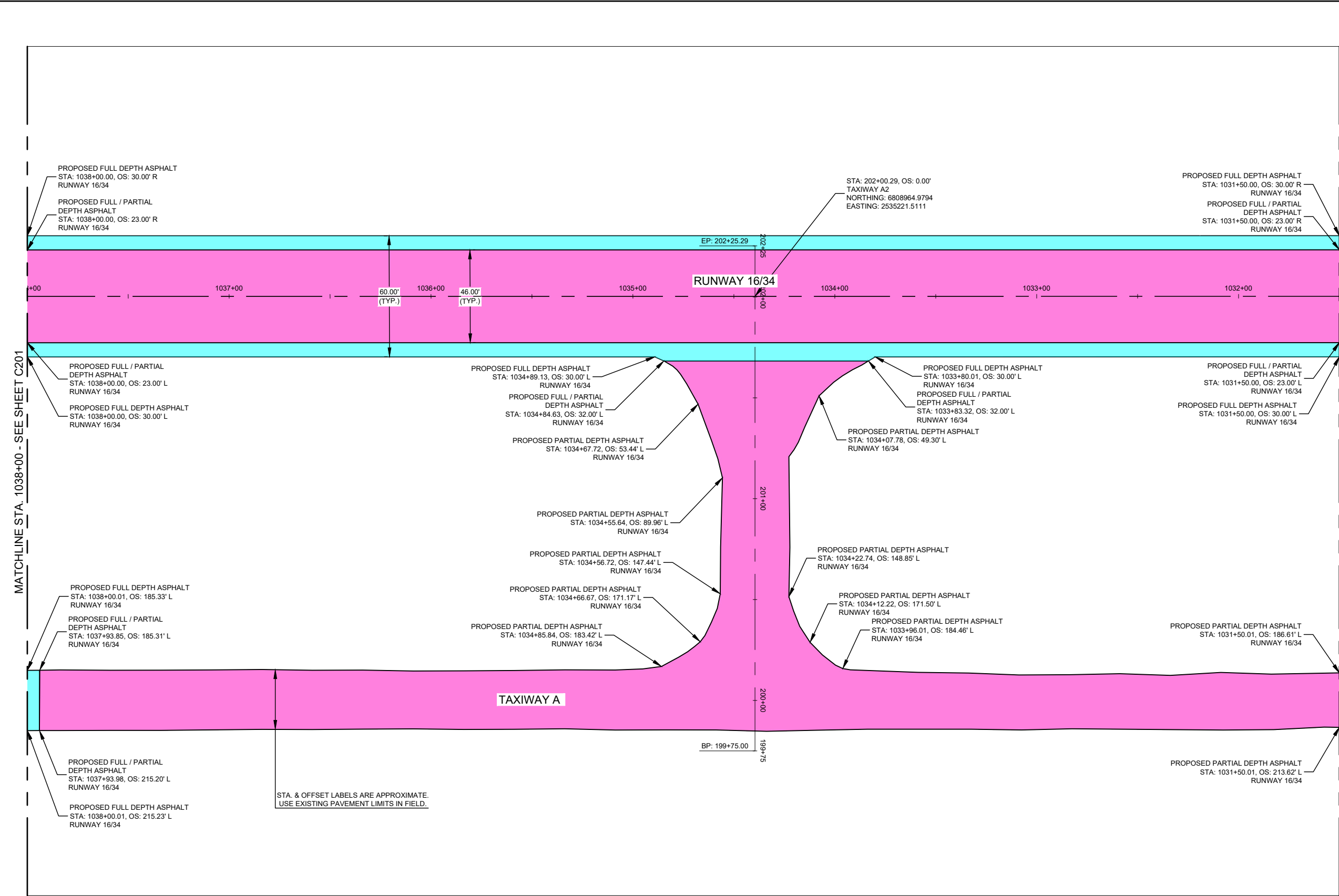
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
STA. 1042+61.82 TO STA. 1038+00
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO. 10022171.00.001.01

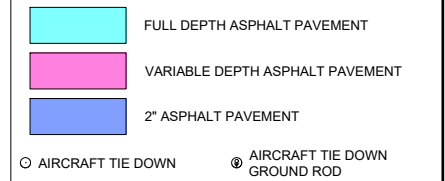
SHEET NAME
C201
SHEET NO.
48 of 109

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\\waulpert01\projects\1412024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\020-041-TXDOT-24-C200-GM1T.dwg



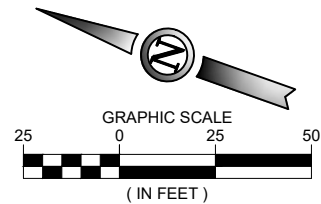
KEY MAP

GEOMETRY LEGEND

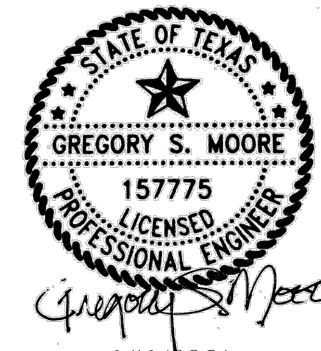


GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
- SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION OUTSIDE THE PROPOSED PROJECT REMOVAL LIMITS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE SPONSOR.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- SEE SHEET E001 FOR ELECTRICAL LEGEND.
- SEE SHEETS C101 THRU C109 FOR ELECTRICAL DEMOLITION.
- SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN STA. 1038+00 TO STA. 1031+50 RUNWAY 16/34		SHEET NAME C202
		SHEET NO. 49 of 109
STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	

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\\waulpert01\projects\1412026 runway widening, taxiway extension, airfield electrical\CAD\PLANS\020-F41-TXDOT-24-C203-GMITY.dwg

MATCHLINE STA. 1031+50 - SEE SHEET C202

MATCHLINE STA. 1025+00 - SEE SHEET C204

PROPOSED FULL DEPTH ASPHALT
STA: 1031+50.00, OS: 30.00' R
RUNWAY 16/34
PROPOSED FULL / PARTIAL
DEPTH ASPHALT
STA: 1031+50.00, OS: 23.00' R
RUNWAY 16/34

PROPOSED FULL / PARTIAL
DEPTH ASPHALT
STA: 1031+50.00, OS: 23.00' L
RUNWAY 16/34
PROPOSED FULL DEPTH ASPHALT
STA: 1031+50.00, OS: 30.00' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1031+50.01, OS: 186.61' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1031+50.01, OS: 213.62' L
RUNWAY 16/34

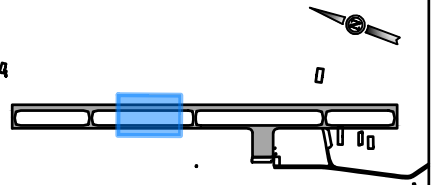
PROPOSED FULL DEPTH ASPHALT
STA: 1025+00.00, OS: 30.00' R
RUNWAY 16/34
PROPOSED FULL / PARTIAL
DEPTH ASPHALT
STA: 1025+00.00, OS: 23.00' R
RUNWAY 16/34

PROPOSED FULL / PARTIAL
DEPTH ASPHALT
STA: 1025+00.00, OS: 23.00' L
RUNWAY 16/34
PROPOSED FULL DEPTH ASPHALT
STA: 1025+00.00, OS: 30.00' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1025+00.01, OS: 185.31' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1025+00.01, OS: 213.78' L
RUNWAY 16/34

STA. & OFFSET LABELS ARE APPROXIMATE.
USE EXISTING PAVEMENT LIMITS IN FIELD.



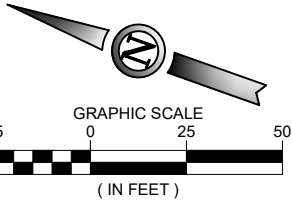
KEY MAP

GEOMETRY LEGEND

- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN
GROUND ROD

GEOMETRY NOTES

1. CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
2. ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
3. SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
4. SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
5. SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
6. ANY PAVEMENT DAMAGE DURING CONSTRUCTION OUTSIDE THE PROPOSED PROJECT REMOVAL LIMITS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE SPONSOR.
7. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
8. SEE SHEET E001 FOR ELECTRICAL LEGEND.
9. SEE SHEETS C101 THRU C109 FOR ELECTRICAL DEMOLITION.
10. SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
11. SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOOREPE NO. 1577755/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
STA. 1031+50 TO STA. 1025+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

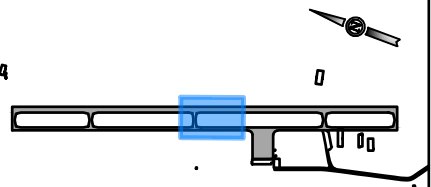
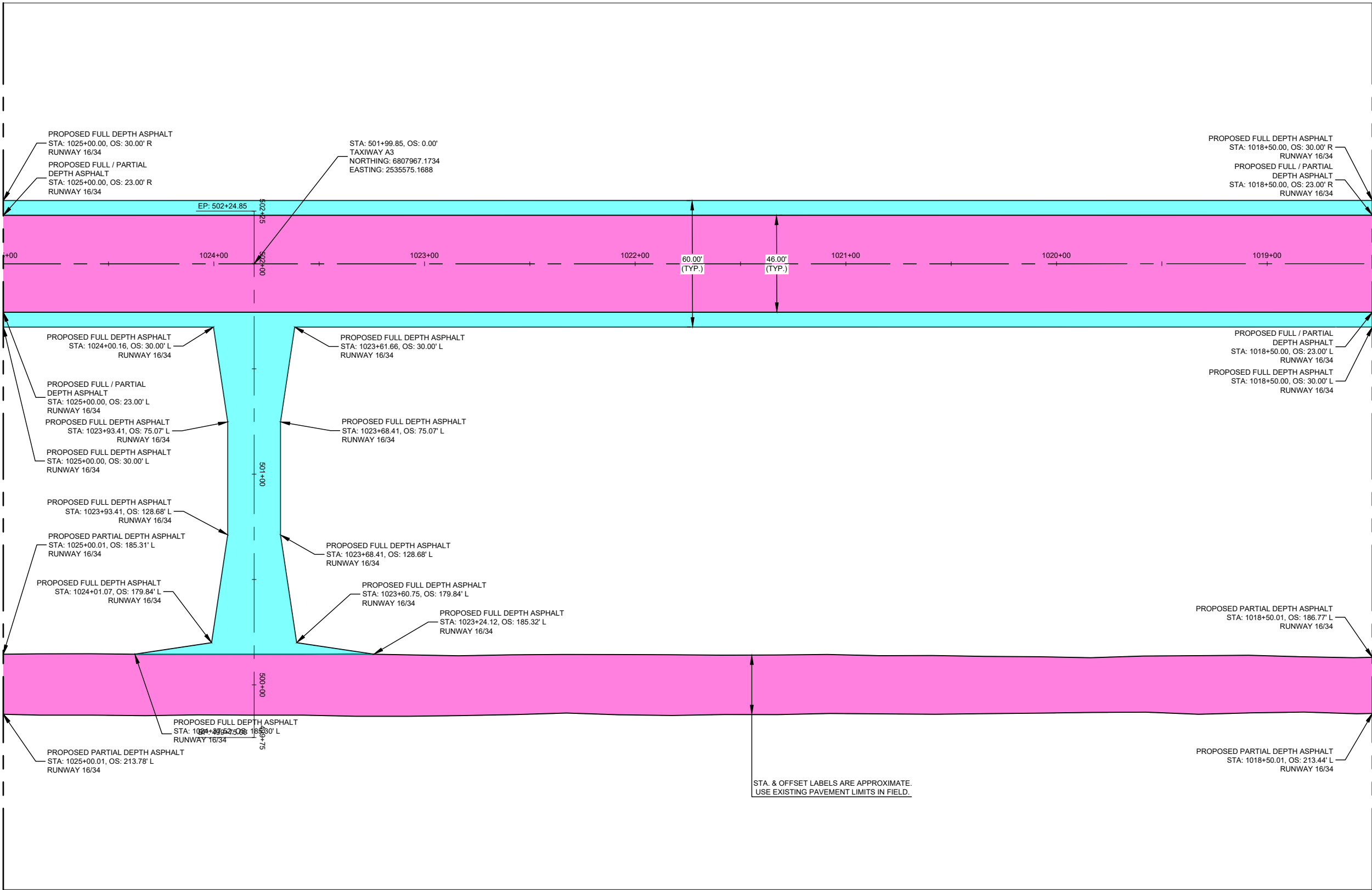
SHEET NAME
C203

SHEET NO.
50 of 109

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\\acquisitions\projects\122024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\020-041.TXD07-24-C200-GMITY.dwg

MATCHLINE STA. 1025+00 - SEE SHEET C203

MATCHLINE STA. 1018+50 - SEE SHEET C205



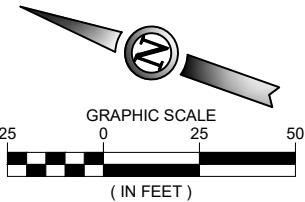
KEY MAP

GEOMETRY LEGEND

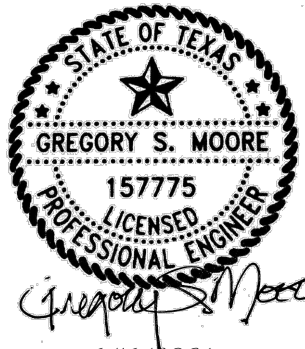
- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN GROUND ROD

GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
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- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
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APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
STA. 1025+00 TO STA. 1018+50
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C204
SHEET NO.
51 of 109

Printed June 5, 2026 @ 11:10 AM by: Walker, Jude
\\waulpert01\projects\1412026 runway widening, taxiway extension, airfield electrical\CAD\PLANS\020-541_TXDOT-24-C205-GMTY.dwg

MATCHLINE STA. 1018+50 - SEE SHEET C204

PROPOSED FULL DEPTH ASPHALT
STA: 1018+50.00, OS: 30.00' R
RUNWAY 16/34
PROPOSED FULL / PARTIAL
DEPTH ASPHALT
STA: 1018+50.00, OS: 23.00' R
RUNWAY 16/34

PROPOSED FULL / PARTIAL
DEPTH ASPHALT
STA: 1018+50.00, OS: 23.00' L
RUNWAY 16/34
PROPOSED FULL DEPTH ASPHALT
STA: 1018+50.00, OS: 30.00' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1018+50.01, OS: 186.77' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1018+50.01, OS: 213.44' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1017+50.41, OS: 245.17' L
RUNWAY 16/34

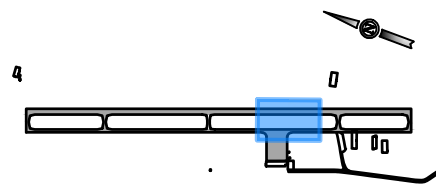
PROPOSED PARTIAL DEPTH ASPHALT
STA: 1017+50.71, OS: 297.06' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1015+35.65, OS: 297.07' L
RUNWAY 16/34

PROPOSED PARTIAL DEPTH ASPHALT
STA: 1014+73.77, OS: 214.81' L
RUNWAY 16/34

STA. & OFFSET LABELS ARE APPROXIMATE.
USE EXISTING PAVEMENT LIMITS IN FIELD.

MATCHLINE A - SEE SHEET C205A



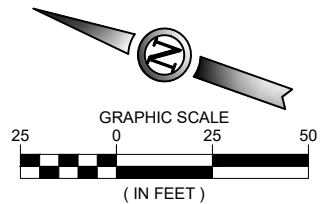
KEY MAP

GEOMETRY LEGEND

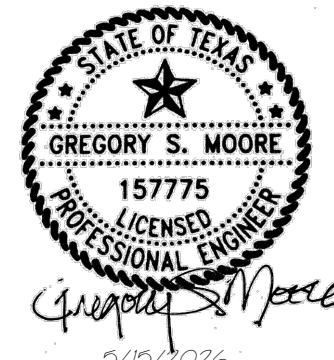
-  FULL DEPTH ASPHALT PAVEMENT
-  VARIABLE DEPTH ASPHALT PAVEMENT
-  2" ASPHALT PAVEMENT
-  AIRCRAFT TIE DOWN  AIRCRAFT TIE DOWN GROUND ROD

GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
- SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION OUTSIDE THE PROPOSED PROJECT REMOVAL LIMITS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE SPONSOR.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- SEE SHEET E001 FOR ELECTRICAL LEGEND.
- SEE SHEETS C101 THRU C109 FOR ELECTRICAL DEMOLITION.
- SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
STA. 1018+50 TO STA. 1012+00 AND MATCHLINE A
RUNWAY 16/34

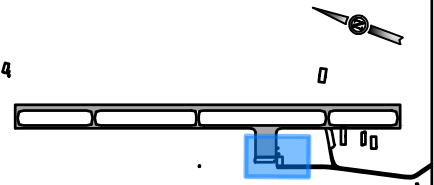
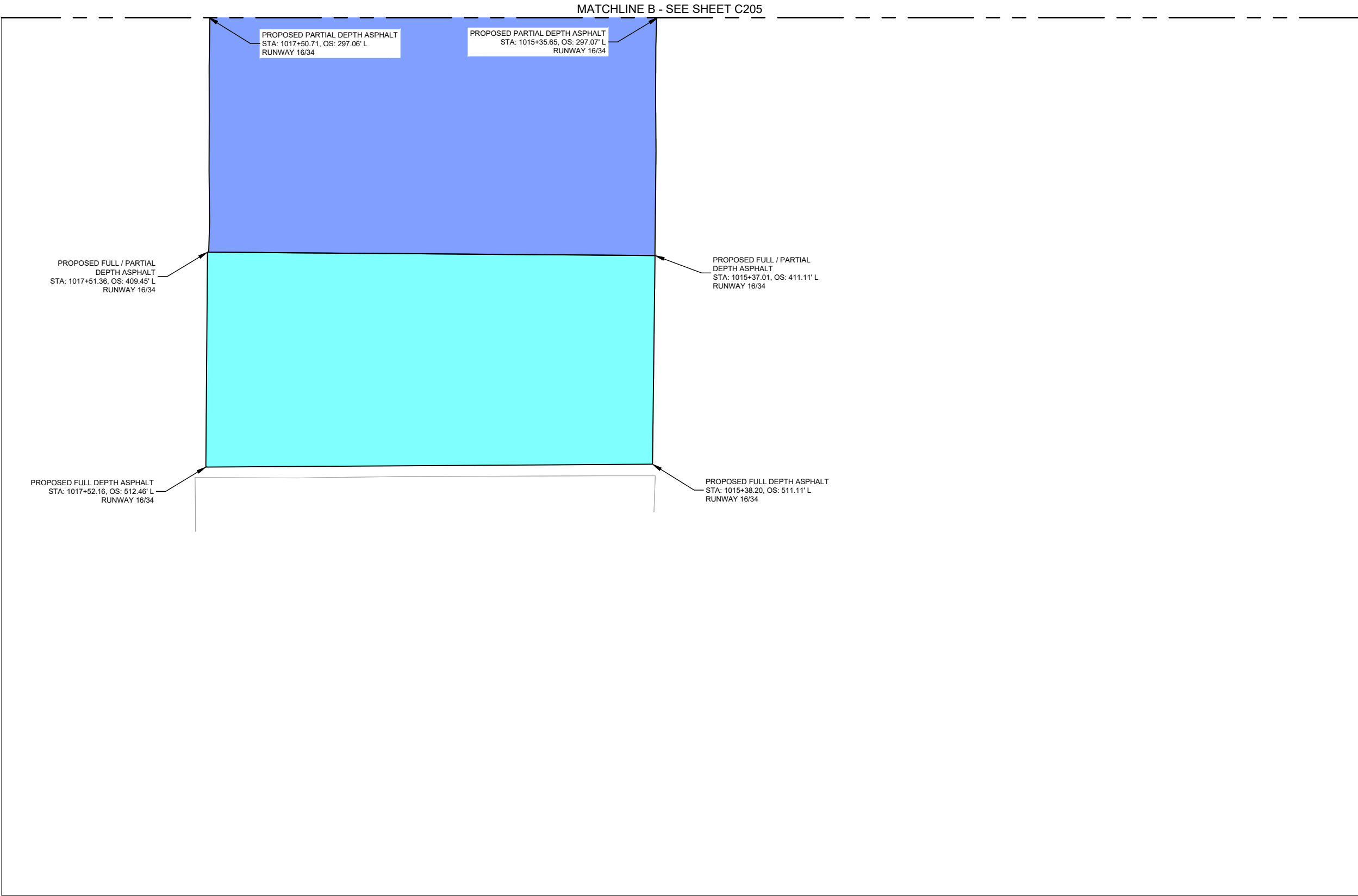
STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
C205

SHEET NO.
52 of 109

Printed June 5, 2026 @ 11:11 AM by: Walker, Jude
P:\Projects\2024\Runway Widening - Taxiway Extension, Airfield Electrical\F - CAD\PLANS\2024\41-TXDOT-24-C205A-GMTY.dwg



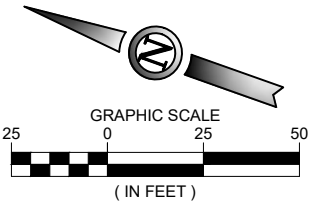
KEY MAP

GEOMETRY LEGEND

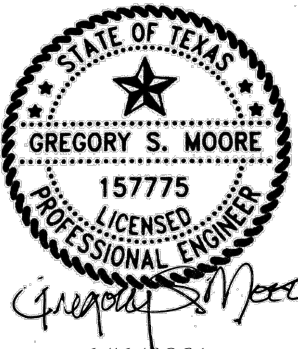
- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN
GROUND ROD

GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
- SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION OUTSIDE THE PROPOSED PROJECT REMOVAL LIMITS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE SPONSOR.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- SEE SHEET E001 FOR ELECTRICAL LEGEND.
- SEE SHEETS C101 THRU C109 FOR ELECTRICAL DEMOLITION.
- SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
MATCHLINE A
APRON

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C205A

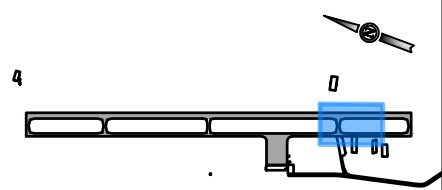
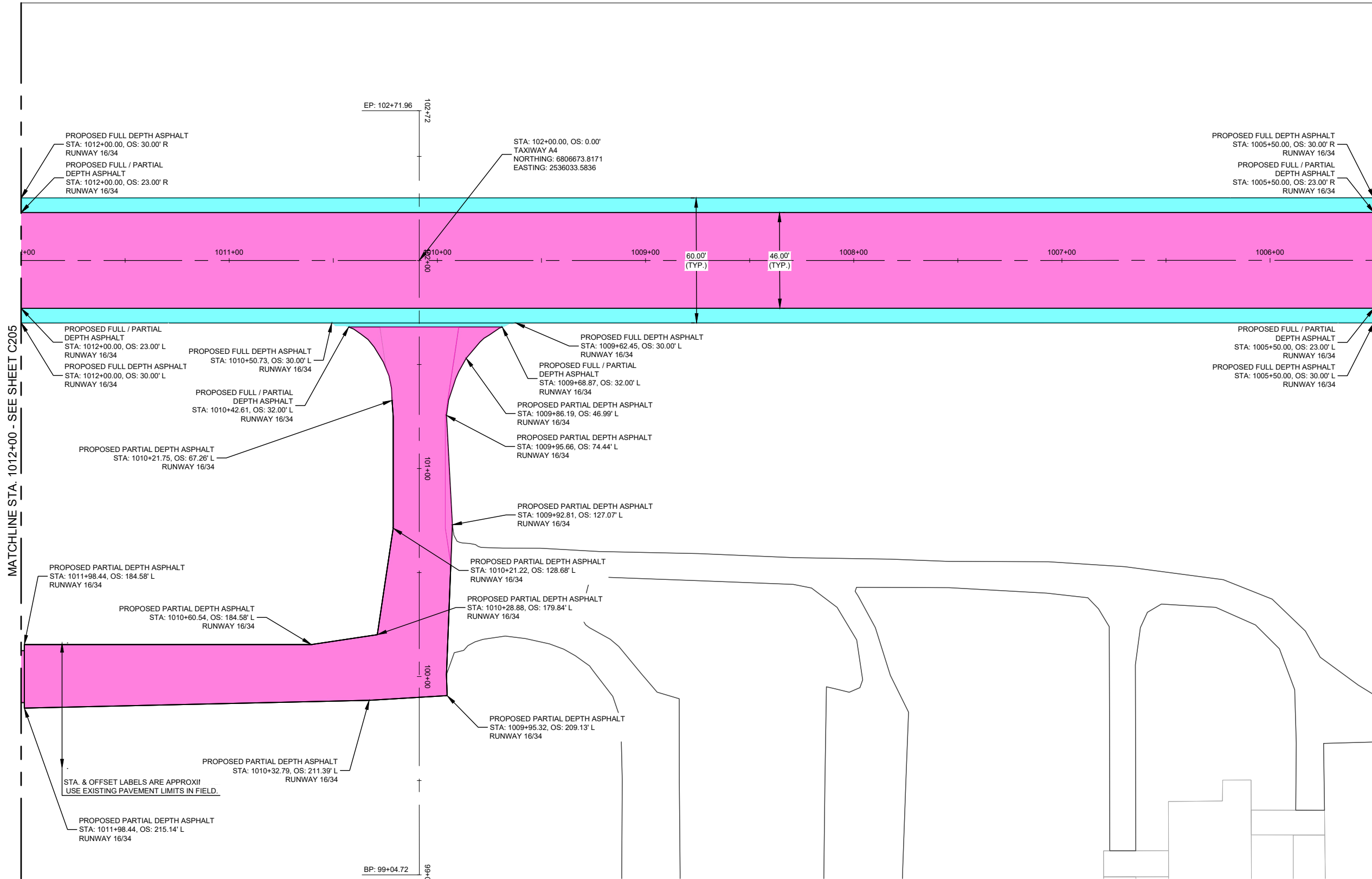
SHEET NO.

53 of 109

Printed June 5, 2026 @ 11:11 AM by: Walker, Jude
\\wac\projects\TXDOT\projects\1412026\runway widening\airfield electrical\CAD\PLANS\020-F41-TXDOT-24-C206-GM1.dwg

MATCHLINE STA. 1012+00 - SEE SHEET C205

MATCHLINE STA. 1005+50 - SEE SHEET C207



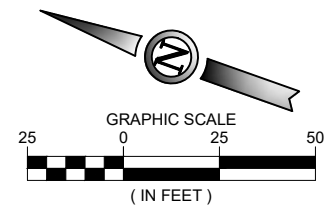
KEY MAP

GEOMETRY LEGEND

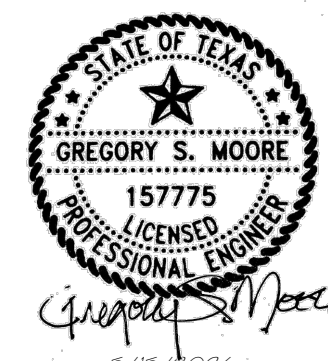
- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN GROUND ROD

GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
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- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
- SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
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- SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.

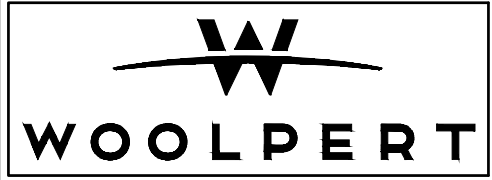


ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
STA. 1012+00 TO STA. 1005+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

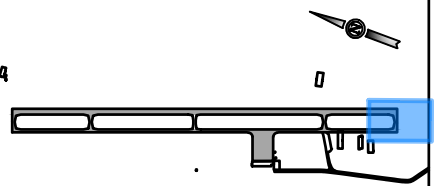
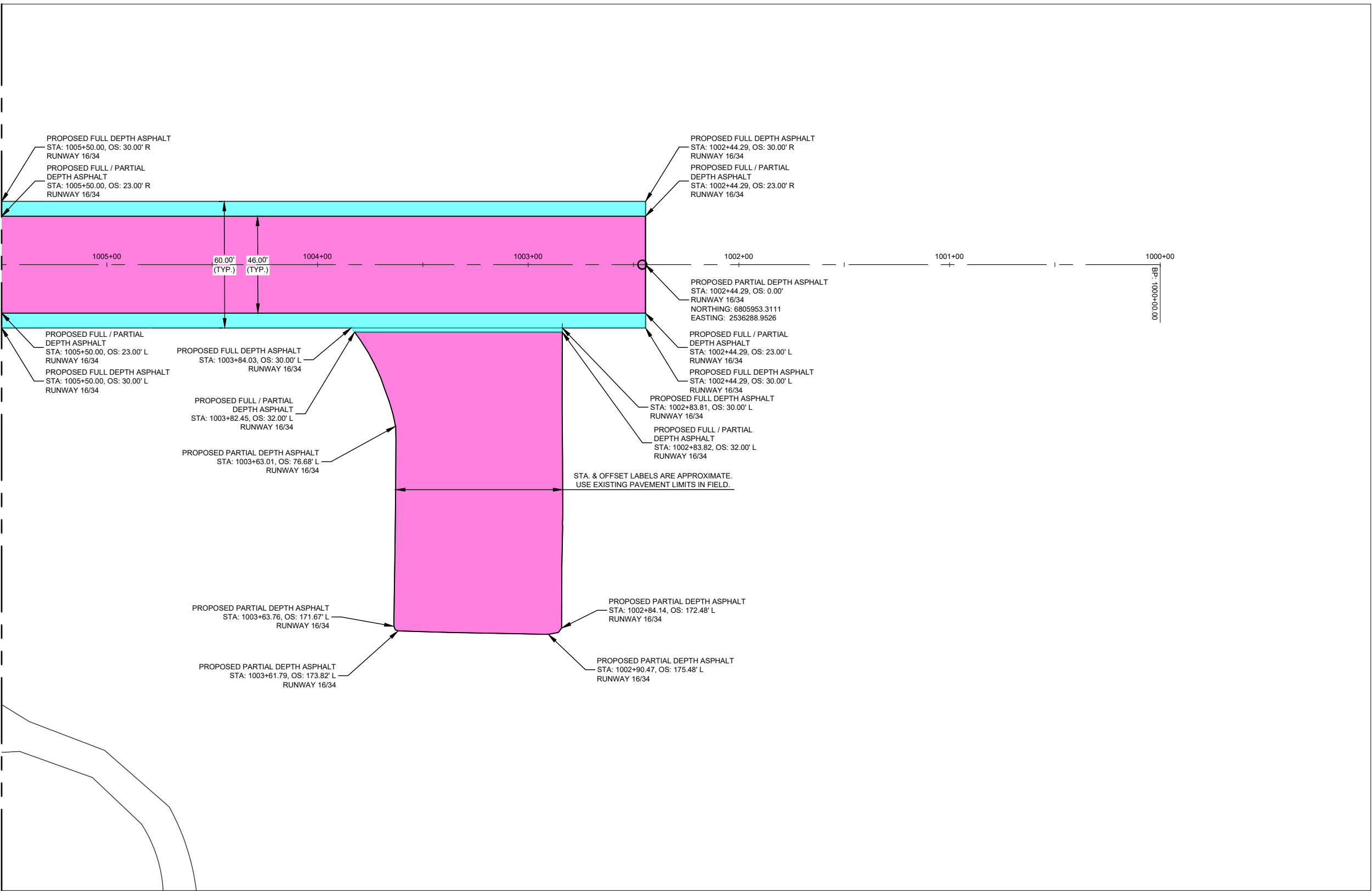
WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
C206

SHEET NO.
54 of 109

Printed June 5, 2026 @ 11:12 AM by: Walker, Jude
\\wacquisitions\projects\1412024 runway widening, taxiway extension, airfield electrical\15-CAD\PLANS\020-041-TXD07-24-C200-GMITY.dwg

MATCHLINE STA. 1005+50 - SEE SHEET C206



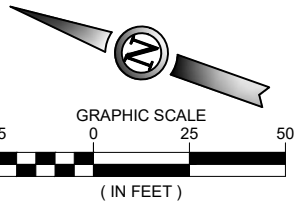
KEY MAP

GEOMETRY LEGEND

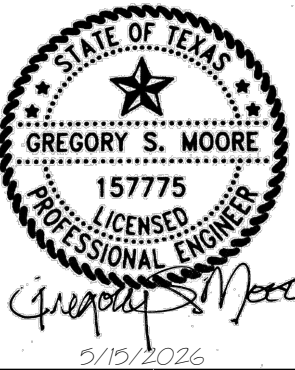
- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN GROUND ROD

GEOMETRY NOTES

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- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GEOMETRY PLAN
STA. 1005+50 TO STA. 1002+44.29
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

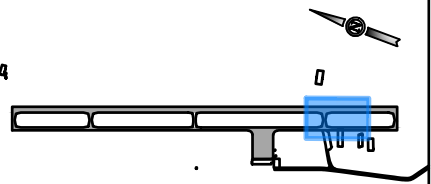
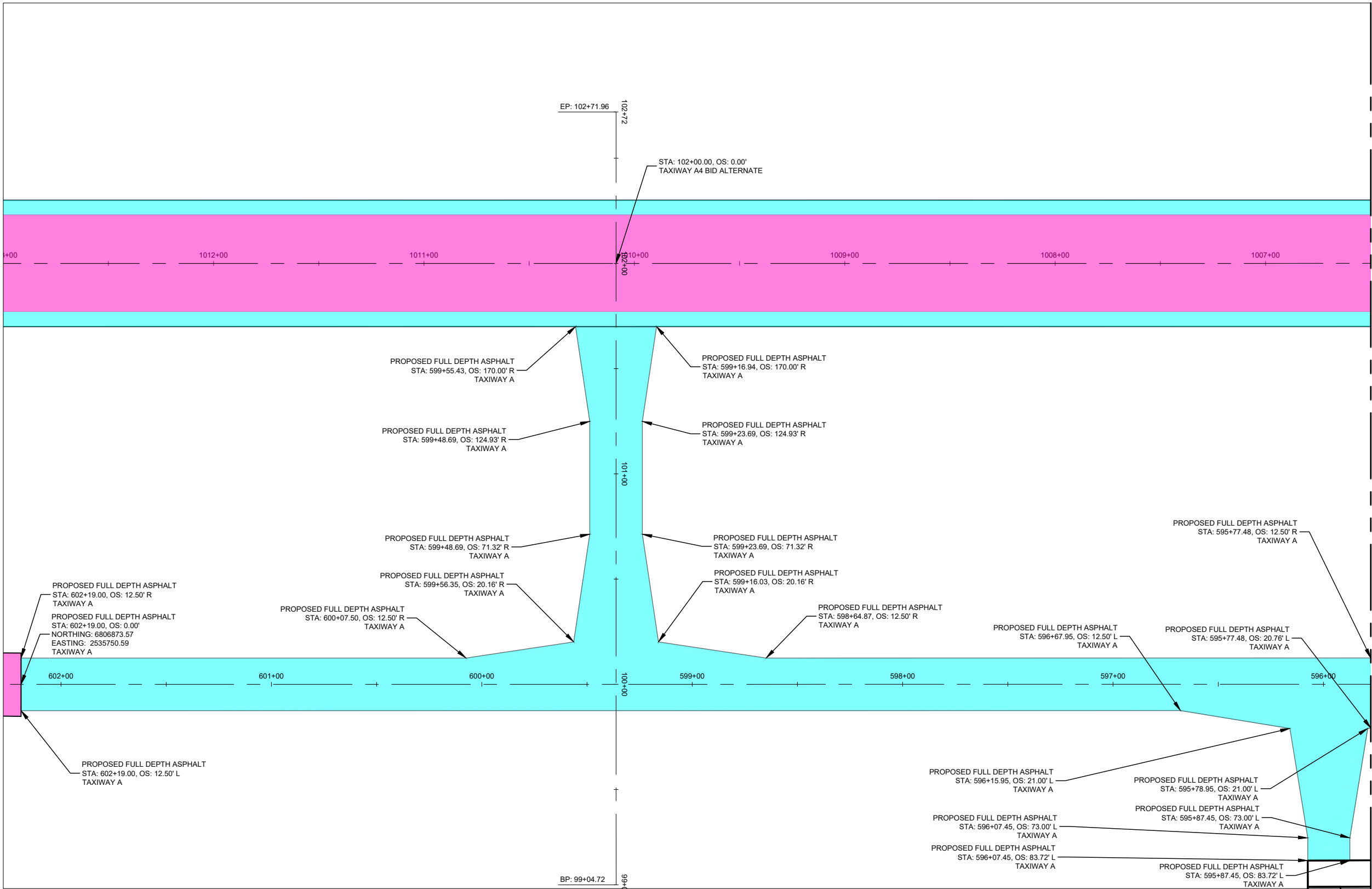
SHEET NAME

C207

SHEET NO.

55 of 109

Printed June 5, 2026 @ 11:12 AM by Walker, Jude
\\aquilone\projects\1412024 runway widening, taxiway extension, airfield electrical- CAD\PLANS\020-141 TXDOT-24-C208-GMTY-BID AT.dwg



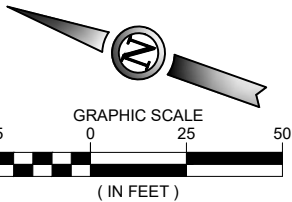
KEY MAP

GEOMETRY LEGEND

- FULL DEPTH ASPHALT PAVEMENT
- VARIABLE DEPTH ASPHALT PAVEMENT
- 2" ASPHALT PAVEMENT
- AIRCRAFT TIE DOWN
- AIRCRAFT TIE DOWN GROUND ROD

GEOMETRY NOTES

- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
- ALL LINE CALLOUTS ARE AT EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- SEE SHEETS G050 THRU G055 FOR CONSTRUCTION PHASING.
- SEE SHEET C221 FOR TYPICAL PAVEMENT SECTIONS.
- SEE SHEETS C701 THRU C709 FOR PAVEMENT MARKING INFORMATION.
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- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
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- SEE SHEETS E101 THRU E109 FOR ELECTRICAL DEMOLITION.
- SEE SHEETS E201 THRU E207 FOR AIRFIELD LIGHTING LAYOUT.
- SEE SHEETS E250 THRU E256 FOR ELECTRICAL DETAILS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

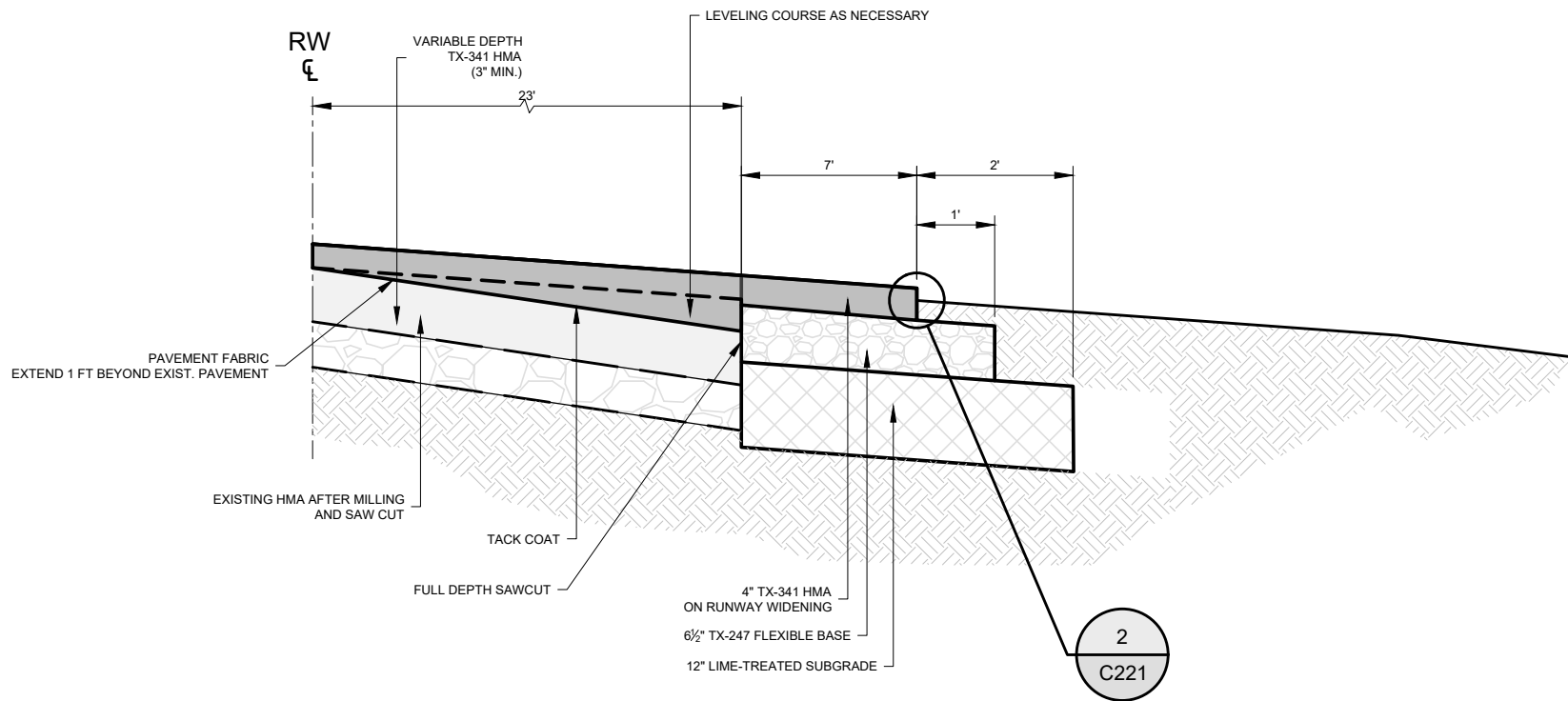
GEOMETRY PLAN
STA. 1012+91.5 TO STA. 1006+50
RUNWAY 16/34
ADDITIVE ALTERNATE BID NO. 1

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

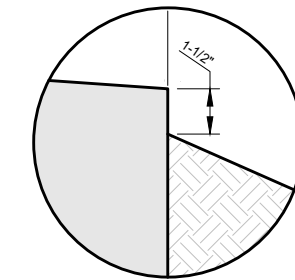
SHEET NAME
C208

SHEET NO.
56 of 109

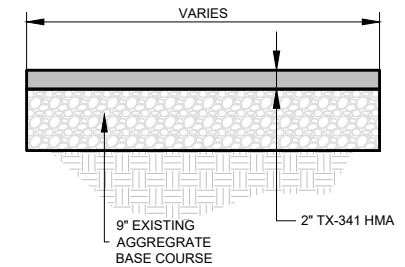


TOP LIFT TO BE CONTINUOUS ACROSS THE EXISTING PAVEMENT AND WIDENING AREA.

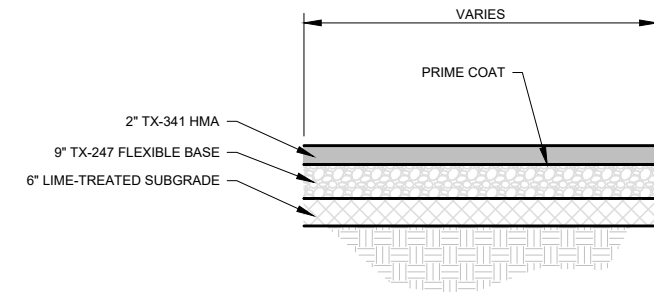
1 RUNWAY TYPICAL SECTION
NOT TO SCALE



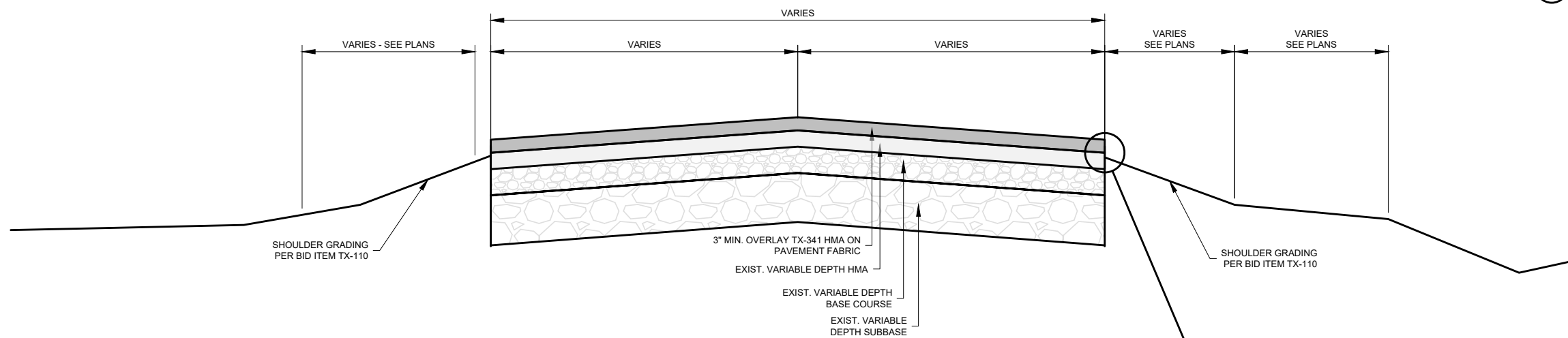
2 PAVEMENT EDGE DETAIL
N.T.S.



3 APRON SURFACE COURSE REPLACEMENT
TYPICAL SECTION
N.T.S.



4 APRON FULL DEPTH REPLACEMENT
TYPICAL SECTION
NOT TO SCALE



5 TAXIWAY OVERLAY SECTION
NOT TO SCALE

2 C221

ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

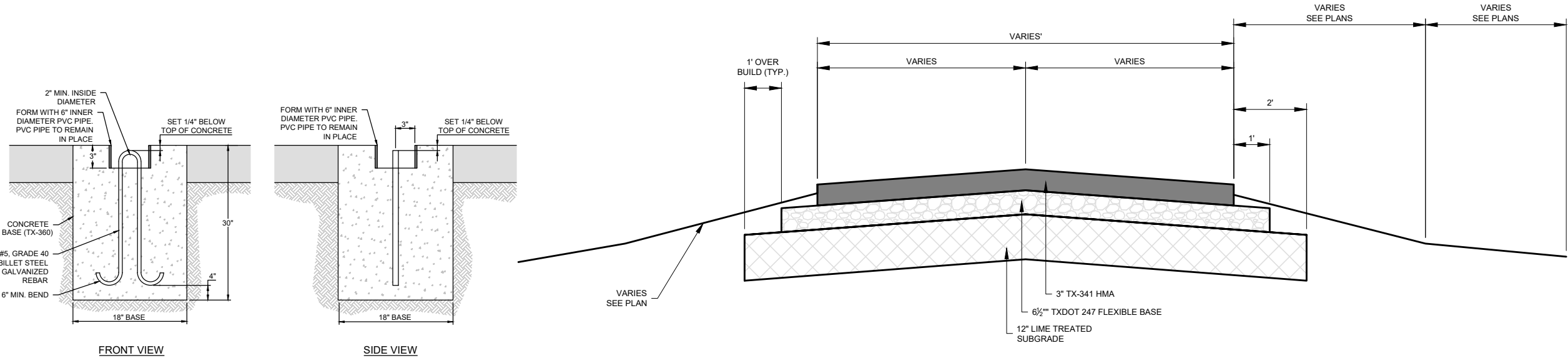
DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

TYPICAL SECTIONS

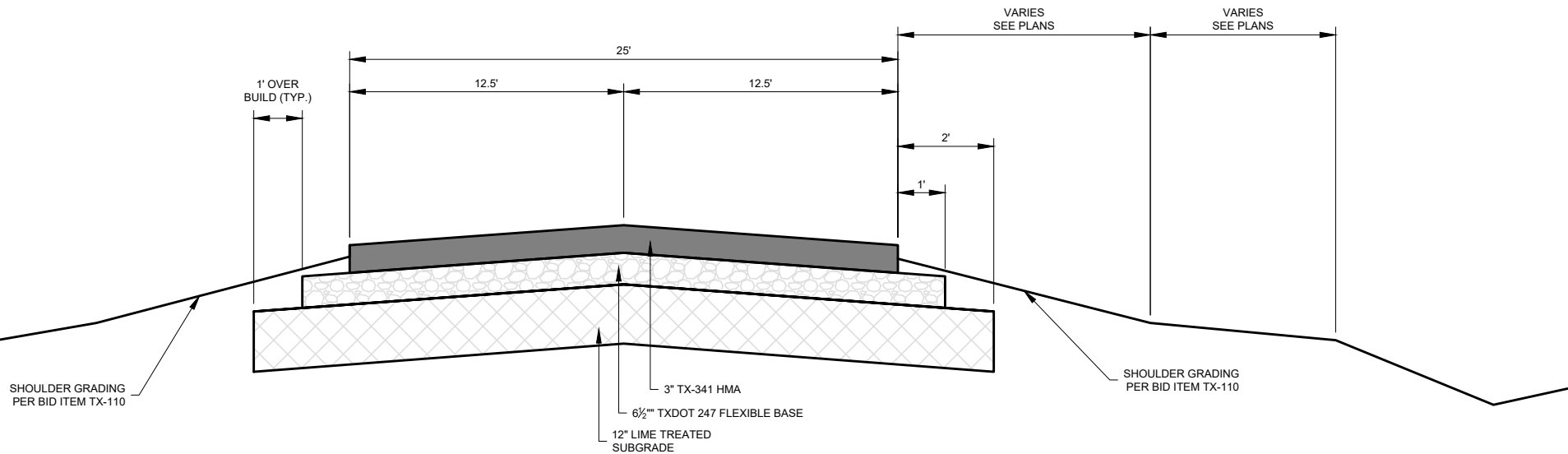
STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C221
SHEET NO.
58 of 109



1A AIRCRAFT TIEDOWN ANCHOR DETAIL
NOT TO SCALE

7 EXISTING TAXIWAY NEW PAVEMENT
NOT TO SCALE



6 TAXIWAY EXTENSION AND T/W CONNECTOR SECTION
NOT TO SCALE

ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT DETAILS

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

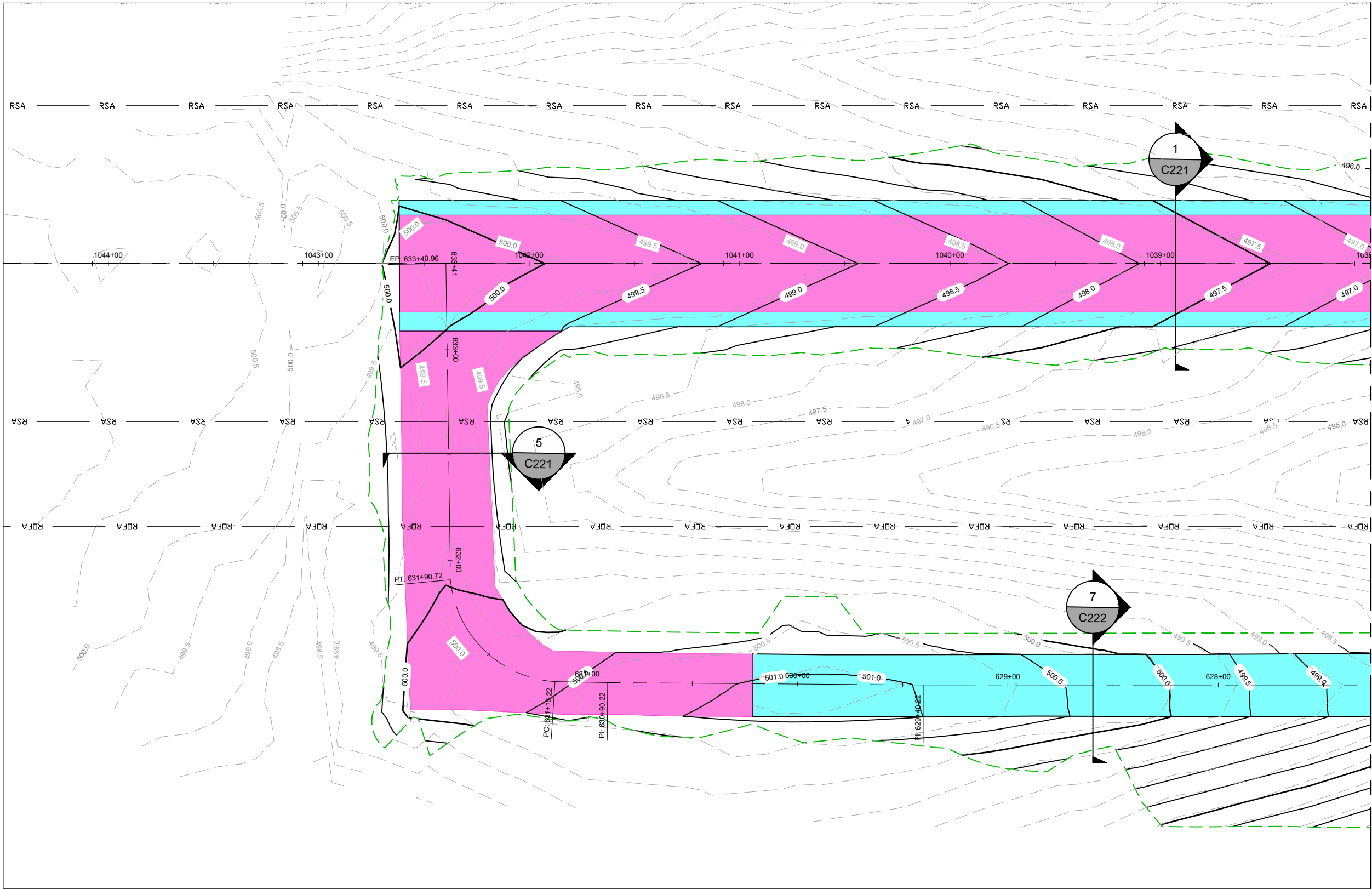
SHEET NAME

C222

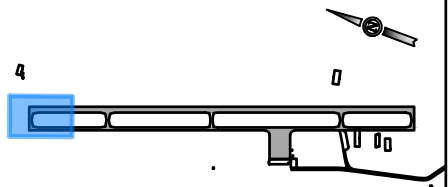
SHEET NO.

59 of 109

Printed June 5, 2026 @ 11:14 AM by Walker, Jude
P:\Projects\2024\10022171\10022171_001_01_TXDOT-24-C301-GRAD.dwg

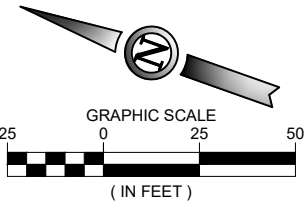


MATCHLINE STA. 1038+00 - SEE SHEET C302

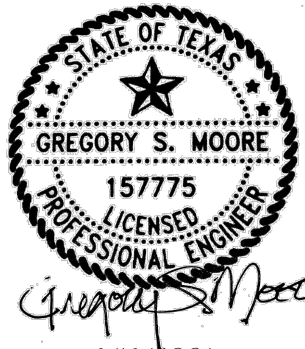


KEY MAP

GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

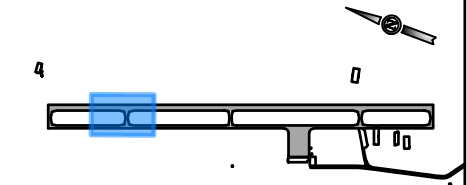
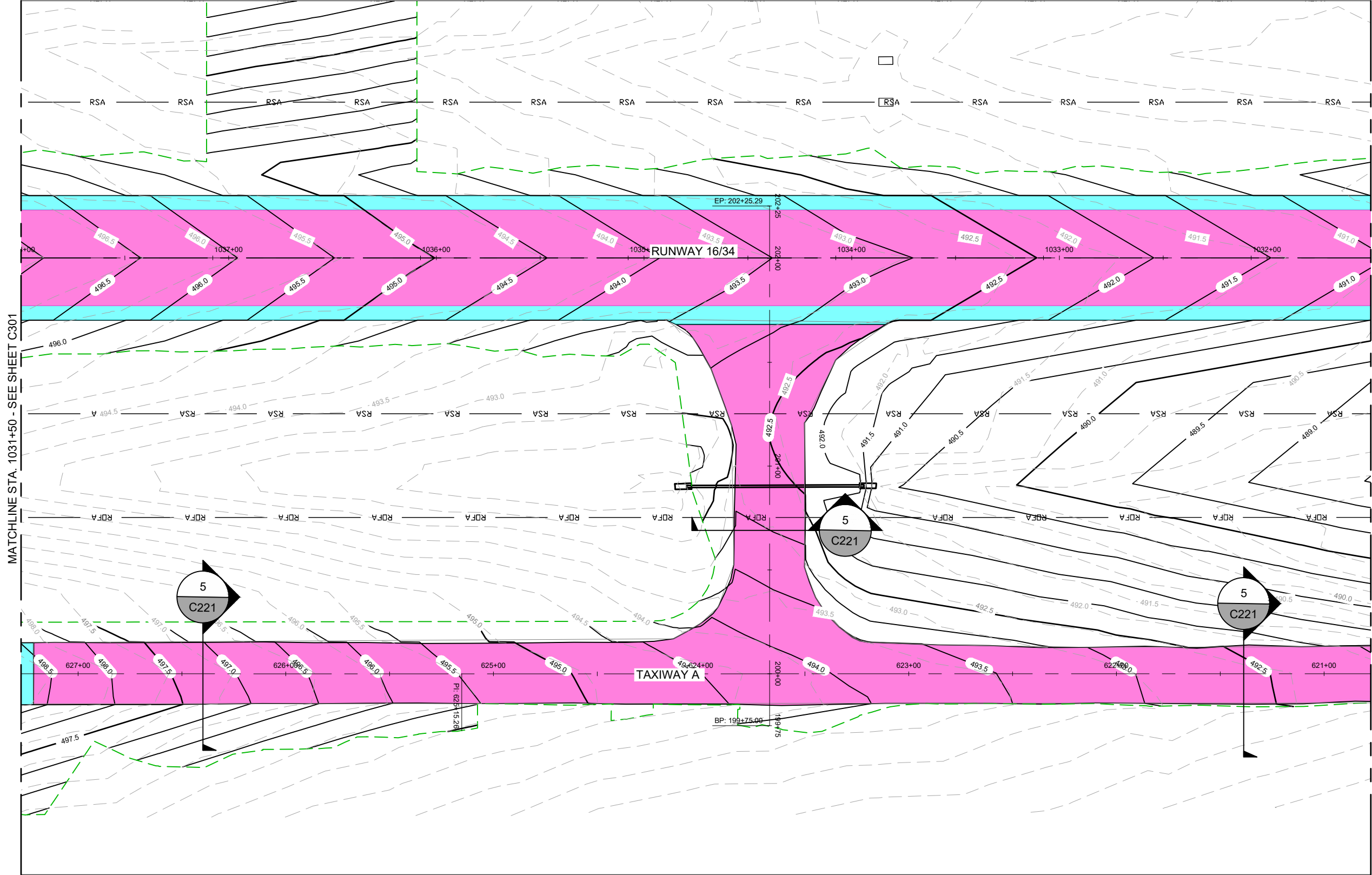
GRADING PLAN
STA. 1046+62.72 TO STA. 1038+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

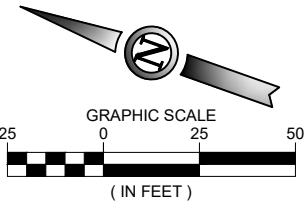
SHEET NAME
C301
SHEET NO.
60 of 109

Printed June 5, 2026 @ 11:14 AM by Walker, Jade
P:\Occupational\Projects\412024 Runway Widening - Taxiway Extension, Airfield Electrical\F-CAD\PLANS\030-F41.TXD\07-24-C302-GRAD.dwg

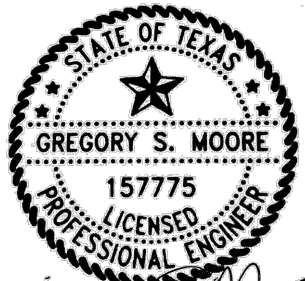


KEY MAP

GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR



ISSUED FOR BID



Gregory S. Moore
5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GRADING PLAN
STA. 1031+50 TO STA. 1038+00
RUNWAY 16/37

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C302

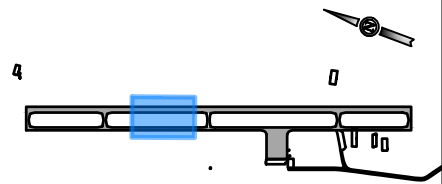
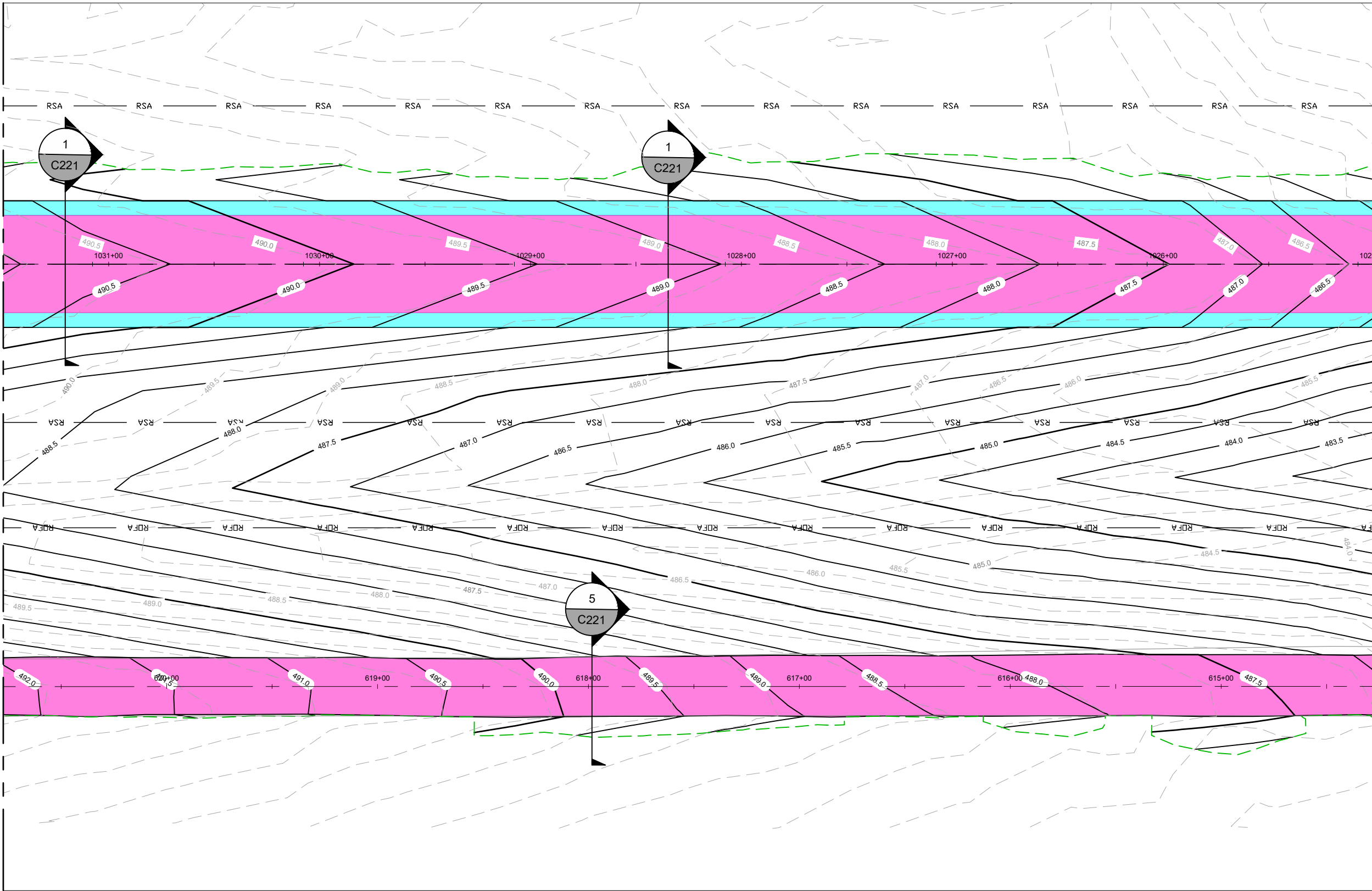
SHEET NO.

61 of 109

Printed June 5, 2026 @ 11:14 AM by Walker, Jude
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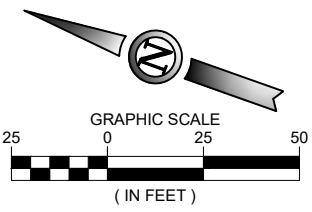
MATCHLINE STA. 1031+50 - SEE SHEET C302

MATCHLINE STA. 1025+00 - SEE SHEET C304

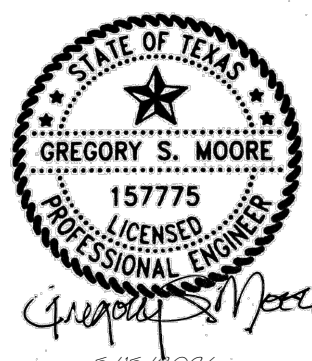


KEY MAP

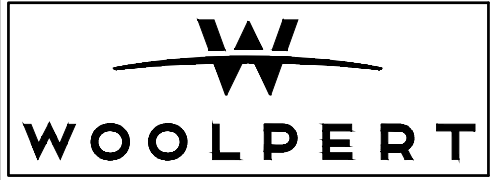
GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



DES:A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GRADING PLAN
STAL. 1031+50 TO STA. 1025+00
RUNWAY 16/34

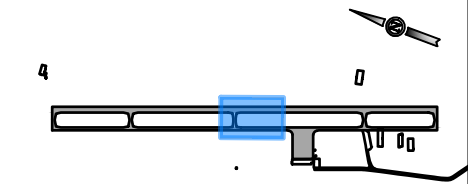
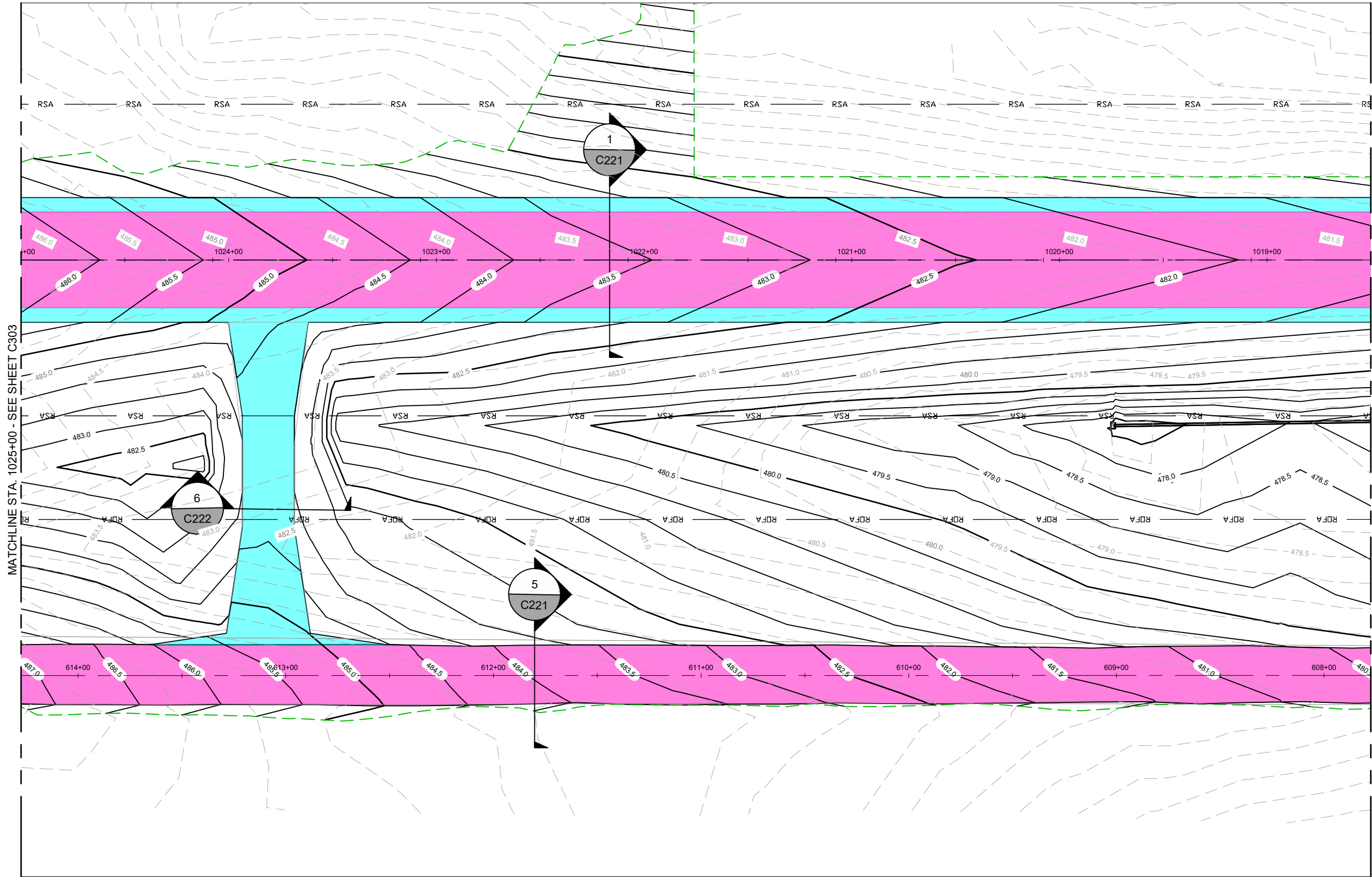
STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
C303

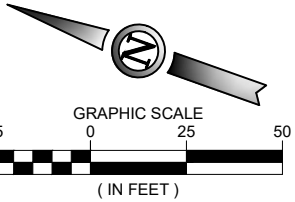
SHEET NO.
62 of 109

Printed June 5, 2026 @ 11:14 AM by Walker, Jude
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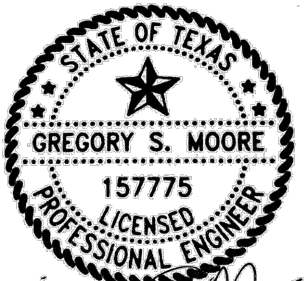


KEY MAP

GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES:A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GRADING PLAN
STA. 1025+00 TO STA. 1018+50
RUNWAY 16/34

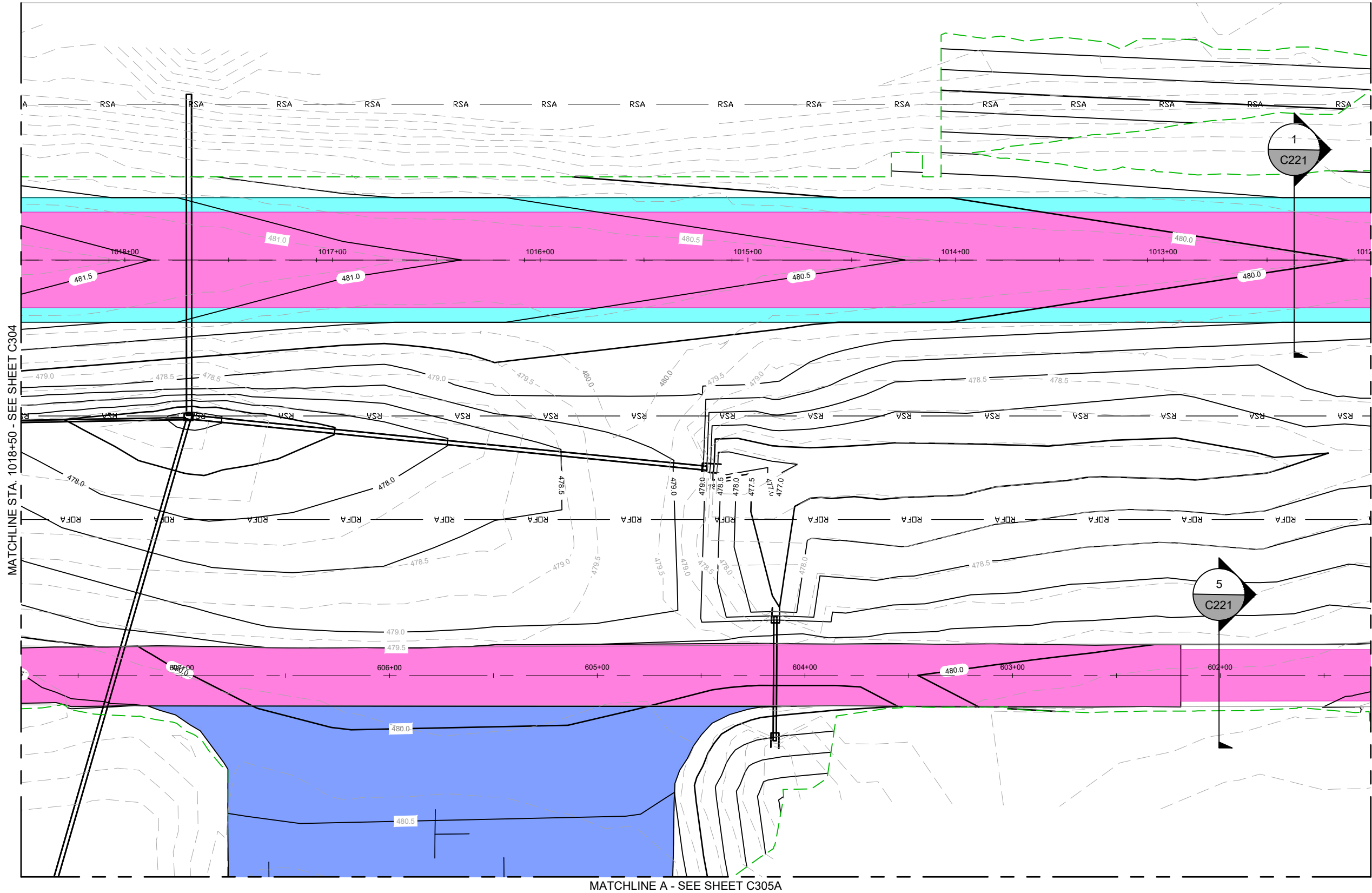
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TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

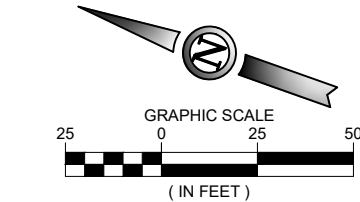
SHEET NAME
C304

SHEET NO.
63 of 109

Printed June 5, 2026 @ 11:14 AM by Walker, Jude
P:\Occupational\Unpublished\412024 Runway Widening - Taxiway Extension, Airfield Electrical\F-CAD\PLANS\030-F41.TXDOT-24-C305-GRAD.dwg



GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR



ISSUED FOR BID

Gregory S. Moore
5/15/2026

GREGORY S. MOORE

PE NO. 15775

5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



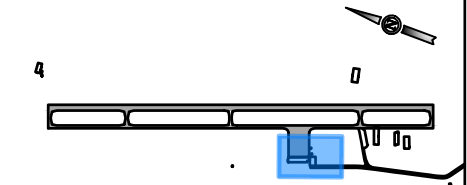
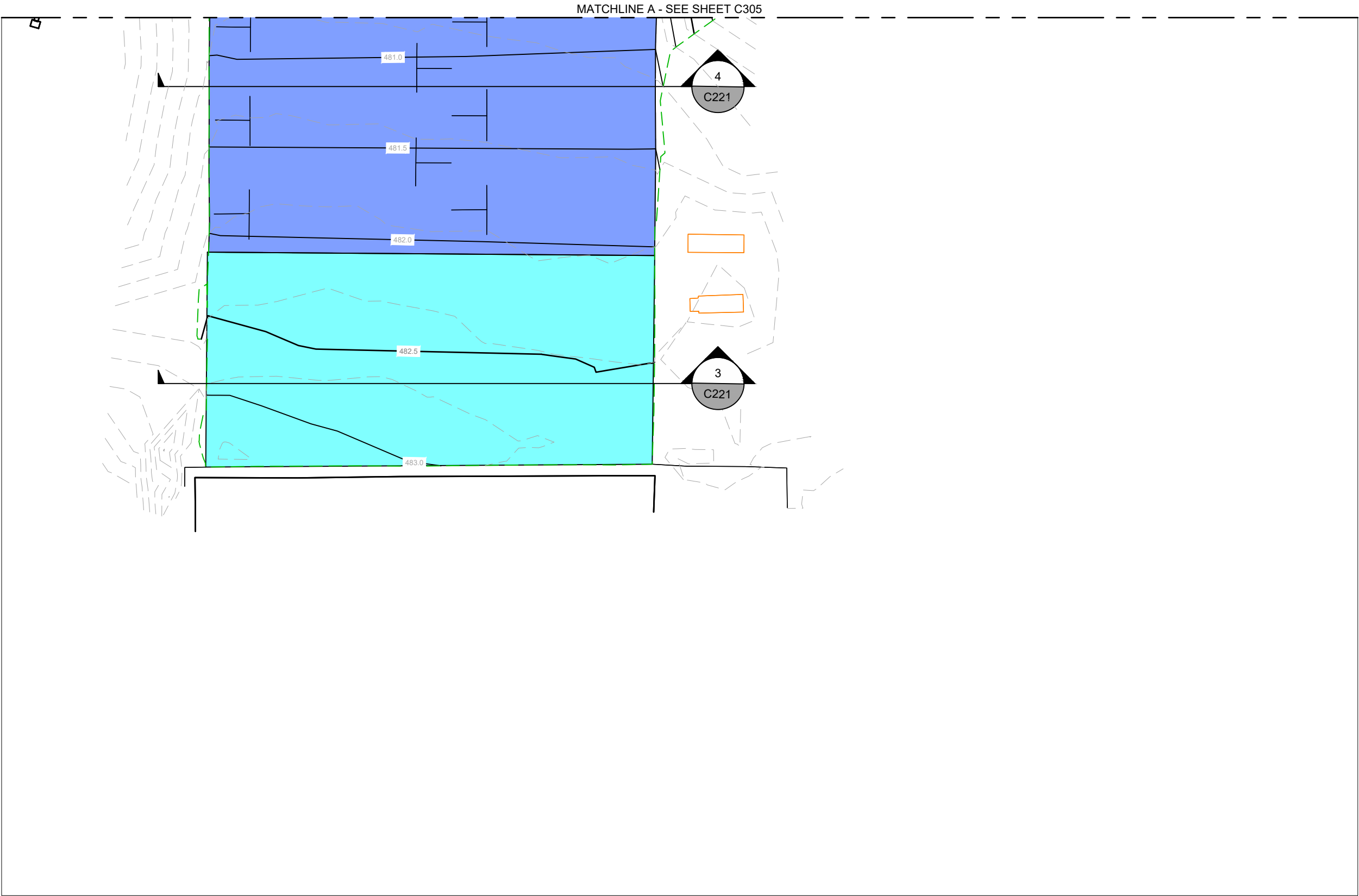
ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

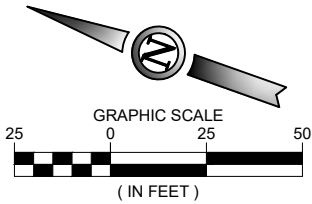
GRADING PLAN STA. 1018+50 TO STA. 1012+00 RUNWAY 16/34		SHEET NAME C305	
STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS		SHEET NO. 64 of 109	
WOOLPERT PROJ. NO. 10022171.00.001.01			

Printed June 5, 2026 @ 11:14 AM by Walker, Jude
P:\Operations\A\Projects\2024 Runway Widening - Taxiway Extension, Airfield Electrical\F - CAD\PLANS\030-F41.TXD\07-24-C300-GRAD.dwg



KEY MAP

GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
6536.0	EXISTING INDEX CONTOUR
6538.1	EXISTING INTERMEDIATE CONTOUR
6536.0	PROPOSED INDEX CONTOUR
6538.1	PROPOSED INTERMEDIATE CONTOUR



ISSUED FOR BID



GREGORY S. MOORE PE NO. 15775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GRADING PLAN
MATCHLINE A
RUNWAY 16/34

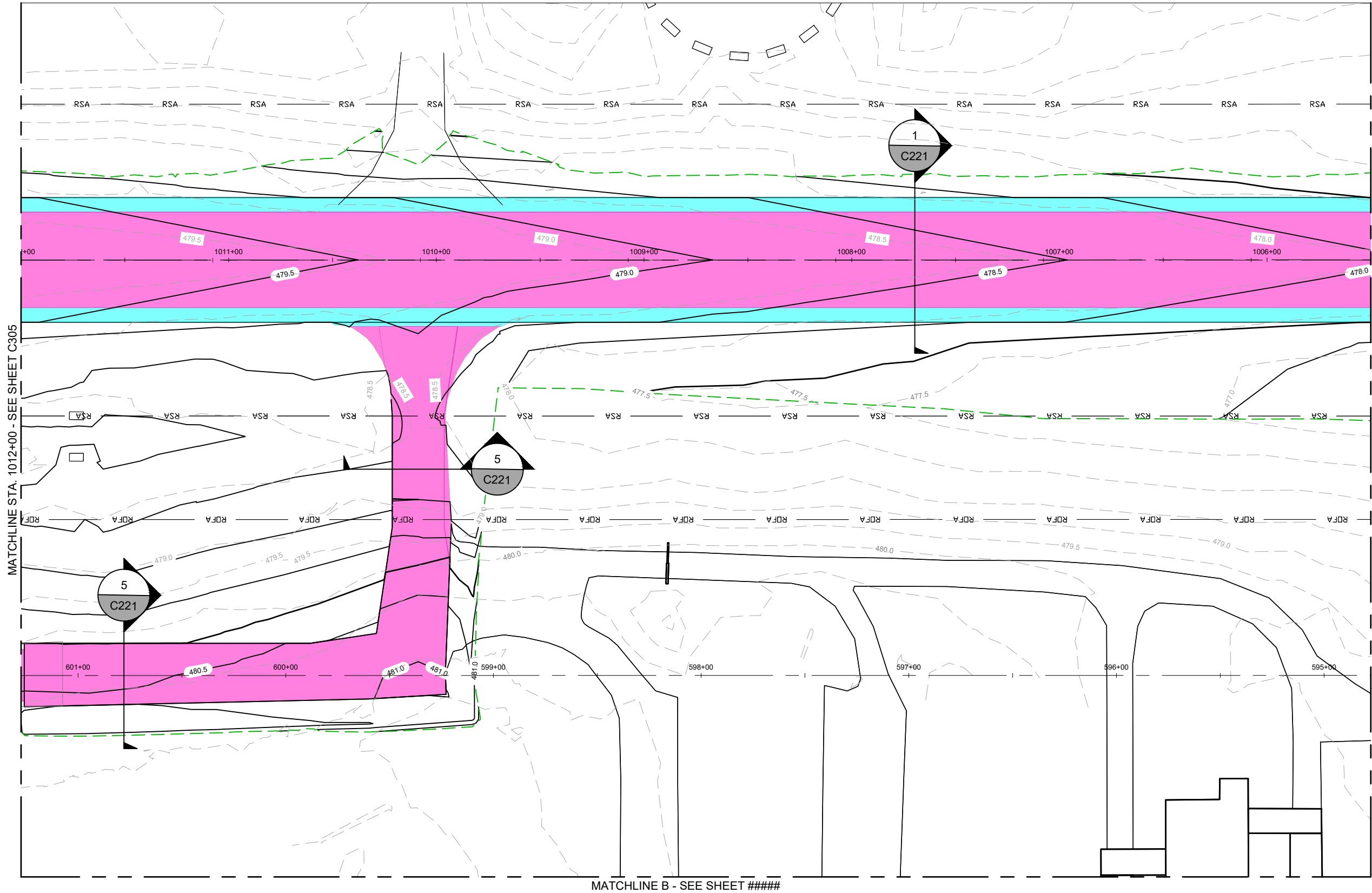
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TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

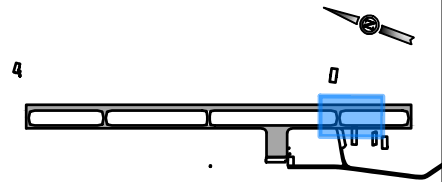
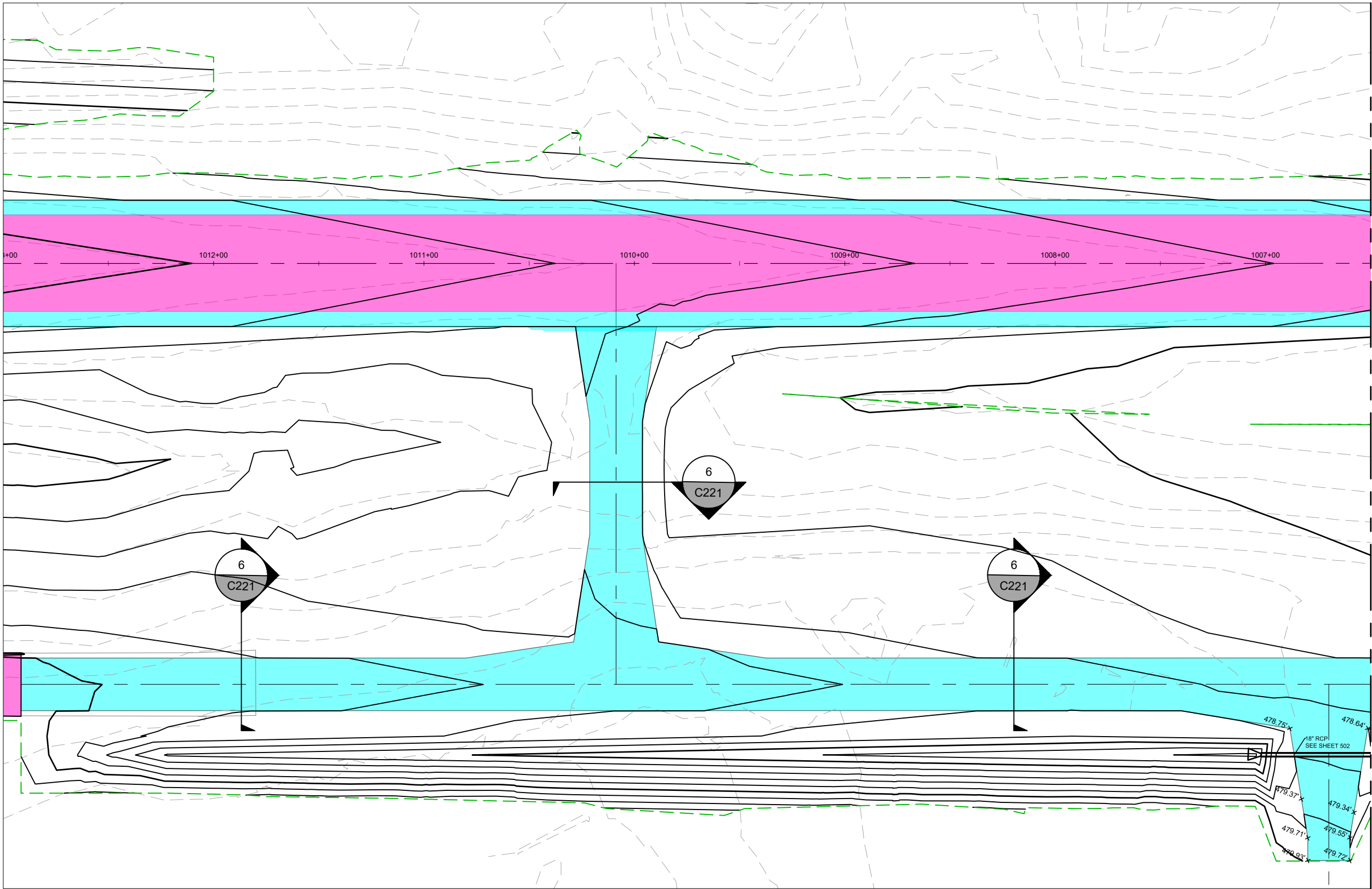
SHEET NAME
C305A

SHEET NO.
65 of 109

Printed June 5, 2026 @ 11:14 AM by Walker, Jude
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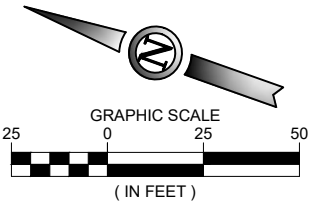


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KEY MAP

GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	6536.0 EXISTING INDEX CONTOUR
	6538.1 EXISTING INTERMEDIATE CONTOUR
	6536.0 PROPOSED INDEX CONTOUR
	6538.1 PROPOSED INTERMEDIATE CONTOUR
	PROJECT GRADING LIMITS



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

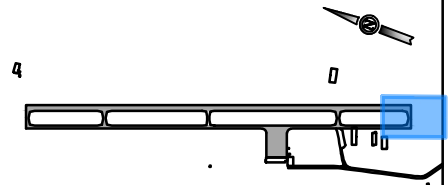
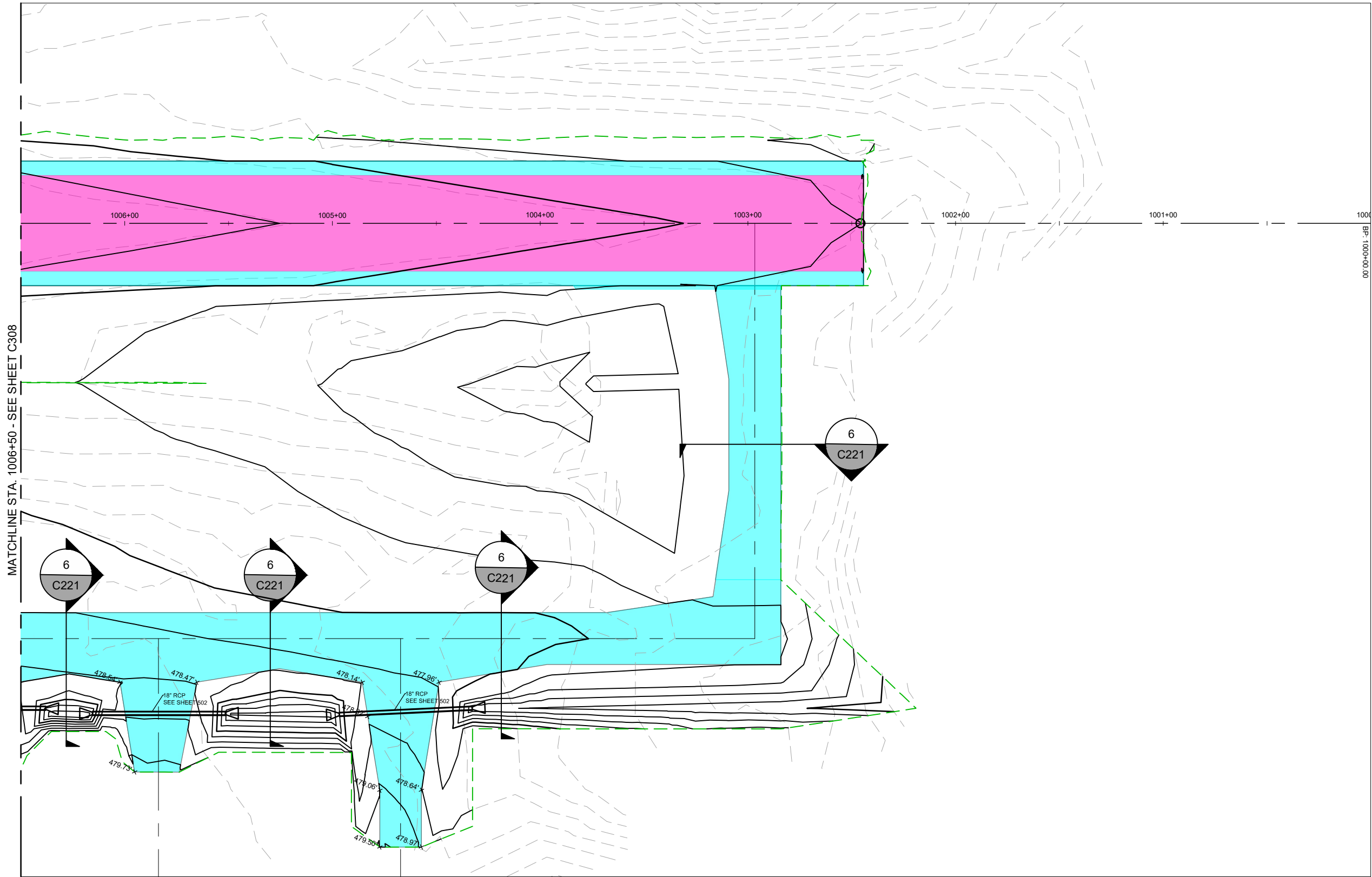
GRADING PLAN
STA. 1012+91.25 TO STA. 1006+50
RUNWAY 16/34
ADDITIVE ALTERNATE BID NO. 1

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

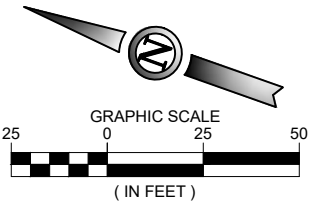
SHEET NAME
C308
SHEET NO.
68 of 109

Printed June 5, 2026 @ 11:30 AM by Walker, Jude
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KEY MAP

GRADING LEGEND	
	FULL DEPTH ASPHALT PAVEMENT
	PARTIAL DEPTH ASPHALT PAVEMENT
	6536.0 EXISTING INDEX CONTOUR
	6538.1 EXISTING INTERMEDIATE CONTOUR
	6536.0 PROPOSED INDEX CONTOUR
	6538.1 PROPOSED INTERMEDIATE CONTOUR
	PROJECT GRADING LIMITS



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

GRADING PLAN
STA. 1006+50 TO STA. 1002+44.29
RUNWAY 16/34
ADDITIVE ALTERNATE BID NO.1

STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C309
SHEET NO.
69 of 109

Printed June 5, 2026 @ 11:15 AM by Walker, Jude
\\acquisitions\projects\141223 runway widening taxiway extension, airfield electrical- CAD\PLANS\040-F41-TXDOT-24-C400-RUNW-PROF.dwg



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

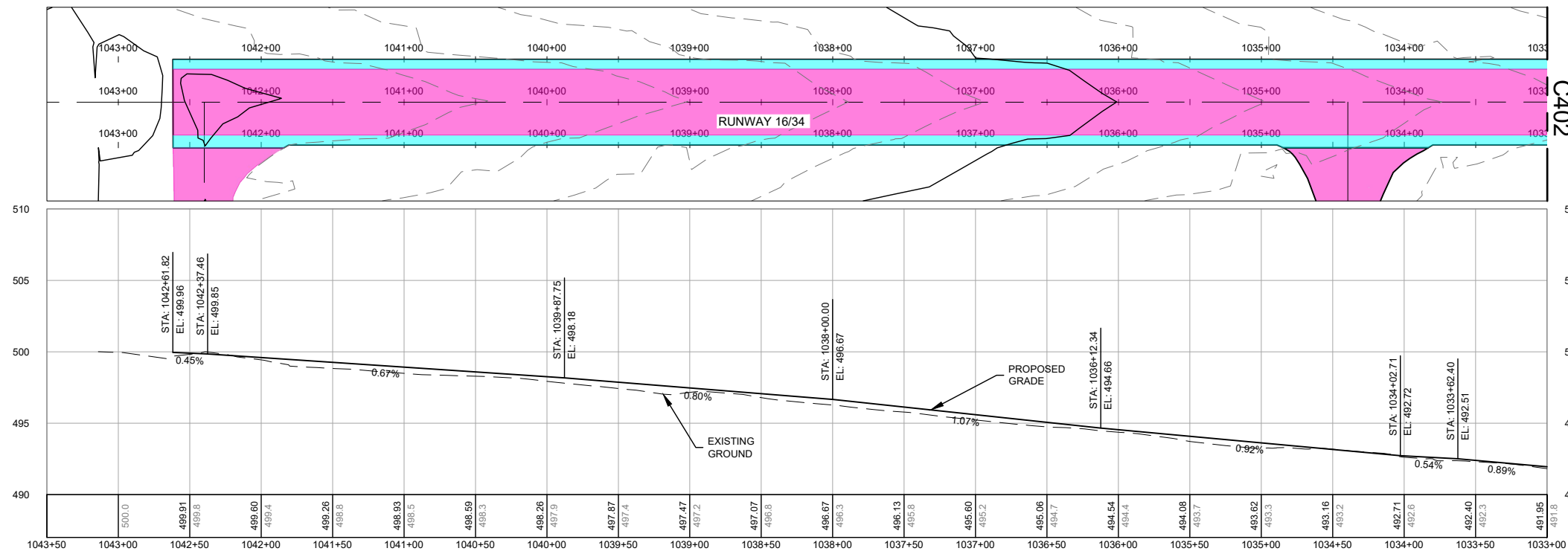
PLAN & PROFILE
STA. 1043+50 TO STA. 1033+00
RUNWAY 16/34

SHEET NAME

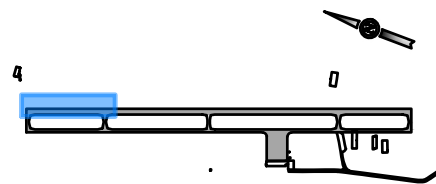
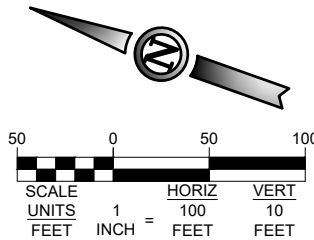
C401

SHEET NO.

70 of 109



MATCHLINE
STA. 1033+00
- SEE SHEET
C402



KEY MAP

PLAN LEGEND

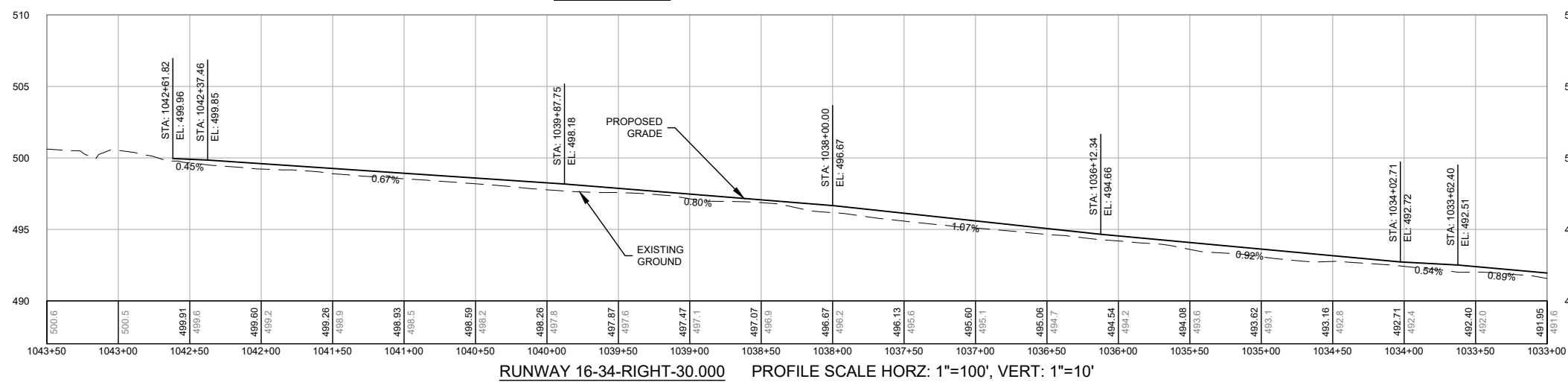
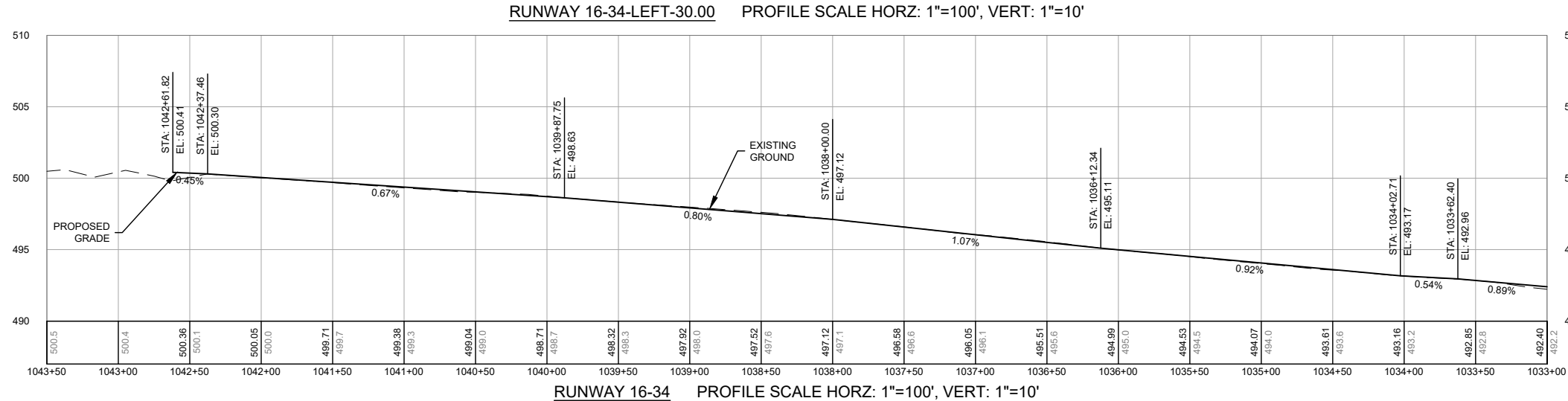
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	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SWALE FLOW LINE

PROFILE LEGEND

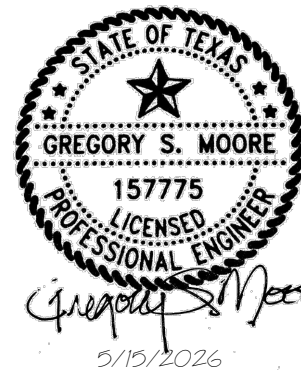
	PROPOSED GRADE
	EXISTING GROUND
	PROFILE BAND
	EXISTING ELEVATION
	PROPOSED ELEVATION

PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
- IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
- CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.



ISSUED FOR BID

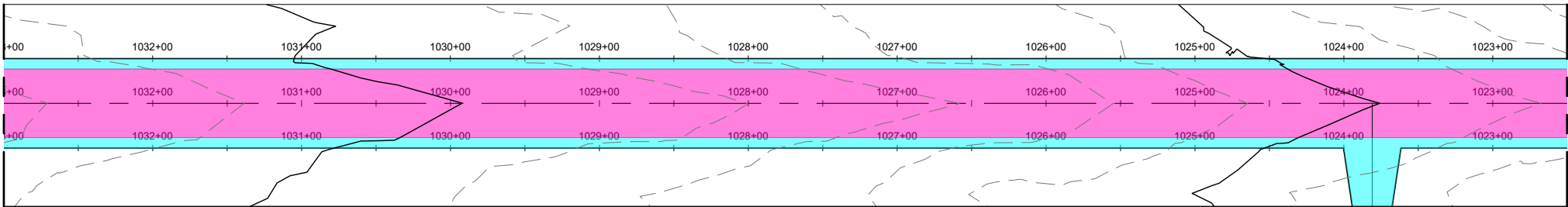


GREGORY S. MOORE PE NO. 157775 5/15/2026

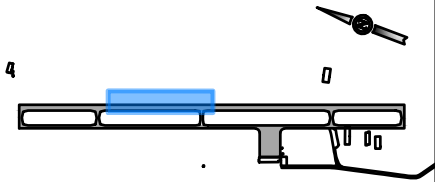
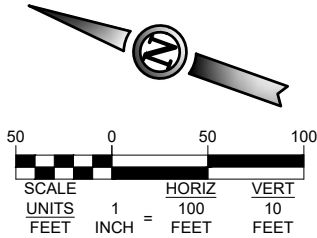
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

Printed June 5, 2026 @ 11:16 AM by Walker, Jude
\\acquisitions\projects\1222 runway widening, taxiway extension, airfield electrical\1- CAD\PLANS\040-F41\TXDOT-24-C400-RUNW-PROF.dwg

MATCHLINE
STA. 1033+00
- SEE SHEET
C401

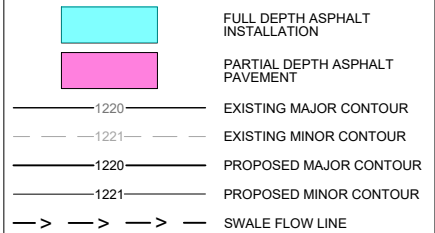


MATCHLINE
STA. 1022+50
- SEE SHEET
C403

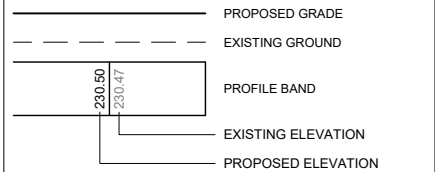


KEY MAP

PLAN LEGEND



PROFILE LEGEND



PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
- IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
- CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.

ISSUED FOR BID



Gregory S. Moore
5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

PLAN & PROFILE
STA. 1033+00 TO STA. 1022+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C402

SHEET NO.

71 of 109

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ISSUE RECORD

NO.	BY	DATE	DESCRIPTION
2	G.S.M.	5/15/2026	ISSUED FOR BIDDING

DES:A.D.

DR: J.K.W.

CH: C.L.G.

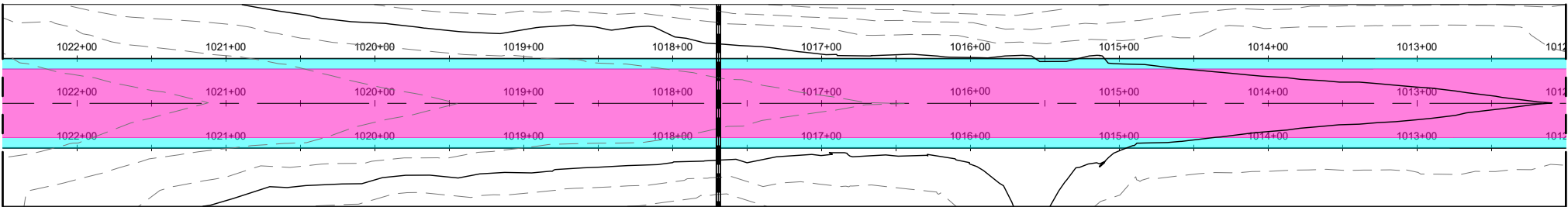
APP: G.S.M.

ENNIS MUNICIPAL
AIRPORT



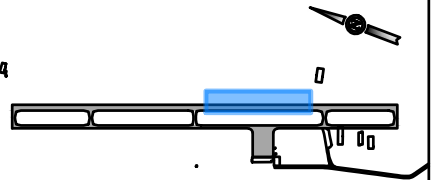
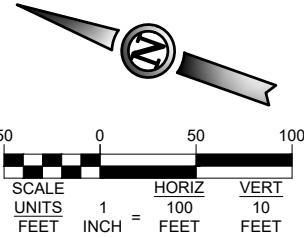
C402

MATCHLINE
STA. 1022+50
- SEE SHEET



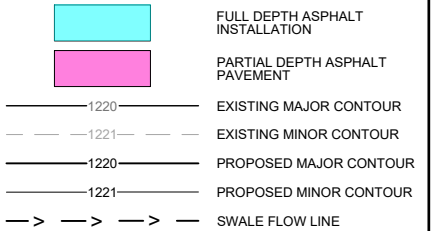
C404

MATCHLINE
STA. 1012+00
- SEE SHEET

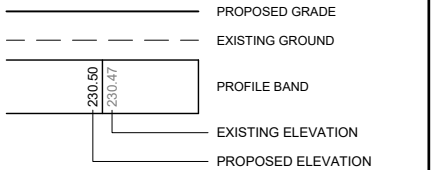


KEY MAP

PLAN LEGEND



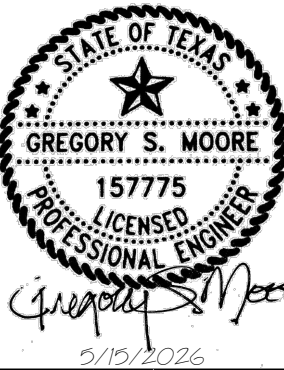
PROFILE LEGEND



PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
- IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
- CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.

ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

PLAN & PROFILE
STA. 1022+50 TO STA. 1012+00
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME

C403

SHEET NO.

72 of 109

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ISSUE RECORD

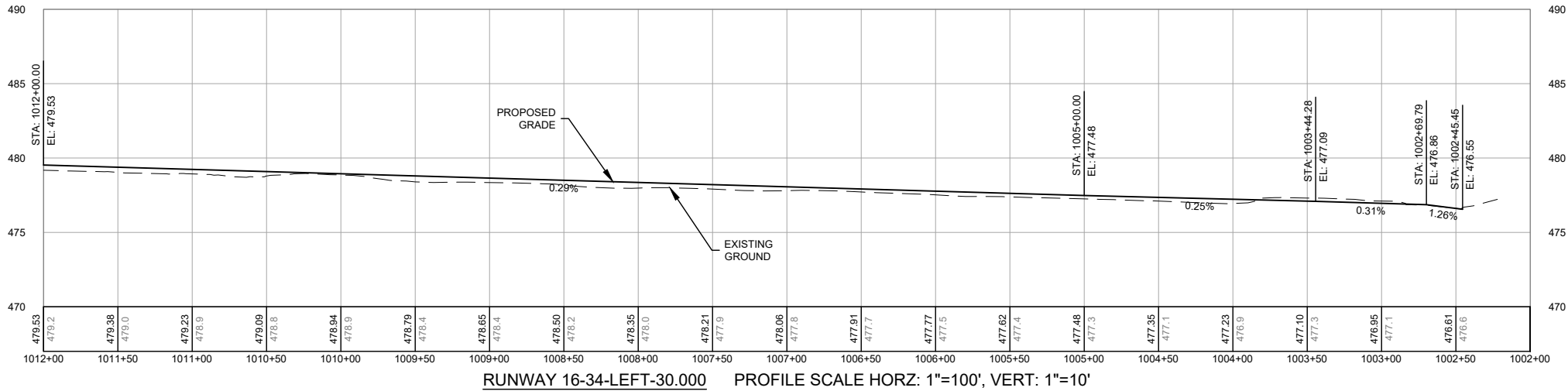
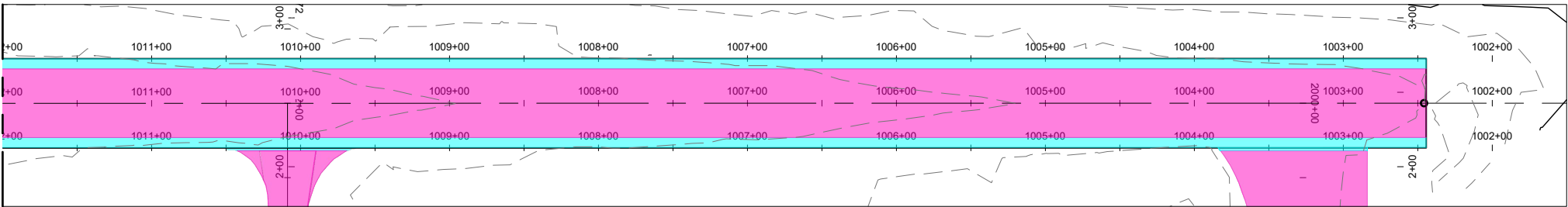
DES: A.D.	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

ENNIS MUNICIPAL
AIRPORT

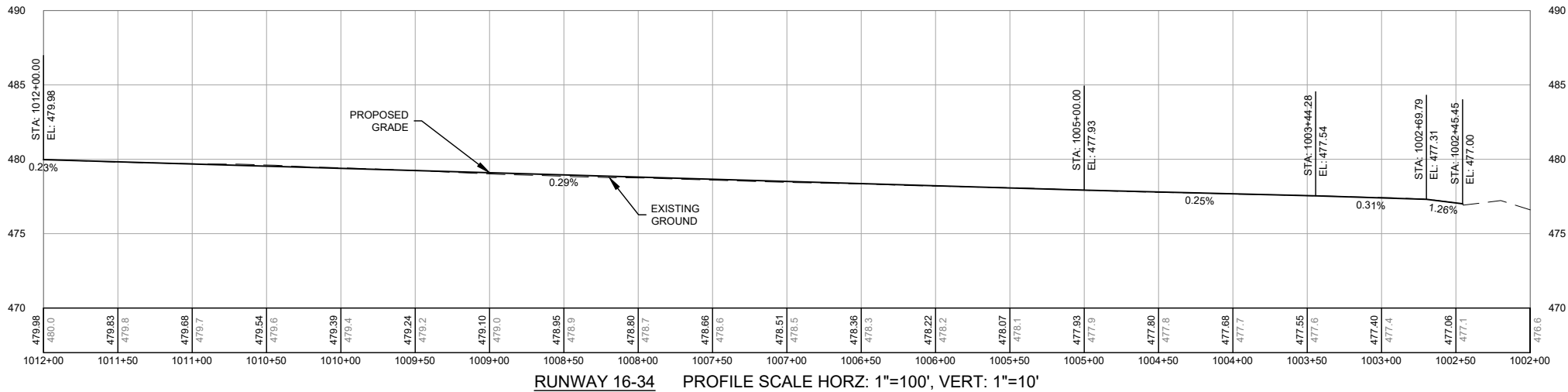


C403

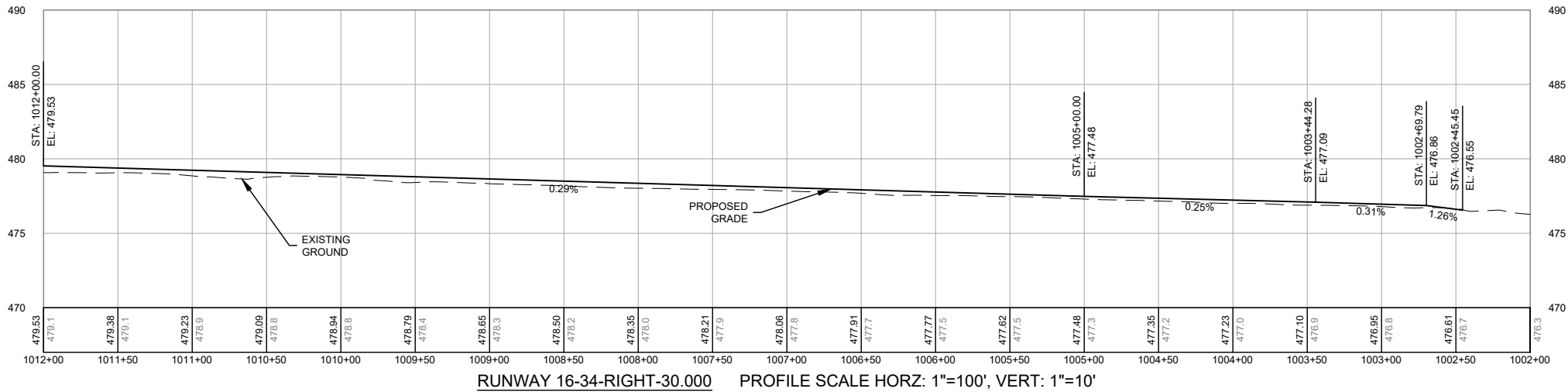
STA. 1012+00
- SEE SHEET



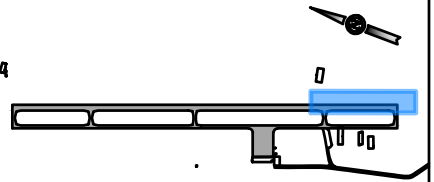
RUNWAY 16-34-LEFT-30.000 PROFILE SCALE HORIZ: 1"=100', VERT: 1"=10'



RUNWAY 16-34 PROFILE SCALE HORIZ: 1"=100', VERT: 1"=10'



RUNWAY 16-34-RIGHT-30.000 PROFILE SCALE HORIZ: 1"=100', VERT: 1"=10'



KEY MAP

PLAN LEGEND

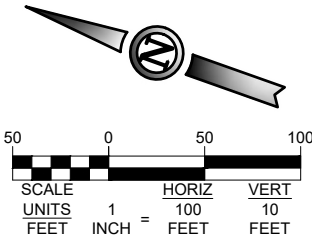
- FULL DEPTH ASPHALT INSTALLATION
- PARTIAL DEPTH ASPHALT PAVEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SWALE FLOW LINE

PROFILE LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- PROFILE BAND
- EXISTING ELEVATION
- PROPOSED ELEVATION

PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
- IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
- CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.

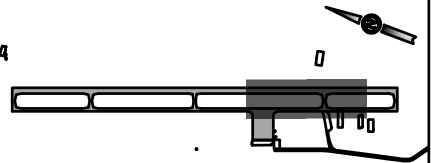
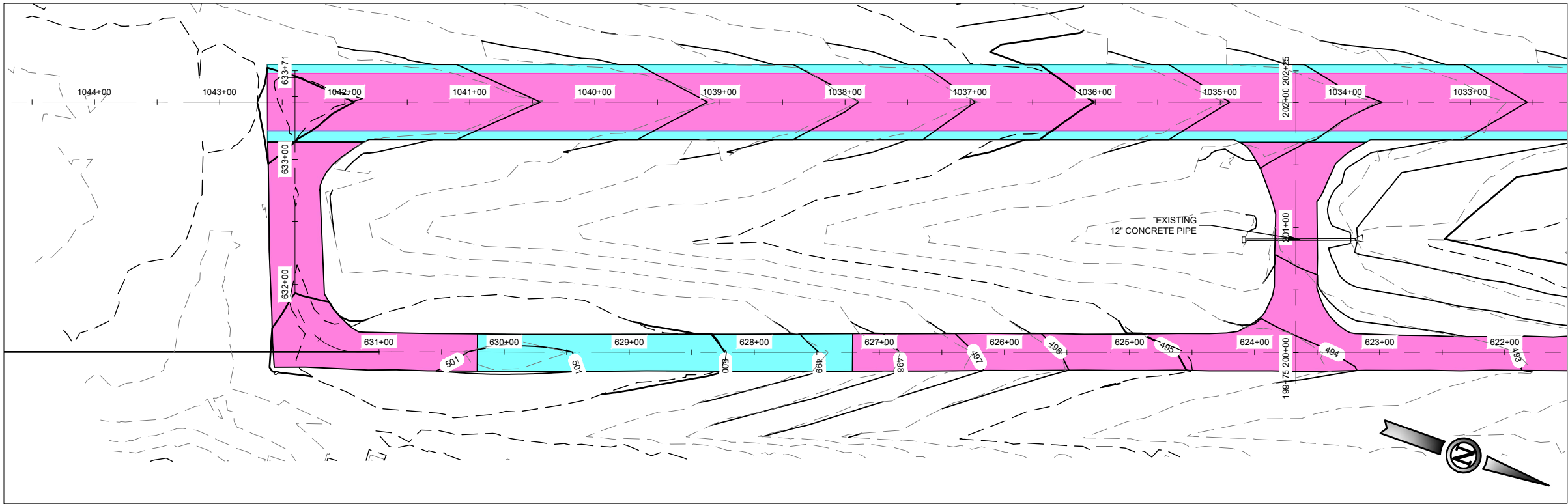


ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

		ENNIS MUNICIPAL AIRPORT	DES: A.D.	ISSUE RECORD				RUNWAY WIDENING, TAXIWAY EXTENSION & AIRFIELD ELECTRICAL	PLAN & PROFILE STA. 1012+00 TO STA. 1002+00 RUNWAY 16/34	SHEET NAME C404
			DR: J.K.W.	NO.	BY	DATE	DESCRIPTION			
			CH: C.L.G.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING			
			APP: G.S.M.							
STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS								WOOLPERT PROJ. NO. 10022171.00.001.01	SHEET NO. 73 of 109	



KEY MAP

PLAN LEGEND

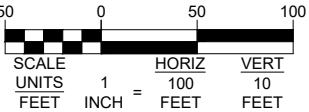
- FULL DEPTH ASPHALT INSTALLATION
- PARTIAL DEPTH ASPHALT PAVEMENT
- 1220 EXISTING MAJOR CONTOUR
- 1221 EXISTING MINOR CONTOUR
- 1220 PROPOSED MAJOR CONTOUR
- 1221 PROPOSED MINOR CONTOUR
- SWALE FLOW LINE

PROFILE LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- PROFILE BAND
- EXISTING ELEVATION
- PROPOSED ELEVATION

PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
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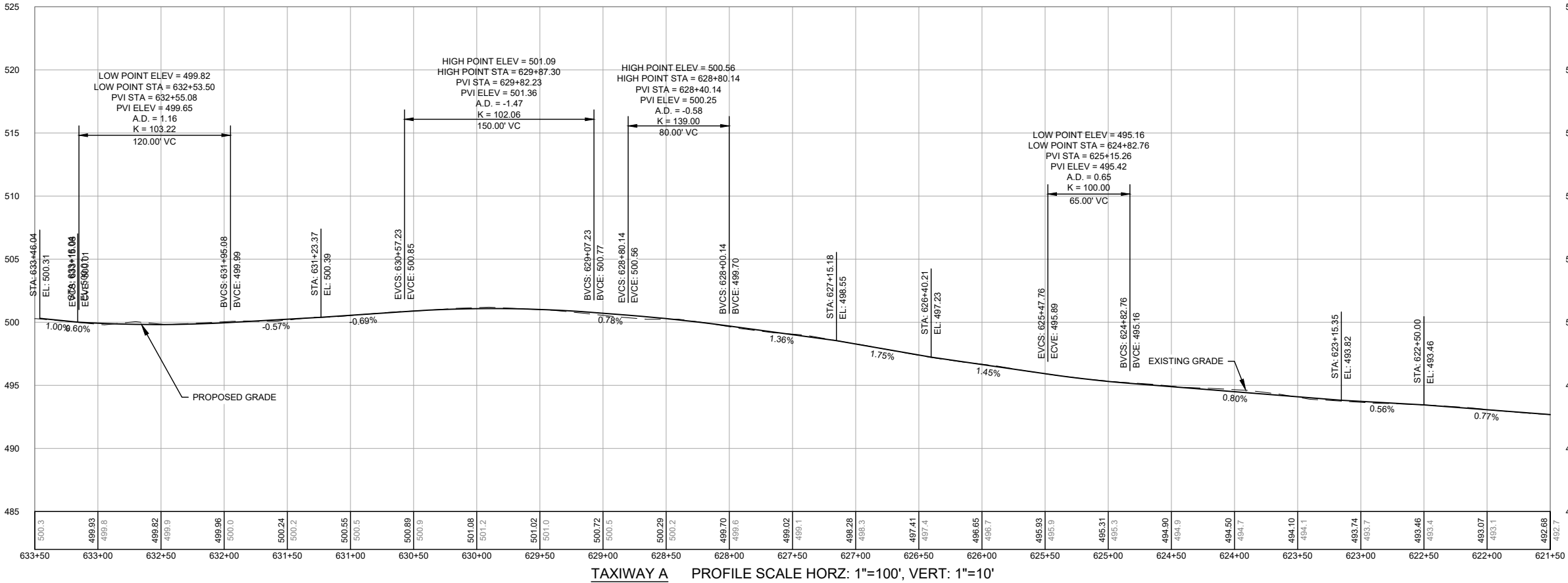


ISSUED FOR BID

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



TAXIWAY A PROFILE SCALE HORZ: 1"=100', VERT: 1"=10'

Printed June 5, 2026 @ 11:16 AM by Walker, Jude
\\acquisitions\projects\151225 runway widening, taxiway extension, airfield electrical\CAD\PLANS\C405-41.TXD\07-24-C405-PROF.dwg



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

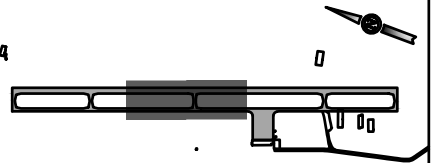
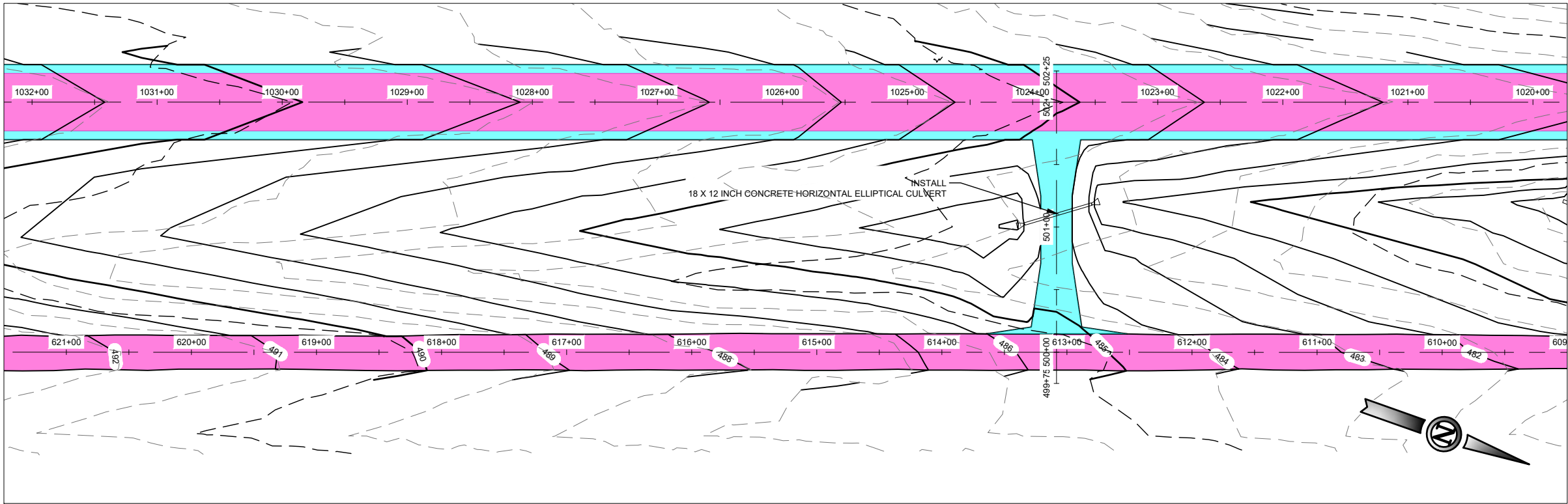
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PLAN & PROFILE
STA. 598+00 TO STA. 610+50
TAXIWAY A

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
C405
SHEET NO.
74 of 109



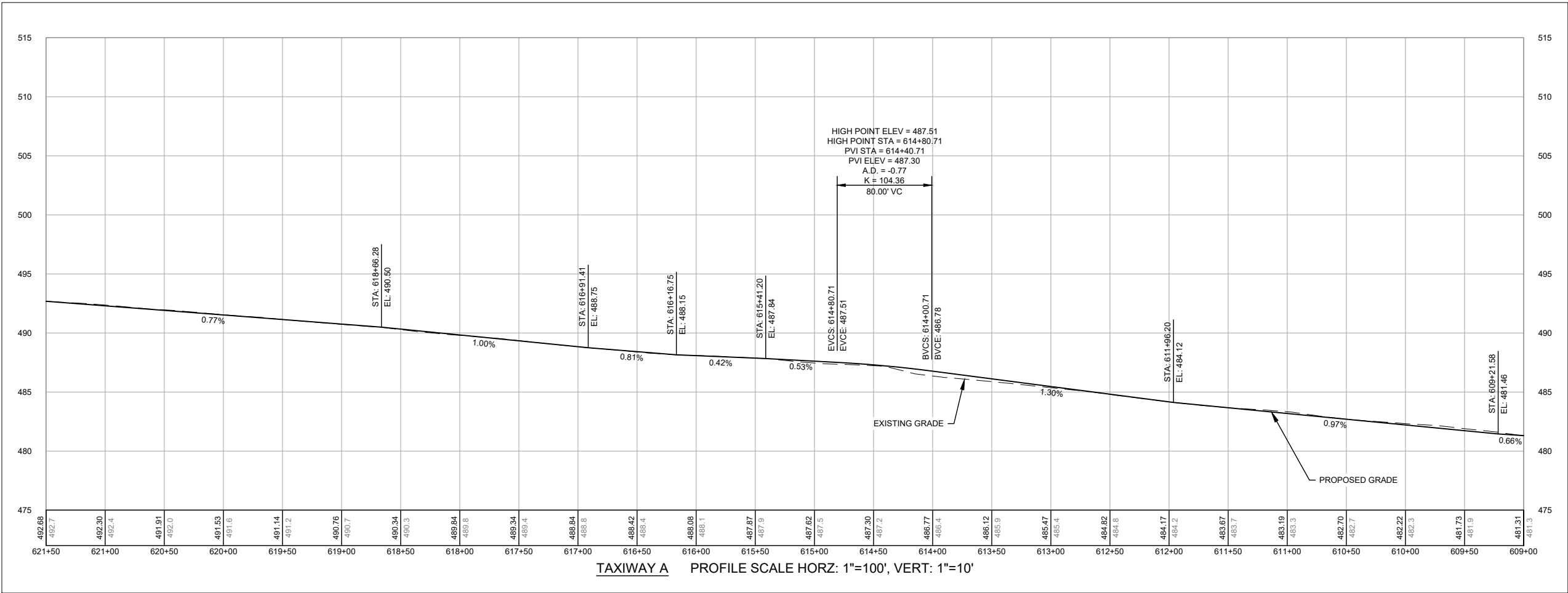
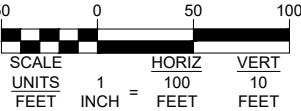
KEY MAP

PLAN LEGEND	
	FULL DEPTH ASPHALT INSTALLATION
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SWALE FLOW LINE

PROFILE LEGEND	
	PROPOSED GRADE
	EXISTING GROUND
	PROFILE BAND
	EXISTING ELEVATION
	PROPOSED ELEVATION

PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
- IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
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- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.

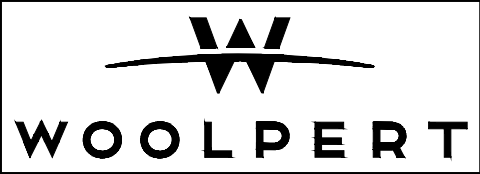


ISSUED FOR BID

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



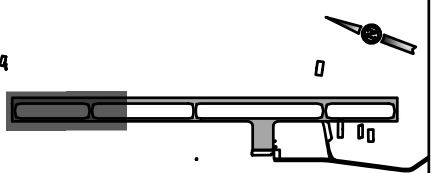
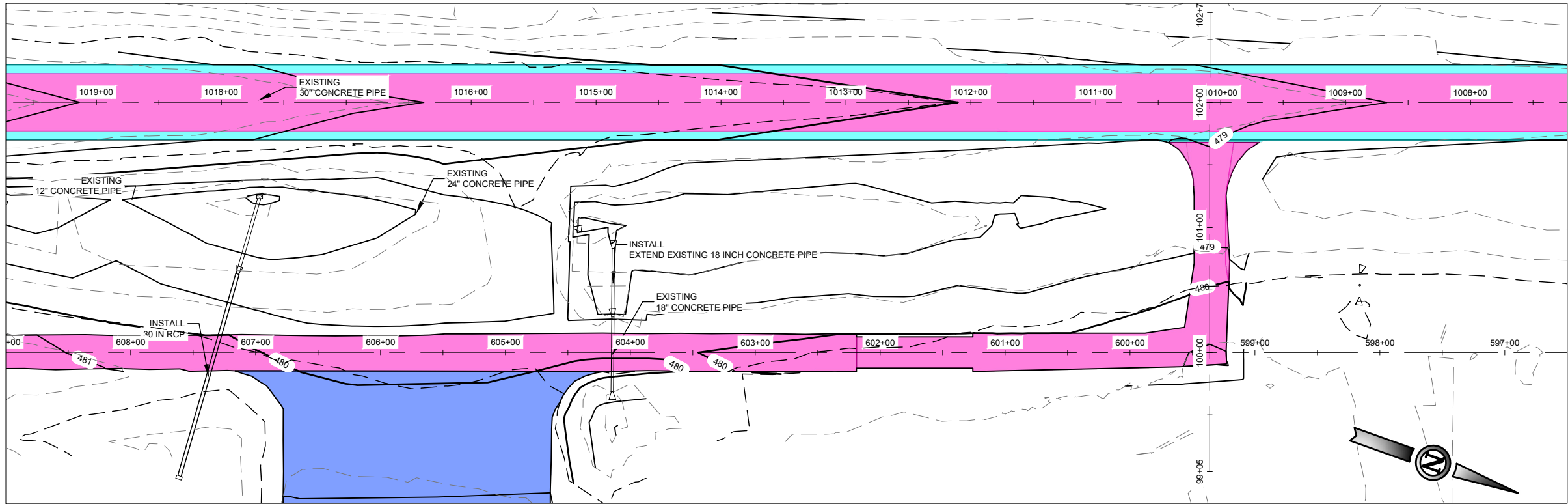
ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PLAN & PROFILE
STA. 610+50 TO STA. 623+00
TAXIWAY A

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	SHEET NAME C406
		SHEET NO. 75 of 109



KEY MAP

PLAN LEGEND

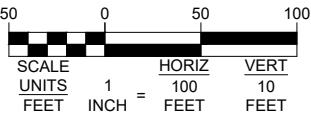
- FULL DEPTH ASPHALT INSTALLATION
- PARTIAL DEPTH ASPHALT PAVEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SWALE FLOW LINE

PROFILE LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- PROFILE BAND
- EXISTING ELEVATION
- PROPOSED ELEVATION

PLAN AND PROFILE NOTES

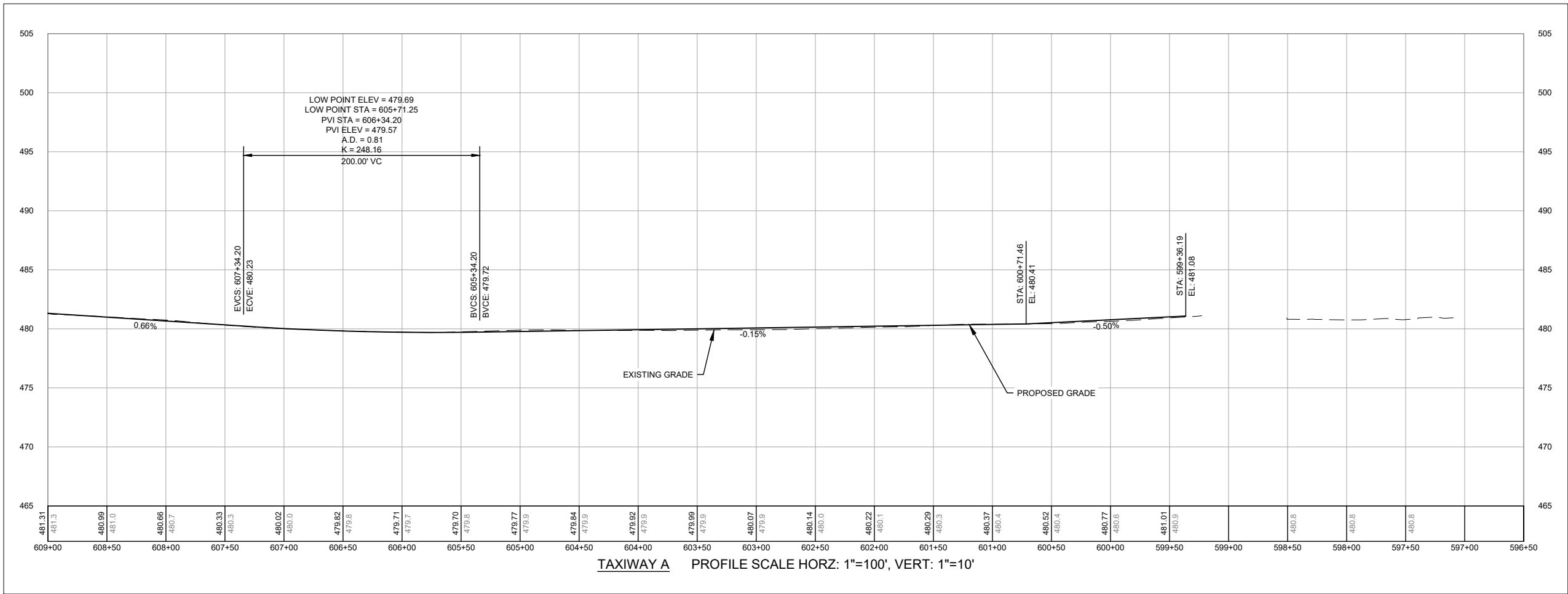
- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
- IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
- CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.



ISSUED FOR BID



GREGORY S. MOORE
PE NO. 15775
06/05/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



TAXIWAY A PROFILE SCALE HORZ: 1"=100', VERT: 1"=10'



ENNIS MUNICIPAL
AIRPORT

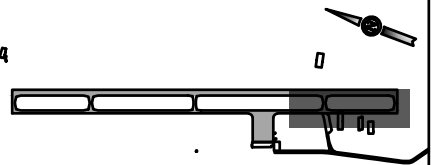
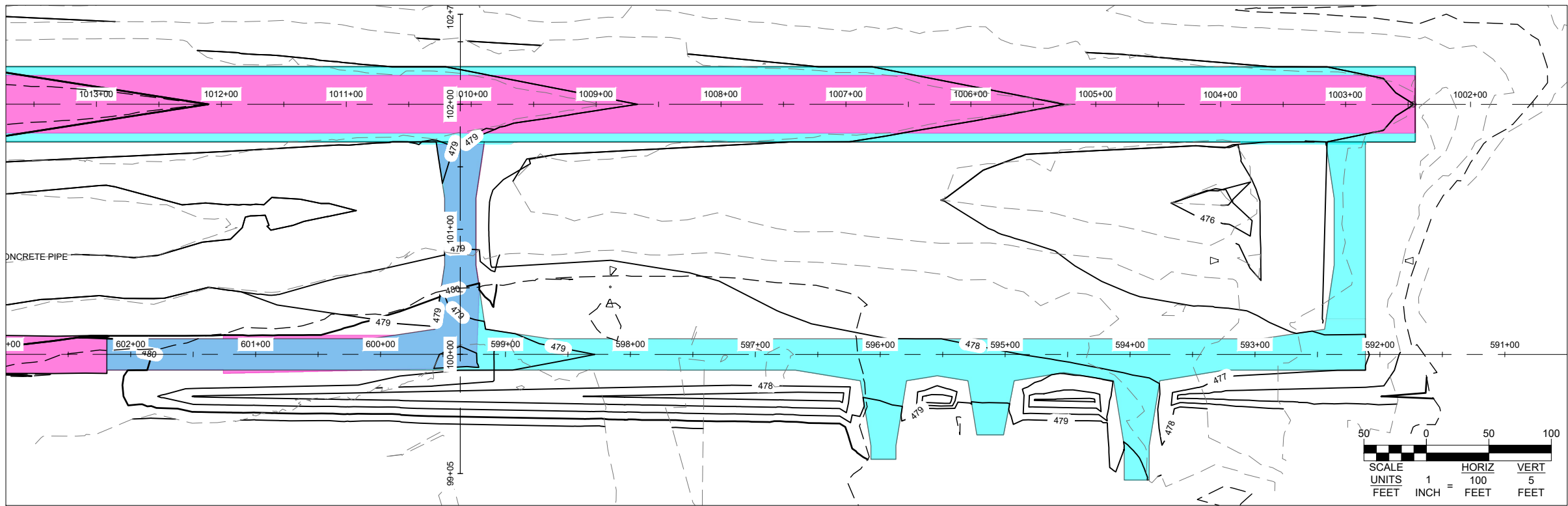
DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PLAN & PROFILE
STA. 623+00 TO STA. 633+66
TAXIWAY A

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C407
SHEET NO.
76 of 109



KEY MAP

PLAN LEGEND

- FULL DEPTH ASPHALT INSTALLATION
- PARTIAL DEPTH ASPHALT PAVEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SWALE FLOW LINE

PROFILE LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- PROFILE BAND
- EXISTING ELEVATION
- PROPOSED ELEVATION

- PLAN AND PROFILE NOTES**
- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
 - THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
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 - REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.

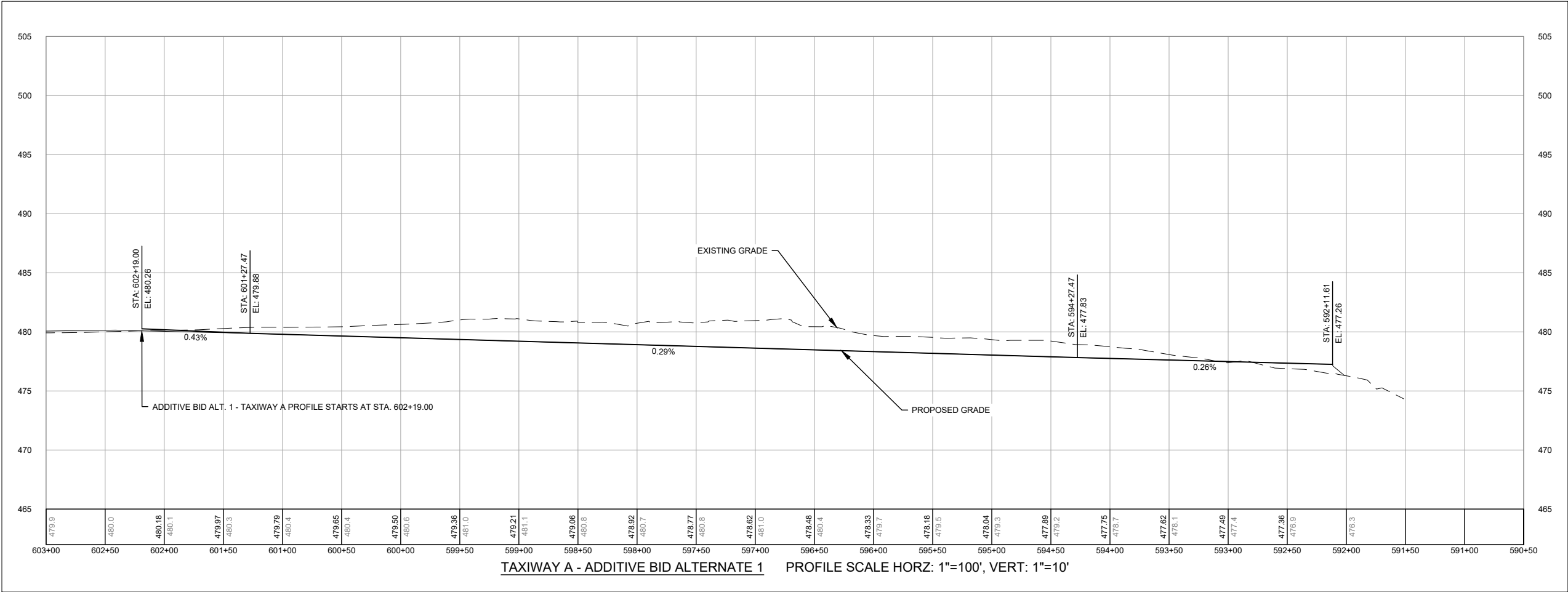


ISSUED FOR BID

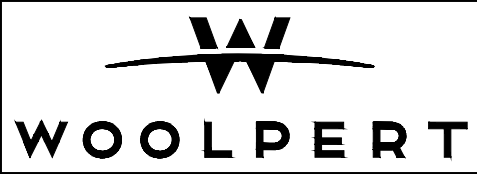
5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



Printed June 5, 2026 @ 11:17 AM by Walker, Jude
\\acquisitions\projects\12229 runway widening, taxiway extension, airfield electrical\CADD\PLANS\C408-141.TXD07-24-C408-PROF.dwg

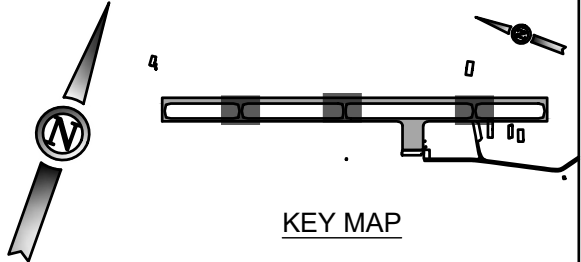
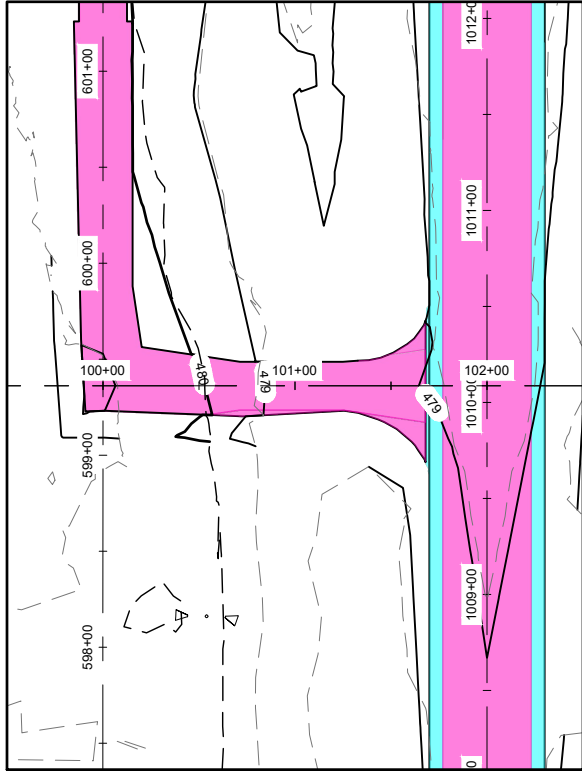
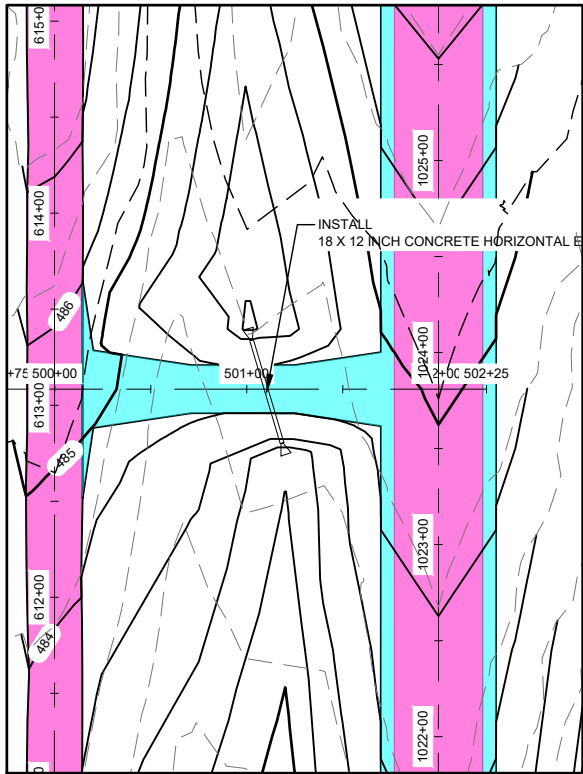
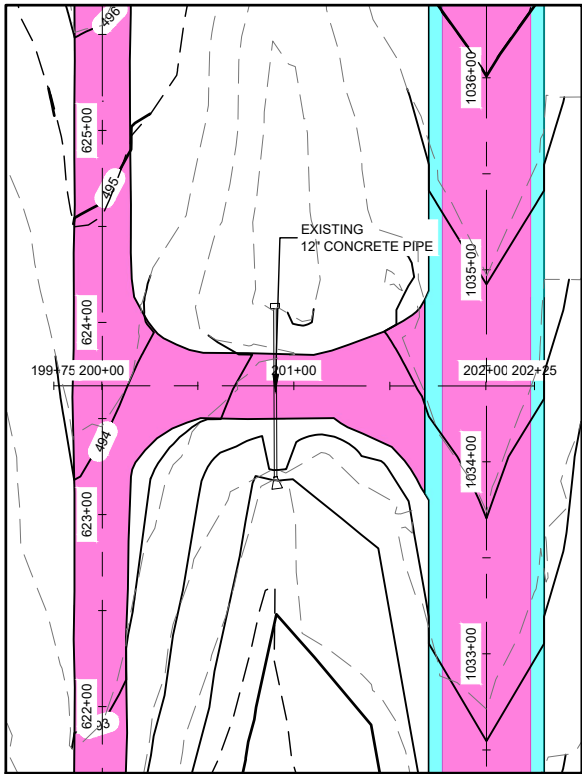


ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

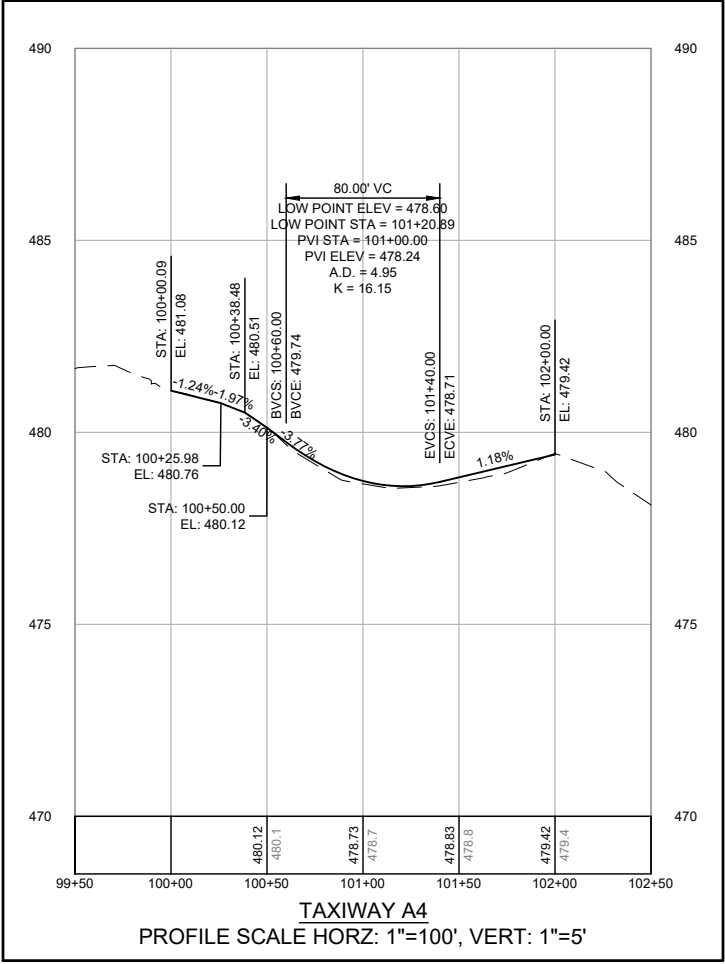
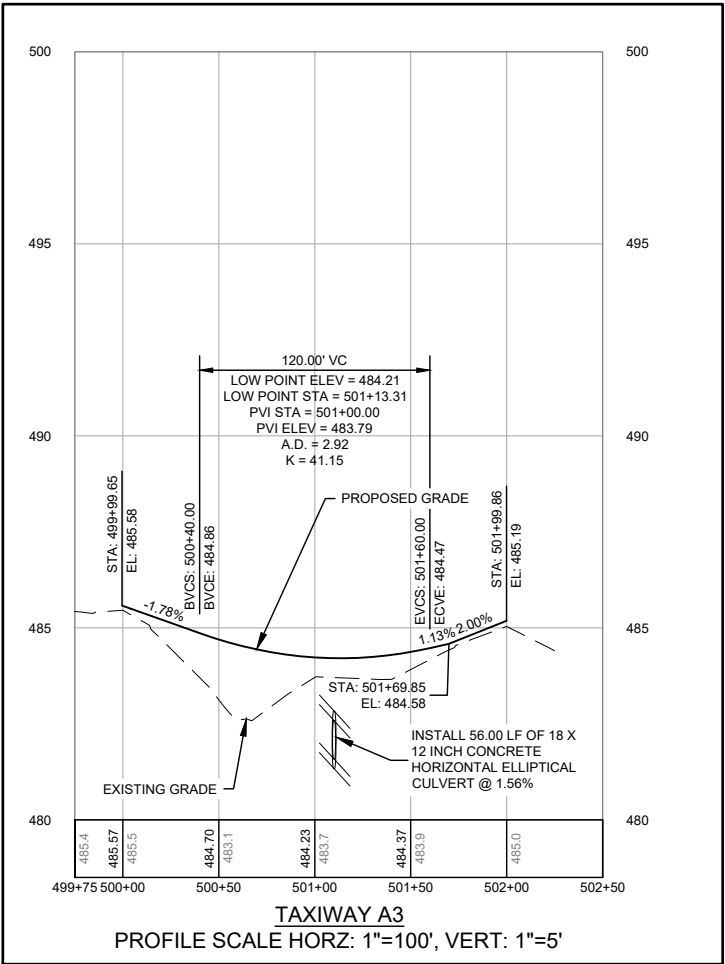
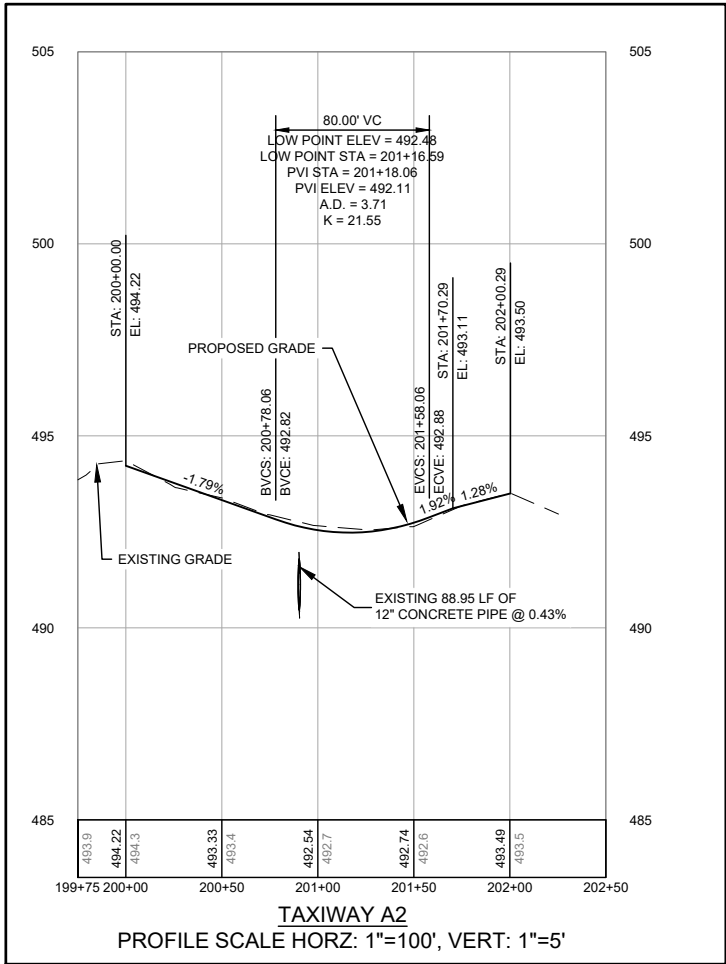
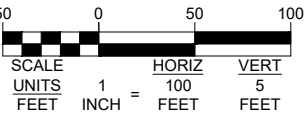
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PLAN & PROFILE STA. 590+50 TO STA. 603+00 TAXIWAY A ADDITIVE BID ALTERNATE NO. 1		SHEET NAME C408 SHEET NO. 77 of 109
STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	



PLAN LEGEND	
	FULL DEPTH ASPHALT INSTALLATION
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SWALE FLOW LINE
PROFILE LEGEND	
	PROPOSED GRADE
	EXISTING GROUND
	PROFILE BAND
	EXISTING ELEVATION
	PROPOSED ELEVATION

- PLAN AND PROFILE NOTES**
- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
 - THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
 - IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
 - CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.



ISSUED FOR BID

STATE OF TEXAS
GREGORY S. MOORE
157775
LICENSED PROFESSIONAL ENGINEER
5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

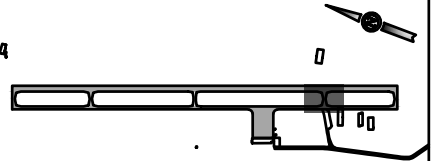
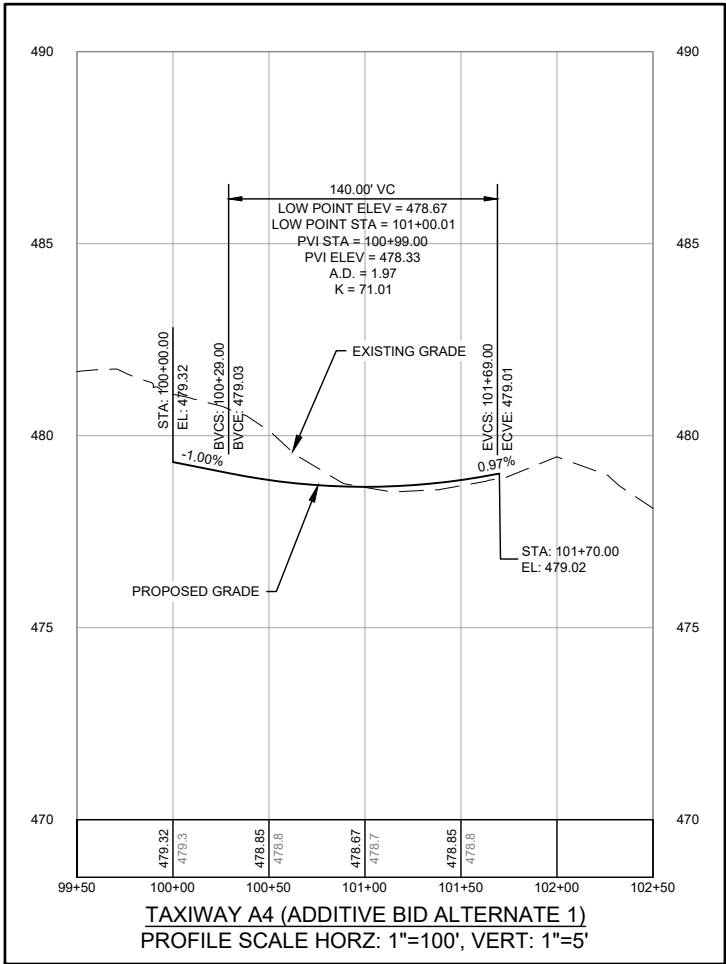
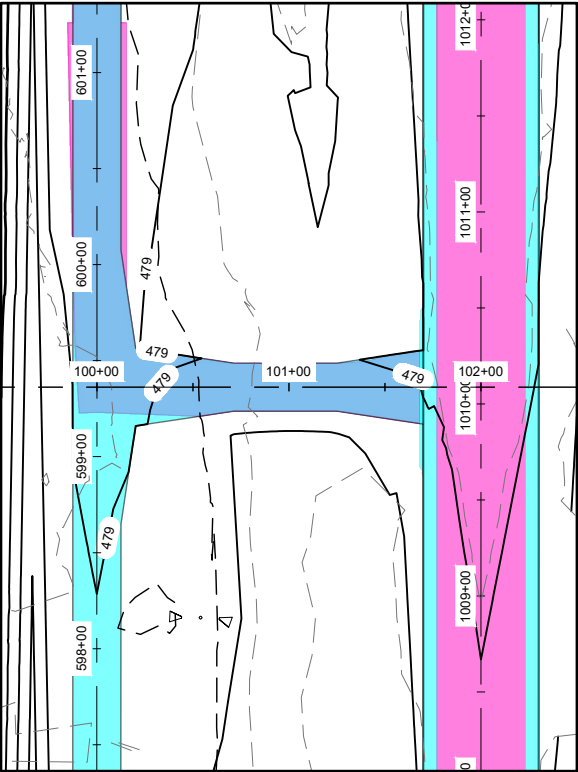
DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PLAN & PROFILE
TAXIWAY A2, TAXIWAY A3
AND TAXIWAY A4

STATE PROJ. NO. TXDOT CSJ NO.:2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01	SHEET NAME C409
		SHEET NO. 78 of 109

Printed June 5, 2026 @ 11:17 AM by: W. J. Moore
\\wpcad\projects\141226\runway widening, taxiway extension, airfield electrical\CAD\PLANS\C410-141226-PROF.dwg



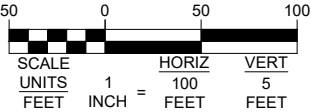
KEY MAP

PLAN LEGEND	
	FULL DEPTH ASPHALT INSTALLATION
	PARTIAL DEPTH ASPHALT PAVEMENT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SWALE FLOW LINE

PROFILE LEGEND	
	PROPOSED GRADE
	EXISTING GROUND
	PROFILE BAND
	EXISTING ELEVATION
	PROPOSED ELEVATION

PLAN AND PROFILE NOTES

- REFER TO SHEETS C221 THRU C222 FOR TYPICAL SECTIONS.
- THE DEPTH OF EXISTING UTILITIES MAY VARY AND SHOULD BE FIELD VERIFIED.
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- CONTRACTOR TO VERIFY EXISTING TIE POINTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO SHEETS C501 THRU C502 FOR CULVERT/PIPE DESIGN AND LOCATIONS.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

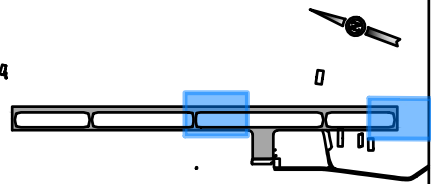
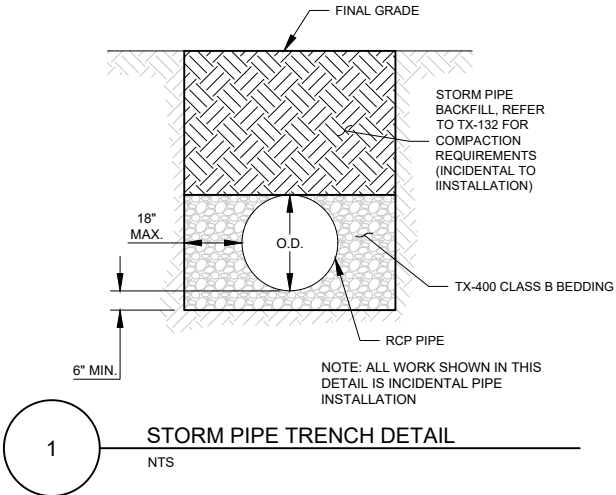
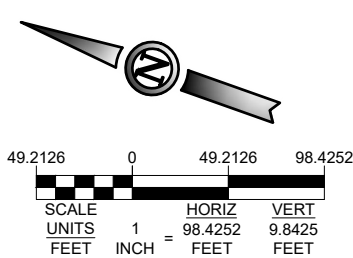
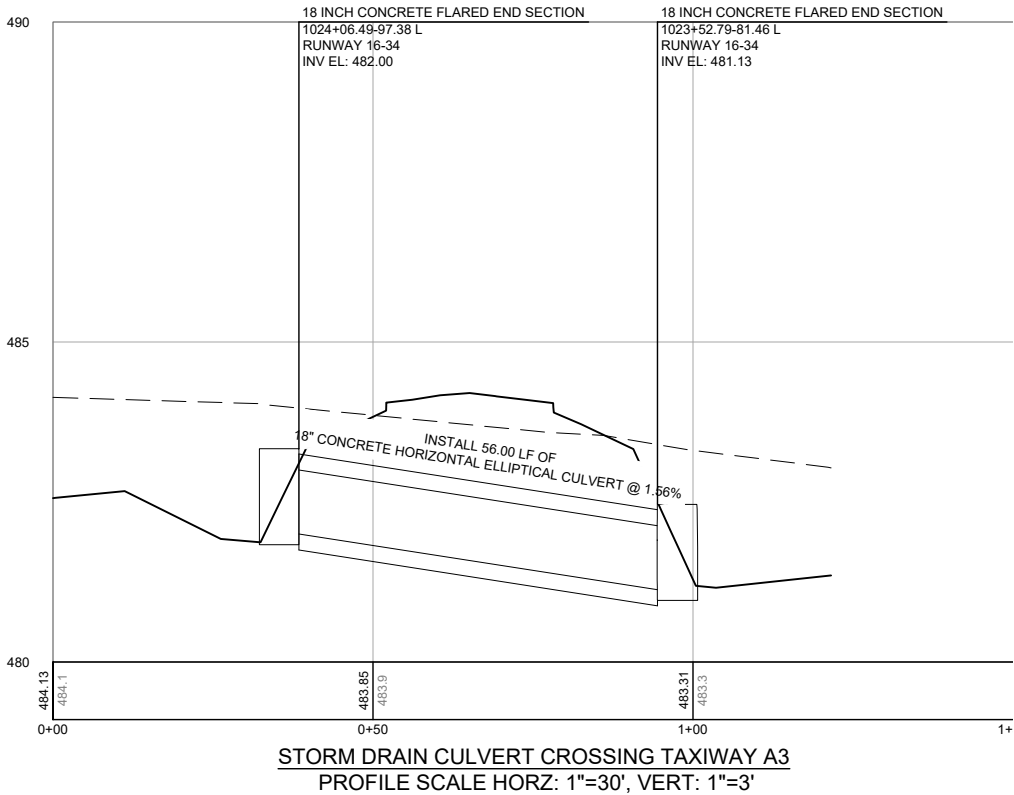
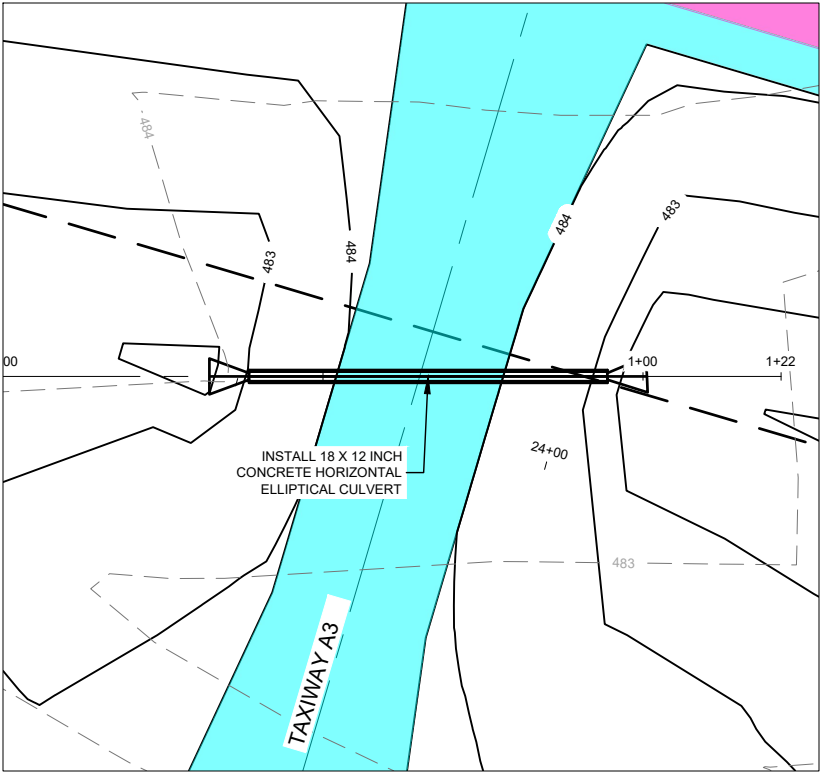
DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PLAN & PROFILE
TAXIWAY A4
ADDITIVE BID ALTERNATE NO. 1

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C410
SHEET NO.
79 of 109



- KEY MAP**
- STORM PLAN AND PROFILE NOTES**
- FOR DRAINAGE DETAILS, SEE **SHEETS C521 THRU C522**.
 - THE DEPTH OF EXISTING UTILITIES ARE APPROXIMATE. ACTUAL DEPTHS MAY VARY AND SHOULD BE FIELD VERIFIED.
 - ALL STATIONING FOR STORM PIPE IS AT CENTERLINE OF STORM PIPE.
 - STATION AND OFFSETS FOR DRAINAGE STRUCTURES ARE TO THE CENTER OF THE STRUCTURE.

STORM LEGEND

- FULL DEPTH ASPHALT PAVEMENT
- PARTIAL DEPTH ASPHALT PAVEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SWALE FLOW LINE
- STORM PIPE
- TRENCH DRAIN
- RIPRAP PAD
- STORM INLET
- FLARED END SECTION
- STORM MANHOLE

PROFILE LEGEND

- PROPOSED GRADE
- EXISTING GROUND
- PROFILE BAND
- EXISTING ELEVATION
- PROPOSED ELEVATION

ISSUED FOR BID

STATE OF TEXAS

GREGORY S. MOORE

157775

PROFESSIONAL ENGINEER

Gregory S. Moore

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

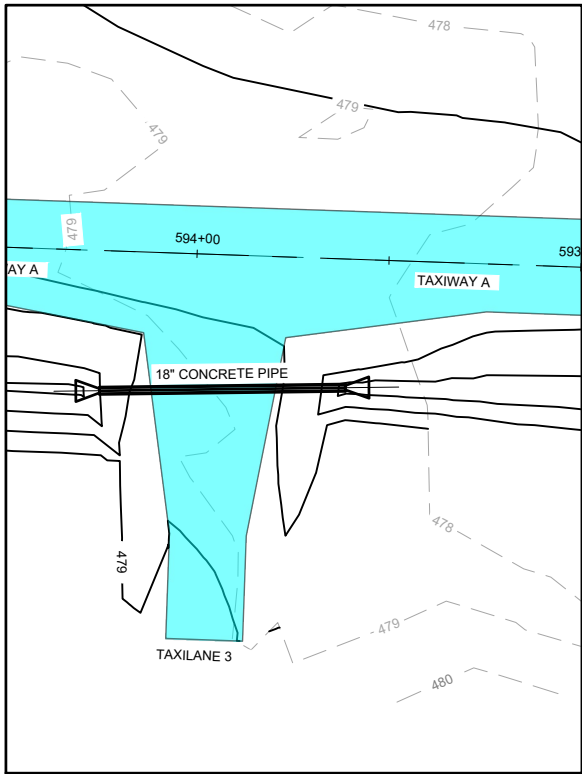
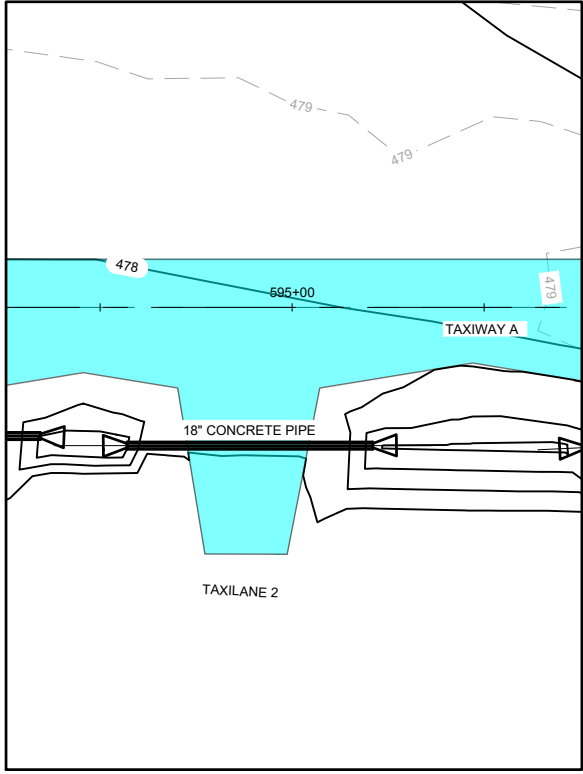
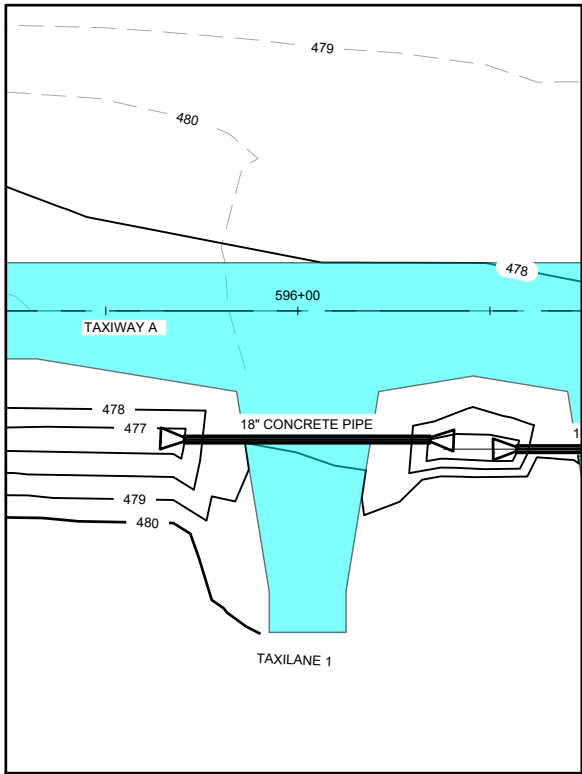
DRAINAGE PLAN AND PROFILE
TAXIWAY A3

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
C501

SHEET NO.
80 of 109



STORM PLAN AND PROFILE NOTES

- FOR DRAINAGE DETAILS, SEE SHEETS C521 THRU C522.
- THE DEPTH OF EXISTING UTILITIES ARE APPROXIMATE. ACTUAL DEPTHS MAY VARY AND SHOULD BE FIELD VERIFIED.
- ALL STATIONING FOR STORM PIPE IS AT CENTERLINE OF STORM PIPE.
- STATION AND OFFSETS FOR DRAINAGE STRUCTURES ARE TO THE CENTER OF THE STRUCTURE.

STORM LEGEND

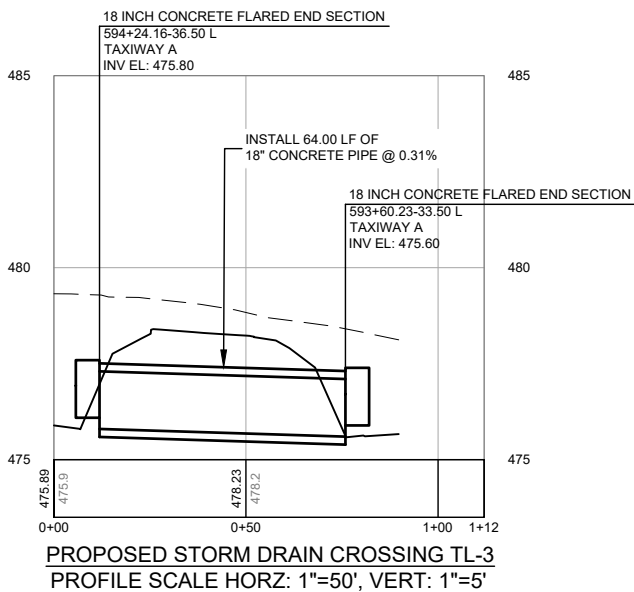
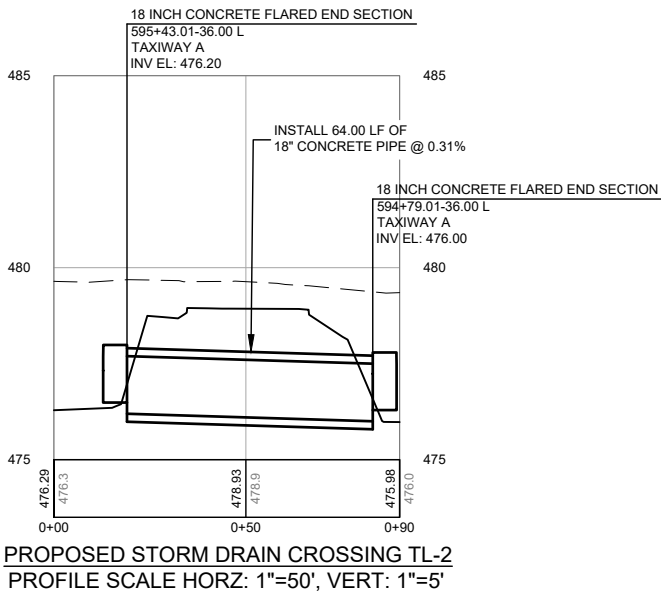
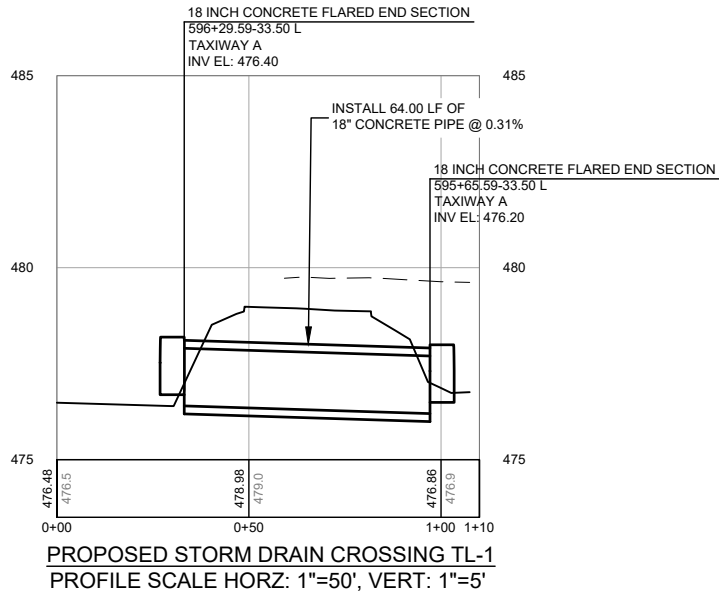
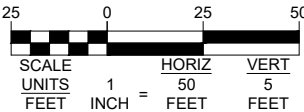
Legend for storm plan symbols:

- Full Depth Asphalt Pavement (Blue fill)
- Partial Depth Asphalt Pavement (Pink fill)
- Existing Major Contour (Dashed line)
- Existing Minor Contour (Dashed line)
- Proposed Major Contour (Solid line)
- Proposed Minor Contour (Solid line)
- Swale Flow Line (Dashed line with arrows)
- Storm Pipe (Thick solid line)
- Trench Drain (Thin solid line)
- Riprap Pad (Stippled pattern)
- Storm Inlet (Circle with 'C')
- Flared End Section (Circle with 'F')
- Storm Manhole (Circle with 'M')

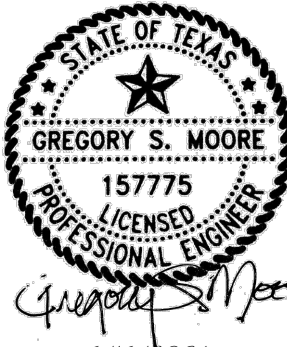
PROFILE LEGEND

Legend for profile symbols:

- Proposed Grade (Solid line)
- Existing Ground (Dashed line)
- Profile Band (Thick solid line)
- Existing Elevation (Dashed line)
- Proposed Elevation (Solid line)



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

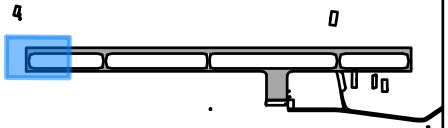
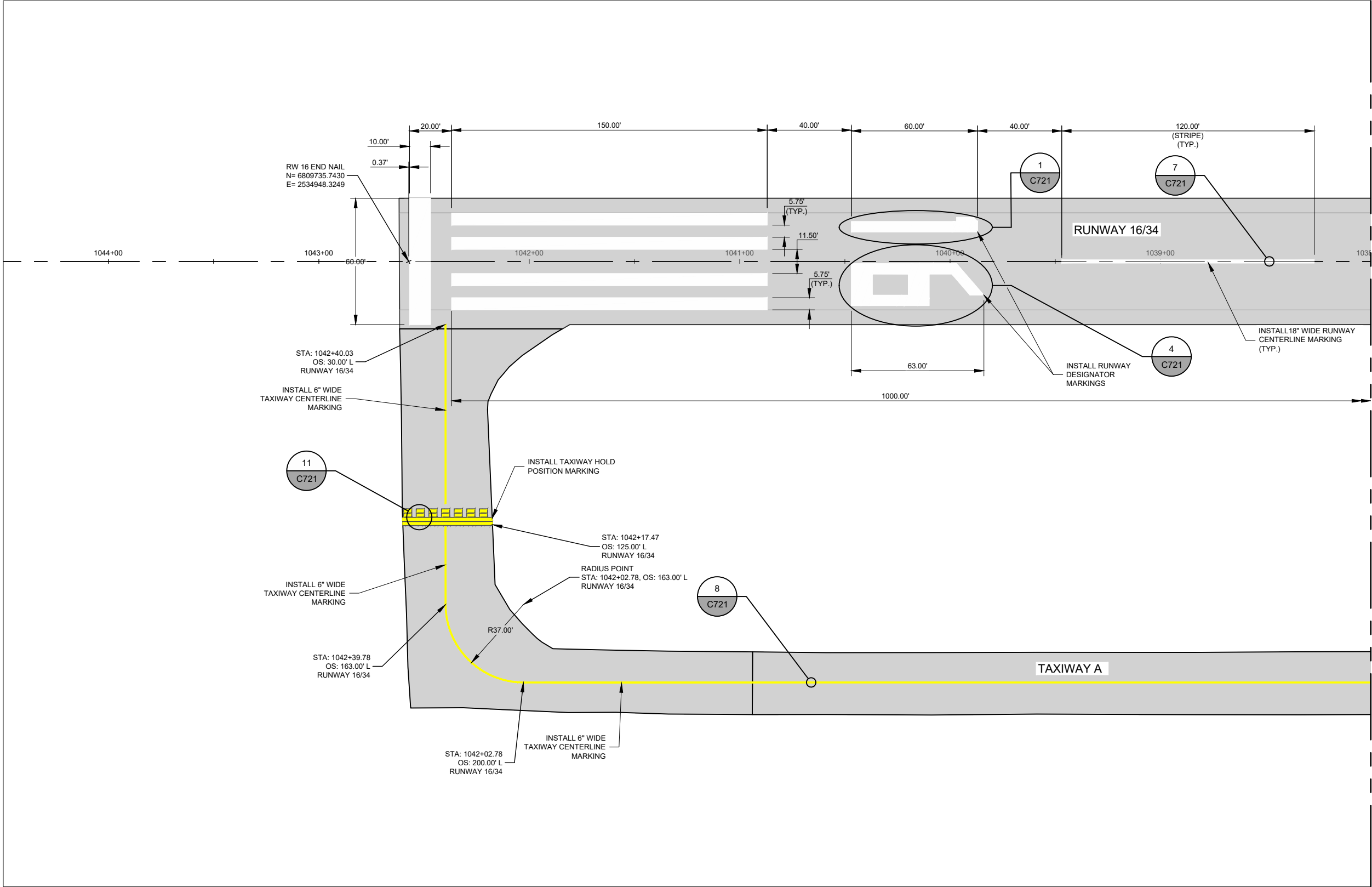
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

DRAINAGE PLAN & PROFILE
TAXILANE 1, TAXILANE 2, AND TAXILANE 3
ADDITIVE ALTERNATE BID NO. 1

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C502
SHEET NO.
81 of 109

Plotted June 5, 2026 @ 11:19 AM by: Walker, Jude
\\aquilone\projects\12024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\070-F41-TXDOT-24-C700-PANT.dwg



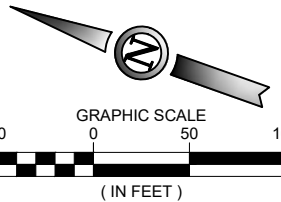
KEY MAP

PAINTING LEGEND

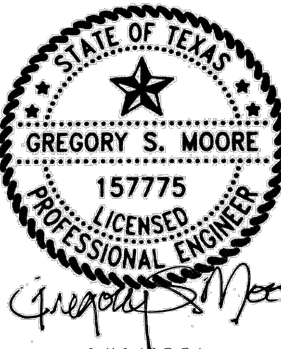
	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

NOTES

- UNLESS OTHERWISE SPECIFIED, ALL TAXIWAY MARKINGS SHALL BE YELLOW AND ALL RUNWAY MARKINGS SHALL BE WHITE IN ACCORDANCE WITH SPECIFICATION P-620.
- ADJUST RUNWAY CENTERLINE STRIPE AND SPACING BETWEEN STRIPES AT CENTER POINT OF RUNWAY TO ACCOMMODATE RUNWAY LENGTH. THE SPACING SHALL BE AS SHOWN ON SHEET ####.
- CONTRACTOR WILL BE REQUIRED TO REPAINT ANY MARKINGS THAT ARE OUTSIDE THE PROJECT WORK LIMITS WHICH ARE DAMAGED BY THE CONTRACTORS OPERATIONS. REPAINTING OF THESE DAMAGED AREAS WILL BE AT THE CONTRACTORS EXPENSE.
- PAINT SHOULD BE STORED IN A CLIMATE-CONTROLLED ENVIRONMENT IN ORDER TO MEET MANUFACTURERS RECOMMENDED TEMPERATURES BEFORE IT IS APPLIED. MATERIAL THAT DOES NOT MEET REQUIRED TEMPERATURE REQUIREMENTS WILL BE WARMED TO THE MINIMUM TEMPERATURE FOR 24 HOURS BEFORE IT IS APPLIED OR AS APPROVED BY THE RESIDENT ENGINEER.
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- RUNWAY MARKINGS HAVE PRECEDENCE OVER THE TAXIWAY LEAD IN LINES ON CENTERLINE MARKINGS.
- PLEASE FIND CONTINUED PAVEMENT MARKING GENERAL NOTES ON PAVEMENT MARKING DETAIL SHEET C721.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING PLAN
STA. 1042+61.82 TO STA. 1038+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C701

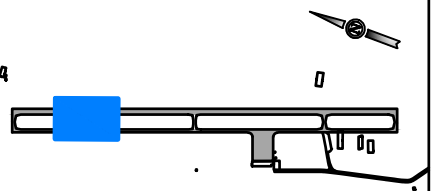
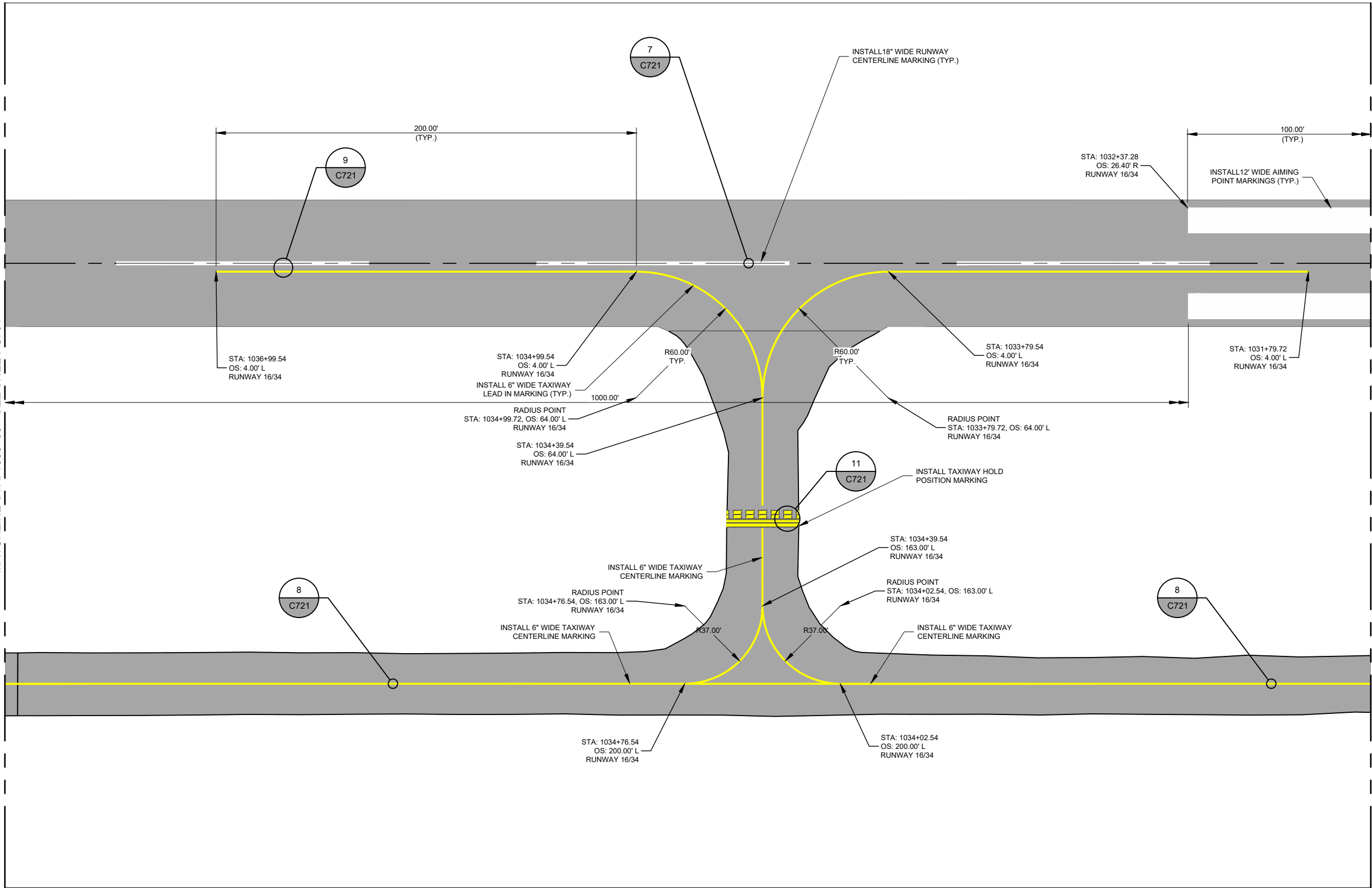
SHEET NO.

82 of 109

Printed June 5, 2026 @ 11:19 AM by: Walker, Jude
\\wac\projects\2026\2026 runway widening, taxiway extension, airfield electrical\CAD\PLANS\2026\41-TXDOT-24-C702-PANT.dwg

MATCHLINE STA. 1038+00 - SEE SHEET C701

MATCHLINE STA. 1031+50 - SEE SHEET C703



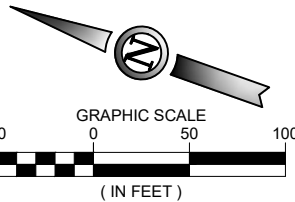
KEY MAP

PAINTING LEGEND

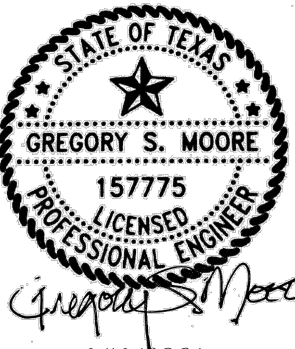
	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

NOTES

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- PLEASE FIND CONTINUED PAVEMENT MARKING GENERAL NOTES ON PAVEMENT MARKING DETAIL SHEET C721.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING PLAN
STA. 1038+00 TO STA. 1031+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C702

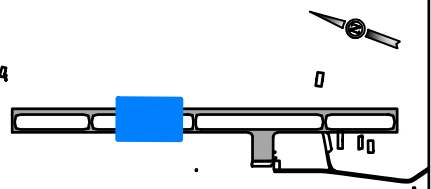
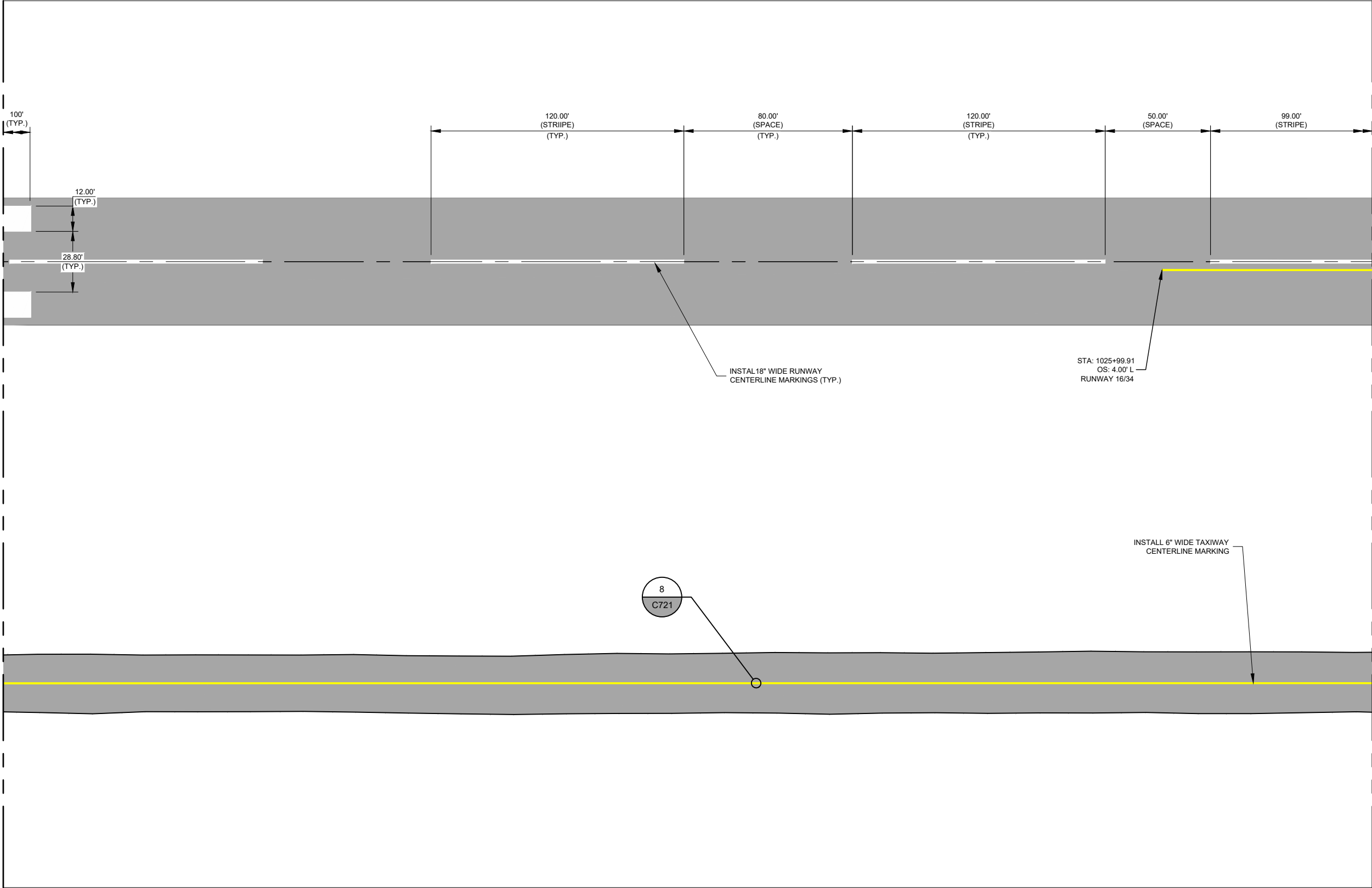
SHEET NO.

83 of 109

Printed June 5, 2026 @ 11:19 AM by: Walker, Jude
\\waulpert\cadd\projects\12024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\070-041.TXD07-24-C703-PANT.dwg

MATCHLINE STA. 1031+50 - SEE SHEET C702

MATCHLINE STA. 1025+00 - SEE SHEET C704

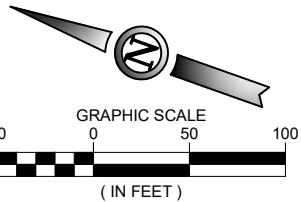


KEY MAP

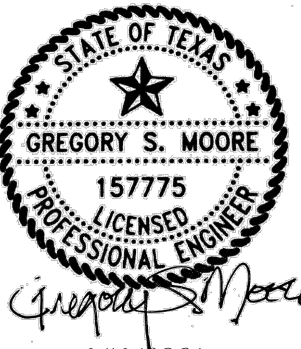
PAINTING LEGEND	
	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

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- PLEASE FIND CONTINUED PAVEMENT MARKING GENERAL NOTES ON PAVEMENT MARKING DETAIL SHEET C721.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING PLAN
STA. 1031+50 TO STA. 1025+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

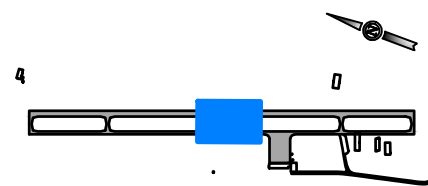
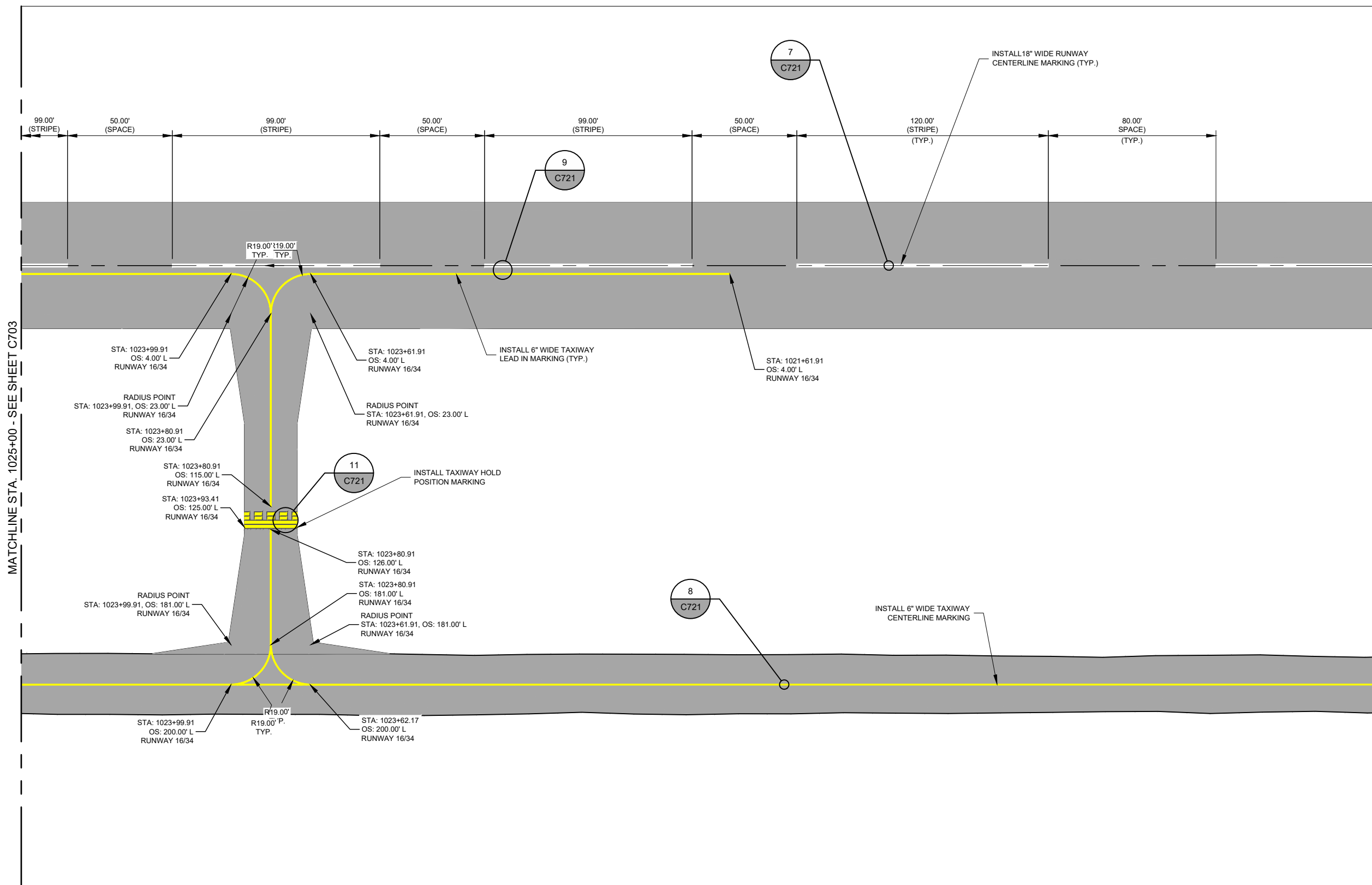
WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C703

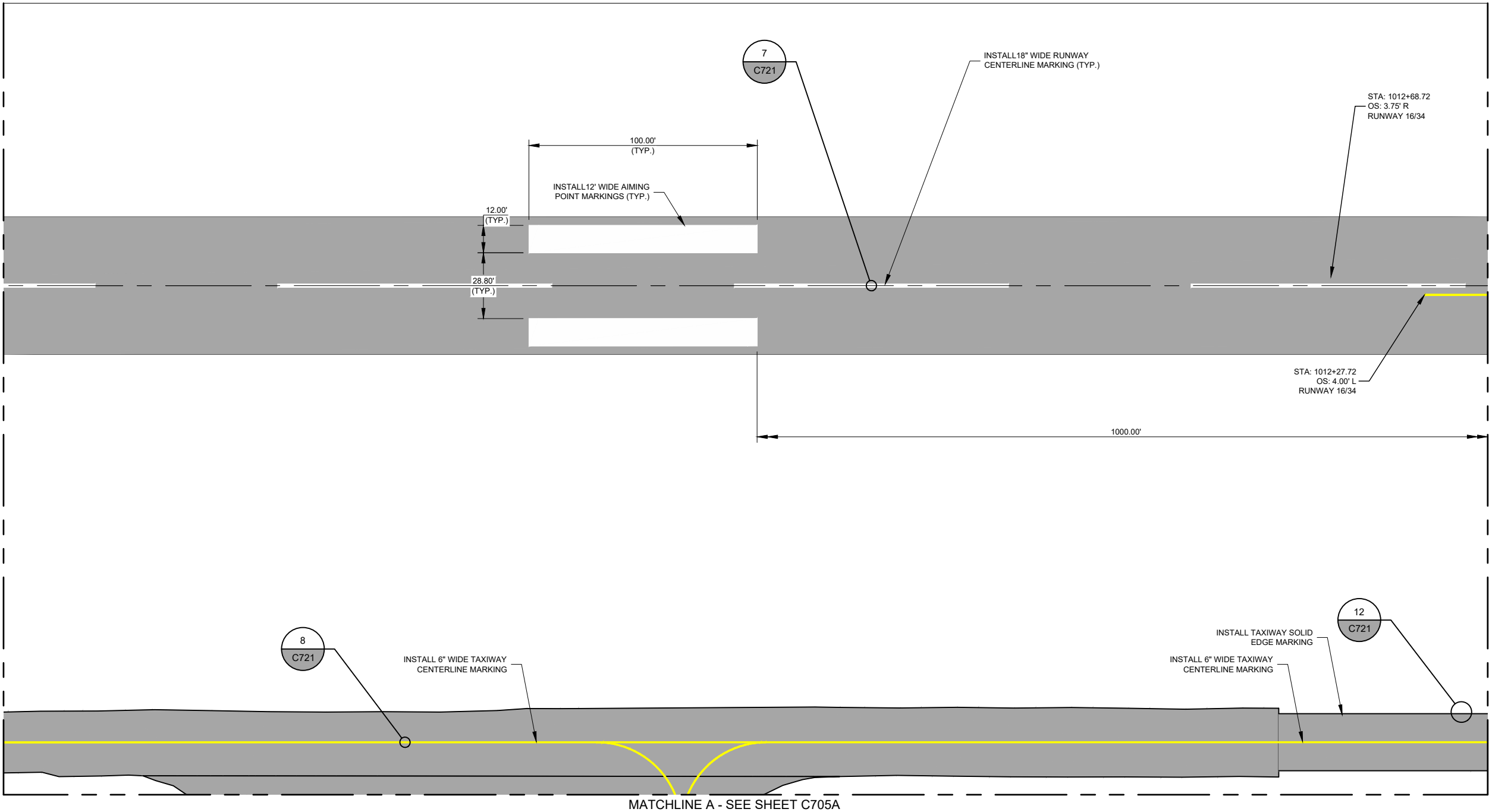
SHEET NO.

84 of 109



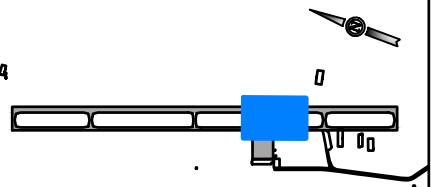
Printed June 5, 2026 @ 11:19 AM by: Walker, Jude
\\wac\projects\CV\projects\1412026 runway widening, taxiway extension, airfield electrical\CAD\PLANS\070541.TXD07-24-C705-PANT.dwg

MATCHLINE STA. 1012+00 - SEE SHEET C704



MATCHLINE A - SEE SHEET C705A

MATCHLINE STA. 1018+50 - SEE SHEET C706



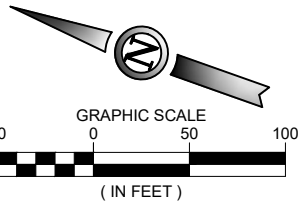
KEY MAP

PAINTING LEGEND

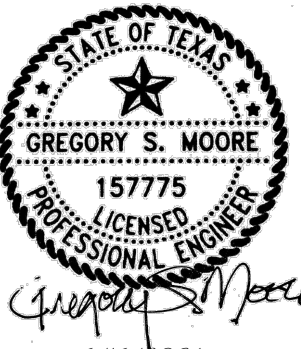
	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

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- PLEASE FIND CONTINUED PAVEMENT MARKING GENERAL NOTES ON PAVEMENT MARKING DETAIL SHEET C721.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 15775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

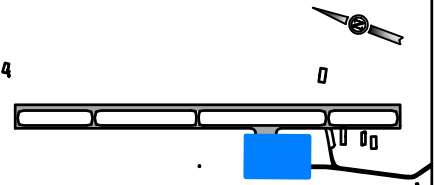
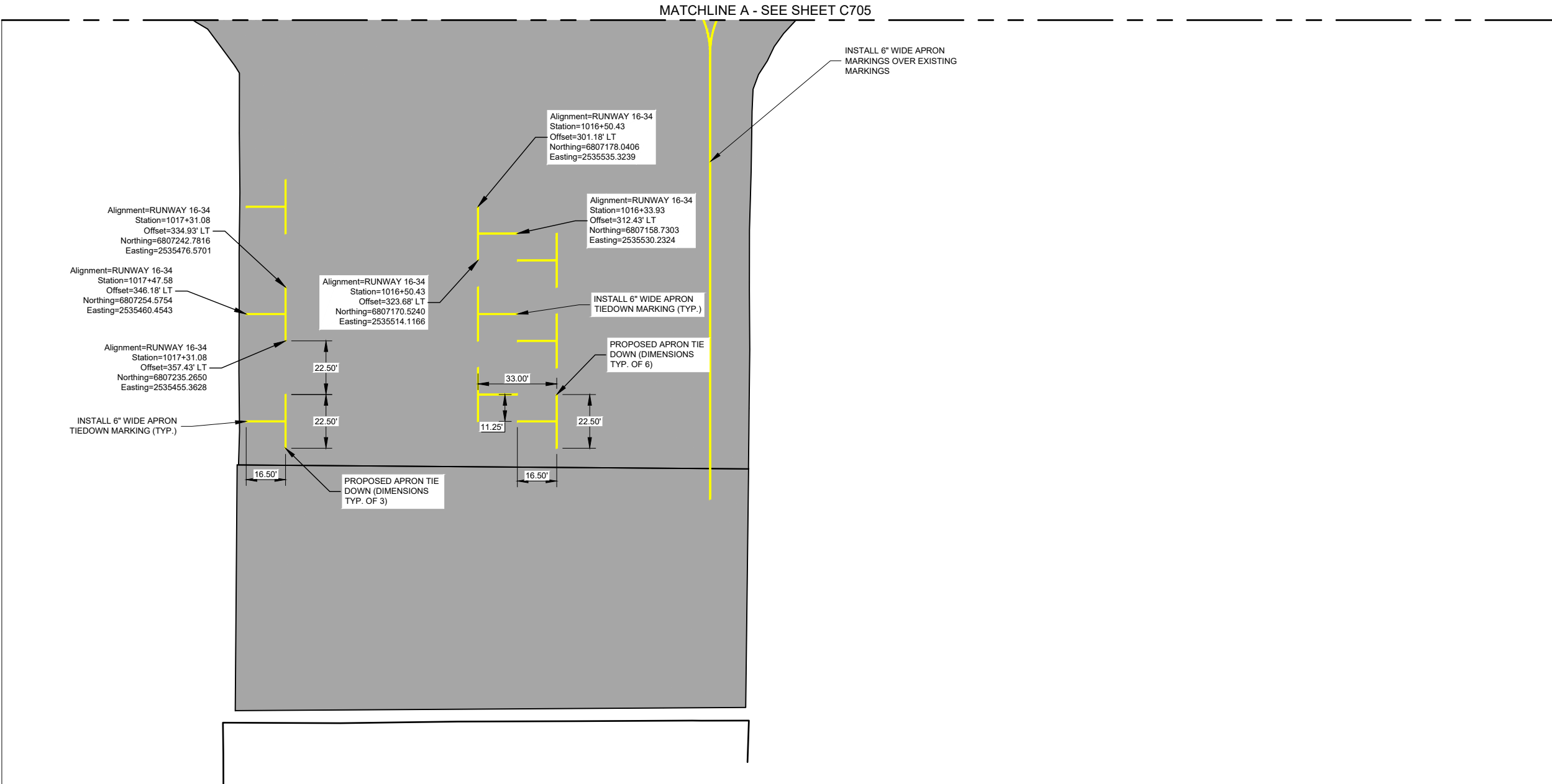
PAVEMENT MARKING PLAN
STA. 1018+50 TO STA. 1012+00 AND MATCHLINE A
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01
---	--

SHEET NAME
C705

SHEET NO.
86 of 109

Plotted July 28, 2026 @ 1:36 PM by: Holland, Kenneth
\\wacquisitions\projects\12224 runway widening, taxiway extension, airfield electrical\cadd\plans\2026\41 TXDOT-24-C705A-PANT.dwg



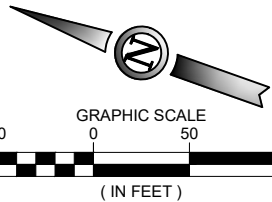
KEY MAP

PAINTING LEGEND

	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

NOTES

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ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING PLAN
MATCHLINE A
APRON

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C705A

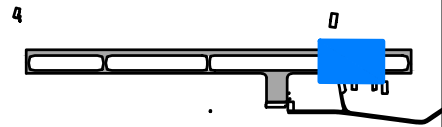
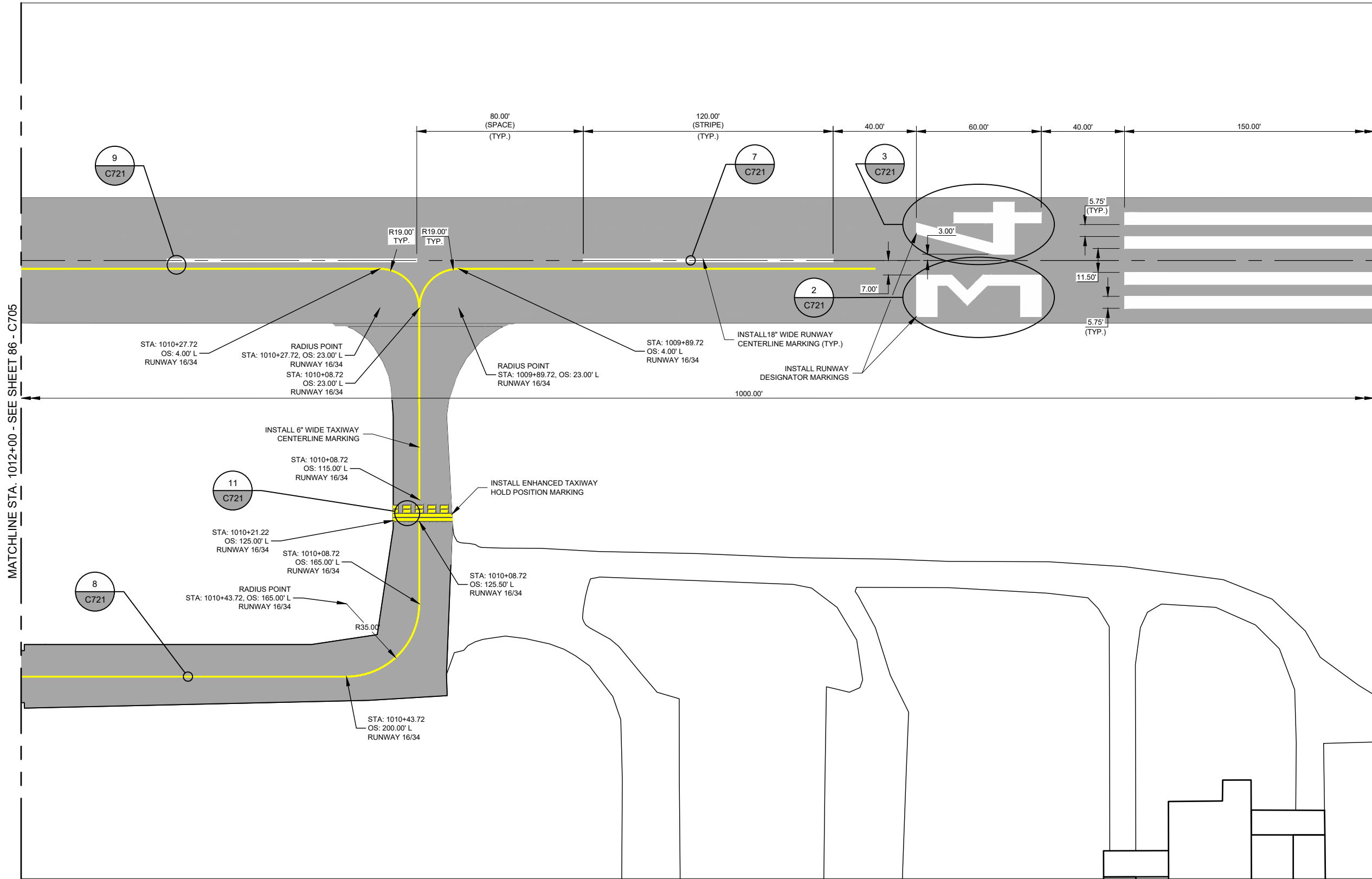
SHEET NO.

87 of 109

Printed June 5, 2026 @ 11:19 AM by Walker, Jude
\\aquilone\projects\1412024\runway widening, taxiway extension, airfield electrical\CAD\PLANS\070-041-TXDOT-24-C706-PANT.dwg

MATCHLINE STA. 1012+00 - SEE SHEET 86 - C705

MATCHLINE STA. 1005+50 - SEE SHEET C707

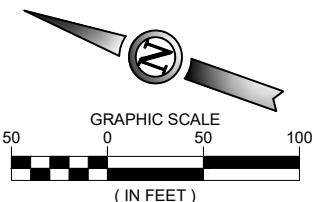


KEY MAP

PAINTING LEGEND	
	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

NOTES

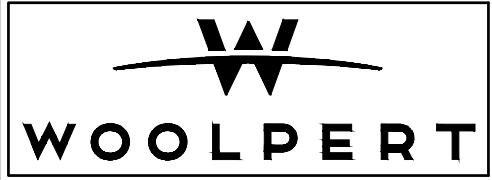
- UNLESS OTHERWISE SPECIFIED, ALL TAXIWAY MARKINGS SHALL BE YELLOW AND ALL RUNWAY MARKINGS SHALL BE WHITE IN ACCORDANCE WITH SPECIFICATION P-620.
- ADJUST RUNWAY CENTERLINE STRIPE AND SPACING BETWEEN STRIPES AT CENTER POINT OF RUNWAY TO ACCOMMODATE RUNWAY LENGTH. THE SPACING SHALL BE AS SHOWN ON SHEET ###.
- CONTRACTOR WILL BE REQUIRED TO REPAINT ANY MARKINGS THAT ARE OUTSIDE THE PROJECT WORK LIMITS WHICH ARE DAMAGED BY THE CONTRACTORS OPERATIONS. REPAINTING OF THESE DAMAGED AREAS WILL BE AT THE CONTRACTORS EXPENSE.
- PAINT SHOULD BE STORED IN A CLIMATE-CONTROLLED ENVIRONMENT IN ORDER TO MEET MANUFACTURERS RECOMMENDED TEMPERATURES BEFORE IT IS APPLIED. MATERIAL THAT DOES NOT MEET REQUIRED TEMPERATURE REQUIREMENTS WILL BE WARMED TO THE MINIMUM TEMPERATURE FOR 24 HOURS BEFORE IT IS APPLIED OR AS APPROVED BY THE RESIDENT ENGINEER.
- RATES OF APPLICATION SHALL BE AS SPECIFIED IN SECTION P-620.
- ALL PERMANENT MARKINGS SHALL BE APPLIED DURING DAYLIGHT HOURS ONLY.
- GLASS BEADS SHALL BE APPLIED TO ALL TEMPORARY AND PERMANENT PAVEMENT MARKINGS. APPLICATION RATES AND GLASS BEAD TYPE SHALL BE AS SPECIFIED IN ITEM P-620. GLASS BEADS SHALL NOT BE APPLIED TO BLACK PAINT.
- UNLESS OTHERWISE SPECIFIED, ALL TAXIWAY MARKINGS ARE 6" WIDE (YELLOW).
- UNLESS OTHERWISE SPECIFIED, ALL RUNWAY MARKINGS ARE 3'-0" WIDE (WHITE).
- RUNWAY MARKINGS HAVE PRECEDENCE OVER THE TAXIWAY LEAD IN LINES ON CENTERLINE MARKINGS.
- PLEASE FIND CONTINUED PAVEMENT MARKING GENERAL NOTES ON PAVEMENT MARKING DETAIL SHEET C721.



ISSUED FOR BID

GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



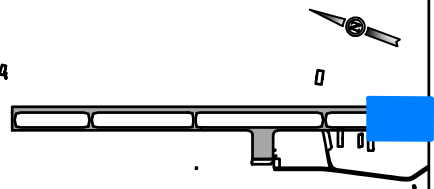
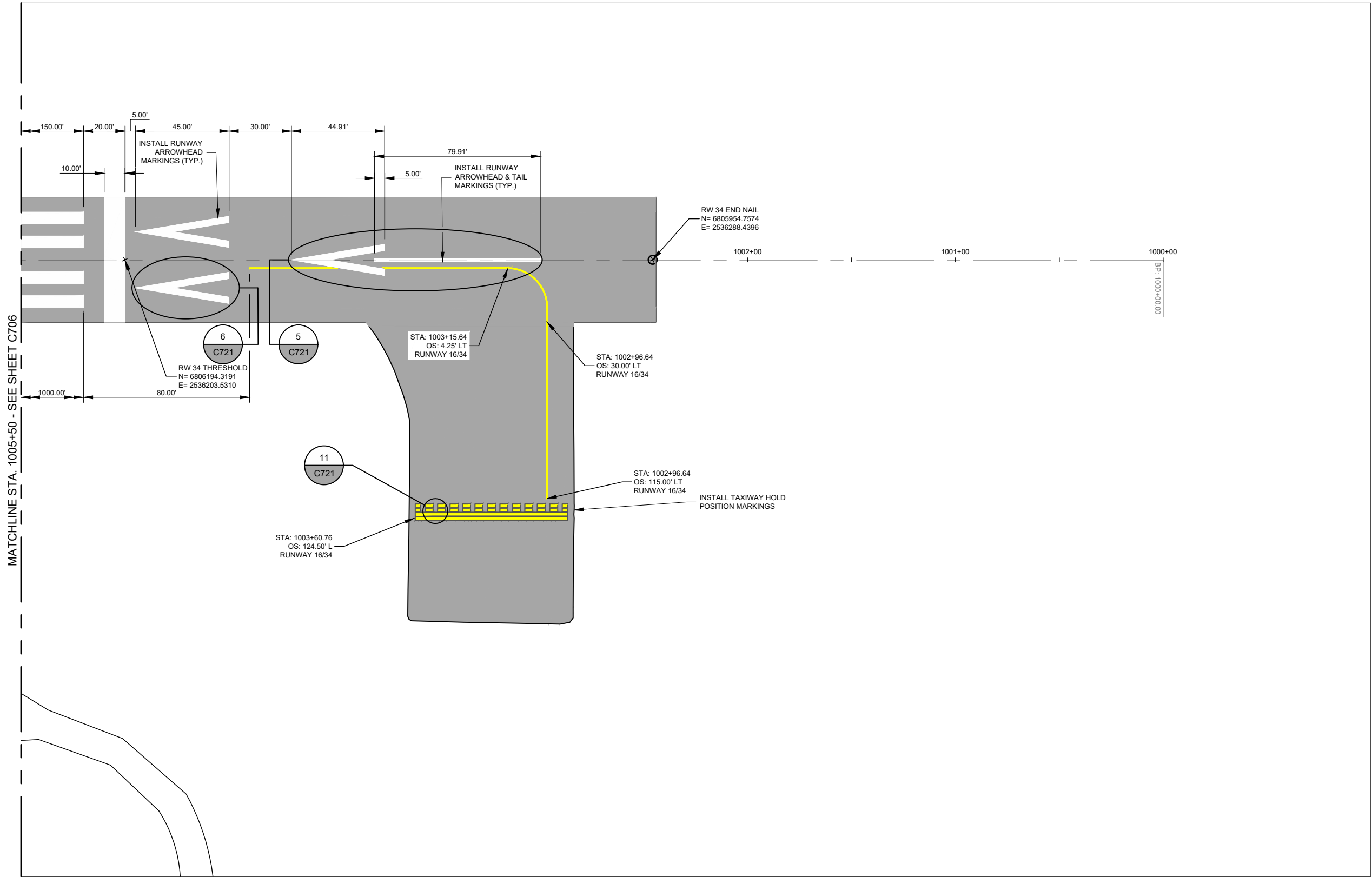
DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING PLAN STA. 1012+00 TO STA. 1005+50 RUNWAY 16/34	
STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS	WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
C706
SHEET NO.
88 of 109

Printed June 5, 2026 @ 11:19 AM by: Walker, Jude
\\wac\planning\projects\1412024 runway widening, taxiway extension, airfield electrical\CAD\PLANS\070541.TXD07-24-C700-PANT.dwg



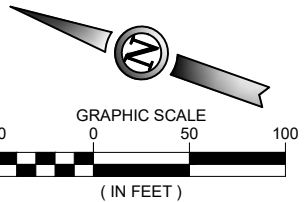
KEY MAP

PAINTING LEGEND

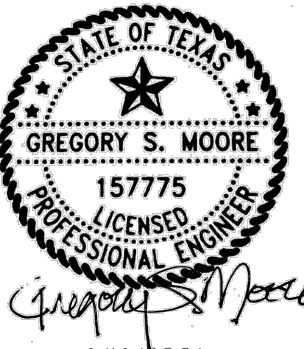
	PROPOSED RUNWAY MARKINGS
	PROPOSED TAXIWAY MARKINGS
	EXISTING MARKINGS

NOTES

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- PAINT SHOULD BE STORED IN A CLIMATE-CONTROLLED ENVIRONMENT IN ORDER TO MEET MANUFACTURERS RECOMMENDED TEMPERATURES BEFORE IT IS APPLIED. MATERIAL THAT DOES NOT MEET REQUIRED TEMPERATURE REQUIREMENTS WILL BE WARMED TO THE MINIMUM TEMPERATURE FOR 24 HOURS BEFORE IT IS APPLIED OR AS APPROVED BY THE RESIDENT ENGINEER.
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- PLEASE FIND CONTINUED PAVEMENT MARKING GENERAL NOTES ON PAVEMENT MARKING DETAIL SHEET C721.



ISSUED FOR BID



GREGORY S. MOORE PE NO. 157775 06/05/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
	3	G.S.M.	06/05/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING PLAN
STA. 1005+50 TO STA. 1002+44.29
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

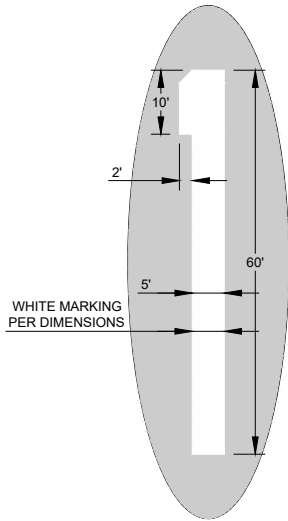
C707

SHEET NO.

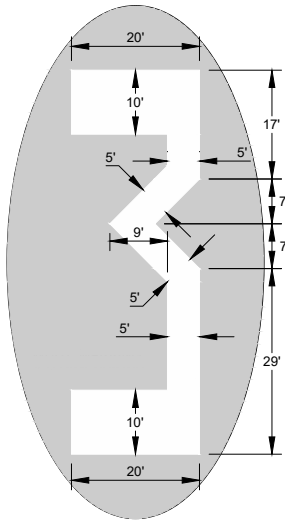
89 of 109

GENERAL MARKING NOTES (CONTINUED)

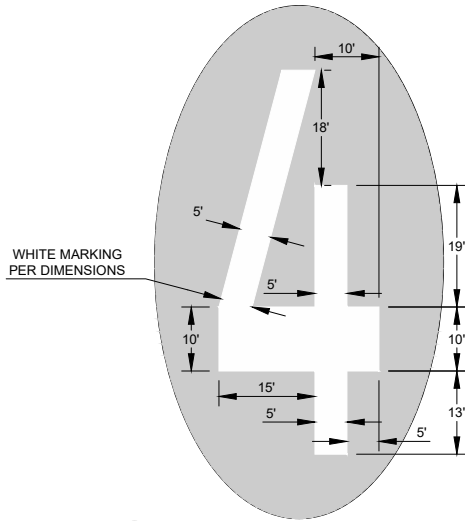
12. FINAL PAINT LAYOUT WILL BE CONFIRMED BY THE AIRPORT PRIOR TO CONSTRUCTION.
13. CONTRACTOR SHALL HAVE A COPY OF THE CURRENT FAA ADVISORY CIRCULAR AC 150/5340-1 (CURRENT VERSION) "STANDARDS FOR AIRPORT MARKINGS" ON SITE AT ALL TIMES. ANY DISCREPANCY BETWEEN INFORMATION SHOWN ON THE PLAN SHEETS AND THE ADVISORY CIRCULAR SHALL BE COORDINATED WITH THE ENGINEER FOR DIRECTION.
14. MEASUREMENT OF PAVEMENT MARKINGS FOR PAYMENT WILL BE MADE IN THEIR FINAL POSITION AND TO NEAT LINE PLAN QUANTITY. FOR INSTANCE, IF THE CONTRACTOR ELECTS TO APPLY BLACK BORDERS UNDERNEATH THE YELLOW RUNWAY HOLDING POSITION MARKINGS, THE BLACK PAINT UNDERNEATH THE YELLOW HOLDING POSITION MARKINGS WILL NOT BE MEASURED FOR PAYMENT. IF THE CONTRACTOR ELECTS THIS METHOD OF MARKING APPLICATION, THEY DO SO AT THEIR OWN COST.
15. MARKINGS APPLIED TO EXISTING PAVEMENTS SHALL RECEIVE A 6" BLACK BORDER. BLACK BORDERS ARE NOT REQUIRED WHERE PAVEMENT MARKINGS ARE APPLIED TO NEW ASPHALT PAVEMENT.



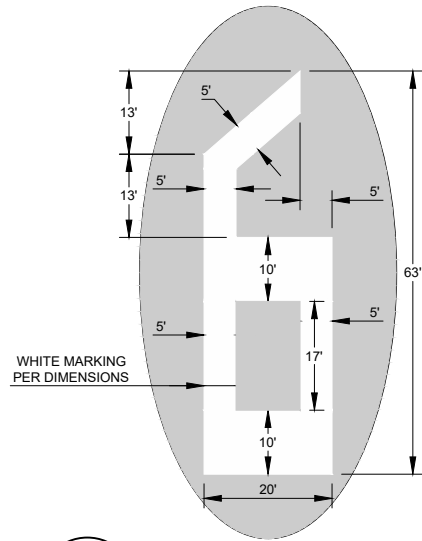
1 DESIGNATION "1" DETAIL
DETAIL SCALE: 1" = 30'



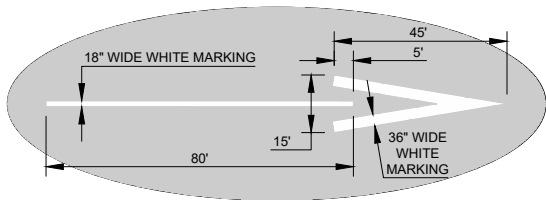
2 DESIGNATION "3" DETAIL
DETAIL SCALE: 1" = 30'



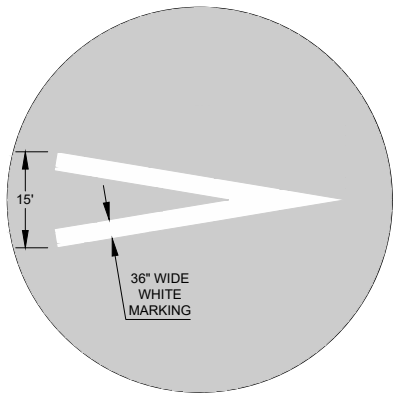
3 DESIGNATION "4" DETAIL
DETAIL SCALE: 1" = 30'



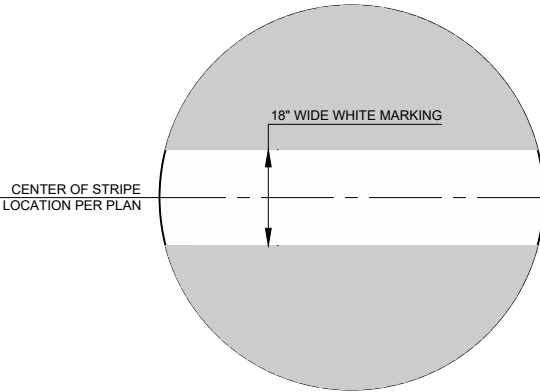
4 DESIGNATION "6" DETAIL
DETAIL SCALE: 1" = 30'



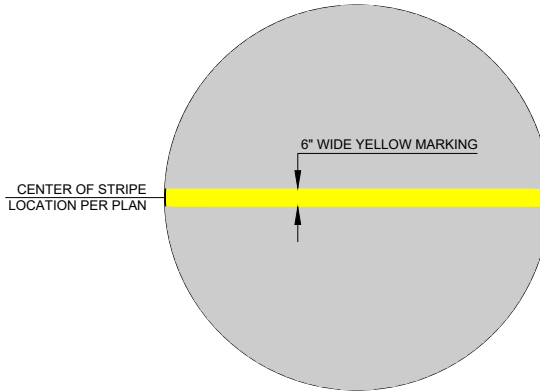
5 RUNWAY ARROWHEAD & TAIL DETAIL
NOT TO SCALE



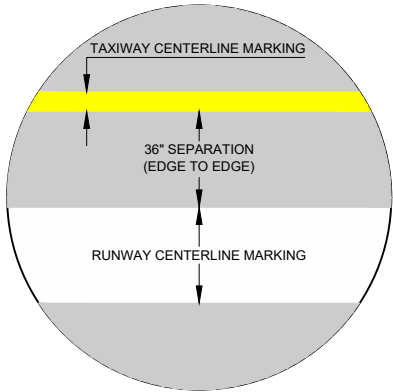
6 RUNWAY ARROWHEAD DETAIL
NOT TO SCALE



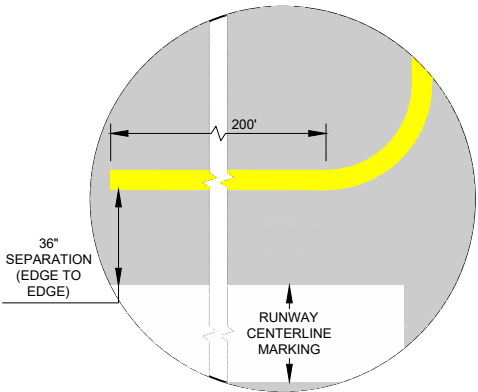
7 RUNWAY CENTERLINE DETAIL
NOT TO SCALE



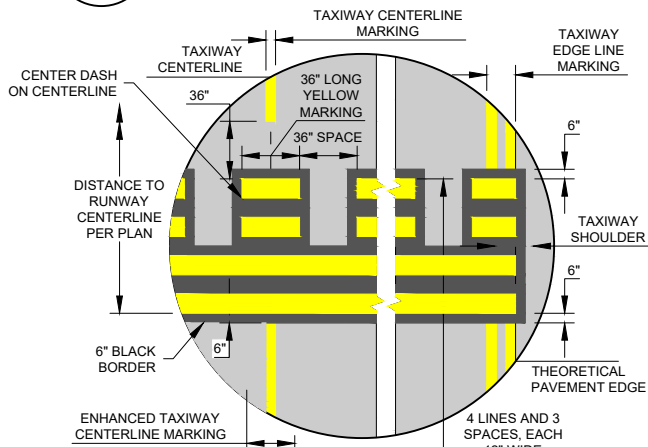
8 TAXIWAY CENTERLINE DETAIL
NOT TO SCALE



9 PARALLEL RUNWAY & TAXIWAY
CENTERLINE SEPARATION DETAIL
NOT TO SCALE



10 TAXIWAY LEAD IN LINE DETAIL
NOT TO SCALE



11 RUNWAY HOLDING POSITION DETAIL
NOT TO SCALE

ISSUED FOR BID

STATE OF TEXAS
GREGORY S. MOORE
157775
LICENSED
PROFESSIONAL ENGINEER

5/15/2026

GREGORY S. MOORE PE NO. 157775 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

PAVEMENT MARKING DETAILS

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

C721

SHEET NO.

92 of 109

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MASTER ELECTRICAL LEGEND				
	EXISTING	NEW	DEMOLITION	ADJUST
L-850C R/W EDGE IN PAVEMENT LIGHT				—
L-861 R/W EDGE ELEVATED LIGHT				—
L-861E R/W END ELEVATED LIGHT				—
L-852G R/W IN-PAVEMENT GUARD LIGHT	—		—	—
L-804 R/W ELEVATED GUARD LIGHT			—	—
R/W MALSR LIGHT				
L-861T T/W EDGE LIGHT				
L-853 RETRO-REFLECTIVE MARKER				—
L-853 RETRO-REFLECTIVE MARKER ON J-BOX	—		—	—
RUNWAY/TAXIWAY SIGN				—
L-867 JUNCTION BOX ③				
HAND HOLE			—	
ELECTRICAL MANHOLE	EMH	EMH	—	EMH
2" ELECTRICAL CONDUIT (DEB) ①	—		—	—
2" ELECTRICAL CONDUIT (CE) ①	—		—	—
2" ELECTRICAL CONDUIT (CLSM)	—		—	—
ELECTRICAL DUCT BANK (DEB) ②			—	—
ELECTRICAL DUCT BANK (CE) ②			—	—
L-824C CABLE (HASH MARKS INDICATE THE NUMBER OF CONDUCTORS)	②	③	—	—

ABBREVIATIONS LEGEND (NOT ALL ABBREVIATIONS ARE USED)					
A	-	AMP	OHT	-	OVERHEAD TELEPHONE
AFF	-	ABOVE FINISHED FLOOR	P	-	PHASE
AFG	-	ABOVE FINISHED GRADE	PAPI	-	PRECISION APPROACH PATH INDICATOR
ATS	-	AUTOMATIC TRANSFER SWITCH	PT	-	POINT OF TANGENCY
BC	-	BARE COPPER	PVC	-	POLYVINYL CHLORIDE CONDUIT
C	-	CONDUIT	REIL	-	RUNWAY END INDICATOR LIGHT
CCR	-	CONSTANT CURRENT REGULATOR	RGL	-	RUNWAY GUARD LIGHT
CE	-	CONCRETE ENCASED	RGS	-	RIGID GALVANIZED STEEL CONDUIT
CKT.	-	CIRCUIT	RE	-	REFER TO
CLSM	-	CONTROLLED LOW STRENGTH MATERIAL	RW	-	RUNWAY
COMM.	-	COMMUNICATION	S	-	SEWER
CONC.	-	CONCRETE	SCHD.	-	SCHEDULE
DEB	-	DIRECT EARTH BURIED	SHT.	-	SHEET
ELEC.	-	ELECTRIC/ELECTRICAL	STA.	-	STATION
EXIST., EX.	-	EXISTING	TDZ	-	TOUCH DOWN ZONE
FAA	-	FEDERAL AVIATION ADMINISTRATION	TW	-	TAXIWAY
F.O.	-	FIBER OPTIC	TYP	-	TYPICAL
GFI	-	GROUND FAULT INTERRUPTING	UE, UGE	-	UNDERGROUND ELECTRICAL
GND., G	-	GROUND	U.G.	-	UNDERGROUND
HDPE	-	HIGH-DENSITY POLYETHYLENE	UON	-	UNLESS OTHERWISE NOTED
kV	-	KILOVOLTS	UT	-	UNDERGROUND TELEPHONE
kW	-	KILOWATTS	V	-	VOLT
MALSR	-	MEDIUM INTENSITY APPROACH LIGHT SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS	VA	-	VOLT AMP
MH.	-	MANHOLE	W	-	WATT, WIRE
N.I.C.	-	NOT IN CONTRACT	W/	-	WITH
NO.	-	NUMBER	WP	-	WEATHERPROOF
OHP	-	OVERHEAD POWER	XFMR	-	TRANSFORMER

CIRCUIT LEGEND	
	RUNWAY EDGE LIGHTS
	RUNWAY 18R PAPI
	RUNWAY 36L PAPI

R/W LIGHT KEY
C - WHITE
Y - YELLOW
G - GREEN
R - RED

LEGEND NOTES:

- ① ALL ELECTRICAL CONDUITS ARE 1-2" SCH. 40 PVC CONDUIT UNLESS IDENTIFIED OTHERWISE.
- ② SIZE AND NUMBER OF CONDUITS IN A DUCT BANK ARE AS INDICATED ON PLAN SHEETS.
- ③ ALL L-867 JUNCTION BOXES ARE SIZE B, 12" DIA. X 24" DEEP WITH 3/8" THICK BLANK COVER, UNLESS OTHERWISE INDICATED.

PROJECT SPECIFIC DEMOLITION NOTES

1. ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL NOT BE DAMAGED BY THE CONTRACTOR. ANY DAMAGE TO THESE COMPONENTS WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR.
2. THE CONTRACTOR SHALL REMOVE ALL WIRES AND CABLES FROM CONDUITS WHICH ARE TO BE ABANDONED. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF WIRES AND CABLES.

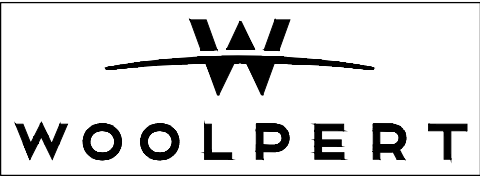
ELECTRICAL NOTES

1. THE PROJECT PAY ITEMS PROVIDED ARE TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT, AND IS TO BE INCIDENTAL TO THE COST OF PROJECT PAY ITEMS PROVIDED.
2. WHENEVER, IN THE CONTRACT DOCUMENTS, THE WORDS "PROVIDE", "INSTALL", "FURNISH AND INSTALL", OR SIMILAR WORDS ARE USED, IT SHALL BE UNDERSTOOD THAT THE INTENT OF THE CONTRACT DOCUMENT IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION IN EVERY DETAIL THE WORK DESCRIBED. IT IS FURTHER INTENDED THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, TESTING, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS (PLANS), SPECIFICATIONS, AND TERMS OF THE CONTRACT.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, ETC., PRIOR TO COMMENCEMENT OF WORK. THE COST OF PERMITS, LICENSES, ETC. SHALL BE INCIDENTAL TO, AND INCLUDED IN THE BID PRICE FOR THE RESPECTIVE PAY ITEMS.
4. ALL DAMAGE TO UTILITIES OR EXISTING STRUCTURES FROM CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPORTED TO THE RESIDENT PROJECT REPRESENTATIVE. THE RESIDENT PROJECT REPRESENTATIVE SHALL DETERMINE WHETHER REPAIR OR REPLACEMENT IS NECESSARY. ALL REPAIR METHODS SHALL BE SUBMITTED TO THE RESIDENT PROJECT REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INITIATING THE WORK.
5. IN NEW OR EXISTING PAVEMENT ALL CONDUITS, DUCT BANKS, BASE CANS, COUNTERPOISE, GROUND CONDUCTORS, ETC. SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE FINAL LIFT OF PAVEMENT.
6. AIRFIELD SIGNS PROVIDING DIRECTIONS TO CLOSED AREAS SHALL BE COVERED. ALL AREAS CLOSED TO AIRCRAFT SHALL NOT BE LIGHTED. ADEQUATE LIGHTING, IN THE OPINION OF THE RESIDENT PROJECT REPRESENTATIVE, SHALL BE PROVIDED TO DELINEATE THE ACTIVE AND CLOSED AREAS OF THE AOA. THE ABOVE ITEMS ARE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
7. ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL BE OPERATIONAL AT THE END OF EACH WORK SHIFT AND FOR EVERY PERIOD OF LOW VISIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY JUMPER AND OTHER EQUIPMENT NECESSARY TO MAINTAIN AN OPERATIONAL SYSTEM DURING CONSTRUCTION. TEMPORARY JUMPERS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS. ALL TEMPORARY JUMPERS SHALL BE INSTALLED IN CONDUIT.
8. CONTRACTOR SHALL BE REQUIRED TO PROVE TO THE SATISFACTION OF THE RESIDENT PROJECT REPRESENTATIVE THAT THE LIGHTING SYSTEM IS OPERATIONAL BEFORE LEAVING THE WORK SITE AFTER EVERY WORK SHIFT.
9. THE AIRPORT MAINTENANCE DEPARTMENT'S "LOCKOUT/TAGOUT" PROCEDURE AND NFPA 70E SHALL BE COMPLIED WITH BY THIS CONTRACTOR.
10. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
11. EXISTING CONDUIT, DUCT BANK, CIRCUITING, AND UTILITY INFORMATION IS BASED ON "AS-BUILT" AND "RECORD" DRAWINGS AND SITE VISITS BY THE ENGINEER. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY/AGENCY PRIOR TO STARTING WORK AND STAKE/MARK THE LOCATION OF ALL EXISTING UTILITIES. ANY INTERRUPTION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AIRPORT AND THE AUTHORITY, AGENCY, OR UTILITY HAVING JURISDICTION PRIOR TO STARTING WORK.
12. ALL REMOVED FIXTURES, BASEPLATES, SPACERS, SIGNS, TRANSFORMERS, ETC. SHALL BE TURNED OVER TO THE AIRPORT'S MAINTENANCE DEPARTMENT. ALL REMOVED CABLES, DUCT, BASECANS, CONCRETE PADS, MANHOLES, ETC. SHALL BE PROPERLY AND LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR. ALL ITEMS TO BE RELOCATED SHALL BE REMOVED FIRST AND PROPERLY STORED FOR FUTURE INSTALLATION.
13. PROVIDE WORK, EQUIPMENT AND MATERIALS THAT COMPLY WITH FAA REQUIREMENTS, NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES.
14. PROVIDE PROPER CONSTRUCTION WARNINGS AND BARRICADES PER FAA REQUIREMENTS, AND PRESENT PLANS FOR SAME TO ENGINEER AND AIRPORT OPERATIONS MANAGER FOR APPROVAL PRIOR TO COMMENCING WORK.
15. NOTIFY ENGINEER OF ANY SIGNIFICANT DIFFERENCES BETWEEN DRAWINGS AND FIELD CONDITIONS.
16. DAMAGE TO EXISTING EQUIPMENT NOT ASSOCIATED WITH DEMOLITION FOR THIS PROJECT TO BE REPAIRED AND OPERATIONAL AT CONTRACTOR'S EXPENSE.
17. LOCATION OF EXISTING UTILITIES AND STRUCTURES IS BASED ON THE BEST AVAILABLE INFORMATION AND IS NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UTILITIES ARE SHOWN.
18. WHERE NEW DUCT BANKS OR OTHER UTILITIES ARE NEAR EXISTING UTILITIES THE CONTRACTOR SHALL HAND EXCAVATE AROUND THE EXISTING UTILITIES IN ORDER TO PREVENT DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY UTILITY DAMAGED DURING CONSTRUCTION.
19. THE CONTRACTOR SHALL REMOVE ALL CONDUIT AND CONDUCTORS MARKED FOR REMOVAL ON DEMOLITION SHEETS. ALL ABANDONED/UNUSED CONDUCTORS SHALL BE REMOVED FROM EXISTING CONDUITS IN WHICH NEW CONDUCTORS ARE INSTALLED. NO ABANDONED CONDUCTORS SHALL BE LEFT IN PLACE AT THE COMPLETION OF THE JOB. NO PAYMENT WILL BE MADE FOR REMOVAL OF EXISTING CONDUCTORS. ALL REMOVED WIRE SHALL BE THE PROPERTY OF THE CONTRACTOR.
20. THE DIMENSION BETWEEN LIGHTS SHOWN ON A RADIUS IS DEFINED AS THE CHORD LENGTH. LOCATIONS SHOWN ARE TO THE CENTER OF THE LIGHTING FIXTURE.
21. CONTRACTOR TO FIELD VERIFY ALL ELEVATION ADJUSTMENTS PRIOR TO ORDERING EXTENSION RINGS OR EXCAVATING ELECTRICAL STRUCTURES.
22. AT LOCATIONS WHERE NEW RUNWAY LIGHTS, TAXIWAY LIGHTS, SIGNS, OR CONDUIT ARE TO BE INSTALLED IN EXISTING PAVEMENT THE CONTRACTOR SHALL NEATLY SAWCUT, REMOVE, AND PATCH EXISTING PAVEMENT AS NECESSARY TO ALLOW THE INSTALLATION OF THE NEW EQUIPMENT. PAVEMENT REMOVAL AND PATCHING SHALL BE CONSIDERED INCIDENTAL TO INSTALLATION OF THE NEW EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR PAVEMENT REMOVAL AND PATCHING.
23. THE CONTRACTOR SHALL KEEP A SET OF AS-BUILT DRAWINGS THAT SHALL BE SUBMITTED TO THE ENGINEER AT THE COMPLETION OF THE JOB. THE CONTRACTOR SHALL NOTE, AND BRING TO THE ENGINEER'S ATTENTION, ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS. REDLINES AND SURVEY AUTOCAD AS-BUILTS SHALL BE PROVIDED UPON COMPLETION.
24. THE ELECTRICAL CONTRACTOR SHALL ATTEND THE CONSTRUCTION MEETINGS FOR THE DURATION OF THE PROJECT.
25. ALL ELECTRICAL WORK, INCLUDING CONDUITS, HANDHOLES, GROUNDING, POWER DISTRIBUTION EQUIPMENT, WIRING, JUNCTION BOXES, ETC., PERTAINING TO NAVIGATIONAL AIDS (LOCALIZER, LOCALIZER EQUIPMENT SHELTER, REILS, AND PAPI) SHALL BE CONSTRUCTED IN ACCORDANCE WITH FAA SPECIFICATIONS FAA-C-1217f, FAA-C-1391b, AND FAA-STD-019e IN ADDITION TO THE SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENTS.
26. THE CONTRACTOR SHALL MEASURE THE INSULATION RESISTANCE OF ALL AIRFIELD CIRCUITS PRIOR TO STARTING ANY ELECTRICAL WORK.
27. THE CONTRACTOR'S OPTION, NEW CONDUIT PROVIDED UNDER EXISTING PAVEMENT MAY BE INSTALLED BY DIRECTIONAL BORING IN LIEU OF CUTTING AN OPEN TRENCH AS DESCRIBED ABOVE. ALL CONDUIT INSTALLED BY DIRECTIONAL BORING SHALL BE SCHEDULE 40 HDPE. HDPE CONDUIT SHALL NOT BE USED OUTSIDE OF DIRECTIONAL BORING APPLICATIONS. ANY DAMAGE TO EXISTING PAVEMENT FROM BORING OPERATIONS (INCLUDING HEAVING) SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE SPONSOR, AND TO THE APPROVAL OF THE ENGINEER.
28. CONDUITS, ELECTRIC LINES, AND DUCT BANKS MARKED FOR REMOVAL ON UTILITY DEMOLITION SHEETS MAY BE ABANDONED IN PLACE IF THEY ARE NOT DISTURBED DURING CONSTRUCTION ACTIVITIES. ANY CONDUIT, ELECTRIC LINES, OR DUCT BANK ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED. NO PAYMENT SHALL BE MADE FOR REMOVAL OF CONDUITS, DUCT BANKS, AND ELECTRIC LINES.
29. THE CONTRACTOR SHALL REMOVE ALL ABANDONED/UNUSED CONDUCTORS AND CABLES FROM EXISTING CONDUITS IN WHICH NEW CONDUCTORS OR CABLES ARE INSTALLED. NO ABANDONED CONDUCTORS OR CABLES SHALL BE LEFT IN PLACE AT THE COMPLETION OF THE PROJECT. NO PAYMENT WILL BE MADE FOR REMOVAL OF EXISTING CONDUCTORS OR CABLES. ALL REMOVED CONDUCTORS AND CABLES SHALL BE THE PROPERTY OF THE CONTRACTOR.

ISSUED FOR BID

ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL LEGEND
AND NOTES

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

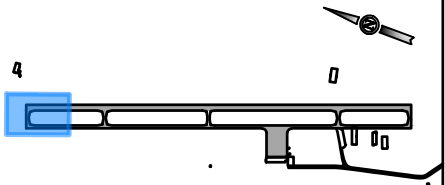
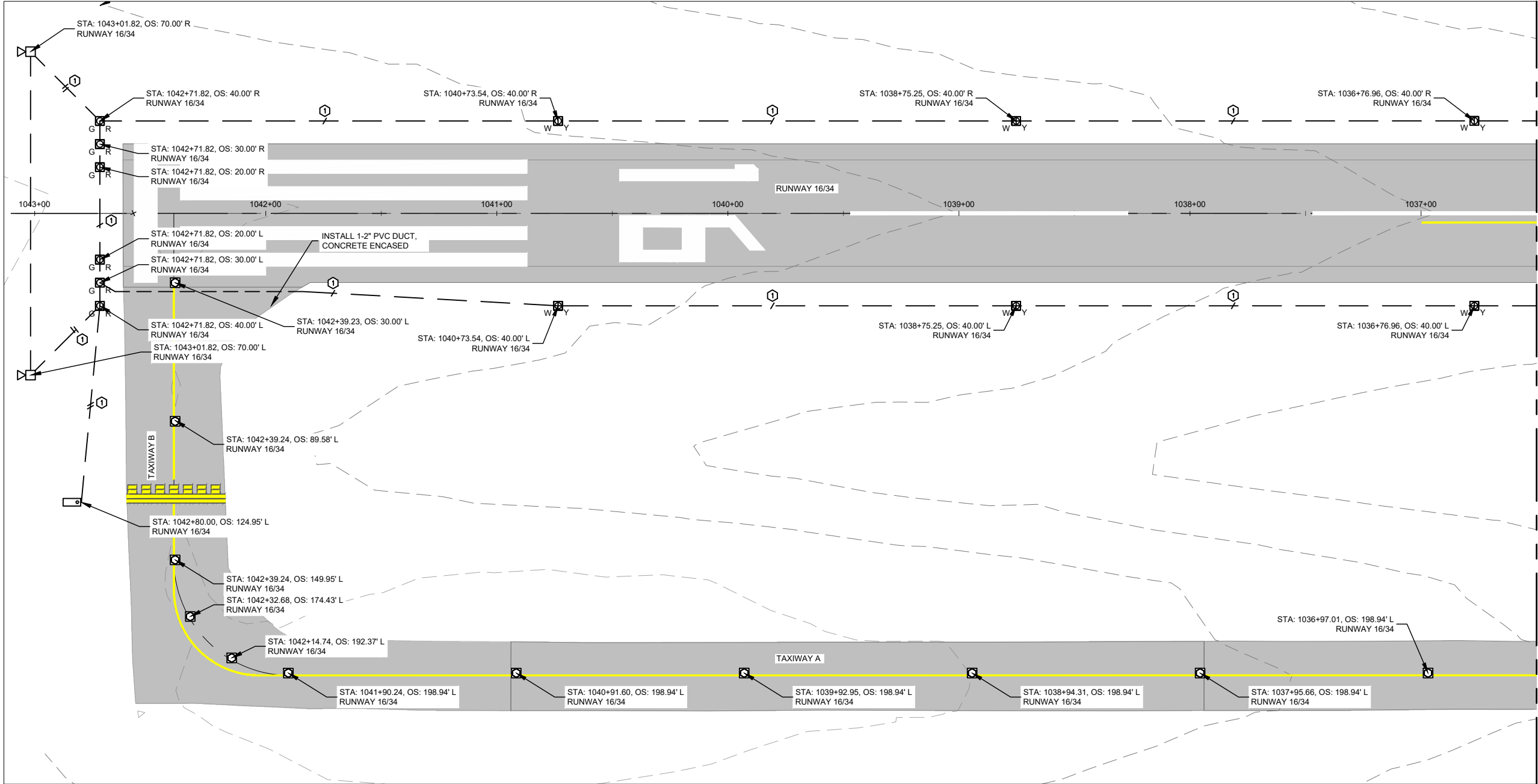
SHEET NAME

E001

SHEET NO.

93 of 109

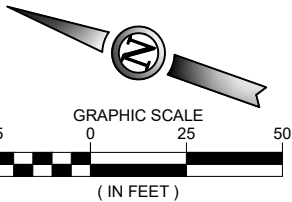
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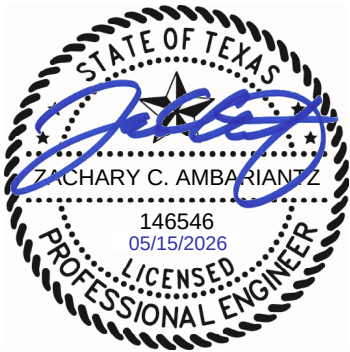
KEY MAP

GENERAL NOTES

1. CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G006 PROJECT LAYOUT AND SURVEY CONTROL PLAN.
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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL GEOMETRY
STA. 1043+00 TO STA. 1036+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

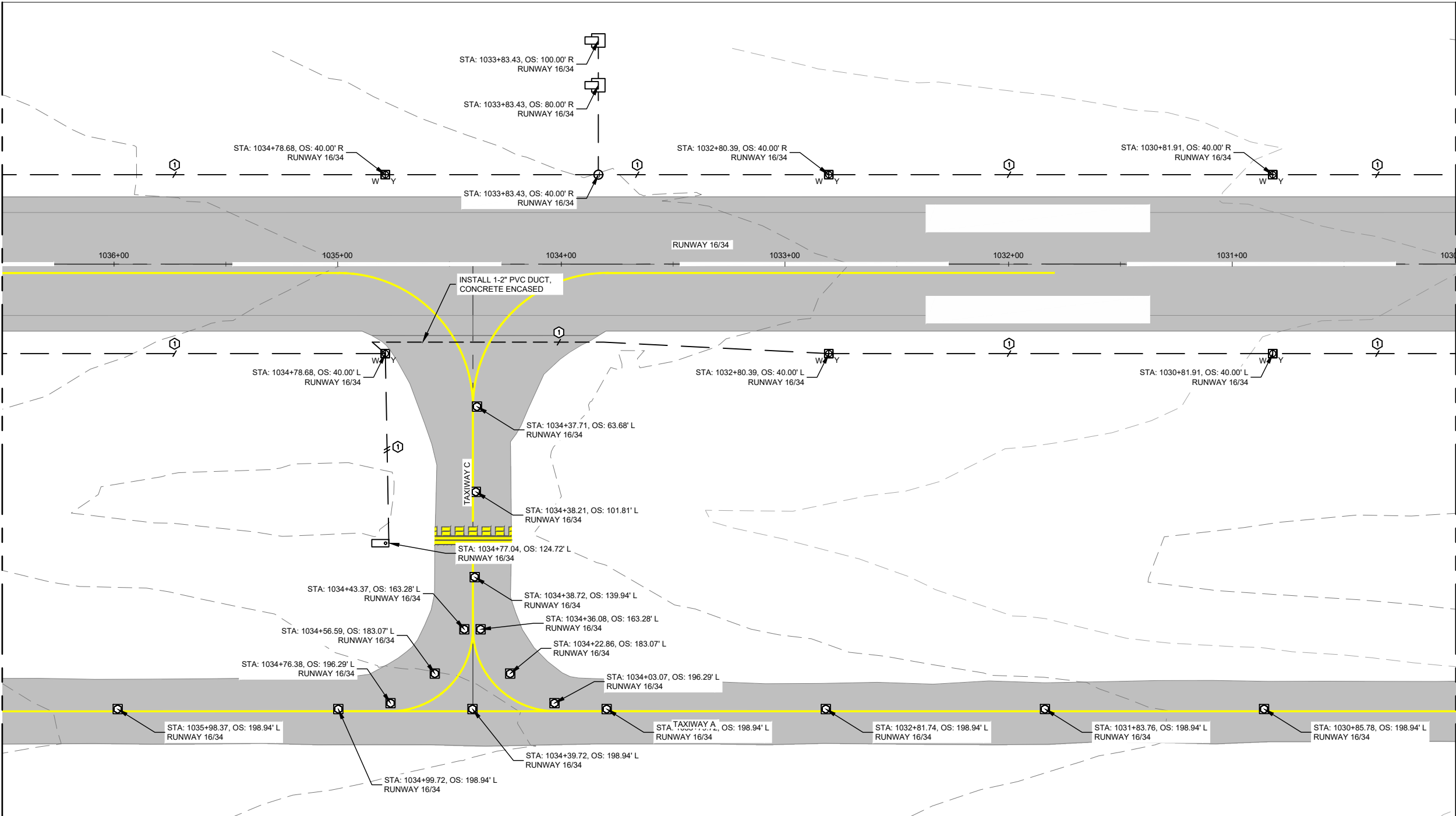
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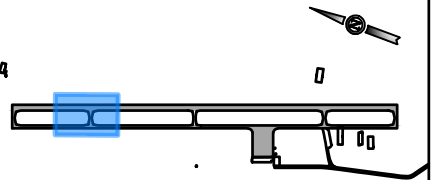
94 of 109

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C:\P12026 Runway Widening, Taxiway Extension, Airfield Electrical\F-CAD\PLANS\1036+50-F41-TXDOT-24-E20-ELEC-CMTY.dwg

MATCHLINE STA. 1036+50 - SEE SHEET E201



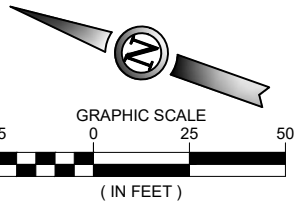
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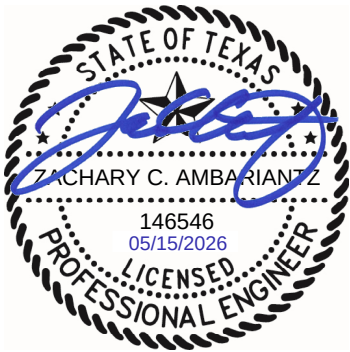
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ENNIS MUNICIPAL
AIRPORT

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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL GEOMETRY
STA. 1036+50 TO STA. 1030+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

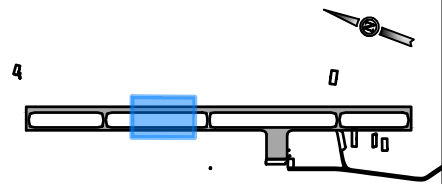
WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

E202

SHEET NO.

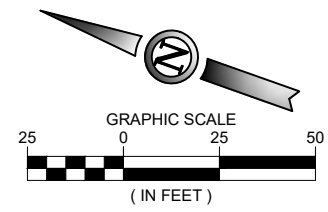
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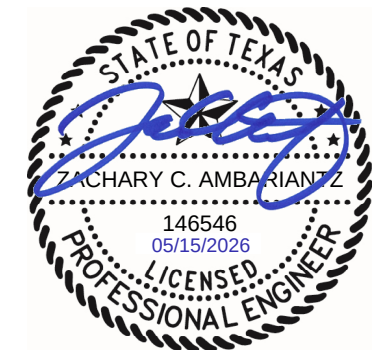
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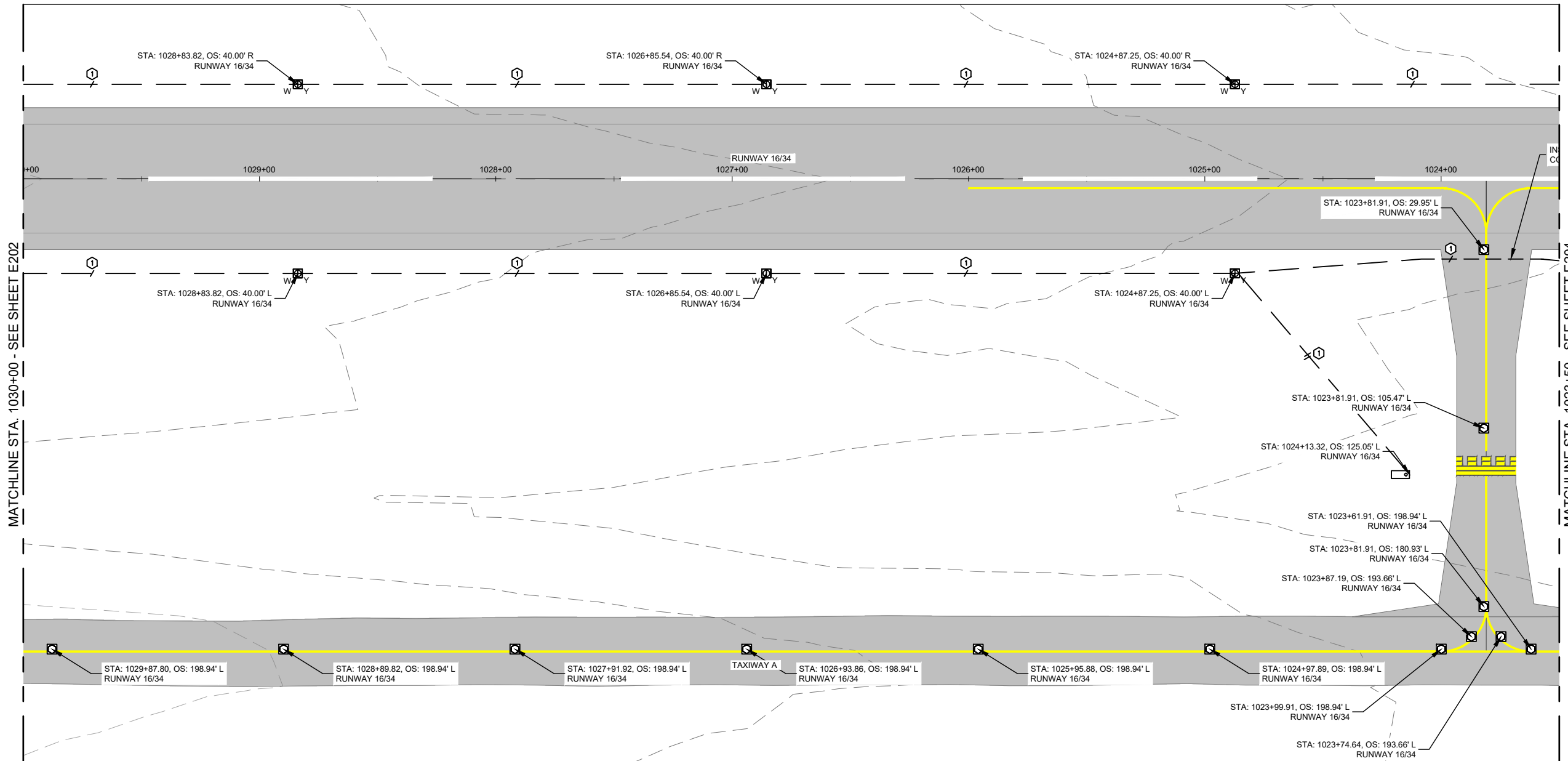


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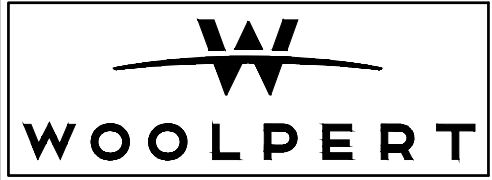


ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



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APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

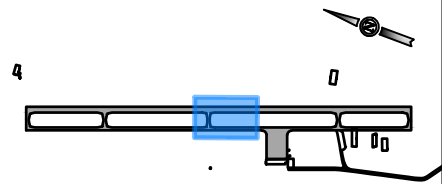
ELECTRICAL GEOMETRY
STA. 1030+00 TO STA. 1023+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
E203

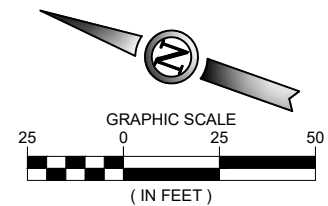
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96 of 109



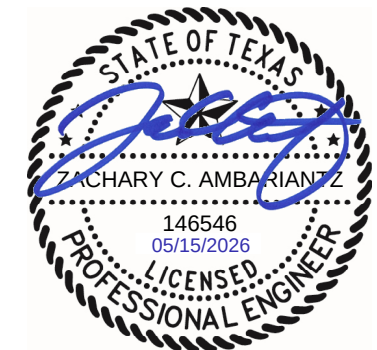
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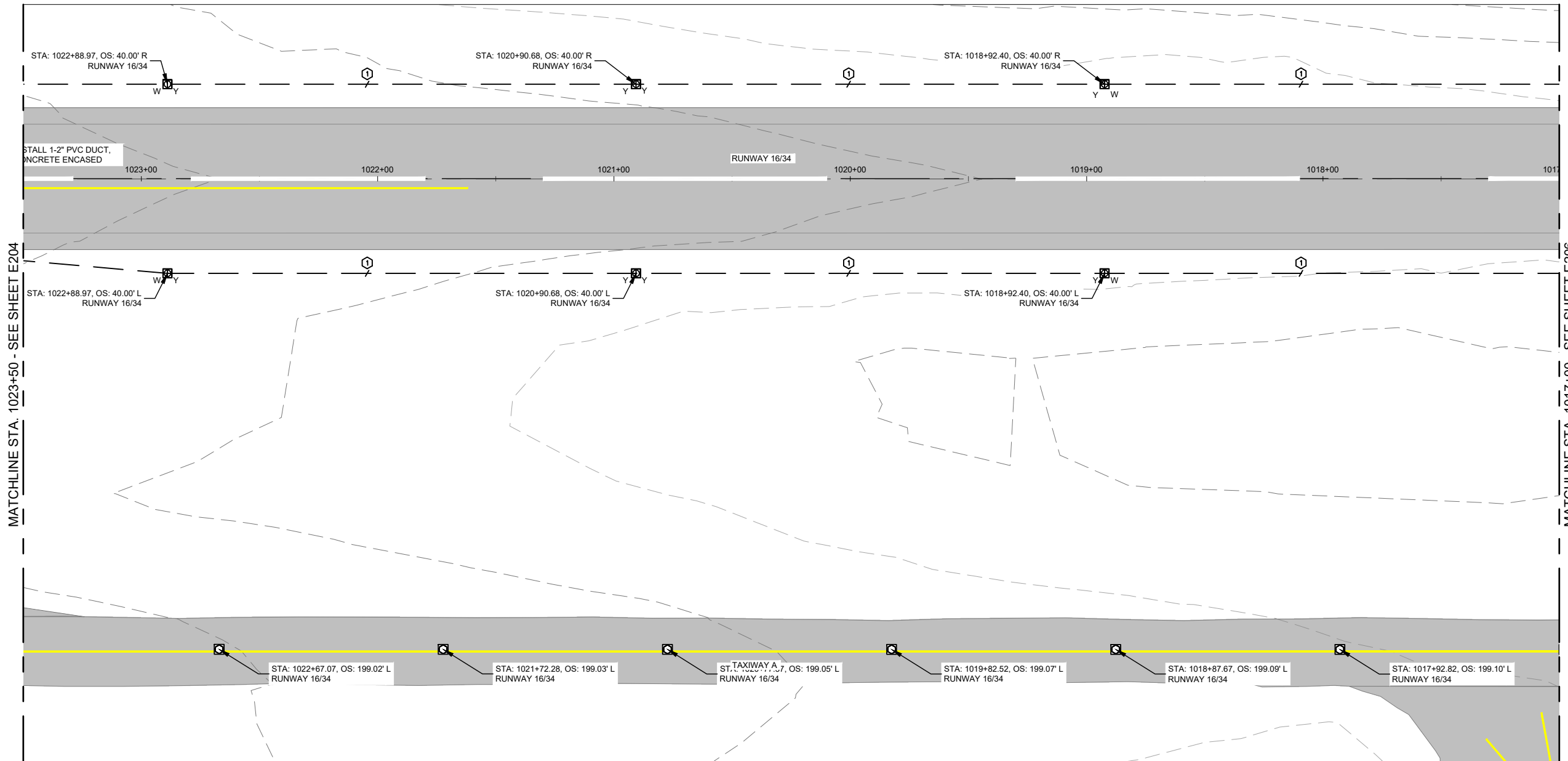


ISSUED FOR BID

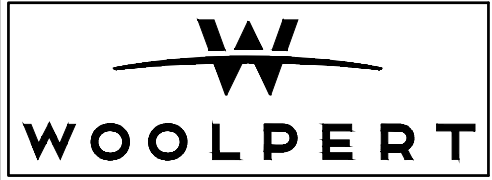


ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
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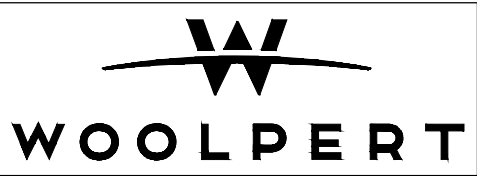
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL GEOMETRY
STA. 1023.50 TO STA. 1017+00
RUNWAY 16/34

STATE PROJ. NO. TXDOT CSJ NO.: 2618ENNIS
WOOLPERT PROJ. NO. 10022171.00.001.01

SHEET NAME
E204
SHEET NO.
97 of 109

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ENNIS MUNICIPAL
AIRPORT

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DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL GEOMETRY
STA. 1017+00 TO STA. 1010+50
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

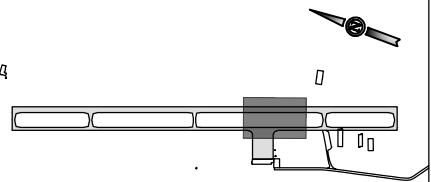
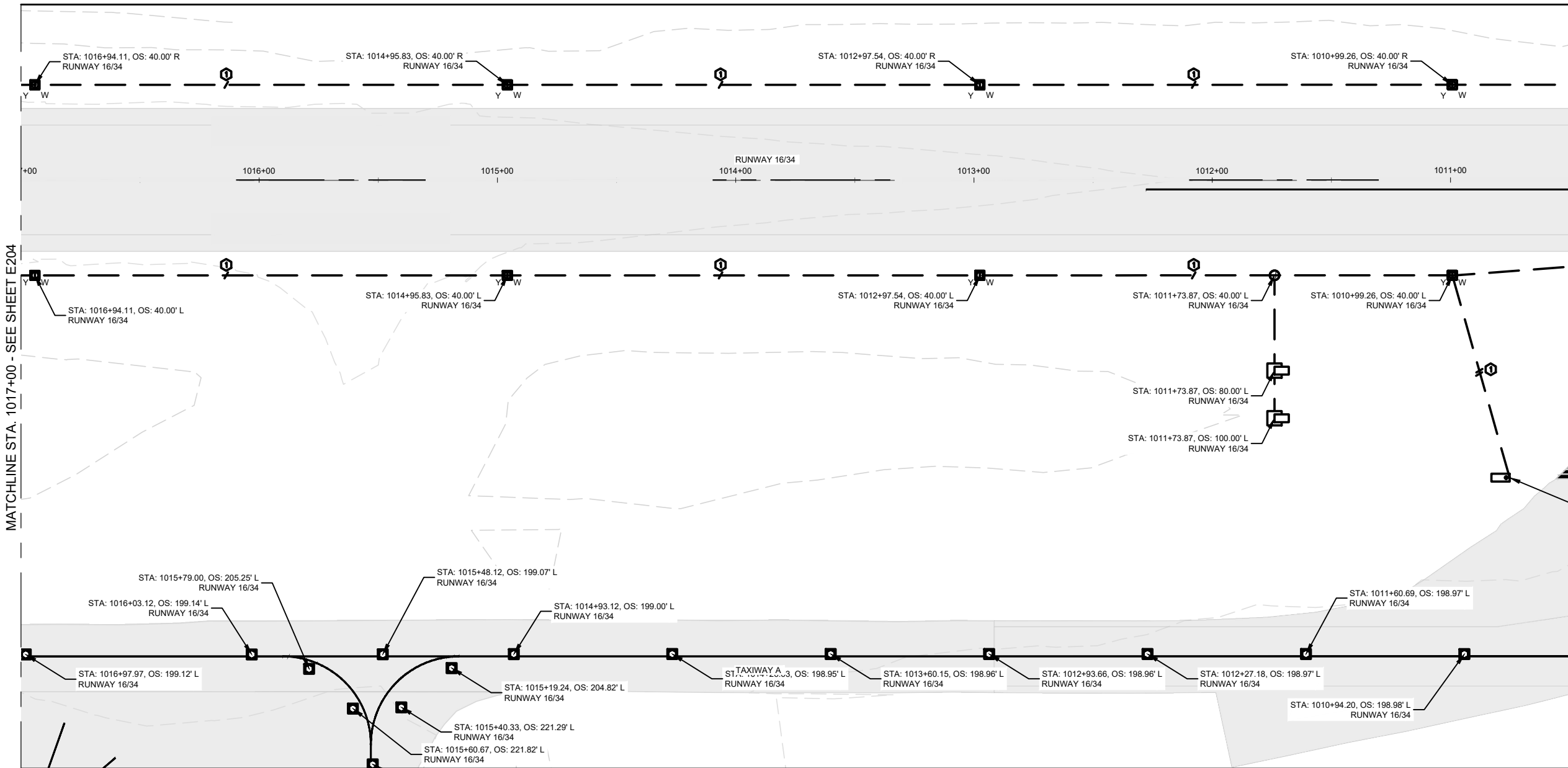
WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

E205

SHEET NO.

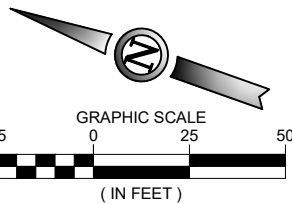
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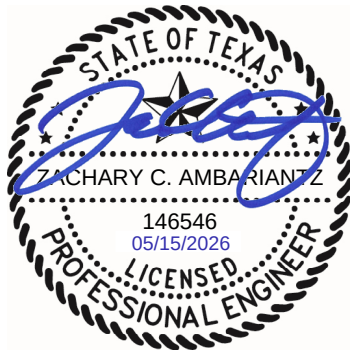
KEY MAP

GENERAL NOTES

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ISSUED FOR BID



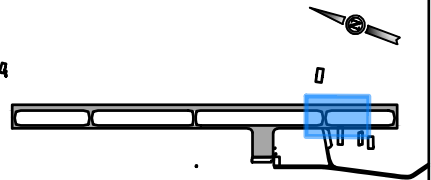
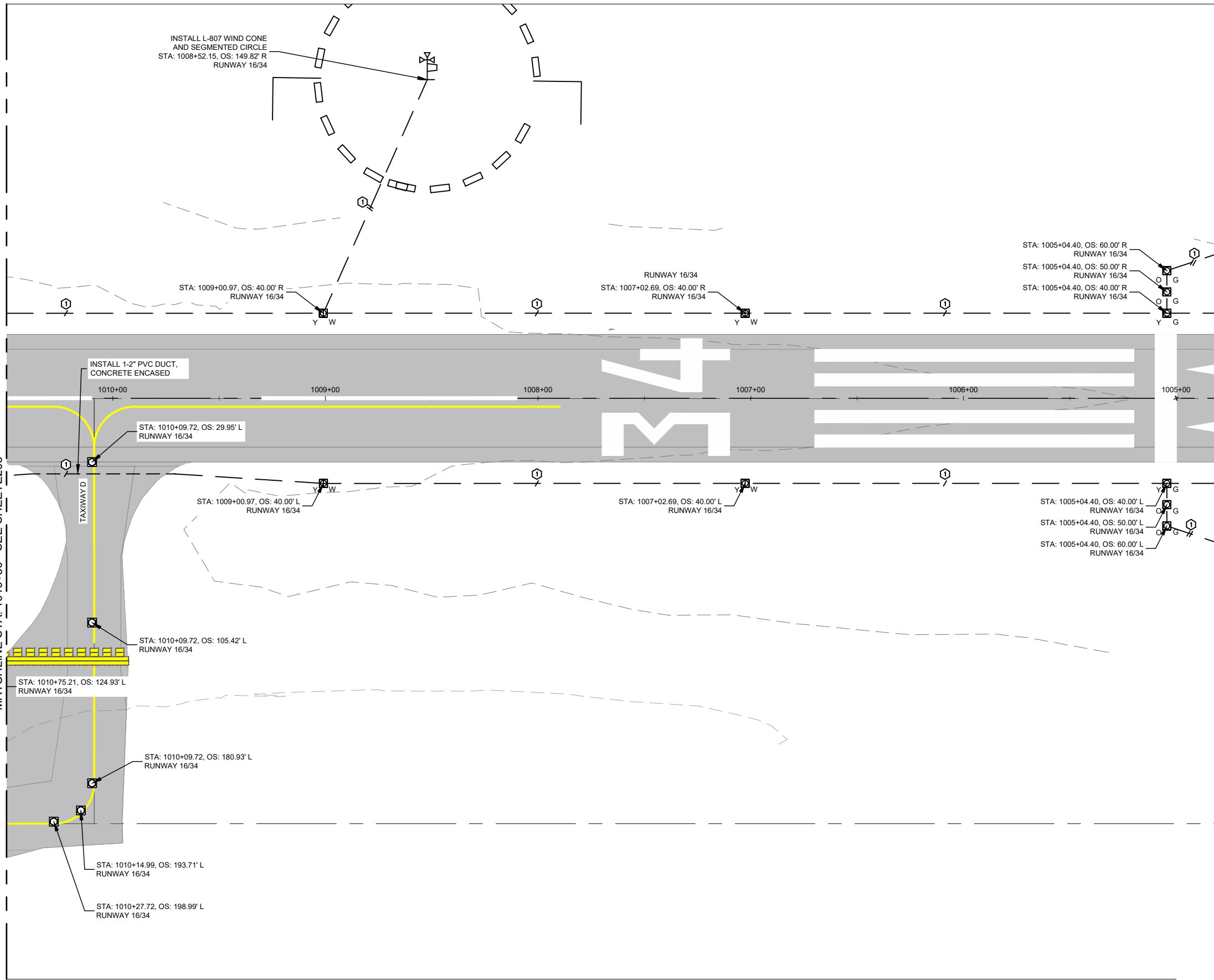
ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

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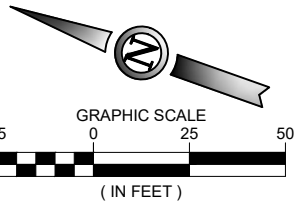
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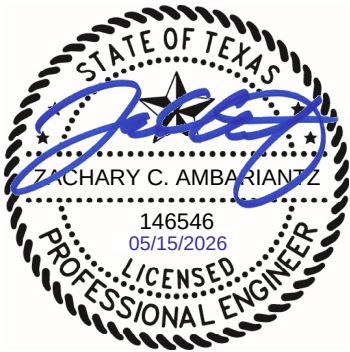
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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL GEOMETRY
STA. 1010+50 TO STA. 1005+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

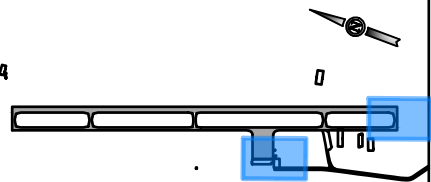
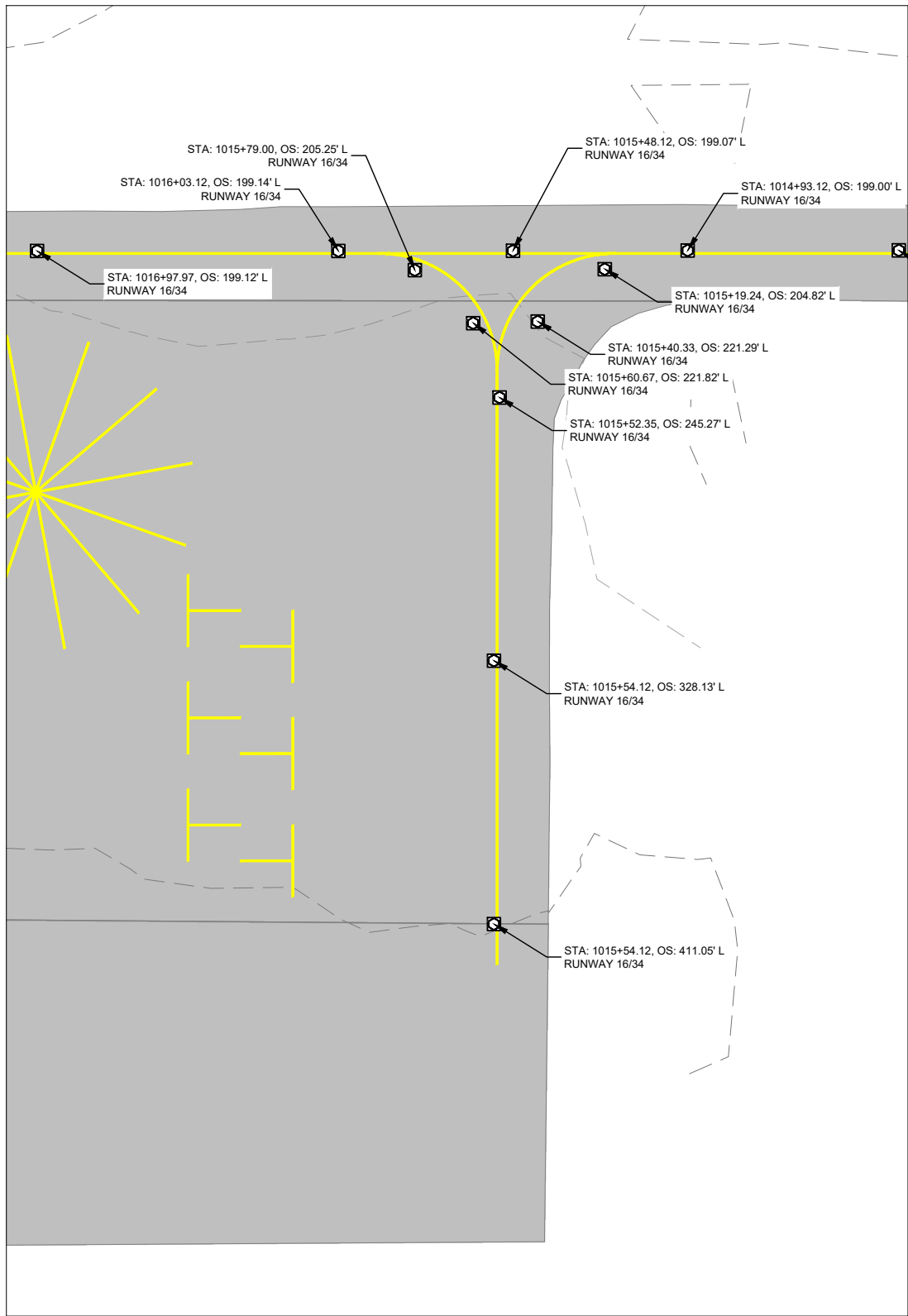
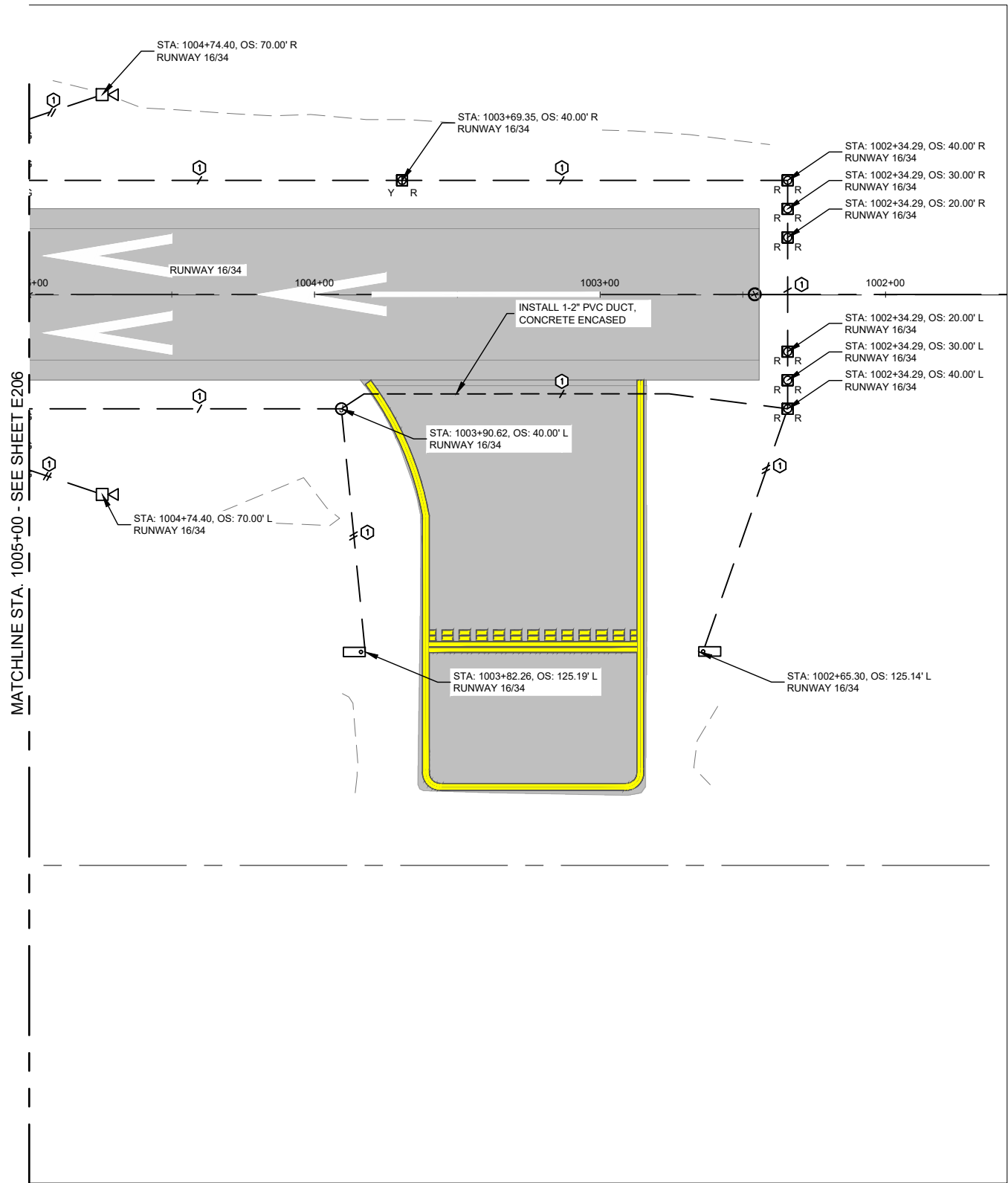
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E206

SHEET NO.

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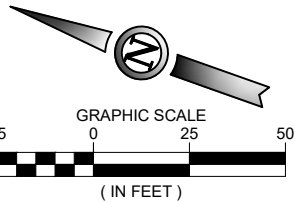
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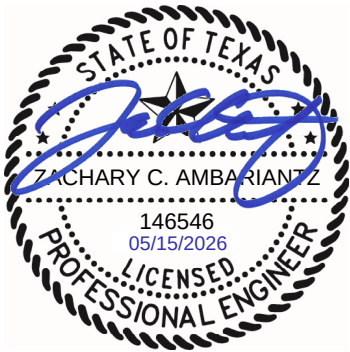
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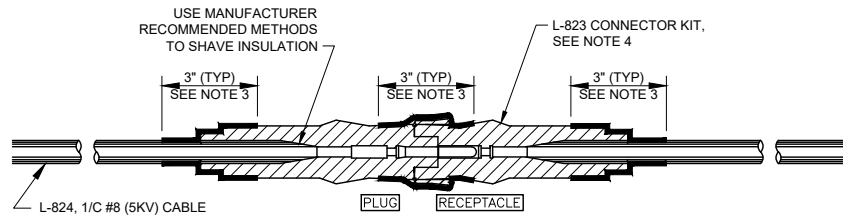
RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL GEOMETRY
STA. 1005+00 TO STA. 1002+00
RUNWAY 16/34

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

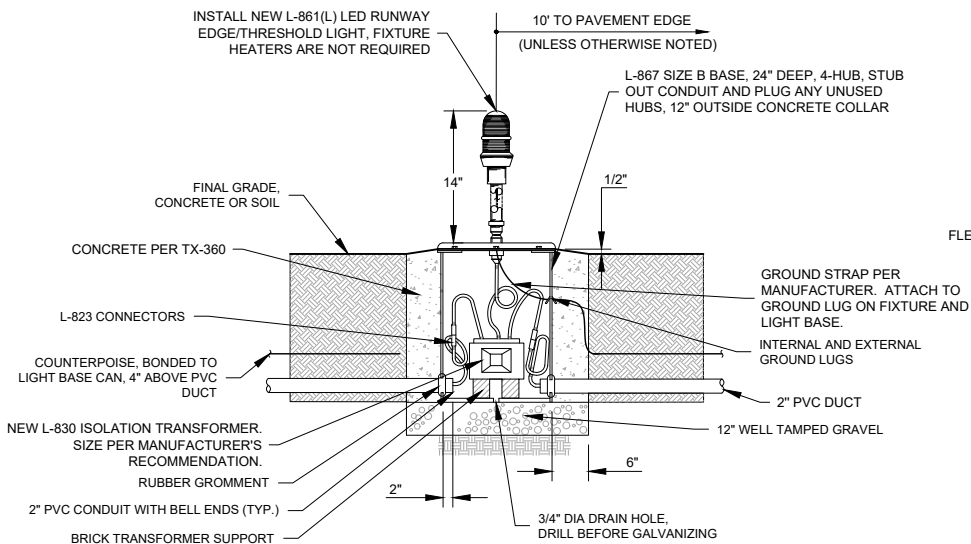
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E207
SHEET NO.
100 of 109



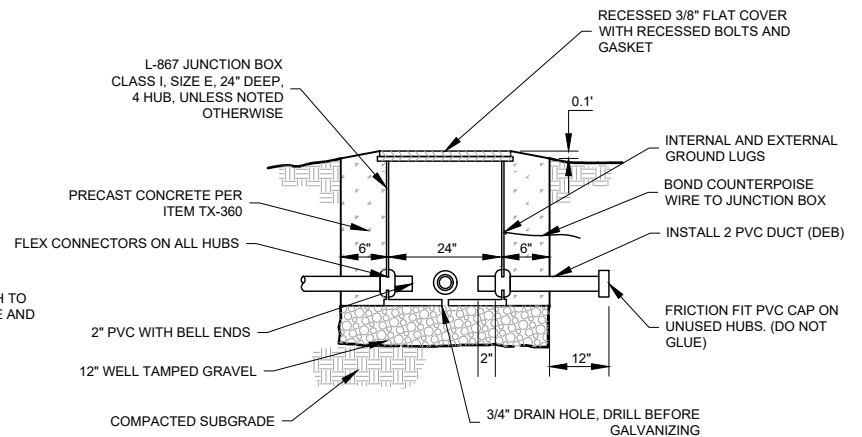
NOTES:

1. THE CABLE SHALL BE THOROUGHLY CLEANED PRIOR TO THE INSTALLATION OF THE L-823 CONNECTOR KIT.
2. INSTALLATION OF THE PIN/RECEPTACLE SHALL BE COMPLETED WITH "CRIMPING" TOOL SUPPLIED OR RECOMMENDED BY THE MANUFACTURER AND DESIGNED FOR THIS SPECIFIC PURPOSE.
3. ALL FIELD MADE JOINTS SHALL BE WRAPPED WITH 3" OF RUBBER TAPE AND HELD IN PLACE WITH VINYL TAPE, 1 1/2" ON EACH SIDE OF JOINT AND HALF LAPPED.
4. PROVIDE CONNECTOR KITS THAT INCLUDE AN INTEGRAL FLAP/BOOT TO SEAL THE JOINT BETWEEN THE PLUG AND RECEPTACLE. WRAP JOINT WITH VINYL TAPE.
5. CONTRACTOR SHALL REMOVE AMERACE CABLE SPREADER PRIOR TO INSTALLATION OF CABLE TO CONNECTOR.
6. SPLICE THE RETURN CONDUCTOR IF IN SAME CONDUIT WITH THE SUPPLY CONDUCTOR AT EVERY TENTH FIXTURE LOCATION. CONTRACTOR SHALL SPLICE ONLY WHEN REQUIRED. LOCATIONS OF RETURN SPLICE ARE TO BE AS-BUILT. RETURN CONDUCTOR SHALL PASS STRAIGHT THROUGH CANS (WITHOUT SLACK) AT LOCATIONS WHERE RETURN CONDUCTOR IS NOT SPLICED.

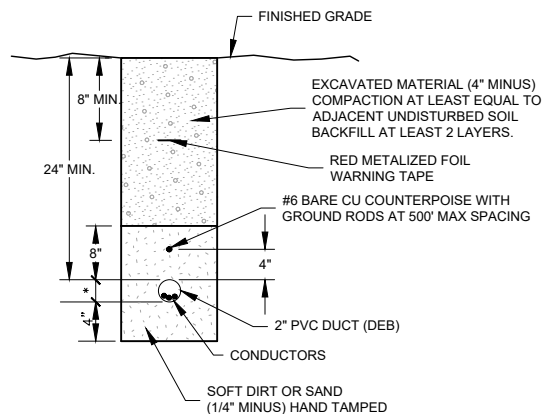
1 TYPICAL L-824 (5KV) CABLE CONNECTOR DETAIL
N.T.S.



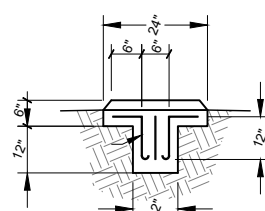
2 BASE MOUNTED RUNWAY/TAXIWAY LIGHT
N.T.S.



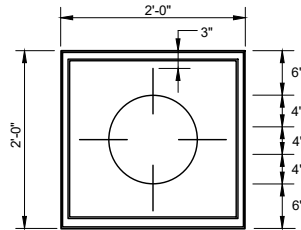
3 JUNCTION BOX DETAIL
N.T.S.



4 DUCT TRENCH (DEB) DETAIL
N.T.S.



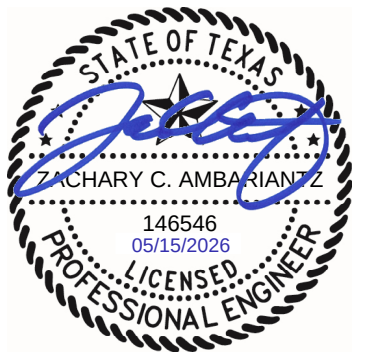
ELEVATION VIEW



TOP VIEW

5 DUCT MARKER DETAIL
N.T.S.

ISSUED FOR BID



ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

DES: A.D.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: J.K.W.	2	G.S.M.	5/15/2026	ISSUED FOR BIDDING
CH: C.L.G.				
APP: G.S.M.				

RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL DETAILS
AND NOTES

STATE PROJ. NO.
TXDOT CSJ NO.:2618ENNIS

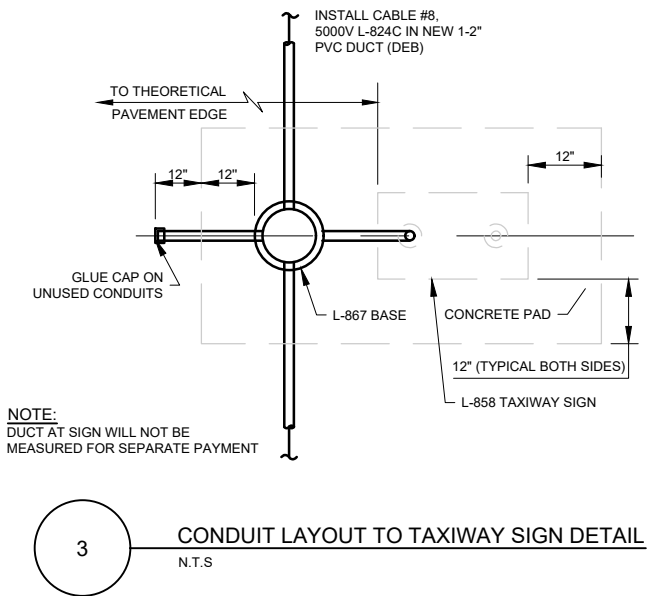
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10022171.00.001.01

SHEET NAME

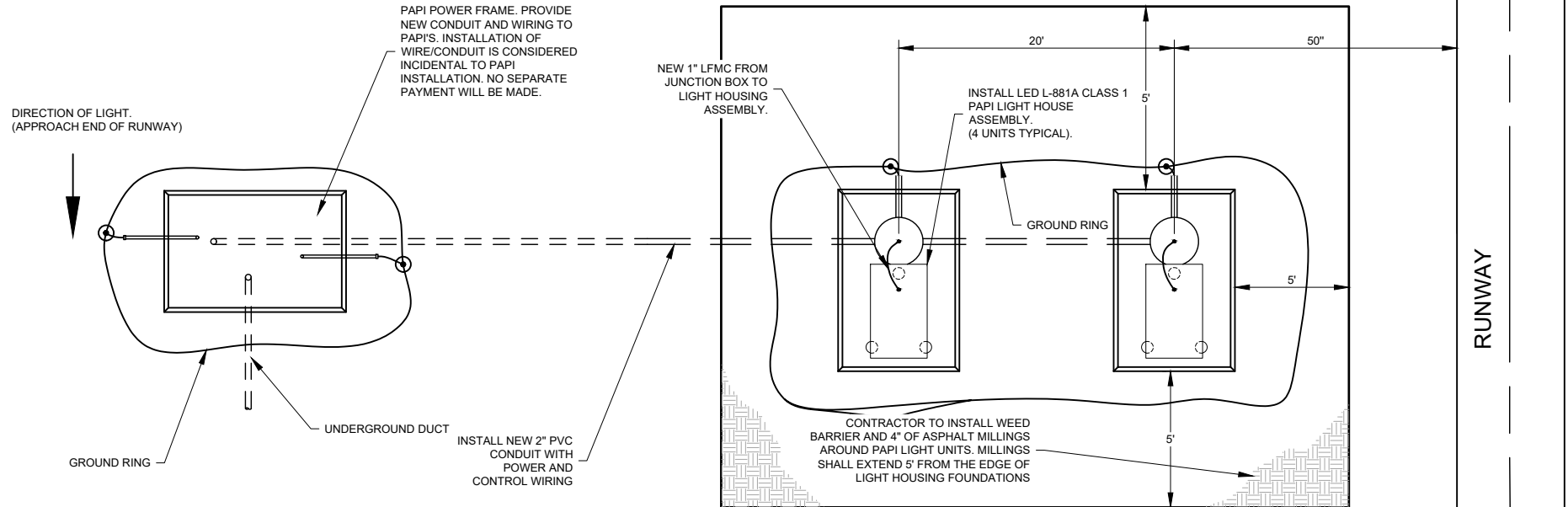
E250

SHEET NO.

101 of 109

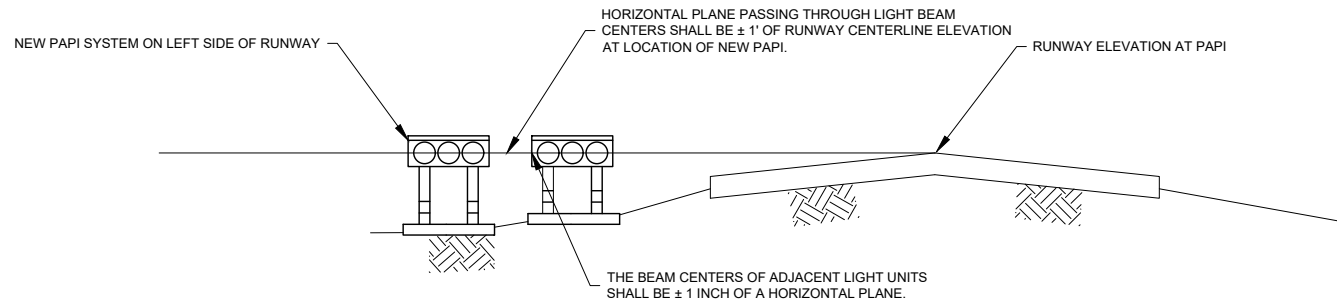


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1 PAPI LIGHT UNIT LAYOUT
N.T.S

- NOTE:
- CONTRACTOR SHALL INSTALL A COMPLETE PAPI SYSTEM, ALONG WITH THE PAPI UNITS AND FOUNDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL WIRING, CONDUIT, CONCRETE, POWER FRAME, TRANSFORMERS, DISCONNECT SWITCHES, CURRENT SENSING TRANSFORMER, ETC. WHICH SHALL BE CONSIDERED PART OF THE PAPI BID ITEM.
 - LED PAPI UNITS SHALL BE FURNISHED WITH BAFFLES THAT ARE PRE-INSTALLED AT THE FACTORY.
 - PAPI SHALL BE ON AT ALL TIMES DURING THE DAYTIME AND BE CURRENT SENSING THE RUNWAY CIRCUIT DURING THE NIGHT. INSTALLATION OF CONDUIT, WIRE AND ISOLATION TRANSFORMER FOR CURRENT SENSING CONTROL SHALL BE INCIDENTAL TO THE PAPI INSTALLATION ITEM.
 - CONTRACTOR SHALL BE ONSITE DURING FLIGHT CHECK. CONTRACTOR SHALL HAVE RADIO TO COMMUNICATE WITH FLIGHT CHECK PERSONNEL AND SHALL PERFORM ANY MODIFICATIONS TO THE PAPI OR REIL UNIT DURING THE FLIGHT CHECK INCLUDING LEVELING, ANGLE UPDATES AND SETTING BAFFLES IF NEEDED. WORK PERFORMED DURING THE FLIGHT CHECK SHALL BE INCLUDED IN THE PAPI/REIL BID ITEM.

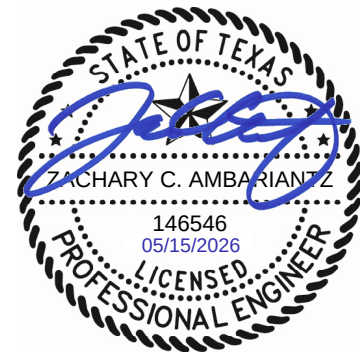


PAPI AIMING CRITERIA	
INBOARD PAPI (LHA #1)	LHA #2
3° 15' 0"	2° 45' 0"

2 PAPI ELEVATION DETAIL
N.T.S

VGSI DATA		
	RUNWAY 16	RUNWAY 34
DISTANCE FROM RRP TO RUNWAY THRESHOLD	873'	673'
VGSI GLIDEPATH ANGLE	3 DEGREES	3 DEGREES
ELEVATION AT RUNWAY THRESHOLD	500'	477'
ELEVATION AT RUNWAY CL AT RRP	493'	479'
THRESHOLD CROSSING HEIGHT	40'	40'

ISSUED FOR BID



ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL DETAILS
AND NOTES

STATE PROJ. NO.
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WOOLPERT PROJ. NO.
10022171.00.001.01

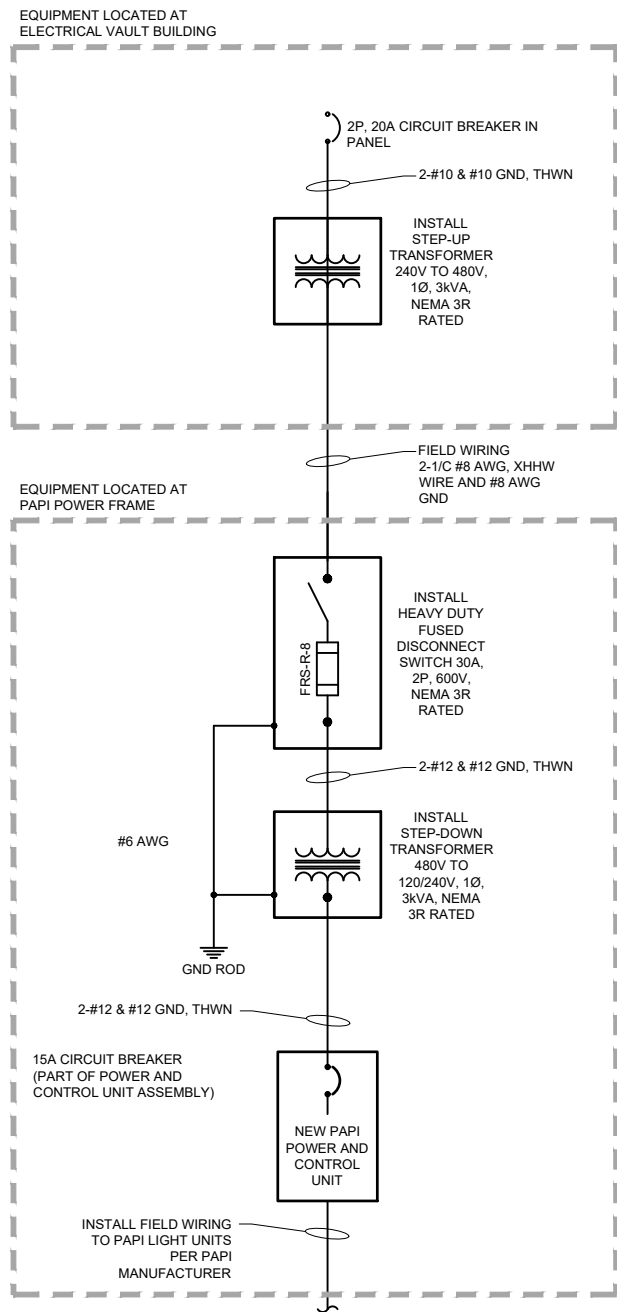
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E252

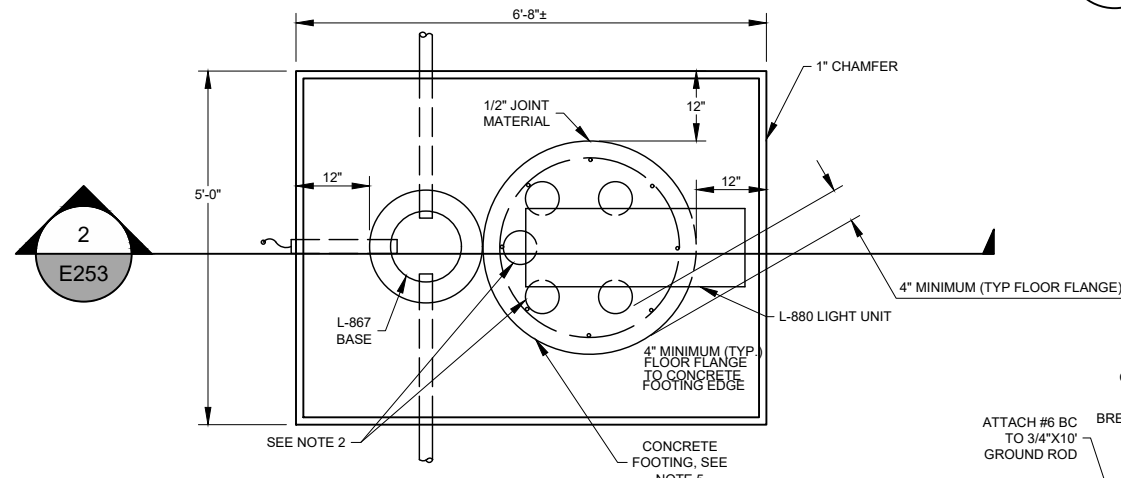
SHEET NO.

103 of 109

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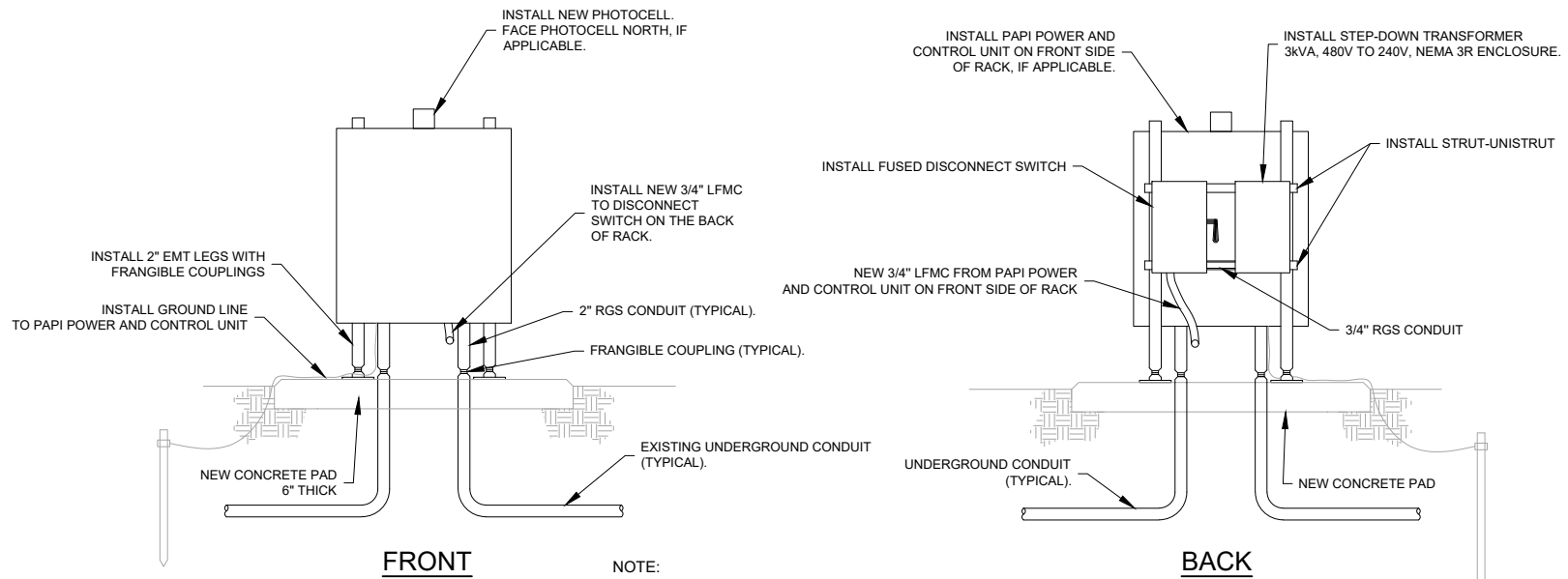


1 PAPI ONE-LINE DIAGRAM, RW 16 AND RW 34
N.T.S

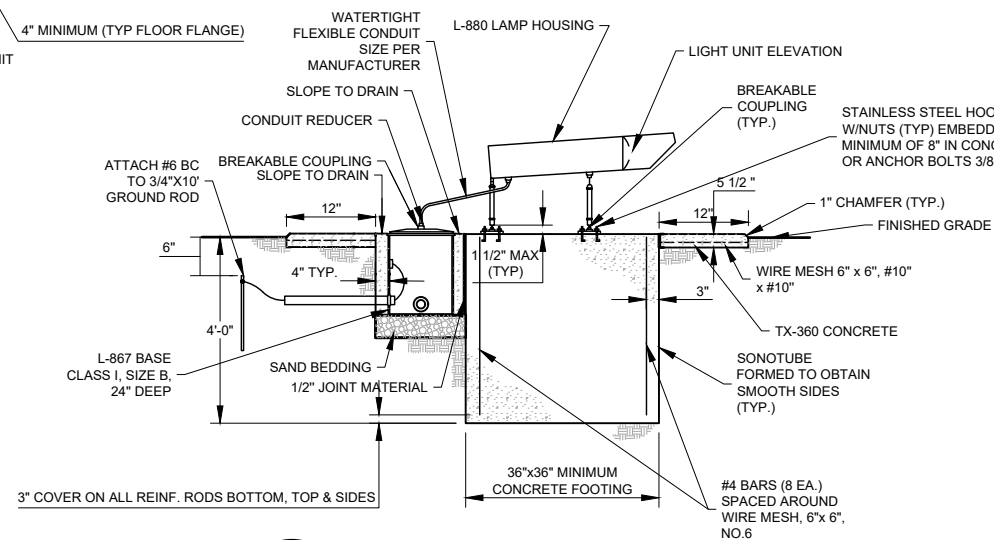


1 PLAN VIEW - PAPI LIGHT UNIT DETAIL
N.T.S

- NOTES:
1. PROVIDE FRANGIBLE MOUNTS FOR ALL LEGS OF LIGHT UNITS AND POWER ADAPTERS.
 2. NUMBER AND CONFIGURATION OF LEGS PER MANUFACTURER.
 3. INSTALL 90P/90R CONNECTORS FOR CABLES ENTERING/LEAVING THE POWER AND CONTROL UNIT AND THE LIGHT UNITS.
 4. GROUND EACH LAMP HOUSING AND POWER ADAPTER PER MANUFACTURER.
 5. CONTRACTOR MAY MAKE THE CONCRETE FOOTING ROUND OR SQUARE.
 6. APPLY "NEVER SEEZ" OR APPROVED EQUAL TO ALL THREAD BOLTS AND FRANGIBLE CONNECTIONS.
 7. SEE ITEM L-125 OF THE SPECIFICATIONS FOR INSTALLATION TOLERANCES.



3 PAPI POWER EQUIPMENT RACK DETAIL
N.T.S



2 SECTION VIEW - PAPI LIGHT UNIT DETAIL
N.T.S

ISSUED FOR BID

STATE OF TEXAS
ZACHARY C. AMBARIANTZ
146546
05/15/2026
LICENSED PROFESSIONAL ENGINEER

ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026
FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
AIRPORT

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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL DETAILS
AND NOTES

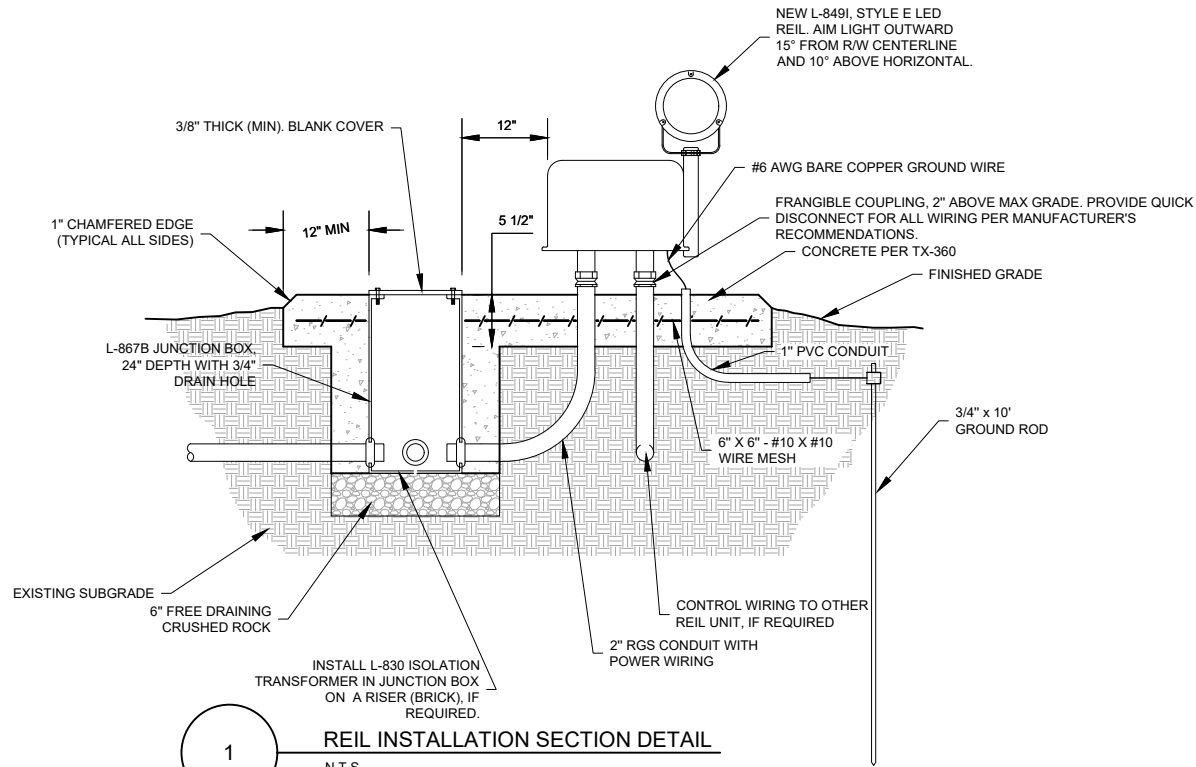
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TXDOT CSJ NO.: 2618ENNIS

WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME
E253

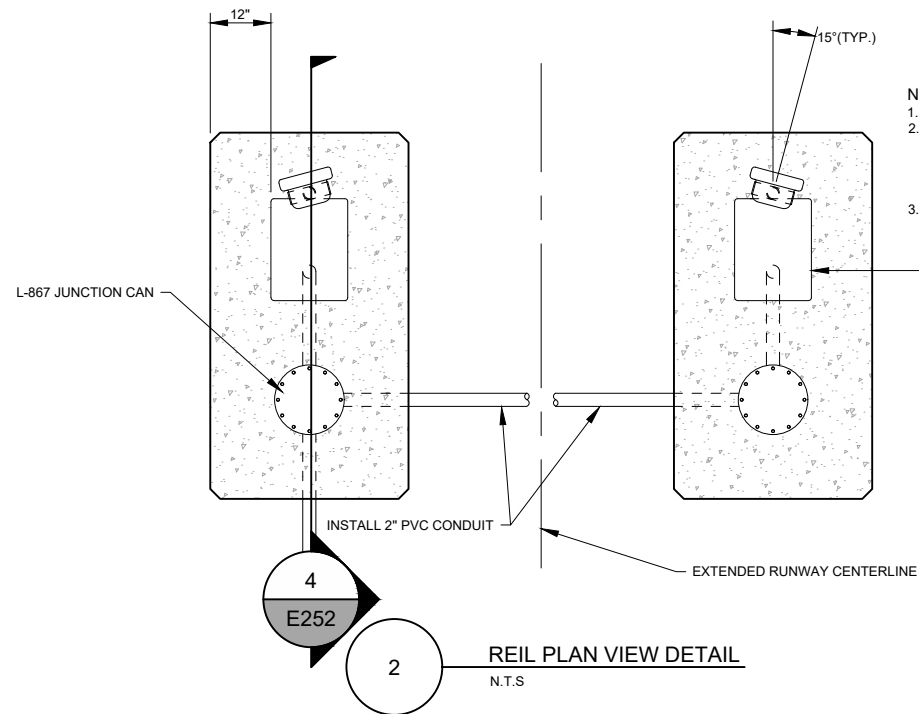
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104 of 109

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NOTES:

1. POWER AND CONTROL WIRING FOR THE REIL SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. ALL WIRE BETWEEN UNITS SHALL BE CONSIDERED INCIDENTAL TO THE REIL INSTALLATION.
2. CONDUIT BETWEEN UNITS SHALL BE CONSIDERED INCIDENTAL TO THE REIL INSTALLATION.



NOTES:

1. INSTALL REIL UNITS 40' FROM RUNWAY THRESHOLD.
2. POWER AND CONTROL WIRING FOR THE REIL SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. ALL WIRE SHALL BE CONSIDERED INCIDENTAL TO THE REIL INSTALLATION.
3. CONDUIT SHALL BE CONSIDERED INCIDENTAL TO THE REIL INSTALLATION.

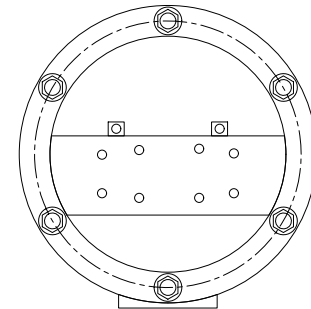
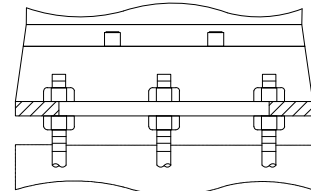
APPROXIMATELY
50'-0"

1 TIPDOWN BEACON POLE
N.T.S.

INSTALL NEW L-802A ROTATING BEACON ON NEW POLE. HALI-BRITE, 120V, 60HZ, CLASS 1 OR APPROVED EQUAL. PROVIDE WITH TOWER MOUNTING KIT, OBSTRUCTION LIGHT AND LIGHTNING PROTECTION.

INSTALL TIPDOWN BEACON POLE. HALI-BRITE 8000-50TP OR APPROVED EQUAL. PAINT AVIATION ORANGE AND WHITE.

2 POLE BASE DETAIL - ELEVATION VIEW
N.T.S.

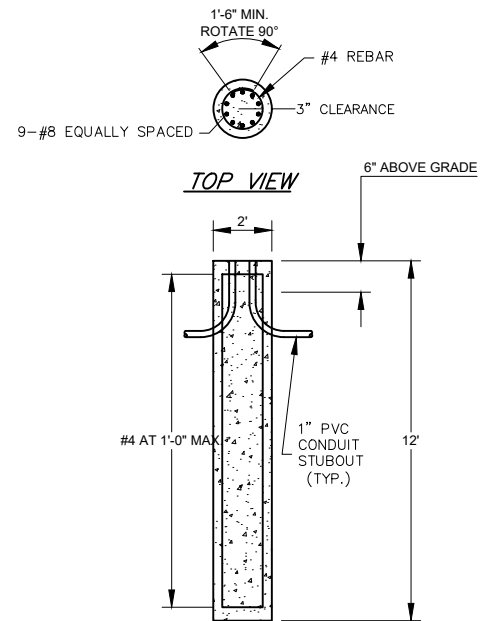


3 POLE BASE DETAIL - PLAN VIEW
N.T.S.

NOTES:

1. CONTRACTOR SHALL SUBMIT POLE FOUNDATION DRAWINGS STAMPED BY A PROFESSIONAL STRUCTURAL ENGINEER FOR APPROVAL BY THE ENGINEER.
2. CONTRACTOR TO COORDINATE WITH THE AIRPORT/ENGINEER THE FOLLOWING:
 - i. ORIENTATION OF THE TIPDOWN POLE.
 - ii. ONCE THE ORIENTATION HAS BEEN DETERMINED, CONTRACTOR TO VERIFY LOCATION WHERE BEACON WILL BE ACCESSED ON THE GROUND. AT THIS LOCATION THE CONTRACTOR IS TO PROVIDE A 10'x10' GRAVEL PLATFORM. GRAVEL PLATFORM INCIDENTAL TO PAY ITEM L-103b.

WINCH SYSTEM

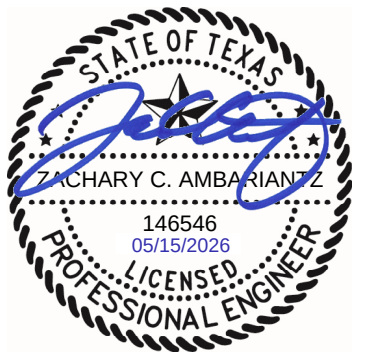


4 BEACON TOWER FOUNDATION DETAIL
N.T.S.

NOTE:

1. CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN FOR THE FOUNDATION, STAMPED BY A REGISTERED COLORADO STRUCTURAL ENGINEER. AT THE MINIMUM THE DESIGN SHALL INCLUDE: STRUCTURE DIMENSIONS, REINFORCEMENT, AND BOLT LAYOUT.
2. DIMENSIONS IN THIS DETAIL ARE APPROXIMATE. ALL DIMENSIONS SHALL BE VERIFIED BY A REGISTERED TEXAS STRUCTURAL ENGINEER

ISSUED FOR BID



ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001



ENNIS MUNICIPAL
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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL DETAILS
AND NOTES

STATE PROJ. NO.
TXDOT CSJ NO.: 2618ENNIS

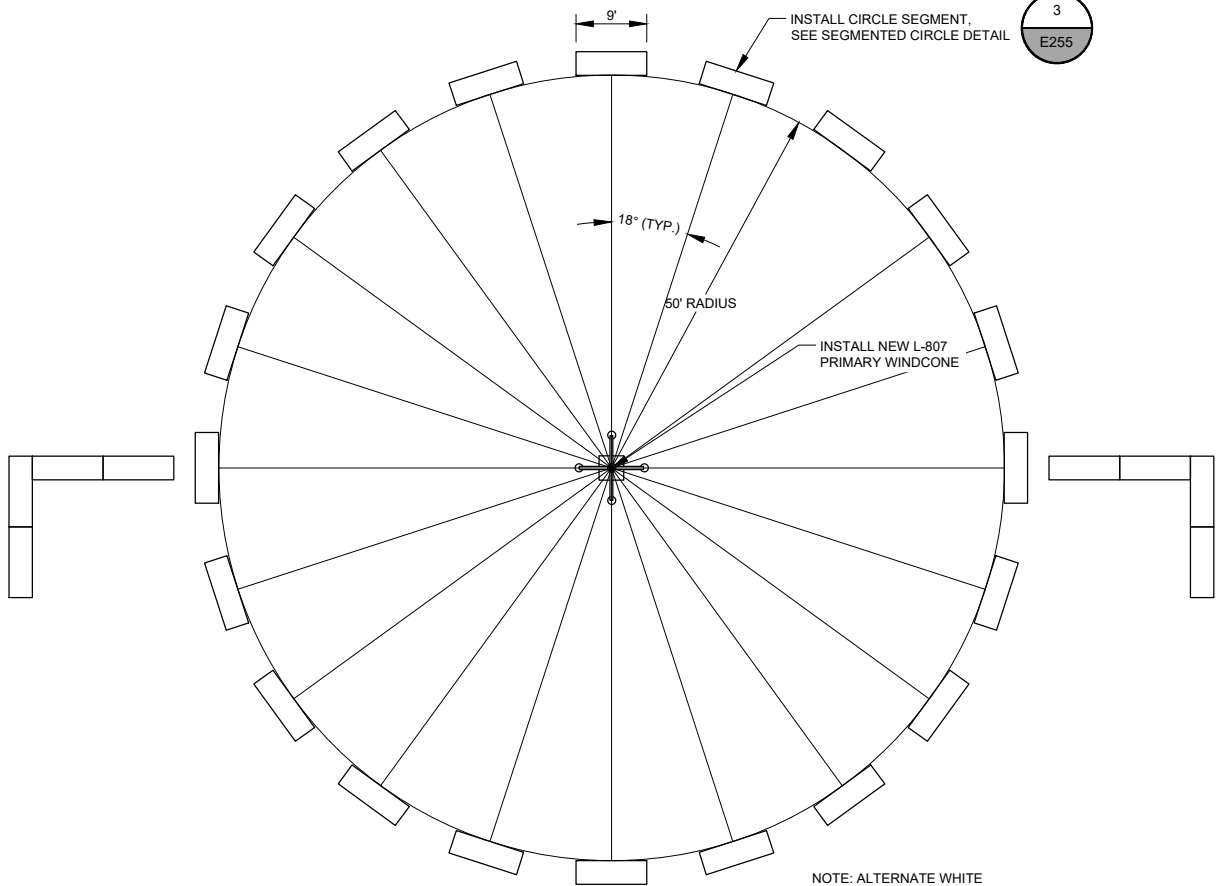
WOOLPERT PROJ. NO.
10022171.00.001.01

SHEET NAME

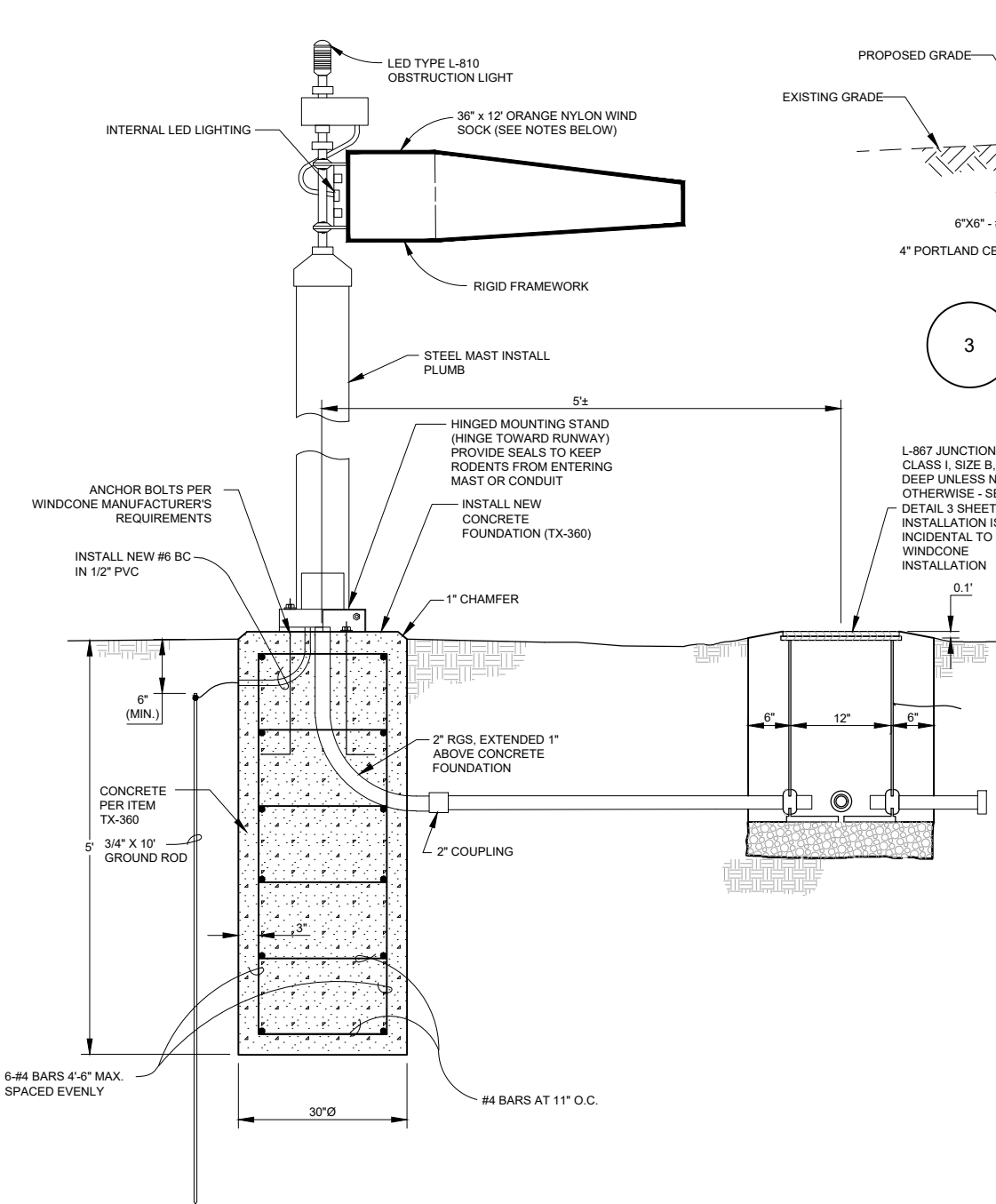
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SHEET NO.

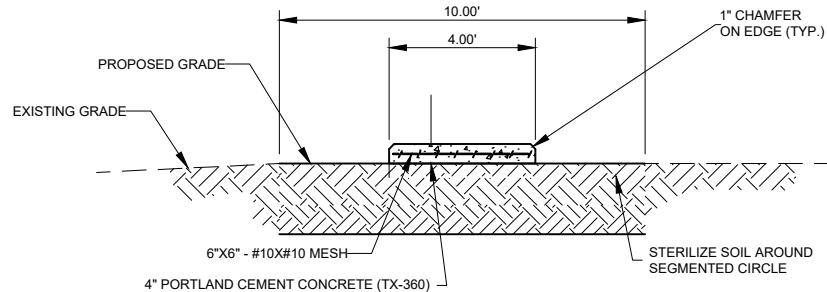
105 of 109



1
SEGMENTED CIRCLE PLAN
N.T.S



2
L-807 LIGHTED WINDCONE DETAIL
N.T.S



3
TYPICAL SECTION - SEGMENTED CIRCLE
N.T.S

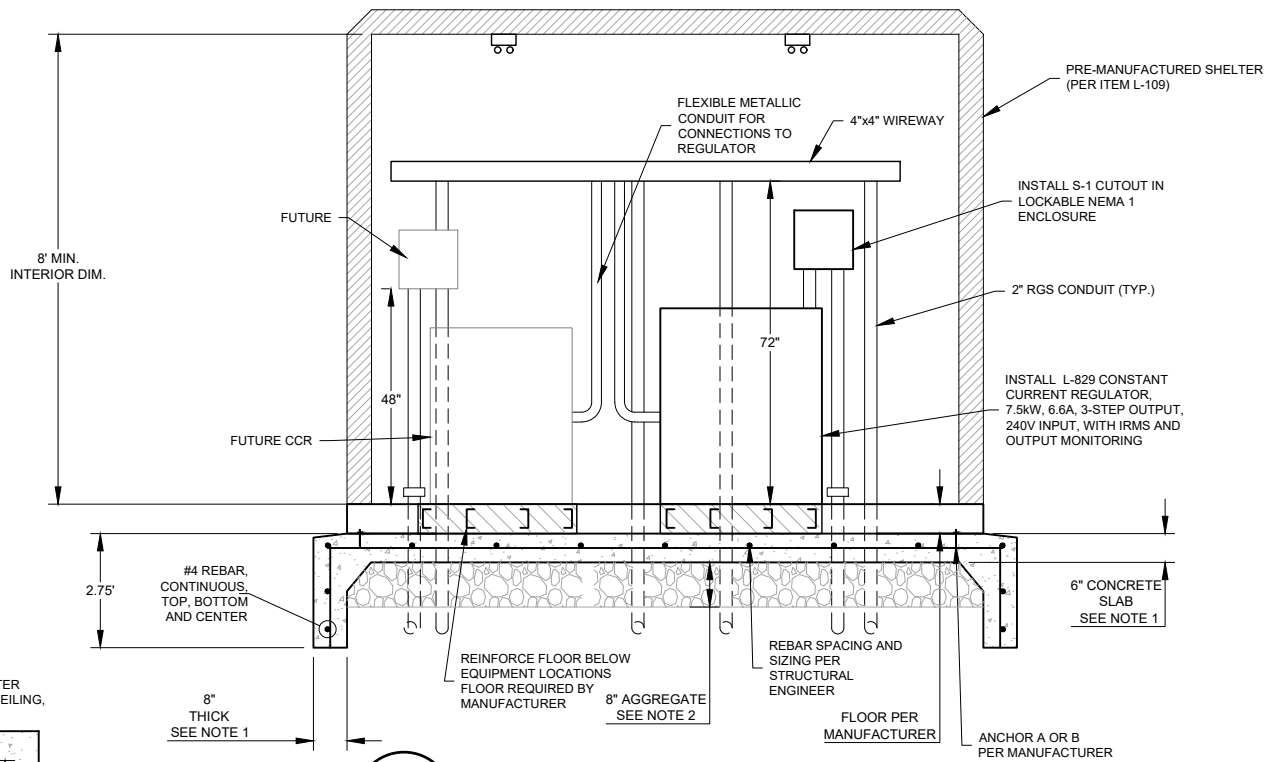
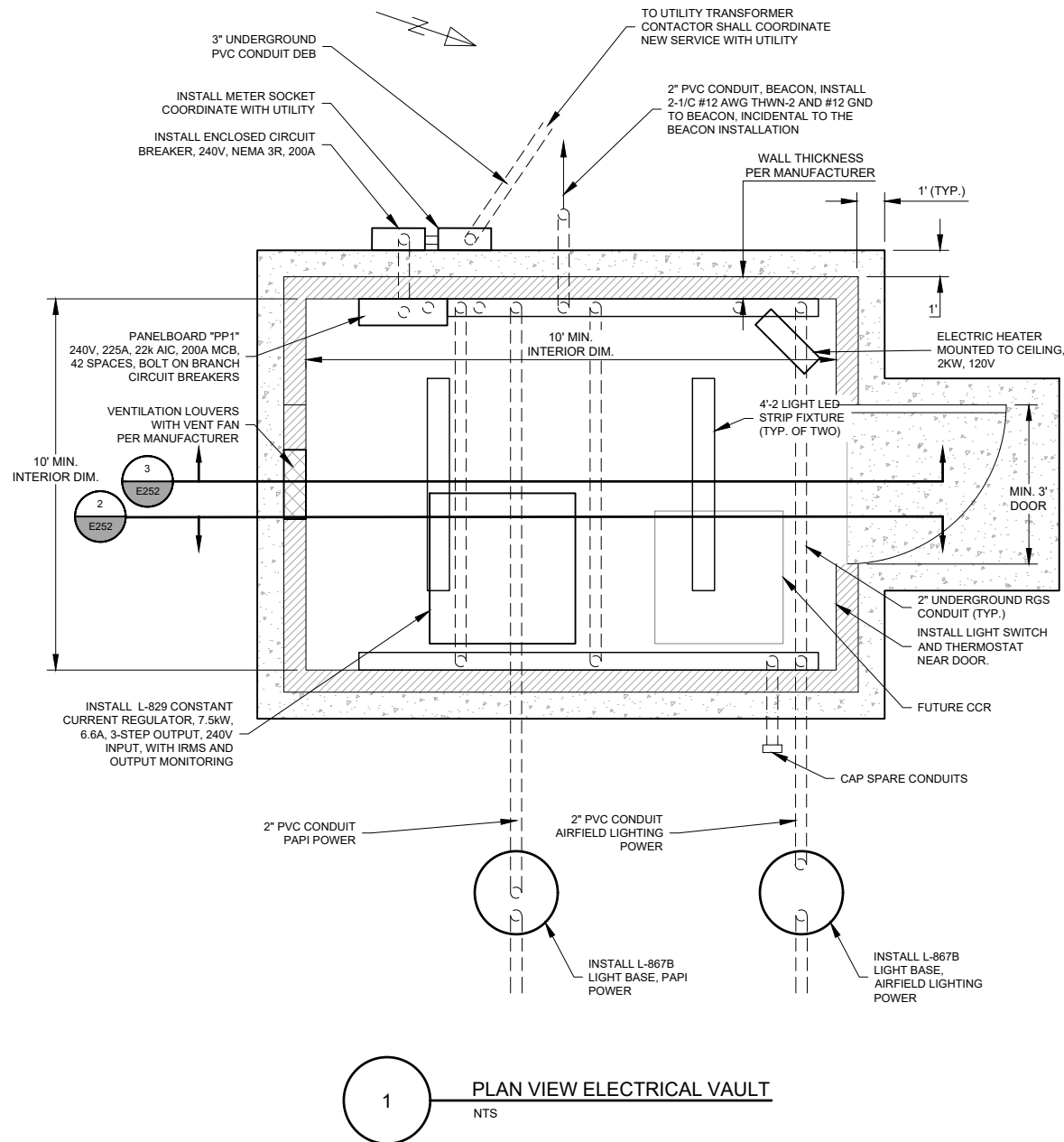
- NOTE:
- SEE SEGMENTED CIRCLE DETAIL - DETAIL 1 THIS SHEET
 - CONTRACTOR SHALL PAINT CONCRETE PADS WITH CONCRETE PAINT. CONTRACTOR SHALL SUBMIT ORANGE AND WHITE PAINT FOR APPROVAL. COST OF PAINT SHALL BE INCIDENTAL TO BID ITEMS FOR SEGMENTED CIRCLE.
 - ALL WORK SHOWN ABOVE IS INCIDENTAL TO SEGMENTED CIRCLE INSTALLATION ITEM.

ISSUED FOR BID

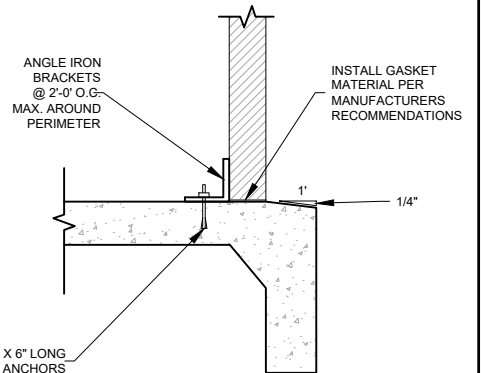
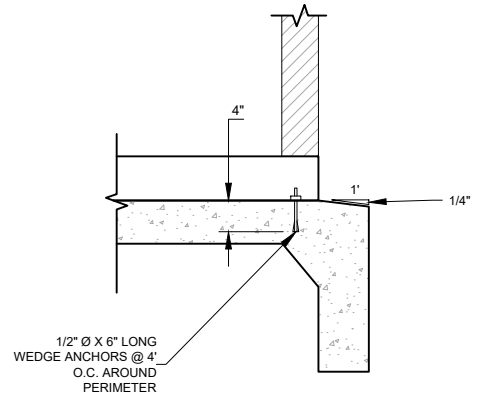
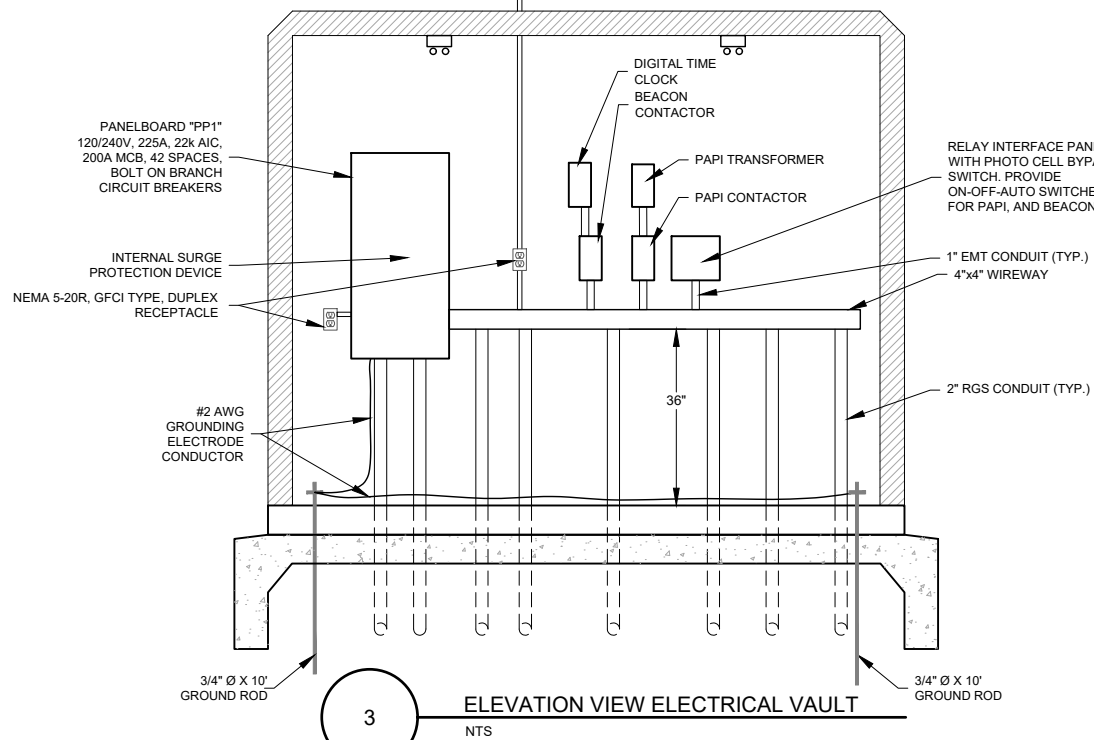
ZACHARY C. AMBARIANTZ P.E. 146546 5/15/2026

FOR AND ON BEHALF OF WOOLPERT, INC. TBPE #1001

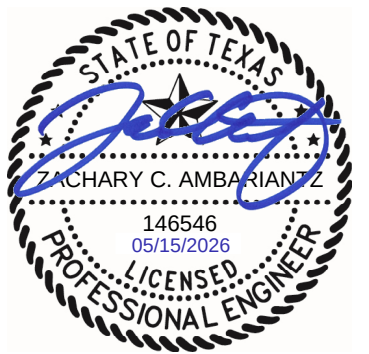
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- NOTE:
1. CONTRACTOR SHALL PROVIDE BUILDING FOUNDATION PLANS PER MANUFACTURER'S RECOMMENDATIONS FOR REVIEW BY THE ENGINEER.
 2. DESIGN SHALL PROVIDE DRAINAGE AWAY FROM THE BUILDING PER THE MANUFACTURER'S RECOMMENDATIONS.
 3. IF THE DRAINAGE DESIGN RESULTS IN THE INSTALLATION OF UNDERDRAINS, THEY SHALL MEET THE REQUIREMENTS OF THE D-705 SPECIFICATION.
 4. DOOR SHALL HAVE A WEATHER STRIP KICK PLATE, A CLOSURE, AN ANSI F86 STOREROOM TYPE LOCK KEYED TO THE AIRPORT'S LOCK SYSTEM. CONTRACTOR TO COORDINATE BEFORE ORDERING.
 5. EXTERIOR WALL PAINT AND FINISH TO BE FACTORY INSTALLED AND SELECTED FROM MANUFACTURERS STANDARD PALETTE. ENGINEER/OWNER TO SELECT COLOR PRIOR TO ORDERING.
 6. WALLS AND ROOF PANELS TO BE 6" THICK, MINIMUM R-VALUE OF 25.
 7. INSTALL #2 AWG GROUND RING AROUND THE BUILDING. BOND COUNTERPOISE WIRE AT BUILDING GROUND RING.



ISSUED FOR BID



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ENNIS MUNICIPAL
AIRPORT

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RUNWAY WIDENING, TAXIWAY
EXTENSION & AIRFIELD ELECTRICAL

ELECTRICAL DETAILS
AND NOTES

STATE PROJ. NO.
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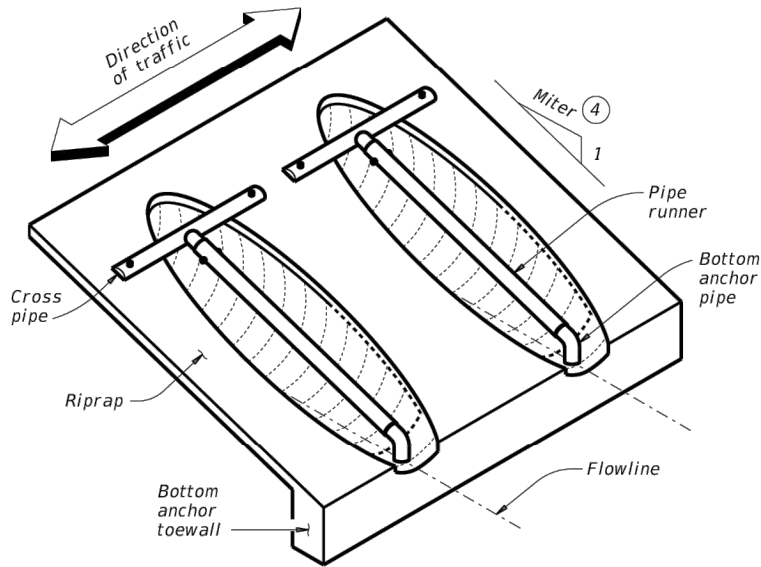
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10022171.00.001.01

SHEET NAME

E256

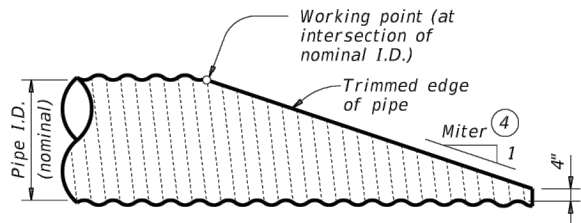
SHEET NO.

107 of 109



ISOMETRIC VIEW OF TYPICAL INSTALLATION

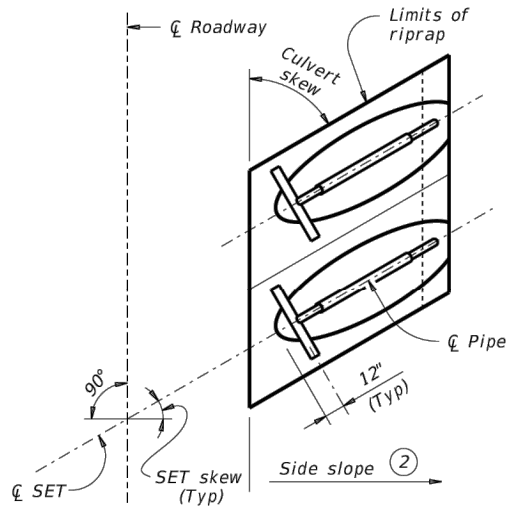
(Showing installation with no skew.)



NOTE: All pipe runners, calculations, and dimensions are based on the pipe culverts mitered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER

(Showing corrugated metal pipe (CMP) culvert. Details of reinforced concrete pipe (RCP) culvert are similar.)



PLAN OF SKEWED INSTALLATION

CROSS PIPE LENGTHS AND PIPE RUNNER LENGTHS ① ③

Corrugated Metal Pipe (CMP) Culverts																
Design	Pipe Culvert Span	Pipe Culvert Rise	Pipe Culvert Spa ~ G	Cross Pipe Length	Pipe Runner Length											
					3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
					0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
1	17"	13"	1' - 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	21"	15"	1' - 2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	28"	20"	1' - 5"	3' - 9"	N/A	N/A	3' - 5"	4' - 7"	N/A	N/A	4' - 11"	6' - 5"	N/A	N/A	7' - 11"	10' - 2"
4	35"	24"	1' - 8"	4' - 4"	3' - 10"	4' - 0"	4' - 7"	6' - 0"	5' - 5"	5' - 8"	6' - 6"	8' - 4"	8' - 8"	9' - 1"	10' - 3"	12' - 11"
5	42"	29"	1' - 11"	4' - 11"	5' - 1"	5' - 4"	6' - 1"	7' - 10"	7' - 2"	7' - 5"	8' - 6"	10' - 9"	11' - 2"	11' - 8"	13' - 2"	16' - 6"
6	49"	33"	2' - 2"	5' - 6"	6' - 2"	6' - 5"	7' - 4"	N/A	8' - 6"	8' - 10"	10' - 0"	N/A	13' - 3"	13' - 9"	15' - 6"	N/A
7	57"	38"	2' - 5"	6' - 2"	7' - 6"	7' - 9"	N/A	N/A	10' - 2"	10' - 7"	N/A	N/A	15' - 9"	16' - 4"	N/A	N/A

Reinforced Concrete Pipe (RCP) Culverts																
Design	Pipe Culvert Span	Pipe Culvert Rise	Pipe Culvert Spa ~ G	Cross Pipe Length	Pipe Runner Length											
					3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
					0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
1	22"	13 1/2"	1' - 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	26"	15 1/2"	1' - 2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	28 1/2"	18"	1' - 5"	3' - 9 1/2"	N/A	N/A	2' - 10"	3' - 10"	N/A	N/A	4' - 2"	5' - 5"	N/A	N/A	6' - 9"	8' - 9"
4	36 1/4"	22 1/2"	1' - 8"	4' - 5 1/4"	3' - 5"	3' - 7"	4' - 2"	5' - 6"	4' - 11"	5' - 1"	5' - 11"	7' - 7"	7' - 11"	8' - 3"	9' - 5"	11' - 11"
5	43 3/4"	26 5/8"	1' - 11"	4' - 0 3/4"	4' - 6"	4' - 8"	5' - 5"	6' - 11"	6' - 4"	6' - 7"	7' - 6"	9' - 7"	10' - 0"	10' - 5"	11' - 9"	14' - 10"
6	51 1/8"	31 5/16"	2' - 2"	5' - 8"	5' - 9"	6' - 0"	6' - 10"	N/A	7' - 11"	8' - 3"	9' - 4"	N/A	12' - 4"	12' - 10"	14' - 6"	N/A
7	58 1/2"	36"	2' - 5"	6' - 3 1/2"	6' - 11"	7' - 3"	N/A	N/A	9' - 6"	9' - 11"	N/A	N/A	14' - 9"	15' - 4"	N/A	N/A

TYPICAL PIPE CULVERT MITERS ④

Side Slope	0° Skew	15° Skew	30° Skew	45° Skew
3:1	3:1	3.106:1	3.464:1	4.243:1
4:1	4:1	4.141:1	4.619:1	5.657:1
6:1	6:1	6.212:1	6.928:1	8.485:1

STANDARD PIPE SIZES AND MAX PIPE RUNNER LENGTHS ①

Pipe Size	Pipe O.D.	Pipe I.D.	Max Pipe Runner Length
2" STD	2.375"	2.067"	N/A
3" STD	3.500"	3.068"	10' - 0"
4" STD	4.500"	4.026"	19' - 8"
5" STD	5.563"	5.047"	34' - 2"

CONDITIONS WHERE PIPE RUNNERS ARE NOT REQUIRED ③

Design	Single Pipe Culvert	Multiple Pipe Culverts
1 and 2	Skews thru 45°	Skews thru 45°
3	Skews thru 35°	Skews thru 10°
4	Normal (no skew)	Always required
5 thru 7	Always required	Always required

MATERIAL NOTES:

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Provide pipe runners, cross pipes, and anchor pipes that meet the requirements of ASTM A53 (Type E or S, Gr B), ASTM A500 Gr B, or API 5LX52.

Provide ASTM A307 bolts and nuts.

Galvanize all steel components, except concrete reinforcing, after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

GENERAL NOTES:

Pipe runners are designed for a traversing load of 1,800 pounds at yield as recommended by Research Report 280-1, "Safety Treatment of Roadside Cross-Drainage Structures", Texas Transportation Institute, March 1981.

Safety end treatments (SET) shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Pipe Runners.

Construct concrete riprap and all necessary inverts in accordance with the requirements of Item 432, "Riprap."

Payment for riprap and toewall is included in the price bid for each safety end treatment.

SHEET 1 OF 3



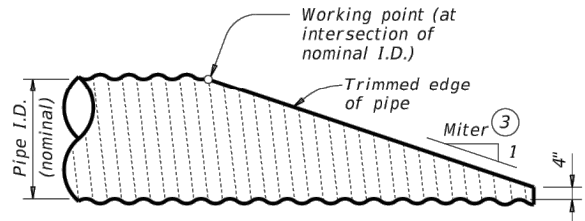
Texas Department of Transportation

Bridge
Division
Standard

SAFETY END TREATMENT FOR DESIGN 1 TO 7 ARCH PIPE CULVERTS TYPE II ~ CROSS DRAINAGE

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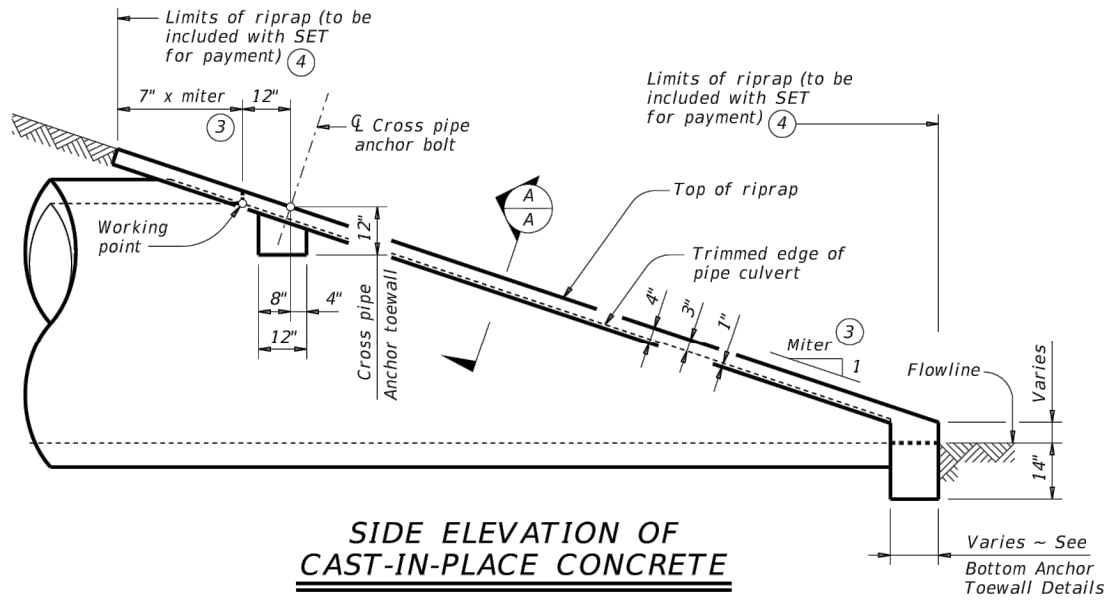
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NOTE: All pipe runners, calculations, and dimensions are based on the pipe culverts mitered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

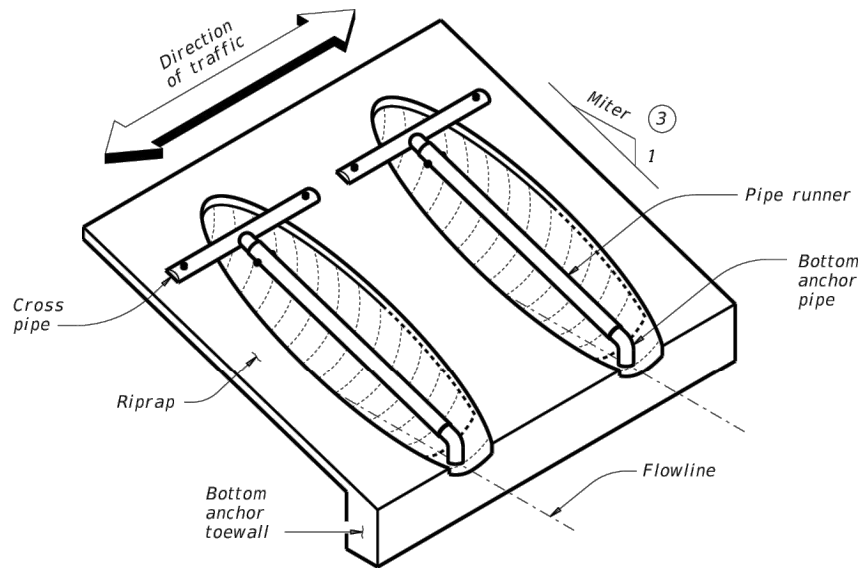
SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER

(Showing corrugated metal pipe (CMP) culvert. Details of reinforced concrete pipe (RCP) culvert are similar.)



SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

(Showing reinforced concrete pipe (RCP) culvert. Details of corrugated metal pipe (CMP) culvert are similar. Pipe runners not shown for clarity)



ISOMETRIC VIEW OF TYPICAL INSTALLATION

(Showing installation with no skew.)

CROSS PIPE LENGTHS AND PIPE RUNNER LENGTHS ① ②

Nominal Culvert I.D.	Pipe Culvert Spa ~ G	Cross Pipe Length	Pipe Runner Length											
			3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
			0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
24"	1' - 7"	3' - 5"	N/A	N/A	N/A	5' - 10"	N/A	N/A	N/A	8' - 1"	N/A	N/A	N/A	12' - 9"
27"	1' - 8"	3' - 8"	N/A	N/A	5' - 5"	6' - 11"	N/A	N/A	7' - 7"	9' - 7"	N/A	N/A	11' - 11"	14' - 11"
30"	1' - 10"	3' - 11"	N/A	N/A	6' - 4"	8' - 0"	N/A	N/A	8' - 9"	11' - 0"	N/A	N/A	13' - 8"	17' - 0"
33"	1' - 11"	4' - 2"	6' - 2"	6' - 5"	7' - 3"	9' - 1"	8' - 6"	8' - 10"	10' - 0"	12' - 5"	13' - 3"	13' - 9"	15' - 5"	19' - 2"
36"	2' - 1"	4' - 5"	6' - 11"	7' - 3"	8' - 2"	10' - 2"	9' - 6"	9' - 11"	11' - 2"	13' - 10"	14' - 9"	15' - 3"	17' - 2"	21' - 3"
42"	2' - 4"	4' - 11"	8' - 6"	8' - 10"	9' - 11"	12' - 4"	11' - 7"	12' - 0"	13' - 6"	16' - 8"	17' - 9"	18' - 5"	20' - 8"	25' - 7"
48"	2' - 7"	5' - 5"	10' - 1"	10' - 5"	11' - 9"	N/A	13' - 7"	14' - 2"	15' - 10"	N/A	20' - 9"	21' - 6"	24' - 2"	N/A
54"	3' - 0"	5' - 11"	11' - 8"	12' - 1"	N/A	N/A	15' - 8"	16' - 3"	N/A	N/A	23' - 10"	24' - 8"	N/A	N/A
60"	3' - 3"	6' - 5"	13' - 3"	N/A	N/A	N/A	17' - 9"	N/A	N/A	N/A	26' - 10"	N/A	N/A	N/A

TYPICAL PIPE CULVERT MITERS ③

Side Slope	0° Skew	15° Skew	30° Skew	45° Skew
3:1	3:1	3.106:1	3.464:1	4.243:1
4:1	4:1	4.141:1	4.619:1	5.657:1
6:1	6:1	6.212:1	6.928:1	8.485:1

CONDITIONS WHERE PIPE RUNNERS ARE NOT REQUIRED ②

Nominal Culvert I.D.	Single Pipe Culvert	Multiple Pipe Culverts
12" thru 21"	Skews thru 45°	Skews thru 45°
24"	Skews thru 45°	Skews thru 30°
27"	Skews thru 30°	Skews thru 15°
30"	Skews thru 15°	Skews thru 15°
33"	Skews thru 15°	Always required
36"	Normal (no skew)	Always required
42" thru 60"	Always required	Always required

STANDARD PIPE SIZES AND MAX PIPE RUNNER LENGTHS ①

Pipe Size	Pipe O.D.	Pipe I.D.	Max Pipe Runner Length
2" STD	2.375"	2.067"	N/A
3" STD	3.500"	3.068"	10' - 0"
4" STD	4.500"	4.026"	19' - 8"
5" STD	5.563"	5.047"	34' - 2"

ESTIMATED CONCRETE RIPRAP QUANTITIES (CY) ⑤

Nominal Culvert I.D.	3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
12"	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.8
15"	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9
18"	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	1.0
21"	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.2
24"	0.6	0.7	0.7	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.1	1.3
27"	0.7	0.7	0.8	0.9	0.8	0.9	0.9	1.1	1.1	1.1	1.2	1.4
30"	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.2	1.2	1.2	1.3	1.6
33"	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.3	1.3	1.4	1.5	1.7
36"	0.9	0.9	0.9	1.1	1.1	1.1	1.2	1.4	1.4	1.5	1.6	1.8
42"	1.0	1.0	1.1	1.3	1.2	1.3	1.3	1.6	1.6	1.7	1.8	2.1
48"	1.1	1.1	1.2	N/A	1.4	1.4	1.5	N/A	1.9	1.9	2.1	N/A
54"	1.3	1.3	N/A	N/A	1.6	1.6	N/A	N/A	2.1	2.1	N/A	N/A
60"	1.4	N/A	N/A	N/A	1.7	N/A	N/A	N/A	2.3	N/A	N/A	N/A

① Provide pipe runner of the size shown in the tables. Provide cross pipe of the same size as the pipe runner. Provide cross pipe stub out and bottom anchor pipe of the next smaller size pipe as shown in the Standard Pipe Sizes and Max Pipe Runner Lengths table.

② This standard allows for the placement of only one pipe runner across each culvert pipe opening. In order to limit the clear opening to be traversed by an errant vehicle, the following conditions must be met:

For 60" culvert pipes, the skew must not exceed 0°.
For 54" culvert pipes, the skew must not exceed 15°.
For 48" culvert pipes, the skew must not exceed 30°.
For all culvert pipe sizes 42" and less, the skew must not exceed 45°.

If the above conditions cannot be met, the designer should consider using a safety end treatment with flared wings. For further information, refer to the TxDOT Roadway Design Manual.

③ Miter = slope of mitered end of pipe culvert.

④ Riprap placed beyond the limits shown will be paid for as concrete riprap in accordance with Item 432, "Riprap".

⑤ Quantities shown are for one end of one reinforced concrete pipe (RCP) culvert. For multiple pipe culverts or for corrugated metal pipe (CMP) culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

SHEET 1 OF 2



Texas Department of Transportation

Bridge Division Standard

SAFETY END TREATMENT FOR 12" DIA TO 60" DIA PIPE CULVERTS TYPE II ~ CROSS DRAINAGE

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