



RUNWAY '12R-30L' RECONSTRUCTION

PMGAA SOLICITATION NO. 2023-022-1FB

RUNWAY '12R-30L' RECONSTRUCTION

BASE BID (SCHEDULE I)

ADD ALT 1 (SCHEDULE II)

ADD ALT 2 (SCHEDULE III)

FAA AIP NO. 3-04-0078-057-2023

ADOT PROJECT NO. TBD

PMGAA PROJECT NO. 1072

TAXIWAY H DEMOLITION & TAXIWAY B2 CONSTRUCTION

ADD ALT NO. 2 (SCHEDULE IV)

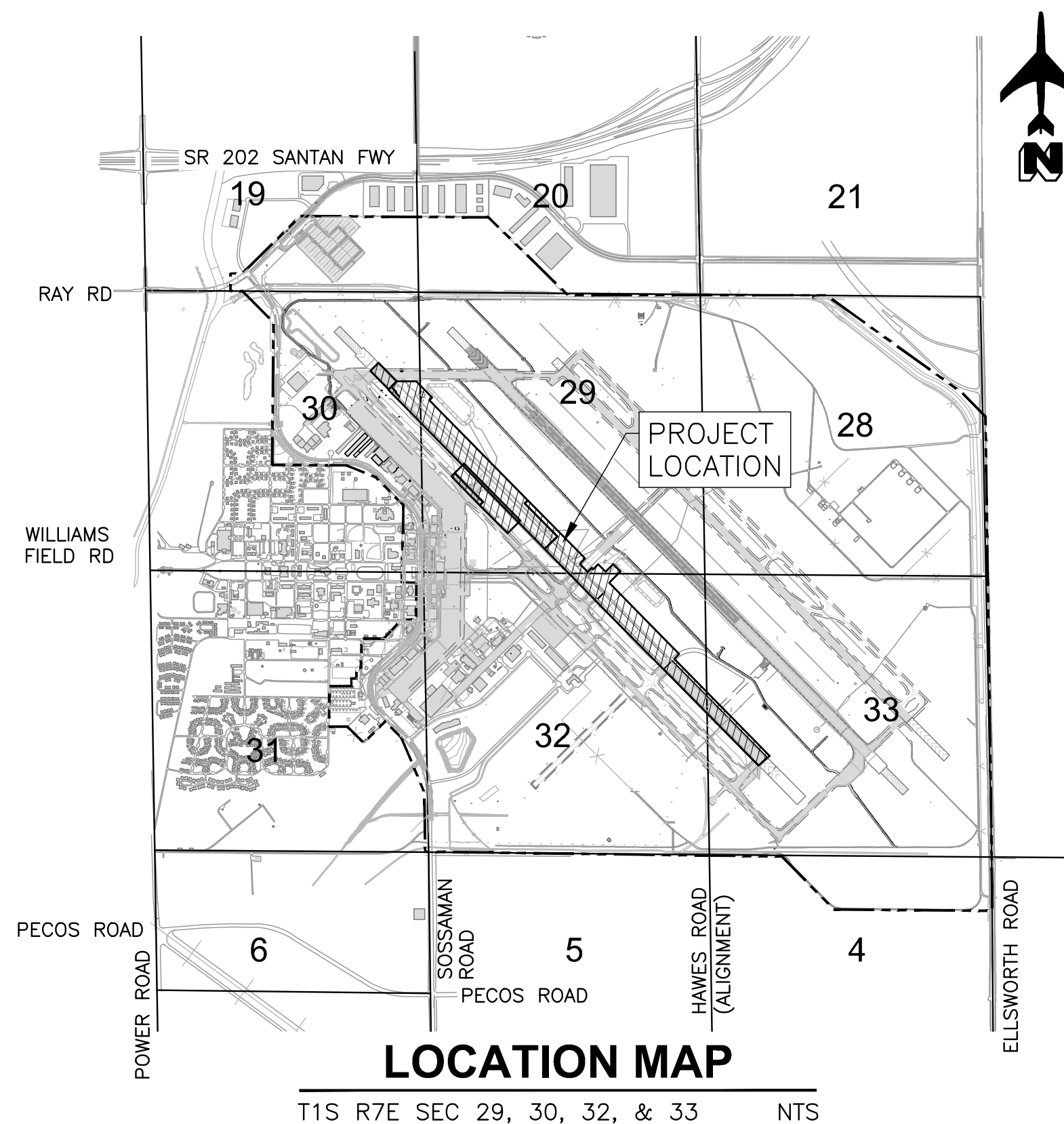
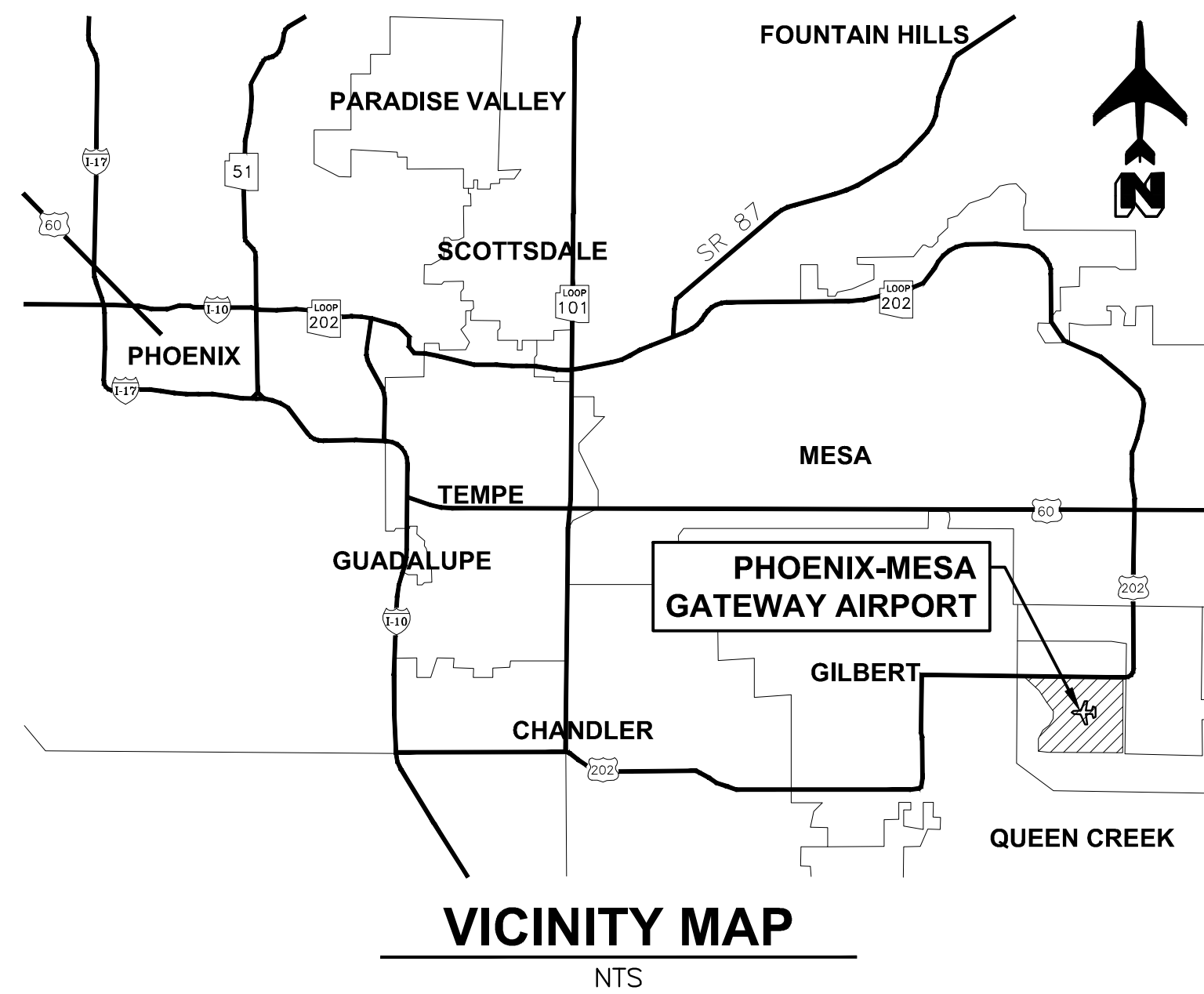
ADOT PROJECT NO. TBD

AUTHORITY PROJECT NO. 741

PARCEL NUMBERS

THIS PROJECT IS LOCATED WITHIN THE PROPERTY BOUNDARY OF THE PHOENIX-MESA GATEWAY AIRPORT. THIS PROPERTY CONSISTS OF THE FOLLOWING PARCEL NUMBERS. ALL SUCH PARCELS THAT CONTAIN ANY PORTION OF THIS PROJECT HAVE BEEN IDENTIFIED WITH A "■".

- | | | |
|--------------------------------------|---|---|
| <input type="checkbox"/> 304-30-020C | <input type="checkbox"/> 304-35-019 | <input type="checkbox"/> 304-36-001A |
| <input type="checkbox"/> 304-30-020F | <input type="checkbox"/> 304-35-020 | <input type="checkbox"/> 304-36-001B |
| <input type="checkbox"/> 304-30-027F | <input type="checkbox"/> 304-35-021 | <input type="checkbox"/> 304-36-002A |
| <input type="checkbox"/> 304-35-027G | <input type="checkbox"/> 304-35-022 | <input type="checkbox"/> 304-36-002B |
| <input type="checkbox"/> 304-35-011F | <input type="checkbox"/> 304-35-023 | <input type="checkbox"/> 304-36-002C |
| <input type="checkbox"/> 304-35-014A | <input checked="" type="checkbox"/> 304-35-024C | <input type="checkbox"/> 304-36-002F |
| <input type="checkbox"/> 304-35-014B | <input checked="" type="checkbox"/> 304-35-024D | <input type="checkbox"/> 304-36-002G |
| <input type="checkbox"/> 304-35-014C | <input type="checkbox"/> 304-35-024E | <input checked="" type="checkbox"/> 304-37-004E |
| <input type="checkbox"/> 304-35-014D | <input type="checkbox"/> 304-35-025A | <input type="checkbox"/> 304-37-004F |
| <input type="checkbox"/> 304-35-015A | <input type="checkbox"/> 304-35-026 | <input type="checkbox"/> 304-50-002Q |
| <input type="checkbox"/> 304-35-016A | <input type="checkbox"/> 304-35-026A | <input type="checkbox"/> 304-50-002V |
| <input type="checkbox"/> 304-35-016B | <input type="checkbox"/> 304-35-027A | <input type="checkbox"/> 304-50-002W |
| <input type="checkbox"/> 304-35-017A | <input type="checkbox"/> 304-35-027B | <input type="checkbox"/> 304-62-010M |
| <input type="checkbox"/> 304-35-018 | <input type="checkbox"/> 304-35-027C | <input checked="" type="checkbox"/> 304-62-010V |



AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR/ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

BENCH MARK

- ▲ PRIMARY, PROJECT BENCHMARK
POINT NO 105
FOUND IRON BAR IN HANDHOLE "AIRPORT NUMBER #400":
GRID NORTHING = 834142.10
GRID EASTING = 781981.34
NAVD '88 ELEVATION = 1380.44

APPROVALS

ENGINEERING
5835 S. Stansaman Road
Mesa, Arizona 85212
Phone: (480) 988-7600
Fax: (480) 988-2315

PHOENIX-MESA GATEWAY AIRPORT

THIS PLAN SET HAS BEEN REVIEWED AND MEETS PMGAA'S ENGINEERING STANDARDS AND MASTER PLANS. THIS SET HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH BUILDING SAFETY, ZONING, OR OTHER CITY OF MESA CODES AND STANDARDS.

DATE _____ REVIEWER _____

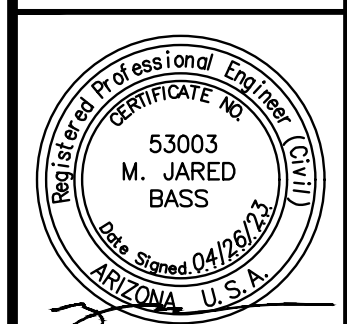
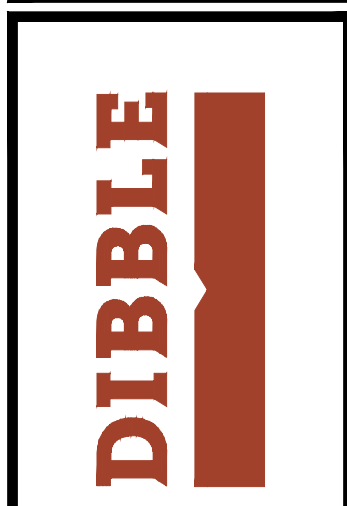
COORDINATION LIST

ORGANIZATION	CONTACT	PHONE
DESIGN		
ARCHITECT (BUILDING)	NONE	NONE
ARCHITECT (LANDSCAPE)	NONE	NONE
ENGINEER (CIVIL) DIBBLE	JARED BASS	602.957.1155
ENGINEER (CIVIL) KIMLEY HORN	JARRETT MOORE	623.552.5185
ENGINEER (ELECTRICAL) CR ENGINEERS	CATHY ALCORN	480.816.5541
ENGINEER (ELECTRICAL) KIMLEY HORN	DUSTIN COLWELL	775.200.1963
ENGINEER (FIRE)	NONE	NONE
ENGINEER (MECHANICAL)	NONE	NONE
ENGINEER (STRUCTURAL) KIMLEY HORN	BRETT STROUP	602.371.4566
GEOTECHNICAL	KIRK JACKSON	480.897.8200
SURVEYOR	JASON GRAHAM	602.957.1155
OWNER		
PMGAA ENGINEERING & FACILITIES DIRECTOR	BOB DRAPER	480.988.7705
PMGAA PROJECT MANAGER	TONY STEENECK	480.988.7611
PMGAA OPERATIONS	IVAN SMITH	480.988.7708
	DWAYNE HOYT	480.988.7570
BLUE STAKE COORDINATOR	TOBBIE McMILLAN	480.988.7545
UTILITIES		
LUMEN TECHNOLOGIES	USIC DISPATCH CENTER	800.778.9140
SOUTHWEST GAS	GENE FLOREZ	480.730.3841
SALT RIVER PROJECT	SRP BLUE STAKE	602.236.8026
COX COMMUNICATIONS	CHERYL BUTTS	623.328.4104

PHOENIX-MESA GATEWAY AIRPORT is owned and operated by the PHOENIX-MESA GATEWAY AIRPORT AUTHORITY, a Joint Powers Airport Authority comprised of the Cities of Mesa, Phoenix and Apache Junction; the Towns of Queen Creek and Gilbert; and the Gila River Indian Community; pursuant to Arizona Revised Statutes Section 28-8521.



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-G1-1_X-GNRL_BB



RUNWAY '12R-30L' RECONSTRUCTION OVERALL COVER SHEET

G1-1.0
SHEET NO.
1 OF 211

FILE:J:\2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-G1-1-X-GNRL_BB.dwg DATE: April 26, 2023 TIME: 11:52 AM BY: travis.woodman

FILE:J:\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-G1-1_X-GNRL-BB.dwg DATE:April 26, 2023 TIME:11:52 AM BY:travis_woodman

OVERALL & BASE BID SHEET INDEX				ADD ALT 1 SHEET INDEX				ADD ALT 2 SHEET INDEX				SCHEDULE IV SHEET INDEX			
SHT NO	SHT	SHEET TITLE		SHT NO	SHT	SHEET TITLE		SHT NO	SHT	SHEET TITLE		SHT NO	SHT	SHEET TITLE	
OVERALL: GENERAL				ADD ALT 1: (SCH II) GENERAL				ADD ALT 2: (SCH III) GENERAL				ADD ALT 2: SCHEDULE IV			
1	G1-1.0	COVER SHEET		67	G2-1.1	SHEET INDEX & KEY MAP		95	G3-1.1	SHEET INDEX & KEY MAP		167	G4-1.0	COVER SHEET	
2	G1-1.1	SHEET INDEX		68	G2-1.2	PROJECT SITE PLAN		96	G3-1.2	PROJECT SITE PLAN		168	G4-1.1	ABBREVIATIONS, LEGEND, AND SHEET INDEX	
3	G1-1.2	AIRPORT SITE PLAN		ADD ALT 1: (SCH II) PHASING				ADD ALT 2: PHASING				169	G4-1.2	GENERAL NOTES AND QUANTITIES	
4	G1-1.3	PROJECT SITE PLAN		69	G2-2.1	CONSTRUCTION PHASE 1		97	G3-2.1	OVERALL CONSTRUCTION PHASING PLAN		170	G4-1.3	ALIGNMENT DEFINITION PLAN	
5	G1-1.4	ABBREVIATIONS & LEGEND		ADD ALT 1: (SCH II) TYPICAL SECTIONS				98	G3-2.2	CONSTRUCTION PHASE 2A		171	G4-1.4	PROJECT KEY MAP (40 SCALE SHEETS)	
6	G1-1.5	QUANTITIES		70	G2-3.1	TYPICAL SECTIONS		99	G3-2.3	CONSTRUCTION PHASE 2B		172	D4-1.1	DEMOLITION PLAN	
7	G1-1.6	QUANTITIES		71	G2-3.2	TYPICAL SECTIONS		100	G3-2.4	CONSTRUCTION PHASE 2C		173	D4-1.2	DEMOLITION PLAN 2	
8	G1-1.7	SURVEY CONTROL PLAN		ADD ALT 1: (SCH II) DEMOLITION PLAN				101	G3-2.5	CONSTRUCTION PHASE 2D		174	C4-1.1	TYPICAL SECTIONS	
BASE BID: (SCH I) GENERAL				72	D2-1.1	STA 146+00 TO STA 156+00		ADD ALT 2: (SCH III) TYPICAL SECTIONS				175	C4-2.1	GEOMETRIC LAYOUT	
9	G1-1.8	SHEET INDEX & SHEET LAYOUT PLAN		73	D2-1.2	STA 156+00 TO STA 166+00		102	G3-3.1	TYPICAL SECTIONS		176	C4-2.2	GEOMETRIC LAYOUT	
10	G1-1.9	PROJECT SITE PLAN		ADD ALT 1: (SCH II) PAVING PLAN & PROFILE				103	G3-3.2	THRESHOLD TRANSITION TYPICAL SECTION		177	C4-3.1	PLAN AND PROFILE - TAXIWAY B2 (PROPOSED)	
BASE BID: (SCH I) PHASING				74	C2-1.1	STA 146+00 TO STA 156+00		ADD ALT 2: (SCH III) DEMOLITION PLAN				178	C4-4.1	PAVEMENT ELEVATION PLAN	
11	G1-2.1	CONSTRUCTION PHASE 1		75	C2-1.2	STA 156+00 TO STA 166+00		104	D3-1.1	STA 101+00 TO STA 111+00		179	C4-4.2	PAVEMENT ELEVATION PLAN	
BASE BID: (SCH I) TYPICAL SECTIONS				76	C2-1.3	ASPHALT TRANSITION PAVEMENT ELEVATIONS		105	D3-1.2	STA 111+00 TO STA 120+00		180	C4-5.1	GRADING AND DRAINAGE PLAN	
12	G1-3.1	TYPICAL SECTIONS		77	C2-1.4	TAXIWAY 'K'		106	D3-1.3	STA 120+00 TO STA 129+00		181	C4-5.2	GRADING AND DRAINAGE PLAN	
13	G1-3.2	ASPHALT TRANSITION TYPICAL SECTIONS		ADD ALT 1: (SCH II) GRADING & DRAINAGE PLAN				107	D3-1.4	STA 129+00 TO STA 138+00		182	C4-6.1	STORM DRAIN PROFILE (PROPOSED STORM DRAIN 'A')	
BASE BID: (SCH I) DEMOLITION PLAN				78	C2-2.1	STA 146+00 TO STA 156+00		108	D3-1.5	STA 138+00 TO STA 146+00		183	C4-7.1	JOINT LAYOUT PLAN	
14	D1-1.1	STA 156+00 TO STA 166+00		79	C2-2.2	STA 156+00 TO STA 166+00		109	D3-1.6	STA 146+00 TO STA 156+00		184	C4-8.1	PAVEMENT JOINT DETAILS	
15	D1-1.2	STA 166+00 TO STA 175+00		ADD ALT 1: (SCH II) PAVEMENT ELEVATION PLAN				ADD ALT 2: (SCH III) PAVING PLAN & PROFILE				185	C4-9.1	PAVEMENT MARKING PLANS	
16	D1-1.3	STA 175+00 TO STA 179+00		80	C2-3.1	STA 146+00 TO STA 156+00		110	C3-1.1	STA 101+00 TO STA 111+00		186	C4-9.2	PAVEMENT MARKING PLANS	
BASE BID: (SCH I) PAVING PLAN & PROFILE				81	C2-3.2	STA 156+00 TO STA 166+00		111	C3-1.2	STA 111+00 TO STA 120+00		187	C4-9.3	PAVEMENT MARKING DETAILS	
17	C1-1.1	STA 156+00 TO STA 166+00		82	C2-3.3	TAXIWAY 'K' AND 'B3'		112	C3-1.3	STA 120+00 TO STA 129+00		188	C4-9.4	PAVEMENT MARKING DETAILS	
18	C1-1.2	STA 166+00 TO STA 175+00		ADD ALT 1: (SCH II) JOINT LAYOUT PLAN				113	C3-1.4	STA 129+00 TO STA 138+00		189	C4-9.5	TEMPORARY SERVICE ROAD MARKING DETAILS	
19	C1-1.3	STA 175+00 TO STA 179+00		83	C2-4.1	STA 146+00 TO STA 156+00		114	C3-1.5	STA 138+00 TO STA 146+00		190	C4-10.1	STORMWATER POLLUTION PREVENTION PLAN	
20	C1-1.4	ASPHALT TRANSITION PAVEMENT ELEVATIONS		84	C2-4.2	STA 156+00 TO STA 166+00		115	C3-1.6	STA 146+00 TO STA 156+00		191	C4-10.2	STORMWATER POLLUTION PREVENTION PLAN	
BASE BID: (SCH I) GRADING & DRAINAGE PLAN				85	C2-4.3	TAXIWAY 'K' AND 'B3'		116	C3-1.7	PAVEMENT SPOT ELEVATIONS		192	C4-10.3	STORMWATER POLLUTION PREVENTION PLAN DETAILS	
21	C1-2.1	STA 156+00 TO STA 166+00		ADD ALT 1: (SCH II) PAVEMENT MARKING PLAN				ADD ALT 2: (SCH III) GRADING & DRAINAGE PLAN				193	C4-11.1	PROJECT DETAILS	
22	C1-2.2	STA 166+00 TO STA 175+00		86	C2-5.1	STA 146+00 TO STA 156+00		117	C3-2.1	STA 101+00 TO STA 111+00		194	C4-11.2	PROJECT DETAILS	
23	C1-2.3	STA 175+00 TO STA 179+00		87	C2-5.2	STA 156+00 TO STA 166+00		118	C3-2.2	STA 111+00 TO STA 120+00		195	C4-11.3	PROJECT DETAILS	
BASE BID: (SCH I) PAVEMENT ELEVATION PLAN				ADD ALT 1: (SCH II) STORMWATER POLLUTION PREVENTION PLAN				119	C3-2.3	STA 120+00 TO STA 129+00		196	C4-12.1	BORING LOGS	
24	C1-3.1	STA 156+00 TO STA 166+00		88	C2-6.1	STORMWATER POLLUTION PREVENTION PLAN		120	C3-2.4	STA 129+00 TO STA 138+00		197	E4-0.1	ELECTRICAL SCOPE OF WORK	
25	C1-3.2	STA 166+00 TO STA 175+00		ADD ALT 1: (SCH II) BORINGS				121	C3-2.5	STA 138+00 TO STA 146+00		198	E4-1.1	ELECTRICAL DEMOLITION	
26	C1-3.3	STA 175+00 TO STA 179+00		89	GT2-1.1	BORING LOCATION MAP		122	C3-2.6	STA 146+00 TO STA 156+00		199	E4-1.2	ELECTRICAL DEMOLITION	
BASE BID: (SCH I) JOINT LAYOUT PLAN				90	GT2-1.2	BORING LOGS		123	C3-2.7	PAPI & SEGMENTED CIRCLE GEO & GRADE		200	E4-2.1	ELECTRICAL LAYOUT	
27	C1-4.1	STA 156+00 TO STA 166+00		ADD ALT 1: ELECTRICAL				ADD ALT 2: (SCH III) PAVEMENT ELEVATION PLAN				201	E4-2.2	ELECTRICAL LAYOUT	
28	C1-4.2	STA 166+00 TO STA 175+00		91	E2-2.1	AIRFIELD ELECTRICAL DEMOLITION		124	C3-3.1	STA 101+00 TO STA 111+00		202	E4-2.3	ELECTRICAL TABLES	
29	C1-4.3	STA 175+00 TO STA 179+00		92	E2-2.2	AIRFIELD ELECTRICAL DEMOLITION		125	C3-3.2	STA 111+00 TO STA 120+00		203	E4-3.1	SIGN DETAILS	
30	C1-4.4	PCCP JOINT DETAILS		93	E2-3.1	AIRFIELD ELECTRICAL INSTALLATION		126	C3-3.3	STA 120+00 TO STA 129+00		204	E4-3.2	ELEVATED LIGHT DETAILS	
BASE BID: (SCH I) PAVEMENT MARKING PLAN				94	E2-3.2	AIRFIELD ELECTRICAL INSTALLATION		127	C3-3.4	STA 129+00 TO STA 138+00		205	E4-3.3	GROUNDING DETAILS	
31	C1-5.1	STA 156+00 TO STA 166+00		ADD ALT 1: (SCH III) JOINT LAYOUT PLAN				128	C3-3.5	STA 138+00 TO STA 146+00		206	E4-3.4	DUCT BANK DETAILS	
32	C1-5.2	STA 166+00 TO STA 175+00		ADD ALT 2: (SCH III) JOINT LAYOUT PLAN				129	C3-3.6	STA 146+00 TO STA 156+00		207	E4-3.5	HAND HOLE DETAILS	
33	C1-5.3	PAVEMENT MARKING DETAILS		ADD ALT 2: (SCH III) STORMWATER POLLUTION PREVENTION PLAN				ADD ALT 2: (SCH III) BORINGS				208	E4-3.6	TEMPORARY LIGHTING DETAILS	
34	C1-5.4	PAVEMENT MARKING DETAILS		130	C3-4.1	STA 101+00 TO STA 111+00		131	C3-4.2	STA 111+00 TO STA 120+00		209	E4-3.7	RGL DETAILS	
BASE BID: (SCH I) STORMWATER POLLUTION PREVENTION PLAN				132	C3-4.3	STA 120+00 TO STA 129+00		133	C3-4.4	STA 129+00 TO STA 138+00		210	E4-4.1	CIRCUIT MAP	
35	C1-6.1	STORMWATER POLLUTION PREVENTION PLAN		134	C3-4.5	STA 138+00 TO STA 146+00		135	C3-4.6	STA 146+00 TO STA 156+00		211	E4-4.2	CIRCUIT MAP 2	
36	C1-6.2	STORMWATER POLLUTION PREVENTION DETAILS		ADD ALT 2: (SCH III) PAVEMENT MARKING PLAN				136	C3-5.1	STA 100+00 TO STA 119+00					
BASE BID: (SCH I) BORINGS				ADD ALT 2: (SCH III) STORMWATER POLLUTION PREVENTION PLAN				137	C3-5.2	STA 119+00 TO STA 139+00					
37	GT1-1.1	BORING LOCATION MAP & LOGS		ADD ALT 2: (SCH III) STORMWATER POLLUTION PREVENTION PLAN				138	C3-5.3	STA 139+00 TO STA 156+00					
38	GT1-1.2	BORING LOGS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
BASE BID: ELECTRICAL				ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
39	E1-1.1	ELECTRICAL LEGEND		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
40	E1-1.2	ELECTRICAL NOTES		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
41	E1-2.1	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
42	E1-2.2	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
43	E1-2.3	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
44	E1-2.4	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
45	E1-2.5	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
46	E1-2.6	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
47	E1-2.7	AIRFIELD ELECTRICAL DEMOLITION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
48	E1-3.1	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
49	E1-3.2	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
50	E1-3.3	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
51	E1-3.4	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
52	E1-3.5	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
53	E1-3.6	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
54	E1-3.7	AIRFIELD ELECTRICAL INSTALLATION		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
55	E1-4.1	AIRFIELD GUIDANCE SIGN SCHEDULE		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
56	E1-5.1	CONDUIT DUCTBANK DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
57	E1-5.2	GROUNDING DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
58	E1-5.3	RUNWAY DISTANCE REMAINING SIGN CONCRETE BASE & 5KV SPLICE DETAIL		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
59	E1-5.4	ELEVATED EDGE LIGHT FIXTURE DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
60	E1-5.5	4'X4' HANDHOLE DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
61	E1-5.6	JUNCTION CAN DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
62	E1-5.7	PAPI INSTALLATION DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
63	E1-5.8	PAPI CRITERIA SCHEDULES		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
64	E1-5.9	TEMPORARY THRESHOLD DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
65	E1-5.10	WINDCOONE AND RUNWAY GUARD LIGHT INSTALLATION DETAILS		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							
66	E1-6.1	EQUIPMENT DATA TABLES		ADD ALT 2: (SCH III) BORINGS				ADD ALT 2: (SCH III) BORINGS							

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 53003
 M. JARED BASS
 License No. 0418767
 State of Arizona, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-1_X-GNRL_BB



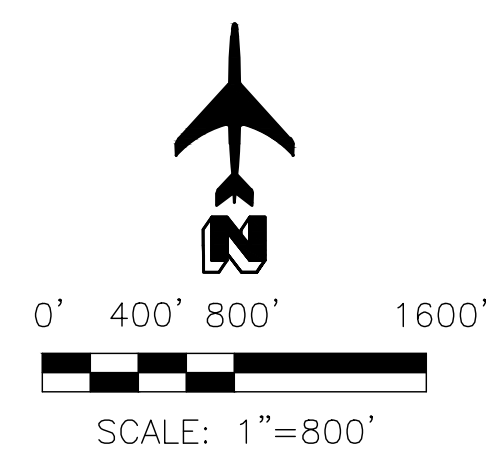
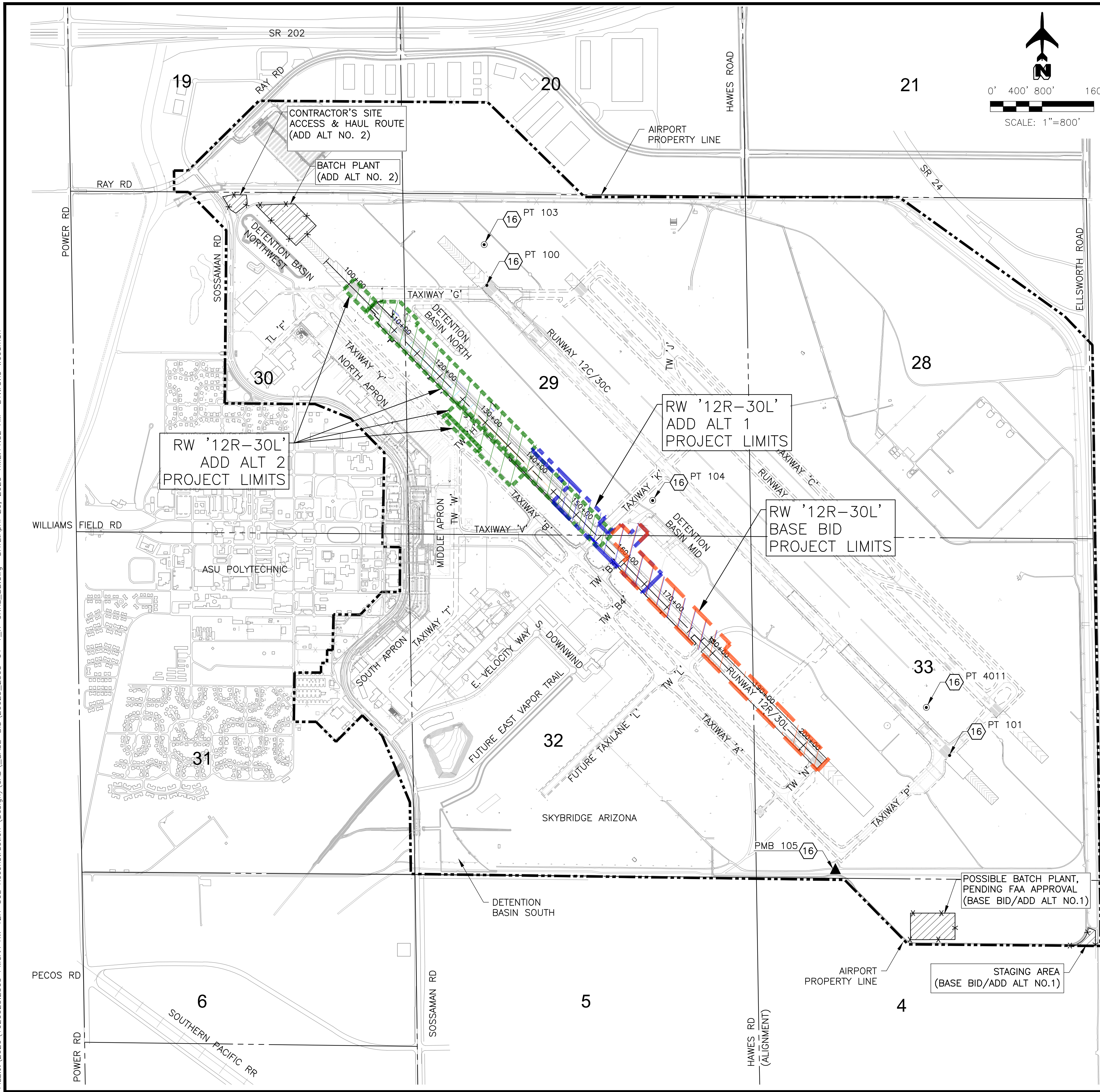
RUNWAY '12R-30L' RECONSTRUCTION OVERALL SHEET INDEX

G1-1.1

SHEET NO. 2 OF 211



FILE:J:\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD\BASE-BID\20023_2303-G1-1_X-GNRL-BB.dwg DATE:April 26, 2023 TIME:11:52 AM BY:travis_woodman



REFERENCE NOTES

16 REFER TO SURVEY CONTROL PLAN SHT G1-1.7

LEGEND

- - - - - BASE BID SCHEDULE I PROJECT LIMITS
- - - - - ADD ALT 1 SCHEDULE II PROJECT LIMITS
- - - - - ADD ALT 2 SCHEDULE III PROJECT LIMITS

REV	DATE	DESCRIPTION

DIBBLE

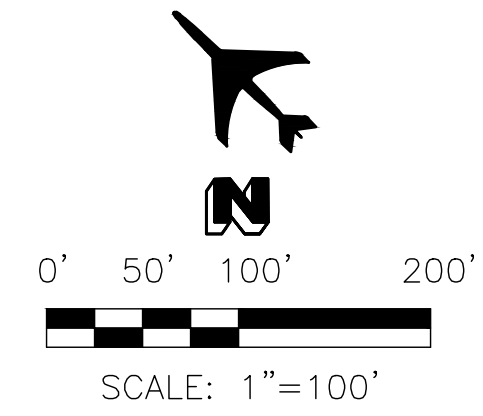
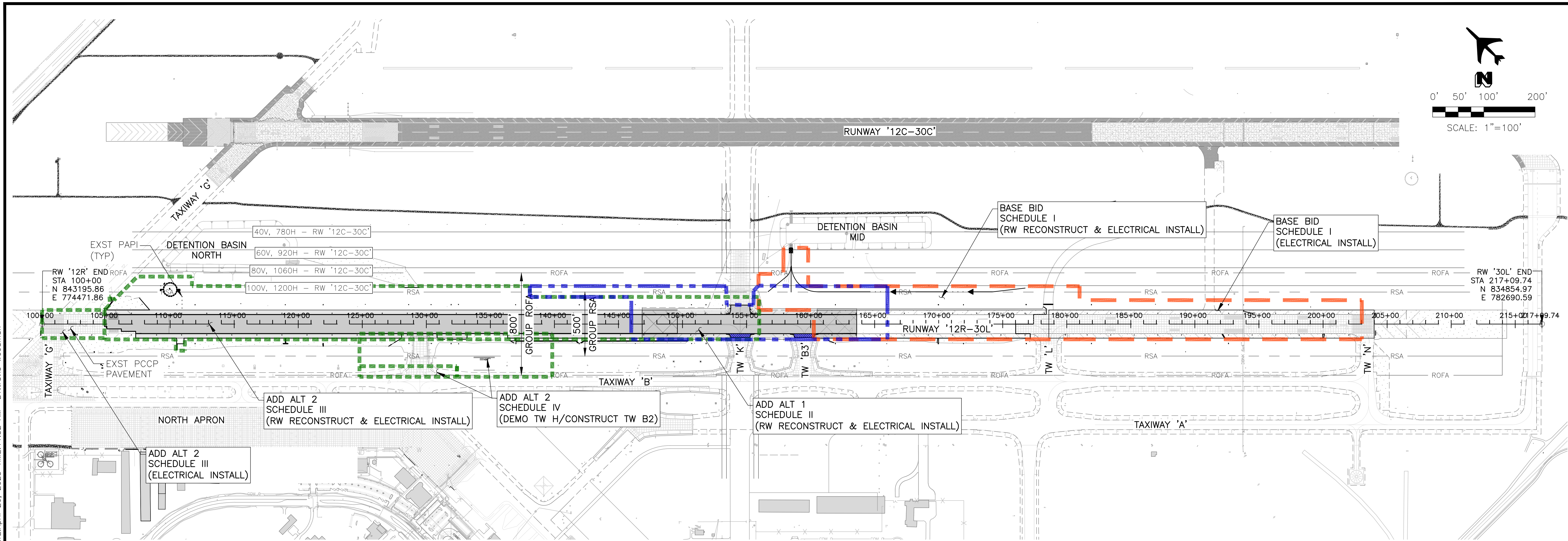
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-1_X-GNRL_BB



RUNWAY '12R-30L' RECONSTRUCTION OVERALL AIRPORT SITE PLAN



FILE: \\2020\1020023\2303_PMG04_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-G1-1-X-GNRL_BB.dwg DATE: April 26, 2023 TIME: 11:52 AM BY: travis.woodman



- GENERAL NOTES**
1. CONSTRUCTION TRAFFIC SHALL YIELD TO AIRCRAFT TRAFFIC AT ALL TIMES.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF HIS OWN EQUIPMENT.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE INCIDENTAL GRADING & INFRASTRUCTURE NECESSARY FOR THE TEMPORARY HAUL ROADS. ANY DISTURBED AREA SHALL BE RETURNED TO A CONDITION THAT IS EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION, TO THE SATISFACTION OF THE AIRPORT.
 4. ALL STAGING AREA LIMITS MUST BE COORDINATED WITH THE AIRPORT AND MAY NEED TO BE ADJUSTED TO ACCOMMODATE AIRPORT OPERATIONS.
 5. CONTRACTOR MUST REMEDIATE ANY PAVEMENT MARKINGS OBLISCURED BY CONSTRUCTION EQUIPMENT TRAFFIC.

LEGEND

	BASE BID SCHEDULE I PROJECT LIMITS
	ADD ALT 1 SCHEDULE II PROJECT LIMITS
	ADD ALT 2 SCHEDULE III PROJECT LIMITS

50V, 710H - RW '12C-30C'

THE 14 CFR PART 77 SAFE, EFFICIENT USE, AND PRESERVATION OF NAVIGABLE AIRSPACE ESTABLISHES SEVERAL IMAGINARY SURFACES THAT ARE USED AS A GUIDE TO PROVIDE A SAFE AND UNOBSTRUCTED OPERATING ENVIRONMENT FOR AVIATION. THE CFR PART 77 CONTOURS SHOWN ARE FOR INFORMATION PURPOSES ONLY AND DEPICT THE MAXIMUM ALLOWABLE VERTICAL HEIGHT (IN FEET, LABEL V) OF CONSTRUCTION EQUIPMENT ABOVE THE RUNWAY CENTERLINE ELEVATION. THE CONTRACTOR'S EQUIPMENT SHALL REMAIN BELOW ALL CFR PART 77 SURFACES AT ALL TIMES, UNLESS APPROVED OTHERWISE BY ENGINEER.



REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-1-X-GNRL_BB



RUNWAY '12R-30L' RECONSTRUCTION OVERALL PROJECT SITE PLAN

FILE: \\2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023-2303-G1-1-X-GNRL-BB.dwg DATE: April 26, 2023 TIME: 11:52 AM BY: travis.woodman

LEGEND

	PRIMARY, PROJECT BENCHMARK
	FOUND CONTROL AS NOTED
	EXISTING 4'x4'x4' HANDHOLE
	EXISTING ELEC HANDHOLE
	EXISTING TW EDGE/RW EDGE/RW THRESHOLD LIGHT
	EXISTING COMM MH
	EXISTING ELEC MH
	EXISTING RW THRESHOLD/END LIGHT ON NEW BASE
	EXISTING RW EDGE LIGHT
	NEW RW EDGE LIGHT
	EXT TW EDGE LIGHT ON EXST BASE
	EXT TW EDGE LIGHT ON NEW BASE
	EXISTING ELECTRICAL
	PROPOSED ELECTRICAL
	AIRPORT PROPERTY BOUNDARY
	CENTER LINE
	PROPOSED CONTOURS 1361
	PROPOSED CONTOURS 1360
	PROPOSED CONTOURS 1364
	PROPOSED CONTOURS 1365
	EXISTING CONTOURS 1361
	EXISTING CONTOURS 1360
	EXISTING CONTOURS 1364
	EXISTING CONTOURS 1365
	ROFA- RUNWAY OBJECT FREE AREA
	RSA- RUNWAY SAFETY AREA
	SAW CUT
	GB GRADE BREAK
	JOINT TYPE
	PROPOSED GRADE (+1300)
	EXISTING GRADE (+1300)

	LOW LEVEL BARRICADES
	VERTICAL PANEL BARRICADES
	AIRCRAFT DETOUR
	CONTRACTOR'S SITE ACCESS & HAUL ROUTE
	LIGHTED 'X' FOR RUNWAY CLOSURE
	PAVEMENT MARKING OBLITERATION

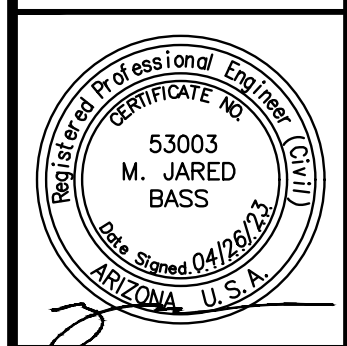
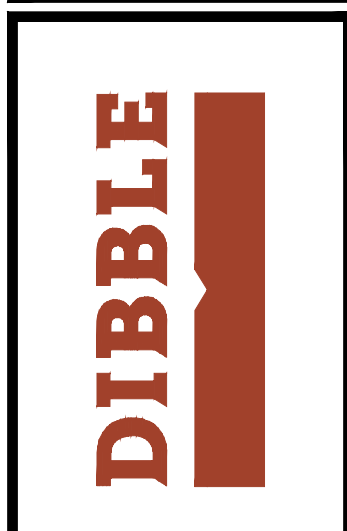
ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	PC	POINT OF CURVATURE
AC	ASPHALT CONCRETE	PCC	PORTLAND CEMENT CONCRETE
ASU	ARIZONA STATE UNIVERSITY	PMGAA	PHOENIX-MESA GATEWAY AIRPORT AUTHORITY
BCF	BRASS CAP FLUSH	PRC	POINT OF REVERSE CURVATURE
BM	BENCHMARK	PT	POINT OF TANGENCY OR POINT
BW	BOTH WAYS	PUE	PUBLIC UTILITY EASEMENT
CL	CENTERLINE	R	RANGE
CASS	COMPRESSED AIR SERVICE SYSTEM	RCP	REINFORCED CONCRETE PIPE
CE	CONCRETE ENCASED	RD	ROAD
COM	CITY OF MESA	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
CONT ITEM	CONTINGENT ITEM	ROFA	RUNWAY OBJECT FREE AREA
CORR	CORRECTION	RPZ	RUNWAY PROTECTION ZONE
CP	CONTROL POINT	RSA	RUNWAY SAFETY AREA
DET	DETAIL	RT	RIGHT
DIP	DUCTILE IRON PIPE	RR	RAILROAD
E	EAST	RW	RUNWAY
EOP	EDGE OF PAVEMENT	S	SOUTH
EXST	EXISTING	SD	STORM DRAIN
FCDMC	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY	SEC, SECT	SECTION
FAA	FEDERAL AVIATION ADMINISTRATION	SHT	SHEET
FG	FINISHED GRADE	SIDA	SECURITY IDENTIFICATION DISPLAY AREA
FL	FLOWLINE	SP	SPECIAL PROVISIONS
G	GROUND	SS	SANITARY SEWER
GA	GENERAL AVIATION	STD	STANDARD
GR	GRATE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
IE	INVERT ELEVATION	T	TOWNSHIP
LT	LEFT	TOFA	TAXIWAY OBJECT FREE AREA
LTSG	LIME TREATED SUBGRADE	TBM	TEMPORARY BENCH MARK
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS	TSA	TAXIWAY SAFETY AREA
ME	MATCH EXISTING	TL	TAXILANE
MH	MANHOLE	TW	TAXIWAY
N	NORTH	TYP	TYPICAL
NPI	NON PAY ITEM	UNO	UNLESS NOTED OTHERWISE
NTS	NOT TO SCALE	VC	VERTICAL CURVE
OAE	OR APPROVED EQUAL	WI	WITH
OC	ON CENTER	W	WEST
OFA	OBJECT FREE AREA		
P, PVMT	PAVEMENT		
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT		

PAVEMENT LEGEND

	EXST PCCP		RUNWAY PCCP SECT 1, SHT G1-3.1
	EXST AC PAVEMENT		RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	EXST SHOULDER STABILIZATION		RUNWAY TRANSITION AC PAVEMENT SECT 3, SHT G1-3.1
	REMOVE PAVEMENT SECTION (±) 9" PCCP, 3" AC, 6" PCCP		SHOULDER STABILIZATION SECT 4, SHT G1-3.1
	REMOVE PAVEMENT SECTION (±) 9" PCCP, 6" ABC, 6" PCCP		
	REMOVE PAVEMENT SECTION (16" PCCP, 6" AC)		
	REMOVE AC PAVEMENT (± 4" DEPTH)		
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)		
	REMOVE AC PAVEMENT (14" DEPTH)		

REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-G1-1_X-GNRL_BB



RUNWAY '12R-30L' RECONSTRUCTION OVERALL ABBREVIATIONS & LEGEND



FILE:J:\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-G1-1-X-GNRL-BB.dwg DATE:April 27, 2023 TIME:8:12 AM BY:travis woodman

PHOENIX-MESA GATEWAY AIRPORT RUNWAY 12R-30L RECONSTRUCTION - BASE BID (SCHEDULE I) 100% ESTIMATED QUANTITIES				
LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	AS-BUILT QTY.
CIVIL				
1	SP 50.02.1	Location of Underground Utilities (Schedule I)	8	EA
2	SP 50.07.1	Underground Utility Removal (Schedule I)	600	LF
3	SP 60.04.1	Airfield Safety and Security (Schedule I)	1	LS
4	SP 80.01.1	Rip Rap with Filter Fabric (D50-9-Inches, 24-Inch Depth)	111	SY
5	SP 80.02.1	Concrete Spillway	1	LS
6	C-100-14.1	Contractor Quality Control Program (CQCP) (Schedule I)	1	LS
7	C-102-5.1	Storm Water Pollution Prevention Plan (Schedule I)	1	LS
8	C-105-6.1	Mobilization (Schedule I)	1	LS
9	P-101-5.1	Sawcut Pavement Section (+) 9" PCCP, 2" AC, 7" PCCP	300	LF
10	P-101-5.2	Remove Pavement Section PCCP (+) 9" PCCP, 2" AC, 7" PCCP	22490	SY
11	P-101-5.3	Sawcut PCCP (+) 16" Depth	580	LF
12	P-101-5.4	Remove PCCP Section (+) 16" PCCP, 6" AC	4505	SY
13	P-101-5.6	Sawcut AC Pavement (+) 4" Depth	2124	LF
14	P-101-5.7	Remove AC Pavement (+) 4" Depth	13617	SY
15	P-101-5.8	Sawcut Concrete Drainage Spillway (+) 3" Depth	20	LF
16	P-101-5.9	Remove Concrete Drainage Spillway (+) 3" Depth	50	SY
17	P-101-5.10	Sawcut AC Pavement (+) 3" Depth	119	LF
18	P-101-5.11	Remove AC Pavement (+) 3" Depth	65	SY
19	P-152-4.1	Unclassified Excavation	1	LS
20	P-152-4.2	Over-Excavation & Replacement of Unsuitable Materials, Backfill & Compaction	4048	CY
21	P-154-5.1	Subbase Course (10-Inch Depth)	13482	SY
22	P-155-8.1	Lime-Treated Subgrade (8-Inch Depth)	40480	SY
23	P-208-5.1	Aggregate Base Course - Stabilized Shoulder (4-Inch Depth)	2115	SY
24	P-209-5.1	Aggregate Base Course (8-Inch Depth)	13482	SY
25	P-304-8.1	Cement-Treated Base Course (6-Inch Depth)	21839	SY
26	P-304-8.2	Cement-Treated Base Course (Variable Depth, 6-Inches to 16.5-Inches)	5159	SY
27	P-401-8.1	Runway Transition AC Surface Course (4-Inch Depth)	5159	SY
28	P-403-8.1	Runway Shoulder AC Surface Course (4-Inch Depth)	13482	SY
29	P-403-8.2	Runway Transition AC Base Course (7-Inch Depth)	5159	SY
30	P-501-8.1	Runway PCCP (16-Inch Depth)	21839	SY
31	P-603-5.1	Emulsified Asphalt Tack Coat	10318	SY
32	P-604-6.1 or P-605-5.1	Preformed Elastomeric or Silicone Seal (1/2-Inch Joint)	19068	LF
33	P-605-5.2	AC/AC or AC/PCCP Seal (3/8-Inch Joint)	3945	LF
34	P-620-5.1	Pavement Markings 100% Application (White)	14550	SF
35	P-620-5.2	Pavement Markings 100% Application (Yellow)	5,261	SF

PHOENIX-MESA GATEWAY AIRPORT RUNWAY 12R-30L RECONSTRUCTION - BASE BID (SCHEDULE I) 100% ESTIMATED QUANTITIES				
LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	AS-BUILT QTY.
ELECTRICAL				
36	L-100-6.2	Remove and Salvage Elevated Edge Light and Isolation Transformer, Remove Base Can	17	EA
37	L-100-6.3	Remove and Salvage Existing Runway Distance Remaining Sign and Isolation Transformer, Remove Concrete Sign Base	8	EA
38	L-100-6.4	Remove Existing Light Base / Junction Can	3	EA
39	L-100-6.5	Excavate and Remove Existing 4"x4"x5" Concrete Hand Hole	4	EA
40	L-100-6.6	Remove Existing Conductor, Conduit to Remain	10,020	LF
41	L-100-6.7	Excavate and Remove Existing Conduit and Conductor	7,800	LF
42	L-100-6.8	Excavate and Remove Existing Concrete Encased 4x4 Duct Bank (If Required - Utility Relocation Item)	600	LF
43	L-100-6.10	Temporary Airfield Lighting Cable Jumpers	1	LS
44	L-100-6.12	Excavate and Remove Existing Concrete Encased Duct Bank	30	LF
45	L-108-6.1	L-824, Type C, 1/C#8 AWG, 5kV Cable	19,730	LF
46	L-108-6.2	L-824, Type C, 2/C#8 AWG, 5kV Cable	9,920	LF
47	L-110-6.1	Single-way, 1-2" Conduit, Slurry Encased	10,350	LF
48	L-110-6.2	Single-way, 1-2" Conduit, Slurry Encased - Retrofit in Existing Asphalt	210	LF
49	L-110-6.3	Multiple-way, 2-2" Conduit, Slurry Encased	150	LF
50	L-110-6.5	Multiple-way, 4-4" Conduit, Slurry Encased	410	LF
51	L-110-6.6	Multiple-way, 4-4" Conduit, Slurry Encased - Retrofit in Existing Asphalt	50	LF
52	L-110-6.8	Multiple-way, 4-4" Conduit, Concrete Encased - (If Required - Utility Relocation Item)	600	LF
53	L-115-6.1	New 4"x4"x4" Aircraft Rated Handhole and Hatch w/ Spring Assisted Opening	2	EA
54	L-115-6.2	New L-867E (24" DIA) Junction Can w/ Blank Cover	7	EA
55	L-125-6.1	Install Existing L-861 Runway Edge/Threshold Light and Isolation Transformer on Existing L-867 Base with New Bolts, Gasket and Lamp	2	EA
56	L-125-6.2	Install Existing Runway Edge/Threshold Light and Isolation Transformer on New L-867 Base with New Bolts, Gasket and Lamp	15	EA
57	L-125-6.3	New Size 4, L-858B(L) Runway Distance Remaining Sign and Isolation Transformer on New Concrete Sign Base	8	EA
58	L-125-6.4	Install Temporary LED L-861E(L) Runway Threshold Lights (11), Isolation Transformers and Cable Jumpers	1	EA

PHOENIX-MESA GATEWAY AIRPORT RUNWAY 12R-30L RECONSTRUCTION - ADD ALT No.1 (SCHEDULE II) 100% ESTIMATED QUANTITIES				
LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	AS-BUILT QTY.
CIVIL				
1	SP 80.01.1	(DEDUCT) Rip Rap with Filter Fabric (D50-9-Inches, 24-Inch Depth)	(111)	SY
2	SP 80.02.1	(DEDUCT) Concrete Spillway	(1)	LS
3	P-101-5.1	(DEDUCT) Sawcut Pavement Section (+) 9" PCCP, 2" AC, 7" PCCP	(300)	LF
4	P-101-5.2	(DEDUCT) Remove Pavement Section PCCP (+) 9" PCCP, 2" AC, 7" PCCP	(9,156)	SY
5	P-101-5.6	(DEDUCT) Sawcut AC Pavement (+) 4" Depth	(665)	LF
6	P-101-5.7	(DEDUCT) Remove AC Pavement (+) 4" Depth	(4,312)	SY
7	P-101-5.8	(DEDUCT) Sawcut Concrete Drainage Spillway (+) 3" Depth	(20)	LF
8	P-101-5.9	(DEDUCT) Remove Concrete Drainage Spillway (+) 3" Depth	(50)	SY
9	P-101-5.10	(DEDUCT) Sawcut AC Pavement (+) 3" Depth	(45)	LF
10	P-101-5.11	(DEDUCT) Remove AC Pavement (+) 3" Depth	(27)	SY
11	P-154-5.1	(DEDUCT) Subbase Course (10-Inch Depth)	(4,325)	SY
12	P-155-8.1	(DEDUCT) Lime-Treated Subgrade (8-Inch Depth)	(13,484)	SY
13	P-208-5.1	(DEDUCT) Aggregate Base Course - Stabilized Shoulder (4-Inch Depth)	(642)	SY
14	P-209-5.1	(DEDUCT) Aggregate Base Course (8-Inch Depth)	(4,325)	SY
15	P-304-8.1	(DEDUCT) Cement-Treated Base Course (6-Inch Depth)	(4,000)	SY
16	P-304-8.2	(DEDUCT) Cement-Treated Base Course (Variable Depth, 6-Inches to 16.5-Inches)	(5,159)	SY
17	P-401-8.1	(DEDUCT) Runway Transition AC Surface Course (4-Inch Depth)	(5,159)	SY
18	P-403-8.1	(DEDUCT) Runway Shoulder AC Surface Course (4-Inch Depth)	(4,325)	SY
19	P-403-8.2	(DEDUCT) Runway Temporary AC Base Course (7-Inch Depth)	(5,159)	SY
20	P-501-8.1	(DEDUCT) Runway PCCP (16-Inch Depth)	(4,000)	SY
21	P-603-5.1	(DEDUCT) Emulsified Asphalt Tack Coat	(10,318)	SY
22	SP 50.02.2	Location of Underground Utilities (Schedule II)	6	EA
23	SP 50.07.2	Underground Utility Removal (Schedule II)	400	LF
24	SP 60.04.2	Airfield Safety and Security (Schedule II)	1	LS
25	SP 80.01.01	Rip Rap with Filter Fabric (D50-9-Inches, 24-Inch Depth)	112	SY
26	SP 80.02.01	Concrete Spillway	1	LS
27	C-100-14.2	Contractor Quality Control Program (CQCP) (Schedule II)	1	LS
28	C-102-5.2	Storm Water Pollution Prevention Plan (Schedule II)	1	LS
29	C-105-6.2	Mobilization (Schedule II)	1	LS
30	P-101-5.1	Sawcut Pavement Section (+) 9" PCCP, 2" AC, 7" PCCP	300	LF
31	P-101-5.2	Remove Pavement Section PCCP (+) 9" PCCP, 2" AC, 7" PCCP	31,826	SY
32	P-101-5.5	Remove Shoulder Stabilization (+) 4" Depth	614	SY
33	P-101-5.6	Sawcut AC Pavement (+) 4" Depth	1,366	LF
34	P-101-5.7	Remove AC Pavement (+) 4" Depth	13,107	SY
37	P-101-5.10	Sawcut AC Pavement (+) 3" Depth	470	LF
38	P-101-5.11	Remove AC Pavement (+) 3" Depth	3,594	SY
39	P-101-5.12	Sawcut PCCP (9" to 11" Depth)	300	LF
40	P-101-5.13	Remove PCCP (9" to 11" Depth)	1,489	SY
41	P-101-5.21	Sawcut AC Pavement (14" Depth)	300	LF
42	P-101-5.22	Remove AC Pavement (14" Depth)	1,154	SY
43	P-152-4.1	Unclassified Excavation	1	LS
44	P-152-4.2	Over-Excavation & Replacement of Unsuitable Materials, Backfill & Compaction	4,752	CY
45	P-154-5.1	Subbase Course (10-Inch Depth)	13,178	SY
46	P-155-8.1	Lime-Treated Subgrade (8-Inch Depth)	47,520	SY

PHOENIX-MESA GATEWAY AIRPORT RUNWAY 12R-30L RECONSTRUCTION - ADD ALT No.1 (SCHEDULE II) 100% ESTIMATED QUANTITIES				
LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	AS-BUILT QTY.
47	P-208-5.1	Aggregate Base Course - Stabilized Shoulder (4-Inch Depth)	2,715	SY
48	P-209-5.1	Aggregate Base Course (8-Inch Depth)	13,178	SY
49	P-304-8.1	Cement-Treated Base Course (6-Inch Depth)	29,759	SY
50	P-304-8.2	Cement-Treated Base Course (Variable Depth, 6-Inches to 16.5-Inches)	4,583	SY
51	P-401-8.1	Runway Transition AC Surface Course (4-Inch Depth)	4,583	SY
52	P-403-8.1	Runway Shoulder AC Surface Course (4-Inch Depth)	13,178	SY
53	P-403-8.2	Runway Transition AC Base Course (7-Inch Depth)	4,583	SY
54	P-501-8.1	Runway PCCP (16-Inch Depth)	27,334	SY
55	P-501-8.2	Taxiway PCCP (16-Inch Depth)	2,425	SY
56	P-603-5.1	Emulsified Asphalt Tack Coat	9,166	SY
57	P-604-6.1 or P-605-5.1	Preformed Elastomeric or Silicone Seal (1/2-Inch Joint)	23,155	LF
58	P-604-6.2	Preformed Elastomeric Seal (1-3/4-Inch Joint)	521	LF
59	P-605-5.2	AC/AC or AC/PCCP Seal (3/8-Inch Joint)	2,630	LF
60	P-620-5.1	Pavement Markings 100% Application (White)	11,249	SF
61	P-620-5.2	Pavement Markings 100% Application (Yellow)	5,465	SF
ELECTRICAL				
62	L-100-6.1	Remove and Salvage Elevated Edge / Threshold Light and Isolation Transformer, Base Can to Remain, Install Plywood Cover	4	EA
63	L-100-6.2	Remove and Salvage Elevated Runway / Taxiway Edge Light and Isolation Transformer, Remove Base Can	24	EA
64	L-100-6.5	Excavate and Remove Existing 4"x4"x5" Concrete Hand Hole	2	EA
65	L-100-6.6	Remove Existing Conductor, Conduit to Remain	1,580	LF
66	L-100-6.7	Excavate and Remove Existing Conduit and Conductor	3,570	LF
67	L-100-6.10	Temporary Airfield Lighting Cable Jumpers	1	LS
68	L-100-6.12	Excavate and Remove Existing Concrete Encased Duct Bank	275	LF
69	L-108-6.1	L-824, Type C, 1/C#8 AWG, 5kV Cable	5,430	LF
70	L-108-6.2	L-824, Type C, 2/C#8 AWG, 5kV Cable	1,180	LF
71	L-110-6.1	Single-way, 1-2" Conduit, Slurry Encased	3,070	LF
72	L-110-6.2	Single-way, 1-2" Conduit, Slurry Encased - Retrofit in Existing Asphalt	560	LF
73	L-110-6.5	Multiple-way, 4-4" Conduit, Slurry Encased	195	LF
74	L-110-6.6	Multiple-way, 4-4" Conduit, Slurry Encased - Retrofit in Existing Asphalt	110	LF
75	L-110-6.7	Multiple-way, 4-4" Conduit, Concrete Encased	280	LF
76	L-115-6.1	New 4"x4"x4" Aircraft Rated Handhole and Hatch w/ Spring Assisted Opening	2	EA
77	L-125-6.1	Install Existing L-861 Runway Edge/Threshold Light and Isolation Transformer on Existing L-867 Base with New Bolts, Gasket and Lamp	4	EA
78	L-125-6.2	Install Existing Runway Edge/Threshold Light and Isolation Transformer on New L-867 Base with New Bolts, Gasket and Lamp	14	EA
79	L-125-6.10	Install Existing Taxiway Edge Light and Isolation Transformer on New L-867 Base with New Bolts, Gasket and Lamp	10	EA

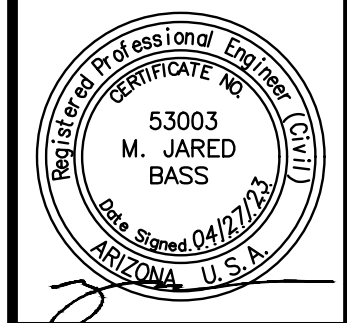
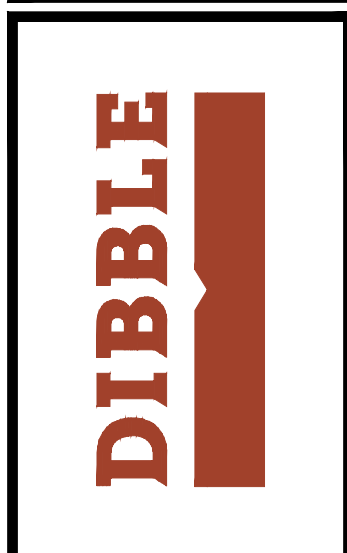
EARTHWORK QUANTITIES

NOTE: THE FOLLOWING RAW, UNADJUSTED, IN-PLACE EARTHWORK QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES.

BASE BID (SCHEDULE I)	BASE BID (SCHEDULE I) & ADD ALT 1 (SCHEDULE II)
13,255 CY CUT	27,820 CY CUT
3,086 CY FILL	3,645 CY FILL



REV	DATE	DESCRIPTION

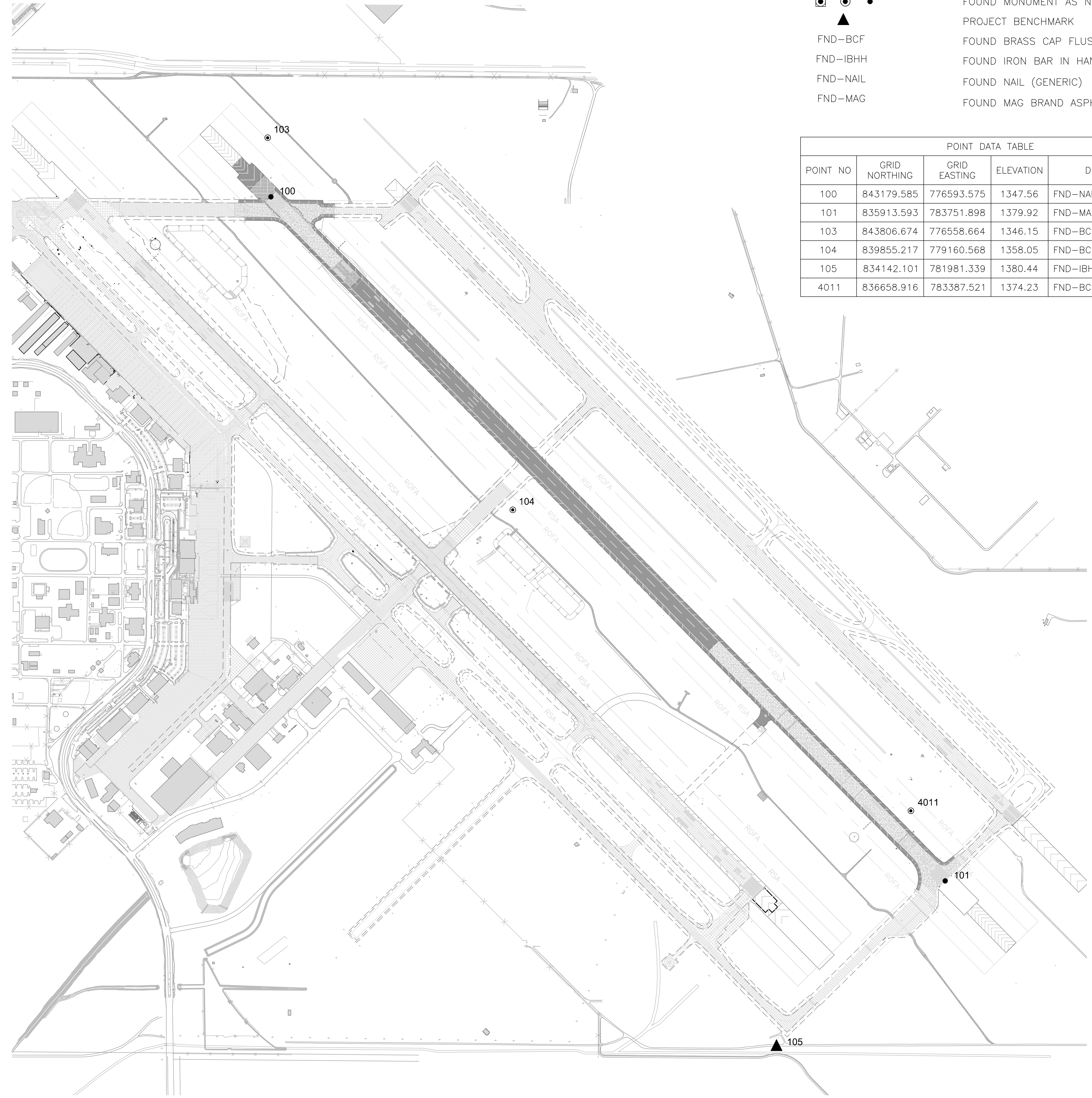


DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-1-X-GNRL-BB



RUNWAY '12R-30L' RECONSTRUCTION OVERALL QUANTITIES

FILE:\PROJECTS\2020\1020023\2302 PWGAA RW 12R-30\CAD\2023\2303-CTRL.dwg DATE: April 26, 2023 TIME: 11:57 PM BY: john_bowling

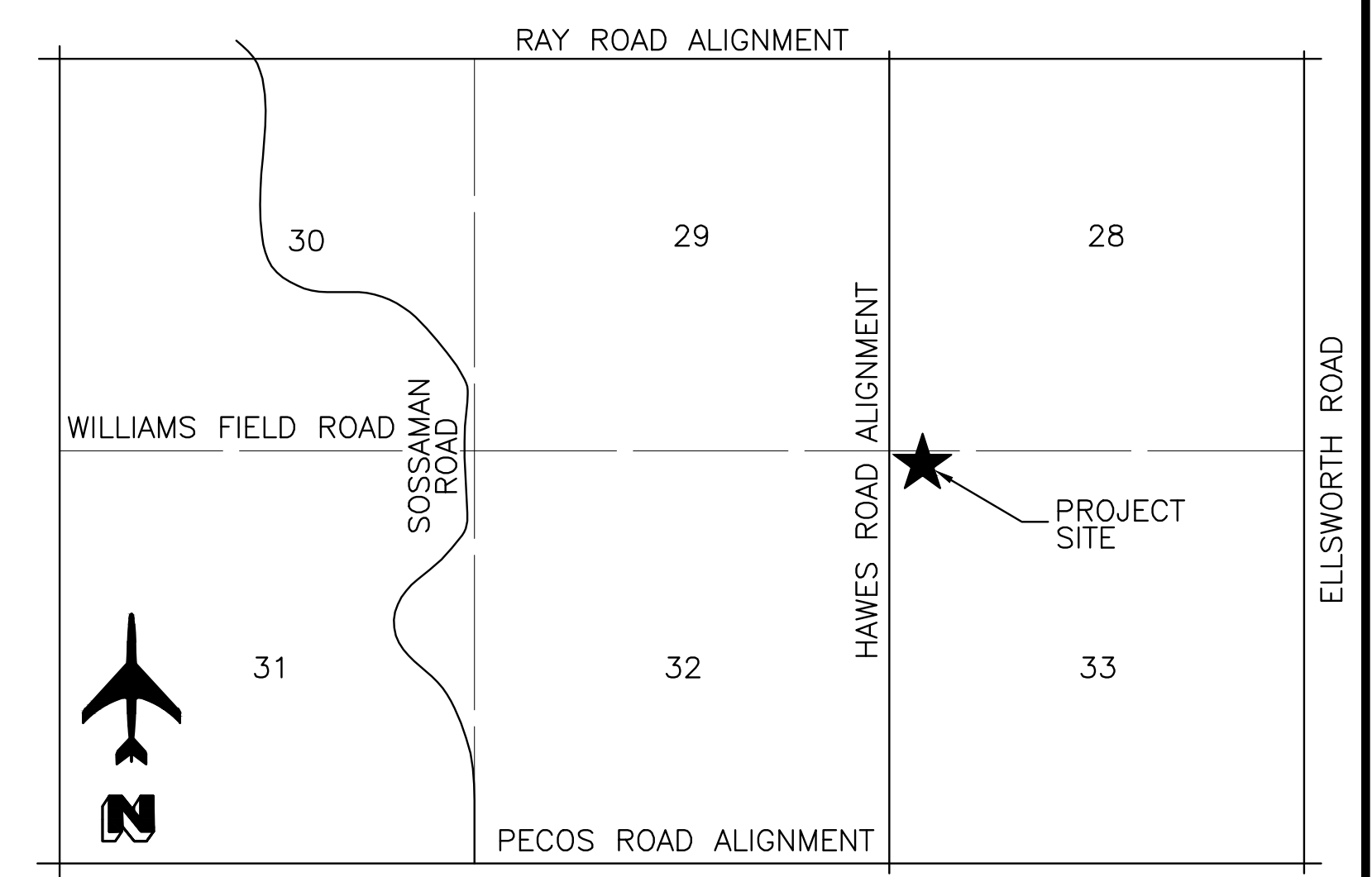


LEGEND

◻	FOUND MONUMENT AS NOTED
●	PROJECT BENCHMARK
▲	FOUND BRASS CAP FLUSH
FND-BCF	FOUND IRON BAR IN HANDHOLE
FND-IBHH	FOUND NAIL (GENERIC)
FND-NAIL	FOUND MAG BRAND ASPHALT NAIL
FND-MAG	

POINT DATA TABLE

POINT NO	GRID NORTHING	GRID EASTING	ELEVATION	DESCRIPTION
100	843179.585	776593.575	1347.56	FND-NAIL 265
101	835913.593	783751.898	1379.92	FND-MAG 268
103	843806.674	776558.664	1346.15	FND-BCF 402
104	839855.217	779160.568	1358.05	FND-BCF 401
105	834142.101	781981.339	1380.44	FND-IBHH 400
4011	836658.916	783387.521	1374.23	FND-BCF WGASC TWA D5



VICINITY MAP
SECTIONS 28 THRU 33
T1S, R7E
NOT TO SCALE

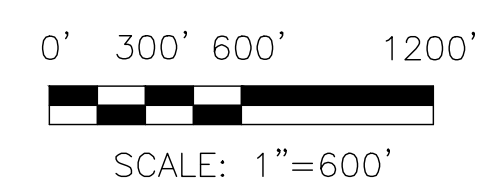
SURVEYOR'S NOTES

- COORDINATES WERE VERIFIED IN THE FIELD USING REAL TIME KINEMATIC GPS OBSERVATIONS RELATIVE TO PUBLISHED CONTROL POINTS.
- SURVEYED DURING THE MONTH OF AUGUST 2022.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROLS IN THE FIELD PRIOR TO CONSTRUCTION.
- PROJECT METADATA:
UNITS:
COORDINATES, DISTANCES AND ELEVATIONS ARE SHOWN IN US SURVEY FEET.

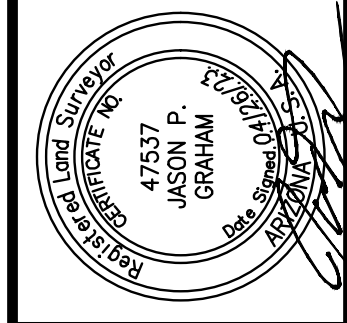
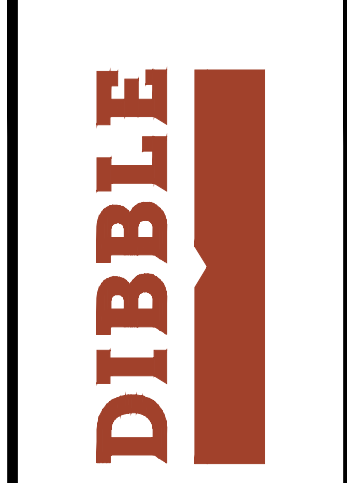
HORIZONTAL DATUM (BASIS OF BEARINGS):
NAD83 (2011 EPOCH) ARIZONA CENTRAL ZONE

VERTICAL DATUM:
NAVD '88

▲ PROJECT BENCHMARK:
POINT NUMBER 105
FOUND IRON BAR IN HANDHOLE *AIRPORT NUMBER #400*:
GRID NORTHING = 834142.10
GRID EASTING = 781981.34
NAVD '88 ELEVATION = 1380.44
- THE COORDINATES PRESENTED ARE SHOWN TO THREE DECIMAL PLACES FOR CALCULATION PURPOSES AND ARE NOT REPRESENTATIVE OF THE PRECISION OF THE SURVEY MEASUREMENTS
- THIS IS NOT A PROPERTY BOUNDARY SURVEY.



REV	DATE	DESCRIPTION



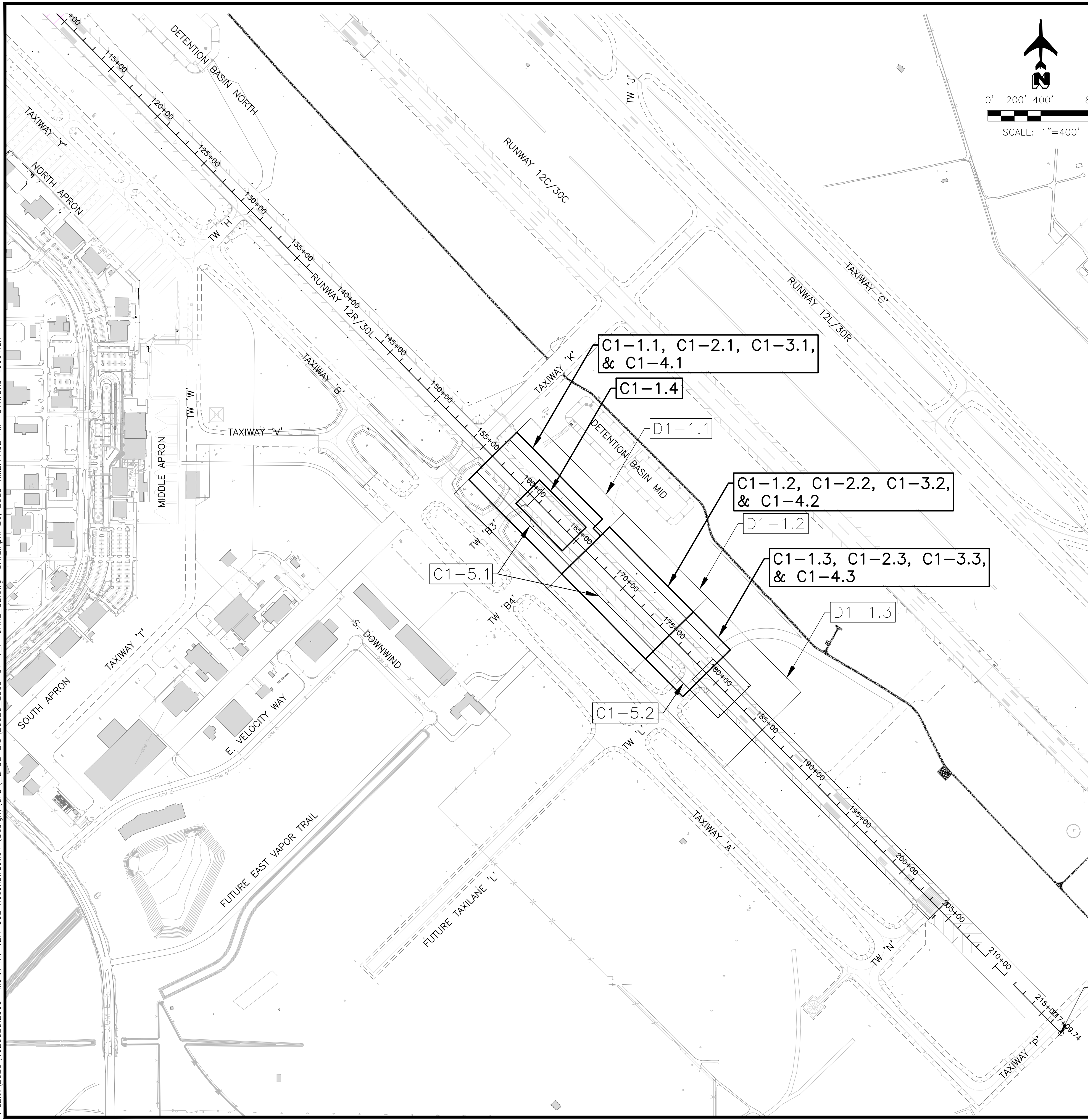
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023.2303-CTRL



RUNWAY '12R-30L' RECONSTRUCTION
SURVEY CONTROL PLAN

G1-1.7
SHEET NO.
8 OF 211

FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023-2303-G1-1-X-GNRL-BB.dwg DATE: April 26, 2023 TIME: 11:52 AM BY: travis.woodman



BASE BID SHEET INDEX		
SHT NO	SHT	SHEET TITLE
BASE BID: GENERAL		
9	G1-1.8	SHEET INDEX & SHEET LAYOUT PLAN
10	G1-1.9	PROJECT SITE PLAN
BASE BID: PHASING		
11	G1-2.1	CONSTRUCTION PHASE 1
BASE BID: TYPICAL SECTIONS		
12	G1-3.1	TYPICAL SECTIONS
13	G1-3.2	ASPHALT TRANSITION TYPICAL SECTIONS
BASE BID: DEMOLITION PLAN		
14	D1-1.1	STA 156+00 TO STA 166+00
15	D1-1.2	STA 166+00 TO STA 175+00
16	D1-1.3	STA 175+00 TO STA 184+00
BASE BID: PAVING PLAN & PROFILE		
17	C1-1.1	STA 156+00 TO STA 166+00
18	C1-1.2	STA 166+00 TO STA 175+00
19	C1-1.3	STA 175+00 TO STA 179+00
20	C1-1.4	ASPHALT TRANSITION SPOT ELEVATIONS
BASE BID: GRADING & DRAINAGE PLAN		
21	C1-2.1	STA 156+00 TO STA 166+00
22	C1-2.2	STA 166+00 TO STA 175+00
23	C1-2.3	STA 175+00 TO STA 179+00
BASE BID: PAVEMENT ELEVATION PLAN		
24	C1-3.1	STA 156+00 TO STA 166+00
25	C1-3.2	STA 166+00 TO STA 175+00
26	C1-3.3	STA 175+00 TO STA 179+00
BASE BID: JOINT LAYOUT PLAN		
27	C1-4.1	STA 156+00 TO STA 166+00
28	C1-4.2	STA 166+00 TO STA 175+00
29	C1-4.3	STA 175+00 TO STA 179+00
30	C1-4.4	PCCP JOINT DETAILS
BASE BID: PAVEMENT MARKING PLAN		
31	C1-5.1	STA 156+00 TO STA 175+00
32	C1-5.2	STA 175+00 TO STA 182+00
33	C1-5.3	PAVEMENT MARKING DETAILS
34	C1-5.4	PAVEMENT MARKING DETAILS
BASE BID: STORMWATER POLLUTION PROTECTION PLAN		
35	C1-6.1	STORMWATER POLLUTION PROTECTION PLAN
36	C1-6.2	STORMWATER POLLUTION PROTECTION DETAILS
BASE BID: BORING		
37	GT1-1.1	BORING LOCATION MAP & LOGS
38	GT1-1.2	BORING LOGS
BASE BID: ELECTRICAL		
39	E1-1.1	ELECTRICAL LEGEND
40	E1-1.2	ELECTRICAL NOTES
41	E1-2.1	AIRFIELD ELECTRICAL DEMOLITION
42	E1-2.2	AIRFIELD ELECTRICAL DEMOLITION
43	E1-2.3	AIRFIELD ELECTRICAL DEMOLITION
44	E1-2.4	AIRFIELD ELECTRICAL DEMOLITION
45	E1-2.5	AIRFIELD ELECTRICAL DEMOLITION
46	E1-2.6	AIRFIELD ELECTRICAL DEMOLITION
47	E1-2.7	AIRFIELD ELECTRICAL DEMOLITION
48	E1-3.1	AIRFIELD ELECTRICAL INSTALLATION
49	E1-3.2	AIRFIELD ELECTRICAL INSTALLATION
50	E1-3.3	AIRFIELD ELECTRICAL INSTALLATION
51	E1-3.4	AIRFIELD ELECTRICAL INSTALLATION
52	E1-3.5	AIRFIELD ELECTRICAL INSTALLATION
53	E1-3.6	AIRFIELD ELECTRICAL INSTALLATION
54	E1-3.7	AIRFIELD ELECTRICAL INSTALLATION
55	E1-4.1	AIRFIELD GUIDANCE SIGN SCHEDULE
56	E1-5.1	CONDUIT DUCTBANK DETAILS
57	E1-5.2	GROUNDING DETAILS
58	E1-5.3	RUNWAY DISTANCE REMAINING SIGN CONCRETE BASE & SKV SPLICE DETAIL
59	E1-5.4	ELEVATED EDGE LIGHT FIXTURE DETAILS
60	E1-5.5	4'X4' HANDHOLE DETAILS
61	E1-5.6	JUNCTION CAN DETAILS
62	E1-5.7	PAPI INSTALLATION DETAILS
63	E1-5.8	PAPI CRITERIA SCHEDULES
64	E1-5.9	TEMPORARY THRESHOLD DETAILS
65	E1-5.10	WINDCONE AND RUNWAY GUARD LIGHT INSTALLATION DETAILS
66	E1-6.1	EQUIPMENT DATA TABLES

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 53003
 M. JARED BASS
 License No. 04187672
 ARIZONA, U.S.A.

DATE: 4/26/2023

DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 20023-2303-G1-1-X-GNRL-BB

Phoenix Area
Gateway
 Airport

**RUNWAY '12R-30L' RECONSTRUCTION
 BASE BID**

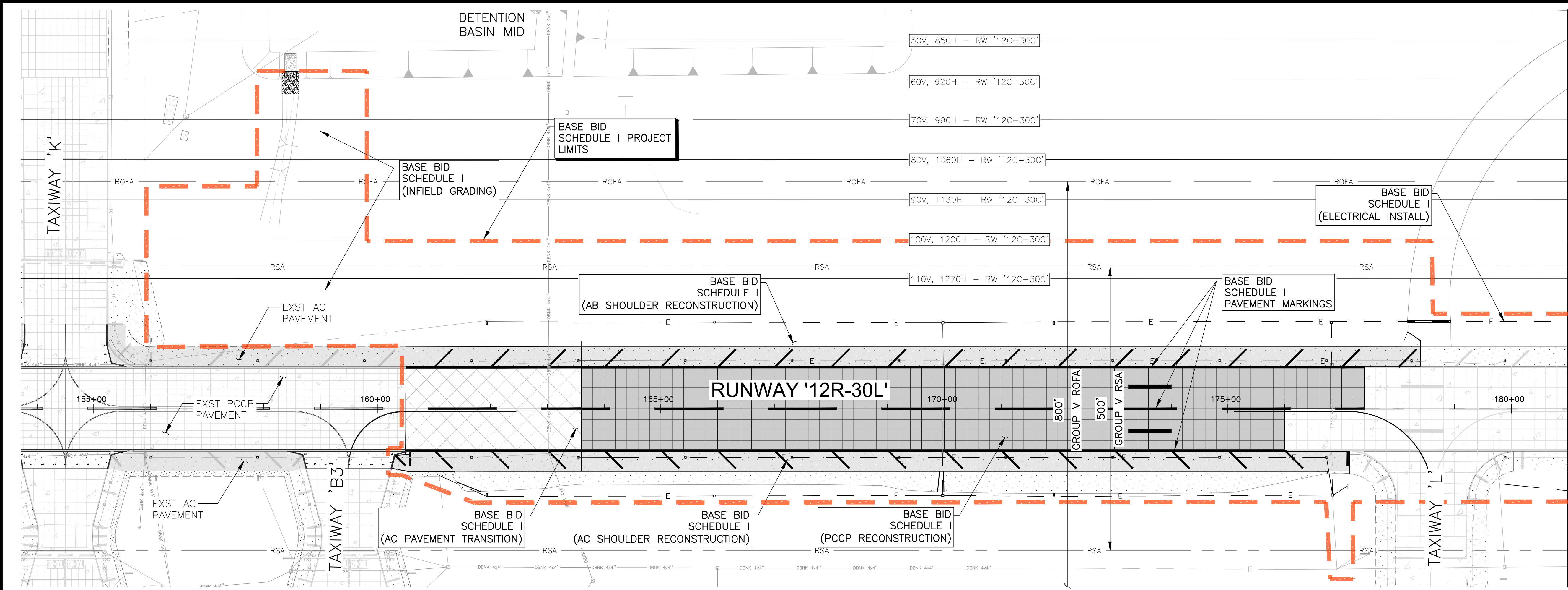
SHEET INDEX & SHEET LAYOUT PLAN

G1-1.8

SHEET NO.
 9 OF 211

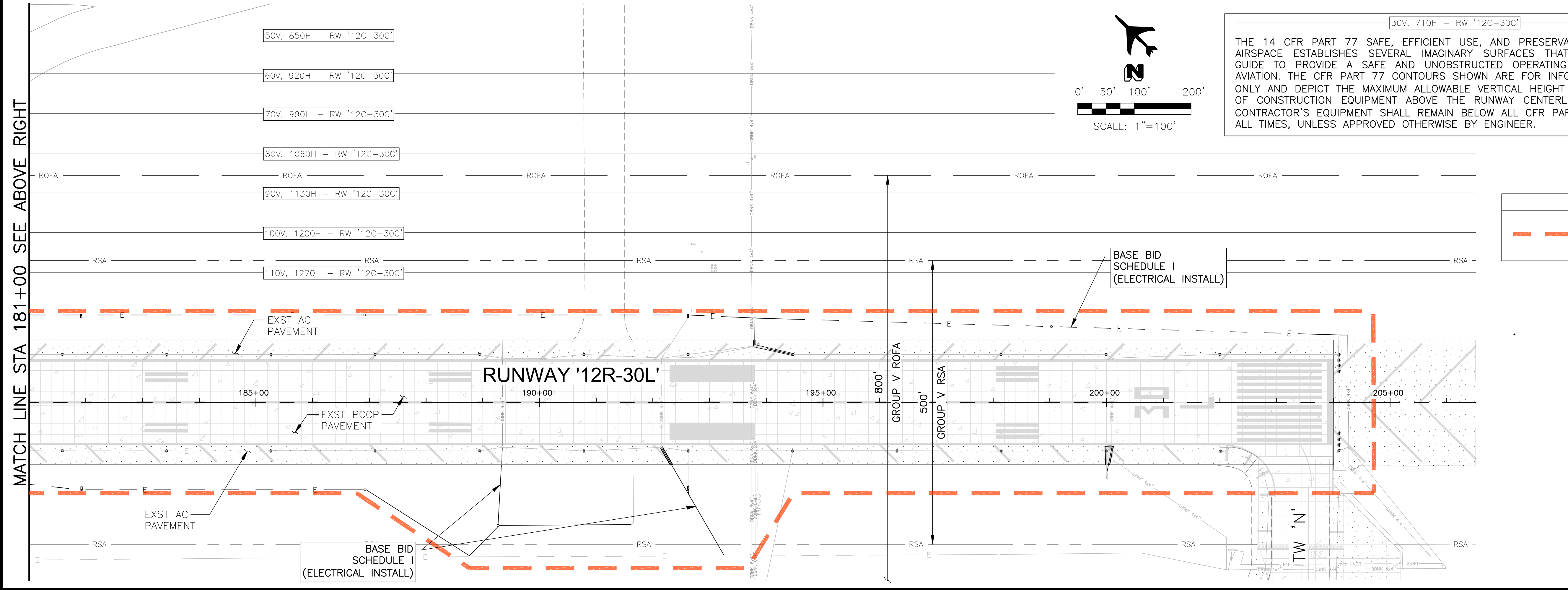


FILE: 2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-G1-1-X-GNRL-BB.dwg DATE: April 26, 2023 TIME: 11:52 AM BY: travis.woodman



MATCH LINE STA 181+00 SEE BELOW LEFT

SCALE: 1"=100'



SCALE: 1"=100'

THE 14 CFR PART 77 SAFE, EFFICIENT USE, AND PRESERVATION OF NAVIGABLE AIRSPACE ESTABLISHES SEVERAL IMAGINARY SURFACES THAT ARE USED AS A GUIDE TO PROVIDE A SAFE AND UNOBSTRUCTED OPERATING ENVIRONMENT FOR AVIATION. THE CFR PART 77 CONTOURS SHOWN ARE FOR INFORMATION PURPOSES ONLY AND DEPICT THE MAXIMUM ALLOWABLE VERTICAL HEIGHT (IN FEET, LABEL V) OF CONSTRUCTION EQUIPMENT ABOVE THE RUNWAY CENTERLINE ELEVATION. THE CONTRACTOR'S EQUIPMENT SHALL REMAIN BELOW ALL CFR PART 77 SURFACES AT ALL TIMES, UNLESS APPROVED OTHERWISE BY ENGINEER.

LEGEND

--- BASE BID SCHEDULE I PROJECT LIMITS

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
Certificate No.
53003
M. JARED
BASS
Issue Date: 04/26/22
Arizona, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-1_X-GNRL_BB

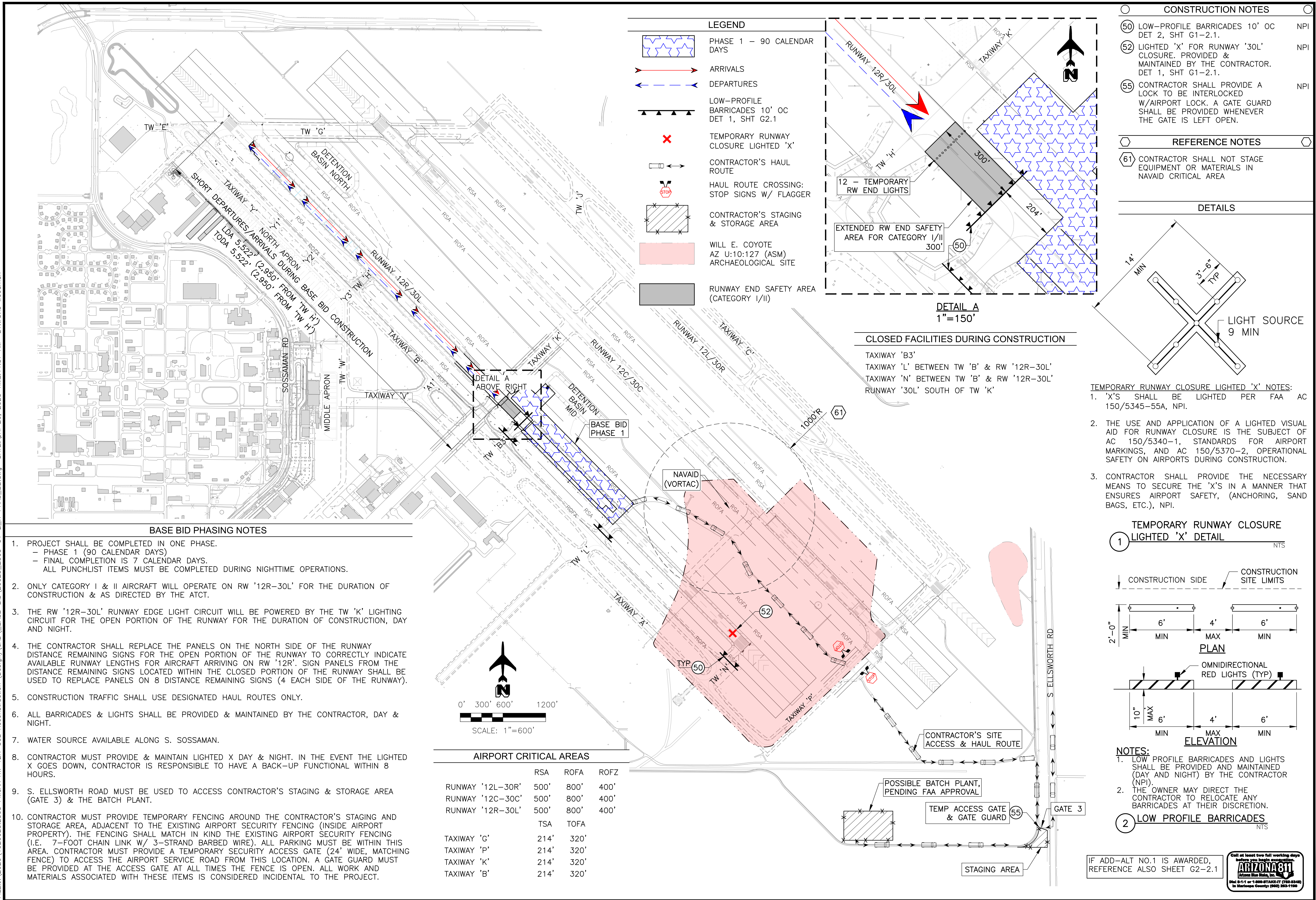


MATCH LINE STA 181+00 SEE ABOVE RIGHT

**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PROJECT SITE PLAN**

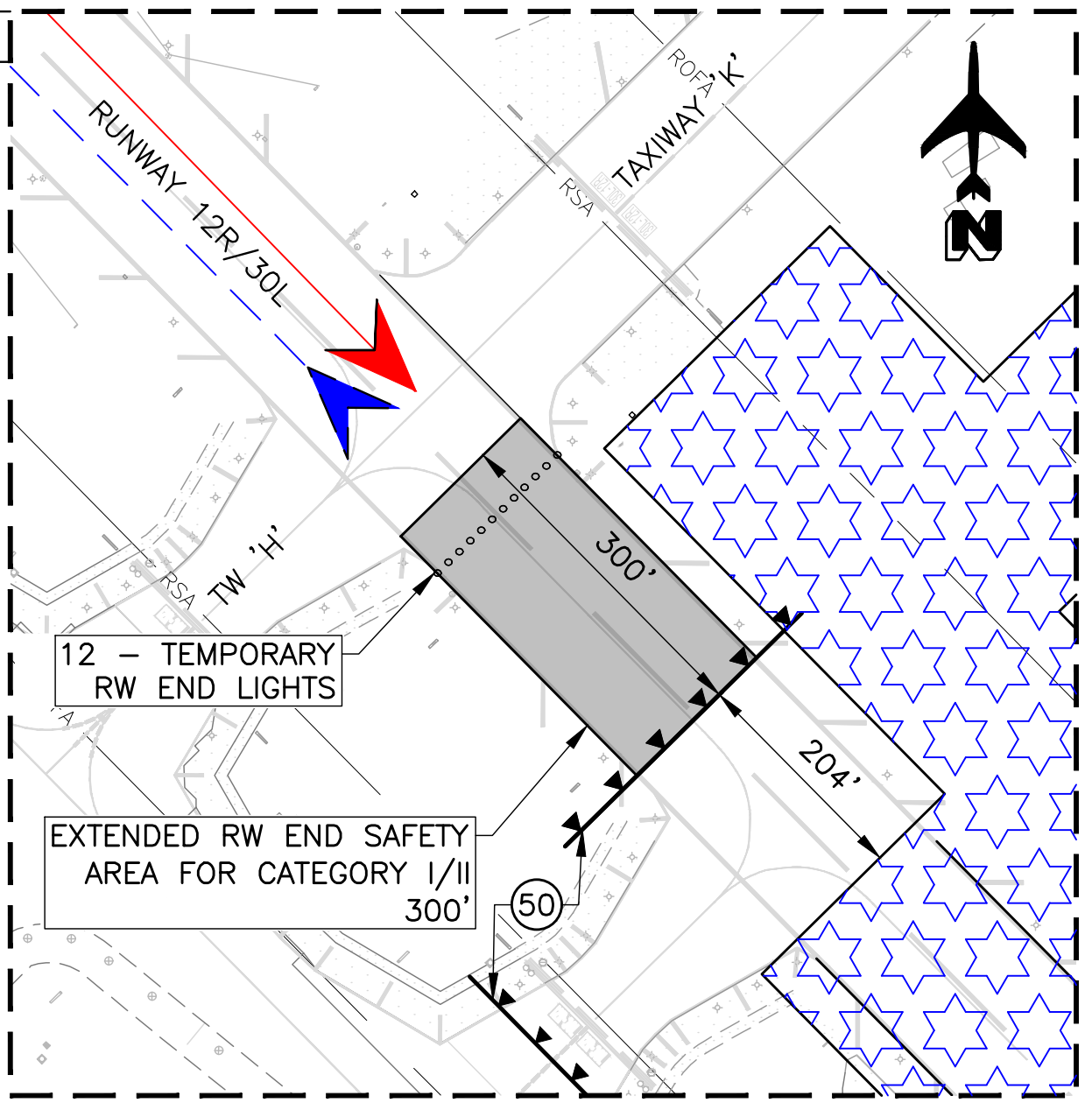


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LEGEND

- PHASE 1 - 90 CALENDAR DAYS
- ARRIVALS
- DEPARTURES
- LOW-PROFILE BARRICADES 10' OC DET 1, SHT G2.1
- TEMPORARY RUNWAY CLOSURE LIGHTED 'X'
- CONTRACTOR'S HAUL ROUTE
- HAUL ROUTE CROSSING: STOP SIGNS W/ FLAGGER
- CONTRACTOR'S STAGING & STORAGE AREA
- WILL E. COYOTE AZ U:10:127 (ASM) ARCHAEOLOGICAL SITE
- RUNWAY END SAFETY AREA (CATEGORY I/II)



CLOSED FACILITIES DURING CONSTRUCTION

- TAXIWAY 'B3'
- TAXIWAY 'L' BETWEEN TW 'B' & RW '12R-30L'
- TAXIWAY 'N' BETWEEN TW 'B' & RW '12R-30L'
- RUNWAY '30L' SOUTH OF TW 'K'

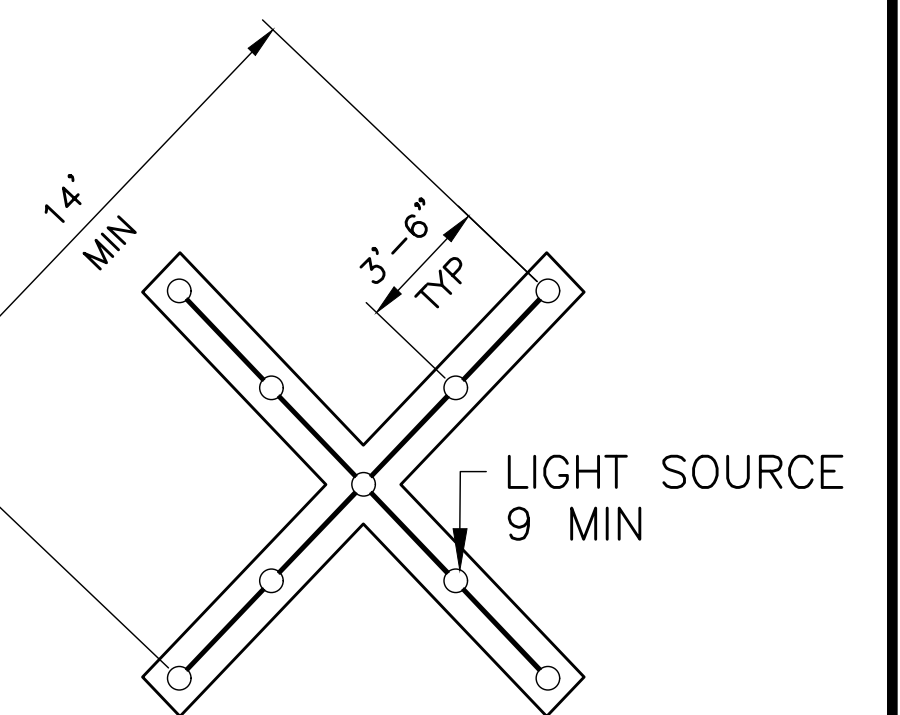
CONSTRUCTION NOTES

- 50 LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1. NPI
- 52 LIGHTED 'X' FOR RUNWAY '30L' CLOSURE. PROVIDED & MAINTAINED BY THE CONTRACTOR. DET 1, SHT G1-2.1. NPI
- 55 CONTRACTOR SHALL PROVIDE A LOCK TO BE INTERLOCKED W/AIRPORT LOCK. A GATE GUARD SHALL BE PROVIDED WHENEVER THE GATE IS LEFT OPEN. NPI

REFERENCE NOTES

- 61 CONTRACTOR SHALL NOT STAGE EQUIPMENT OR MATERIALS IN NAVAID CRITICAL AREA

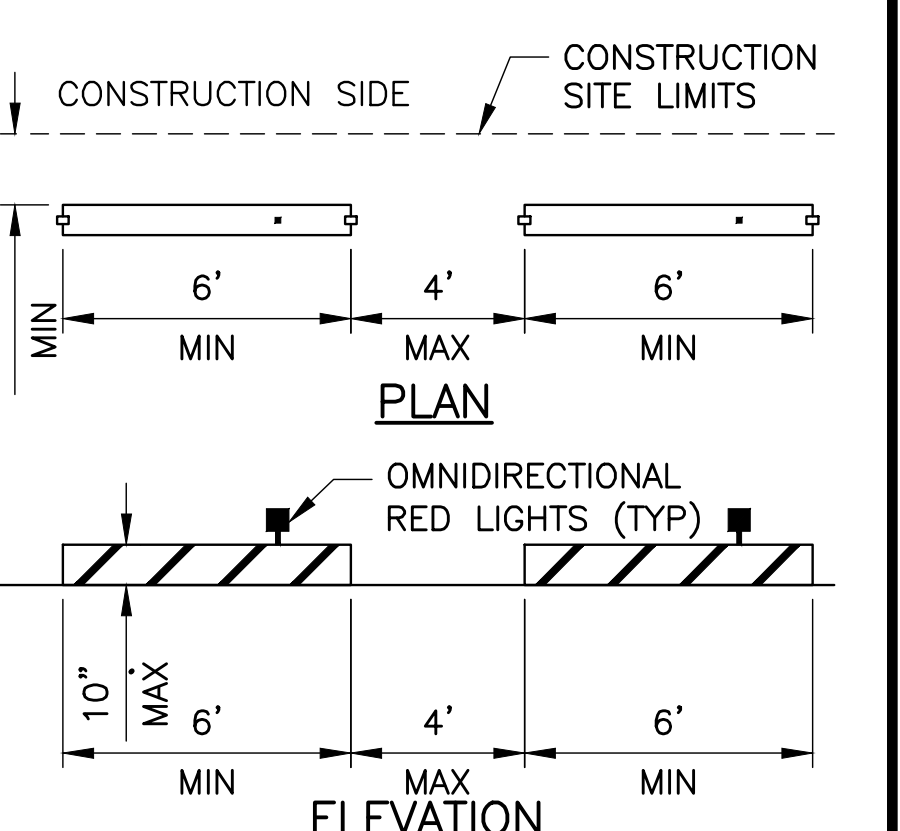
DETAILS



TEMPORARY RUNWAY CLOSURE LIGHTED 'X' NOTES:

1. 'X'S SHALL BE LIGHTED PER FAA AC 150/5345-55A, NPI.
2. THE USE AND APPLICATION OF A LIGHTED VISUAL AID FOR RUNWAY CLOSURE IS THE SUBJECT OF AC 150/5340-1, STANDARDS FOR AIRPORT MARKINGS, AND AC 150/5370-2, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE THE NECESSARY MEANS TO SECURE THE 'X'S IN A MANNER THAT ENSURES AIRPORT SAFETY, (ANCHORING, SAND BAGS, ETC.), NPI.

TEMPORARY RUNWAY CLOSURE LIGHTED 'X' DETAIL



- NOTES:**
1. LOW PROFILE BARRICADES AND LIGHTS SHALL BE PROVIDED AND MAINTAINED (DAY AND NIGHT) BY THE CONTRACTOR (NPI).
 2. THE OWNER MAY DIRECT THE CONTRACTOR TO RELOCATE ANY BARRICADES AT THEIR DISCRETION.

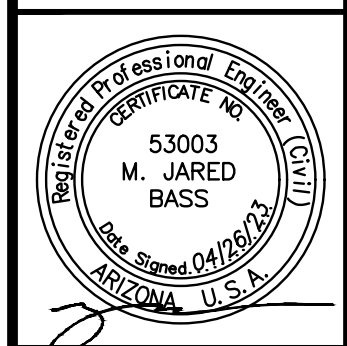
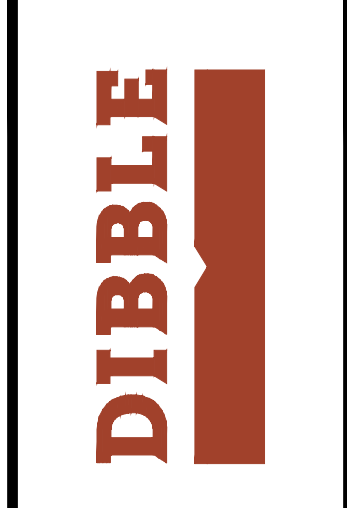
BASE BID PHASING NOTES

1. PROJECT SHALL BE COMPLETED IN ONE PHASE.
 - PHASE 1 (90 CALENDAR DAYS)
 - FINAL COMPLETION IS 7 CALENDAR DAYS.
 - ALL PUNCHLIST ITEMS MUST BE COMPLETED DURING NIGHTTIME OPERATIONS.
2. ONLY CATEGORY I & II AIRCRAFT WILL OPERATE ON RW '12R-30L' FOR THE DURATION OF CONSTRUCTION & AS DIRECTED BY THE ATCT.
3. THE RW '12R-30L' RUNWAY EDGE LIGHT CIRCUIT WILL BE POWERED BY THE TW 'K' LIGHTING CIRCUIT FOR THE OPEN PORTION OF THE RUNWAY FOR THE DURATION OF CONSTRUCTION, DAY AND NIGHT.
4. THE CONTRACTOR SHALL REPLACE THE PANELS ON THE NORTH SIDE OF THE RUNWAY DISTANCE REMAINING SIGNS FOR THE OPEN PORTION OF THE RUNWAY TO CORRECTLY INDICATE AVAILABLE RUNWAY LENGTHS FOR AIRCRAFT ARRIVING ON RW '12R'. SIGN PANELS FROM THE DISTANCE REMAINING SIGNS LOCATED WITHIN THE CLOSED PORTION OF THE RUNWAY SHALL BE USED TO REPLACE PANELS ON 8 DISTANCE REMAINING SIGNS (4 EACH SIDE OF THE RUNWAY).
5. CONSTRUCTION TRAFFIC SHALL USE DESIGNATED HAUL ROUTES ONLY.
6. ALL BARRICADES & LIGHTS SHALL BE PROVIDED & MAINTAINED BY THE CONTRACTOR, DAY & NIGHT.
7. WATER SOURCE AVAILABLE ALONG S. SOSSAMAN.
8. CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.
9. S. ELLSWORTH ROAD MUST BE USED TO ACCESS CONTRACTOR'S STAGING & STORAGE AREA (GATE 3) & THE BATCH PLANT.
10. CONTRACTOR MUST PROVIDE TEMPORARY FENCING AROUND THE CONTRACTOR'S STAGING AND STORAGE AREA, ADJACENT TO THE EXISTING AIRPORT SECURITY FENCING (INSIDE AIRPORT PROPERTY). THE FENCING SHALL MATCH IN KIND THE EXISTING AIRPORT SECURITY FENCING (I.E. 7-FOOT CHAIN LINK W/ 3-STRAND BARBED WIRE). ALL PARKING MUST BE WITHIN THIS AREA. CONTRACTOR MUST PROVIDE A TEMPORARY SECURITY ACCESS GATE (24' WIDE, MATCHING FENCE) TO ACCESS THE AIRPORT SERVICE ROAD FROM THIS LOCATION. A GATE GUARD MUST BE PROVIDED AT THE ACCESS GATE AT ALL TIMES THE FENCE IS OPEN. ALL WORK AND MATERIALS ASSOCIATED WITH THESE ITEMS IS CONSIDERED INCIDENTAL TO THE PROJECT.

AIRPORT CRITICAL AREAS

	RSA	ROFA	ROFZ
RUNWAY '12L-30R'	500'	800'	400'
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
	TSA	TOFA	
TAXIWAY 'G'	214'	320'	
TAXIWAY 'P'	214'	320'	
TAXIWAY 'K'	214'	320'	
TAXIWAY 'B'	214'	320'	

REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-2_X-PHAS_BB

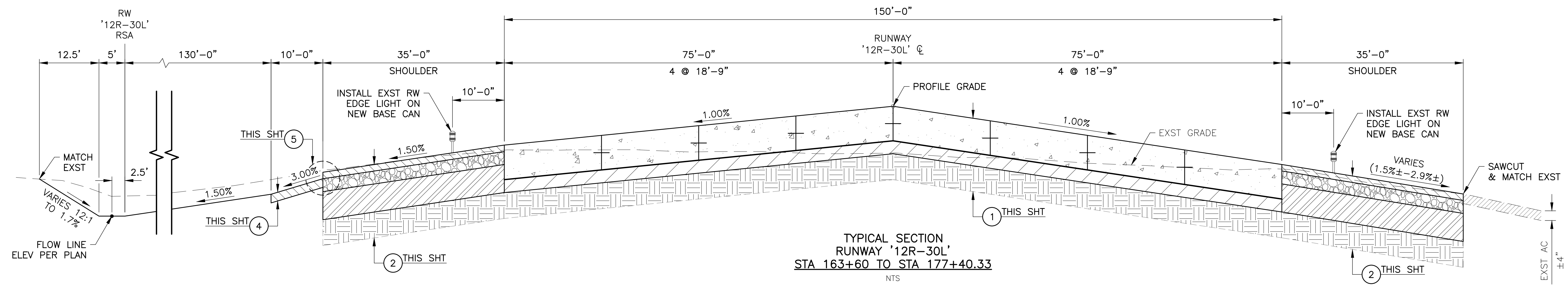


RUNWAY '12R-30L' RECONSTRUCTION BASE BID (SCH I) PHASING CONSTRUCTION PHASE 1

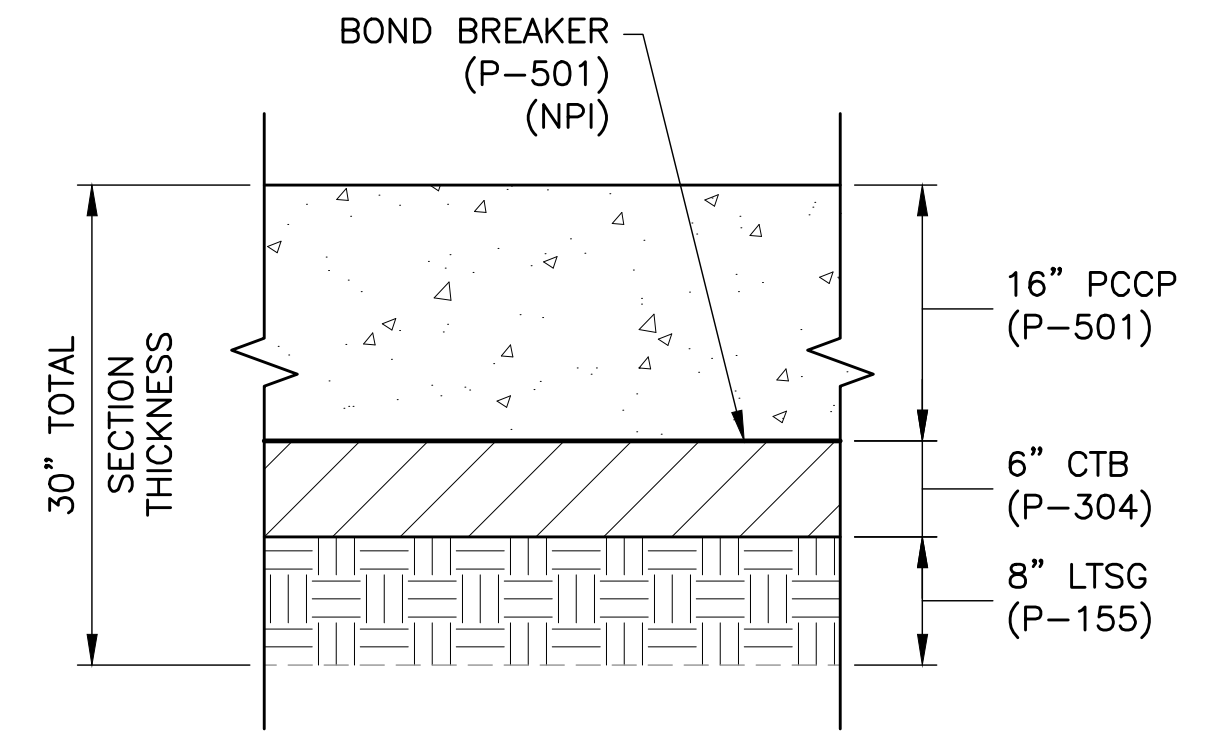
IF ADD-ALT NO.1 IS AWARDED, REFERENCE ALSO SHEET G2-2.1



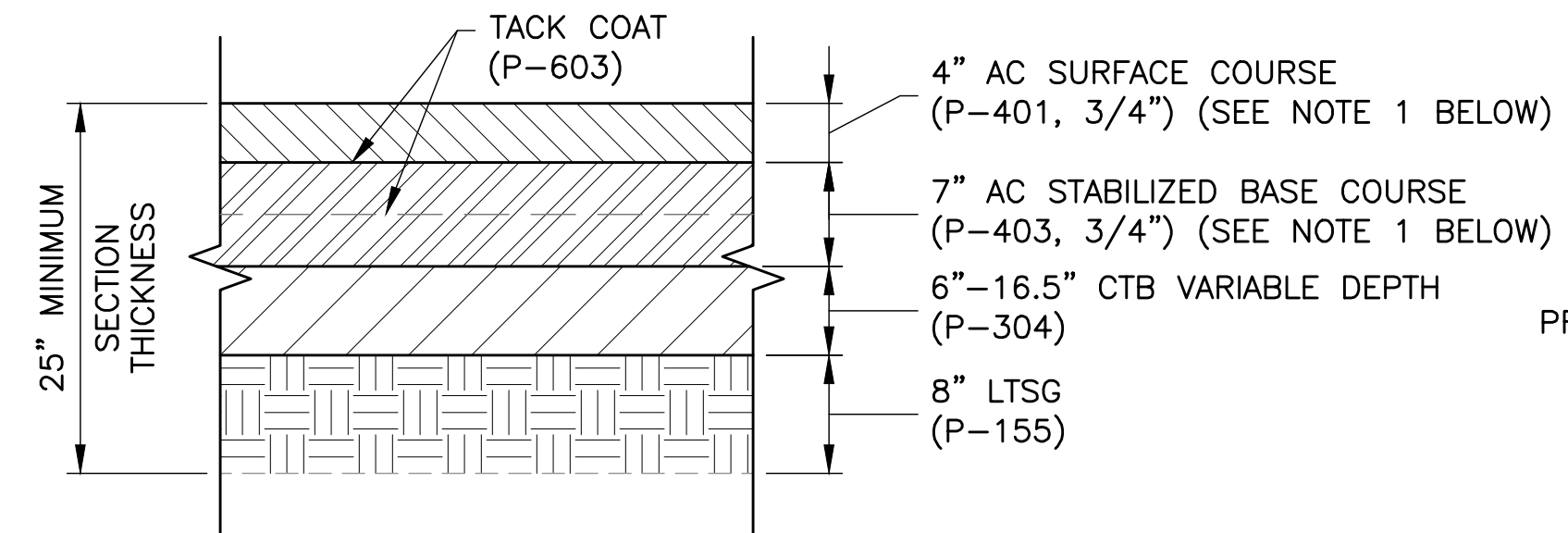
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TYPICAL SECTION
RUNWAY '12R-30L'
STA 163+60 TO STA 177+40.33
NTS

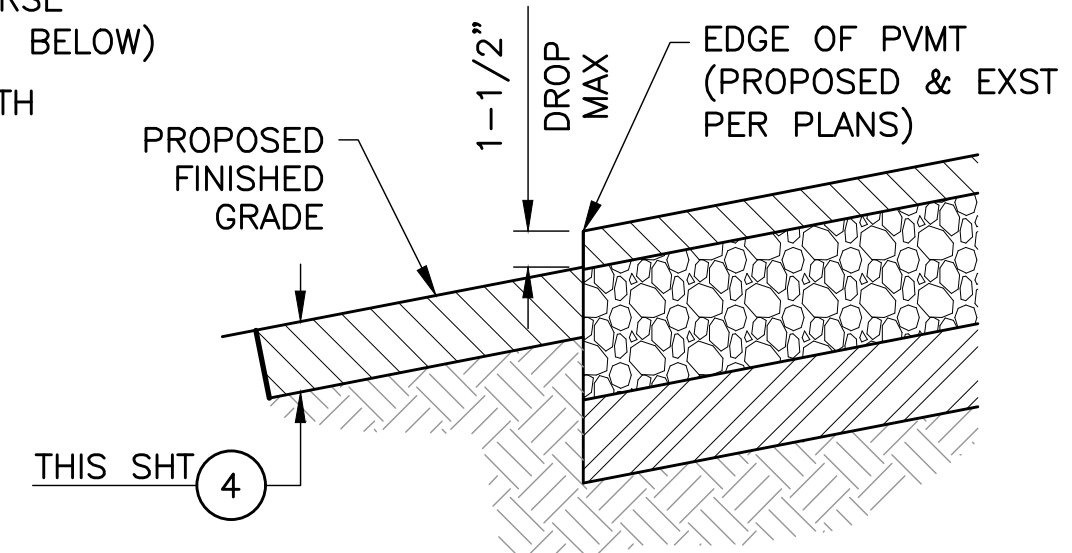


1 RUNWAY & TAXIWAY PCC PAVEMENT SECTION
NTS

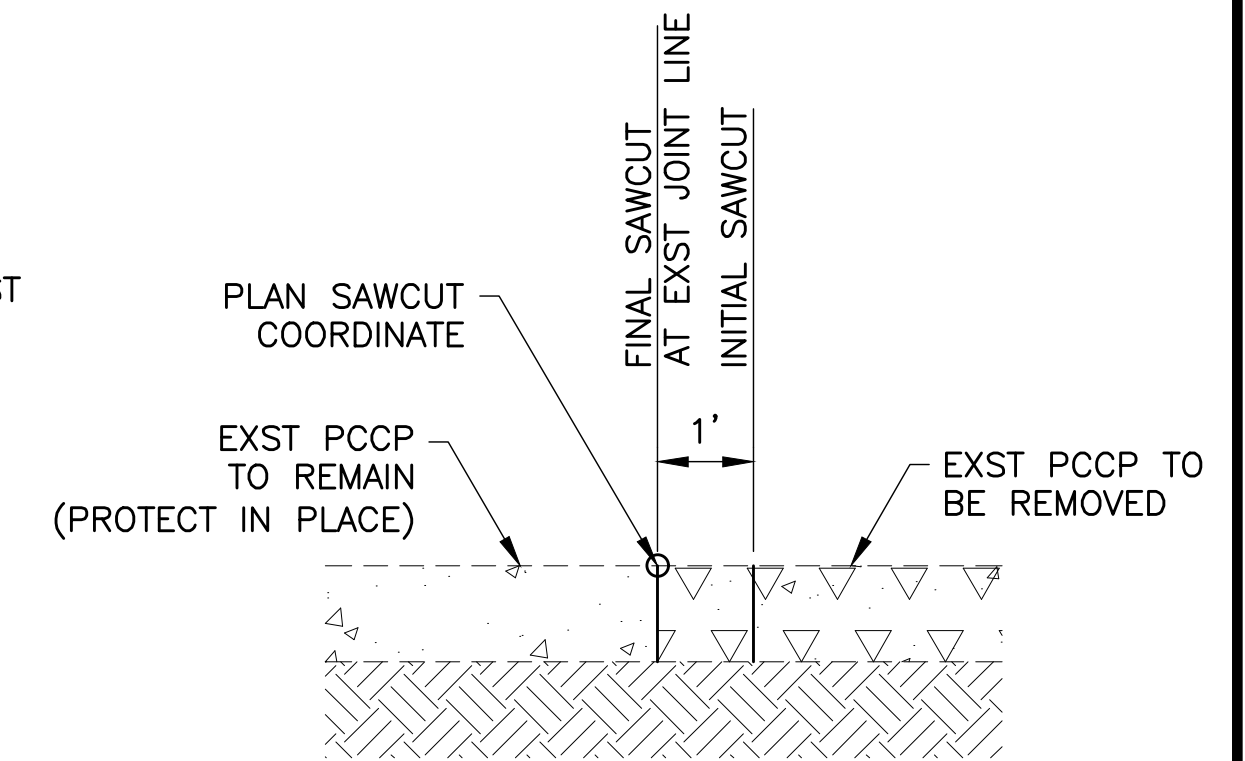


3 RUNWAY TRANSITION AC PAVEMENT SECTION
NTS

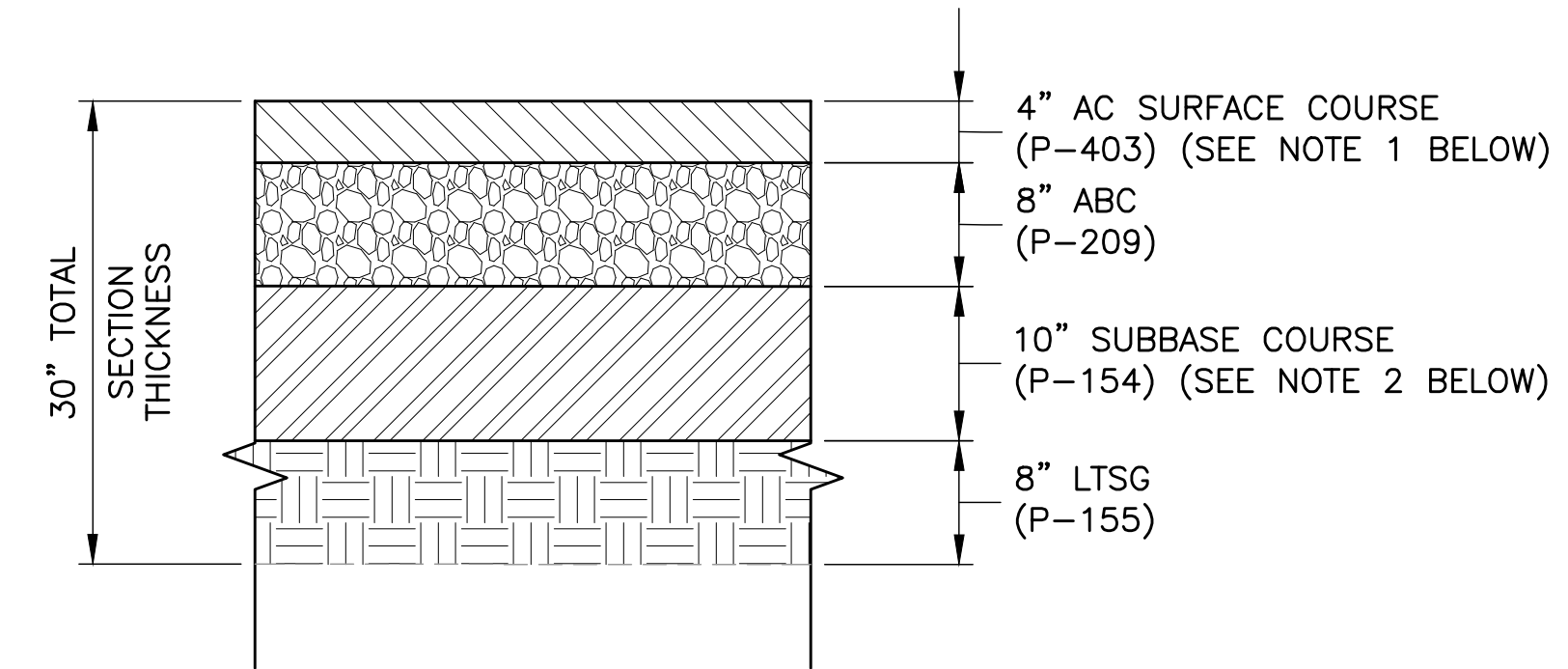
NOTE:
1. IF THE CONTRACTOR ELECTS TO PAVE ADDITIONAL LIFTS, THE ADDITIONAL APPLICATION OF TACK COAT (P-603) IS REQUIRED & WILL BE CONSIDERED INCIDENTAL TO THE PROJECT & THOSE COSTS SHALL BE ON THE CONTRACTOR.
*REFER TO AC TRANSITION PROFILE ON SHEET G1-3.2



5 EDGE DROP DETAIL
NTS

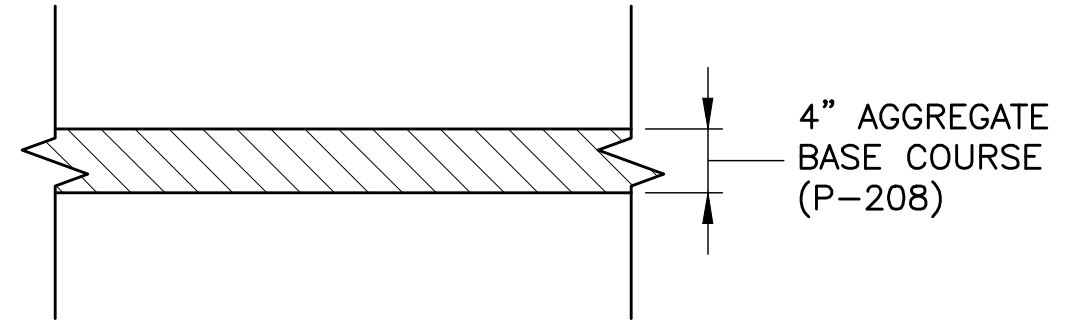


7 DOUBLE SAWCUT
NTS

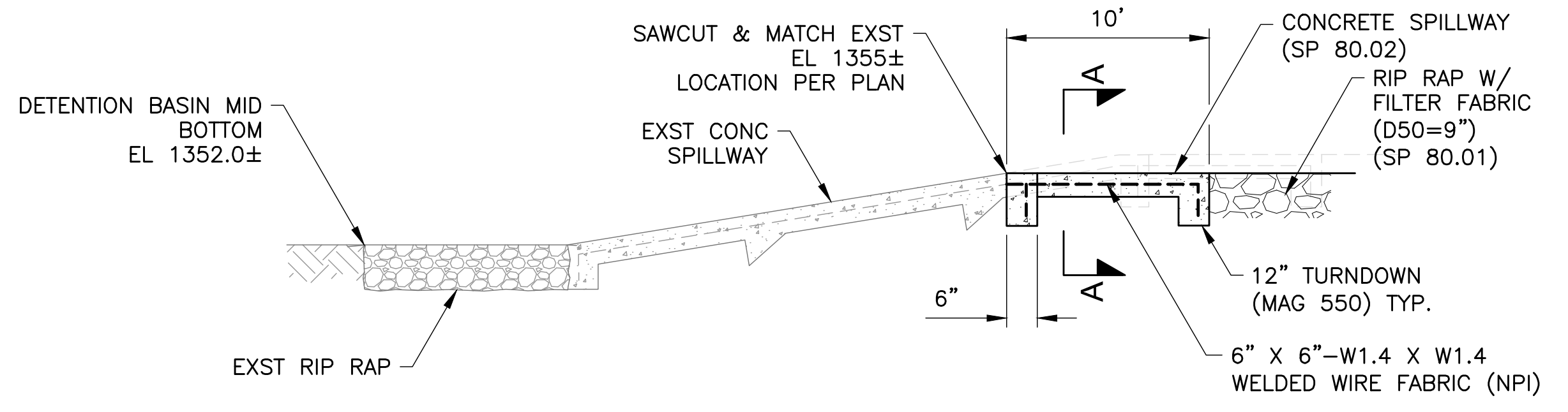


2 RUNWAY & TAXIWAY SHOULDER AC PAVEMENT SECTION
NTS

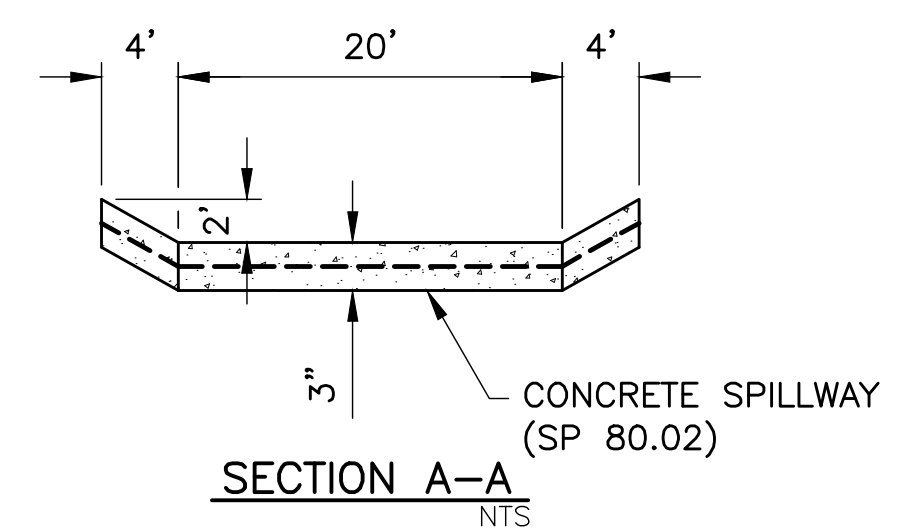
NOTE:
1. IF THE CONTRACTOR ELECTS TO PAVE ADDITIONAL LIFTS THEN THE ADDITIONAL APPLICATION OF TACK COAT (P-603) IS REQUIRED & WILL BE CONSIDERED INCIDENTAL TO THE PROJECT & THOSE COSTS SHALL BE ON THE CONTRACTOR.
2. DURING CONSTRUCTION, CONTRACTOR MAY USE P-209 IN LIEU OF P-154 TO ELIMINATE ADDITIONAL AGGREGATE MIX DESIGN/PRODUCTION, AT NO ADDITIONAL COST TO THE PROJECT.



4 SHOULDER STABILIZATION
NTS



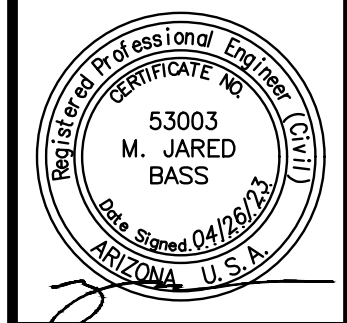
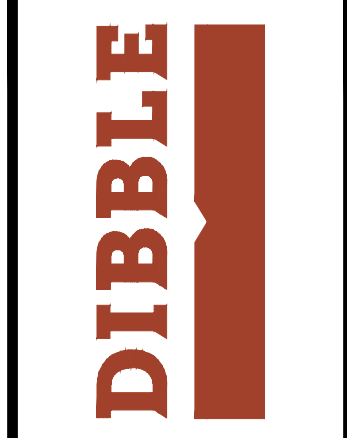
6 CONCRETE SPILLWAY
NTS



SECTION A-A
NTS

GENERAL NOTES
1. CONTRACTOR SHALL ANTICIPATE TREATED SUBGRADE AND/OR CLSM BACKFILL MATERIAL UNDER EXISTING AC SHOULDERS

REV	DATE	DESCRIPTION



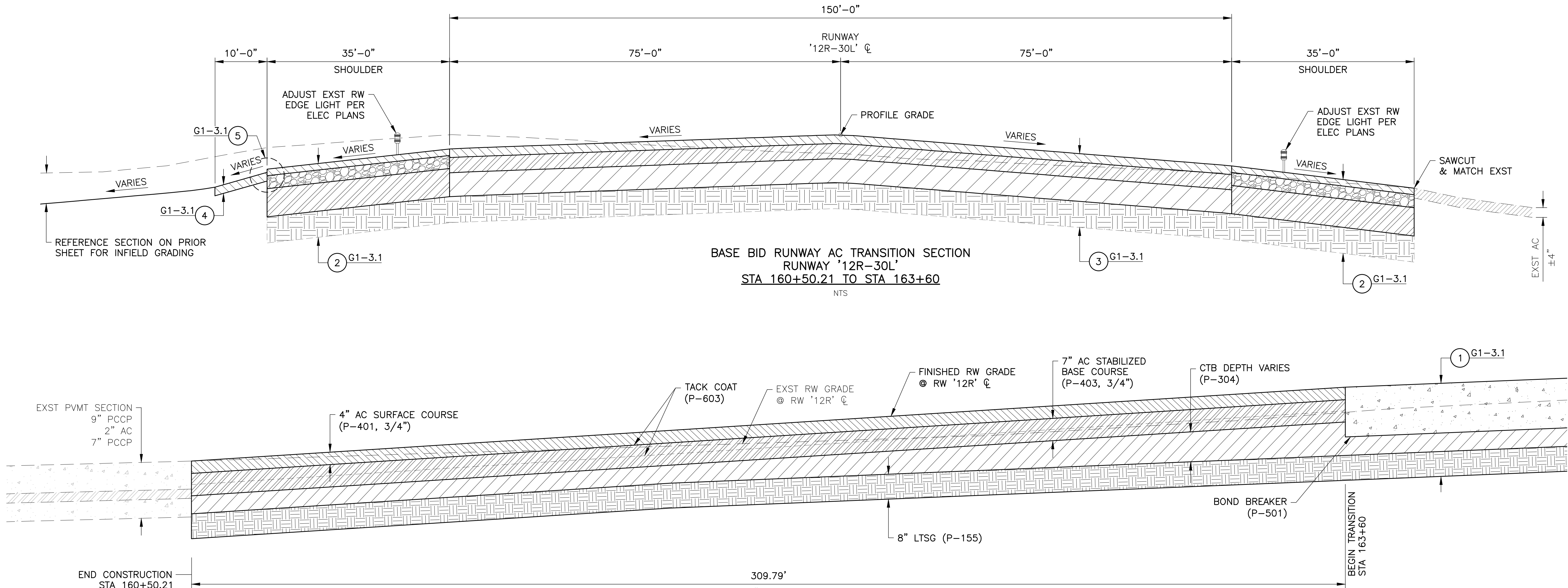
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-3-X-SECT_BB



RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
TYPICAL SECTIONS



FILE: 2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD\BASE-BID\20023_2303-G1-3-X-SECT_BB.dwg DATE: April 26, 2023 TIME: 11:58 AM BY: travis woodman



BASE BID RUNWAY AC TRANSITION SECTION
 RUNWAY '12R-30L'
 STA 160+50.21 TO STA 163+60
 NTS

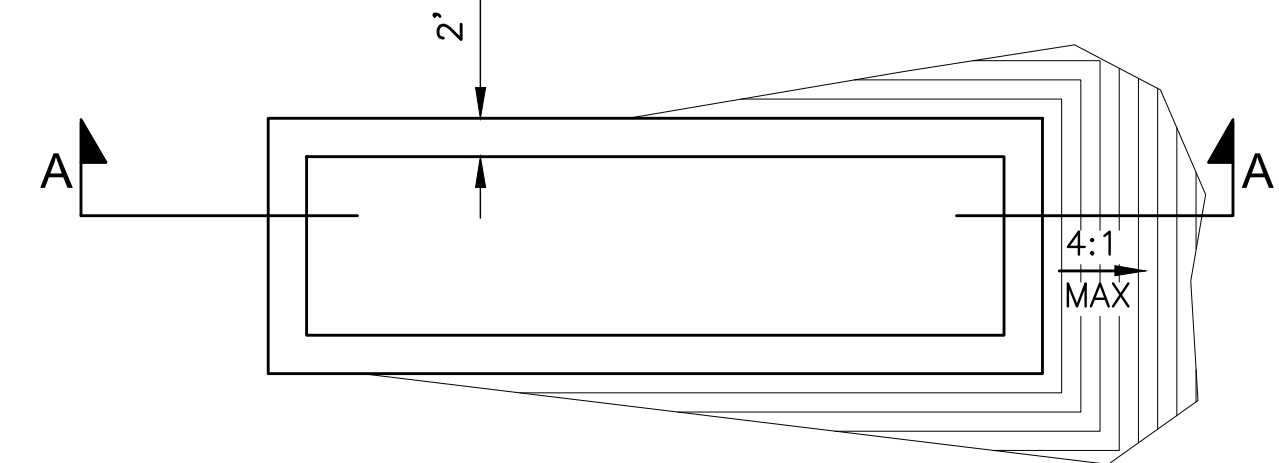
- NOTES:
1. THIS ASPHALT TRANSITION CENTERLINE PROFILE IS ONLY APPLICABLE IF THE BASE BID IS ONLY AWARDED.
 2. DEPTH OF CTB IS CALCULATED BY TAKING THE DIFFERENCE OF THE TOPA & THE TOSG (SHT C1-1.4) & SUBTRACTING OUT THE 11-INCH AC DEPTH.

309.79'
 11" OF AC
 VARIABLE DEPTH CTB FROM 6" TO 16" (SEE NOTE 2)
 8" LTSG
 SEE SHT C1-1.4 FOR TRANSITION AC & LTSG PAVING ELEVATIONS

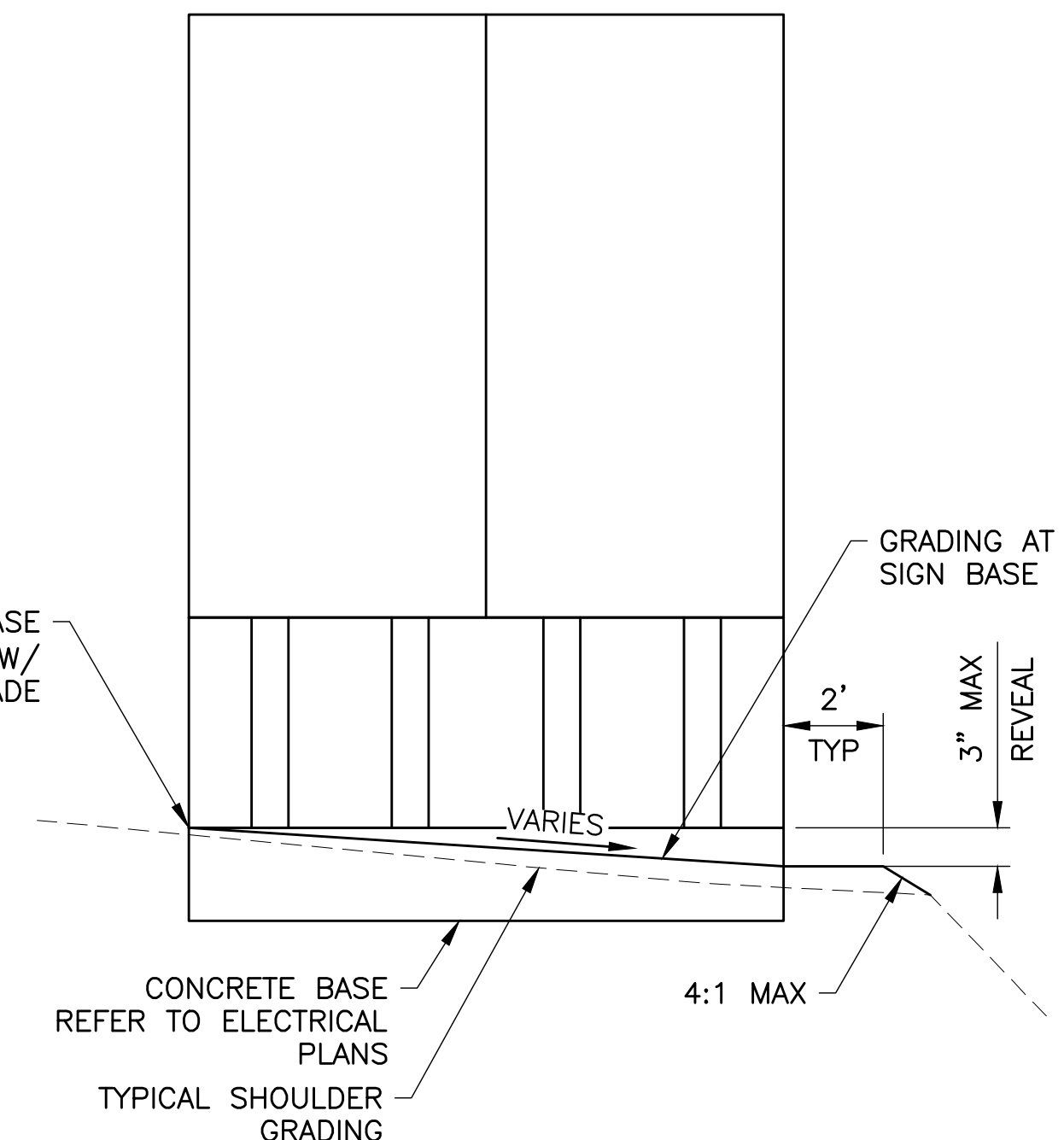
AC TRANSITION @ RW '12R-30L' CENTERLINE
 STA 160+50.21 TO STA 163+60
 NTS

GENERAL NOTES

1. CONTRACTOR SHALL ANTICIPATE TREATED SUBGRADE AND/OR CLSM BACKFILL MATERIAL UNDER EXISTING AC SHOULDERS



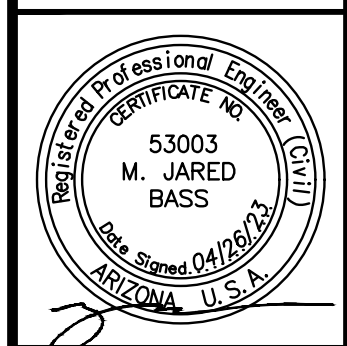
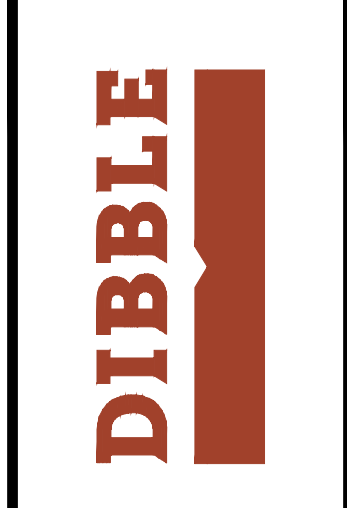
8 SIGN GRADING DETAIL
 NTS



SECTION A-A
 NTS



REV	DATE	DESCRIPTION

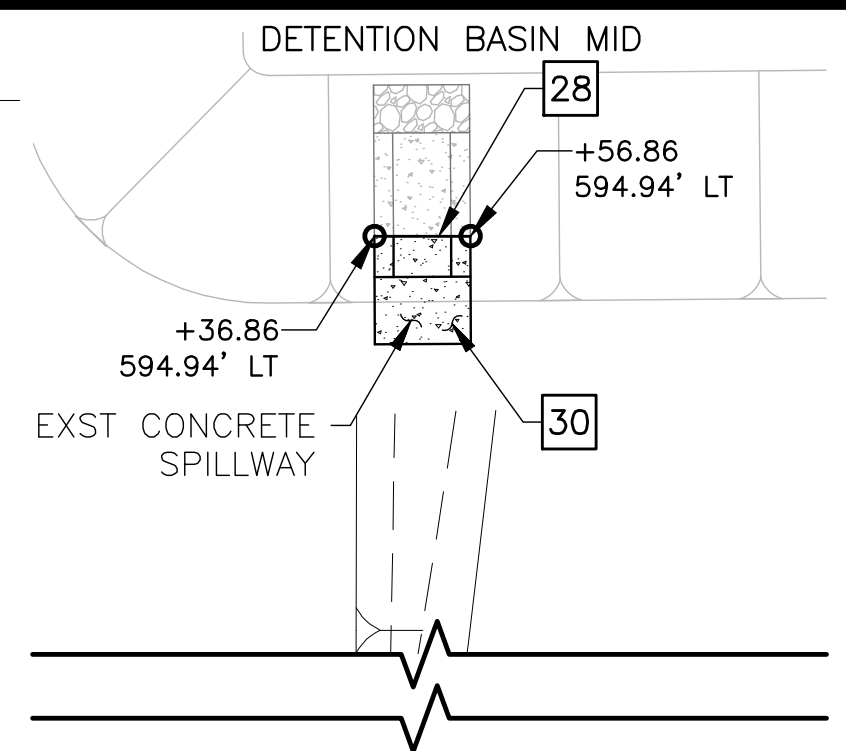
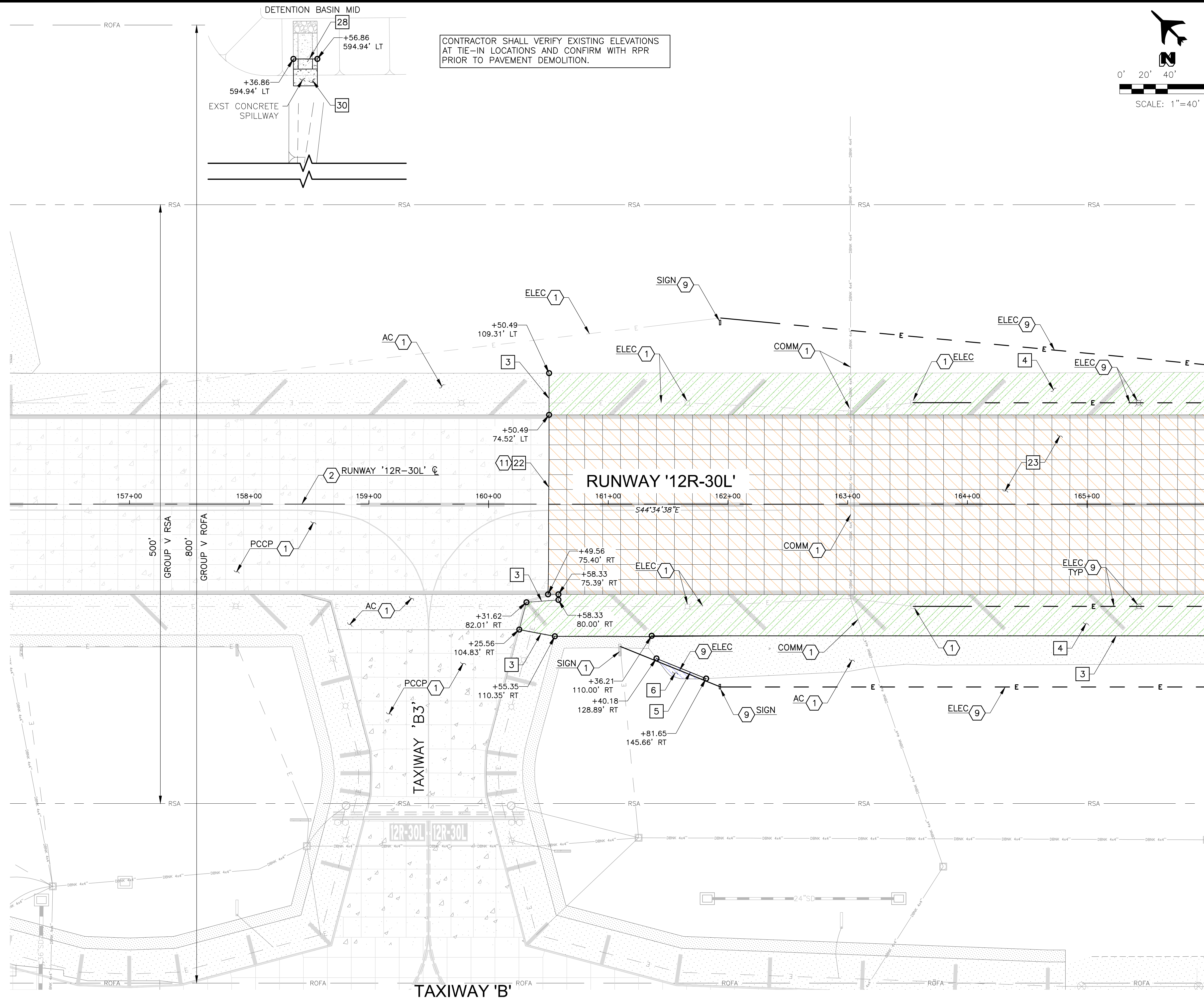


DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G1-3-X-SECT_BB

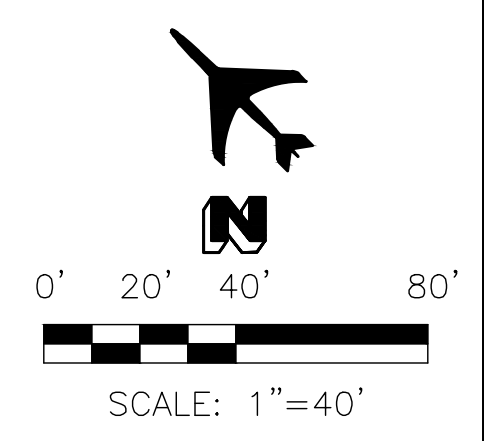


**RUNWAY '12R-30L' RECONSTRUCTION
 BASE BID
 ASPHALT TRANSITION
 TYPICAL SECTIONS**

FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-D1-1-X-DEMO-BB.dwg DATE: April 26, 2023 TIME: 11:58 AM BY: trevis woodman



CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.

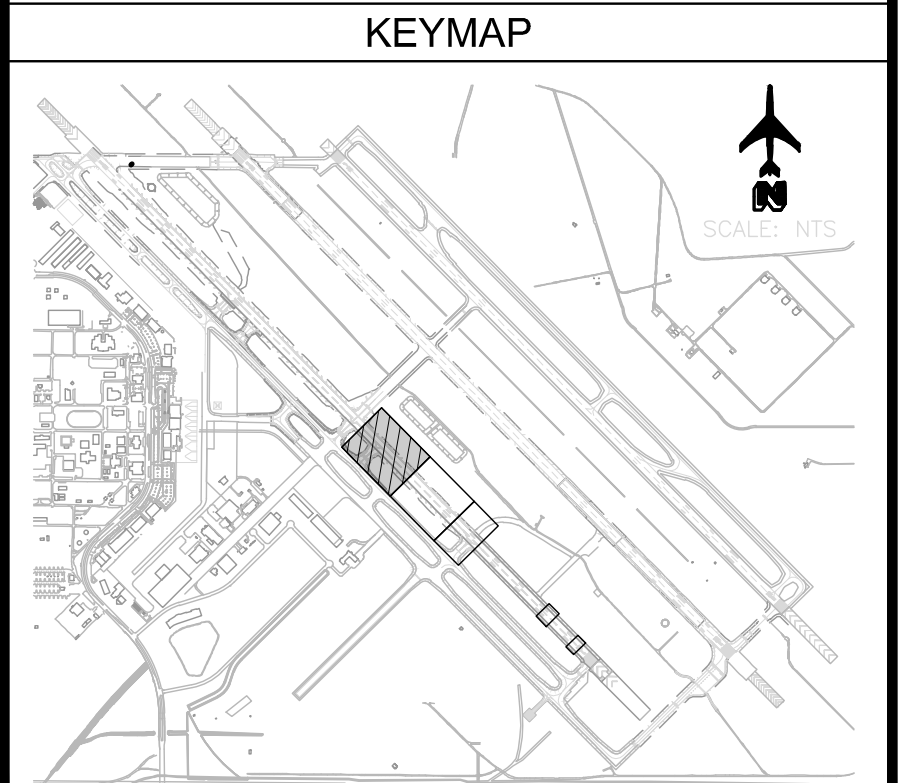


DEMOLITION NOTES	
3	SAWCUT AC PAVEMENT (± 4" DEPTH) 665 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH) 4,312 SY
5	SAWCUT AC PAVEMENT (2" TO 3" DEPTH) 45 LF
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH) 27 SY
22	SAWCUT PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP) 300 LF
23	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP) 9,156 SY
28	SAWCUT CONCRETE APRON/SPILLWAY (3" DEPTH) 20 LF
30	REMOVE CONCRETE APRON/SPILLWAY (3" DEPTH) 50 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
9	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E1-2.1 TO E1-2.7
11	DOUBLE SAWCUT DET 7 SHT G1-3.1

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP)
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT D2-1.2



REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D1-1-X-DEMO-BB



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) DEMOLITION PLAN
STA 156+00 TO STA 166+00**

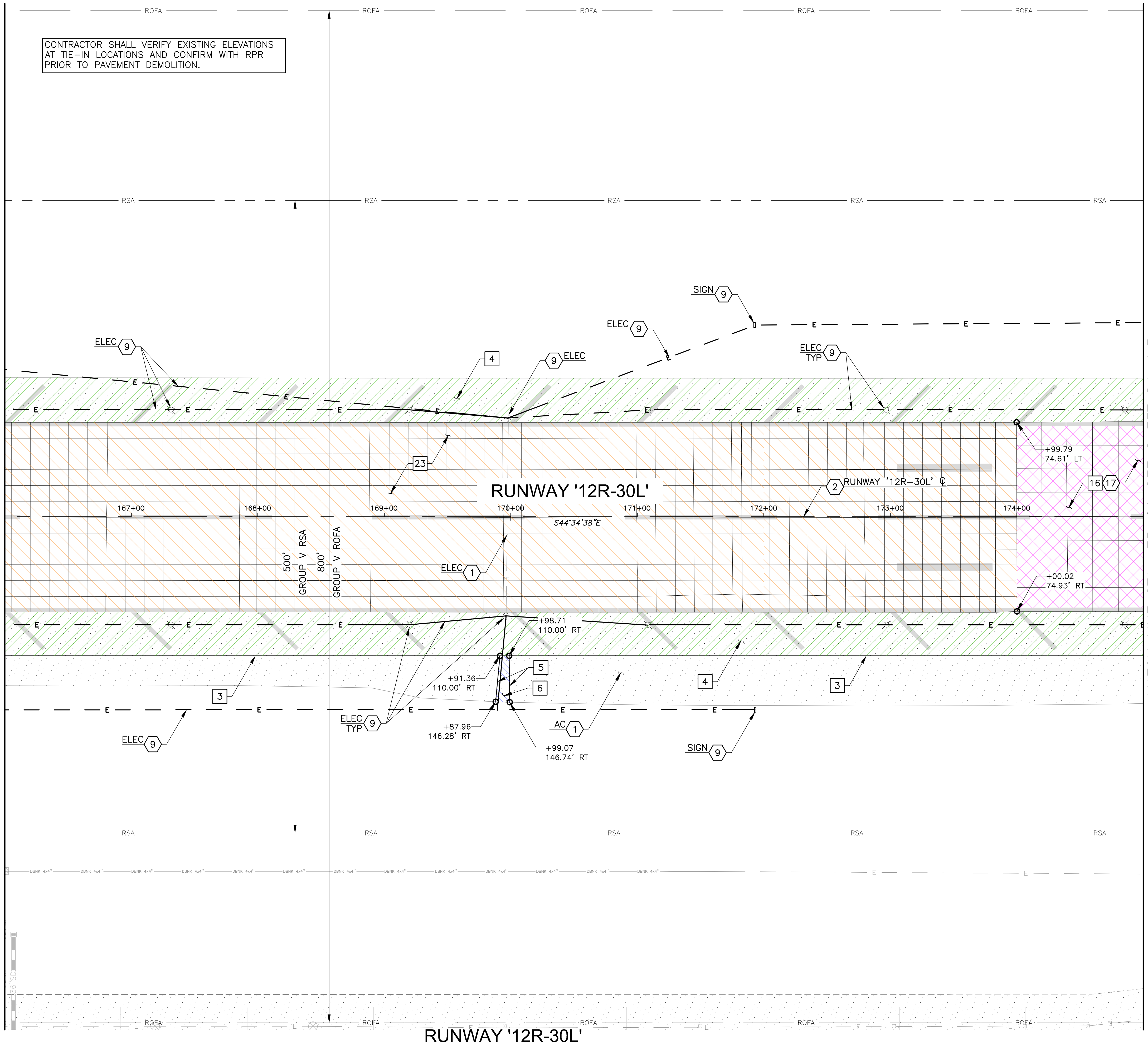
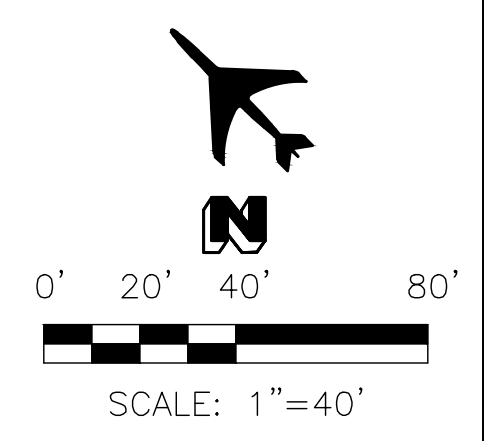


FILE: 2020\1020023.2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD\BASE-BID\20023_2303-D1-1-X-DEMO-BB.dwg DATE: April 26, 2023 TIME: 11:59 AM BY: trevis woodman

MATCH LINE STA 166+00 SEE SHEET D1-1.1

MATCH LINE STA 175+00 SEE SHEET D1-1.3

CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.



DEMOLITION NOTES		
3	SAWCUT AC PAVEMENT (± 4" DEPTH)	900 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH)	7,000 SY
5	SAWCUT AC PAVEMENT (2" TO 3" DEPTH)	74 LF
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH)	38 SY
16	REMOVE PAVEMENT SECTION (16" PCCP, 6" AC)	1,667 SY
23	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP)	13,334 SY

REV	DATE	DESCRIPTION

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
9	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E1-2.1 TO E1-2.7
17	SUBGRADE UNDER PAVEMENT SECTION HAS 8" TO 12" LIME STABILIZATION

LEGEND	
	EXST AC PAVEMENT
	REMOVE PAVEMENT SECTION (± 9" PCCP, 3" AC, 6" PCCP)
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE PAVEMENT SECTION (16" PCCP, 6" AC)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)

KEYMAP	

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
M. JARED BASS
No. 53003
State of Arizona

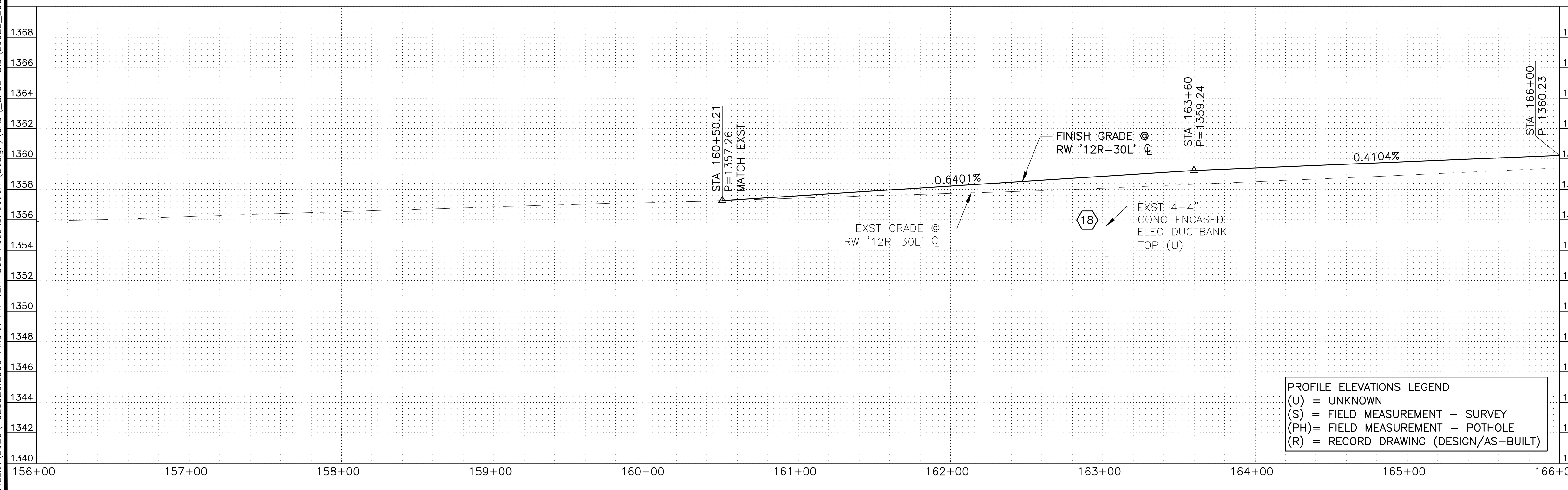
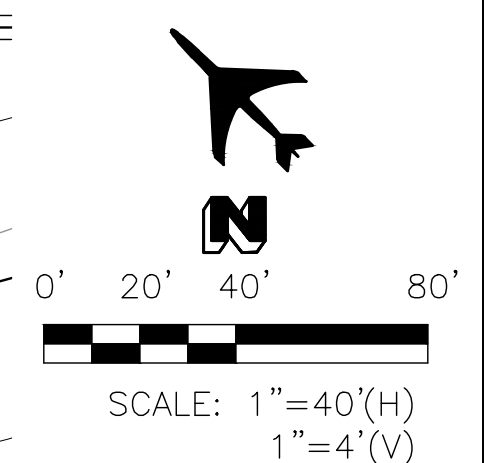
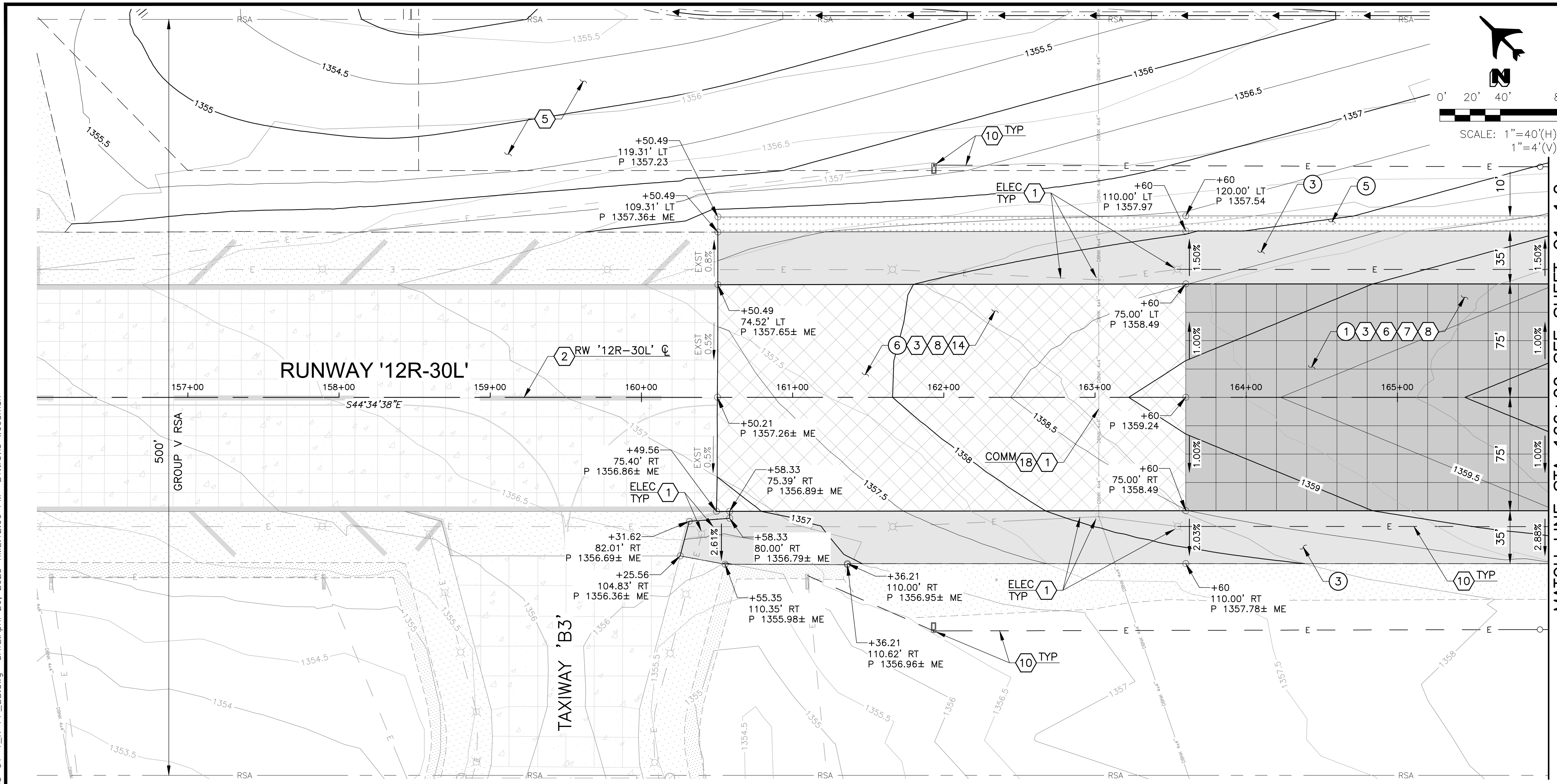
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D1-1-X-DEMO-BB



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) DEMOLITION PLAN
STA 166+00 TO STA 175+00**



FILE:J:\2020\10200203\2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\200203-2303-C1-1-X-PP-BB.dwg DATE:April 26, 2023 TIME:12:00 PM BY:travis.woodman



CONSTRUCTION NOTES	
1	RUNWAY PCCP SECT 1, SHT G1-3.1 4,000 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1 4,325 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1 611 SY
6	RUNWAY TRANSITION AC PAVEMENT SECT 3, SHT G1-3.1 5,159 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
3	REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
5	REFER TO GRADING AND DRAINAGE PLANS SHTS C1-2.1 TO C1-2.3
6	REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
7	REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
8	REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
10	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7
14	REFER TO SHEET C1-1.4 FOR ASPHALT TRANSITION PAVEMENT ELEVATIONS
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1
	RUNWAY TRANSITION AC PAVEMENT SECT 3, SHT G1-3.1

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C2-1.2

KEYMAP

Phoenix-Mesa Gateway Airport

Call at least two full working days before you begin excavation.

ARIZONA 811
Under the Sun, Inc.
811-4-ARIZONA
811-4-ARIZONA

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
Certificate No. 53003
M. JARED BASS
Date Rec'd 04/26/23
Arizona, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	2003_2303-C1-1_X-PP-BB

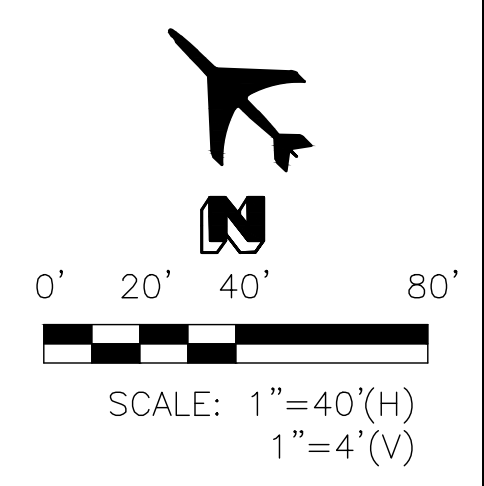
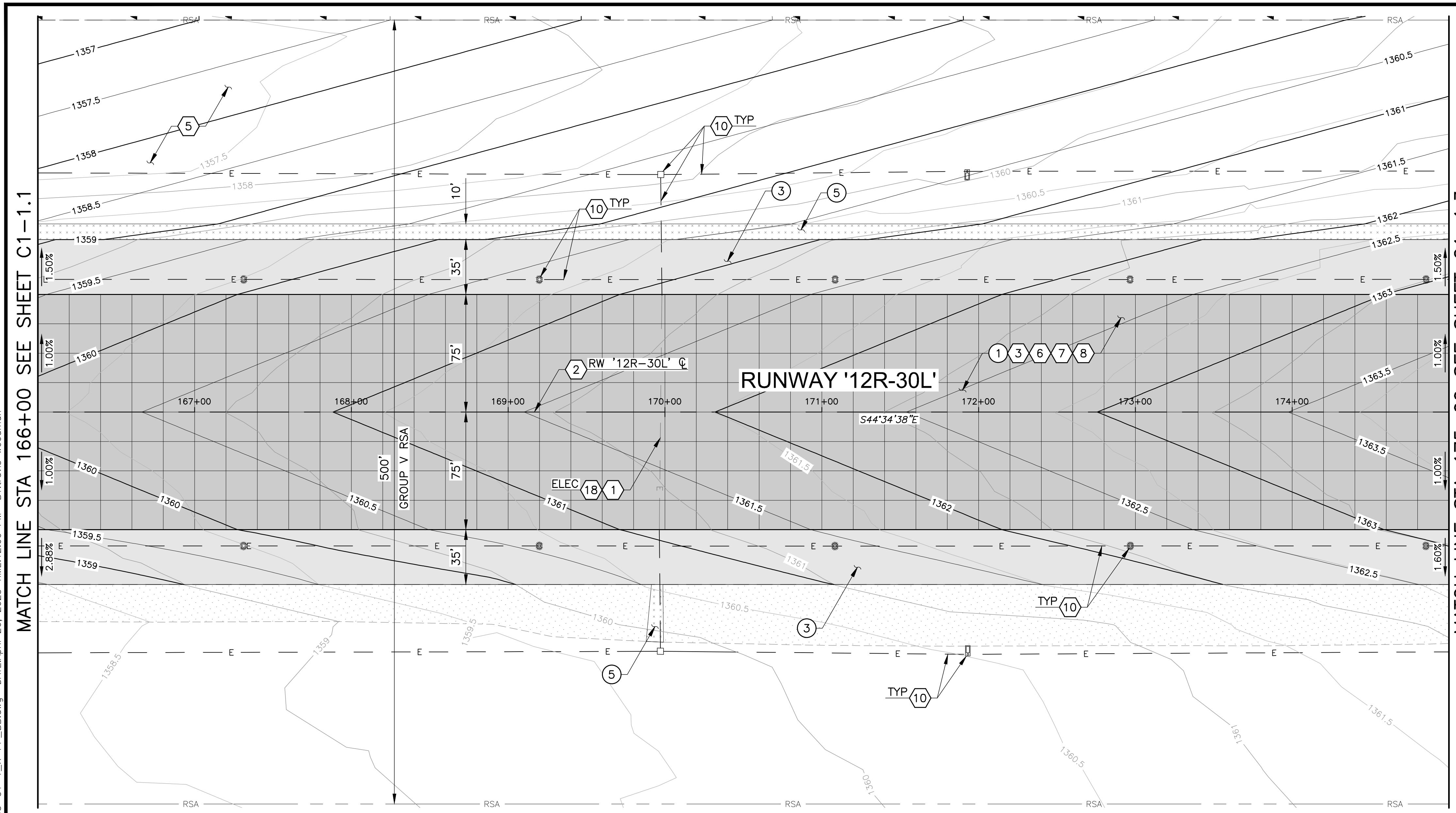
RUNWAY '12R-30L' RECONSTRUCTION BASE BID

(SCH I) PAVING PLAN & PROFILE STA 156+00 TO STA 166+00

C1-1.1

SHEET NO. 17 OF 211

FILE: \\2020\1020023\2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023-2303-C1-1-X-PP-BB.dwg DATE: April 26, 2023 TIME: 12:00 PM BY: travis.woodman



CONSTRUCTION NOTES	
1	RUNWAY PCCP SECT 1, SHT G1-3.1 15,000 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1 7,000 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1 1,000 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
3	REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
5	REFER TO GRADING AND DRAINAGE PLANS SHTS C1-2.1 TO C1-2.3
6	REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
7	REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
8	REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
10	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK

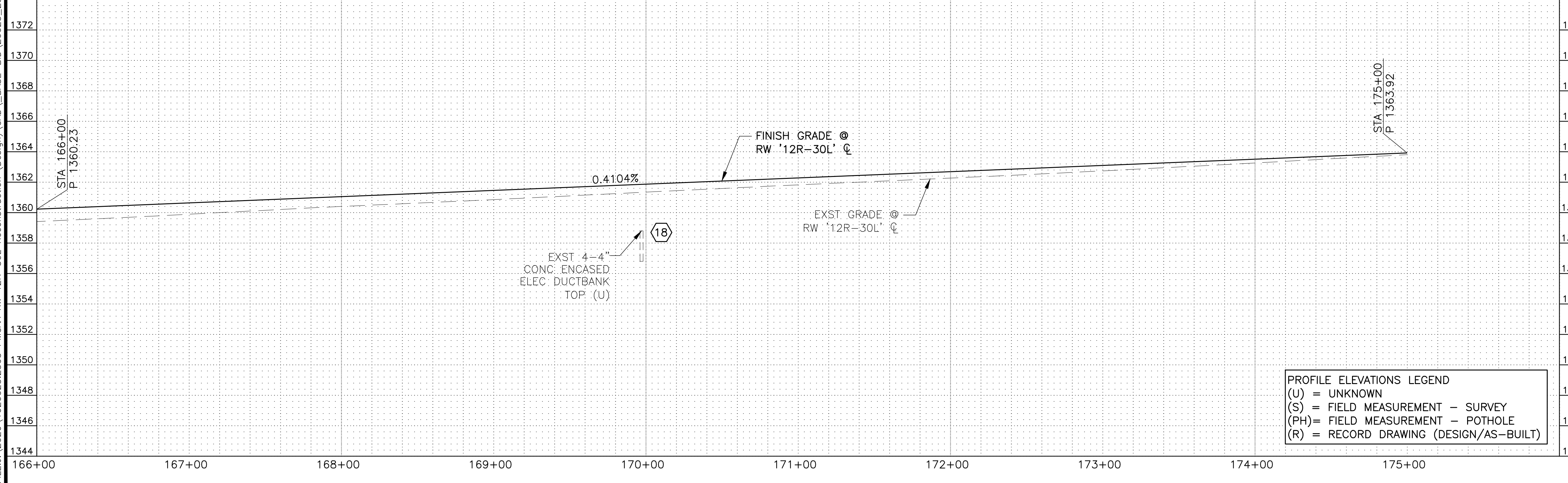
REV	DATE	DESCRIPTION

DIBBLE

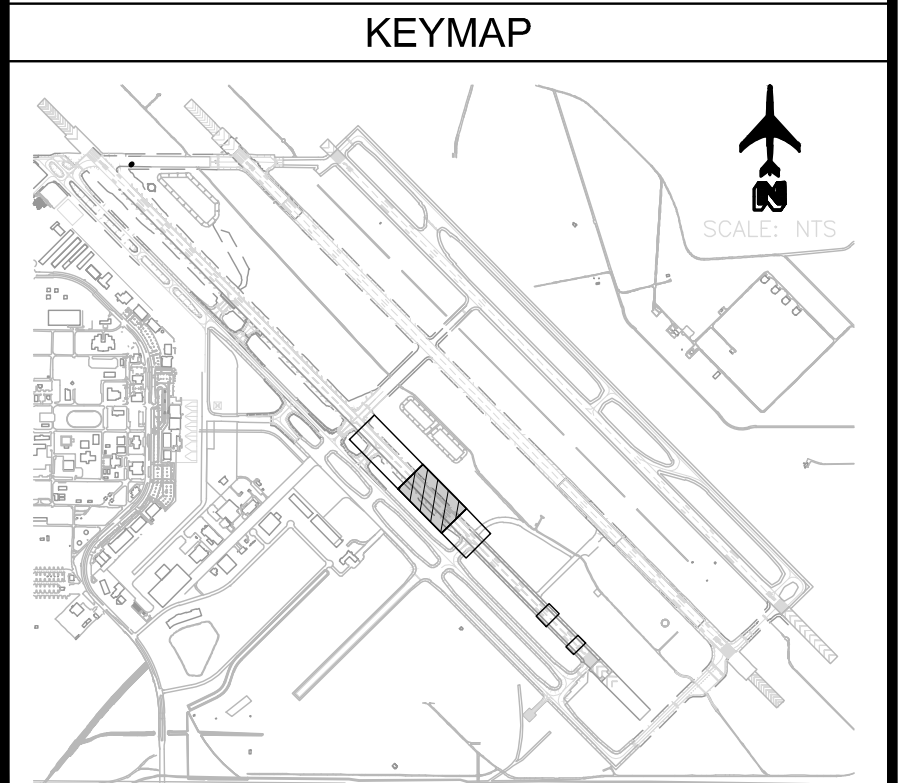
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-1_X-PP_BB



LEGEND	
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



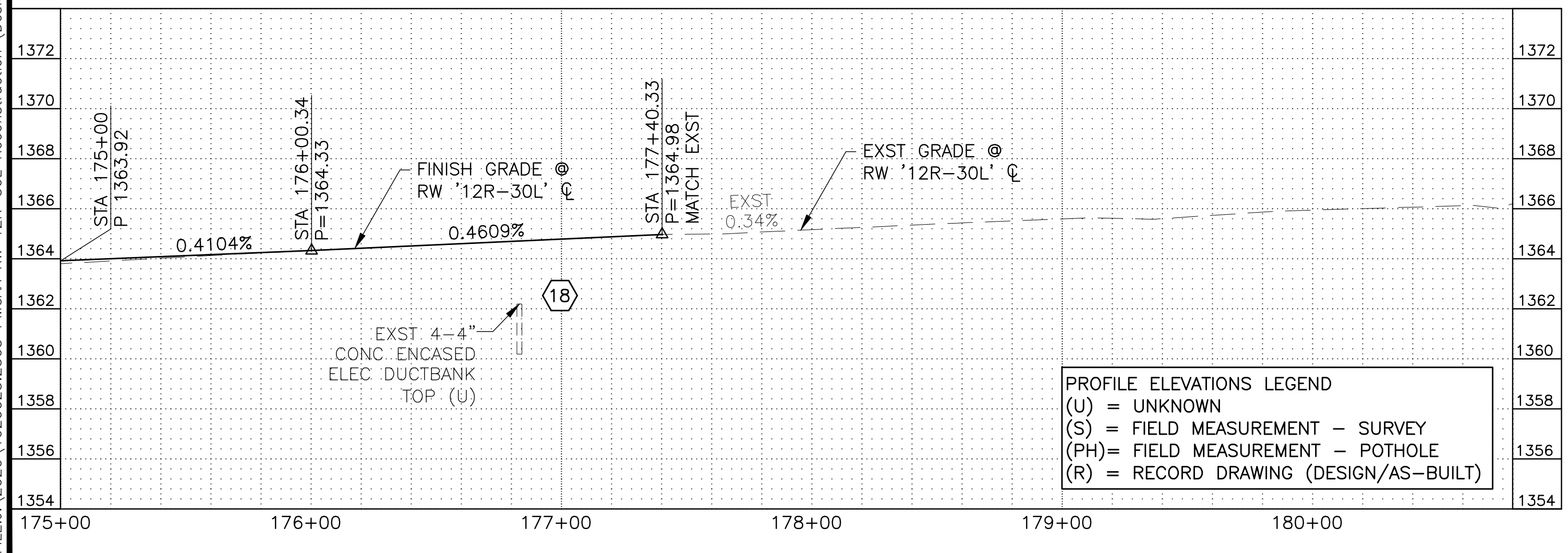
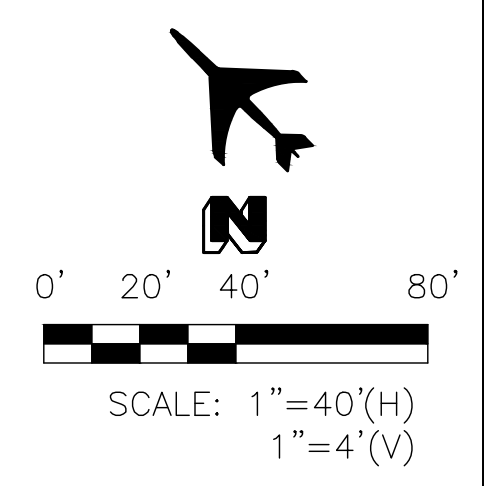
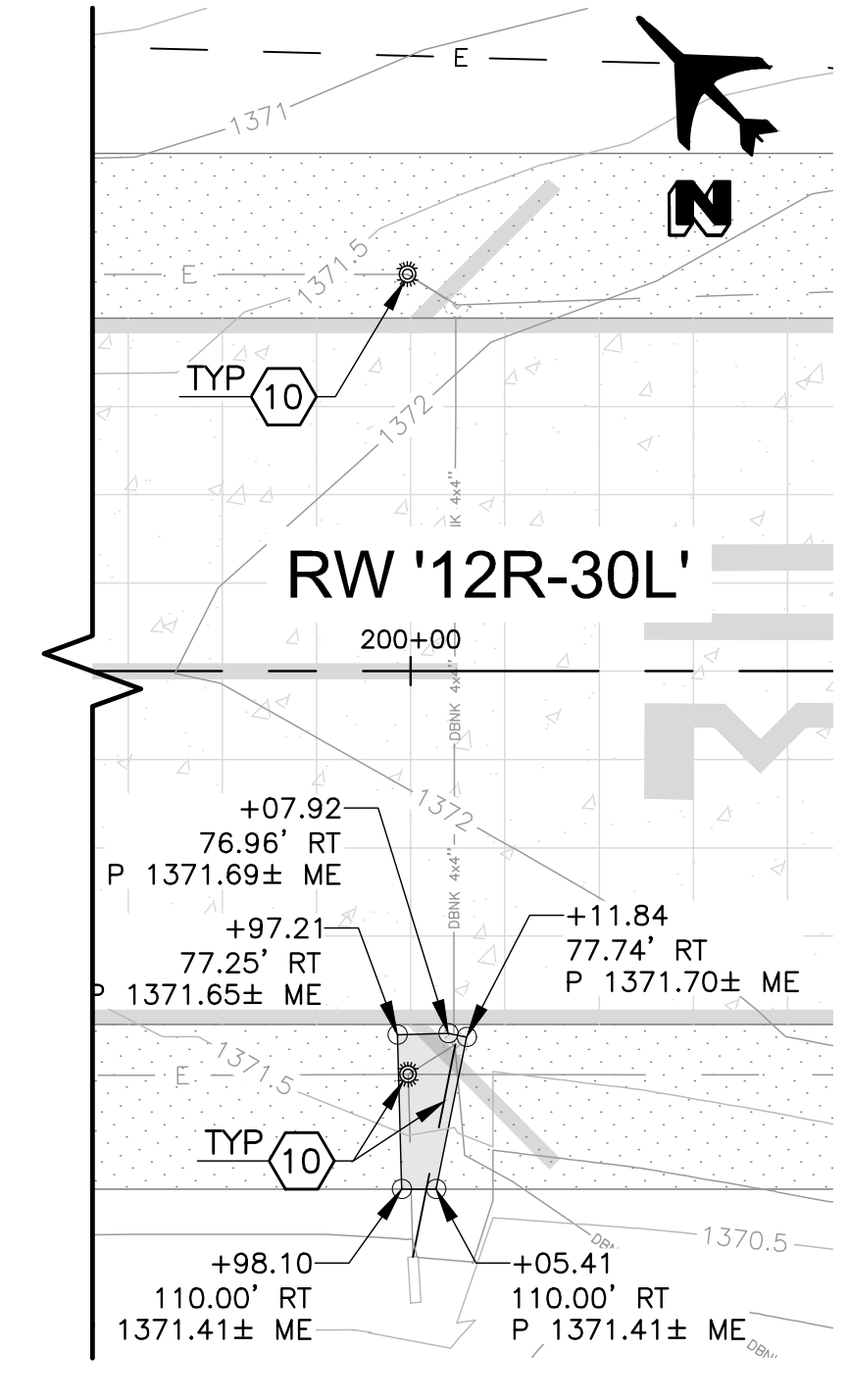
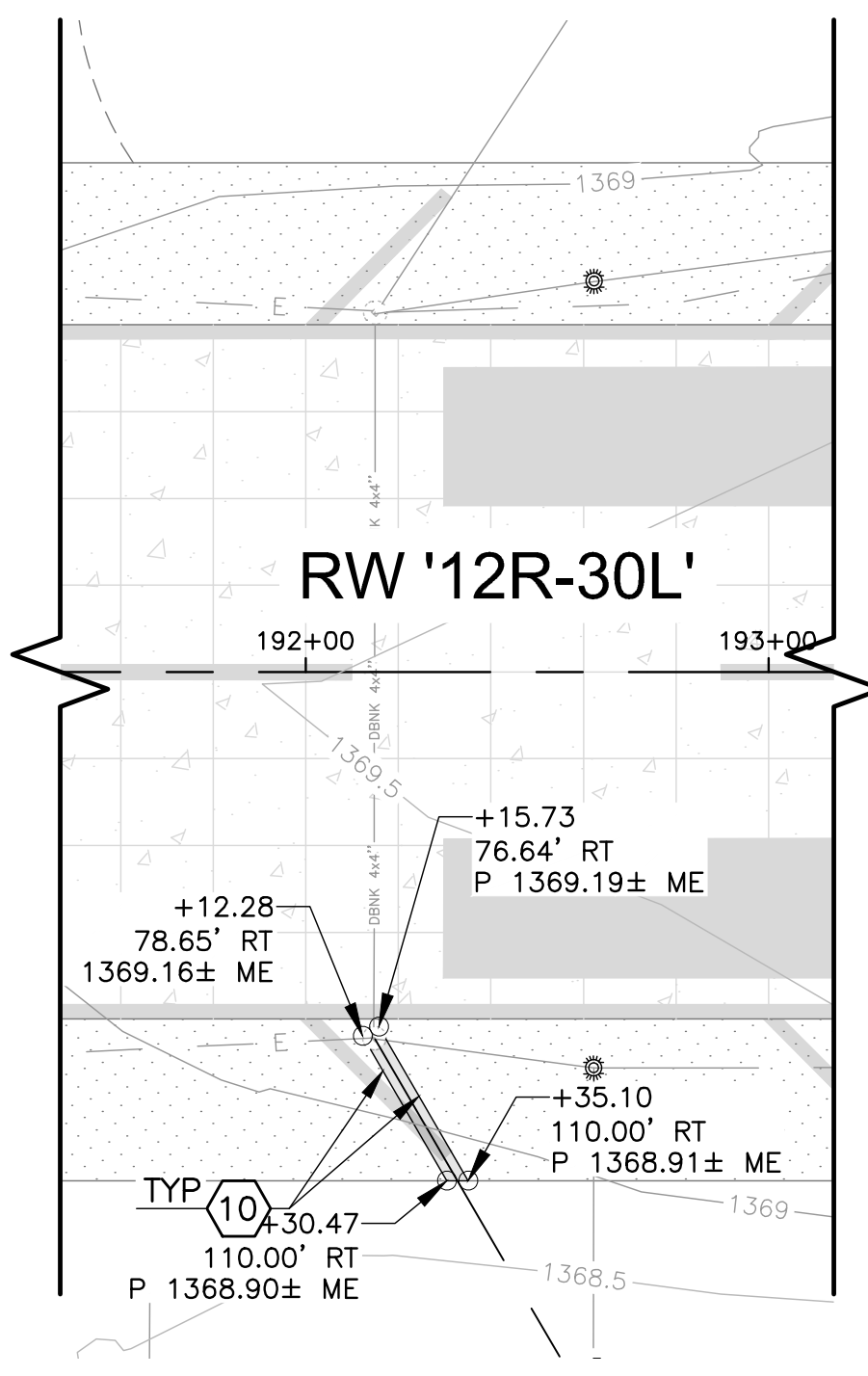
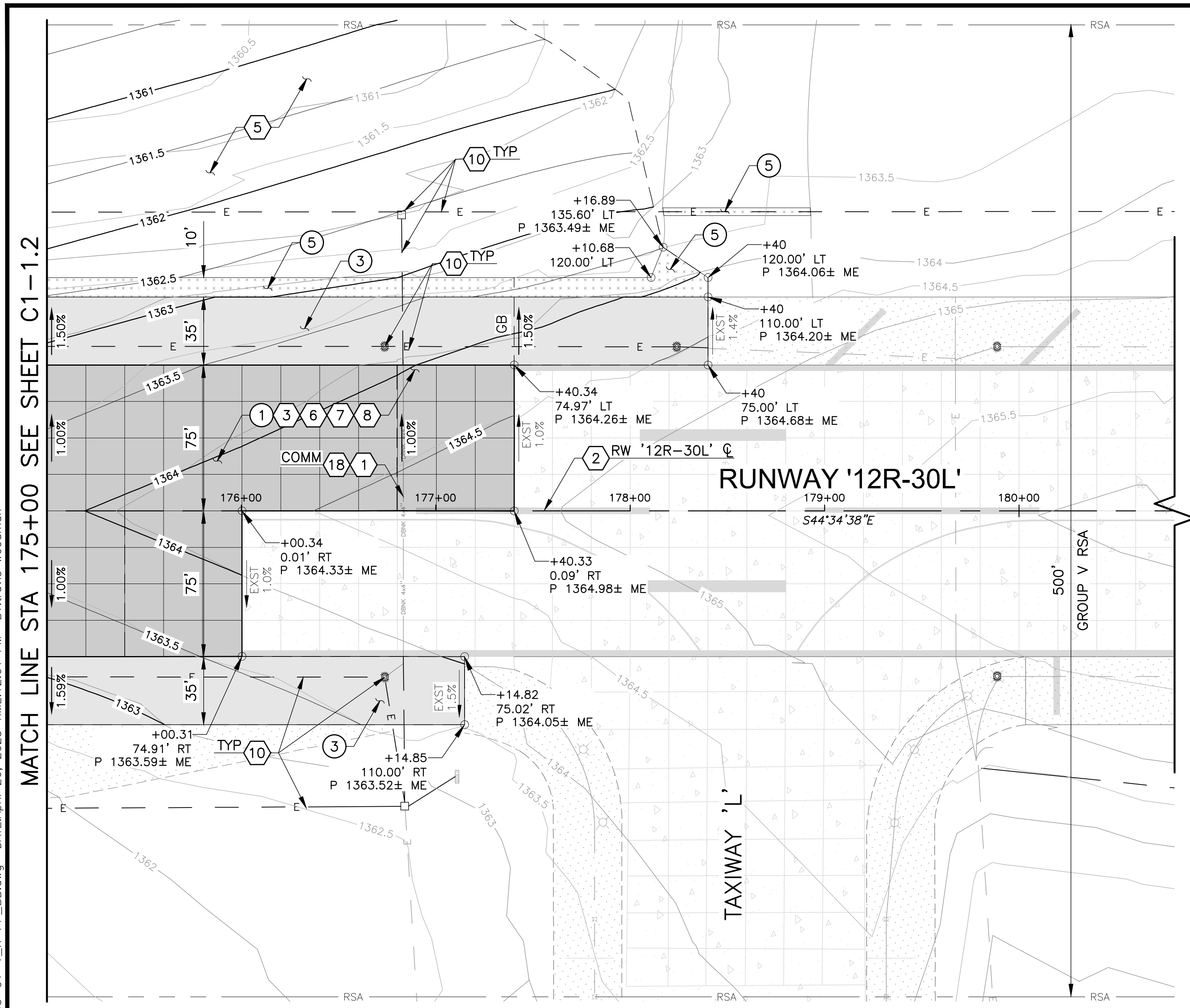
PROFILE ELEVATIONS LEGEND	
(U)	= UNKNOWN
(S)	= FIELD MEASUREMENT - SURVEY
(PH)	= FIELD MEASUREMENT - POT HOLE
(R)	= RECORD DRAWING (DESIGN/AS-BUILT)



RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVING PLAN & PROFILE
STA 166+00 TO STA 175+00



FILE: \\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_BASE-BID\20023_2303-C1-1_X-PP_BB.dwg DATE: April 26, 2023 TIME: 12:01 PM BY: trovis_woodman



CONSTRUCTION NOTES	
1	RUNWAY PCCP SECT 1, SHT G1-3.1 2,839 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1 2,157 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1 403 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
3	REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
5	REFER TO GRADING AND DRAINAGE PLANS SHTS C1-2.1 TO C1-2.3
6	REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
7	REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
8	REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
10	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1

KEYMAP

Phoenix-Mesa Gateway Airport

Call at least two full working days before you begin excavation

ARIZONA 811
Digging the Safe Way

Dist 6-1 or 1-800-874-8247 (TDD-8548)
In Maricopa County (602) 263-1100

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
M. JARED BASS
License No. 53003
State of Arizona

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	20023_2303-C1-1_X-PP_BB

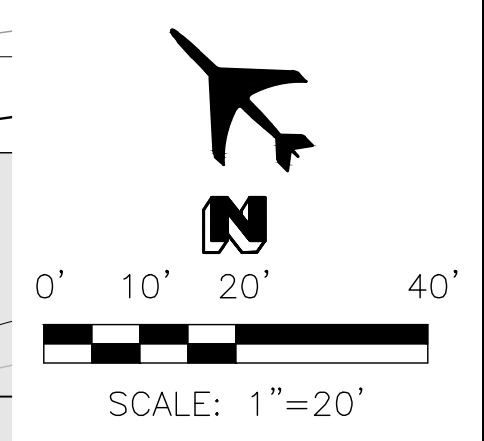
**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID**

**(SCH I) PAVING PLAN & PROFILE
STA 175+00 TO STA 179+00**

C1-1.3

SHEET NO.
19 OF **211**

FILE:J:\2020\2303\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-1_X-PP_BB.dwg DATE:April 26, 2023 TIME:12:01 PM BY:trovis_woodman

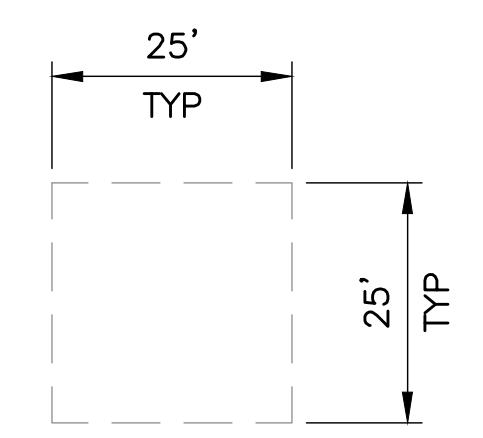


REFERENCE NOTES

3 REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3

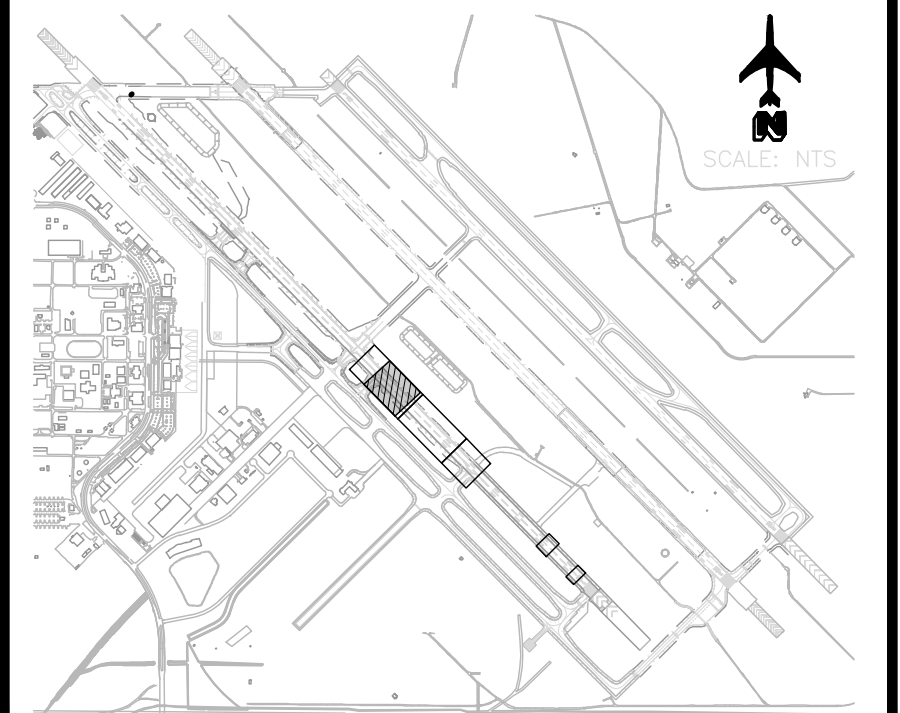
LEGEND

- TOPA: TOP OF PROPOSED ASPHALT -1300
TOSG: TOP OF LTSG -1300
- EXST PCCP
- EXST AC PAVEMENT
- EXST SHOULDER STABILIZATION
- RUNWAY PCCP
SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER
PAVEMENT
SECT 2, SHT G1-3.1
- SHOULDER STABILIZATION
SECT 4, SHT G1-3.1
- RUNWAY TRANSITION
AC PAVEMENT
SECT 3, SHT G1-3.1

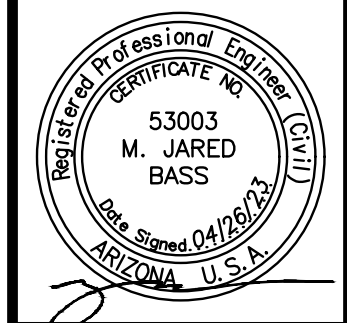
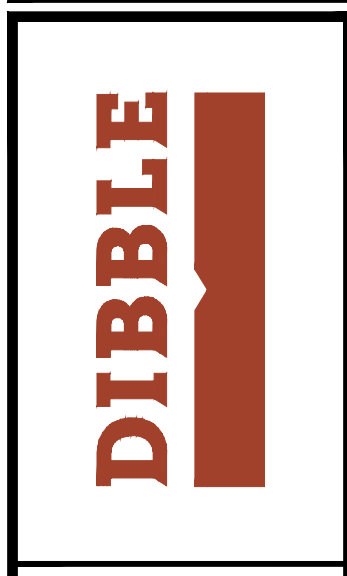


NOTE:
REFER TO SHT G1-3.2 FOR
TRANSITION PROFILE

KEYMAP



REV	DATE	DESCRIPTION



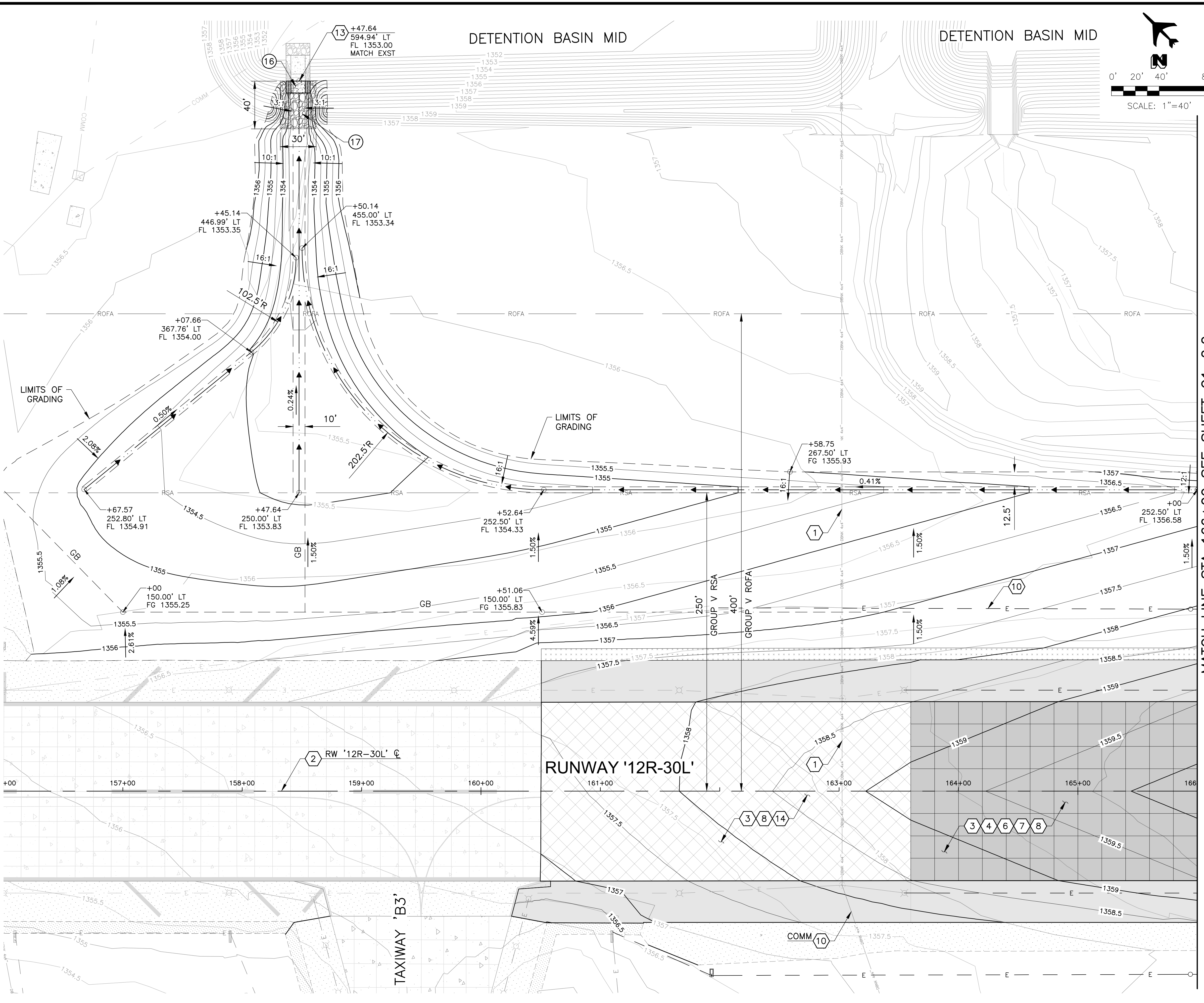
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-1_X-PP_BB



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH II) ASPHALT TRANSITION
PAVEMENT ELEVATIONS**

C1-1.4
SHEET NO.
20 OF **211**

FILE:J:\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_BASE-BID\20023_2303-C1-2_X-GRAD_BB.dwg DATE:April 26, 2023 TIME:12:02 PM BY:travis.woodman



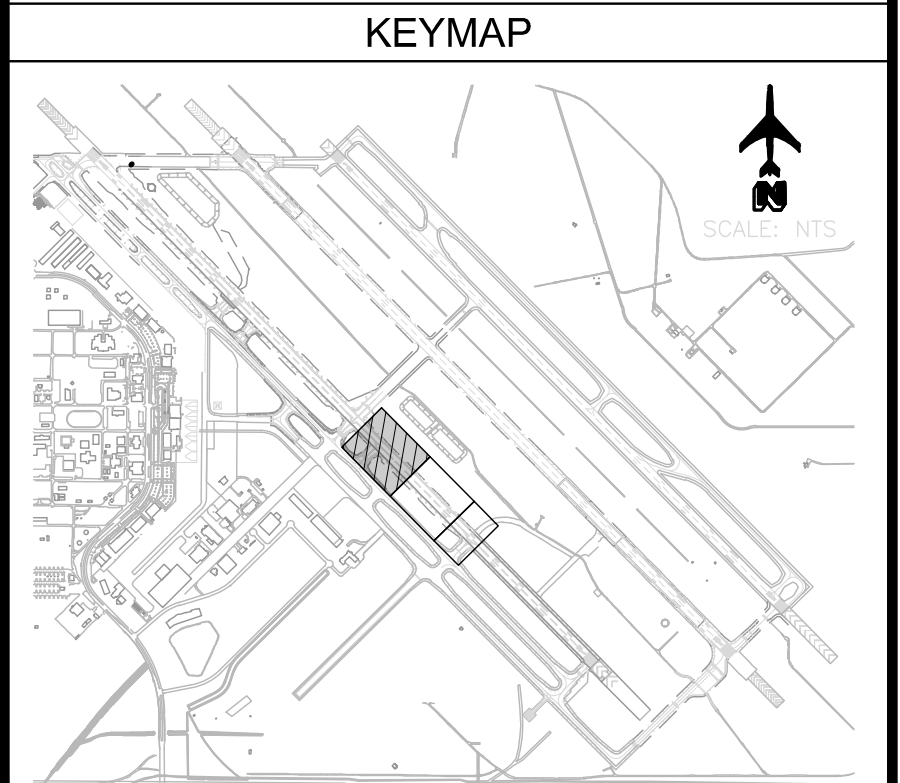
MATCH LINE STA 166+00 SEE SHEET C1-2.2

CONST NOTES (BASE BID - SCH I)	
16	CONCRETE SPILLWAY DET 6, SHT G1-3.1 1 LS
17	RIP RAP WITH FILTER FABRIC, D50=9" 111 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
3	REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
4	REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
6	REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
7	REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
8	REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
10	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7
13	CONTRACTOR TO VERIFY 'MATCH EXISTING' ELEVATIONS PRIOR TO ANY DEMO
14	REFER TO SHEET C1-1.4 FOR ASPHALT TRANSITION PAVEMENT ELEVATIONS

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1
	RUNWAY TRANSITION AC PAVEMENT SECT 3, SHT G1-3.1

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C2-2.2



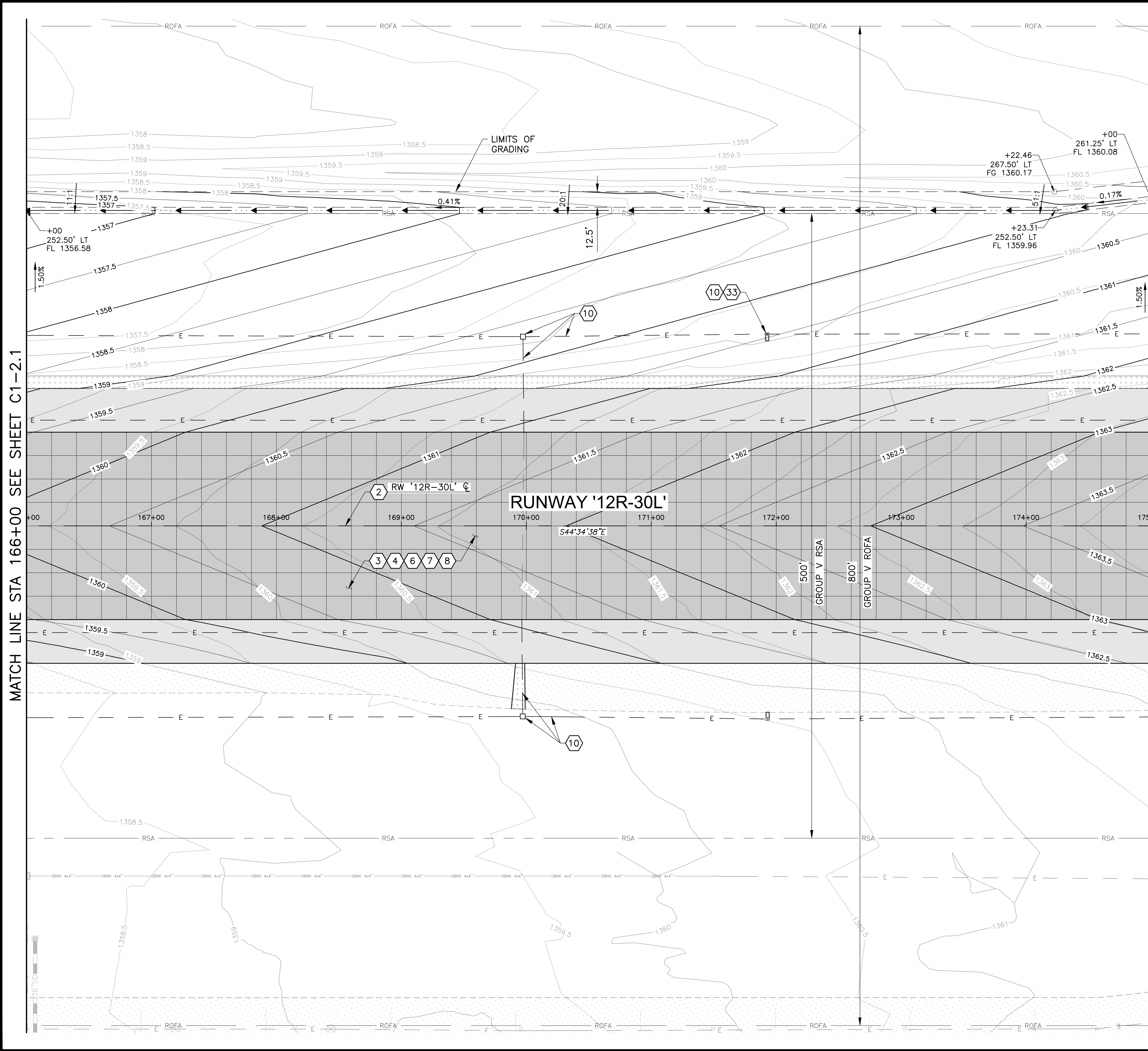
REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-2_X-GRAD_BB

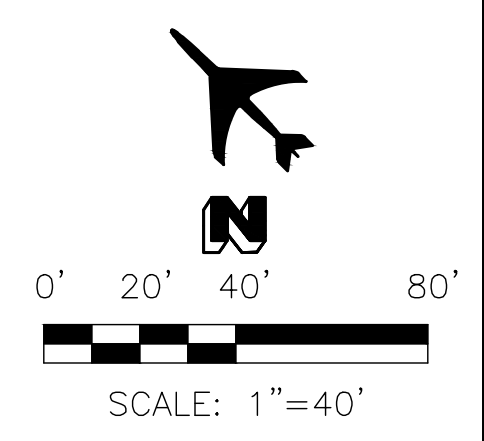
**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) GRADING & DRAINAGE PLAN
STA 156+00 TO STA 166+00**

FILE: \\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD\BASE-BID\20023_2303-C1-2_X-GRAD_BB.dwg DATE: April 26, 2023 TIME: 12:03 PM BY: travis.woodman



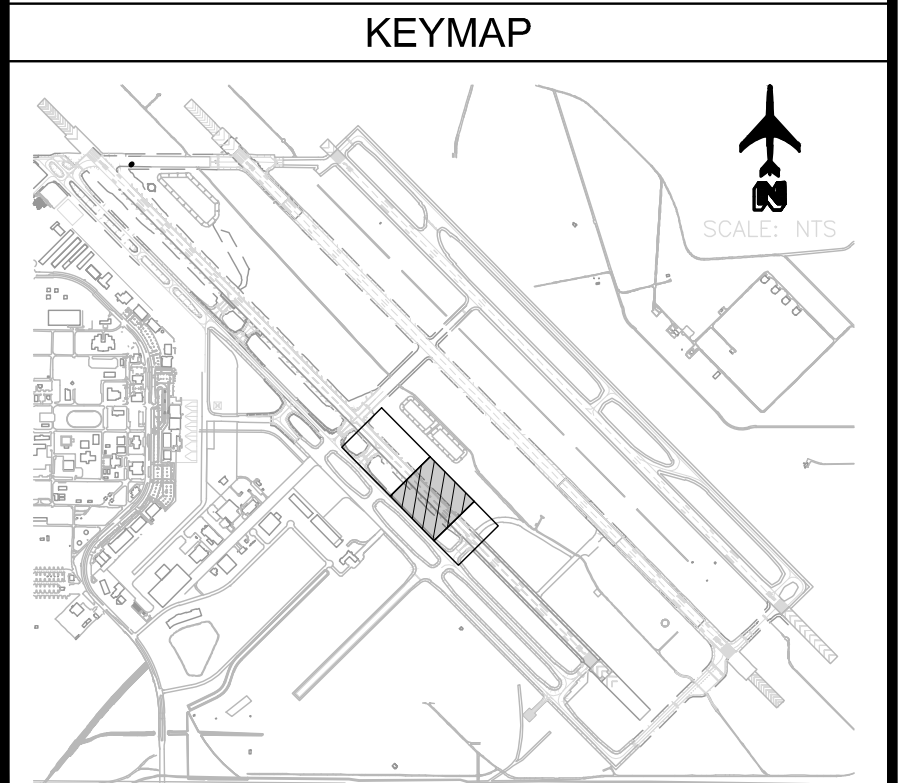
MATCH LINE STA 166+00 SEE SHEET C1-2.1

MATCH LINE STA 175+00 SEE SHEET C1-2.3

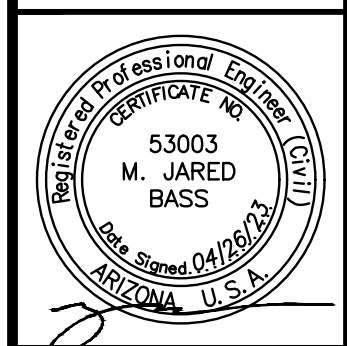
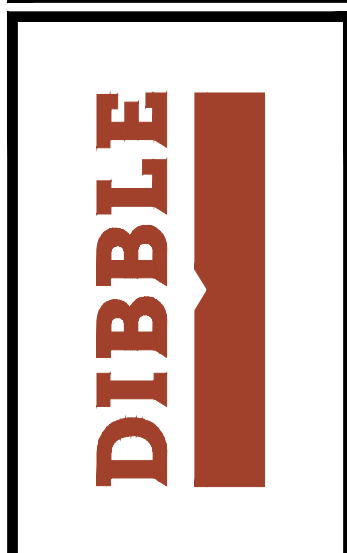


- REFERENCE NOTES**
- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
 - 3 REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
 - 4 REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
 - 6 REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
 - 7 REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
 - 8 REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
 - 10 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7
 - 33 SEE DET 8, SHT G1-3.2 FOR GRADING AT SIGN BASE

- LEGEND**
- EXST AC PAVEMENT
 - RUNWAY PCCP SECT 1, SHT G1-3.1
 - RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
 - SHOULDER STABILIZATION SECT 4, SHT G1-3.1



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-2_X-GRAD_BB

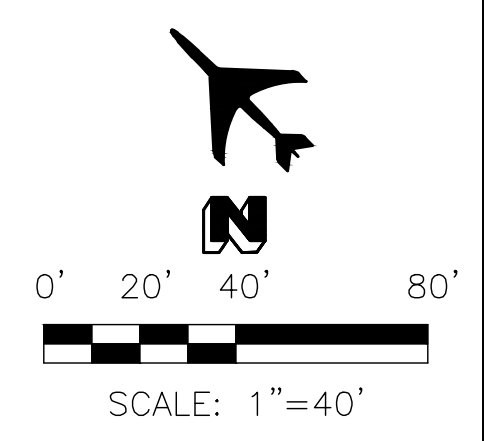
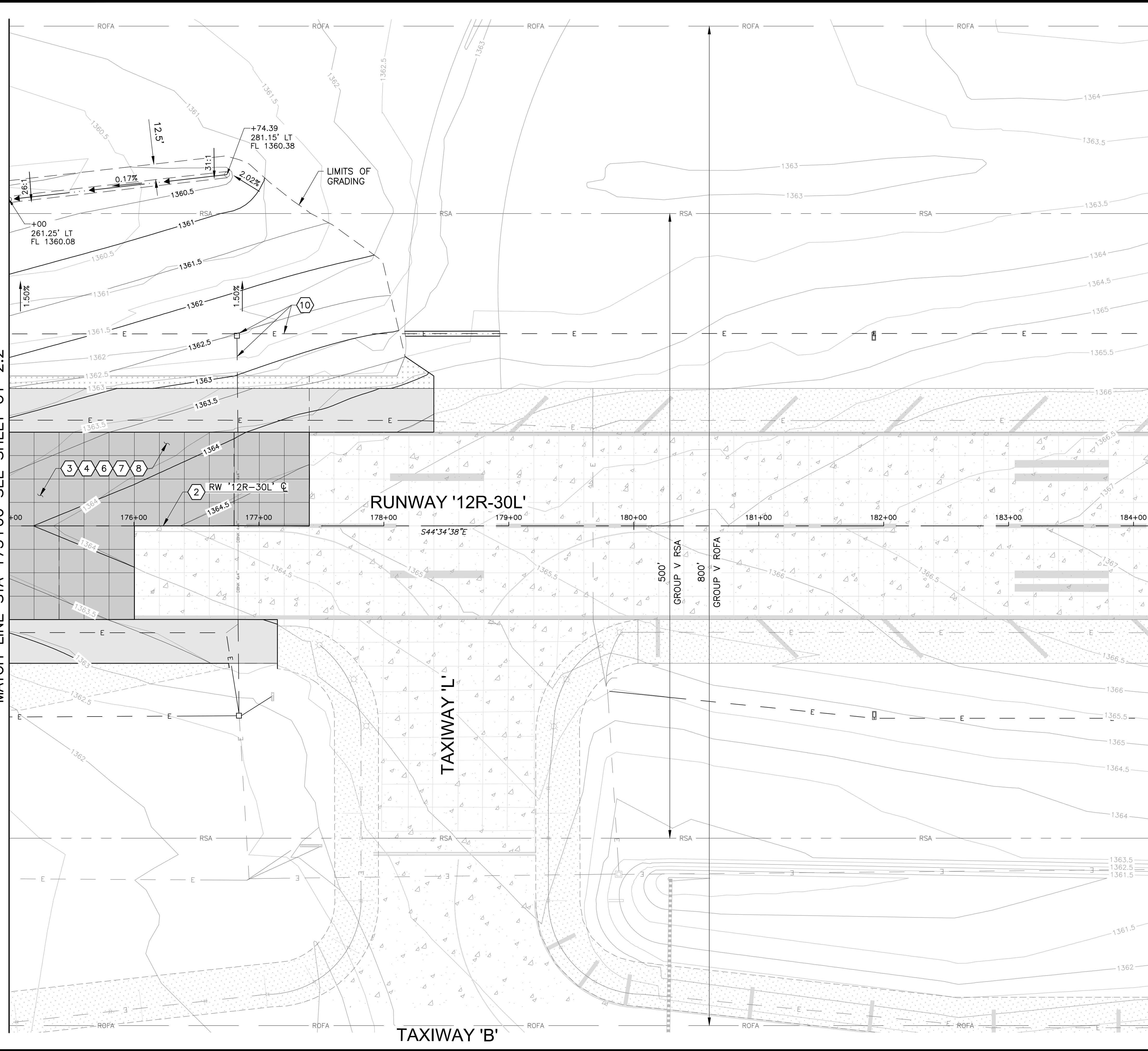


**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) GRADING & DRAINAGE PLAN
STA 166+00 TO STA 175+00**



FILE:J:\2020\1020023.2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-2_X-GRAD_BB.dwg DATE:April 26, 2023 TIME:12:03 PM BY:travis_woodman

MATCH LINE STA 175+00 SEE SHEET C1-2.2



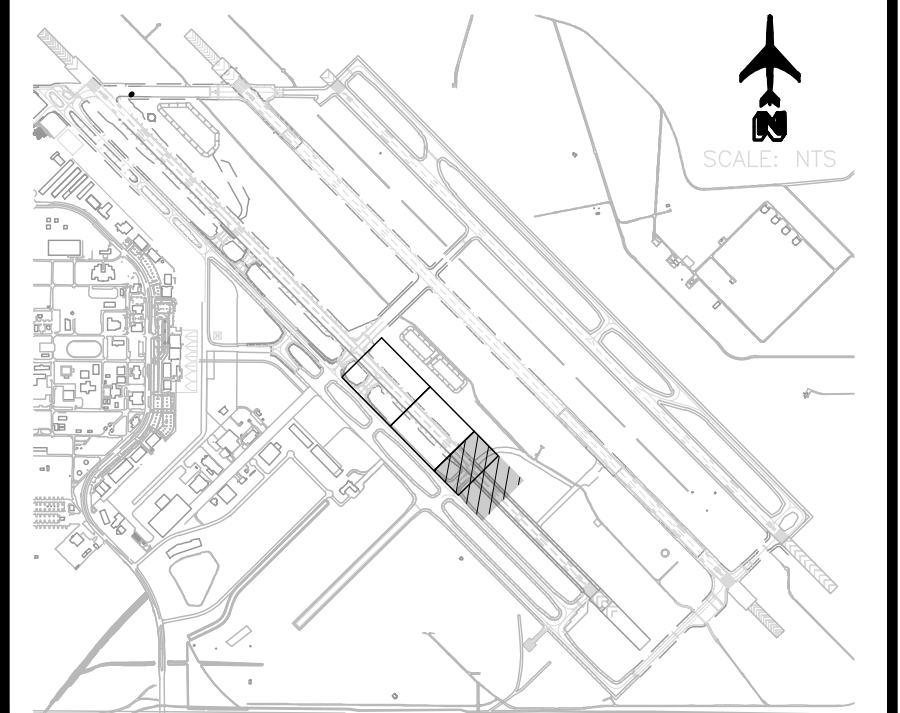
REFERENCE NOTES

- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
- 3 REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
- 4 REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
- 6 REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
- 7 REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
- 8 REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
- 10 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7

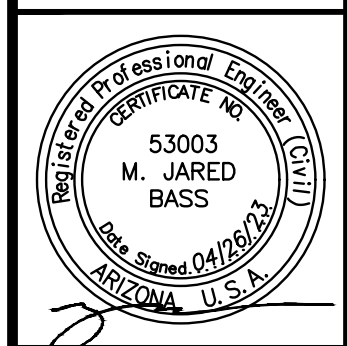
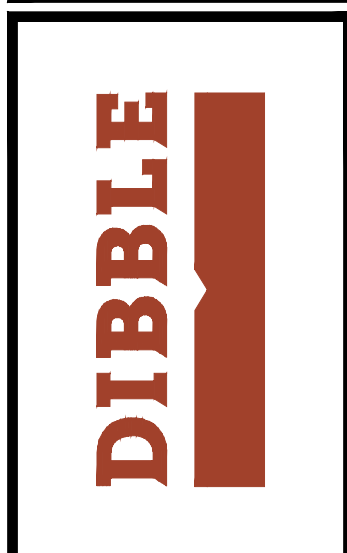
LEGEND

- EXST PCCP
- EXST AC PAVEMENT
- RUNWAY PCCP SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
- SHOULDER STABILIZATION SECT 4, SHT G1-3.1

KEYMAP



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-2_X-GRAD_BB

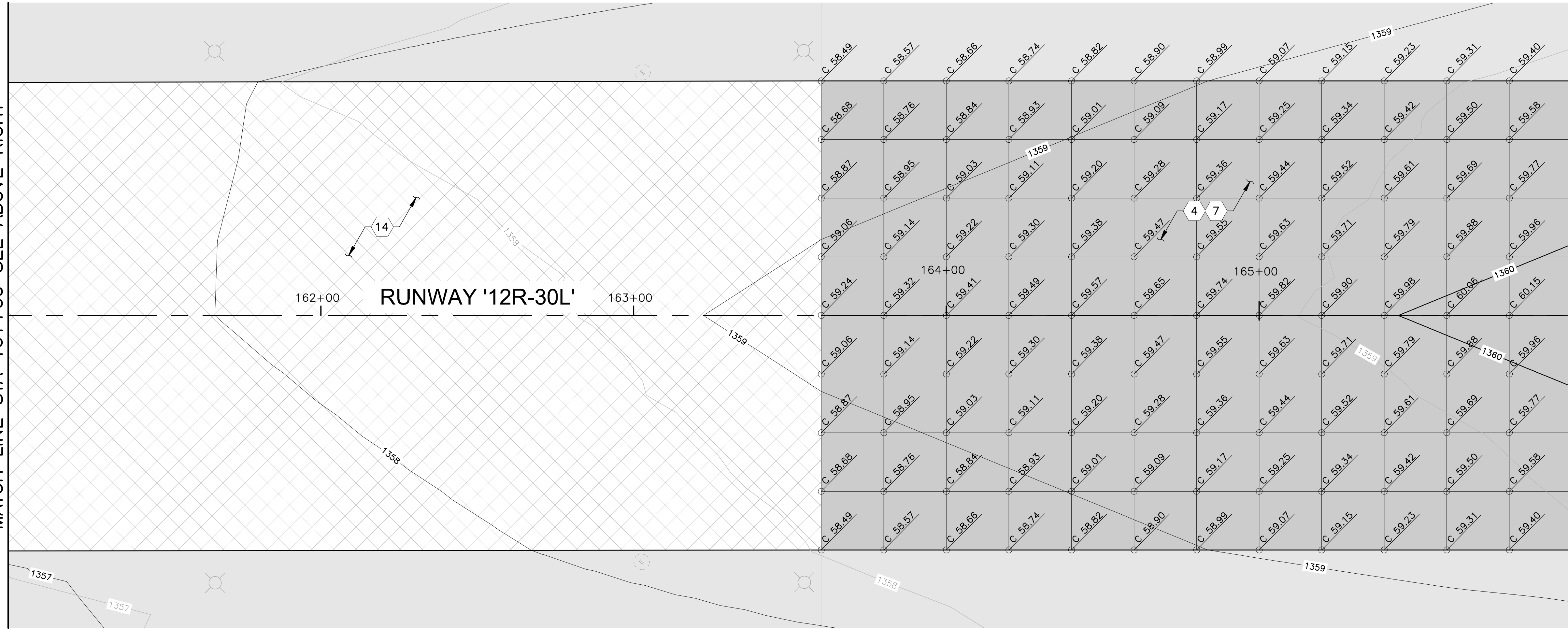


**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) GRADING & DRAINAGE PLAN
STA 175+00 TO STA 179+00**

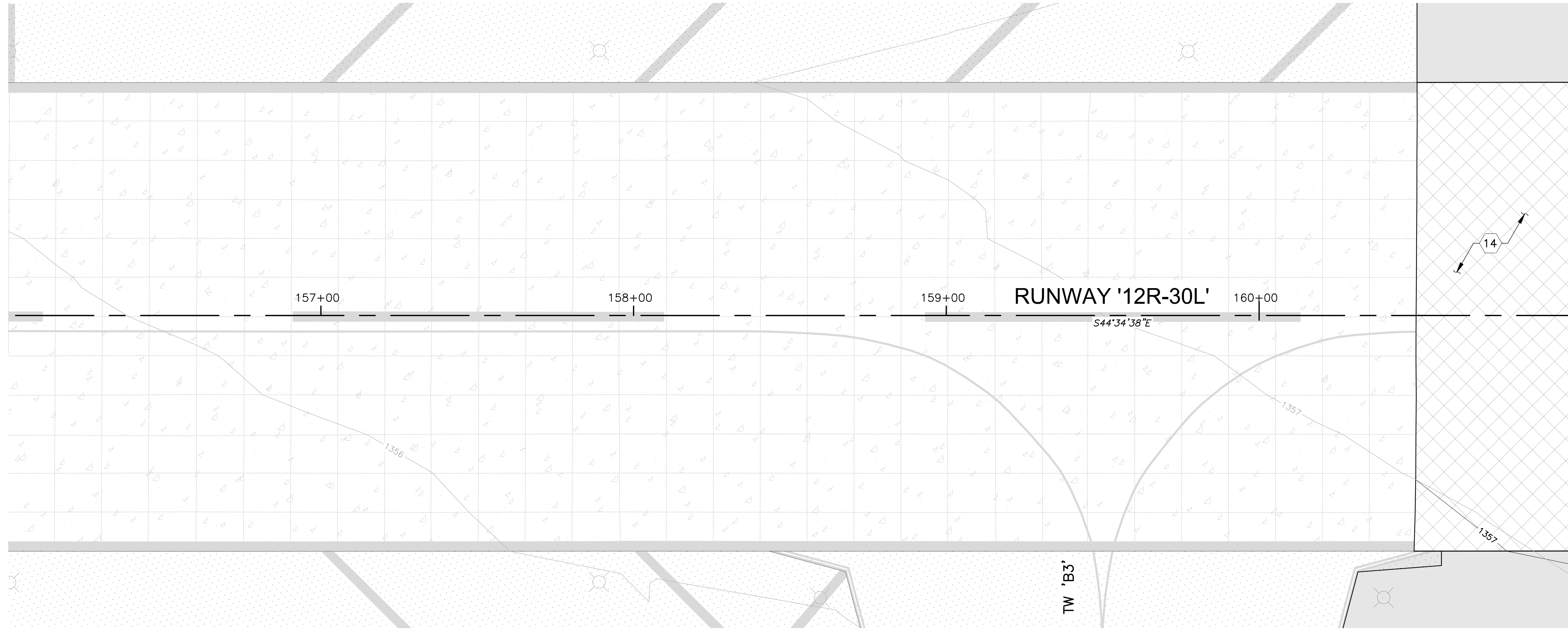
C1-2.3
SHEET NO.
23 OF **211**

FILE:J:\2020\10202023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\2023\2303-C1-3-X-ELEV-BB.dwg DATE:April 26, 2023 TIME:12:04 PM BY:travis woodman

MATCH LINE STA 161+00 SEE ABOVE RIGHT



MATCH LINE STA 166+00 SEE SHEET C1-3.2



MATCH LINE STA 161+00 SEE BELOW LEFT

LEGEND

- C.XX.XX PROPOSED SPOT ELEV (+1300)
- ⊙ PCCP JOINT (+1300)
- + C.XX.XX EXISTING SPOT ELEV (+1300)
- ⊙ PCCP JOINT (+1300)
- P.XX.XX PROPOSED AC PAVEMENT SPOT ELEV (+1300)

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C2-3.2

KEYMAP

REFERENCE NOTES

- 4 REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
- 7 REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
- 4 REFER TO SHEET C1-1.4 FOR ASPHALT TRANSITION PAVEMENT ELEVATIONS

LEGEND

- C.XX.XX PROPOSED SPOT ELEV (+1300)
- ⊙ PCCP JOINT (+1300)
- + C.XX.XX EXISTING SPOT ELEV (+1300)
- ⊙ PCCP JOINT (+1300)
- P.XX.XX PROPOSED AC PAVEMENT SPOT ELEV (+1300)

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C2-3.2

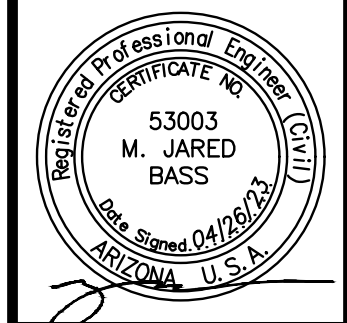
0' 10' 20' 40'

SCALE: 1"=20'

**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT ELEVATION PLAN
STA 156+00 TO STA 166+00**

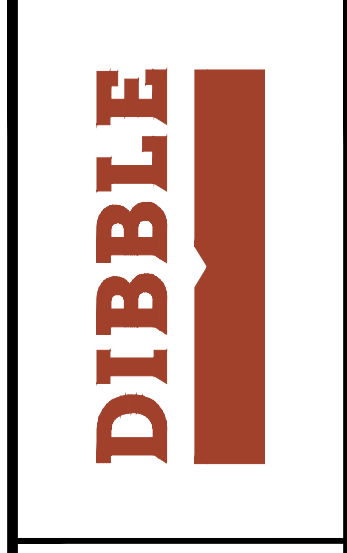
C1-3.1

SHEET NO.
24 OF **211**

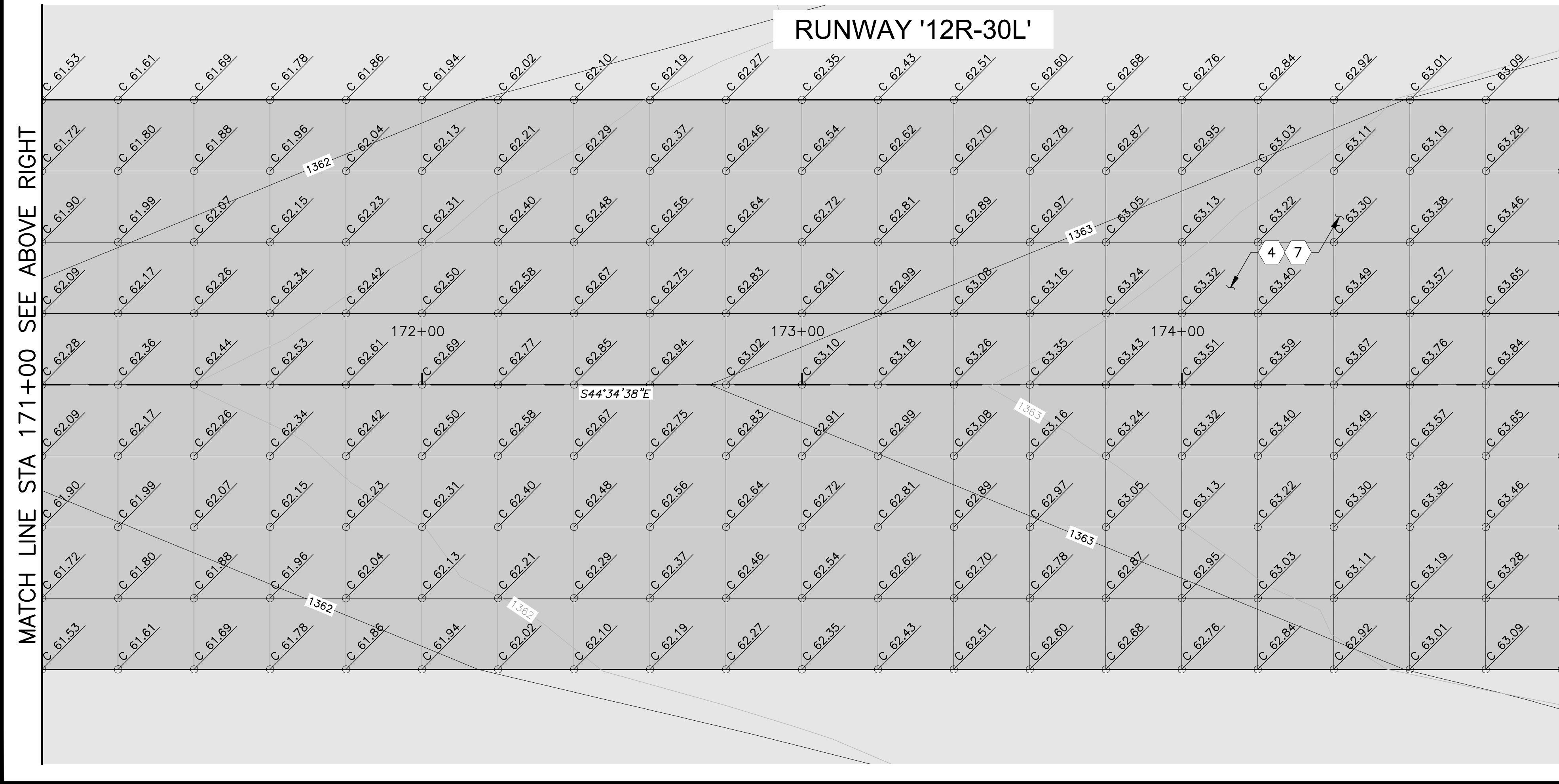
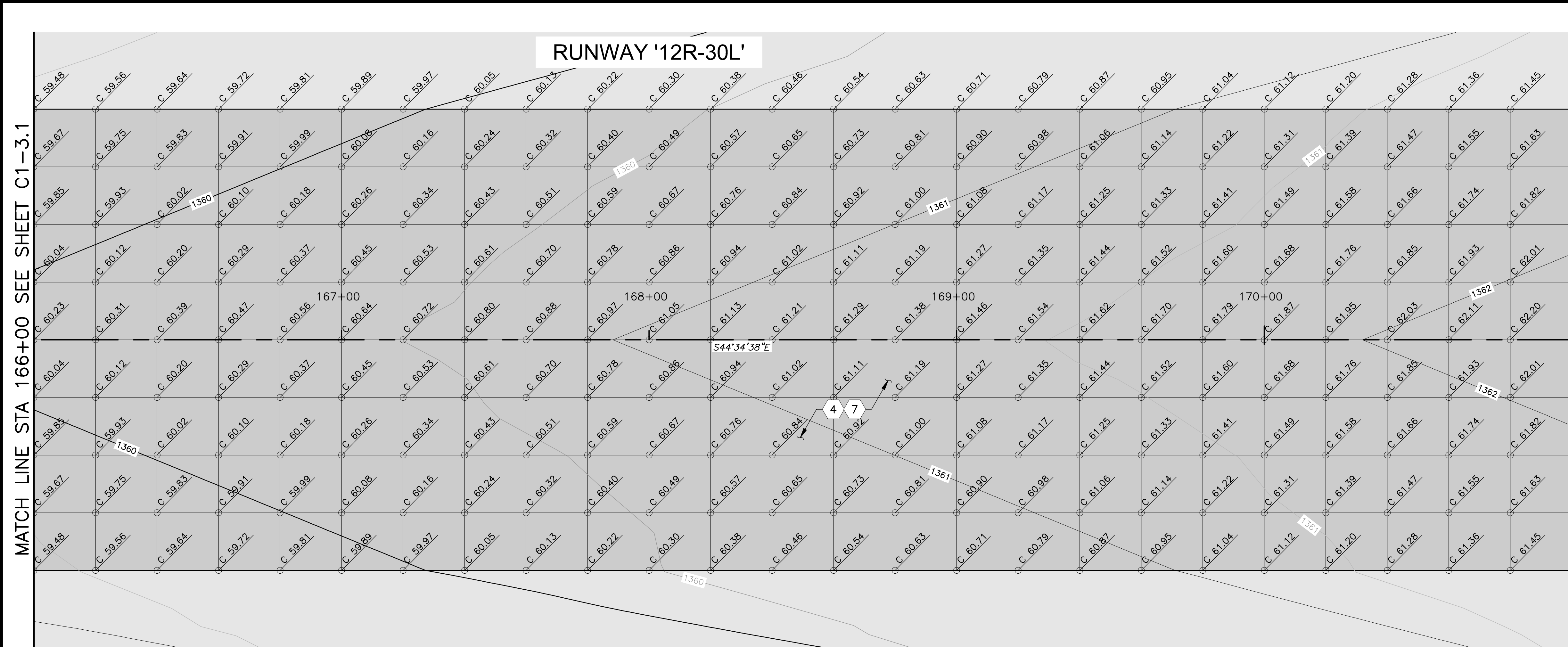


DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	2023_2303-C1-3_X-ELEV_BB

REV	DATE	DESCRIPTION



FILE:J:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-C1-3_X-ELEV_BB.dwg DATE:April 26, 2023 TIME:12:04 PM BY:travis woodman

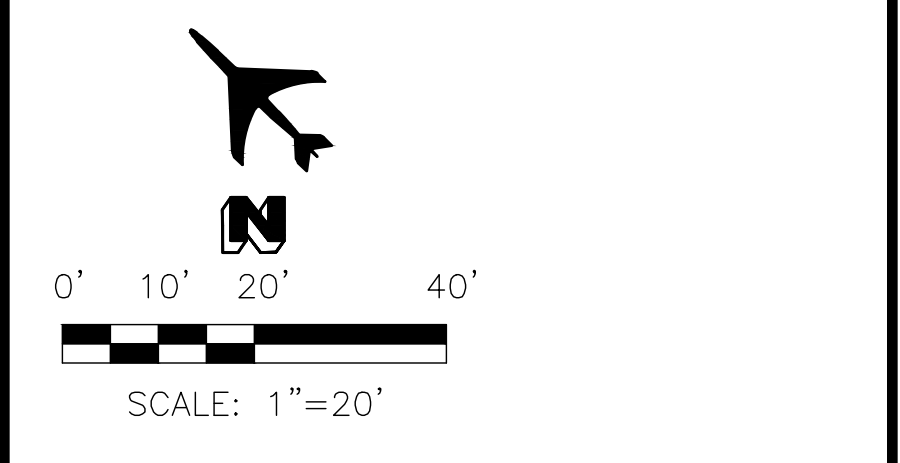


MATCH LINE STA 166+00 SEE SHEET C1-3.1

MATCH LINE STA 171+00 SEE BELOW LEFT

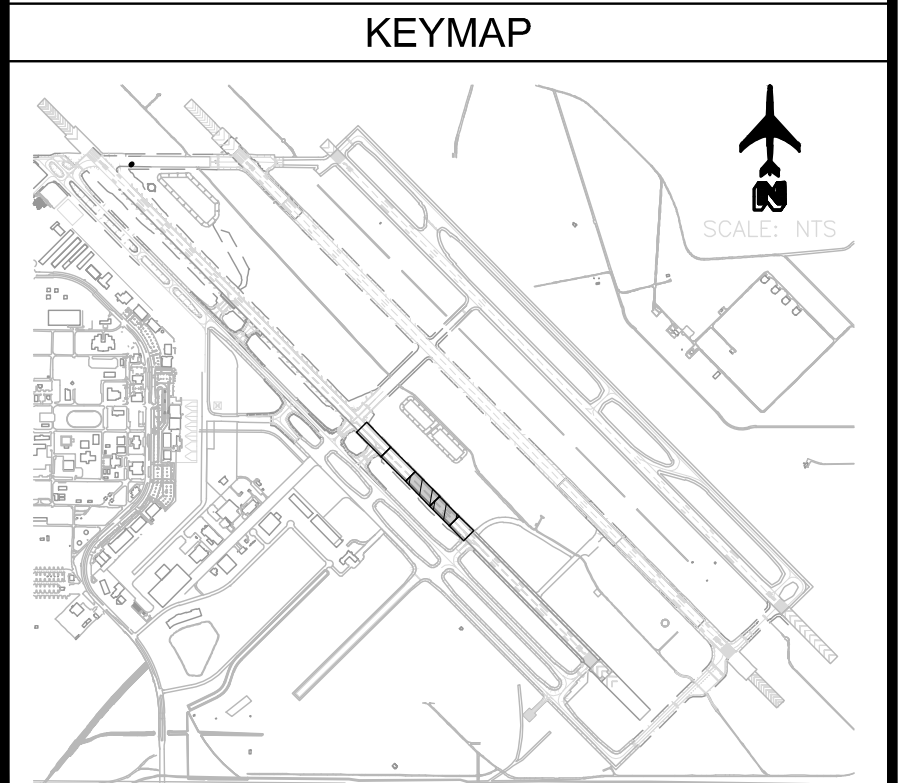
MATCH LINE STA 171+00 SEE ABOVE RIGHT

MATCH LINE STA 175+00 SEE SHEET C1-3.3



- REFERENCE NOTES**
- 4 REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
 - 7 REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4

- LEGEND**
- PROPOSED SPOT ELEV (+1300)
 - EXISTING SPOT ELEV (+1300)



REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-3_X-ELEV_BB



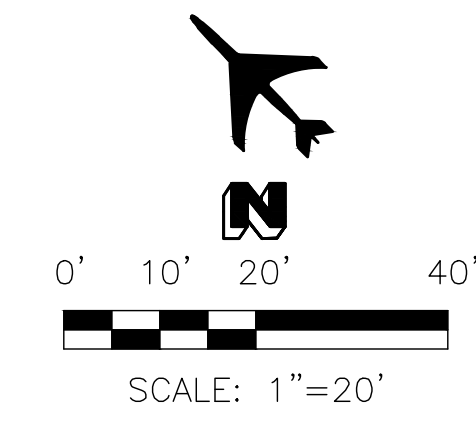
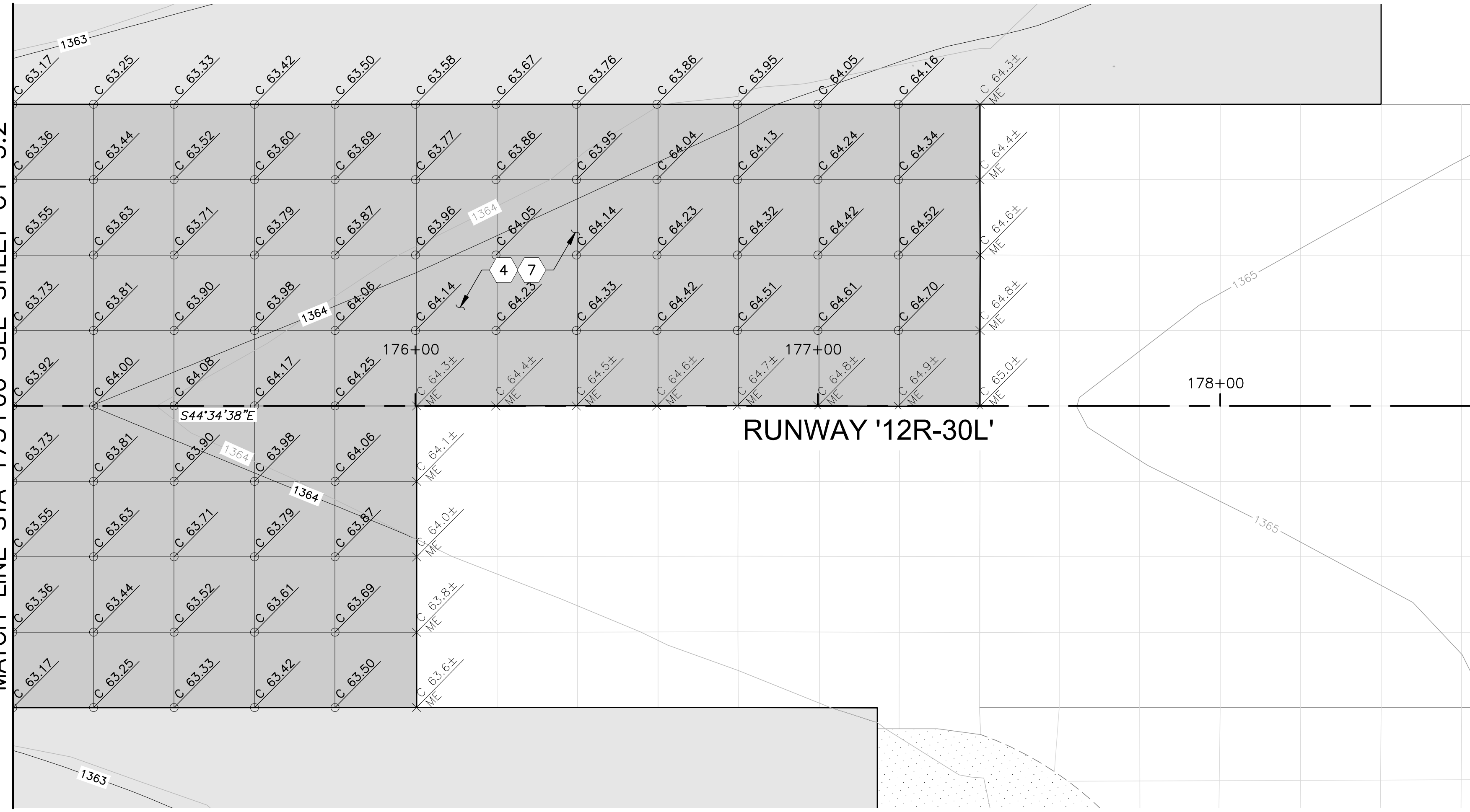
**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT ELEVATION PLAN
STA 166+00 TO STA 175+00**



C1-3.2
SHEET NO.
25 OF **211**

FILE:\2020\1020023.2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-3-X-ELEV_BB.dwg DATE:April 26, 2023 TIME:12:05 PM BY:travis woodman

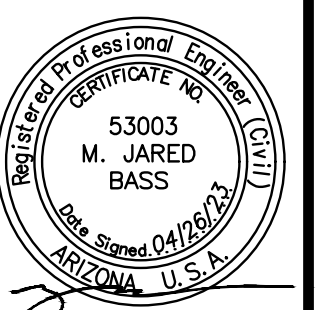
MATCH LINE STA 175+00 SEE SHEET C1-3.2



- REFERENCE NOTES**
- 4 REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
 - 7 REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4

REV	DATE	DESCRIPTION

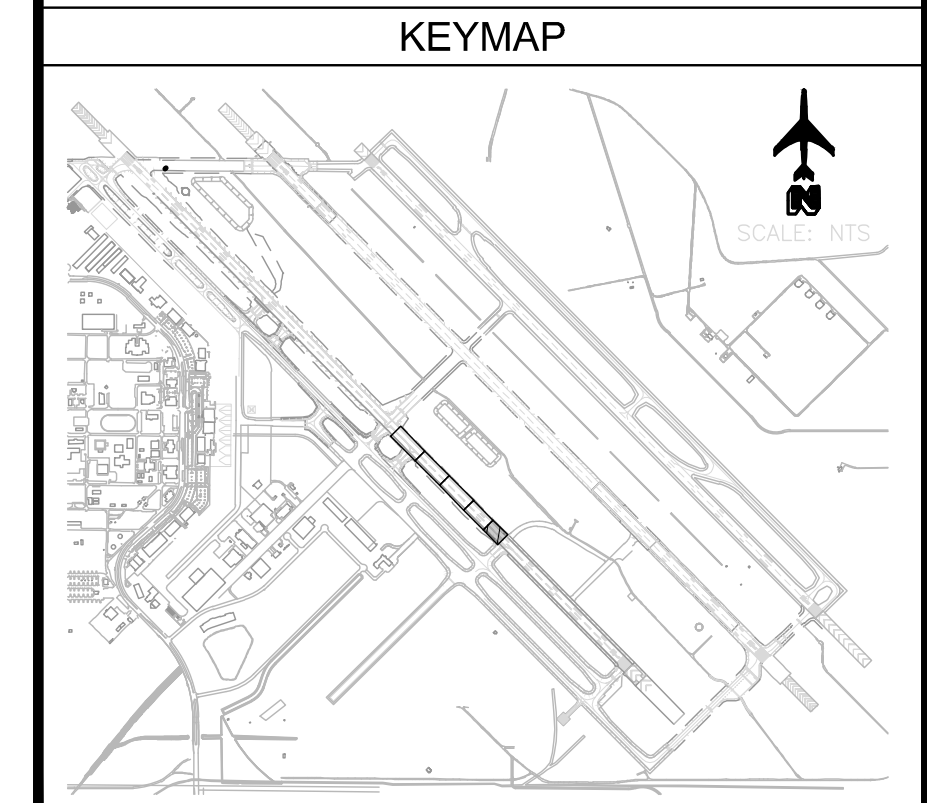
DIBBLE



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2002_2303-C1-3-X-ELEV_BB



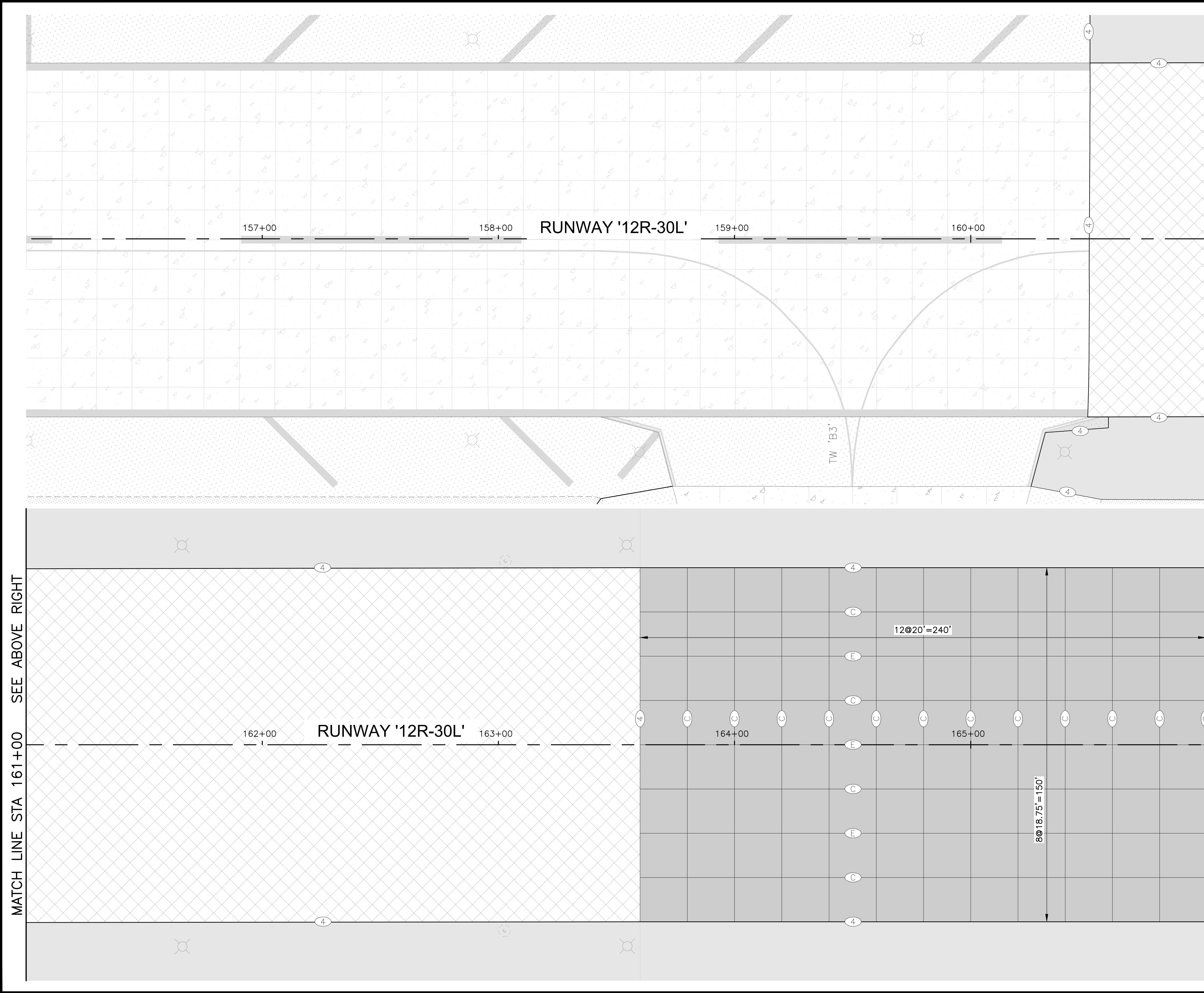
- LEGEND**
- PROPOSED SPOT ELEV (+1300)
 - EXISTING SPOT ELEV (+1300)
 - PCCP JOINT



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT ELEVATION PLAN
STA 175+00 TO STA 179+00**

C1-3.3
SHEET NO.
26 OF **211**

FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-C1-4_X-JNTS_BB.dwg DATE: April 26, 2023 TIME: 12:05 PM BY: travis woodman



MATCH LINE STA 161+00 SEE BELOW LEFT

MATCH LINE STA 166+00 SEE SHEET C1-4.2

MATCH LINE STA 161+00 SEE ABOVE RIGHT

LEGEND

	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
(E)	JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4

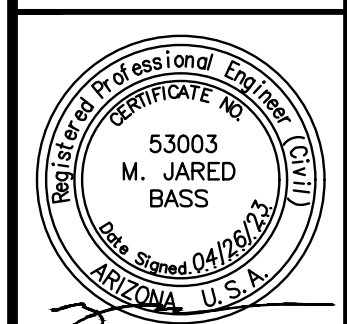
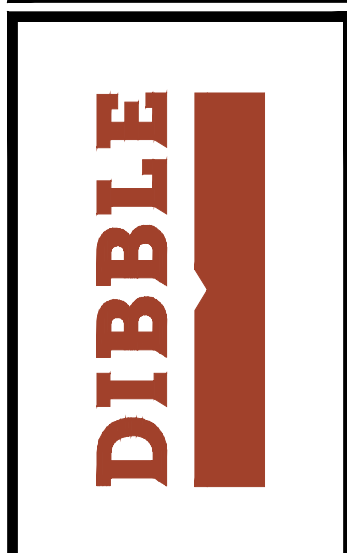
JOINT NOTES

- USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
- USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C2-4.2

KEYMAP

REV	DATE	DESCRIPTION



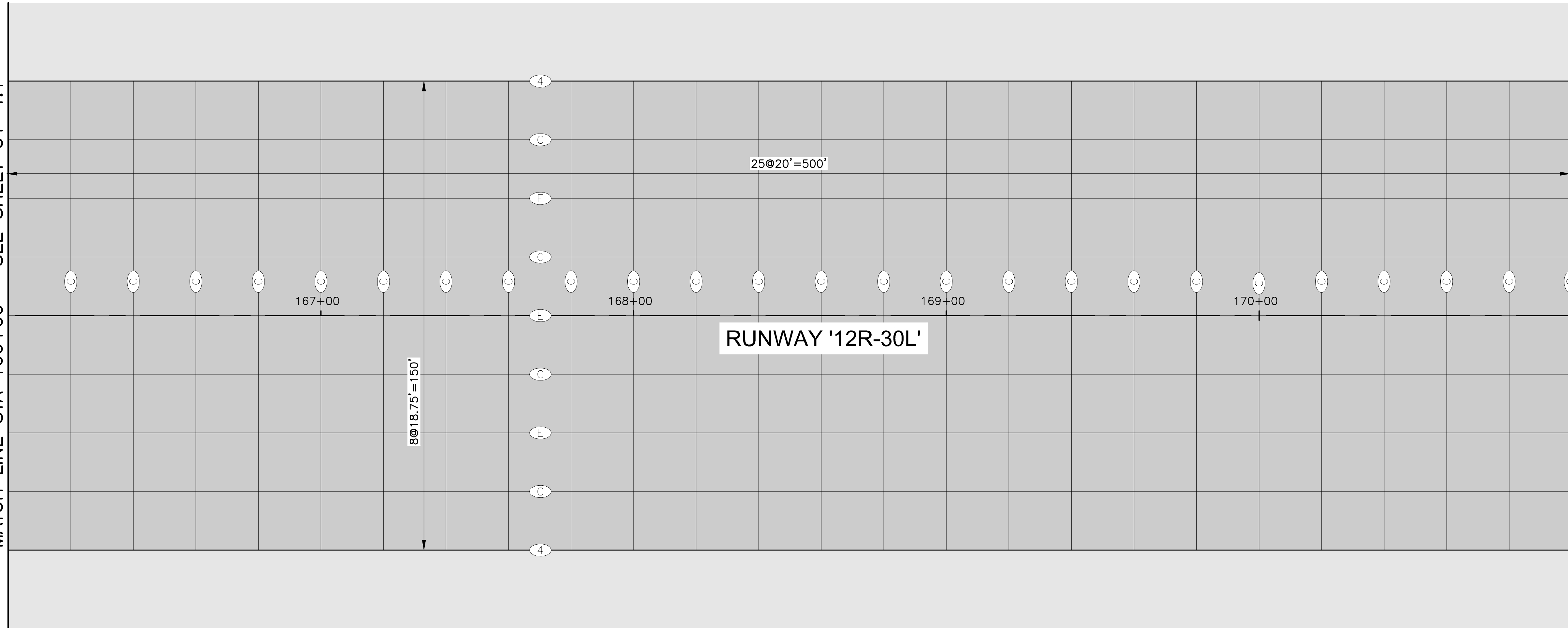
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-4_X-JNTS_BB



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) JOINT LAYOUT PLAN
STA 156+00 TO STA 166+00**

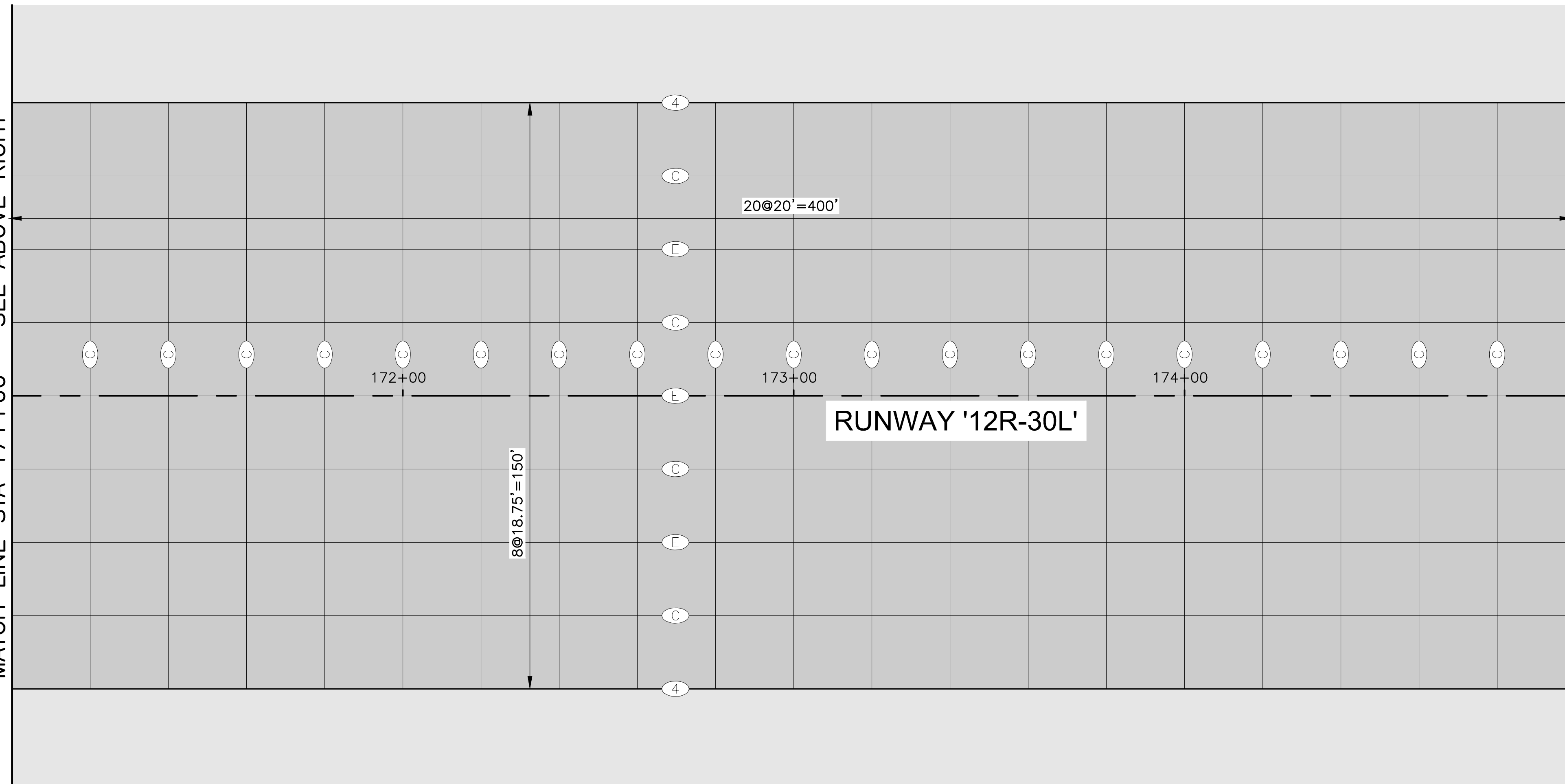
FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-C1-4_X-JNTS_BB.dwg DATE: April 26, 2023 TIME: 12:06 PM BY: travis woodman

MATCH LINE STA 166+00 SEE SHEET C1-4.1

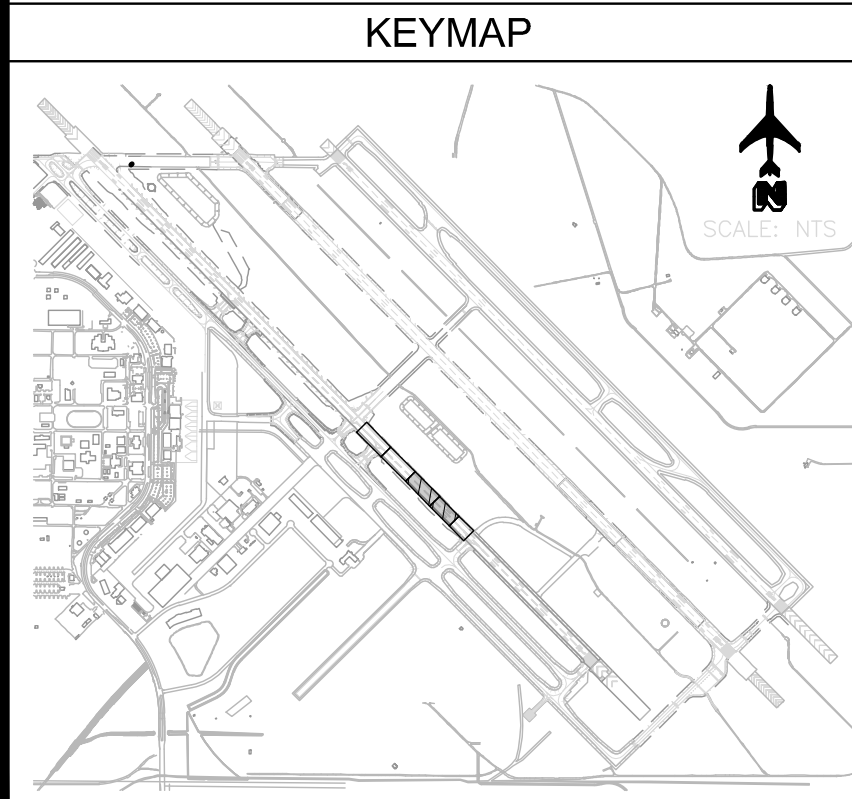


MATCH LINE STA 171+00 SEE BELOW LEFT

MATCH LINE STA 171+00 SEE ABOVE RIGHT



MATCH LINE STA 175+00 SEE SHEET C1-4.3



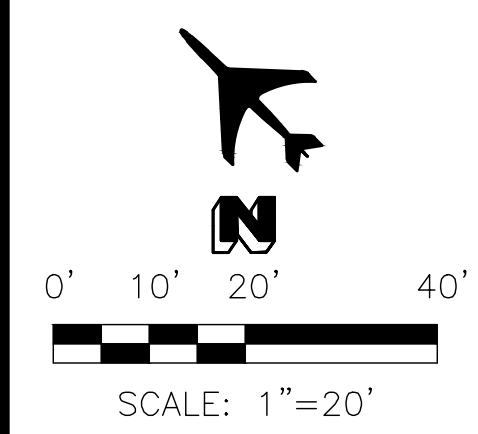
KEYMAP

LEGEND

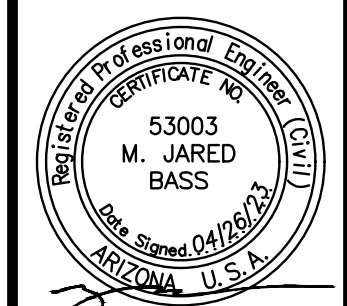
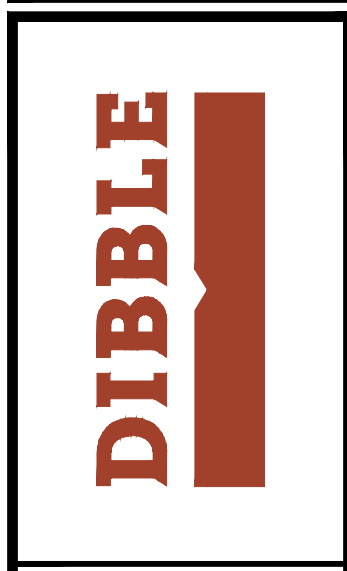
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4

JOINT NOTES

- USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
- USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C1-4_X-JNTS_BB

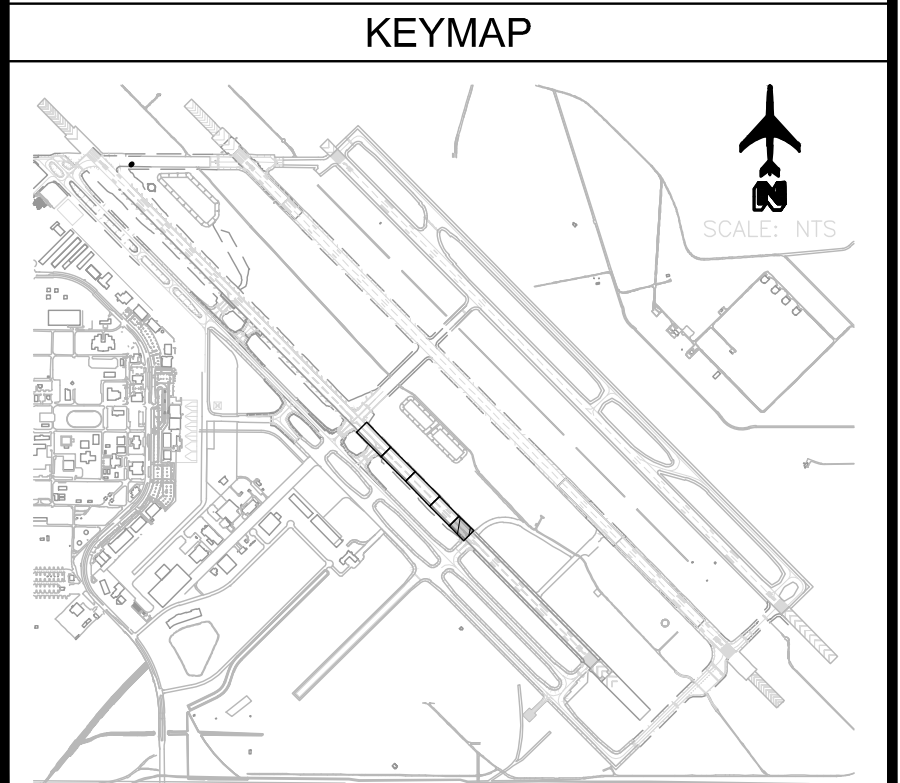
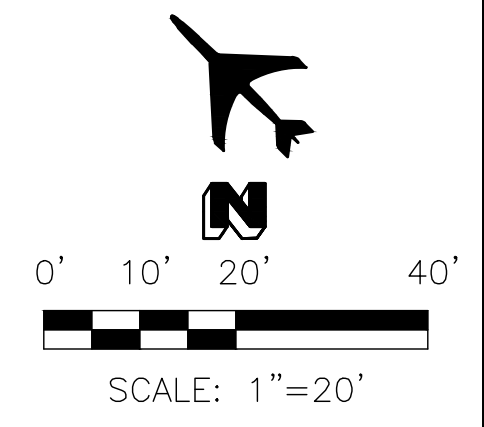
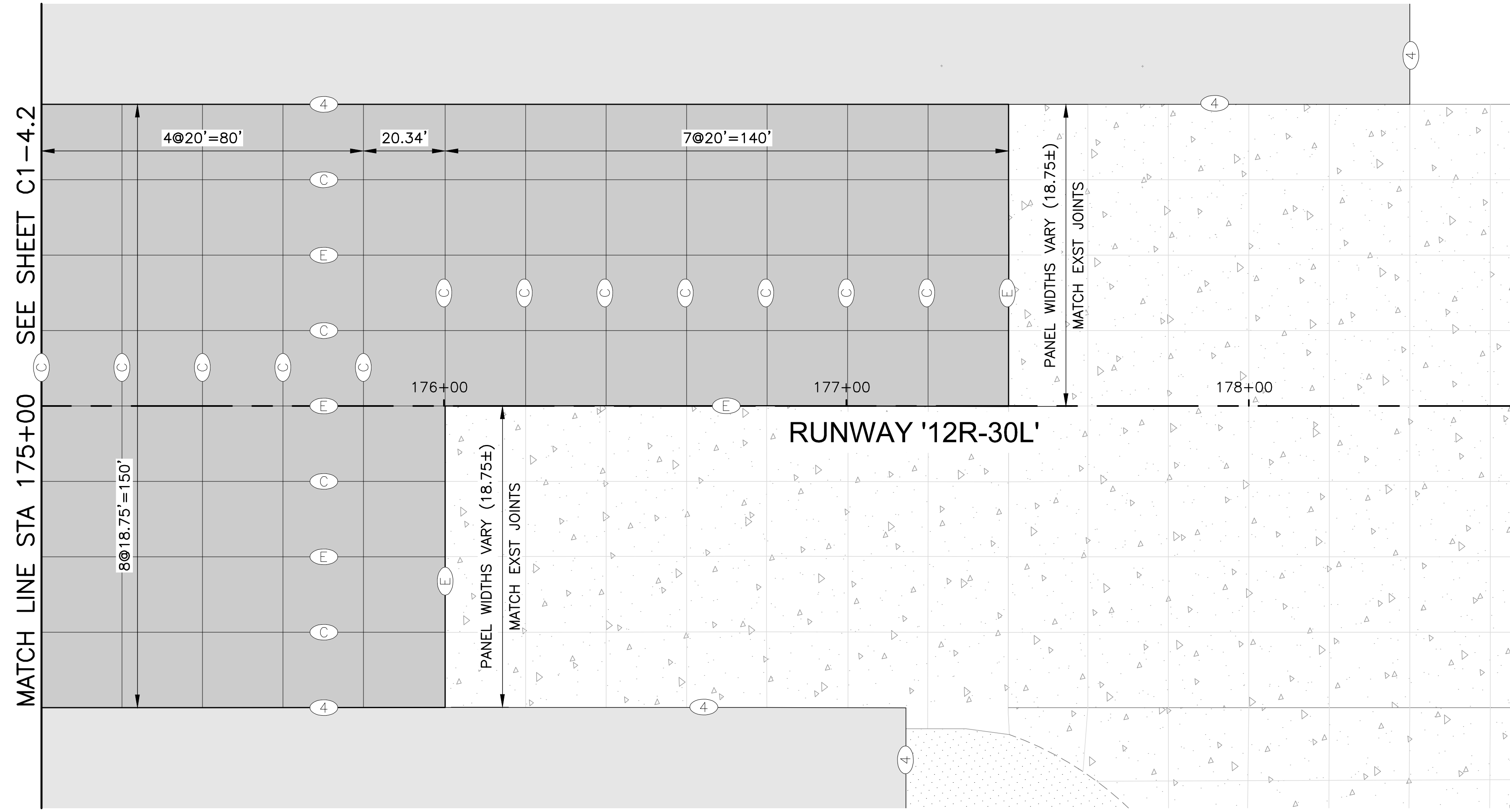


**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) JOINT LAYOUT PLAN
STA 166+00 TO STA 175+00**

C1-4.2
SHEET NO.
28 OF **211**



FILE: \\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-4_X-INTS_BB.dwg DATE: April 26, 2023 TIME: 12:06 PM BY: travis_woodman



LEGEND

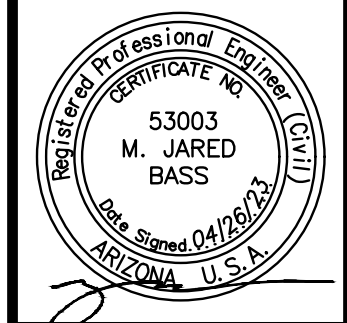
- EXST PCCP
- EXST AC PAVEMENT
- RUNWAY PCCP SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
- JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4

JOINT NOTES

1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.

**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) JOINT LAYOUT PLAN
STA 175+00 TO STA 179+00**

C1-4.3
SHEET NO.
29 OF **211**

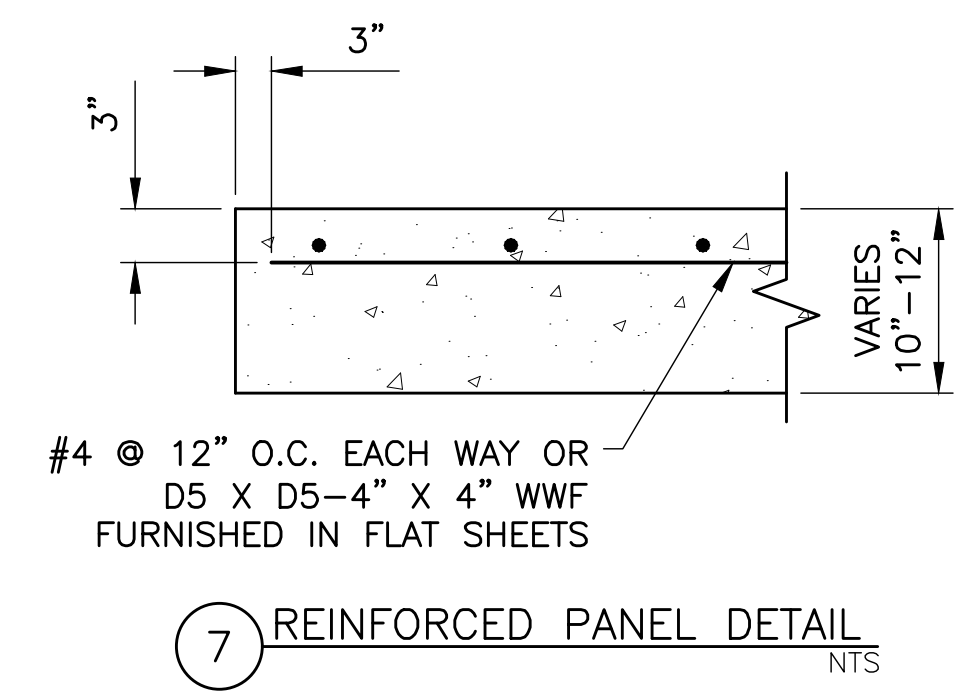
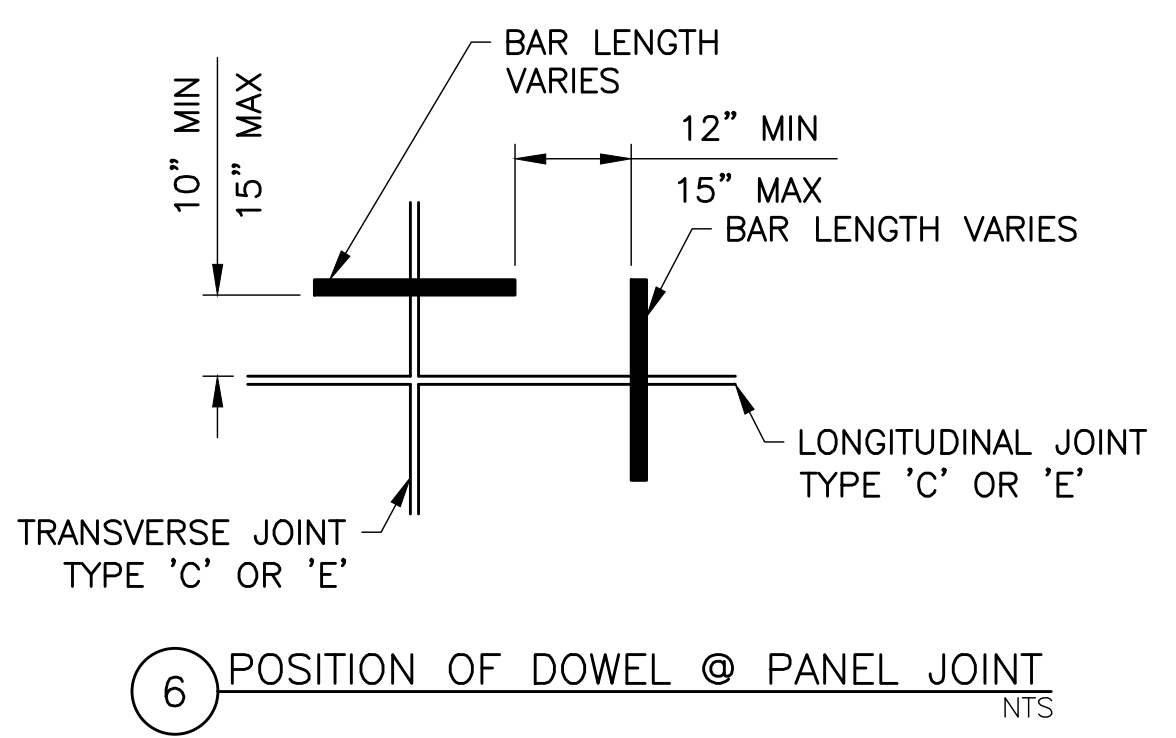
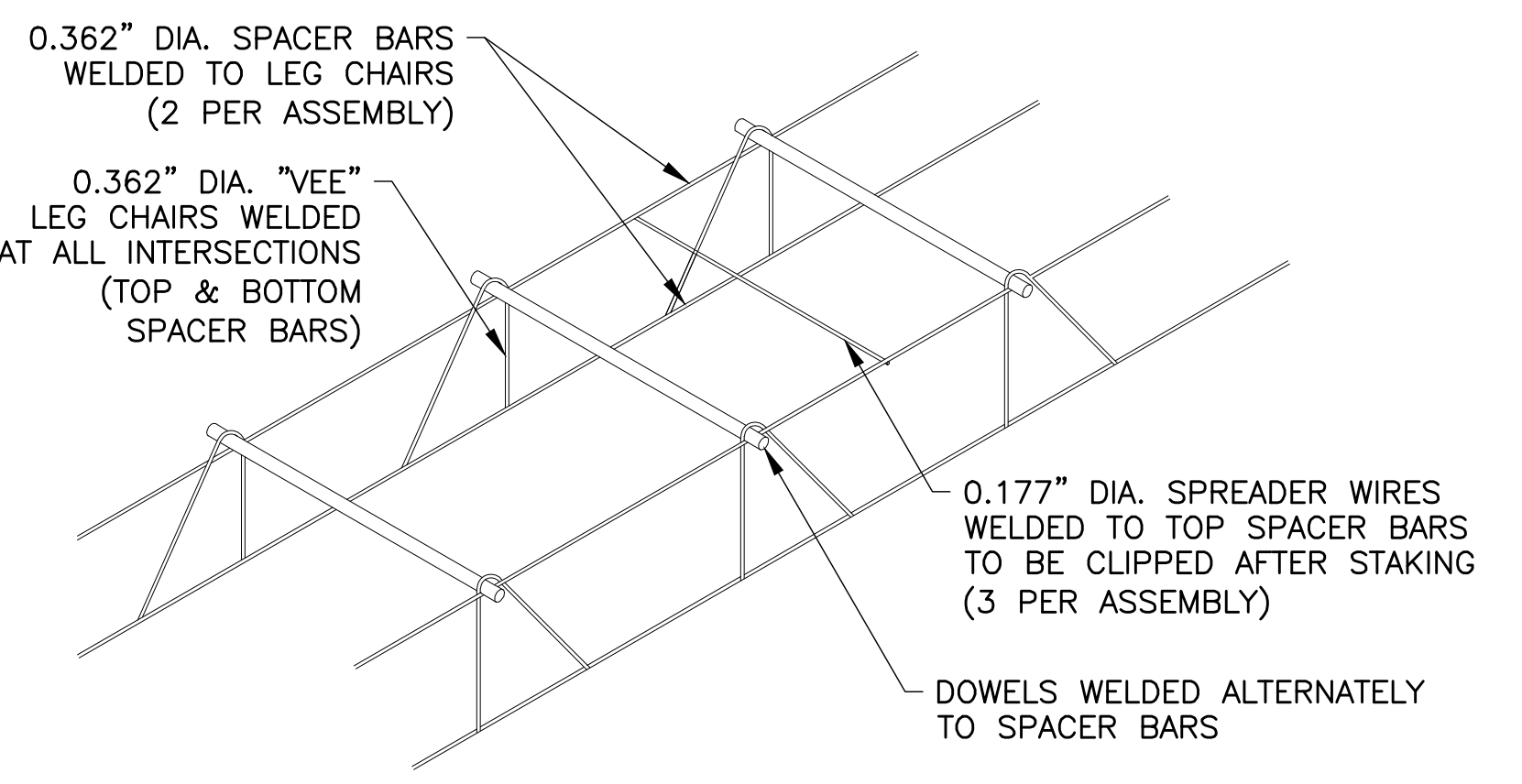
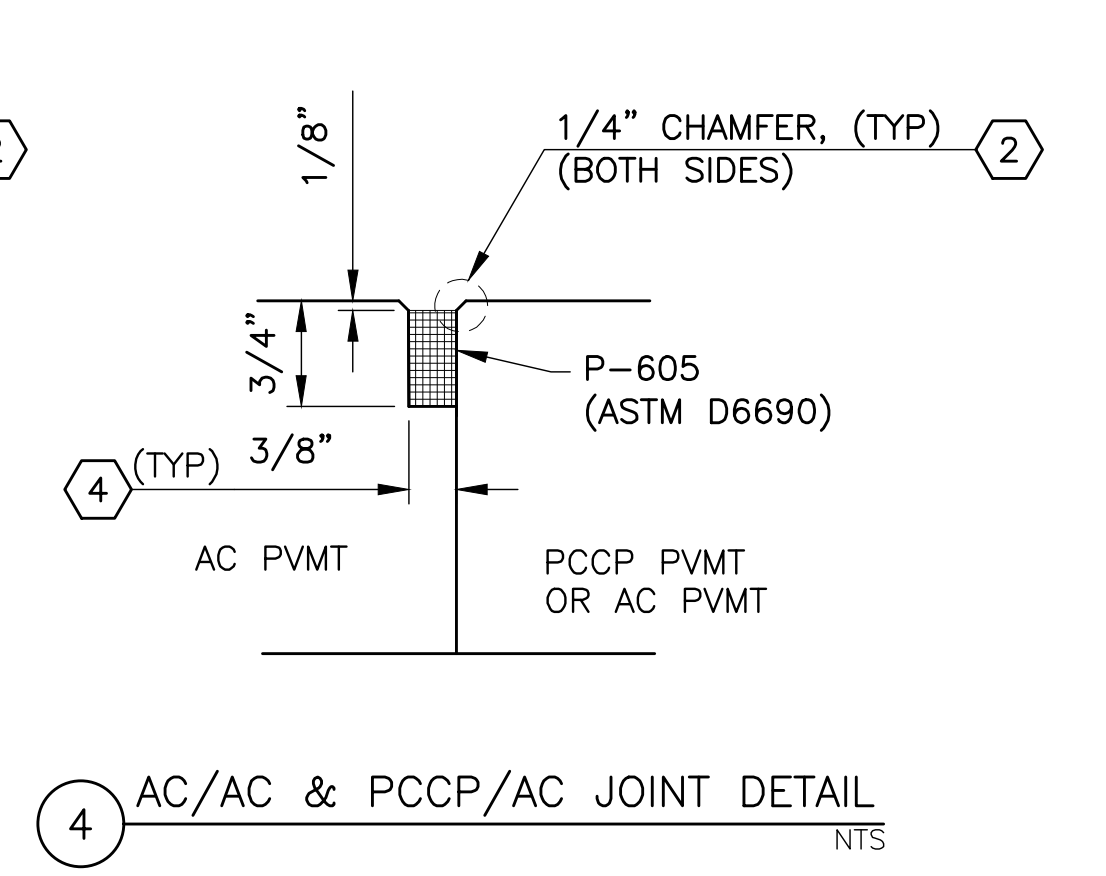
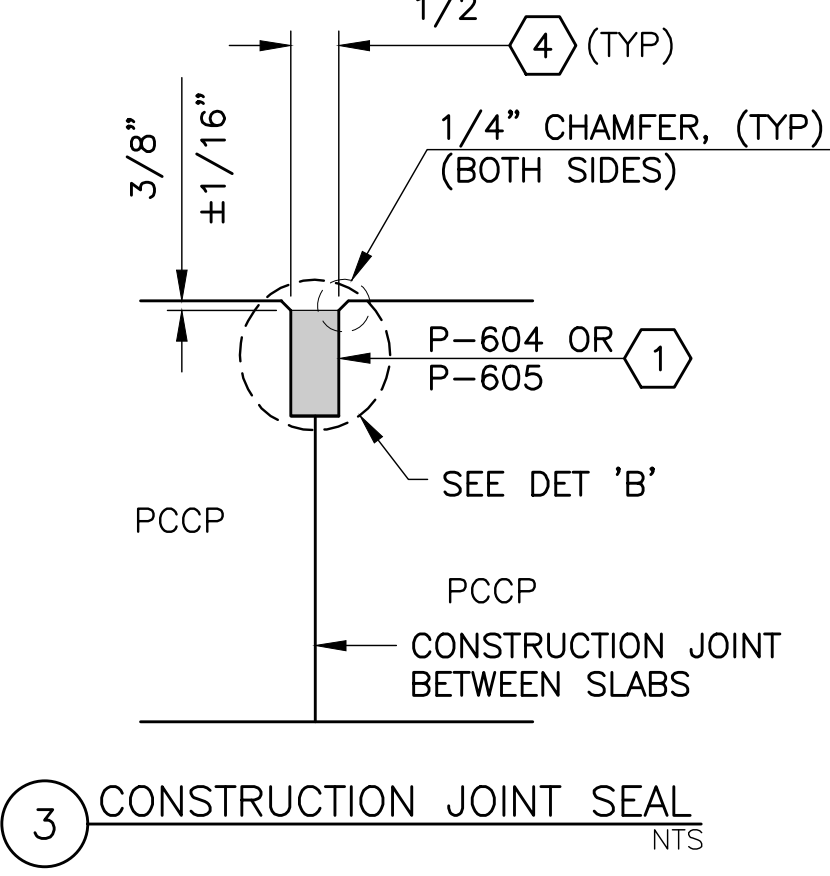
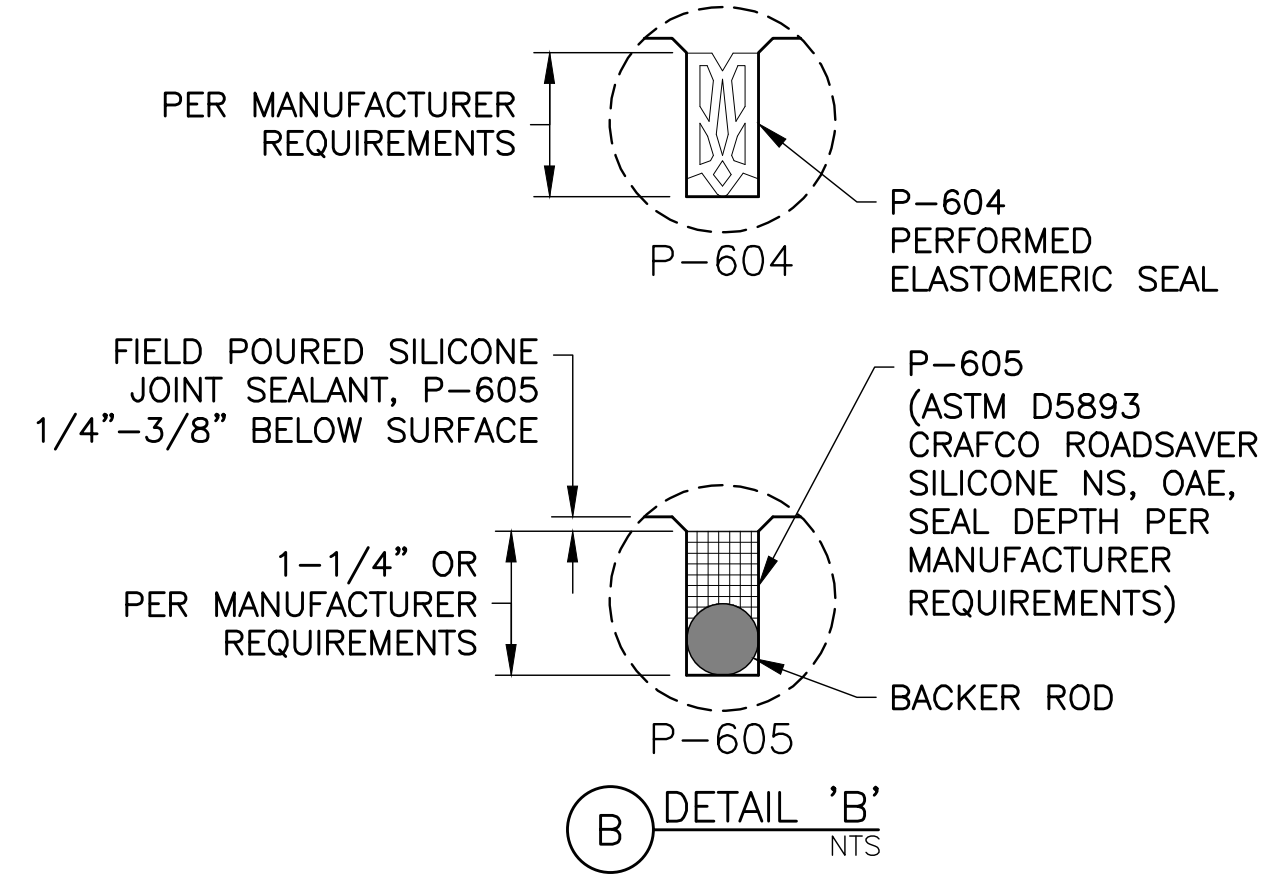
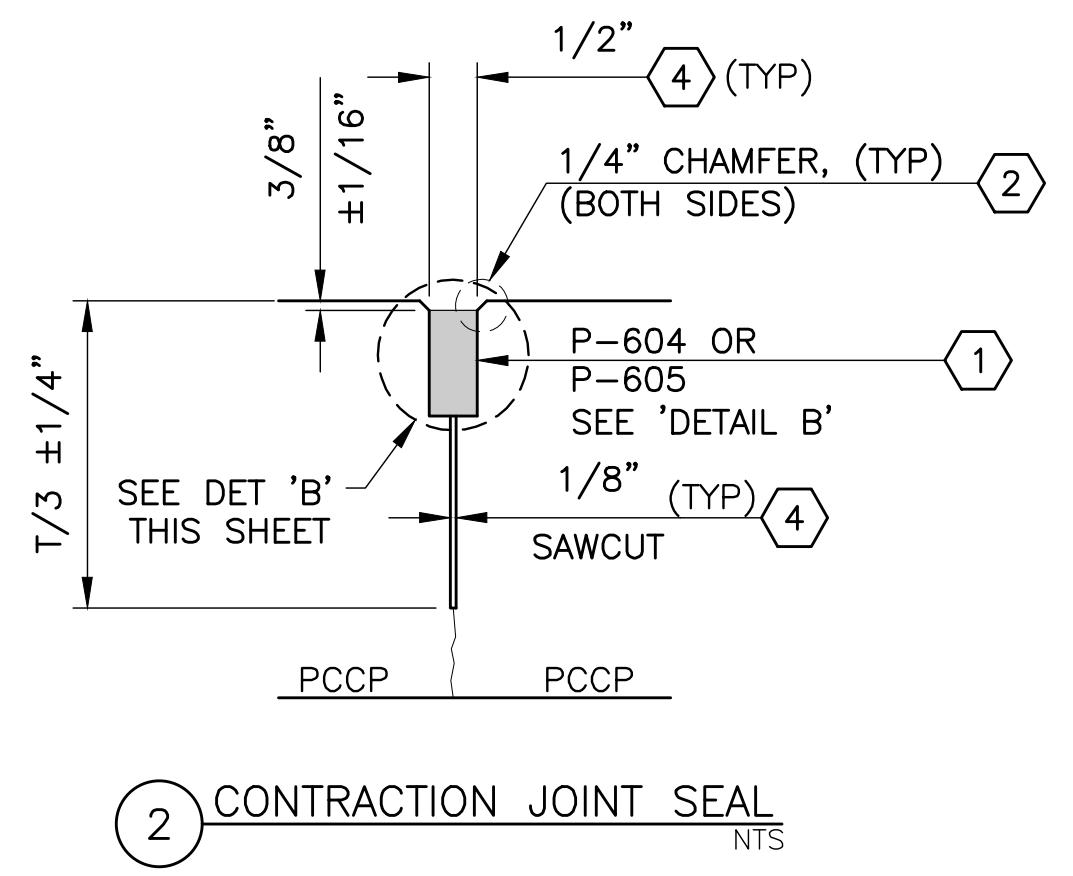
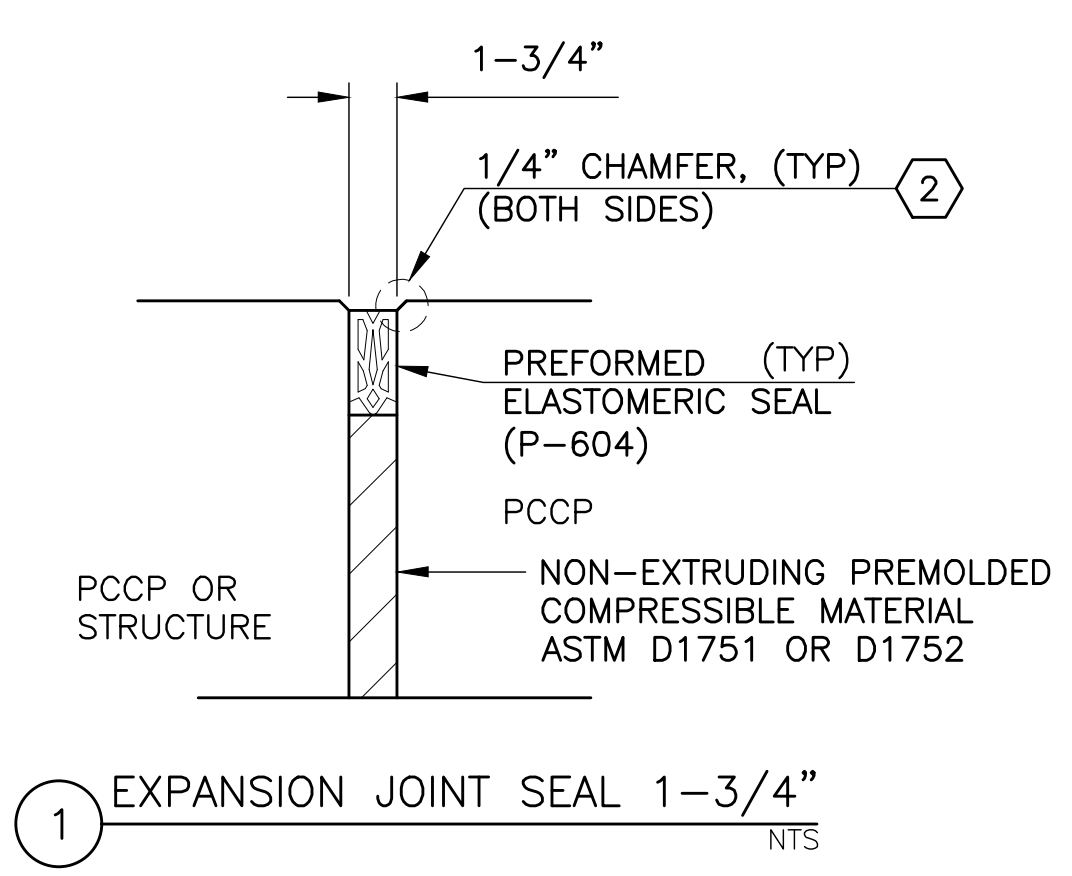
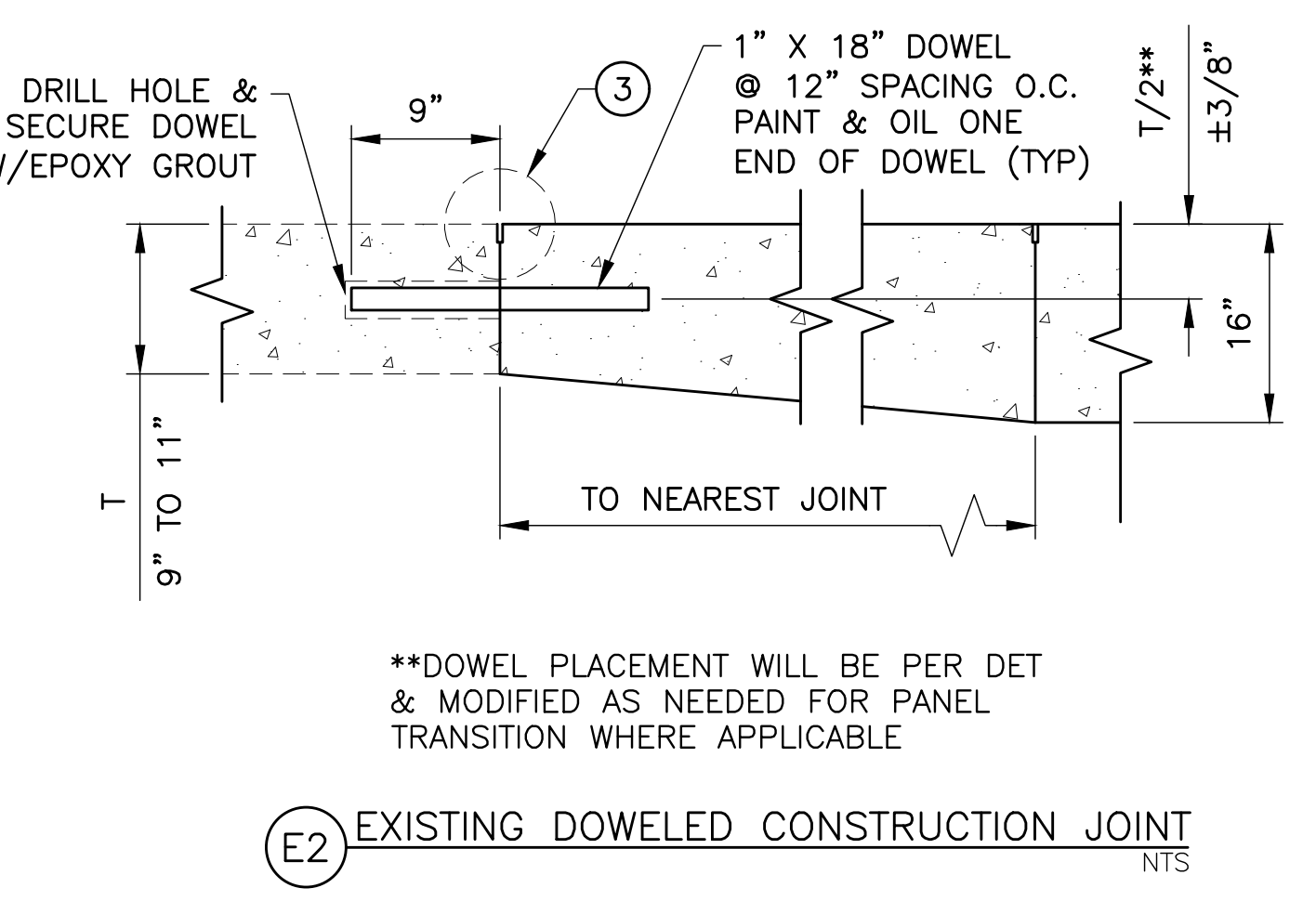
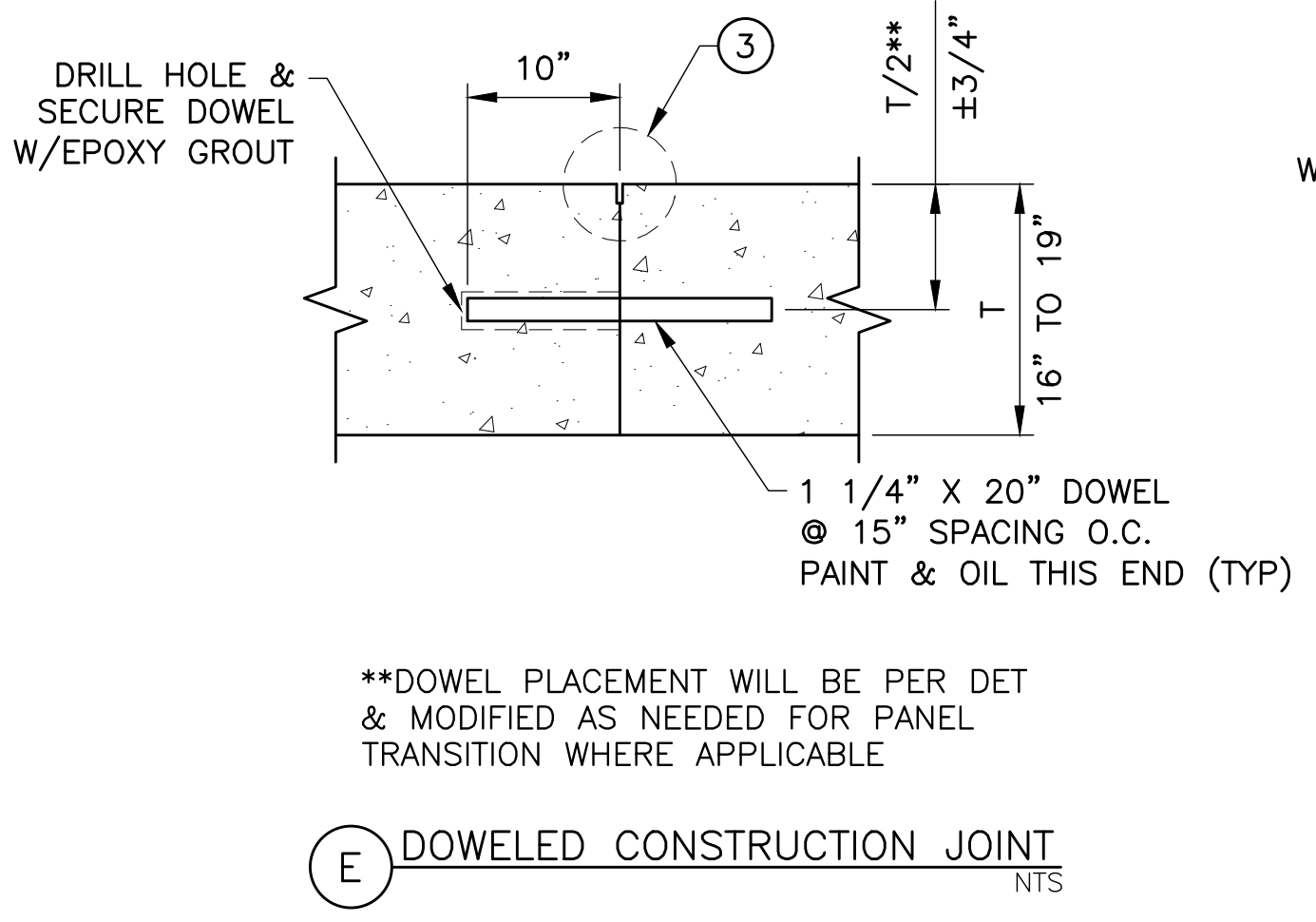
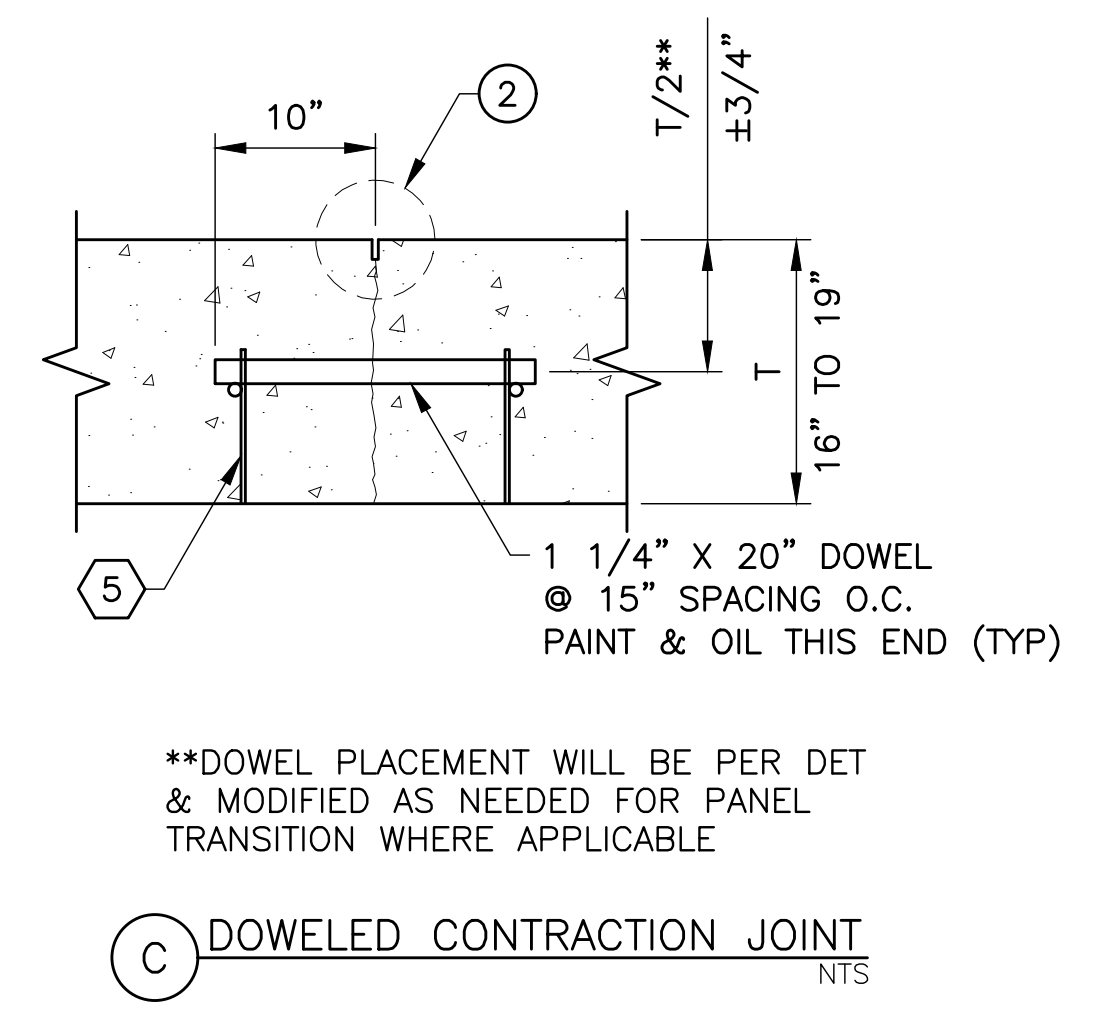
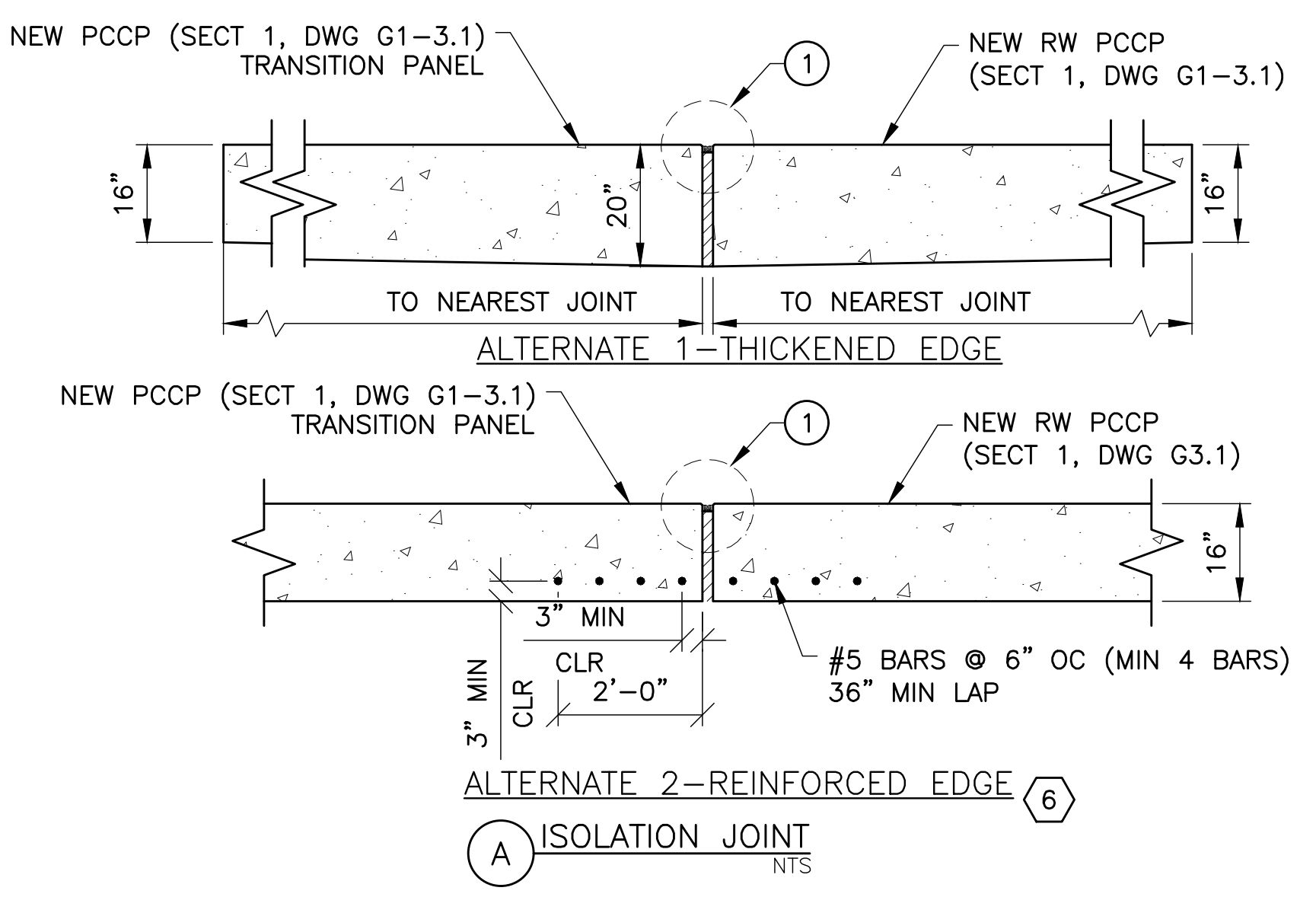


DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 2003_2303-C1-4_X-INTS_BB



REV	DATE	DESCRIPTION

FILE: 2020\1020023\2303_PMG04_RW_12R-30L_Reconstruction (Design)\CAD\BASE-BID\20023-2303-C1-4_X-INTS-DETL_BB.dwg DATE: April 26, 2023 TIME: 12:06 PM BY: trowis woodman



NOTES

- BASKET SHALL BE FIRMLY ANCHORED TO GRADE
- ALL WIRE SIZES SHOWN ARE MINIMUM SIZE
- DOWELS SHALL BE HELD FIRMLY IN THE ASSEMBLY

5 DOWEL BASKET ASSEMBLY NTS

GENERAL PCCP DETAIL NOTES

- THE CONTRACTOR MAY USE EITHER P-604 PREFORMED ELASTOMERIC OR P-605 SILICONE MATERIAL MEETING ASTM D5893 (CRAFCO SILICONE NS, OAE)
- 1/4" CHAMFER ALL JOINT EDGES
- TYPE E JOINT TO BE USED FOR TRANSVERSE CONSTRUCTION JOINTS BETWEEN PLACEMENTS
- ALL SEALANT AND CRACK-CONTROL JOINTS SHALL BE SAWCUT.
- SEE DOWEL BASKET DET 5 ON THIS SHEET
- REPLACES THICKENED EDGE. CONTRACTOR SHALL SELECT ONE ALTERNATE AND CLEARLY NOTE ON RECORD DRAWINGS

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 Certificate No. 53003
 M. JARED BASS
 License Exp. 04/26/24
 ARIZONA, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023-2303-C1-4_X-INTS-DETL_BB

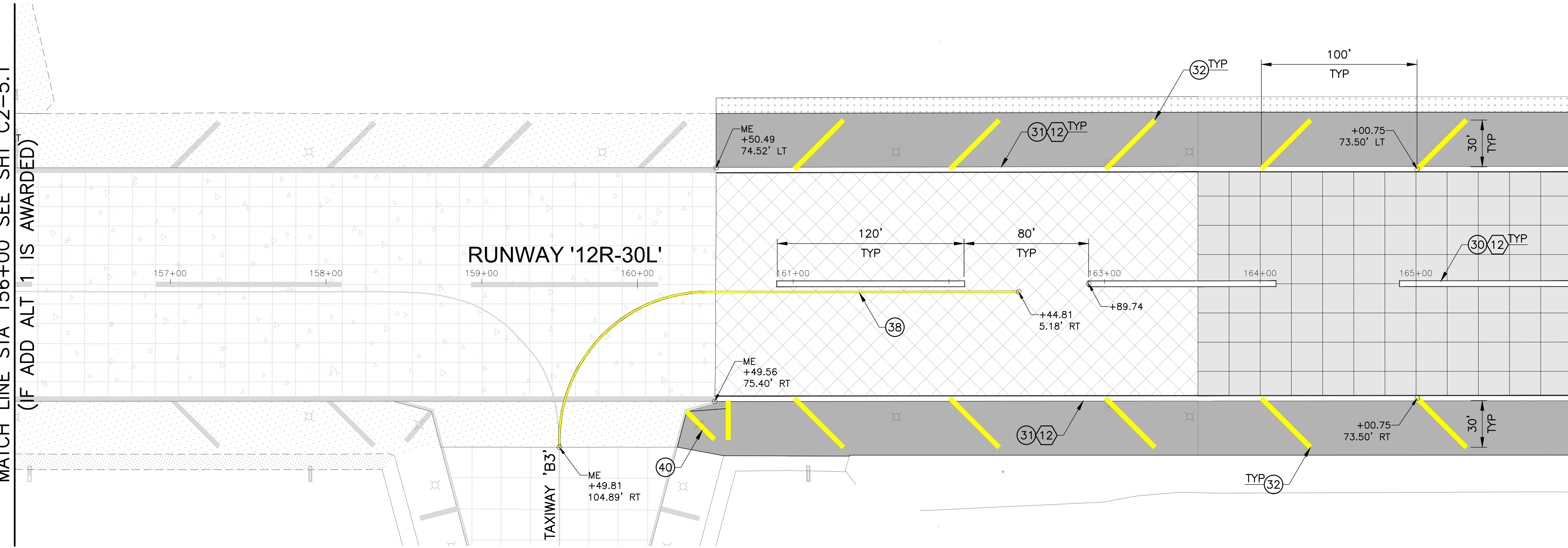


**RUNWAY '12R-30L' RECONSTRUCTION
 BASE BID
 (SCH I) JOINT LAYOUT PLAN
 PCCP JOINT DETAILS**

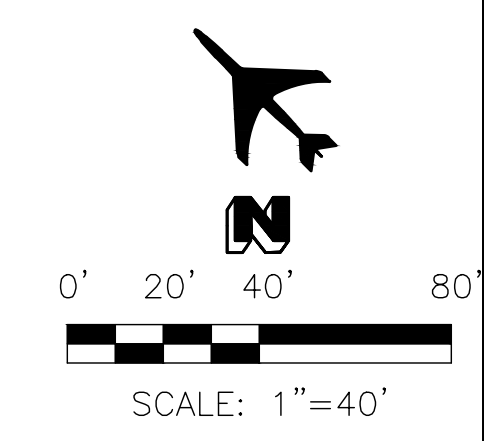


FILE:\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-5-X-MRKG-BB.dwg DATE:April 26, 2023 TIME:12:07 PM Bktrovits woodman

MATCH LINE STA 156+00 SEE SHT C2-5.1
(IF ADD-ALT-1 IS AWARDED)



MATCH LINE STA 166+00 SEE SHEET C1-5.2



CONSTRUCTION NOTES		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	3 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	1,099 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	10 EA
38	TAXIWAY CENTERLINE MARKING DET 1, SHT C1-5.4	354 LF
40	TAXIWAY SHOULDER MARKING DET 3, SHT C1-5.4	2 EA

REFERENCE NOTES	
12	BLACK OUTLINE NOT INCLUDED IN DIMENSION

- PAVEMENT MARKING NOTES**
- ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.
 - ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.
 - ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE WILL BE NO SEPARATE MEASUREMENT FOR BLACK PAINT, (FOR SCH I-III ONLY).

NOTE: IF ADD-ALT-1 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C2-5.2

KEYMAP

ARIZONA811
Call at least two full working days before your next excavation.
Dial 8-1-1 or 1-800-874-8247 (TDD-8348)
in Maricopa County (602) 253-1100

REV	DATE	DESCRIPTION

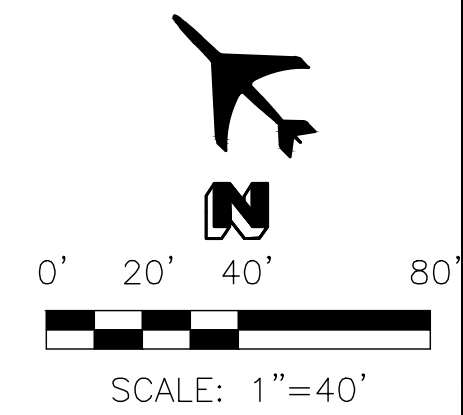
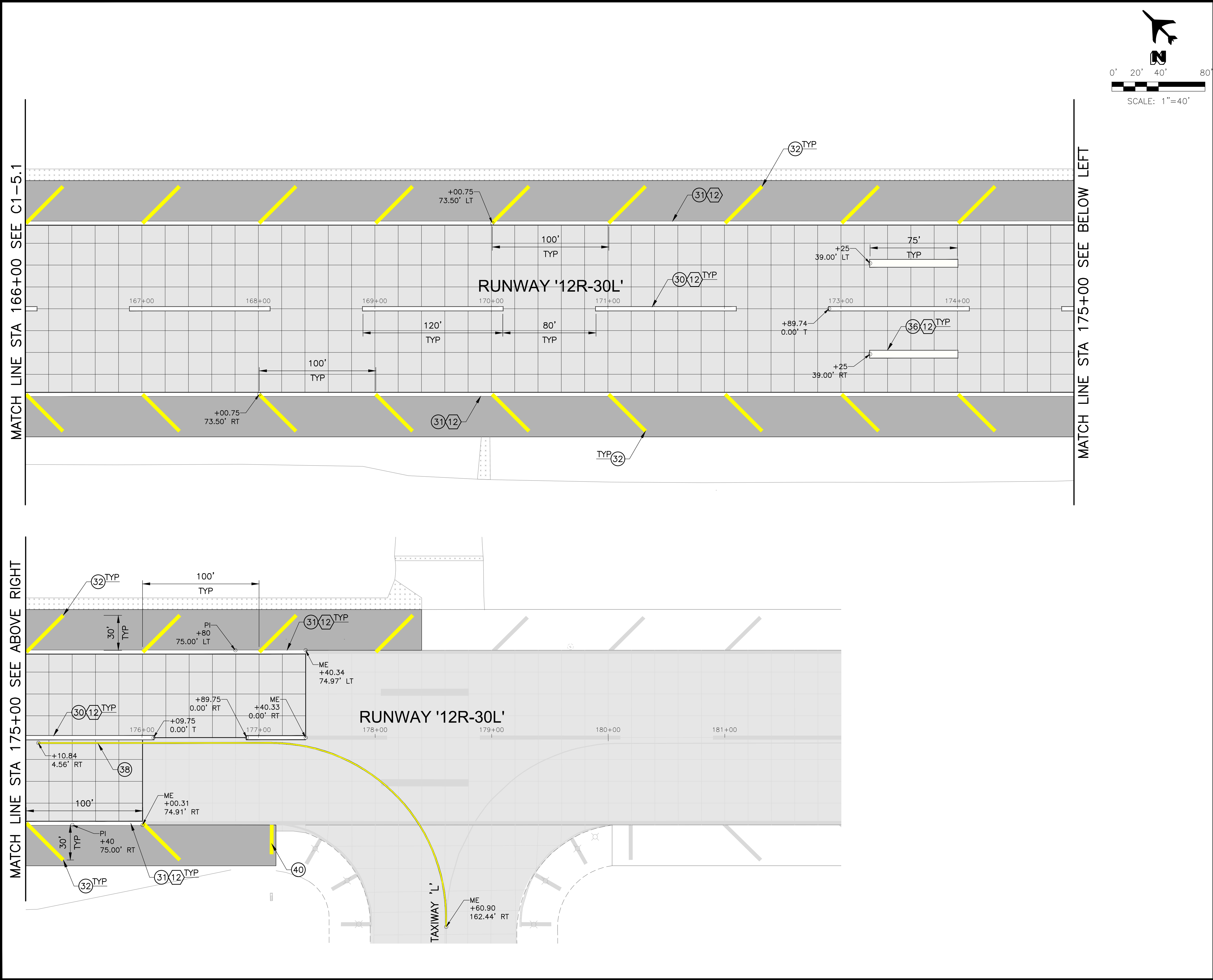
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DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-5-X-MRKG_BB



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT MARKING PLAN
STA 156+00 TO STA 166+00**

FILE:\2020\1020023\2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-C1-5-X-MRKG-BB.dwg DATE:April 26, 2023 TIME:12:07 PM B:\trovis woodman

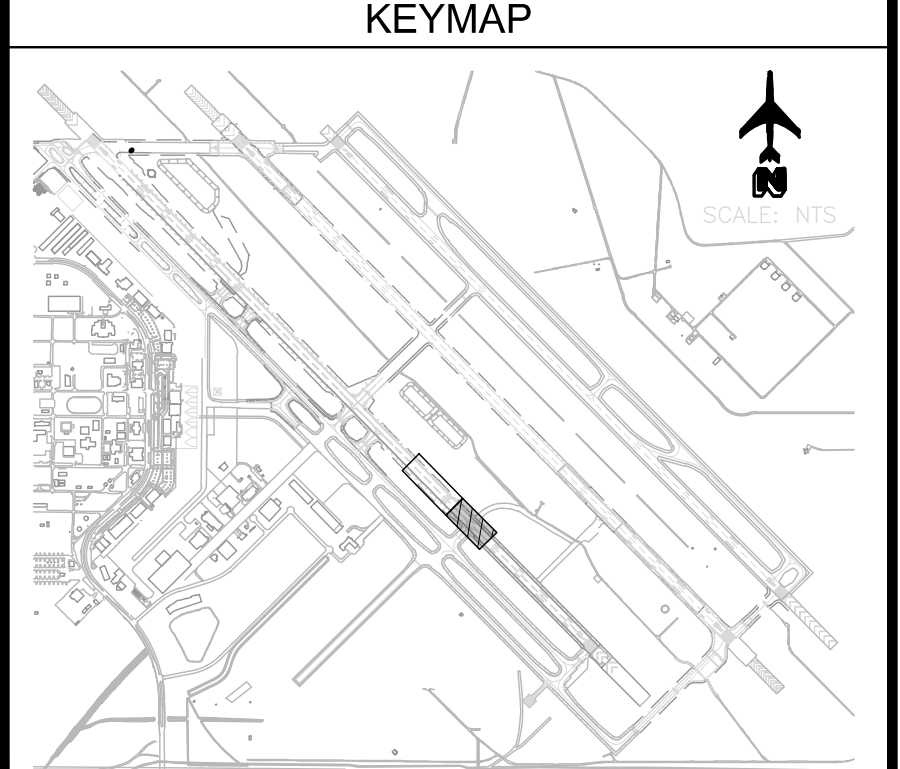


CONSTRUCTION NOTES		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	6 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	2140 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	24 EA
36	RUNWAY TOUCHDOWN ZONE MARKINGS DET 5, SHT C1-5.3	2 EA
38	TAXIWAY CENTERLINE MARKING DET 1, SHT C1-5.4	444 LF
40	TAXIWAY SHOULDER MARKING DET 3, SHT C1-5.4	1 EA

REV	DATE	DESCRIPTION

REFERENCE NOTES	
12	BLACK OUTLINE NOT INCLUDED IN DIMENSION

- PAVEMENT MARKING NOTES**
- ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.
 - ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.
 - ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE WILL BE NO SEPARATE MEASUREMENT FOR BLACK PAINT, (FOR SCH I-III ONLY).



REV	DATE	DESCRIPTION

DIBBLE

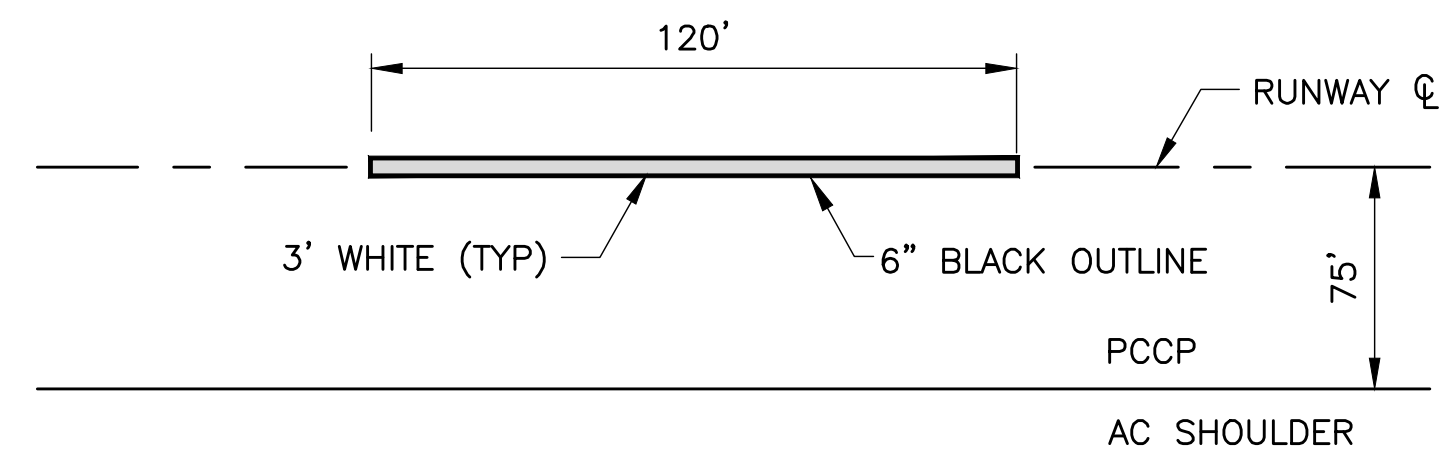
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DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-5-X-MRKG_BB



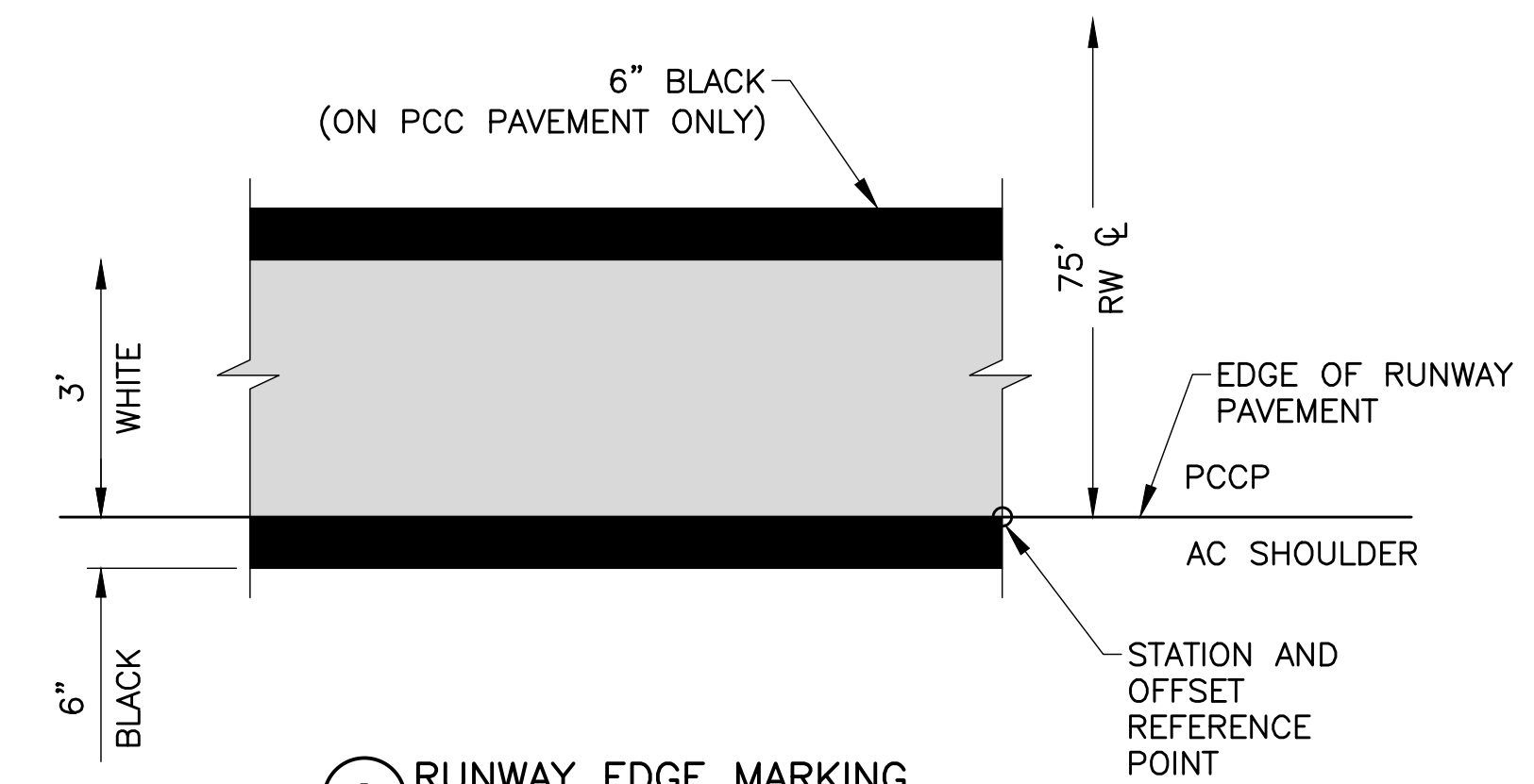
**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT MARKING PLAN
STA 166+00 TO STA 182+00**



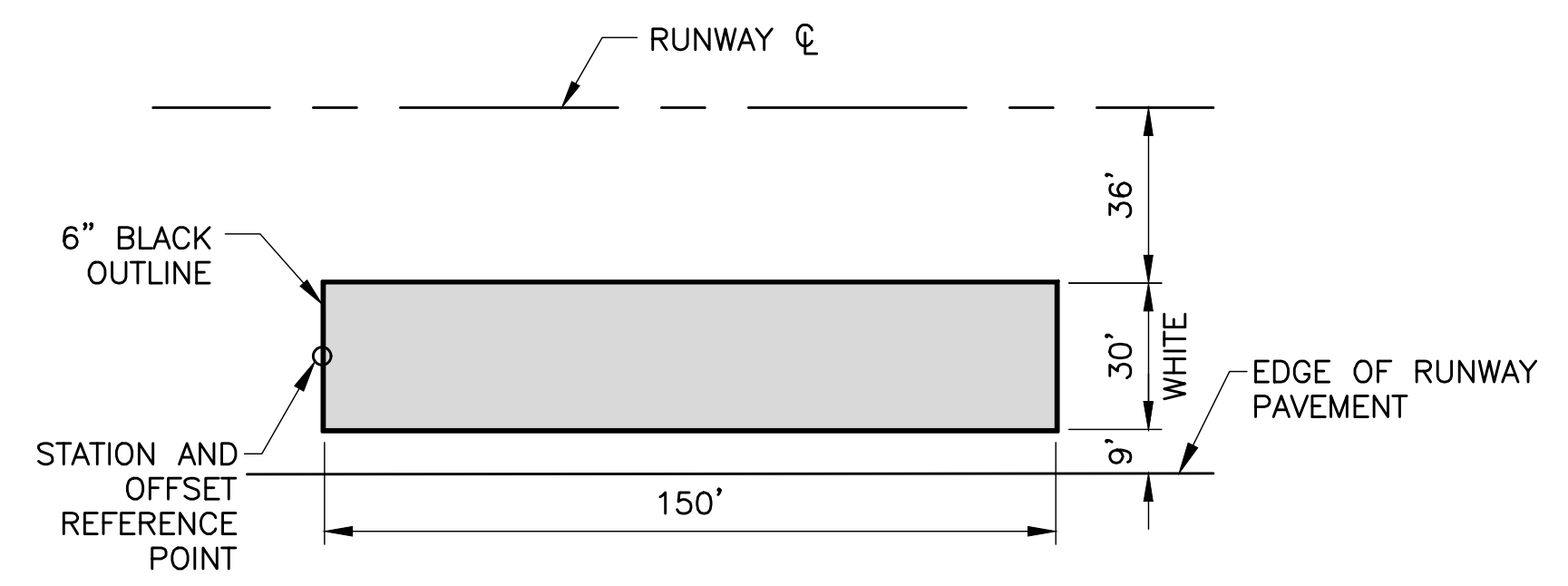
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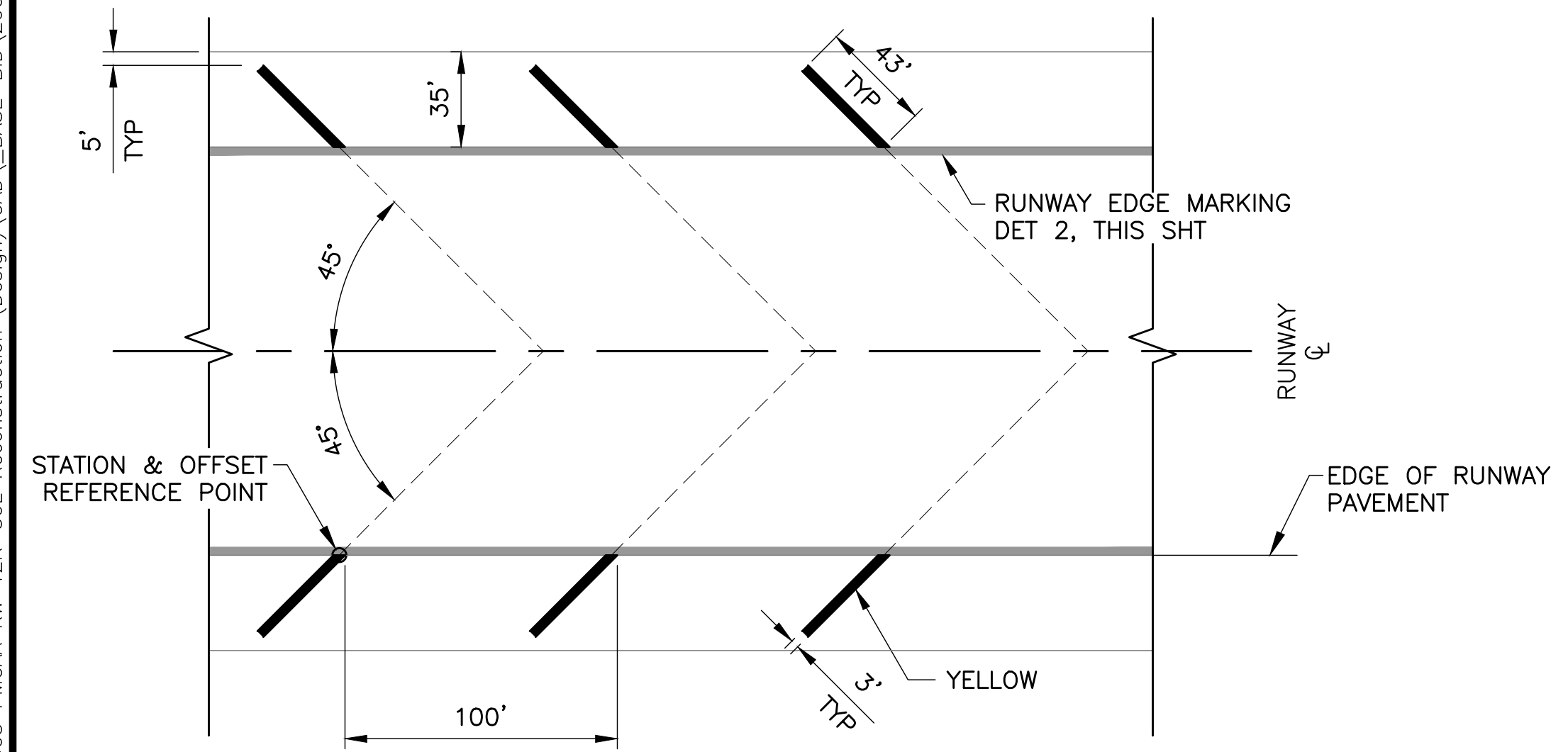
1 RUNWAY CENTERLINE MARKING
NTS



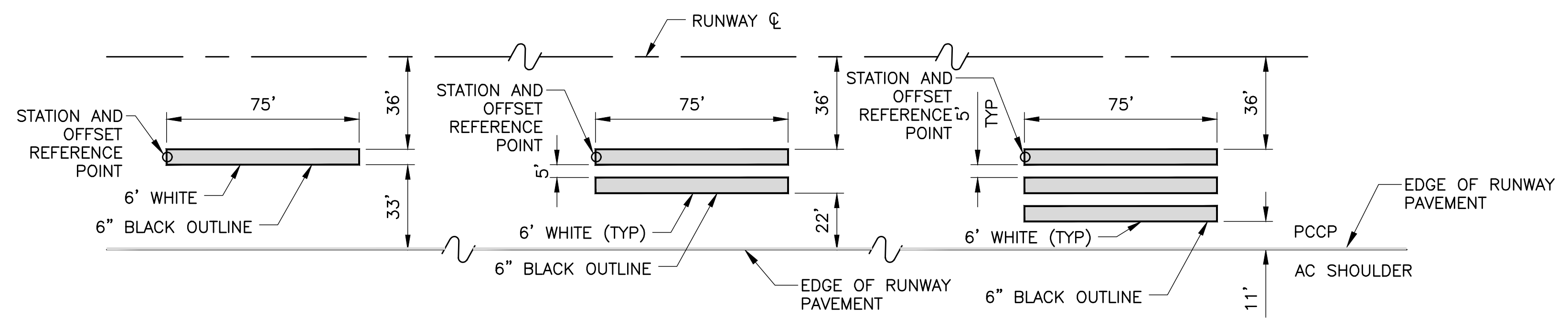
2 RUNWAY EDGE MARKING
NTS



3 RUNWAY AIMING POINT MARKING
NTS



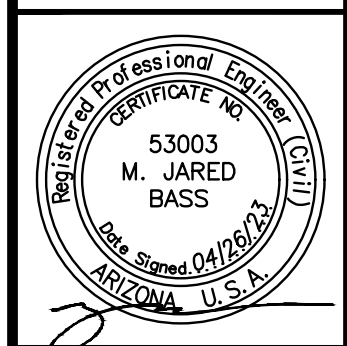
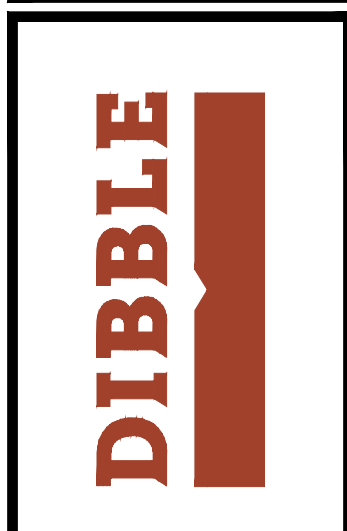
4 RUNWAY SHOULDER MARKING
NTS



5 RUNWAY TOUCHDOWN ZONE MARKING
NTS



REV	DATE	DESCRIPTION



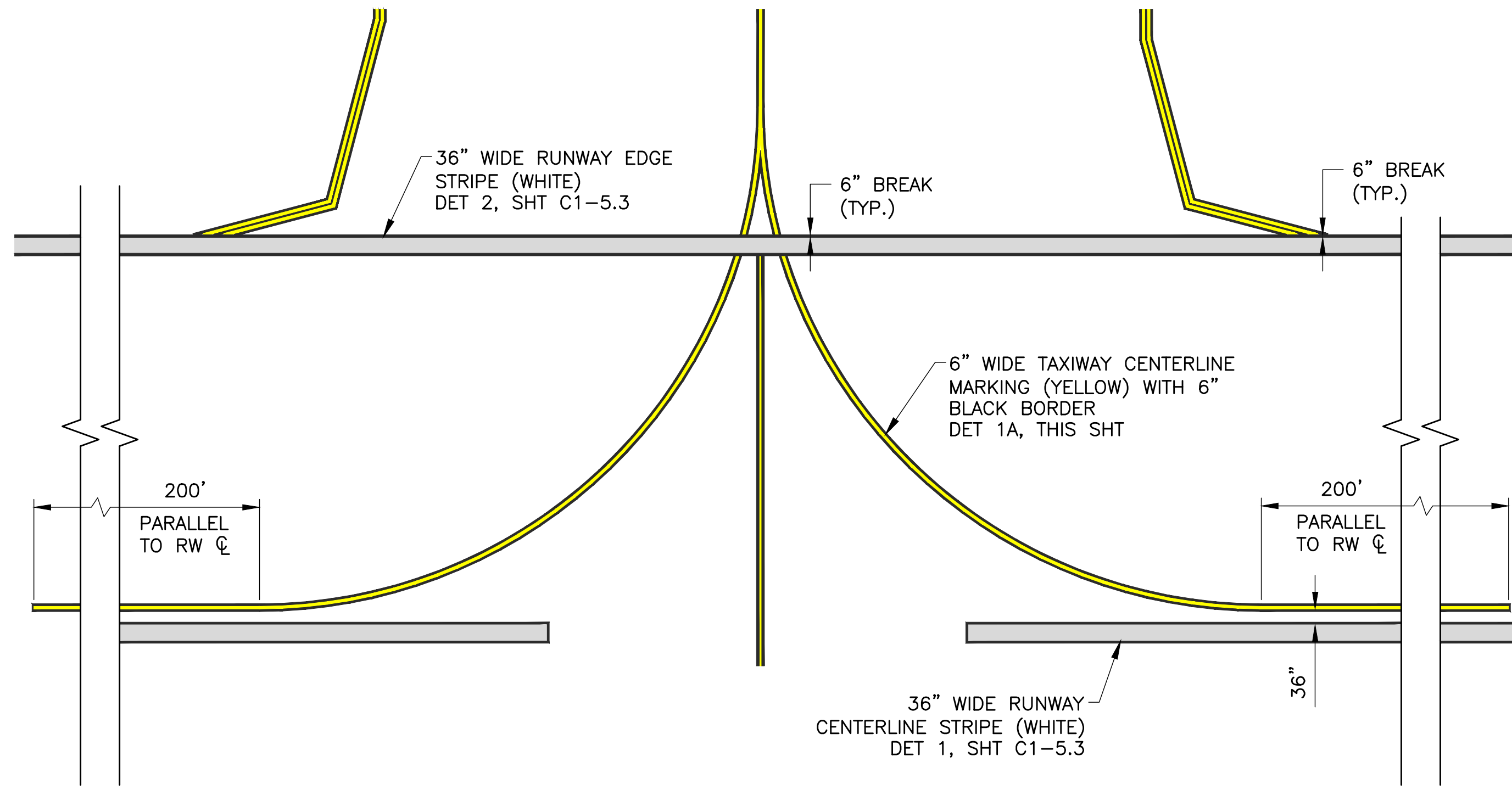
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DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-5_X-MRKG-DET1_BB



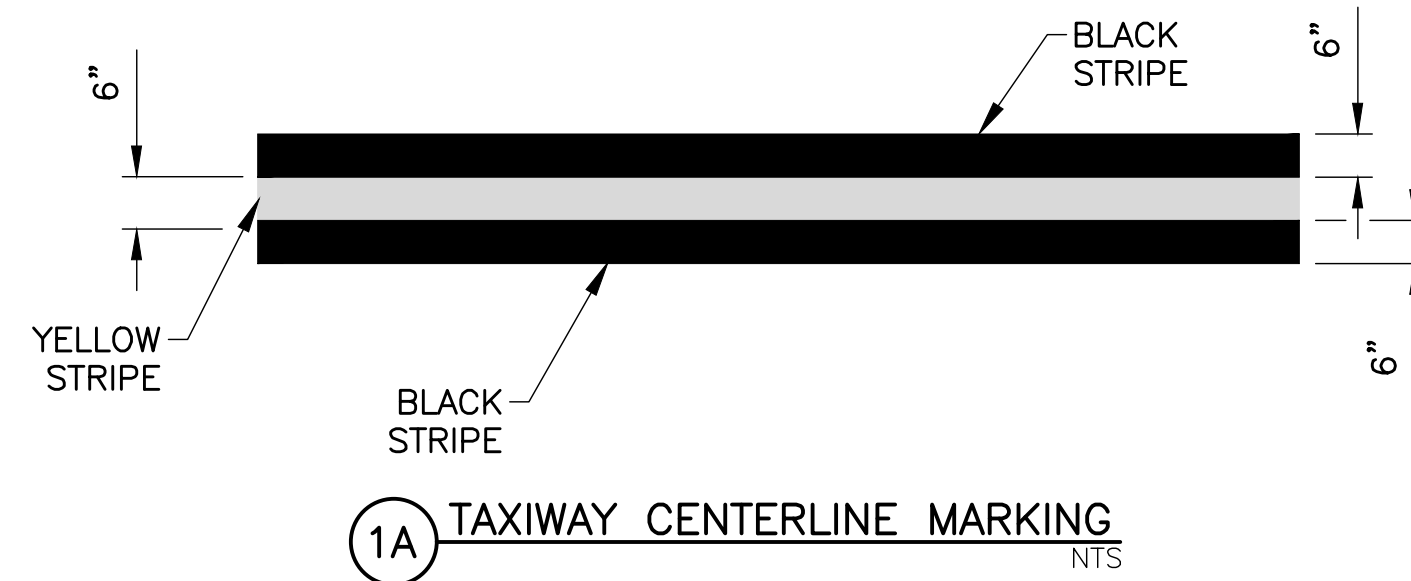
**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT MARKING PLAN
PAVEMENT MARKING DETAILS**

C1-5.3
SHEET NO.
33 OF **211**

FILE: \2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-5-X-MRKG-DET1-BB.dwg DATE: April 26, 2023 TIME: 12:08 PM BY: travis woodman



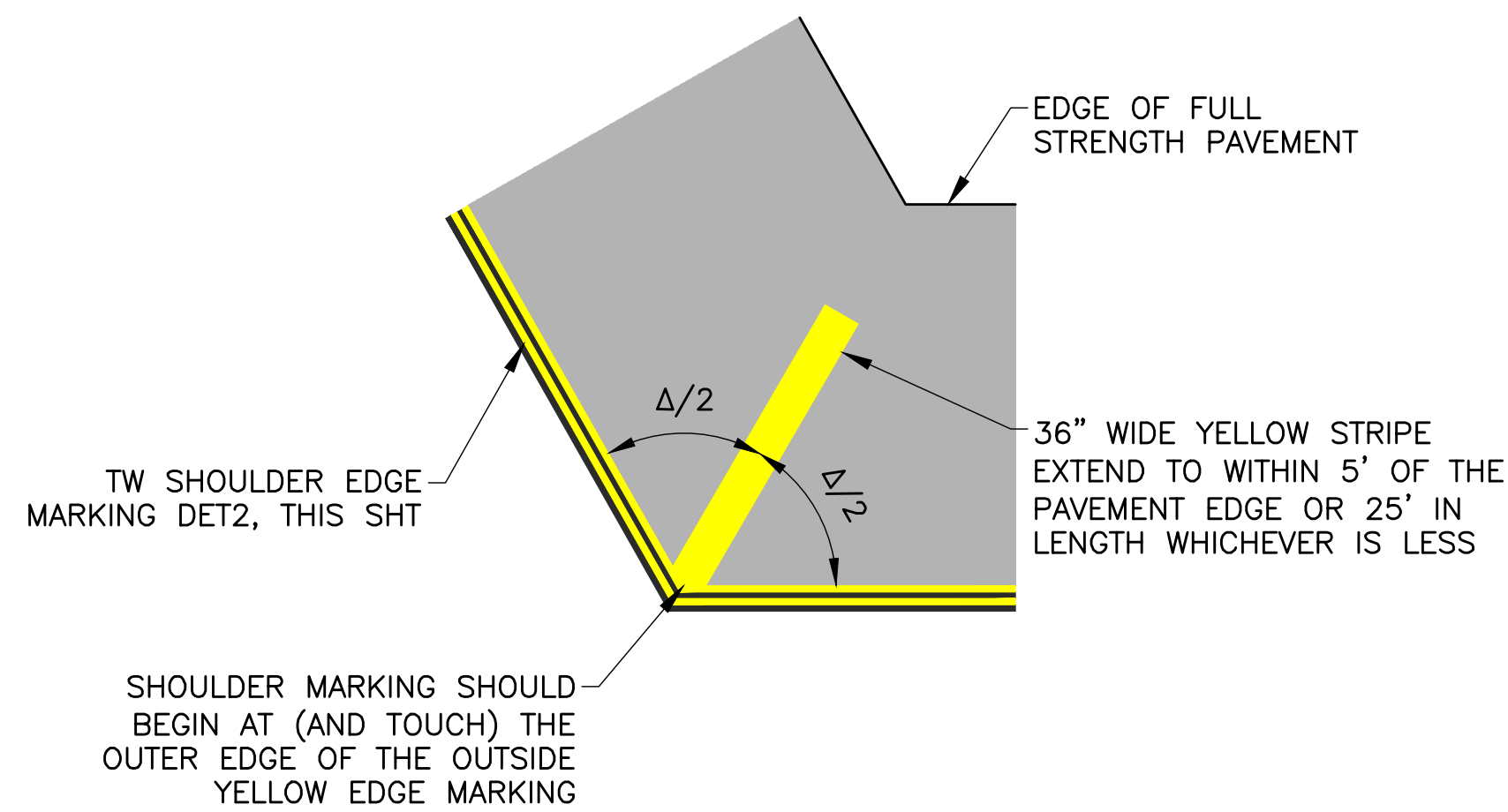
1 TAXIWAY CENTERLINE MARKING
NTS



1A TAXIWAY CENTERLINE MARKING
NTS



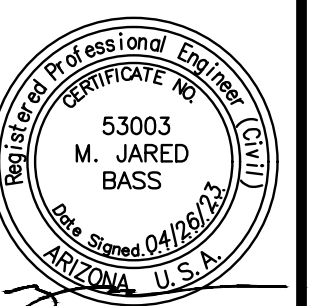
2 TAXIWAY EDGE MARKING
NTS



3 TAXIWAY SHOULDER MARKING
NTS

REV	DATE	DESCRIPTION

DIBBLE



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 20023_2303-C1-5-X-MRKG-DET1-BB



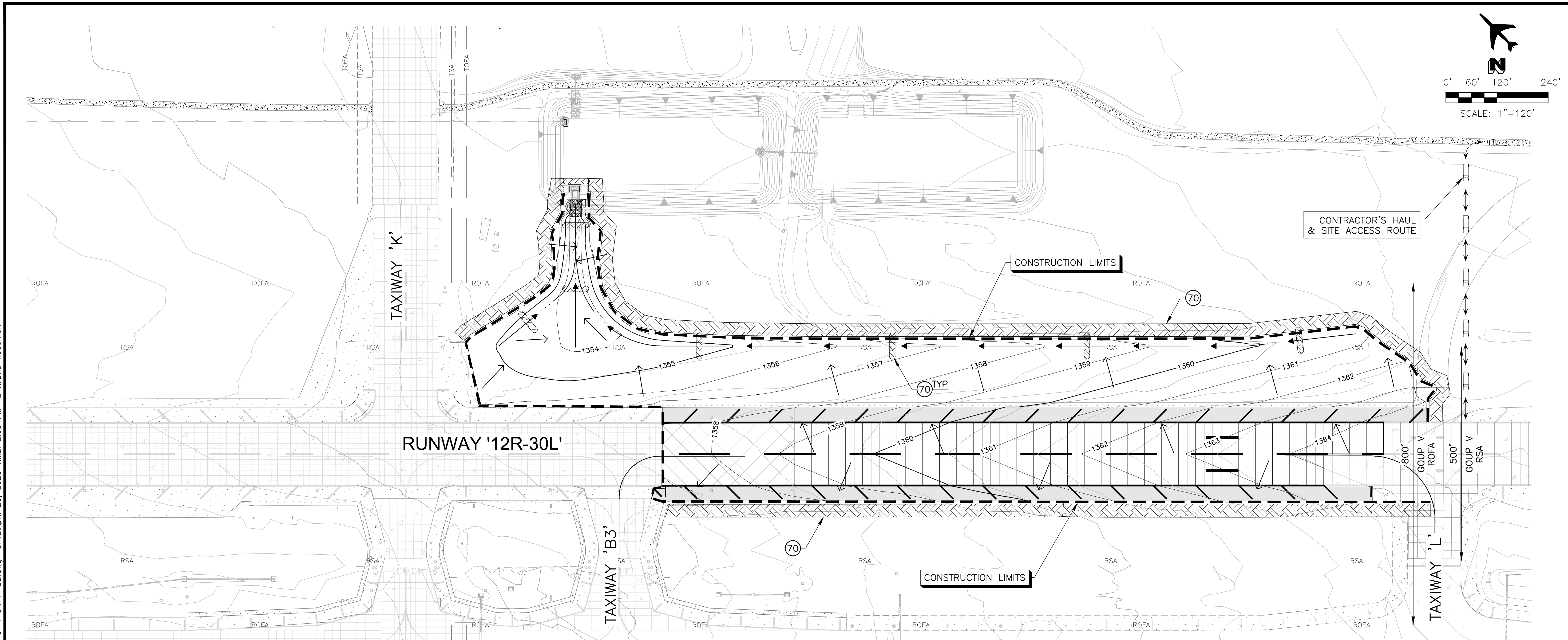
**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) PAVEMENT MARKING PLAN
PAVEMENT MARKING DETAILS**

C1-5.4

SHEET NO.
34 OF 211



FILE: \\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-C1-6_X-SWPP-BB.dwg DATE: April 26, 2023 TIME: 12:08 PM BY: trovis woodman



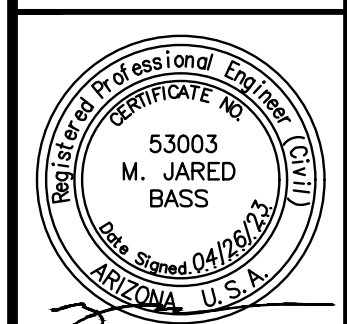
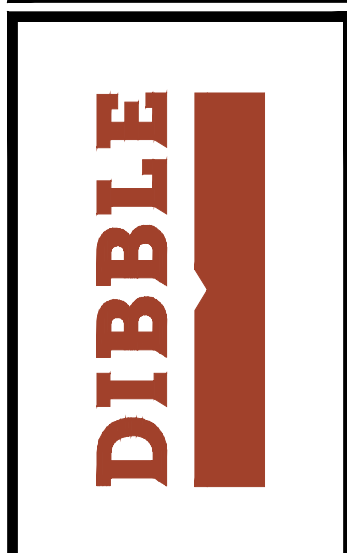
LEGEND	
(70)	FILTER SOCK/WADDLE (BMP-SPC-1) DET 1, SHT C1-6.2
NPI	

LEGEND	
	FILTER SOCK/WADDLE (BMP-SPC-1) DET 1, SHT C1-6.2
	FLOW ARROW
	CONSTRUCTION LIMITS
	CONTRACTOR'S HAUL ROUTE

NOTE:
 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A PROJECT SWPPP PER TECHNICAL SPECIFICATION C-105.
 2. THESE SHEETS ARE FOR REFERENCE ONLY.



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C1-6_X-SWPP_BB



**RUNWAY '12R-30L' RECONSTRUCTION
 BASE BID
 (SCH 1) STORMWATER POLLUTION
 PREVENTION PLAN**

C1-6.1
 SHEET NO.
35 OF 211

EC-7 Dust Control Table

TABLE 5.2
COMMONLY USED DUST SUPPRESSANTS

Types	Functional Mechanism	Advantages	Limitations
Freshwater	Moisture wets particles, thereby increasing their mass and binding them together.	Usually readily available, low material cost, and easy to apply	Frequent light applications may be necessary during hot dry weather and can be labor intensive. Over application may result in loss of traction, erosion, or potholes of road failure.
Calcium Chloride	At a relative humidity greater than approximately 30% (77°F), the salts within the soil will pull moisture from the air above and retain it in the soil.	Reduces evaporation rate of surface moisture, lowers the freezing point of water, which reduces frost heave and freeze-thaw cycles, thereby reducing required road maintenance. Calcium Chloride also increases the compacted density of existing road base material. Effectiveness is retained after reblading.	Effectiveness in arid and semi-arid regions may be limited due to low relative humidity. It is very corrosive to aluminum alloys and slightly corrosive to steel. Solubility of calcium chloride results in leaching during heavy precipitation. Releases heat when mixed with water.
Magnesium Chloride	At a relative humidity greater than approximately 30% (77°F), the salts within the soil will pull moisture from the air above and retain it in the soil.	Reduces evaporation rate of surface moisture, lowers the freezing point of water, which reduces frost heave and freeze-thaw cycles, thereby reducing required road maintenance. Magnesium Chloride increases the compacted density of existing road base material more than Calcium Chloride. Effectiveness is retained after reblading.	Effectiveness in arid and semi-arid regions may be limited due to low relative humidity. It is very corrosive to aluminum alloys and slightly corrosive to steel. Solubility of calcium chloride results in leaching during heavy precipitation.
Lignin Derivatives	Act as adhesives by binding soil particles together and curing.	Greatly increases dry strength of soil, not humidity-dependent, imparts some plasticity to road surfaces, and lowers freezing point of road surface and base. Effectiveness is retained after reblading.	High solubility results in leaching during heavy precipitation. It is corrosive to aluminum alloys due to acidity (CaCO ₃ can neutralize the acidity). Proper aggregate mix is important to performance. Becomes slippery when wet and brittle when dry.
Tree Resin Emulsions (tall oil)	Act as adhesives by binding soil particles together and curing.	Low solubility after curing minimizes leaching and provides degree of surface waterproofing. Imparts some plasticity to road surfaces, has a high bonding strength, and is non-corrosive.	Requires proper weather and time to cure. No residual effectiveness after reblading. Equipment requires prompt cleanup to avoid curing of resin in hoses and pipes.
Synthetic Polymer	Bind soil particles together by forming a polymerizing matrix; a function similar to adhesives.	Applicable to a range of emission sources and function well in sandy soil conditions. Some types allow seeded vegetation to grow through the polymer matrix.	Requires proper weather and time to cure. Water repellent. May be subject to UV (sunlight) degradation. Application equipment requires timely cleaning. There is no residual effectiveness after reblading.
Bitumens, Tars, and Resins	Asphalt and resinous products are adhesive binding soil particles together. Petroleum oil products coat soil particles, increasing their mass and binding them together.	Water insoluble when dry; provide a degree of surface waterproofing. Good residual effectiveness.	Surface crusting fracturing and potholing may develop. Long-term application may cause road to become too hard for reblading. Bitumens won't lower freezing point and petroleum oil products lack adhesive characteristics.
Cementitious Based Binders	High purity gypsum mixes with water and mulch to form a thin cement-like crust on the soil surface.	Flexible, durable, water permeable, and resists soil chemicals. Reduces amount of aggregate required during initial construction and has lower maintenance costs than other dust suppressants.	Cementitious based binders are only effective for dust control in non-traffic areas. Instead, consider mixing cementitious based binders with sub-base soils for greater soil strength.

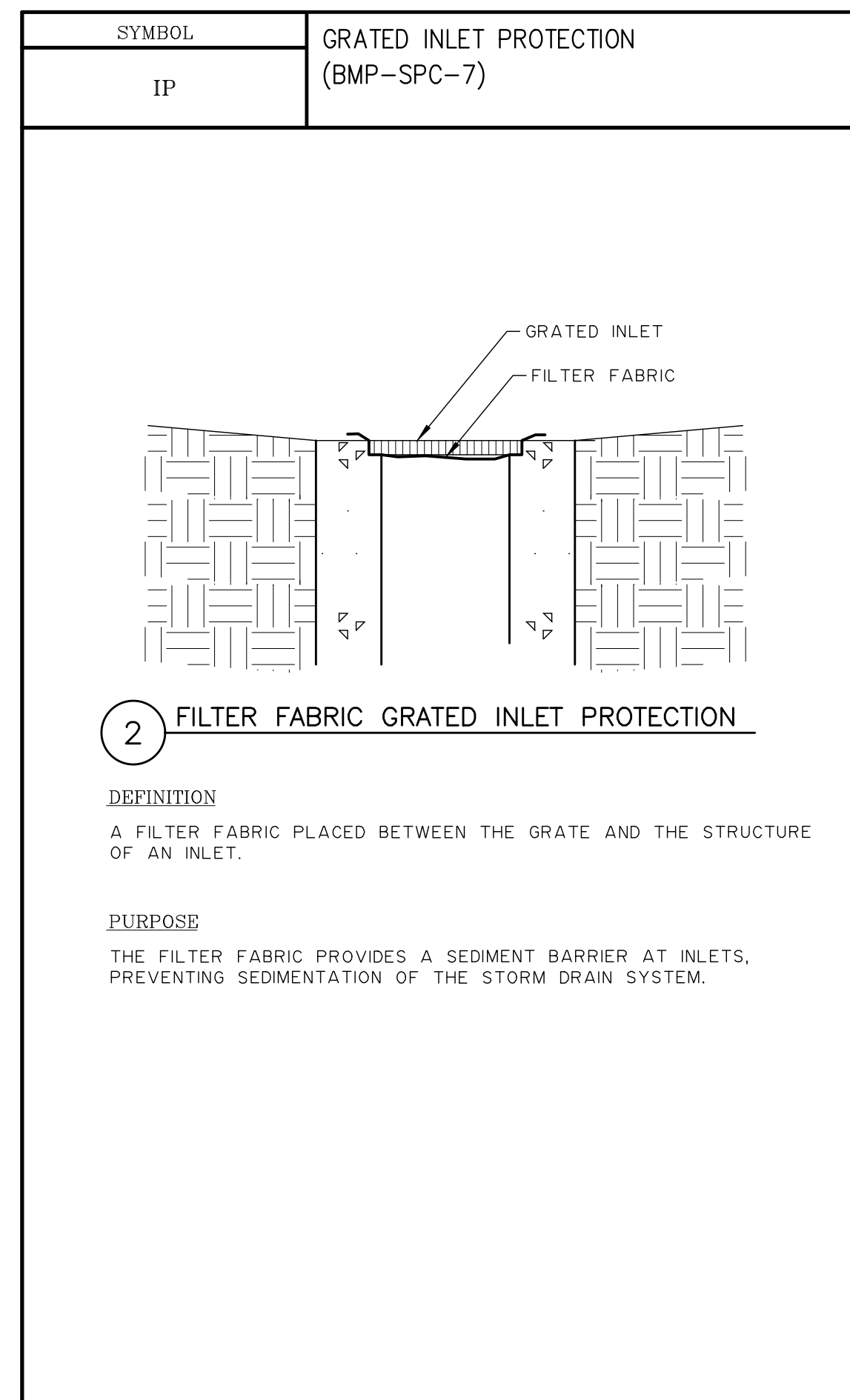
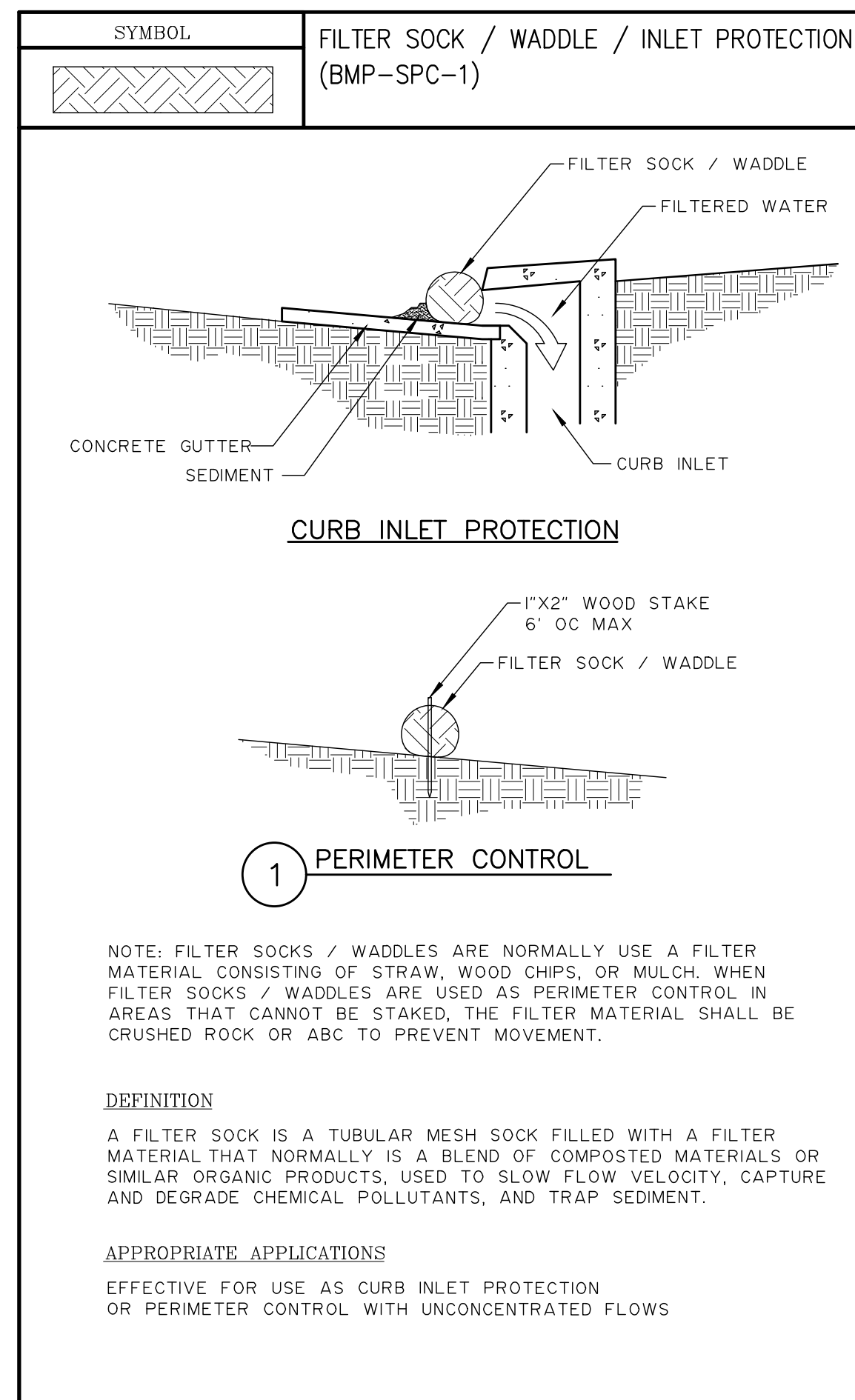
EC-7 Dust Control Table

TABLE 5.2
COMMONLY USED DUST SUPPRESSANTS (CONTINUED)

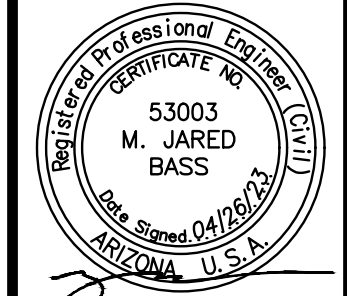
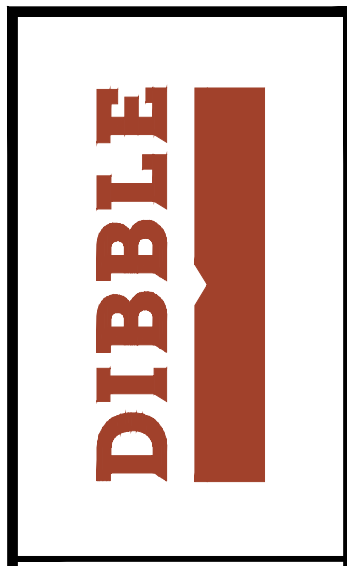
Types	Ideal Soil Characteristics	Relative Cost Comparison (average life expectancy)	Environmental Considerations
Freshwater	None	Low initial cost, high long-term maintenance cost (0 months)	Minimal environmental hazard. If applied excessively, may result in erosion and sediment runoff. Supply may be limited in some areas and, depending on the source, may require a water right permit.
Calcium Chloride	Plasticity index > 8 10-20 percent fines passing the No. 200 sieve (by weight)	Low initial cost, medium long-term maintenance cost (1-6 months)	Repeated applications and long term use may harm adjacent and nearby vegetation (See the manufacturer's product information).
Magnesium Chloride	Plasticity index > 8 10-20 percent fines passing the No. 200 sieve (by weight)	Low initial cost, medium long-term maintenance cost (1-6 months)	Repeated applications and long term use may harm adjacent and nearby vegetation (See the manufacturer's product information).
Lignin Derivatives	Plasticity index > 8 10-20 percent fines passing the No. 200 sieve (by weight)	Medium initial cost, low long-term maintenance cost (3-12 months)	Lignin products have high BOD (biological oxygen demand) in aquatic systems. Spills or runoff into surface or groundwaters may create low dissolved oxygen conditions resulting in fish kills or increases in ground water concentrations of iron, sulfur compounds and other pollutants. (See the product MSDS for specific information).
Tree Resin Emulsions (tall oil)	Plasticity index < 3 10-20 percent fines passing the No. 200 sieve (by weight)	Medium initial cost, low long-term maintenance cost (1-6 months)	(See the manufacturer's product information)
Synthetic Polymer	Plasticity index < 3 5-20 percent fines passing the No. 200 sieve (by weight)	High initial cost, low long-term maintenance cost (1-3 months)	(See the manufacturer's product information)
Bitumens, Tars, and Resins	Plasticity index < 3 < 20 percent fines passing the No. 200 sieve (by weight)	High initial cost, high long-term maintenance cost (1-3 months)	Use of used oils prohibited. Some petroleum based products may contain carcinogenic polycyclic aromatic hydrocarbons (PAHs). (See the manufacturer's product information)
Cementitious Based Binders	Depending on the type of cementitious based binder, will work with both high and low plasticity index soils.	Low initial cost, medium long-term maintenance cost (3-6 months)	None

NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A PROJECT SWPPP PER TECHNICAL SPECIFICATION C-105.
2. THESE SHEETS ARE FOR REFERENCE ONLY.

FILE:\2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023-2303-C1-6-X-SWPP-BB.dwg DATE: April 26, 2023 TIME: 12:08 PM BY: ctrovis woodman



REV	DATE	DESCRIPTION



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MUB/KLS
FILE NAME: 20023-2303-C1-6-X-SWPP-BB

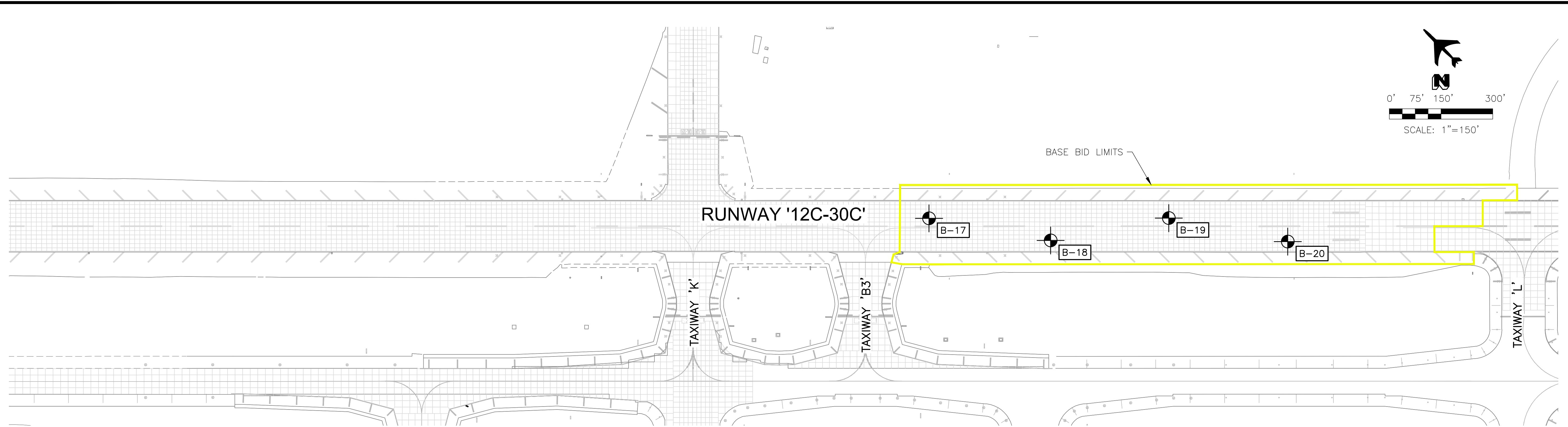


**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH I) STORMWATER POLLUTION
PREVENTION DETAILS**

C1-6.2
SHEET NO.
36 OF **211**



FILE:J:\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\BASE-BID\20023_2303-GT1-1_X-BORE_BB.dwg DATE: April 26, 2023 TIME: 12:09 PM BY: travis woodman



Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sossaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-17

Graphic Log	Location: See Exploration Plan Latitude: 33.3056° Longitude: -111.6587°	Depth (Ft.)	Water Level Observation	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finer
CONCRETE, 8.5" PCC		0.7						
ASPHALT, 2" Asphalt		0.9						
CONCRETE, 6.5" PCC		1.4						
SANDY LEAN CLAY (CL), fine to medium grained, medium plasticity, brown, medium stiff		2-4		2-4	21.1	97		
very stiff		5						
		11-17		11-17	14.0	112		34-16-18
		10-31			12.2	105		
Boring Terminated at 11 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes

Water Level Observations

Drill Rig
772
Hammer Type
Automatic
Driller
Logged by

Advancement Method

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with concrete

Boring Started
08-08-2022
Boring Completed
08-08-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sossaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-18

Graphic Log	Location: See Exploration Plan Latitude: 33.3048° Longitude: -111.6580°	Depth (Ft.)	Water Level Observation	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finer
CONCRETE, 8" PCC		0.7						
ASPHALT, 2" Asphalt		0.8						
CONCRETE, 7.5" PCC		1.5						
SANDY SILTY CLAY (CL-MI), fine to medium grained, low plasticity, light brown, soft		1-2		1-2	24.9	92		
hard		5						
		14-33		14-33	13.4	119		24-17-7
		18-50			12.5	98		63
Boring Terminated at 11 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes

Water Level Observations

Drill Rig
772
Hammer Type
Automatic
Driller
Logged by

Advancement Method

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with concrete

Boring Started
08-08-2022
Boring Completed
08-08-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sossaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-19

Graphic Log	Location: See Exploration Plan Latitude: 33.3043° Longitude: -111.6571°	Depth (Ft.)	Water Level Observation	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finer
CONCRETE, 17" PCC		0.4						
LEAN CLAY (CL), fine grained, medium plasticity, brown, medium stiff		4-4		4-4	13.4	109		
		5						
		4-4		4-4	14.1	111		32-17-15
		10						
		9-8		9-8	14.1	96		
stiff		11.0						
Boring Terminated at 11 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes

Water Level Observations

Drill Rig
772
Hammer Type
Automatic
Driller
Logged by

Advancement Method

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with concrete

Boring Started
08-08-2022
Boring Completed
08-08-2022

Facilities | Environmental | Geotechnical | Materials

GEOTECHNICAL BORINGS NOTE

THIS INFORMATION IS PROVIDED ONLY FOR THE BIDDER'S CONVENIENCE AND IS NOT PART OF THE CONSTRUCTION CONTRACT DOCUMENTS. ALL BIDDERS SHALL BE FULLY RESPONSIBLE TO MAKE THEIR OWN INVESTIGATIONS AND FORM THEIR OWN ESTIMATES OF EXISTING SUBSURFACE CONDITIONS PER THE SPECIAL PROVISIONS.



REV	DATE	DESCRIPTION

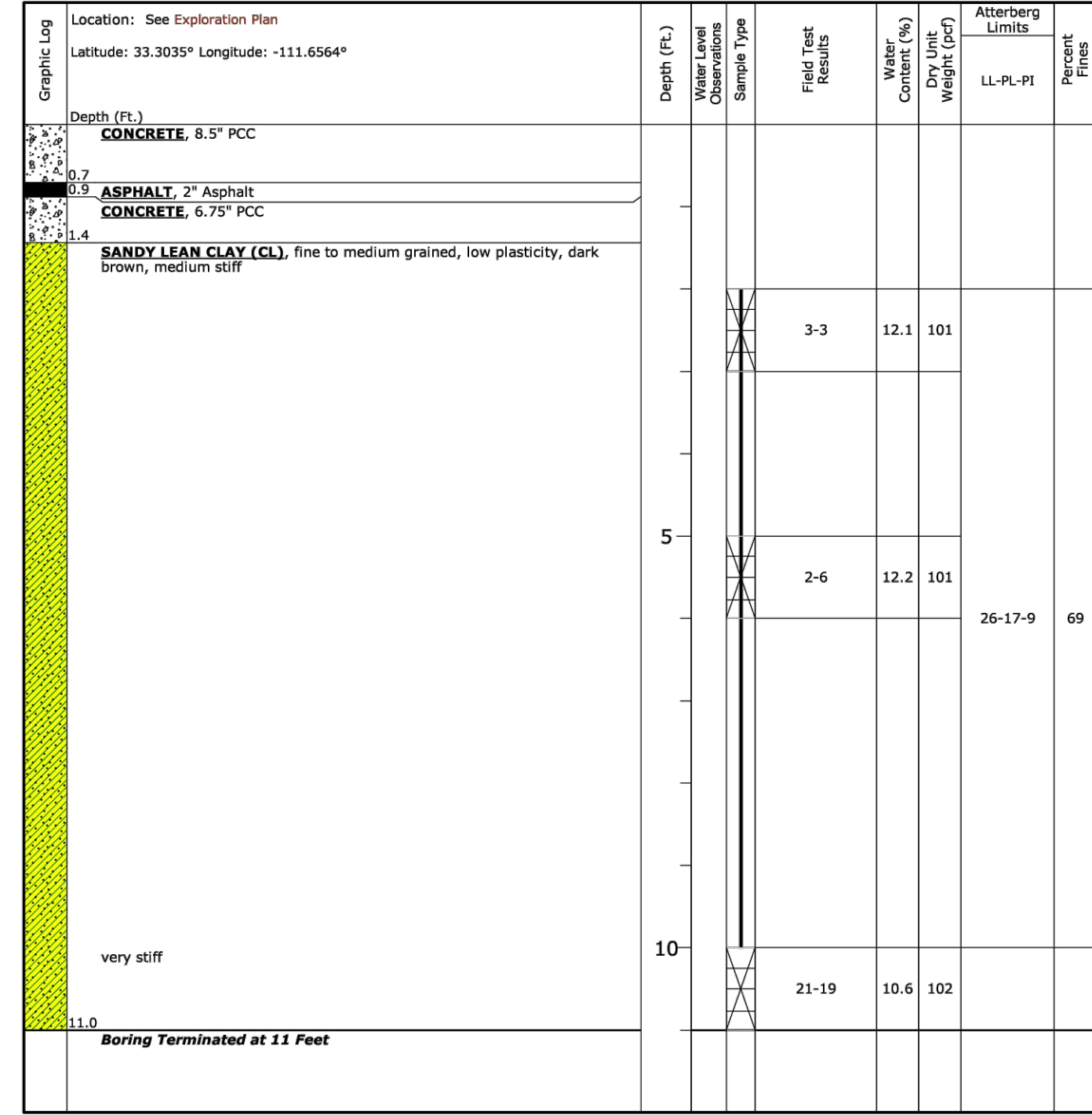


DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 20023_2303-GT1-1_X-BORE_BB



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID
(SCH 1) BORINGS
BORING LOCATION MAP & LOGS**

Boring Log No. B-20

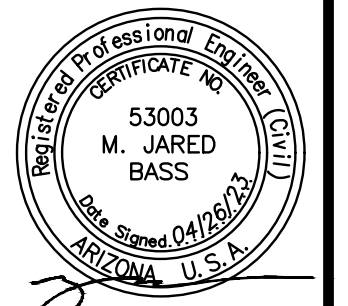


<p>See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations.</p>	<p>Water Level Observations</p>	<p>Drill Rig 772</p> <p>Hammer Type Automatic</p> <p>Driller</p>
<p>Notes</p>	<p>Advancement Method</p>	<p>Logged by</p>
	<p>Abandonment Method Boring backfilled with Auger Cuttings Surface capped with concrete</p>	<p>Boring Started 08-08-2022</p> <p>Boring Completed 08-08-2022</p>

Facilities | Environmental | Geotechnical | Materials

FILE:J:\2020\1020023.2303 PMG3A RW 12R-30L Reconstruction (Design)\CAD\BASE-BID\20023_2303-GT1-1-X-BORE-BB.dwg DATE: April 26, 2023 TIME: 12:09 PM BY: travis woodman

REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-GT1-1_X-BORE-BB



**RUNWAY 12R-30L RECONSTRUCTION
 BASE BID
 (SCH 1) BORINGS
 BORING LOGS**

GT1-1.2
 SHEET NO.
38 OF 211



Call at least two full working days before you begin excavation.
ARIZONA 811
 Arizona One Call, Inc.
 Dial 8-1-1 or 1-800-874-8247 (TDD-8548)
 in Maricopa County (602) 263-1100

FILE:G:\PROJECTS\22000\22026 PMGA Runway_12R-30L_Reconstruction\CAD\CAD_SHEETS\BASEBID\22026 E1.2.dwg DATE:April 18, 2023 TIME:1:45 PM BR:jeff weidman

GENERAL ELECTRICAL REQUIREMENTS

1. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, ORDINANCES, AND REGULATIONS. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED, AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED N.E.C.A. STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION. INSTALL GROUNDING AS REQUIRED BY THE CODE(S) AND FAA ADVISORY CIRCULAR REQUIREMENTS AND DETAILED PER THIS PLAN SET. THE CONTRACTOR SHALL BE OSHA 10 AND NFPA 70E TRAINED.
2. ALL MATERIALS SHALL BE NEW AND MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, U.L. OR OTHER APPLICABLE STANDARDS AND FAA CERTIFIED PER AC150/5345-53. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS, AND BID PRICE. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING AND REVIEWED BY THE ENGINEER BEFORE ORDERING.
3. PROTECT ALL ELECTRICAL MATERIAL AND EQUIPMENT INSTALLED UNDER THIS DIVISION AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE.
4. LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
5. EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL, MINIMUM SIZE 3/4", UNLESS OTHERWISE NOTED ON THE PLANS.
6. ALL SAFETY SWITCHES AND OTHER DISTRIBUTION AND CONTROL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED AND RATED FOR HEAVY DUTY SERVICE.
7. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
8. ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING, BOXES, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING. THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION INSTRUCTIONS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED.
9. CONDUIT/CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION. THE CITY INSPECTOR AND AIRPORT REPRESENTATIVE MUST FIELD REVIEW CONTRACTOR'S PROPOSED CONDUIT ROUTING AND HANDHOLE LOCATIONS PRIOR TO ANY SAW CUTTING OR EXCAVATIONS.
10. IT IS THE OBLIGATION OF THE CONTRACTOR TO ORGANIZE HIS WORK, SO THAT A COMPLETE ELECTRICAL, INSTRUMENTATION, AND CONTROL SYSTEM FOR THE FACILITY WILL BE PROVIDED, AND WILL BE SUPPORTED BY ACCURATE SHOP AND RECORD DRAWINGS, AND O & M MANUALS.
11. CONTRACTOR SHALL COORDINATE WITH AIRPORT FOR LOCK-OUT/TAG-OUT OF ALL ELECTRICAL AIRFIELD CIRCUITS AFFECTED BY CONSTRUCTION. ALL AFFECTED CIRCUITS MUST BE OPERATIONAL PRIOR TO END OF EACH SHIFT.
12. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR CONFINED SPACE PROGRAM IN ACCORDANCE WITH OSHA REGULATION STANDARDS - 29 CFR, PART 1910.146.
13. PRIOR TO PERFORMING UNDERGROUND EXCAVATION, THE CONTRACTOR SHALL NOTIFY PMGAA STAFF AND THE BLUE STAKE CENTER TO OBTAIN FIELD UNDERGROUND UTILITIES LOCATION MARKING. THE CONTRACTOR SHALL UNCOVER, AHEAD OF CONSTRUCTION, ALL LINES BEING TIED INTO AND ALL INTERSECTING ELECTRICAL LINES AND UTILITIES AS SHOWN ON THE PLANS OR MARKED BY BLUE STAKE TO VERIFY THEIR LOCATION AND DEPTH. CONTRACTOR SHALL ASSUME THAT ALL EXISTING DUCTBANKS THAT CROSS EXISTING AIRFIELD PAVEMENTS OR ARE WITHIN RUNWAY OR TAXIWAY SAFETY AREAS ARE ENCASED. UTILITY SERVICES AND ALL EXISTING ELECTRICAL LINES SHALL BE LOCATED AND PROTECTED BY THE CONTRACTOR. COORDINATE WITH ENGINEER AND/OR APPROPRIATE UTILITY COMPANY. ALL PRECAUTIONS SHALL BE USED WHILE WORKING NEAR ALL UTILITIES, TO AVOID INJURY OR DEATH TO PERSONNEL, PROPERTY DAMAGE AND/OR INTERRUPTION OF SERVICE.
14. CONTRACTOR SHALL VACUUM TO REMOVE EXCESS WATER FROM EXISTING HANDHOLES AND BASE CANS PRIOR TO INSTALLATION OF NEW CABLE (NPI).
15. GROUND RODS AND COUNTERPOISE WIRE ARE CONSIDERED INCIDENTAL TO FIXTURE AND CONDUIT INSTALLATION.
16. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK WITH THE CIVIL CONTRACTOR TO REDUCE CONFLICTS THAT WILL AFFECT CONSTRUCTION PHASING AND SCHEDULING.
17. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL HANDHOLE STATIONS AND OFFSETS AND CONFIRM LOCATIONS ARE WITHIN SPECIFICATION TOLERANCES.
18. CONSTRUCTION TRAFFIC SHALL YIELD TO AIRCRAFT TRAFFIC AT ALL TIMES.
19. TRENCHES WITHIN RUNWAY AND TAXIWAY SAFETY AREAS SHALL BE RESTORED TO SAFETY AREA REQUIREMENTS AND READY FOR PMGAA OPERATIONS INSPECTION 15 MINUTES BEFORE RE-OPENED TO TRAFFIC. OPEN TRENCHES ARE NOT PERMITTED IN OPERATIONAL AREAS. TRENCHES SHALL BE BACKFILLED TO GRADE WITH NO LIPS OR DIPS THAT EXCEED 2".
20. CONTRACTOR SHALL MINIMIZE TRACKING OF FOREIGN OBJECT DEBRIS (FOD) ONTO PAVEMENT. ALL MUD AND DEBRIS SHALL BE REMOVED AT CONTRACTOR'S EXPENSE PRIOR TO SHIFT END.

ELECTRICAL DEMOLITION GENERAL NOTES

1. WITHIN AREAS OF DEMOLITION, AND AS OTHERWISE SHOWN, CAREFULLY REMOVE IDENTIFIED LIGHT FIXTURES, BASES, ISOLATION TRANSFORMERS, HANDHOLES AND OTHER INDICATED ITEMS. ALL FIXTURES, SIGNS, CABLES, AND ISOLATION TRANSFORMERS SHALL BE SALVAGED AND TURNED OVER TO PMGAA IN WORKING CONDITION AT LOCATION ON AIRPORT AS DIRECTED BY OWNER.
2. **CABLE REMOVAL**
 - A. **DIRECT BURIAL:** REMOVE FROM WITHIN MANHOLES AND HANDHOLES AND REMOVE IN AREAS WHERE EXCAVATION REQUIRES DISTURBING.
 - B. **IN CONDUIT:** REMOVE COMPLETELY BETWEEN NEAREST BASES, HANDHOLES OR MANHOLES.
3. AT INDICATED DEVICES TO BE REMOVED OR IN DEMOLITION AREAS INDICATED, REMOVE ALL CONDUCTORS BACK TO NEAREST FIXTURE BASE OR HANDHOLE OUTSIDE DEMOLITION AREA.
4. FIXTURES, CABLES, CONDUITS, DUCTS, ETC. WHICH ARE NOT SPECIFICALLY INDICATED TO BE REMOVED (OR WHICH ARE SHOWN TO REMAIN WITHIN AREAS OF GENERAL DEMOLITION) SHALL REMAIN IN-PLACE AND FUNCTIONAL.
5. CONTRACTOR SHALL VERIFY EQUIPMENT AND CABLE DESIGNATIONS AND STATUS PRIOR TO REMOVAL OR DISCONNECTING.
6. DRAWINGS MAY NOT DETAIL ALL EXISTING FACILITIES IN AREAS OF DEMOLITION. CONTRACTOR SHALL REVIEW THE SITE AND RECORD DRAWINGS TO VERIFY THE DEMOLITION EFFORT INVOLVED.
7. CONTRACTOR SHALL BE REQUIRED TO HAVE A PRIVATE "ON-SITE" UTILITY LOCATING COMPANY AND POT HOLE EXISTING UTILITY LINES AS NEEDED.

ELECTRICAL CONSTRUCTION PHASING NOTES

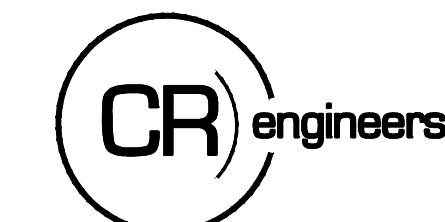
1. CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT MAINTENANCE, AIRPORT OPERATIONS, AND THE PM/CM AS NECESSARY.
2. CONTRACTOR SHALL GIVE 72 HOURS NOTICE PRIOR TO WORKING ON OR AROUND ANY DUCTBANKS, HANDHOLES, ETC.
3. CONTRACTOR SHALL MAINTAIN OR HAVE SUFFICIENT MATERIAL/ EQUIPMENT REQUIRED TO PROVIDE TEMPORARY LIGHTING AND CIRCUIT EXTENSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO CONDUIT, L-824 CABLE & L-823 SPLICE KITS. THESE ITEMS WILL NOT BE AVAILABLE FROM THE PMGAA MAINTENANCE SHOP.
4. THE CONTRACTOR SHALL MAINTAIN QUALIFIED PERSONNEL (PER ITEM L-108) WITH THE APPROPRIATE EQUIPMENT, FOR THE INSTALLATION AND SPLICING OF AIRFIELD LIGHTING. SUCH PERSONNEL SHALL BE CAPABLE OF 60 MINUTE RESPONSE TIME IF THEY ARE NOT ALREADY PRESENT ON THE AIRFIELD. THE CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER OF THE L-823 SPLICE KITS.
5. TURN OFF AND COVER EXISTING SIGNAGE THAT MAY POTENTIALLY MISDIRECT AIRCRAFT MOVEMENT INTO CLOSED AREAS BARRICADED FOR CONSTRUCTION. SIGNAGE REQUIRING PARTIAL COVERAGE WITH TAXIWAY LOCATION PANELS REMAINING VISIBLE SHALL REMAIN ON WITH ONLY DIRECTIONAL PORTIONS COVERED WITH SECTIONS OF DARK COLORED TARP OR DOUBLE-LAYERED BURLAP THAT DOES NOT PERMIT VISIBILITY OF COVERED PORTION OF ARRAY DAY OR NIGHT. COVERS SHALL BE SECURELY HELD IN PLACE BY RATCHETING LASHING STRAPS, NO TAPE OR ADHESIVES WILL BE PERMITTED.
6. COVER EXISTING ELEVATED EDGE LIGHT FIXTURES IN CLOSED AREA BARRICADED FOR CONSTRUCTION WITH 4" PVC PIPE. COVER SHALL EXTEND 2" MIN. ABOVE TOP OF FIXTURE.
7. PROVIDE ANY TEMPORARY AIRFIELD CIRCUIT JUMPERS REQUIRED TO MAINTAIN OPERATION OF ALL CIRCUITS AFFECTED BY CONSTRUCTION PRIOR TO START OF DEMOLITION. TEMPORARY CIRCUIT JUMPERS SHALL BE SLEEVED IN 2" PVC CONDUIT, SANDBAGGED OR SECURED TO LOW-LEVEL BARRICADES. TEMPORARY CIRCUIT JUMPERS MAY BE ROUTED THROUGH NEW TAXIWAY CROSSINGS OR EXISTING SPARE CONDUITS AS REQUIRED AND SHALL BE COMPLETELY REMOVED WHEN NO LONGER REQUIRED FOR OPERATION. TEMPORARY JUMPER PLACEMENT SHALL NOT AFFECT AIRCRAFT MOVEMENT OR AIRPORT OPERATIONS.
8. UNCOVER SIGNS AND EDGE LIGHT FIXTURES, REMOVE TEMPORARY JUMPERS, AND VERIFY OPERATION AT THE END OF EACH PHASE AS APPLICABLE.

AIRFIELD LIGHT LOCKOUT/TAGOUT POLICY

THE PURPOSE OF THIS POLICY IS TO STANDARDIZE THE LOCKOUT/TAGOUT PROCEDURES BETWEEN ELECTRICAL CONTRACTORS, PMGAA ELECTRICIANS, OPERATIONS AND AIR TRAFFIC CONTROL TOWER (ATCT).

1. PMGAA ELECTRICIANS RESPONDING TO A LOCK-OUT/TAG-OUT REQUEST WILL COORDINATE WITH THE CONTRACTOR.
2. THE PMGAA ELECTRICIANS WILL ASSIST WITH CONTRACTOR TO TURN OFF THE CLOSED RUNWAYS/TAXIWAYS.
3. THE CONTRACTOR WILL SUPPLY AN APPROVED BREAKER-LOCKING DEVICE AND LOCK, THEN LOCK OFF THE INDIVIDUAL BREAKERS FOR THE CIRCUITS TO BE LOCKED OUT. THESE ITEMS WILL REMAIN IN THE VAULTS IN A LOCK BOX PROVIDED BY PMGAA ELECTRICAL SECTION.
4. THE S-1 CUTOUTS WILL BE PULLED, LOCKED AND PLACED ON THE CORRESPONDING REGULATOR BY THE ELECTRICAL CONTRACTOR.
5. THE ELECTRICAL CONTRACTOR MUST FILL OUT LOCK-OUT FORMS BEFORE LEAVING THE VAULT.
6. UPON COMPLETION OF THE LOCKOUT, THE CONTRACTOR WILL REMOVE ALL LOCKS AND INSTALL THE S-1 CUTOUTS. ALL CIRCUITS MUST BE VERIFIED OPERATIONAL IN THE MANUAL MODE ON THE REGULATOR. OPERATIONS WILL PERFORM A COMPLETE CHECK OF THE LIGHTS IN THE FIELD, TO VERIFY ACTUAL OPERATION.
7. WHEN TESTING HAS BEEN COMPLETED, PMGAA ELECTRICIANS WILL NOTIFY OPERATIONS WHEN LOCK-IN IS COMPLETE AND REGULATORS ARE IN REMOTE CONTROL; OPERATIONS WILL NOTIFY THE ATCT THAT THEY HAVE CONTROL OF THE AIRFIELD LIGHTING.
8. COMPLETE LOCK-OUT/LOCK-IN FORMS.

THIS PROCEDURAL CHECKLIST MUST BE FOLLOWED TO THE LETTER



**RUNWAY '12R-30L' RECONSTRUCTION
BASE BID**

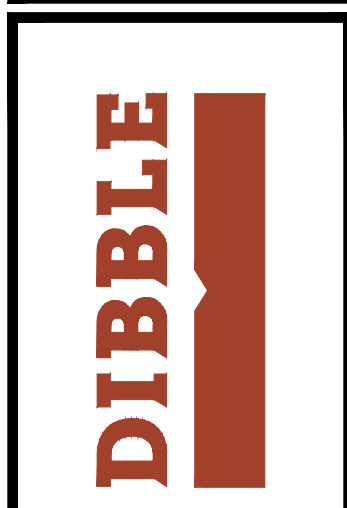
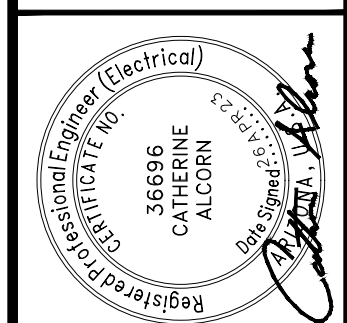
(SCH I) ELECTRICAL NOTES

E1-1.2

SHEET NO.

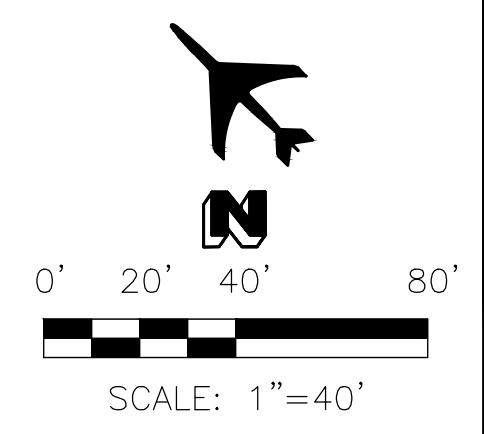
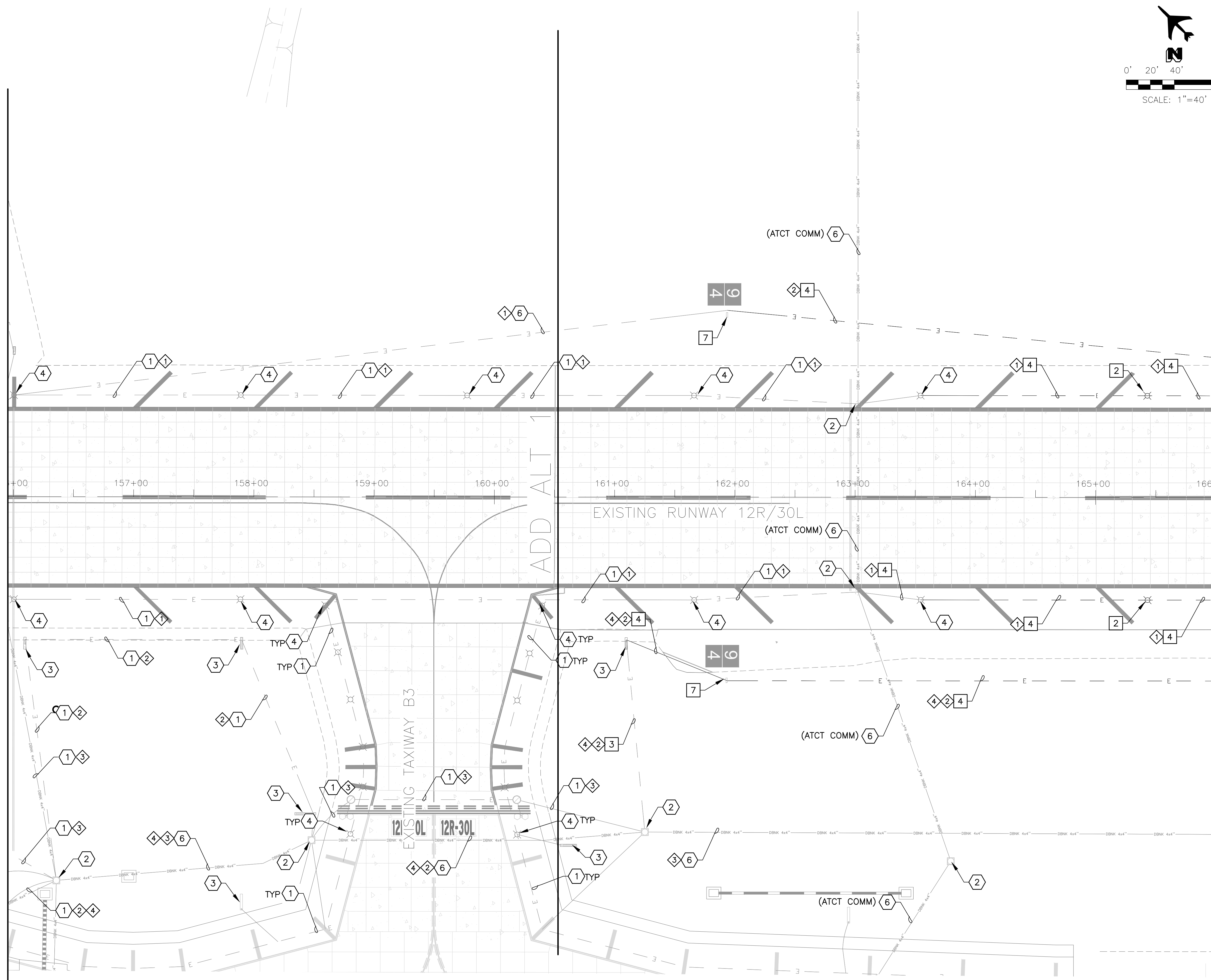
40 OF 211

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



REV	DATE	DESCRIPTION

FILE:G:\PROJECTS\22000\22026 PMCA Runway_12R-30L_Reconstruction\CAD\CAD SHEETS\BASEBID\22026 E1-2.1-E1-2.7 DEMOLITION_BB.dwg DATE:April 18, 2023 TIME:1:54 PM BY:jeff weidman



MATCH LINE STA 166+00 - SEE SHEET E1-2.2

- REMOVAL NOTE
- 2 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN. 2 EA
 - 3 REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN. 160 LF
 - 4 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTORS. 1300 LF
 - 7 REMOVE AND SALVAGE EXISTING AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, REMOVE CONCRETE BASE CAN. 2 EA

- REFERENCE NOTE
- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
 - 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
 - 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
 - 4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
 - 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

- CIRCUIT IDENTIFICATION
- 1 R1 (RW EDGE LIGHTS)
 - 2 R1S (RW SIGNS)
 - 3 RGL (RUNWAY GUARD LIGHTS)
 - 4 PPN (RW 12R PAPI NORTH)

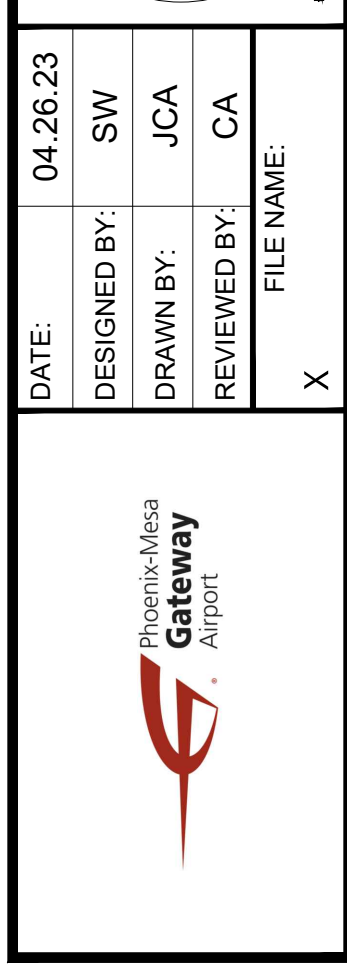
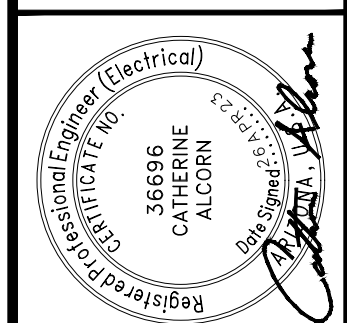
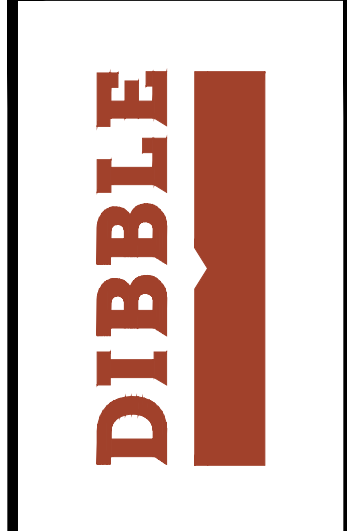
DATE:	04.26.23	DESIGNED BY:	SW	JCA	CA	FILE NAME:	X
DRAWN BY:	JCA	REVIEWED BY:	CA				



Call at least two full working days before you begin construction

800-811-8111 or 1-800-874-8287 (TDD) 928-933-8111
In Maricopa County (928) 955-1100

REV	DATE	DESCRIPTION

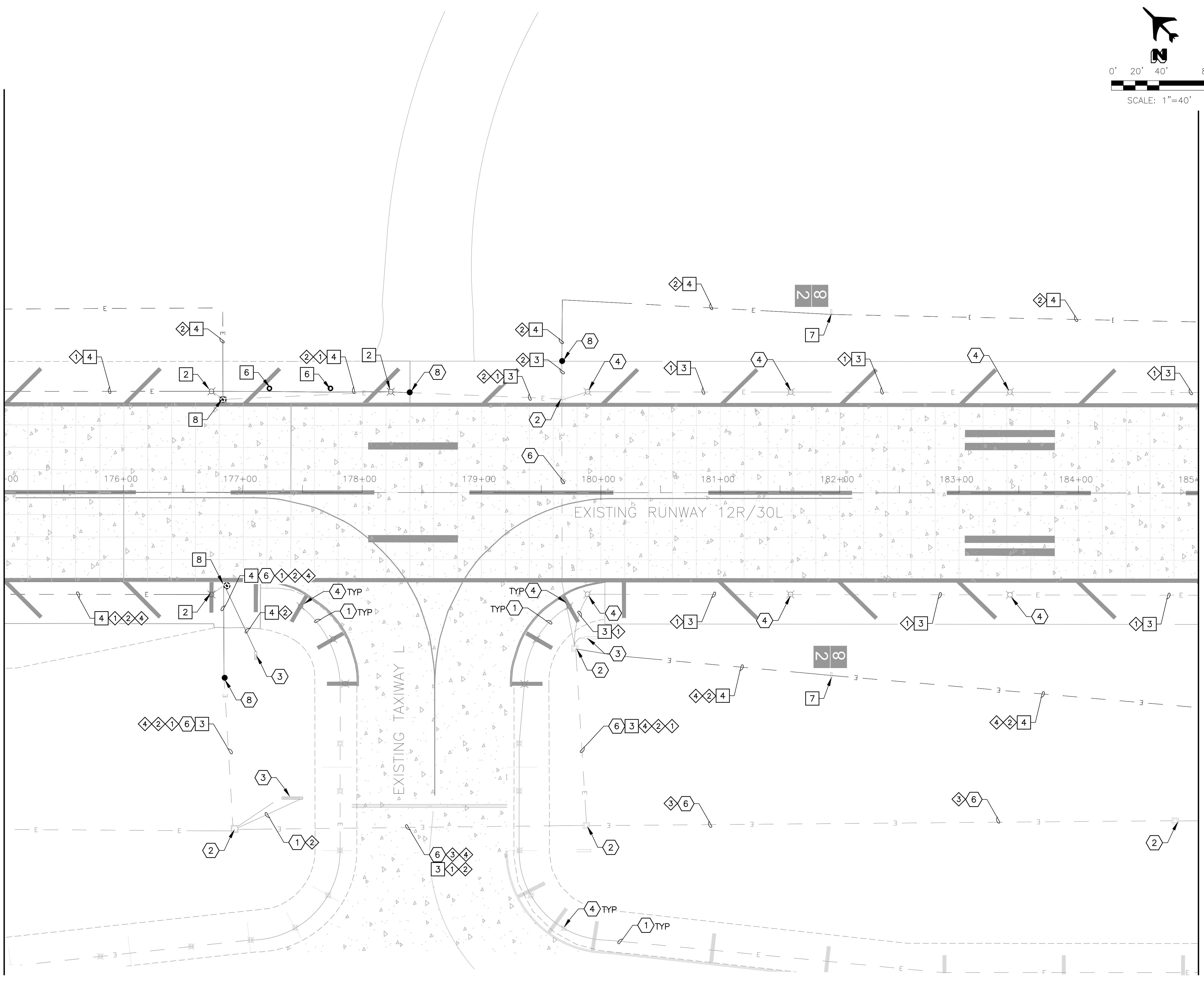


**RUNWAY '12R-30L' RECONSTRUCTION
BASEBID**

(SCH I) AIRFIELD ELECTRICAL DEMOLITION

FILE:Q:\PROJECTS\220000\220026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-2.1-E1-2.7 DEMOLITION_BB.dwg DATE:April 18, 2023 TIME:1:56 PM BY:jeff weidman

MATCH LINE STA 175+00 - SEE SHEET E1-2.2



MATCH LINE STA 185+00 - SEE SHEET E1-2.4

REMOVAL NOTE	DESCRIPTION	DATE	REV
2	REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN		
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN.		
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTORS.		
6	REMOVE EXISTING JUNCTION CAN/LIGHT BASE.		
7	REMOVE AND SALVAGE EXISTING AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, REMOVE CONCRETE BASE CAN.		
8	EXCAVATE AND REMOVE EXISTING 4'X4'X5' CONCRETE HAND HOLE.		

REFERENCE NOTE	DESCRIPTION
1	EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
3	EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
4	EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.

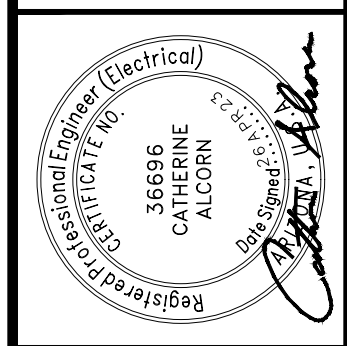
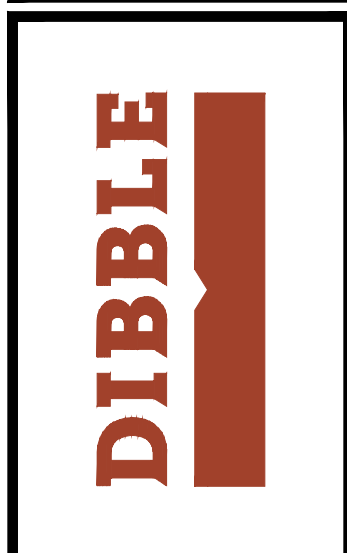
CIRCUIT IDENTIFICATION	DESCRIPTION
◇ R1	(RW EDGE LIGHTS)
◇ R1S	(RW SIGNS)
◇ RGL	(RUNWAY GUARD LIGHTS)
◇ PPN	(RW 12R PAPI NORTH)



CR engineers

Call at least two full working days before you begin excavation:
ARIZONA 811
 (800) 485-8111
 In Maricopa County (602) 253-1100

DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

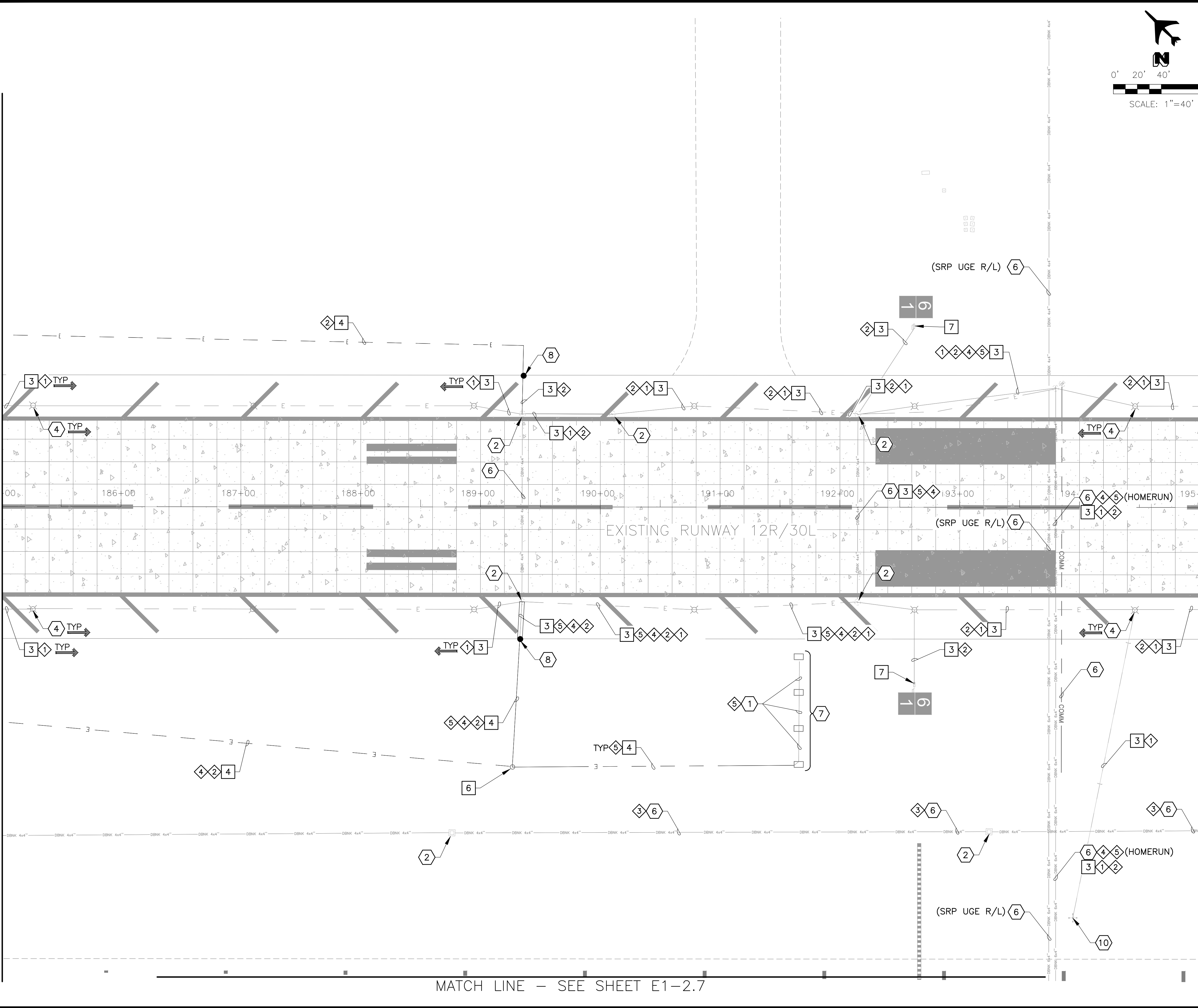


RUNWAY '12R-30L' RECONSTRUCTION BASEBID

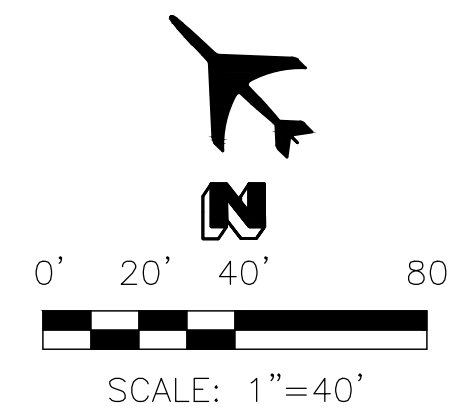
(SCH I) AIRFIELD ELECTRICAL DEMOLITION

FILE:G:\PROJECTS\220000\22026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-2.1-E1-2.7 DEMOLITION_BB.dwg DATE: April 26, 2023 TIME: 1:07 PM BY: julio.amorino

MATCH LINE STA 185+00 - SEE SHEET E1-2.3



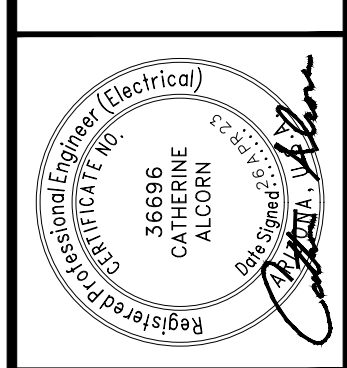
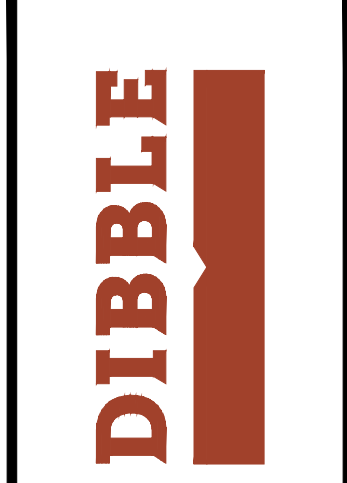
MATCH LINE - SEE SHEET E1-2.7



MATCH LINE STA 195+00 - SEE SHEET E1-2.5

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3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN. 3600 LF
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTORS. 1000 LF
6	REMOVE EXISTING JUNCTION CAN/LIGHT BASE. 1 EA
7	REMOVE AND SALVAGE EXISTING AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, REMOVE CONCRETE BASE CAN. 2 EACH
<input type="checkbox"/> REFERENCE NOTE <input type="checkbox"/>	
1	EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
3	EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
4	EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
<input type="checkbox"/> CIRCUIT IDENTIFICATION <input type="checkbox"/>	
◇ R1	(RW EDGE LIGHTS)
◇ R1S	(RW SIGNS)
◇ RGL	(RUNWAY GUARD LIGHTS)
◇ PPN	(RW 12R PAPI NORTH)
◇ PPS	(RW 30L PAPI SOUTH)
<p>KEYMAP</p>	
<p>Call at least two full working days before you begin excavation ARIZONA 811 <small>Arizona's 811</small> Dial 8-1-1 or 1-800-874-8111 (TDD-8348) in Maricopa County (602) 963-1100</p>	

REV	DATE	DESCRIPTION



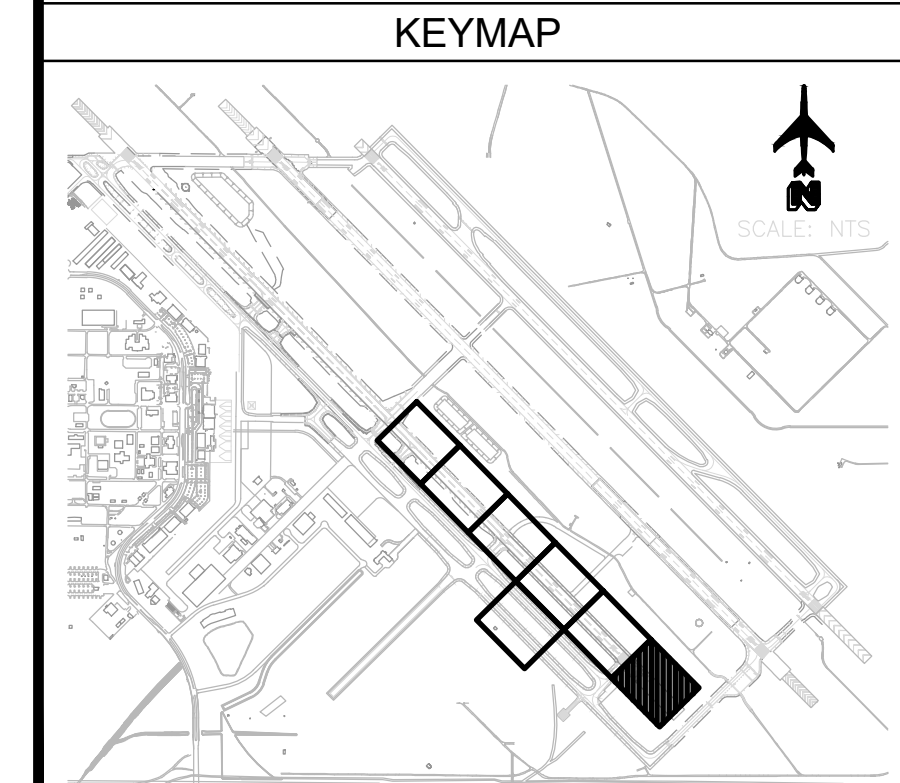
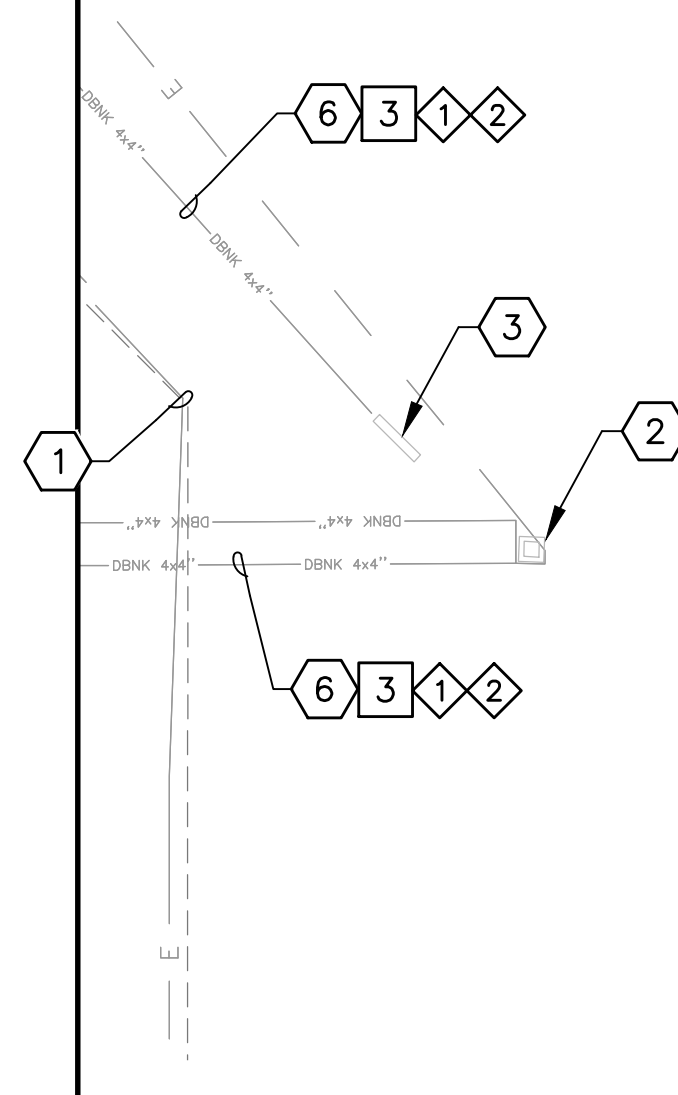
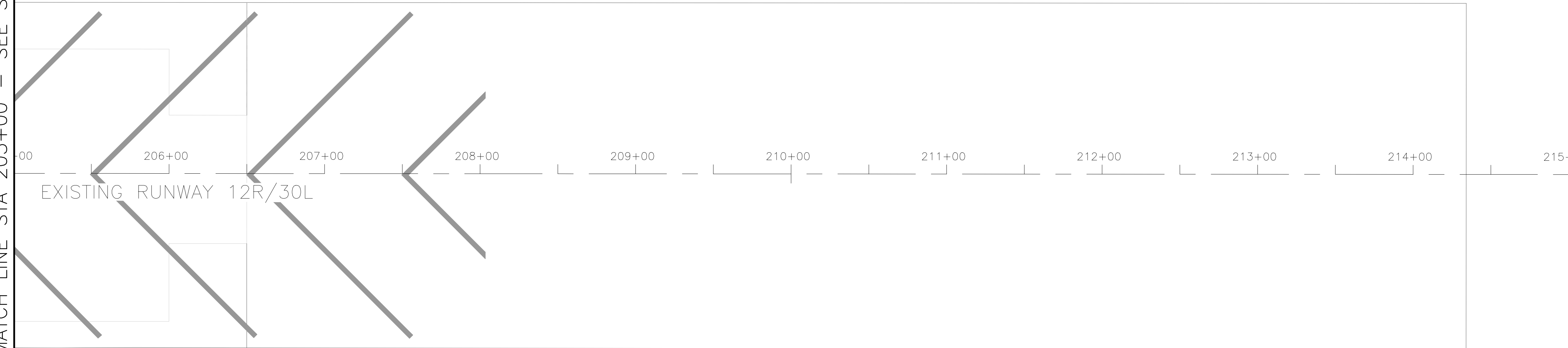
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID
(SCH I) AIRFIELD ELECTRICAL DEMOLITION

FILE Q:\PROJECTS\220000\220026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\BASEBID\22026 E1-2.1-E1-2.7 DEMOLITION_BB.dwg DATE: April 18, 2023 TIME: 2:04 PM BY: jeff weidman

MATCH LINE STA 205+00 - SEE SHEET E1-2.5

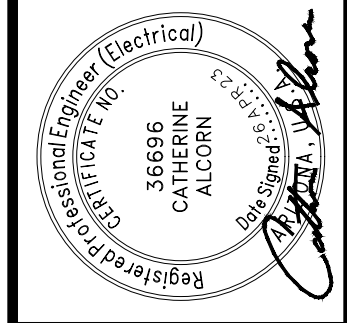
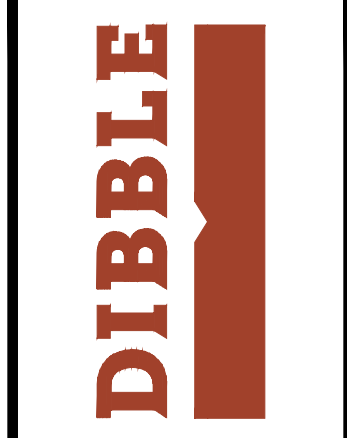


REV	DATE	DESCRIPTION

- REMOVAL NOTE**
- 3 REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 260 LF

- REFERENCE NOTE**
- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
 - 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
 - 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
 - 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

- CIRCUIT IDENTIFICATION**
- 1 R1 (RW EDGE LIGHTS)
 - 2 R1S (RW SIGNS)



DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



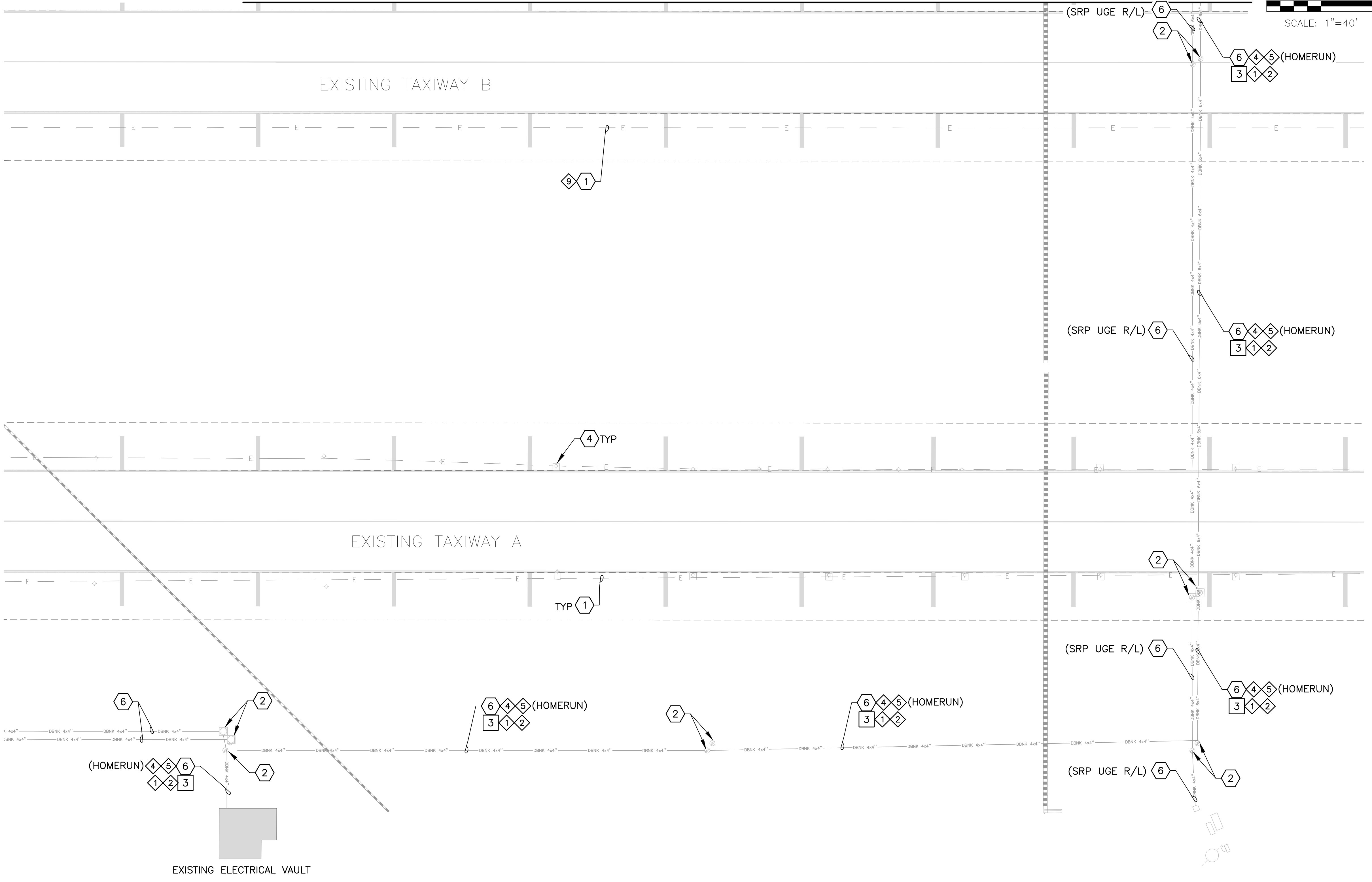
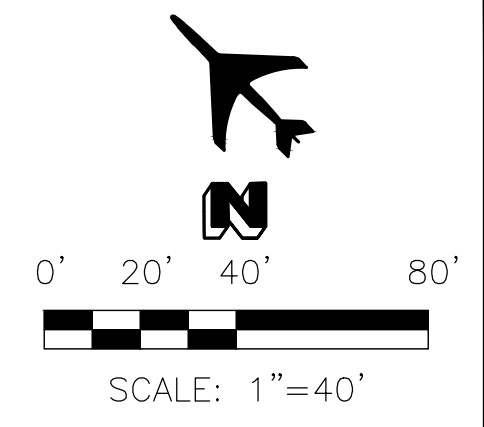
RUNWAY 12R-30L RECONSTRUCTION BASEBID
(SCH I) AIRFIELD ELECTRICAL DEMOLITION

CR engineers

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ARIZONA 811
 Arizona One Stop, Inc.
 Dial 8-1-1 or 1-800-874-8287 (TDD-8548)
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FILE:Q:\PROJECTS\220000\220206 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\220206 E1-2.1-E1-2.7 DEMOLITION_BB.dwg DATE:April 18, 2023 TIME:2:09 PM BY:jeff weidman

MATCH LINE - SEE SHEET E1-2.4



REMOVAL NOTE

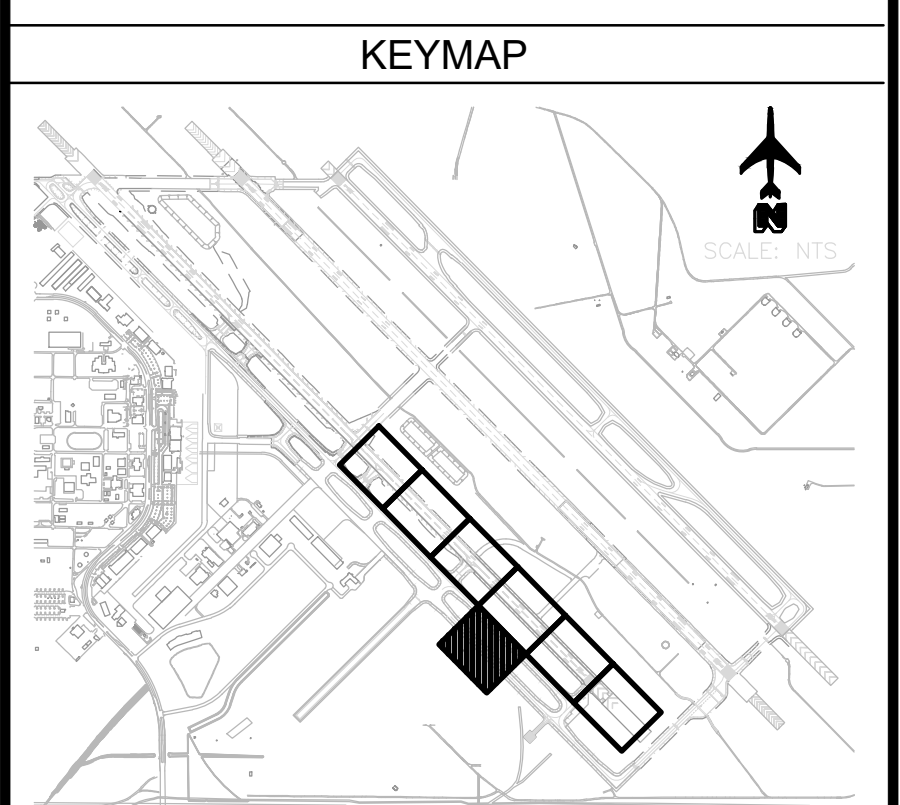
3 REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 1350 LF

REFERENCE NOTE

1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE.

CIRCUIT IDENTIFICATION

1 R1 (RW EDGE LIGHTS)
2 R1S (RW SIGNS)
4 PPN (RW 12R PAPI NORTH)
5 PPS (RW 30L PAPI SOUTH)
9 TB (TAXIWAY B)

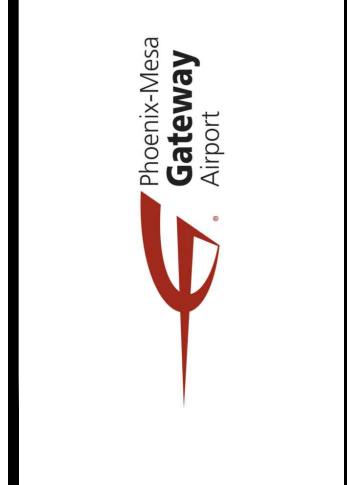


REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 13888
 CATHERINE ALCORN
 Phoenix, AZ

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID

(SCH I) AIRFIELD ELECTRICAL DEMOLITION

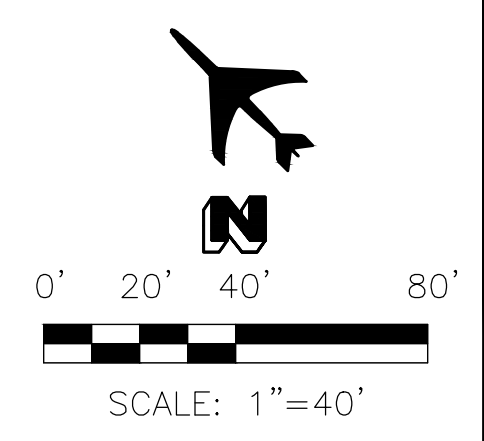
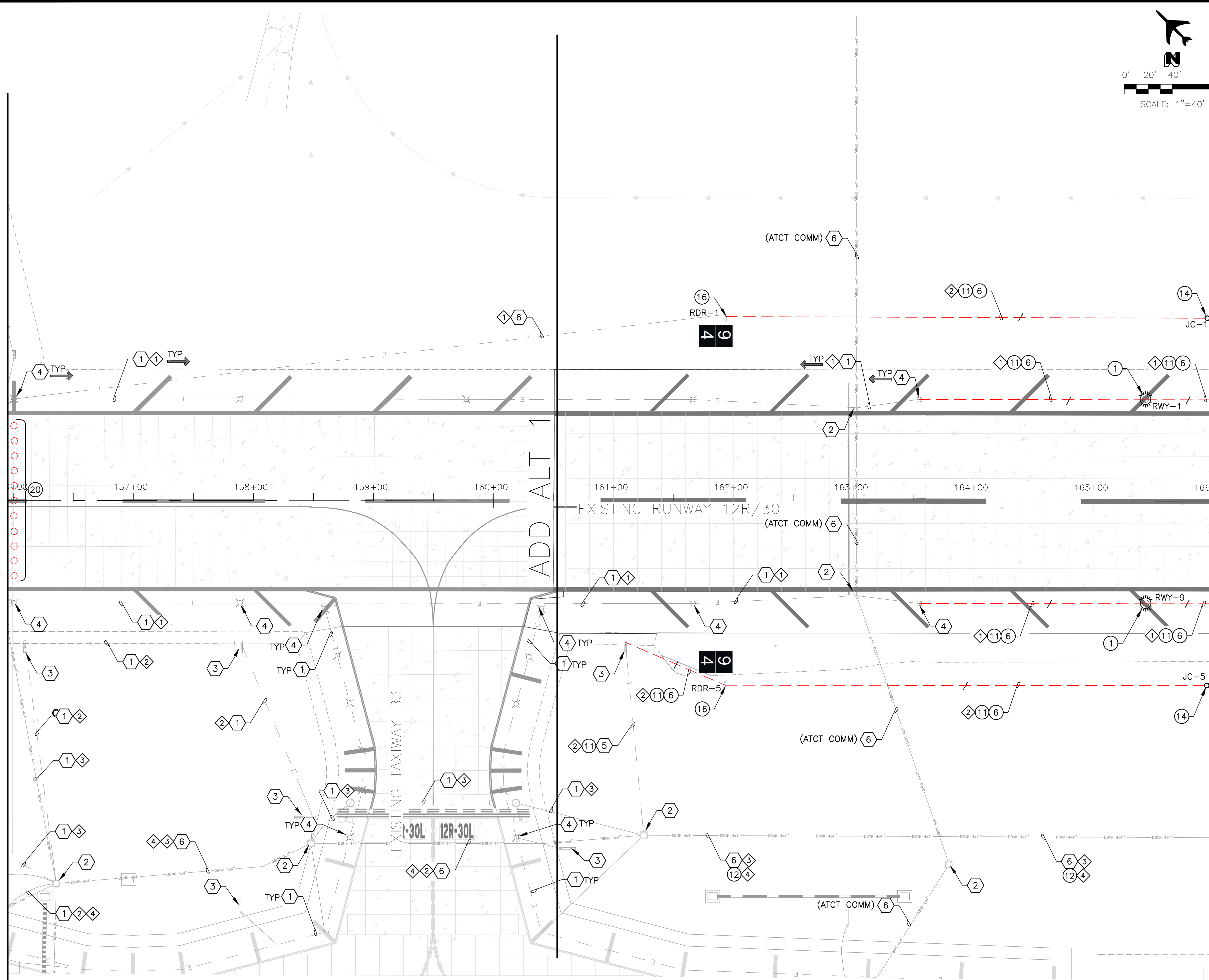
CR engineers

Call at least two full working days before you begin excavation
ARIZONA 811
 Arizona One Call, Inc.
 Dial 8-1-1 or 1-800-874-8277 (TDD-83348)
 In Maricopa County (602) 253-1100

E1-2.7

SHEET NO.
47 OF **211**

FILE Q:\PROJECTS\220000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-3.1-E1-3.7 INSTALLATION_BB.dwg DATE: April 18, 2023 TIME: 2:21 PM BY: jeff weidman



MATCH LINE STA 166+00 - SEE SHEET E1-3.2

○ CONSTRUCTION NOTES ○

①	INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE.	2 EA
⑥	NEW 1-2" C - SE	1400 LF
⑪	NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE.	1650 LF
⑫	NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE.	500 LF
⑭	NEW L-867E (24" DIA) JUNCTION CAN	2 EA
⑯	INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE	2 EA
⑳	INSTALL NEW LED L-861(L) RUNWAY TEMPORARY THRESHOLD LIGHTS AND ISOLATION TRANSFORMER	11 EA

○ REFERENCE NOTE ○

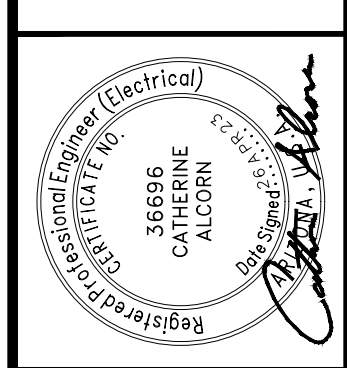
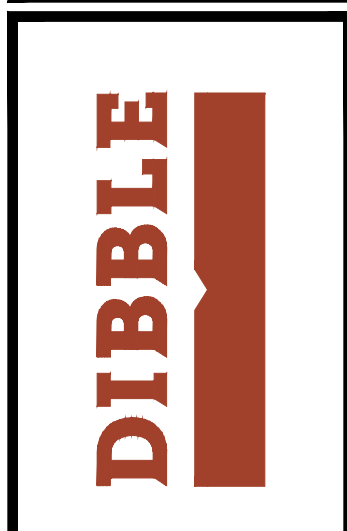
①	EXISTING CONDUIT AND CONDUCTOR
②	EXISTING HANDHOLE
③	EXISTING AIRFIELD GUIDANCE SIGN
④	EXISTING ELEVATED LIGHT FIXTURE
⑥	EXISTING DUCTBANK

◇ CIRCUIT IDENTIFICATION ◇

①	R1 (RW EDGE LIGHTS)
②	R1S (RW SIGNS)
③	RGL (RUNWAY GUARD LIGHTS)
④	PPN (RW 12R PAPI NORTH)



REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

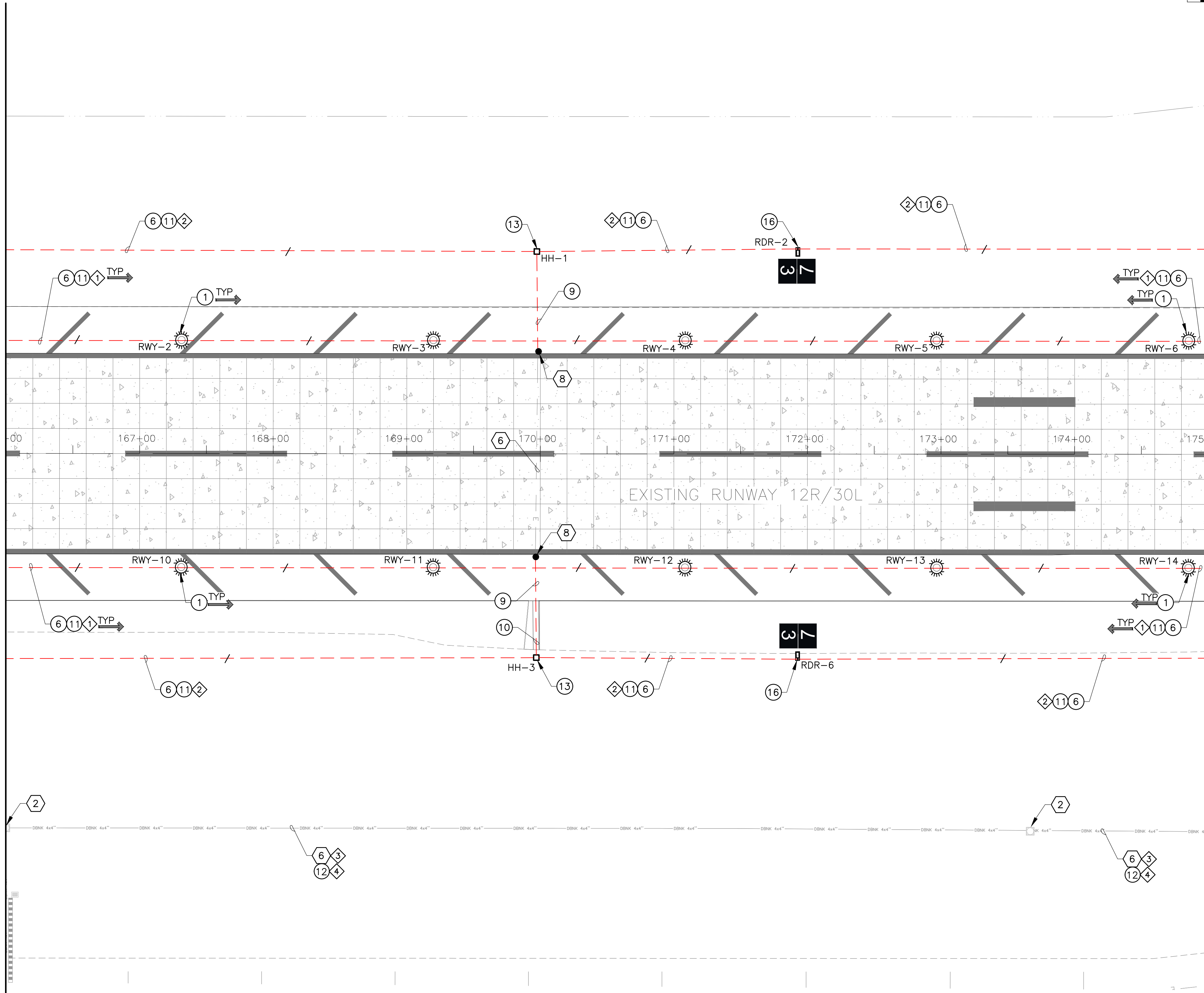


**RUNWAY '12R-30L' RECONSTRUCTION
BASEBID
(SCH 1) AIRFIELD ELECTRICAL
INSTALLATION**

FILE:G:\PROJECTS\220000\220026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-3.1-E1-3.7 INSTALLATION_BB.dwg DATE:April 20, 2023 TIME:1:49 PM BY:julio.andrino

MATCH LINE STA 166+00 - SEE SHEET E1-3.1

MATCH LINE STA 175+00 - SEE SHEET E1-3.3



CONSTRUCTION NOTES

- 1 INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 10 EA
- 6 NEW 1-2" C - SE 3600 LF
- 9 NEW 4-4" C - SE 110 LF
- 10 NEW 4-4" C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 50 LF
- 11 NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 3750 LF
- 12 NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 1020 LF
- 13 NEW 4'x4' AIRCRAFT-RATED HANDHOLE AND LID WITH SPRING ASSISTED OPENING 2 EA
- 16 INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE 2 EA

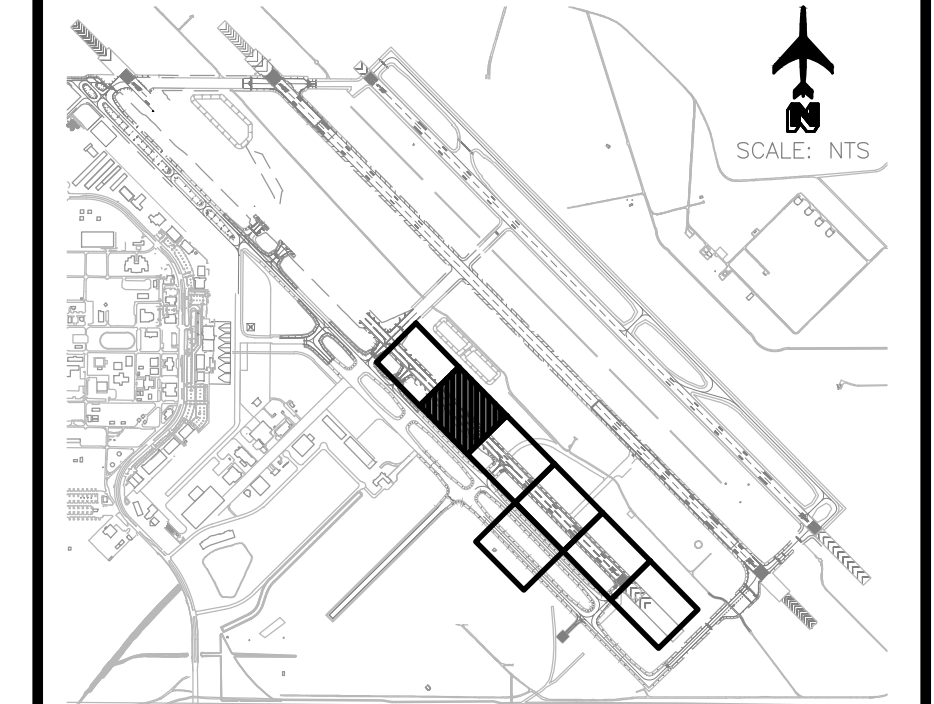
REFERENCE NOTE

- 1 EXISTING CONDUIT AND CONDUCTOR
- 2 EXISTING HANDHOLE
- 3 EXISTING AIRFIELD GUIDANCE SIGN
- 4 EXISTING ELEVATED LIGHT FIXTURE
- 6 EXISTING DUCTBANK
- 8 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.

CIRCUIT IDENTIFICATION

- 1 R1 (RW EDGE LIGHTS)
- 2 R1S (RW SIGNS)
- 3 RGL (RUNWAY GUARD LIGHTS)
- 4 PPN (RW 12R PAPI NORTH)

KEYMAP



REV	DATE	DESCRIPTION

DIBBLE

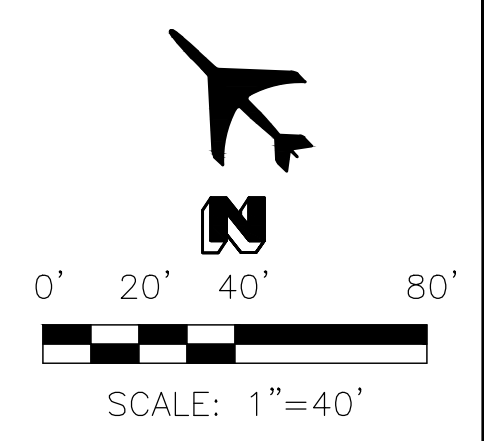
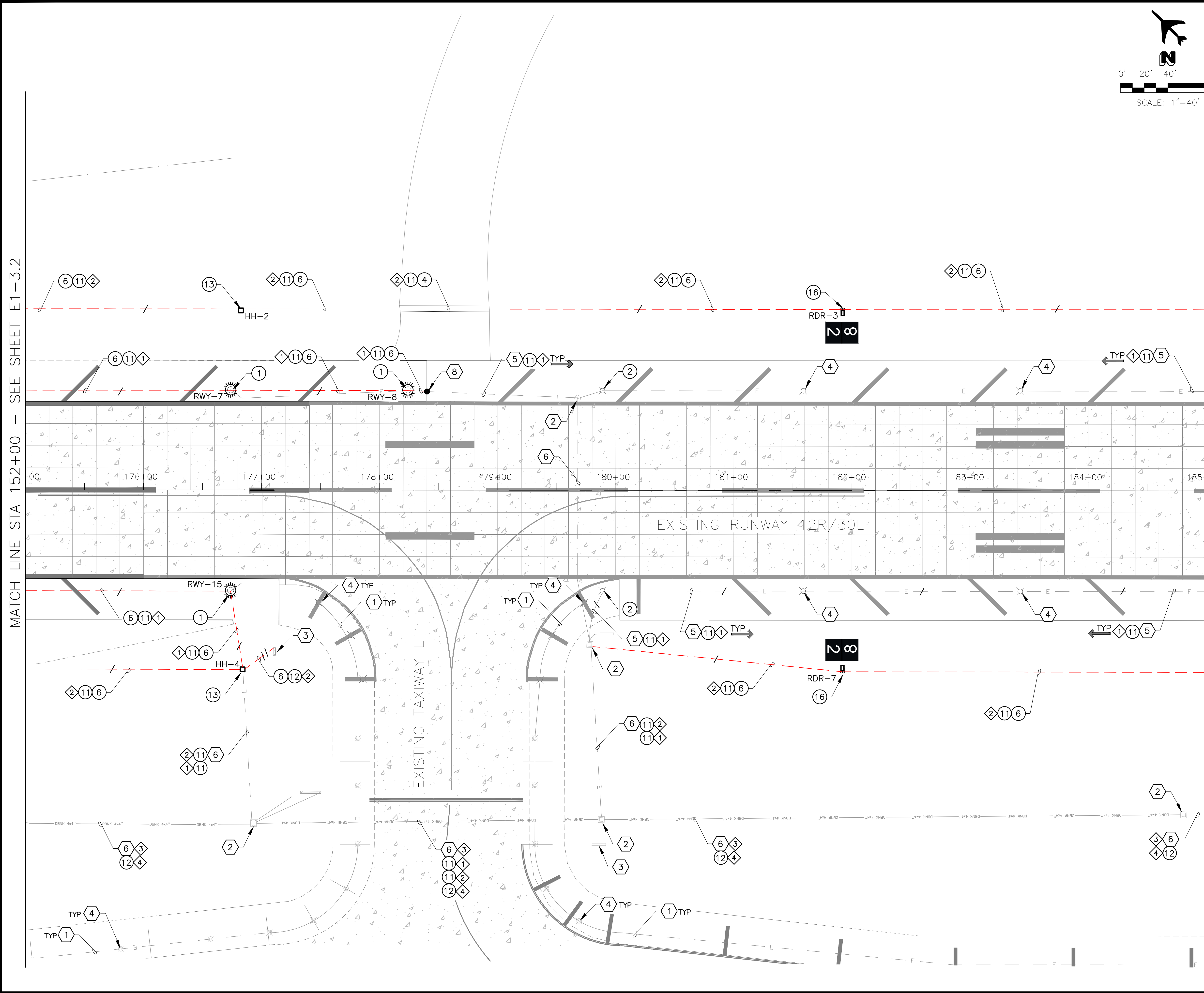
Professional Engineer (Electrical)
 License No. 15896
 CATHERINE ALDRON
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID (SCH 1) AIRFIELD ELECTRICAL INSTALLATION

FILE:G:\PROJECTS\22000\22006 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-3.1-E1-3.7 INSTALLATION_BB.dwg DATE:April 20, 2023 TIME:1:53 PM BY:Julio andrino



○ CONSTRUCTION NOTES ○

- ① INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 3 EA
- ② INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE WITH NEW BOLTS AND GASKET. 2 EA
- ④ NEW 1-2" C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 80 LF
- ⑥ NEW 1-2" C - SE 2250 LF
- ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 4850 LF
- ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 1050 LF
- ⑯ INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE 2 EA

○ REFERENCE NOTE ○

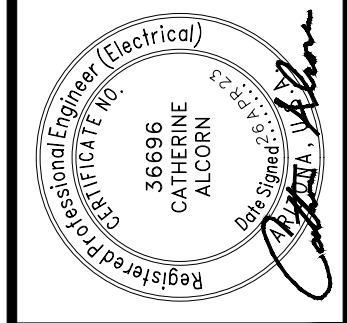
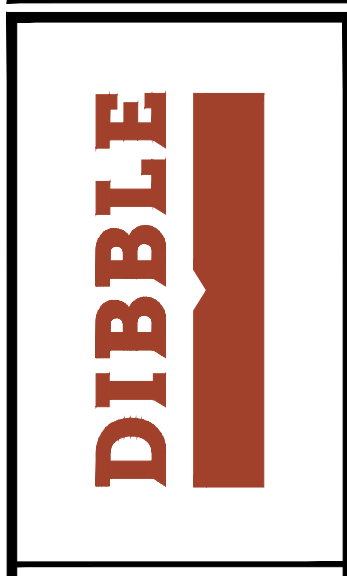
- ① EXISTING CONDUIT AND CONDUCTOR
- ② EXISTING HANDHOLE
- ③ EXISTING AIRFIELD GUIDANCE SIGN
- ④ EXISTING ELEVATED LIGHT FIXTURE
- ⑥ EXISTING DUCTBANK
- ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.

◇ CIRCUIT IDENTIFICATION ◇

- ◇ R1 (RW EDGE LIGHTS)
- ◇ R1S (RW SIGNS)
- ◇ RGL (RUNWAY GUARD LIGHTS)
- ◇ PPN (RW 12R PAPI NORTH)



REV	DATE	DESCRIPTION



DATE: 04.26.23

DESIGNED BY: SW JCA

DRAWN BY: JCA

REVIEWED BY: CA

FILE NAME: X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID (SCH 1) AIRFIELD ELECTRICAL INSTALLATION

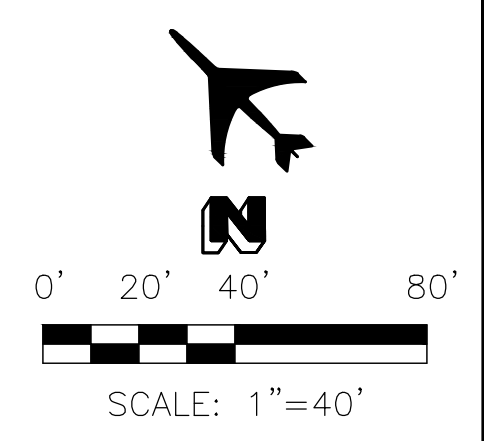
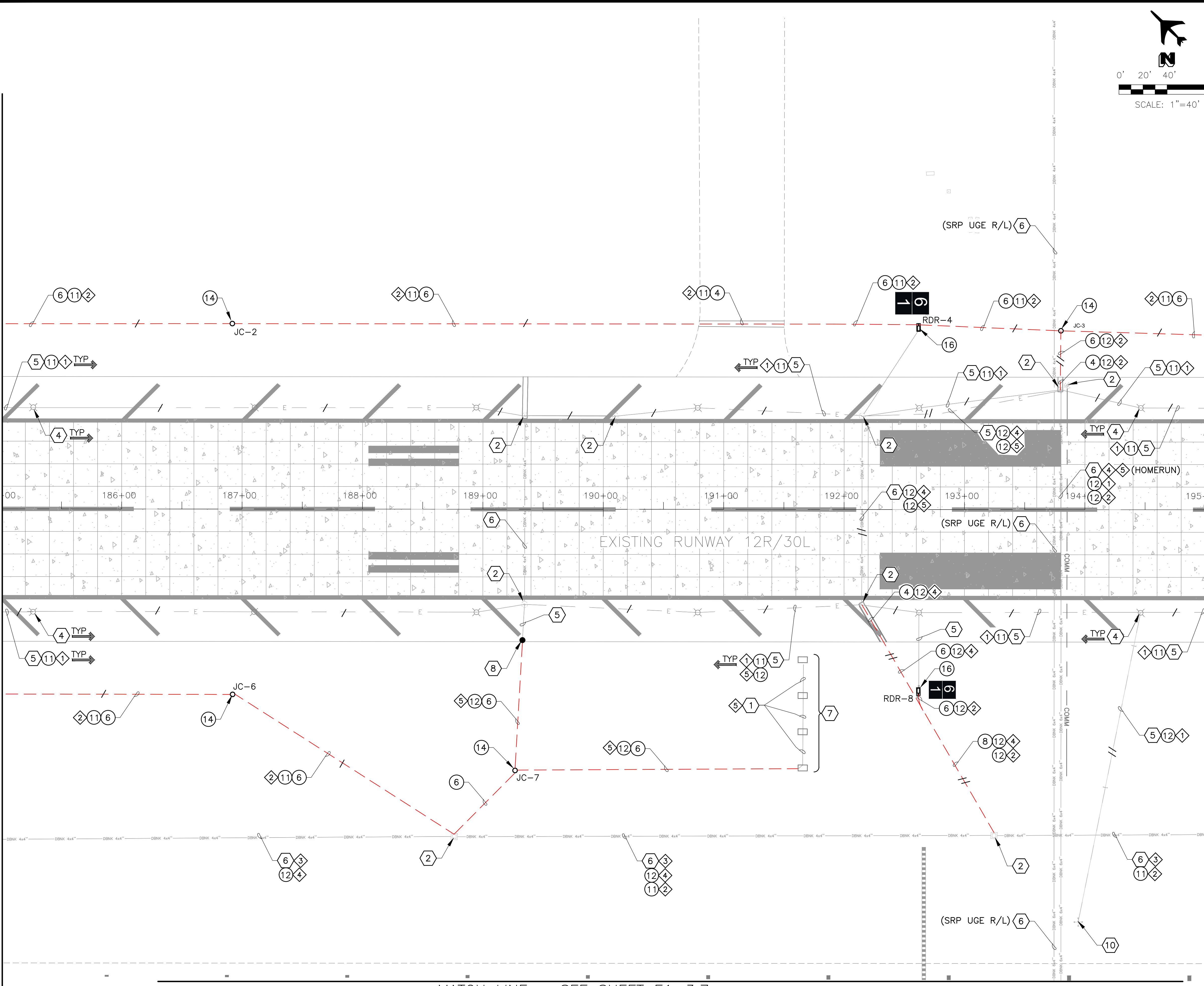
Call at least two full working days before you begin excavation!

ARIZONA 811
Arizona's One-Call System

Dist 8-1-1 or 1-800-874-8111 (TDD-8348)
In Maricopa County: (602) 965-1100

FILE:G:\PROJECTS\220000\220206 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\220206 E1-3.1-E1-3.7 INSTALLATION BB.dwg DATE:April 26, 2023 TIME:1:19 PM BY:julio.andrino

MATCH LINE STA 185+00 - SEE SHEET E1-3.3



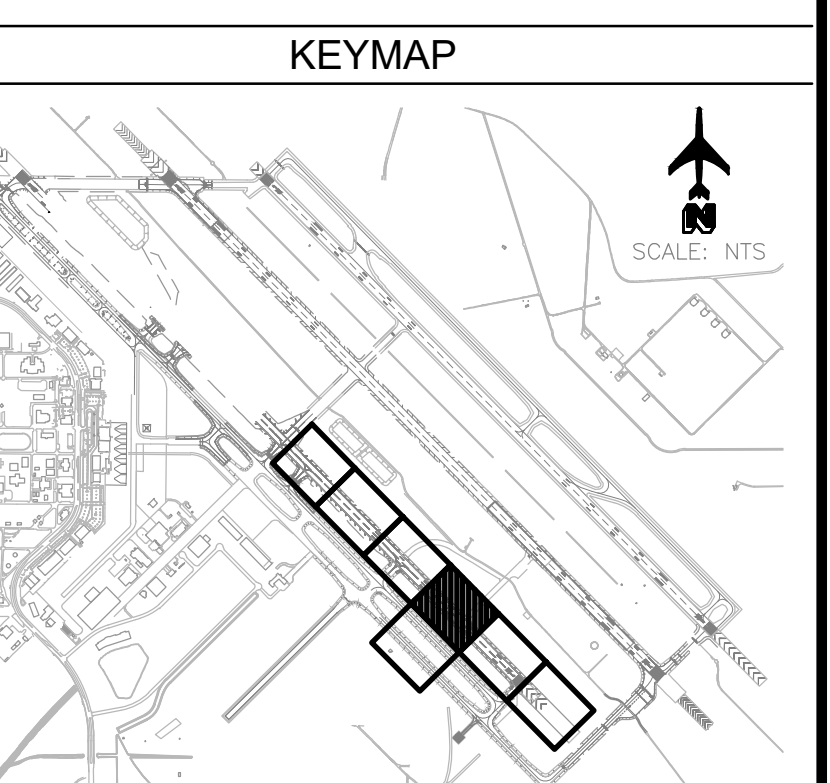
MATCH LINE STA 195+00 - SEE SHEET E1-3.5

MATCH LINE - SEE SHEET E1-3.7

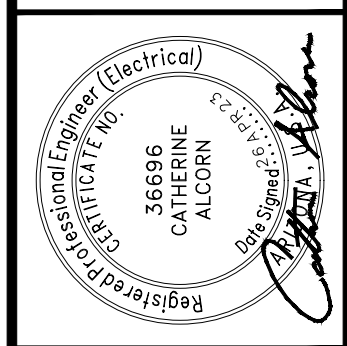
- CONSTRUCTION NOTES
- ④ NEW 1-2" C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 80 LF
 - ⑥ NEW 1-2" C - SE 2050 LF
 - ⑧ NEW 2-2" C - SE 150 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 4100 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 4100 LF
 - ⑭ NEW L-867E (24" DIA) JUNCTION CAN 4 EA
 - ⑯ INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE 2 EA

- REFERENCE NOTE
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK
 - ⑦ EXISTING PAPI
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
 - ⑩ EXISTING WINDCONE

- CIRCUIT IDENTIFICATION
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)
 - ⑤ PPS (RW 30L PAPI SOUTH)



REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID (SCH 1) AIRFIELD ELECTRICAL INSTALLATION

CR engineers

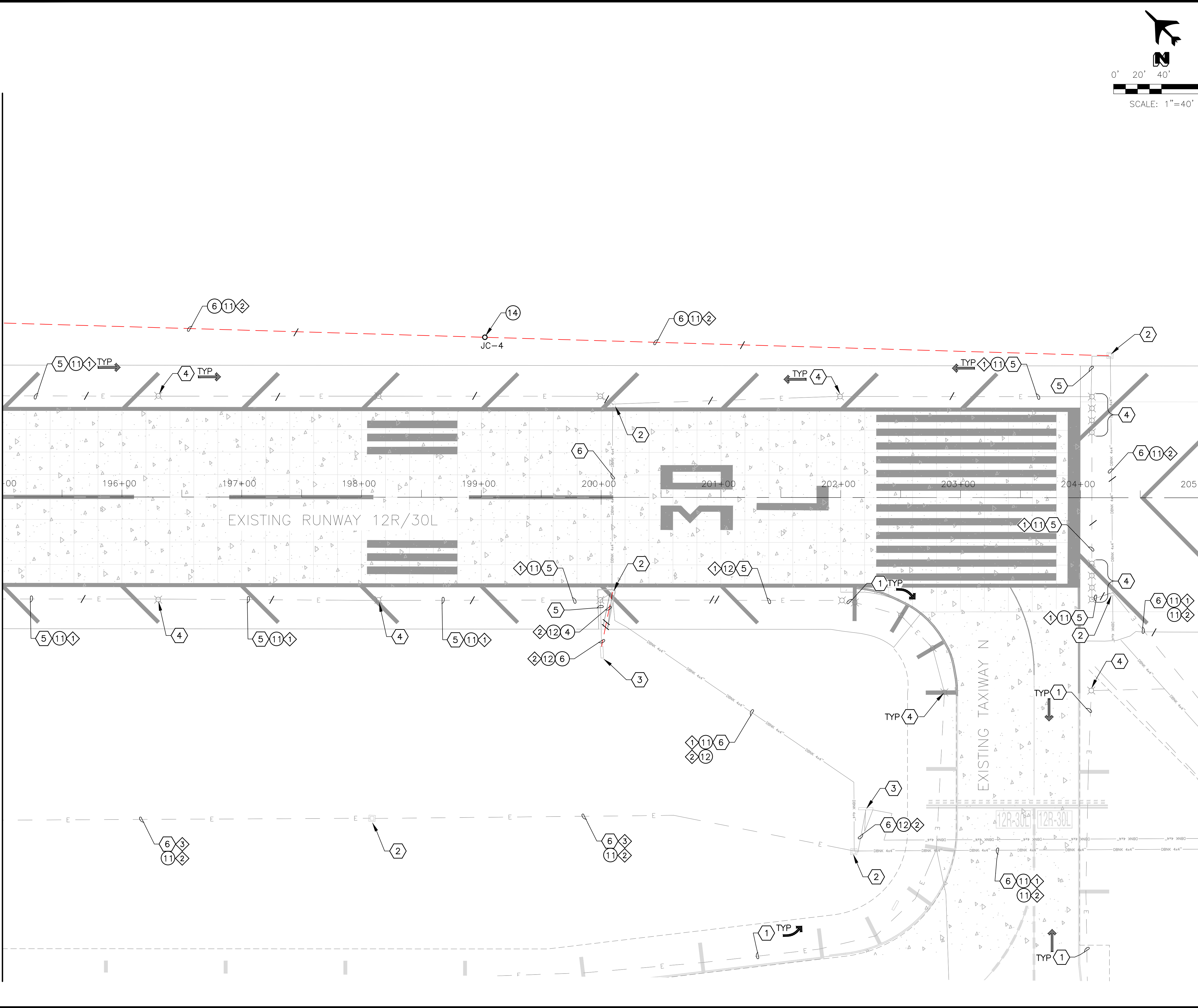
Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona's One-Call System

Hot 8-1-1 or 1-800-874-8111 (TDD-8348)
 in Maricopa County: (602) 963-1100

FILE:Q:\PROJECTS\220000\220206 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\220206 E1-3.1-E1-3.7 INSTALLATION_BB.dwg DATE:April 18, 2023 TIME:2:31 PM BY:jeff weidman

MATCH LINE STA 195+00 - SEE SHEET E1-3.4

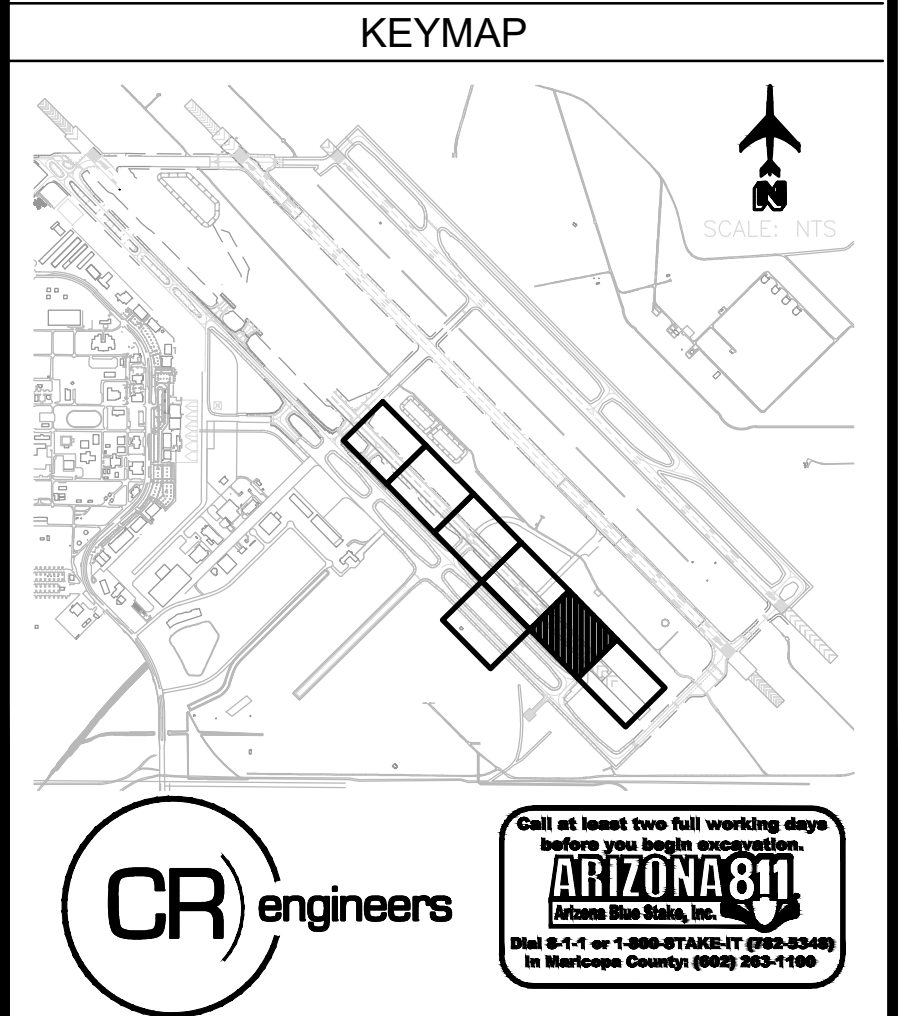


MATCH LINE STA 205+00 - SEE SHEET E1-3.6

- CONSTRUCTION NOTES ○
- ④ NEW 1-2" C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 50 LF
 - ⑥ NEW 1-2" C - SE 1050 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 4850 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 400 LF
 - ⑭ NEW L-867E (24" DIA) JUNCTION CAN 1 EA

- REFERENCE NOTE ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)



REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 REG. NO. 12345
 JESSIE CATHERINE ALDRON
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID (SCH 1) AIRFIELD ELECTRICAL INSTALLATION

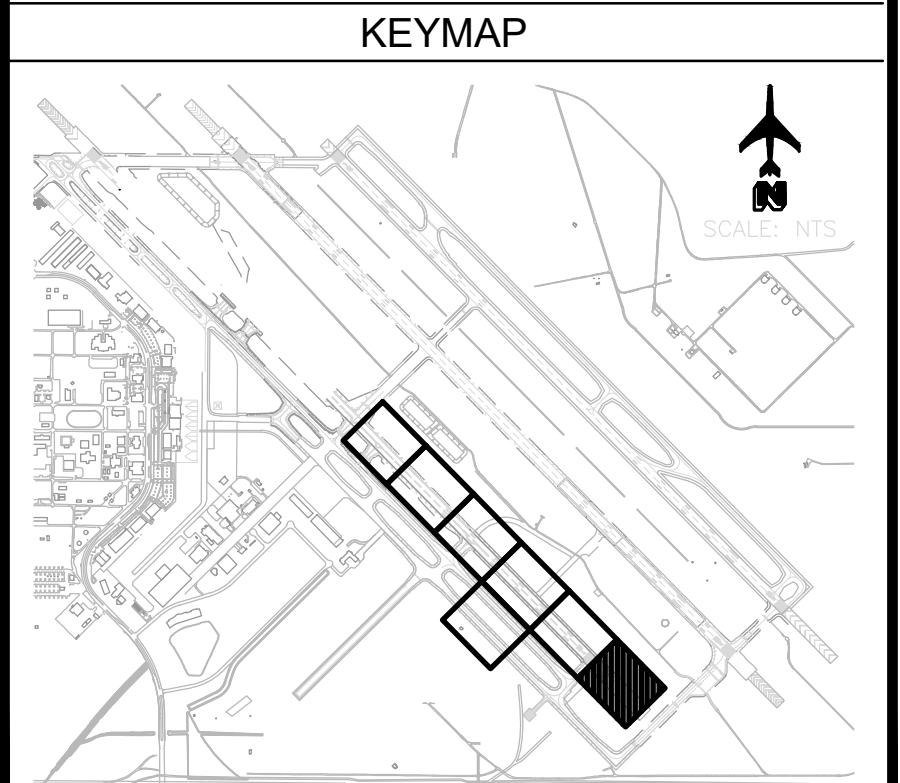
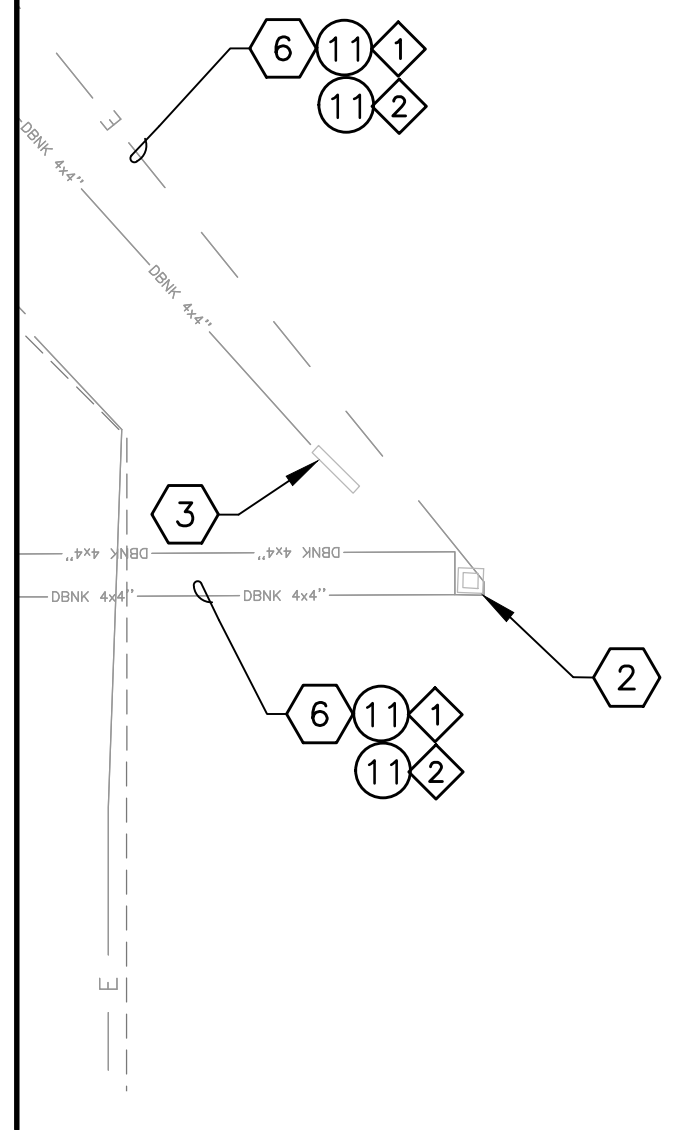
CR engineers

Call at least two full working days before you begin construction.

ARIZONA 811
 Arizona Statewide Utility Location System
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 In Maricopa County (602) 253-1100

FILE Q:\PROJECTS\220000\22026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-3.1-E1-3.7 INSTALLATION BB.dwg DATE: April 18, 2023 TIME: 2:33 PM BY: jeff weidman

MATCH LINE STA 205+00 - SEE SHEET E1-3.5



CR engineers

Call at least two full working days before you begin construction:
ARIZONA 811
 Arizona One Call, Inc.
 Dial 8-1-1 or 1-800-874-8277 (TDD-8248)
 in Maricopa County (602) 263-1100

○ CONSTRUCTION NOTES ○

11 NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 530 LF

◇ REFERENCE NOTE ◇

2 EXISTING HANDHOLE
 3 EXISTING AIRFIELD GUIDANCE SIGN
 6 EXISTING DUCTBANK

◇ CIRCUIT IDENTIFICATION ◇

1 R1 (RW EDGE LIGHTS)
 2 R1S (RW SIGNS)

REV	DATE	DESCRIPTION

DIBBLE

Registered Professional Engineer (Electrical)
 CR E.E. No. 18888
 CATHARINE ALDRIN
 Date: 04/18/23

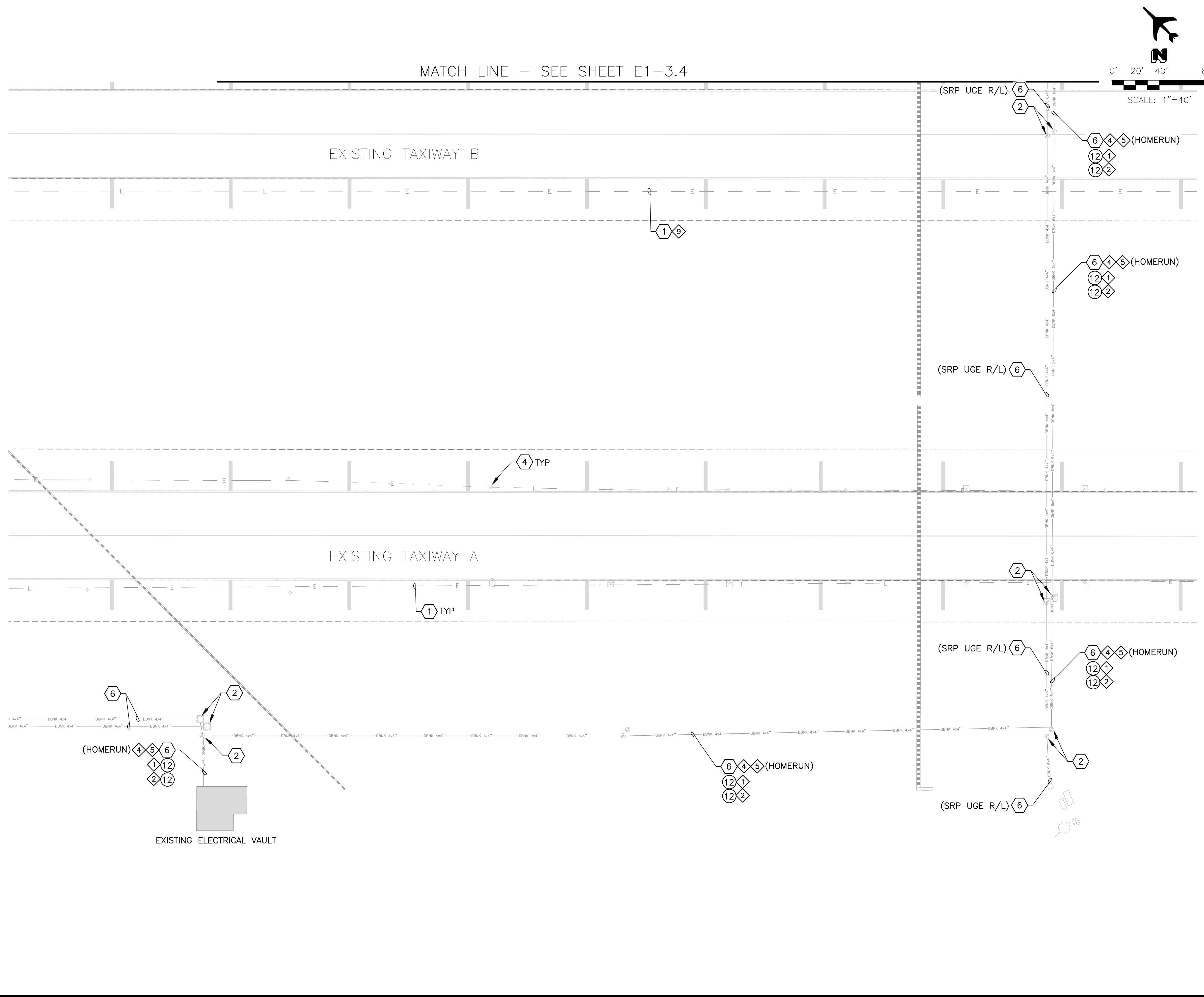
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY 12R-30L RECONSTRUCTION BASEBID (SCH 1) AIRFIELD ELECTRICAL INSTALLATION

E1-3.6
 SHEET NO.
53 OF 211

FILE:Q:\PROJECTS\22000\22026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-3.1-E1-3.7 INSTALLATION_BB.dwg DATE:April 18, 2023 TIME:2:38 PM BY:jeff weidman



CONSTRUCTION NOTES

12	NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 2850 LF
----	---

REFERENCE NOTE

1	EXISTING CONDUIT AND CONDUCTOR
2	EXISTING HANDHOLE
4	EXISTING ELEVATED LIGHT FIXTURE
6	EXISTING DUCTBANK

CIRCUIT IDENTIFICATION

1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
4	PPN (RW 12R PAPI NORTH)
5	PPS (RW 30L PAPI SOUTH)
9	TB (TAXIWAY B)

KEYMAP

CR engineers

ARIZONA 811

Call at least two full working days before you begin excavation

811 or 1-800-874-8111

Phoenix/Mesa Gateway Airport

DATE: 04.26.23
 DESIGNED BY: SW
 DRAWN BY: JCA
 REVIEWED BY: CA
 FILE NAME: X

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 C.E. No. 12588
 CATHERINE ALCOORN

Phoenix/Mesa Gateway Airport

RUNWAY '12R-30L' RECONSTRUCTION BASEBID (SCH 1) AIRFIELD ELECTRICAL INSTALLATION

E1-3.7

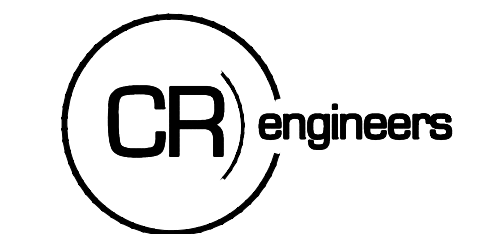
SHEET NO. 54 OF 211

FILE Q:\PROJECTS\22000\22006 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\BASEBID\22026 E1-4.1 SIGN DATA TABLES.dwg DATE: April 18, 2023 TIME: 2:39 PM BT: jeff weidman

PMGA RUNWAY 12R-30L DISTANCE REMAINING SIGN SCHEDULE												
SIGN NUMBER	CIRCUIT	SIGN WITH FACE DESIGNATIONS	FACE A MESSAGE	FACE B MESSAGE	FACE COLOR(S)		STYLE	SIZE	SHEET NUMBER	SCOPE OF WORK		
					NUMBER/BACKGROUND	NUMBER/BACKGROUND						
RDR-1	R1S	A <table border="1"><tr><td>4</td><td>9</td></tr></table> B	4	9	4	6	W/B	W/B	2	5	E1-3.1	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
4	9											
RDR-2	R1S	A <table border="1"><tr><td>3</td><td>7</td></tr></table> B	3	7	3	7	W/B	W/B	2	5	E1-3.2	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
3	7											
RDR-3	R1S	A <table border="1"><tr><td>2</td><td>8</td></tr></table> B	2	8	2	8	W/B	W/B	2	5	E1-3.3	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
2	8											
RDR-4	R1S	A <table border="1"><tr><td>1</td><td>6</td></tr></table> B	1	6	1	9	W/B	W/B	2	5	E1-3.4	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
1	6											
RDR-5	R1S	A <table border="1"><tr><td>4</td><td>9</td></tr></table> B	4	9	4	6	W/B	W/B	2	5	E1-3.1	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
4	9											
RDR-6	R1S	A <table border="1"><tr><td>3</td><td>7</td></tr></table> B	3	7	3	7	W/B	W/B	2	5	E1-3.2	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
3	7											
RDR-7	R1S	A <table border="1"><tr><td>2</td><td>8</td></tr></table> B	2	8	2	8	W/B	W/B	2	5	E1-3.3	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
2	8											
RDR-8	R1S	A <table border="1"><tr><td>1</td><td>6</td></tr></table> B	1	6	1	9	W/B	W/B	2	5	E1-3.4	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
1	6											
RDR-9	R1S	A <table border="1"><tr><td>5</td><td>5</td></tr></table> B	5	5	5	5	W/B	W/B	2	5	E3-3.7	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
5	5											
RDR-10	R1S	A <table border="1"><tr><td>5</td><td>5</td></tr></table> B	5	5	5	5	W/B	W/B	2	5	E3-3.7	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
5	5											
RDR-11	R1S	A <table border="1"><tr><td>6</td><td>1</td></tr></table> B	6	1	9	1	W/B	W/B	2	5	E3-3.3	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
6	1											
RDR-12	R1S	A <table border="1"><tr><td>8</td><td>2</td></tr></table> B	8	2	8	2	W/B	W/B	2	5	E3-3.4	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
8	2											
RDR-13	R1S	A <table border="1"><tr><td>7</td><td>3</td></tr></table> B	7	3	7	3	W/B	W/B	2	5	E3-3.5	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
7	3											
RDR-14	R1S	A <table border="1"><tr><td>9</td><td>4</td></tr></table> B	9	4	6	4	W/B	W/B	2	5	E3-3.6	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
9	4											
RDR-15	R1S	A <table border="1"><tr><td>6</td><td>1</td></tr></table> B	6	1	9	1	W/B	W/B	2	5	E3-3.3	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
6	1											
RDR-16	R1S	A <table border="1"><tr><td>8</td><td>2</td></tr></table> B	8	2	8	2	W/B	W/B	2	5	E3-3.4	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
8	2											
RDR-17	R1S	A <table border="1"><tr><td>7</td><td>3</td></tr></table> B	7	3	7	3	W/B	W/B	2	5	E3-3.5	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
7	3											
RDR-18	R1S	A <table border="1"><tr><td>9</td><td>4</td></tr></table> B	9	4	6	4	W/B	W/B	2	5	E3-3.6	NEW LED RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE
9	4											

BASEBID

ADD ALT 2

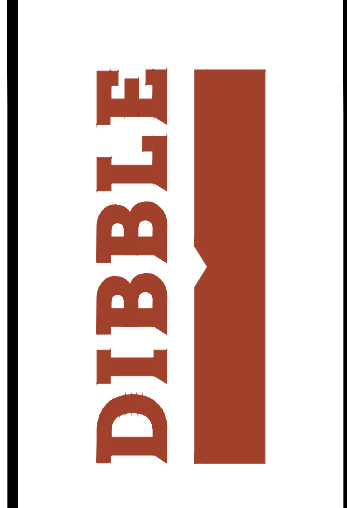
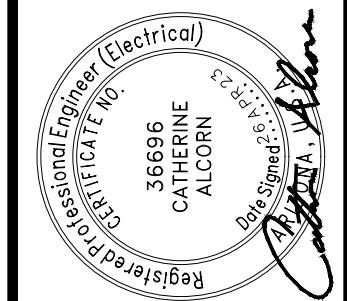


**RUNWAY '12R-30L' RECONSTRUCTION
BASEBID**

AIRFIELD GUIDANCE SIGN SCHEDULE

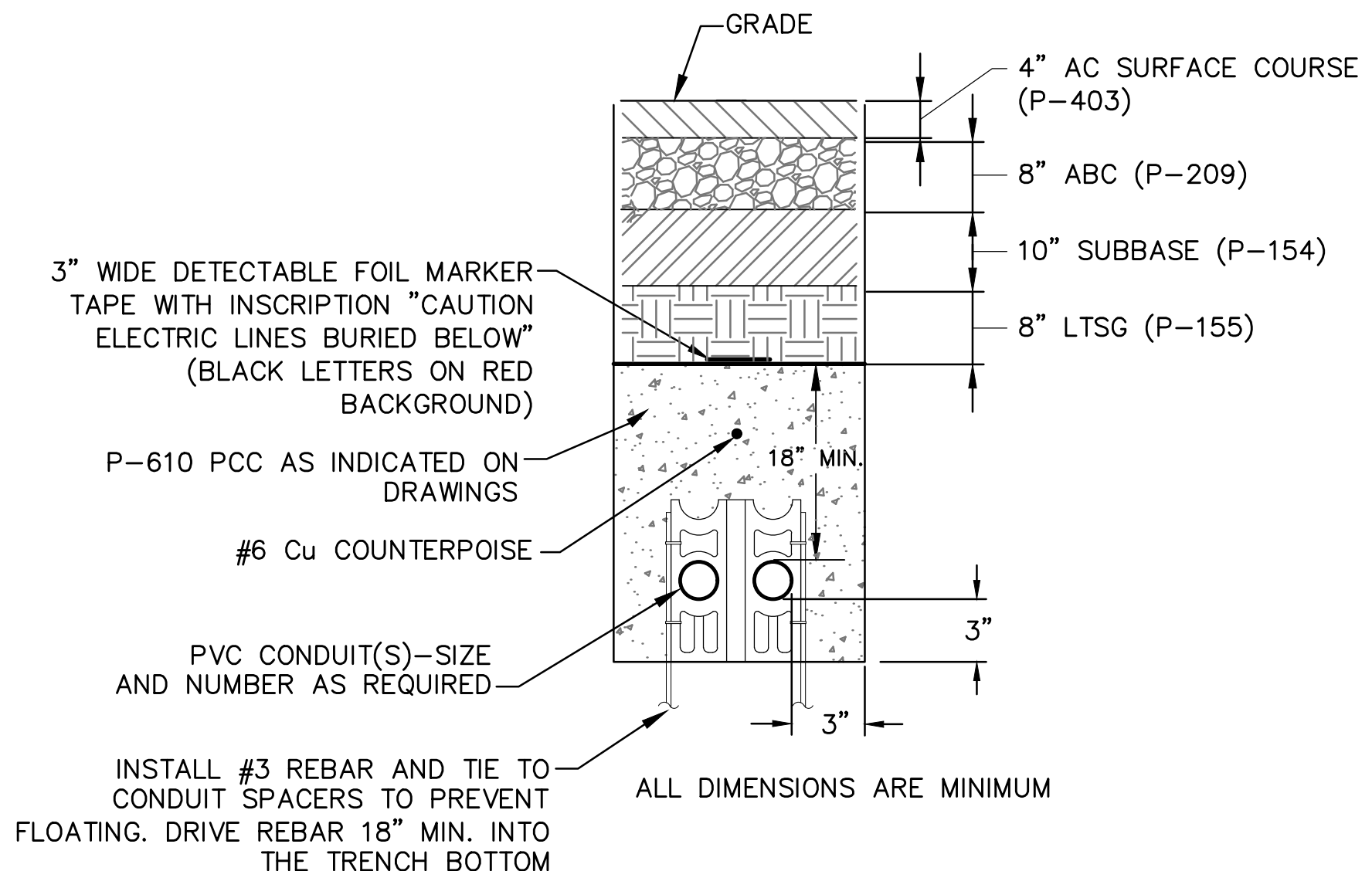


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DRAWN BY: JCA
REVIEWED BY: CA
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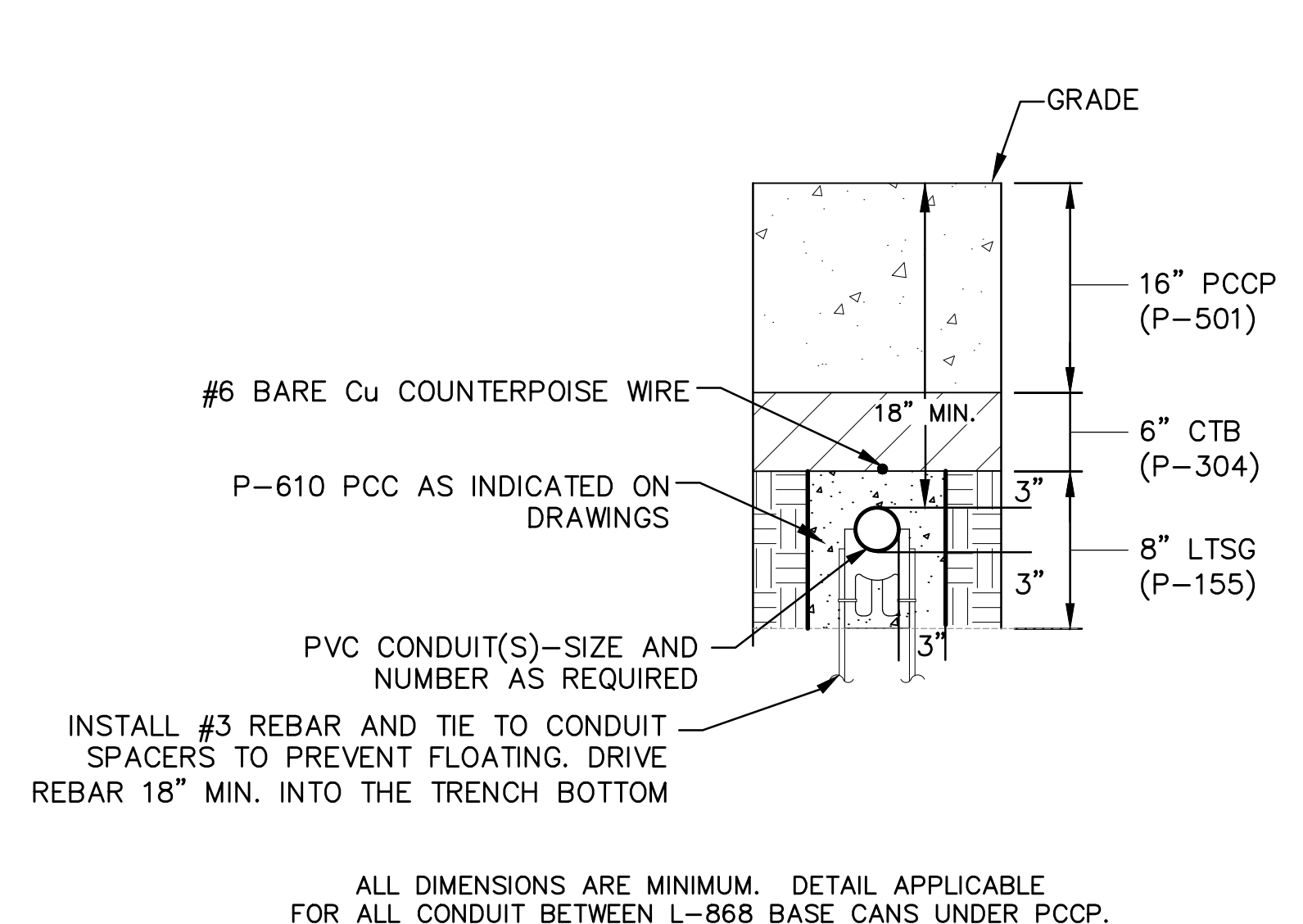


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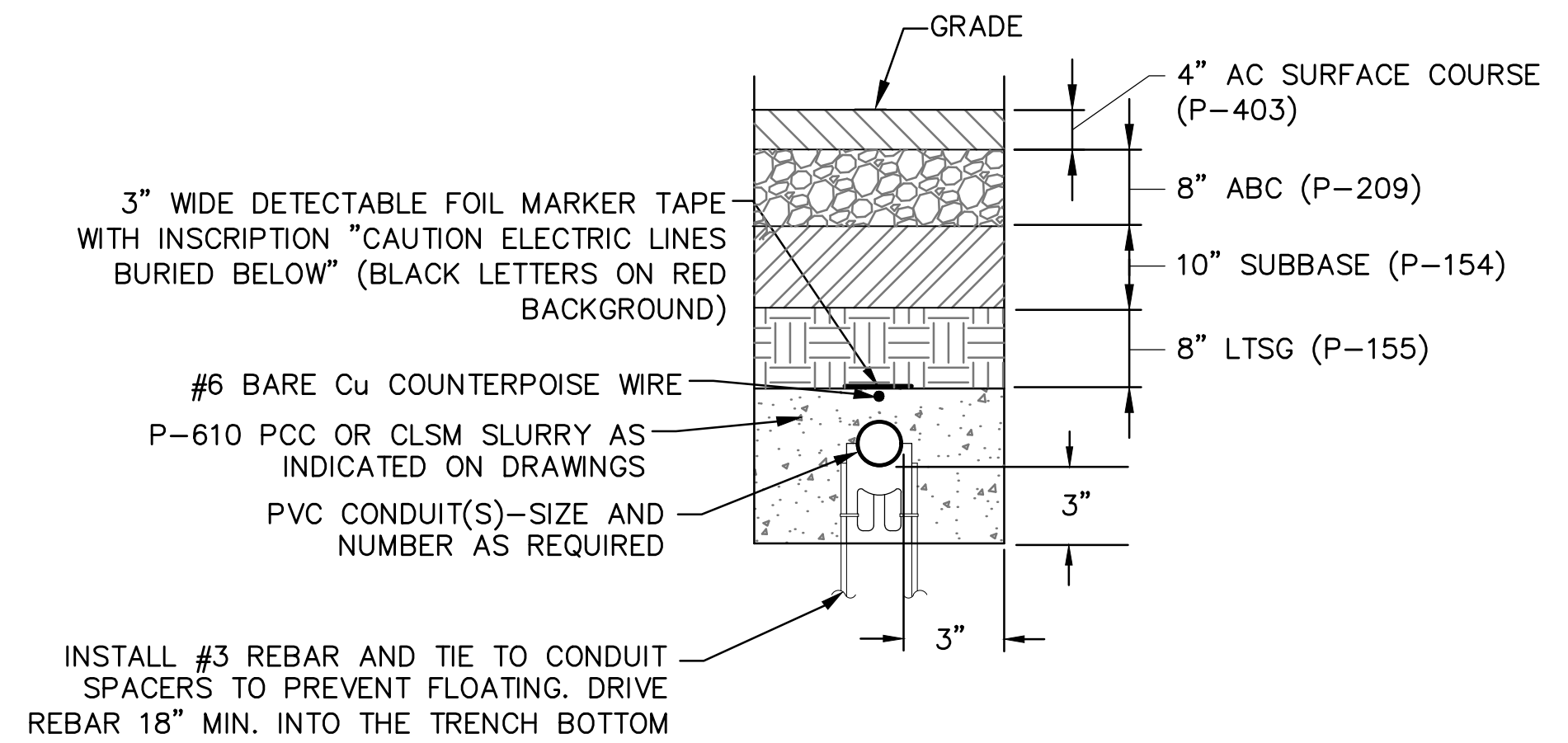
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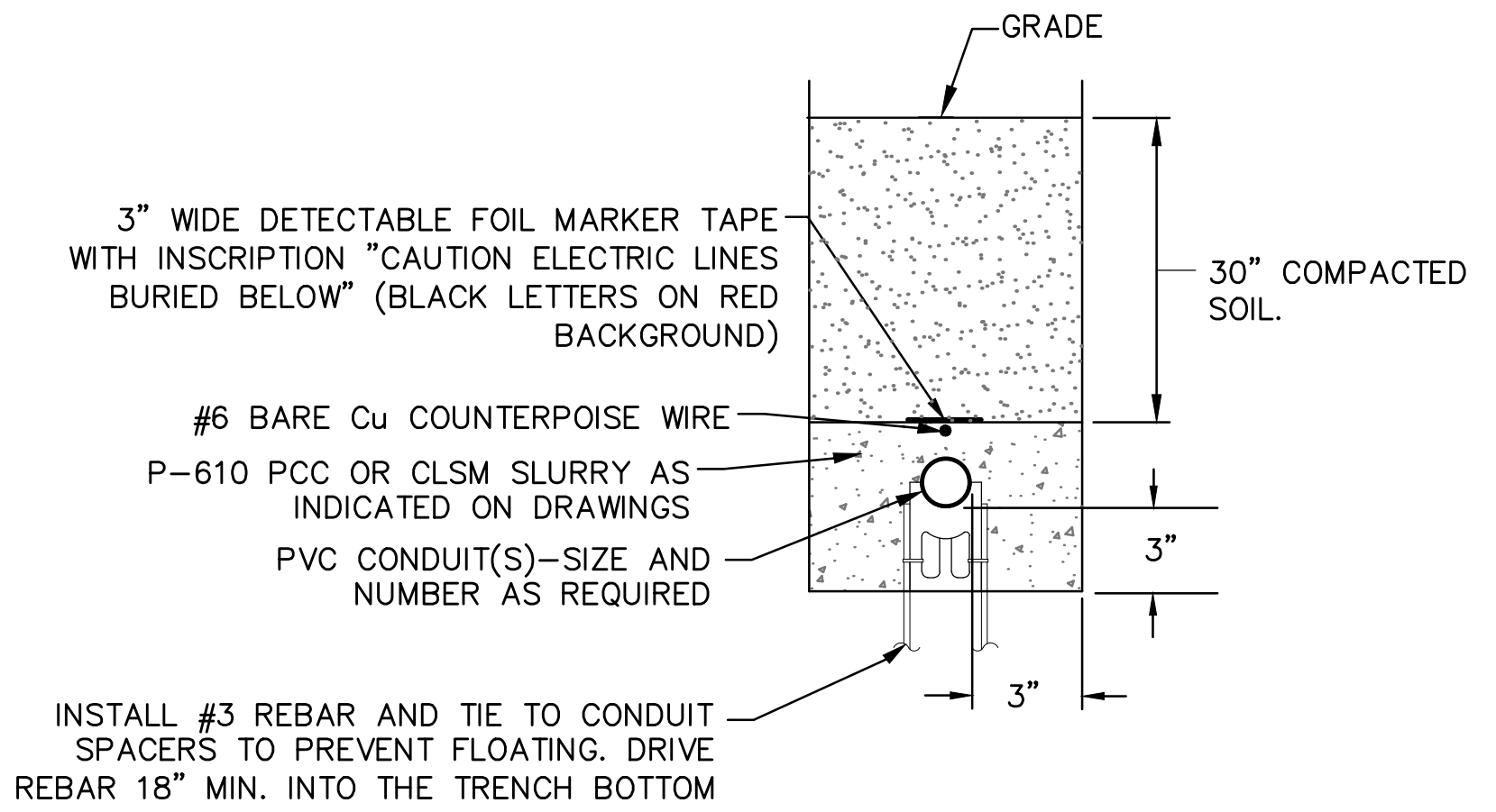
503 TYP CONCRETE ENCASED (CE) CONDUIT DUCTBANK NTS



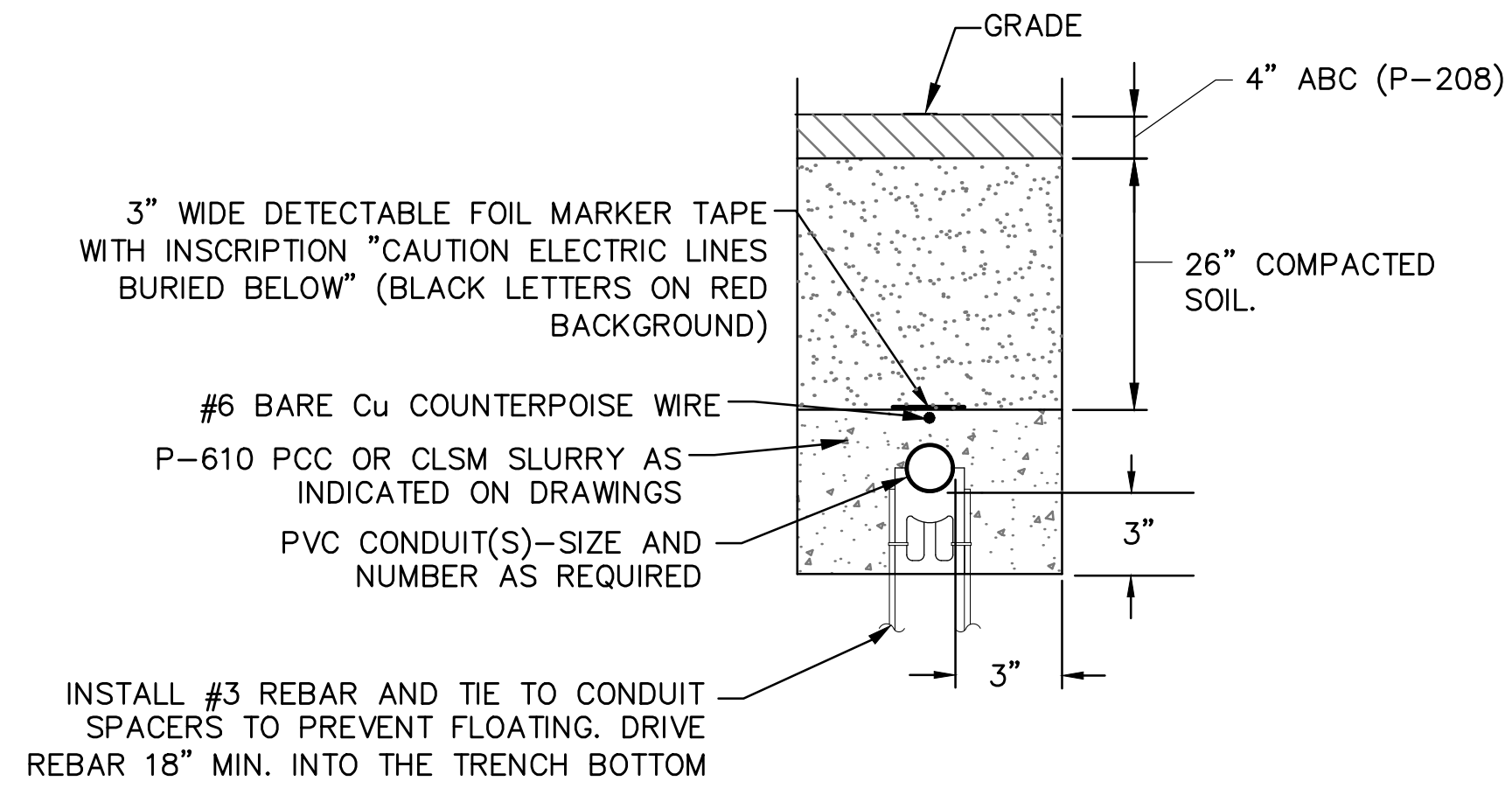
505 TYP CONCRETE ENCASED EDGE LIGHTING CONDUIT DETAIL NTS



506 TYP EDGE LIGHTING CONDUIT DETAIL UNDER NEW AC SHOULDERS NTS



507 TYP EDGE LIGHTING CONDUIT DETAIL UNDER INFIELD AREAS NTS



508 TYP EDGE LIGHTING CONDUIT DETAIL UNDER DETERIORATED AC PAVEMENT NTS

GENERAL NOTES FOR CONDUIT INSTALLATION

1. CONCRETE ENCASED DUCTBANKS SHALL BE USED WHEN CROSSING UNDER PAVEMENTS EXPECTED TO CARRY AIRCRAFT LOADS SUCH AS RUNWAYS, TAXIWAYS, TAXI-LANES, RAMPS, AND APRONS OR VEHICULAR TRAFFIC SUCH AS SERVICE ROADS. WHEN UNDER PAVED SHOULDERS AND OTHER PAVED AREAS, CONDUIT AND DUCTBANKS SHALL BE ENCASED USING FLOWABLE FILL FOR PROTECTION.
2. UNDER PAVEMENT, THE TOP OF THE DUCTBANKS SHALL NOT BE LESS THAN 18 INCHES BELOW THE SUBGRADE; IN OTHER LOCATION THE TOP OF THE DUCTBANK OR UNDERGROUND CONDUIT SHALL BE NOT LESS THAN 18 INCHES BELOW FINISHED GRADE.
3. DUCTBANKS SHALL BE INSTALLED SO THAT THE TOP OF THE CONCRETE ENVELOPE IN NOT LESS THAN 18 INCHES BELOW THE BOTTOM OF THE BASE OR STABILIZED BASE COURSE LAYERS WHERE INSTALLED UNDER RUNWAY, TAXIWAYS, APRONS, OR OTHER PAVED AREAS, AND NOT LESS THAN 18 INCHES BELOW FINISHED GRADE WHERE INSTALLED IN UNPAVED AREAS.
4. ALL DUCTBANKS SHALL BE PLACED ON A LAYER OF CONCRETE NOT LESS THAN 3 INCHES THICK PRIOR TO ITS INITIAL SET. THE CONTRACTOR SHALL SPACE THE CONDUITS NOT LESS THAN 3 INCHES APART (MEASURED FROM OUTSIDE WALL TO OUTSIDE WALL).
5. ALL SUCH MULTIPLE CONDUITS SHALL BE PLACED USING CONDUIT SPACERS, APPLICABLE TO THE TYPE OF CONDUIT. CONCRETE SHALL BE PLACED AROUND AND ON TOP OF THE CONDUITS NOT LESS THAN 3 INCHES THICK.
6. CONDUITS FORMING THE DUCTBANK SHALL BE INSTALLED USING CONDUIT SPACERS. #4 REINFORCING BARS SHALL BE DRIVEN VERTICALLY INTO THE SOIL A MINIMUM OF 6 INCHES TO ANCHOR THE ASSEMBLY INTO THE EARTH PRIOR TO PLACING THE CONCRETE ENCASEMENT. SPACERS SHALL BE INSTALLED AT 5 FEET INTERVALS.
7. ALL PAVEMENT SURFACES THAT ARE TO HAVE DUCTS INSTALLED THEREIN SHALL BE NEATLY SAW CUT TO FORM VERTICAL FACE. ALL EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE CONTRACT WITH PRICE FOR THE DUCT.
8. BARE SOLID #6 AWG COPPER COUNTERPOISE WIRE SHALL BE INSTALLED FOR LIGHTNING PROTECTION OF THE UNDERGROUND CABLES. THE COUNTERPOISE CONDUCTOR SHALL BE INSTALLED NO LESS THAN 8 INCHES MINIMUM OR 12 INCHES MAXIMUM ABOVE THE RACEWAY OR CABLE TO BE PROTECTED, EXCEPT AS PERMITTED BELOW:
 - A. THE MINIMUM COUNTERPOISE CONDUCTOR HEIGHT ABOVE THE RACEWAY OR CABLE TO BE PROTECTED SHALL BE PERMITTED TO BE ADJUSTED SUBJECT TO COORDINATION WITH AIRFIELD LIGHTING AND PAVEMENT DESIGNS.
 - B. THE COUNTERPOISE CONDUCTOR HEIGHT ABOVE THE PROTECTED RACEWAY(S) OR CABLE(S) SHALL BE CALCULATED TO ENSURE THAT THE RACEWAY OR CABLE IS WITHIN A 45-DEGREE AREA OF PROTECTION (45 DEGREES ON EACH SIDE OF VERTICAL CREATING A 90-DEGREE ANGLE).
9. INSTALL A PLASTIC, DETECTABLE, RED, 3 INCH WIDE TAPE LOCATED 8 INCHES (MINIMUM) BELOW GRADE ABOVE ALL UNDERGROUND CONDUIT OR DUCT LINES NOT INSTALLED UNDER PAVEMENT. UNDERGROUND ELECTRICAL WARNING (CAUTION) TAPE SHALL BE INSTALLED IN THE TRENCH ABOVE ALL UNDERGROUND DUCTBANKS AND CONDUIT IN UNPAVED AREAS. THE WARNING TAPE SHALL BE LOCATED 6 INCHES ABOVE THE DUCT/CONDUIT OR THE COUNTERPOISE WIRE IF PRESENT.
10. PROVIDE MULE TAPE IN ALL NEW (UNUSED) CONDUITS. PLUG ENDS IN HANDHOLES
11. P-610 CONCRETE ENCASE UNDER PAVEMENT PER SPECIFICATION L-110.
12. INSTALL A #6 BARE COPPER COUNTERPOISE ABOVE EACH DUCT ASSEMBLY FROM HANDHOLE TO HANDHOLE AND EXOTHERMICALLY WELD TO GROUND RODS AT EACH HANDHOLE.
13. ALL UNDERGROUND CONDUITS SHALL MAINTAIN A 12" (MIN.) SEPARATION FROM ALL OTHER (EXISTING OR NEW) UNDERGROUND FACILITIES UNLESS NOTED OTHERWISE ON DRAWINGS
14. CONDUIT IN DUCTBANK(S) ARE TO BE STACKED NO MORE THAN FOUR (4) CONDUITS. IF MORE CONDUITS ARE NEEDED, THE WIDTH OF THE TRENCH IS TO BE INCREASED
15. WHERE PAVEMENT IS EXISTING AND REPAIR/REPLACEMENT IS REQUIRED, REPLACE IN KIND. ANTICIPATE THREE (3) INCHES OF ASPHALT ON CLSM SLURRY ENCASED DUCT SECTION. THIS SHALL BE INCIDENTAL TO THE COST OF RETROFIT DUCTBANK INSTALLATION.
16. ADJUST DEPTH TO 18"-24" TOTAL FOR CONDUIT INSTALLATION BETWEEN OR INTO L-867/L-868 BASE CAN.

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 18888
 Catherine Alcorn
 State of Arizona

DATE: 04.26.23	DESIGNED BY: SW	JCA	CA	FILE NAME: X
	DRAWN BY:		REVIEWED BY:	



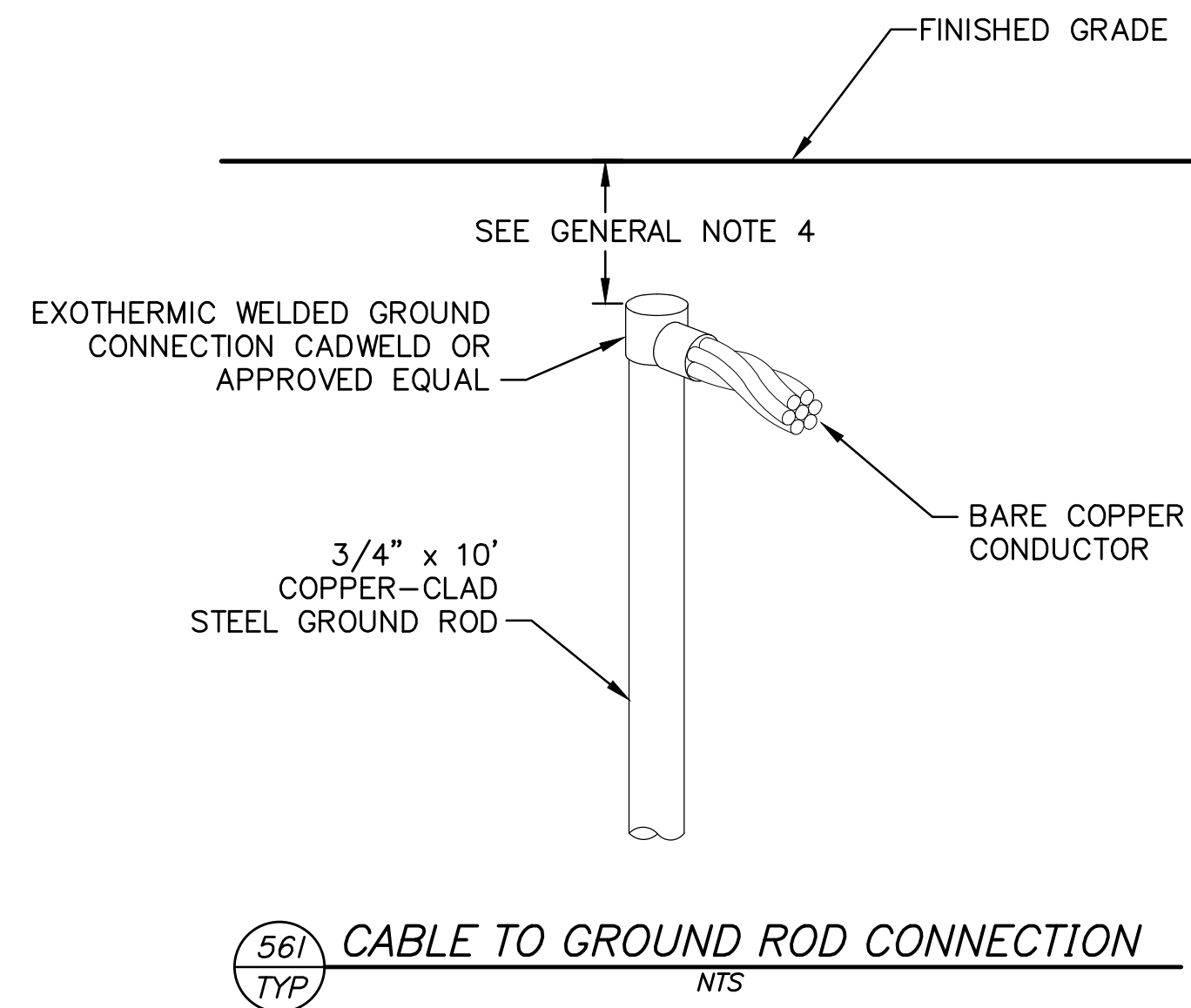
RUNWAY 12R-30L RECONSTRUCTION BASEBID (SCH 1) CONDUIT DUCTBANK DETAILS

CR engineers

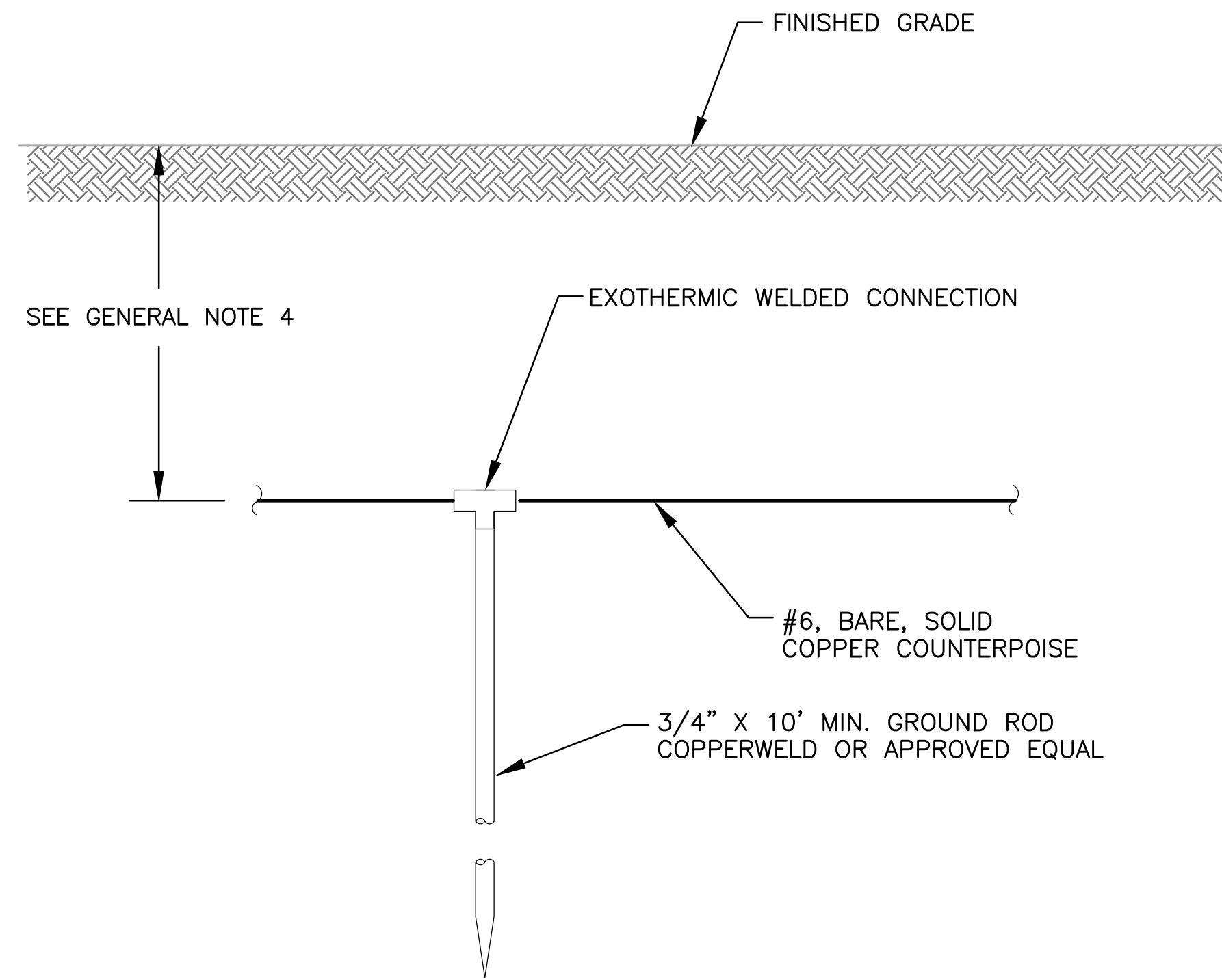
Call at least two full working days before you begin construction.

ARIZONA 811
 Arizona Statewide One-Call System, Inc.
 811 6-1-1 or 1-800-874-8111 (TDD) 602-955-1100
 In Maricopa County (602) 955-1100

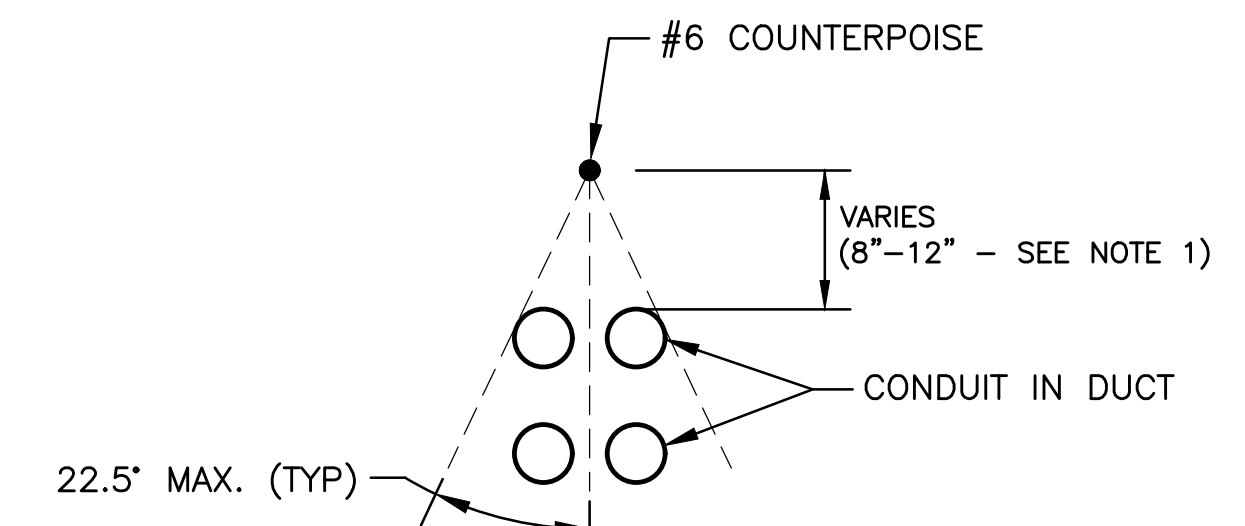
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561
TYP
CABLE TO GROUND ROD CONNECTION
NTS



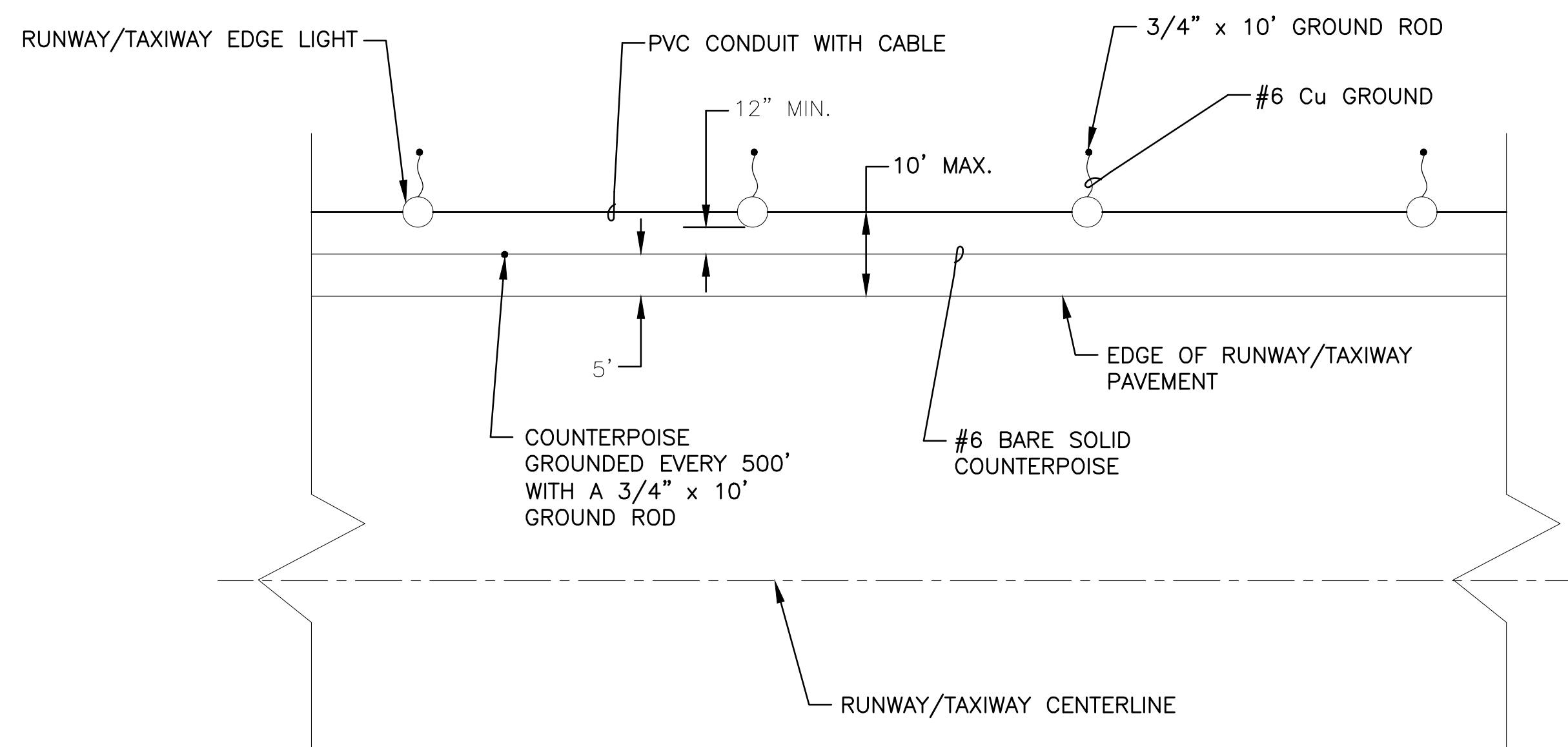
761
TYP
COUNTERPOISE INSTALLATION DETAIL
NTS



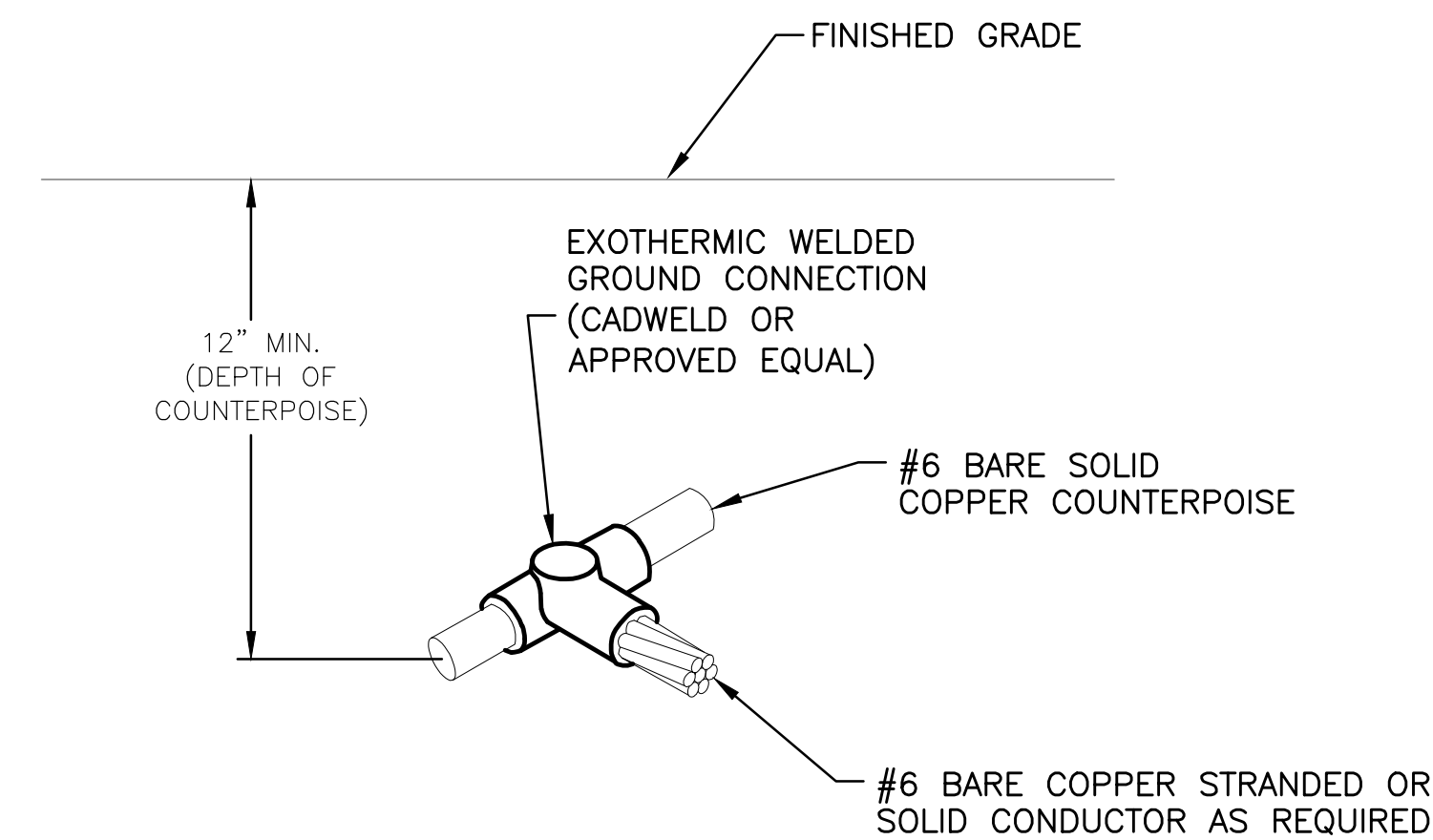
768
TYP
COUNTERPOISE COVERAGE
NTS

NOTE

1. ADJUST COUNTERPOISE OFFSET ABOVE CONDUIT/DUCT TO PROVIDE A CONE OF PROTECTION (MAX. OF 22.5' EACH SIDE OF VERTICAL) ABOVE ALL CONDUITS. THE MINIMUM COUNTERPOISE CONDUCTOR HEIGHT ABOVE THE RACEWAY TO BE PROTECTED SHALL BE PERMITTED TO BE ADJUSTED SUBJECT TO COORDINATION WITH THE AIRFIELD LIGHTING AND PAVEMENT DESIGNS.



763
TYP
COUNTERPOISE AND GROUND ROD CONNECTIONS DETAIL
NTS



766
TYP
COUNTERPOISE TO CABLE CONNECTION DETAIL
NTS

GENERAL NOTES

1. COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.
2. WHERE POSSIBLE, NEW COUNTERPOISE SYSTEM SHALL BE CONNECTED TO ANY EXISTING COUNTERPOISE SYSTEM ENCOUNTERED.
3. GROUNDING ELECTRODES INSTALLED AS PART OF THE COUNTERPOISE SYSTEM SHALL BE SPACED AT DISTANCES NO GREATER THAN 500 FT. (MAX). USE GROUND RODS TO TERMINATE THE COUNTERPOISE AT BOTH ENDS OF DUCT.
4. REFER TO CONDUIT/DUCT BANK DETAILS FOR DEPTHS.
5. REFER TO L-100 FOR ADDITIONAL COUNTERPOISE INFORMATION.

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
No. 18898
CATHERINE ALDRIN
Phoenix, AZ

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY 12R-30L RECONSTRUCTION BASEBID
(SCH I) GROUNDING DETAILS

CR engineers

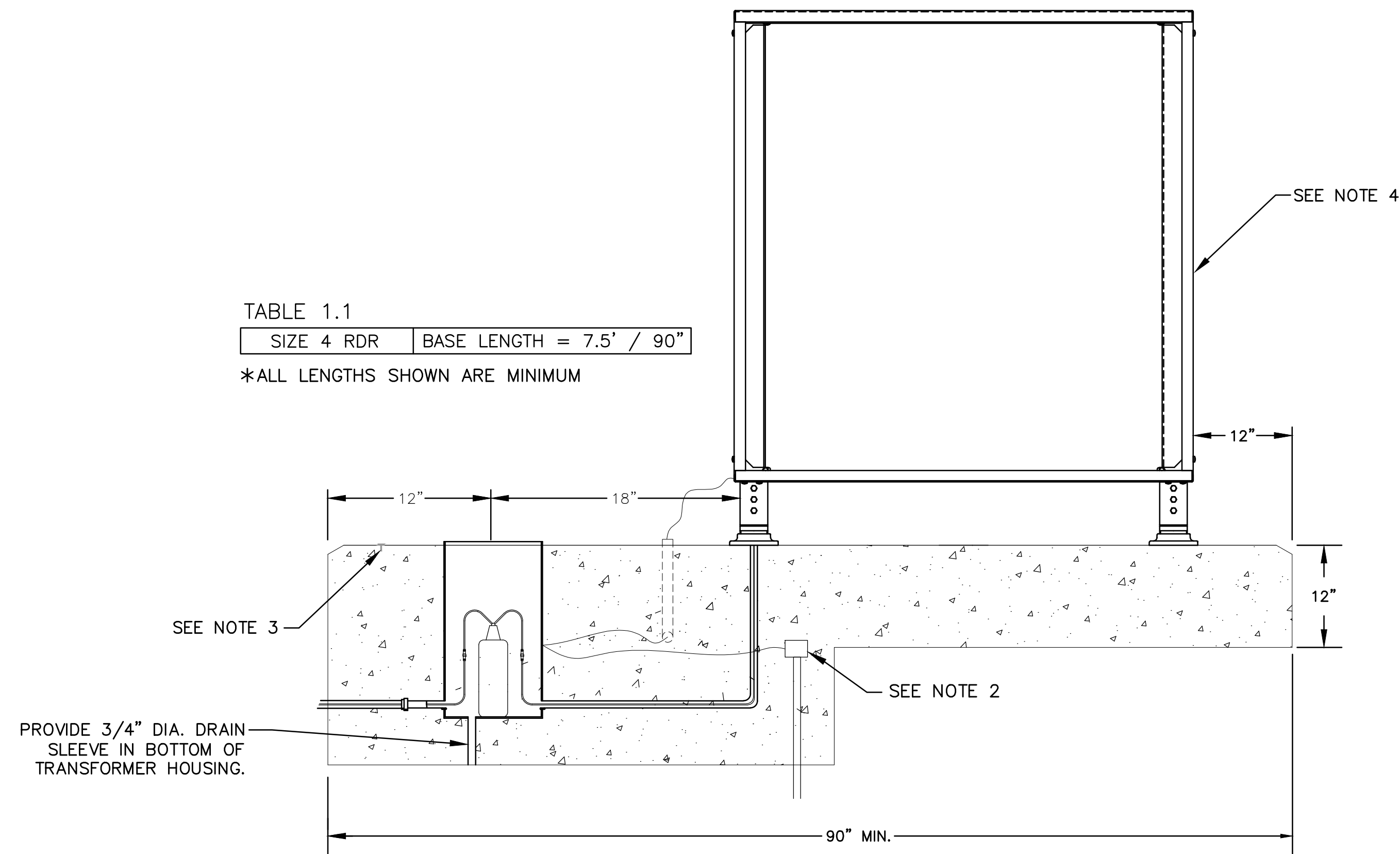
Call at least two full working days before you begin construction
ARIZONA 811
Dig Safe, Inc.
Dist 8-1-1 or 1-800-874-8111 (TDD-8348)
In Maricopa County: (602) 963-1100

FILE:G:\PROJECTS\220000\220026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\220026 E1-5.3 RDR AND CABLE SPLICE.dwg DATE:April 24, 2023 TIME:4:28 PM BY:julio andrino

TABLE 1.1

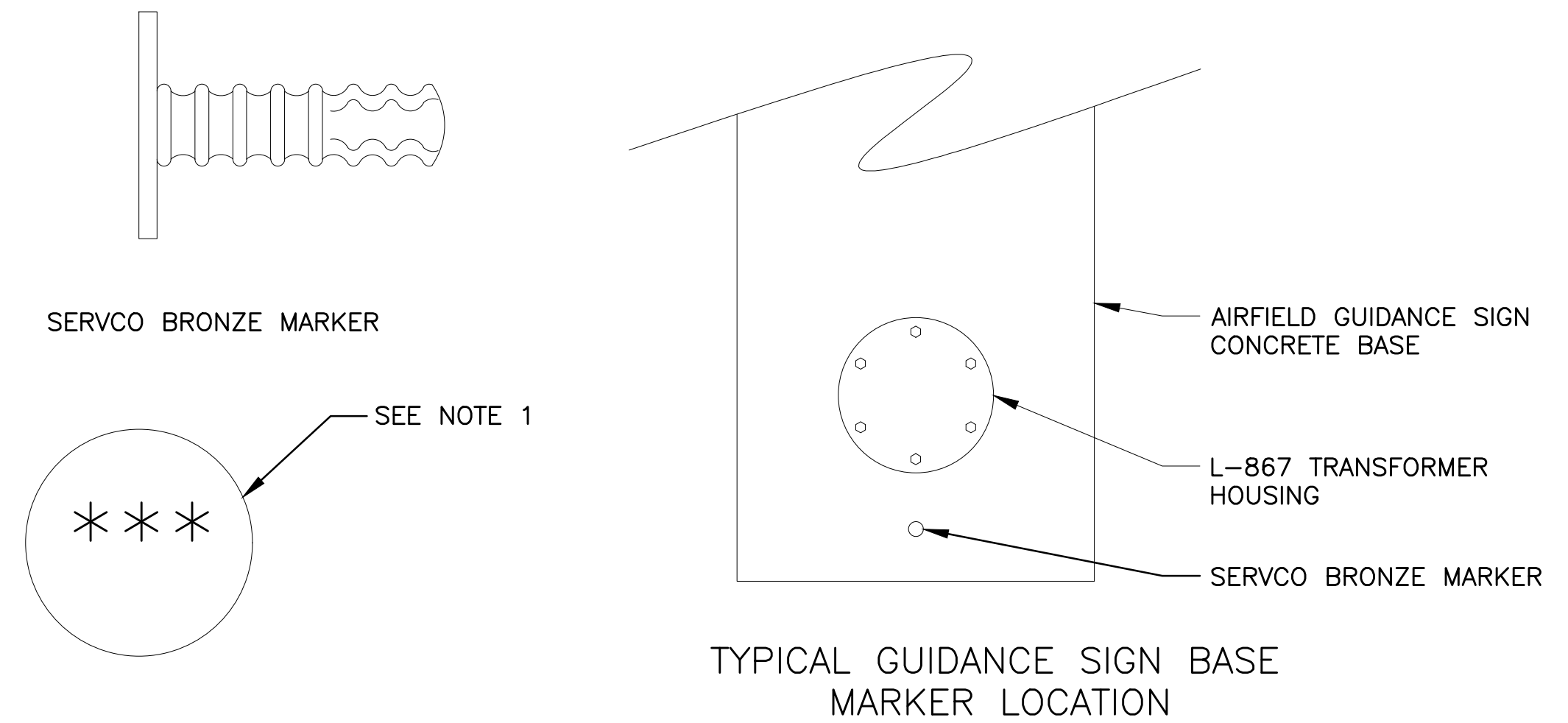
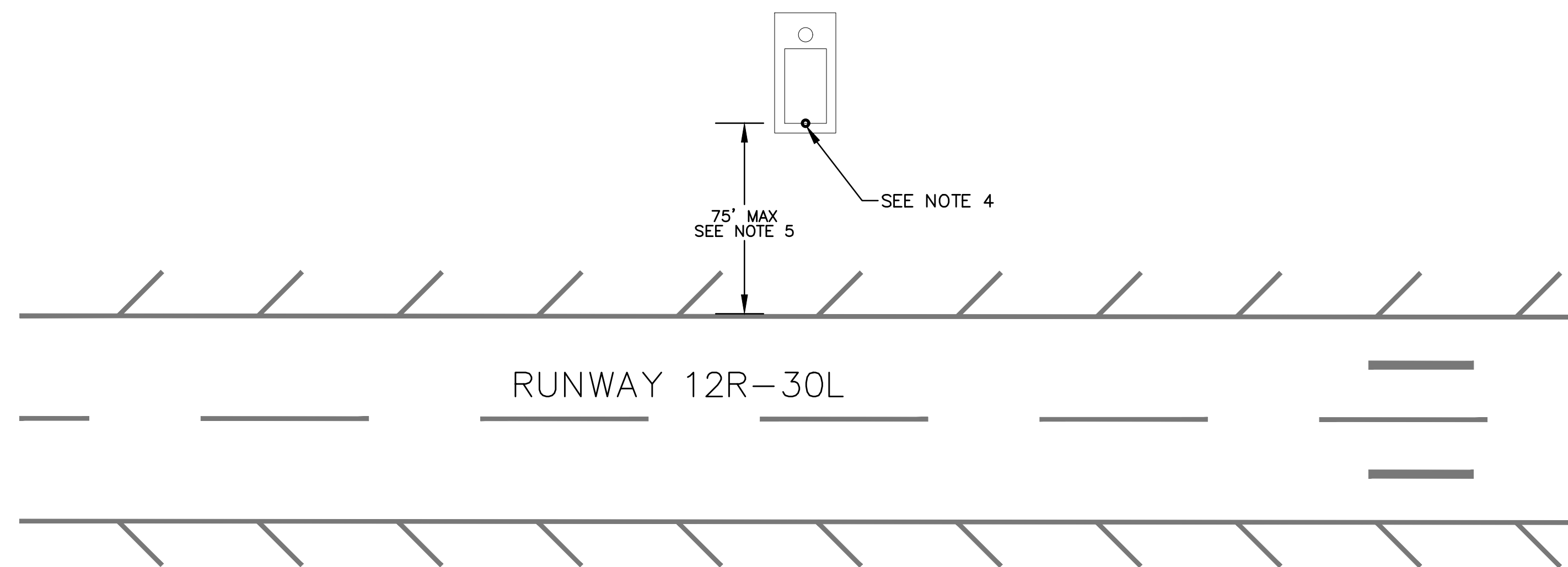
SIZE 4 RDR	BASE LENGTH = 7.5' / 90"
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*ALL LENGTHS SHOWN ARE MINIMUM



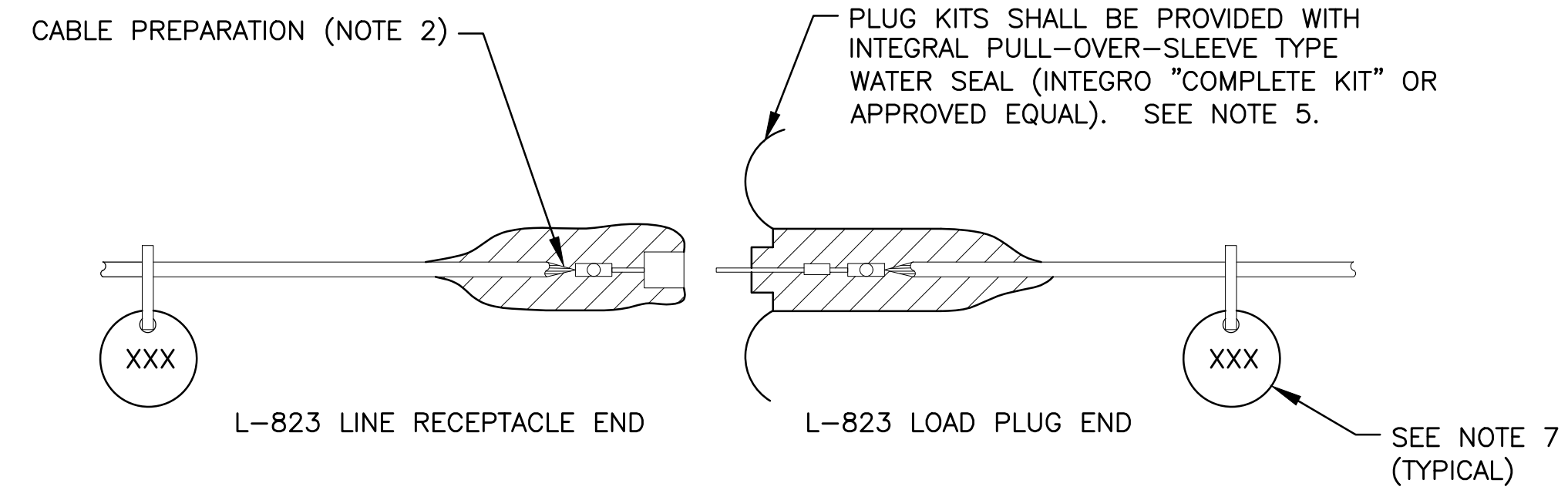
918 *918* **RUNWAY DISTANCE REMAINING SIGN – REMOTE MOUNT**
TYP NTS

- NOTES:
1. ALL NEW RUNWAY DISTANCE REMAINING SIGNS SHALL BE FURNISHED WITH AN EXTERNAL ON/OFF SWITCH.
 2. PROVIDE AND INSTALL NEW GROUND ROD WITH #6 COPPER GROUND AND CONNECT TO SIGN SAFETY GROUND.
 3. STAMP CIRCUIT IDENTIFICATION INTO MARKER WITH 1/2" CHARACTERS.
 4. STATION AND OFFSET POINTS TAKEN FROM EDGE OF SIGN CLOSEST TO RUNWAY. SIGNS TO BE INSTALLED WITH JUNCTION CAN ON THE OUTBOARD END OF THE SIGN BASE.
 5. PERPENDICULAR DISTANCE FROM DEFINED RUNWAY PAVEMENT EDGE TO THE NEAR (INBOARD) END OF THE SIGN IS 50' MINIMUM AND SHALL NOT EXCEED 75' MAXIMUM. CONTRACTOR TO MATCH EXISTING 74.5' TO 75' DISTANCES.



664 *664* **CIRCUIT IDENTIFICATION MARKER**
TYP NTS

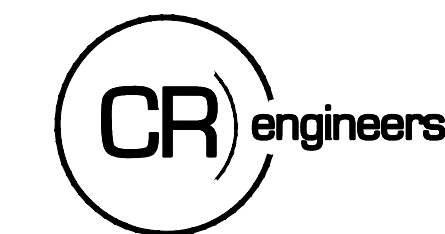
- NOTE:
1. STAMP CIRCUIT IDENTIFICATION INTO BASE MARKER WITH 1/2" CHARACTERS.
 2. PROVIDE CIRCUIT ID MARKERS AT NEW SIGN BASES AND JUNCTION CANS.



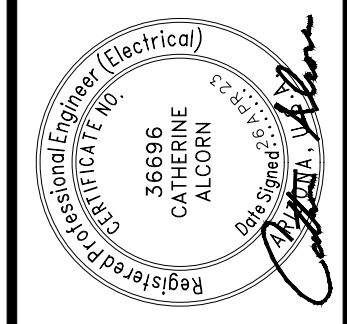
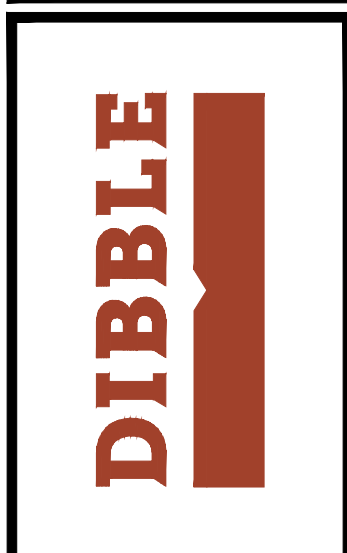
NOTES

1. PROVIDE MALE AND FEMALE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR IN EACH BASE, HANDHOLE, OR MANHOLE TO ALLOW ISOLATION OF HOMERUN CIRCUIT.
2. ALL CABLE ENDS SHALL BE PREPARED WITH THE USE OF A TAPERING TOOL SPECIFICALLY DESIGNED FOR USE WITH L-824 CABLES.
3. PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED RATCHETING TYPE CRIMPING TOOL.
4. AT THE POINT OF CONNECTION WITH THE EXISTING FIELD CIRCUITS, INSTALL NEW L-823 PLUGS ON BOTH THE NEW AND EXISTING CABLES. VERIFY INSULATION TYPES OF BOTH NEW AND EXISTING CABLES AND COORDINATE WITH TERMINATION KITS TO ASSURE PROPER AND WATERPROOF FIT.
5. INSTALL SCOTCH 33+ VINYL ELECTRICAL TAPE ON CONNECTION AFTER PULLING SLEEVE OVER COMPLETE KIT.
6. THERE SHALL BE NO SPLICES BETWEEN LIGHTS, ONLY IN BASES OR HANDHOLES.
7. PROVIDE AND INSTALL NON-CONDUCTIVE CIRCUIT IDENTIFICATION TAGS ATTACHED TO EACH SIDE OF ALL CONNECTOR KITS.
8. ON THE CABLES FOR THE RUNWAY CIRCUIT, TAPE FROM THE BACK END OF THE CONNECTOR KIT ONTO CABLE FOR 3" EACH, RED OR WHITE PHASE TAPE FOR FASTER IDENTIFICATION AND MATCH EXISTING MANHOLE LAYOUTS.
9. ON THE CABLES FOR THE TAXIWAY AND SIGNAGE CIRCUITS, TAPE FROM THE BACK END OF THE CONNECTOR KIT ONTO CABLE FOR 3" EACH, BLUE THEN WHITE PHASE TAPE FOR SIGNS, BLUE ONLY PHASE TAPE FOR TAXIWAY EDGE LIGHTS, FOR FASTER IDENTIFICATION AND MATCH EXISTING MANHOLE LAYOUTS.

925 *925* **TYPICAL 5KV CABLE SPLICE**
TYP NTS



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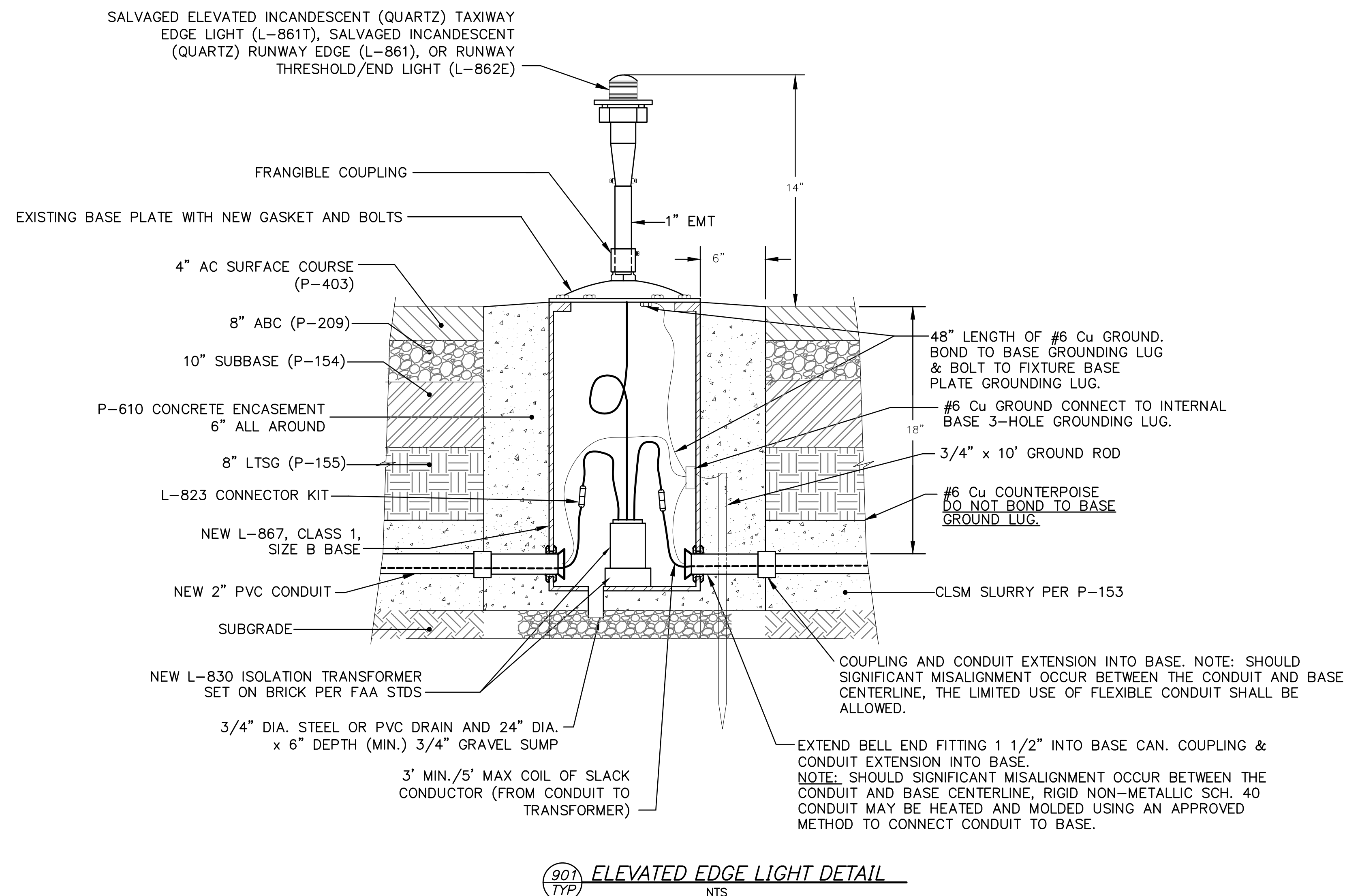


DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID
(SCH I) RUNWAY DISTANCE REMAINING SIGN CONCRETE BASE AND 5KV CABLE SPLICE DETAILS

FILE:G:\PROJECTS\22000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-5.4 ELEVATED EDGE.DWG DATE:April 24, 2023 TIME:4:34 PM BY:julio_omdrino



- NOTES**
1. NEW L-867 BASES SHOWN. REINSTALL SALVAGED FIXTURES ON NEW AND EXISTING BASES WITH NEW GASKETS AND BOLTS.
 2. CUTOVER TO REPLACE EXISTING L-861 INCANDESCENT RUNWAY LIGHTS WITH NEW LED FIXTURES ARE ASSOCIATED WITH ADDITIVE ALTERNATE 2 WORK ONLY.

REV	DATE	DESCRIPTION

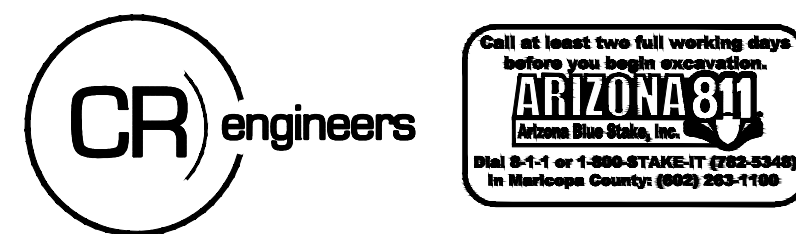
DIBBLE

Professional Engineer (Electrical)
No. 25696
CATHERINE ALDRIN
Phoenix, AZ

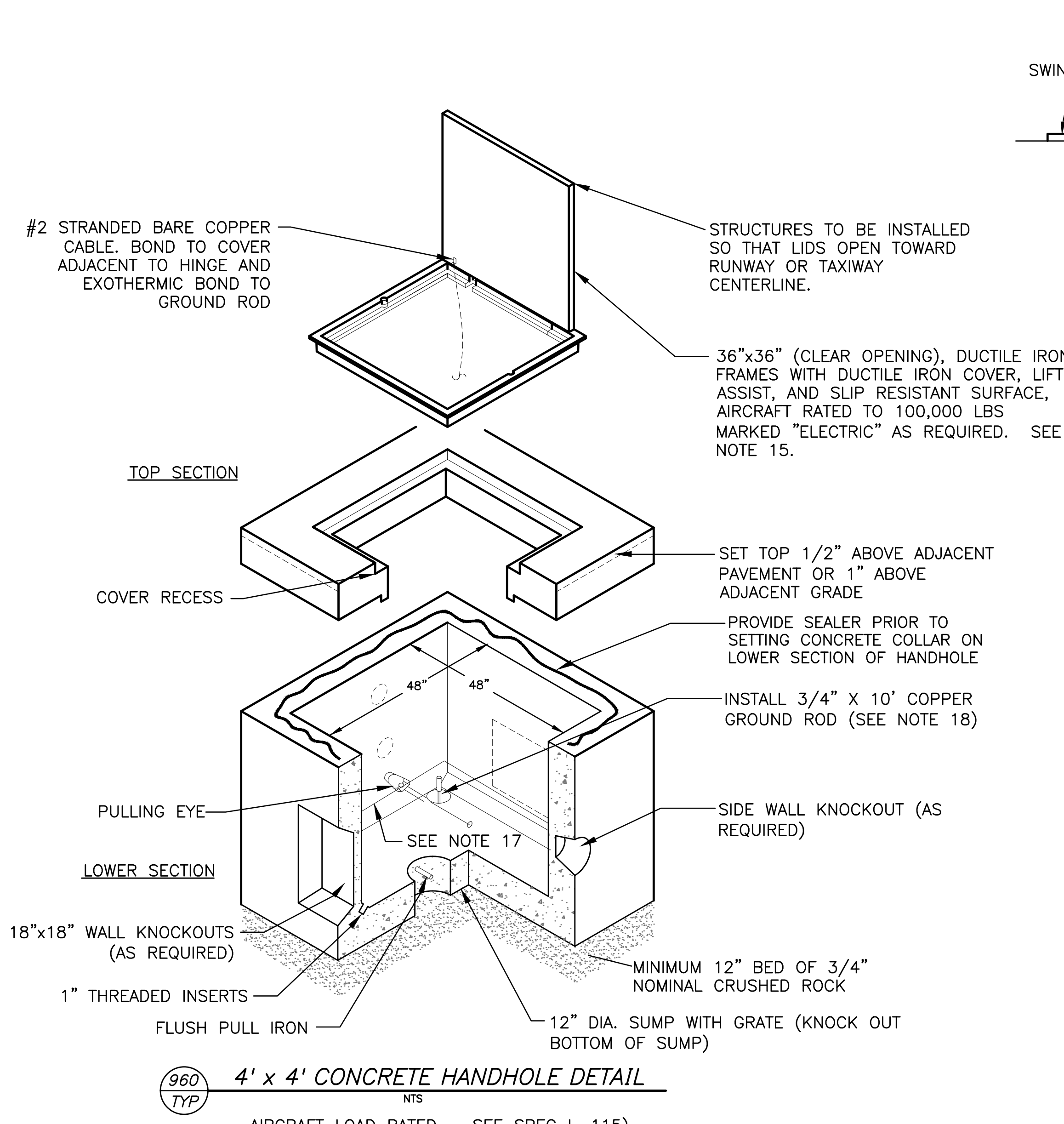
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DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
BASEBID
(SCH I) ELEVATED EDGE LIGHT
FIXTURE DETAILS**



FILE G:\PROJECTS\220026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-5.5 4x4 HANDHOLE.dwg DATE: April 26, 2023 TIME: 2:37 PM BY: julio andrino



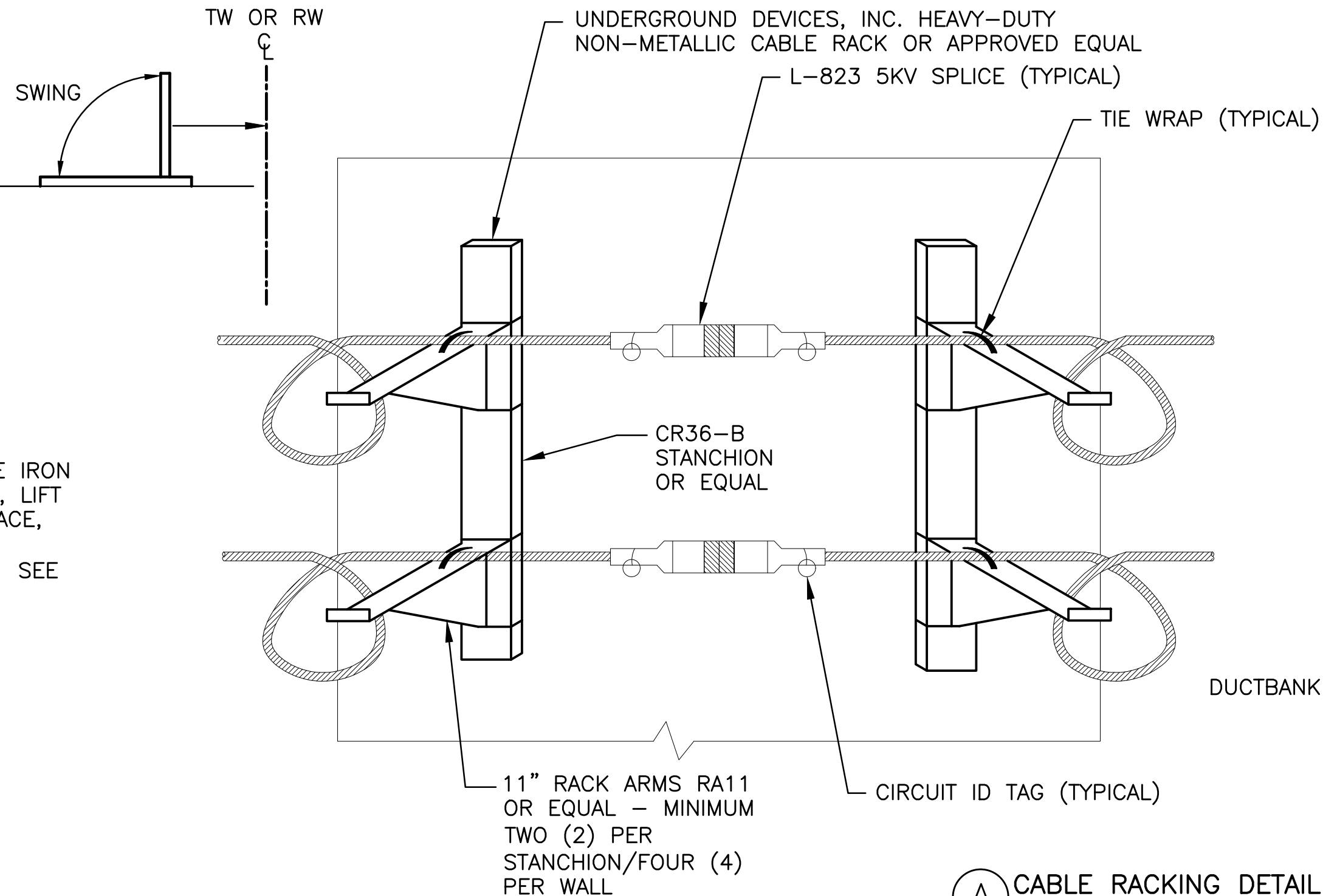
960 TYP 4' x 4' CONCRETE HANDHOLE DETAIL NTS AIRCRAFT LOAD RATED - SEE SPEC L-115)

GENERAL HANDHOLE INSTALLATION NOTES

- PRE-CAST AIRCRAFT-RATED CONCRETE HANDHOLE AND DUCTILE IRON COVER SHALL BE DESIGNED FOR A 30,000 LBS CONCENTRATED WHEEL LOAD OVER A 12" X 24" AREA, OLD CASTLE PRE-CAST CONCRETE PRODUCTS OR APPROVED EQUAL.
- ALL CABLE THROUGH HANDHOLE SHALL HAVE SUFFICIENT SLACK SO CABLE AND CONNECTOR CAN BE BROUGHT TO SURFACE FOR SPlicing, PROVIDE MINIMUM 4 FEET OF SLACK FOR EACH CABLE WITH SPlice KITS ENTERING HANDHOLE. PASS THROUGH CONDUCTORS WITH NO SPlices DO NOT REQUIRE 4 FEET OF SLACK AND SHOULD BE INSTALLED AROUND CABLE RACK IN A NEAT MANNER IN 1' DIAMETER LOOPS.
- EACH CABLE SHALL BE IDENTIFIED WITH CIRCUIT TAPE AND WIRE TAGS GIVING CIRCUIT IDENTIFICATION (BRADY #PWC-PK-6 OR APPROVED EQUAL)
- RACK AND SECURE ALL CABLES.
- TAG LIGHTING CIRCUIT CABLES IN ALL CONCRETE STRUCTURES (TWO REQUIRED PER CABLE).
- AT GROUND ROD OPENING, DRIVE GROUND ROD INTO EARTH LEAVING SIX (6) INCHES EXTENDING ABOVE FLOOR. SEAL HOLE WATERTIGHT WITH PORTLAND CEMENT GROUT AROUND ROD. DO NOT INSTALL THROUGH DRAIN SUMP.
- SUBMIT LAYOUT OF EACH HANDHOLE FOR APPROVAL BY ENGINEER, INDICATING ELECTRICAL DUCT, CONDUIT, AND SPARE STUBOUTS.
- PROVIDE HANDHOLE WITH WATERTIGHT SPARE DUCT SLOTS IN EACH EMPTY FACE.
- EXCAVATION AND BACKFILL NECESSARY FOR THE CONSTRUCTION OF THE HANDHOLE SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.
- PROVIDE END BELLS FINISHED FLUSH WITH INTERIOR WALLS AND NON-SHRINK GROUT AROUND EACH CONDUIT ENTERING THE HANDHOLE VIA A CONDUIT STUBOUT.
- COVER SHALL BE 1" MAXIMUM ABOVE FINISHED GRADE. AREA SURROUNDING HANDHOLE SHALL BE GRADED 10' IN ALL DIRECTIONS, SUCH TO PREVENT WATER AND DIRT ACCUMULATION ACROSS THE TOP OF THE COVER AND ALLOW WATER TO DRAIN AWAY FROM THE HANDHOLE - INCIDENTAL (NPI).
- BOND AND GROUND COVER AND FRAME TO ROD USING BRAIDED COPPER GROUND STRAP EQUIVALENT AMPACITY TO #2 AWG STRANDED COPPER WIRE.

GENERAL HANDHOLE INSTALLATION NOTES CONTINUED.....

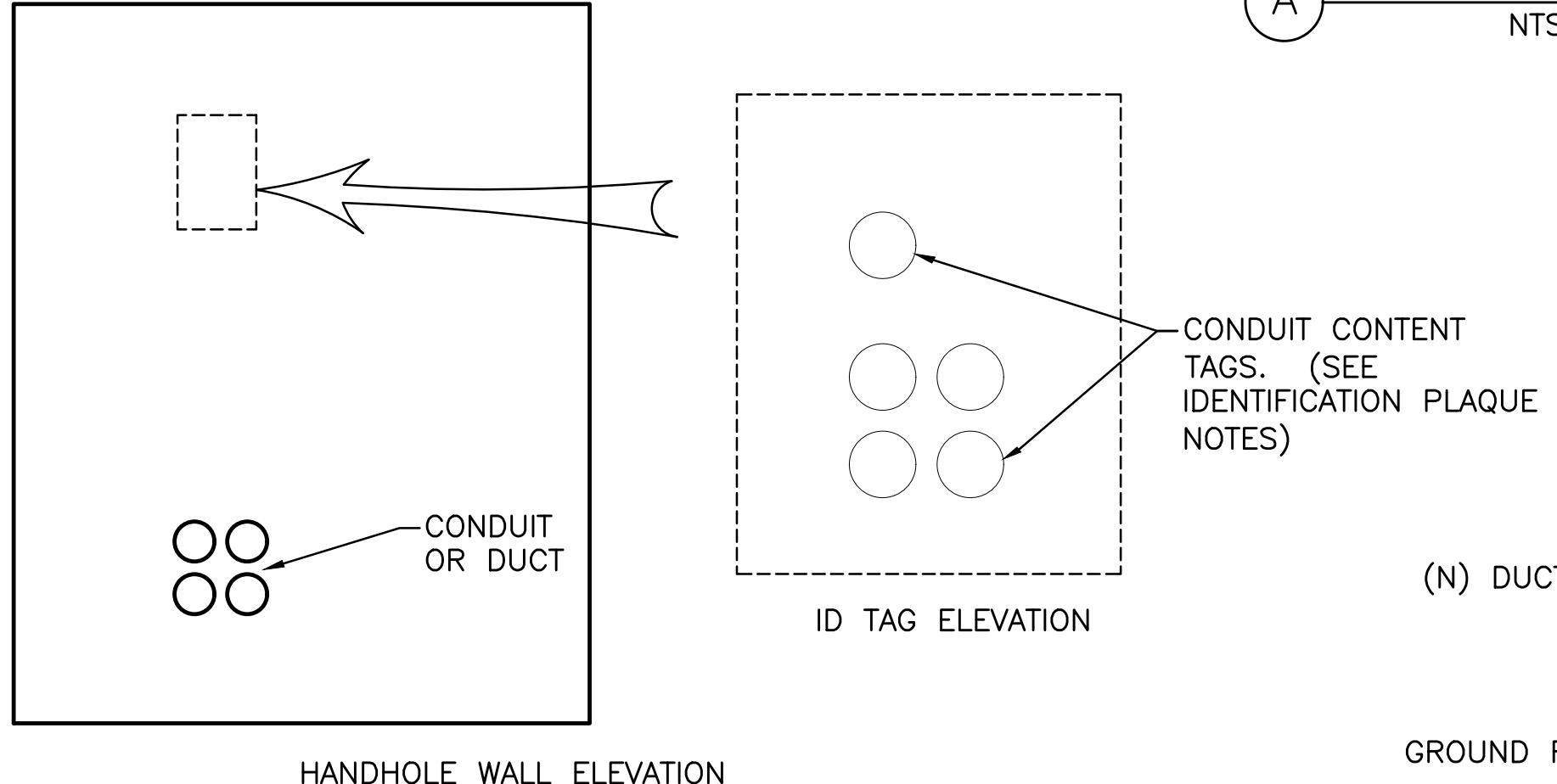
- GRADE THE AREA AROUND THE HANDHOLE, 10' IN ALL DIRECTIONS, SUCH TO PREVENT WATER AND DIRT ACCUMULATION ACROSS THE TOP OF THE COVER AND ALLOW WATER TO DRAIN AWAY FROM THE HANDHOLE - INCIDENTAL (NPI).
- INSTALL PULLING IRONS IN EACH FACE.
- PROVIDE MANUFACTURER DRAWINGS AND STRUCTURAL CALCULATIONS FOR ALL CONCRETE ELEMENTS OF HANDHOLES AND FABRICATED AIRCRAFT-RATED COVERS.
- CONNECT COUNTERPOISE TO GROUND ROD IN HANDHOLE. ROUTE AROUND HANDHOLES.
- A GROUND BUS OF 4/0 BARE COPPER SHALL BE EXOTHERMICALLY BONDED TO THE GROUND ROD AND LOOP THE CONCRETE STRUCTURE WALLS. THE GROUND BUS SHALL BE A MINIMUM OF ONE (1) FOOT (30 CM) ABOVE THE FLOOR OF THE STRUCTURE AND SEPARATE FROM OTHER CABLES. NO. 2 AMERICAN WIRE GAUGE (AWG) BARE COPPER PIG TAILS SHALL BOND THE GROUNDING BUS TO ALL CABLE TRAYS AND OTHER METAL HARDWARE WITHIN THE CONCRETE STRUCTURE. CONNECTIONS TO THE GROUNDING BUS SHALL BE EXOTHERMIC. IF AN EXOTHERMIC WELD IS NOT POSSIBLE, CONNECTION TO THE GROUNDING BUS SHALL BE MADE BY USING CONNECTOR APPROVED FOR DIRECT BURIAL IN SOIL OR CONCRETE PER UL 467. HARD CONNECTIONS MAY BE MECHANICAL USING A LUG DESIGNED FOR THAT PURPOSE.
- A GROUND ROD SHALL BE INSTALLED IN THE FLOOR OF ALL CONCRETE STRUCTURE SO THAT THE TOP OF ROD EXTENDS SIX (6) INCHES (150MM) ABOVE THE FLOOR. THE GROUND ROD SHALL BE INSTALLED WITHIN ONE (1) FOOT (30 CM) OF A CORNER OF THE CONCRETE STRUCTURE. GROUND RODS SHALL BE INSTALLED PRIOR TO CASTING THE BOTTOM SLAB. WHERE THE SOIL CONDITION DOES NOT PERMIT DRIVING THE GROUND ROD INTO THE EARTH WITHOUT DAMAGE TO THE GROUND ROD, THE CONTRACTOR SHALL DRILL A FOUR (4) INCH (100 MM) DIAMETER HOLE INTO THE EARTH TO RECEIVE THE GROUND ROD. THE HOLE AROUND THE GROUND ROD SHALL BE FILLED THROUGHOUT ITS LENGTH, BELOW SLAB, WITH PORTLAND CEMENT GROUT. GROUND RODS SHALL BE INSTALLED IN PRECAST BOTTOM SLAB OF STRUCTURES BY DRILLING A HOLE THROUGH BOTTOM SLAB AND INSTALLING THE GROUND ROD. BOTTOM SLAB PENETRATION SHALL BE SEALED WATERTIGHT WITH PORTLAND CEMENT GROUT AROUND THE GROUND ROD.



A CABLE RACKING DETAIL NTS

CABLE RACKING NOTES

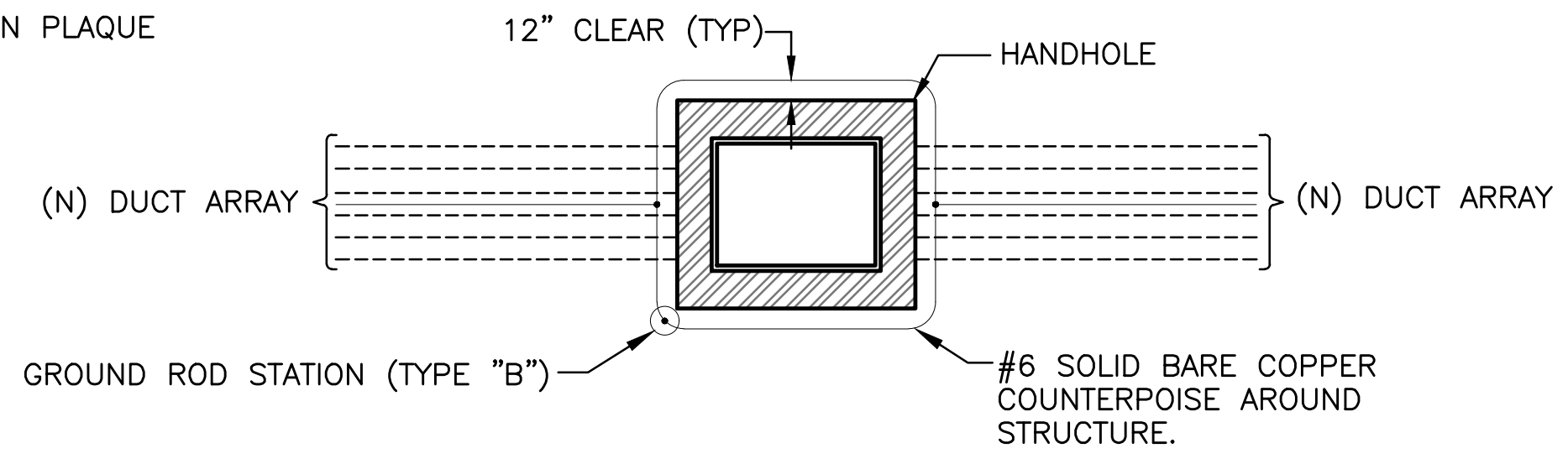
- PROVIDE NON-METALLIC, NON-CONDUCTIVE, RACK ARMS, BOLTED TO CHANNELS INSET IN HANDHOLE WALLS. PROVIDE MIN. OF TWO (2) ARMS FOR EVERY INTERIOR WALL.
- CABLE RACKING SHALL BE LIMITED TO THE UPPER HALF OF THE HANDHOLE.
- PROVIDE TWO (2) CIRCUIT TAGS FOR EVERY L-823 CABLE SPLICE IN HH WITHIN 24" OF SPLICE.
- PROVIDE A MIN. OF FOUR FEET OF CABLE BETWEEN ENTRY POINT AND L-823 SPLICE.
- RACK CABLES ON SIDE(S) OF ENTRY/EXIT CONDUITS.
 - DUCT/CONDUIT ARRAY SHALL ENTER HANDHOLE IN LOWER HALF OF THE HANDHOLE.
 - PROVIDE BELL END FOR EVERY CONDUIT IN THE ARRAY.
 - GROUT AROUND/BETWEEN CONDUITS AND CONCRETE WALL.



B CABLE ROUTING IDENTIFICATION TAG DETAIL NTS

IDENTIFICATION PLAQUE NOTES:

- AFFIX ENGRAVED PHENOLIC TAGS TO THE WALL WITH SILICONE SEALANT ABOVE THE DUCT OR CONDUIT ENTRY IN A WAY THAT MIMICS THE ARRAY. WIRE BRUSH CONCRETE WALL TO ASSURE ADHESION.
- THE TAGS SHALL BE APPROX 1 1/2" DIA. AND SHALL HAVE MINIMUM 1/4" LETTERING.



C HANDHOLE COUNTERPOISE DETAIL NTS

NOTES:

ALL COUNTERPOISE WIRES FOR DUCTBANKS AND CONDUITS TO BE EXOTHERMICALLY WELDED TO COUNTERPOISE LOOP AROUND STRUCTURE

REV	DATE	DESCRIPTION

DIBBLE

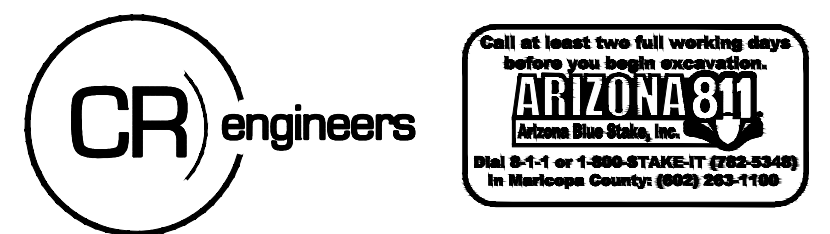
Professional Engineer (Electrical)
 License No. 15896
 CATHERINE ALDRON
 Board Expires 12/31/2024

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

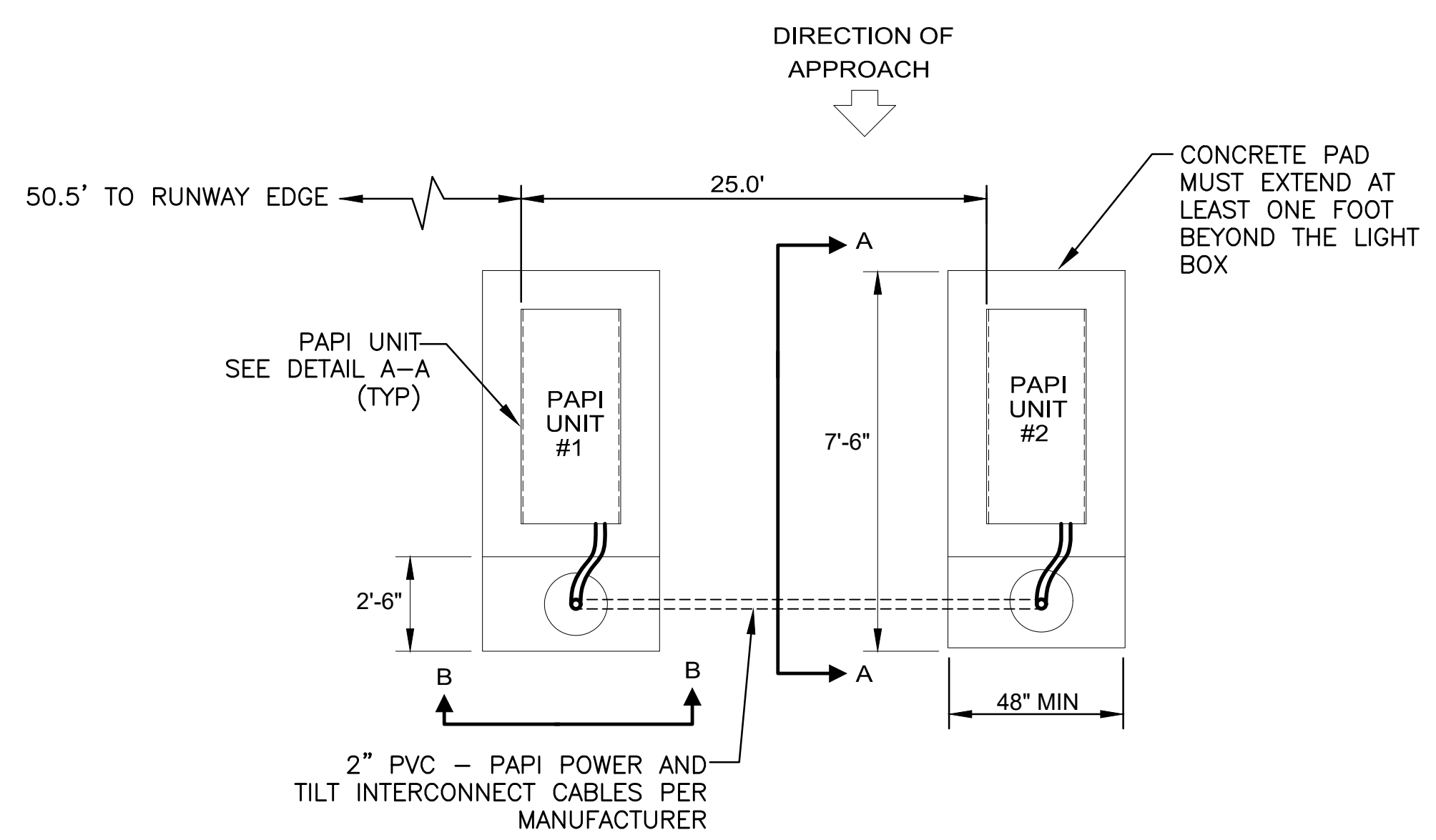
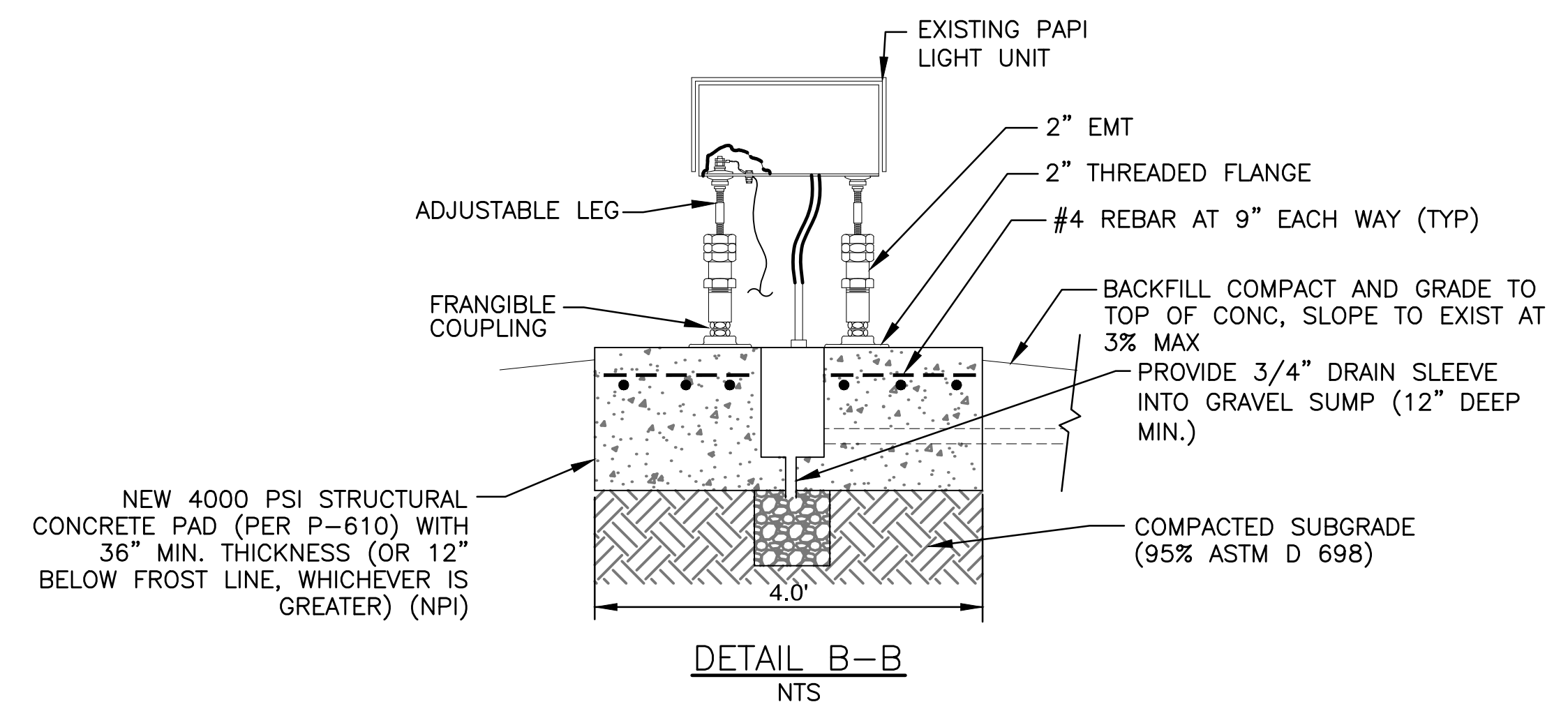
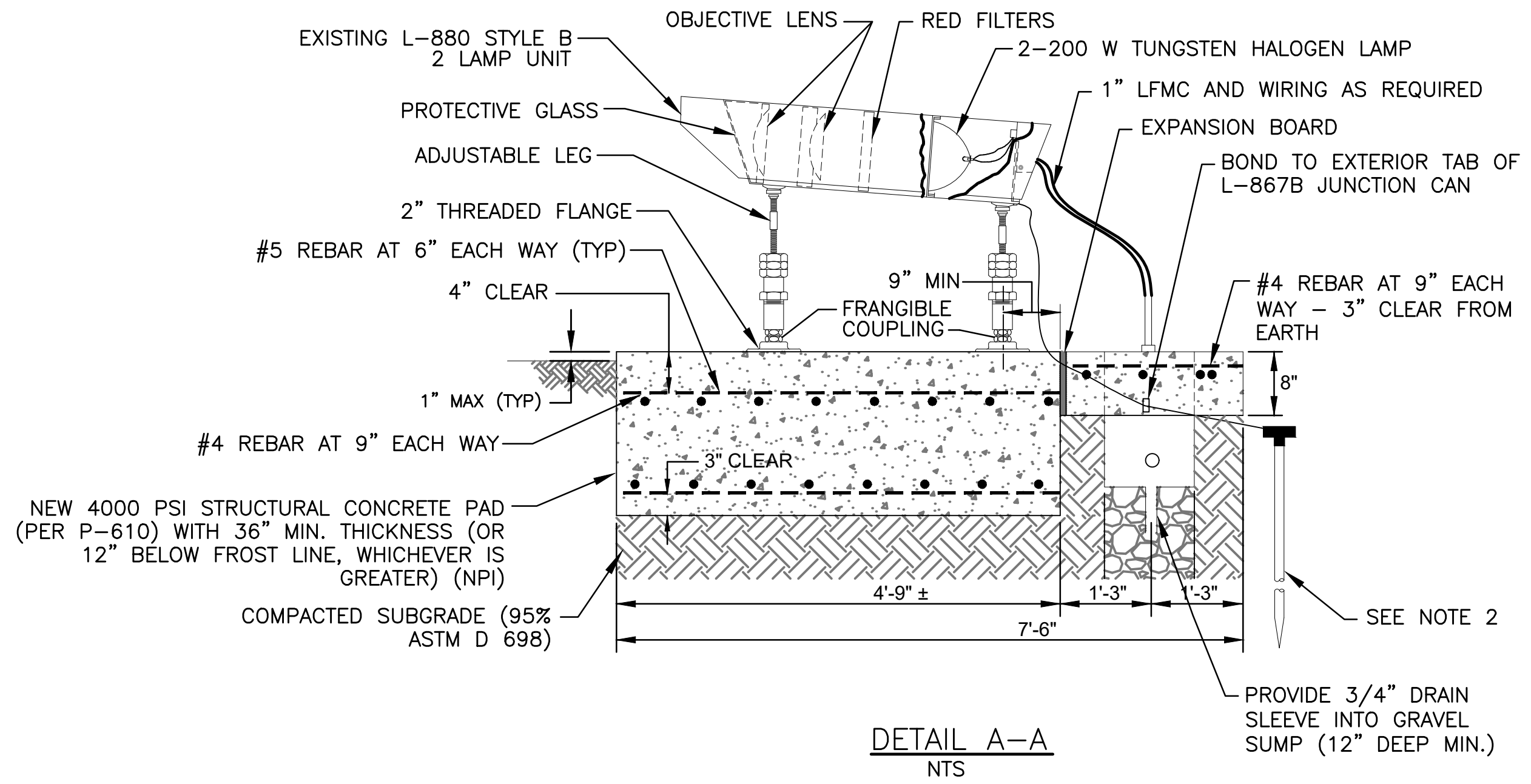


RUNWAY 12R-30L RECONSTRUCTION BASEBID

(SCH I) 4'x4' HANDHOLE DETAILS



FILE:Q:\PROJECTS\220000\220026_PINGA_Runway_12R-30L_Reconstruction\CAD\SHEETS\BASEBID\22026_E1-5.7_PAPI_INSTALLATION_DETAILS.dwg DATE:April 18, 2023 TIME:2:52 PM BY:jeff_weldman



- NOTES:
1. TYPICAL FOR PAPIs ON RUNWAY 12R
 2. PROVIDE GROUNDING (#6 CU) CONNECTION AND 3/4" x 10' GROUND ROD AT EACH PAPI UNIT.
 3. PROVIDE NEW SEALTITE AND FITTINGS WITH NEW WIRING AND ISOLATION TRANSFORMERS.
 4. PROVIDE NEW MOUNTING HARDWARE AND EXTENDED LEGS AS REQUIRED.
 5. SEE FAA AC 150/5340-30J FOR MORE INFORMATION.

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 13888
 CATHARINE ALDOREN
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID
(SCH 1) PAPI INSTALLATION DETAILS

CR engineers

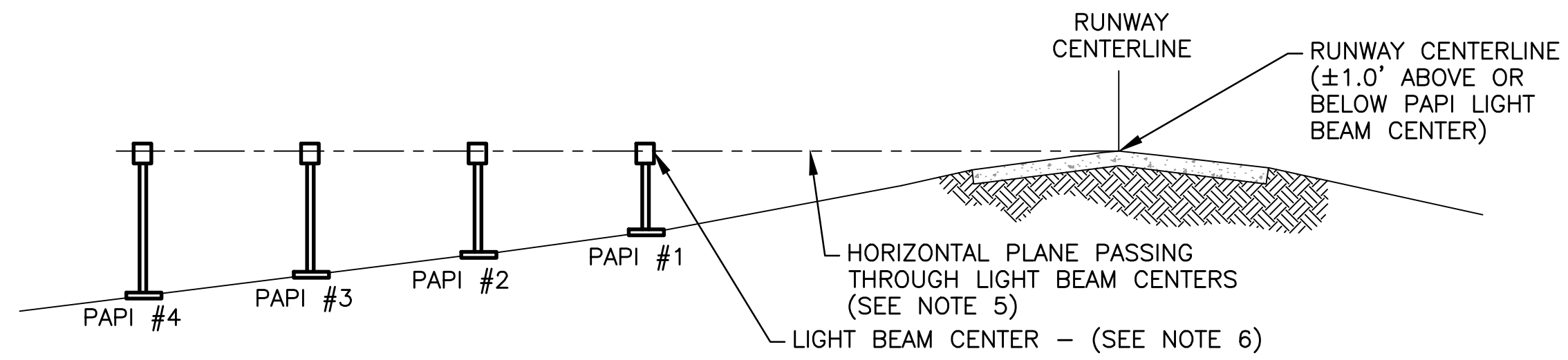
Call at least two full working days before you begin construction.
ARIZONA 811
 Arizona Statewide Utility Location System
 Dial 8-1-1 or 1-800-874-8111 (TDD-8348)
 In Maricopa County (602) 253-1100

FILE Q:\PROJECTS\220000\220026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-5.8 PAPI CRITERIA SCHEDULES.dwg DATE: April 18, 2023 TIME: 2:57 PM BY: jeff weidman

RW	RW threshold CL elev (ft)	TCH (ft)	Distance from Threshold (ft)	STA	RW CL Elev @ RRP	Light Center elev (ft) (0.4' below finished grade)	Top of conc base elev (1" above finished grade)				Glide path angle	Aiming angle			
							LHA #1	LHA #2	LHA #3	LHA #4		LHA #1	LHA #2	LHA #3	LHA #4
12R	1341.20	60.0	1093.07	110+93.07	1344.26	1343.86	1342.61 (H=1.25)	1342.16 (H=1.70)	1341.71 (H=2.15)	1341.27 (H=2.59)	3.00°	3.50°	3.17°	2.83°	2.50°

NOTE: THE PAPI LIGHT CENTER ELEVATIONS NOTED ABOVE SHALL BE VERIFIED BY SURVEY PROVIDED BY THE OWNER AND VERIFIED BY CONTRACTOR. THE LIGHT CENTER ELEVATIONS SHALL BE 12" ± ABOVE RUNWAY CENTERLINE ELEVATION PERPENDICULAR TO THE LOCATIONS.

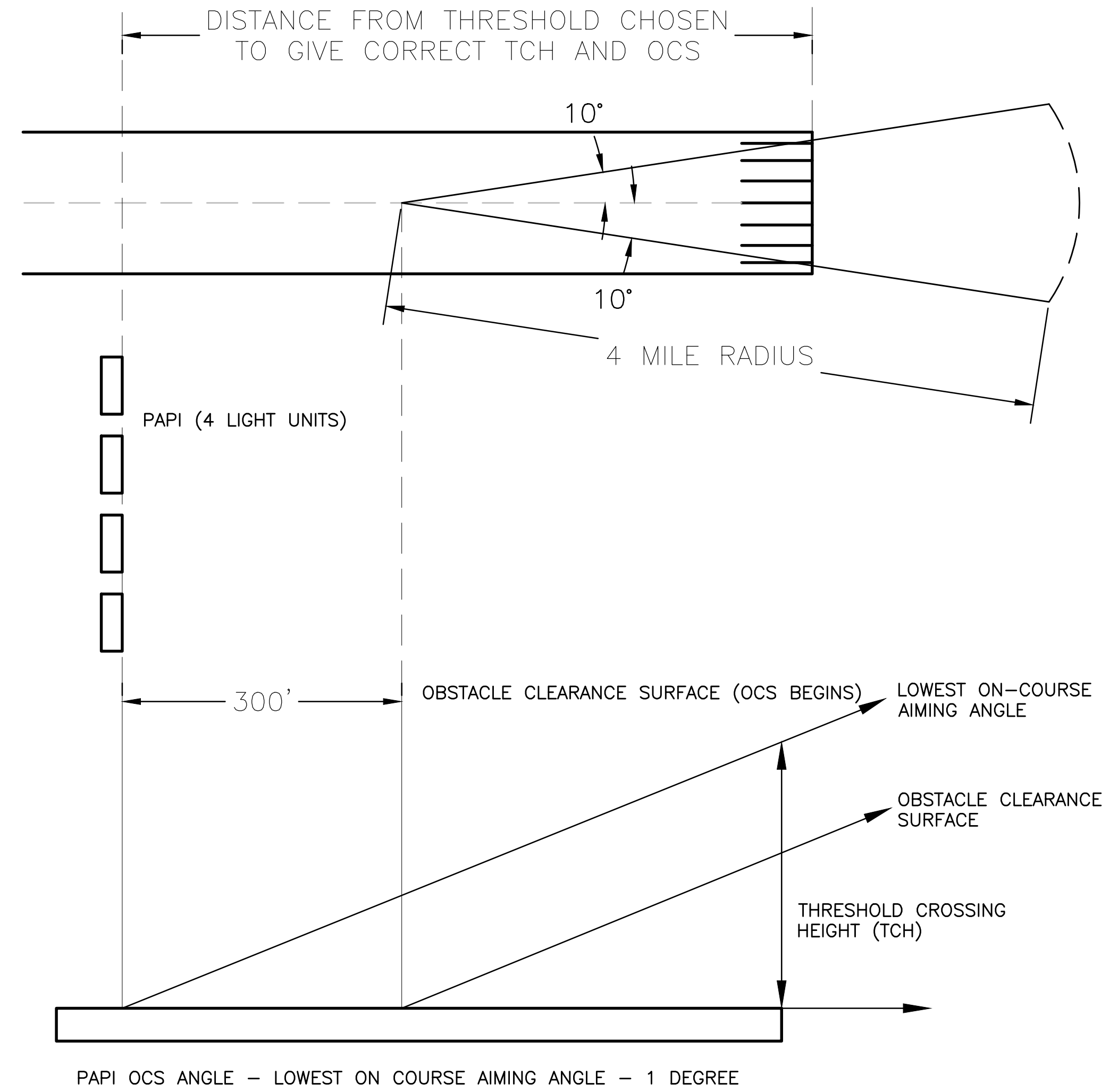
* FOUNDATIONS SET 0.1 ABOVE EXISTING GROUND AND GRADED EARTH TO DRAIN AWAY FROM FOUNDATION



A
TYP PAPI SECTION
NTS

NOTES:

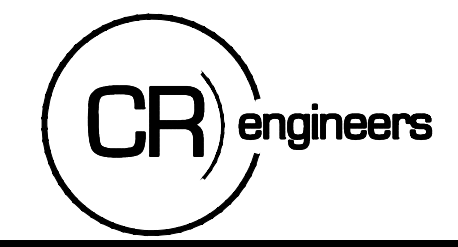
- CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS. THE AIRPORT, ENGINEER, AND CONTRACTOR SHALL PERFORM A SITE WALK THRU OF ALL SURVEYED LOCATIONS LISTED PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- OWNER'S SURVEYOR SHALL PERFORM AND SUBMIT COMPLETE FIELD SURVEYS/RECORD DRAWINGS FOR ALL EQUIPMENT PRIOR TO FINAL PAYMENT.
- THE CITY WILL COORDINATE WITH THE FAA FOR FLIGHT TESTING AND CERTIFICATION OF THE NEW EQUIPMENT FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL INSTALL ON INDIVIDUAL LIGHT HOUSING ASSEMBLIES A ONE-INCH WIDE RIGID, LAMINATED PLASTIC/METAL TAG WITH 3/8-INCH ENGRAVED LETTERING, WHICH INDICATES THE VERTICAL AIMING ANGLES. THESE TAGS SHALL BE ATTACHED IN A CONSPICUOUS PLACE AS DESIGNATED BY THE OWNER.
- LIGHTING CENTERS OF ALL LIGHT UNITS MUST BE WITHIN ± 1 INCH OF A HORIZONTAL PLANE.
- THE PAPI HORIZONTAL PLANE MUST BE WITHIN 1 FOOT OF THE ELEVATION OF THE RUNWAY CENTERLINE AT THE INTERCEPT POINT OF THE VISUAL GLIDE PATH WITH THE RUNWAY.



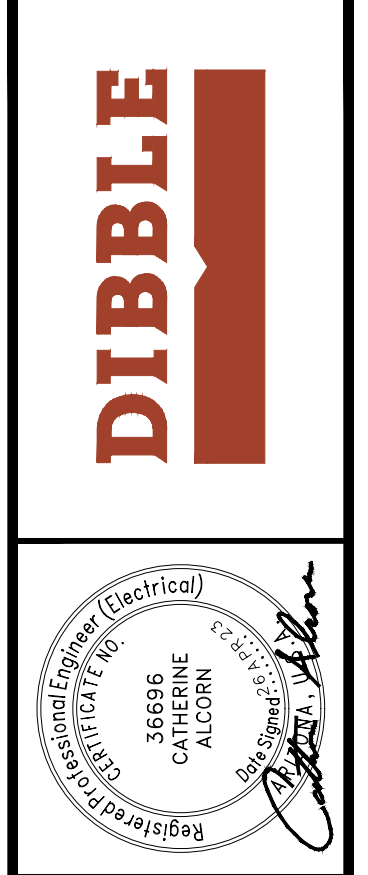
PAPI OBSTACLE CLEARANCE SURFACE DETAIL
NTS

NOTES:

- THE VISUAL GLIDE PATH ANGLE IS THE CENTER OF THE ON-COURSE ZONE, AND IS A NOMINAL 3 DEGREES WHEN MEASURED FROM THE HORIZONTAL SURFACE OF THE RUNWAY.
 - FOR NON-JET RUNWAYS, THE GLIDE PATH MAY BE RAISED TO 4 DEGREES MAXIMUM TO PROVIDE OBSTACLE CLEARANCE.
 - IF THE PAPI GLIDE PATH IS CHANGED TO A HIGHER ANGLE FROM THE NOMINAL 3 DEGREES, IT MUST BE COMMUNICATED IN A NOTICE TO AIRMAN (NOTAM) AND PUBLISHED IN THE AIRPORT FACILITY DIRECTORY.
- PAPI OBSTACLE CLEARANCE SURFACE (OCS).
 - THE PAPI OCS PROVIDES THE PILOT WITH A MINIMUM APPROACH CLEARANCE.
 - THE PAPI MUST BE POSITIONED AND AIMED SO NO OBSTACLES PENETRATE ITS SURFACE.
 - THE OCS BEGINS 300 FEET IN FRONT OF THE PAPI SYSTEM.
 - THE OCS IS PROJECTED INTO THE APPROACH ZONE ONE DEGREE LESS THEN AIMING ANGLE OF THE THIRD LIGHT UNIT FROM THE RUNWAY FOR AN L-880 SYSTEM, OR THE OUTSIDE LIGHT UNIT FOR AN L-881 SYSTEM.



REV	DATE	DESCRIPTION

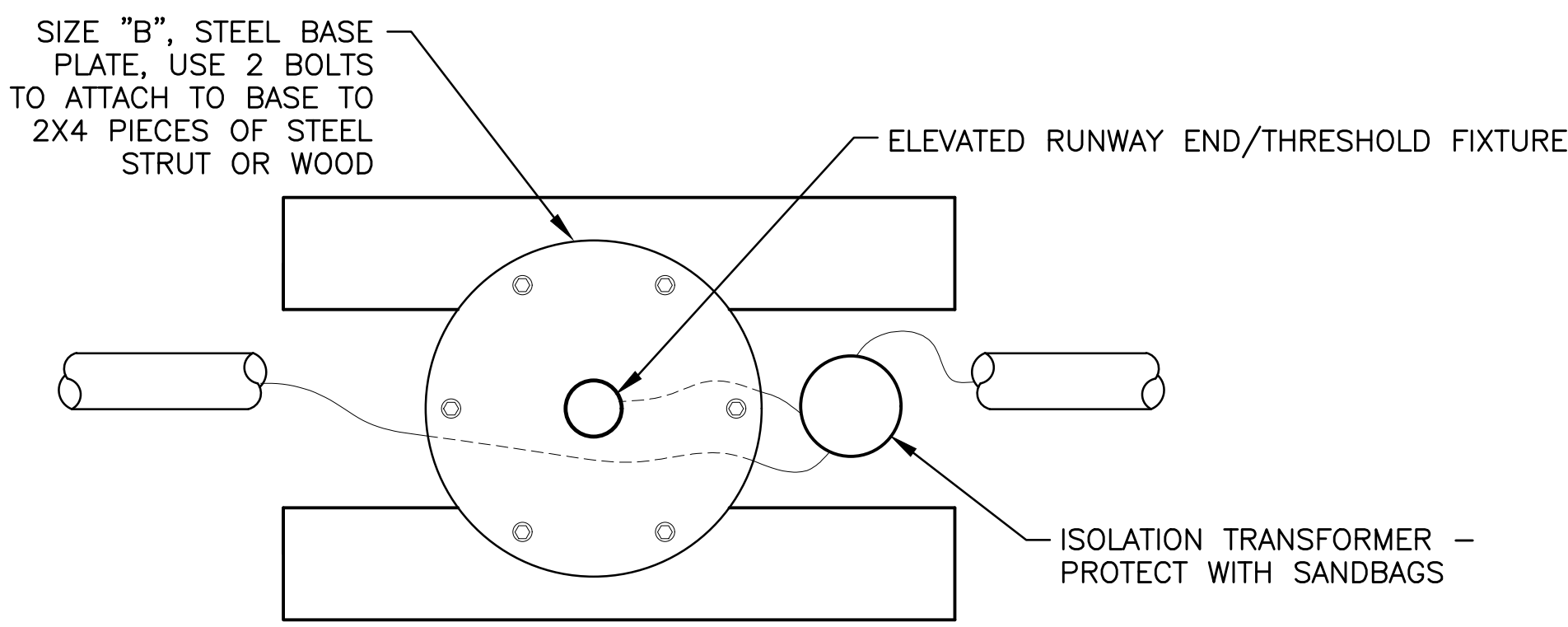
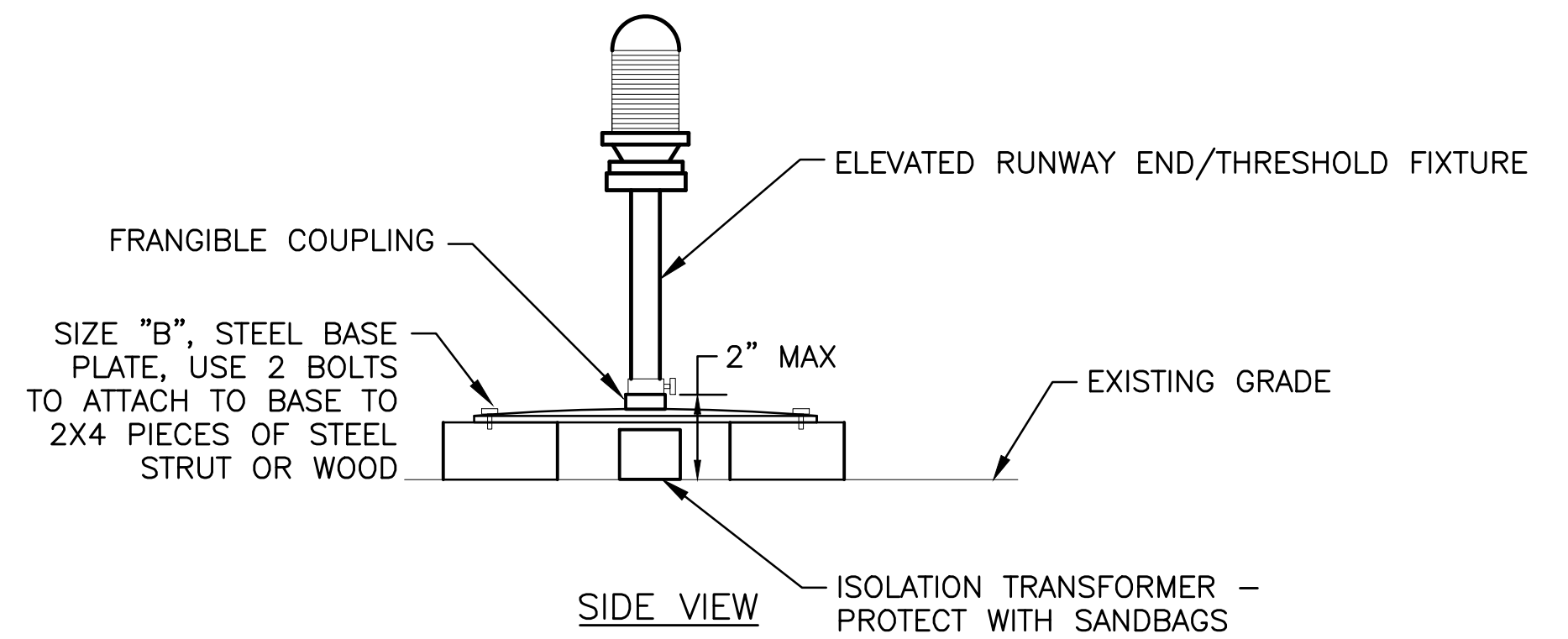


DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

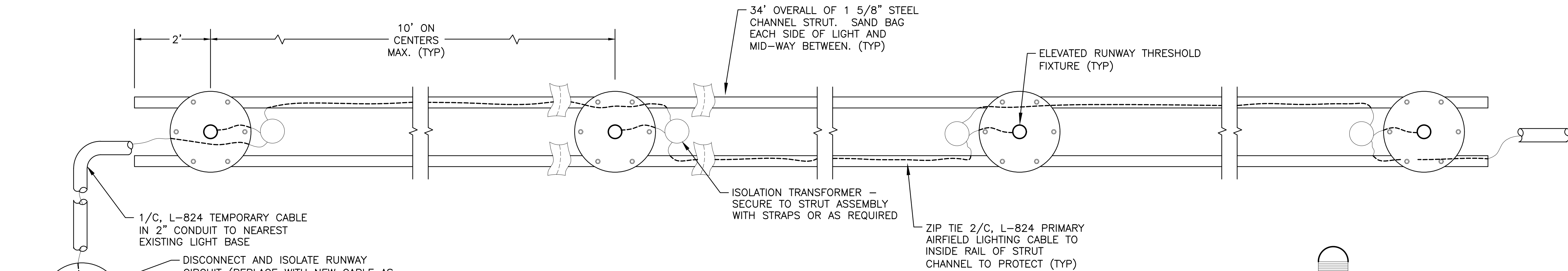


RUNWAY '12R-30L' RECONSTRUCTION BASEBID
(SCH 1) PAPI CRITERIA SCHEDULES

FILE Q:\PROJECTS\220000\220206 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\220206 E1-5.9 TEMPORARY THRESHOLD.dwg DATE: April 18, 2023 TIME: 3:01 PM BY: jeff weidman



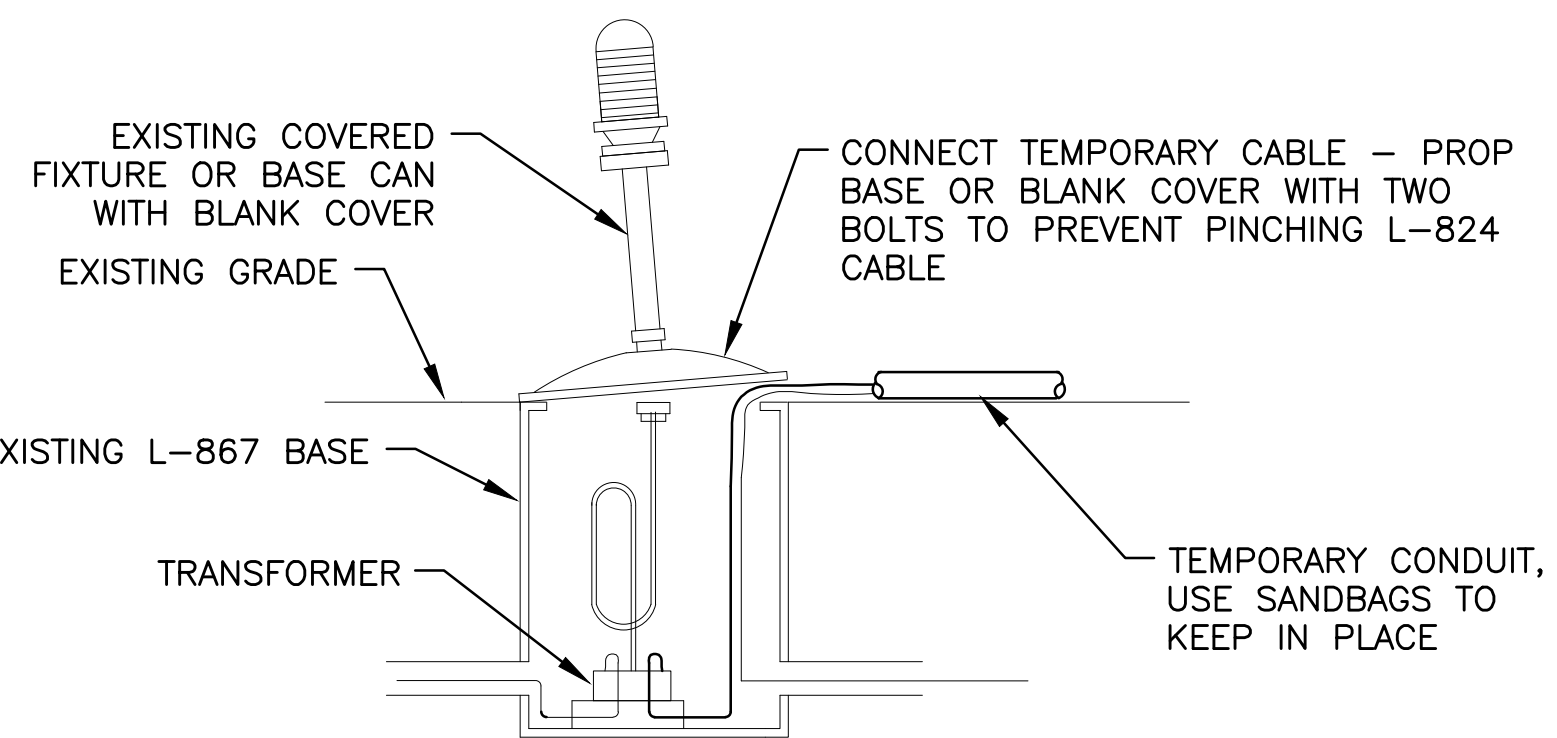
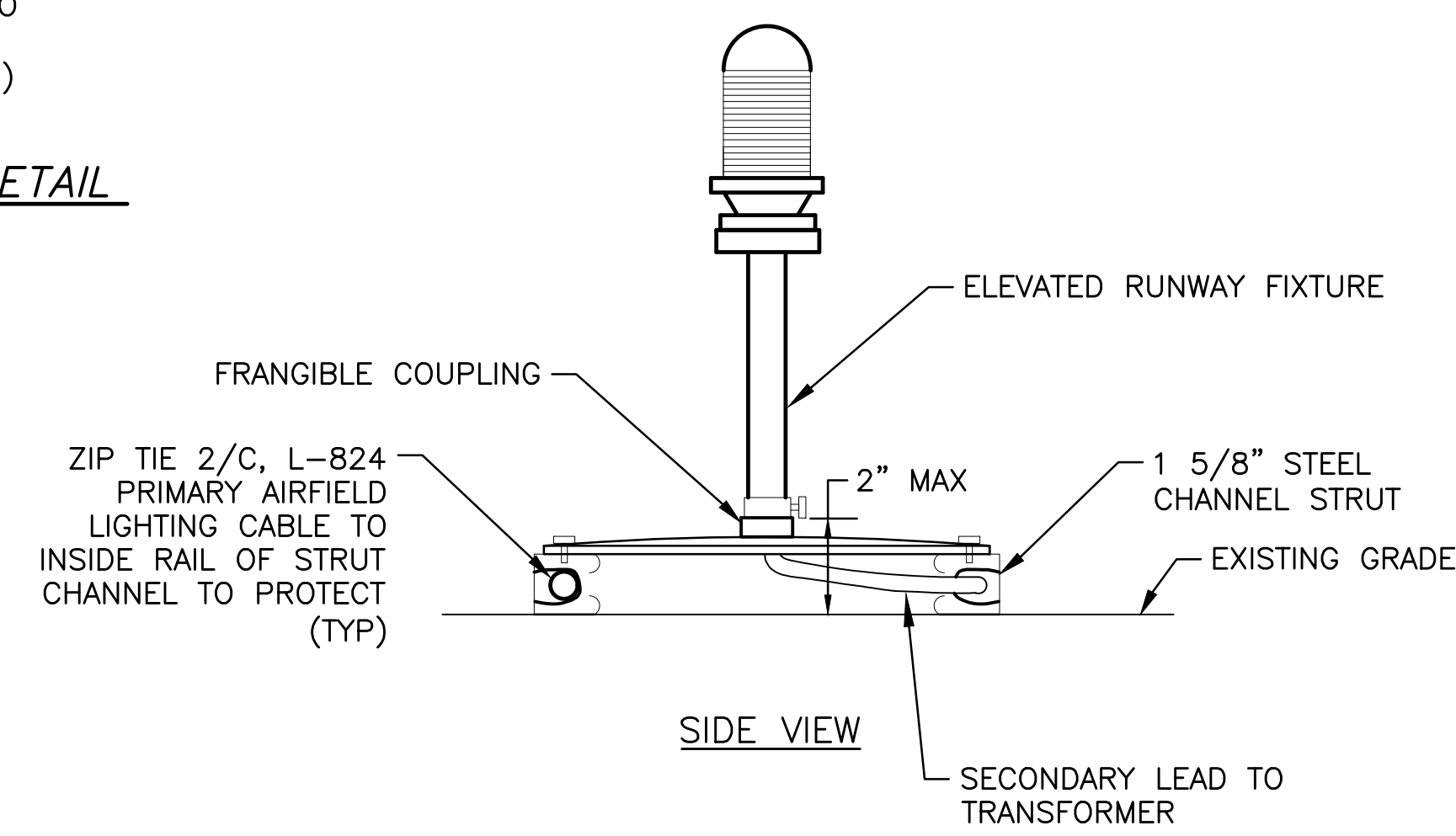
103 TYP ELEVATED RUNWAY END/THRESHOLD LIGHT – TEMPORARY MOUNTING DETAIL
NTS



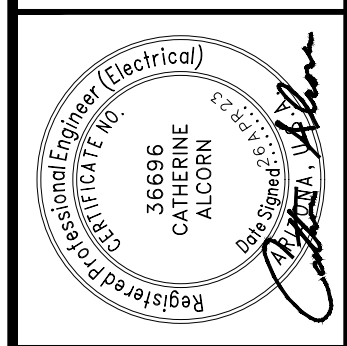
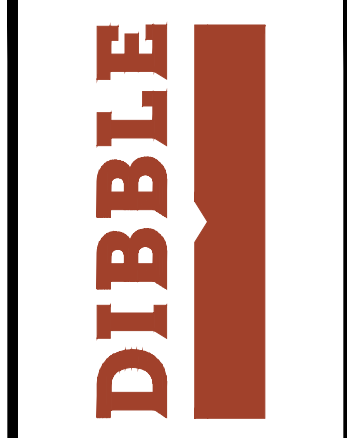
101 TYP ELEVATED RUNWAY THRESHOLD LIGHTS – TEMPORARY MOUNTING DETAIL
NTS

NOTES

1. REMOVE EXISTING END/THRESHOLD LIGHTS AND ISOLATION TRANSFORMERS FOR TEMPORARY MOUNTING AT RUNWAY THRESHOLD DURING PAVEMENT RECONSTRUCTION.
2. TEMPORARY THRESHOLD LIGHTING SHALL BE 10' OFF OF APPROACH SIDE OF RUNWAY THRESHOLD/END MARKING.
3. RUNWAY 7R/25L EDGE LIGHTING CIRCUIT IS A 6.6A, 3-STEP MEDIUM-INTENSITY SERIES CIRCUIT.



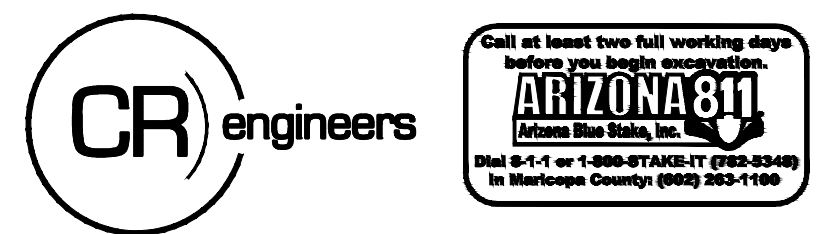
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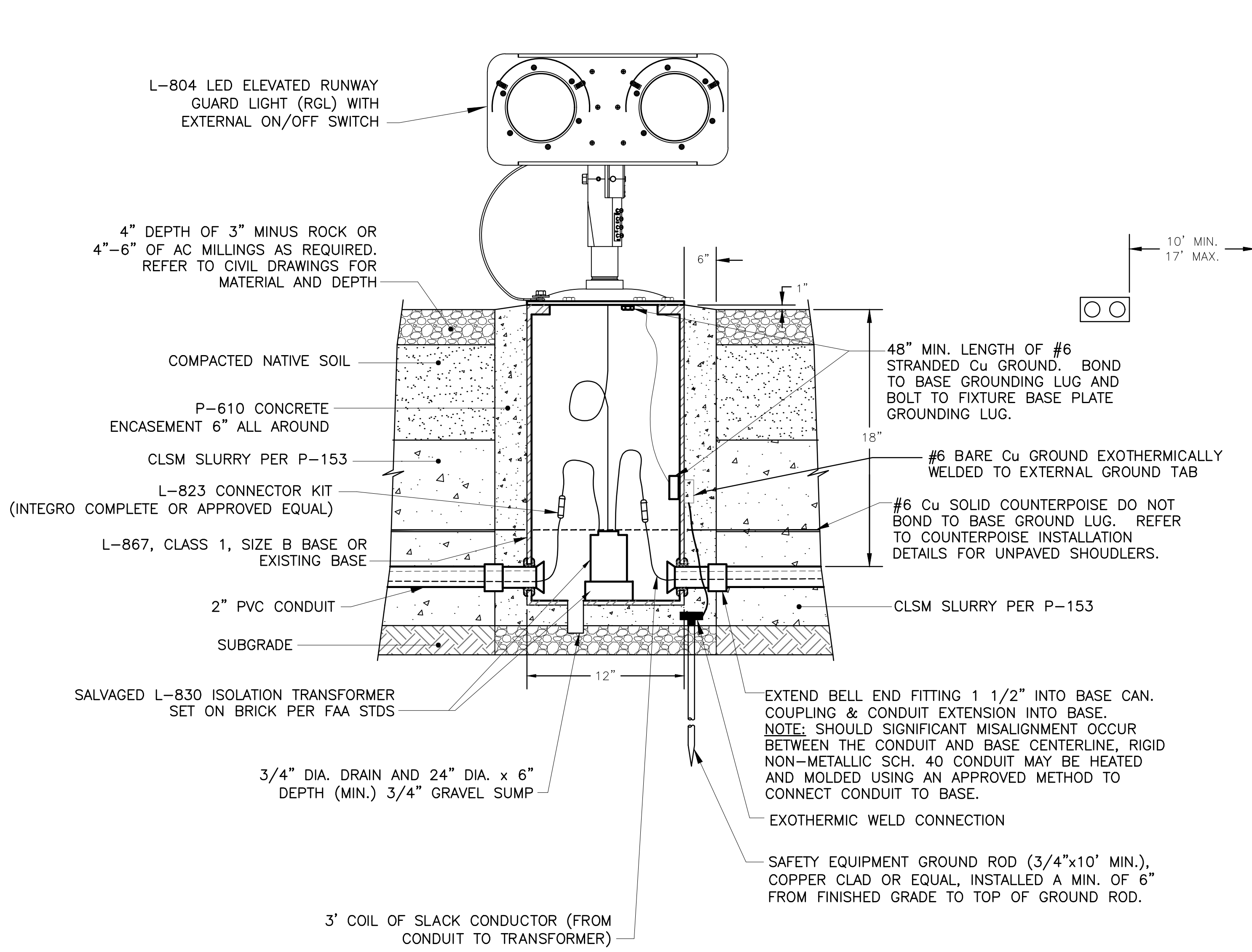
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DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



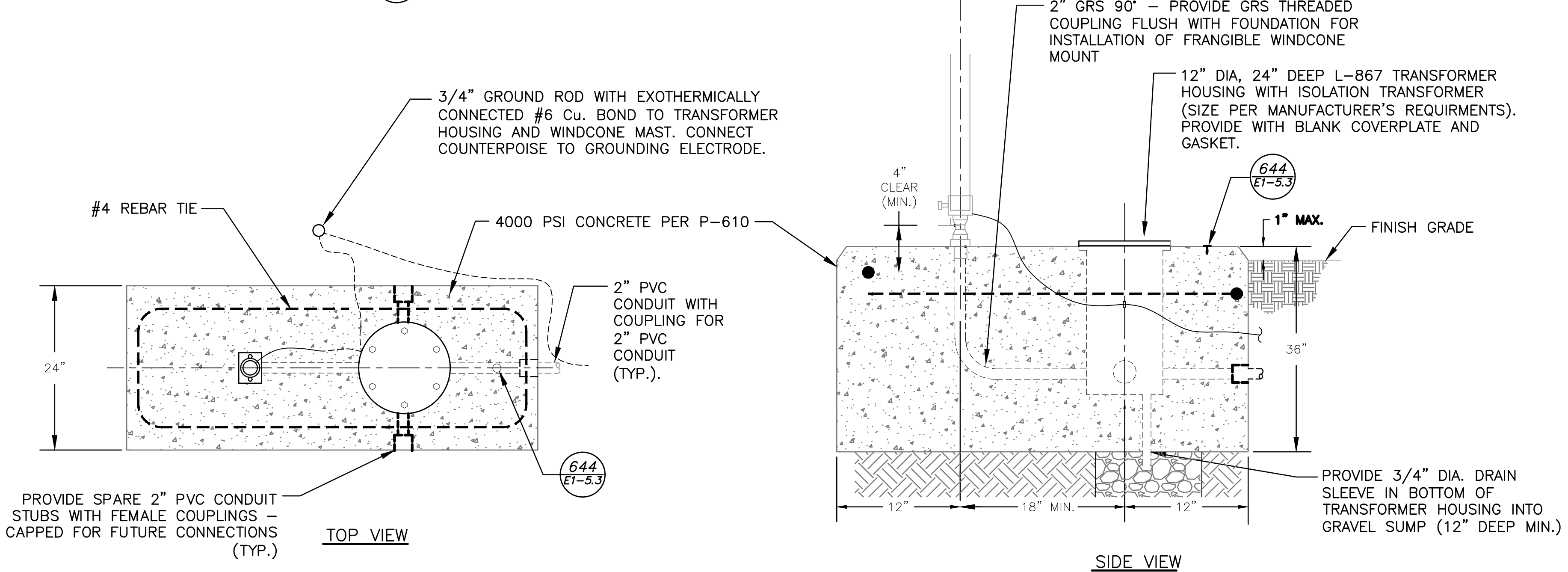
RUNWAY '12R-30L' RECONSTRUCTION BASEBID
(SCH 1) TEMPORARY THRESHOLD DETAILS



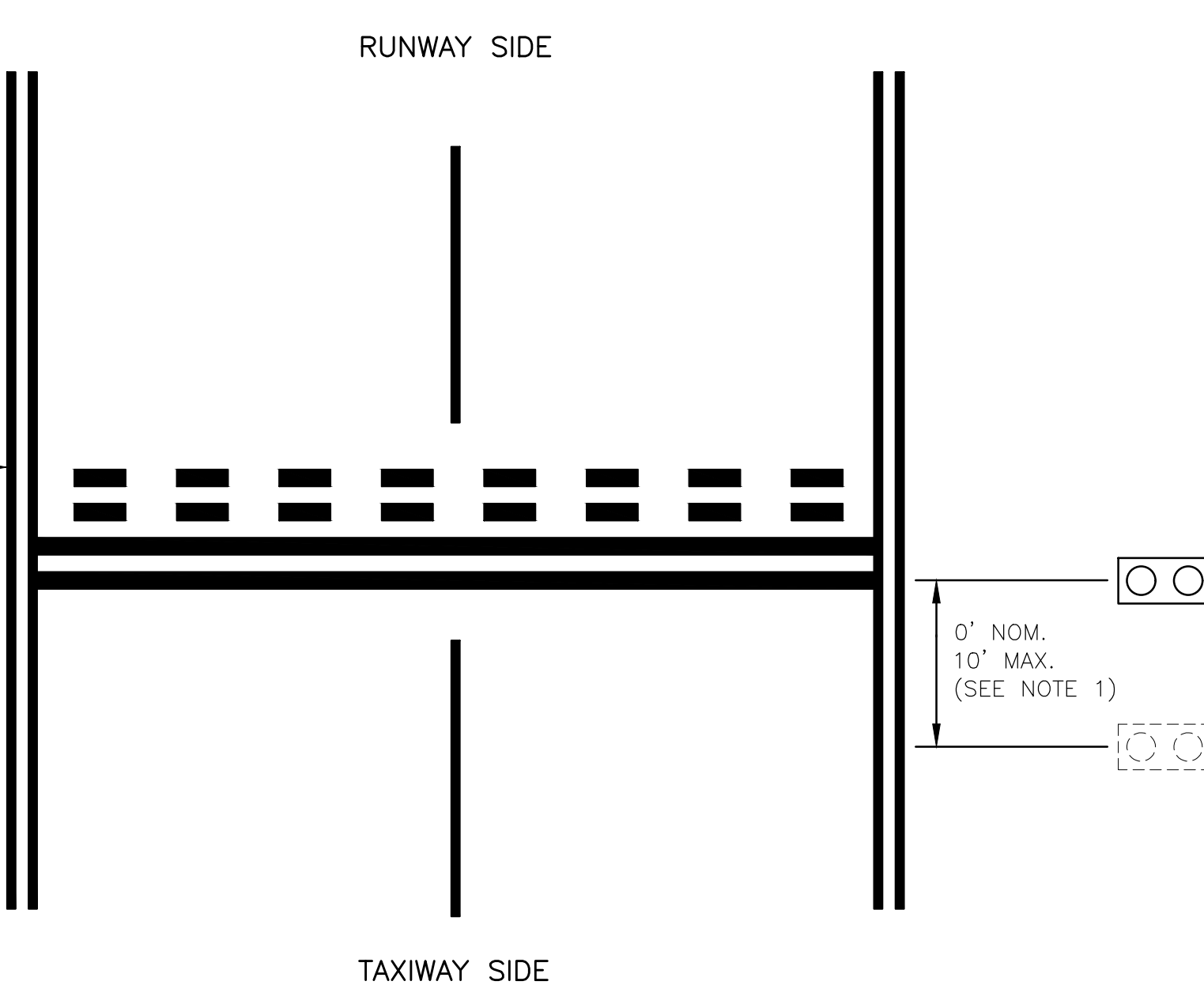
FILE Q:\PROJECTS\22000\220026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\22026 E1-5.10 WINDCONE AND RUNWAY GUARD LIGHT INSTALLATION DETAILS.dwg DATE: April 18, 2023 TIME: 3:13 PM BY: jeff weidman



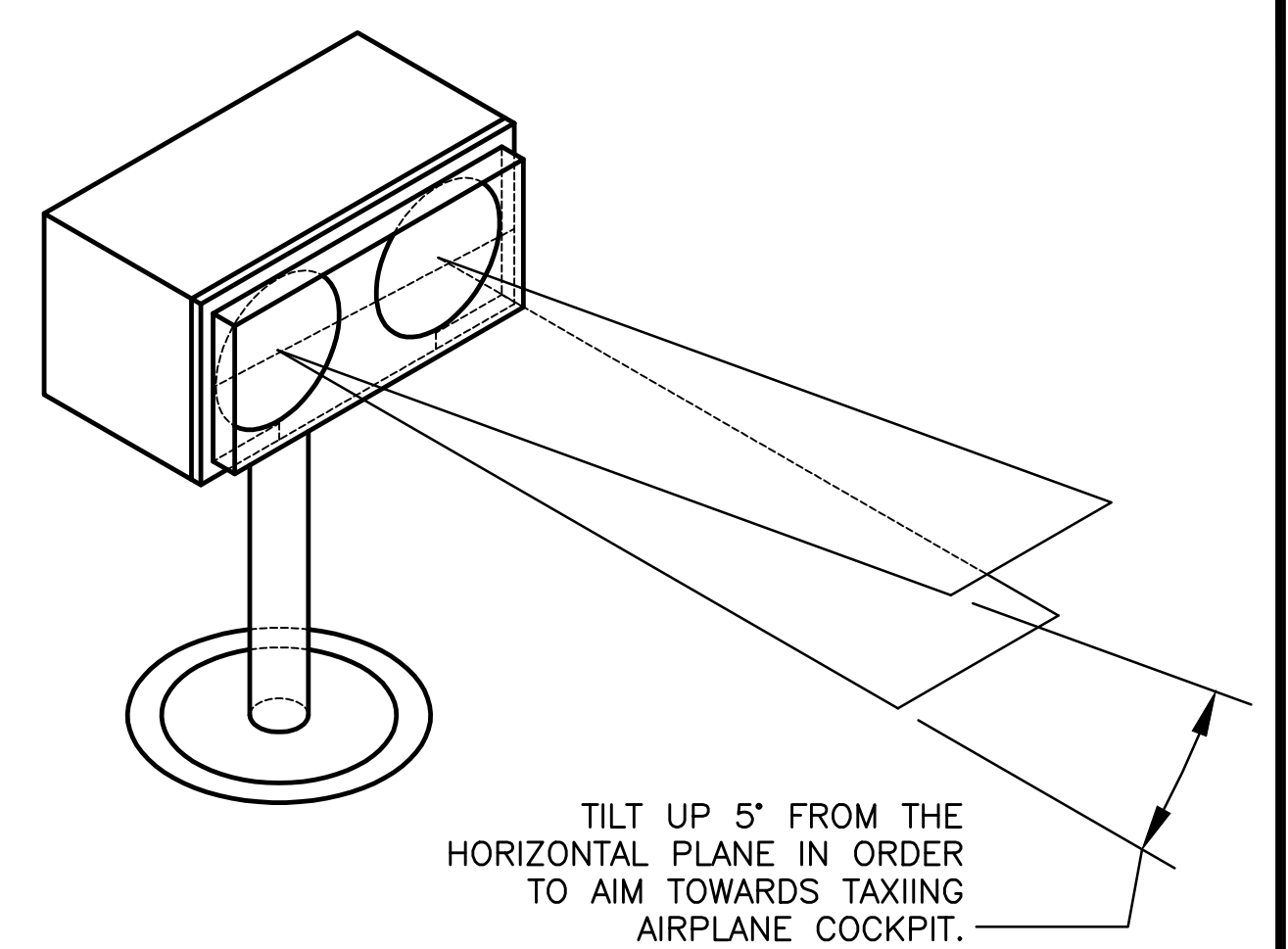
870 ELEVATED RUNWAY GUARD LIGHT DETAIL
TYP NTS



940 NEW CAST-IN-PLACE L-806 WINDCONE FOUNDATION
TYP NTS



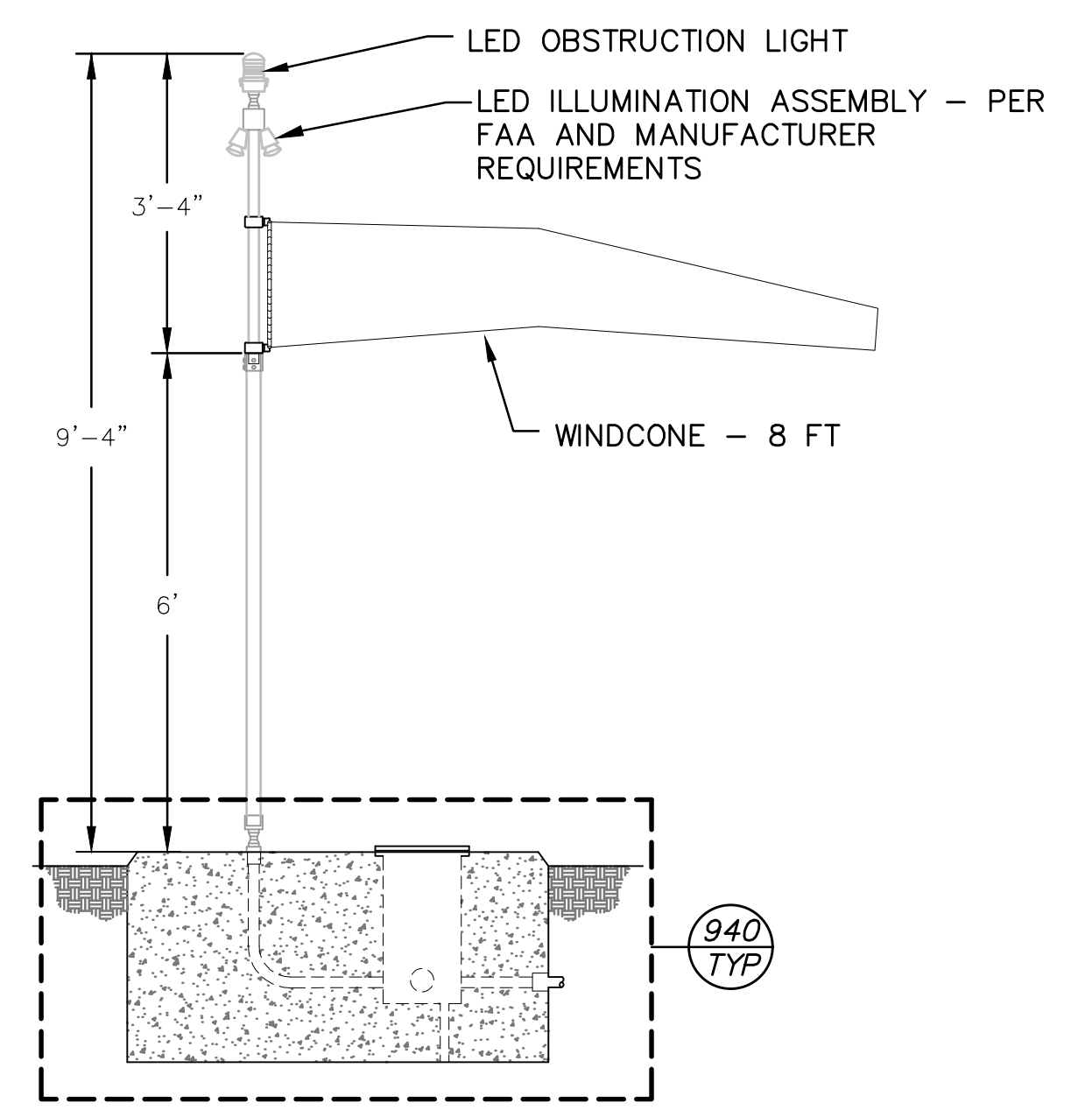
876 RUNWAY GUARD LIGHT CONFIGURATION
TYP NTS



871 ELEVATED RUNWAY GUARD LIGHT AIMING DETAIL
TYP NTS

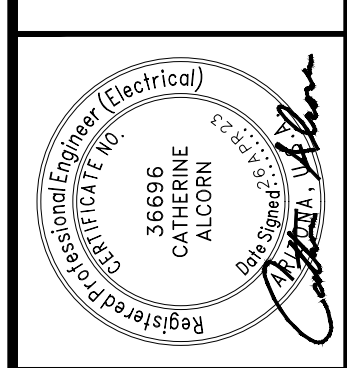
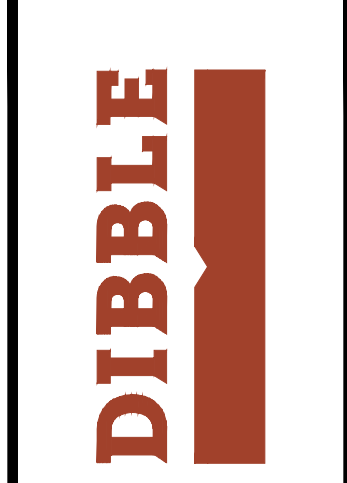
- NOTES:
1. THE ELEVATED RUNWAY GUARD LIGHT MAY BE MOVED UP TO 10 FEET MAX. AWAY FROM THE RUNWAY TO AVOID UNDESIRABLE SPOTS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER FOR EACH SUCH ADJUSTMENT.
 2. CONTRACTOR SHALL ACCURATELY SURVEY AND MEASURE THE ACTUAL CONSTRUCTED LOCATION OF EACH RGL AND INCLUDE IN THE PROJECT RECORD DRAWINGS.

- NOTES:
1. AIM THE CENTER OF THE LIGHT BEAM INWARD, TOWARD THE T/W CENTERLINE/AIRCRAFT COCKPIT WHEN THE AIRCRAFT IS BETWEEN 150' AND 200' FROM THE HOLDING POSITION, ALONG THE PREDOMINANT PATH/T/W CENTERLINE TO THE HOLDING POSITION. FIELD VERIFY ALL MEASUREMENTS AND AIMING ANGLES SINCE THE TAXIWAYS HAVE DIFFERENT CONFIGURATIONS.
 2. AT LOCATIONS WHERE A DISTANT AIMING POINT IS NOT PRACTICAL, AIM THE LIGHTS PARALLEL TO THE ASSOCIATED TAXIWAY CENTERLINE OR AS DIRECTED BY THE AIRPORT OPERATIONS.



937 LIGHTED LED WINDCONE (L-806)
TYP NTS

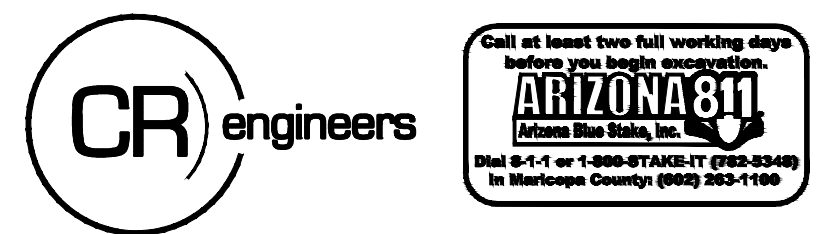
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DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY '12R-30L' RECONSTRUCTION BASEBID
(SCH 1) WINDCONE AND RUNWAY GUARD LIGHT INSTALLATION DETAILS



FILE Q:\PROJECTS\220000\220026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\BASEBID\220026 E1-6.1 EQUIPMENT DATA TABLES.dwg DATE: April 18, 2023 TIME: 3:15 PM BY: jeff weldman

RUNWAY EDGE LIGHTS
(SEE GENERAL NOTE 5)

NUMBER	STATION	OFFSET	CIRCUIT	TYPE
RWY-1	165+42.90	85.00' LT	R1	QUARTZ
RWY-2	167+31.35	85.00' LT	R1	QUARTZ
RWY-3	169+19.85	85.00' LT	R1	QUARTZ
RWY-4	171+08.47	85.00' LT	R1	QUARTZ
RWY-5	172+96.56	85.00' LT	R1	QUARTZ
RWY-6	174+85.36	85.00' LT	R1	QUARTZ
RWY-7	176+73.73	85.00' LT	R1	QUARTZ
RWY-8	178+23.88	85.00' LT	R1	QUARTZ
RWY-9	165+43.17	85.00' RT	R1	QUARTZ
RWY-10	167+31.22	85.00' RT	R1	QUARTZ
RWY-11	169+19.84	85.00' RT	R1	QUARTZ
RWY-12	171+08.37	85.00' RT	R1	QUARTZ
RWY-13	172+96.78	85.00' RT	R1	QUARTZ
RWY-14	174+85.25	85.00' RT	R1	QUARTZ
RWY-15	176+73.82	85.00' RT	R1	QUARTZ
RWY-16	146+97.58	85.00' LT	R1	QUARTZ
RWY-17	148+80.83	85.00' LT	R1	QUARTZ
RWY-18	150+63.61	85.00' LT	R1	QUARTZ
RWY-19	151+76.58	85.00' LT	R1	QUARTZ
RWY-20	153+00.82	85.00' LT	R1	QUARTZ
RWY-21	156+00.43	85.00' LT	R1	QUARTZ
RWY-22	157+89.05	85.00' LT	R1	QUARTZ
RWY-23	159+77.26	85.00' LT	R1	QUARTZ
RWY-24	161+65.93	85.00' LT	R1	QUARTZ
RWY-25	163+54.36	85.00' LT	R1	QUARTZ
RWY-26	146+97.57	85.00' RT	R1	QUARTZ
RWY-27	148+80.43	85.00' RT	R1	QUARTZ
RWY-28	150+63.71	85.00' RT	R1	QUARTZ
RWY-29	152+42.78	85.00' RT	R1	QUARTZ
RWY-30	156+00.46	85.00' RT	R1	QUARTZ
RWY-31	157+88.87	85.00' RT	R1	QUARTZ
RWY-32	161+66.18	85.00' RT	R1	QUARTZ
RWY-33	163+54.57	85.00' RT	R1	QUARTZ
RWY-34	EXISTING BASE CAN		R1	LED
RWY-35	105+02.10	85.00' LT	R1	LED
RWY-36	106+97.90	85.00' LT	R1	LED
RWY-37	108+93.91	85.00' LT	R1	LED
RWY-38	101+89.38	85.00' LT	R1	LED
RWY-39	112+85.33	85.00' LT	R1	LED
RWY-40	114+80.85	85.00' LT	R1	LED

RUNWAY EDGE LIGHTS
(SEE GENERAL NOTE 5)

NUMBER	STATION	OFFSET	CIRCUIT	TYPE
RWY-41	116+76.59	85.00' LT	R1	LED
RWY-42	118+72.54	85.00' LT	R1	LED
RWY-43	120+67.98	85.00' LT	R1	LED
RWY-44	122+63.70	85.00' LT	R1	LED
RWY-45	124+59.44	85.00' LT	R1	LED
RWY-46	126+55.18	85.00' LT	R1	LED
RWY-47	128+50.99	85.00' LT	R1	LED
RWY-48	130+51.14	85.00' LT	R1	LED
RWY-49	132+33.68	85.00' LT	R1	LED
RWY-50	134+16.72	85.00' LT	R1	LED
RWY-51	135+99.41	85.00' LT	R1	LED
RWY-52	137+82.82	85.00' LT	R1	LED
RWY-53	139+65.61	85.00' LT	R1	LED
RWY-54	141+48.51	85.00' LT	R1	LED
RWY-55	143+31.77	85.00' LT	R1	LED
RWY-56	145+14.74	85.00' LT	R1	LED
RWY-57 TO RWY-91	EXISTING BASE CAN		R1	LED
RWY-92	108+93.68	85.00' RT	R1	LED
RWY-93	110+89.12	85.00' RT	R1	LED
RWY-94	112+85.36	85.00' RT	R1	LED
RWY-95	114+80.89	85.00' RT	R1	LED
RWY-96	116+76.69	85.00' RT	R1	LED
RWY-97	118+72.48	85.00' RT	R1	LED
RWY-98	120+67.97	85.00' RT	R1	LED
RWY-99	122+63.54	85.00' RT	R1	LED
RWY-100	124+59.55	85.00' RT	R1	LED
RWY-101	126+55.12	85.00' RT	R1	LED
RWY-102	128+50.58	85.00' RT	R1	LED
RWY-103	130+50.82	85.00' RT	R1	LED
RWY-104	132+33.97	85.00' RT	R1	LED
RWY-105	135+99.47	85.00' RT	R1	LED
RWY-106	137+82.93	85.00' RT	R1	LED
RWY-107	139+65.77	85.00' RT	R1	LED
RWY-108	141+48.69	85.00' RT	R1	LED
RWY-109	143+31.55	85.00' RT	R1	LED
RWY-110	145+14.78	85.00' RT	R1	LED
RWY-111 TO RWY-138	EXISTING BASE CAN		R1	LED

HANDHOLE DATA TABLE

NUMBER	STATION	OFFSET
HH-1	169+97.31	151.44' LT
HH-2	176+82.42	152.22' LT
HH-3	169+97.10	152.53' RT
HH-4	176+84.05	151.90' RT
HH-5	150+69.57	151.58' LT
HH-6	153+12.34	147.85' LT
HH-7	155+88.92	147.78' LT
HH-8	150+70.58	152.08' RT
HH-9	110+52.17	151.81' LT
HH-10	118+98.94	151.69' LT
HH-11	128+62.32	151.88' LT
HH-12	130+36.70	151.89' LT
HH-13	132+50.54	153.40' LT
HH-14	136+96.90	151.60' LT
HH-15	110+52.50	152.23' RT
HH-16	119+00.70	153.12' RT
HH-17	128+64.11	152.00' RT
HH-18	130+39.36	152.22' RT
HH-19	132+52.08	153.70' RT
HH-20	136+98.38	152.37' RT

RUNWAY DISTANCE REMAINING SIGN DATA TABLE

NUMBER	STATION	OFFSET	CIRCUIT
RDR-1	161+93.39	148.50' LT	R1S
RDR-2	171+92.71	148.50' LT	RIS
RDR-3	181+92.09	148.50' LT	RIS
RDR-4	192+61.76	148.50' LT	RIS
RDR-5	161+93.19	148.50' RT	RIS
RDR-6	171+92.73	148.50' RT	RIS
RDR-7	181+92.09	148.50' RT	RIS
RDR-8	192+61.76	148.50' RT	RIS
RDR-9	151+83.23	148.50' LT	RIS
RDR-10	151+83.23	148.50' RT	RIS
RDR-11	111+94.31	148.50' LT	RIS
RDR-12	121+94.12	148.50' LT	RIS
RDR-13	131+93.89	148.50' LT	RIS
RDR-14	141+93.87	148.50' LT	RIS
RDR-15	111+94.31	148.50' RT	RIS
RDR-16	121+94.12	148.50' RT	RIS
RDR-17	131+93.89	148.50' RT	RIS
RDR-18	141+93.78	148.50' RT	RIS

JUNCTION CAN DATA TABLE

NUMBER	STATION	OFFSET
JC-1	165+94.36	152.51' LT
JC-2	186+91.74	154.03' LT
JC-3	193+79.93	148.54' LT
JC-4	199+02.82	133.52' LT
JC-5	165+94.16	153.54' RT
JC-6	186+92.20	154.02' RT
JC-7	189+26.85	217.05' RT
JC-8	115+50.97	159.16' LT
JC-9	125+23.13	152.83' LT
JC-10	146+30.70	152.60' LT
JC-11	146+31.23	153.25' RT

TAXIWAY EDGE LIGHT DATA TABLE

NUMBER	STATION	OFFSET
TW-1	03+39.57	89.57' LT
TW-2	03+67.56	82.19' LT
TW-3	03+99.55	82.19' LT
TW-4	03+98.54	83.16' RT
TW-5	03+63.90	83.15' RT
TW-6	03+39.57	89.57' RT
TW-7	01+60.49	90.21' LT
TW-8	01+60.33	89.15' RT
TW-9	158+59.89	89.57' RT
TW-10	160+39.47	89.60' RT

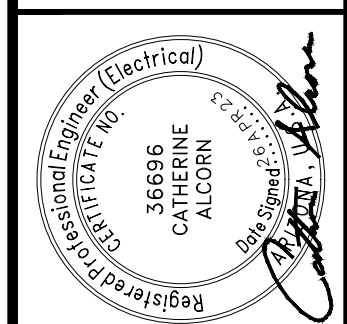
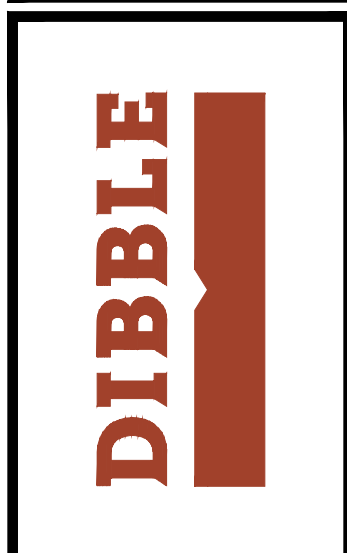
GENERAL NOTES

- EQUIPMENT NUMBERS SHOWN ARE FOR CONSTRUCTION REFERENCE ONLY. COORDINATE WITH AIRPORT MAINTENANCE FOR LABELING OF ALL EQUIPMENT.
- CONTRACTOR TO ENSURE NEW TAXIWAY EDGE LIGHT LOCATIONS DO NOT EXCEED 10 FEET FROM EDGE OF FULL STRENGTH PAVEMENT/OUTER EDGE OF TAXIWAY EDGE MARKING AND IF APPLICABLE ARE IN-LINE WITH EXISTING TAXIWAY EDGE LIGHTING - PERFORM FIELD ADJUSTMENTS AS NECESSARY. CONTRACTOR SHALL CONFIRM ANY DIFFERENCES OF MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF LIGHT LOCATIONS IS BEING PERFORMED, WITH ENGINEER BEFORE LIGHT BASE IS INSTALLED.
- OFFSETS GIVEN FOR EACH EQUIPMENT TYPE ARE MEASURED FROM NEAREST RUNWAY/TAXIWAY CENTERLINE (ALIGNMENT).
- CONTRACTOR TO ENSURE AIRFIELD GUIDANCE SIGN LOCATIONS FALL WITHIN FAA SPECIFICATIONS EDGE OF FULL STRENGTH PAVEMENT/OUTER EDGE OF TAXIWAY EDGE MARKING. CONTRACTOR SHALL CONFIRM ANY DIFFERENCES OF MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF AIRFIELD GUIDANCE SIGN AND BASE IS BEING PERFORMED, WITH ENGINEER BEFORE SIGN BASE IS INSTALLED.
- CONTRACTOR TO ENSURE NEW RUNWAY EDGE LIGHT LOCATIONS DO NOT EXCEED 10 FEET FROM EDGE OF FULL STRENGTH PAVEMENT/OUTER EDGE OF RUNWAY EDGE MARKING AND ARE IN-LINE WITH EXISTING RUNWAY EDGE LIGHTING - PERFORM FIELD ADJUSTMENTS AS NECESSARY. CONTRACTOR SHALL CONFIRM ANY DIFFERENCES OF MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF LIGHT LOCATIONS IS BEING PERFORMED, WITH ENGINEER BEFORE LIGHT BASE IS INSTALLED.

EQUIPMENT LOCATION STANDARDS TABLE
(PROVIDED FOR REFERENCE ONLY)

EQUIPMENT TYPE	LOCATION STANDARD	NOTES
RUNWAY EDGE LIGHT	2'-10' (SEE GENERAL NOTE 5)	MEASURE TO CENTER OF LIGHT FIXTURE; STATION/OFFSET GIVEN IS CENTER OF LIGHT FIXTURE (SEE FAA AC 150/5340-30)
TAXIWAY EDGE LIGHT	2'-10' (SEE GENERAL NOTE 2)	MEASURE TO CENTER OF LIGHT FIXTURE; STATION/OFFSET GIVEN IS CENTER OF LIGHT FIXTURE (SEE FAA AC 150/5340-30)
HANDHOLE		STATION/OFFSET GIVEN IS CENTER OF HANDHOLE LID
JUNCTION CAN		STATION/OFFSET GIVEN IS CENTER OF JUNCTION CAN COVER

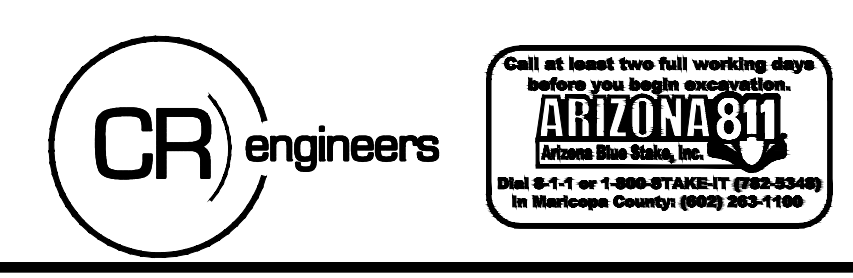
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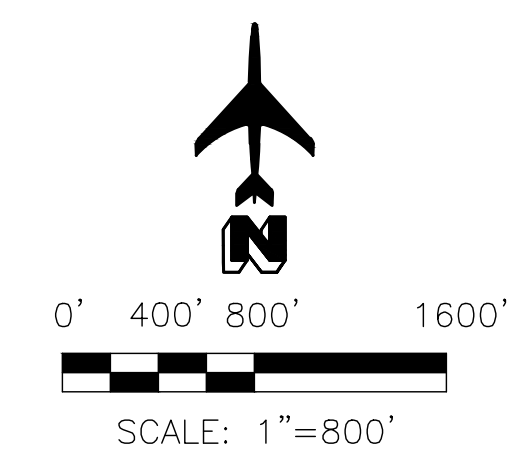
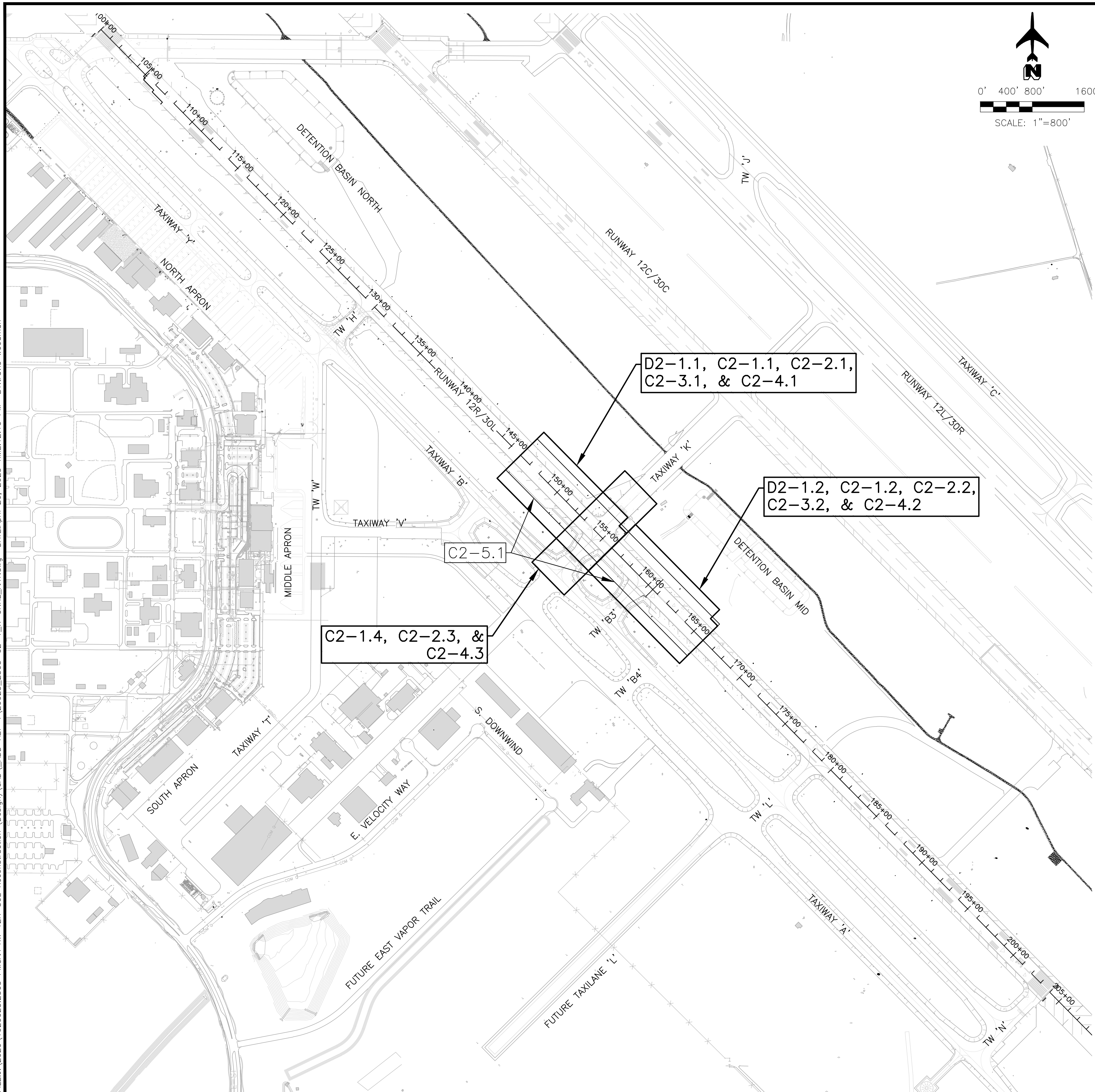
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DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



RUNWAY 12R-30L RECONSTRUCTION BASEBID EQUIPMENT DATA TABLES



FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-1\20023-2303-C2-1-X-GNRL-AA1.dwg DATE:April 26, 2023 TIME:12:10 PM BY:trovis woodman



ADD ALT 1 SHEET INDEX

SHT NO	SHT	SHEET TITLE
ADD ALT 1: (SCH II) GENERAL		
67	G2-1.1	SHEET INDEX & KEY MAP
68	G2-1.2	PROJECT SITE PLAN
ADD ALT 1: (SCH II) PHASING		
69	G2-2.1	CONSTRUCTION PHASE 1
ADD ALT 1: (SCH II) TYPICAL SECTIONS		
70	G2-3.1	TYPICAL SECTIONS
71	G2-3.2	TYPICAL SECTIONS
ADD ALT 1: (SCH II) DEMOLITION PLAN		
72	D2-1.1	STA 146+00 TO STA 156+00
73	D2-1.2	STA 156+00 TO STA 166+00
ADD ALT 1: (SCH II) PAVING PLAN & PROFILE		
74	C2-1.1	STA 146+00 TO STA 156+00
75	C2-1.2	STA 156+00 TO STA 166+00
76	C2-1.3	ASPHALT TRANSITION PAVEMENT ELEVATIONS
77	C2-1.4	TAXIWAY 'K'
ADD ALT 1: (SCH II) GRADING & DRAINAGE PLAN		
78	C2-2.1	STA 146+00 TO STA 156+00
79	C2-2.2	STA 156+00 TO STA 166+00
ADD ALT 1: (SCH II) PAVEMENT ELEVATION PLAN		
80	C2-3.1	STA 146+00 TO STA 156+00
81	C2-3.2	STA 156+00 TO STA 166+00
82	C2-3.3	TAXIWAY 'K' AND 'B3'
ADD ALT 1: (SCH II) JOINT LAYOUT PLAN		
83	C2-4.1	STA 146+00 TO STA 156+00
84	C2-4.2	STA 156+00 TO STA 166+00
85	C2-4.3	TAXIWAY 'K' AND 'B3'
ADD ALT 1: (SCH II) PAVEMENT MARKING PLAN		
86	C2-5.1	STA 146+00 TO STA 156+00
87	C2-5.2	STA 156+00 TO STA 166+00
ADD ALT 1: (SCH II) STORMWATER POLLUTION PREVENTION PLAN		
88	C2-6.1	STORMWATER POLLUTION PREVENTION PLAN
ADD ALT 1: (SCH II) BORINGS		
89	GT2-1.1	BORING LOCATION MAP
90	GT2-1.2	BORING LOGS
ADD ALT 1: ELECTRICAL		
91	E2-2.1	AIRFIELD ELECTRICAL DEMOLITION
92	E2-2.2	AIRFIELD ELECTRICAL DEMOLITION
93	E2-3.1	AIRFIELD ELECTRICAL INSTALLATION
94	E2-3.2	AIRFIELD ELECTRICAL INSTALLATION

REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C2-1-X-GNRL-AA1

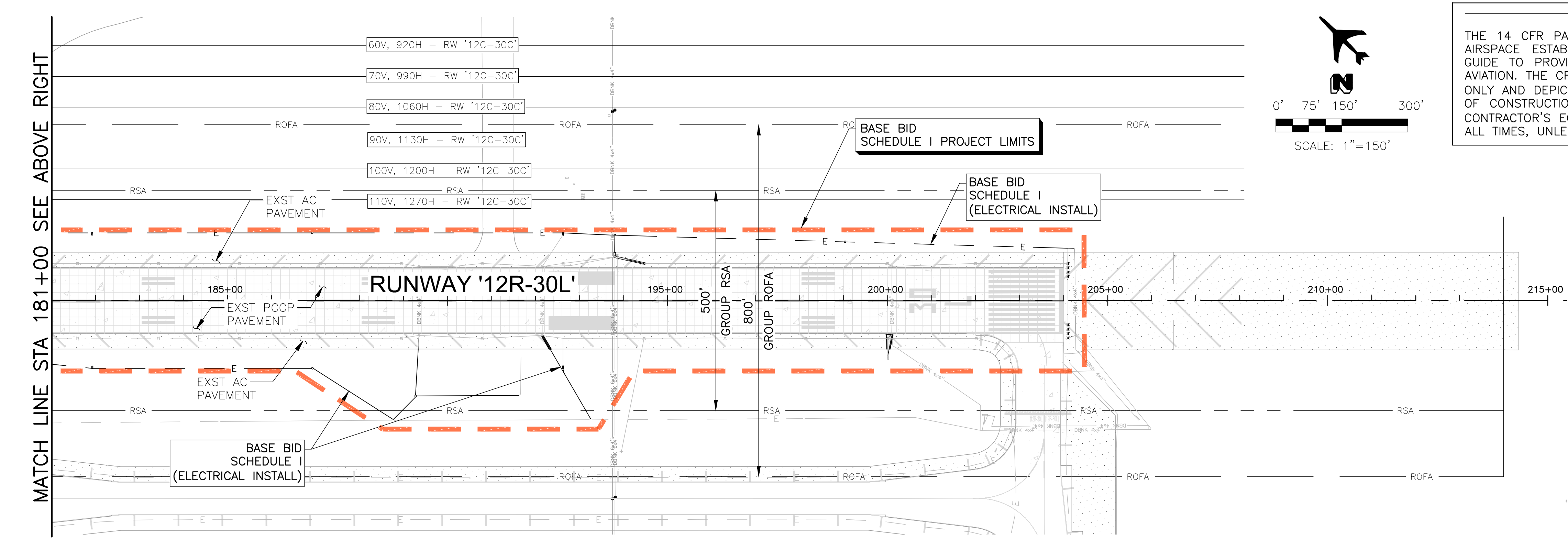
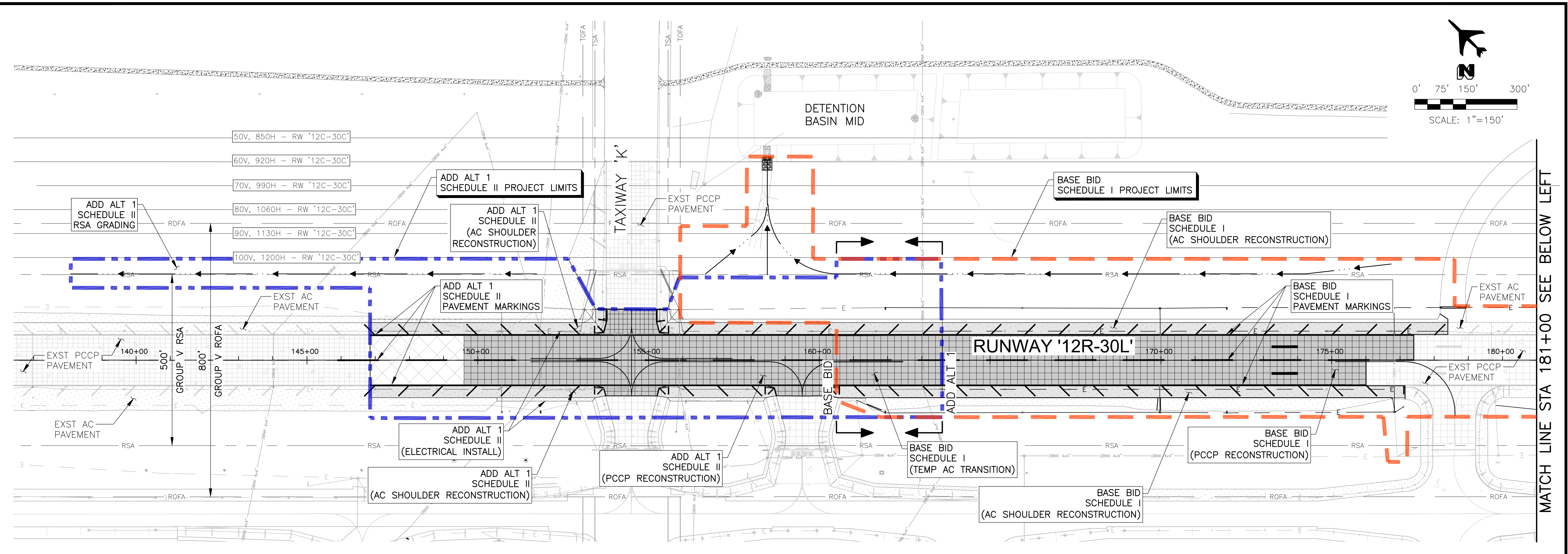


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
SUSN SHEET INDEX & KEY MAP**



G2-1.1
SHEET NO.
67 OF **211**

FILE: 2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-1\20023-2303-02-1_X-GNRL_AA1.dwg DATE: April 26, 2023 TIME: 12:10 PM BY: trovis woodman



30V, 710H - RW '12C-30C'

THE 14 CFR PART 77 SAFE, EFFICIENT USE, AND PRESERVATION OF NAVIGABLE AIRSPACE ESTABLISHES SEVERAL IMAGINARY SURFACES THAT ARE USED AS A GUIDE TO PROVIDE A SAFE AND UNOBSTRUCTED OPERATING ENVIRONMENT FOR AVIATION. THE CFR PART 77 CONTOURS SHOWN ARE FOR INFORMATION PURPOSES ONLY AND DEPICT THE MAXIMUM ALLOWABLE VERTICAL HEIGHT (IN FEET, LABEL V) OF CONSTRUCTION EQUIPMENT ABOVE THE RUNWAY CENTERLINE ELEVATION. THE CONTRACTOR'S EQUIPMENT SHALL REMAIN BELOW ALL CFR PART 77 SURFACES AT ALL TIMES, UNLESS APPROVED OTHERWISE BY ENGINEER.

LEGEND

	BASE BID SCHEDULE I PROJECT LIMITS
	ADD ALT 1 SCHEDULE II PROJECT LIMITS

MATCH LINE STA 181+00 SEE BELOW LEFT

MATCH LINE STA 181+00 SEE ABOVE RIGHT

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 53003
 M. JARED BASS
 License No. 04176272
 ARIZONA, U.S.A.

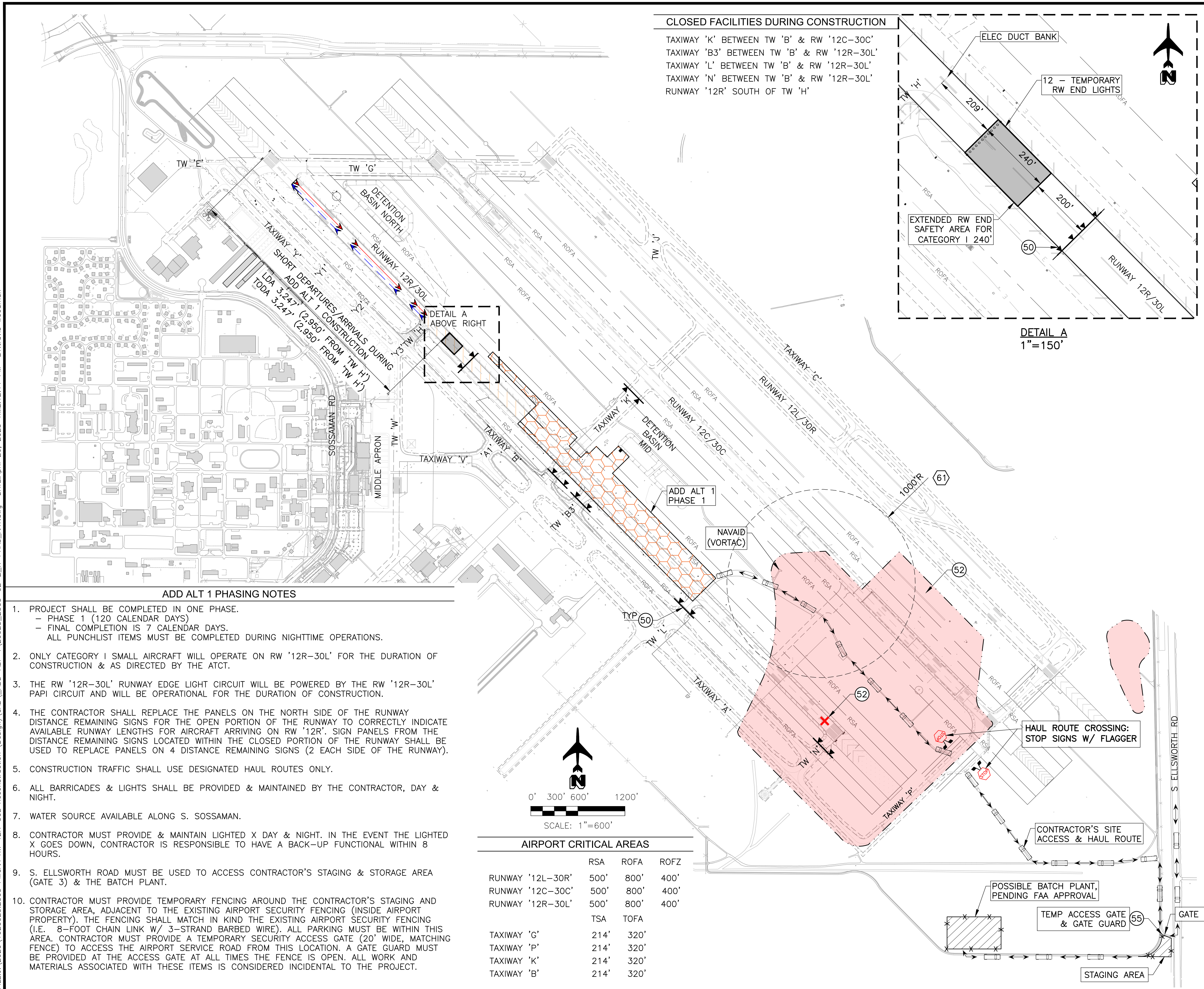
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DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
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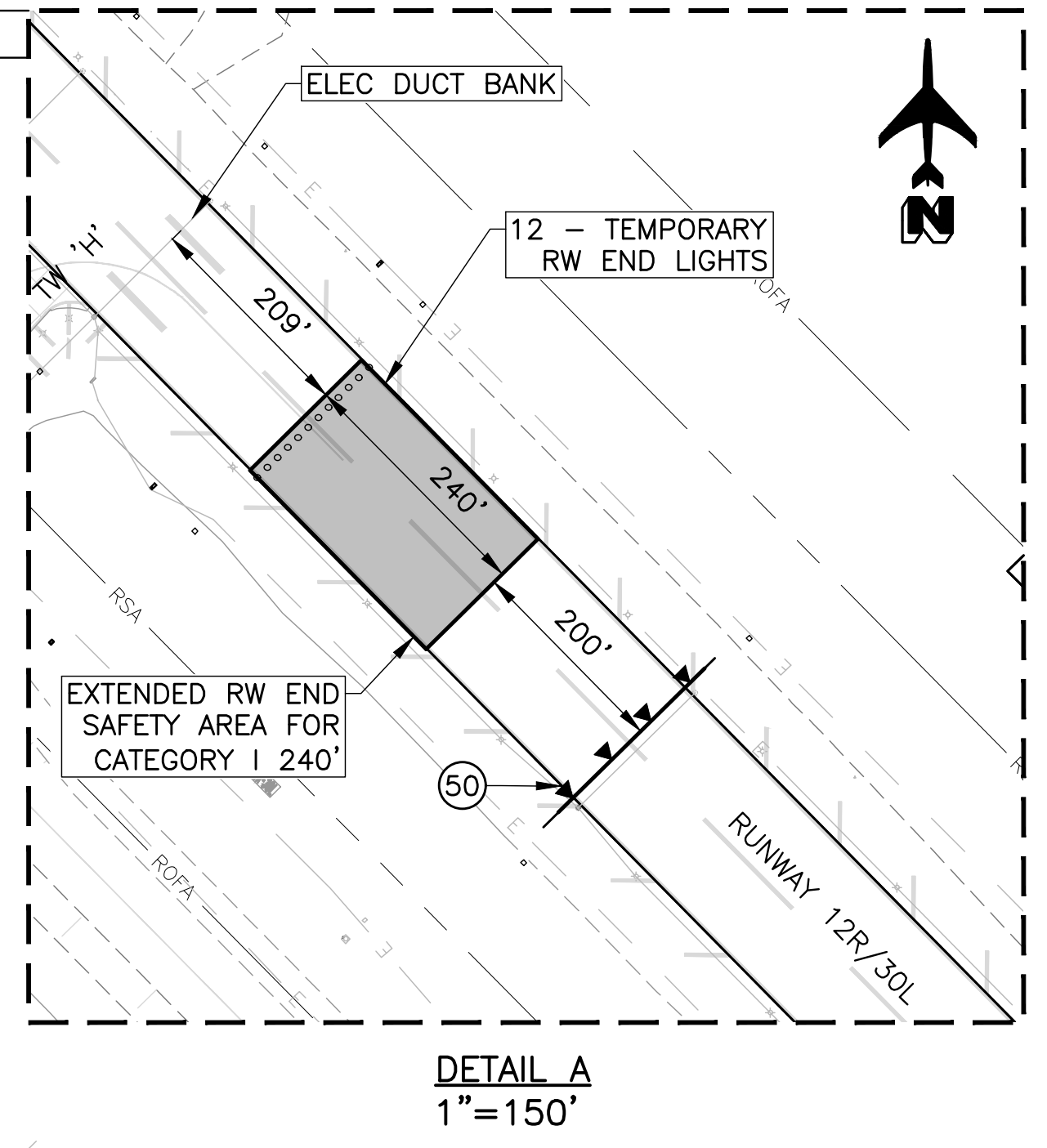
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PROJECT SITE PLAN**



FILE:J:\2020\1020023.2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-1\20023.2303-G2-2 X-PHASE-AA1.dwg DATE:April 26, 2023 TIME:12:11 PM BY:trovis woodman

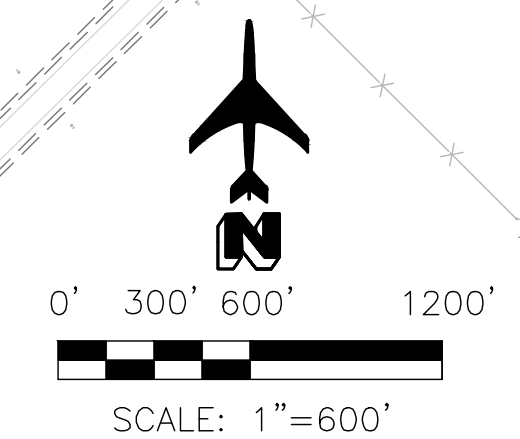


CLOSED FACILITIES DURING CONSTRUCTION
 TAXIWAY 'K' BETWEEN TW 'B' & RW '12C-30C'
 TAXIWAY 'B3' BETWEEN TW 'B' & RW '12R-30L'
 TAXIWAY 'L' BETWEEN TW 'B' & RW '12R-30L'
 TAXIWAY 'N' BETWEEN TW 'B' & RW '12R-30L'
 RUNWAY '12R' SOUTH OF TW 'H'



ADD ALT 1 PHASING NOTES

- PROJECT SHALL BE COMPLETED IN ONE PHASE.
 - PHASE 1 (120 CALENDAR DAYS)
 - FINAL COMPLETION IS 7 CALENDAR DAYS.
 ALL PUNCHLIST ITEMS MUST BE COMPLETED DURING NIGHTTIME OPERATIONS.
- ONLY CATEGORY I SMALL AIRCRAFT WILL OPERATE ON RW '12R-30L' FOR THE DURATION OF CONSTRUCTION & AS DIRECTED BY THE ATCT.
- THE RW '12R-30L' RUNWAY EDGE LIGHT CIRCUIT WILL BE POWERED BY THE RW '12R-30L' PAPI CIRCUIT AND WILL BE OPERATIONAL FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL REPLACE THE PANELS ON THE NORTH SIDE OF THE RUNWAY DISTANCE REMAINING SIGNS FOR THE OPEN PORTION OF THE RUNWAY TO CORRECTLY INDICATE AVAILABLE RUNWAY LENGTHS FOR AIRCRAFT ARRIVING ON RW '12R'. SIGN PANELS FROM THE DISTANCE REMAINING SIGNS LOCATED WITHIN THE CLOSED PORTION OF THE RUNWAY SHALL BE USED TO REPLACE PANELS ON 4 DISTANCE REMAINING SIGNS (2 EACH SIDE OF THE RUNWAY).
- CONSTRUCTION TRAFFIC SHALL USE DESIGNATED HAUL ROUTES ONLY.
- ALL BARRICADES & LIGHTS SHALL BE PROVIDED & MAINTAINED BY THE CONTRACTOR, DAY & NIGHT.
- WATER SOURCE AVAILABLE ALONG S. SOSSAMAN.
- CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.
- S. ELLSWORTH ROAD MUST BE USED TO ACCESS CONTRACTOR'S STAGING & STORAGE AREA (GATE 3) & THE BATCH PLANT.
- CONTRACTOR MUST PROVIDE TEMPORARY FENCING AROUND THE CONTRACTOR'S STAGING AND STORAGE AREA, ADJACENT TO THE EXISTING AIRPORT SECURITY FENCING (INSIDE AIRPORT PROPERTY). THE FENCING SHALL MATCH IN KIND THE EXISTING AIRPORT SECURITY FENCING (I.E. 8-FOOT CHAIN LINK W/ 3-STRAND BARBED WIRE). ALL PARKING MUST BE WITHIN THIS AREA. CONTRACTOR MUST PROVIDE A TEMPORARY SECURITY ACCESS GATE (20' WIDE, MATCHING FENCE) TO ACCESS THE AIRPORT SERVICE ROAD FROM THIS LOCATION. A GATE GUARD MUST BE PROVIDED AT THE ACCESS GATE AT ALL TIMES THE FENCE IS OPEN. ALL WORK AND MATERIALS ASSOCIATED WITH THESE ITEMS IS CONSIDERED INCIDENTAL TO THE PROJECT.



AIRPORT CRITICAL AREAS

	RSA	ROFA	ROFZ
RUNWAY '12L-30R'	500'	800'	400'
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
	TSA	TOFA	
TAXIWAY 'G'	214'	320'	
TAXIWAY 'P'	214'	320'	
TAXIWAY 'K'	214'	320'	
TAXIWAY 'B'	214'	320'	

- CONSTRUCTION NOTES**
- 50 LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1 NPI
 - 52 LIGHTED 'X' FOR RUNWAY '30L' CLOSURE. PROVIDED & MAINTAINED BY THE CONTRACTOR. DET 1, SHT G1-2.1. NPI
 - 55 CONTRACTOR SHALL PROVIDE A LOCK TO BE INTERLOCKED W/AIRPORT LOCK. A GATE GUARD SHALL BE PROVIDED WHENEVER THE GATE IS LEFT OPEN. NPI
- REFERENCE NOTES**
- 61 CONTRACTOR SHALL NOT STAGE EQUIPMENT OR MATERIALS IN NAVAID CRITICAL AREA

LEGEND

- PHASE 1 - 120 CALENDAR DAYS
- ARRIVALS
- DEPARTURES
- LOW-PROFILE BARRICADES 10' OC DET 1, SHT G2.1
- TEMPORARY RUNWAY CLOSURE LIGHTED 'X'
- HAUL ROUTE CROSSING: STOP SIGNS W/ FLAGGER
- CONTRACTOR'S HAUL ROUTE
- CONTRACTOR'S STAGING & STORAGE AREA
- WILL E. COYOTE AZ U:10:127 (ASM) ARCHAEOLOGICAL SITE
- RUNWAY END SAFETY AREA (CATEGORY I)

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 53003
 M. JARED BASS
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 ARIZONA - U.S.A.

DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 2003_2303-G2-X-PHASE-AA1

Phoenix Area Gateway Airport

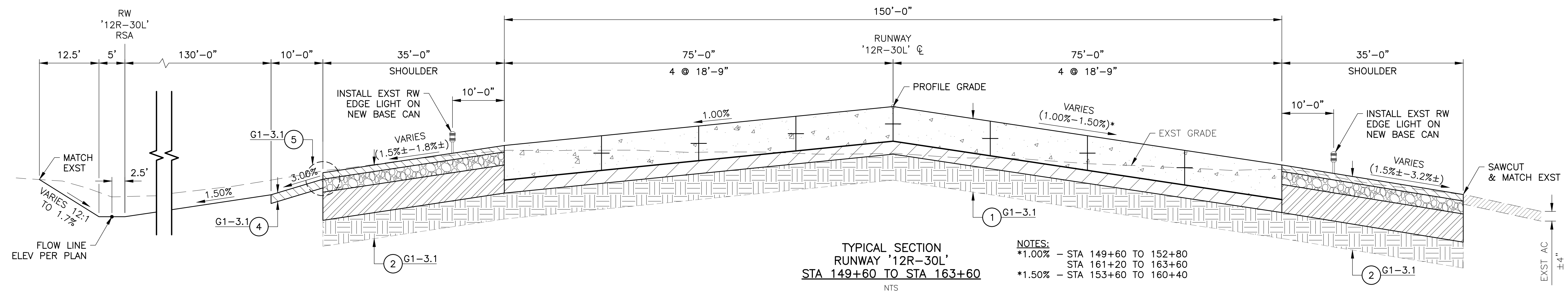
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PHASING
 CONSTRUCTION PHASE 1**

G2-2.1

SHEET NO.
69 OF **211**

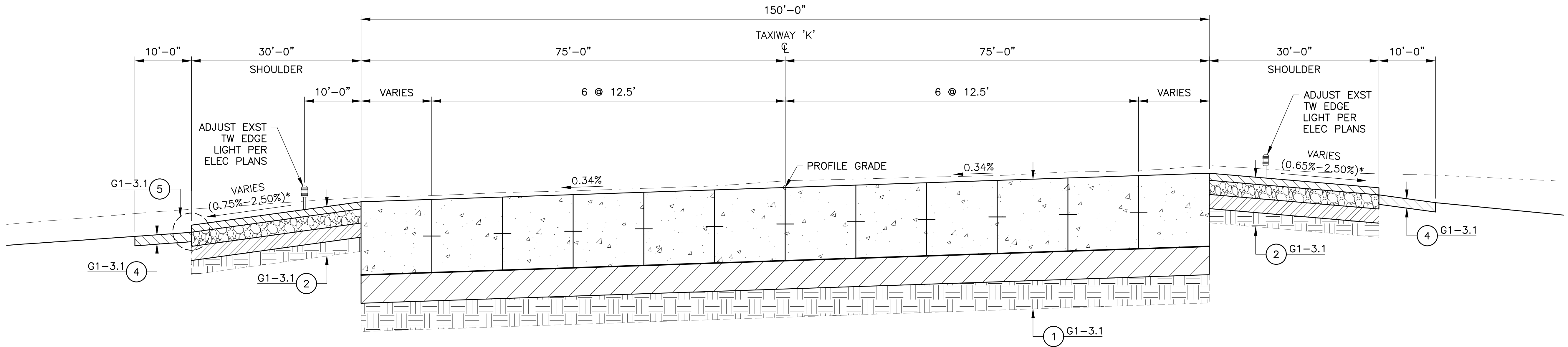


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TYPICAL SECTION
RUNWAY '12R-30L'
STA 149+60 TO STA 163+60
NTS

NOTES:
*1.00% - STA 149+60 TO 152+80
STA 161+20 TO 163+60
*1.50% - STA 153+60 TO 160+40



TYPICAL SECTION
TAXIWAY 'K'
NTS

- GENERAL NOTES**
- CONTRACTOR SHALL ANTICIPATE TREATED SUBGRADE AND/OR CLSM BACKFILL MATERIAL UNDER EXISTING AC SHOULDERS
 - BETWEEN STATIONS 146+84.81 AND 149+60 CONTRACTOR SHALL CONSTRUCT THE TEMPORARY AC PAVEMENT SECTION AS DETAILED ON SHEET G2-3.2

REV	DATE	DESCRIPTION



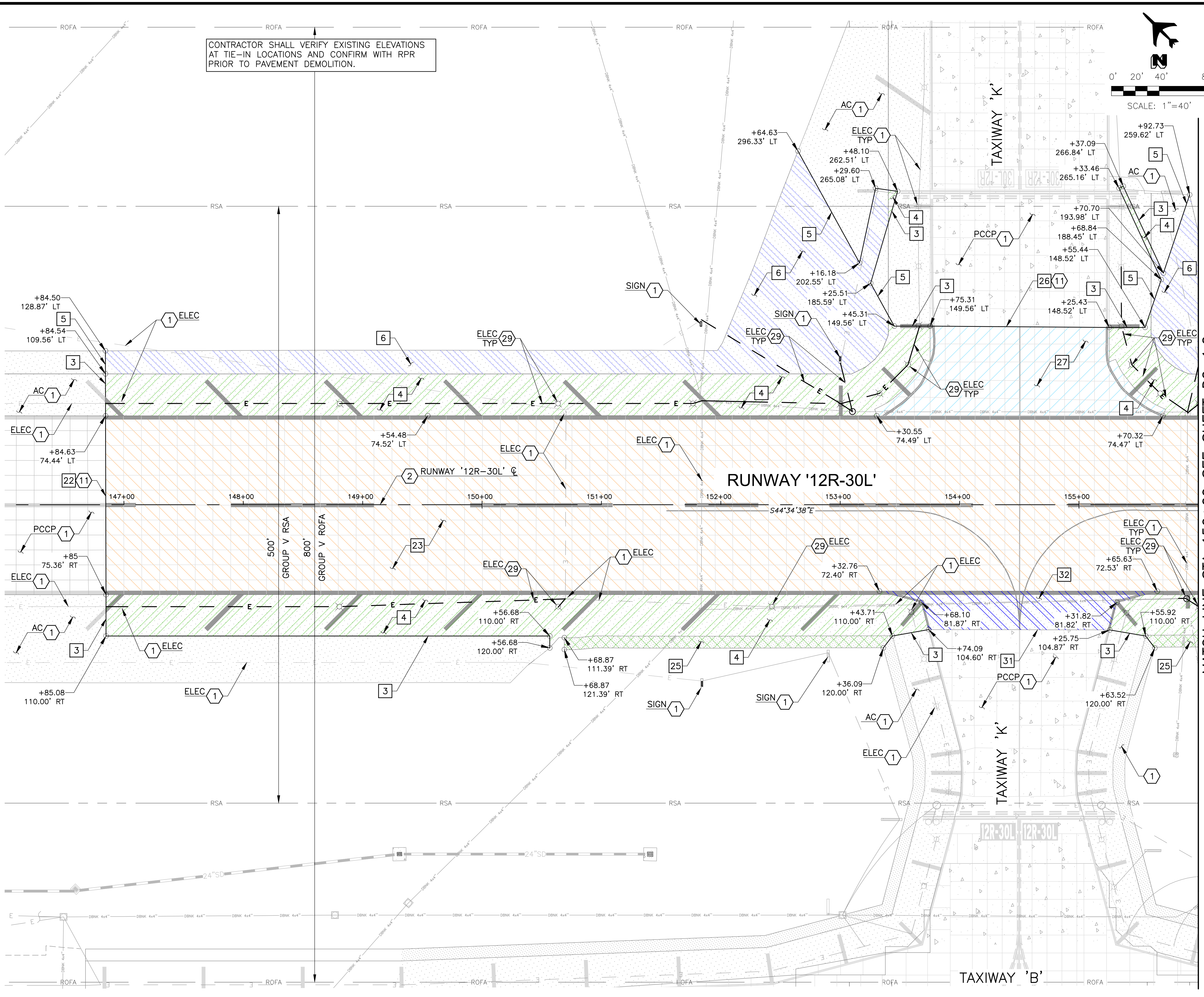
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REVIEWED BY:	MJB/KLS
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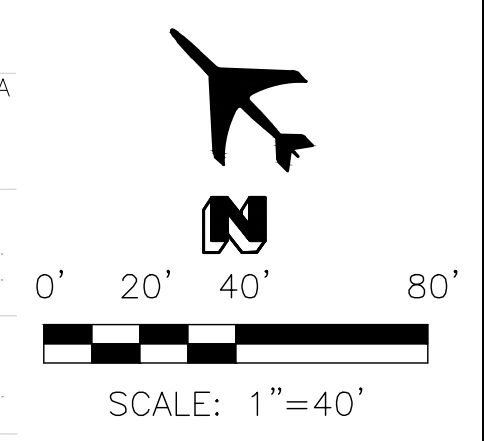
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
TYPICAL SECTIONS**



FILE:J:\2020\1020023.2303 PMG3A RW 12R-30L Reconstruction (Design)\CAD-ALT-1\20023-2303-D2-1-X-DEMO-AA1.dwg DATE:April 26, 2023 TIME:12:11 PM BY:travis woodman



CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.



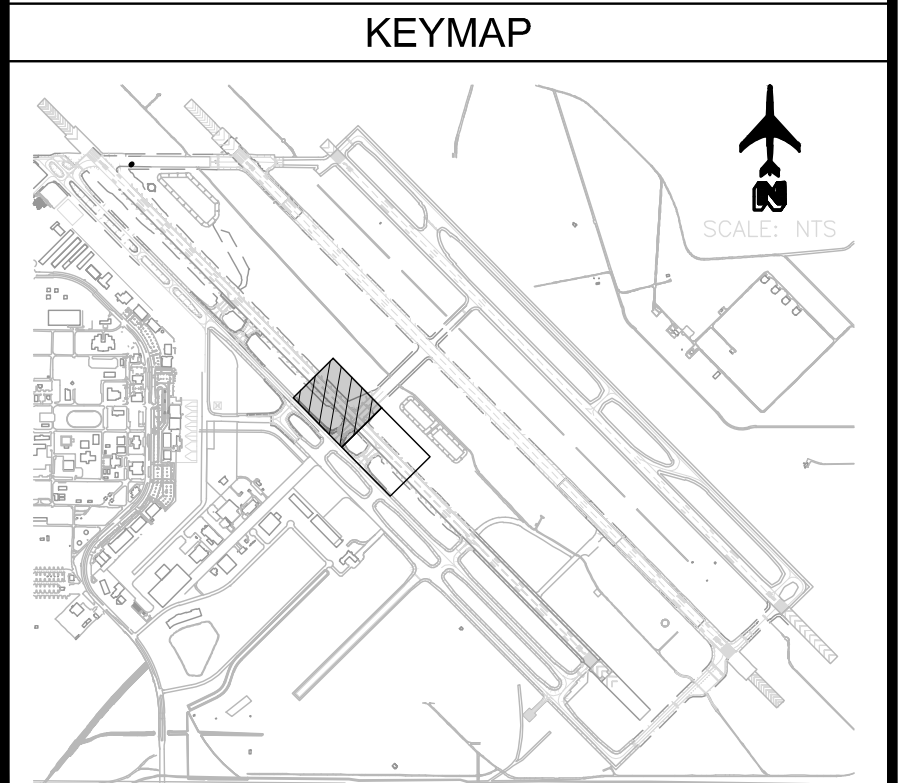
MATCH LINE STA 156+00 SEE SHEET D2-1.2

DEMOLITION NOTES	
3	SAWCUT AC PAVEMENT (± 4" DEPTH) 760 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH) 6,054 SY
5	SAWCUT AC PAVEMENT (2" TO 3" DEPTH) 425 LF
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH) 3,389 SY
22	SAWCUT PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP) 300 LF
23	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP) 15,165 SY
25	REMOVE SHOULDER STABILIZATION (± 4" FULL DEPTH) 347 SY
26	SAWCUT PCCP (9" TO 11" FULL DEPTH) 300 LF
27	REMOVE PCCP (9" TO 11" FULL DEPTH) 1,489 SY
31	SAWCUT AC PAVEMENT (14" DEPTH) 150 LF
32	REMOVE AC PAVEMENT (14" DEPTH) 608 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
11	DOUBLE SAWCUT DET 7 SHT G1-3.1
29	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E2-2.1 TO E2-2.2

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP)
	REMOVE PCCP (9" TO 11" FULL DEPTH)
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE AC PAVEMENT (14" DEPTH)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)
	REMOVE SHOULDER STABILIZATION (± 4" FULL DEPTH)

NOTE: IF ADD-ALT-2 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT D3-1.6



REV	DATE	DESCRIPTION

DIBBLE

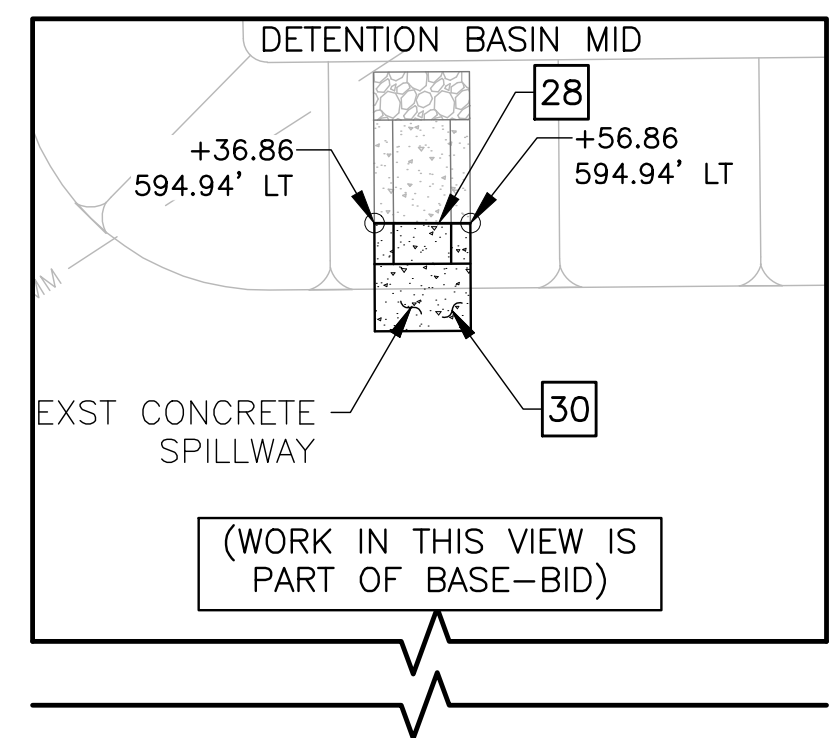
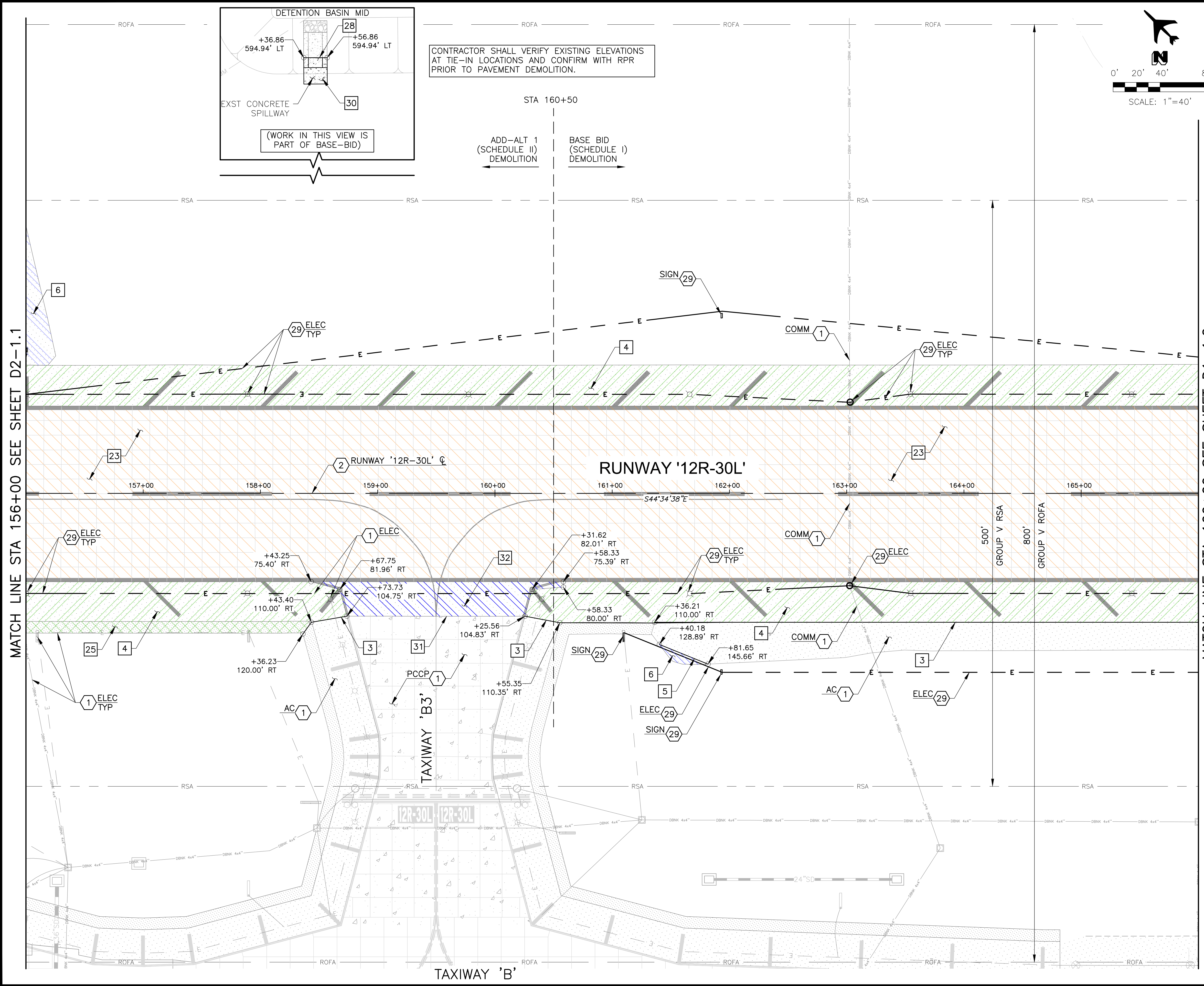
Professional Engineer
 53003
 M. JARED BASS
 License No. 041762-2
 ARIZONA, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D2-1_X-DEMO-AA1

**RUNWAY 12R-30L RECONSTRUCTION
 ADD ALT 1
 (SCH II) DEMOLITION PLAN
 STA 146+00 TO STA 156+00**

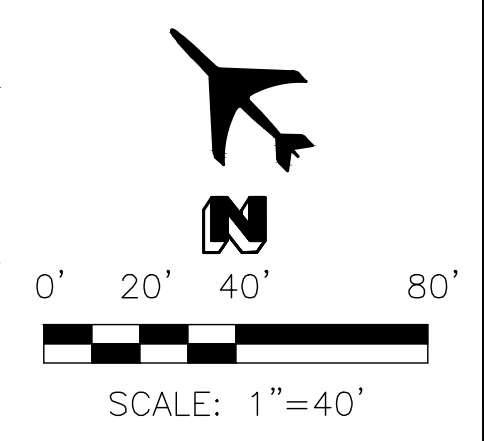


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CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.

STA 160+50
 ADD-ALT 1 (SCHEDULE II) DEMOLITION
 BASE BID (SCHEDULE I) DEMOLITION



MATCH LINE STA 156+00 SEE SHEET D2-1.1

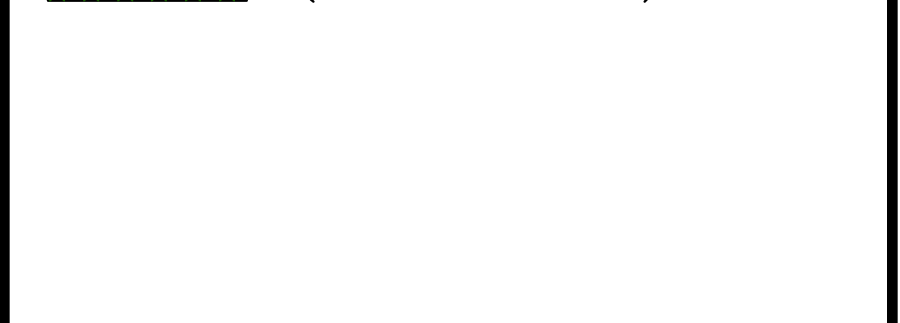
MATCH LINE STA 166+00 SEE SHEET D1-1.2

DEMOLITION NOTES (SCH I)	
3	SAWCUT AC PAVEMENT (± 4" DEPTH) 575 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH) 4,308 SY
5	SAWCUT AC PAVEMENT (2" TO 3" DEPTH) 45 LF
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH) 26 SY
23	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP) 9,160 SY
28	SAWCUT CONCRETE APRON/SPILLWAY (3" DEPTH) 20 LF
30	REMOVE CONCRETE APRON/SPILLWAY (3" DEPTH) 50 SY

DEMOLITION NOTES (SCH II)	
3	SAWCUT AC PAVEMENT (± 4" DEPTH) 31 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH) 2,745 SY
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH) 179 SY
23	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP) 7,501 SY
25	REMOVE SHOULDER STABILIZATION (± 4" FULL DEPTH) 267 LF
31	SAWCUT AC PAVEMENT (14" DEPTH) 150 LF
32	REMOVE AC PAVEMENT (14" DEPTH) 546 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
29	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E2-2.1 TO E2-2.2

LEGEND	
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	REMOVE PAVEMENT SECTION (± 9" PCCP, 2" AC, 7" PCCP)
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE SHOULDER STABILIZATION (± 4" FULL DEPTH)



REV	DATE	DESCRIPTION

DIBBLE

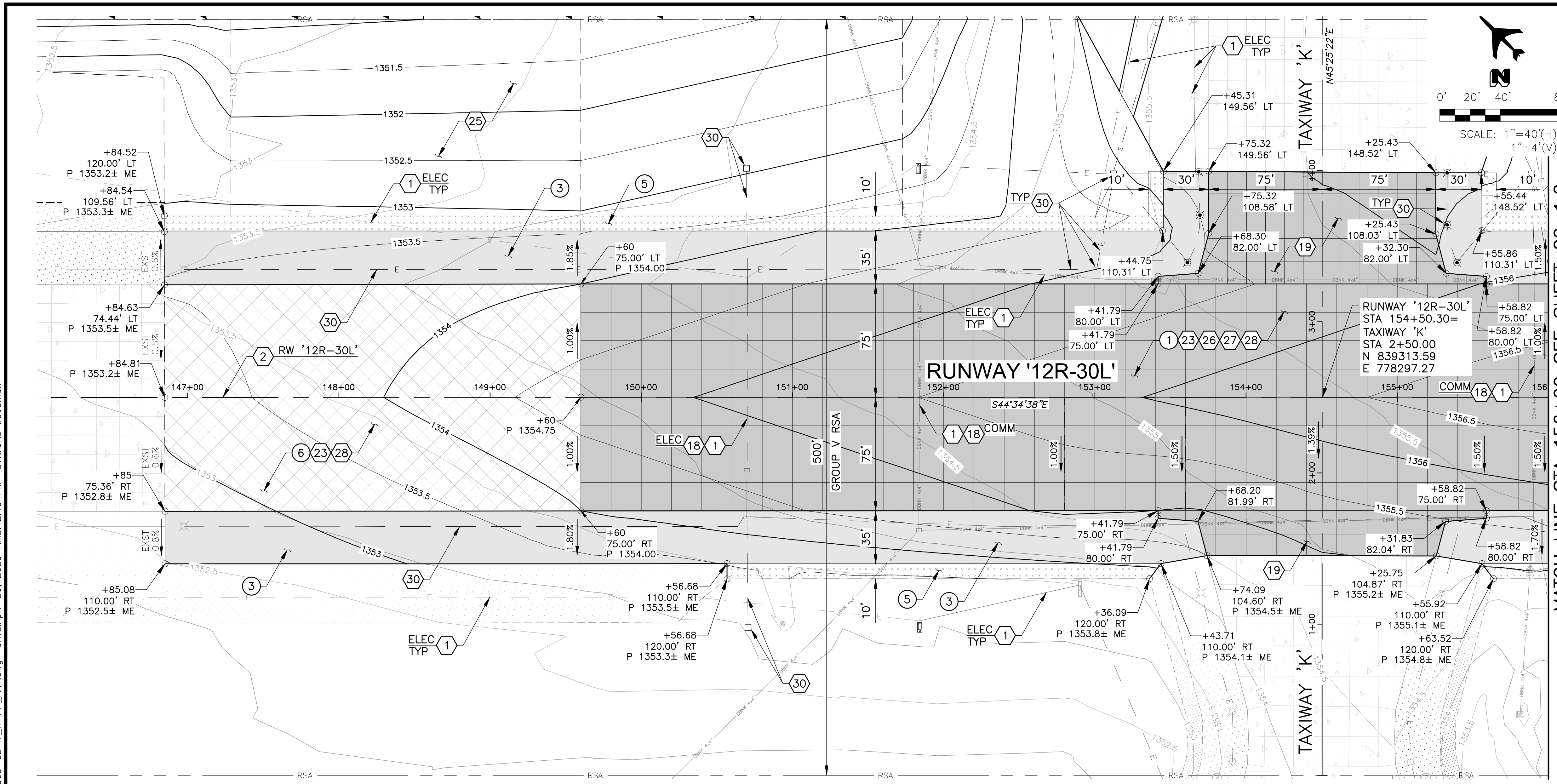
Professional Engineer
 53003 M. JARED BASS
 License No. 04176272
 ARIZONA U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D2-1-X-DEMO-AA1

**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) DEMOLITION PLAN
 STA 156+00 TO STA 166+00**



FILE:J:\2020\1020023\2303 PNGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-1\20023-2303-C2-1-X-PP-AA1.dwg DATE:April 26, 2023 TIME:12:13 PM BY:trovis woodman



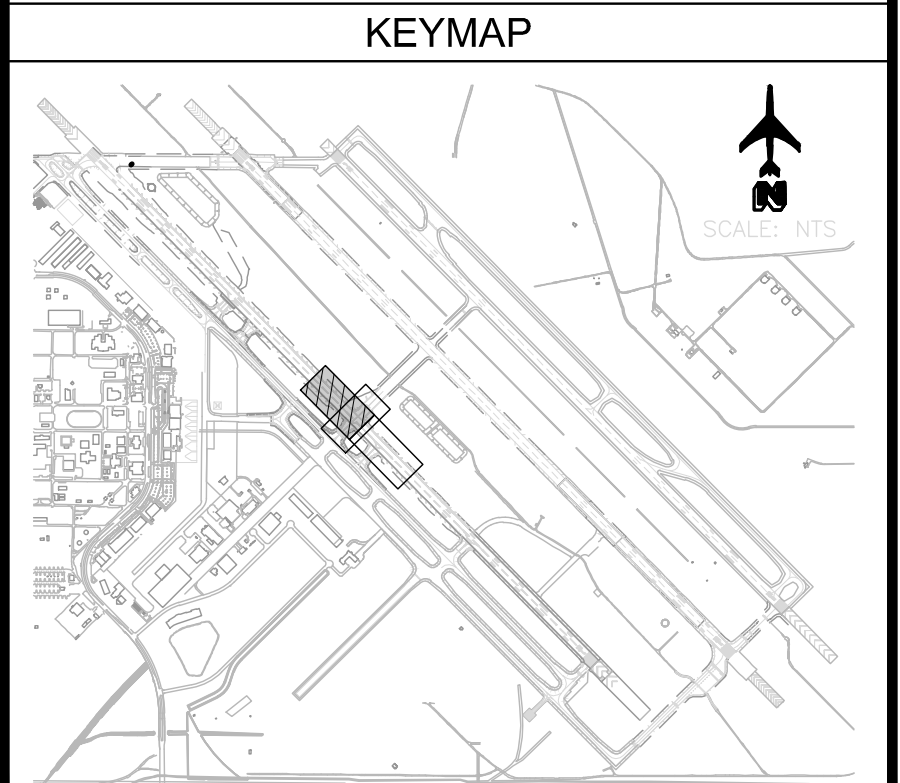
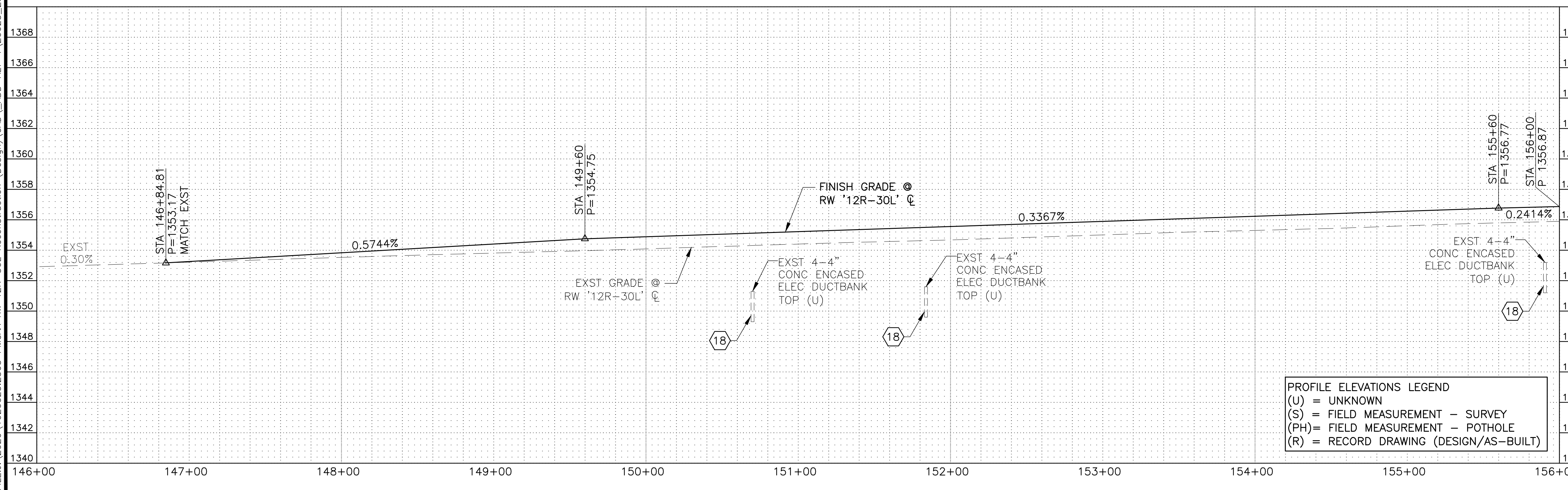
MATCH LINE STA 156+00 SEE SHEET C2-1.2

CONSTRUCTION NOTES	
1	RUNWAY PCCP SECTION 1, SHT G1-3.1 10,667 SY
3	RUNWAY AC SHOULDER PAVEMENT SECTION 2, SHT G1-3.1 6,061 SY
5	SHOULDER STABILIZATION SECTION 4, SHT G1-3.1 1,208 SY
6	RUNWAY TRANSITION AC PAVEMENT SECTION 3, SHT G1-3.1 4,583 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK
19	REFER TO SHEET C2-1.4 FOR TW K PAVING PLAN & PROFILE
23	REFER TO DEMOLITION PLANS SHTS D2-1.1 TO D2-1.2
25	REFER TO GRADING AND DRAINAGE PLANS SHTS C2-2.1 TO C2-2.2
26	REFER TO PAVEMENT ELEVATION PLANS SHTS C2-3.1 TO C2-3.2
27	REFER TO PCCP JOINT LAYOUT PLANS SHTS C2-4.1 TO C2-4.3
28	REFER TO PAVEMENT MARKING PLANS SHTS C2-5.1 TO C2-5.2
30	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E2-3.1 TO E2-3.2

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECTION 1, SHT G1-3.1
	RUNWAY TRANSITION AC PAVEMENT SECTION 3, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECTION 2, SHT G1-3.1
	SHOULDER STABILIZATION SECTION 4, SHT G1-3.1

NOTE: IF ADD-ALT-2 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C3-1.6



PROFILE ELEVATIONS LEGEND	
(U)	= UNKNOWN
(S)	= FIELD MEASUREMENT - SURVEY
(PH)	= FIELD MEASUREMENT - POTHOLE
(R)	= RECORD DRAWING (DESIGN/AS-BUILT)

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 Certificate No. 53003
 M. JARED BASS
 License Exp. 04/28/24
 ARIZONA, U.S.A.

Phoenix-Mesa Gateway Airport

DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MUB/KLS
 FILE NAME: 2003_2303-C2-1_X-PP-AA1

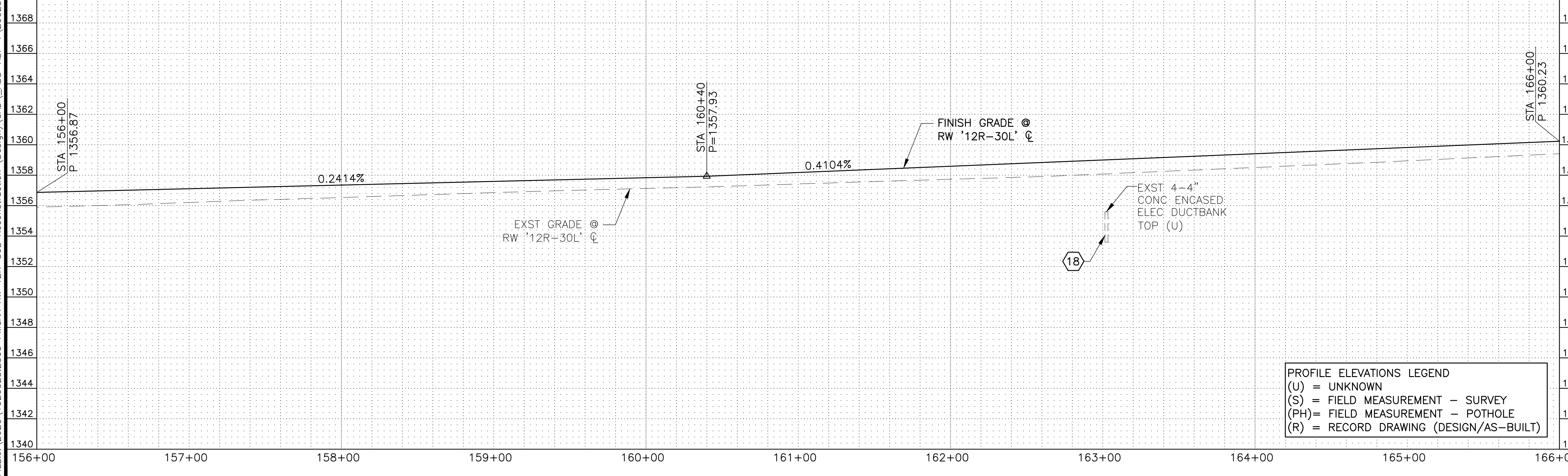
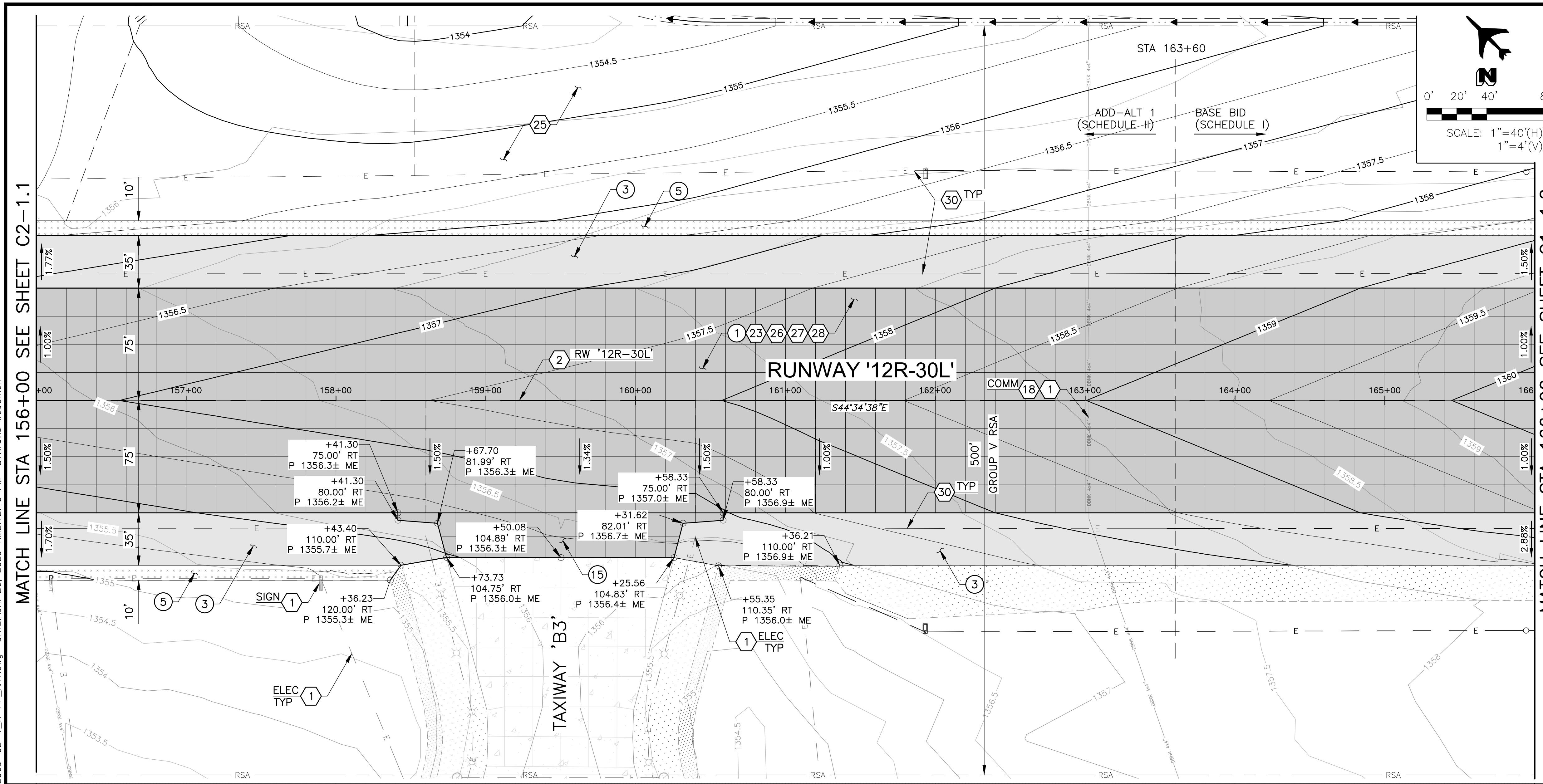
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH III) PAVING PLAN & PROFILE
 STA 146+00 TO STA 156+00**

C2-1.1

SHEET NO.
74 OF **211**



FILE: \\2020\1020023\2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-1\20023_2303-C2-1-X-PP-AA1.dwg DATE: April 26, 2023 TIME: 12:13 PM BY: ktrovis woodman



PROFILE ELEVATIONS LEGEND
 (U) = UNKNOWN
 (S) = FIELD MEASUREMENT - SURVEY
 (PH) = FIELD MEASUREMENT - POTHOLE
 (R) = RECORD DRAWING (DESIGN/AS-BUILT)

CONSTRUCTION NOTES (SCH I)

1	RUNWAY PCCP SECT 1, SHT G1-3.1	4,000 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1	1,867 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1	267 SY

CONSTRUCTION NOTES (SCH II)

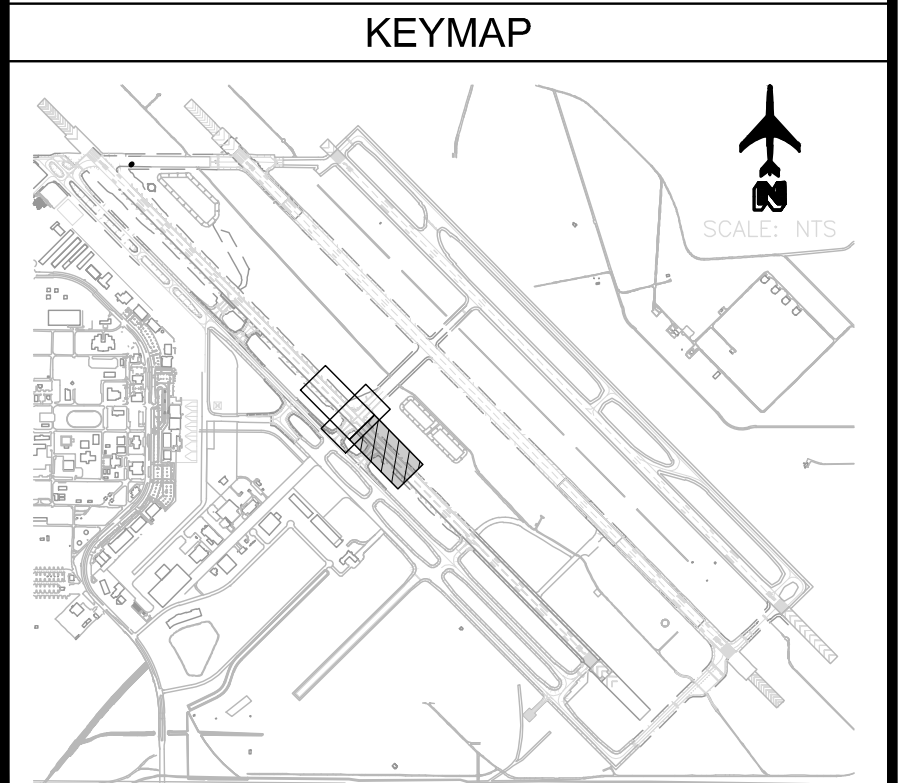
1	RUNWAY PCCP SECT 1, SHT G1-3.1	12,667 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1	5,250 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1	1,110 SY
15	TAXIWAY PCCP SECT 1, SHT G1-3.1	563 SY

REFERENCE NOTES

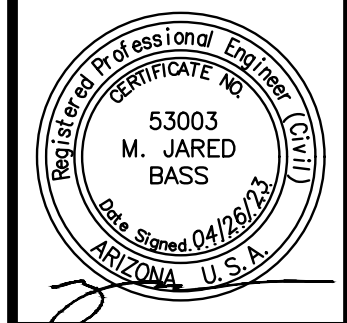
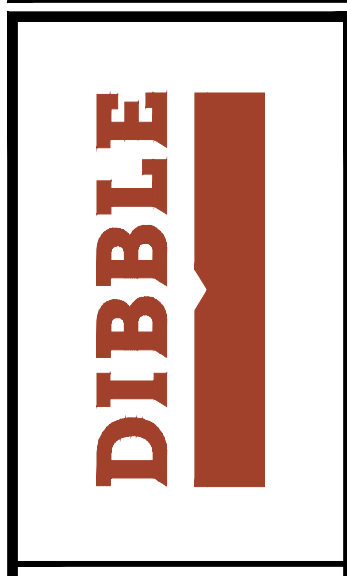
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK
23	REFER TO DEMOLITION PLANS SHTS D2-1.1 TO D2-1.2
25	REFER TO GRADING AND DRAINAGE PLANS SHTS C2-2.1 TO C2-2.2
26	REFER TO PAVEMENT ELEVATION PLANS SHTS C2-3.1 TO C2-3.2
27	REFER TO PCCP JOINT LAYOUT PLANS SHTS C2-4.1 TO C2-4.3
28	REFER TO PAVEMENT MARKING PLANS SHTS C2-5.1 TO C2-5.2
30	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E2-3.1 TO E2-3.2

LEGEND

	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



REV	DATE	DESCRIPTION



DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MUB/KLS
 FILE NAME: 20023_2303-C2-1_X-PP-AA1

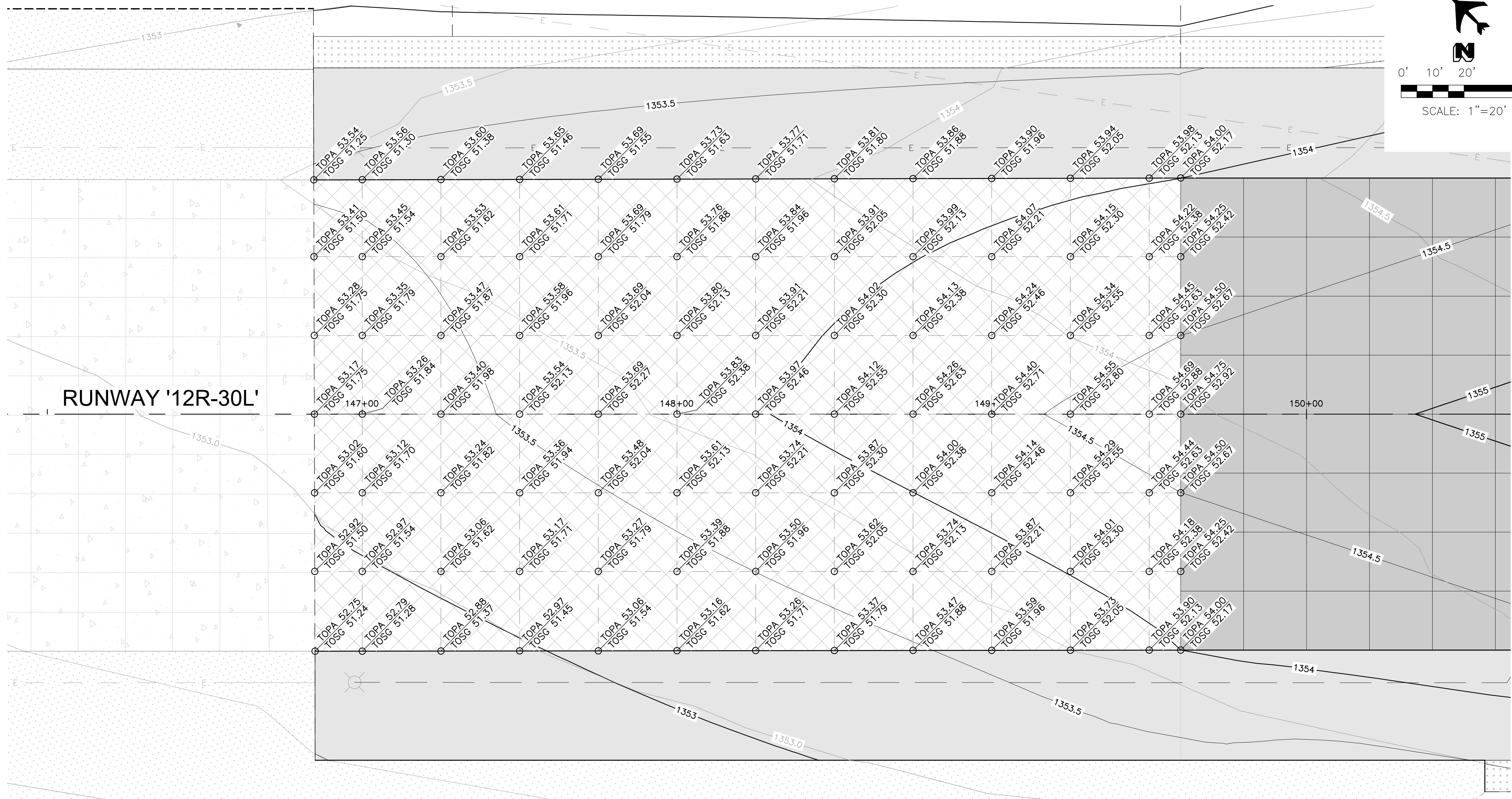


**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PAVING PLAN & PROFILE
 STA 156+00 TO STA 166+00**

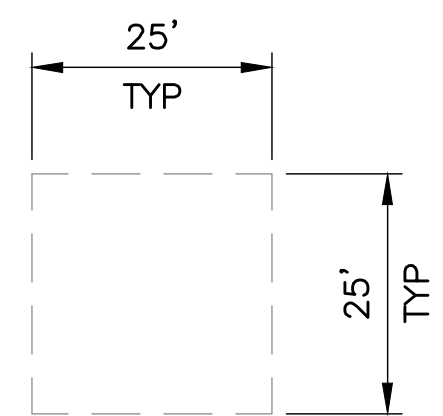
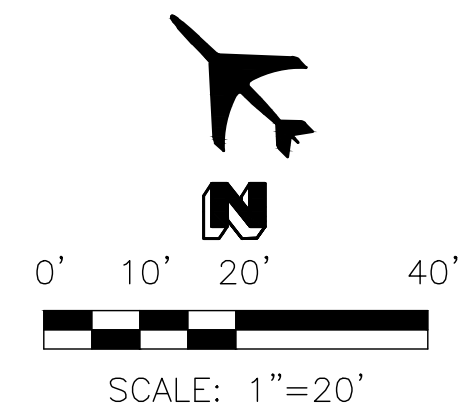
C2-1.2
 SHEET NO.
 75 OF 211



FILE:J:\2020\2303\2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD\ADD-ALT-1\20023_2303-C2-1_X-PP-AA1.dwg DATE:April 26, 2023 TIME:12:14 PM BY:trovis woodman



RUNWAY '12R-30L'

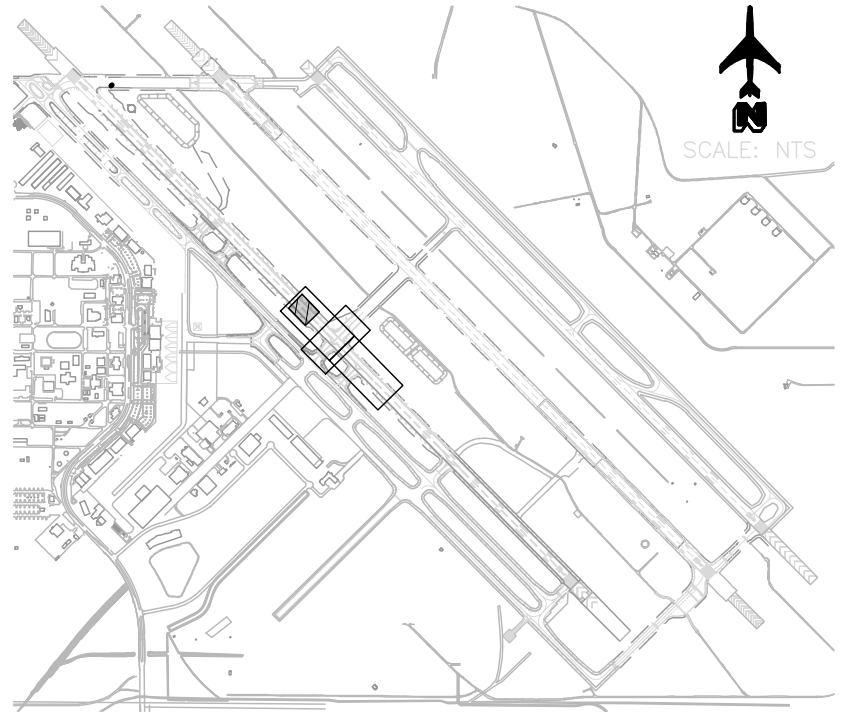


NOTE:
REFER TO SHT G2-3.2 FOR
TRANSITION PROFILE

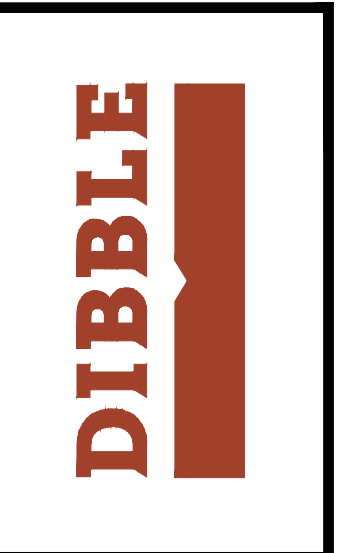
LEGEND

- TOPA: TOP OF PROPOSED ASPHALT -1300
TOSG: TOP OF LTSG -1300
- EXST PCCP
- EXST AC PAVEMENT
- EXST SHOULDER STABILIZATION
- RUNWAY PCCP
SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER PAVEMENT
SECT 2, SHT G1-3.1
- SHOULDER STABILIZATION
SECT 4, SHT G1-3.1
- RUNWAY TRANSITION AC PAVEMENT
SECT 3, SHT G1-3.1

KEYMAP



REV	DATE	DESCRIPTION



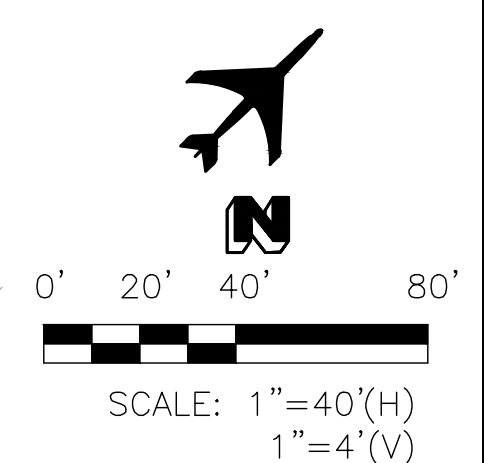
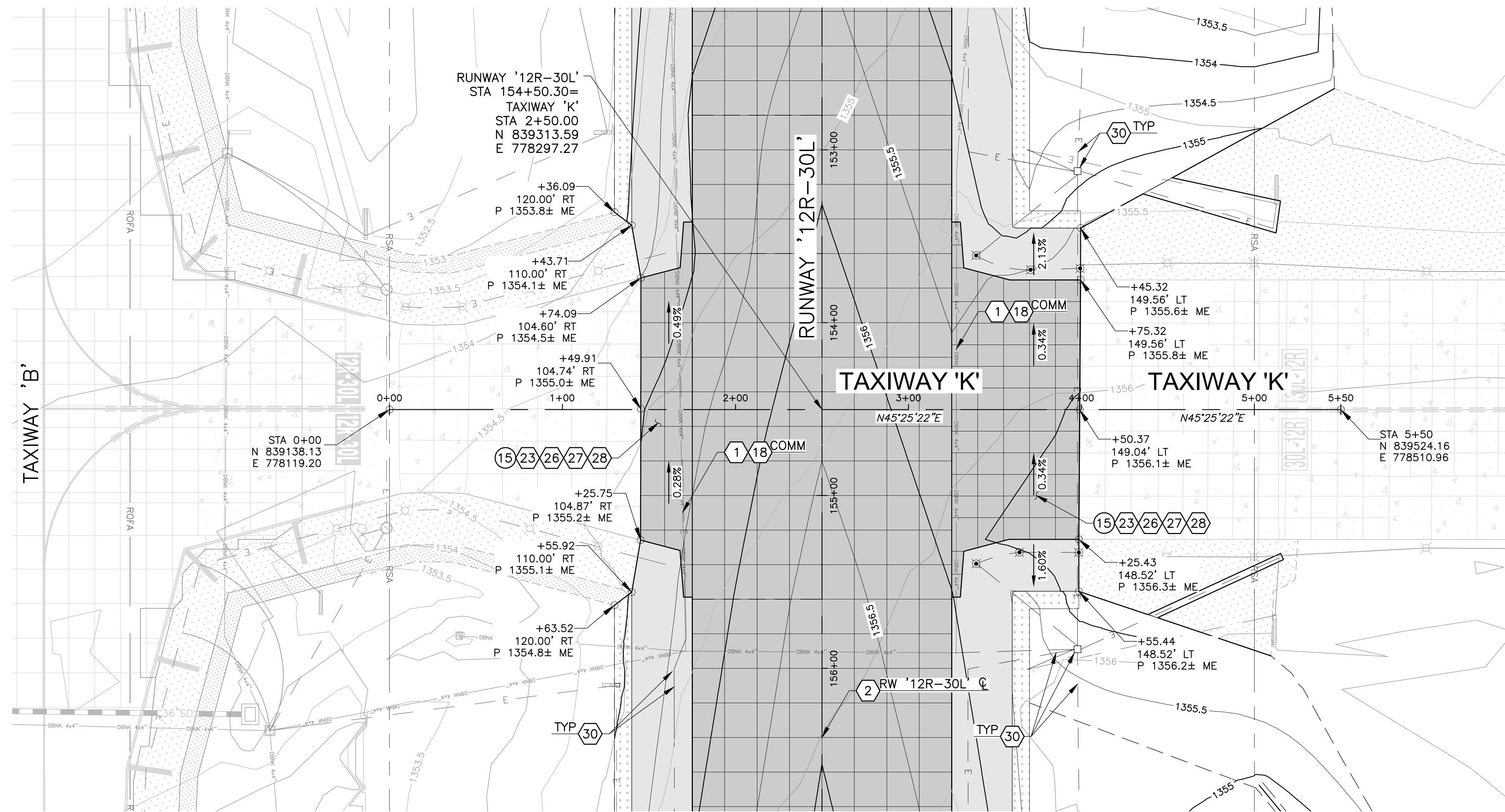
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	2003_2303-C2-1_X-PP-AA1



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) ASPHALT TRANSITION
PAVEMENT ELEVATIONS**

C2-1.3
SHEET NO.
76 OF **211**

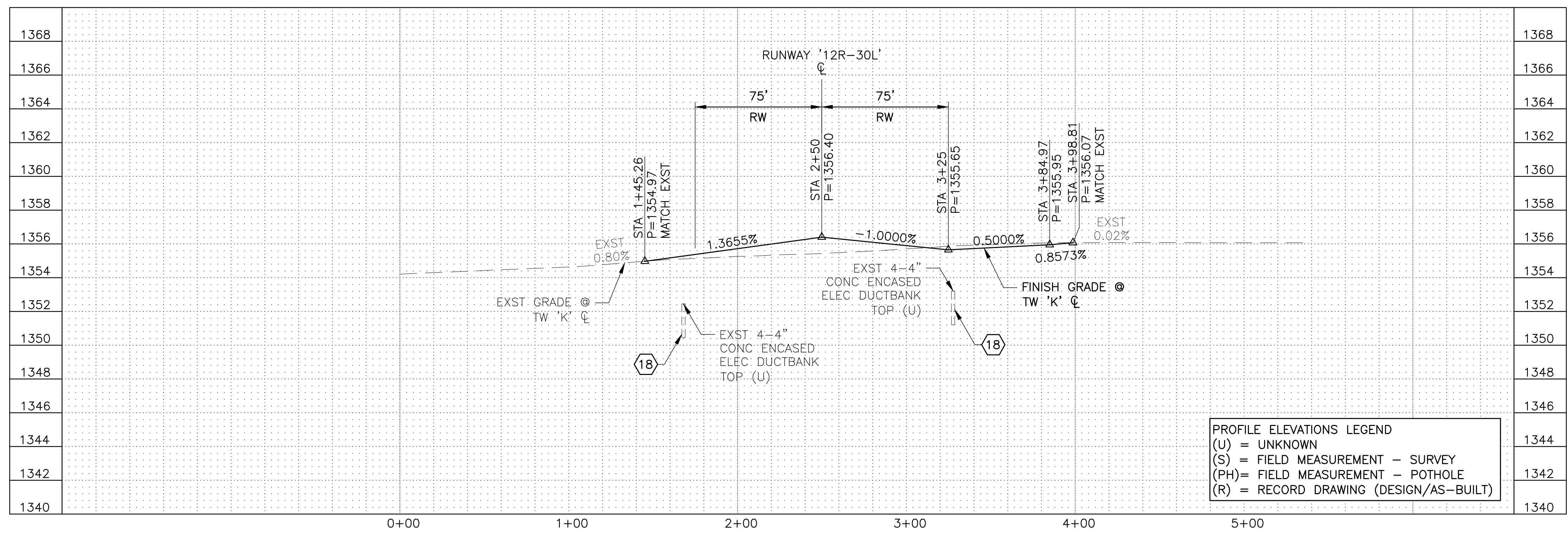
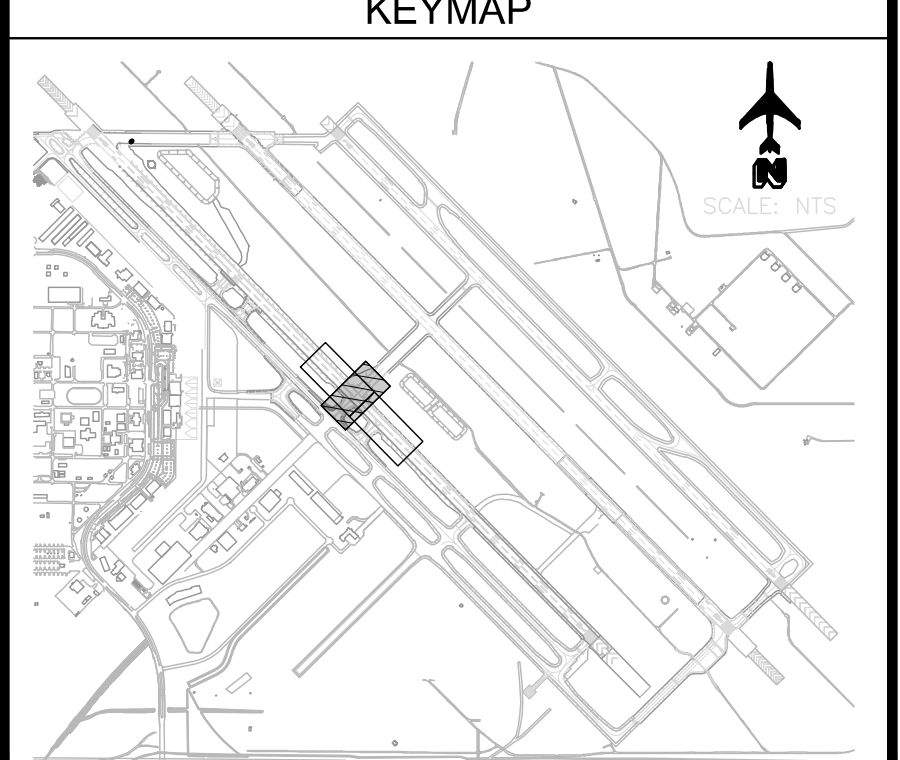
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CONSTRUCTION NOTES	
15	TAXIWAY PCCP SECT 1, SHT G1-3.1 1,862 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK
23	REFER TO DEMOLITION PLANS SHTS D2-1.1 TO D2-1.2
26	REFER TO PAVEMENT ELEVATION PLANS SHTS C2-3.1 TO C2-3.2
27	REFER TO PCCP JOINT LAYOUT PLANS SHTS C2-4.1 TO C2-4.3
28	REFER TO PAVEMENT MARKING PLANS SHTS C2-5.1 TO C2-5.2
30	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E2-3.1 TO E2-3.2

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



PROFILE ELEVATIONS LEGEND	
(U)	= UNKNOWN
(S)	= FIELD MEASUREMENT - SURVEY
(PH)	= FIELD MEASUREMENT - POT HOLE
(R)	= RECORD DRAWING (DESIGN/AS-BUILT)

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
53003
M. JARED BASS
Arizona, U.S.A.

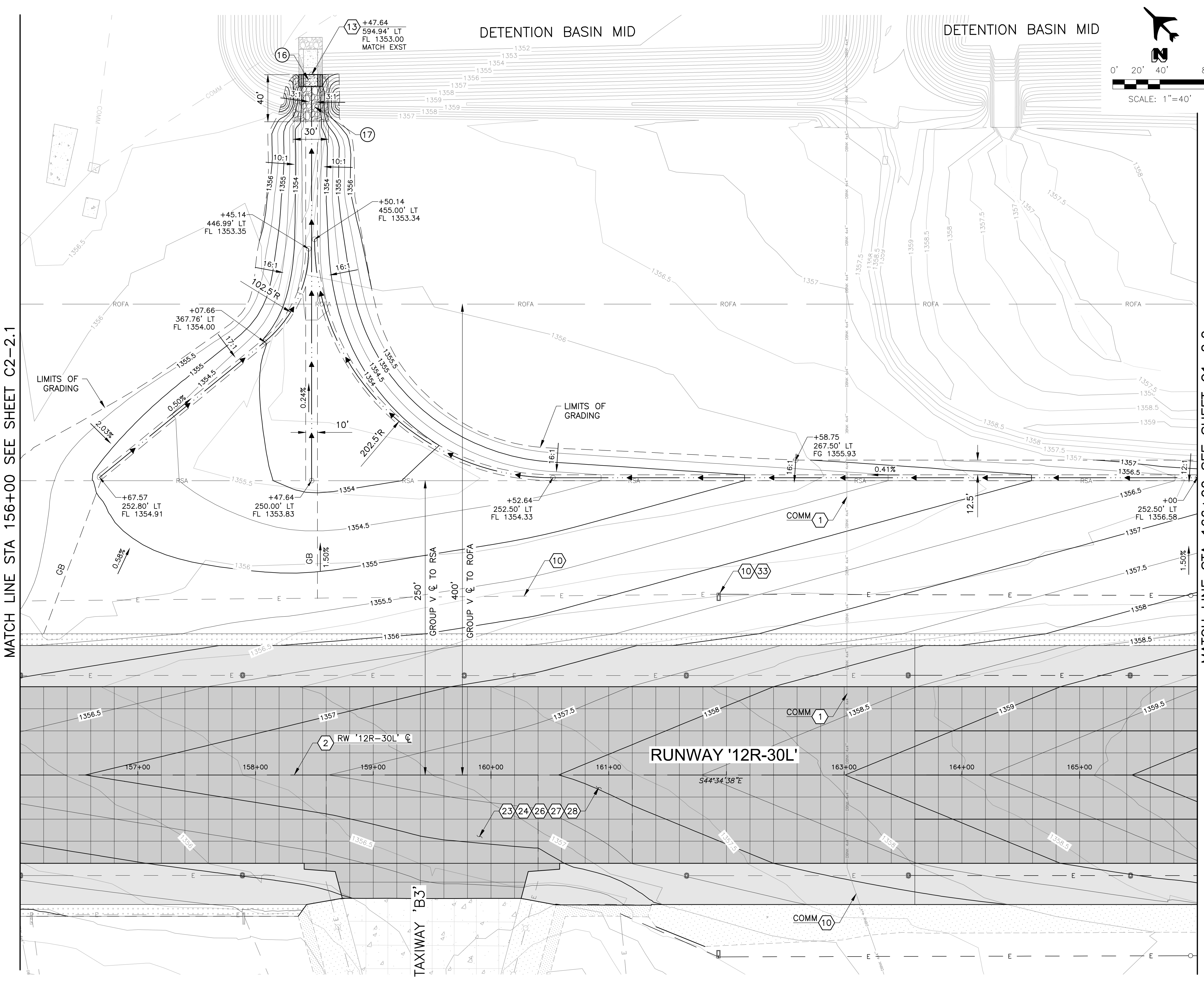
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C2-1_X-TW-K-PP-AA1



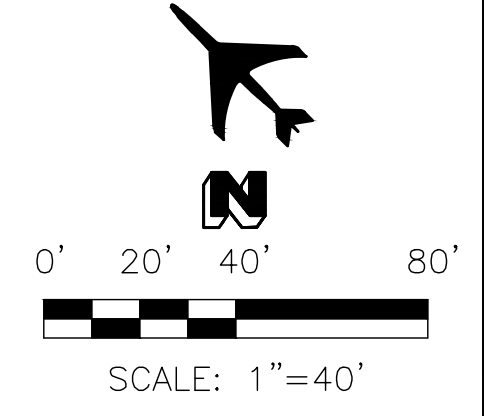
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) PAVING PLAN & PROFILE
TAXIWAY 'K'**



FILE:\2020\1020023.2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-1\20023_2303-C2-2_X-GRAD_AA1.dwg DATE: April 26, 2023 TIME: 12:17 PM BY: trovis woodman



- CONST NOTES (ADD ALT 1 - SCH II) ○
- 16 CONCRETE SPILLWAY
DET 6, SHT G1-3.1 1 LS
 - 17 RIP RAP WITH FILTER FABRIC,
D50=9" 112 SY



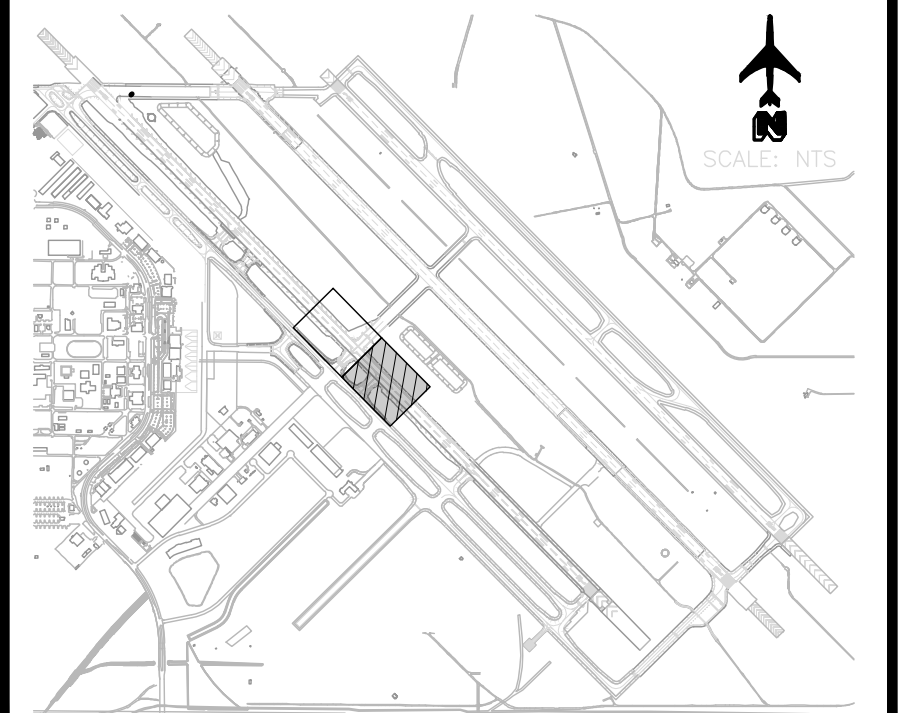
REFERENCE NOTES

- 2 REFER TO PROJECT SITE PLAN
SHT G1-1.3
- 10 REFER TO ELECTRICAL INSTALLATION PLAN
SHTS E1-3.1 TO E1-3.7
- 13 CONTRACTOR TO VERIFY 'MATCH
EXISTING' ELEVATIONS PRIOR TO ANY
DEMO
- 23 REFER TO DEMOLITION PLANS
SHTS D2-1.1 TO D2-1.2
- 24 REFER TO PAVING PLAN AND PROFILE
SHTS C2-1.1 TO C2-1.2
- 26 REFER TO PAVEMENT ELEVATION PLANS
SHTS C2-3.1 TO C2-3.2
- 27 REFER TO PCCP JOINT LAYOUT PLANS
SHTS C2-4.1 TO C2-4.3
- 28 REFER TO PAVEMENT MARKING PLANS
SHTS C2-5.1 TO C2-5.2
- 33 SEE DET 8, SHT G1-3.2 FOR GRADING
AT SIGN BASE

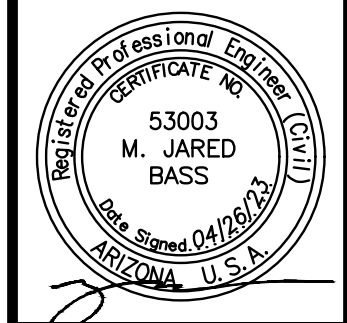
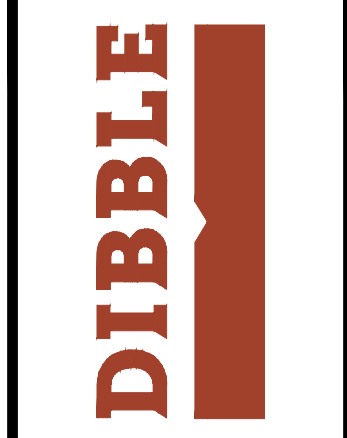
LEGEND

- EXST PCCP
- EXST AC PAVEMENT
- EXST SHOULDER STABILIZATION
- RUNWAY PCCP
SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER
PAVEMENT
SECT 2, SHT G1-3.1
- SHOULDER STABILIZATION
SECT 4, SHT G1-3.1

KEYMAP



REV	DATE	DESCRIPTION



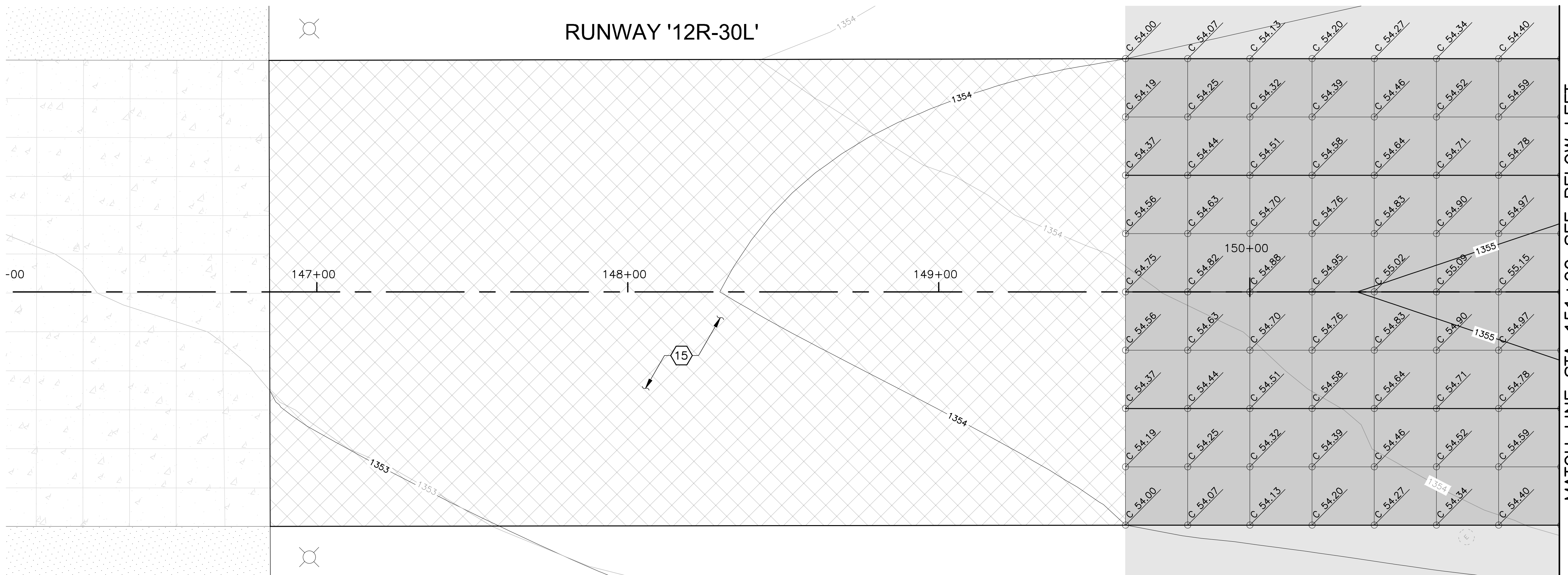
DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 20023_2303-C2-2_X-GRAD_AA1



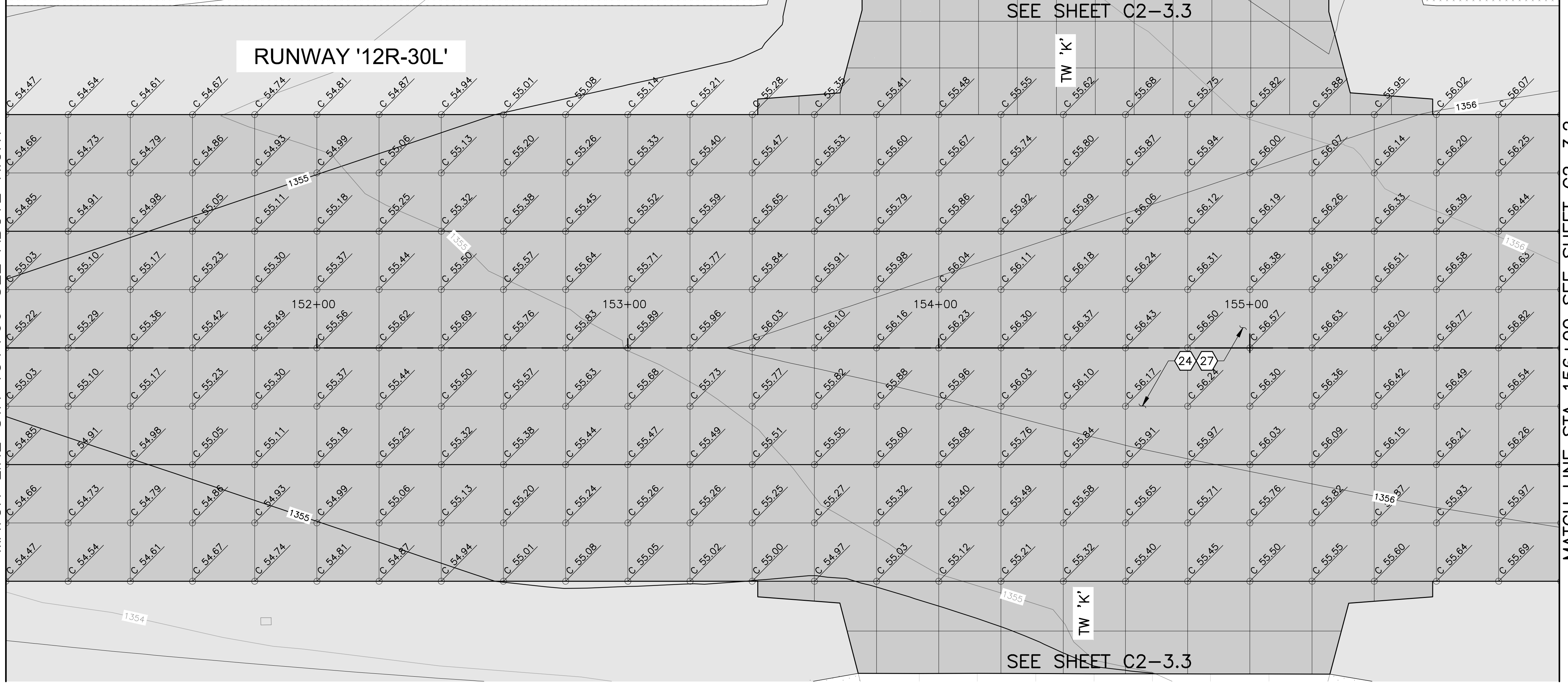
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) GRADING & DRAINAGE PLAN
 STA 156+00 TO STA 166+00**



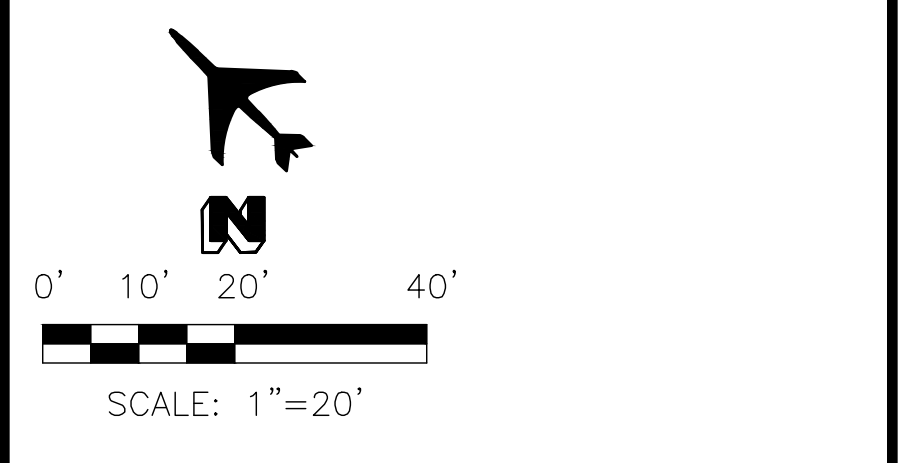
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MATCH LINE STA 151+00 SEE BELOW LEFT



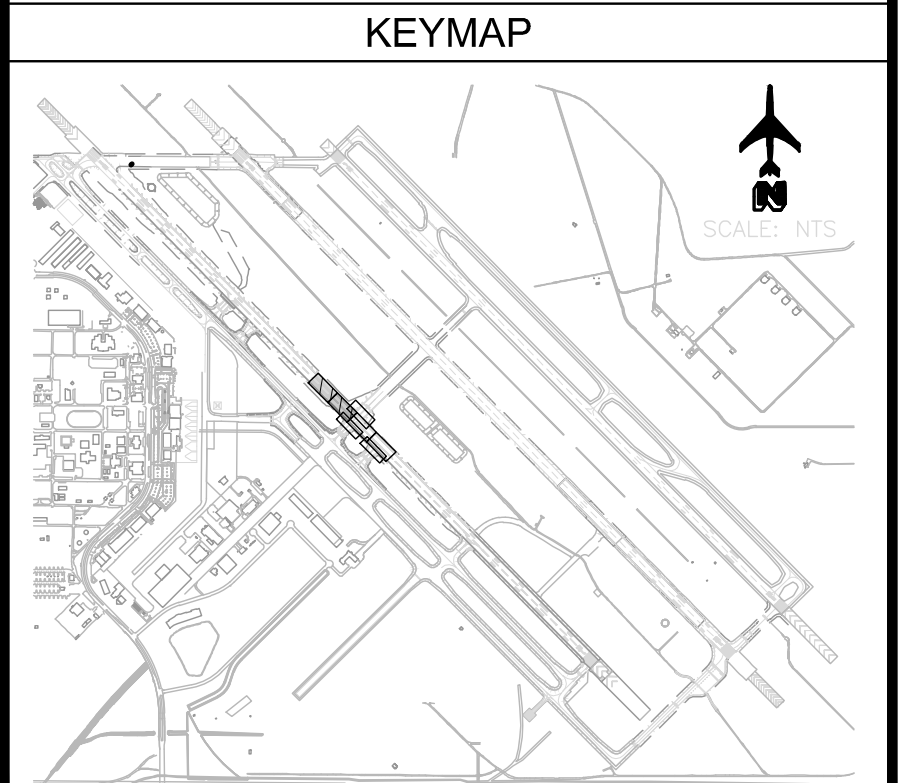
MATCH LINE STA 156+00 SEE SHEET C2-3.2



- REFERENCE NOTES**
- 15 REFER TO SHEET C2-1.3 FOR ASPHALT TRANSITION PAVEMENT ELEVATIONS
 - 24 REFER TO PAVING PLAN AND PROFILE SHTS C2-1.1 TO C2-1.2
 - 27 REFER TO PCJP JOINT LAYOUT PLANS SHTS C2-4.1 TO C2-4.3

- LEGEND**
- C XX.XX PROPOSED SPOT ELEV
 - ⊙ PCCP JOINT (+1300)
 - ME
 - XX.XX EXISTING SPOT ELEV
 - ⊙ PCCP JOINT (+1300)

NOTE: IF ADD-ALT-2 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C3-3.6



REV	DATE	DESCRIPTION



DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 2002_2303-C2-3_X-ELEV_A1



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PAVEMENT ELEVATION PLAN
 STA 146+00 TO STA 156+00**



C2-3.1
 SHEET NO.
 80 OF 211

FILE: \\2020\1020023\2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-1\2020023_2303-C2-3_X-ELEV_Alt1.dwg DATE: April 26, 2023 TIME: 12:18 PM BY: travis_woodman

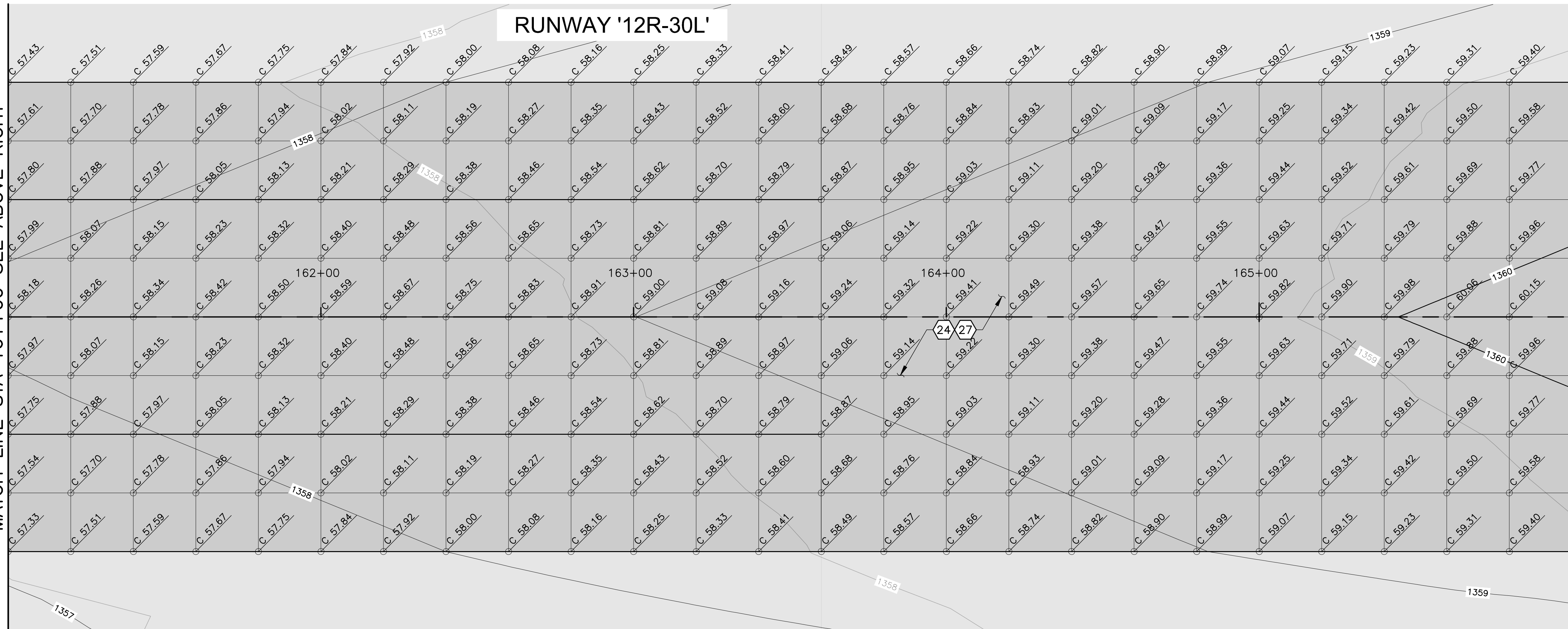
MATCH LINE STA 156+00 SEE SHEET C2-3.1



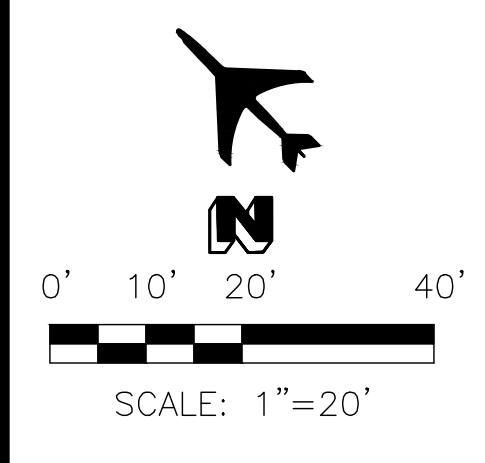
SEE SHEET C2-3.3

MATCH LINE STA 161+00 SEE BELOW LEFT

MATCH LINE STA 161+00 SEE ABOVE RIGHT

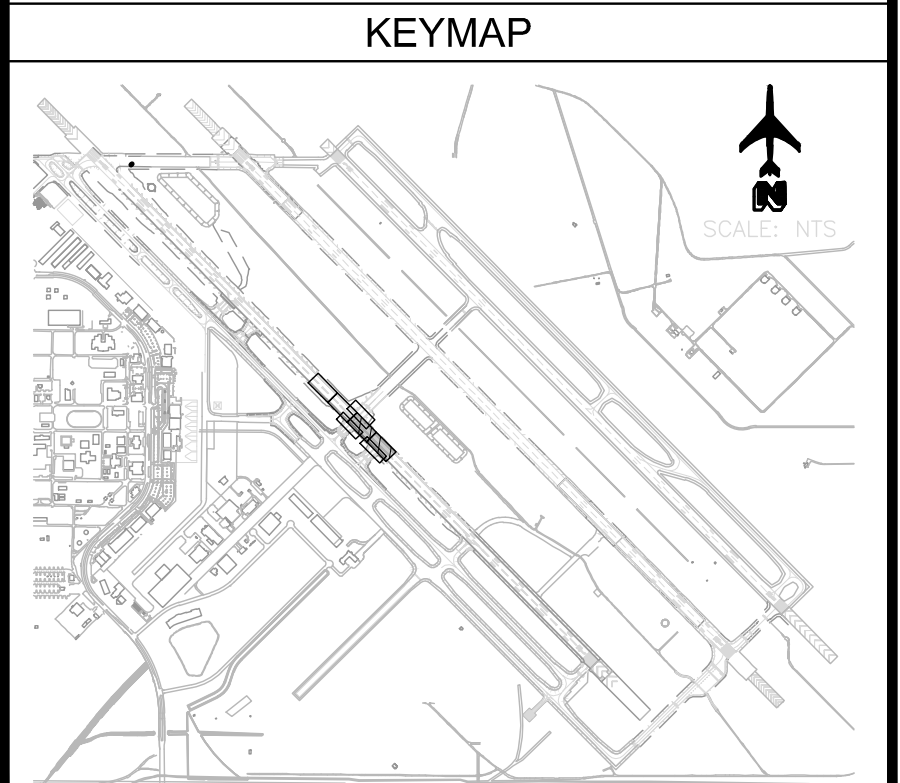


MATCH LINE STA 166+00 SEE SHEET C1-3.2



- REFERENCE NOTES**
- 24 REFER TO PAVING PLAN AND PROFILE SHTS C2-1.1 TO C2-1.2
 - 27 REFER TO PCCP JOINT LAYOUT PLANS SHTS C2-4.1 TO C2-4.3

- LEGEND**
- PROPOSED SPOT ELEV (+1300)
 - EXISTING SPOT ELEV (+1300)
 - PCCP JOINT (+1300)
 - PCCP JOINT (+1300)



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DATE: 4/26/2023
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 FILE NAME: 2002_2303-C2-3_X-ELEV_A1

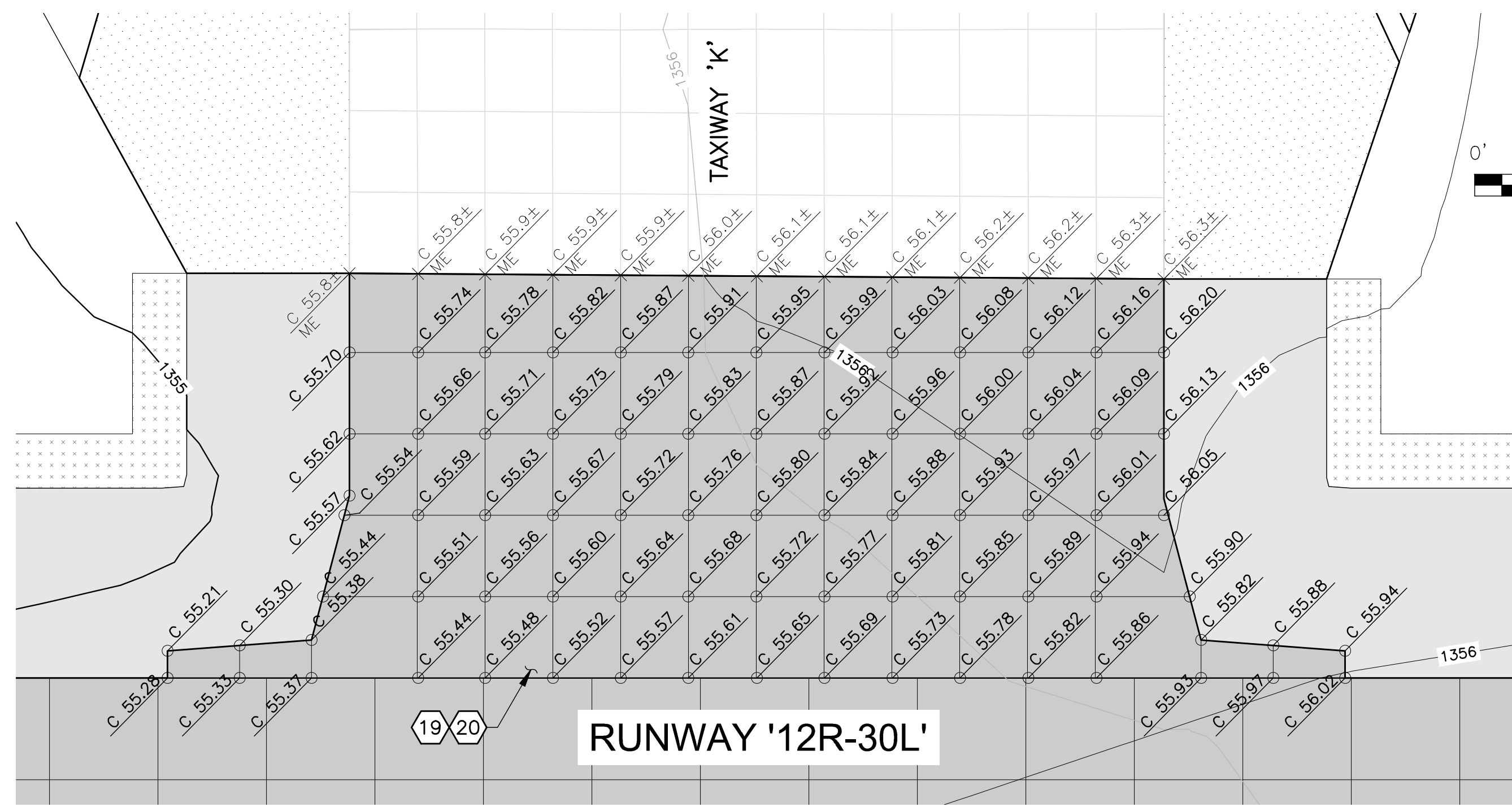


**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PAVEMENT ELEVATION PLAN
 STA 156+00 TO STA 166+00**



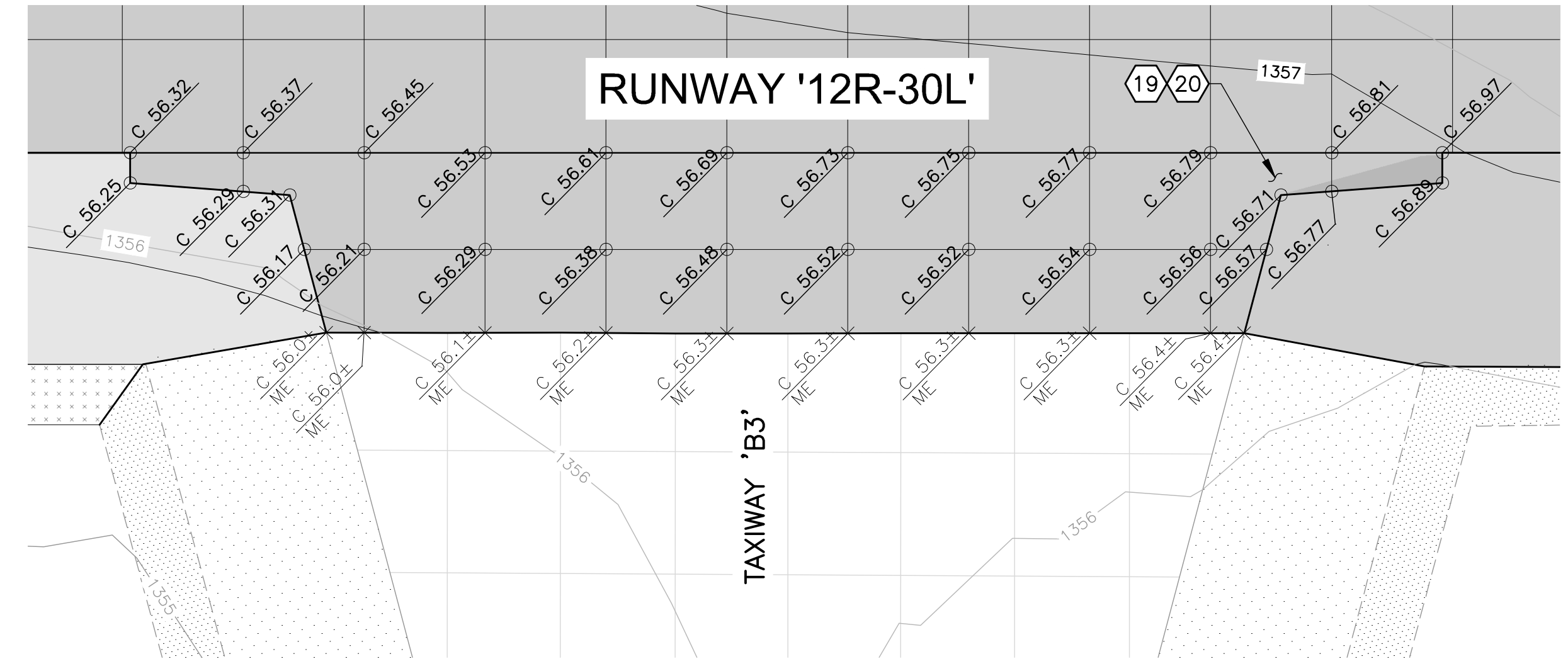
C2-3.2
 SHEET NO.
 81 OF 211

FILE:J:\2020\1020023.2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD_ADD-ALT-1\20023_2303-C2-3_X-ELEV_TW-K-B3-A1.dwg DATE:April 26, 2023 TIME:12:20 PM BY:travis woodman



RUNWAY '12R-30L'

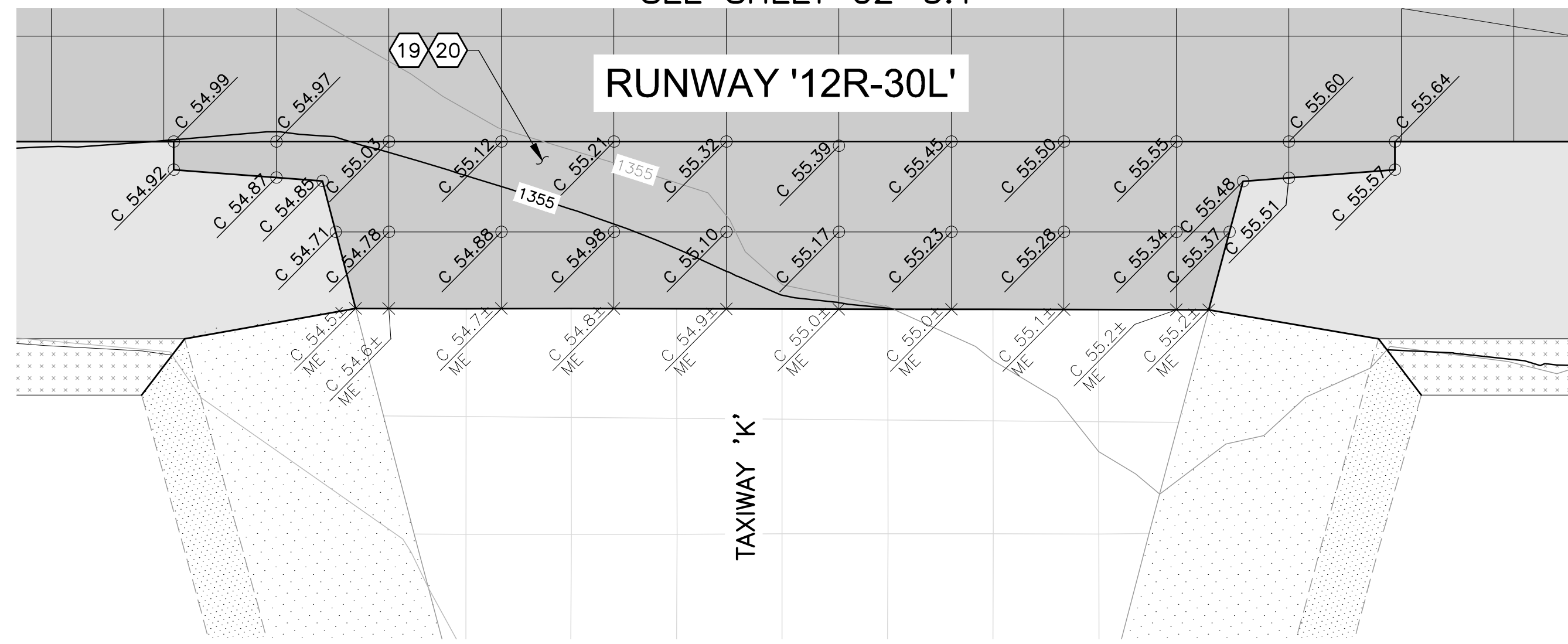
SEE SHEET C2-3.1



RUNWAY '12R-30L'

TAXIWAY 'B3'

SEE SHEET C2-3.2



RUNWAY '12R-30L'

TAXIWAY 'K'

SEE SHEET C2-3.1

REFERENCE NOTES	LEGEND
<p>(19) REFER TO SHEET C2-1.4 FOR TW K PAVING PLAN & PROFILE</p> <p>(20) REFER TO SHEET C2-4.3 FOR PCCP JOINTING</p>	<p>PROPOSED SPOT ELEV ⊙ PCCP JOINT (+1300)</p> <p>EXISTING SPOT ELEV ⊙ PCCP JOINT (+1300)</p>
KEYMAP	

REV	DATE	DESCRIPTION

DIBBLE

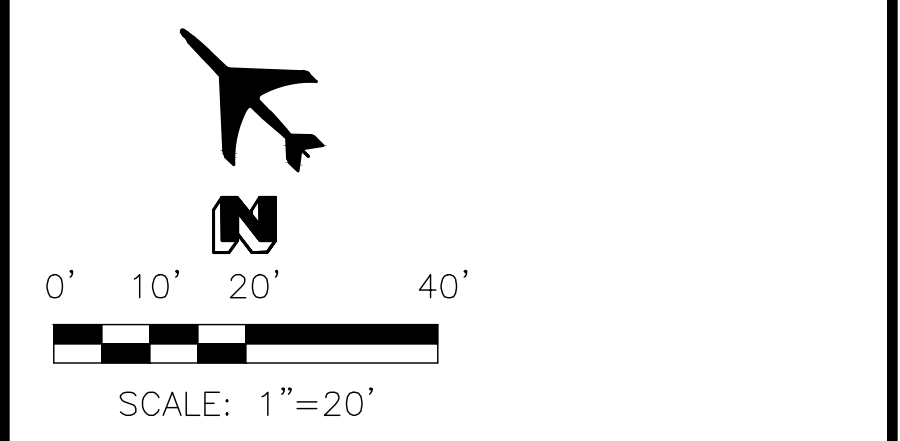
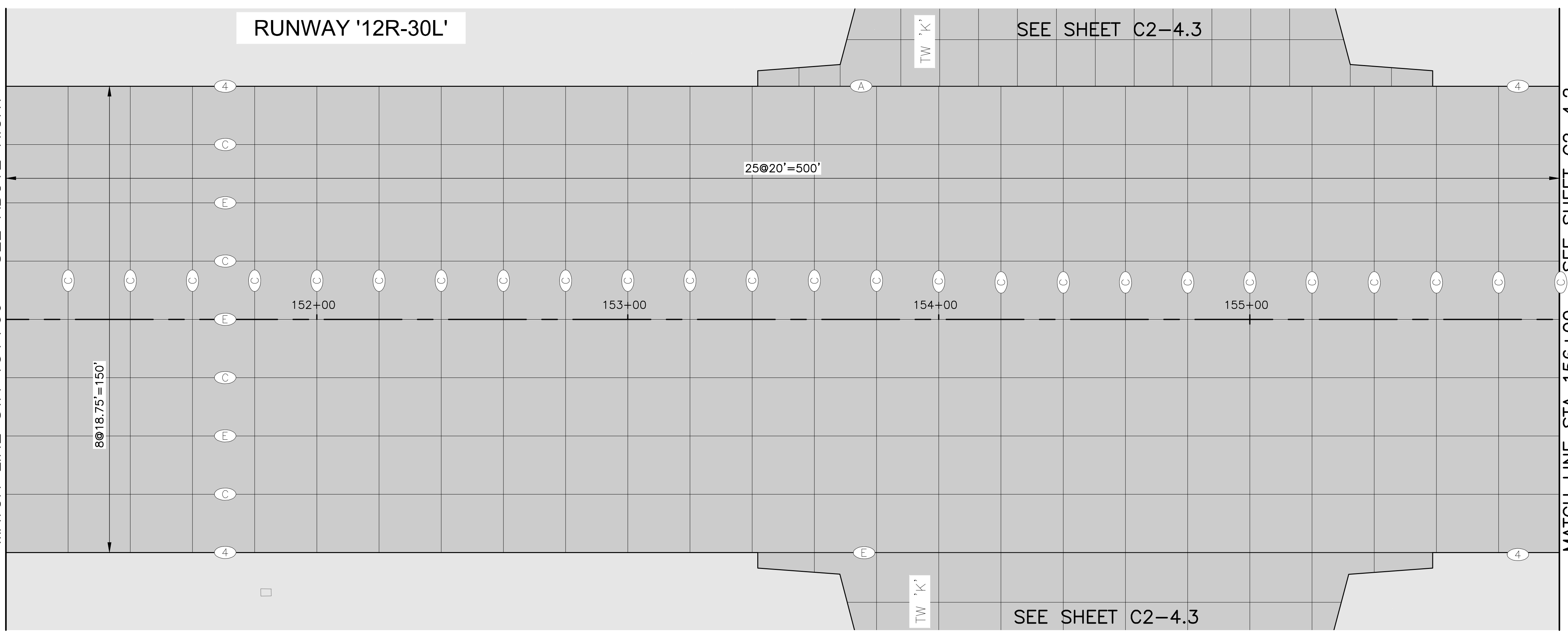
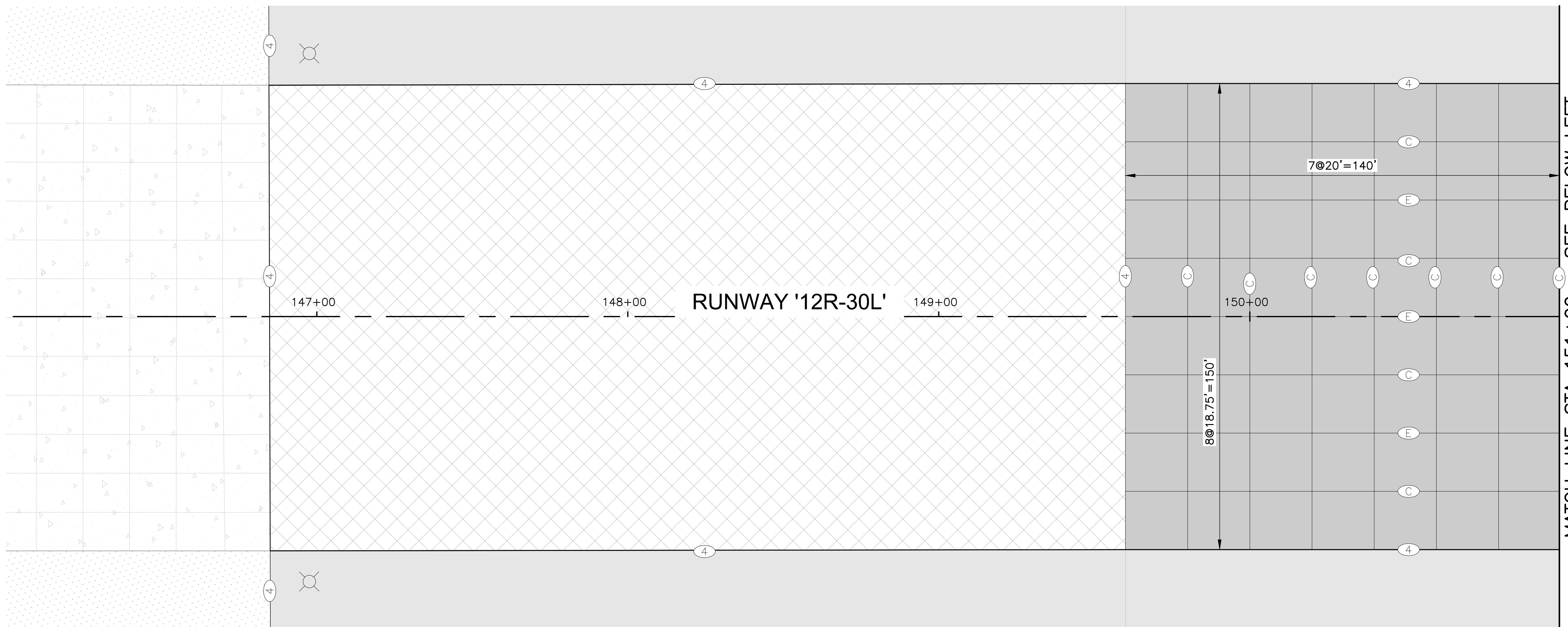
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2002_2303-C2-3_X-ELEV_TW-K-B3_A1



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PAVEMENT ELEVATION PLAN
 TAXIWAY 'K' AND 'B3'**



FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-1\20023-2303-C2-4-X-JNTS-AA1.dwg DATE: April 26, 2023 TIME: 12:20 PM BY: travis.woodman



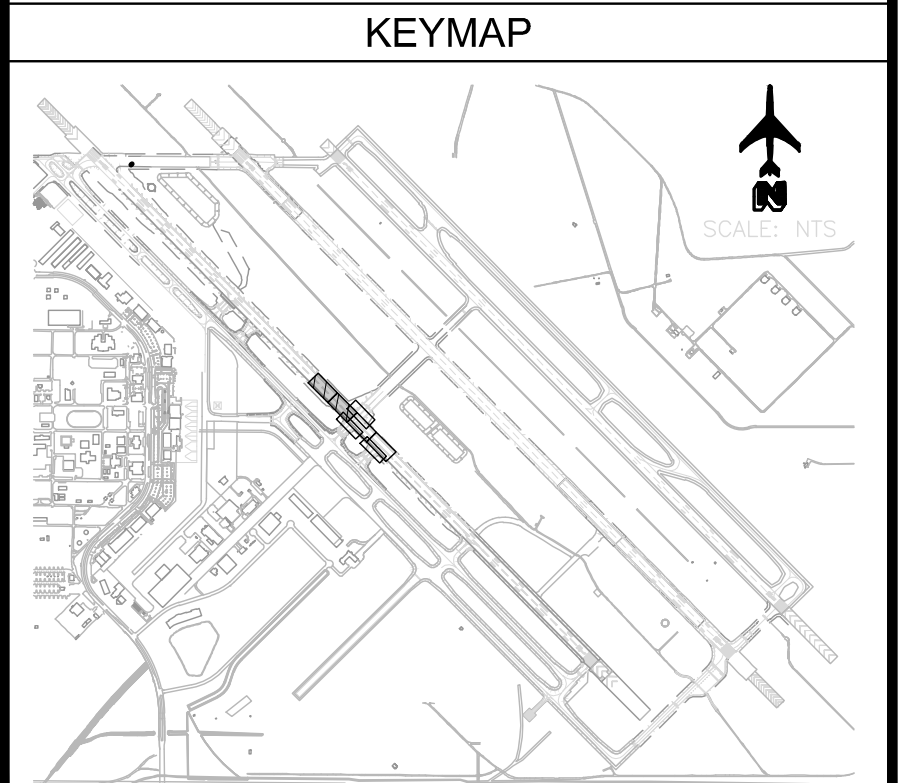
REV	DATE	DESCRIPTION

LEGEND

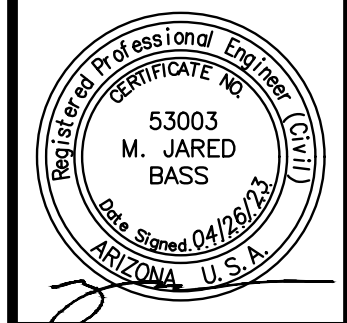
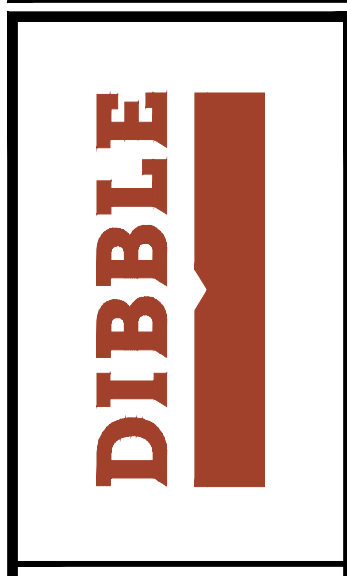
- EXST PCCP
- EXST AC PAVEMENT
- RUNWAY PCCP SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
- JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4

- JOINT NOTES**
- USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
 - USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.

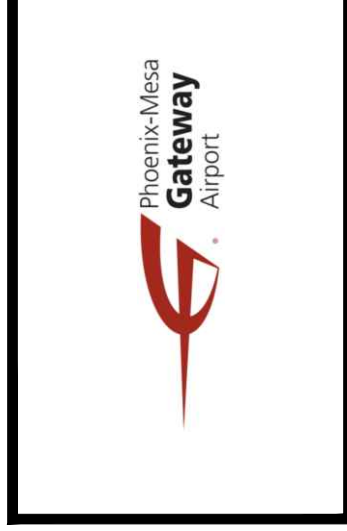
NOTE: IF ADD-ALT-2 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C3-4.6



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
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REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C2-4_X-JNTS_AA1



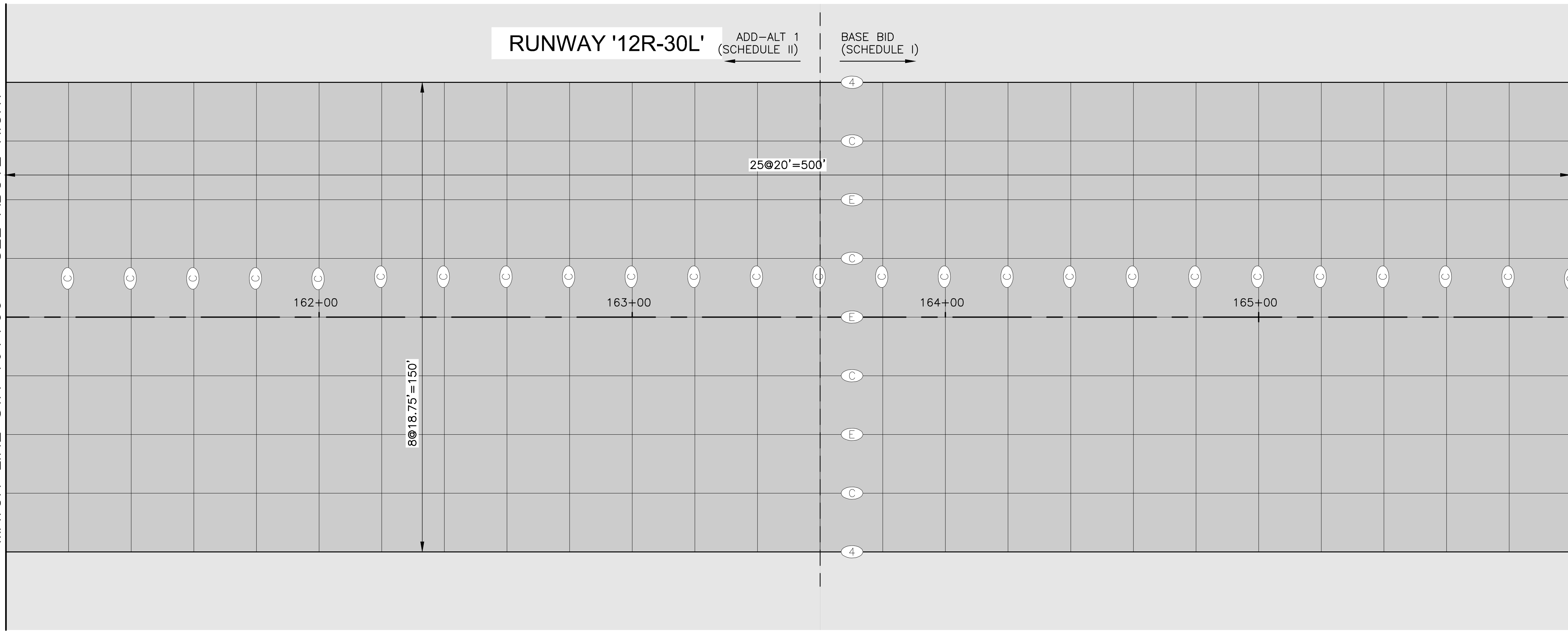
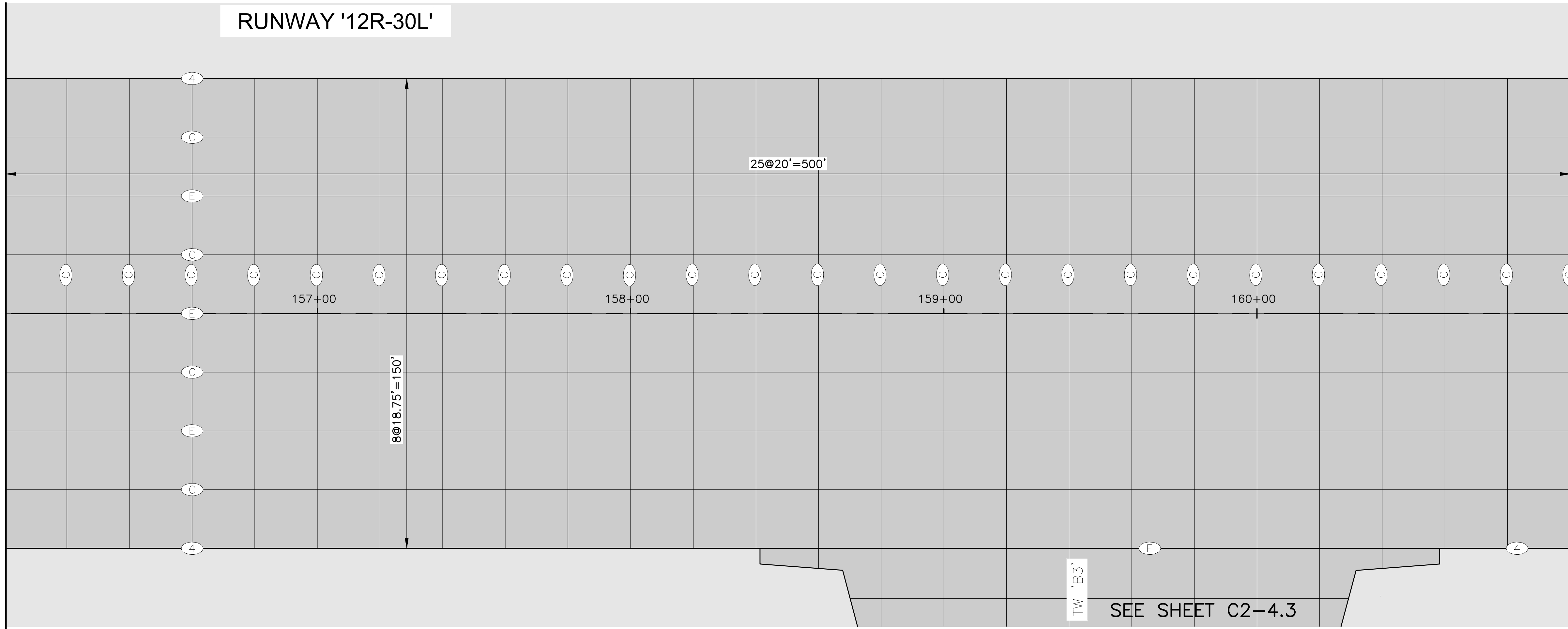
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) JOINT LAYOUT PLAN
STA 146+00 TO STA 156+00**



FILE: \\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-1\20023-2303-C2-4-X-JNTS-AA1.dwg DATE: April 26, 2023 TIME: 12:21 PM BY: travis.woodman

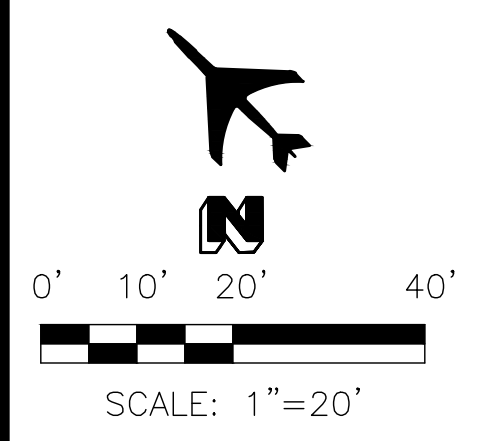
MATCH LINE STA 156+00 SEE SHEET C2-4.1

MATCH LINE STA 161+00 SEE ABOVE RIGHT



MATCH LINE STA 161+00 SEE BELOW LEFT

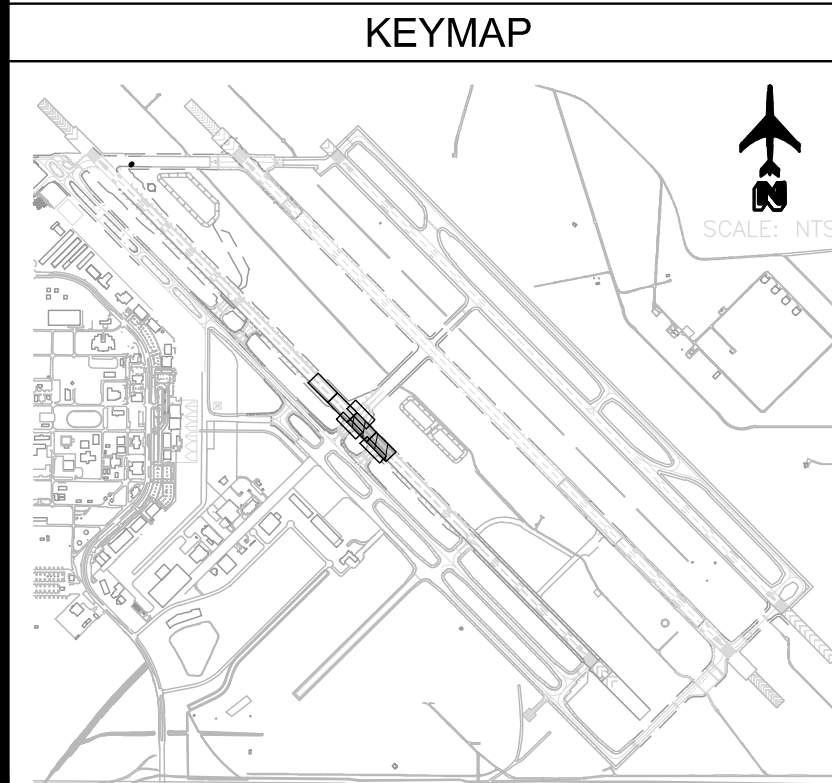
MATCH LINE STA 166+00 SEE SHEET C1-4.2



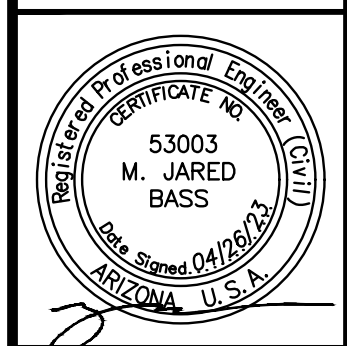
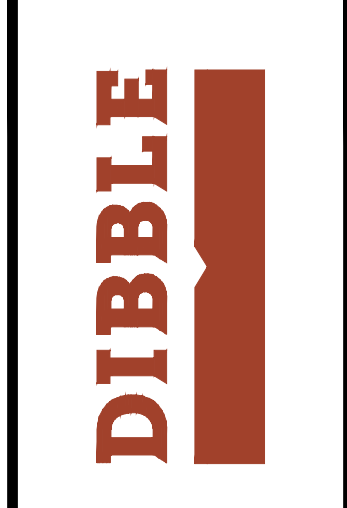
LEGEND

	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C3-4.5

- JOINT NOTES**
1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
 2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C2-4_X-JNTS_AA1

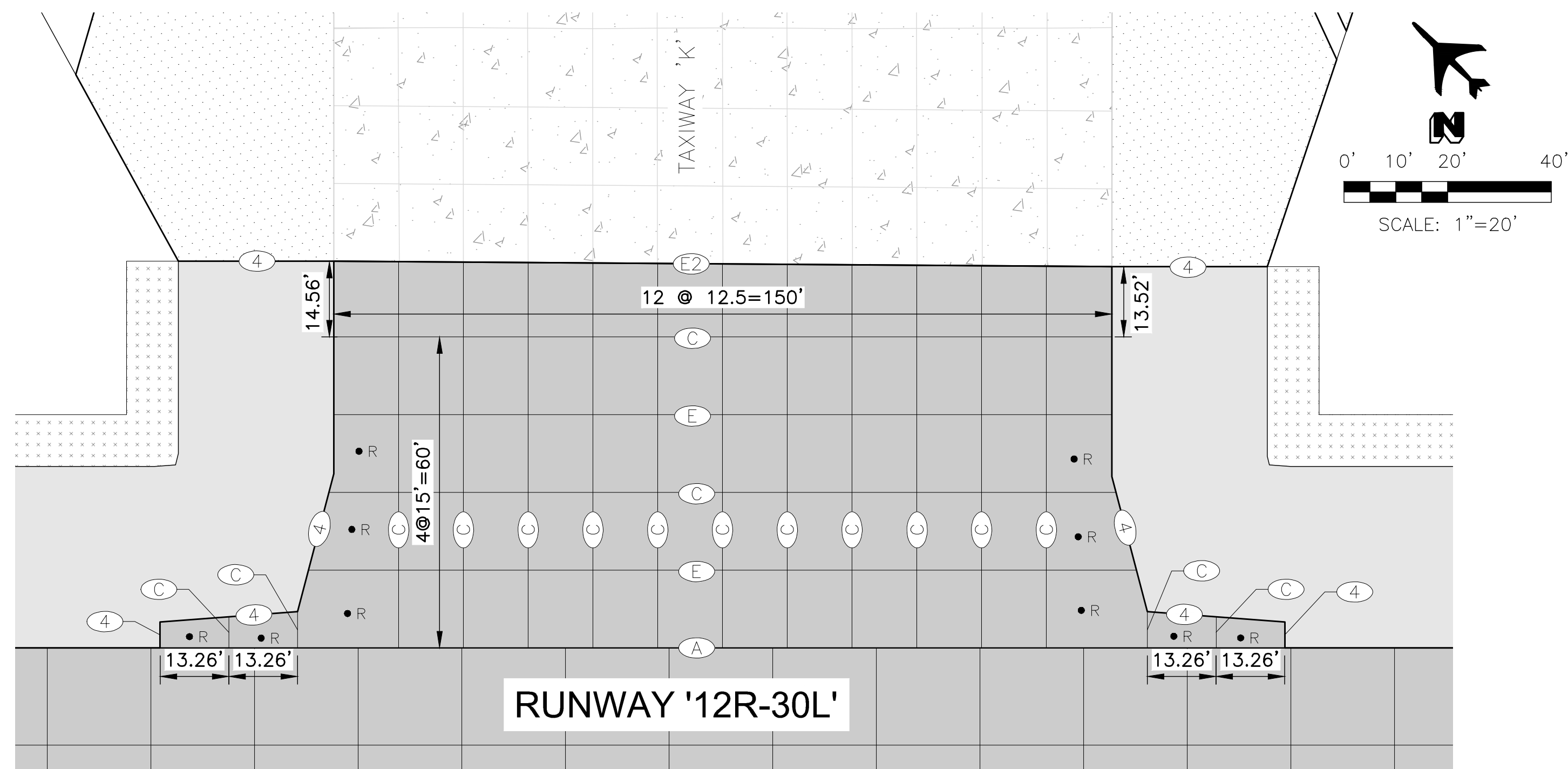


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) JOINT LAYOUT PLAN
STA 156+00 TO STA 166+00**

C2-4.2
SHEET NO.
84 OF 211

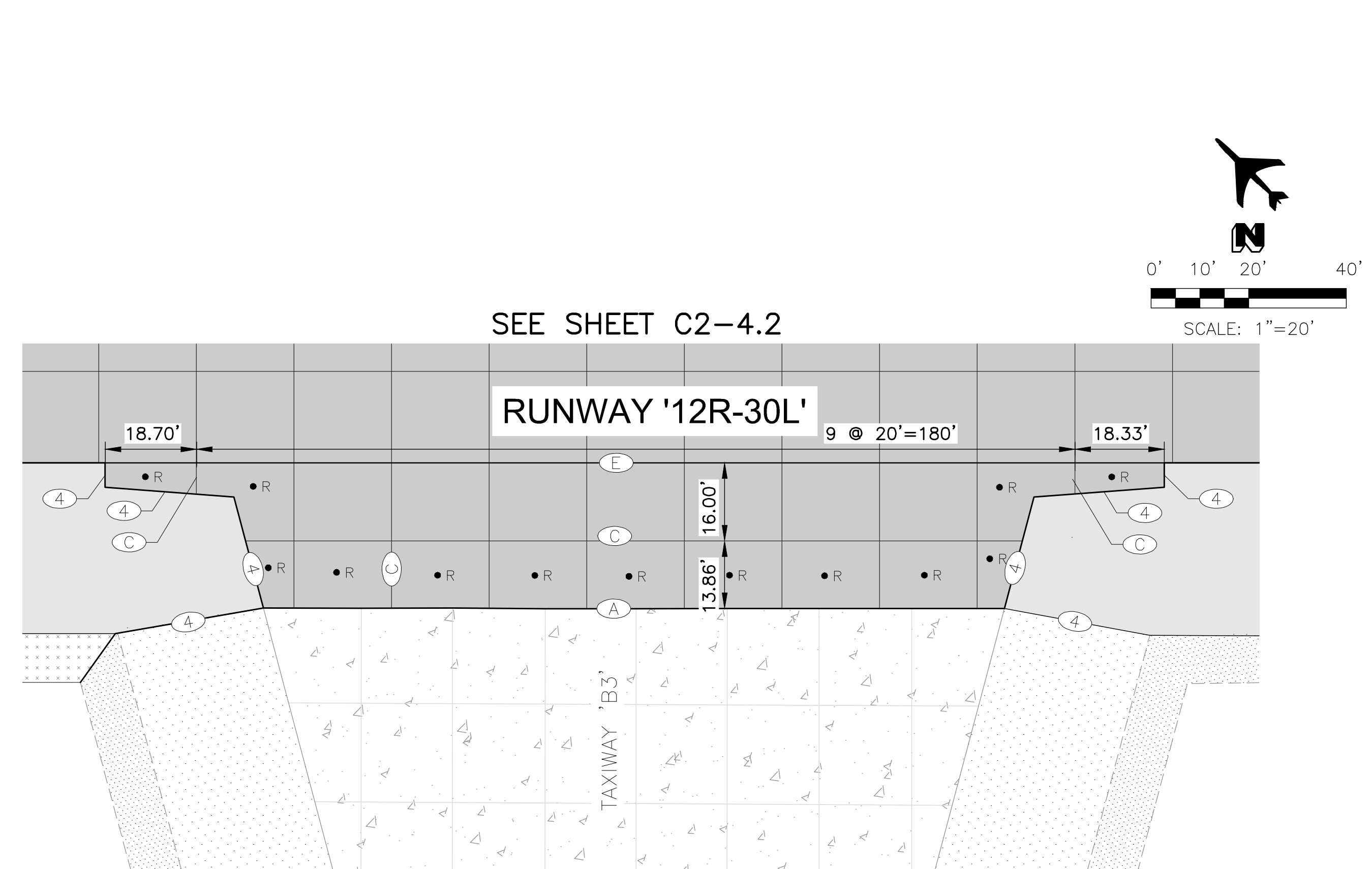


FILE: \\2020\1020023.2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-1\20023_2303-C2-4_X-JNTS_TW-K-B3-A1.dwg DATE: April 26, 2023 TIME: 12:22 PM BY: travis woodman



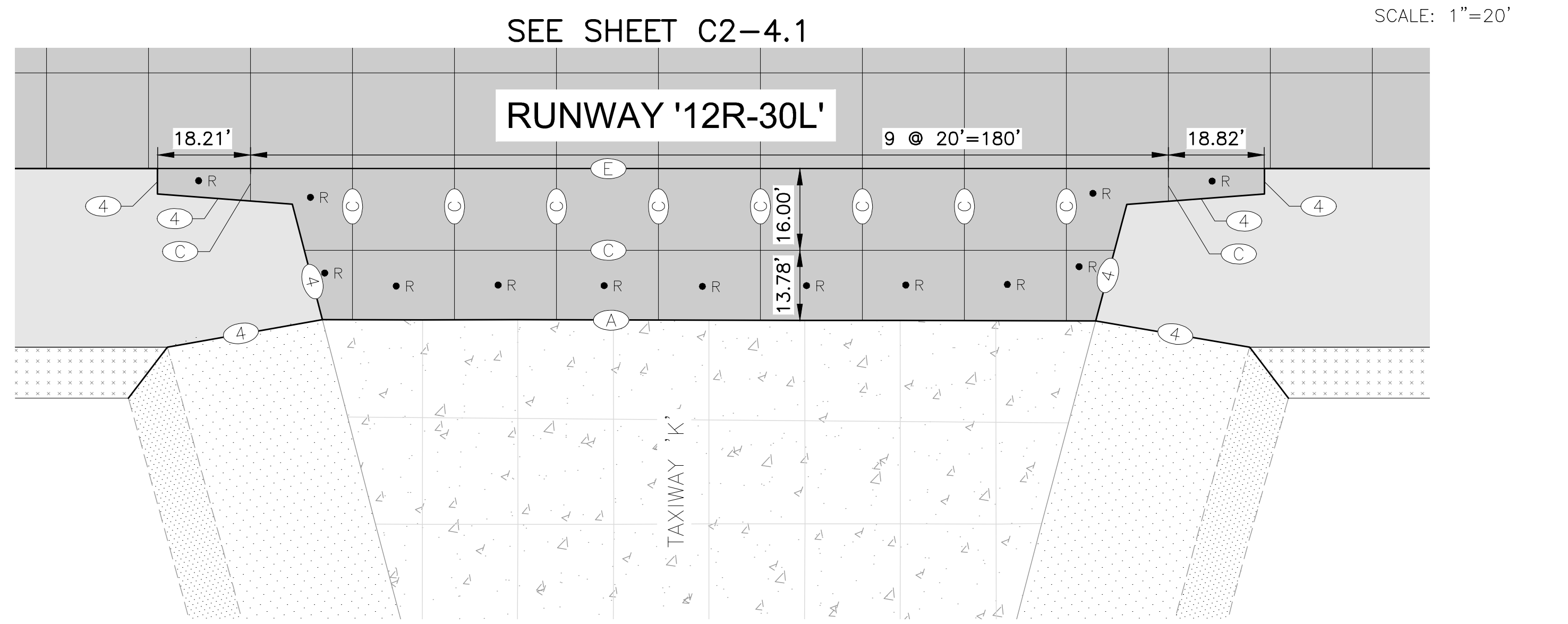
RUNWAY '12R-30L'

SEE SHEET C2-4.1



SEE SHEET C2-4.2

RUNWAY '12R-30L'

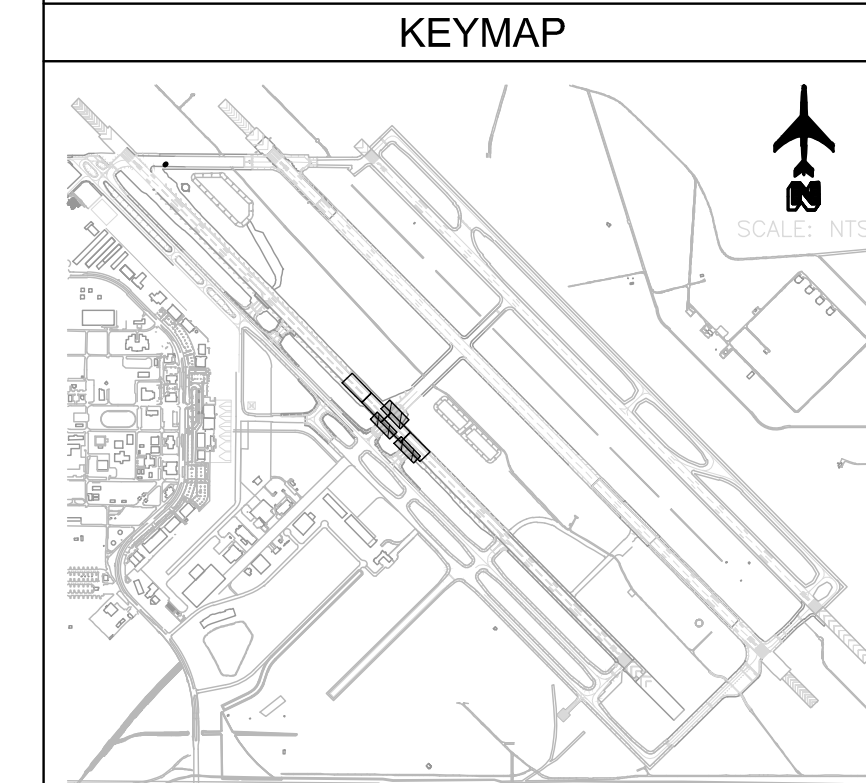


SEE SHEET C2-4.1

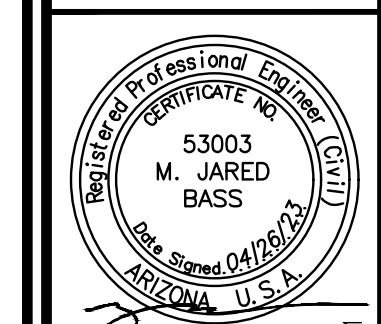
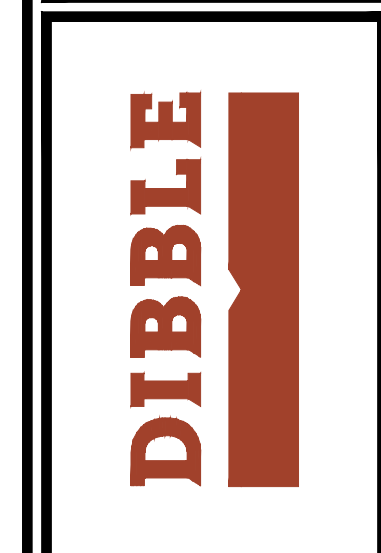
RUNWAY '12R-30L'

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4 REINFORCED PANEL PER DET. 7 SHT C1-4.4

- JOINT NOTES**
1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
 2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.



REV	DATE	DESCRIPTION



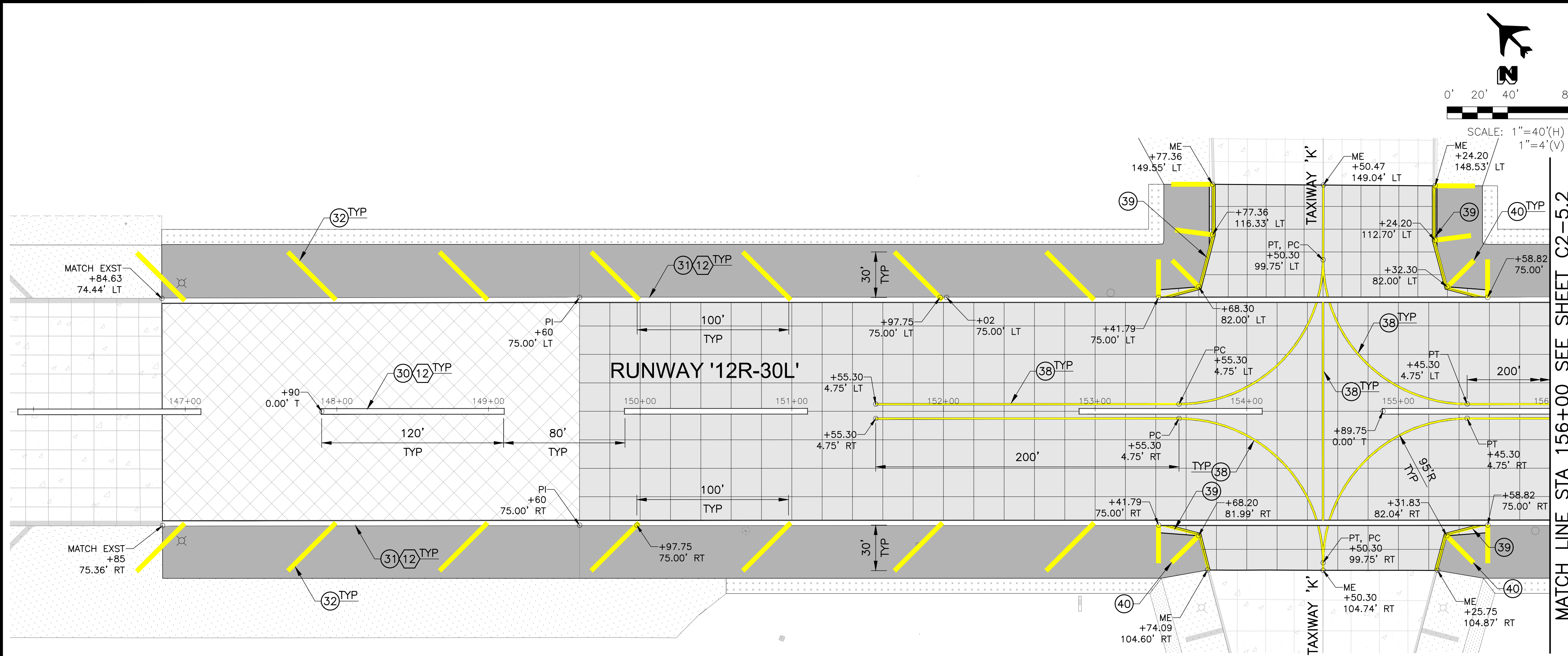
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C2-4_X-JNTS_TW-K-B3_A1



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) JOINT LAYOUT PLAN
TAXIWAY 'K' AND 'B3'**

C2-4.3
SHEET NO.
85 OF **211**

FILE: \\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD\ADD-ALT-1\20023-2303-C2-5_X-MRKG_AA1.dwg DATE: April 26, 2023 TIME: 12:22 PM BY: btrows woodman



MATCH LINE STA 156+00 SEE SHEET C2-5.2

CONSTRUCTION NOTES		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	5 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	1,830 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	14 EA
38	TAXIWAY CENTERLINE MARKING DET 1, SHT C1-5.4	1,290 LF
39	TAXIWAY EDGE MARKING DET 2, SHT C1-5.4	294 LF
40	TAXIWAY SHOULDER MARKING DET 3, SHT C1-5.4	12 EA

REFERENCE NOTES		
12	BLACK OUTLINE NOT INCLUDED IN DIMENSION	

PAVEMENT MARKING NOTES		
1.	ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.	
2.	ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.	
3.	ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE IS NO SEPARATE MEASUREMENT FOR BLACK PAINT. (SCH I-III ONLY)	

NOTE: IF ADD-ALT-2 IS AWARDED, THIS SHEET IS VOID, REPLACED BY SHT C3-5.3

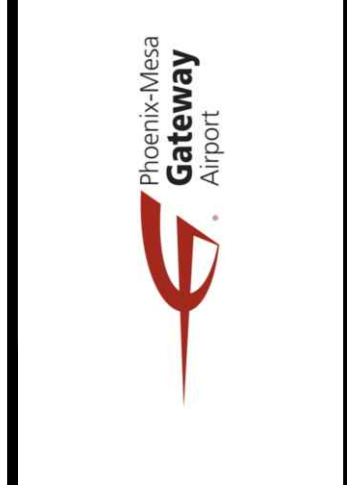
KEYMAP		

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
 53003
 M. JARED BASS
 License # 0417627
 ARIZONA - U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C2-5_X-MRKG_AA1



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH II) PAVEMENT MARKING PLAN
 STA 146+00 TO STA 156+00**

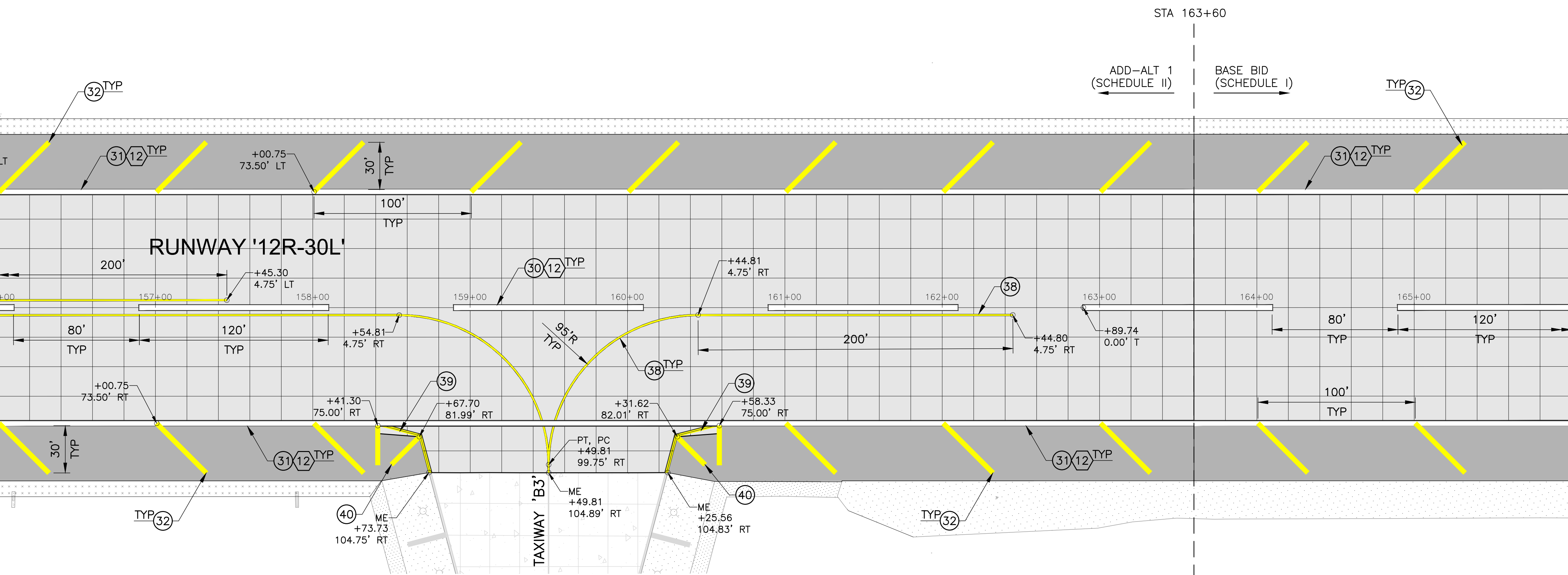
Call at least two full working days before you begin excavation

ARIZONA811
 Arizona's One-Call Center

811 or 1-800-874-8111 (TDD-811)
 In Maricopa County (602) 253-1100

FILE:J:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-1\20023-2303-C2-5-X-MRKG-AA1.dwg DATE: April 26, 2023 TIME: 12:23 PM BY: trowis woodman

MATCH LINE STA 156+00 SEE SHEET C2-5.1



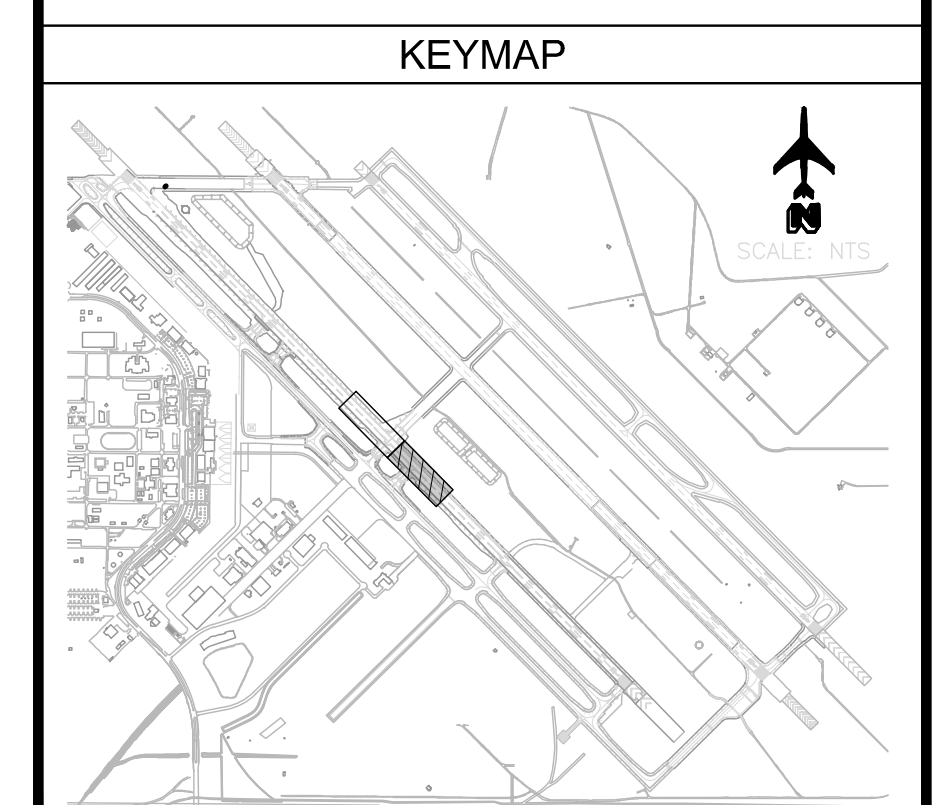
MATCH LINE STA 166+00 SEE SHEET C1-5.2

CONSTRUCTION NOTES (SCH I)		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	1 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	480 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	4 EA

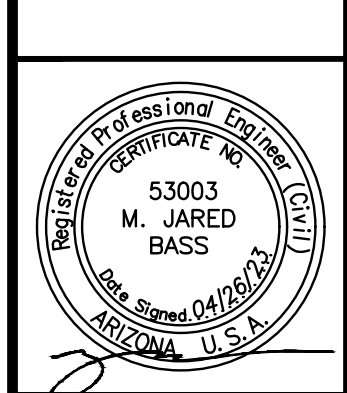
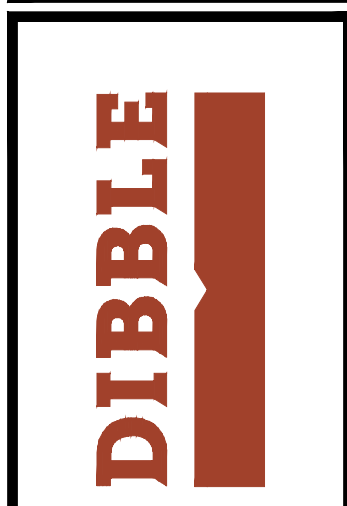
CONSTRUCTION NOTES (SCH II)		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	4 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	1,520 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	14 EA
38	TAXIWAY CENTERLINE MARKING DET 1, SHT C1-5.4	904 LF
39	TAXIWAY EDGE MARKING DET 2, SHT C1-5.4	102 LF
40	TAXIWAY SHOULDER MARKING DET 3, SHT C1-5.4	4 EA

REFERENCE NOTES	
12	BLACK OUTLINE NOT INCLUDED IN DIMENSION

- PAVEMENT MARKING NOTES**
- ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.
 - ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.
 - ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE IS NO SEPARATE MEASUREMENT FOR BLACK PAINT. (SCH I-III ONLY)



REV	DATE	DESCRIPTION



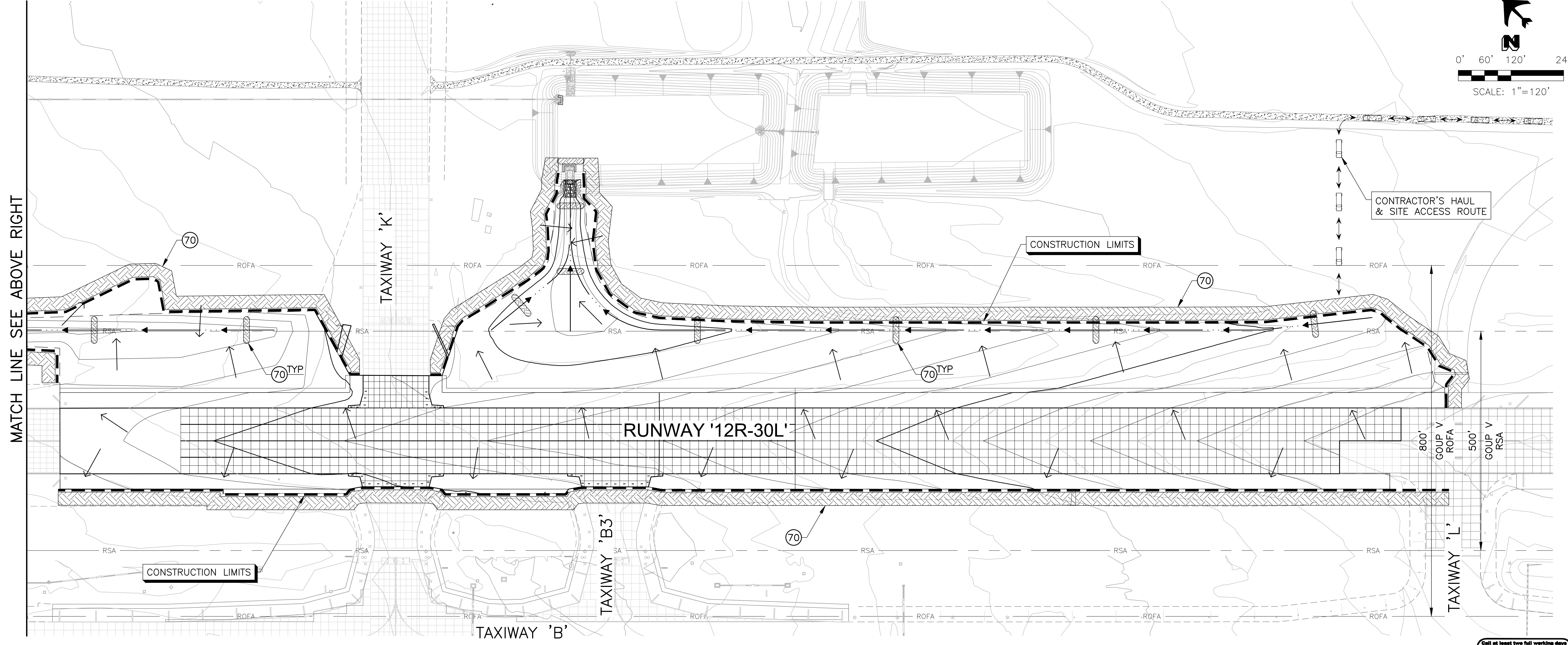
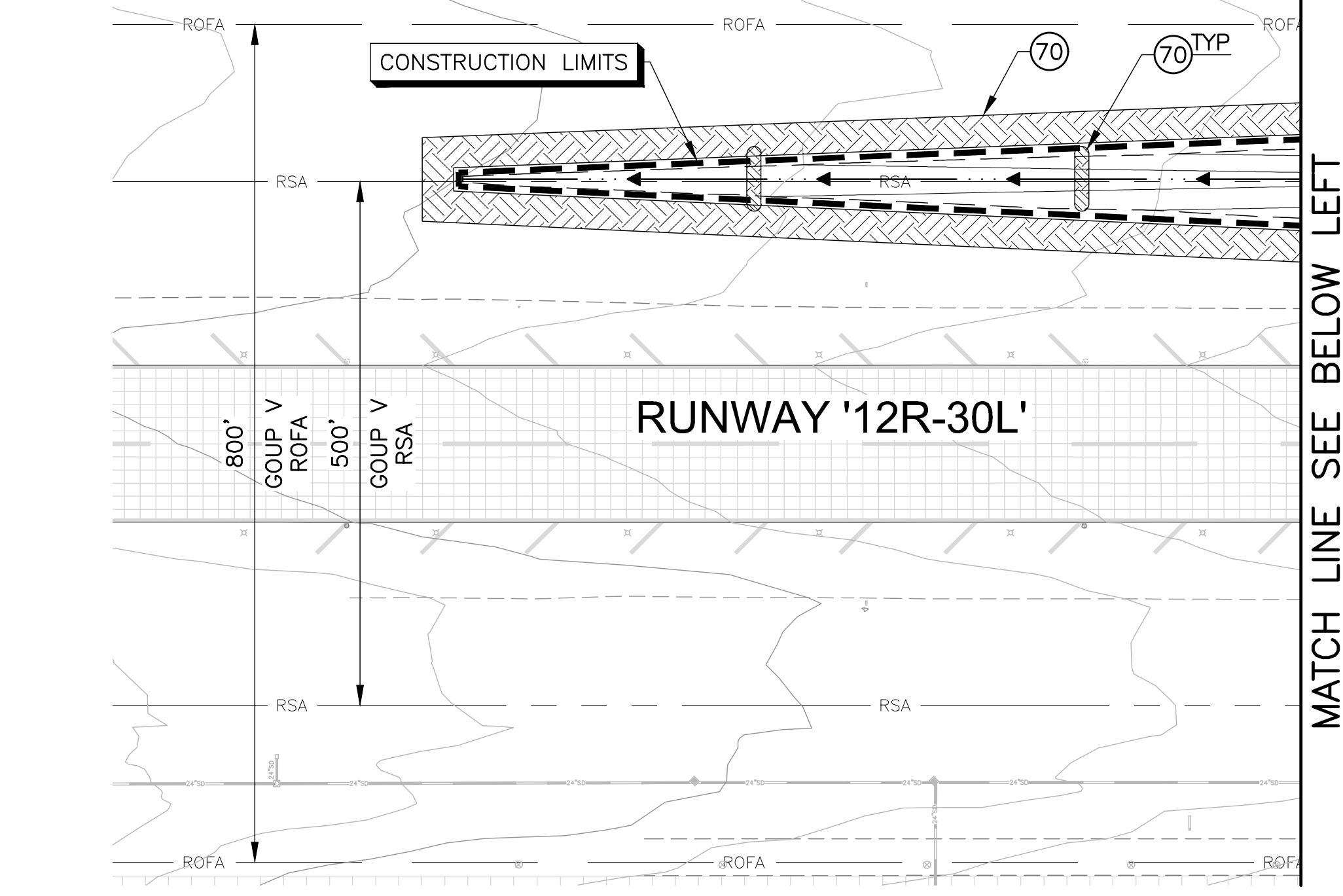
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C2-5-X-MRKG-AA1



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) PAVEMENT MARKING PLAN
STA 156+00 TO STA 166+00**



FILE: \\2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-1\20023_2303-C2-6_X-SWPP_AA1.dwg DATE: April 26, 2023 TIME: 12:23 PM BY: travis woodman



CONST NOTES (ADD ALT 1 - SCH II)

(70) FILTER SOCK/WADDLE (BMP-SPC-1) DET 1, SHT C1-6.2 NPI

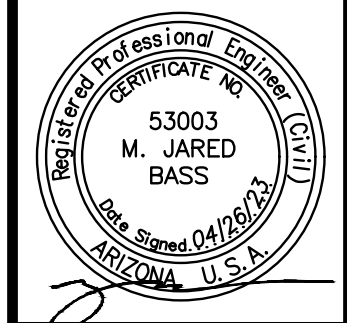
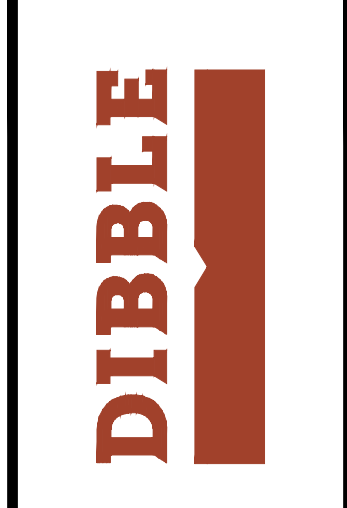
LEGEND

- [Hatched Box] FILTER SOCK/WADDLE (BMP-SPC-1) DET 1, SHT C1-6.2
- [Arrow] FLOW ARROW
- [Dashed Line] CONSTRUCTION LIMITS
- [Double Arrow] CONTRACTOR'S HAUL ROUTE

NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A PROJECT SWPPP PER C-105.
- THESE SHEETS ARE FOR REFERENCE ONLY.

REV	DATE	DESCRIPTION



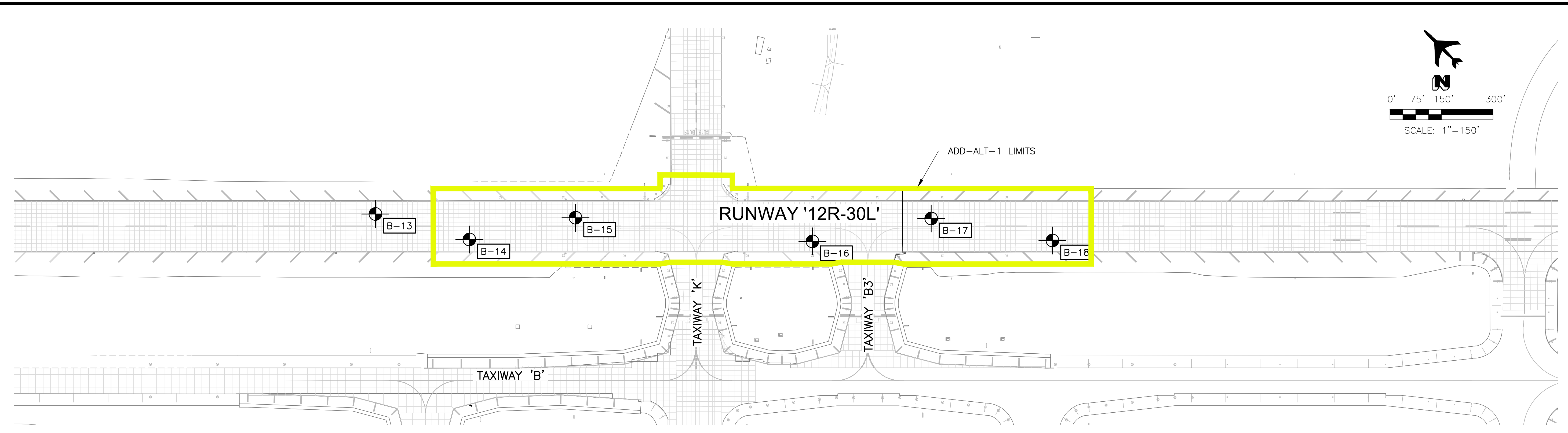
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C2-6_X-SWPP_AA1



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) STORMWATER POLLUTION
PREVENTION PLAN**



FILE: \\2020\1020023\2303\PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-1_X-BORE-AA1.dwg DATE: April 26, 2023 TIME: 12:24 PM BY: travis.woodman



REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20203_2303-CT2-1_X-BORE-AA1



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) BORINGS
BORING LOCATION MAP**

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sossaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-13

Depth (ft.)	Water Level Observations	Field Test Results	Water Content (%)	Water Weight (pcf)	LL-PL-PI	Percent Fines
0.0 - 0.7						
0.7 - 0.8						
0.8 - 0.9						
0.9 - 1.3						
1.3 - 2.3		2-3	20.7	96		
2.3 - 5.0						
5.0 - 6.11		6-11	20.6	96		
6.11 - 34.50					32-15-17	
34.50 - 11.0			8.7	114		

Location: See Exploration Plan
Latitude: 33.3088° Longitude: -111.6623°

Notes: See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations: None

Drill Rig: 772
Hammer Type: Automatic
Driller: [Blank]
Logged by: [Blank]
Boring Started: 08-09-2022
Boring Completed: 08-09-2022

Abandonment Method: Boring backfilled with Agger Cuttings. Surface capped with concrete.

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sossaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-14

Depth (ft.)	Water Level Observations	Field Test Results	Water Content (%)	Water Weight (pcf)	LL-PL-PI	Percent Fines
0.0 - 0.8						
0.8 - 1.4						
1.4 - 3.5		3-5	17.6	104		
3.5 - 5.0						
5.0 - 13.28		13-28	12.4	113		
13.28 - 32.19					32-19-13	82
32.19 - 14.50						
14.50 - 11.0			10.8	106		

Location: See Exploration Plan
Latitude: 33.3081° Longitude: -111.6619°

Notes: See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations: None

Drill Rig: 772
Hammer Type: Automatic
Driller: [Blank]
Logged by: [Blank]
Boring Started: 08-09-2022
Boring Completed: 08-09-2022

Abandonment Method: Boring backfilled with Agger Cuttings. Surface capped with concrete.

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sossaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-15

Depth (ft.)	Water Level Observations	Field Test Results	Water Content (%)	Water Weight (pcf)	LL-PL-PI	Percent Fines
0.0 - 0.7						
0.7 - 0.8						
0.8 - 1.4						
1.4 - 2.3		2-3	21.3	99		
2.3 - 5.0						
5.0 - 3.17		3-17	15.1	105		
3.17 - 41.18					41-18-23	
41.18 - 12.17						
12.17 - 11.0			11.1	103		

Location: See Exploration Plan
Latitude: 33.3077° Longitude: -111.6610°

Notes: See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations: None

Drill Rig: 772
Hammer Type: Automatic
Driller: [Blank]
Logged by: [Blank]
Boring Started: 08-09-2022
Boring Completed: 08-09-2022

Abandonment Method: Boring backfilled with Agger Cuttings. Surface capped with concrete.

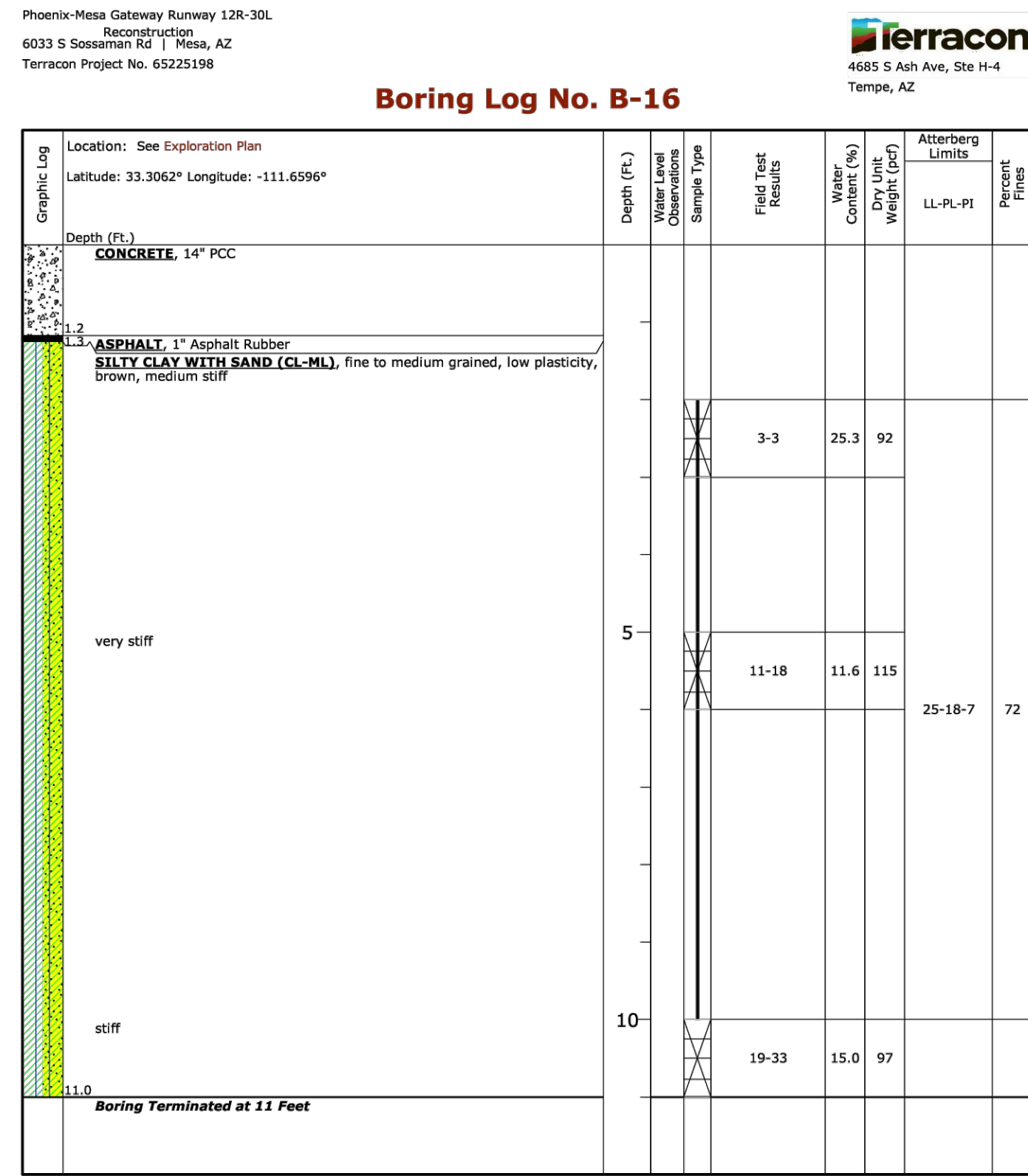
Facilities | Environmental | Geotechnical | Materials

GEOTECHNICAL BORINGS NOTE

THIS INFORMATION IS PROVIDED ONLY FOR THE BIDDER'S CONVENIENCE AND IS NOT PART OF THE CONSTRUCTION CONTRACT DOCUMENTS. ALL BIDDERS SHALL BE FULLY RESPONSIBLE TO MAKE THEIR OWN INVESTIGATIONS AND FORM THEIR OWN ESTIMATES OF EXISTING SUBSURFACE CONDITIONS PER THE SPECIAL PROVISIONS.



FILE:u:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-1\20023-2303-GT2-1-X-BORE-AA1.dwg DATE:April 26, 2023 TIME:12:24 PM BY:travis woodman



See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes

Water Level Observations

Drill Rig
772
Hammer Type
Automatic
Driller

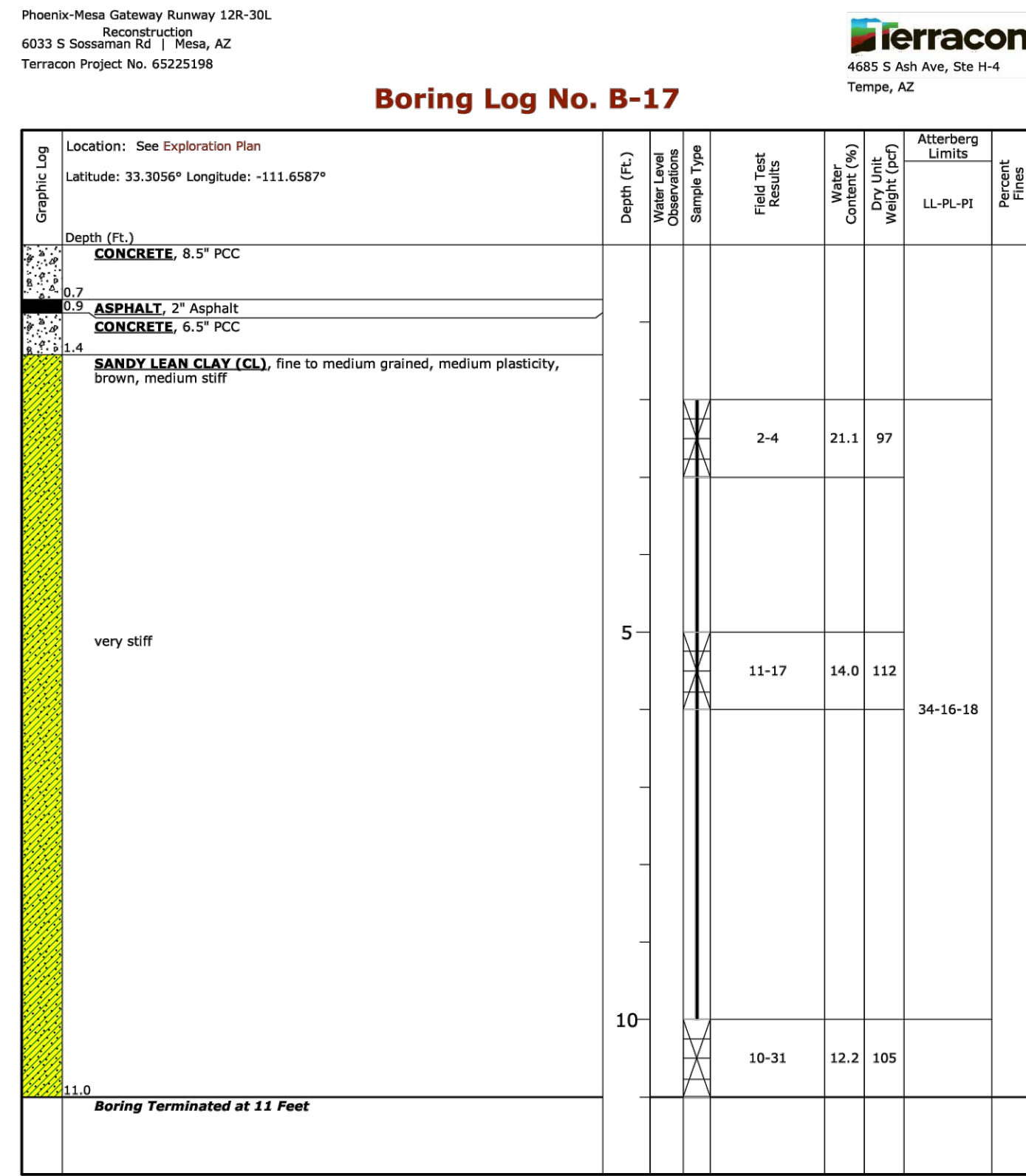
Advancement Method

Logged by

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with concrete

Boring Started
08-08-2022
Boring Completed
08-08-2022

Facilities | Environmental | Geotechnical | Materials



See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes

Water Level Observations

Drill Rig
772
Hammer Type
Automatic
Driller

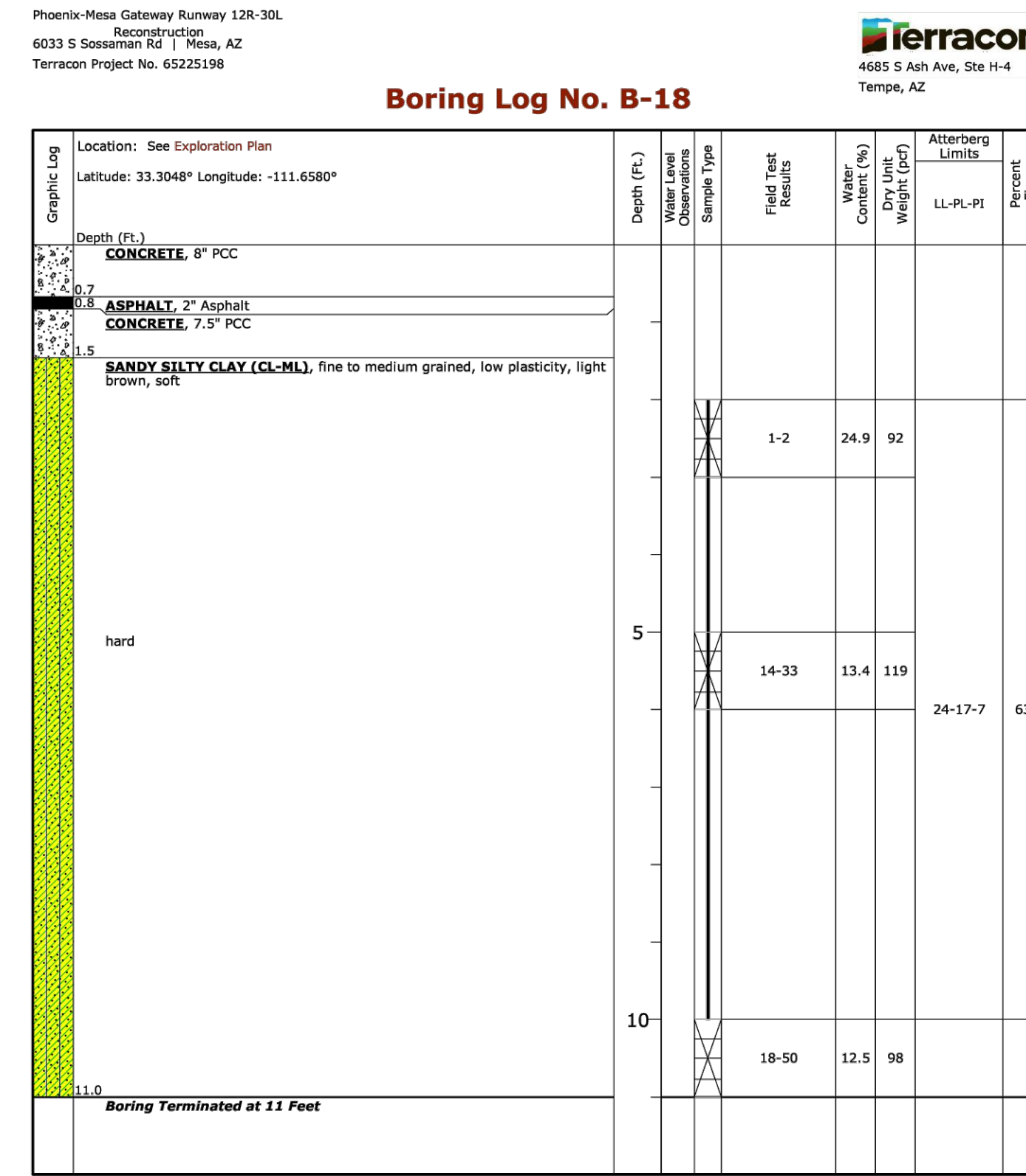
Advancement Method

Logged by

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with concrete

Boring Started
08-08-2022
Boring Completed
08-08-2022

Facilities | Environmental | Geotechnical | Materials



See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes

Water Level Observations

Drill Rig
772
Hammer Type
Automatic
Driller

Advancement Method

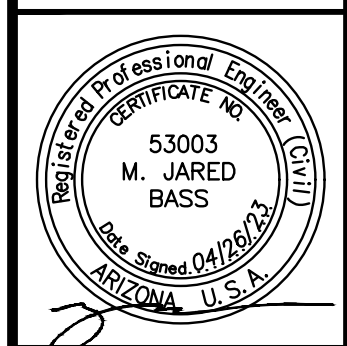
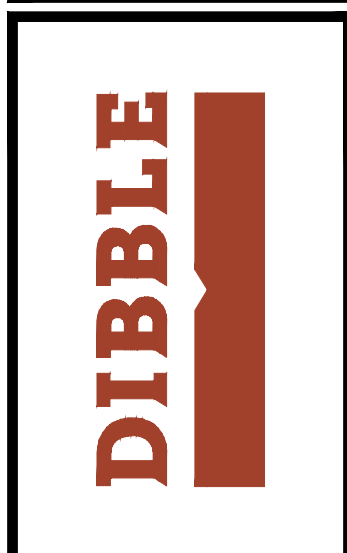
Logged by

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with concrete

Boring Started
08-08-2022
Boring Completed
08-08-2022

Facilities | Environmental | Geotechnical | Materials

REV	DATE	DESCRIPTION



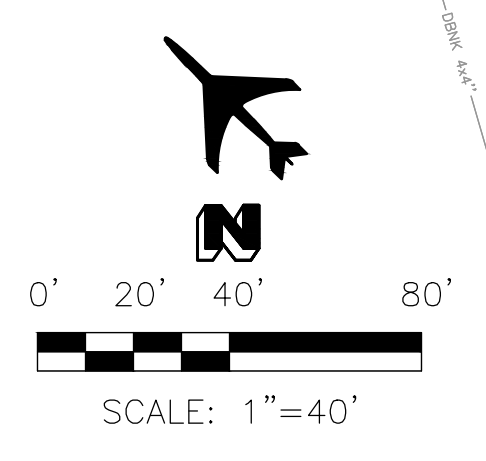
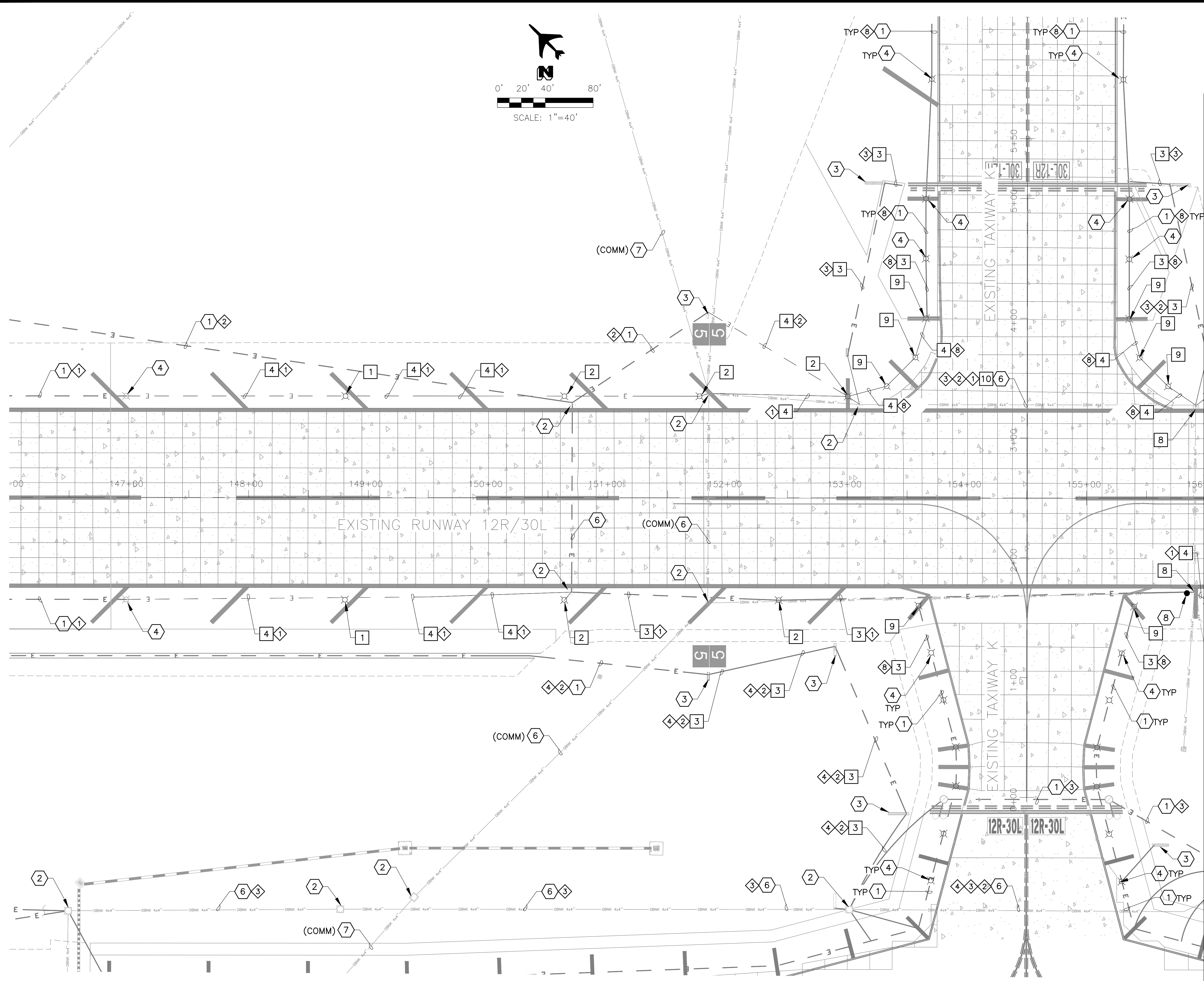
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-GT2-1_X-BORE-AA1



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) BORINGS
BORING LOGS**



FILE G:\PROJECTS\220006 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 1\220206 E2-2.1-E2-2.3 DEMOLITION AX1.dwg DATE: April 20, 2023 TIME: 2:01 PM BY: julio andrino



MATCH LINE STA 156+00 - SEE SHEET E2-2.2

REMOVAL NOTE	
1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE LIGHT AND ISOLATION TRANSFORMER, BASE CAN TO REMAIN.	2 EA
2 REMOVE AND SALVAGE EXISTING ELEVATED EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN.	5 EA
3 REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN.	440 LF
4 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR.	1990 LF
8 EXCAVATE AND REMOVE EXISTING 4'x4'x5' CONCRETE HAND HOLE	2 EA
9 REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN	8 EA
10 EXCAVATE AND REMOVE EXISTING CONCRETE ENCASED DUCTBANK	275 LF

REFERENCE NOTE	
1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.	
2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.	
3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.	
4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.	
6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE	

CIRCUIT IDENTIFICATION	
1 R1 (RW EDGE LIGHTS)	
2 R1S (RW SIGNS)	
3 RGL (RUNWAY GUARD LIGHTS)	
4 PPN (RW 12R PAPI NORTH)	
8 TWK (TAXIWAY K)	

KEYMAP	

REV	DATE	DESCRIPTION

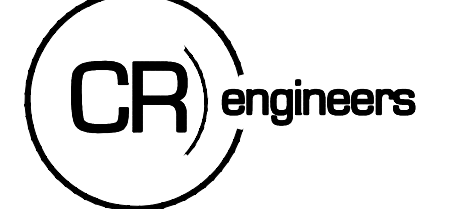
DIBBLE

Professional Engineer (Electrical)
 License No. 15896
 Catherine Alcorn
 State of Arizona

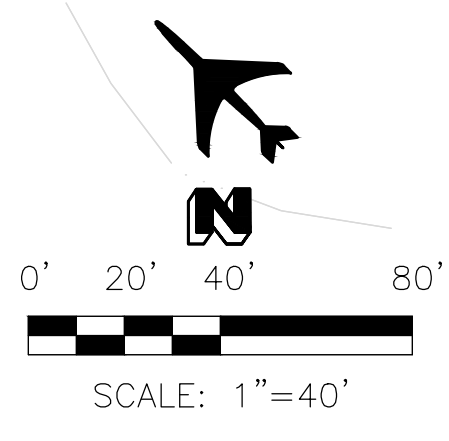
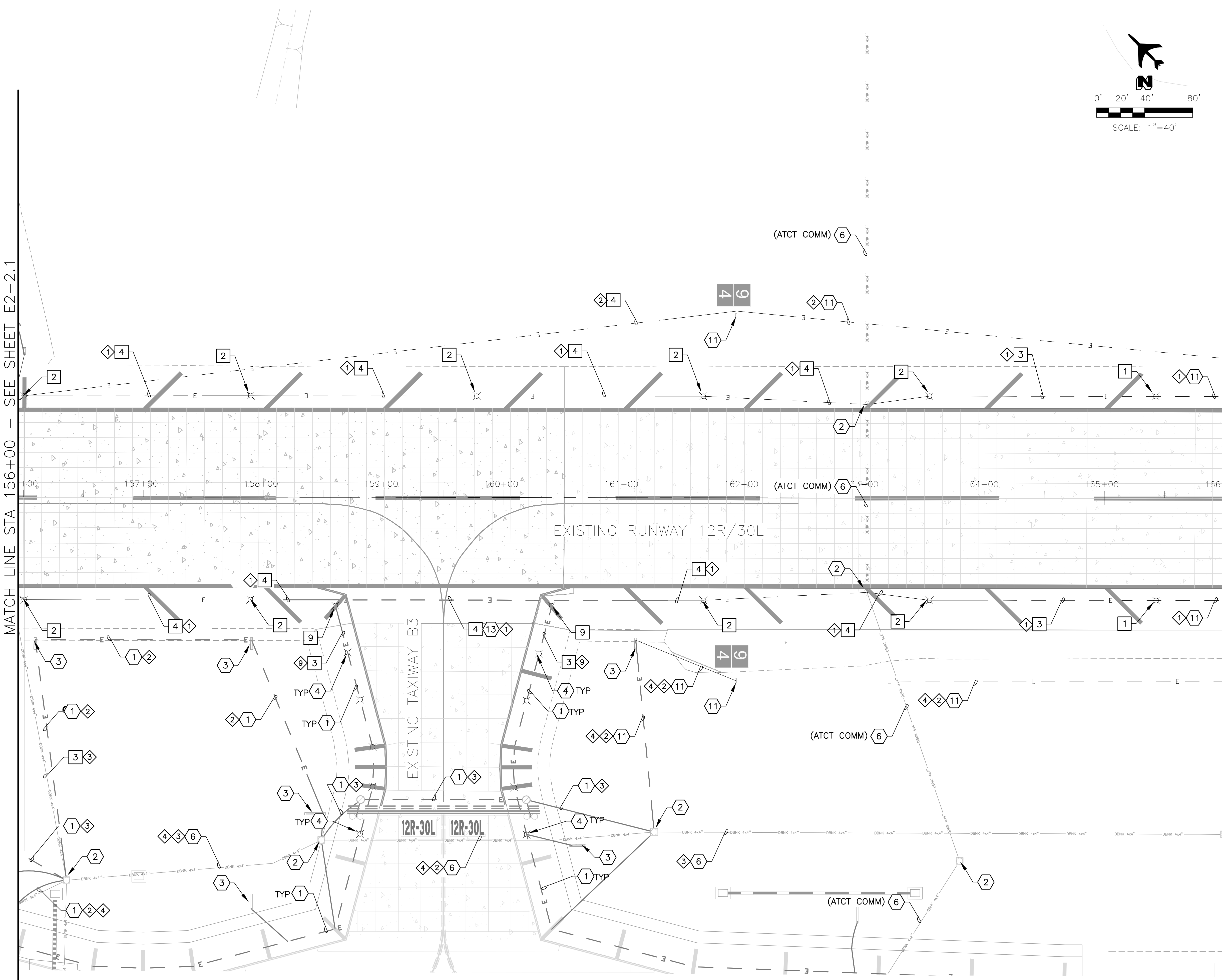
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 1
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**



FILE Q:\PROJECTS\22000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 1\22026 E2-2.1-E2-2.3 DEMOLITION A41.dwg DATE: April 18, 2023 TIME: 3:22 PM BY: jeff weidman



REMOVAL NOTE

- 1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE LIGHT AND ISOLATION TRANSFORMER, BASE CAN TO REMAIN. 2 EA
- 2 REMOVE AND SALVAGE EXISTING ELEVATED EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN. 9 EA
- 3 REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN. 640 LF
- 4 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 2120 LF
- 9 REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN 2 EA

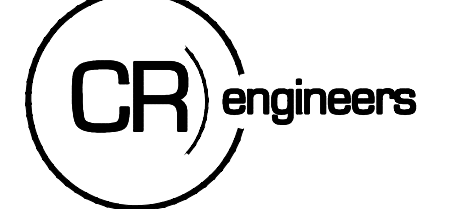
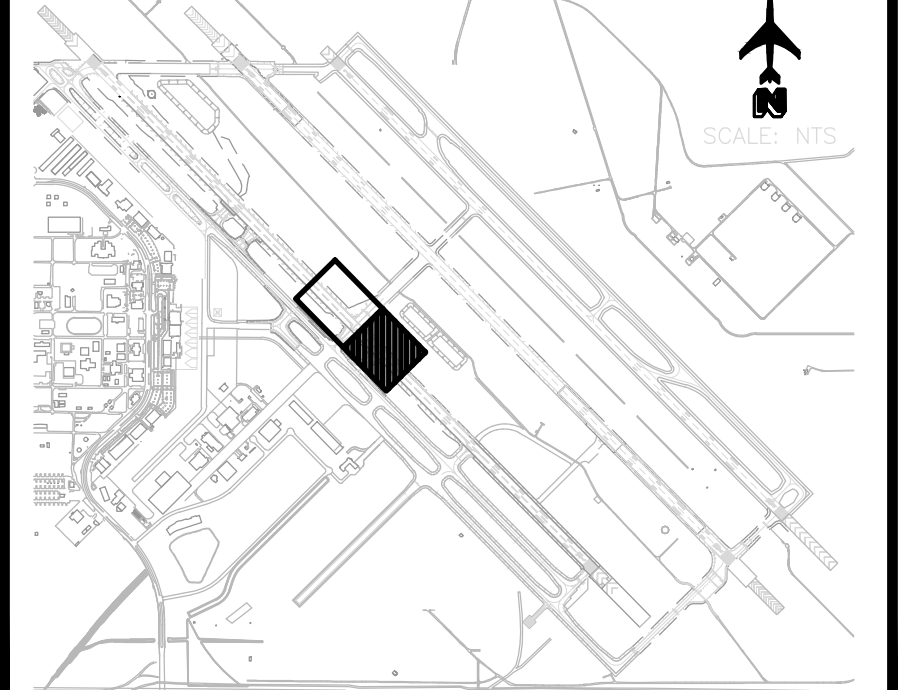
REFERENCE NOTE

- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
- 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
- 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
- 4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
- 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
- 11 WORK ASSOCIATED WITH SCHEDULE I - BASEBID

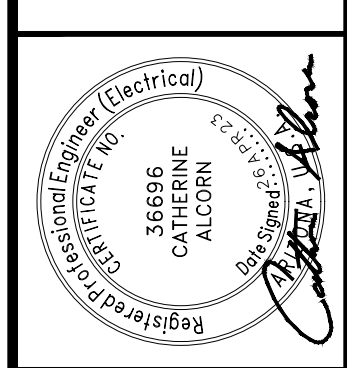
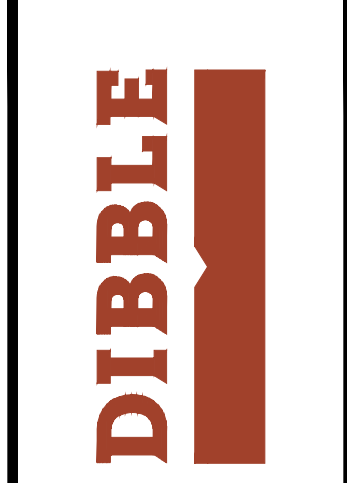
CIRCUIT IDENTIFICATION

- 1 R1 (RW EDGE LIGHTS)
- 2 R1S (RW SIGNS)
- 3 RGL (RUNWAY GUARD LIGHTS)
- 4 PPN (RW 12R PAPI NORTH)
- 9 TB (TAXIWAY B)

KEYMAP



REV	DATE	DESCRIPTION



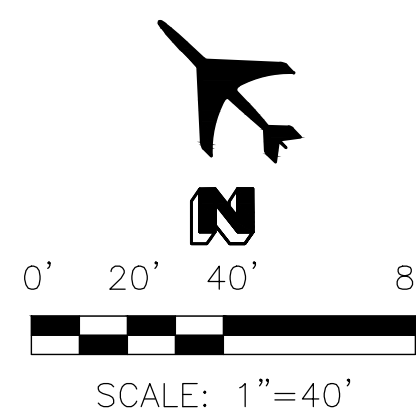
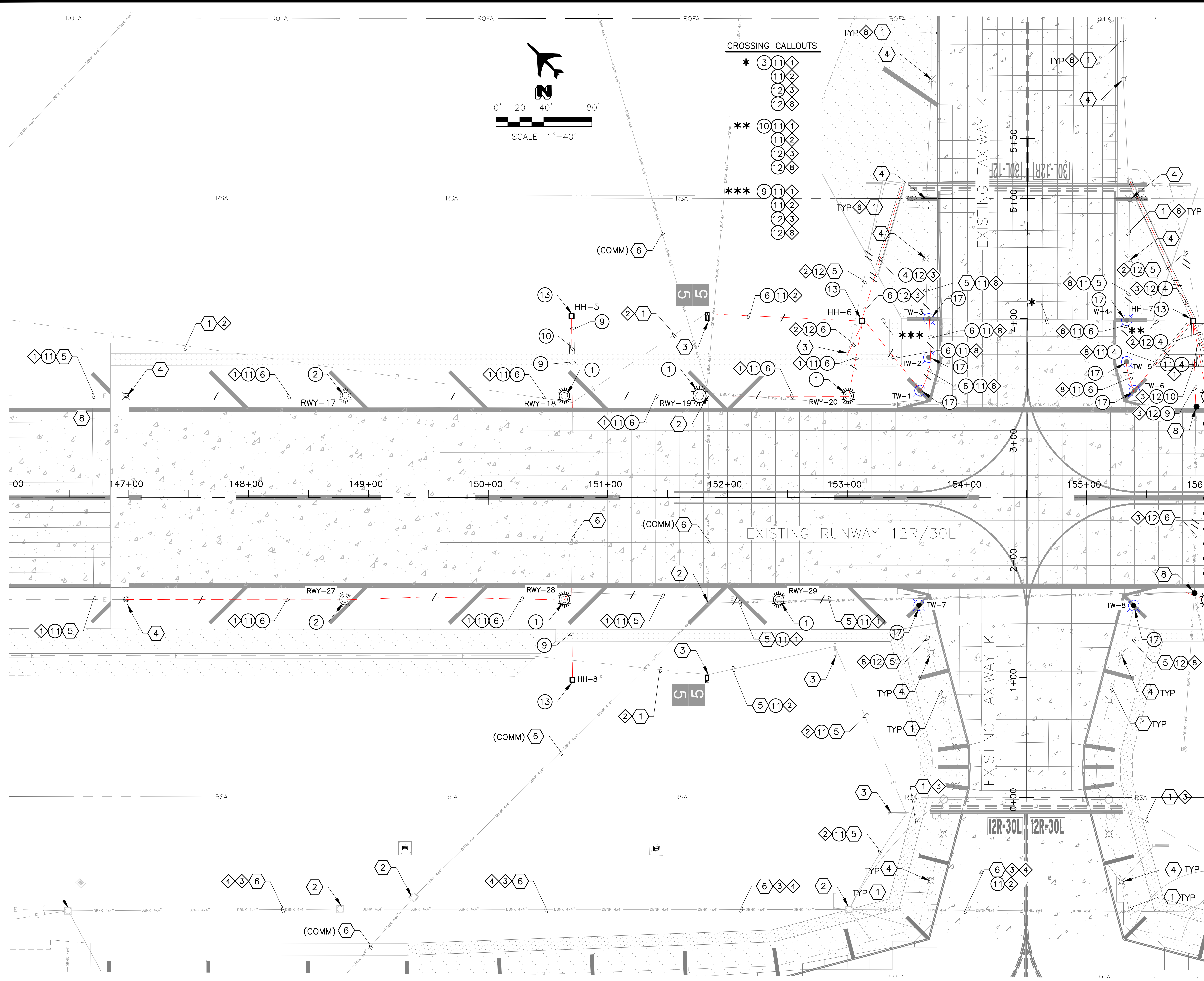
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DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) AIRFIELD ELECTRICAL
DEMOLITION**

E2-2.2
SHEET NO.
92 OF 211

FILE G:\PROJECTS\220000\220206 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 1\220206 E2-3.1-E2-3.3 INSTALLATION A1.dwg DATE: April 20, 2023 TIME: 2:48 PM BY: julio.andrino



CROSSING CALLOUTS

- * 3 11 1
- 11 2
- 12 3
- 12 8
- ** 10 11 1
- 11 2
- 12 3
- 12 8
- *** 9 11 1
- 11 2
- 12 3
- 12 8

CONSTRUCTION NOTES

- 1 INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 5 EA
- 2 INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE WITH NEW BOLTS AND GASKET. 2 EA
- 3 NEW 4-4"C - CONCRETE ENCASED 280 LF
- 4 NEW 1-2"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 480 LF
- 6 NEW 1-2"C - SE 1270 LF
- 9 NEW 4-4"C - SE 195 LF
- 10 NEW 4-4"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 110 LF
- 11 NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 3100 LF
- 12 NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 1150 LF
- 13 NEW 4"x4"x4" AIRCRAFT-RATED HANDHOLE AND LID WITH SPRING ASSISTED OPENING 2 EA
- 17 INSTALL SALVAGED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE WITH NEW BOLTS, GASKET AND NEW LAMP 8 EA
- 20 INSTALL NEW LED L-861(L) RUNWAY TEMPORARY THRESHOLD LIGHTS AND TRANSFORMERS 11 EA

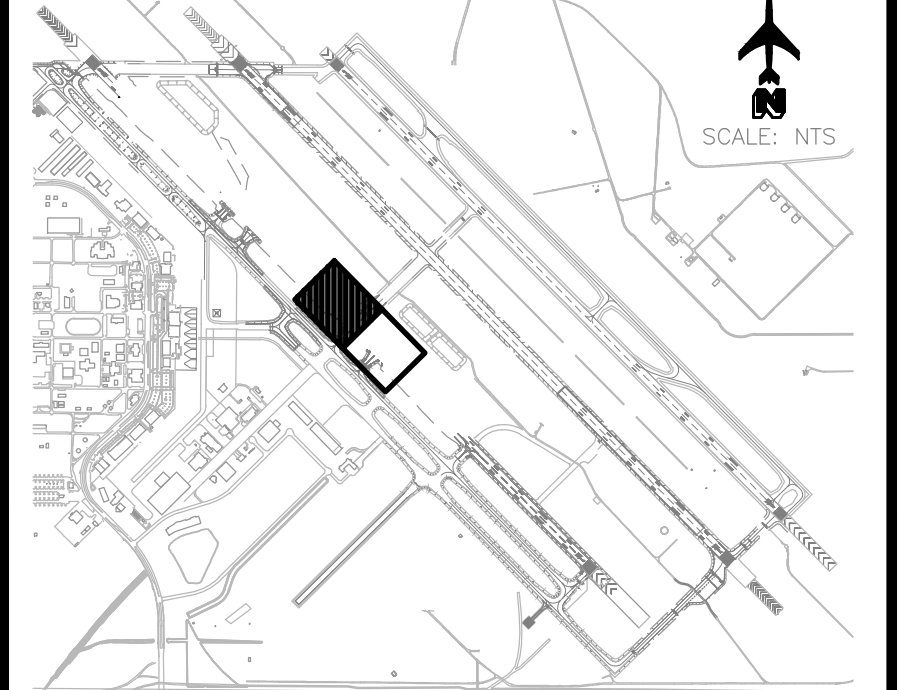
REFERENCE NOTE

- 1 EXISTING CONDUIT AND CONDUCTOR
- 2 EXISTING HANDHOLE/JUNCTION CAN
- 3 EXISTING AIRFIELD GUIDANCE SIGN.
- 4 EXISTING ELEVATED LIGHT FIXTURE
- 5 EXISTING CONDUIT
- 6 EXISTING DUCTBANK
- 8 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.

CIRCUIT IDENTIFICATION

- 1 R1 (RW EDGE LIGHTS)
- 2 R1S (RW SIGNS)
- 3 RGL (RUNWAY GUARD LIGHTS)
- 4 PPN (RW 12R PAPI NORTH)
- 8 TWK (TAXIWAY K)

KEYMAP



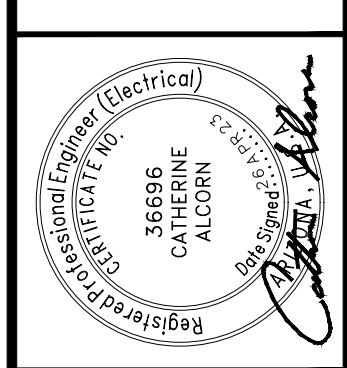
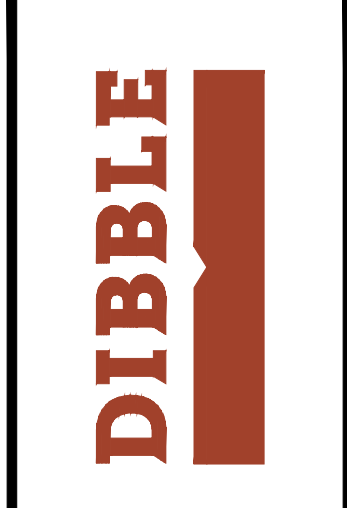
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REV	DATE	DESCRIPTION

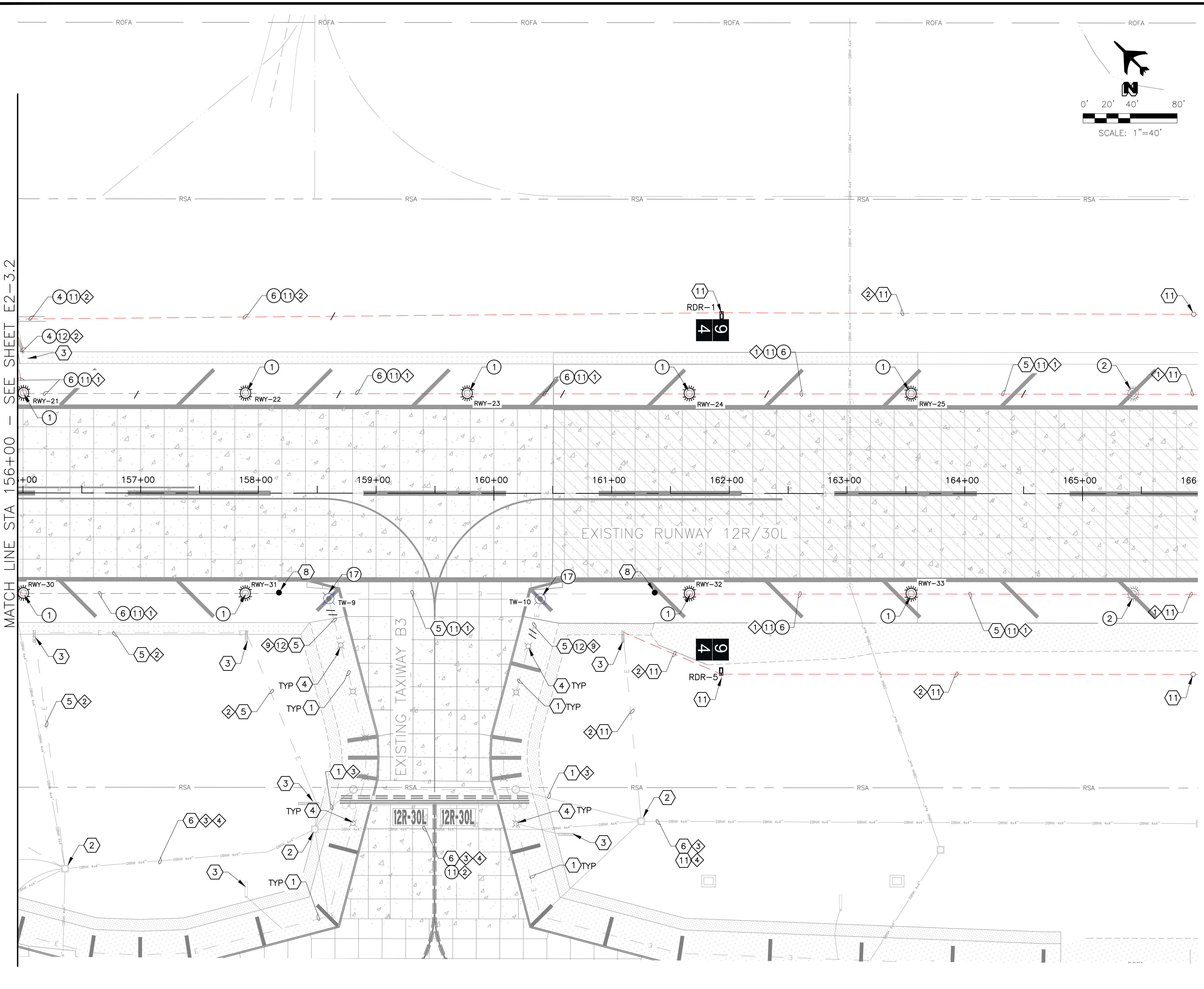


DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH II) AIRFIELD ELECTRICAL
INSTALLATION**

FILE G:\PROJECTS\22000\22026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 1\22026 E2-3.1-E2-3.3 INSTALLATION A1.dwg DATE: April 20, 2023 TIME: 2:49 PM BY: julio andrino

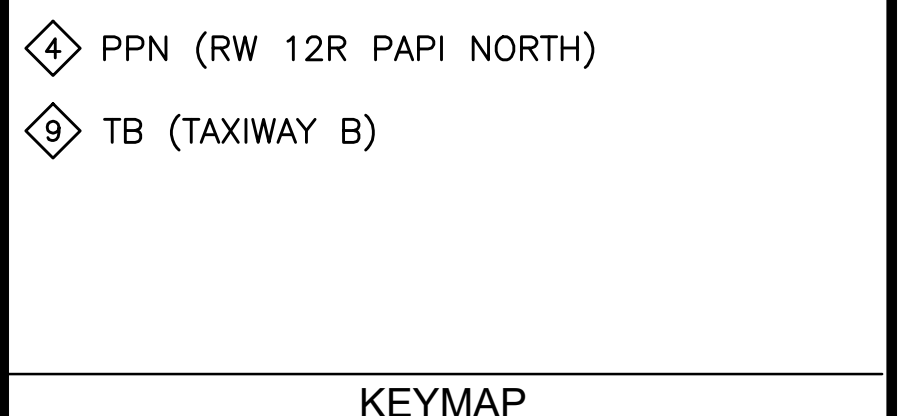


MATCH LINE STA 156+00 - SEE SHEET E2-3.2

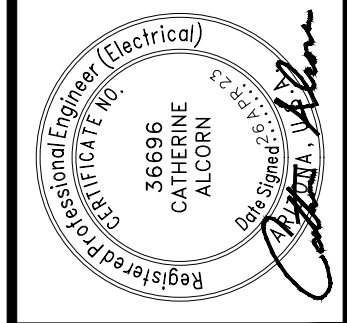
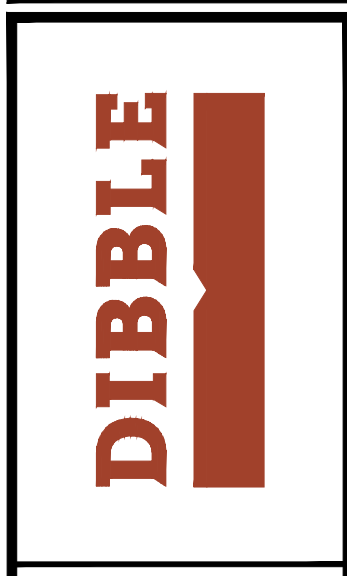
- CONSTRUCTION NOTES ○
- ① INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 9 EA
 - ② INSTALL SALVAGED RUNWAY EDGE/ THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE WITH NEW BOLTS AND GASKET. 2 EA
 - ④ NEW 1-2" C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 80 LF
 - ⑥ NEW 1-2" C - SE 1800 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 2600 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 80 LF
 - ⑰ INSTALL SALVAGED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE WITH NEW BOLTS, GASKET AND NEW LAMP 2 EA

- REFERENCE NOTE ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/JUNCTION CAN
 - ③ EXISTING AIRFIELD GUIDANCE SIGN.
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
 - ⑪ WORK ASSOCIATED WITH BASEBID

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)
 - ⑤ TB (TAXIWAY B)



REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



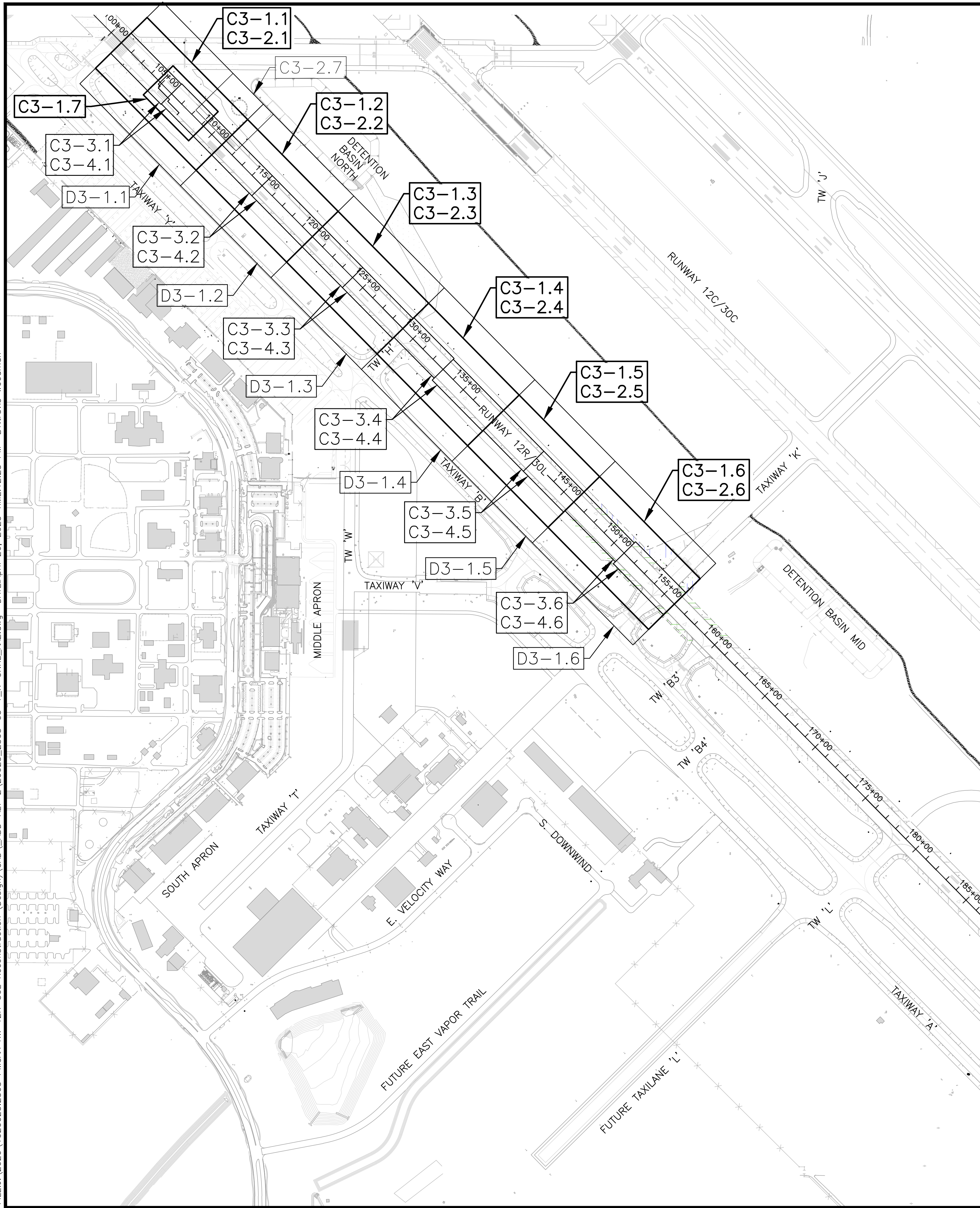
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 1
(SCH III) AIRFIELD ELECTRICAL
INSTALLATION**

CR engineers

Call at least two full working days before you begin excavation.

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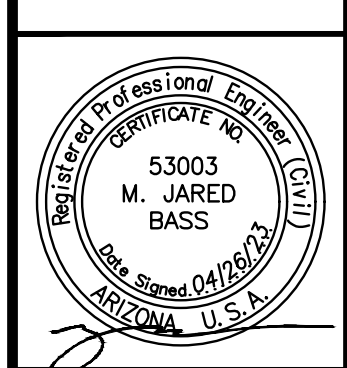
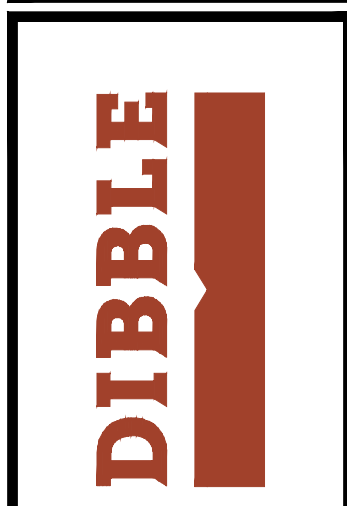
FILE: \\2020\102002\3.2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\200203-2303-G3-1-X-GNRL_AA2.dwg DATE: April 26, 2023 TIME: 12:25 PM BY: trovis woodman



ADD ALT 2 SHEET INDEX		
SHT NO	SHT	SHEET TITLE
ADD ALT 2: (SCH III) GENERAL		
95	G3-1.1	SHEET INDEX & KEY MAP
96	G3-1.2	PROJECT SITE PLAN
ADD ALT 2: PHASING		
97	G3-2.1	OVERALL CONSTRUCTION PHASING PLAN
98	G3-2.2	CONSTRUCTION PHASE 2A
99	G3-2.3	CONSTRUCTION PHASE 2B
100	G3-2.4	CONSTRUCTION PHASE 2C
101	G3-2.5	CONSTRUCTION PHASE 2D
ADD ALT 2: (SCH III) TYPICAL SECTIONS		
102	G3-3.1	TYPICAL SECTIONS
103	G3-3.2	THRESHOLD TRANSITION TYPICAL SECTION
ADD ALT 2: (SCH III) DEMOLITION PLAN		
104	D3-1.1	STA 101+00 TO STA 111+00
105	D3-1.2	STA 111+00 TO STA 120+00
106	D3-1.3	STA 120+00 TO STA 129+00
107	D3-1.4	STA 129+00 TO STA 138+00
108	D3-1.5	STA 138+00 TO STA 146+00
109	D3-1.6	STA 146+00 TO STA 156+00
ADD ALT 2: (SCH III) PAVING PLAN & PROFILE		
110	C3-1.1	STA 101+00 TO STA 111+00
111	C3-1.2	STA 111+00 TO STA 120+00
112	C3-1.3	STA 120+00 TO STA 129+00
113	C3-1.4	STA 129+00 TO STA 138+00
114	C3-1.5	STA 138+00 TO STA 146+00
115	C3-1.6	STA 146+00 TO STA 156+00
116	C3-1.7	PAVEMENT SPOT ELEVATIONS
ADD ALT 2: (SCH III) GRADING & DRAINAGE PLAN		
117	C3-2.1	STA 101+00 TO STA 111+00
118	C3-2.2	STA 111+00 TO STA 120+00
119	C3-2.3	STA 120+00 TO STA 129+00
120	C3-2.4	STA 129+00 TO STA 138+00
121	C3-2.5	STA 138+00 TO STA 146+00
122	C3-2.6	STA 146+00 TO STA 156+00
123	C3-2.7	PAPI & SEGMENTED CIRCLE GEO & GRADE
ADD ALT 2: (SCH III) PAVEMENT ELEVATION PLAN		
124	C3-3.1	STA 101+00 TO STA 111+00
125	C3-3.2	STA 111+00 TO STA 120+00
126	C3-3.3	STA 120+00 TO STA 129+00
127	C3-3.4	STA 129+00 TO STA 138+00
128	C3-3.5	STA 138+00 TO STA 146+00
129	C3-3.6	STA 146+00 TO STA 156+00
ADD ALT 2: (SCH III) JOINT LAYOUT PLAN		
130	C3-4.1	STA 101+00 TO STA 111+00
131	C3-4.2	STA 111+00 TO STA 120+00
132	C3-4.3	STA 120+00 TO STA 129+00
133	C3-4.4	STA 129+00 TO STA 138+00
134	C3-4.5	STA 138+00 TO STA 146+00
135	C3-4.6	STA 146+00 TO STA 156+00
ADD ALT 2: (SCH III) PAVEMENT MARKING PLAN		
136	C3-5.1	STA 100+00 TO STA 119+00
137	C3-5.2	STA 119+00 TO STA 139+00
138	C3-5.3	STA 139+00 TO STA 156+00
ADD ALT 2: (SCH III) STORMWATER POLLUTION PREVENTION PLAN		
139	C3-6.1	STORMWATER POLLUTION PREVENTION PLAN
ADD ALT 2: (SCH III) BORINGS		
140	GT3-1.1	BORING LOCATION MAP
141	GT3-1.2	BORING LOGS
142	GT3-1.3	BORING LOGS
ADD ALT 2: ELECTRICAL		
143	E3-2.1	AIRFIELD ELECTRICAL DEMOLITION
144	E3-2.2	AIRFIELD ELECTRICAL DEMOLITION
145	E3-2.3	AIRFIELD ELECTRICAL DEMOLITION
146	E3-2.4	AIRFIELD ELECTRICAL DEMOLITION
147	E3-2.5	AIRFIELD ELECTRICAL DEMOLITION
148	E3-2.6	AIRFIELD ELECTRICAL DEMOLITION
149	E3-2.7	AIRFIELD ELECTRICAL DEMOLITION
150	E3-2.8	AIRFIELD ELECTRICAL DEMOLITION
151	E3-2.9	AIRFIELD ELECTRICAL DEMOLITION
152	E3-2.10	AIRFIELD ELECTRICAL DEMOLITION
153	E3-2.11	AIRFIELD ELECTRICAL DEMOLITION
154	E3-2.12	AIRFIELD ELECTRICAL DEMOLITION
155	E3-3.1	AIRFIELD ELECTRICAL INSTALLATION
156	E3-3.2	AIRFIELD ELECTRICAL INSTALLATION
157	E3-3.3	AIRFIELD ELECTRICAL INSTALLATION
158	E3-3.4	AIRFIELD ELECTRICAL INSTALLATION
159	E3-3.5	AIRFIELD ELECTRICAL INSTALLATION
160	E3-3.6	AIRFIELD ELECTRICAL INSTALLATION
161	E3-3.7	AIRFIELD ELECTRICAL INSTALLATION
162	E3-3.8	AIRFIELD ELECTRICAL INSTALLATION
163	E3-3.9	AIRFIELD ELECTRICAL INSTALLATION
164	E3-3.10	AIRFIELD ELECTRICAL INSTALLATION
165	E3-3.11	AIRFIELD ELECTRICAL INSTALLATION
166	E3-3.12	AIRFIELD ELECTRICAL INSTALLATION

SCHEDULE IV SHEET INDEX		
SHT NO	SHT	SHEET TITLE
ADD ALT 2: SCHEDULE IV		
167	G4-1.0	COVER SHEET
168	G4-1.1	ABBREVIATIONS, LEGEND, AND SHEET INDEX
169	G4-1.2	GENERAL NOTES AND QUANTITIES
170	G4-1.3	ALIGNMENT DEFINITION PLAN
171	G4-1.4	PROJECT KEY MAP (40 SCALE SHEETS)
172	D4-1.1	DEMOLITION PLAN
173	D4-1.2	DEMOLITION PLAN 2
174	C4-1.1	TYPICAL SECTIONS
175	C4-2.1	GEOMETRIC LAYOUT
176	C4-2.2	GEOMETRIC LAYOUT
177	C4-3.1	PLAN AND PROFILE - TAXIWAY B2 (PROPOSED)
178	C4-4.1	PAVEMENT ELEVATION PLAN
179	C4-4.2	PAVEMENT ELEVATION PLAN
180	C4-5.1	GRADING AND DRAINAGE PLAN
181	C4-5.2	GRADING AND DRAINAGE PLAN
182	C4-6.1	STORM DRAIN PROFILE (PROPOSED STORM DRAIN 'A')
183	C4-7.1	JOINT LAYOUT PLAN
184	C4-8.1	PAVEMENT JOINT DETAILS
185	C4-9.1	PAVEMENT MARKING PLANS
186	C4-9.2	PAVEMENT MARKING PLANS
187	C4-9.3	PAVEMENT MARKING DETAILS
188	C4-9.4	PAVEMENT MARKING DETAILS
189	C4-9.5	TEMPORARY SERVICE ROAD MARKING DETAILS
190	C4-10.1	STORMWATER POLLUTION PREVENTION PLAN
191	C4-10.2	STORMWATER POLLUTION PREVENTION PLAN
192	C4-10.3	STORMWATER POLLUTION PREVENTION PLAN DETAILS
193	C4-11.1	PROJECT DETAILS
194	C4-11.2	PROJECT DETAILS
195	C4-11.3	PROJECT DETAILS
196	C4-12.1	BORING LOGS
197	E4-0.1	ELECTRICAL SCOPE OF WORK
198	E4-1.1	ELECTRICAL DEMOLITION
199	E4-1.2	ELECTRICAL DEMOLITION
200	E4-2.1	ELECTRICAL LAYOUT
201	E4-2.2	ELECTRICAL LAYOUT
202	E4-2.3	ELECTRICAL TABLES
203	E4-3.1	SIGN DETAILS
204	E4-3.2	ELEVATED LIGHT DETAILS
205	E4-3.3	GROUNDING DETAILS
206	E4-3.4	DUCT BANK DETAILS
207	E4-3.5	HAND HOLE DETAILS
208	E4-3.6	TEMPORARY LIGHTING DETAILS
209	E4-3.7	RGL DETAILS
210	E4-4.1	CIRCUIT MAP
211	E4-4.2	CIRCUIT MAP

REV	DATE	DESCRIPTION



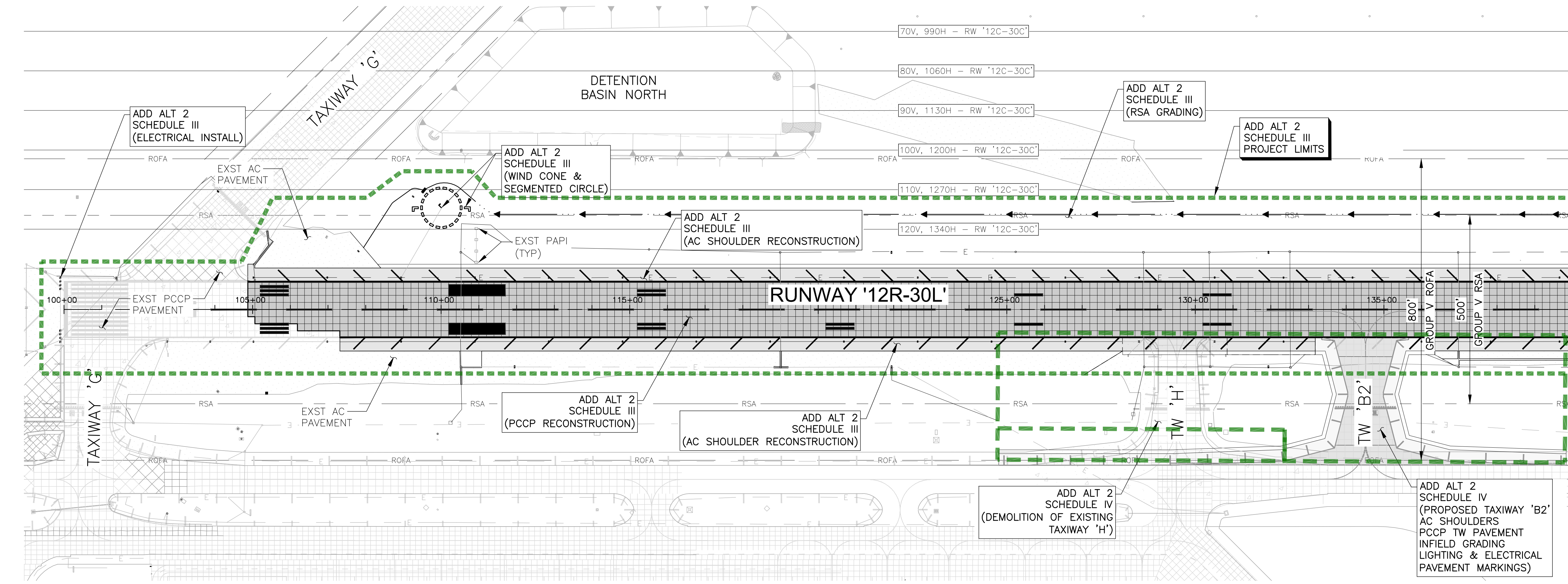
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DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	2003_2303-G3-1-X-GNRL_AA2



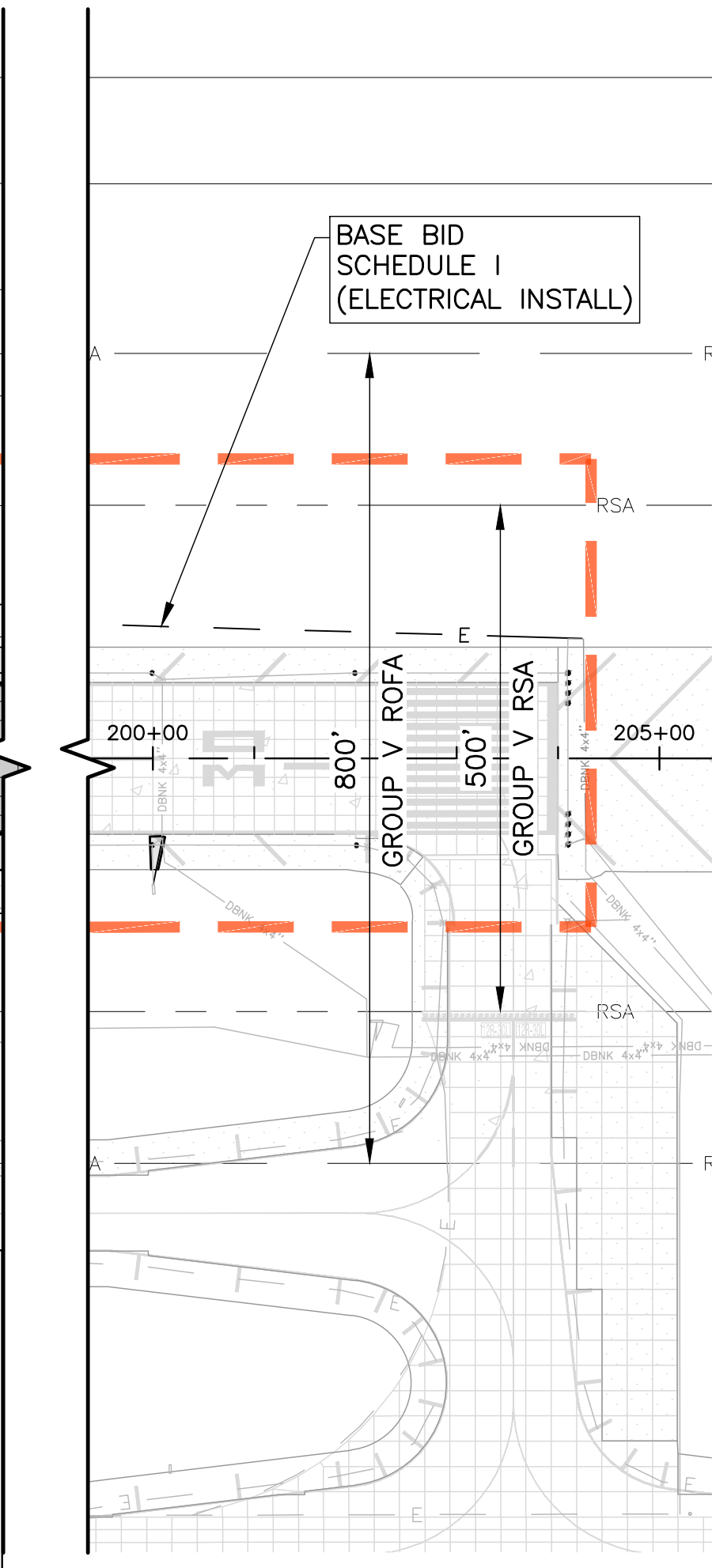
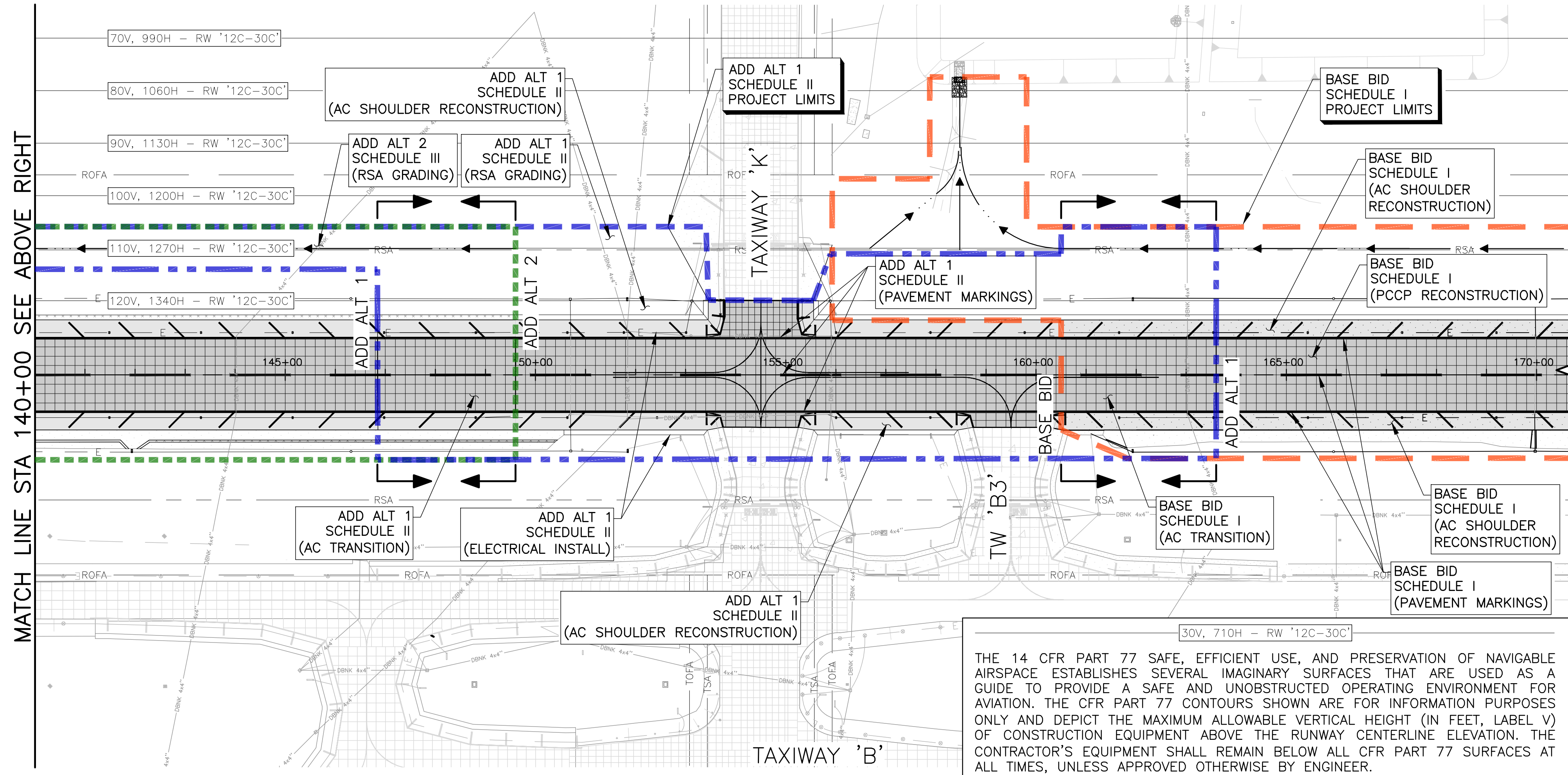
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) SHEET INDEX & KEY MAP**



FILE: 2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-G3-1_X-GNRL_AA2.dwg DATE: April 26, 2023 TIME: 12:25 PM BY: trovis woodman



MATCH LINE STA 140+00 SEE BELOW LEFT

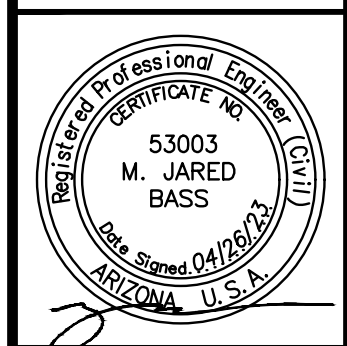
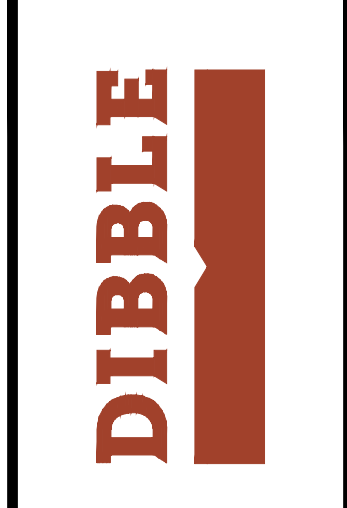


LEGEND

	BASE BID SCHEDULE I PROJECT LIMITS
	ADD ALT 1 SCHEDULE II PROJECT LIMITS
	ADD ALT 2 SCHEDULE III PROJECT LIMITS
	ADD ALT 2 SCHEDULE IV PROJECT LIMITS

THE 14 CFR PART 77 SAFE, EFFICIENT USE, AND PRESERVATION OF NAVIGABLE AIRSPACE ESTABLISHES SEVERAL IMAGINARY SURFACES THAT ARE USED AS A GUIDE TO PROVIDE A SAFE AND UNOBSTRUCTED OPERATING ENVIRONMENT FOR AVIATION. THE CFR PART 77 CONTOURS SHOWN ARE FOR INFORMATION PURPOSES ONLY AND DEPICT THE MAXIMUM ALLOWABLE VERTICAL HEIGHT (IN FEET, LABEL V) OF CONSTRUCTION EQUIPMENT ABOVE THE RUNWAY CENTERLINE ELEVATION. THE CONTRACTOR'S EQUIPMENT SHALL REMAIN BELOW ALL CFR PART 77 SURFACES AT ALL TIMES, UNLESS APPROVED OTHERWISE BY ENGINEER.

REV	DATE	DESCRIPTION



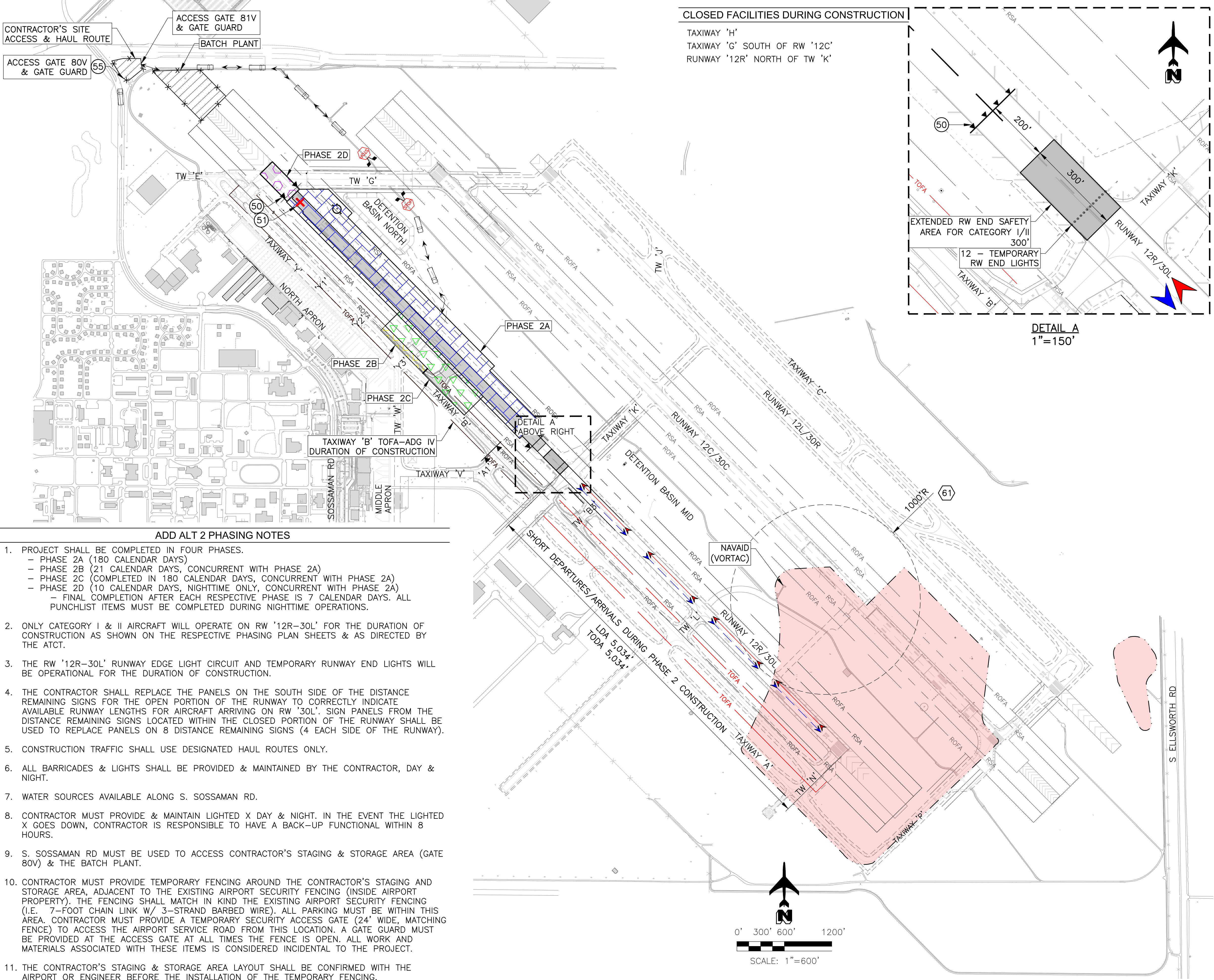
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G3-1_X-GNRL_AA2



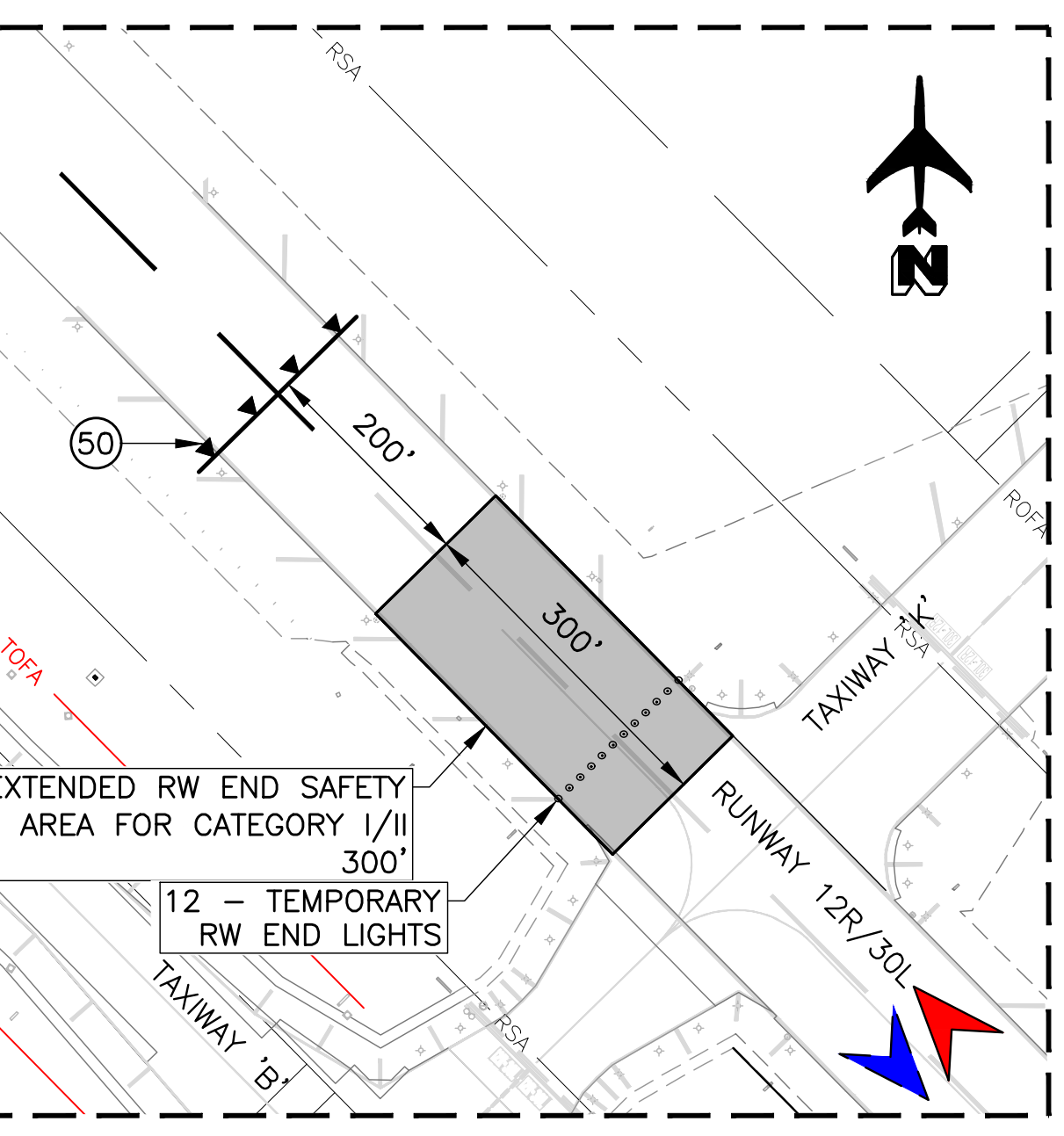
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PROJECT SITE PLAN**



FILE: \\2020\102002\32303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-03-2_X-PHASE_AA2.dwg DATE: April 26, 2023 TIME: 12:28 PM BY: trovis woodman



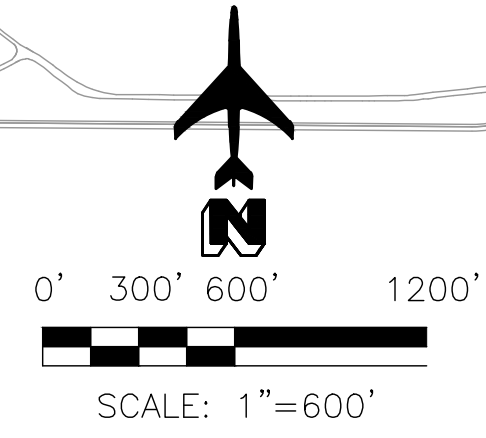
CLOSED FACILITIES DURING CONSTRUCTION
 TAXIWAY 'H'
 TAXIWAY 'G' SOUTH OF RW '12C'
 RUNWAY '12R' NORTH OF TW 'K'



DETAIL A
1"=150'

ADD ALT 2 PHASING NOTES

- PROJECT SHALL BE COMPLETED IN FOUR PHASES.
 - PHASE 2A (180 CALENDAR DAYS)
 - PHASE 2B (21 CALENDAR DAYS, CONCURRENT WITH PHASE 2A)
 - PHASE 2C (COMPLETED IN 180 CALENDAR DAYS, CONCURRENT WITH PHASE 2A)
 - PHASE 2D (10 CALENDAR DAYS, NIGHTTIME ONLY, CONCURRENT WITH PHASE 2A)
 - FINAL COMPLETION AFTER EACH RESPECTIVE PHASE IS 7 CALENDAR DAYS. ALL PUNCHLIST ITEMS MUST BE COMPLETED DURING NIGHTTIME OPERATIONS.
- ONLY CATEGORY I & II AIRCRAFT WILL OPERATE ON RW '12R-30L' FOR THE DURATION OF CONSTRUCTION AS SHOWN ON THE RESPECTIVE PHASING PLAN SHEETS & AS DIRECTED BY THE ATCT.
- THE RW '12R-30L' RUNWAY EDGE LIGHT CIRCUIT AND TEMPORARY RUNWAY END LIGHTS WILL BE OPERATIONAL FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL REPLACE THE PANELS ON THE SOUTH SIDE OF THE DISTANCE REMAINING SIGNS FOR THE OPEN PORTION OF THE RUNWAY TO CORRECTLY INDICATE AVAILABLE RUNWAY LENGTHS FOR AIRCRAFT ARRIVING ON RW '30L'. SIGN PANELS FROM THE DISTANCE REMAINING SIGNS LOCATED WITHIN THE CLOSED PORTION OF THE RUNWAY SHALL BE USED TO REPLACE PANELS ON 8 DISTANCE REMAINING SIGNS (4 EACH SIDE OF THE RUNWAY).
- CONSTRUCTION TRAFFIC SHALL USE DESIGNATED HAUL ROUTES ONLY.
- ALL BARRICADES & LIGHTS SHALL BE PROVIDED & MAINTAINED BY THE CONTRACTOR, DAY & NIGHT.
- WATER SOURCES AVAILABLE ALONG S. SOSSAMAN RD.
- CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.
- S. SOSSAMAN RD MUST BE USED TO ACCESS CONTRACTOR'S STAGING & STORAGE AREA (GATE 80V) & THE BATCH PLANT.
- CONTRACTOR MUST PROVIDE TEMPORARY FENCING AROUND THE CONTRACTOR'S STAGING AND STORAGE AREA, ADJACENT TO THE EXISTING AIRPORT SECURITY FENCING (INSIDE AIRPORT PROPERTY). THE FENCING SHALL MATCH IN KIND THE EXISTING AIRPORT SECURITY FENCING (I.E. 7-FOOT CHAIN LINK W/ 3-STRAND BARBED WIRE). ALL PARKING MUST BE WITHIN THIS AREA. CONTRACTOR MUST PROVIDE A TEMPORARY SECURITY ACCESS GATE (24' WIDE, MATCHING FENCE) TO ACCESS THE AIRPORT SERVICE ROAD FROM THIS LOCATION. A GATE GUARD MUST BE PROVIDED AT THE ACCESS GATE AT ALL TIMES THE FENCE IS OPEN. ALL WORK AND MATERIALS ASSOCIATED WITH THESE ITEMS IS CONSIDERED INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR'S STAGING & STORAGE AREA LAYOUT SHALL BE CONFIRMED WITH THE AIRPORT OR ENGINEER BEFORE THE INSTALLATION OF THE TEMPORARY FENCING.



CONSTRUCTION NOTES		
50	LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1	NPI
51	LIGHTED 'X' FOR RUNWAY '12R' CLOSURE, PROVIDED & MAINTAINED BY THE CONTRACTOR. DET 1, SHT G1-2.1.	NPI
55	CONTRACTOR SHALL PROVIDE A LOCK TO BE INTERLOCKED W/AIRPORT LOCK. A GATE GUARD SHALL BE PROVIDED WHENEVER THE GATE IS LEFT OPEN.	NPI
REFERENCE NOTES		
61	CONTRACTOR SHALL NOT STAGE EQUIPMENT OR MATERIALS IN NAVAID CRITICAL AREA	

AIRPORT CRITICAL AREAS			
RUNWAY '12L-30R'	RSA	ROFA	ROFZ
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
TAXIWAY 'G'	TSA	TOFA	
TAXIWAY 'K'	171'	243'	
TAXIWAY 'B'	171'	243'	

LEGEND	
	PHASE 2A - 180 CALENDAR DAYS
	PHASE 2B - 21 CALENDAR DAYS - CONCURRENT WITH PHASE 2A
	PHASE 2C - 180 CALENDAR DAYS - CONCURRENT WITH PHASE 2A
	PHASE 2D - 10 CALENDAR DAYS (NIGHTTIME ONLY) - CONCURRENT WITH PHASE 2A
	ARRIVALS
	DEPARTURES
	CONTRACTOR'S HAUL ROUTE
	HAUL ROUTE CROSSING: STOP SIGNS W/ FLAGGER
	CONTRACTOR'S STAGING & STORAGE AREA
	WILL E. COYOTE AZ U:10:127 (ASM) ARCHAEOLOGICAL SITE
	RUNWAY END SAFETY AREA (CATEGORY I/II)
	TEMPORARY RUNWAY CLOSURE LIGHTED 'X'

REV	DATE	DESCRIPTION

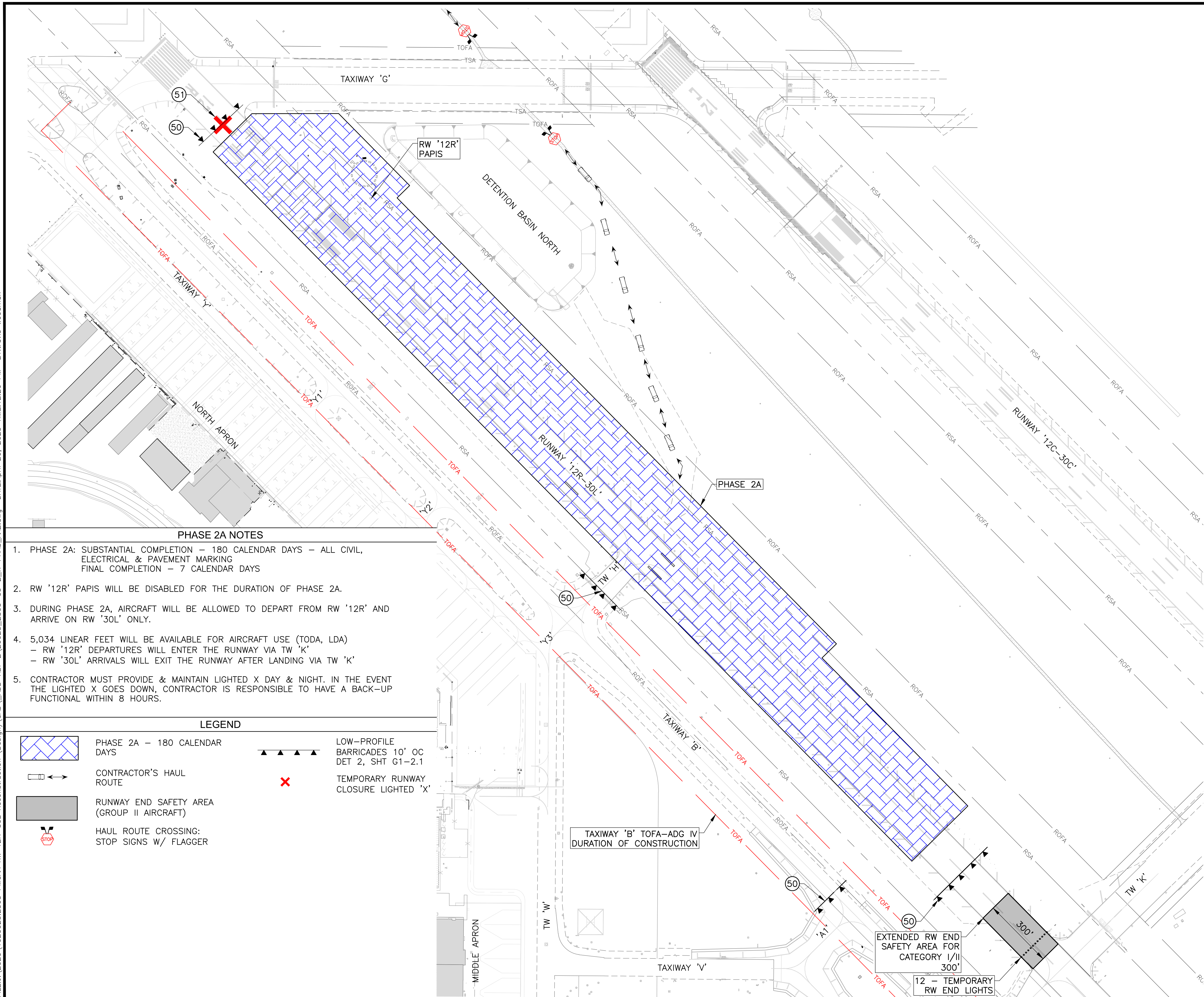
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DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G3-2_X-PHASE_AA2

**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) (SCH III) PHASING
 OVERALL CONSTRUCTION PHASING PLAN**



FILE: \\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD_ADD-ALT-2\20023-2303-G3-2_X-PHAS_AA2.dwg DATE: April 26, 2023 TIME: 12:28 PM BY: trovis woodman



PHASE 2A NOTES

1. PHASE 2A: SUBSTANTIAL COMPLETION - 180 CALENDAR DAYS - ALL CIVIL, ELECTRICAL & PAVEMENT MARKING
FINAL COMPLETION - 7 CALENDAR DAYS
2. RW '12R' PAPIS WILL BE DISABLED FOR THE DURATION OF PHASE 2A.
3. DURING PHASE 2A, AIRCRAFT WILL BE ALLOWED TO DEPART FROM RW '12R' AND ARRIVE ON RW '30L' ONLY.
4. 5,034 LINEAR FEET WILL BE AVAILABLE FOR AIRCRAFT USE (TODA, LDA)
- RW '12R' DEPARTURES WILL ENTER THE RUNWAY VIA TW 'K'
- RW '30L' ARRIVALS WILL EXIT THE RUNWAY AFTER LANDING VIA TW 'K'
5. CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.

LEGEND

- PHASE 2A - 180 CALENDAR DAYS
- CONTRACTOR'S HAUL ROUTE
- RUNWAY END SAFETY AREA (GROUP II AIRCRAFT)
- HAUL ROUTE CROSSING: STOP SIGNS W/ FLAGGER
- LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1
- TEMPORARY RUNWAY CLOSURE LIGHTED 'X'

- CONSTRUCTION NOTES**
- 50 LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1 NPI
 - 51 LIGHTED 'X' FOR RUNWAY '12R' CLOSURE. PROVIDED & MAINTAINED BY THE CONTRACTOR. DET 1, SHT G1-2.1. NPI

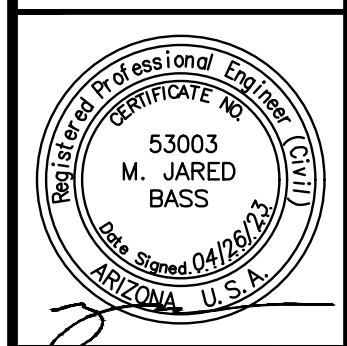
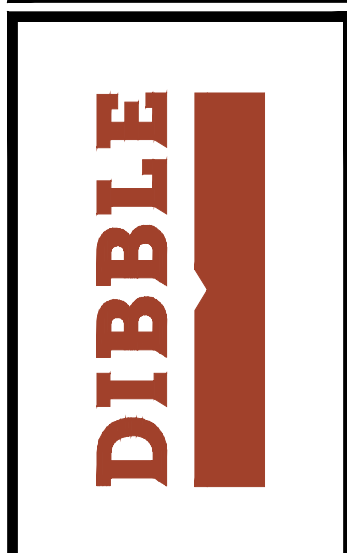
AIRPORT CRITICAL AREAS

	RSA	ROFA	ROFZ
RUNWAY '12L-30R'	500'	800'	400'
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
	TSA	TOFA	
TAXIWAY 'G'	171'	243'	
TAXIWAY 'K'	171'	243'	
TAXIWAY 'B'	171'	243'	

CLOSED FACILITIES DURING CONSTRUCTION

TAXIWAY 'H'
RUNWAY '12R' NORTH OF TW 'K' TO TW 'G' TOFA

REV	DATE	DESCRIPTION

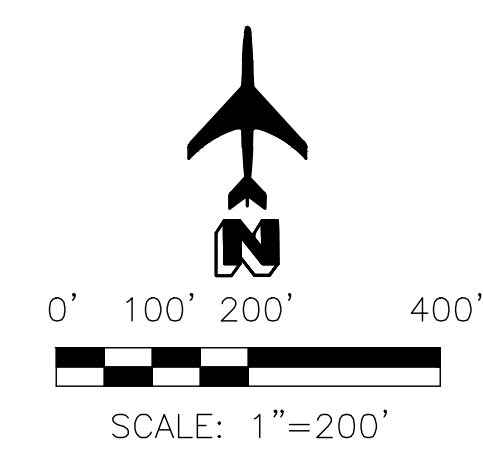


DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
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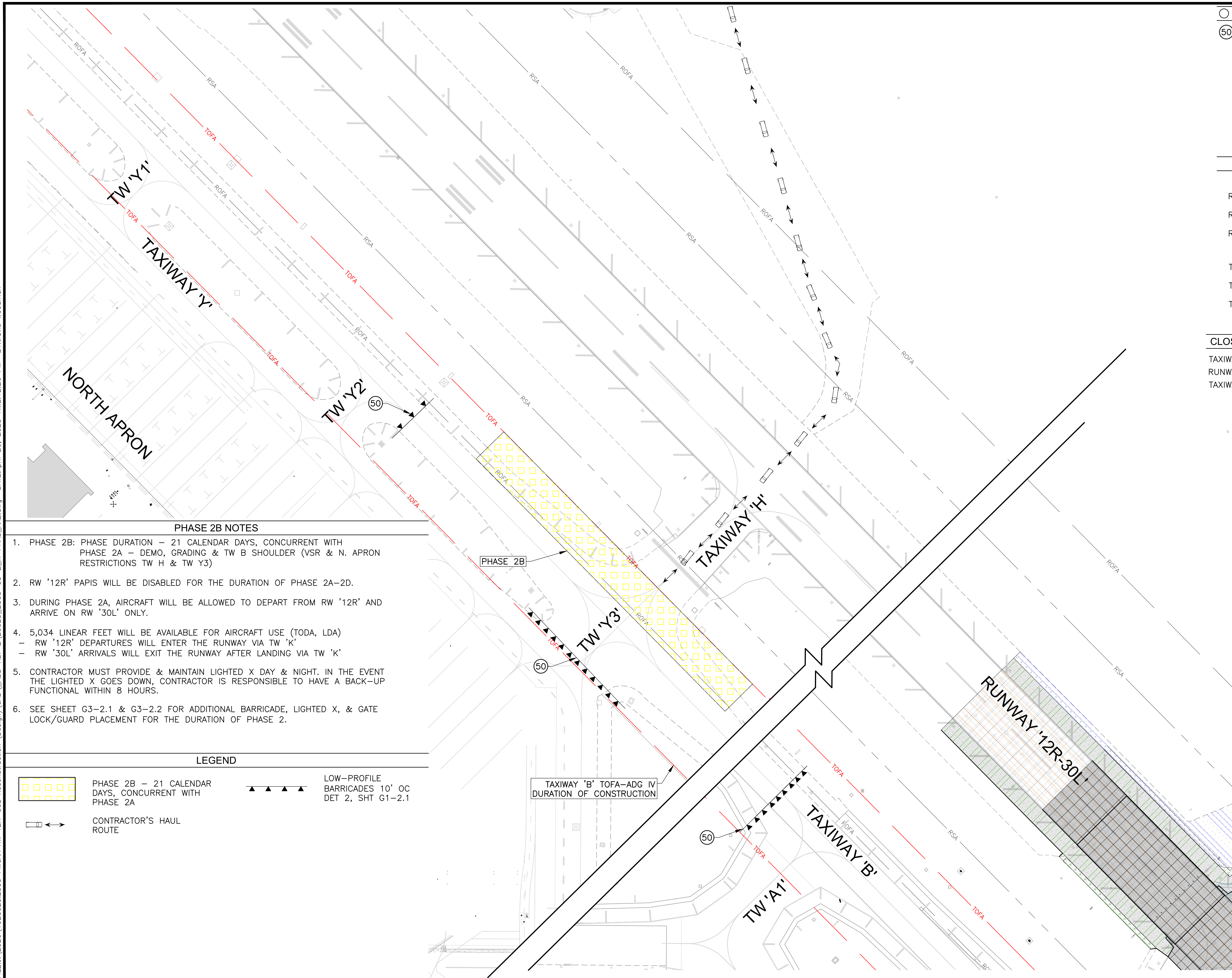


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) (SCH III) PHASING
CONSTRUCTION PHASE 2A**

G3-2.2
SHEET NO.
98 OF **211**



FILE:\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD_ADD-ALT-2\20023_2303-G3-2_X-PHAS-AA2.dwg DATE:April 26, 2023 TIME:12:28 PM BY:trovis woodman

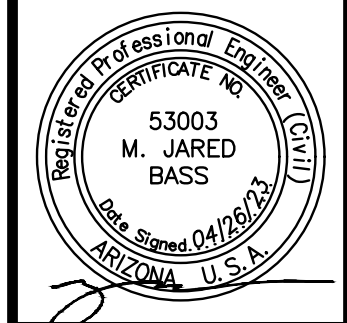
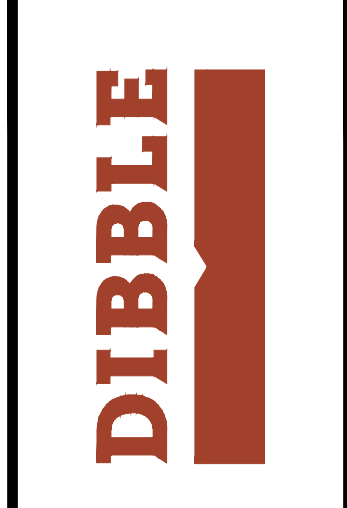


CONSTRUCTION NOTES		
(50)	LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1	NPI

AIRPORT CRITICAL AREAS			
RUNWAY '12L-30R'	RSA	ROFA	ROFZ
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
TAXIWAY 'G'	TSA	TOFA	
TAXIWAY 'K'	171'	243'	
TAXIWAY 'B'	171'	243'	

CLOSED FACILITIES DURING CONSTRUCTION
 TAXIWAY 'H' & TAXIWAY 'Y3'
 RUNWAY '12R' NORTH OF TW 'K' TO TW 'G' TOFA
 TAXIWAY 'B' BETWEEN TW 'A1' AND TW 'Y2'

REV	DATE	DESCRIPTION



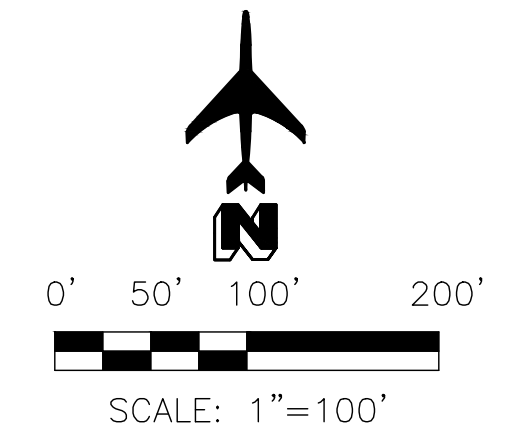
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REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-G3-2_X-PHAS_AA2



- PHASE 2B NOTES**
- PHASE 2B: PHASE DURATION - 21 CALENDAR DAYS, CONCURRENT WITH PHASE 2A - DEMO, GRADING & TW B SHOULDER (VSR & N. APRON RESTRICTIONS TW H & TW Y3)
 - RW '12R' PAPIs WILL BE DISABLED FOR THE DURATION OF PHASE 2A-2D.
 - DURING PHASE 2A, AIRCRAFT WILL BE ALLOWED TO DEPART FROM RW '12R' AND ARRIVE ON RW '30L' ONLY.
 - 5,034 LINEAR FEET WILL BE AVAILABLE FOR AIRCRAFT USE (TODA, LDA)
 - RW '12R' DEPARTURES WILL ENTER THE RUNWAY VIA TW 'K'
 - RW '30L' ARRIVALS WILL EXIT THE RUNWAY AFTER LANDING VIA TW 'K'
 - CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.
 - SEE SHEET G3-2.1 & G3-2.2 FOR ADDITIONAL BARRICADE, LIGHTED X, & GATE LOCK/GUARD PLACEMENT FOR THE DURATION OF PHASE 2.

LEGEND

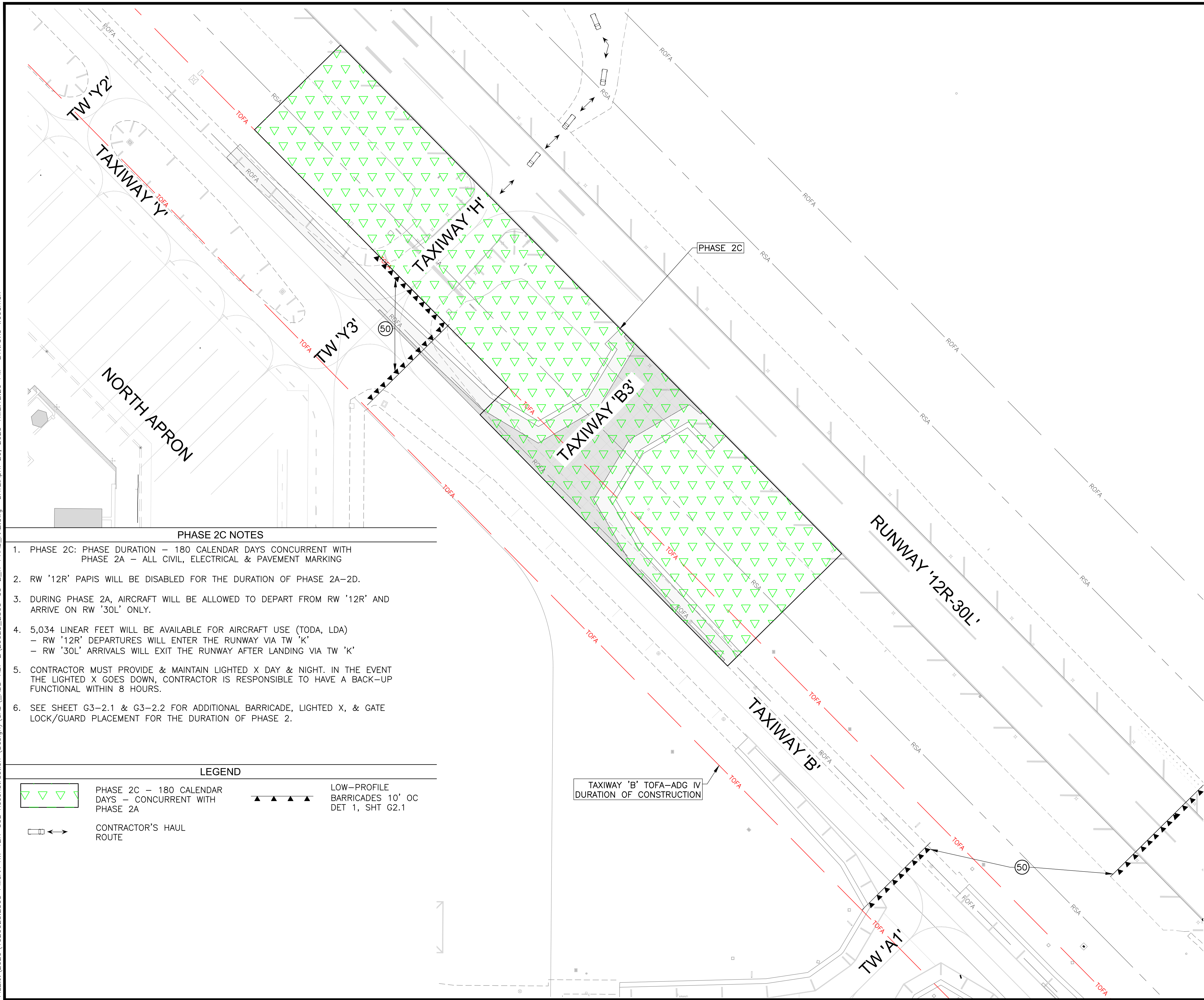
	PHASE 2B - 21 CALENDAR DAYS, CONCURRENT WITH PHASE 2A		LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1
	CONTRACTOR'S HAUL ROUTE		



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH IV) (SCH III) PHASING
 CONSTRUCTION PHASE 2B**

G3-2.3
 SHEET NO.
 99 OF 211

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PHASE 2C NOTES

1. PHASE 2C: PHASE DURATION - 180 CALENDAR DAYS CONCURRENT WITH PHASE 2A - ALL CIVIL, ELECTRICAL & PAVEMENT MARKING
2. RW '12R' PAPIs WILL BE DISABLED FOR THE DURATION OF PHASE 2A-2D.
3. DURING PHASE 2A, AIRCRAFT WILL BE ALLOWED TO DEPART FROM RW '12R' AND ARRIVE ON RW '30L' ONLY.
4. 5,034 LINEAR FEET WILL BE AVAILABLE FOR AIRCRAFT USE (TODA, LDA)
 - RW '12R' DEPARTURES WILL ENTER THE RUNWAY VIA TW 'K'
 - RW '30L' ARRIVALS WILL EXIT THE RUNWAY AFTER LANDING VIA TW 'K'
5. CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.
6. SEE SHEET G3-2.1 & G3-2.2 FOR ADDITIONAL BARRICADE, LIGHTED X, & GATE LOCK/GUARD PLACEMENT FOR THE DURATION OF PHASE 2.

LEGEND

- PHASE 2C - 180 CALENDAR DAYS - CONCURRENT WITH PHASE 2A
- LOW-PROFILE BARRICADES 10' OC DET 1, SHT G2.1
- CONTRACTOR'S HAUL ROUTE

CONSTRUCTION NOTES

50	LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1	NPI
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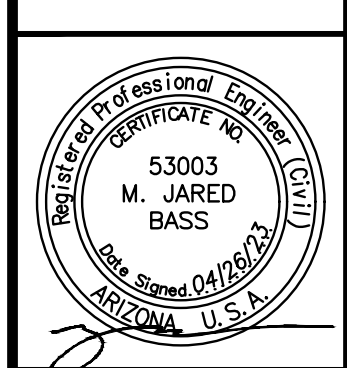
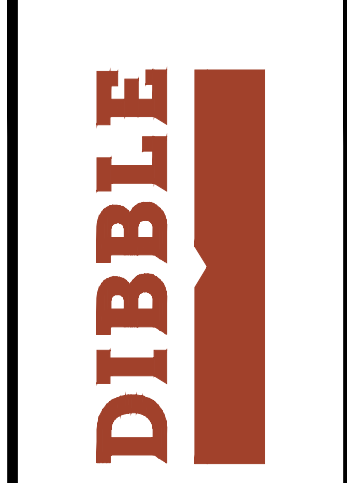
AIRPORT CRITICAL AREAS

	RSA	ROFA	ROFZ
RUNWAY '12L-30R'	500'	800'	400'
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
	TSA	TOFA	
TAXIWAY 'G'	171'	243'	
TAXIWAY 'K'	171'	243'	
TAXIWAY 'B'	171'	243'	

CLOSED FACILITIES DURING CONSTRUCTION

TAXIWAY 'H'
 RUNWAY '12R' NORTH OF TW 'K' TO TW 'G' TOFA
 TAXIWAY 'B' BETWEEN TW 'A1' AND TW 'Y3'

REV	DATE	DESCRIPTION

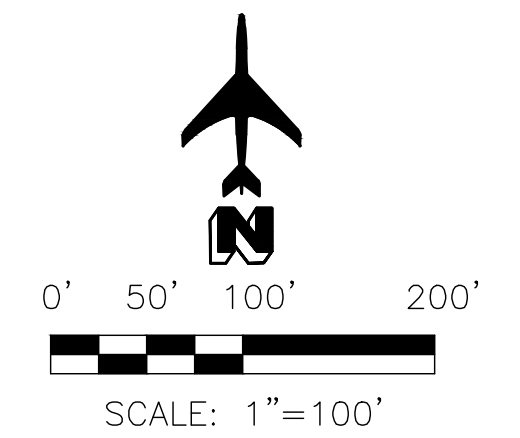


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DESIGNED BY:	CMR
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REVIEWED BY:	MJB/KLS
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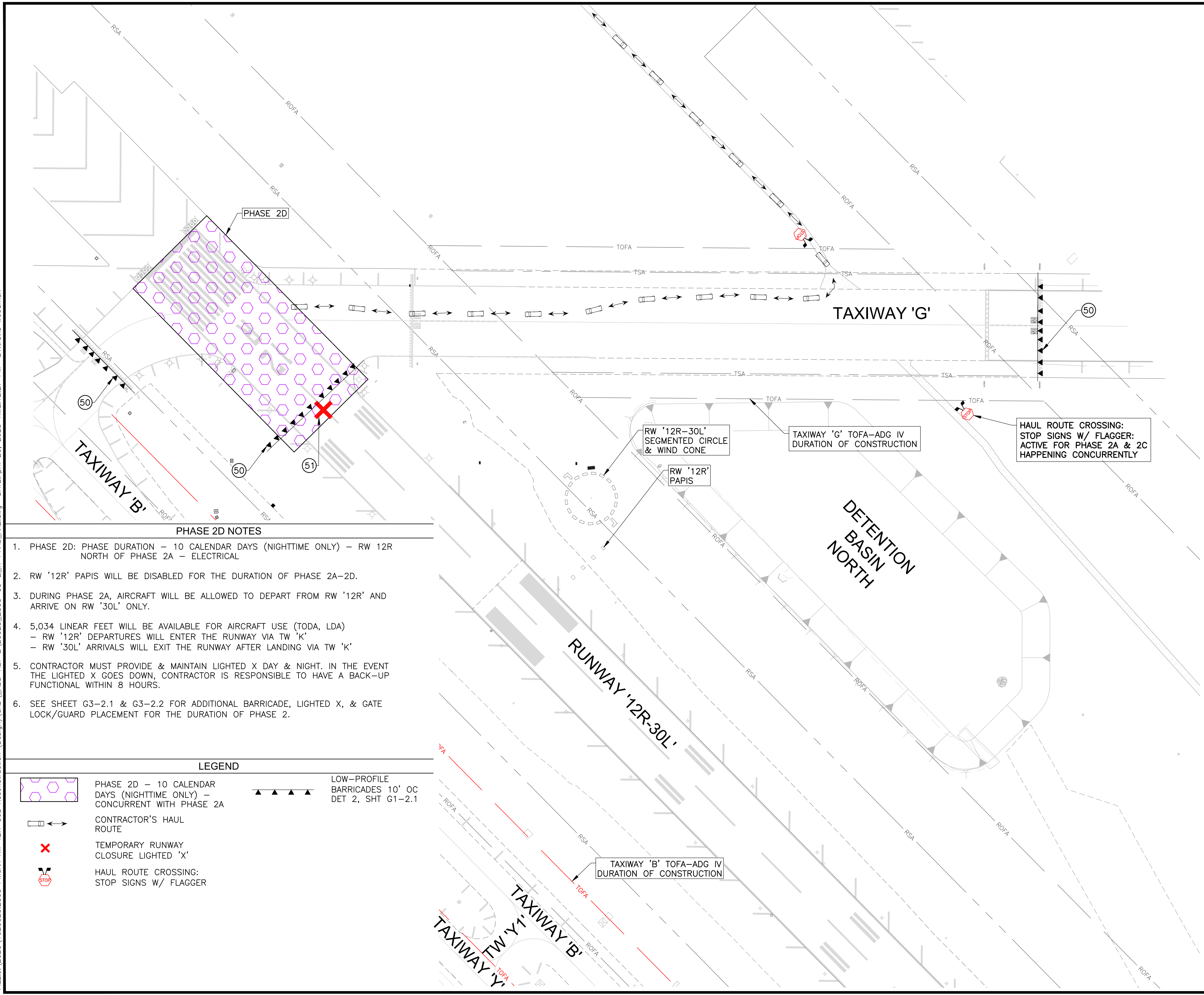


**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH IV) (SCH III) PHASING
 CONSTRUCTION PHASE 2C**

G3-2.4
 SHEET NO.
 100 OF 211



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PHASE 2D NOTES

1. PHASE 2D: PHASE DURATION - 10 CALENDAR DAYS (NIGHTTIME ONLY) - RW 12R NORTH OF PHASE 2A - ELECTRICAL
2. RW '12R' PAPIS WILL BE DISABLED FOR THE DURATION OF PHASE 2A-2D.
3. DURING PHASE 2A, AIRCRAFT WILL BE ALLOWED TO DEPART FROM RW '12R' AND ARRIVE ON RW '30L' ONLY.
4. 5,034 LINEAR FEET WILL BE AVAILABLE FOR AIRCRAFT USE (TODA, LDA)
 - RW '12R' DEPARTURES WILL ENTER THE RUNWAY VIA TW 'K'
 - RW '30L' ARRIVALS WILL EXIT THE RUNWAY AFTER LANDING VIA TW 'K'
5. CONTRACTOR MUST PROVIDE & MAINTAIN LIGHTED X DAY & NIGHT. IN THE EVENT THE LIGHTED X GOES DOWN, CONTRACTOR IS RESPONSIBLE TO HAVE A BACK-UP FUNCTIONAL WITHIN 8 HOURS.
6. SEE SHEET G3-2.1 & G3-2.2 FOR ADDITIONAL BARRICADE, LIGHTED X, & GATE LOCK/GUARD PLACEMENT FOR THE DURATION OF PHASE 2.

LEGEND

- PHASE 2D - 10 CALENDAR DAYS (NIGHTTIME ONLY) - CONCURRENT WITH PHASE 2A
- LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1
- CONTRACTOR'S HAUL ROUTE
- TEMPORARY RUNWAY CLOSURE LIGHTED 'X'
- HAUL ROUTE CROSSING: STOP SIGNS W/ FLAGGER

CONSTRUCTION NOTES		
50	LOW-PROFILE BARRICADES 10' OC DET 2, SHT G1-2.1	NPI
51	LIGHTED 'X' FOR RUNWAY '12R' CLOSURE. PROVIDED & MAINTAINED BY THE CONTRACTOR. DET 1, SHT G1-2.1.	NPI

AIRPORT CRITICAL AREAS			
	RSA	ROFA	ROFZ
RUNWAY '12L-30R'	500'	800'	400'
RUNWAY '12C-30C'	500'	800'	400'
RUNWAY '12R-30L'	500'	800'	400'
TAXIWAY 'G'	171'	243'	
TAXIWAY 'K'	171'	243'	
TAXIWAY 'B'	171'	243'	

CLOSED FACILITIES DURING CONSTRUCTION

TAXIWAY 'H'
 RUNWAY '12R' NORTH OF TW 'K'
 TAXIWAY 'G' (NIGHT TIME ONLY)

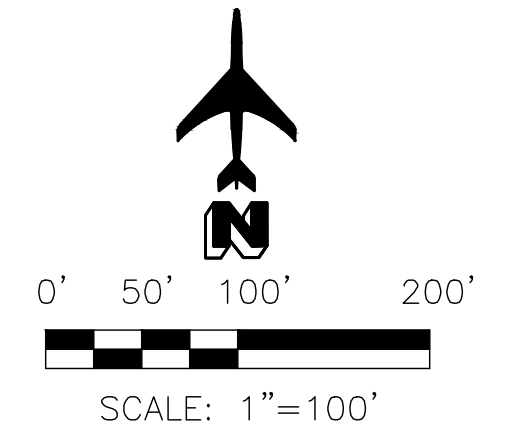
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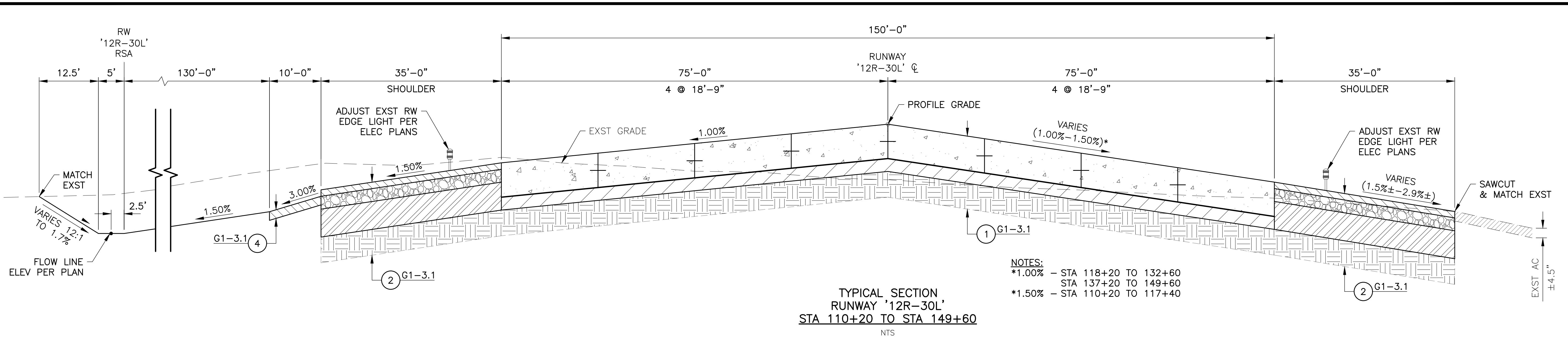
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REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-G3-2_X-PHAS-AA2



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH IV) (SCH III) PHASING
 CONSTRUCTION PHASE 2D**

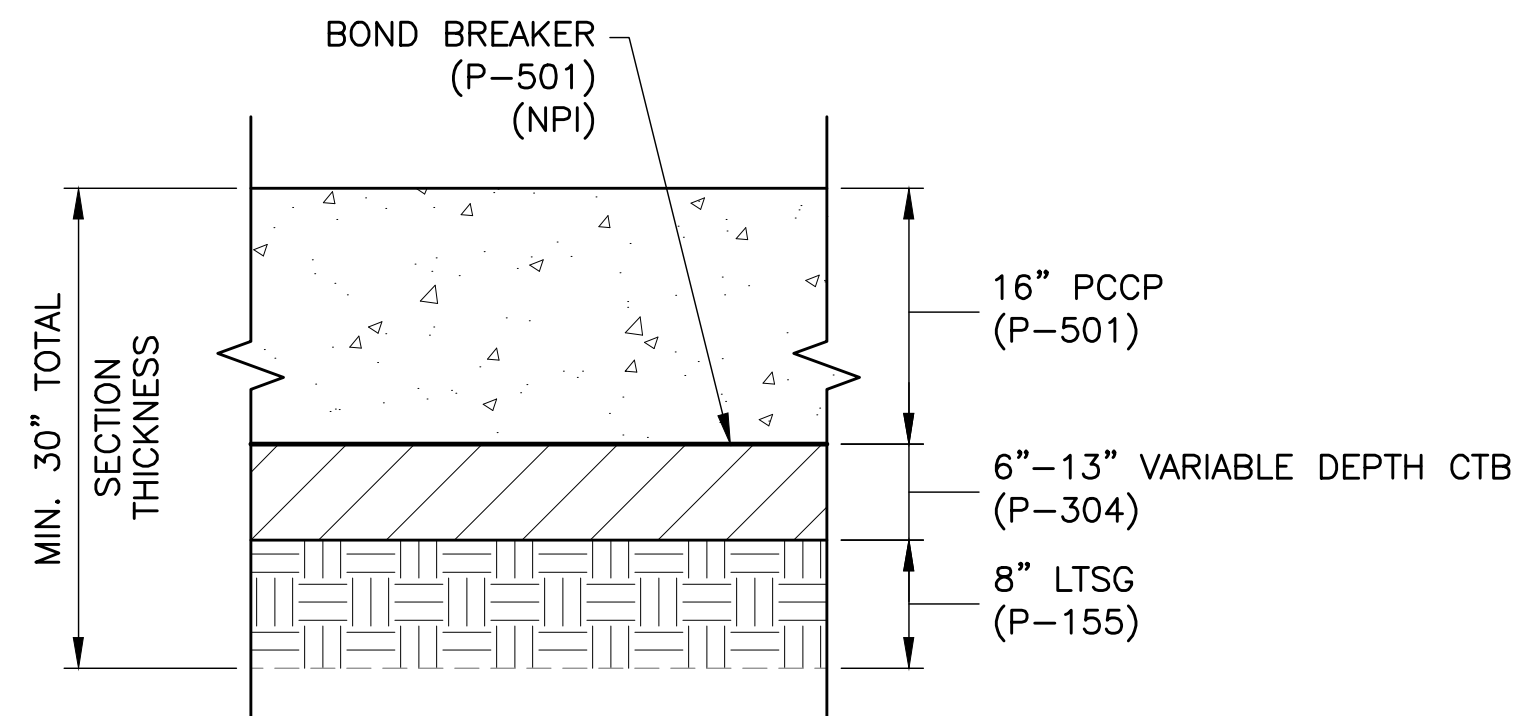


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TYPICAL SECTION
 RUNWAY '12R-30L'
 STA 110+20 TO STA 149+60
 NTS

NOTES:
 *1.00% - STA 118+20 TO 132+60
 *1.50% - STA 137+20 TO 149+60
 *1.50% - STA 110+20 TO 117+40



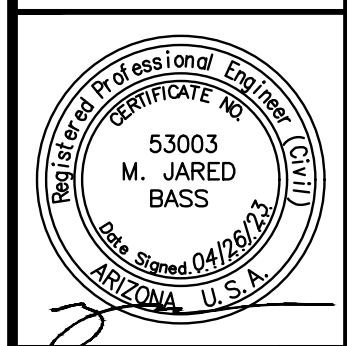
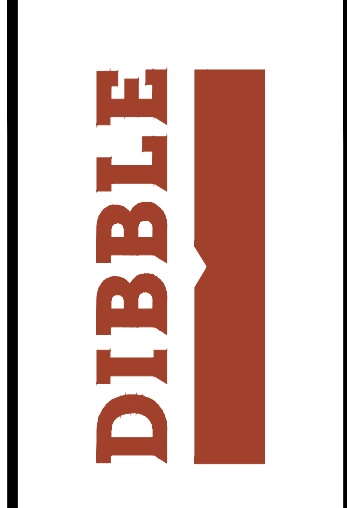
NOTE:
 1. THIS PAVEMENT SECTION IS SPECIFIC TO ADD ALT 2 (SCH III ONLY), STA 106+57.20 TO STA 110+20. SEE SHEET D3-1.1, C3-1.1 & C3-1.7.

1 RUNWAY THRESHOLD TRANSITION PCC PAVEMENT SECTION
 106+57.20 STA TO STA 110+20
 NTS

GENERAL NOTES

- CONTRACTOR SHALL ANTICIPATE TREATED SUBGRADE AND/OR CLSM BACKFILL MATERIAL UNDER EXISTING AC SHOULDERS.
- BETWEEN STATION 104+87.45 AND 109+90.83 CONTRACTOR SHALL PROTECT EXISTING CTB IN PLACE DURING DEMOLITION OF THE OVERLYING PCCP.

REV	DATE	DESCRIPTION



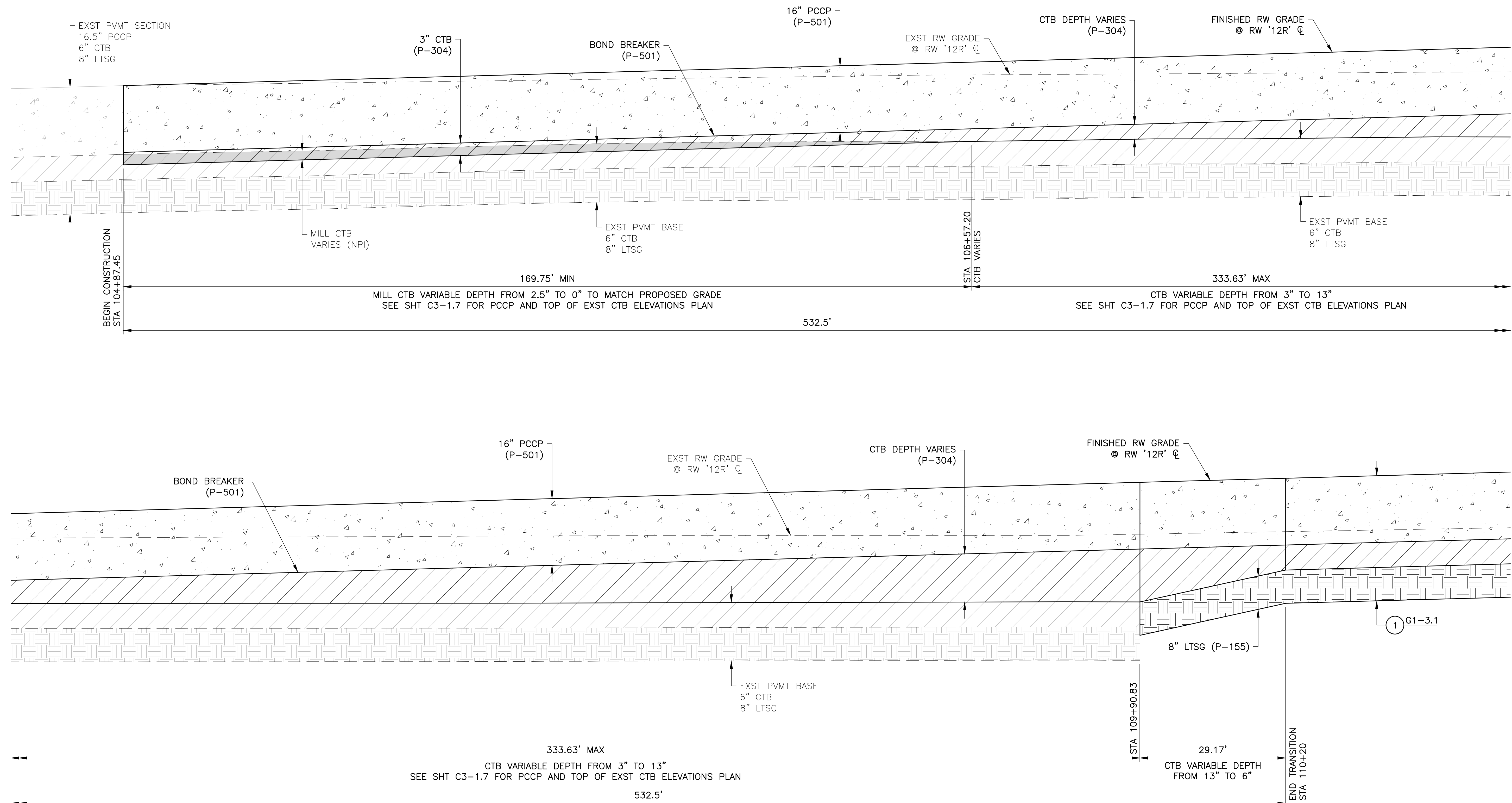
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DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-03-3-X-SECT_AA2



RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 TYPICAL SECTIONS



FILE: \\2020\10200203\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-2\200203-2303-G3-3_X-SECT_AA2.dwg DATE: April 26, 2023 TIME: 12:27 PM BY: travis.woodman



RUNWAY THRESHOLD TRANSITION PAVEMENT
 @ RW '12R-30L' CENTERLINE
 104+87.45 TO 110+20
 NTS

- GENERAL NOTES**
- CONTRACTOR SHALL ANTICIPATE TREATED SUBGRADE AND/OR CLSM BACKFILL MATERIAL UNDER EXISTING AC SHOULDERS.
 - BETWEEN STATION 104+87.45 AND 109+90.83 CONTRACTOR SHALL PROTECT EXISTING CTB IN PLACE DURING DEMOLITION OF THE OVERLYING PCCP.



REV	DATE	DESCRIPTION

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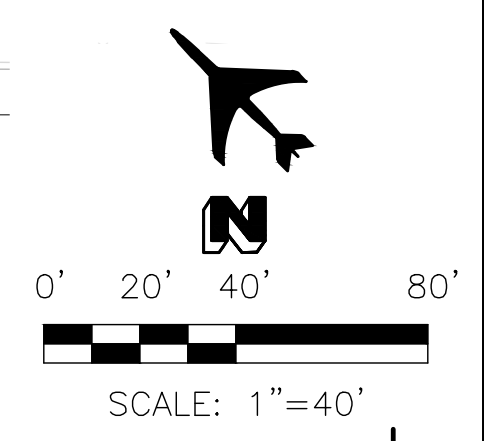
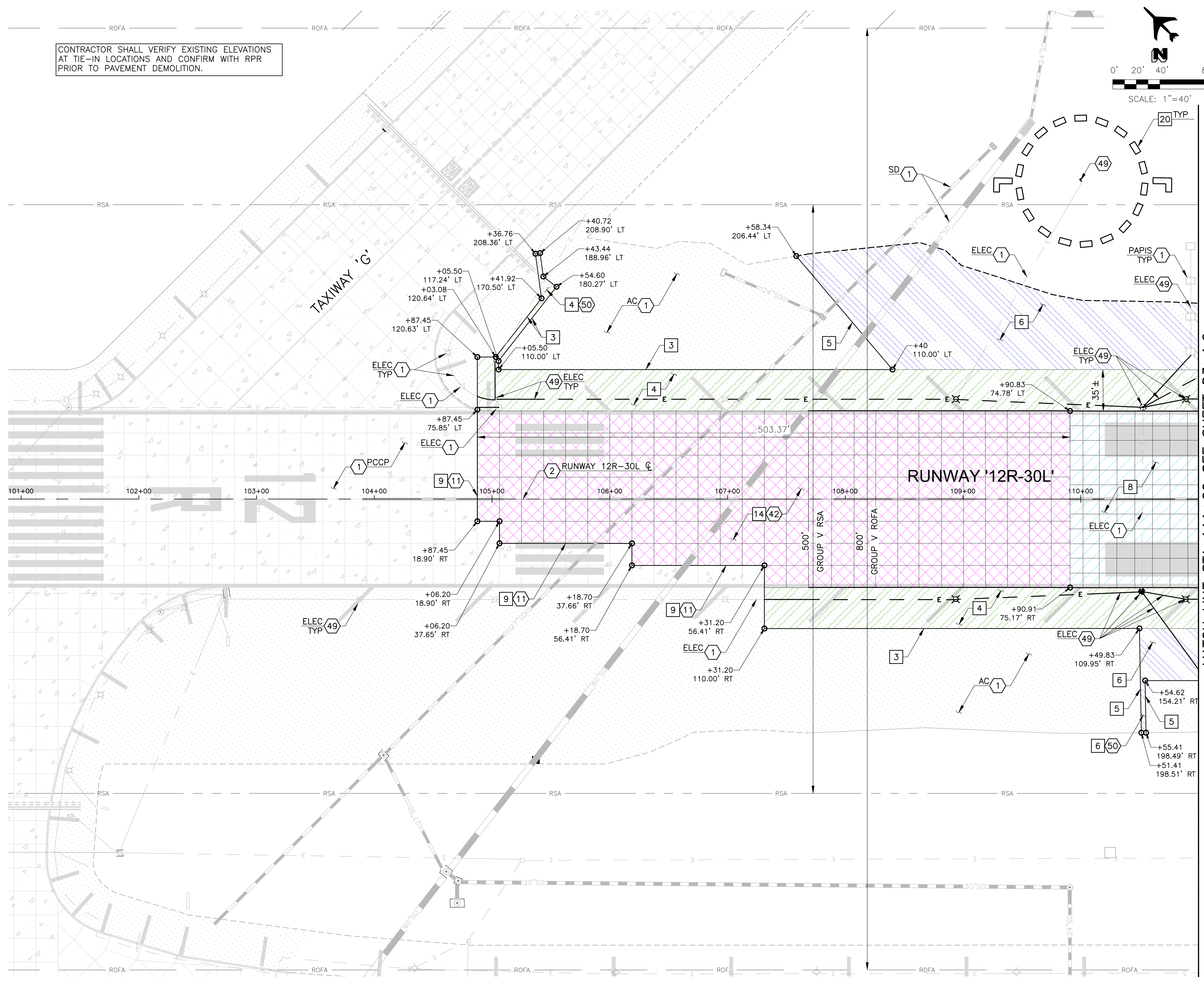
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FILE NAME:	2002_2303-G3-3_X-SECT_AA2



RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
THRESHOLD PAVEMENT
TRANSITION

FILE: 2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023-2303-D3-1-X-DEMO-AA2.dwg DATE: April 26, 2023 TIME: 12:27 PM BY: trowis woodman

CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.

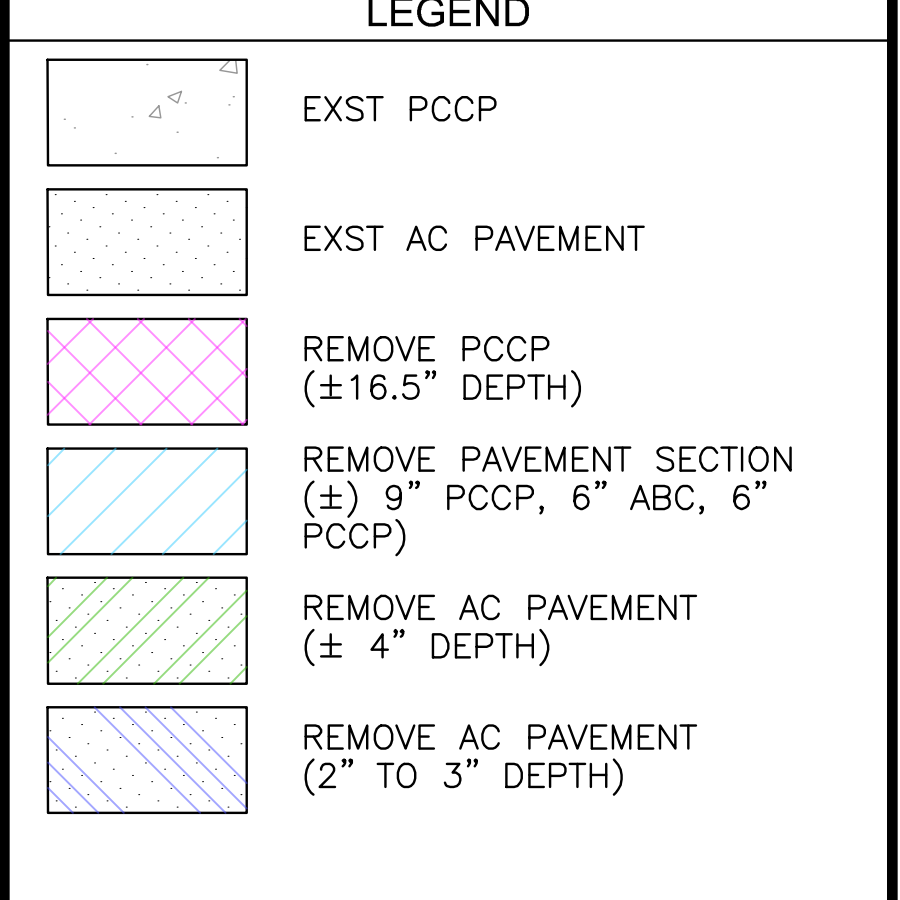


MATCH LINE STA 111+00 SEE SHEET D3-1.2

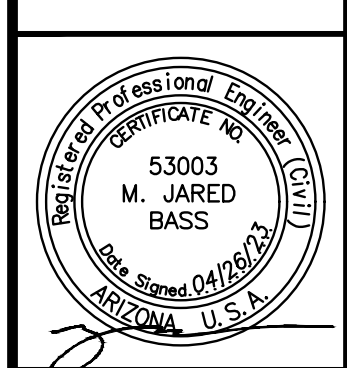
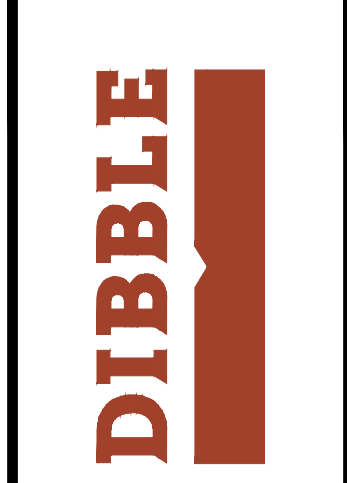
DEMOLITION NOTES	
3	SAWCUT AC PAVEMENT (± 4" DEPTH) 977 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH) 3,891 SY
5	SAWCUT AC PAVEMENT (2" TO 3" DEPTH) 305 LF
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH) 2,878 SY
8	REMOVE PAVEMENT SECTION (± 9" PCCP, 6" ABC, 6" PCCP) 1,819 SY
9	SAWCUT PCCP (±16.5" DEPTH) 790 LF
14	REMOVE PCCP (±16.5" DEPTH) 7,526 SY
20	REMOVE AND DISPOSE OF SEGMENTED CIRCLE CONCRETE PADS 20 EA

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
11	DOUBLE SAWCUT DET 7 SHT G1-3.1
42	REFER TO SHEET C3-1.7 FOR RW THRESHOLD TRANSITION PCCP SECTION
49	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E3-2.1 TO E3-2.12
50	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	REMOVE PCCP (±16.5" DEPTH)
	REMOVE PAVEMENT SECTION (± 9" PCCP, 6" ABC, 6" PCCP)
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	20023_2303-D3-1_X-DEMO-AA2



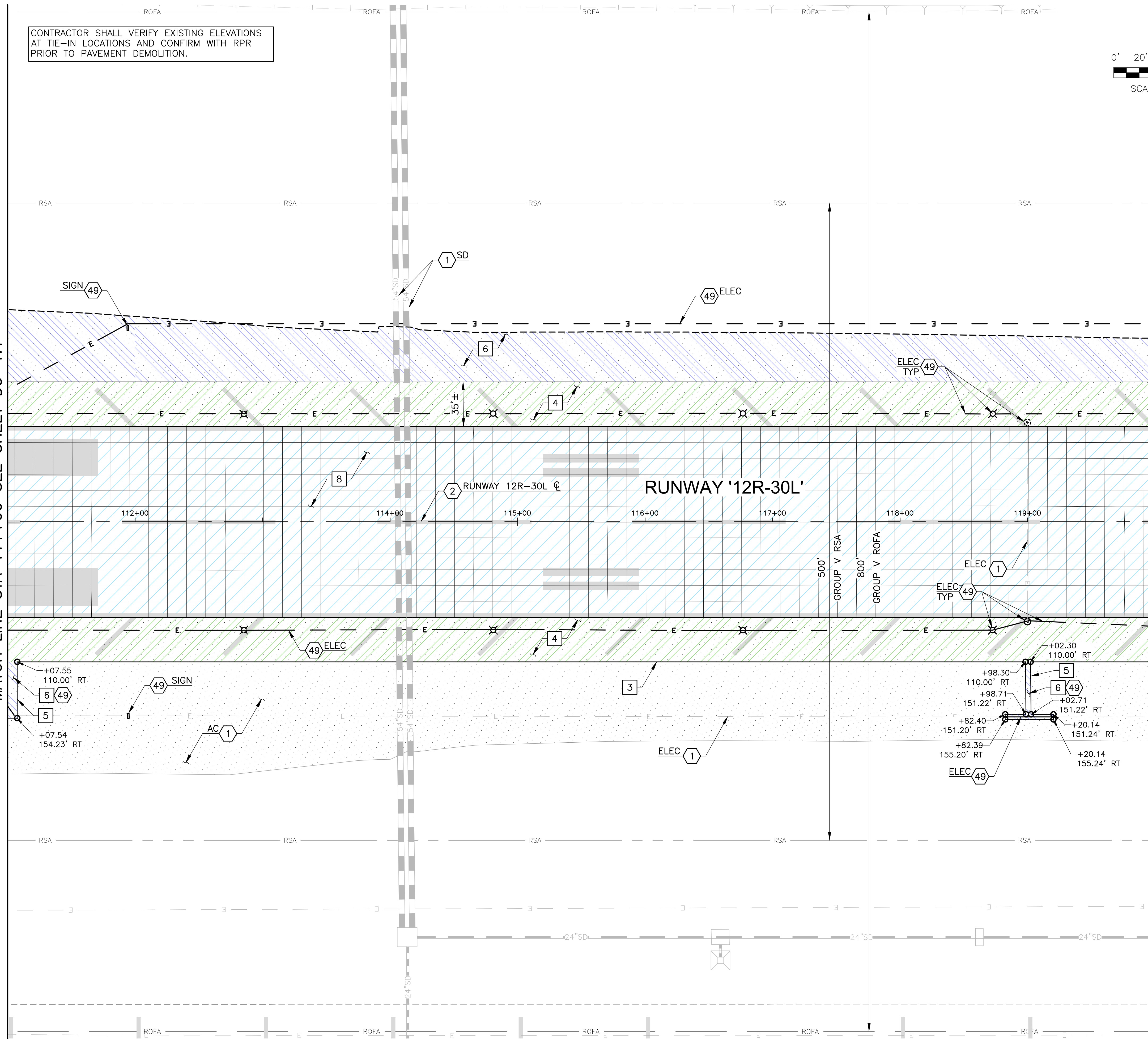
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) DEMOLITION PLAN
STA 101+00 TO STA 111+00**



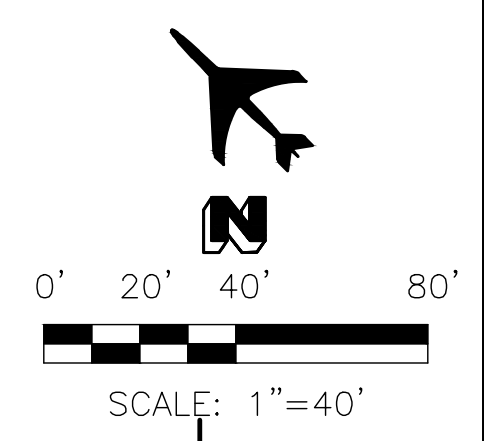
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MATCH LINE STA 111+00 SEE SHEET D3-1.1

MATCH LINE STA 120+00 SEE SHEET D3-1.3



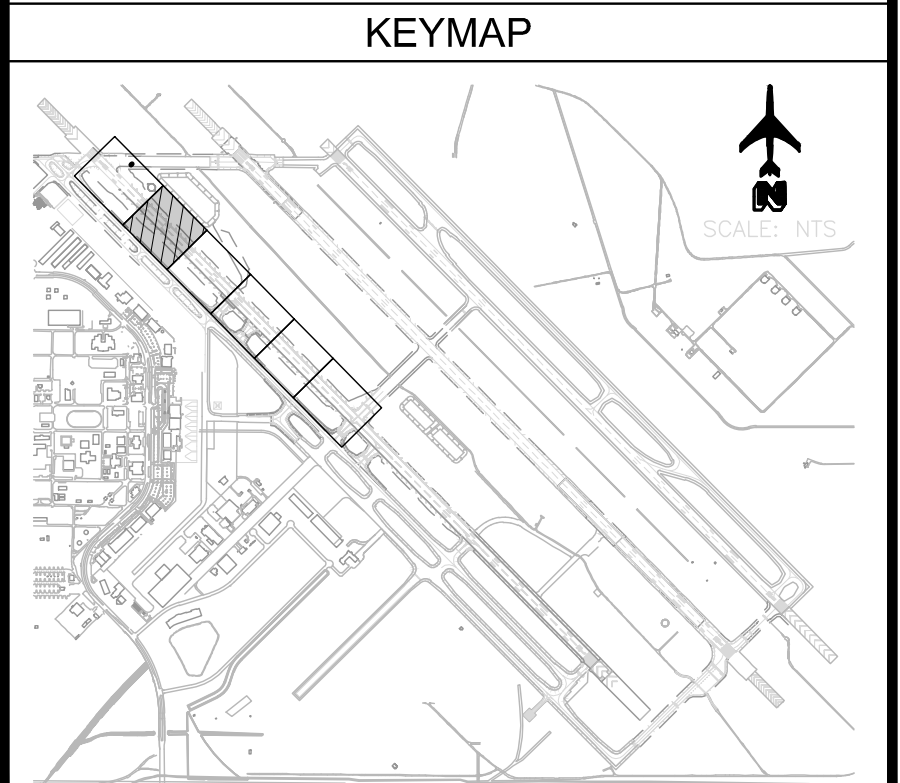
CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.



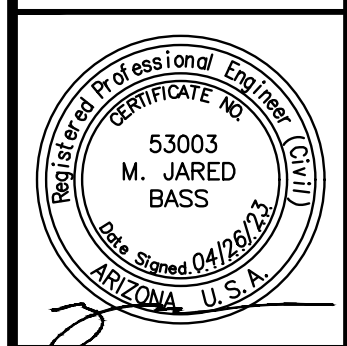
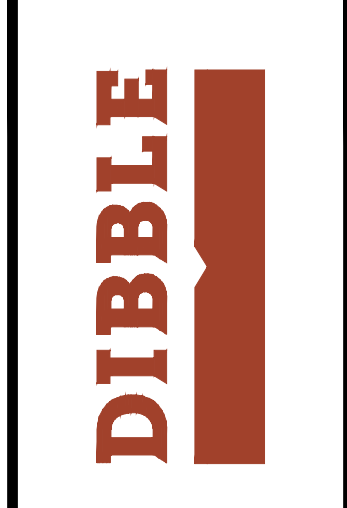
DEMOLITION NOTES	
3	SAWCUT AC PAVEMENT (± 4" DEPTH) 889 LF
4	REMOVE AC PAVEMENT (± 4" DEPTH) 6,980 SY
5	SAWCUT AC PAVEMENT (2" TO 3" DEPTH) 214 LF
6	REMOVE AC PAVEMENT (2" TO 3" DEPTH) 4,180 SY
8	REMOVE PAVEMENT SECTION (± 9" PCCP, 6" ABC, 6" PCCP) 15,000 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
49	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E3-2.1 TO E3-2.12

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	REMOVE PAVEMENT SECTION (± 9" PCCP, 6" ABC, 6" PCCP)
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D3-1_X-DEMO-AA2



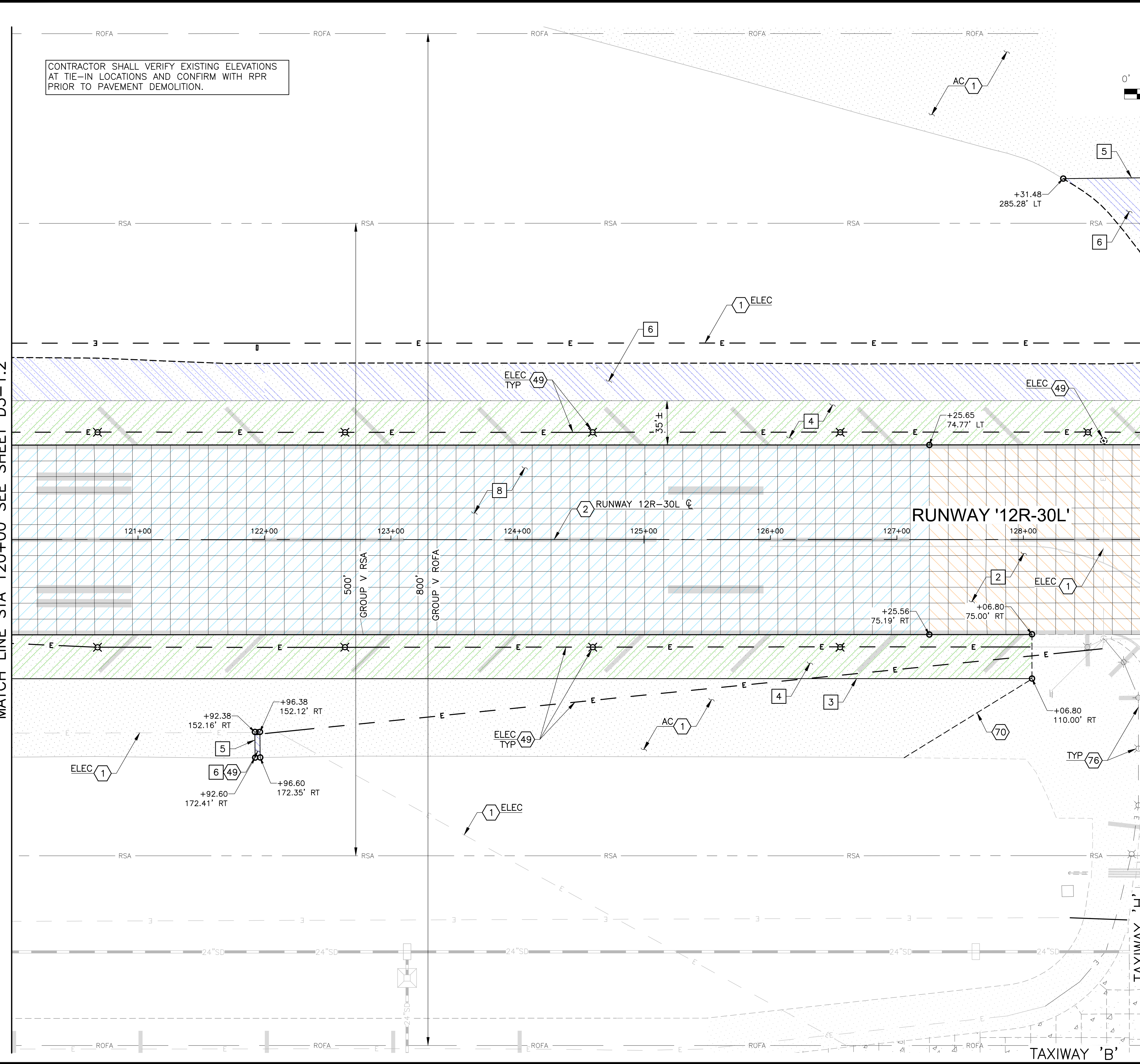
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) DEMOLITION PLAN
STA 111+00 TO STA 120+00**



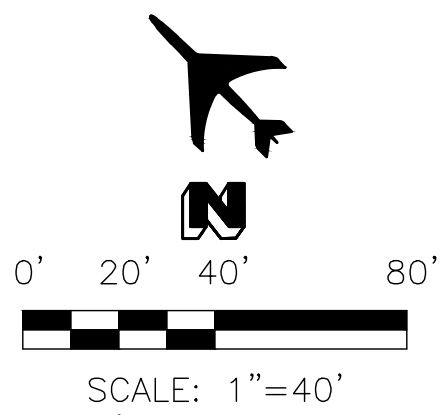
FILE: 2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ABD-ALT-2\20023-2303-D3-1-X-DEMO_AA2.dwg DATE: April 26, 2023 TIME: 12:28 PM BY: trowis woodman

MATCH LINE STA 120+00 SEE SHEET D3-1.2

MATCH LINE STA 129+00 SEE SHEET D3-1.4



CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.



DEMOLITION NOTES	
2 REMOVE PAVEMENT SECTION (±) 9" PCCP, 3" AC, 6" PCCP	2,904 SY
3 SAWCUT AC PAVEMENT (± 4" DEPTH)	807 LF
4 REMOVE AC PAVEMENT (± 4" DEPTH)	6,612 SY
5 SAWCUT AC PAVEMENT (2" TO 3" DEPTH)	113 LF
6 REMOVE AC PAVEMENT (2" TO 3" DEPTH)	3,217 SY
8 REMOVE PAVEMENT SECTION (±) 9" PCCP, 6" ABC, 6" PCCP	12,082 SY

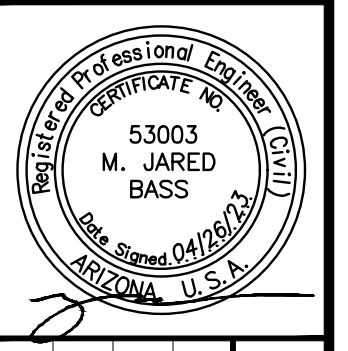
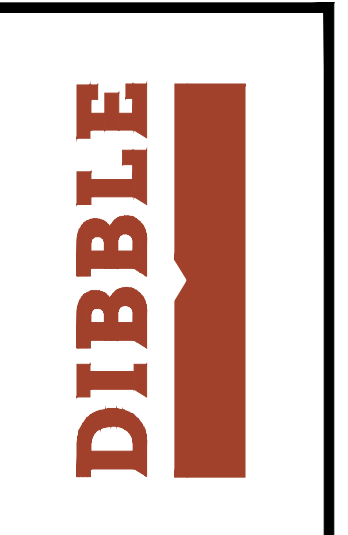
REV	DATE	DESCRIPTION

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
49	REFER TO ELECTRICAL DEMOLITION PLAN SHTS E3-2.1 TO E3-2.12
70	REFER TO SCHEDULE IV DEMOLITION PLAN SHTS D4-1.1 TO D4-1.2
76	REFER TO SCHEDULE IV ELECTRICAL DEMOLITION SHTS E4-1.1 TO E4-1.2

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	REMOVE PAVEMENT SECTION (±) 9" PCCP, 3" AC, 6" PCCP
	REMOVE PAVEMENT SECTION (±) 9" PCCP, 6" ABC, 6" PCCP
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)

KEYMAP	

REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D3-1_X-DEMO_AA2



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) DEMOLITION PLAN
STA 120+00 TO STA 129+00**

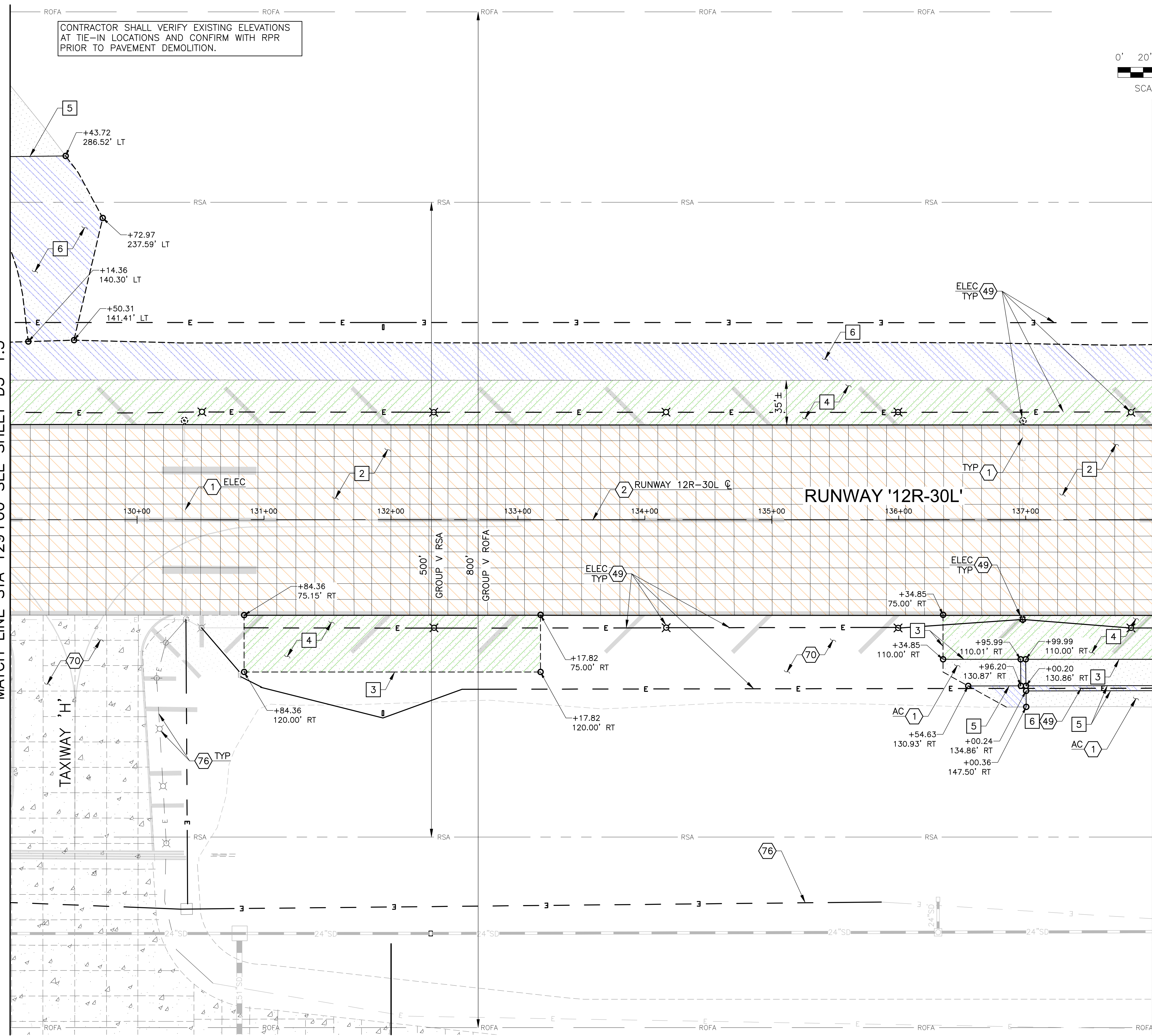
D3-1.3
SHEET NO.
106 OF **211**



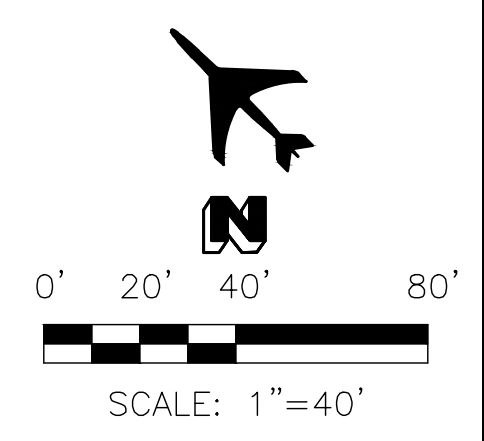
FILE: 2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023-2303-D3-L-X-DEMO_AA2.dwg DATE: April 26, 2023 TIME: 12:28 PM BY: trowis woodman

MATCH LINE STA 129+00 SEE SHEET D3-1.3

MATCH LINE STA 138+00 SEE SHEET D3-1.5



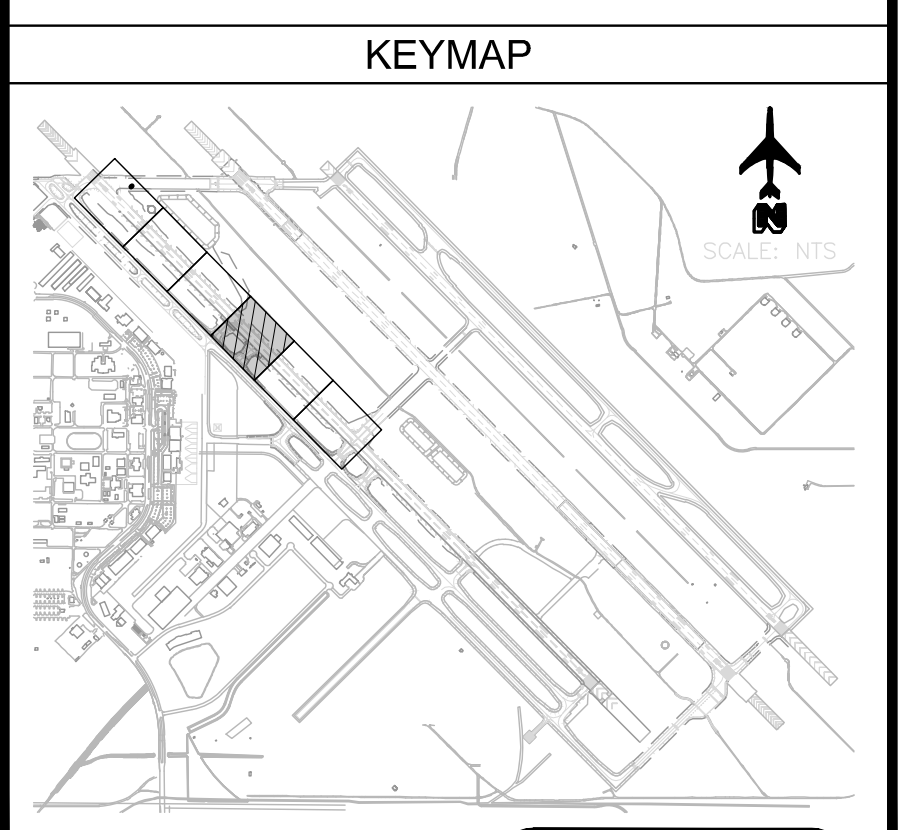
CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT TIE-IN LOCATIONS AND CONFIRM WITH RPR PRIOR TO PAVEMENT DEMOLITION.



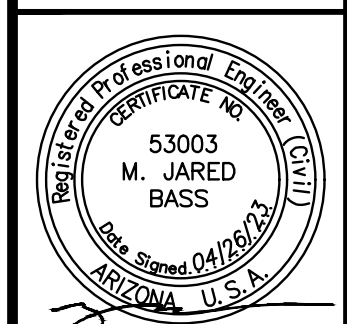
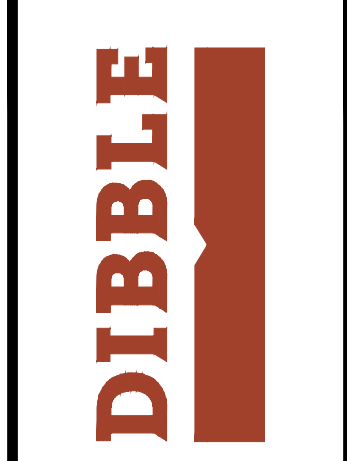
DEMOLITION NOTES	
2 REMOVE PAVEMENT SECTION (±) 9" PCCP, 3" AC, 6" PCCP	14,981 SY
3 SAWCUT AC PAVEMENT	520 LF
4 REMOVE AC PAVEMENT (± 4" DEPTH)	5,310 SY
5 SAWCUT AC PAVEMENT (2" TO 3" DEPTH)	340 LF
6 REMOVE AC PAVEMENT (2" TO 3" DEPTH)	3,979 SY

REFERENCE NOTES	
1 PROTECT IN PLACE	
2 REFER TO PROJECT SITE PLAN SHT G1-1.3	
49 REFER TO ELECTRICAL DEMOLITION PLAN SHTS E3-2.1 TO E3-2.12	
70 REFER TO SCHEDULE IV DEMOLITION PLAN SHTS D4-1.1 TO D4-1.2	
76 REFER TO SCHEDULE IV ELECTRICAL DEMOLITION SHTS E4-1.1 TO E4-1.2	

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	REMOVE PAVEMENT SECTION (±) 9" PCCP, 3" AC, 6" PCCP
	REMOVE AC PAVEMENT (± 4" DEPTH)
	REMOVE AC PAVEMENT (2" TO 3" DEPTH)



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-D3-1_X-DEMO_AA2

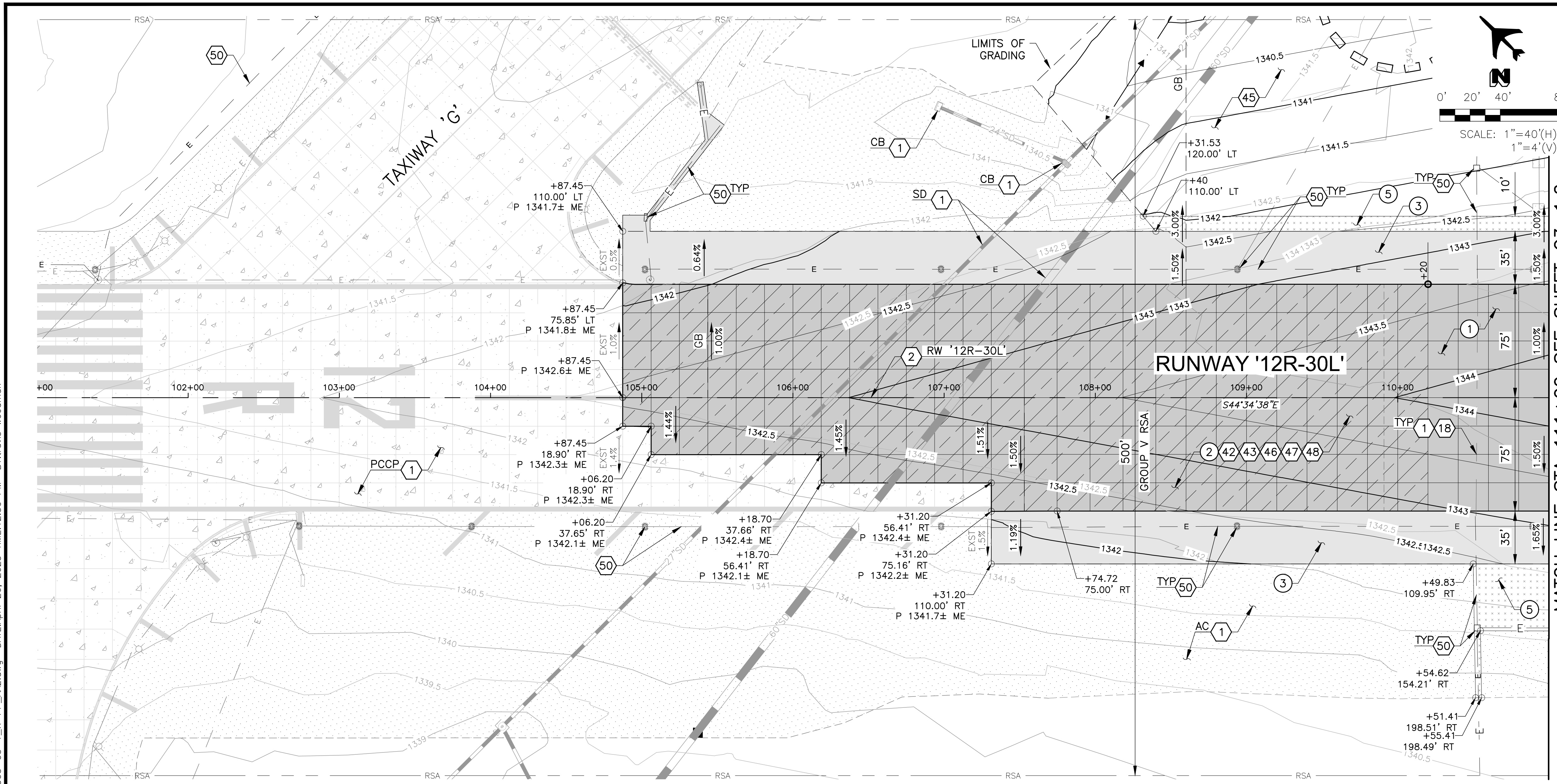


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) DEMOLITION PLAN
STA 129+00 TO STA 138+00**



D3-1.4
SHEET NO.
107 OF 211

FILE:J:\2020\1020023.2303 PNGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023-2303-C3-1-X-PP-AA2.dwg DATE:April 26, 2023 TIME:12:30 PM BY:trovis woodman



CONSTRUCTION NOTES

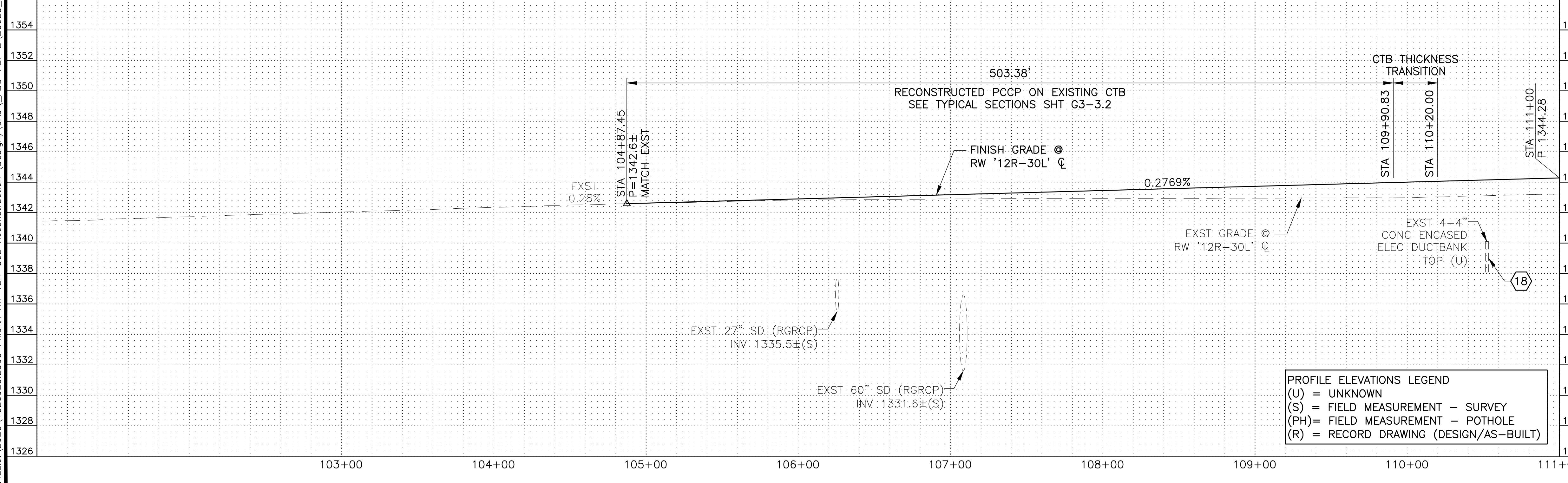
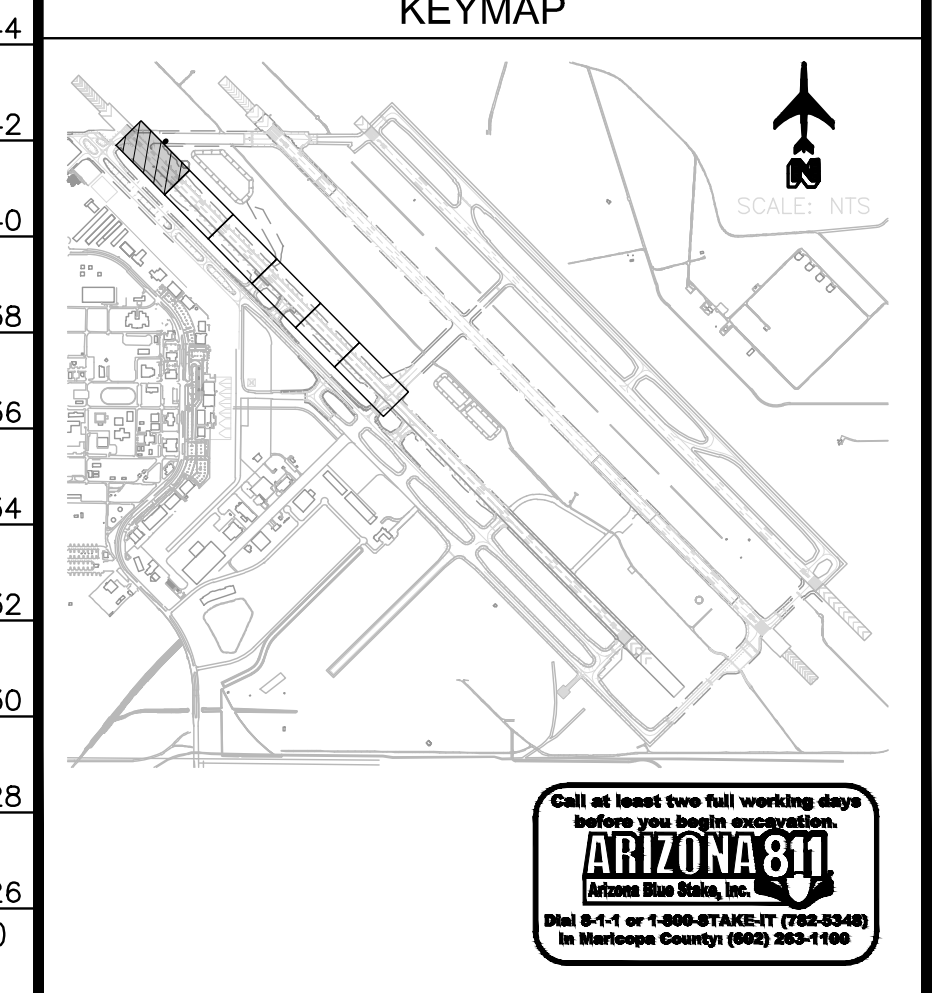
1	RUNWAY PCCP SECT 1, SHT G1-3.1	1,333 SY
2	RUNWAY PCCP SECT 1, SHT G3-3.1	8,058 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1	3,895 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1	558 SY

REFERENCE NOTES

- PROTECT IN PLACE
- REFER TO PROJECT SITE PLAN
SHT G1-1.3
- CONSTRUCT PAVEMENT SECTION AROUND
THE CONCRETE ENCASED DUCT BANK
- REFER TO SHEET C3-1.7 FOR RW
THRESHOLD TRANSITION PCCP SECTION
- REFER TO DEMOLITION PLANS
SHTS D3-1.1 TO D3-1.6
- REFER TO GRADING AND DRAINAGE
PLANS SHTS C3-2.1 TO C3-2.7
- REFER TO PAVEMENT ELEVATION PLANS
SHTS C3-3.1 TO C3-3.6
- REFER TO PCCP JOINT LAYOUT PLANS
SHTS C3-4.1 TO C3-4.6
- REFER TO PAVEMENT MARKING PLANS
SHT C3-5.1 TO C3-5.3
- REFER TO ELECTRICAL INSTALLATION
PLAN SHTS E3-3.1 TO E3-3.12

LEGEND

	EXST PCCP
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY PCCP SECT 1, SHT G3-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



PROFILE ELEVATIONS LEGEND

- (U) = UNKNOWN
- (S) = FIELD MEASUREMENT - SURVEY
- (PH) = FIELD MEASUREMENT - POTHOLE
- (R) = RECORD DRAWING (DESIGN/AS-BUILT)

REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	2003_2303-C3-1_X-PP-AA2

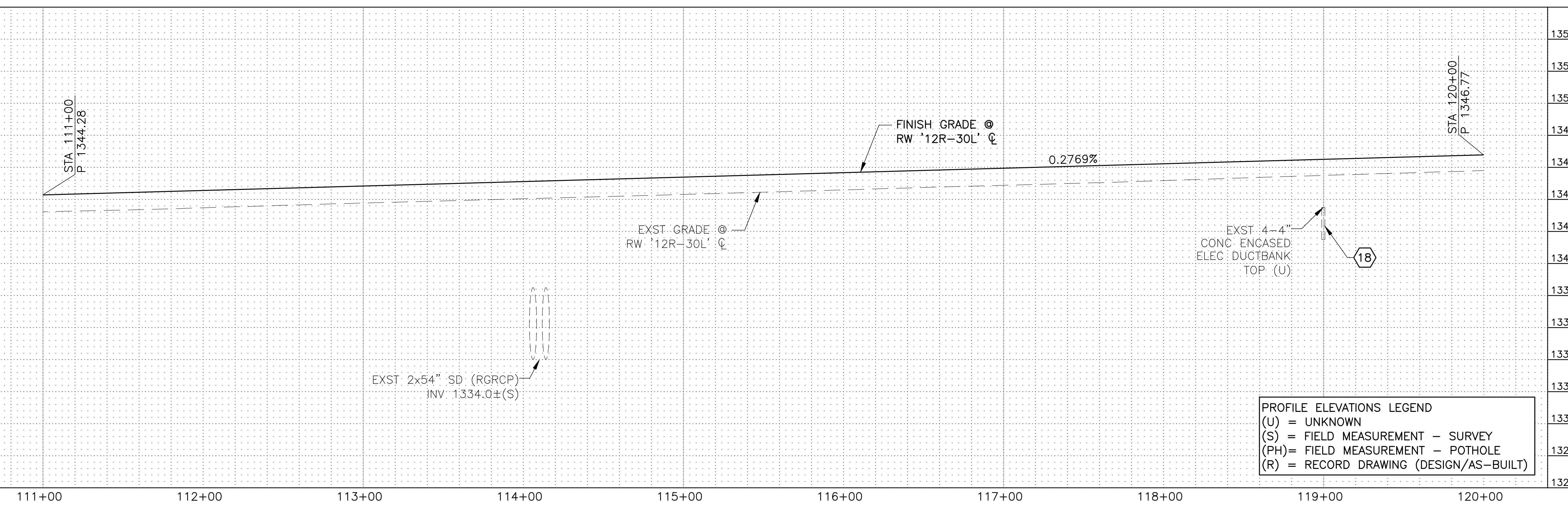
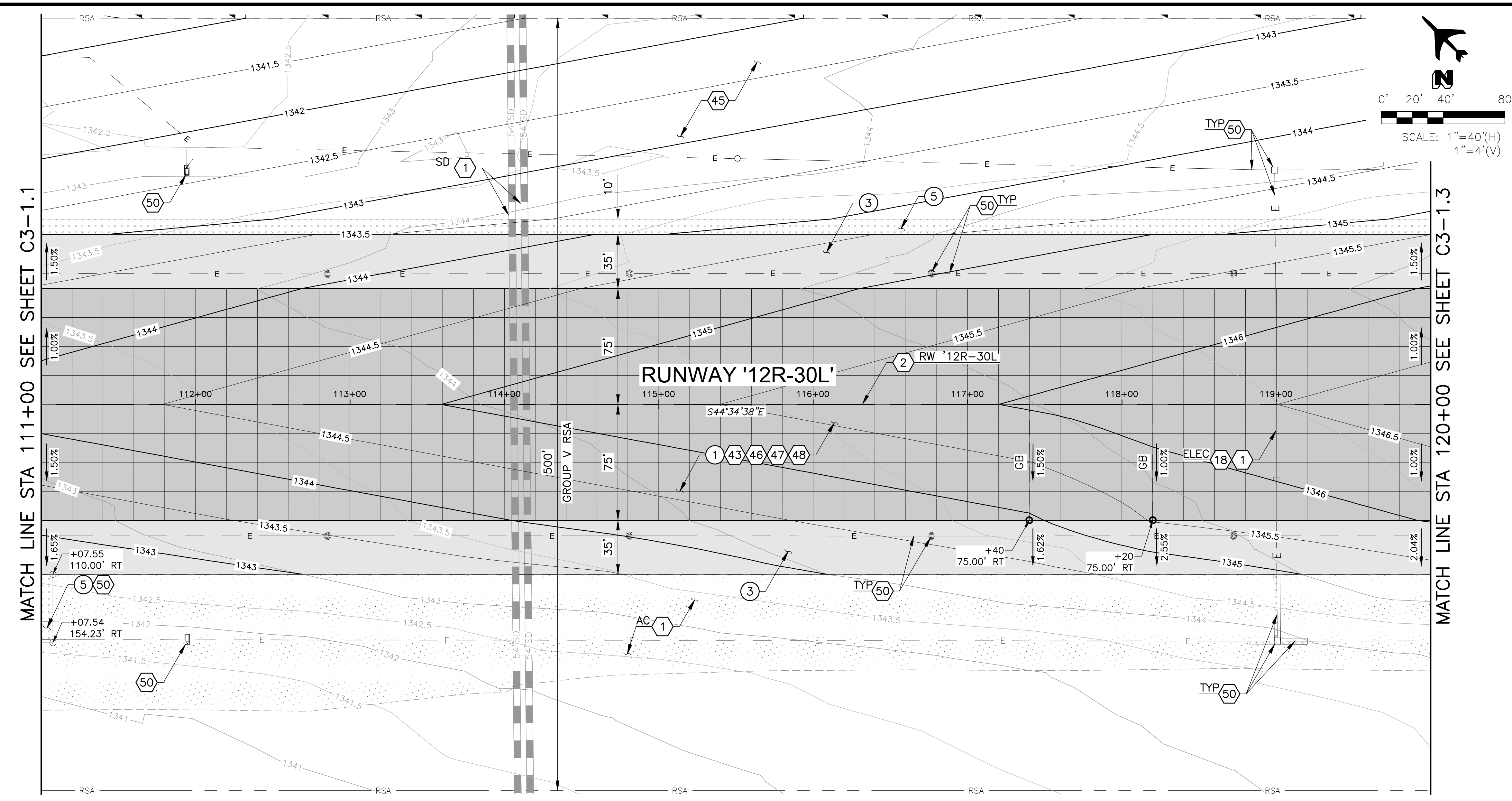


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVING PLAN & PROFILE
STA 101+00 TO STA 111+00**

C3-1.1

SHEET NO.
110 OF 211

FILE: \\2020\1020023\2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023-2303-C3-1-X-PP-AA2.dwg DATE: April 26, 2023 TIME: 12:30 PM BY: trovis woodman



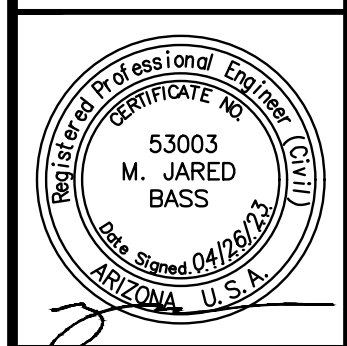
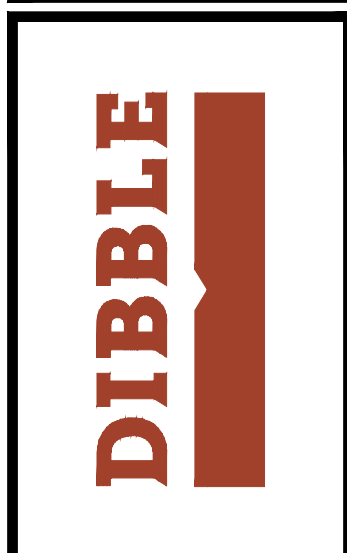
CONSTRUCTION NOTES	
1	RUNWAY PCCP SECT 1, SHT G1-3.1 15,000 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1 7,000 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1 1,000 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK
43	REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
45	REFER TO GRADING AND DRAINAGE PLANS SHTS C3-2.1 TO C3-2.7
46	REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
47	REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
48	REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
50	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	2003-2303-C3-1_X-PP-AA2



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2**

**(SCH III) PAVING PLAN & PROFILE
STA 111+00 TO STA 120+00**

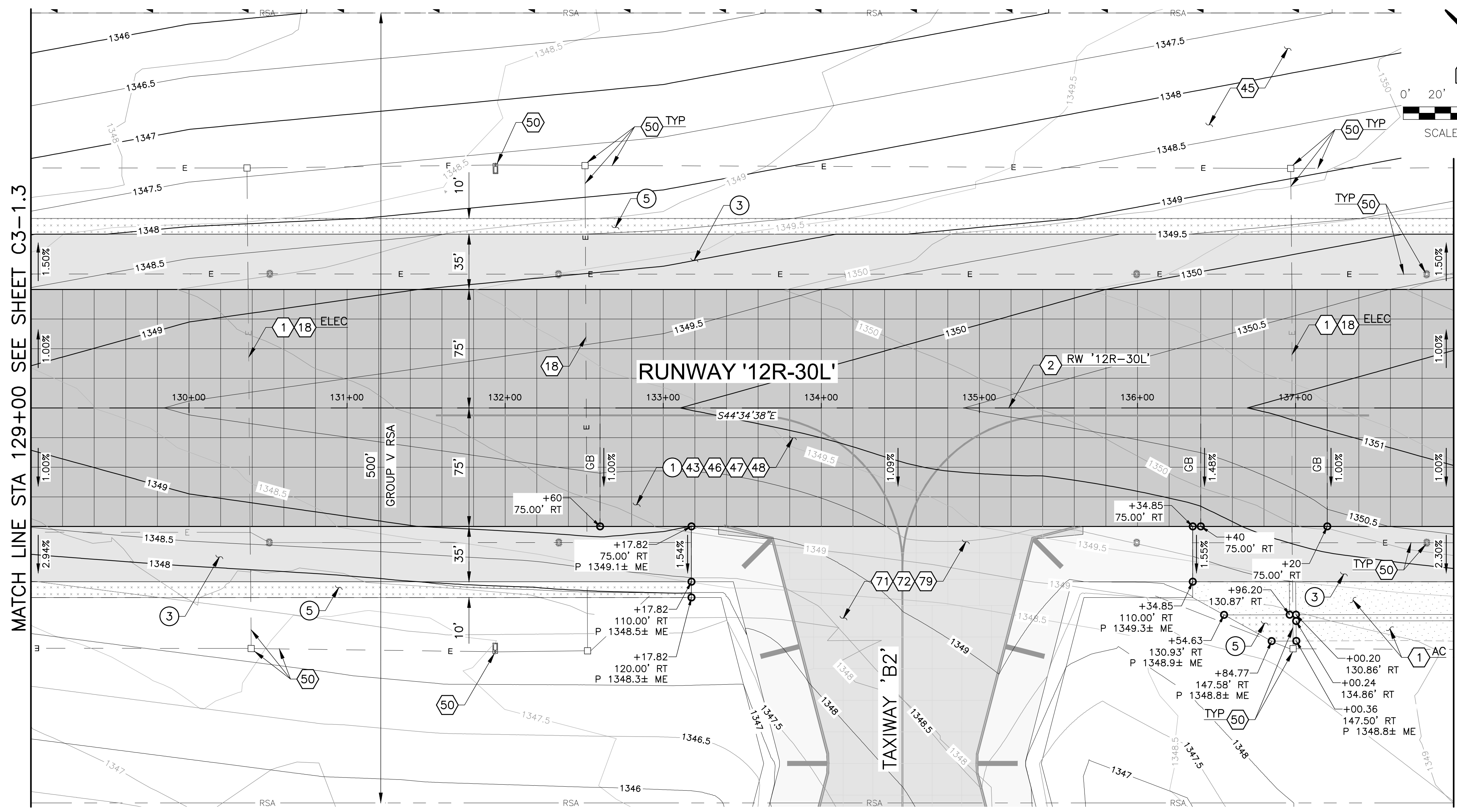
C3-1.2

SHEET NO.
111 OF 211

- 3 RE SH
- 5 RE PL
- 6 RE SH
- 7 RE SH
- 8 RE SH
- 10 RE PL



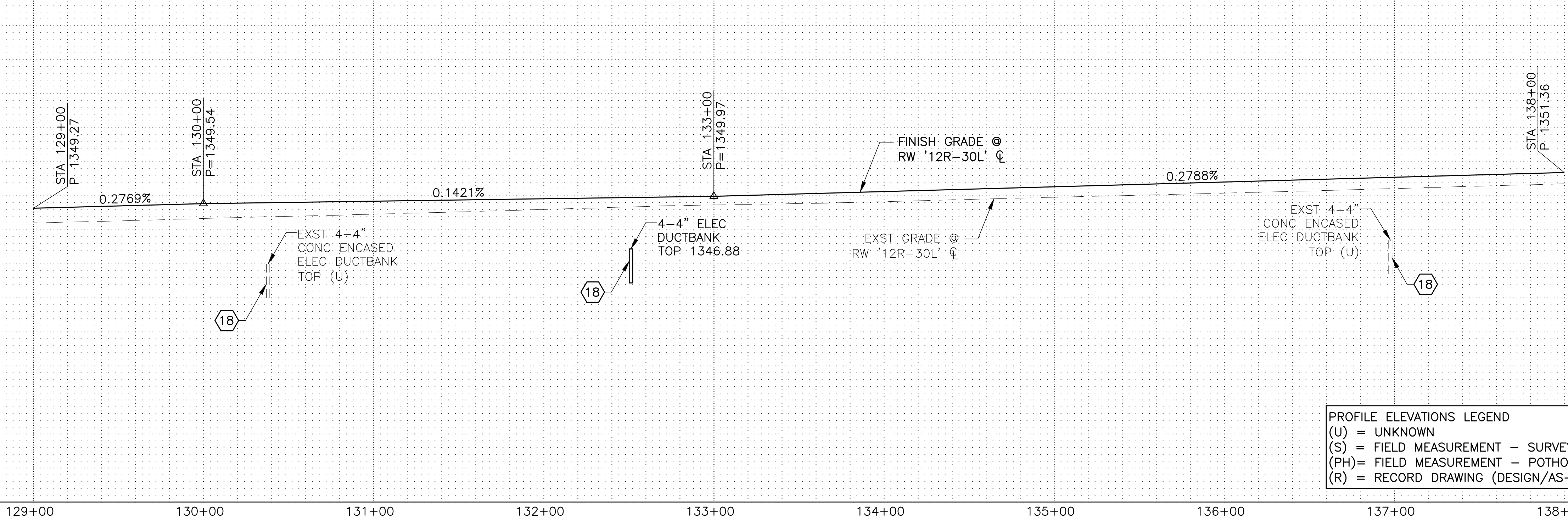
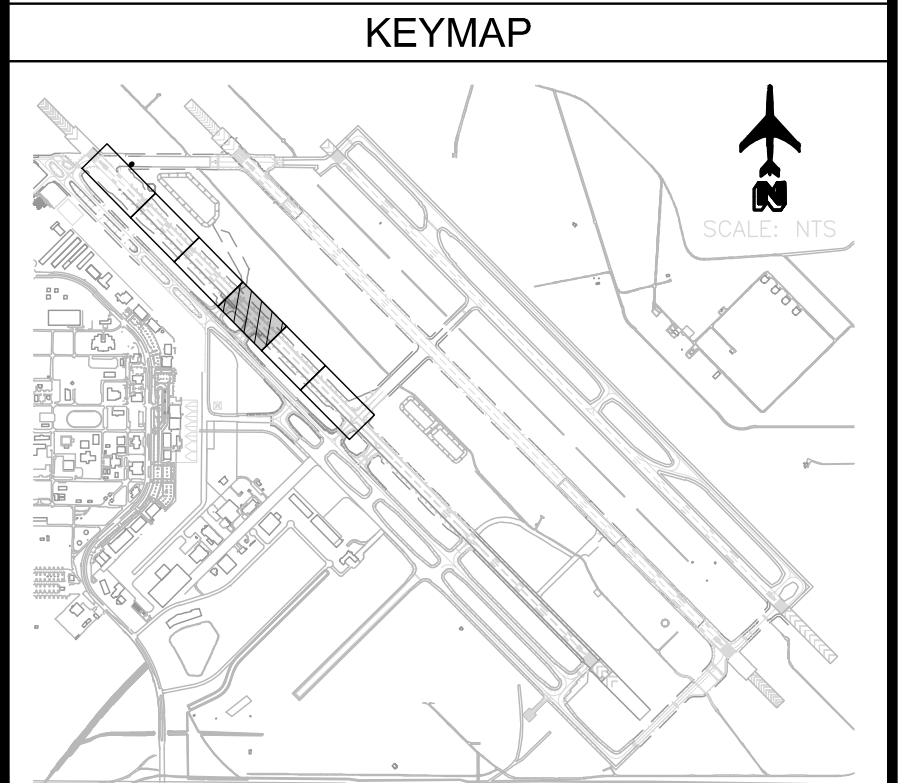
FILE: \\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-1_X-PP-AA2.dwg DATE: April 26, 2023 TIME: 12:31 PM BY: trovis woodman



CONSTRUCTION NOTES	
1	RUNWAY PCCP SECT 1, SHT G1-3.1 15,000 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1 5,768 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1 1,575 SY

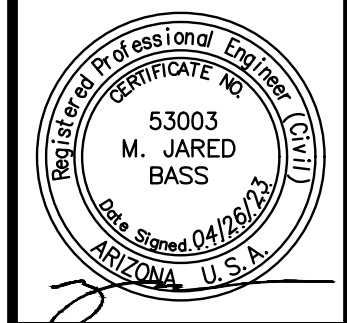
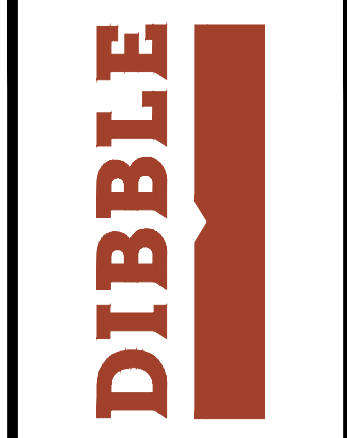
REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK
43	REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
45	REFER TO GRADING AND DRAINAGE PLANS SHTS C3-2.1 TO C3-2.7
46	REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
47	REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
48	REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
50	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12
71	REFER TO SCHEDULE IV GEOMETRY LAYOUT SHTS C4-2.1 TO C4-2.2
72	REFER TO SCHEDULE IV GRADING & DRAINAGE SHTS C4-5.1 TO C4-5.2
79	REFER TO SCHEDULE IV PLAN & PROFILE PLAN SHT C4-3.1

LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



PROFILE ELEVATIONS LEGEND	
(U)	= UNKNOWN
(S)	= FIELD MEASUREMENT - SURVEY
(PH)	= FIELD MEASUREMENT - POTHOLE
(R)	= RECORD DRAWING (DESIGN/AS-BUILT)

REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	20023_2303-C3-1_X-PP-AA2



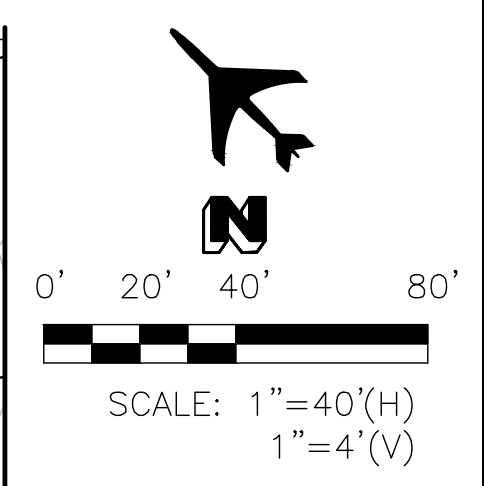
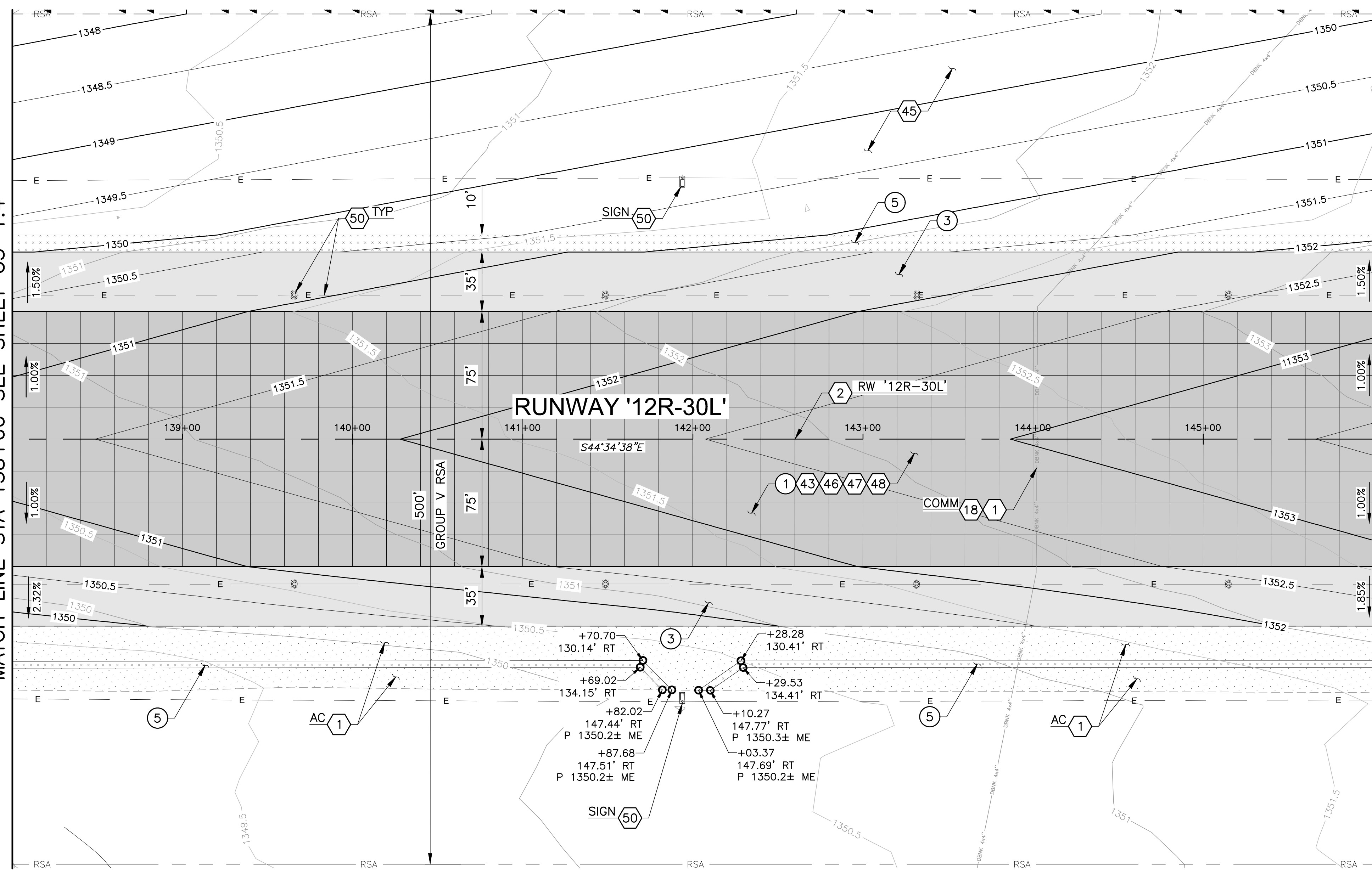
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVING PLAN & PROFILE
STA 129+00 TO STA 138+00**



FILE:J:\2020\10200203.2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\200203-2303-C3-1-X-PP-AA2.dwg DATE:April 26, 2023 TIME:12:31 PM BY:trovis woodman

MATCH LINE STA 138+00 SEE SHEET C3-1.4

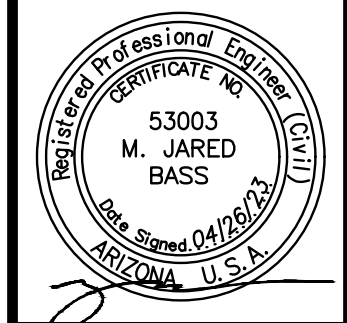
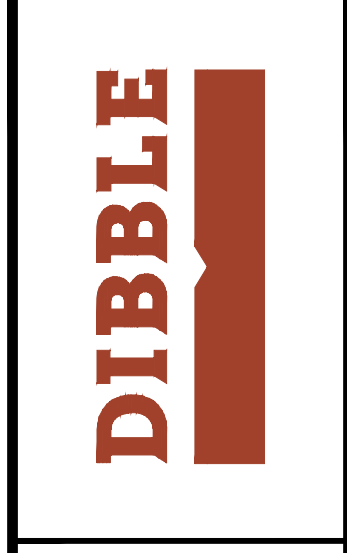
MATCH LINE STA 146+00 SEE SHEET C3-1.6



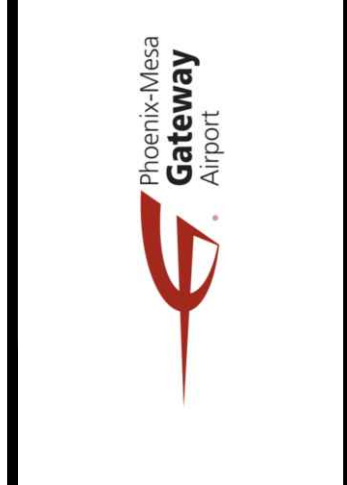
CONSTRUCTION NOTES	
1	RUNWAY PCCP SECT 1, SHT G1-3.1 13,333 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1 6,222 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1 1,249 SY

REFERENCE NOTES	
1	PROTECT IN PLACE
2	REFER TO PROJECT SITE PLAN SHT G1-1.3
18	CONSTRUCT PAVEMENT SECTION AROUND THE CONCRETE ENCASED DUCT BANK
43	REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
45	REFER TO GRADING AND DRAINAGE PLANS SHTS C3-2.1 TO C3-2.7
46	REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
47	REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
48	REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
50	REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12

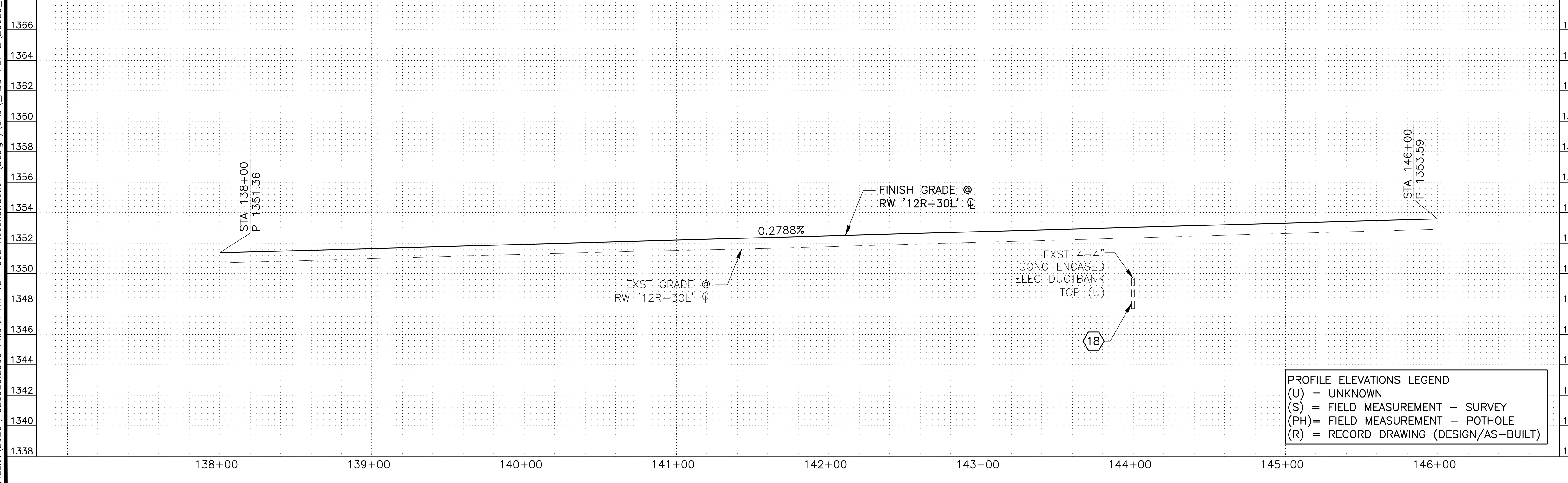
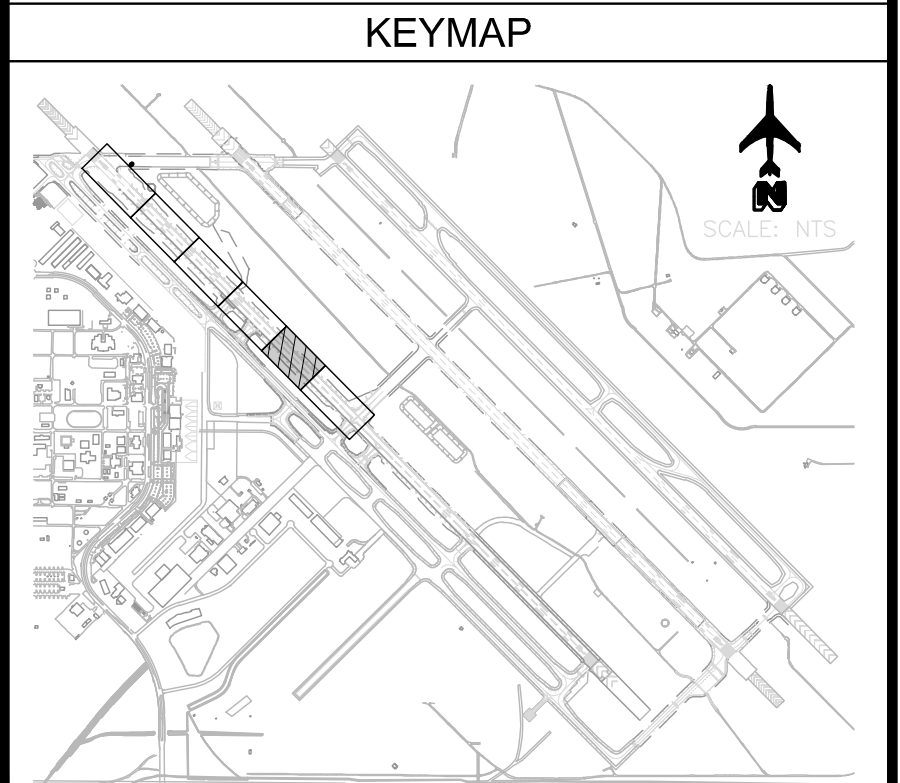
REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	200203-2303-C3-1_X-PP-AA2



LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1

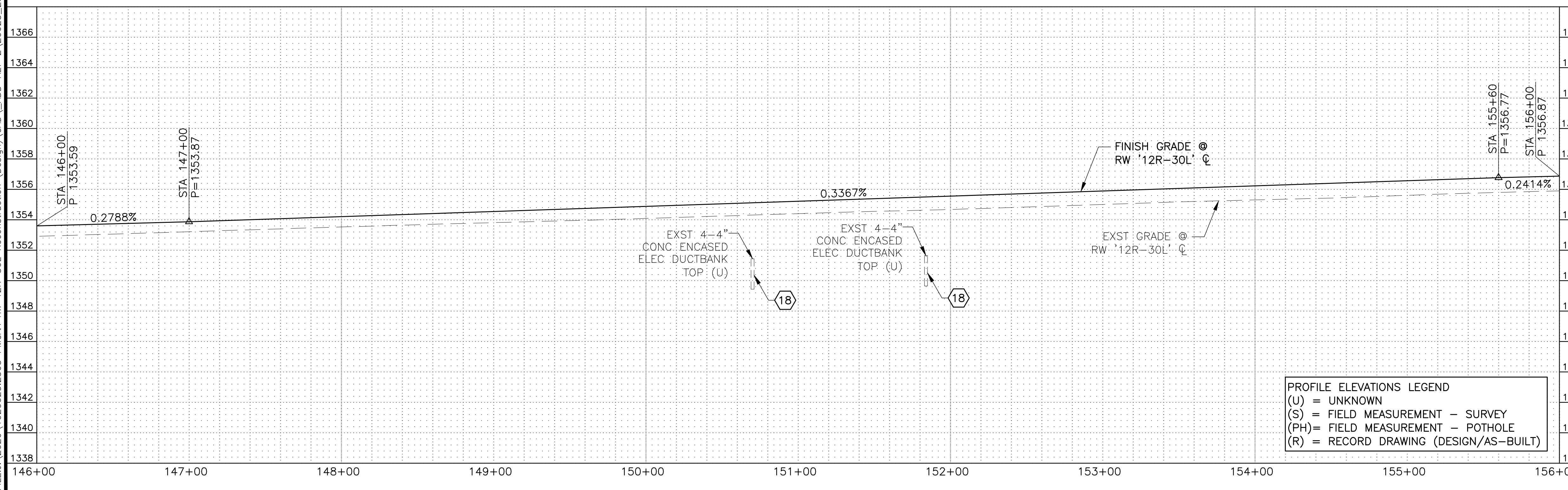
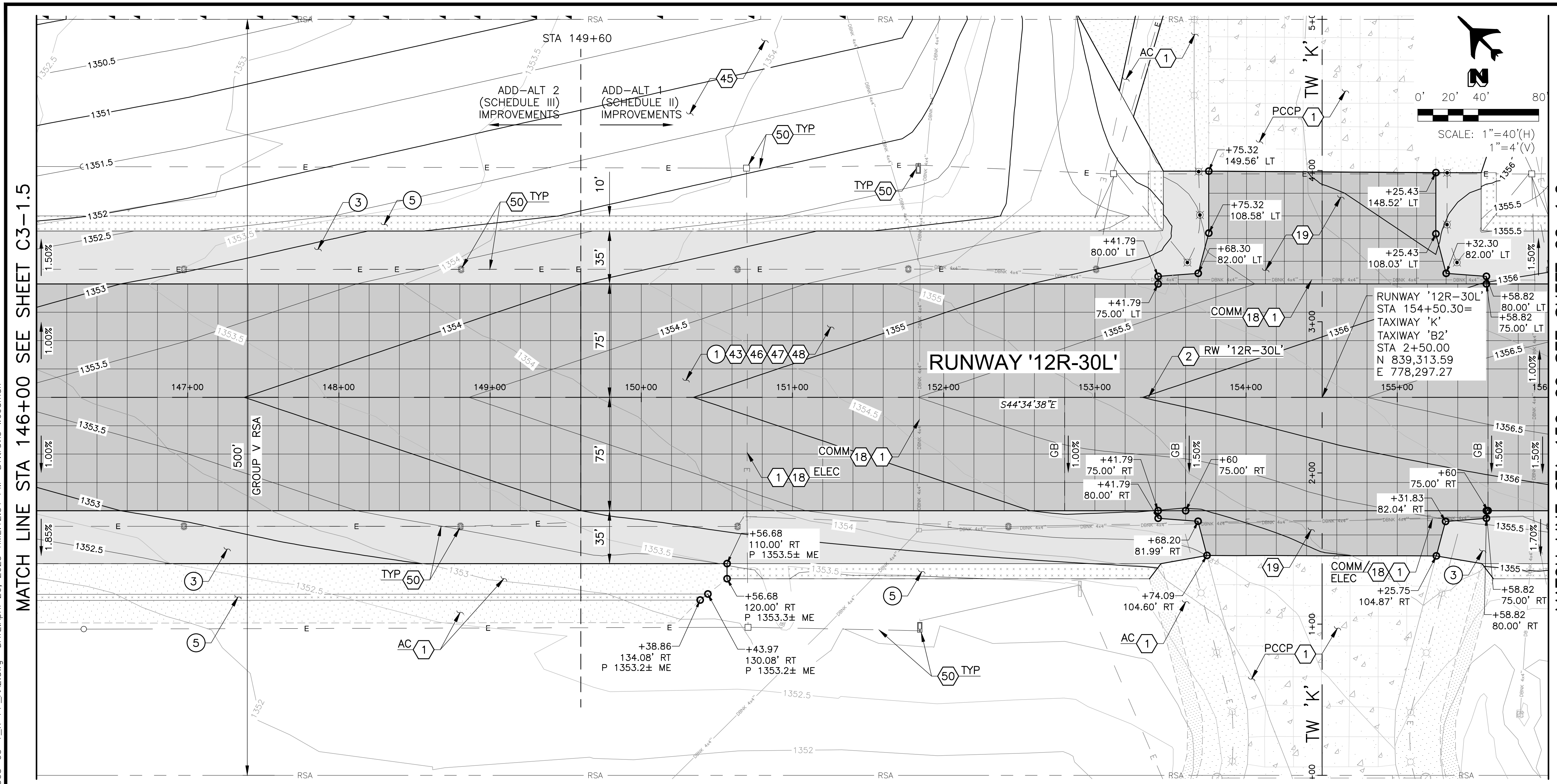


PROFILE ELEVATIONS LEGEND	
(U)	= UNKNOWN
(S)	= FIELD MEASUREMENT - SURVEY
(PH)	= FIELD MEASUREMENT - POT HOLE
(R)	= RECORD DRAWING (DESIGN/AS-BUILT)

**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVING PLAN & PROFILE
STA 138+00 TO STA 146+00**



FILE: \\2020\1020023\2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023-2303-C3-1_X-PP-AA2.dwg DATE: April 26, 2023 TIME: 12:31 PM BY: ktrovits woodman



CONSTRUCTION NOTES (SCH II)

1	RUNWAY PCCP SECT 1, SHT G1-3.1	10,667 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1	3,921 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1	902 SY

CONSTRUCTION NOTES (SCH III)

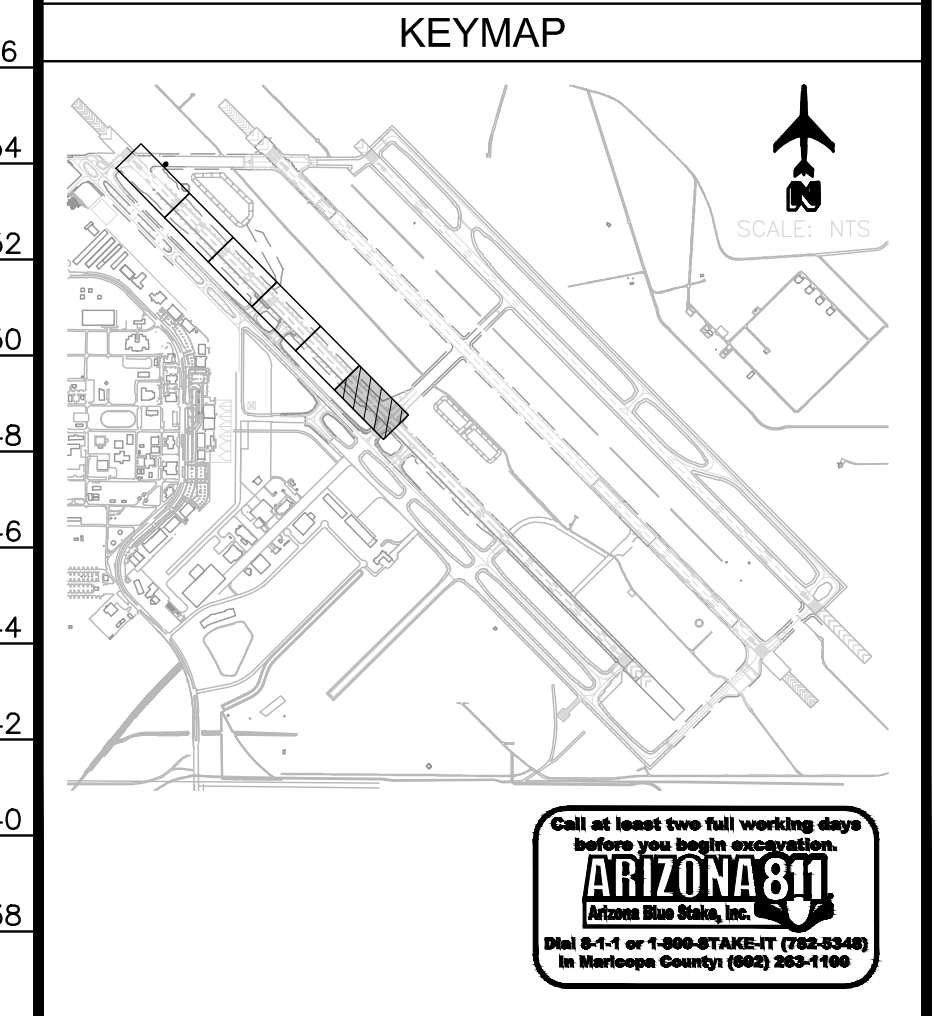
1	RUNWAY PCCP SECT 1, SHT G1-3.1	6,000 SY
3	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1	2,800 SY
5	SHOULDER STABILIZATION SECT 4, SHT G1-3.1	595 SY

REFERENCE NOTES

- PROTECT IN PLACE
- REFER TO PROJECT SITE PLAN
SHT G1-1.3
- CONSTRUCT PAVEMENT SECTION AROUND
THE CONCRETE ENCASED DUCT BANK
- REFER TO DEMOLITION PLANS
SHTS D3-1.1 TO D3-1.6
- REFER TO GRADING AND DRAINAGE
PLANS SHTS C3-2.1 TO C3-2.7
- REFER TO PAVEMENT ELEVATION PLANS
SHTS C3-3.1 TO C3-3.6
- REFER TO PCCP JOINT LAYOUT PLANS
SHTS C3-4.1 TO C3-4.6
- REFER TO PAVEMENT MARKING PLANS
SHT C3-5.1 TO C3-5.3
- REFER TO ELECTRICAL INSTALLATION
PLAN SHTS E3-3.1 TO E3-3.12

LEGEND

	EXST PCCP
	EXST AC PAVEMENT
	EXST SHOULDER STABILIZATION
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1



DIBBLE

Professional Engineer
53003
M. JARED BASS
Arizona, U.S.A.

DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MUB/KLS
FILE NAME: 20023_2303-C3-1_X-PP-AA2

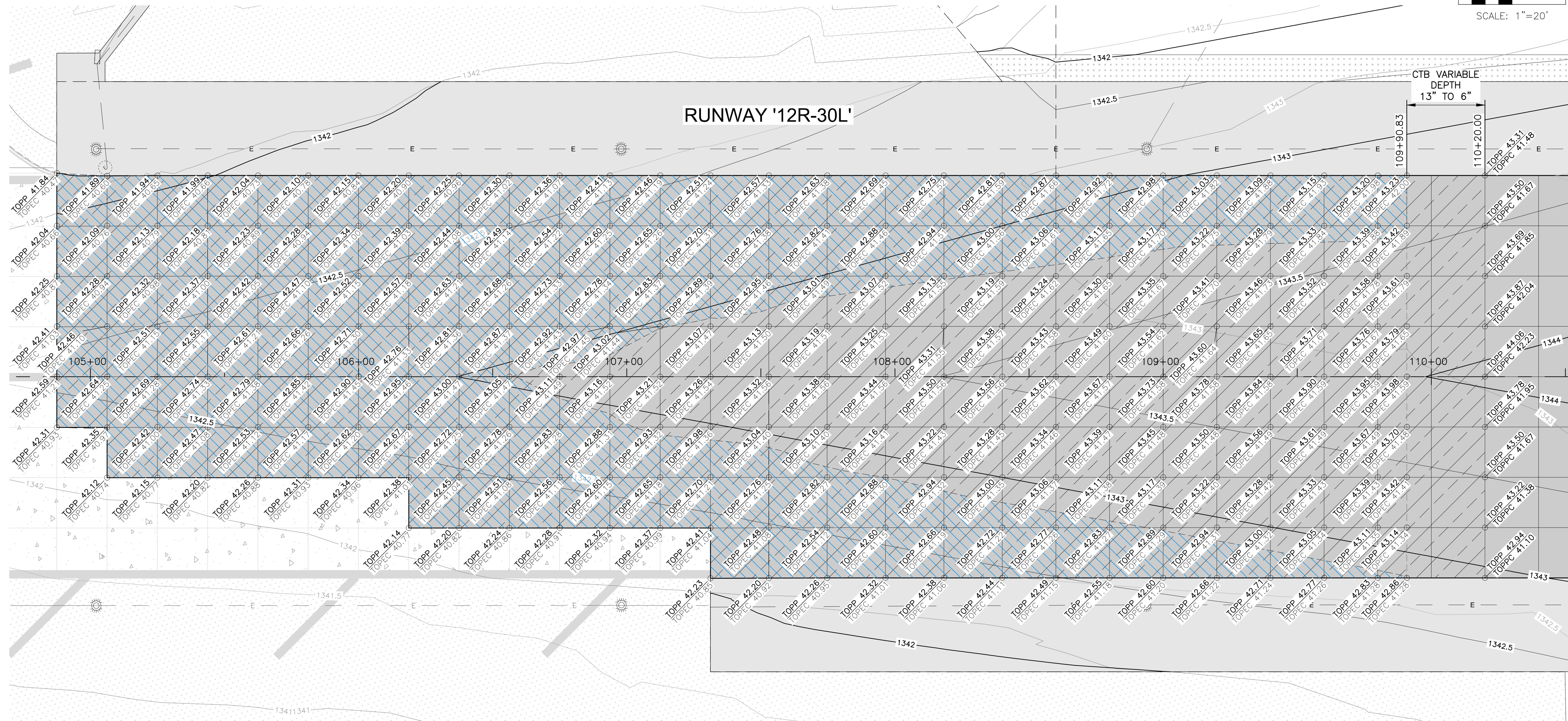
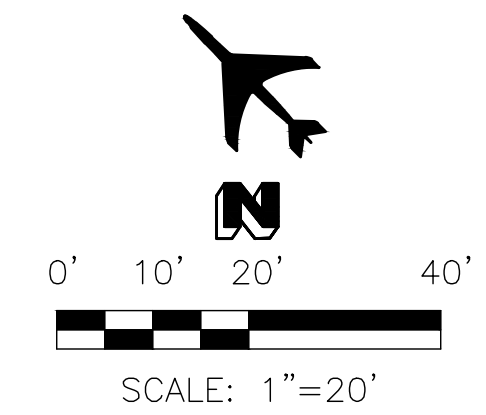
PHOENIX-MESA GATEWAY AIRPORT

**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVING PLAN & PROFILE
STA 146+00 TO STA 156+00**

C3-1.6

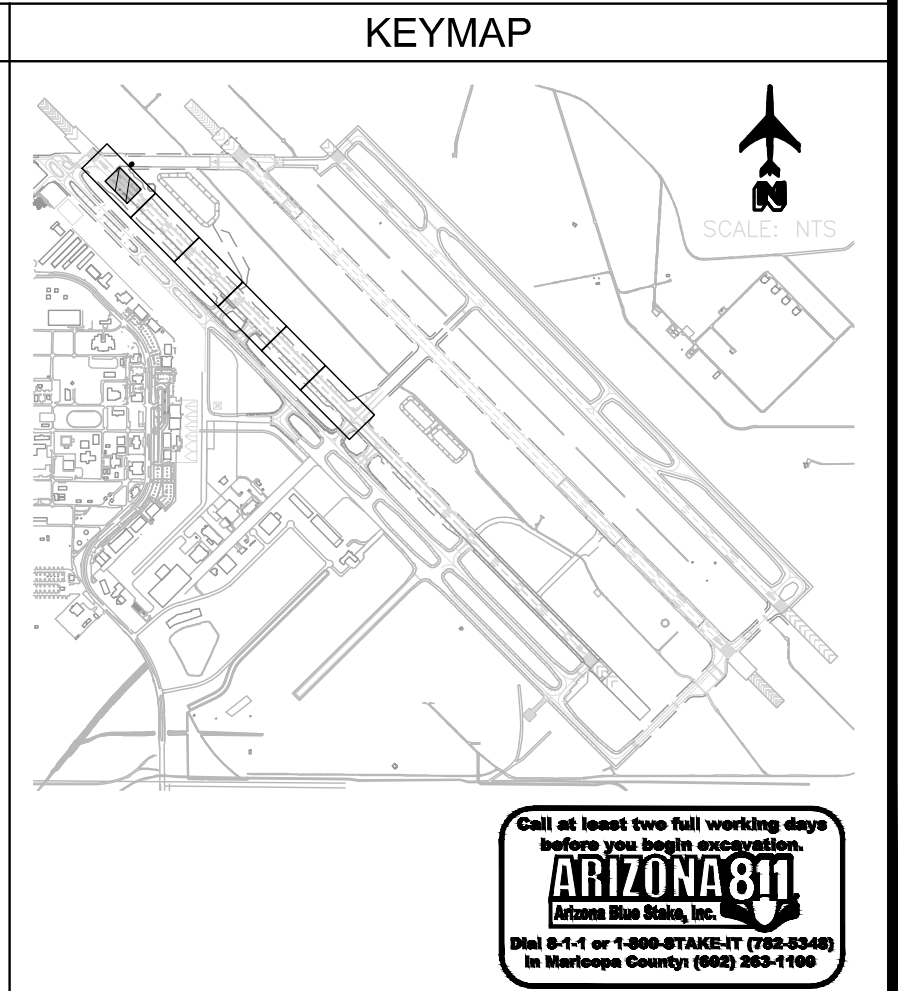
SHEET NO.
115 OF 211

FILE: \\2020\2020\2020\3\2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD-ADD-ALT-2\20023_2303-C3-1-X-PP-AAZ.dwg DATE: April 26, 2023 TIME: 12:32 PM BY: btrovits woodman



NOTE:
REFER TO SHT G3-3.2 FOR
TRANSITION PROFILE

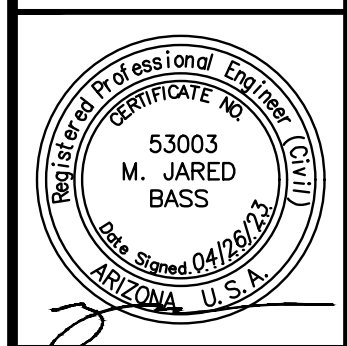
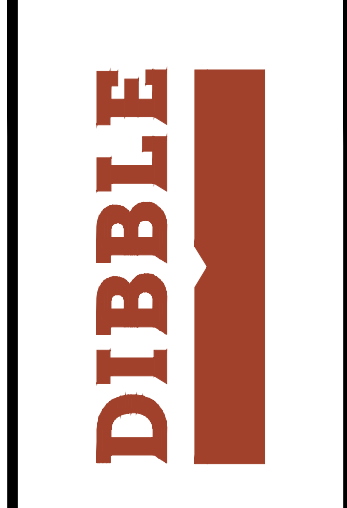
LEGEND	
	EXST PCCP
	EXST AC PAVEMENT
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY PCCP SECT 1, SHT G3-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	SHOULDER STABILIZATION SECT 4, SHT G1-3.1
	VARIABLE DEPTH MILL OF EXST CTB SECT G3-3.2
	TOPP: TOP OF PROPOSED PCCP -1300
	TOPC: TOP OF EXST CTB -1300
	TOPP: TOP OF PROPOSED PCCP -1300
	TOPPC: TOP OF PROPOSED CTB -1300



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) RW THRESHOLD TRANSITION
PAVEMENT ELEVATIONS**

C3-1.7
SHEET NO.
116 OF 211

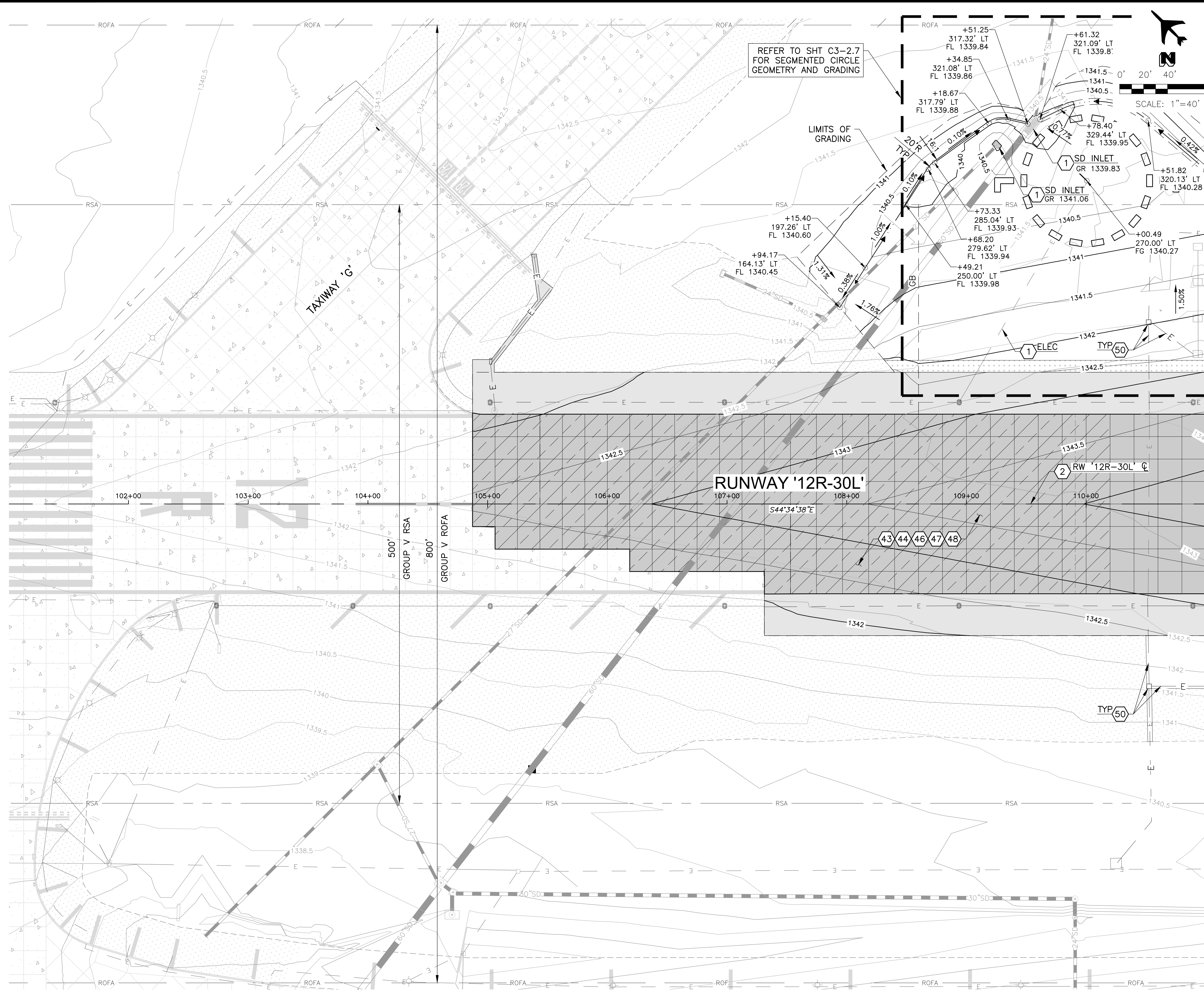
REV	DATE	DESCRIPTION



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MUB/KLS
FILE NAME: 20023_2303-C3-1_X-PP-AAZ



FILE: 2020\1020023.2303 PMGSA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-2_X-GRAD_A42.dwg DATE: April 26, 2023 TIME: 12:33 PM BY: trovis woodman

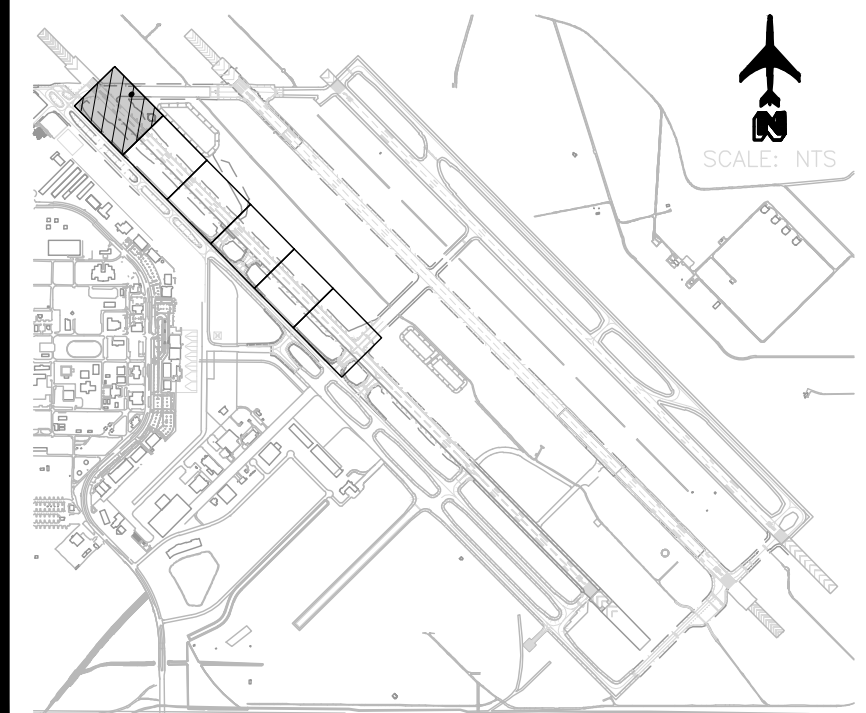


MATCH LINE STA 111+00 SEE SHEET C3-2.2

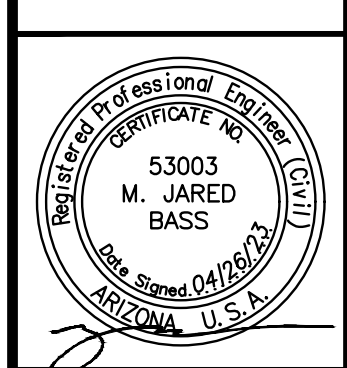
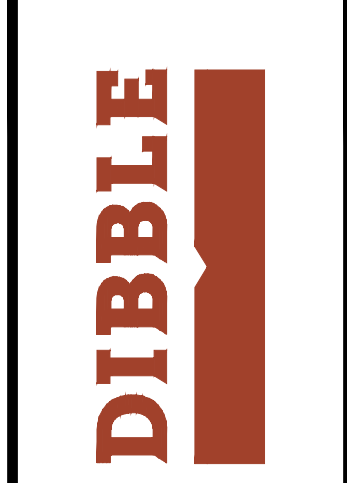
REFERENCE NOTES

- 1 PROTECT IN PLACE
- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
- 43 REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
- 44 REFER TO PAVING PLAN AND PROFILE SHTS C3-1.1 TO C3-1.6
- 46 REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
- 47 REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
- 48 REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
- 50 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12

KEYMAP



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	20023_2303-C3-2_X-GRAD_A42



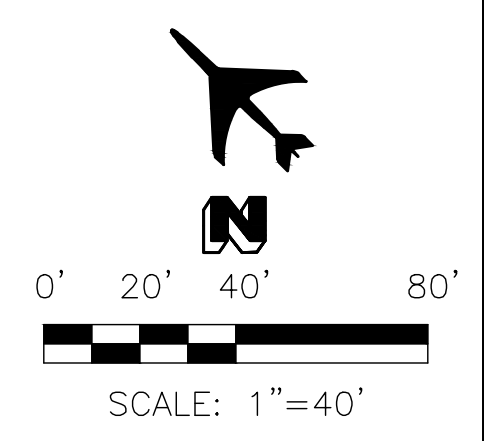
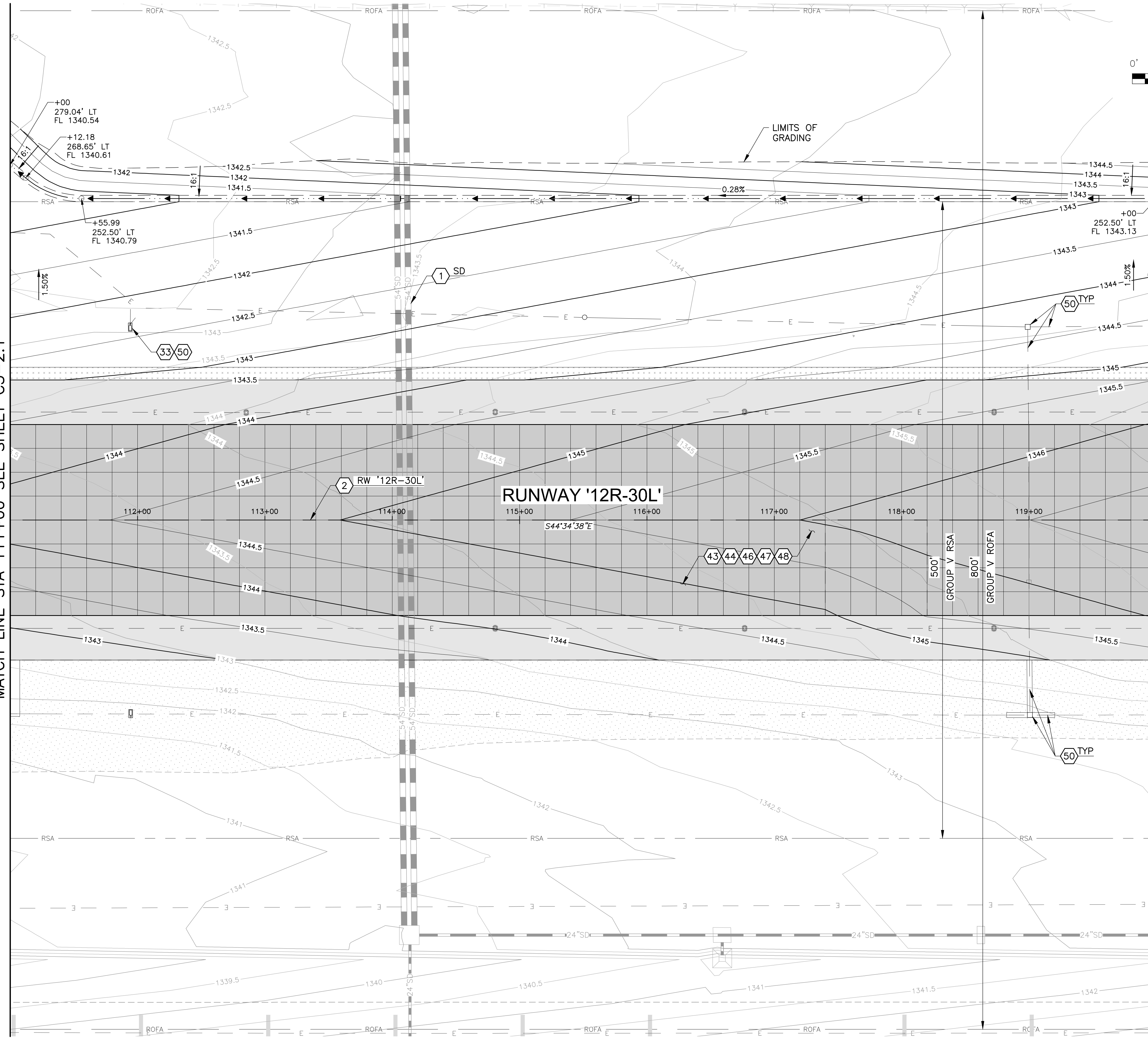
**RUNWAY 12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
STA 101+00 TO STA 111+00**

C3-2.1
SHEET NO.
117 OF 211

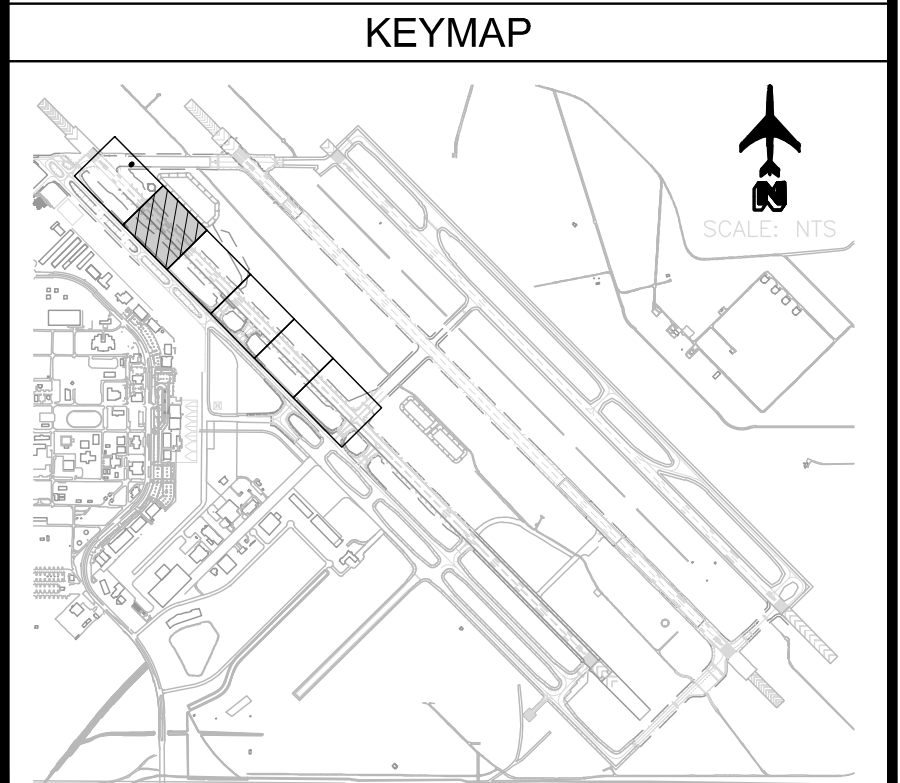
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MATCH LINE STA 111+00 SEE SHEET C3-2.1

MATCH LINE STA 120+00 SEE SHEET C3-2.3



- REFERENCE NOTES**
- 1 PROTECT IN PLACE
 - 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
 - 33 SEE DET 8, SHT G1-3.2 FOR GRADING AT SIGN BASE
 - 43 REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
 - 44 REFER TO PAVING PLAN AND PROFILE SHTS C3-1.1 TO C3-1.6
 - 46 REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
 - 47 REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
 - 48 REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
 - 50 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
STA 111+00 TO STA 120+00**

C3-2.2
SHEET NO.
118 OF 211

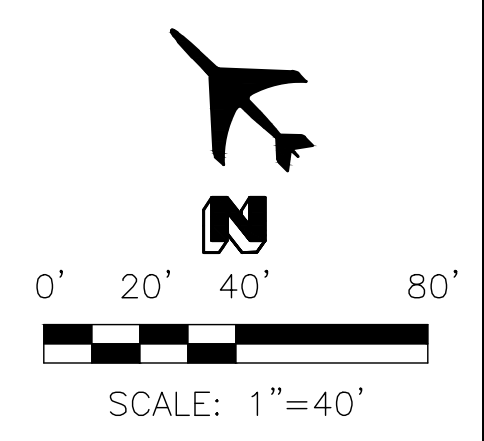
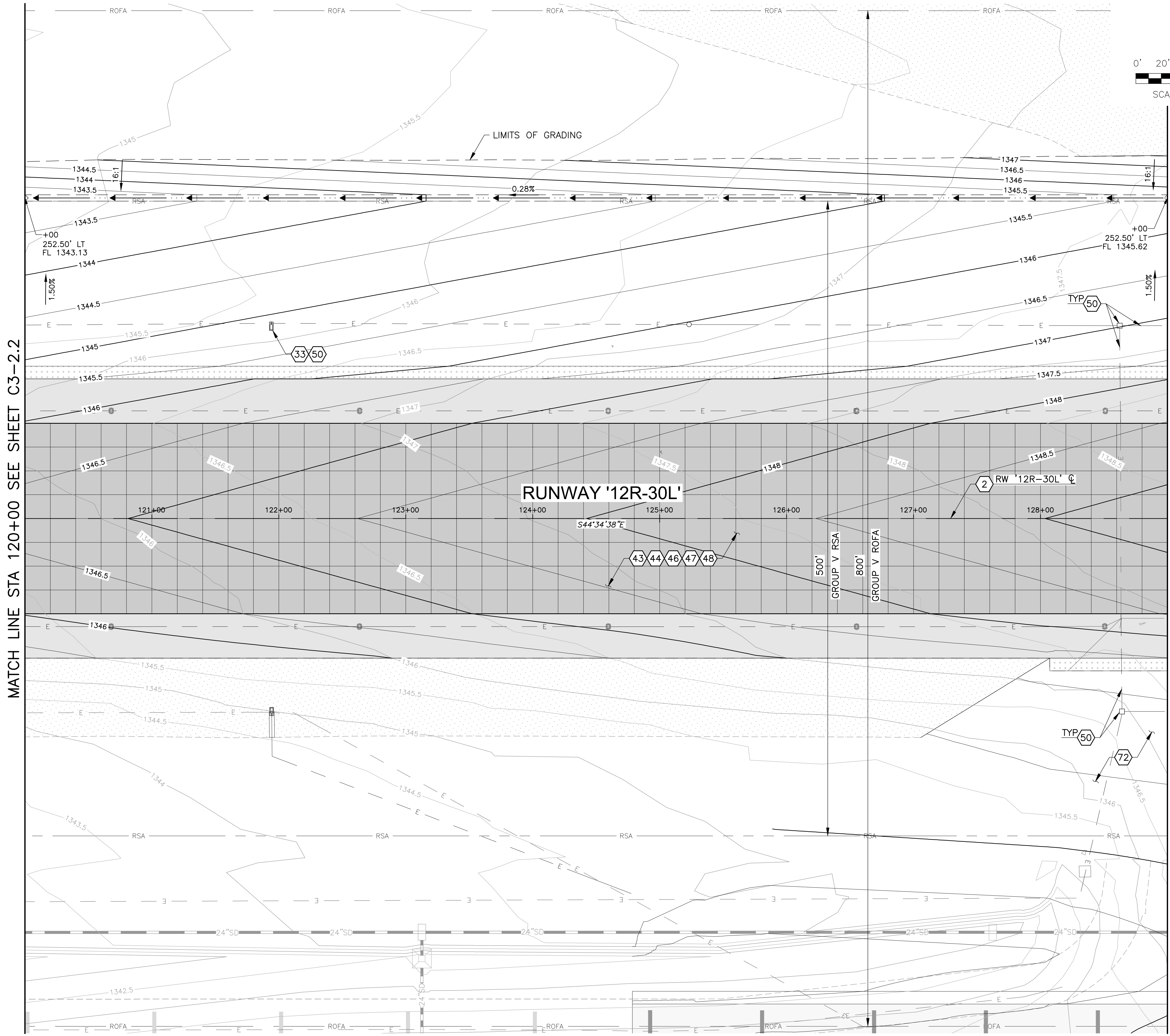
REV	DATE	DESCRIPTION

DIBBLE

Phoenix-Mesa Gateway Airport

DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MUB/KLS
 FILE NAME: 20023_2303-C3-2_X-GRAD-AA2

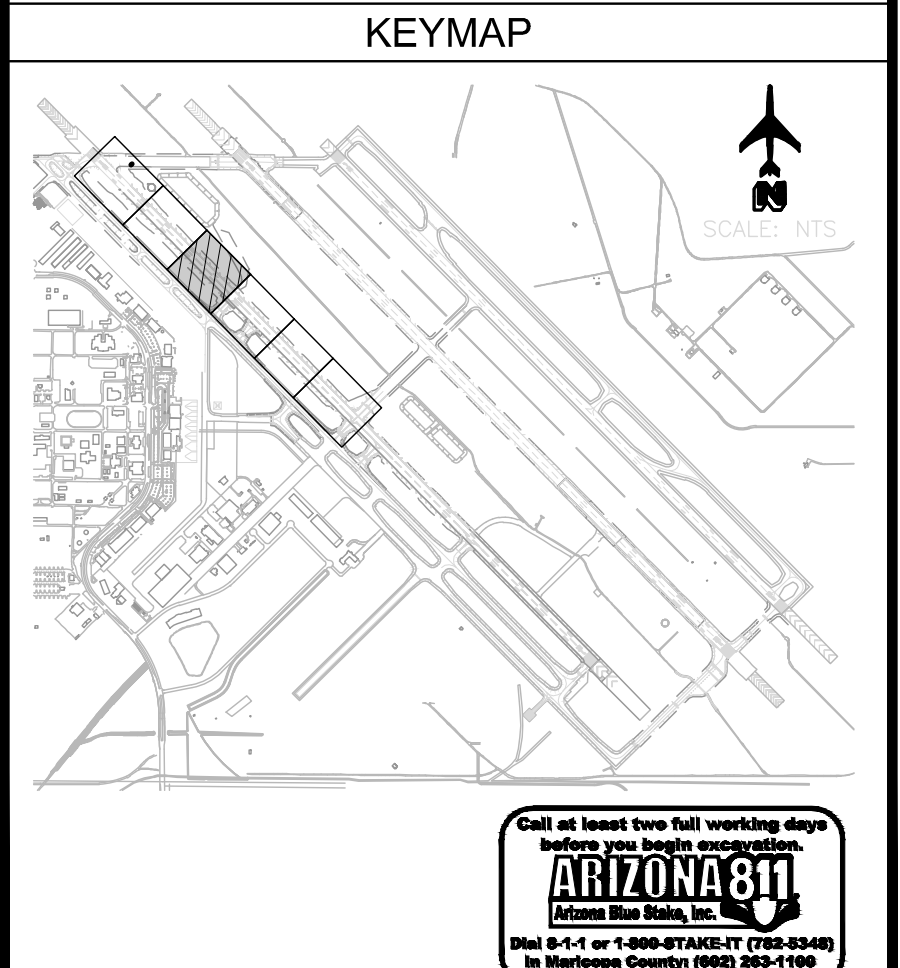
FILE: \\2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD-ALT-2\20023_2303-C3-2_X-GRAD_AA2.dwg DATE: April 26, 2023 TIME: 12:33 PM BY: trovis woodman



MATCH LINE STA 120+00 SEE SHEET C3-2.2

MATCH LINE STA 129+00 SEE SHEET C3-2.4

- REFERENCE NOTES
- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
 - 33 SEE DET 8, SHT G1-3.2 FOR GRADING AT SIGN BASE
 - 43 REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
 - 44 REFER TO PAVING PLAN AND PROFILE SHTS C3-1.1 TO C3-1.6
 - 46 REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
 - 47 REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
 - 48 REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
 - 50 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12
 - 72 REFER TO SCHEDULE IV GRADING & DRAINAGE SHTS C4-5.1 TO C4-5.2



REV	DATE	DESCRIPTION

DIBBLE

Phoenix-Mesa
Gateway
Airport

**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
STA 120+00 TO STA 129+00**

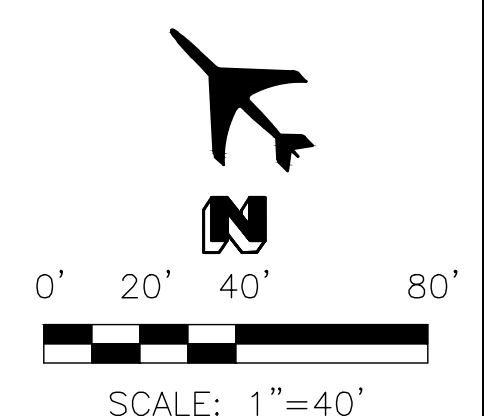
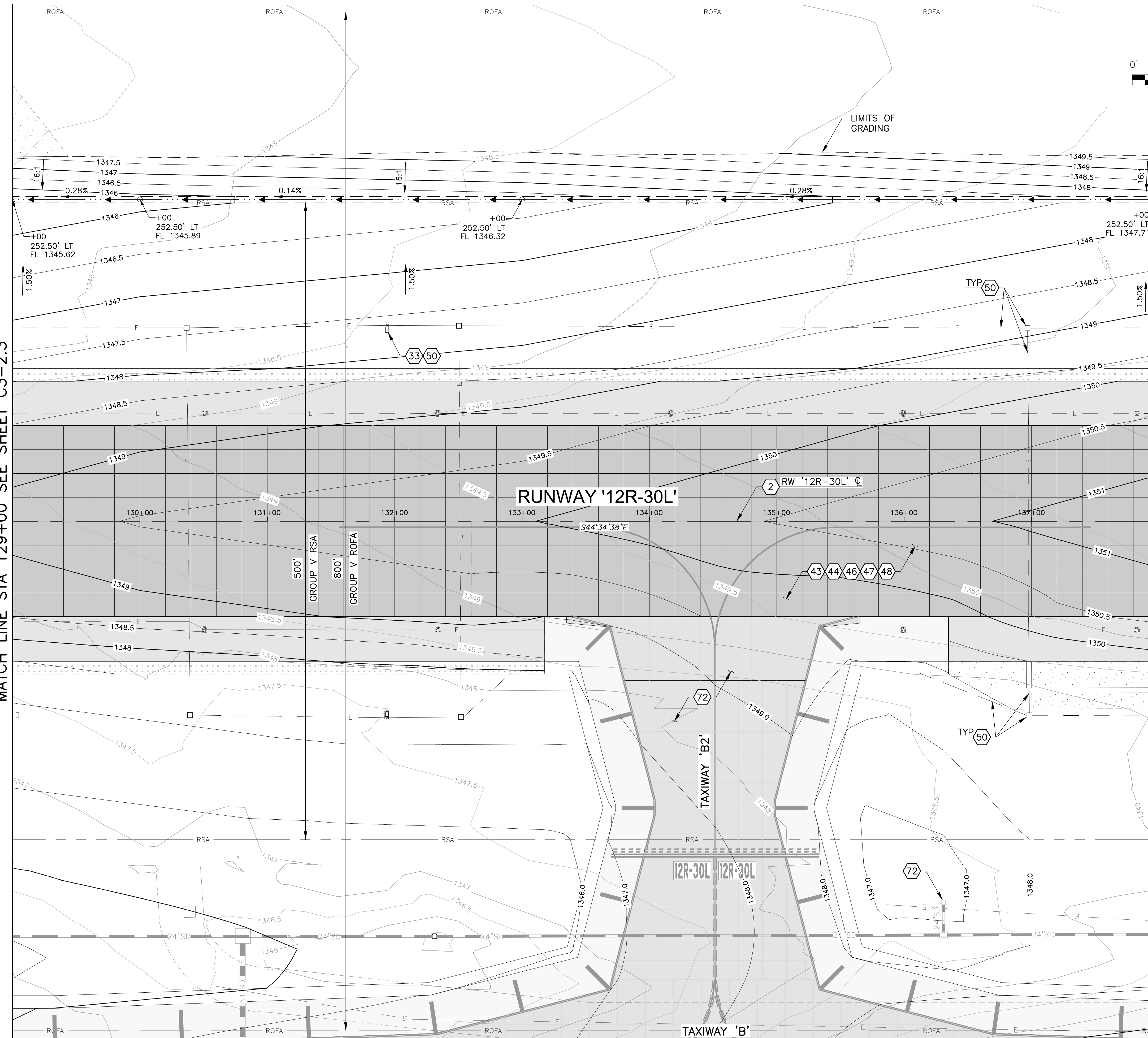
C3-2.3
SHEET NO.
119 OF 211

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Statewide
811
Dial 8-1-1 or 1-800-874-8111 (TDD-811) in Maricopa County (902) 253-1100

FILE: \\2020\1020023\2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023-2303-C3-2_X-GRAD_AA2.dwg DATE: April 26, 2023 TIME: 12:34 PM BY: trovis woodman

MATCH LINE STA 129+00 SEE SHEET C3-2.3

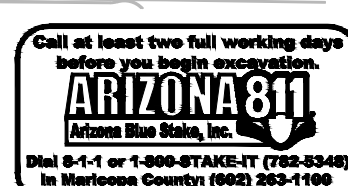
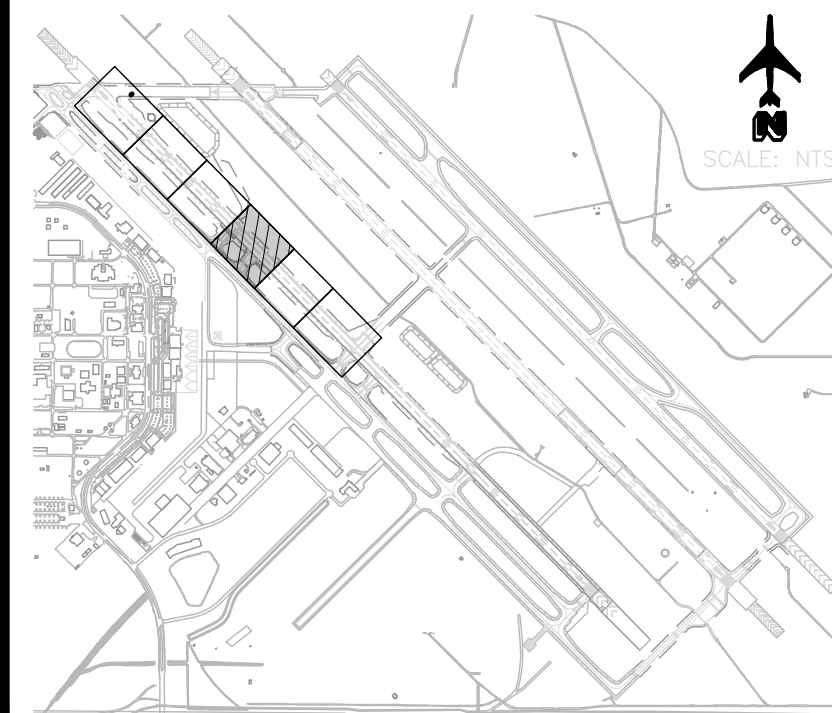
MATCH LINE STA 138+00 SEE SHEET C3-2.5



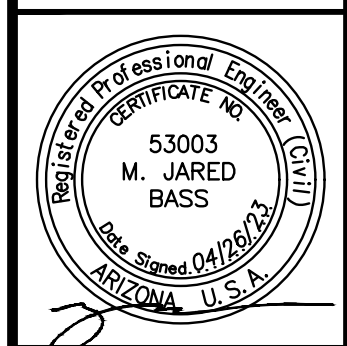
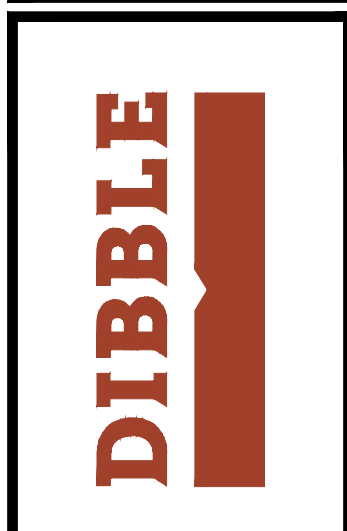
REFERENCE NOTES

- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
- 33 SEE DET 8, SHT G1-3.2 FOR GRADING AT SIGN BASE
- 43 REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
- 44 REFER TO PAVING PLAN AND PROFILE SHTS C3-1.1 TO C3-1.6
- 46 REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
- 47 REFER TO PCCP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
- 48 REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
- 50 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12
- 72 REFER TO SCHEDULE IV GRADING & DRAINAGE SHTS C4-5.1 TO C4-5.2

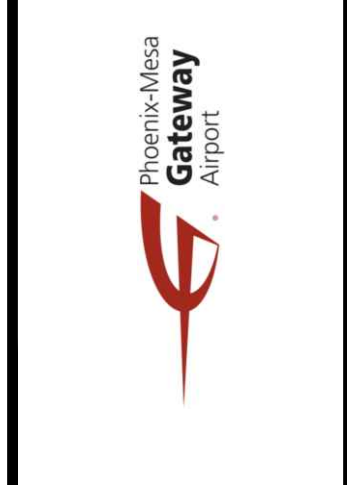
KEYMAP



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C3-2_X-GRAD_AA2



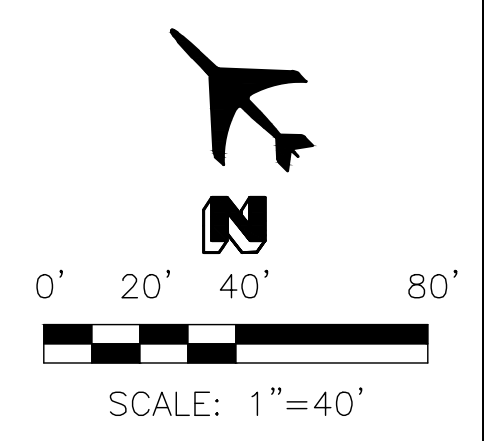
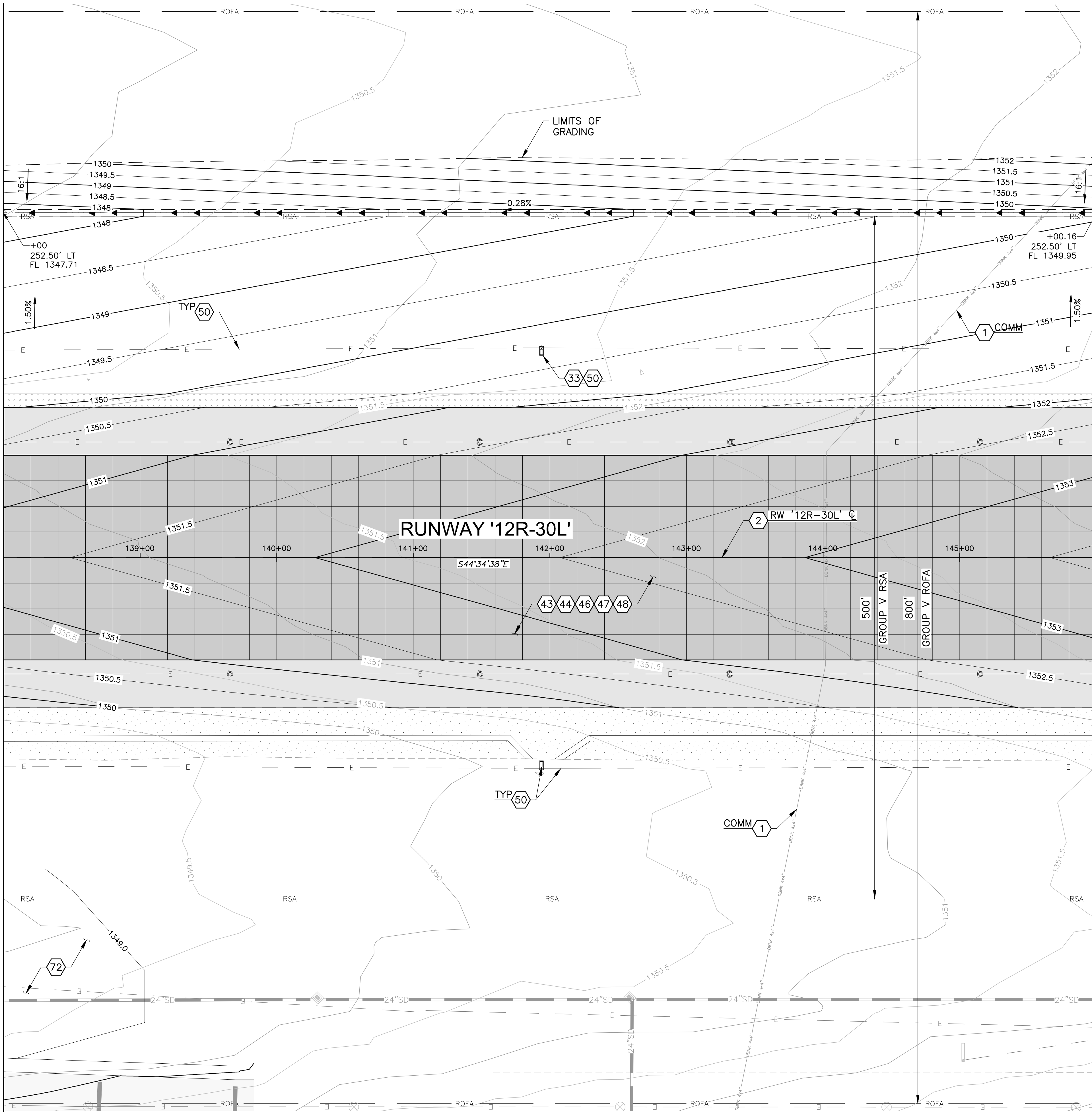
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
STA 129+00 TO STA 138+00**

C3-2.4
SHEET NO.
120 OF 211

FILE: 2020\1020023.2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD_ABD--ALT--2\20023_2303-C3-2_X-GRAD_A42.dwg DATE: April 26, 2023 TIME: 12:34 PM BY: trovis woodman

MATCH LINE STA 138+00 SEE SHEET C3-2.4

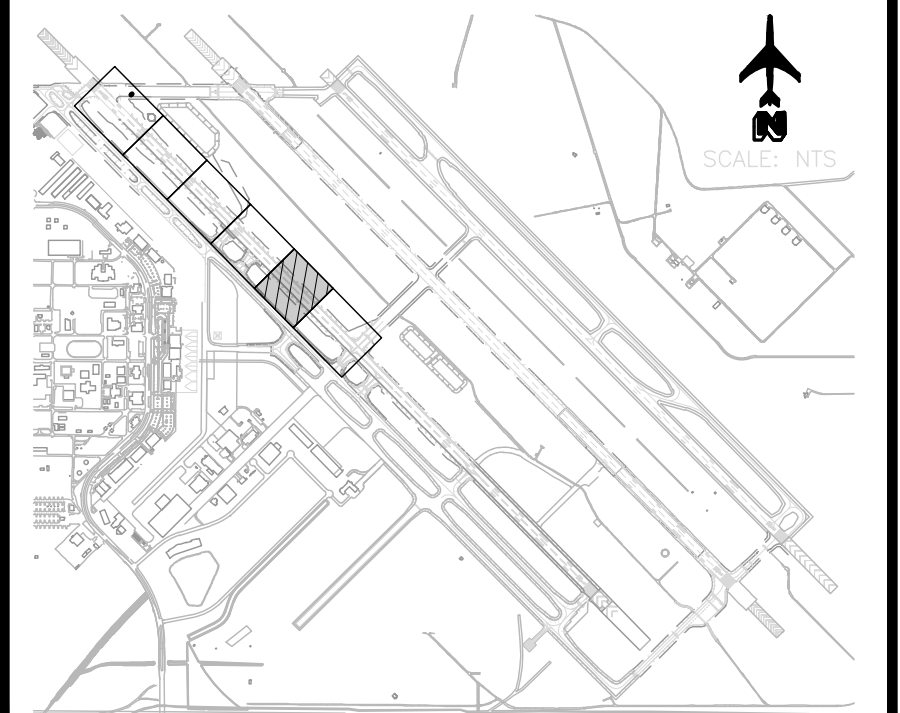
MATCH LINE STA 146+00 SEE SHEET C3-2.6



REFERENCE NOTES

- 1 PROTECT IN PLACE
- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
- 33 SEE DET 8, SHT G1-3.2 FOR GRADING AT SIGN BASE
- 43 REFER TO DEMOLITION PLANS SHTS D3-1.1 TO D3-1.6
- 44 REFER TO PAVING PLAN AND PROFILE SHTS C3-1.1 TO C3-1.6
- 46 REFER TO PAVEMENT ELEVATION PLANS SHTS C3-3.1 TO C3-3.6
- 47 REFER TO PCJP JOINT LAYOUT PLANS SHTS C3-4.1 TO C3-4.6
- 48 REFER TO PAVEMENT MARKING PLANS SHT C3-5.1 TO C3-5.3
- 50 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E3-3.1 TO E3-3.12
- 72 REFER TO SCHEDULE IV GRADING & DRAINAGE SHTS C4-5.1 TO C4-5.2

KEYMAP

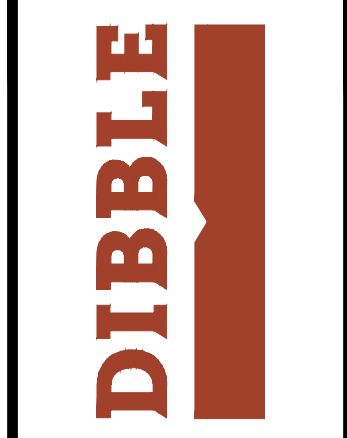


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
STA 138+00 TO STA 146+00**

C3-2.5
SHEET NO.
121 OF 211



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 2002_2303-C3-2_X-GRAD_A42

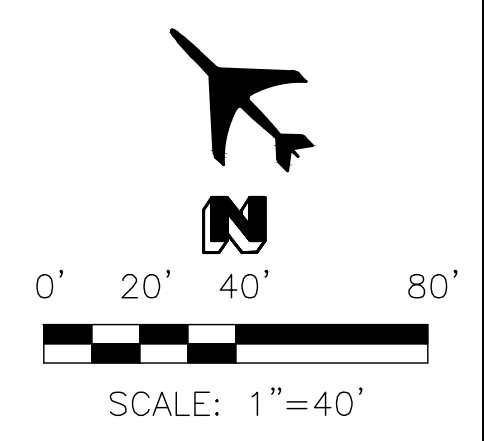
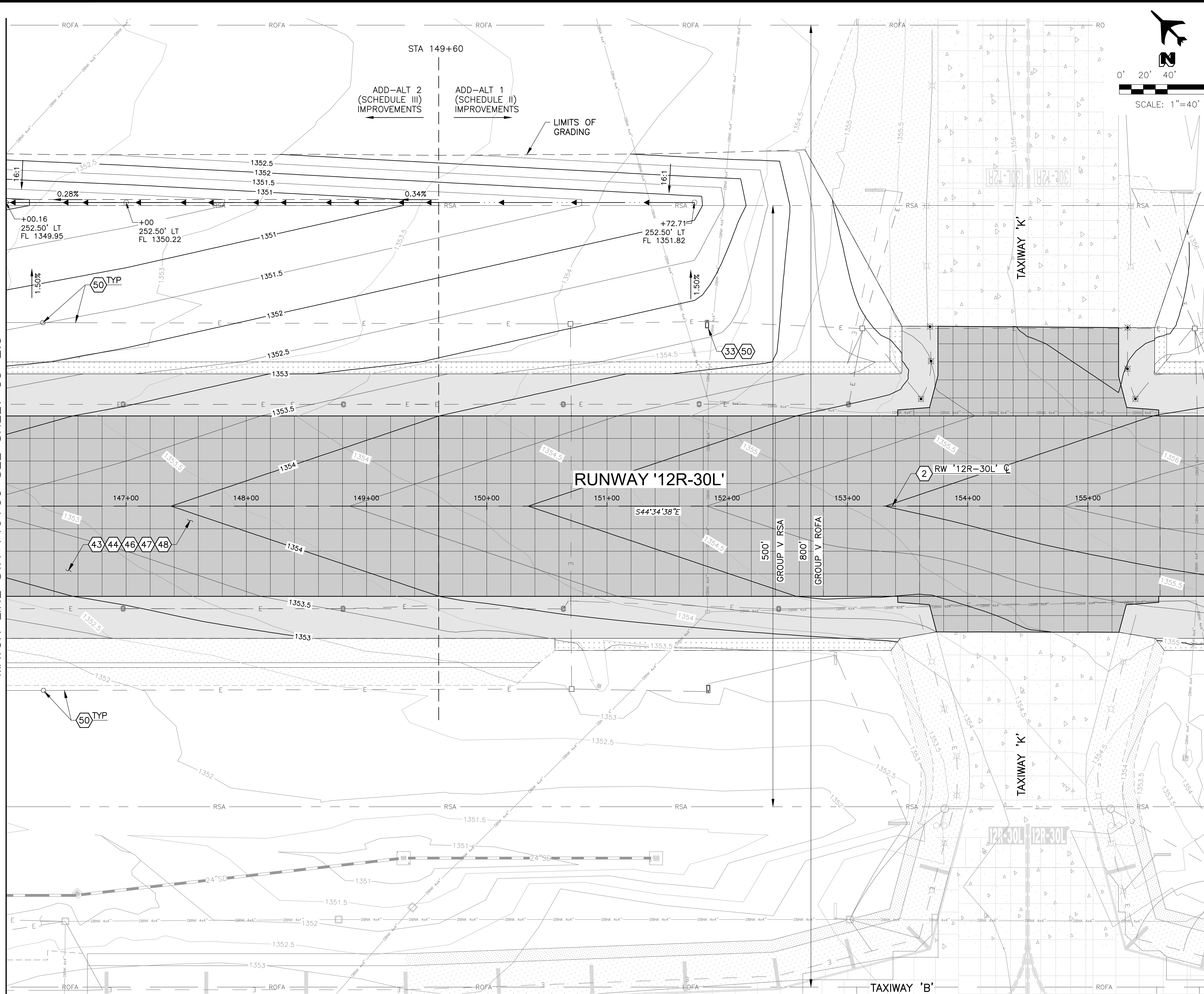


REV	DATE	DESCRIPTION



FILE:J:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023-2303-C3-2 X-GRAD-AA2.dwg DATE:April 26, 2023 TIME:12:34 PM BY:trovis woodman

MATCH LINE STA 146+00 SEE SHEET C3-2.5

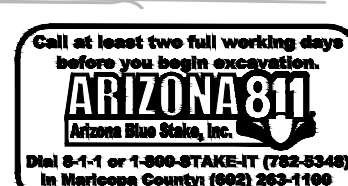
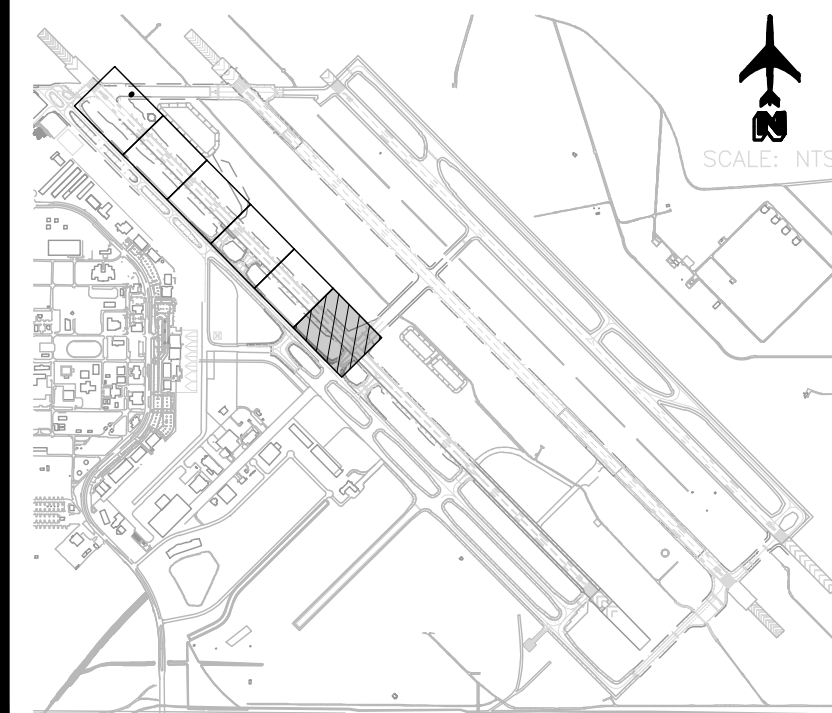


MATCH LINE STA 156+00 SEE SHEET C2-2.2

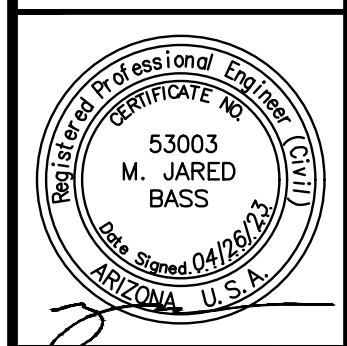
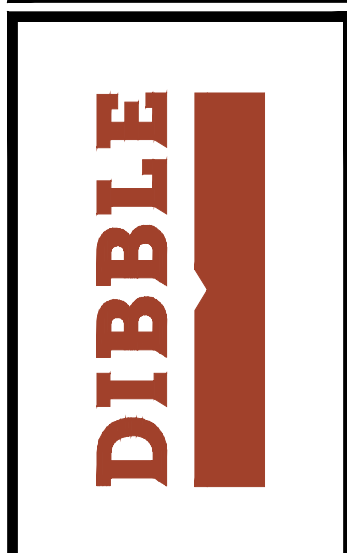
REFERENCE NOTES

- 2 REFER TO PROJECT SITE PLAN SHT G1-1.3
- 33 SEE DET 8, SHT G1-3.2 FOR GRADING AT SIGN BASE
- 43 REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
- 44 REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
- 46 REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
- 47 REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
- 48 REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
- 50 REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7

KEYMAP



REV	DATE	DESCRIPTION

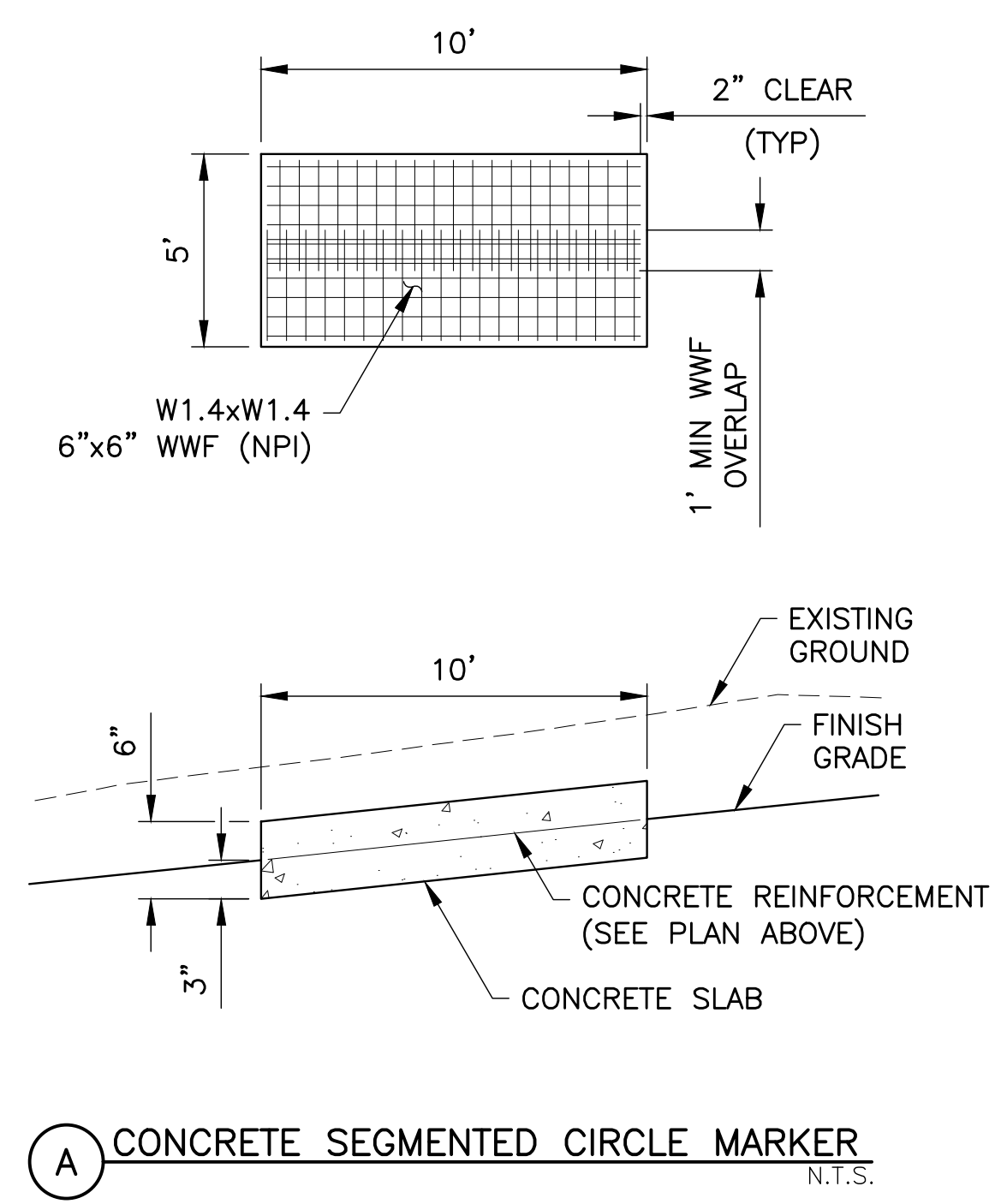
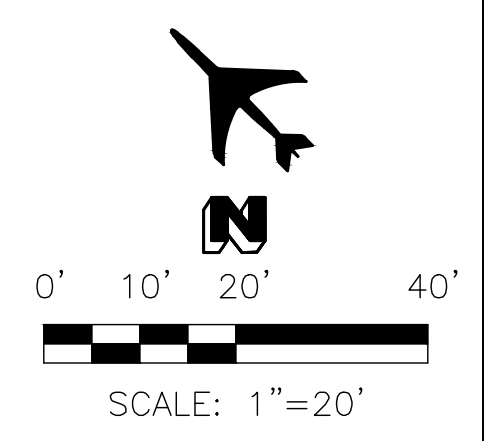
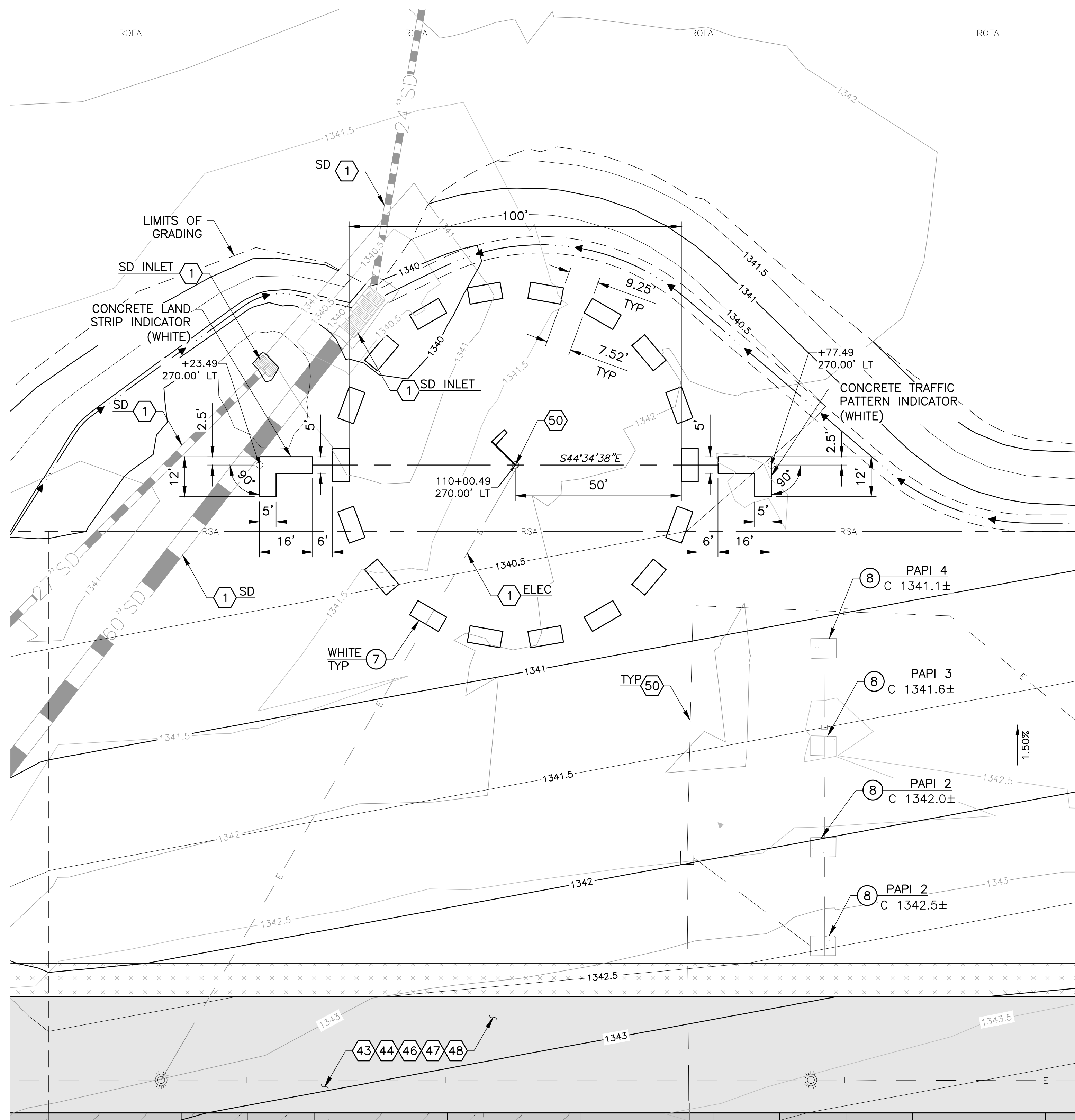


DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	20023_2303-C3-2_X-GRAD_AA2



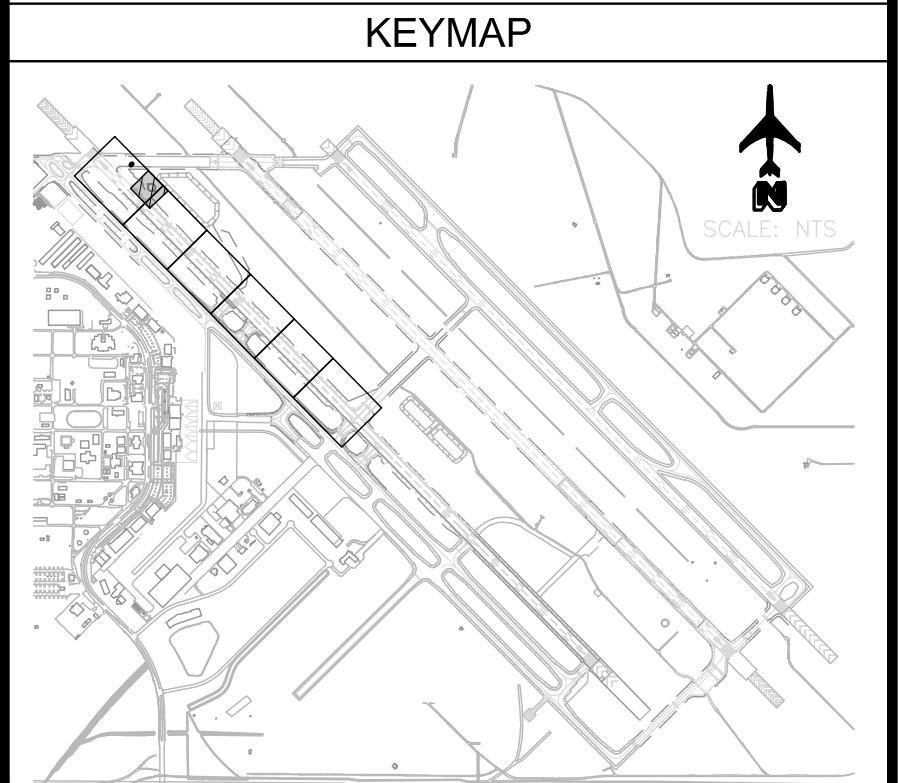
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
STA 146+00 TO STA 156+00**

FILE: \\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-2_X-GRAD_AA2.dwg DATE: April 26, 2023 TIME: 12:34 PM BY: trovis woodman

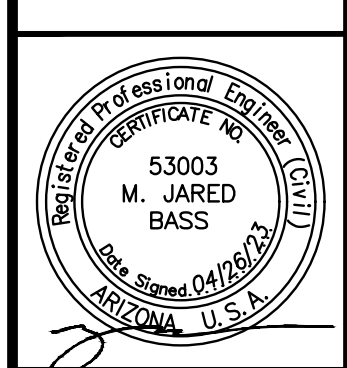
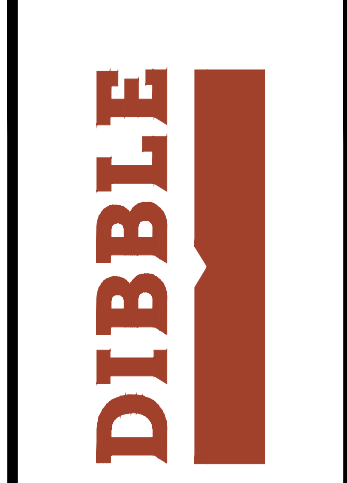


- CONST NOTES (ADD ALT 2 - SCH III) ○
- ⑦ SEGMENTED CIRCLE MARKER SYSTEM 1 LS
DET A, THIS SHT
- ⑧ PAPI CONCRETE PADS, SALVAGE & REINSTALL EXISTING PAPIS 1 LS

- REFERENCE NOTES
- ① PROTECT IN PLACE
 - ④③ REFER TO DEMOLITION PLANS SHTS D1-1.1 TO D1-1.3
 - ④④ REFER TO PAVING PLAN AND PROFILE SHTS C1-1.1 TO C1-1.3
 - ④⑥ REFER TO PAVEMENT ELEVATION PLANS SHTS C1-3.1 TO C1-3.3
 - ④⑦ REFER TO PCCP JOINT LAYOUT PLANS SHTS C1-4.1 TO C1-4.4
 - ④⑧ REFER TO PAVEMENT MARKING PLANS SHTS C1-5.1 TO C1-5.4
 - ⑤① REFER TO ELECTRICAL INSTALLATION PLAN SHTS E1-3.1 TO E1-3.7



REV	DATE	DESCRIPTION



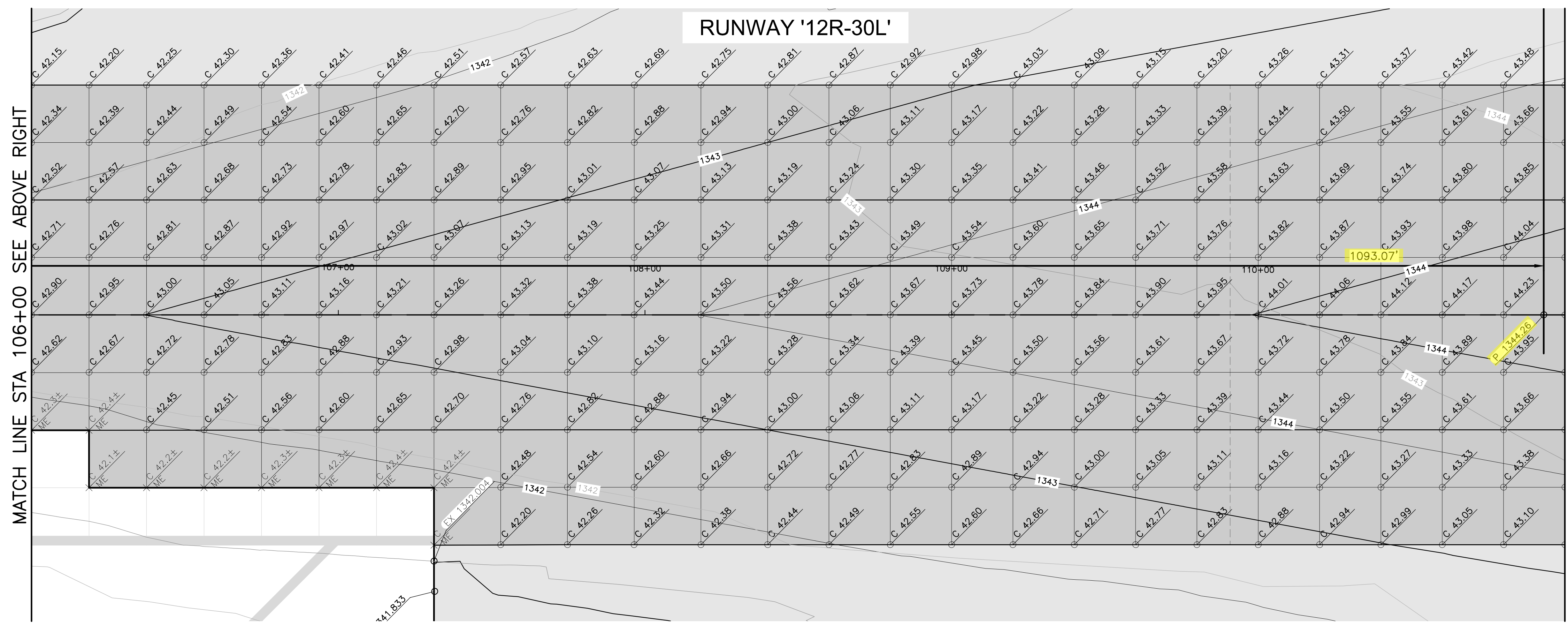
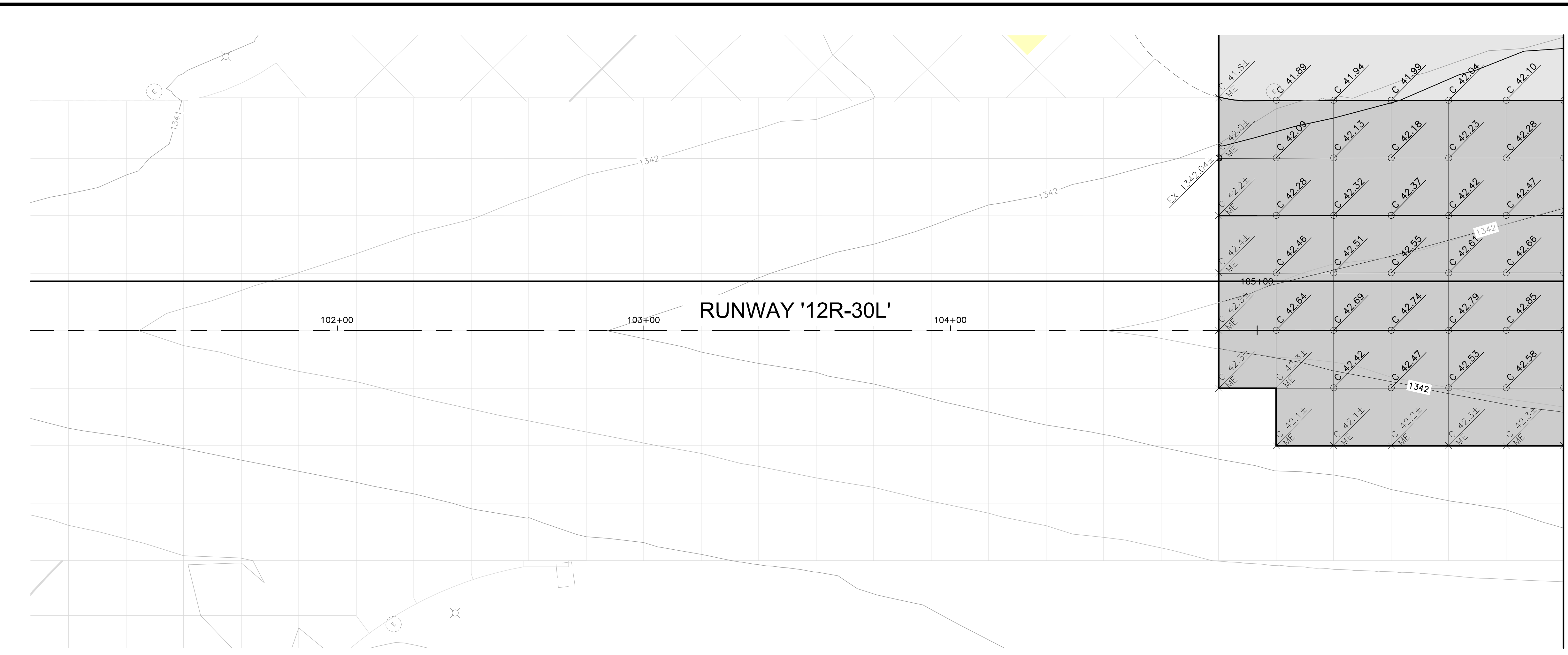
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MUB/KLS
FILE NAME:	20023_2303-C3-2_X-GRAD_AA2



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) GRADING & DRAINAGE PLAN
PAPI & SEGMENTED CIRCLE GEO & GRADE**



FILE: \\2020\1020023\2303 PAVMAA RW 12R-30L Reconstruction (Design)\CAD_A00-ALT-2\20023_2303-C3-3_X-ELEV_A02.dwg DATE: April 26, 2023 TIME: 12:36 PM BY: travis.woodman



MATCH LINE STA 106+00 SEE BELOW LEFT

MATCH LINE STA 111+00 SEE SHEET C3-3.2

LEGEND

- PROPOSED SPOT ELEV (+1300)
- EXISTING SPOT ELEV (+1300)

KEYMAP

REV	DATE	DESCRIPTION

DIBBLE

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2002_2303-C3-3_X-ELEV_A02



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT ELEVATION PLAN
STA 101+00 TO STA 111+00**

C3-3.1

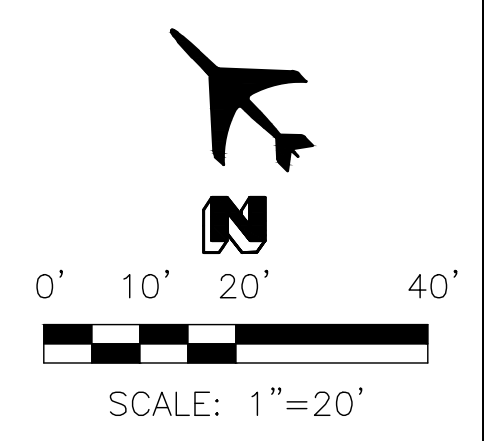
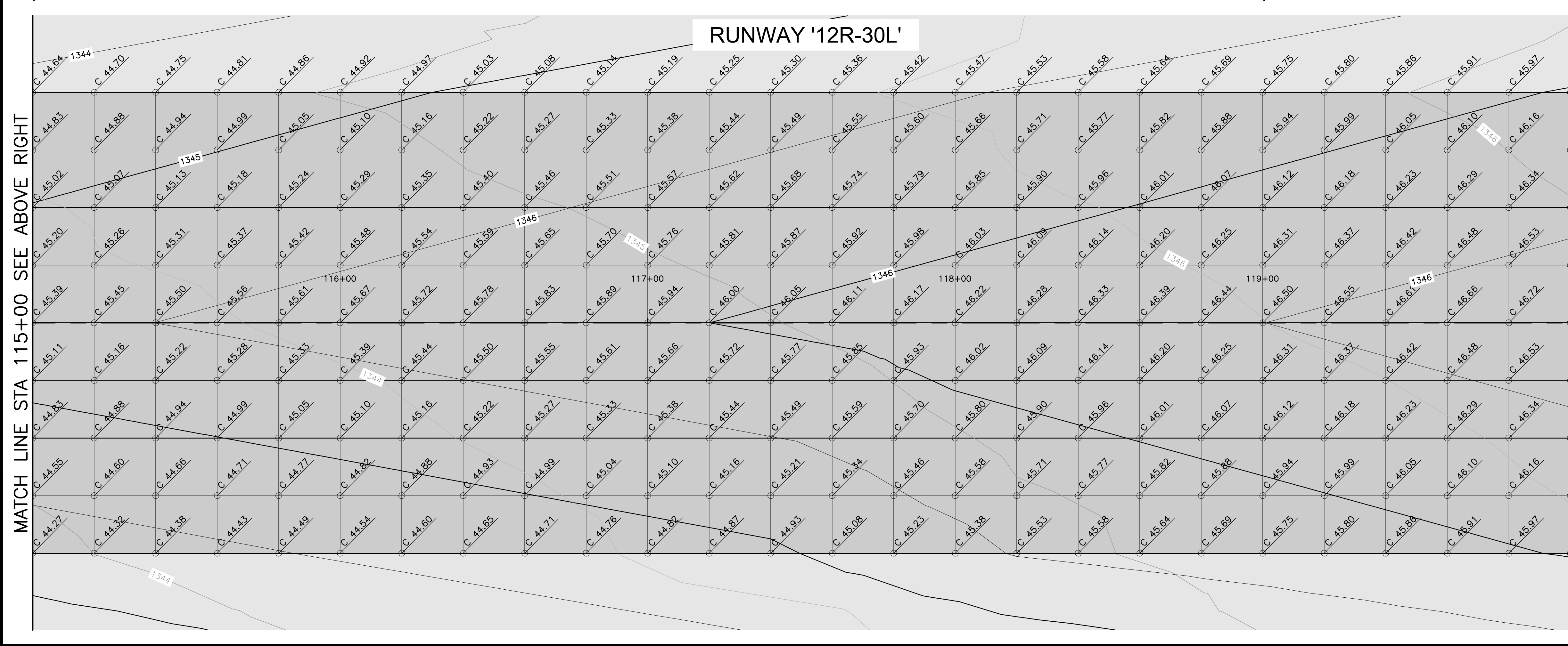
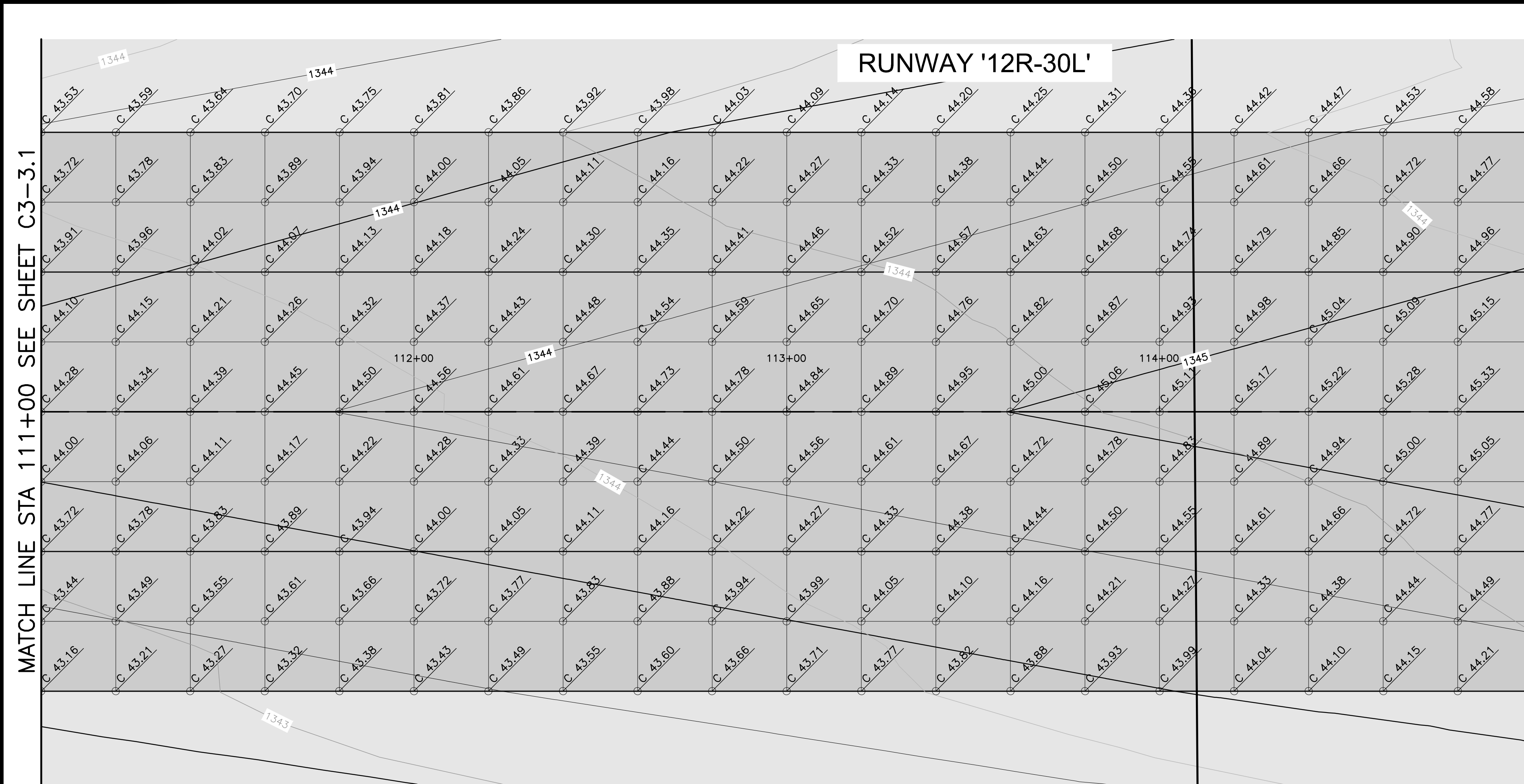
SHEET NO.
124 OF 211

Call at least two full working days before you begin excavation.

ARIZONA811
Arizona Statewide Utility Service

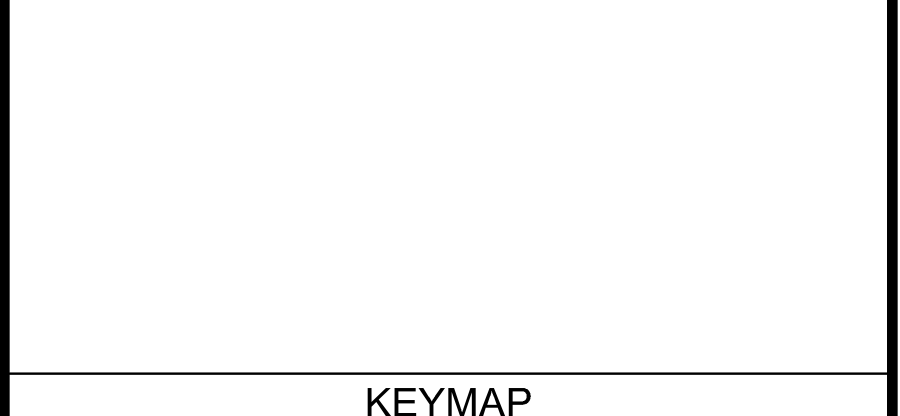
Dist 6-11 or 1-800-874-8111 (TDD-8348)
In Maricopa County (602) 253-1100

FILE:J:\2020\1020023.2303 PINGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023.2303-C3-3_X-ELEV_A02.dwg DATE:April 26, 2023 TIME:12:36 PM BY:travis_woodman

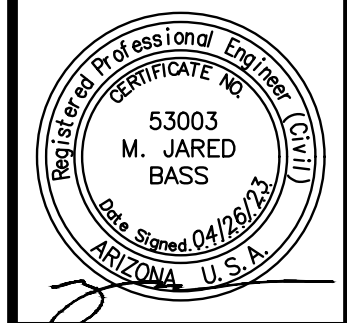
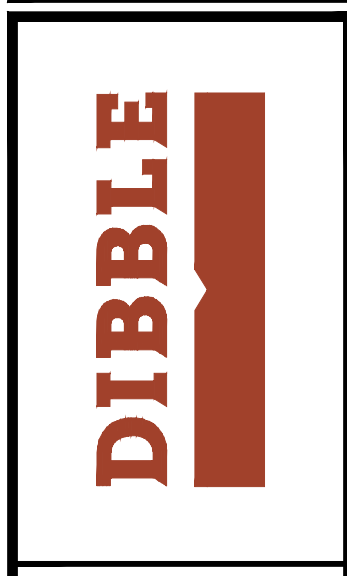


LEGEND

	PROPOSED SPOT ELEV (+1300)
	EXISTING SPOT ELEV (+1300)
	PCCP JOINT
	PCCP JOINT



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2002_2303-C3-3_X-ELEV_A02

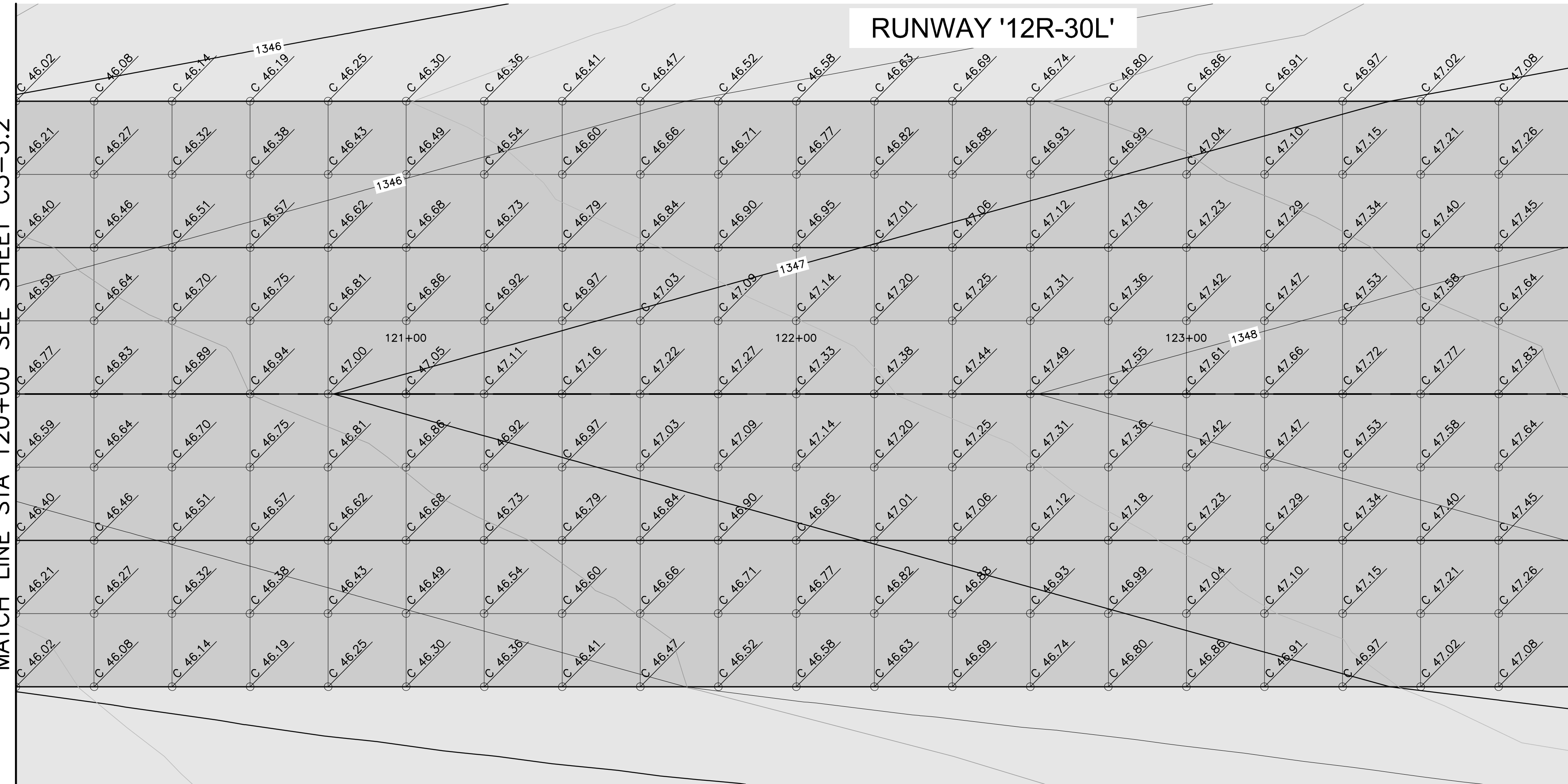


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT ELEVATION PLAN
STA 111+00 TO STA 120+00**

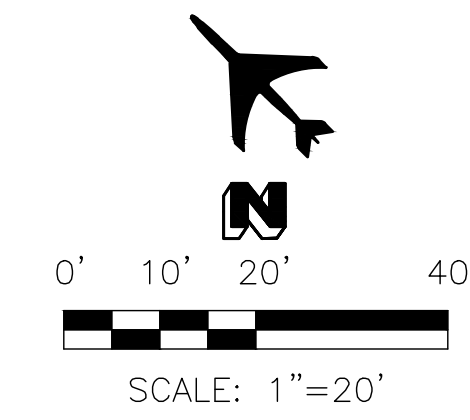


FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023.2303-C3-3_X-ELEV_A02.dwg DATE: April 26, 2023 TIME: 12:36 PM BY: travis.woodman

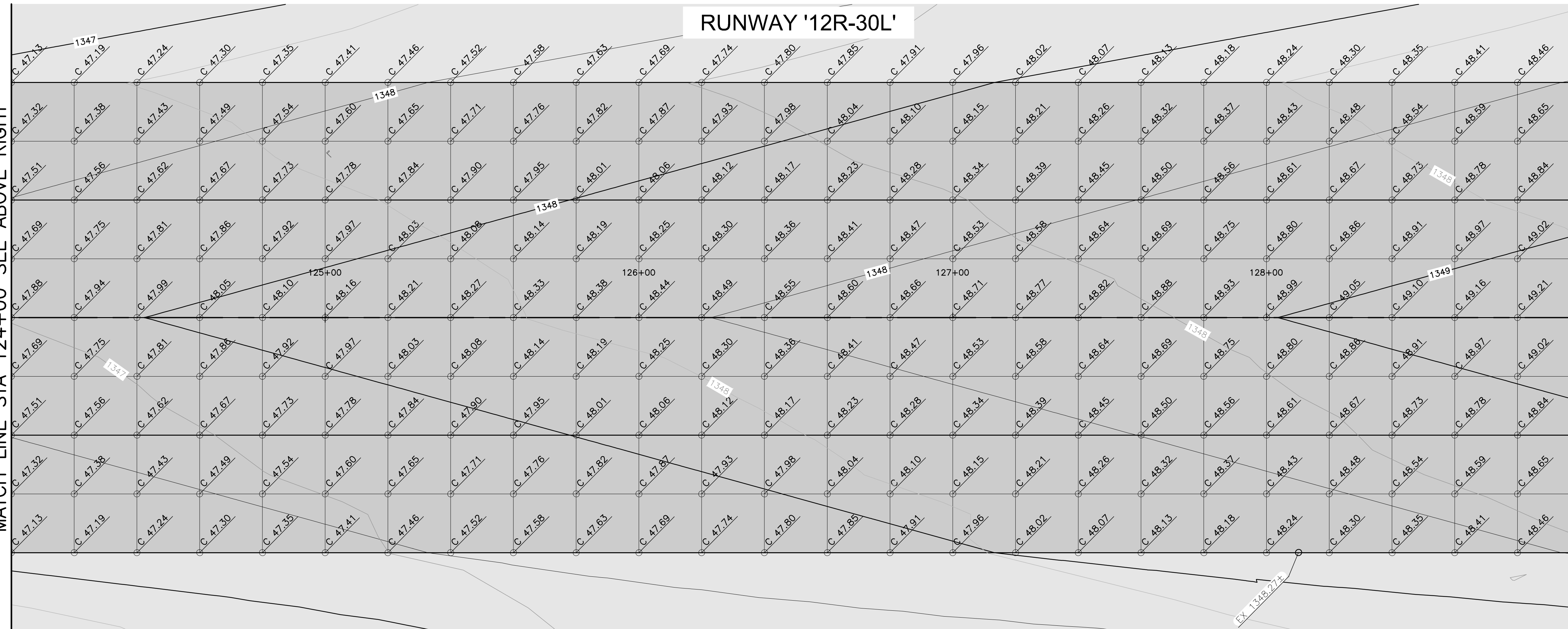
MATCH LINE STA 120+00 SEE SHEET C3-3.2



MATCH LINE STA 124+00 SEE BELOW LEFT



MATCH LINE STA 124+00 SEE ABOVE RIGHT

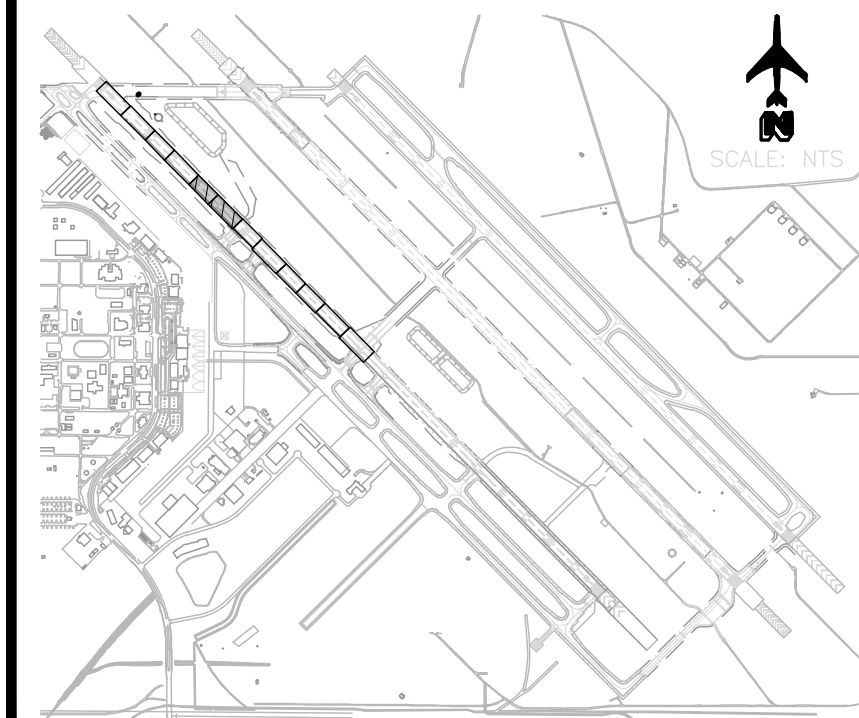


MATCH LINE STA 129+00 SEE SHEET C3-3.4

LEGEND

- C XX.XX PROPOSED SPOT ELEV
- ⊙ PCCP JOINT (+1300)
- ⊕ C XX.XX EXISTING SPOT ELEV
- ⊙ PCCP JOINT (+1300)

KEYMAP



REV	DATE	DESCRIPTION



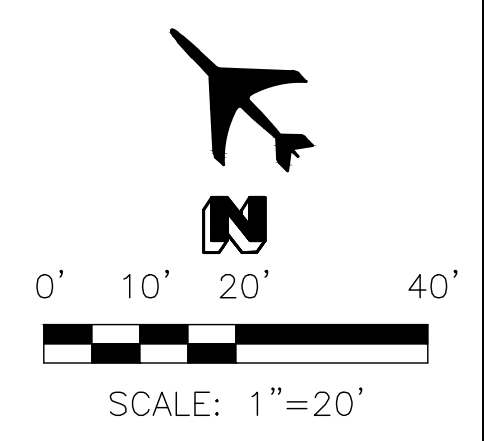
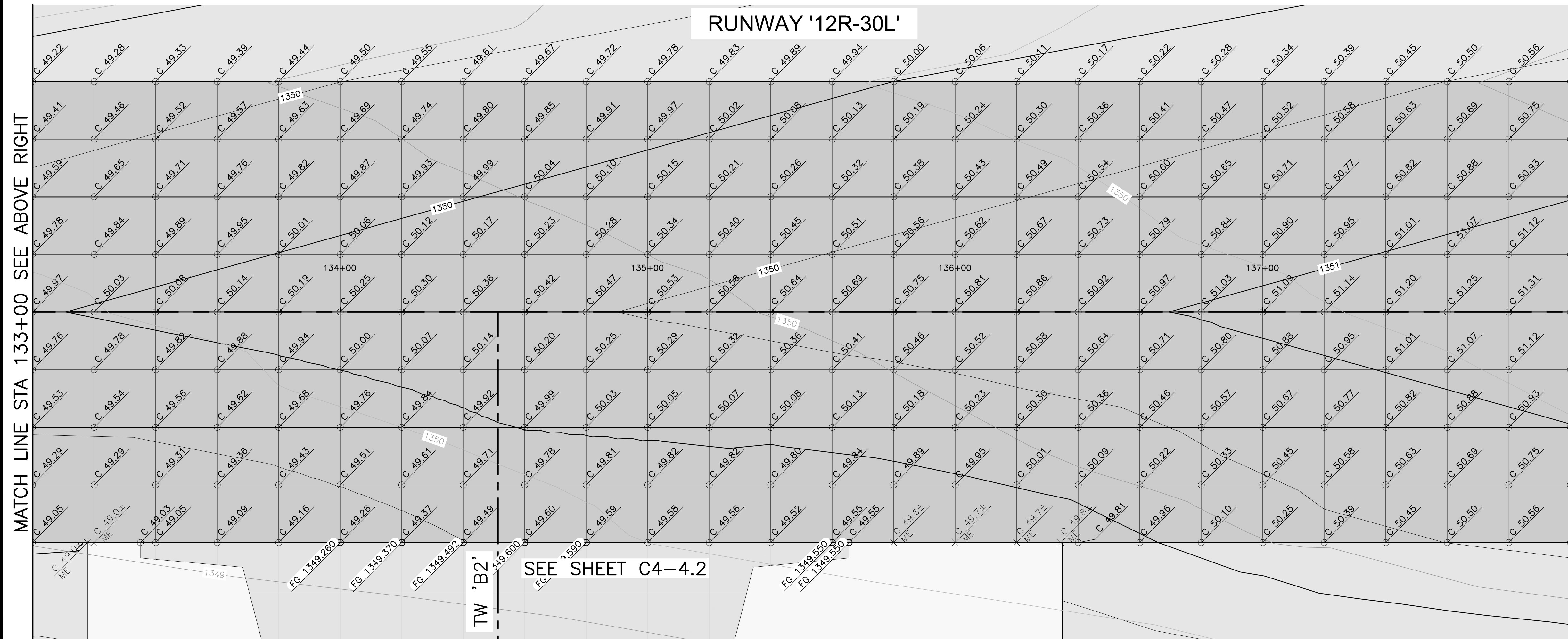
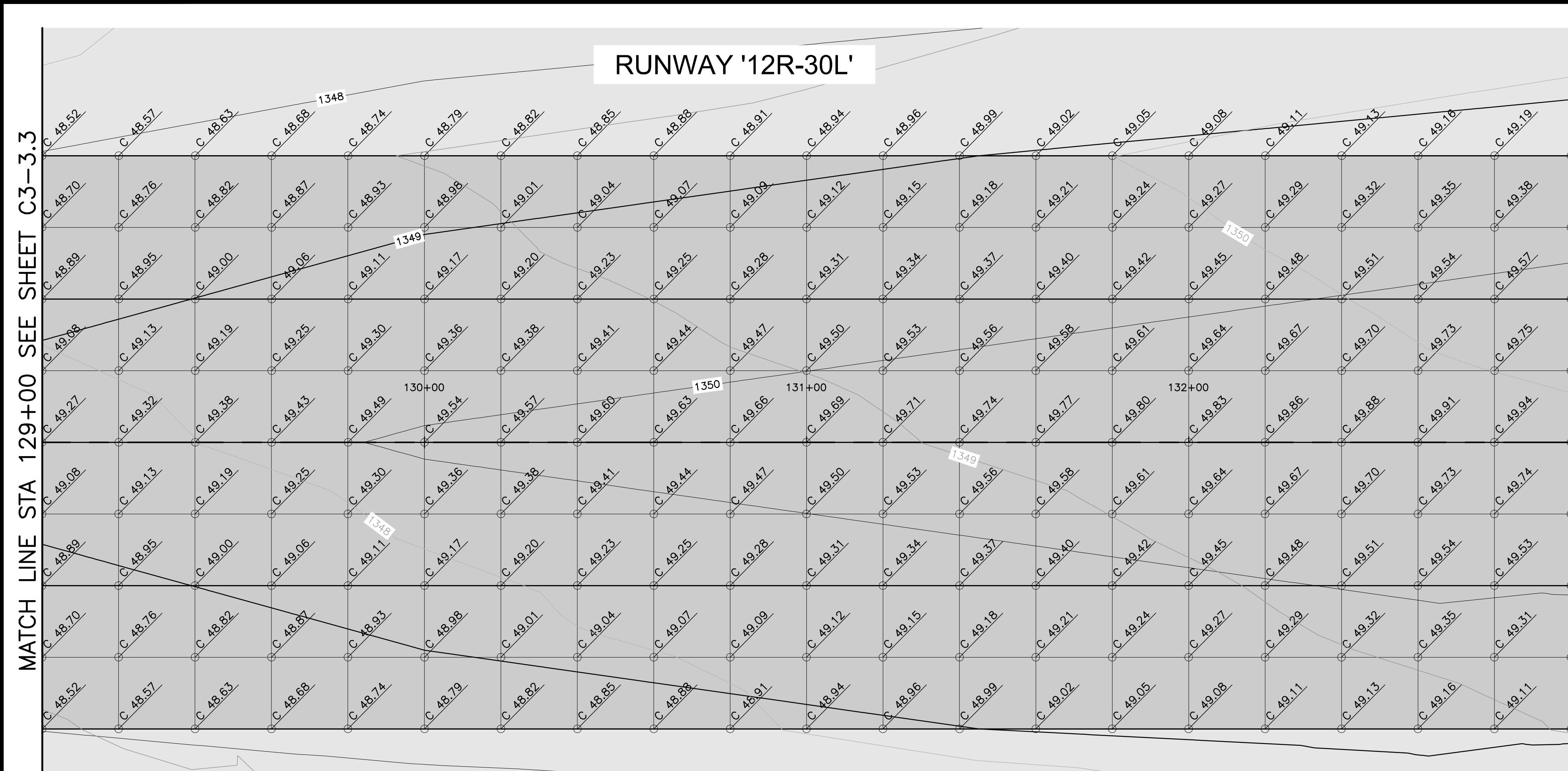
DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 2003.2303-C3-3_X-ELEV_A02



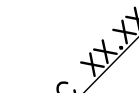
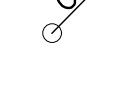


**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) PAVEMENT ELEVATION PLAN
 STA 120+00 TO STA 129+00**

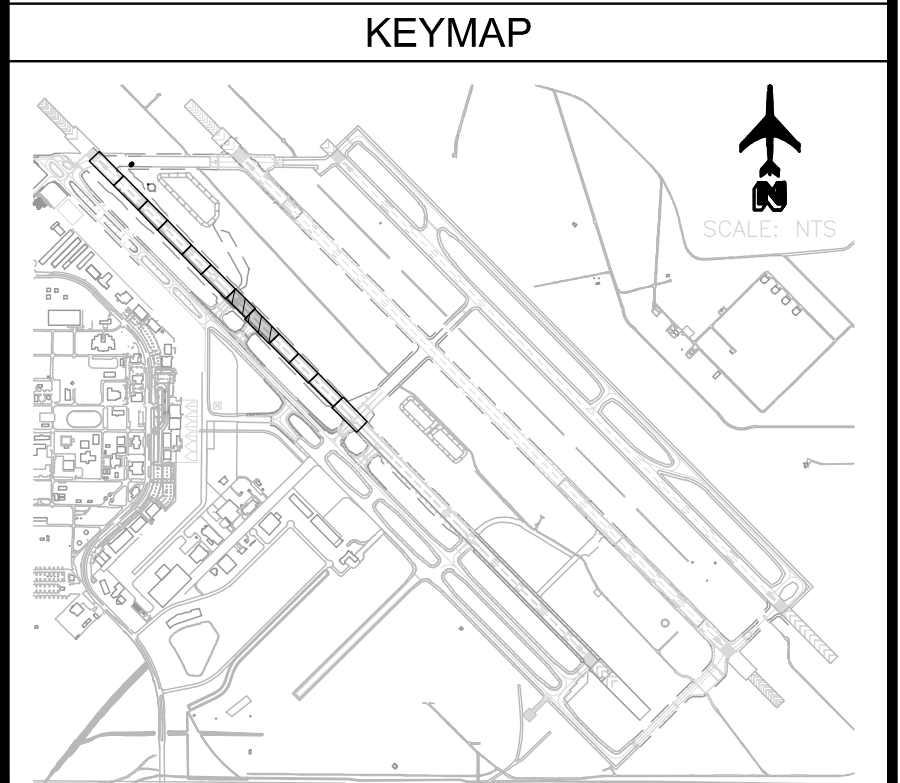
C3-3.3
 SHEET NO.
 126 OF 211

FILE:J:\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\20023.2303-C3-3_X-ELEV_A02.dwg DATE:April 26, 2023 TIME:12:37 PM BY:travis woodman

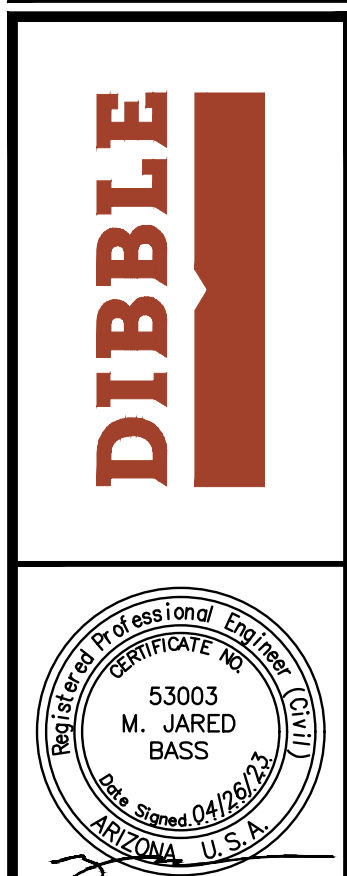


LEGEND

	PROPOSED SPOT ELEV
	PCCP JOINT (+1300)
	EXISTING SPOT ELEV
	PCCP JOINT (+1300)



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C3-3_X-ELEV_A02

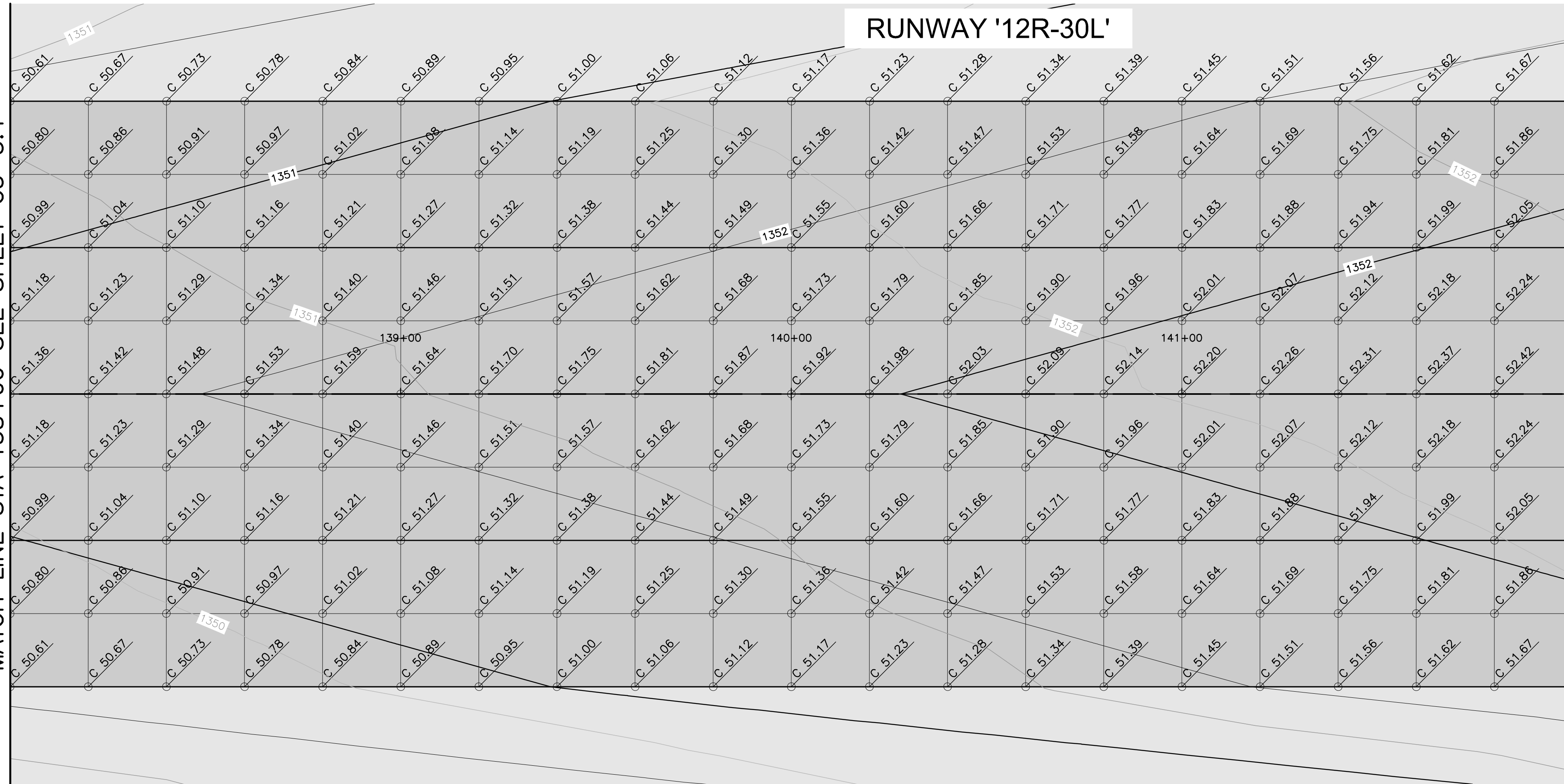


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT ELEVATION PLAN
STA 129+00 TO STA 138+00**



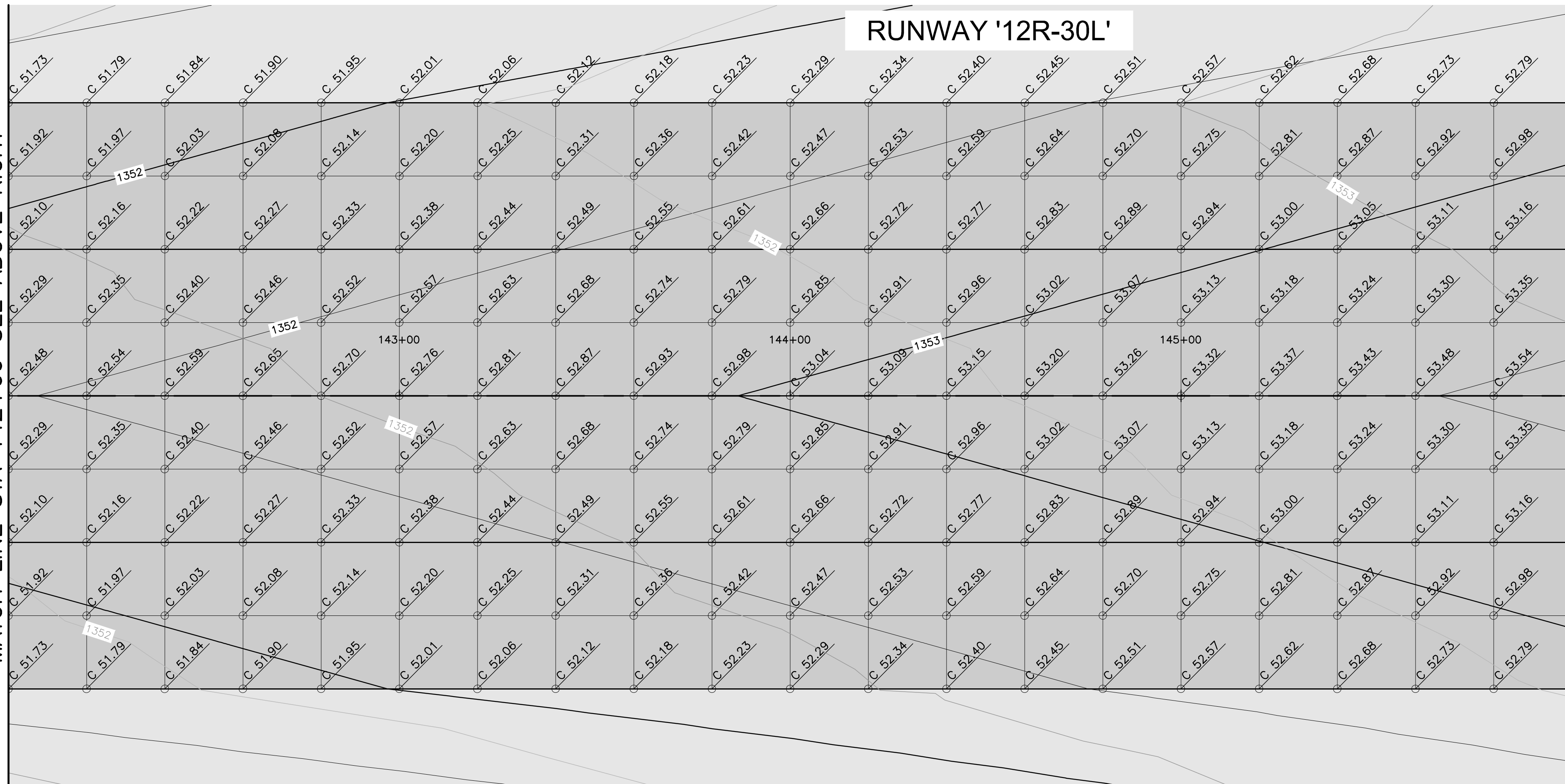
FILE:J:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-3_X-ELEV_A02.dwg DATE:April 26, 2023 TIME:12:37 PM BY:travis woodman

MATCH LINE STA 138+00 SEE SHEET C3-3.4

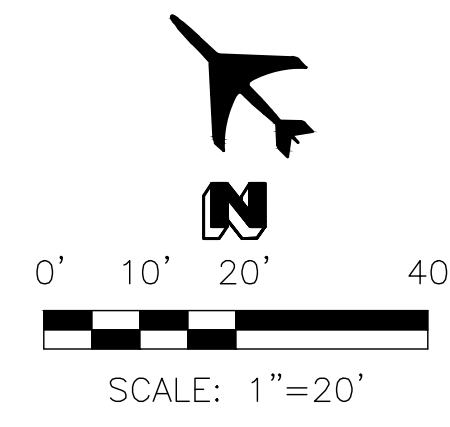


MATCH LINE STA 142+00 SEE BELOW LEFT

MATCH LINE STA 142+00 SEE ABOVE RIGHT



MATCH LINE STA 146+00 SEE SHEET C3-3.6



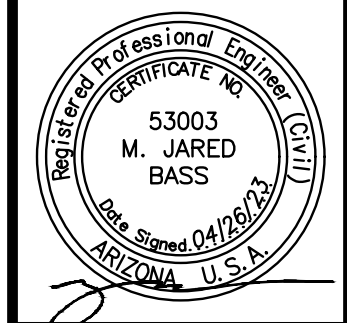
LEGEND

- PROPOSED SPOT ELEV (+1300)
- PCCP JOINT (+1300)
- EXISTING SPOT ELEV (+1300)
- PCCP JOINT (+1300)
- PROPOSED SPOT ELEV (+1300)
- ASPH PAVEMENT (+1300)

KEYMAP

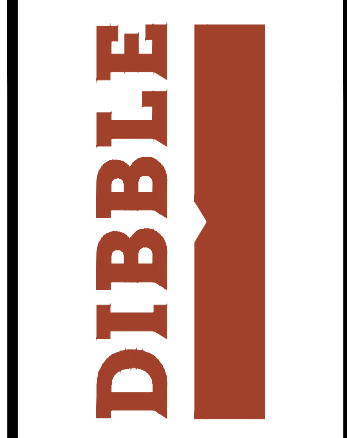
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT ELEVATION PLAN
STA 138+00 TO STA 146+00**

C3-3.5
SHEET NO.
128 OF 211

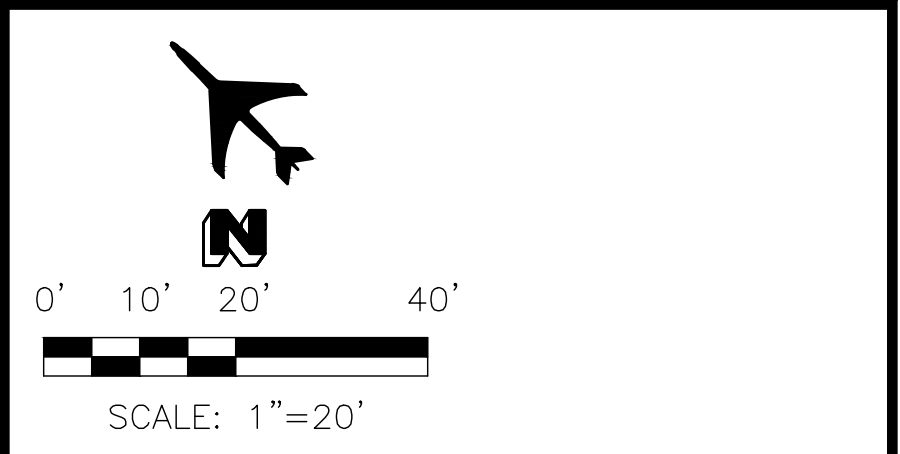
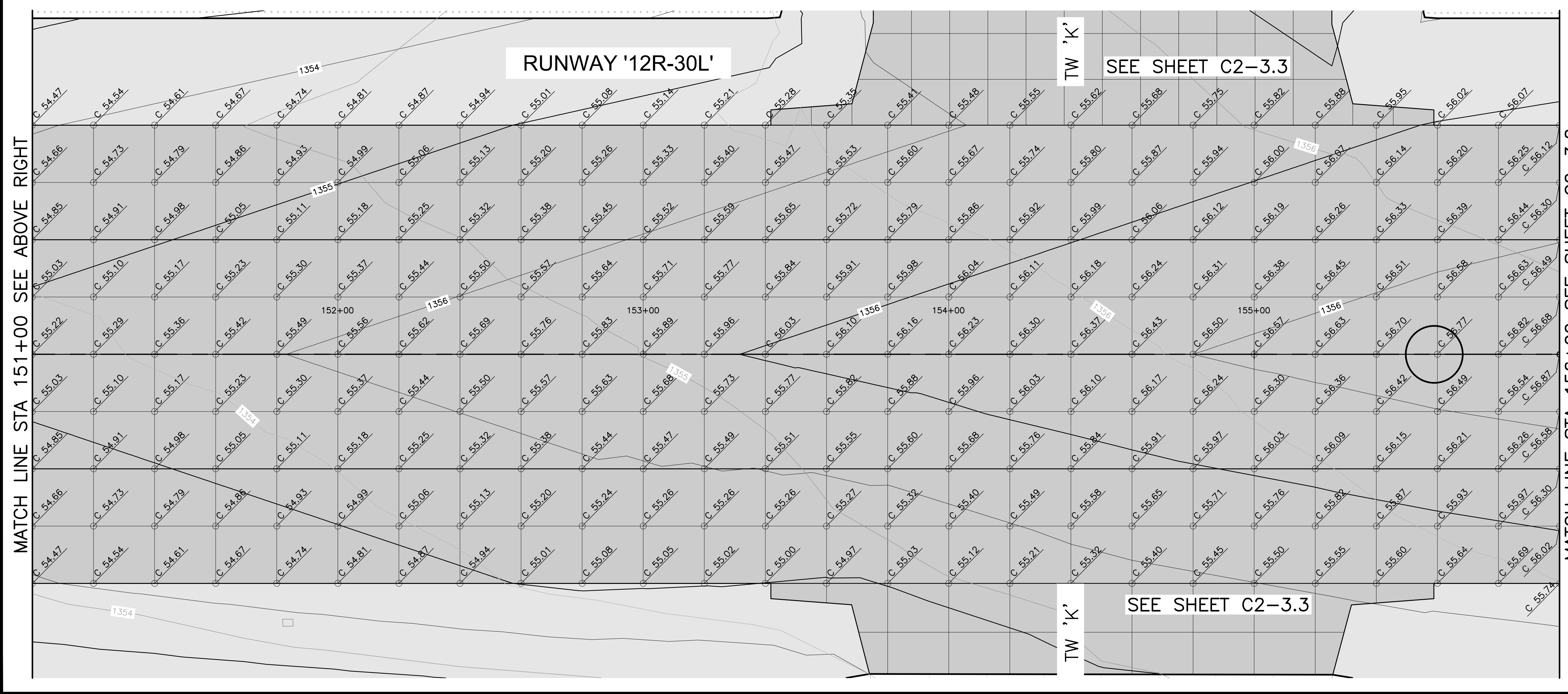
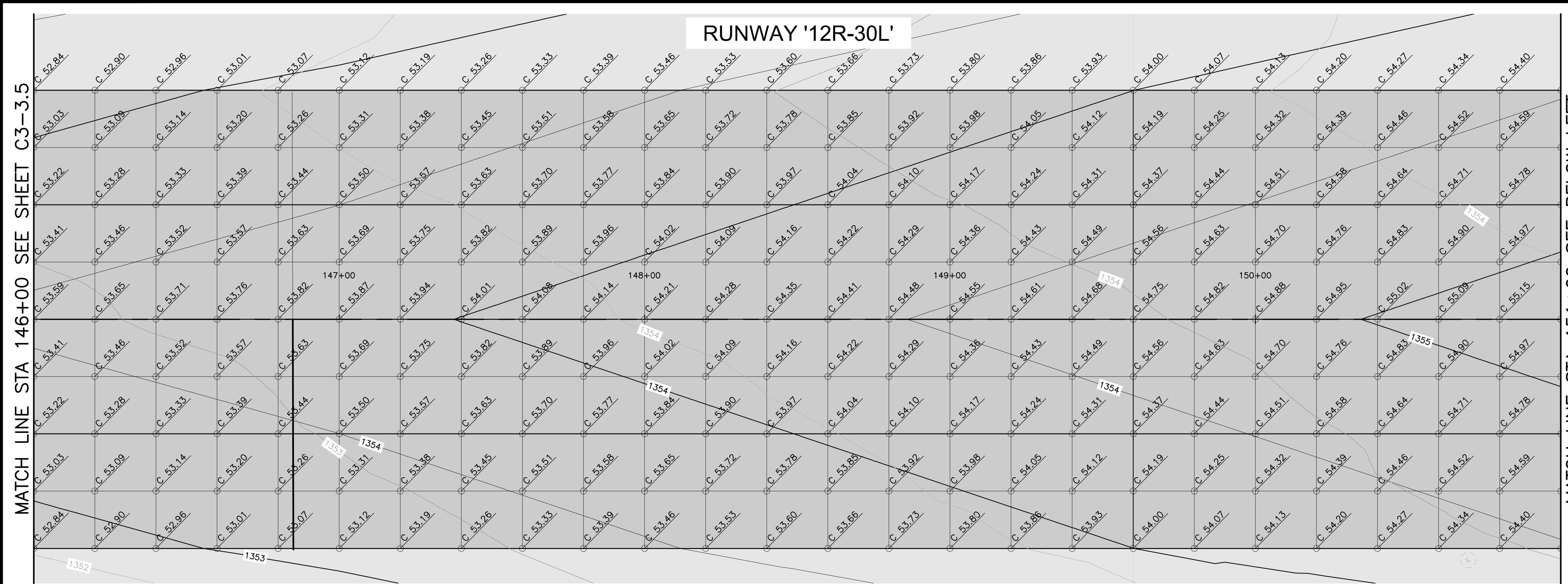


DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 2003_2303-C3-3_X-ELEV_A02

REV	DATE	DESCRIPTION



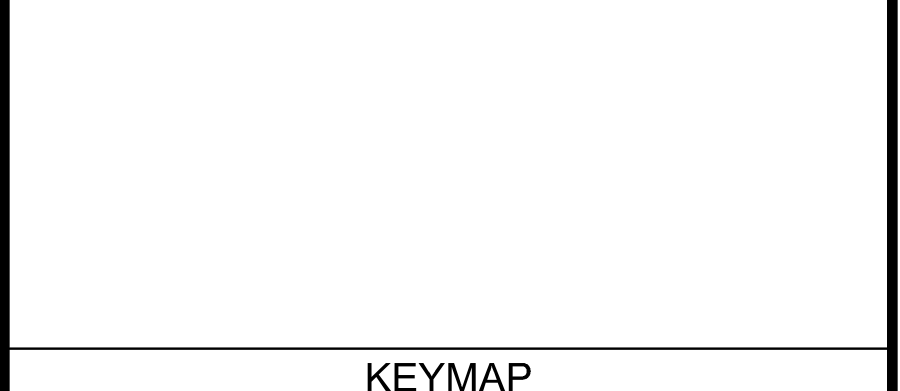
FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD-ADD-ALT-2\20023.2303-C3-3-X-ELEV_A02.dwg DATE: April 26, 2023 TIME: 12:38 PM BY: travis.woodman



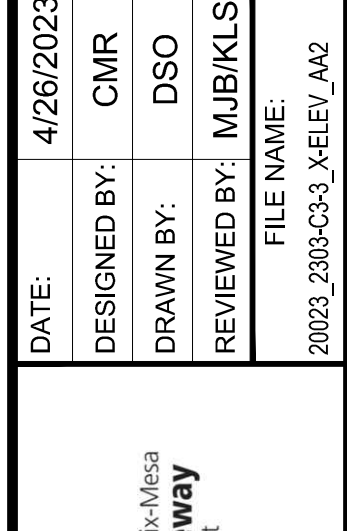
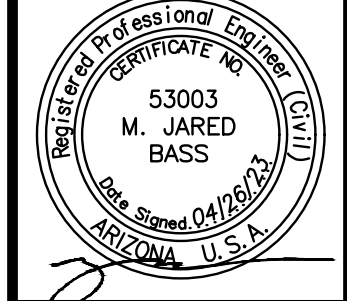
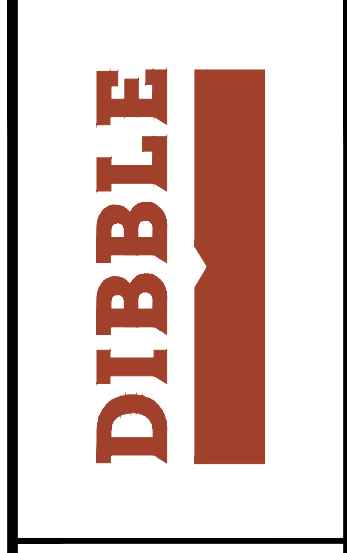
DATE: 4/26/2023	
DESIGNED BY: CMR	DSO
DRAWN BY: MJB/KLS	REVIEWED BY: MJB/KLS
FILE NAME: 2002_2303-C3-3-X-ELEV_A02	

LEGEND

	PROPOSED SPOT ELEV (+1300)
	EXISTING SPOT ELEV (+1300)



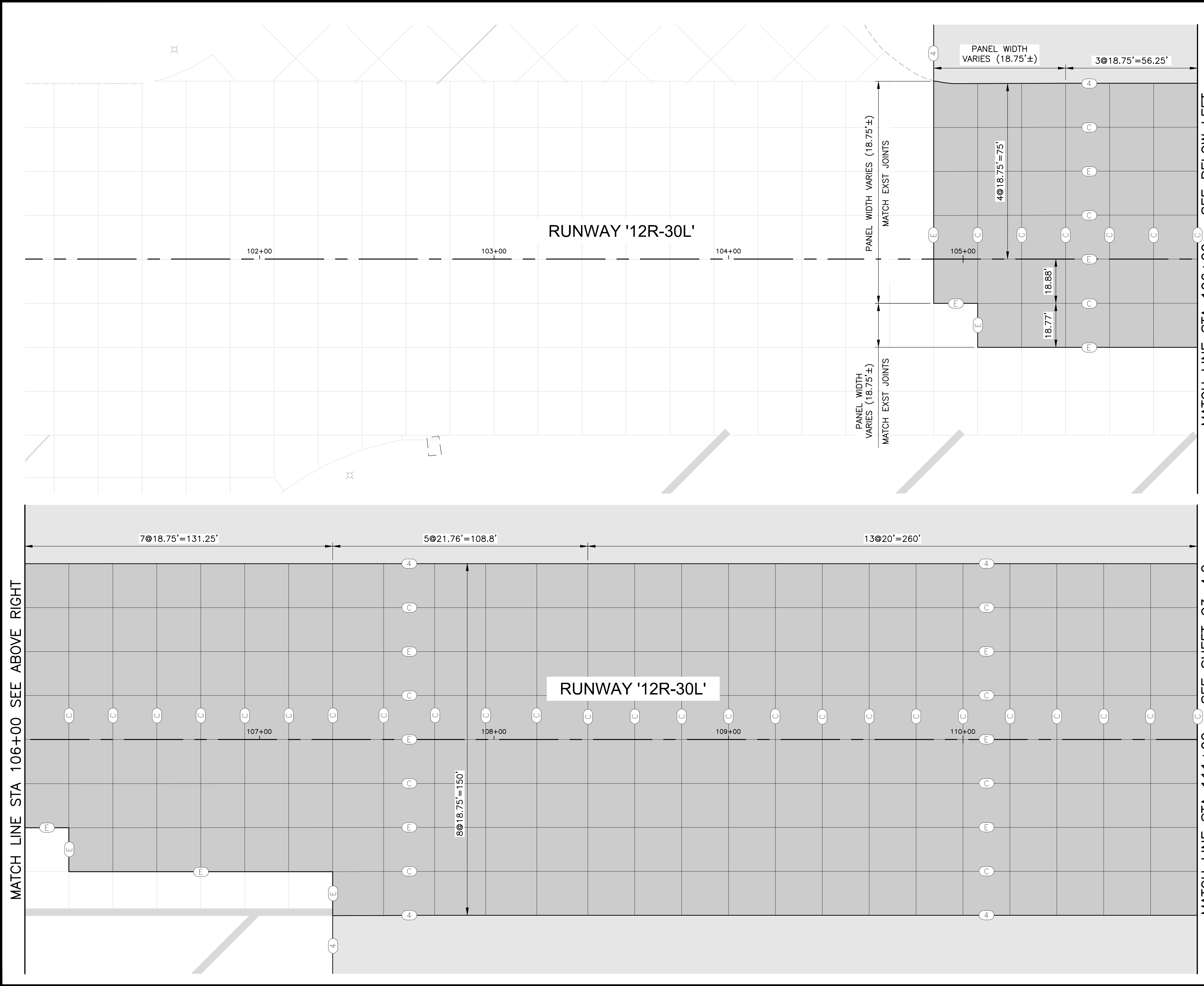
REV	DATE	DESCRIPTION



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT ELEVATION PLAN
STA 146+00 TO STA 156+00**



FILE: \\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-4_X-JNTS_AA2.dwg DATE: April 26, 2023 TIME: 12:39 PM BY: travis_woodman



SCALE: 1"=20'

LEGEND

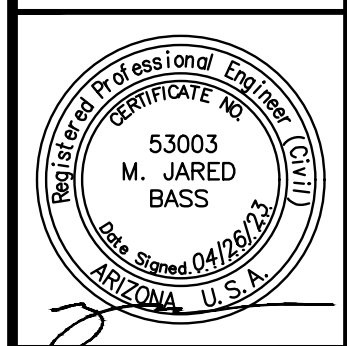
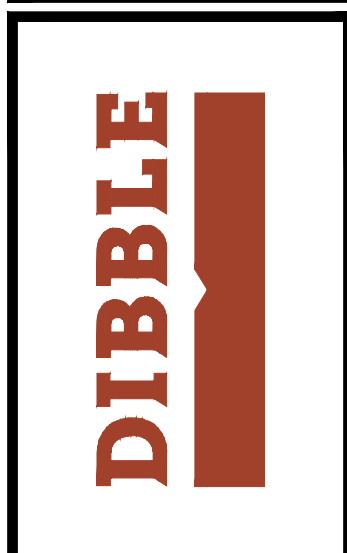
- RUNWAY PCCP
SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER
PAVEMENT
SECT 2, SHT G1-3.1
- JOINT TYPE
REFER TO PCCP JOINT
DETAILS, SHT C1-4.4

JOINT NOTES

1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.

KEYMAP

REV	DATE	DESCRIPTION



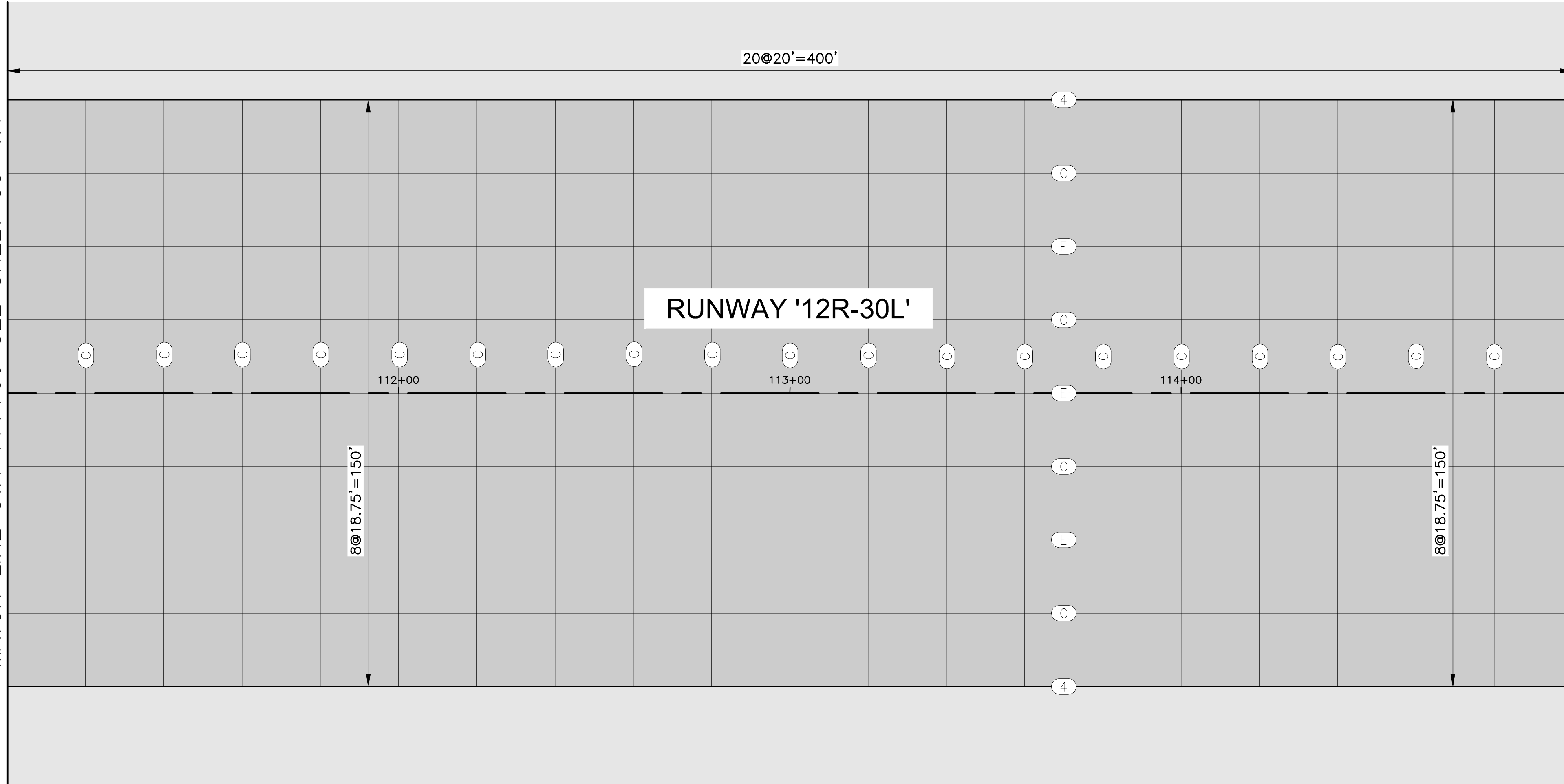
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C3-4_X-JNTS_AA2



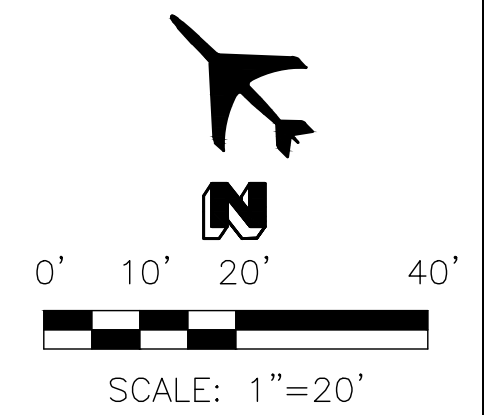
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) JOINT LAYOUT PLAN
STA 101+00 TO STA 111+00**

FILE:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023_2303-C3-4_X-JNTS_AA2.dwg DATE: April 26, 2023 TIME: 12:39 PM BY: travis.woodman

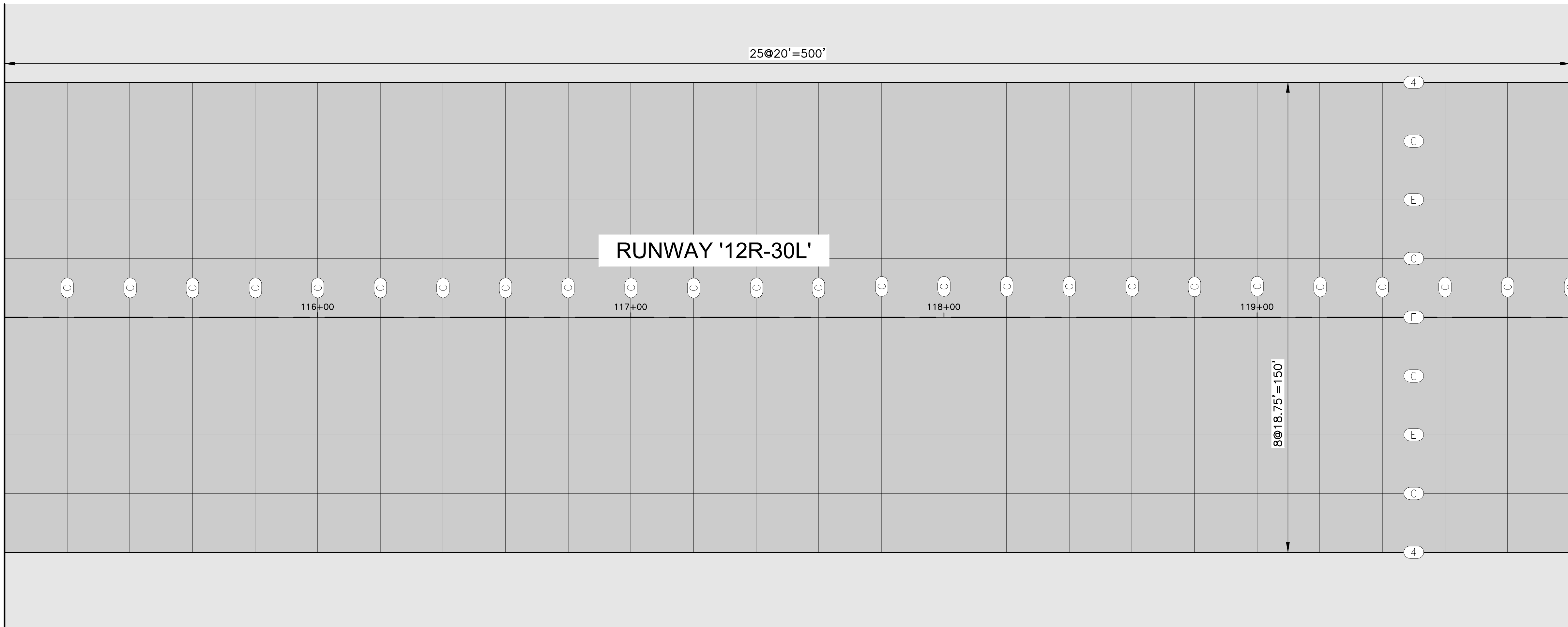
MATCH LINE STA 111+00 SEE SHEET C3-4.1



MATCH LINE STA 115+00 SEE BELOW LEFT



MATCH LINE STA 115+00 SEE ABOVE RIGHT

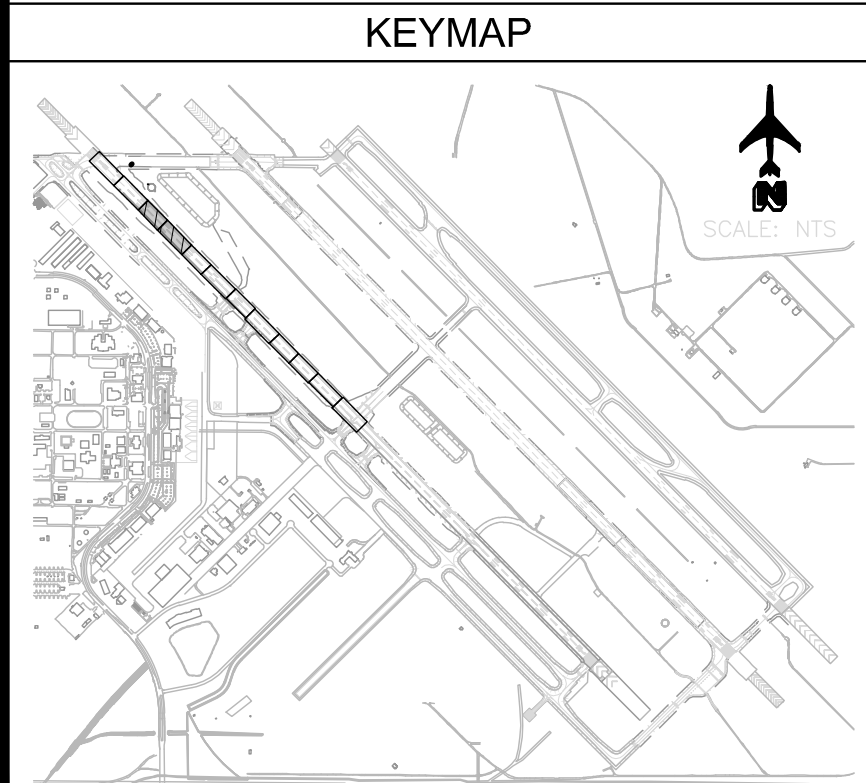


MATCH LINE STA 120+00 SEE SHEET C3-4.3

LEGEND

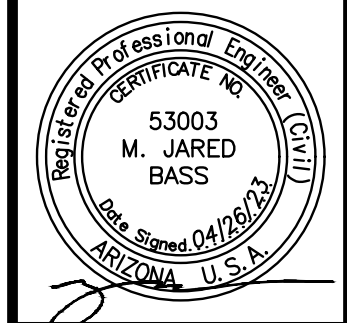
	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4

- JOINT NOTES**
- USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
 - USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) JOINT LAYOUT PLAN
STA 111+00 TO STA 120+00**

C3-4.2
SHEET NO.
131 OF 211



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 2003_2303-C3-4_X-JNTS_AA2

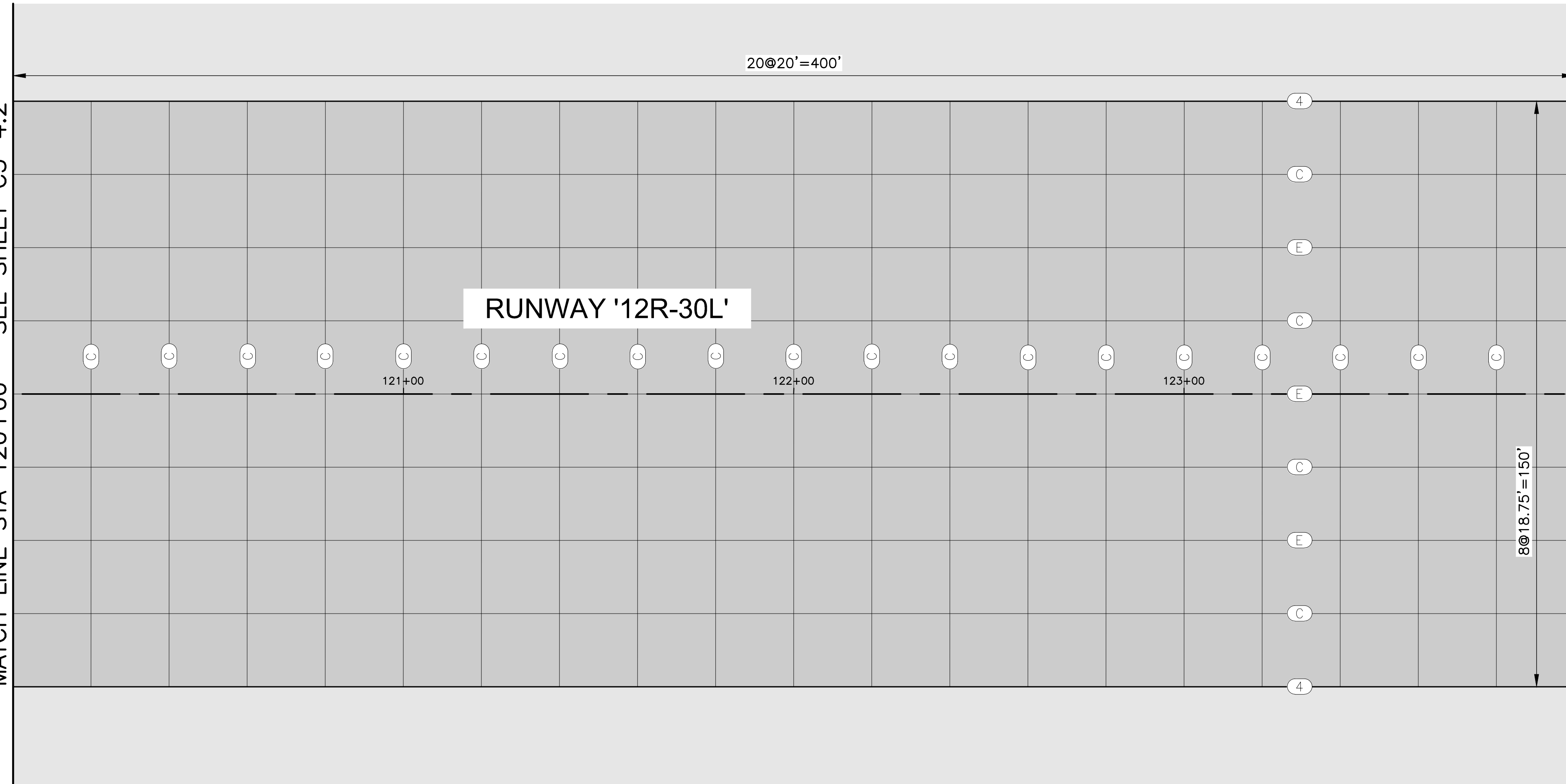


REV	DATE	DESCRIPTION

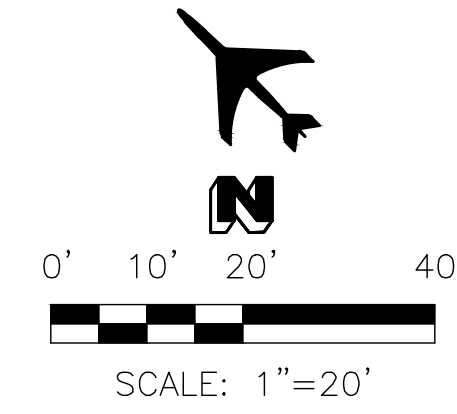


FILE: \\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-2\20023-2303-C3-4_X-JNTS_AA2.dwg DATE: April 26, 2023 TIME: 12:39 PM BY: travis_woodman

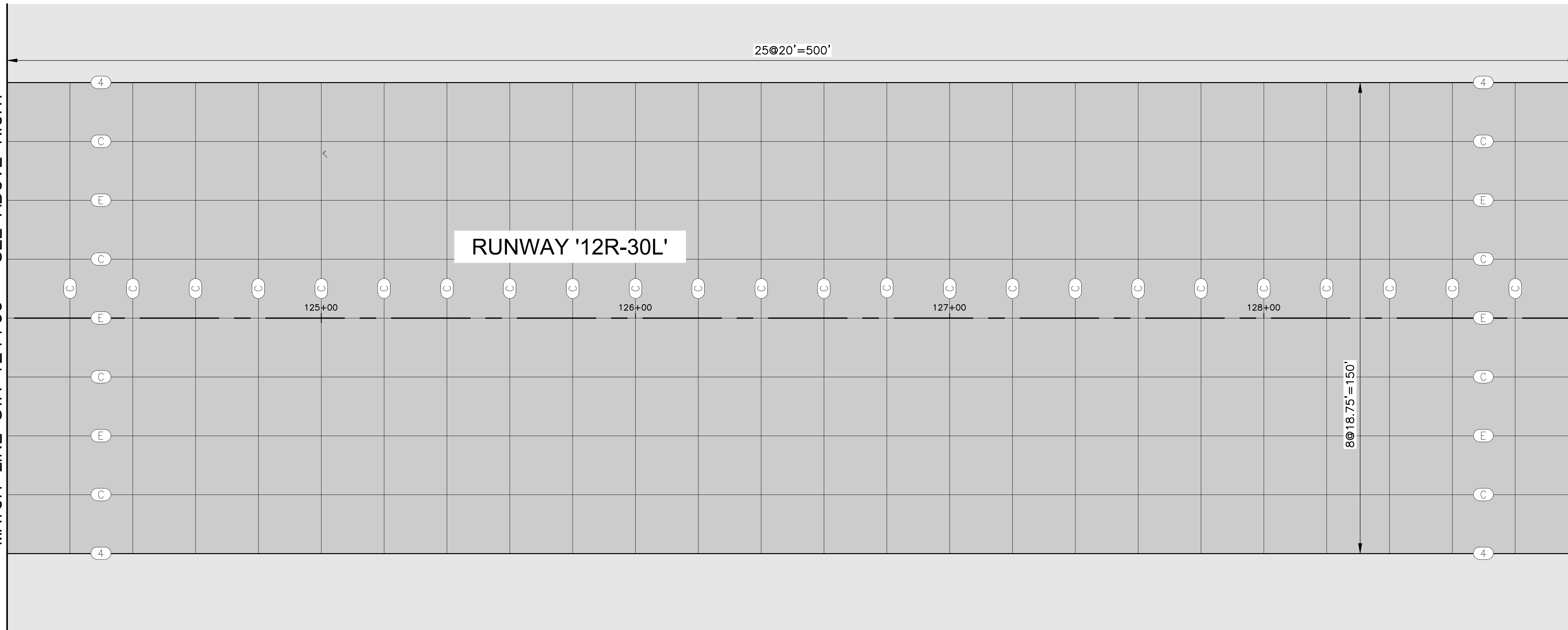
MATCH LINE STA 120+00 SEE SHEET C3-4.2



MATCH LINE STA 124+00 SEE BELOW LEFT



MATCH LINE STA 124+00 SEE ABOVE RIGHT



MATCH LINE STA 129+00 SEE SHEET C3-4.4

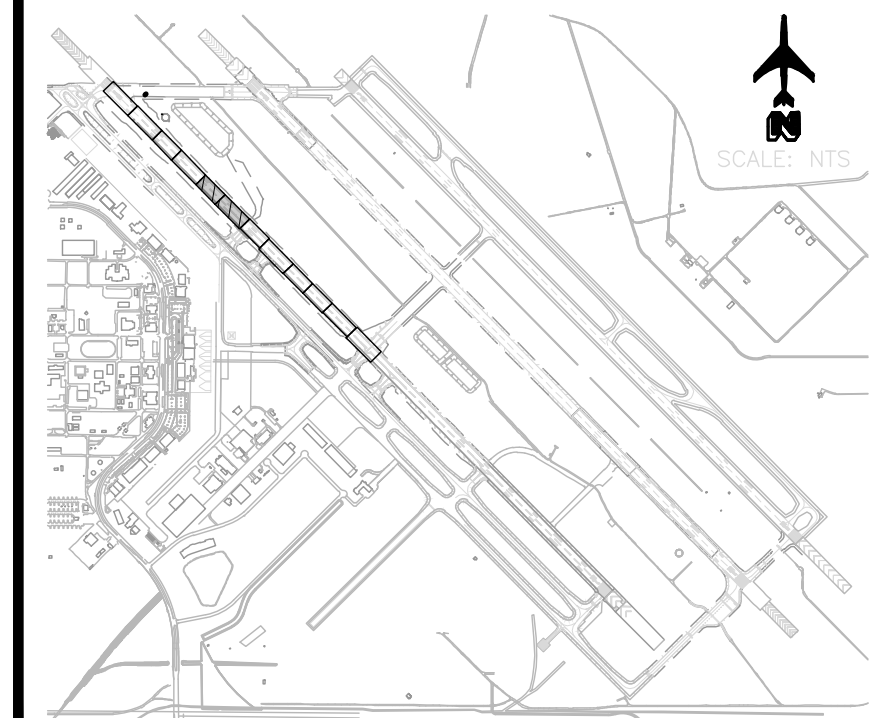
LEGEND

- RUNWAY PCCP
SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER
PAVEMENT
SECT 2, SHT G1-3.1
- JOINT TYPE
REFER TO PCCP JOINT
DETAILS, SHT C1-4.4

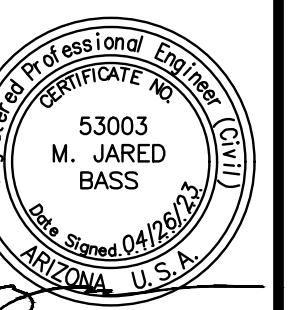
JOINT NOTES

1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.

KEYMAP



REV	DATE	DESCRIPTION



DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 20023_2303-C3-4_X-JNTS_AA2

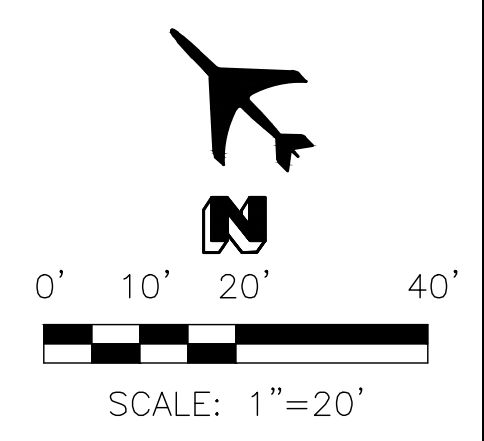
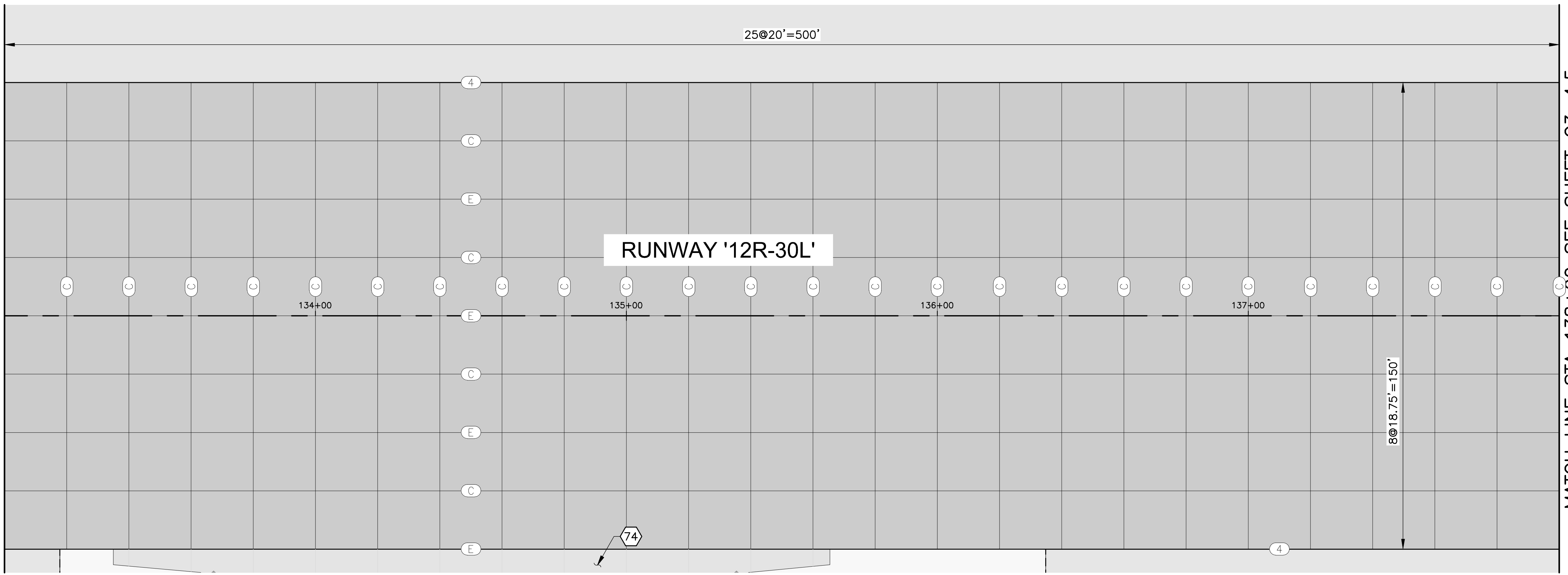
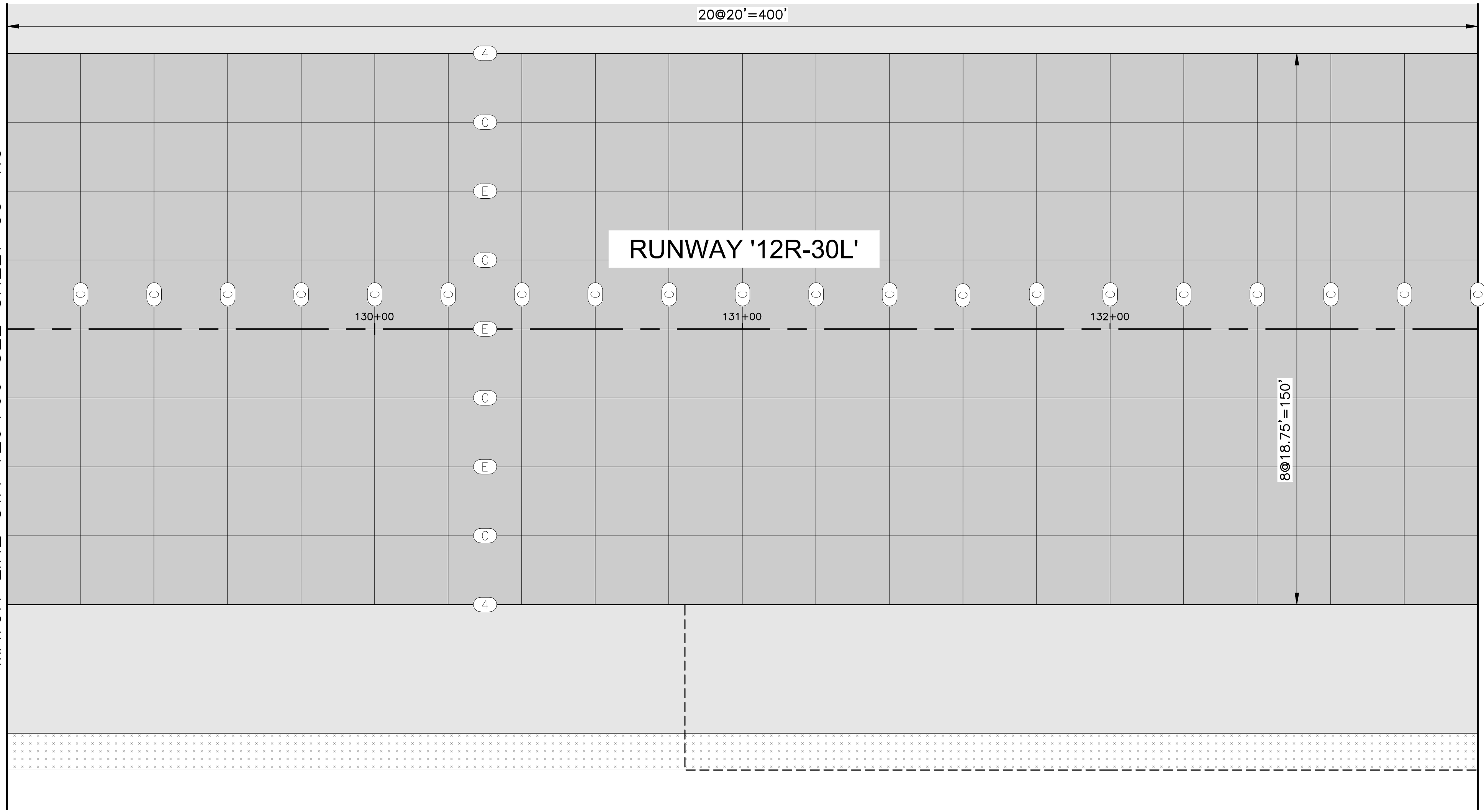


**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) JOINT LAYOUT PLAN
 STA 120+00 TO STA 129+00**

FILE:\2020\1020023.2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD\ADD-ALT-2\20023-2303-C3-4-X-JNTS_AA2.dwg DATE: April 26, 2023 TIME: 12:40 PM BY: travis.woodman

MATCH LINE STA 129+00 SEE SHEET C3-4.3

MATCH LINE STA 133+00 SEE ABOVE RIGHT

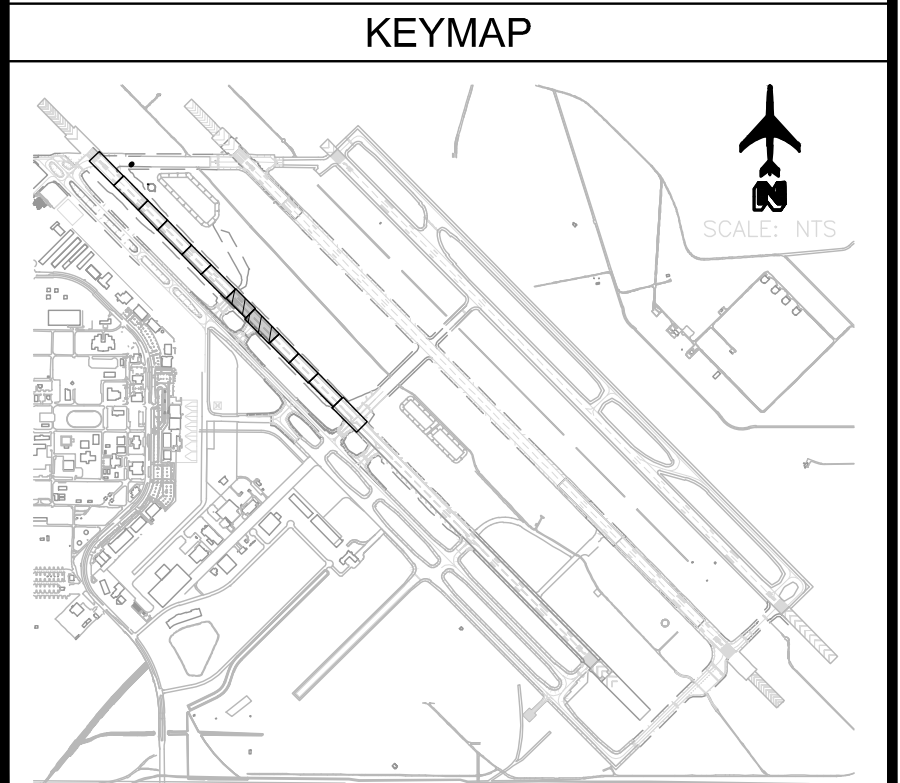


REFERENCE NOTES
 74 REFER TO SCHEDULE IV JOINT LAYOUT PLAN SHT C4-7.1

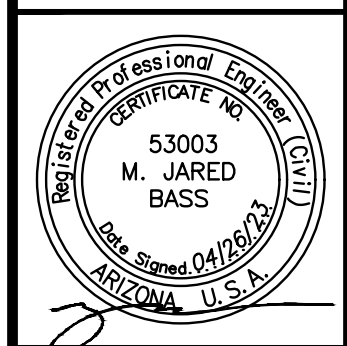
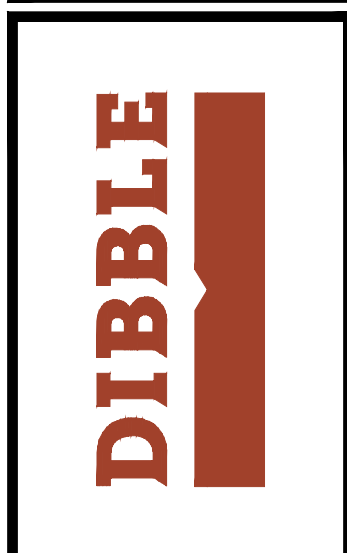
LEGEND

 RUNWAY PCCP
 SECT 1, SHT G1-3.1
 RUNWAY AC SHOULDER
 PAVEMENT
 SECT 2, SHT G1-3.1
 JOINT TYPE
 REFER TO PCCP JOINT
 DETAILS, SHT C1-4.4

JOINT NOTES
 1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
 2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.



REV	DATE	DESCRIPTION



DATE: 4/26/2023
 DESIGNED BY: CMR
 DRAWN BY: DSO
 REVIEWED BY: MJB/KLS
 FILE NAME: 20023_2303-C3-4_X-JNTS_AA2



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) JOINT LAYOUT PLAN
 STA 129+00 TO STA 138+00**

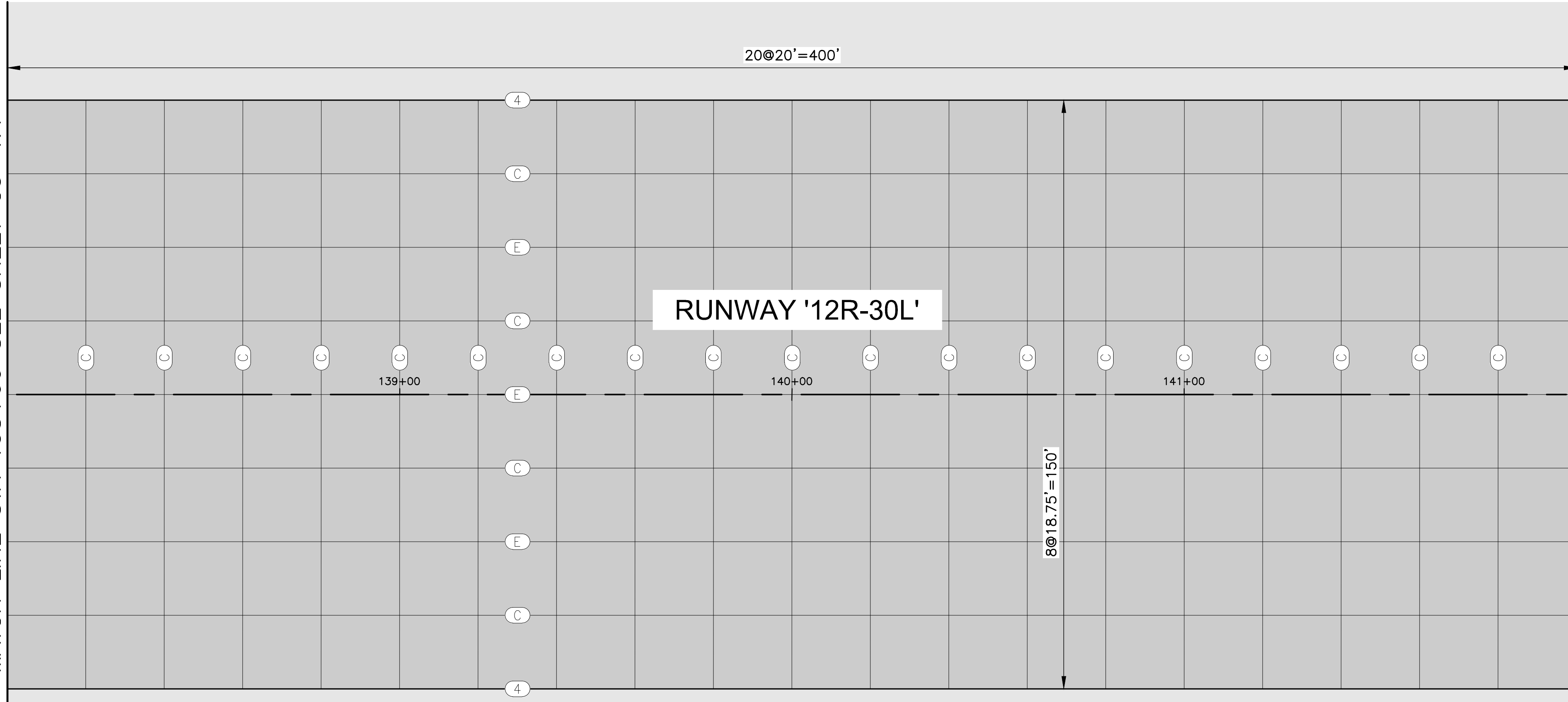
C3-4.4
 SHEET NO.
133 OF 211



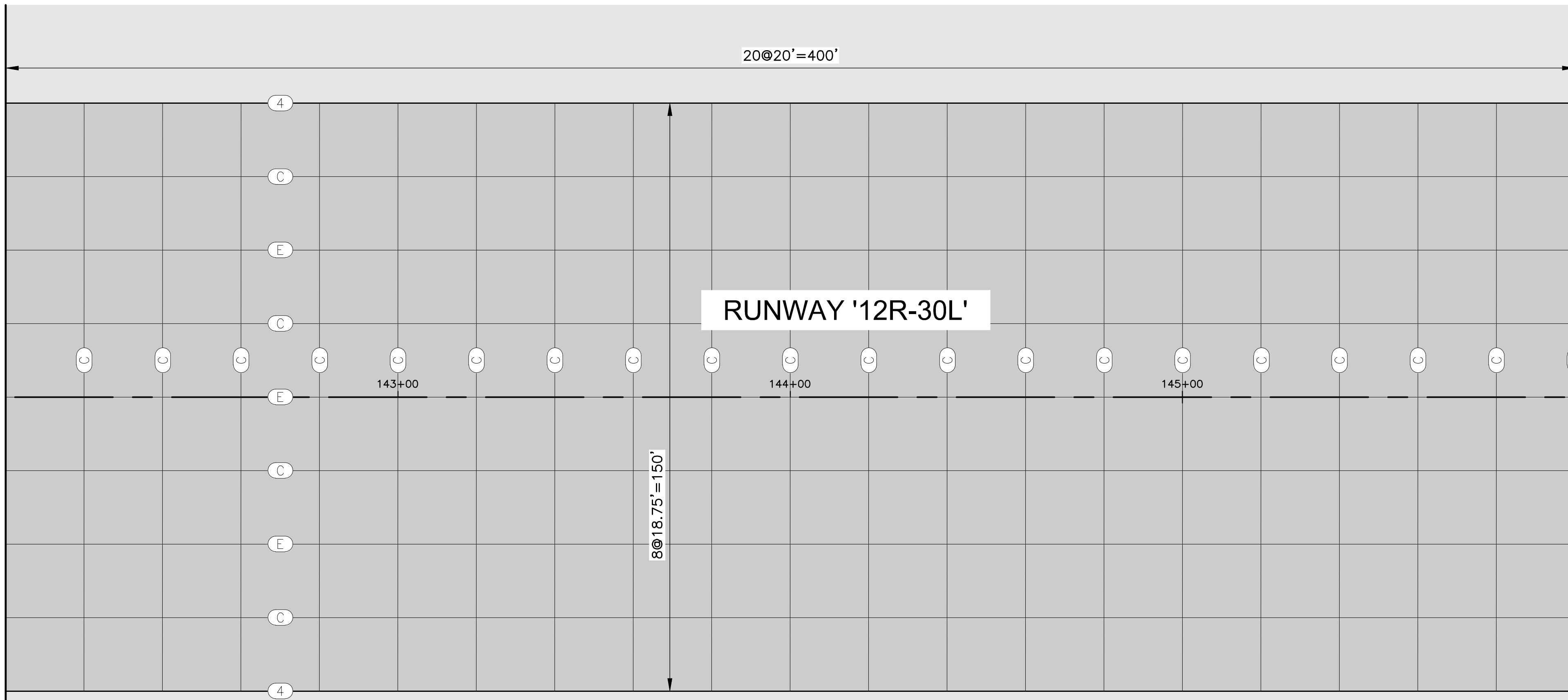
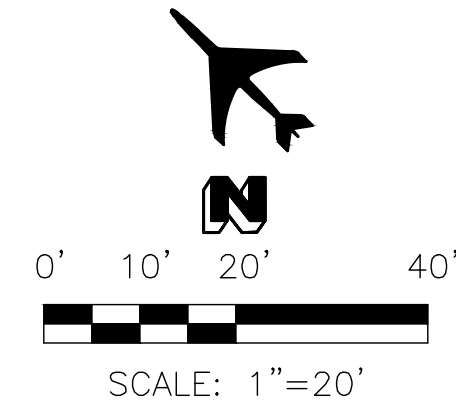
FILE:\2020\1020023.2303 PWGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-4_X-JNTS_AA2.dwg DATE: April 26, 2023 TIME: 12:40 PM BY: travis_woodman

MATCH LINE STA 138+00 SEE SHEET C3-4.4

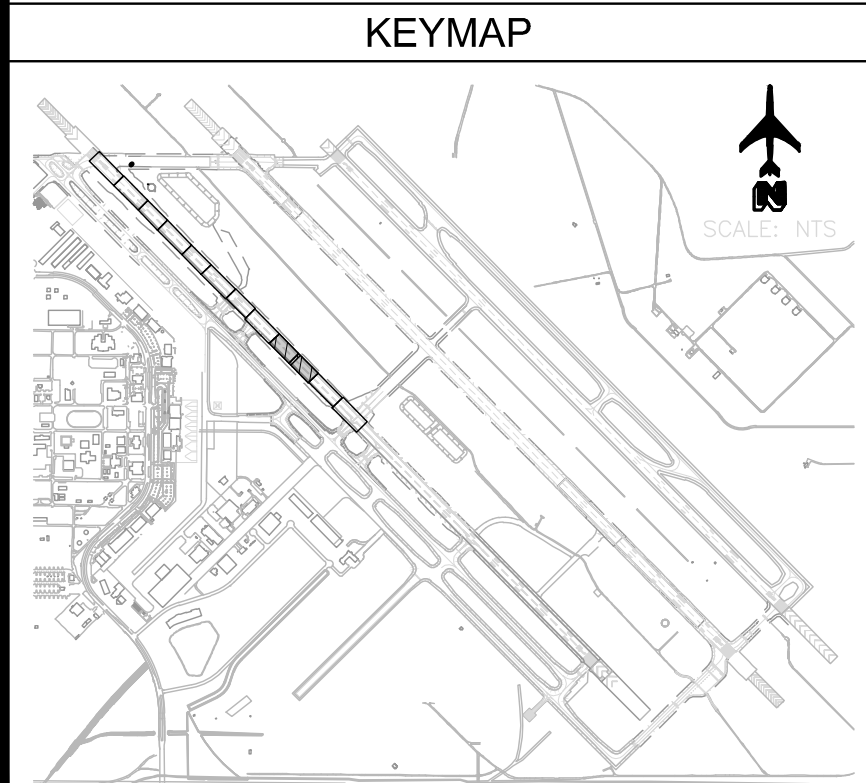
MATCH LINE STA 142+00 SEE ABOVE RIGHT



MATCH LINE STA 142+00 SEE BELOW LEFT



MATCH LINE STA 146+00 SEE SHEET C3-4.6



KEYMAP

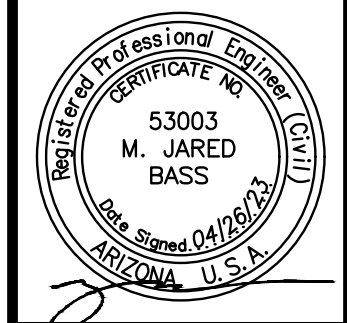
LEGEND

	RUNWAY PCCP SECT 1, SHT G1-3.1
	RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
	JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.4

- JOINT NOTES**
- USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.4) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
 - USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.4) AROUND ALL PENETRATIONS IN PCCP.

**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) JOINT LAYOUT PLAN
STA 138+00 TO STA 146+00**

C3-4.5
SHEET NO.
134 OF 211



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 2003_2303-C3-4_X-JNTS_AA2



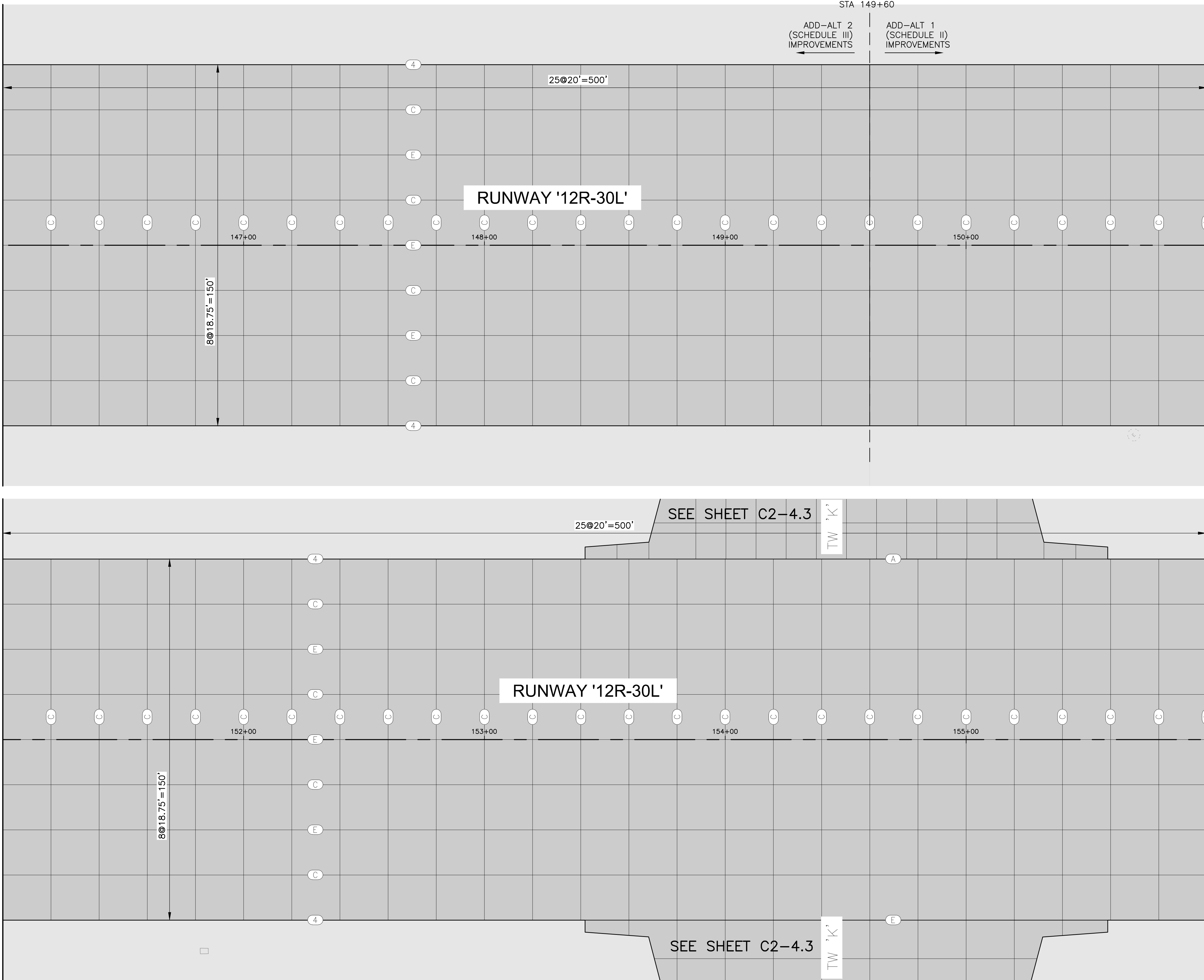
REV	DATE	DESCRIPTION



FILE: \\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD\ADD-ALT-2\20023_2303-C3-4_X-JNTS_AA2.dwg DATE: April 26, 2023 TIME: 12:41 PM BY: travis_woodman

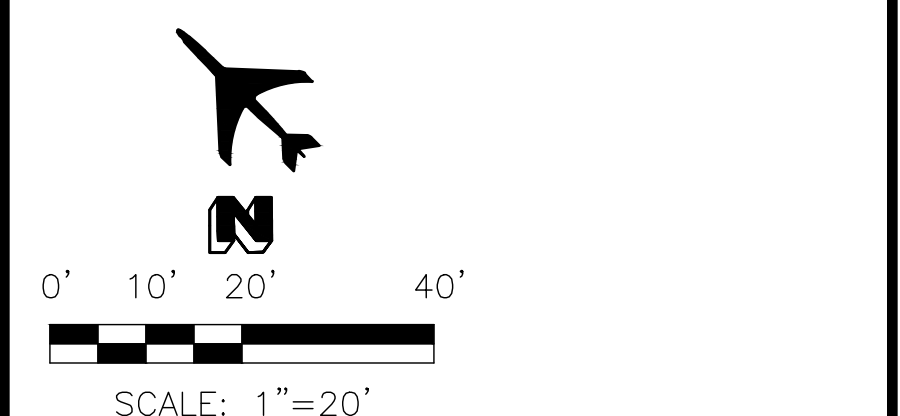
MATCH LINE STA 146+00 SEE SHEET C3-4.5

MATCH LINE STA 151+00 SEE SHEET C3-4.5



MATCH LINE STA 151+00 SEE BELOW LEFT

MATCH LINE STA 156+00 SEE SHEET C2-4.2



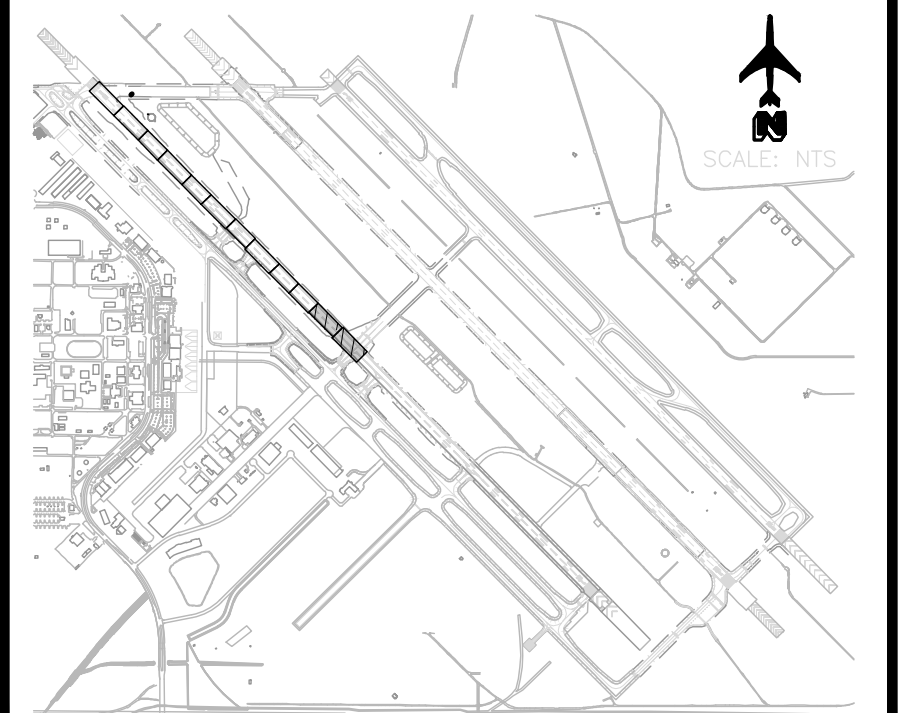
LEGEND

- EXST PCCP
- EXST AC PAVEMENT
- RUNWAY PCCP SECT 1, SHT G1-3.1
- RUNWAY AC SHOULDER PAVEMENT SECT 2, SHT G1-3.1
- JOINT TYPE REFER TO PCCP JOINT DETAILS, SHT C1-4.6

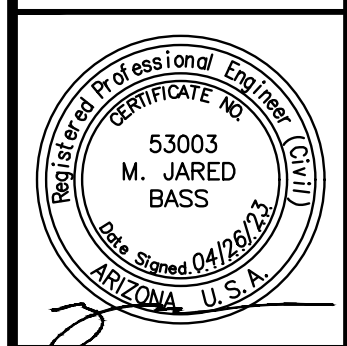
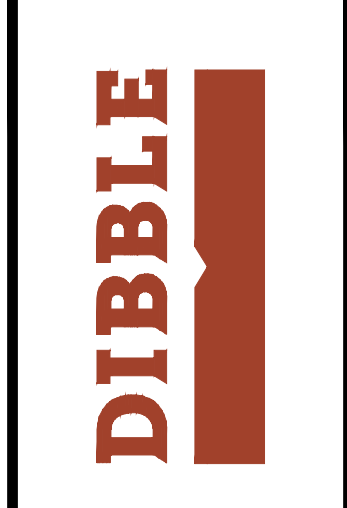
JOINT NOTES

1. USE AN EDGE SEAL JOINT (DET 4, SHT C1-4.6) AROUND CONCRETE STRUCTURES IN ASPHALT PAVEMENT.
2. USE EXPANSION JOINT SEAL (DET 1, SHT C1-4.6) AROUND ALL PENETRATIONS IN PCCP.

KEYMAP



REV	DATE	DESCRIPTION



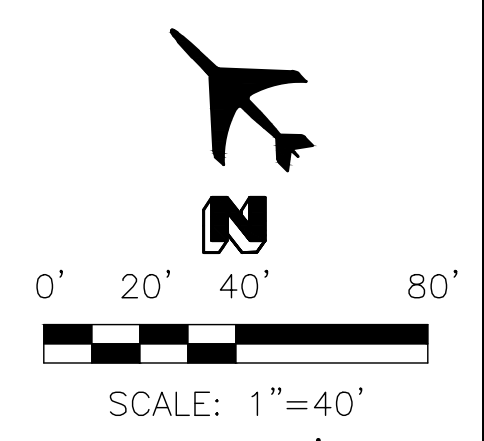
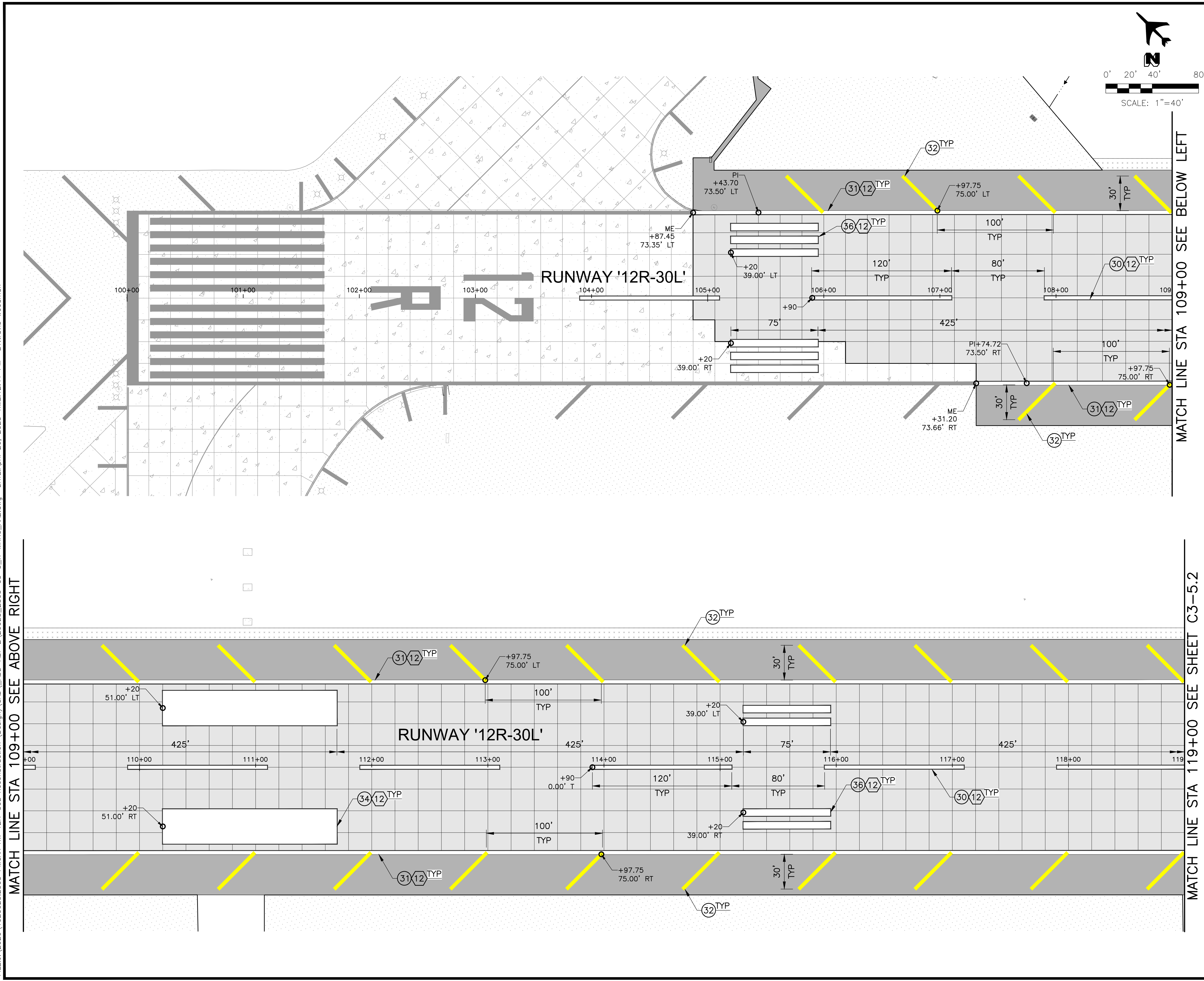
DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	2003_2303-C3-4_X-JNTS_AA2



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) JOINT LAYOUT PLAN
STA 146+00 TO STA 156+00**

C3-4.6
SHEET NO.
135 OF 211

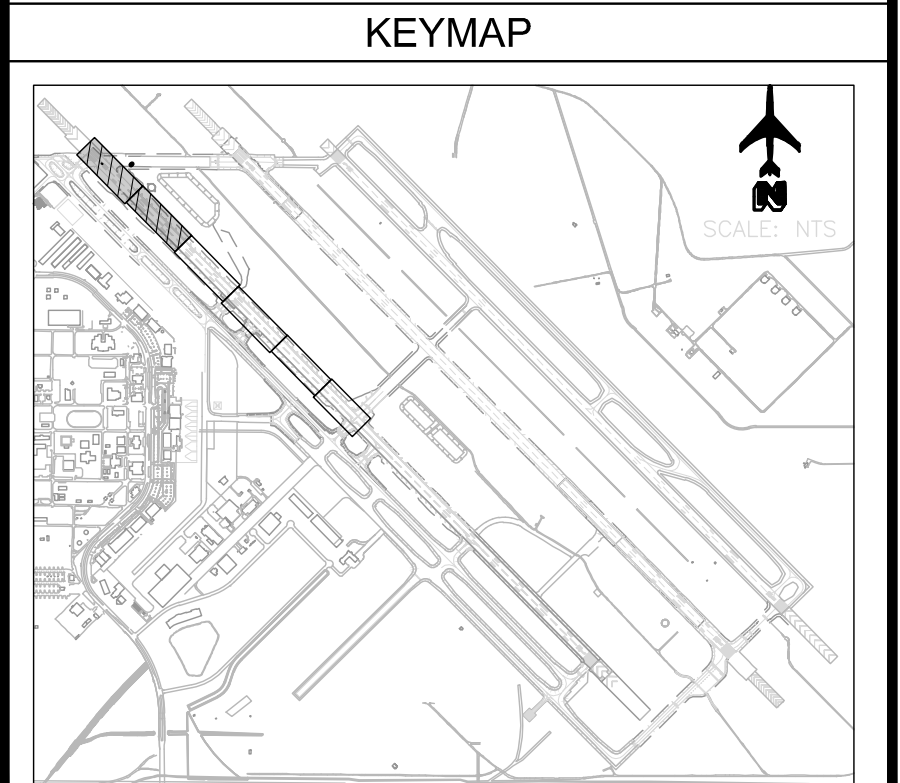
FILE:u:\2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023-2303-C3-5-X-MRKG_A02.dwg DATE:April 26, 2023 TIME:12:41 PM BY:travis woodman



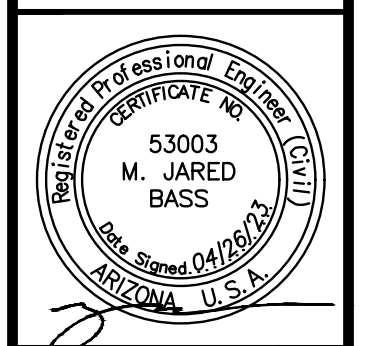
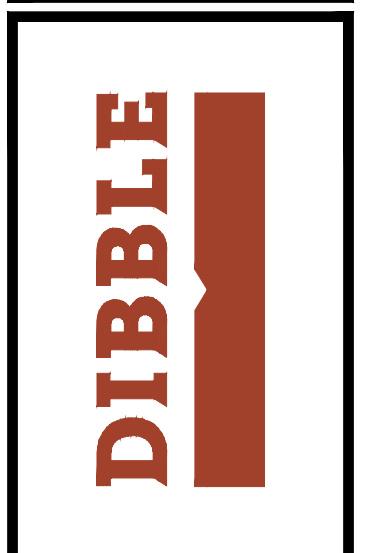
CONST NOTES (ADD ALT 2 - SCH III)	
30 RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	8 EA
31 RUNWAY EDGE MARKING DET 2, SHT C1-5.3	2,582 LF
32 RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	26 EA
34 RUNWAY AIMING POINT MARKING DET 3, SHT C1-5.3	2 EA
36 RUNWAY TOUCHDOWN ZONE MARKINGS DET 5, SHT C1-5.3	10 EA

REFERENCE NOTES	
12 BLACK OUTLINE NOT INCLUDED IN DIMENSION	

- PAVEMENT MARKING NOTES**
- ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.
 - ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.
 - ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE IS NO SEPARATE MEASUREMENT FOR BLACK PAINT, (FOR SCH I-III ONLY).



REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C3-5_X-MRKG_A02

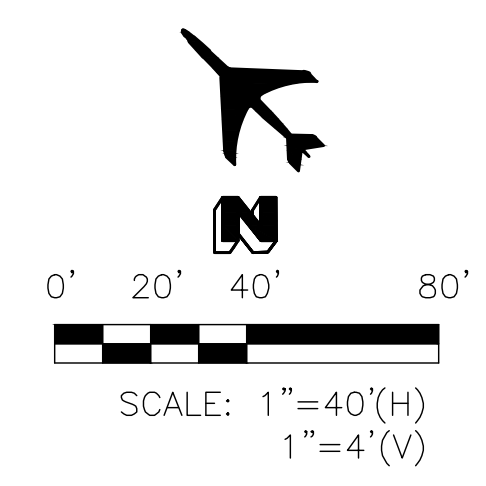
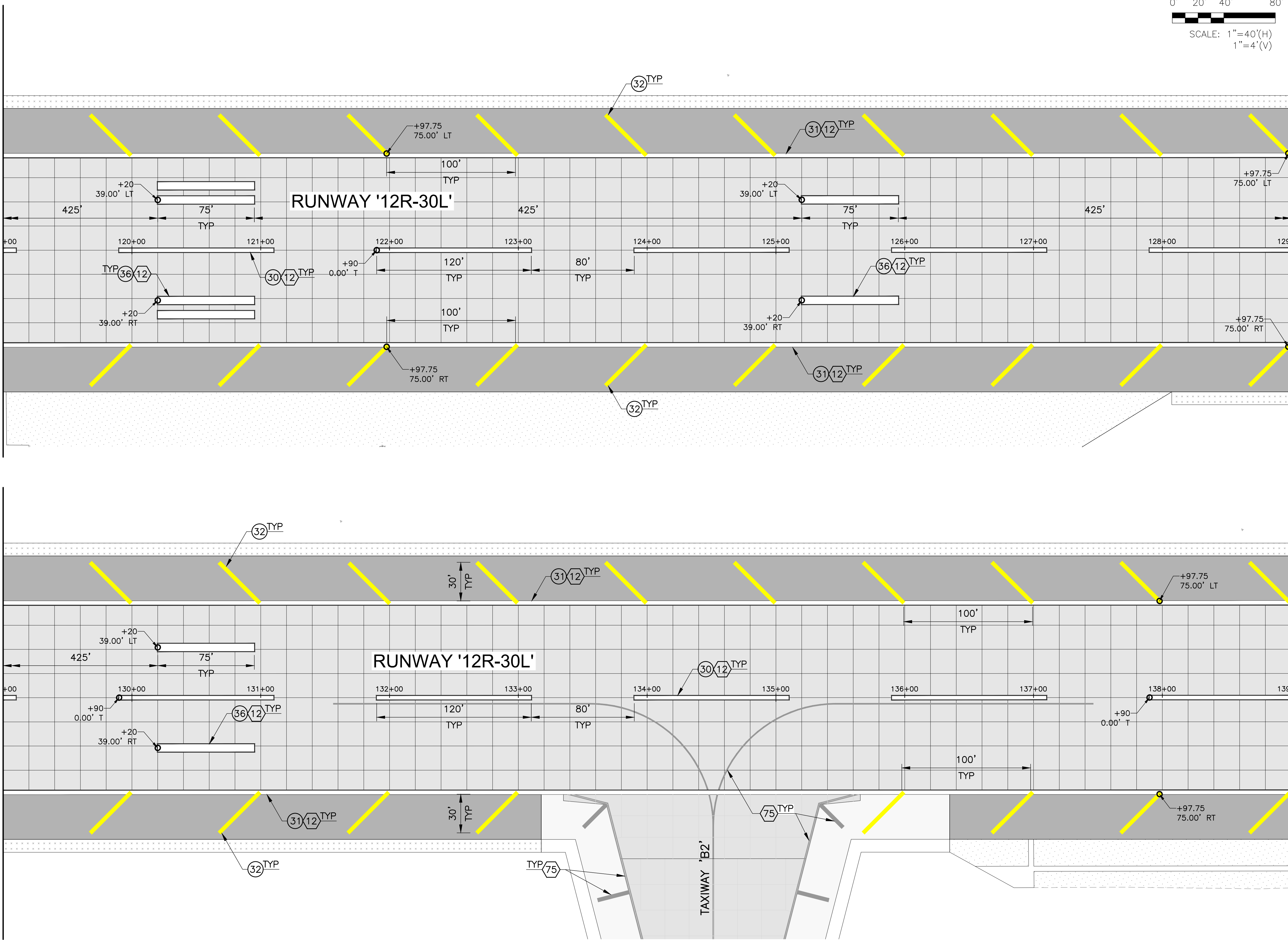


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT MARKING PLAN
STA 100+00 TO STA 119+00**

FILE: 2020\1020023.2303 PMGAA RW 12R-30L Reconstruction (Design)\CAD_ADD-ALT-2\20023-2303-C3-5-X-MRKG_A42.dwg DATE: April 26, 2023 TIME: 12:42 PM BY: btravis woodman

MATCH LINE STA 119+00 SEE SHEET C3-5.1

MATCH LINE STA 129+00 SEE ABOVE RIGHT



MATCH LINE STA 129+00 SEE BELOW LEFT

MATCH LINE STA 139+00 SEE SHEET C3-5.3

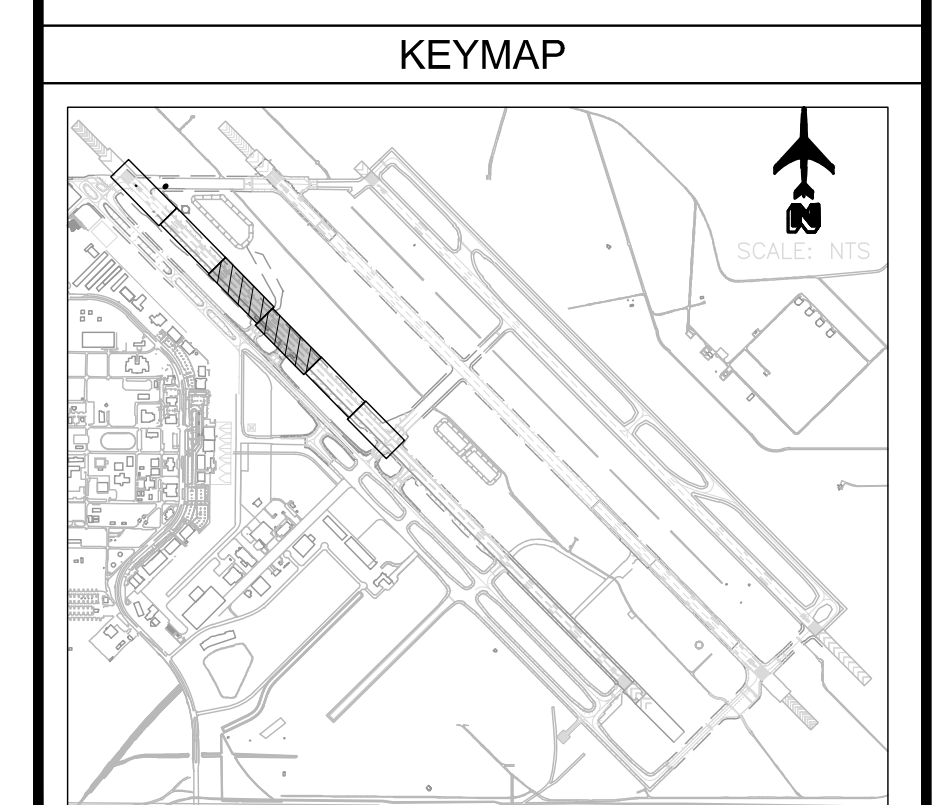
CONST NOTES (ADD ALT 2 - SCH III)

30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	10 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	4,000 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	38 EA
36	RUNWAY TOUCHDOWN ZONE MARKINGS DET 5, SHT C1-5.3	8 EA

REFERENCE NOTES

12	BLACK OUTLINE NOT INCLUDED IN DIMENSION
75	REFER TO SCHEDULE IV PAVEMENT MARKING PLAN SHTS C4-9.1 TO C4-9.2

- PAVEMENT MARKING NOTES
- ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.
 - ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.
 - ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE IS NO SEPARATE MEASUREMENT FOR BLACK PAINT, (FOR SCH I-III ONLY).



REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer
M. JARED BASS
No. 53003
Arizona, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C3-5_X-MRKG_A42

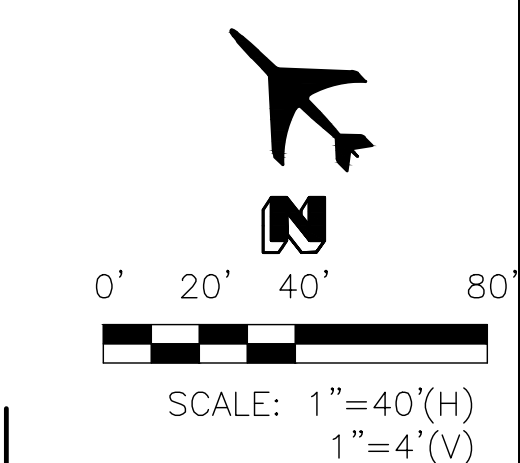
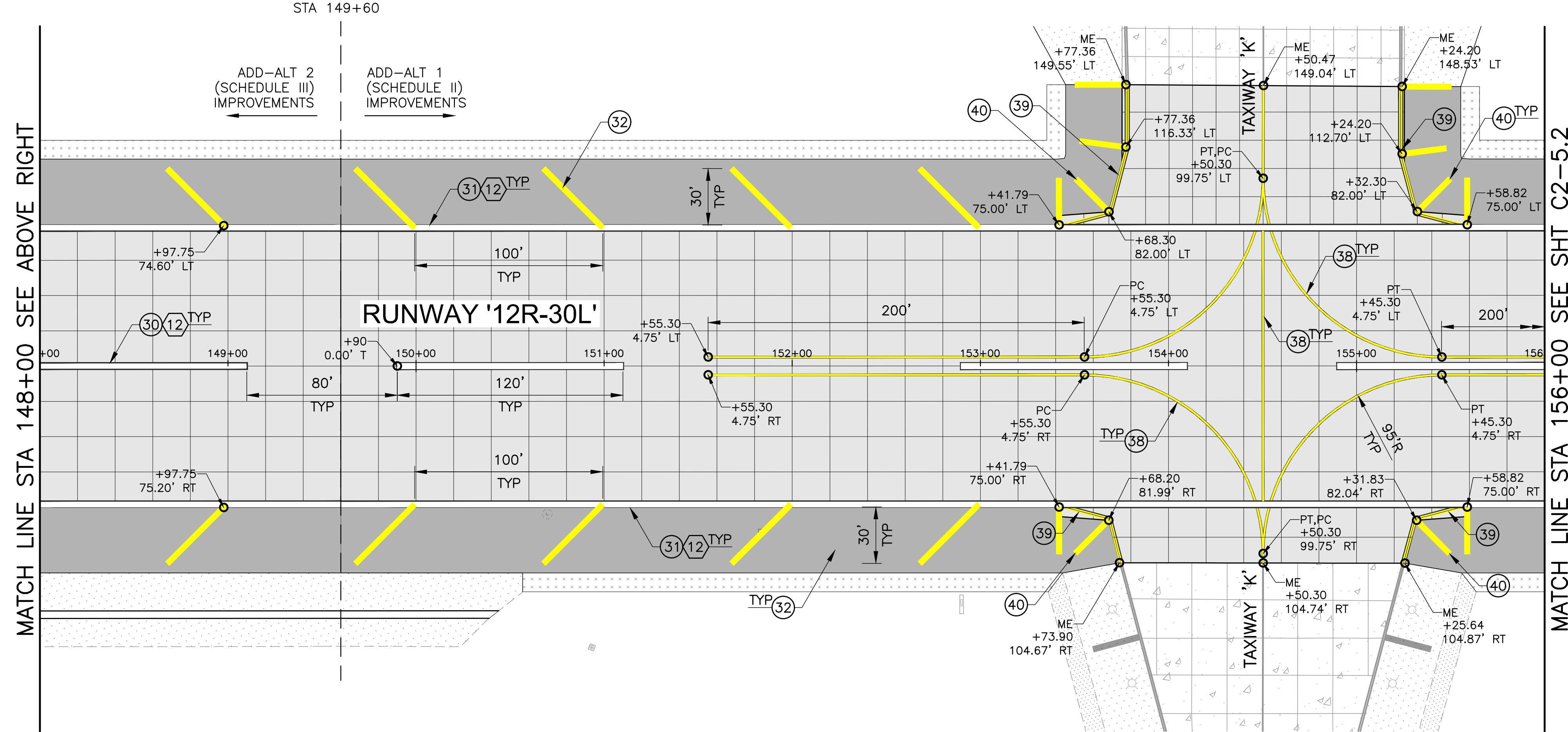
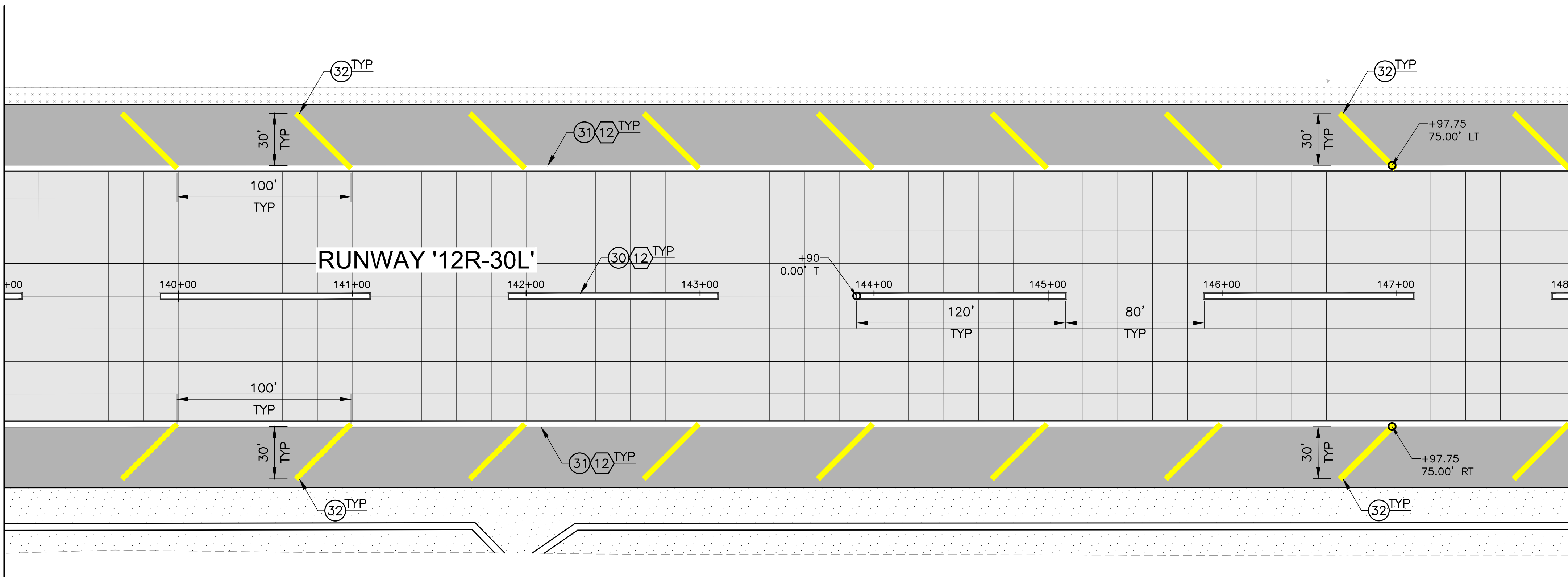


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT MARKING PLAN
STA 119+00 TO STA 139+00**

FILE:\2020\1020023.2303_PMGAA_RW_12R-30L_Reconstruction (Design)\CAD_ADD-ALT-2\20023_2303-C3-5_X-MRKG_AA2.dwg DATE: April 26, 2023 TIME: 12:42 PM BY: trowis woodman

MATCH LINE STA 139+00 SEE SHEET C3-5.2

MATCH LINE STA 148+00 SEE ABOVE RIGHT

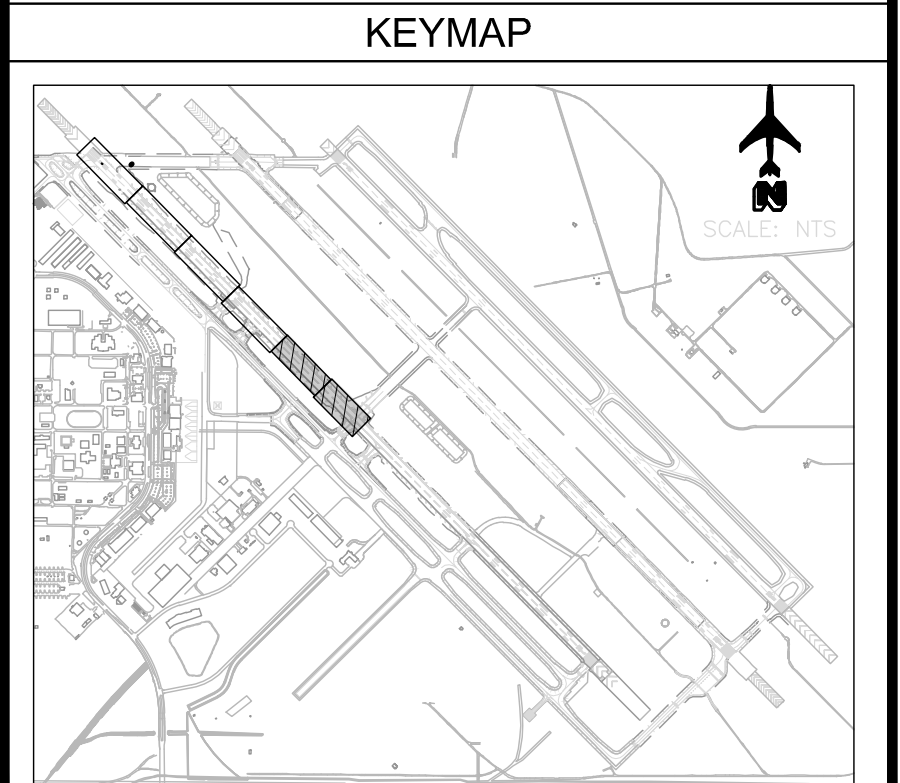


CONST NOTES (ADD ALT 1 - SCH II)		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	3 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	1,280 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	8 EA
38	TAXIWAY CENTERLINE MARKING DET 1, SHT C1-5.4	1,290 LF
39	TAXIWAY EDGE MARKING DET 2, SHT C1-5.4	294 LF
40	TAXIWAY SHOULDER MARKING DET 3, SHT C1-5.4	12 EA

CONST NOTES (ADD ALT 2 - SCH III)		
30	RUNWAY CENTERLINE MARKING DET 1, SHT C1-5.3	5 EA
31	RUNWAY EDGE MARKING DET 2, SHT C1-5.3	2,120 LF
32	RUNWAY SHOULDER MARKING DET 4, SHT C1-5.3	20 EA

REFERENCE NOTES	
12	BLACK OUTLINE NOT INCLUDED IN DIMENSION

- PAVEMENT MARKING NOTES**
- ALL MARKINGS SHALL COMPLY WITH FAA ADVISORY CIRCULAR (AC) 150-5340-1M (MOST CURRENT VERSION). IF, IN THE OPINION OF THE AIRPORT, A CONFLICT EXISTS BETWEEN THE AC & THE PLANS, THE AC SHALL GOVERN.
 - ALL PERMANENT PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS.
 - ALL BLACK PAINT IS CONSIDERED INCIDENTAL TO THE PROJECT. THERE IS NO SEPARATE MEASUREMENT FOR BLACK PAINT, (FOR SCH I-III ONLY).



Call at least two full working days before you begin construction!

ARIZONA811
Arizona Statewide Utility Location Service

811 or 1-800-875-8282
in Maricopa County (602) 253-1100

REV	DATE	DESCRIPTION

DIBBLE

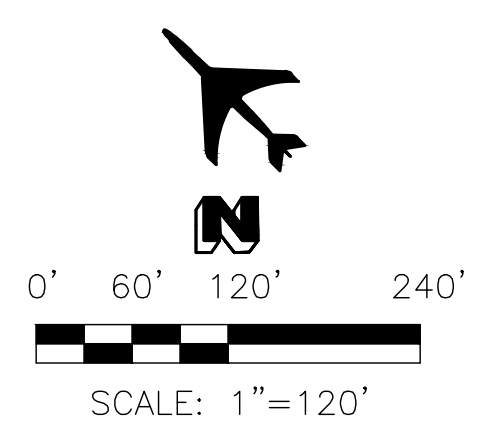
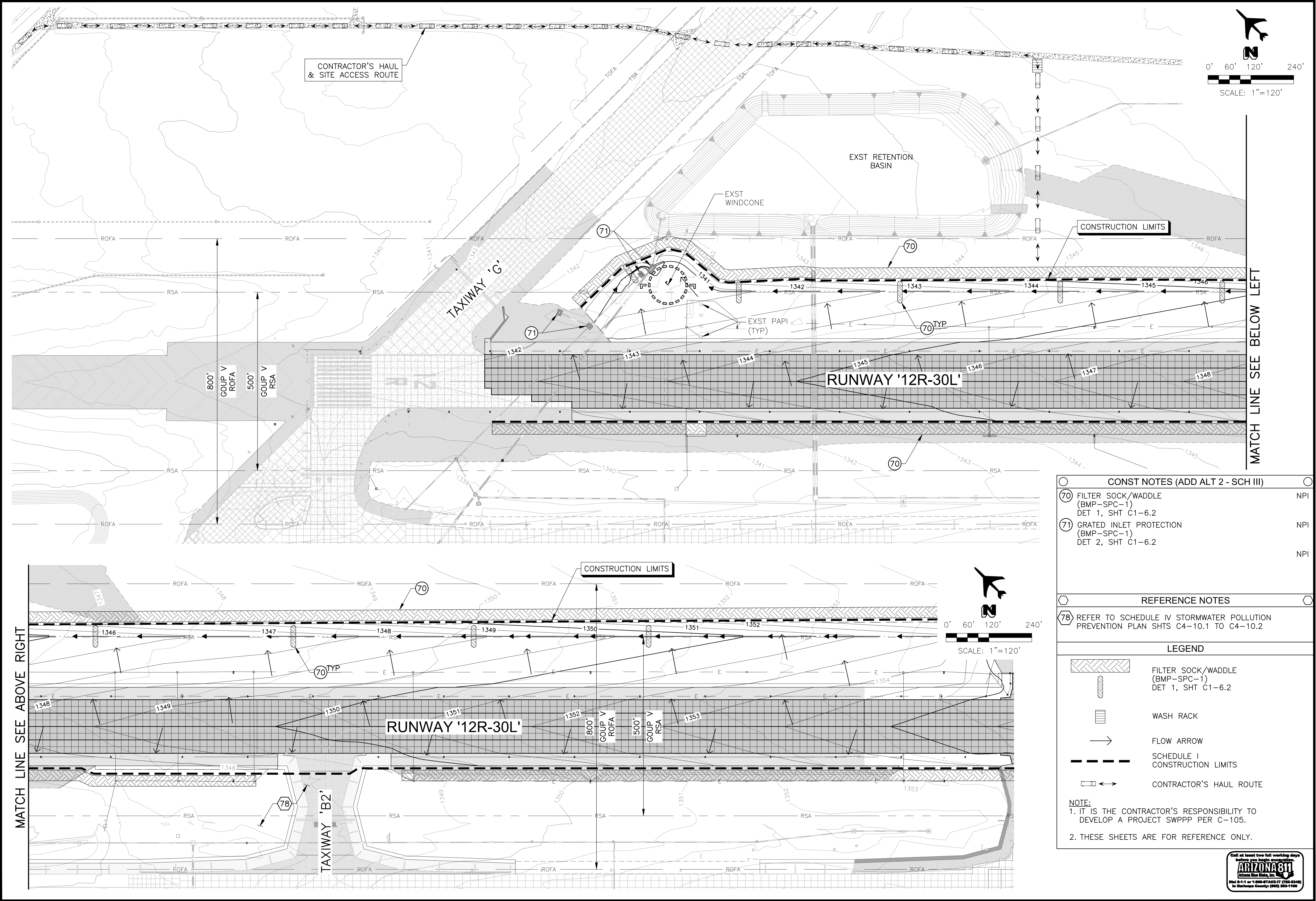
Professional Engineer
Certificate No. 53003
M. JARED BASS
Date Rec'd 04/26/23
Arizona, U.S.A.

DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C3-5_X-MRKG_AA2



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) PAVEMENT MARKING PLAN
STA 139+00 TO STA 156+00**

FILE:\2020\1020023.2303 PMGSA RW 12R-30L Reconstruction (Design)\CAD-ADD-ALT-2\20023-2303-C3-6_X-SWPP-AA2.dwg DATE: April 26, 2023 TIME: 12:43 PM BY: trowis woodman



CONST NOTES (ADD ALT 2 - SCH III)		
70	FILTER SOCK/WADDLE (BMP-SPC-1) DET 1, SHT C1-6.2	NPI
71	GRADED INLET PROTECTION (BMP-SPC-1) DET 2, SHT C1-6.2	NPI
		NPI

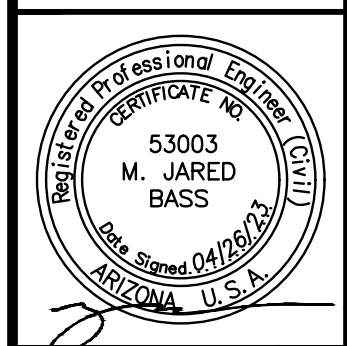
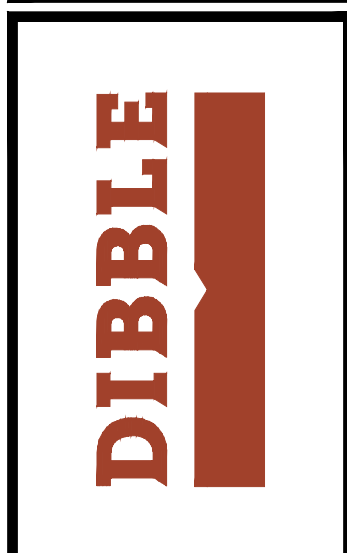
REFERENCE NOTES	
78	REFER TO SCHEDULE IV STORMWATER POLLUTION PREVENTION PLAN SHTS C4-10.1 TO C4-10.2

LEGEND	
	FILTER SOCK/WADDLE (BMP-SPC-1) DET 1, SHT C1-6.2
	WASH RACK
	FLOW ARROW
	SCHEDULE I CONSTRUCTION LIMITS
	CONTRACTOR'S HAUL ROUTE

NOTE:
 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A PROJECT SWPPP PER C-105.
 2. THESE SHEETS ARE FOR REFERENCE ONLY.



REV	DATE	DESCRIPTION

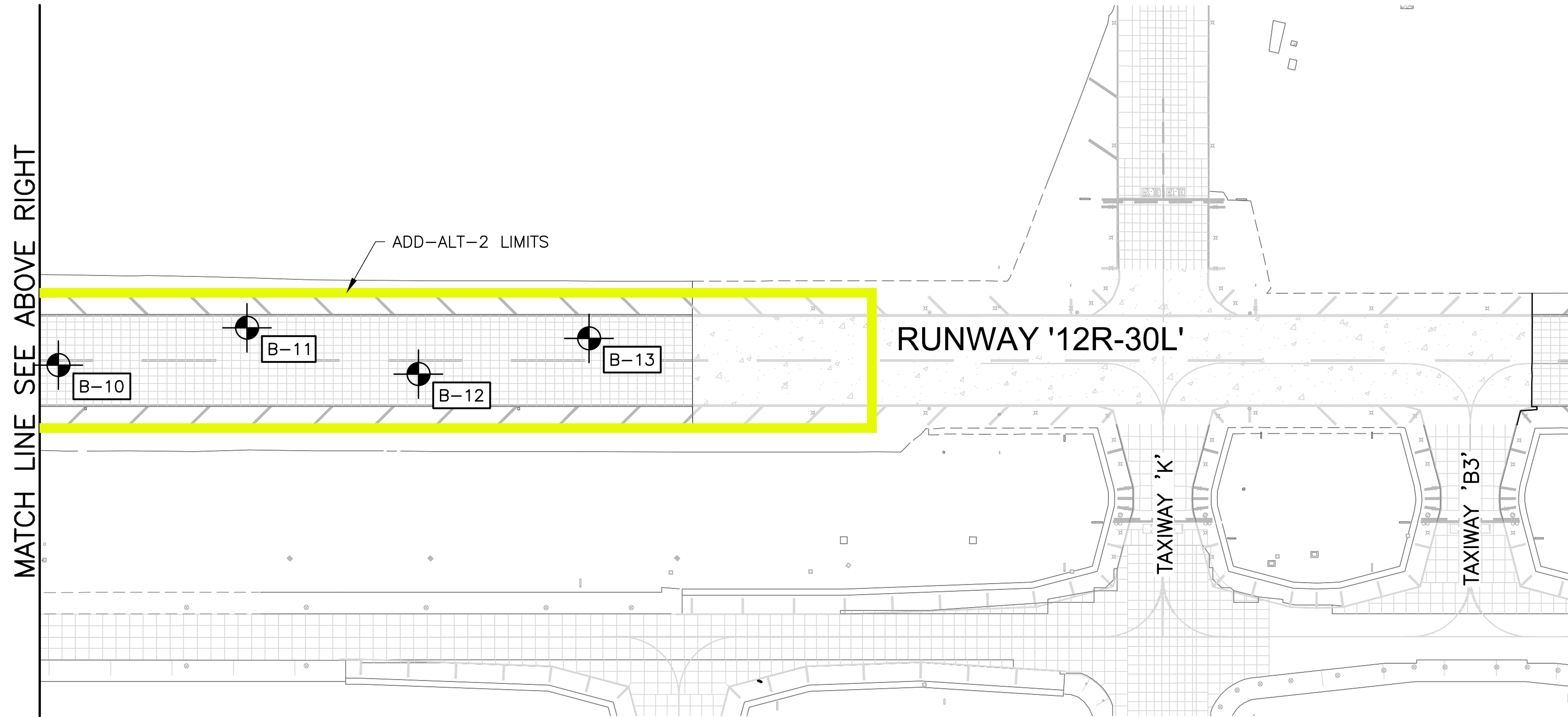
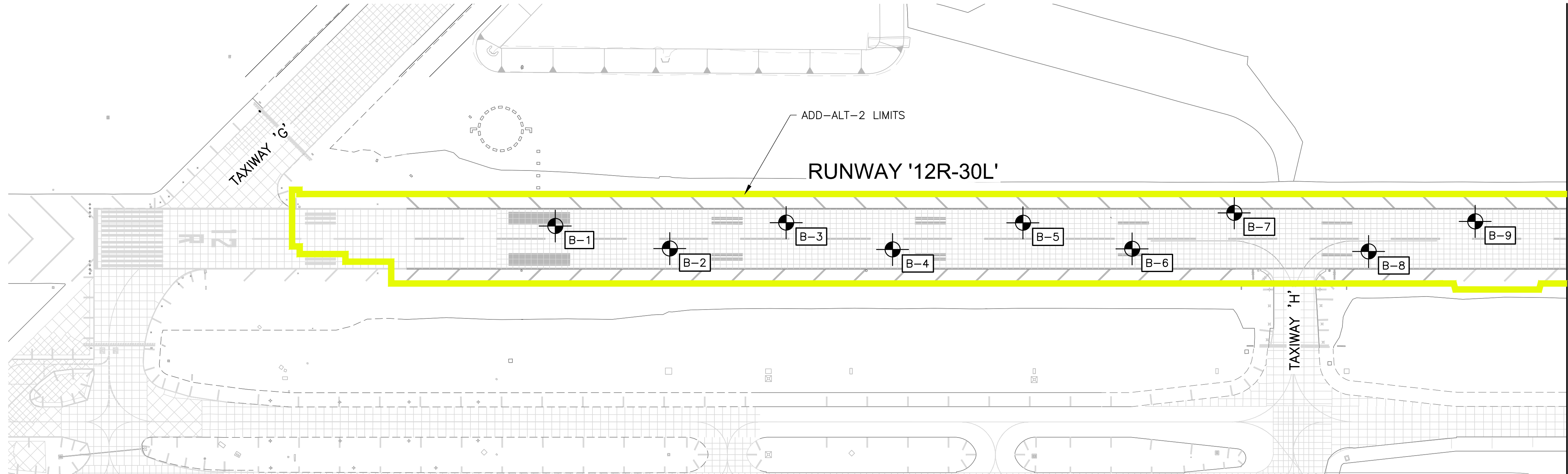


DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-C3-6_X-SWPP-AA2



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) STORMWATER POLLUTION
 PREVENTION PLAN**

FILE: \\2020\1020023\2303_PMG3A_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-2\20023_2303-GT3-1_X-BORE-A2.dwg DATE: April 26, 2023 TIME: 12:44 PM BY: travis.woodman



GEOTECHNICAL BORINGS NOTE

THIS INFORMATION IS PROVIDED ONLY FOR THE BIDDER'S CONVENIENCE AND IS NOT PART OF THE CONSTRUCTION CONTRACT DOCUMENTS. ALL BIDDERS SHALL BE FULLY RESPONSIBLE TO MAKE THEIR OWN INVESTIGATIONS AND FORM THEIR OWN ESTIMATES OF EXISTING SUBSURFACE CONDITIONS PER THE SPECIAL PROVISIONS.

Phoenix-Mesa Gateway Runway 12R-30L
 Reconstruction
 6033 S Soosaman Rd, Mesa, AZ
 Terracon Project No. 65225198

Boring Log No. B-01

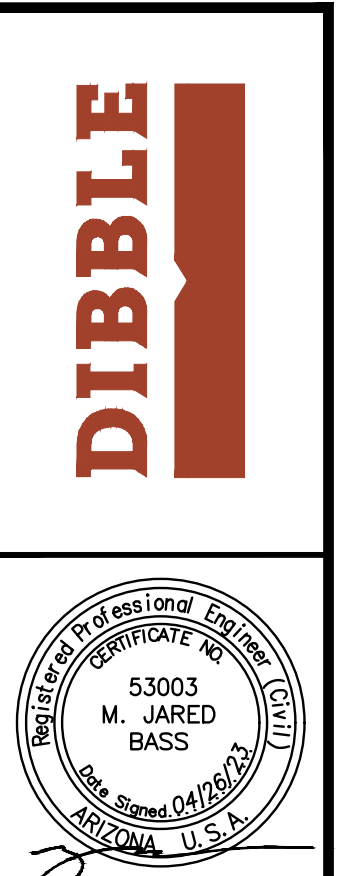
Graphic Log	Location: See Exploration Plan Latitude: 33.3154° Longitude: -111.6701°	Depth (ft.)	Water Level Observations	Drill Rig
0.0 - 0.8	CONCRETE, 9" PCC			772
0.8 - 1.3	AGGREGATE BASE COURSE, 7" ABC with +3" aggregate			Automatic
1.3 - 1.8	CONCRETE, 5" PCC			Driller
1.8 - 4.5	LEAN CLAY WITH SAND (CL), fine to medium grained, low to medium plasticity, brown, medium stiff	4-5	15.7 110	Logged by
4.5 - 8.6	stiff	8-6	16.2 112	Boring Started 08-10-2022
8.6 - 29.50	hard	29-50	8.2 107	Boring Completed 08-10-2022
29.50 - 11.0	Boring Terminated at 11 Feet			

Notes: See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations.

Advancement Method: Abandonment Method
 Boring backfilled with Auger Cuttings
 Surface capped with concrete

Facilities | Environmental | Geotechnical | Materials

REV	DATE	DESCRIPTION



DATE:	4/26/2023
DESIGNED BY:	CMR
DRAWN BY:	DSO
REVIEWED BY:	MJB/KLS
FILE NAME:	20023_2303-GT3-1_X-BORE_A2



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) BORINGS
 BORING LOCATION MAP**



FILE:J:\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-2\20023-2303-GT3-1_X-BORE-A2.dwg DATE: April 26, 2023 TIME: 12:44 PM BY: travis.woodman

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sosaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-02

Graphic Log	Depth (ft.)	Water Level	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finest
						LL-PL-PI	
Location: See Exploration Plan Latitude: 33.3148° Longitude: -111.6696°							
0.5' CONCRETE, 8.5" PCC							
0.7' AGGREGATE BASE COURSE, 7" ABC w/ +3" Aggregate							
1.3' CONCRETE, 6" PCC							
1.8' SANDY LEAN CLAY (CL), coarse to medium grained, medium plasticity, light brown to brown, medium stiff			4-4	15.8	114		
very stiff	5		7-14	18.3	106		40-18-22 59
hard	10		18-50	11.2	110		
Boring Terminated at 11 Feet							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

Notes

Drill Rig
772
Hammer Type Automatic
Driller
Logged by

Abandonment Method
Boring sealed with Auger Cuttings
Surface capped with concrete

Boring Started 08-10-2022
Boring Completed 08-10-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sosaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-05

Graphic Log	Depth (ft.)	Water Level	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finest
						LL-PL-PI	
Location: See Exploration Plan Latitude: 33.3132° Longitude: -111.6675°							
0.5' CONCRETE, 8" PCC							
0.7' AGGREGATE BASE COURSE, 5" ABC w/ +3" Aggregate							
1.1' CONCRETE, 5.5" PCC							
1.5' LEAN CLAY WITH SAND (CL), fine to medium grained, low plasticity, light brown, stiff			6-4	13.5	115		
very stiff	5		9-14	12.4	109		48-18-30
hard	10		20-50	8.9	103		
Boring Terminated at 11 Feet							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

Notes

Drill Rig
772
Hammer Type Automatic
Driller
Logged by

Abandonment Method
Boring sealed with Auger Cuttings
Surface capped with concrete

Boring Started 08-10-2022
Boring Completed 08-10-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sosaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-03

Graphic Log	Depth (ft.)	Water Level	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finest
						LL-PL-PI	
Location: See Exploration Plan Latitude: 33.3143° Longitude: -111.6688°							
0.5' CONCRETE, 8.5" PCC							
0.7' AGGREGATE BASE COURSE, 7" ABC w/ +3" Aggregate							
1.3' CONCRETE, 5" PCC							
1.7' SANDY LEAN CLAY (CL), fine to medium grained, low plasticity, light brown to tan, medium stiff			3-5				
stiff	5		7-5	9.2	119		42-19-23
hard	10		33-50	8.5	101		
Boring Terminated at 11 Feet							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

Notes

Drill Rig
772
Hammer Type Automatic
Driller
Logged by

Abandonment Method
Boring sealed with Auger Cuttings
Surface capped with concrete

Boring Started 08-10-2022
Boring Completed 08-10-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sosaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-06

Graphic Log	Depth (ft.)	Water Level	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finest
						LL-PL-PI	
Location: See Exploration Plan Latitude: 33.3126° Longitude: -111.6670°							
0.5' CONCRETE, 9" PCC							
1.0' AGGREGATE BASE COURSE, 3" ABC w/ +3" Aggregate							
1.5' CONCRETE, 6.5" PCC							
1.5' SANDY LEAN CLAY (CL), fine to medium grained, medium plasticity, light brown, medium stiff			3-3	18.6	101		
very stiff	5		10-17	13.8	114		41-19-22 51
hard	10		38-50	6.0	109		
Boring Terminated at 11 Feet							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

Notes

Drill Rig
772
Hammer Type Automatic
Driller
Logged by

Abandonment Method
Boring sealed with Auger Cuttings
Surface capped with concrete

Boring Started 08-10-2022
Boring Completed 08-10-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sosaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-04

Graphic Log	Depth (ft.)	Water Level	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finest
						LL-PL-PI	
Location: See Exploration Plan Latitude: 33.3137° Longitude: -111.6694°							
0.5' CONCRETE, 8.5" PCC							
0.7' AGGREGATE BASE COURSE, 5.5" ABC w/ +3" Aggregate							
1.2' CONCRETE, 6" PCC							
1.7' SANDY FAT CLAY (CH), fine to medium grained, medium to high plasticity, light brown, medium stiff			5-4	13.1	116		
stiff	5		8-16	16.8	96		50-18-32 64
hard	10		50	14.6	101		
Boring Terminated at 11 Feet							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

Notes

Drill Rig
772
Hammer Type Automatic
Driller
Logged by

Abandonment Method
Boring sealed with Auger Cuttings
Surface capped with concrete

Boring Started 08-10-2022
Boring Completed 08-10-2022

Facilities | Environmental | Geotechnical | Materials

Phoenix-Mesa Gateway Runway 12R-30L
Reconstruction
6033 S Sosaman Rd | Mesa, AZ
Terracon Project No. 65225198



Boring Log No. B-07

Graphic Log	Depth (ft.)	Water Level	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Finest
						LL-PL-PI	
Location: See Exploration Plan Latitude: 33.3122° Longitude: -111.6663°							
0.5' CONCRETE, 9.25" PCC							
0.8' AGGREGATE BASE COURSE, 3" ABC w/ +3" Aggregate							
1.1' ASPHALT, 3.5" Asphalt							
1.6' CONCRETE, 6" PCC							
1.6' SANDY FAT CLAY (CH), fine to medium grained, low plasticity, light brown to tan, medium stiff			3-5	16.1	109		
very stiff	5		8-21	15.9	109		51-21-30
hard	10		21-24	11.9	104		
Boring Terminated at 11 Feet							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

Notes

Drill Rig
772
Hammer Type Automatic
Driller
Logged by

Abandonment Method
Boring sealed with Auger Cuttings
Surface capped with concrete

Boring Started 08-10-2022
Boring Completed 08-10-2022

Facilities | Environmental | Geotechnical | Materials

REV	DATE	DESCRIPTION



Professional Engineer
53003
M. JARED BASS
Date Expiry 04/26/24
Arizona, U.S.A.

DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 20023_2303-GT3-1_X-BORE-A2

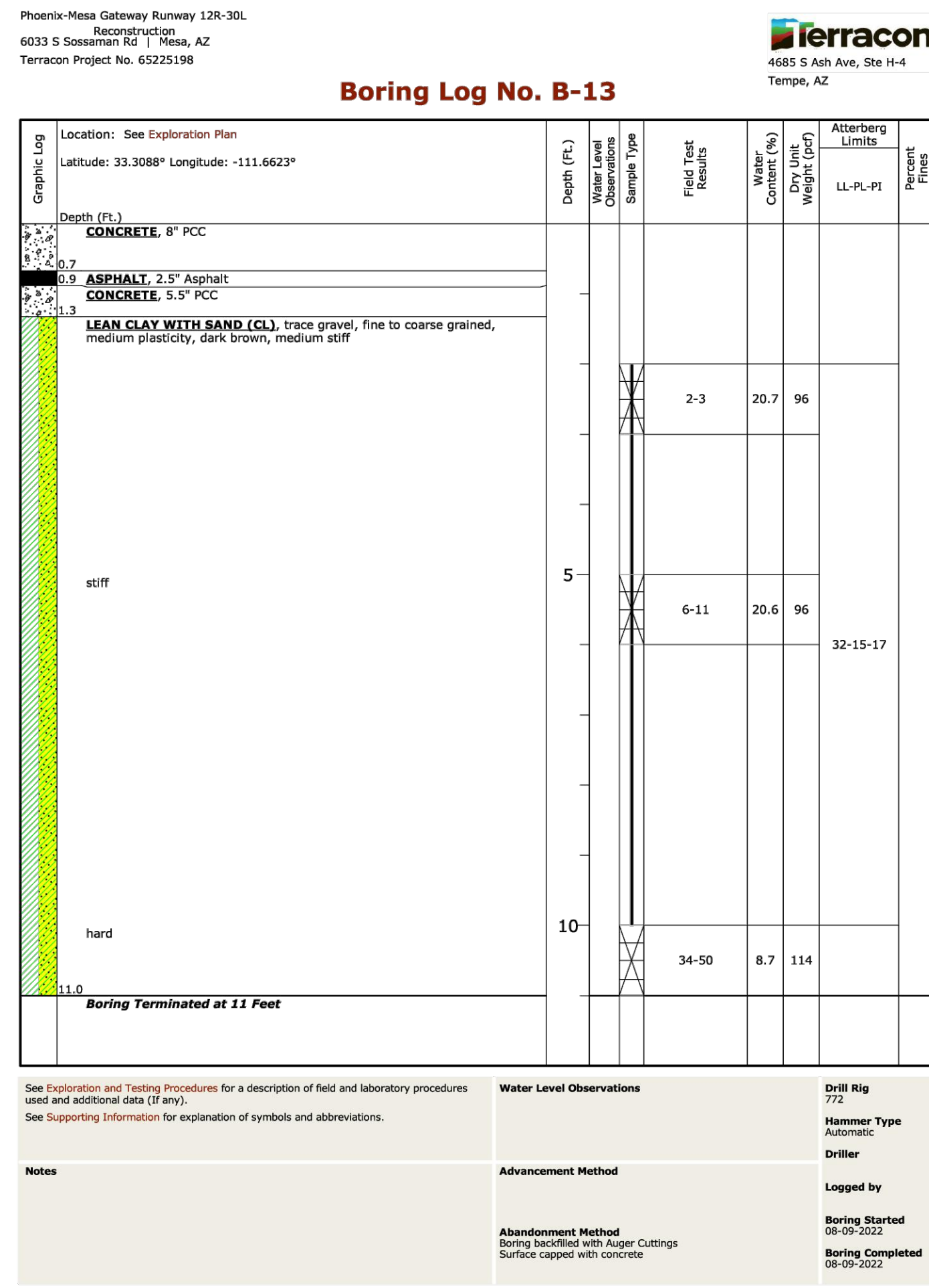
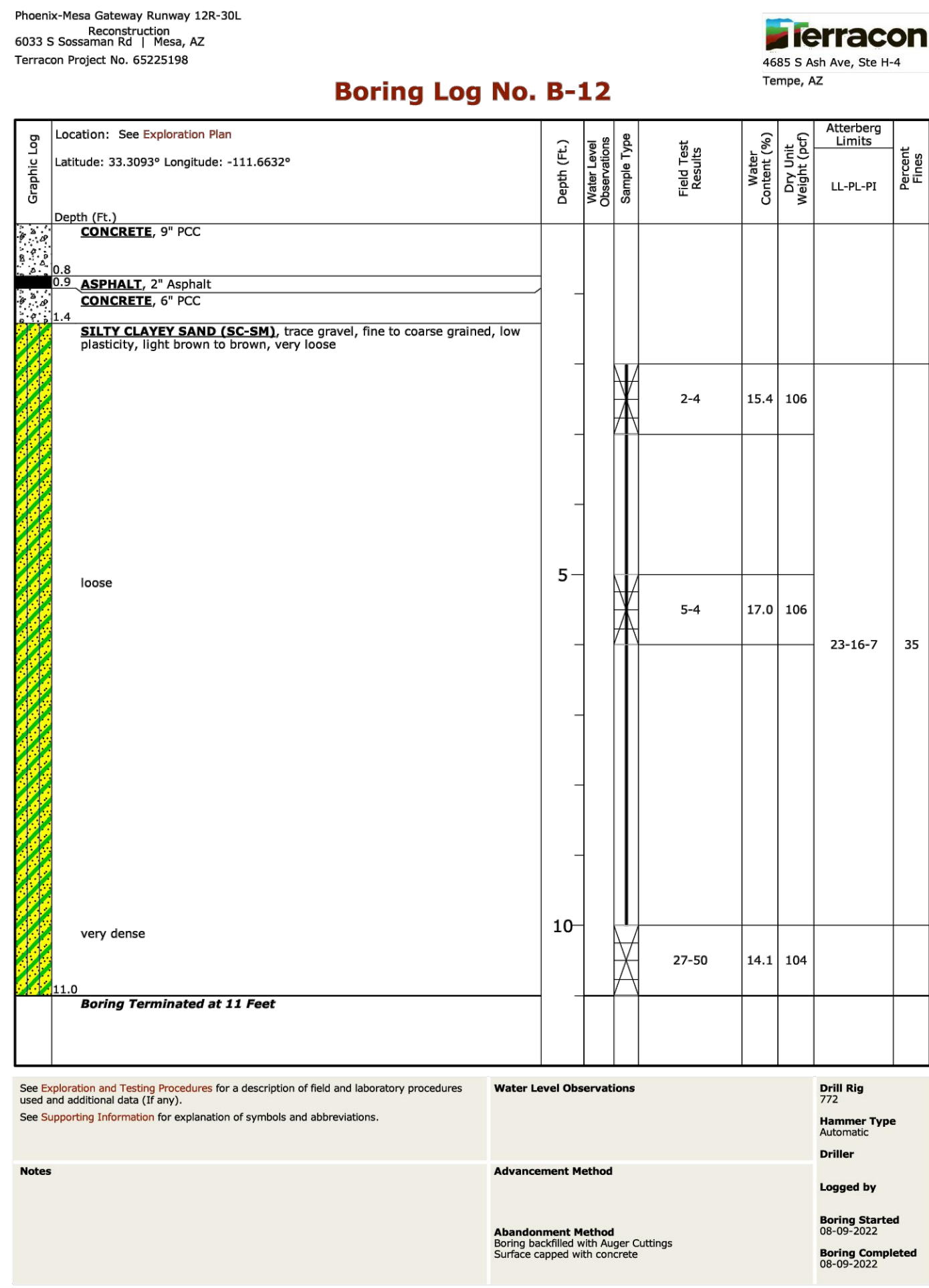
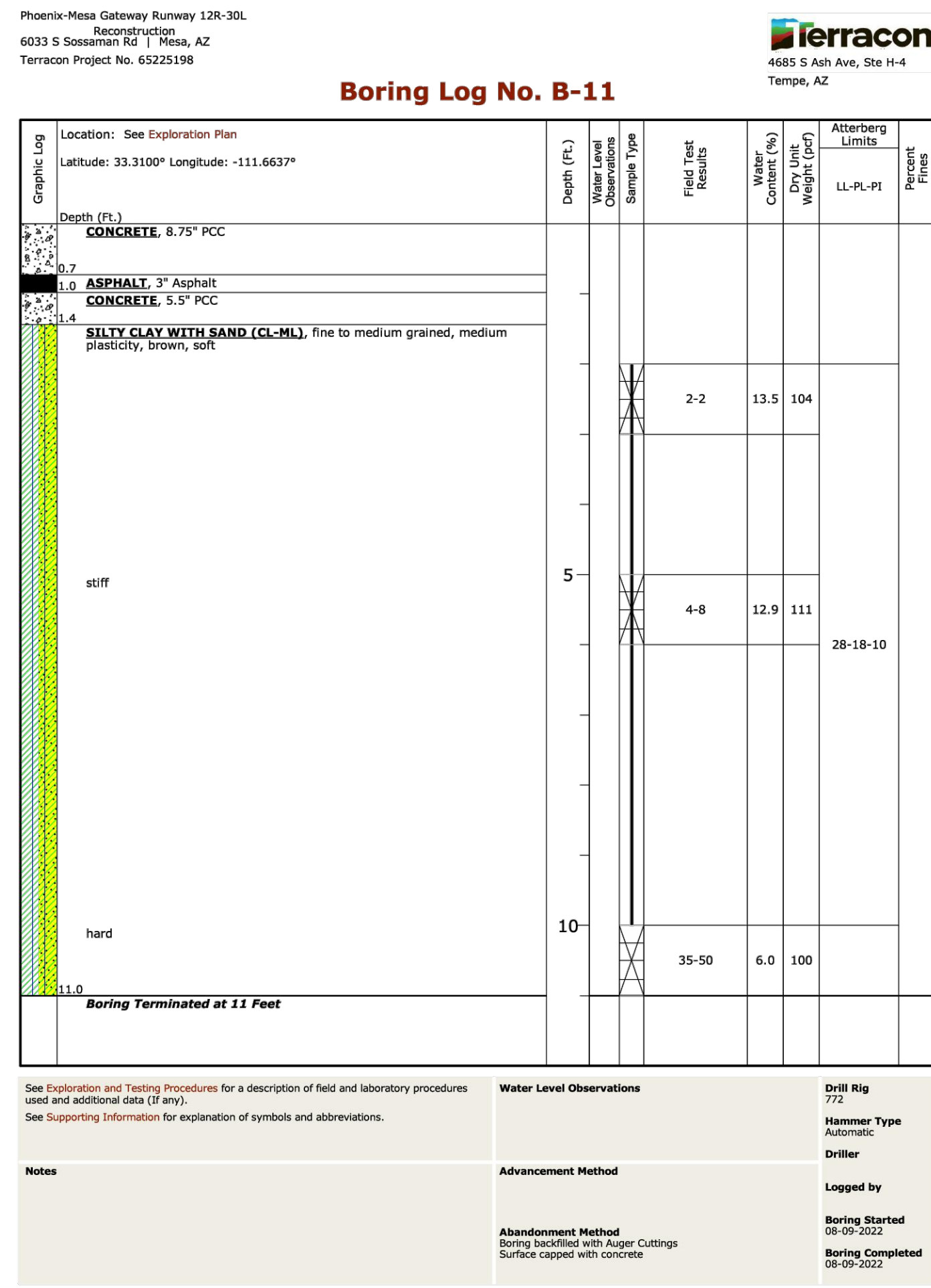
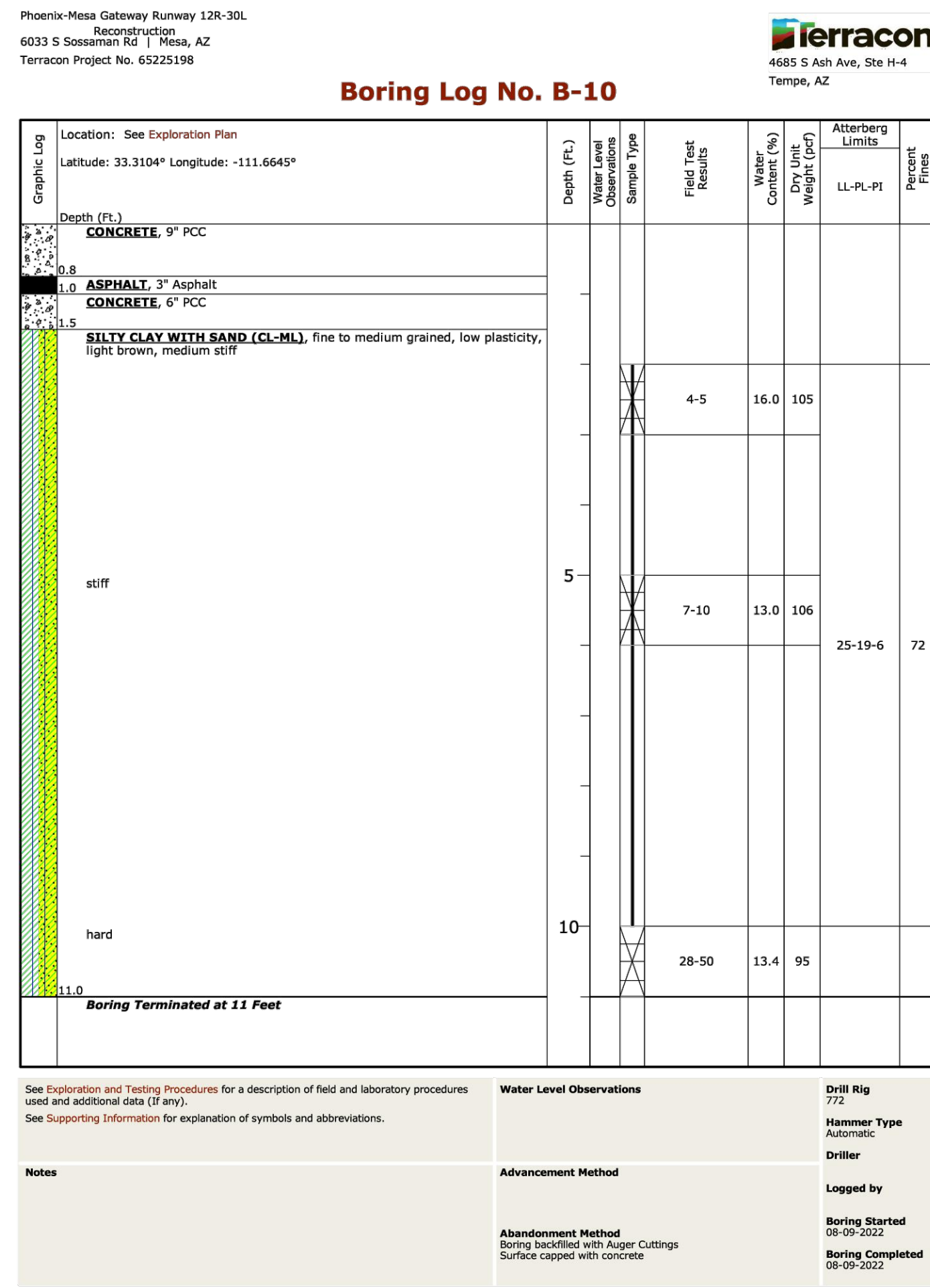
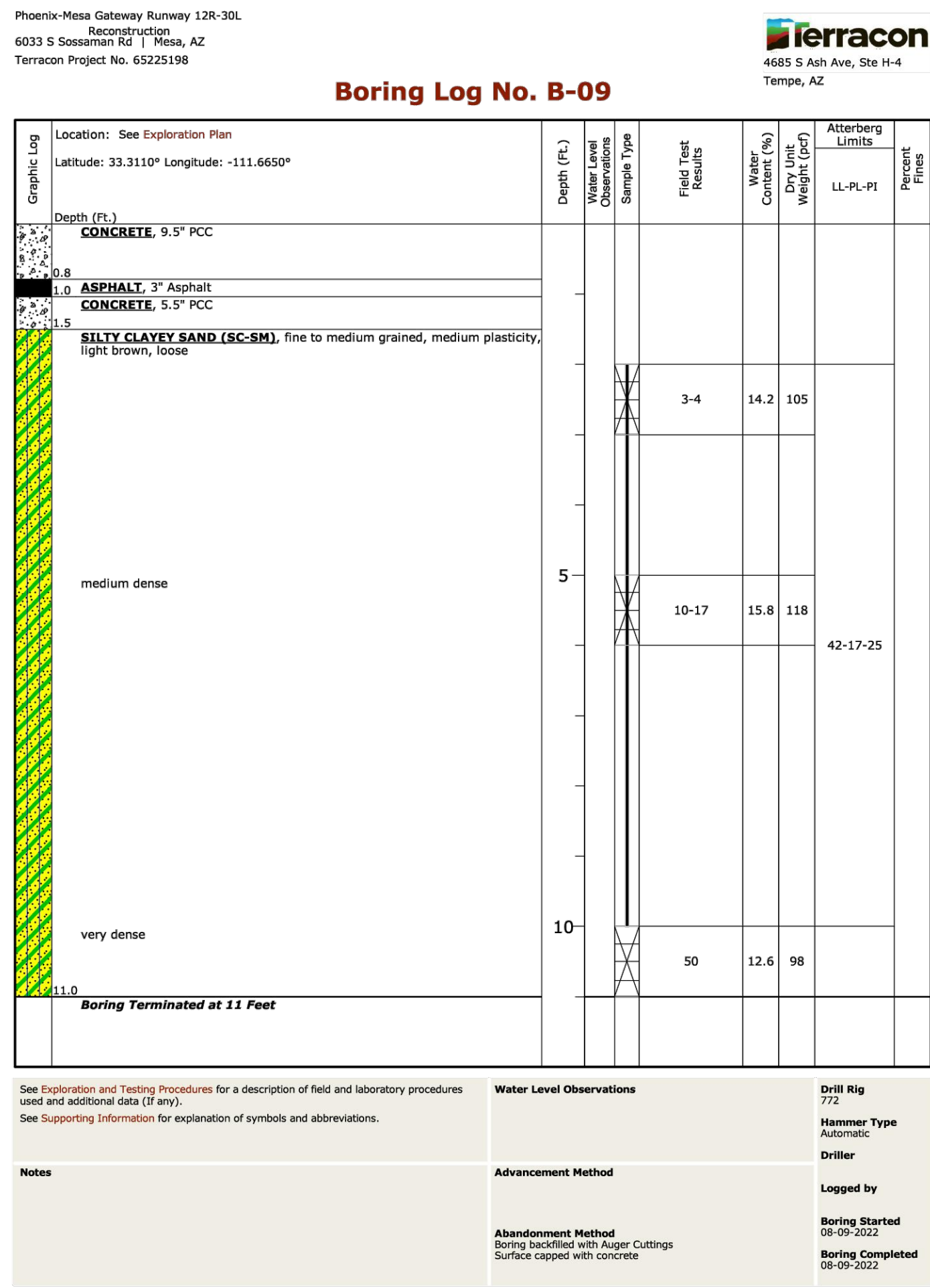
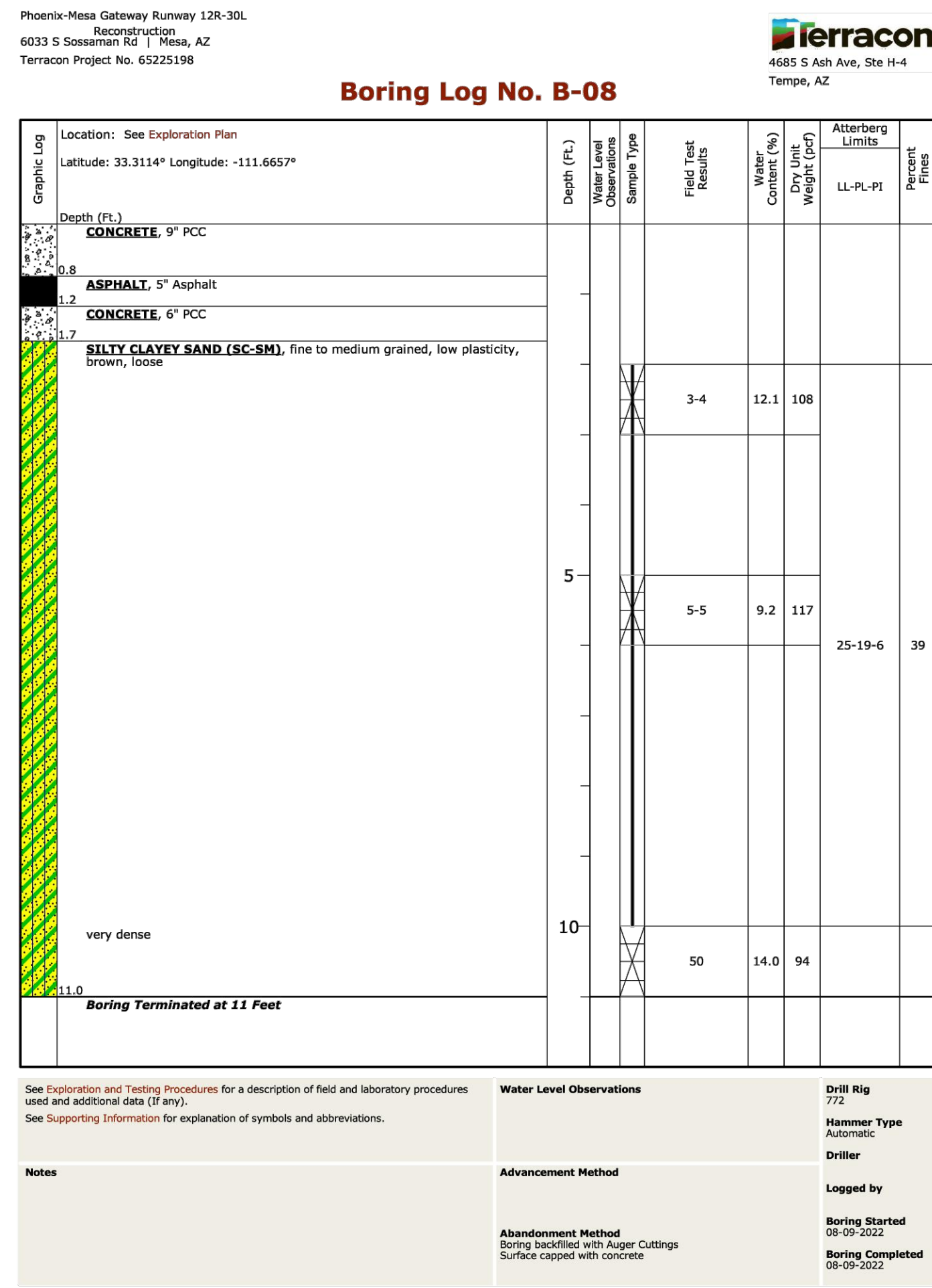
Phoenix-Mesa Gateway Airport

**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) BORINGS
BORING LOGS**

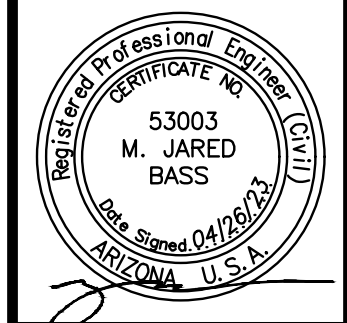
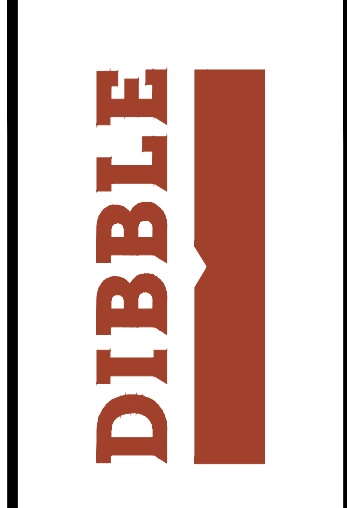


GT3-1.2
SHEET NO.
141 OF 211

FILE:J:\2020\1020023\2303_PMGAA_RW_12R-30L_Reconstruction_(Design)\CAD\ADD-ALT-2\20023-2303-GT3-1_X-BORE-A2.dwg DATE: April 26, 2023 TIME: 12:44 PM BY: travis.woodman



REV	DATE	DESCRIPTION



DATE: 4/26/2023
DESIGNED BY: CMR
DRAWN BY: DSO
REVIEWED BY: MJB/KLS
FILE NAME: 20023_2303-GT3-1_X-BORE_A2

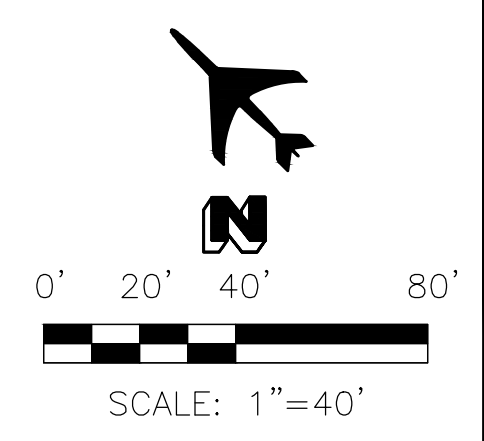
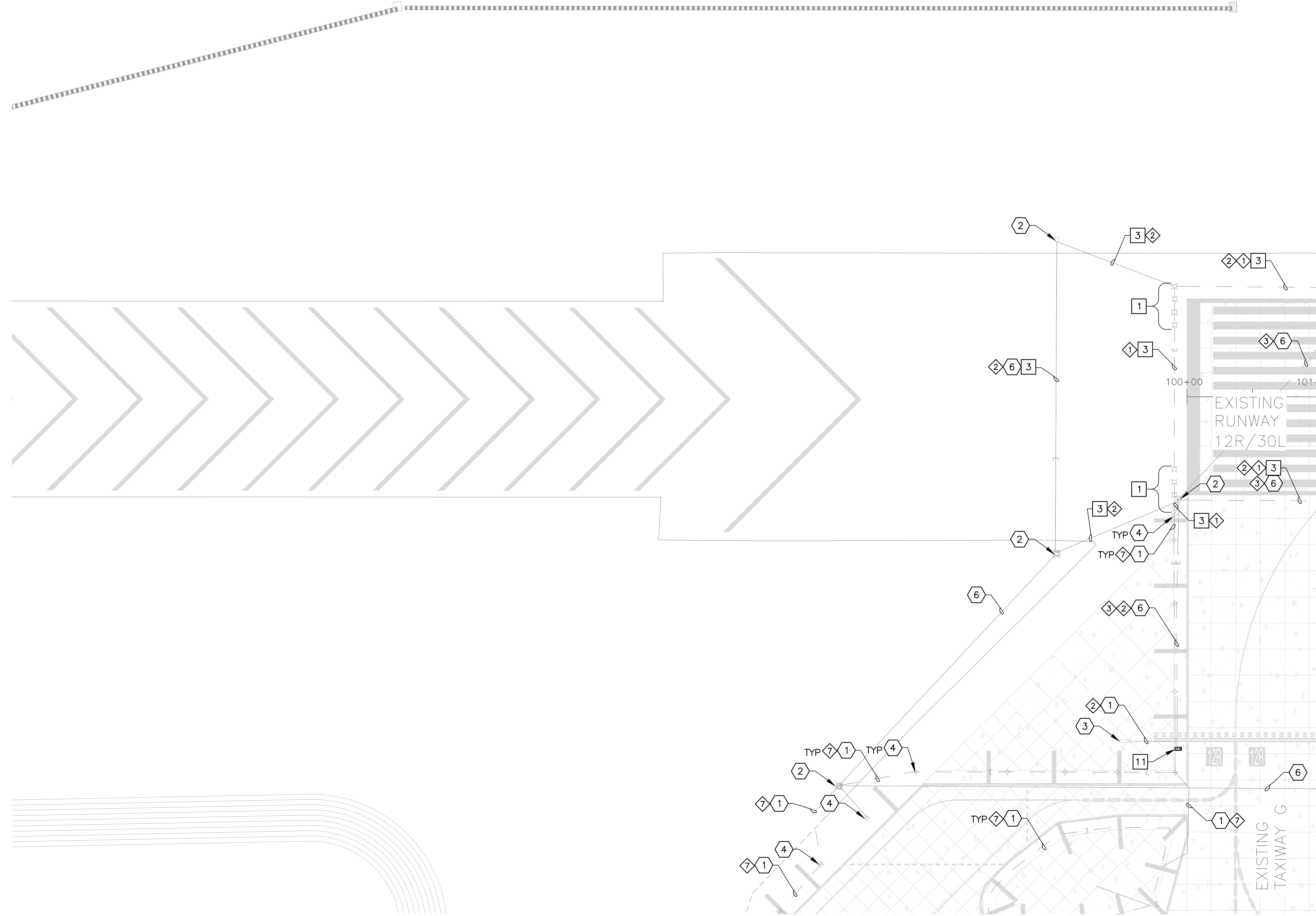


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) BORINGS
BORING LOGS**

GT3-1.3
SHEET NO.
142 OF 211



FILE Q:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE: April 18, 2023 TIME: 3:45 PM BY: jeff weidman

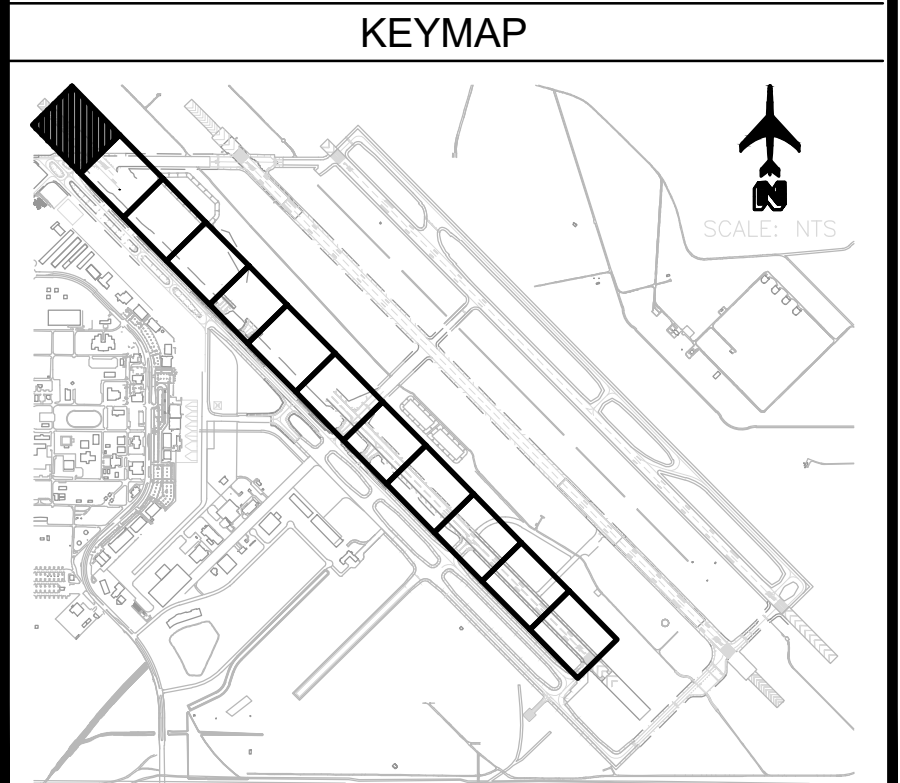


MATCH LINE STA 101+00 - SEE SHEET E3-2.2

REMOVAL NOTE	
1	REMOVE AND SALVAGE EXISTING RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER 8 EA
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 655 LF
11	REMOVE EXISTING RUNWAY GUARD LIGHT, EXISTING BASE CAN TO REMAIN 1 EA

REFERENCE NOTE	
1	EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
3	EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
4	EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
7	TA2 (TAXIWAY G)



Call at least two full working days before you begin excavation:

Arizona 811
Arizona State, Inc.
Toll 8-1-1 or 1-800-874-8111 (TDD-8348)
In Maricopa County: (602) 253-1100

REV	DATE	DESCRIPTION

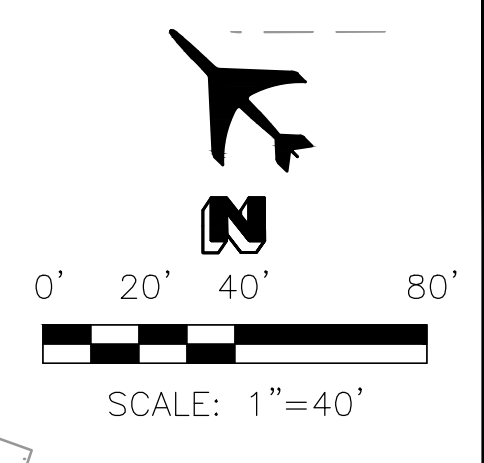
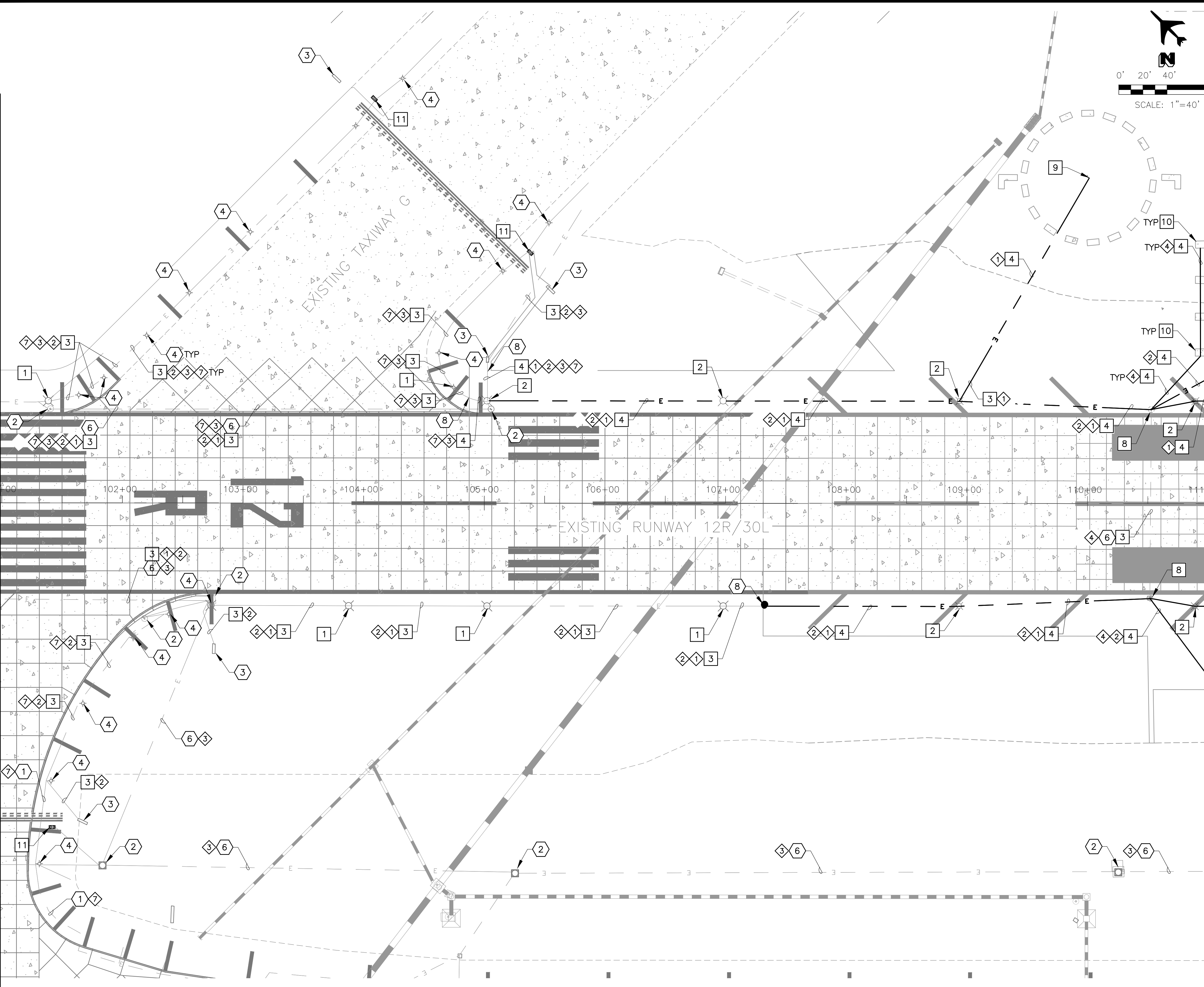
DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
DEMOLITION**

FILE G:\PROJECTS\220000\220206 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\220206 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE: April 20, 2023 TIME: 2:54 PM BY: julio andrino

MATCH LINE STA 101+00 - SEE SHEET E3-2.1

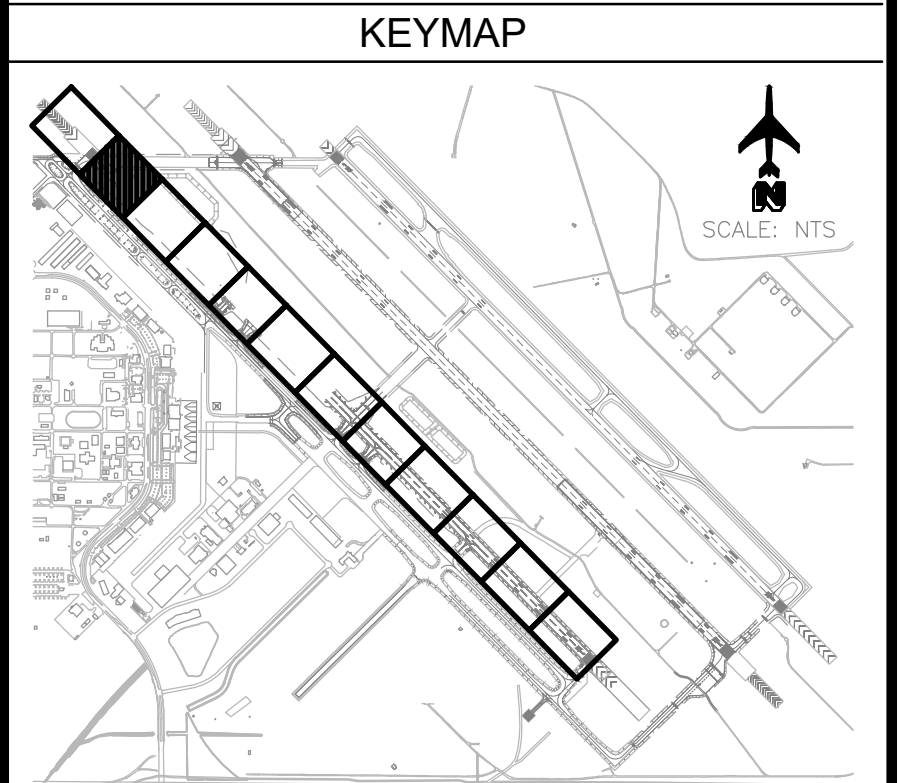


MATCH LINE STA 11+00 - SEE SHEET E3-2.3

REMOVAL NOTE	
1	REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 5 EA
2	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 6 EA
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 1805 LF
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 1385 LF
8	EXCAVATE AND REMOVE EXISTING 4X4X5 CONCRETE HANDHOLE 2 EA
9	REMOVE AND SALVAGE EXISTING WINDCONE, REMOVE CONCRETE FOUNDATION. 1 EA
10	REMOVE AND SALVAGE EXISTING PAPI FOR REINSTALLATION. REMOVE EXISTING CONCRETE FOUNDATION. 4 EA
11	REMOVE EXISTING RUNWAY GUARD LIGHT, EXISTING BASE CAN TO REMAIN 3 EA

REFERENCE NOTE	
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
3	EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
4	EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
12	EXISTING RGL TO REMAIN - PROTECT IN PLACE

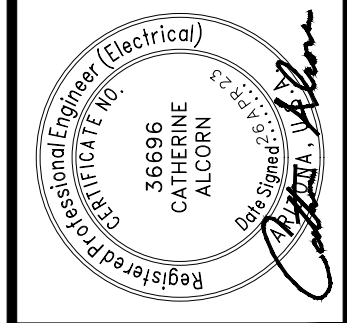
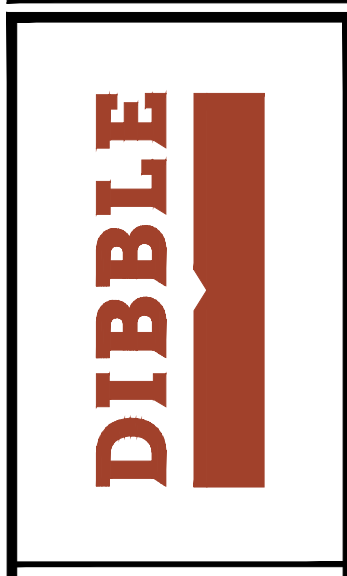
CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)
7	TA2 (TAXIWAY G)



Call at least two full working days before you begin excavation:

Arizona 811
Arizona State Dept. of Transportation
811-811 or 1-800-874-8111 (TDD-811)
In Maricopa County: (602) 965-1100

REV	DATE	DESCRIPTION

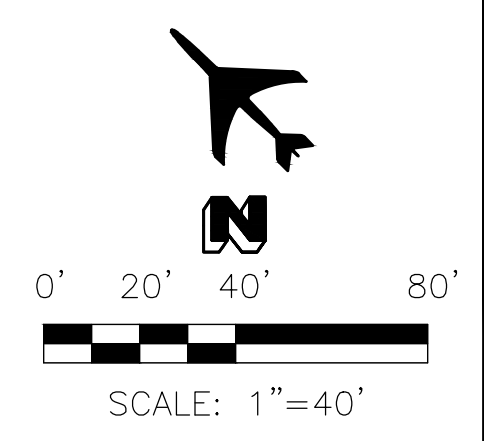
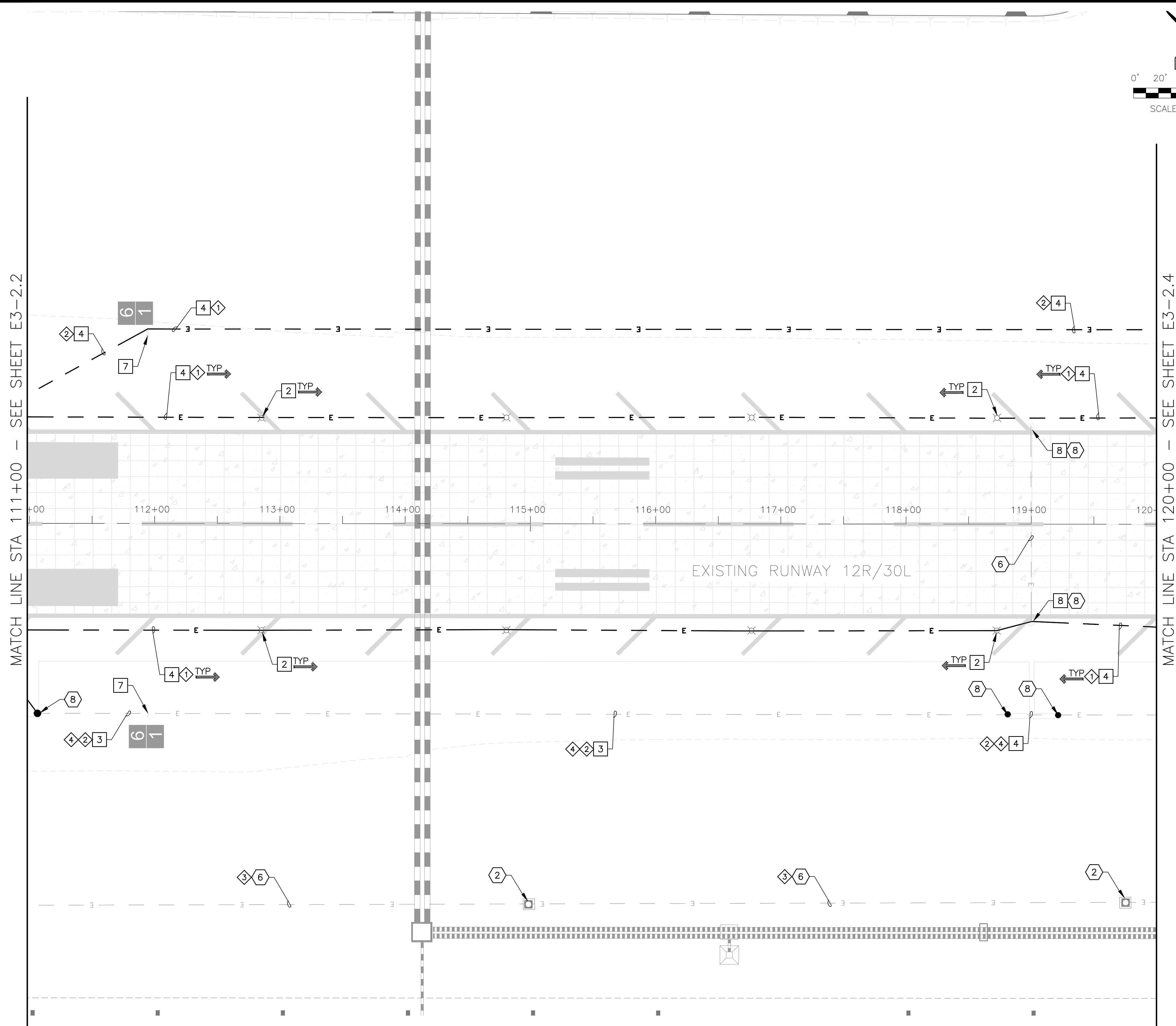


DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
DEMOLITION**

FILE:Q:\PROJECTS\22000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 18, 2023 TIME:3:51 PM BY:jeff weidman



REMOVAL NOTE	
2	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 8 EA
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 970 LF
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 2650 LF
7	REMOVE AIRFIELD GUIDANCE SIGN AND CONCRETE SIGN BASE. 2 EA
8	EXCAVATE AND REMOVE EXISTING 4X4X5 CONCRETE HANDHOLE 2 EA

REFERENCE NOTE	
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.

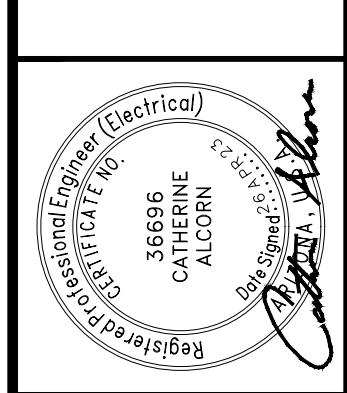
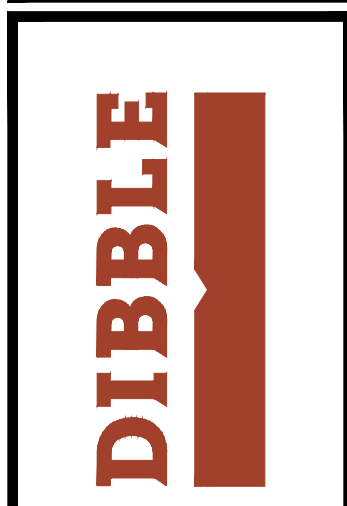
CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)

KEYMAP	

Call at least two full working days before you begin excavation:

Arizona 811
Arizona State, Inc.
Dist 6-1 or 1-800-874-8287 (TDD) 602-524-8287
in Maricopa County (602) 263-1100

REV	DATE	DESCRIPTION

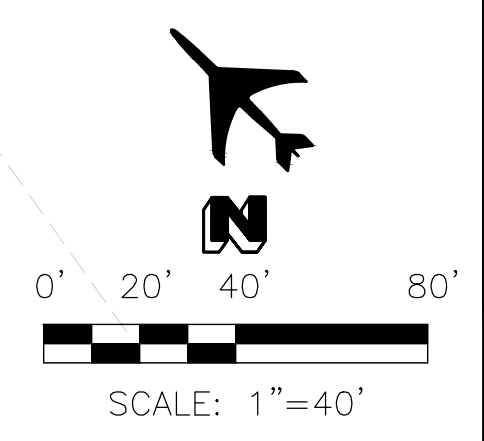
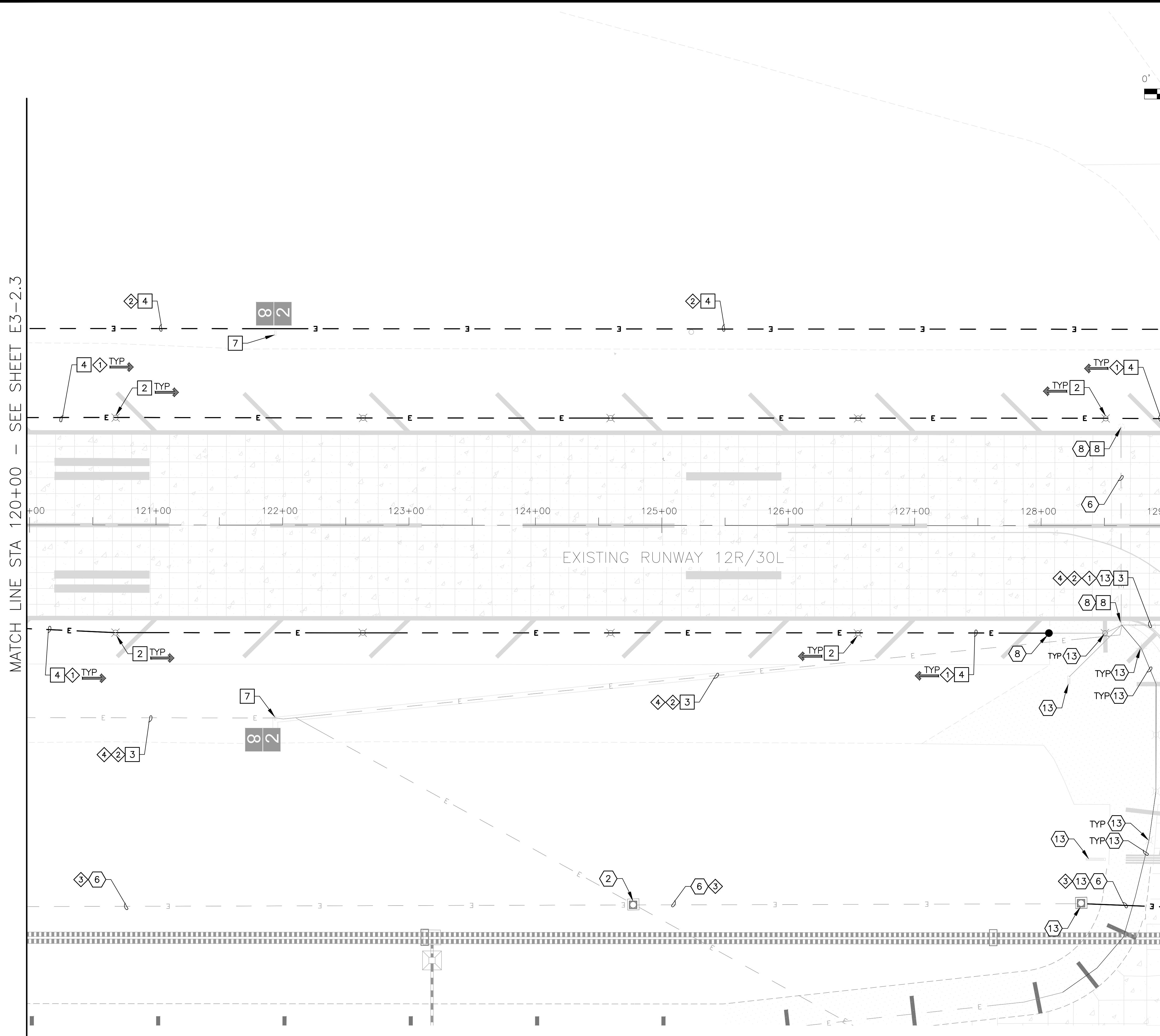


DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
DEMOLITION**

FILE:Q:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 18, 2023 TIME:3:52 PM BY:jeff weidman



REMOVAL NOTE	
2	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 9 EA
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 960 LF
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 2620 LF
7	REMOVE AIRFIELD GUIDANCE SIGN AND CONCRETE SIGN BASE. 2 EA
8	EXCAVATE AND REMOVE EXISTING 4X4X5 CONCRETE HANDHOLE 2 EA

REFERENCE NOTE	
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
13	REFER TO ADD ALT 2 SCHEDULE IV ELECTRICAL DEMOLITION SHEETS E4-1.1 TO E4-1.2

CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)

KEYMAP	

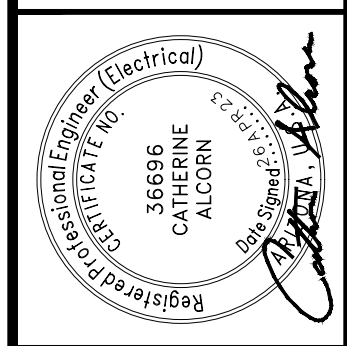
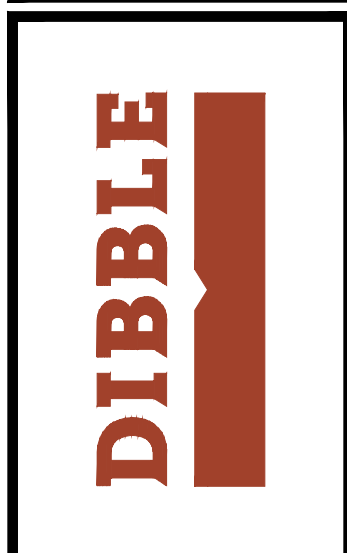
REMOVAL NOTE	
2	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 9 EA
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 960 LF
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 2620 LF
7	REMOVE AIRFIELD GUIDANCE SIGN AND CONCRETE SIGN BASE. 2 EA
8	EXCAVATE AND REMOVE EXISTING 4X4X5 CONCRETE HANDHOLE 2 EA

REFERENCE NOTE	
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
13	REFER TO ADD ALT 2 SCHEDULE IV ELECTRICAL DEMOLITION SHEETS E4-1.1 TO E4-1.2

CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)

KEYMAP	

REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

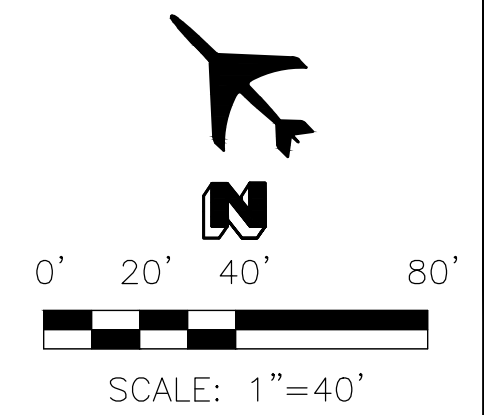


**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
DEMOLITION**

E3-2.4

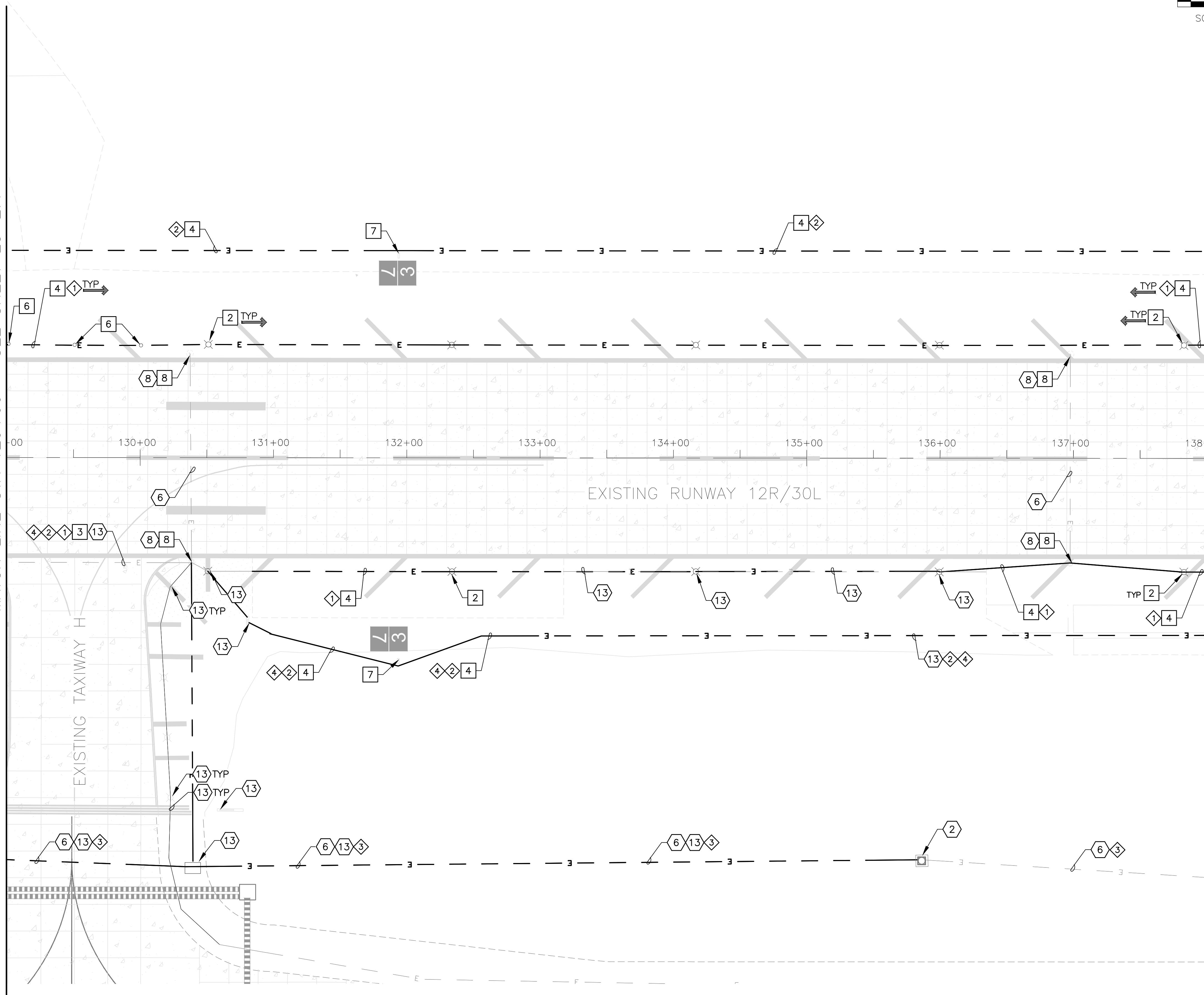


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MATCH LINE STA 129+00 - SEE SHEET E3-2.4

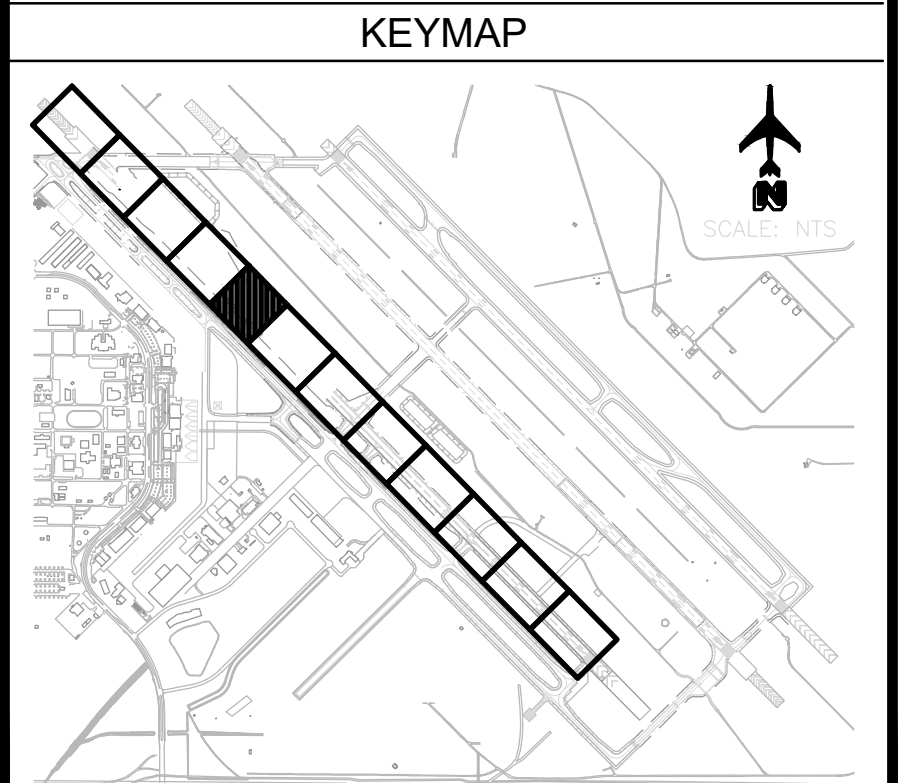
MATCH LINE STA 138+00 - SEE SHEET E3-2.6



REMOVAL NOTE	
2	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 7 EA
3	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN 25 LF
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 2400 LF
6	REMOVE EXISTING JUNCTION CAN / LIGHT BASE. 3 EA
7	REMOVE AIRFIELD GUIDANCE SIGN AND CONCRETE SIGN BASE. 2 EA
8	EXCAVATE AND REMOVE EXISTING 4X4X5 CONCRETE HANDHOLE 4 EA

REFERENCE NOTE	
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE.
13	REFER TO ADD ALT 2 SCHEDULE IV ELECTRICAL DEMOLITION SHEETS E4-1.1 TO E4-1.2

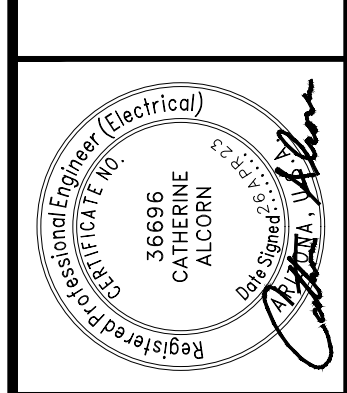
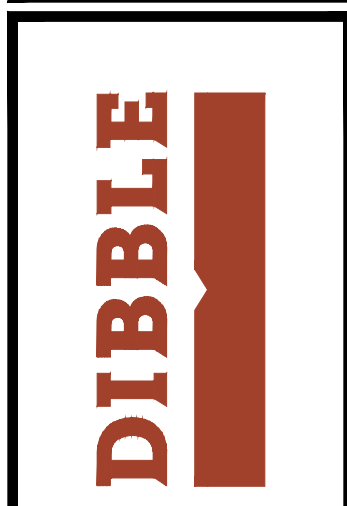
CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)



CR engineers

Call at least two full working days before you begin excavation:
ARIZONA 811
 Arizona St. Stop, Inc.
 Dial 8-1-1 or 1-800-874-8287 (TDD-8348)
 in Maricopa County (602) 263-1100

REV	DATE	DESCRIPTION



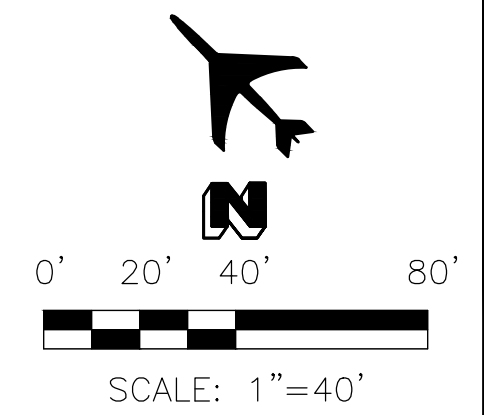
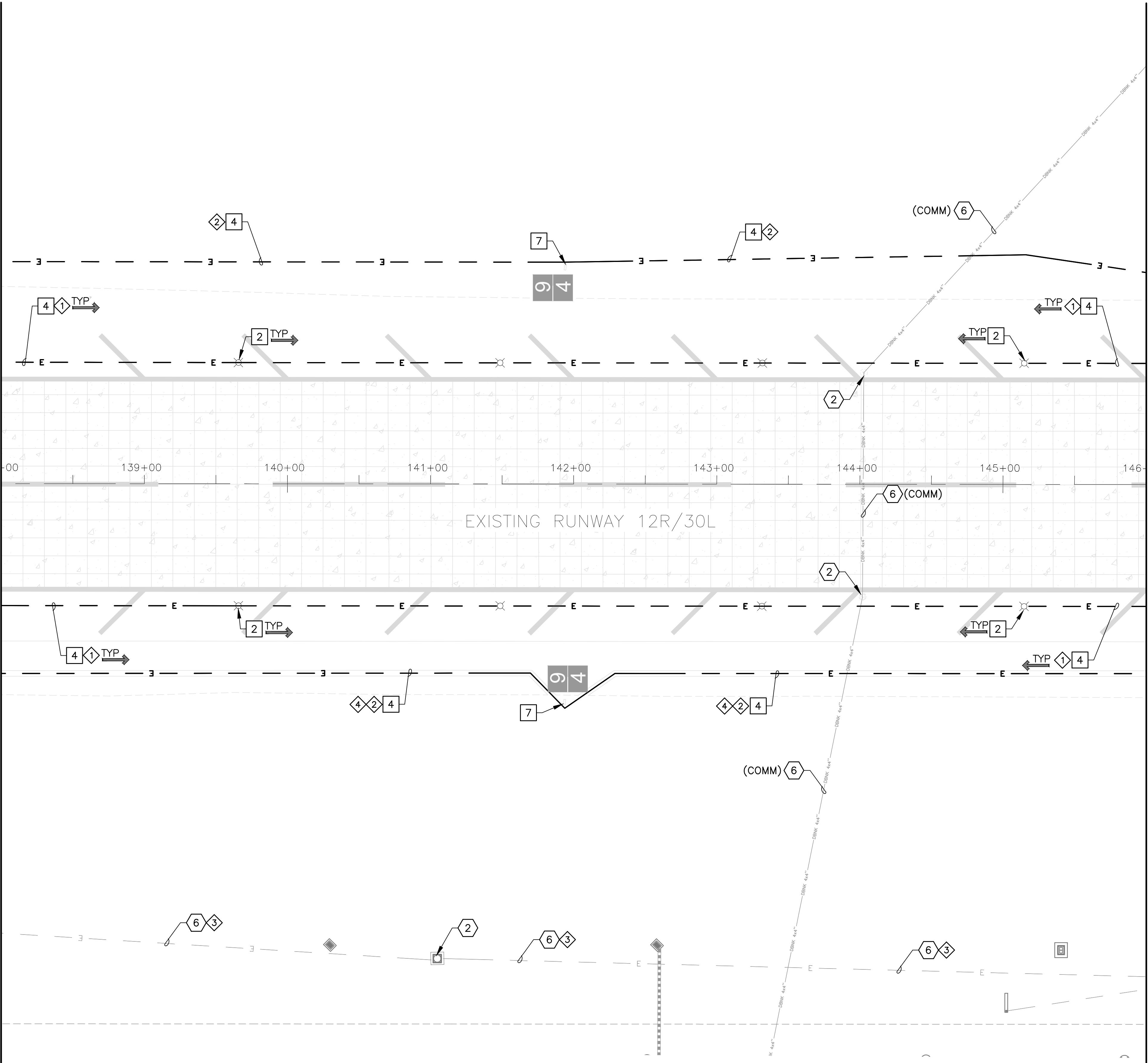
DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**

FILE:Q:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 18, 2023 TIME:3:54 PM BY:jeff weidman

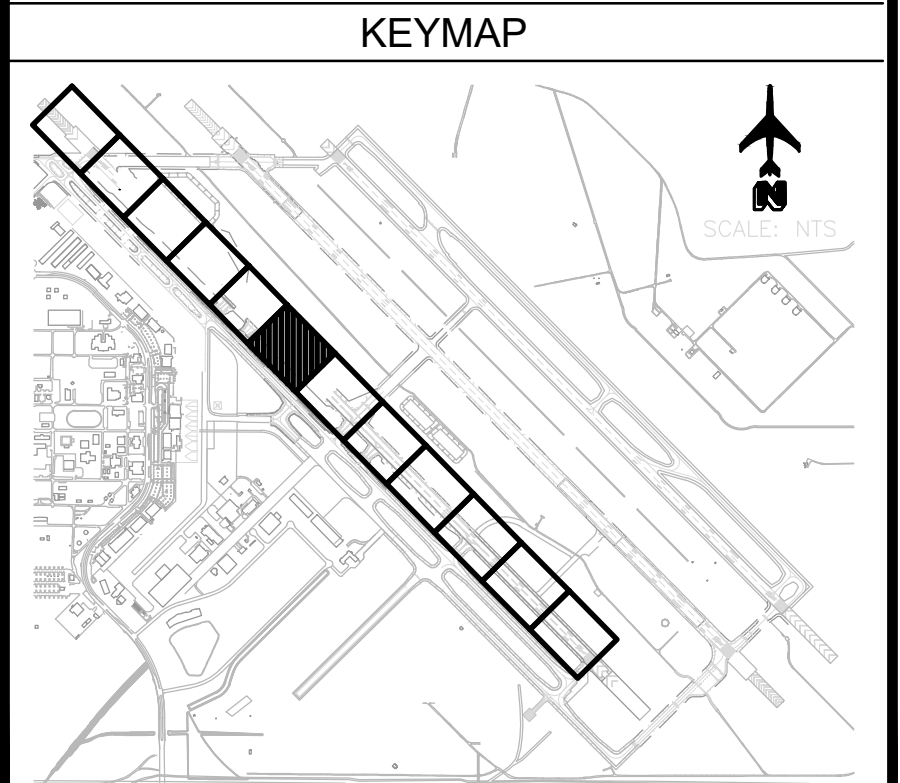
MATCH LINE STA 138+00 - SEE SHEET E3-2.5



REMOVAL NOTE	
2	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 8 TOTAL
4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 3220 LF
7	REMOVE AIRFIELD GUIDANCE SIGN AND CONCRETE SIGN BASE. 2 TOTAL

REFERENCE NOTE	
2	EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
6	EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

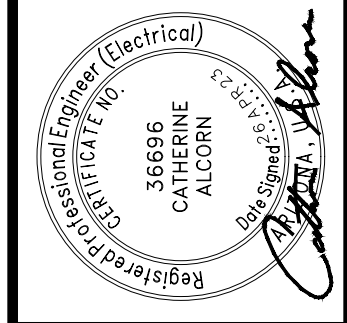
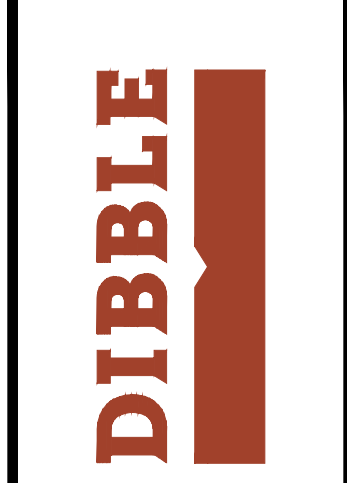
CIRCUIT IDENTIFICATION	
1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)



CR engineers

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ARIZONA 811
 (800) 485-4343
 In Maricopa County (602) 253-1100

REV	DATE	DESCRIPTION



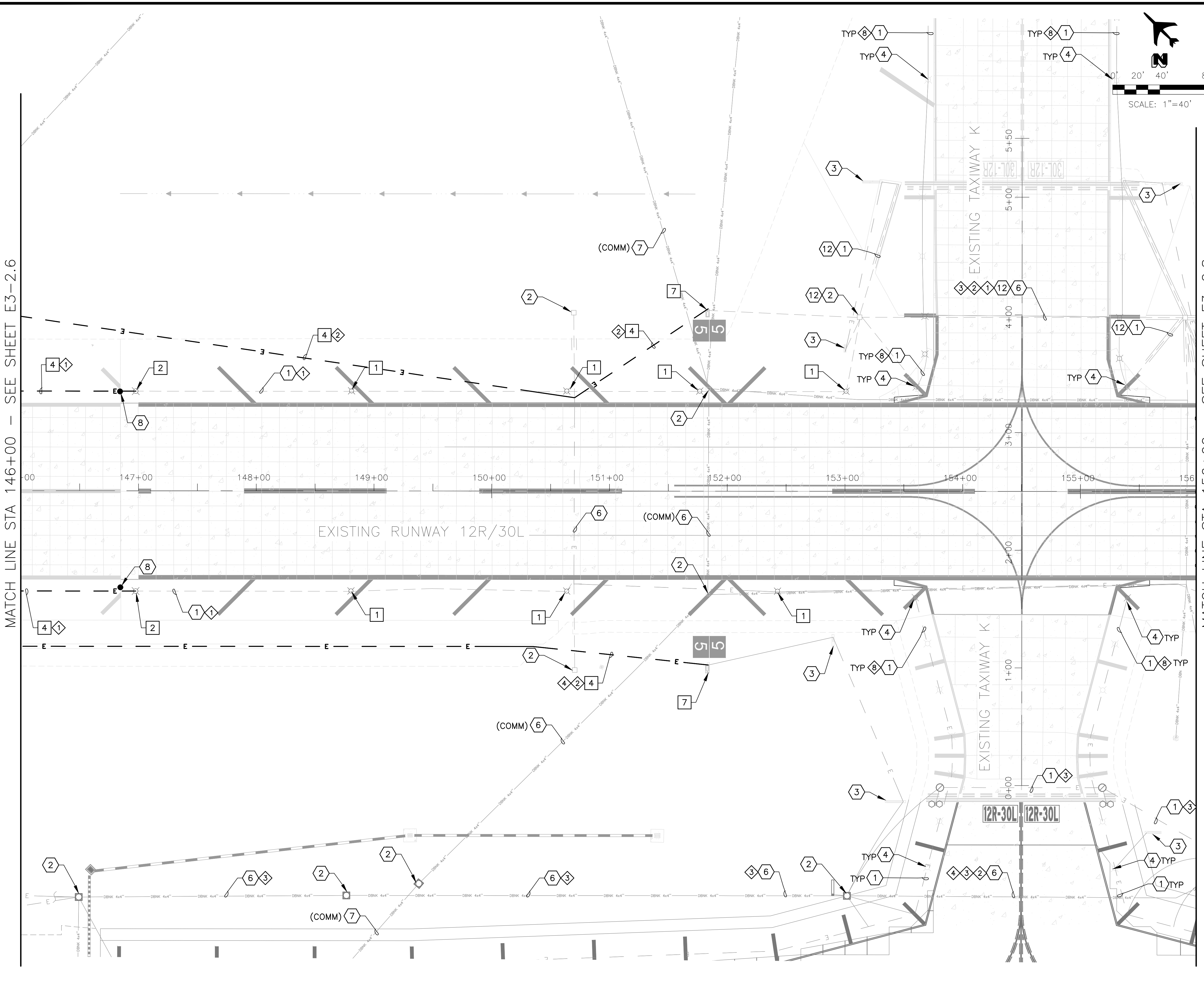
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**

E3-2.6
 SHEET NO.
 148 OF 211

FILE:Q:\PROJECTS\220000\220026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\220026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 18, 2023 TIME:3:55 PM BY:jeff weidman



MATCH LINE STA 146+00 - SEE SHEET E3-2.6

MATCH LINE STA 156+00 - SEE SHEET E3-2.8

REMOVAL NOTE

- 1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 7 EA
- 2 REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE BASE CAN 2 EA
- 4 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR. 1400 LF
- 7 REMOVE AIRFIELD GUIDANCE SIGN AND CONCRETE SIGN BASE. 2 EA

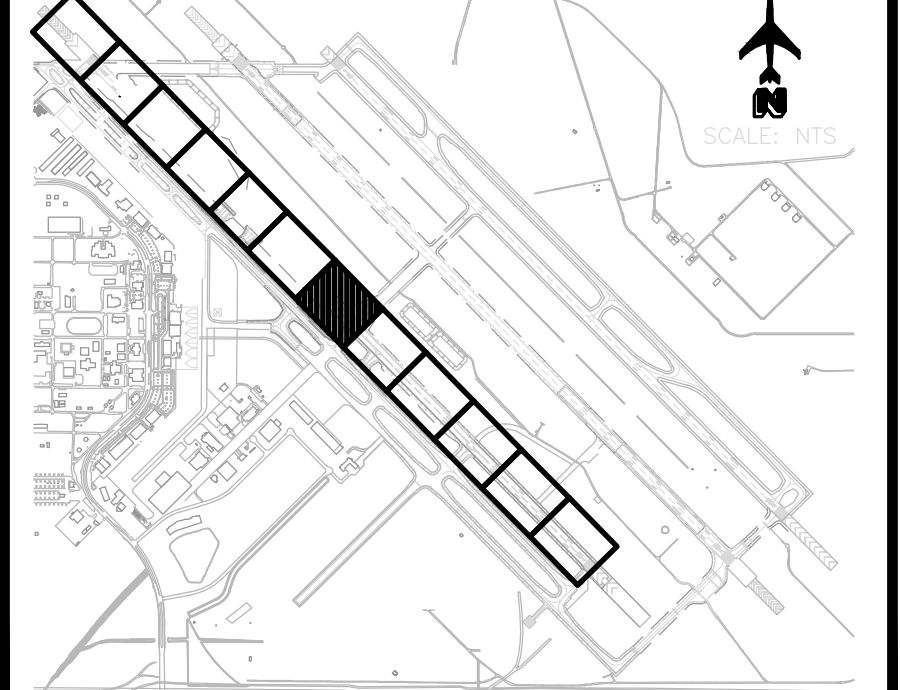
REFERENCE NOTE

- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
- 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
- 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
- 4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
- 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
- 12 WORK ASSOCIATED WITH SCHEDULE II - ADD ALT 1

CIRCUIT IDENTIFICATION

- 1 R1 (RW EDGE LIGHTS)
- 2 R1S (RW SIGNS)
- 3 RGL (RUNWAY GUARD LIGHTS)
- 4 PPN (RW 12R PAPI NORTH)
- 8 TWK (TAXIWAY K)

KEYMAP



CR engineers

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Statewide Utility Location Service
Dial 8-1-1 or 1-800-474-6827 (TDD-8248)
In Maricopa County (602) 253-1100

REV	DATE	DESCRIPTION

DIBBLE

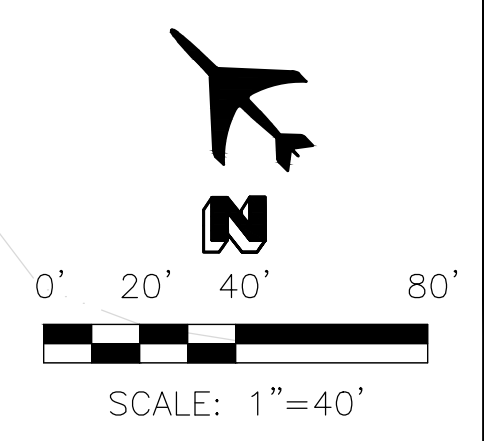
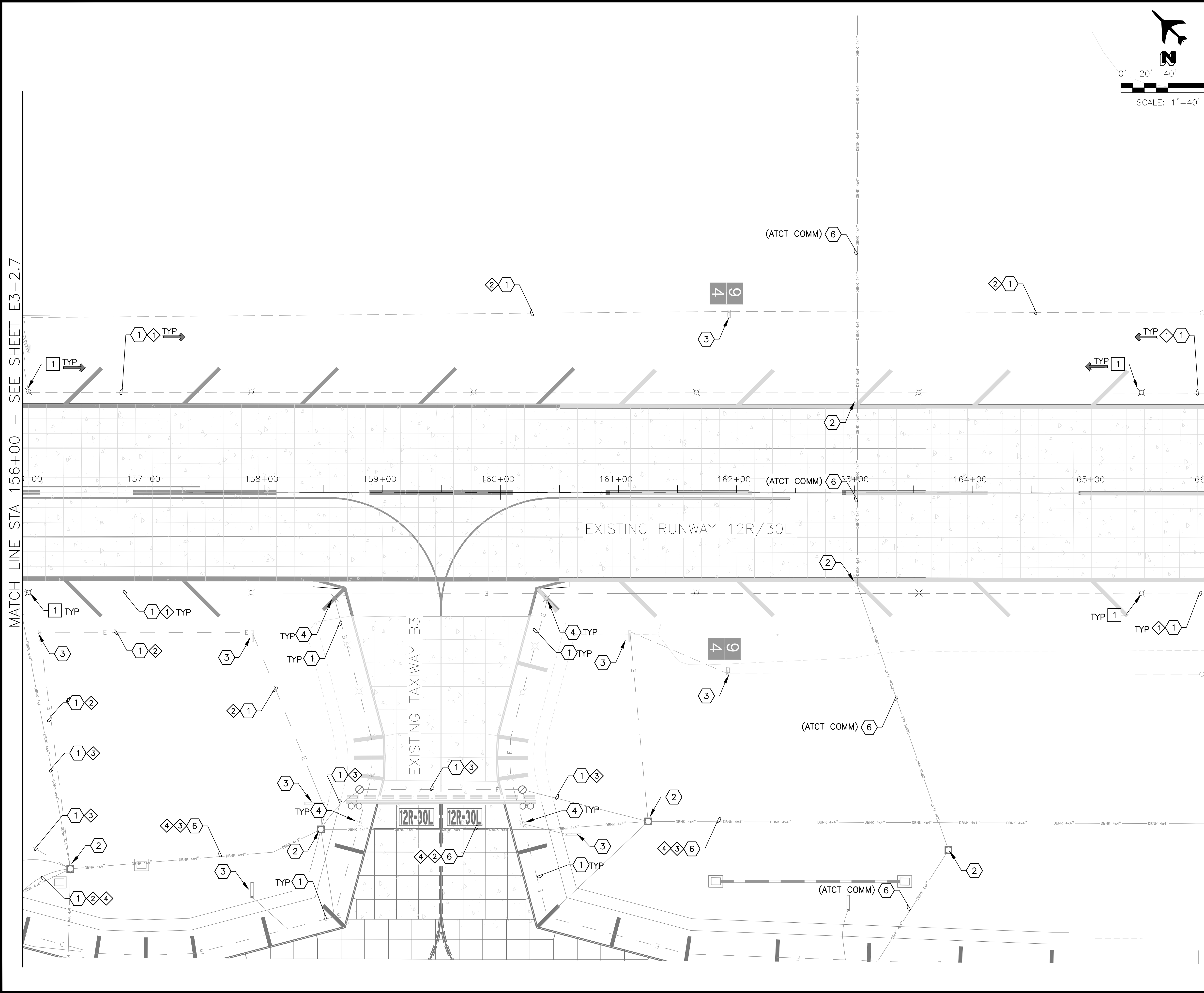
Professional Engineer (Electrical)
 License No. 12345
 JESSIE CATHERINE ALDRINE
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

Phoenix-Mesa Gateway Airport

**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
DEMOLITION**

FILE Q:\PROJECTS\220000\220206 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\220206 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE: April 18, 2023 TIME: 3:58 PM BY: jeff weidman

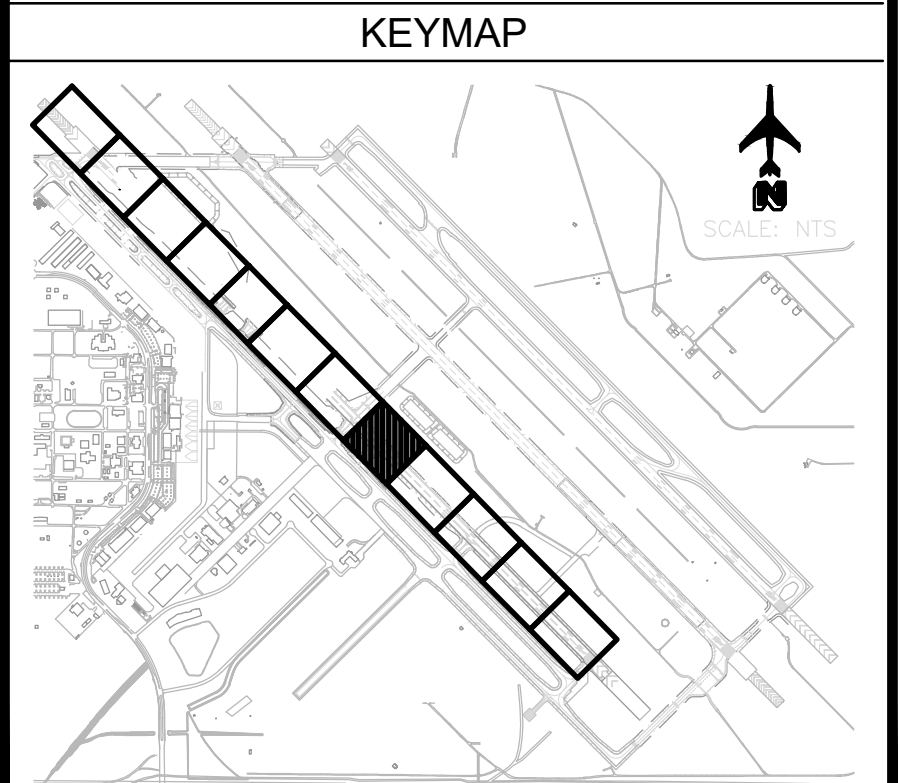


REMOVAL NOTE
1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 11 EA

REFERENCE NOTE
1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

CIRCUIT IDENTIFICATION
1 R1 (RW EDGE LIGHTS)
2 R1S (RW SIGNS)
3 RGL (RUNWAY GUARD LIGHTS)
4 PPN (RW 12R PAPI NORTH)

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



CR engineers

Call at least two full working days before you begin excavation.

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1-800-874-ARIZONA (274-7626)
in Maricopa County (602) 253-1100

REV	DATE	DESCRIPTION

DIBBLE

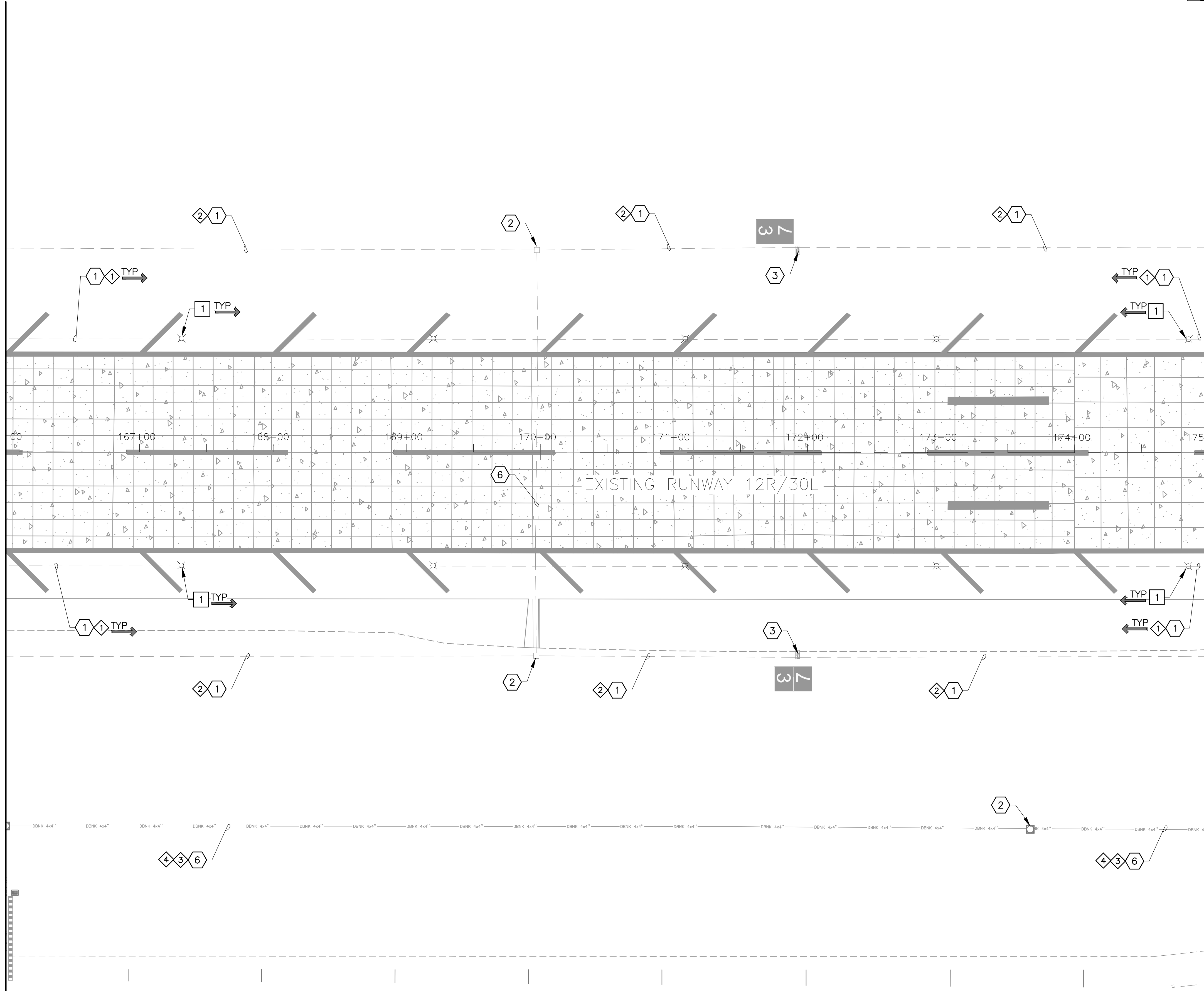
Professional Engineer (Electrical)
No. 18888
Catherine Alcorn
Phoenix, AZ

Phoenix-Mesa Gateway Airport

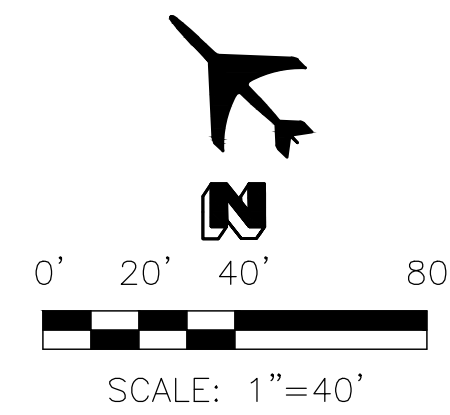
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
DEMOLITION**

FILE:G:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 20, 2023 TIME:2:55 PM BY:julio andrino

MATCH LINE STA 165+00 - SEE SHEET E3-2.8



MATCH LINE STA 175+00 - SEE SHEET E3-2.10

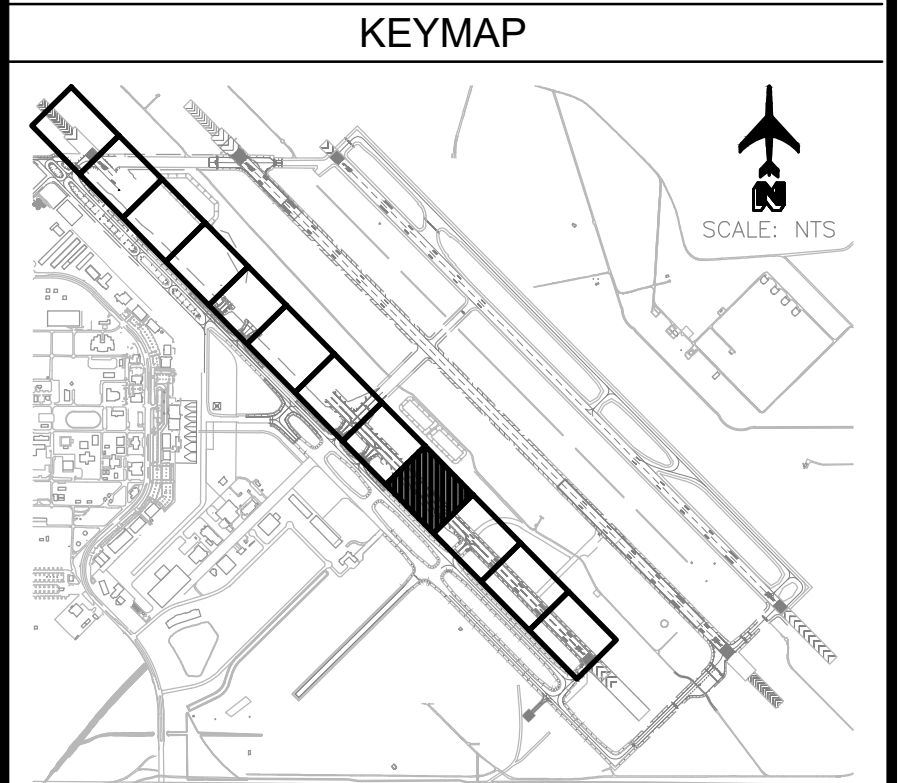


REV	DATE	DESCRIPTION

- REMOVAL NOTE**
- 1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 10 EA
- REFERENCE NOTE**
- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
 - 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
 - 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
 - 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

- CIRCUIT IDENTIFICATION**
- 1 R1 (RW EDGE LIGHTS)
 - 2 R1S (RW SIGNS)
 - 3 RGL (RUNWAY GUARD LIGHTS)
 - 4 PPN (RW 12R PAPI NORTH)

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



CR engineers

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ARIZONA 811
 (800) 4-A-ROOT
 In Maricopa County: (602) 963-1100

REV	DATE	DESCRIPTION

DIBBLE

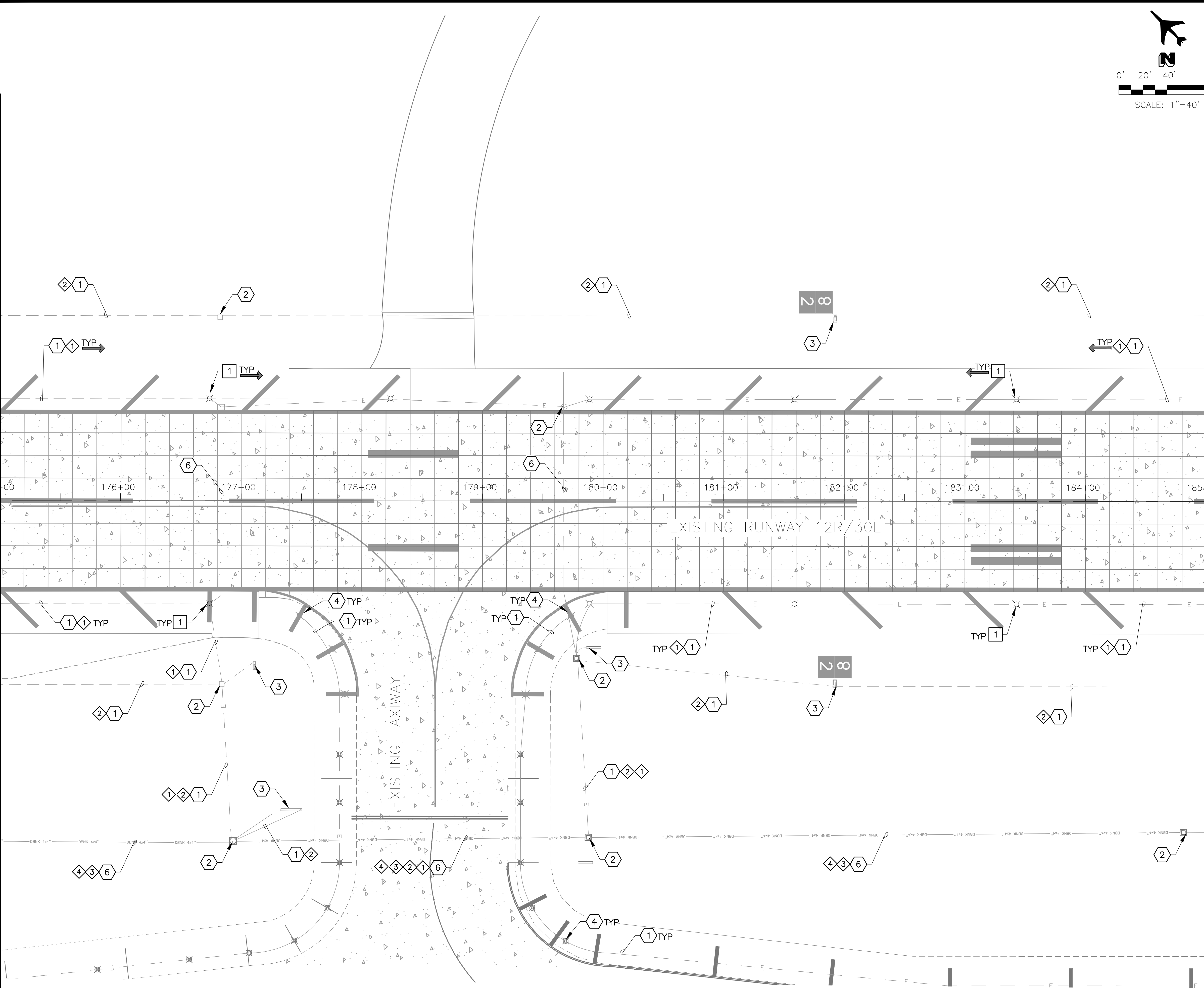
Professional Engineer (Electrical)
 License No. 25896
 CATHERINE ALDRON
 State of Arizona

Phoenix-Mesa Gateway Airport

**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**

FILE:G:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 20, 2023 TIME:2:58 PM BY:julio andrino

MATCH LINE STA 175+00 - SEE SHEET E3-2.9

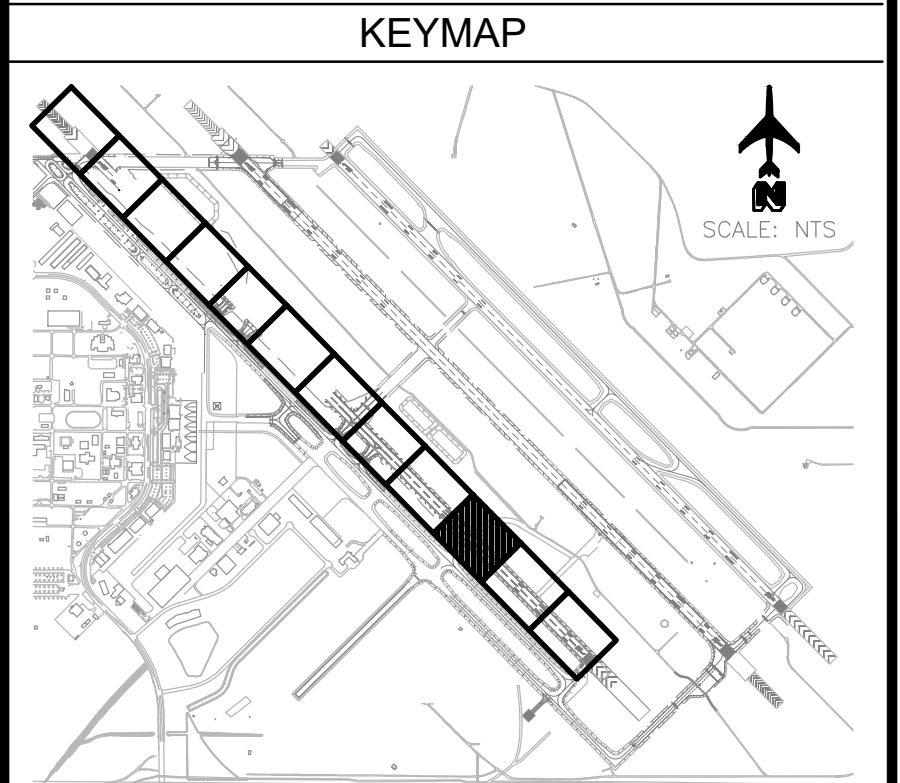


MATCH LINE STA 185+00 - SEE SHEET E3-2.11

- REMOVAL NOTE**
- 1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 9 EA

- REFERENCE NOTE**
- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
 - 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
 - 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
 - 4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
 - 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

- CIRCUIT IDENTIFICATION**
- 1 R1 (RW EDGE LIGHTS)
 - 2 R1S (RW SIGNS)
 - 3 RGL (RUNWAY GUARD LIGHTS)
 - 4 PPN (RW 12R PAPI NORTH)



REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 28696
 CATHERINE ALDRON
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



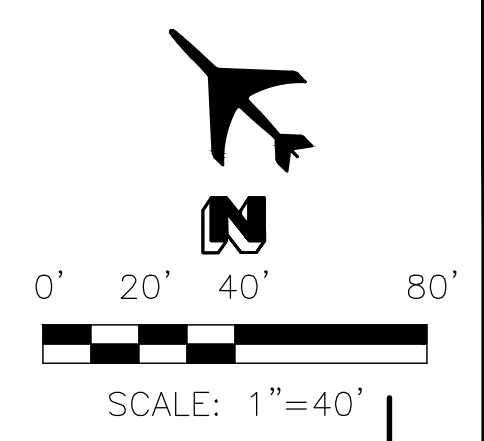
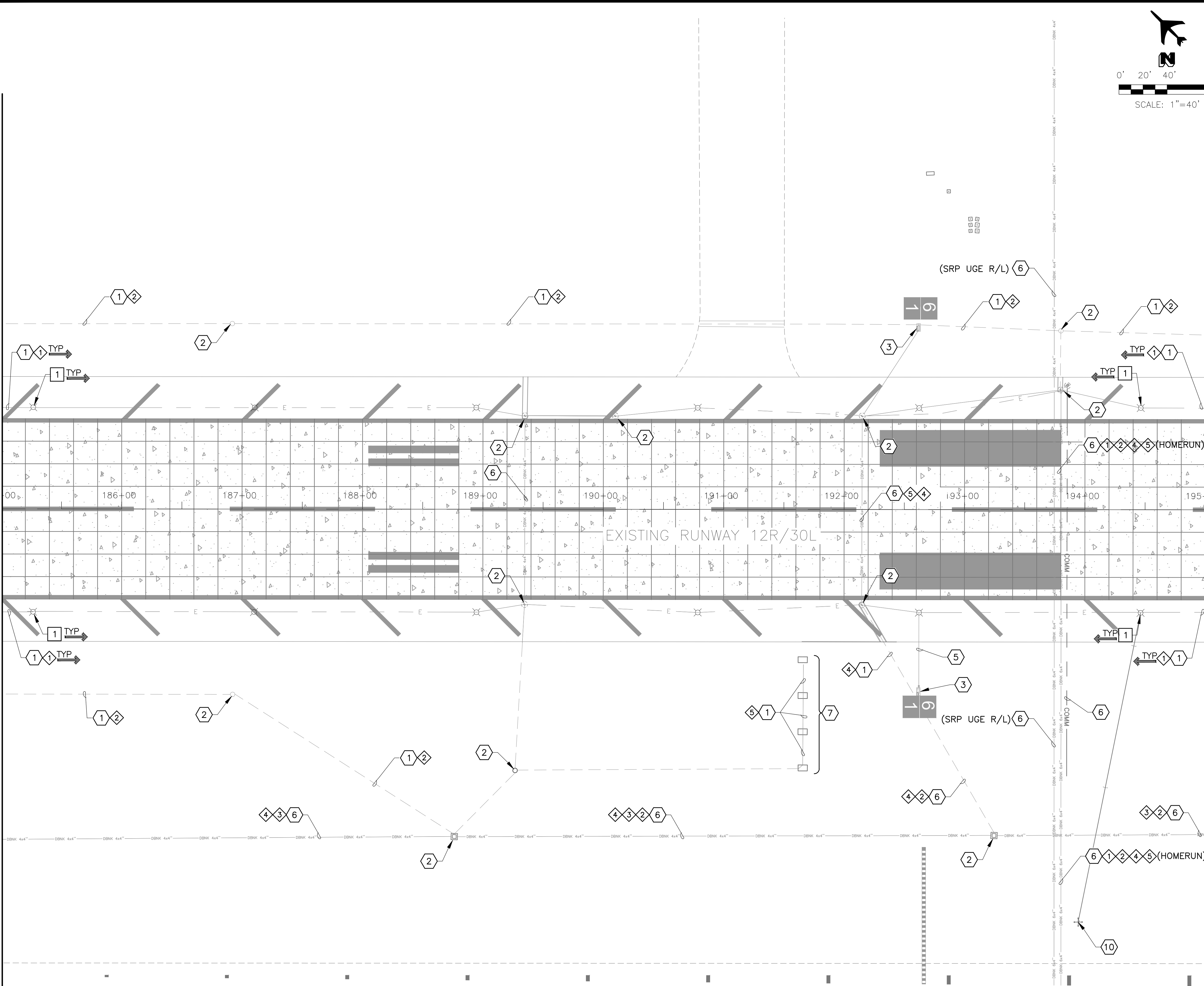
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**

CR engineers

Call at least two full working days before you begin excavation
ARIZONA 811
 (800) 485-8111
 Dial 8-1-1 or 1-800-874-8111 (TDD-8348)
 in Maricopa County (602) 253-1100

FILE:G:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE: April 20, 2023 TIME: 3:28 PM BY: julio.andrino

MATCH LINE STA 185+00 - SEE SHEET E3-2.10



MATCH LINE STA 195+00 - SEE SHEET E3-2.12

REMOVAL NOTE

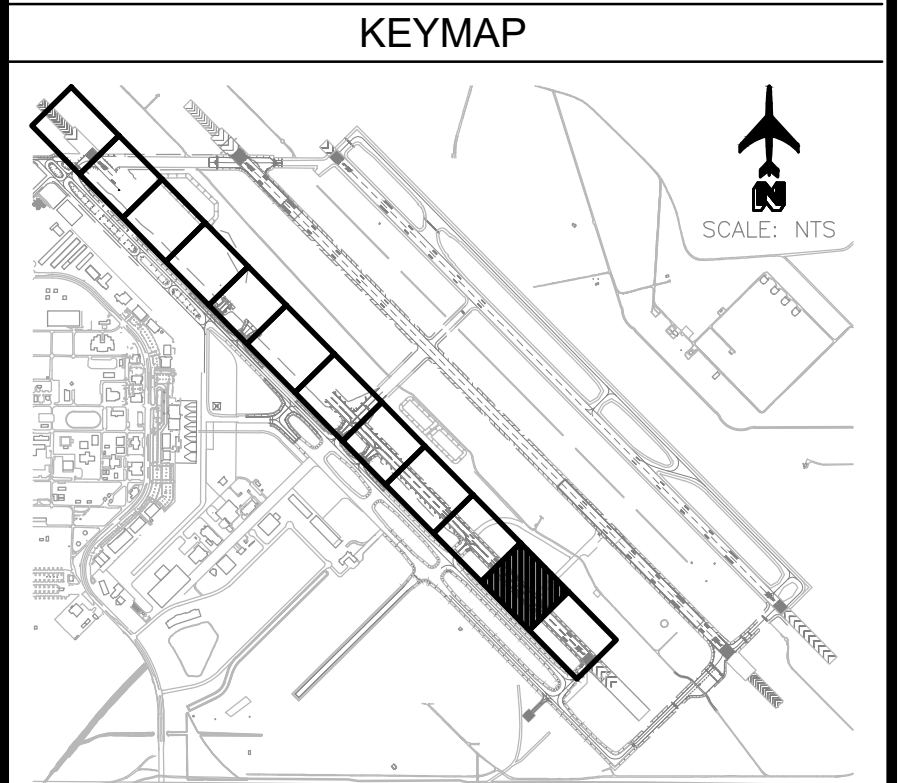
1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 12 EA

REFERENCE NOTE

1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
 4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE
 7 EXISTING PAPI TO REMAIN - PROTECT IN PLACE

CIRCUIT IDENTIFICATION

1 R1 (RW EDGE LIGHTS)
 2 R1S (RW SIGNS)
 3 RGL (RUNWAY GUARD LIGHTS)
 4 PPN (RW 12R PAPI NORTH)
 5 PPS (RW 30L PAPI SOUTH)



REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 15898
 CATHERINE ALDRIN
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



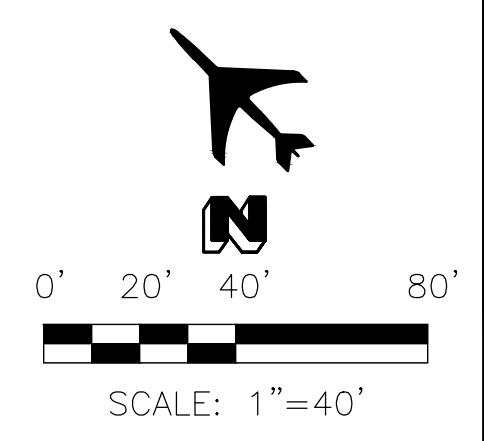
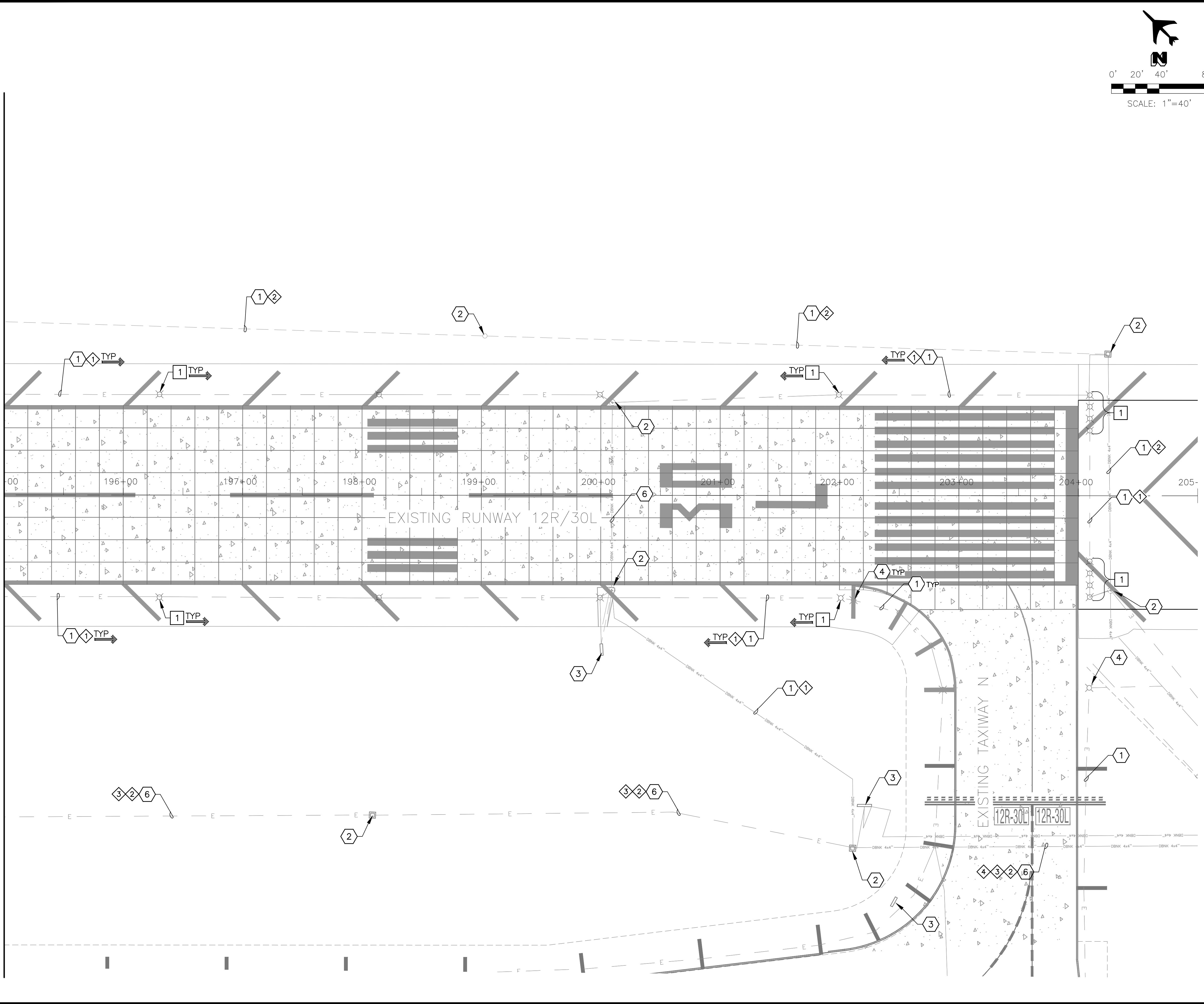
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**

CR engineers

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ARIZONA 811
 (800) 488-8111
 Help 8-1-1 or 1-800-874-8111 (TDD-8348)
 In Maricopa County: (602) 963-1100

FILE:Q:\PROJECTS\220000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHETS\ADD ALT 2\22026 E3-2.1-E3-2.12 DEMOLITION A2.dwg DATE:April 18, 2023 TIME:4:09 PM BY:jeff weidman

MATCH LINE STA 195+00 - SEE SHEET E3-2.11



REV	DATE	DESCRIPTION

- REMOVAL NOTE**
- 1 REMOVE AND SALVAGE EXISTING ELEVATED EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN. INSTALL TEMPORARY BLANK COVER. 16 EA
- REFERENCE NOTE**
- 1 EXISTING CONDUIT AND CONDUCTOR TO REMAIN - PROTECT IN PLACE.
 - 2 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE.
 - 3 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE.
 - 4 EXISTING ELEVATED LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE.
 - 6 EXISTING DUCTBANK TO REMAIN - PROTECT IN PLACE

- CIRCUIT IDENTIFICATION**
- 1 R1 (RW EDGE LIGHTS)
 - 2 R1S (RW SIGNS)
 - 3 RGL (RUNWAY GUARD LIGHTS)

KEYMAP

CR engineers

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REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 12345
 Catherine Alcorn

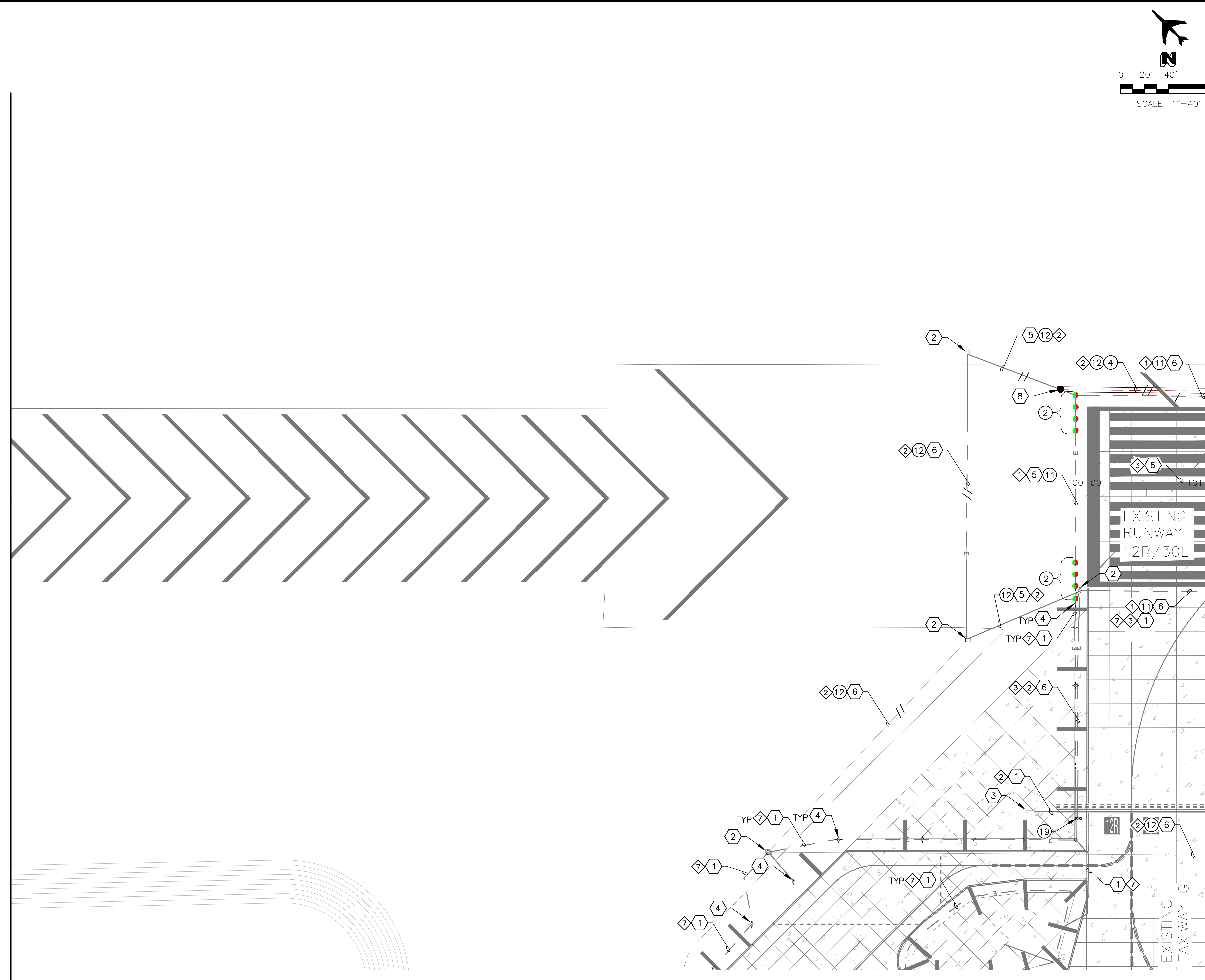
DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 DEMOLITION**

E3-2.12

SHEET NO.
154 OF 211

FILE:Q:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A&Z.dwg DATE:April 18, 2023 TIME:4:13 PM BY:jeff weidman

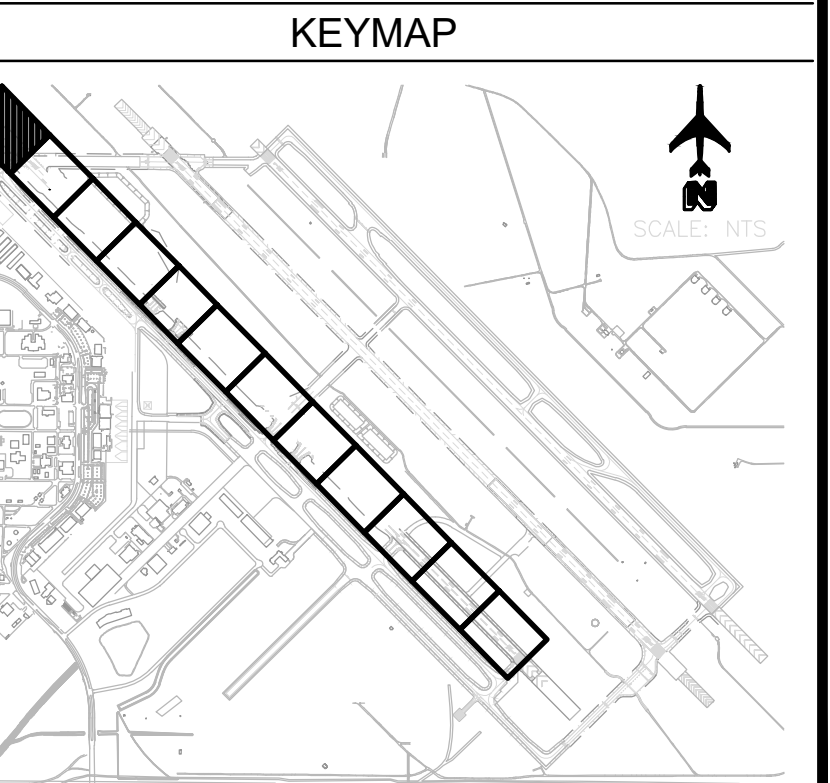


MATCH LINE STA 101+00 - SEE SHEET E3-3.2

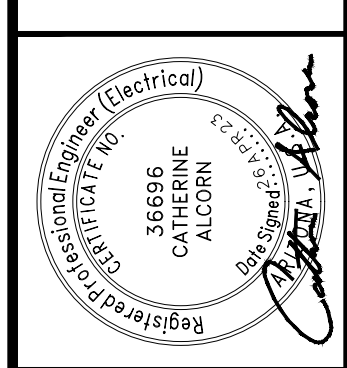
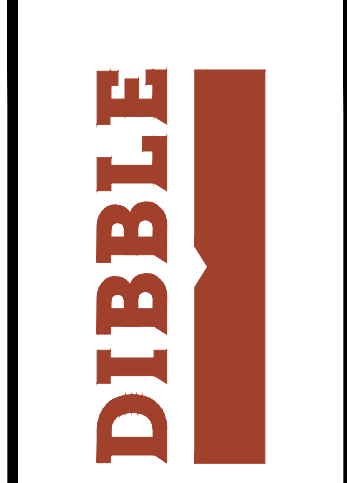
- CONSTRUCTION NOTES ○
- ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 8 EA
 - ④ NEW 1-2"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 125 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 400 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 1200 LF
 - ⑲ INSTALL NEW L-804(L) LED ELEVATED RUNWAY GUARD LIGHT WITH ON/OFF SWITCH ON EXISTING BASE CAN. 1 EA

- REFERENCE NOTE ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ⑦ TA2 (TAXIWAY G)



REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



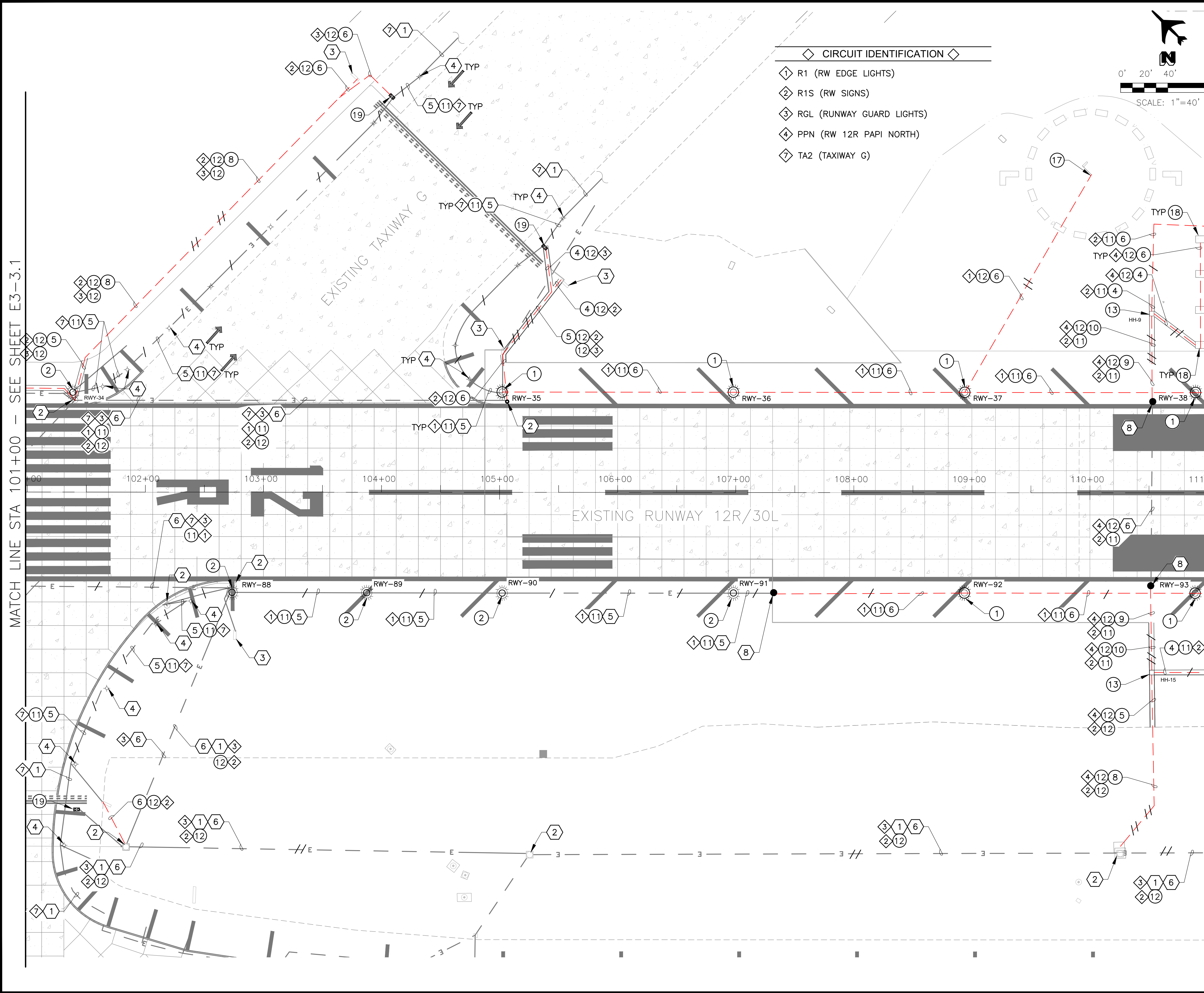
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
INSTALLATION**

CR engineers

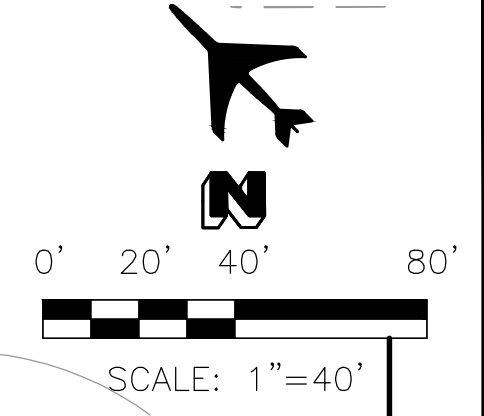
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Dist 6-1 or 1-800-874-8111 (TDD) (202-5348)
In Maricopa County (602) 263-1100

FILE:G:\PROJECTS\22000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A42.dwg DATE:April 20, 2023 TIME:3:42 PM BY:Julio andrino



- CIRCUIT IDENTIFICATION**
- 1 R1 (RW EDGE LIGHTS)
 - 2 R1S (RW SIGNS)
 - 3 RGL (RUNWAY GUARD LIGHTS)
 - 4 PPN (RW 12R PAPI NORTH)
 - 7 TA2 (TAXIWAY G)



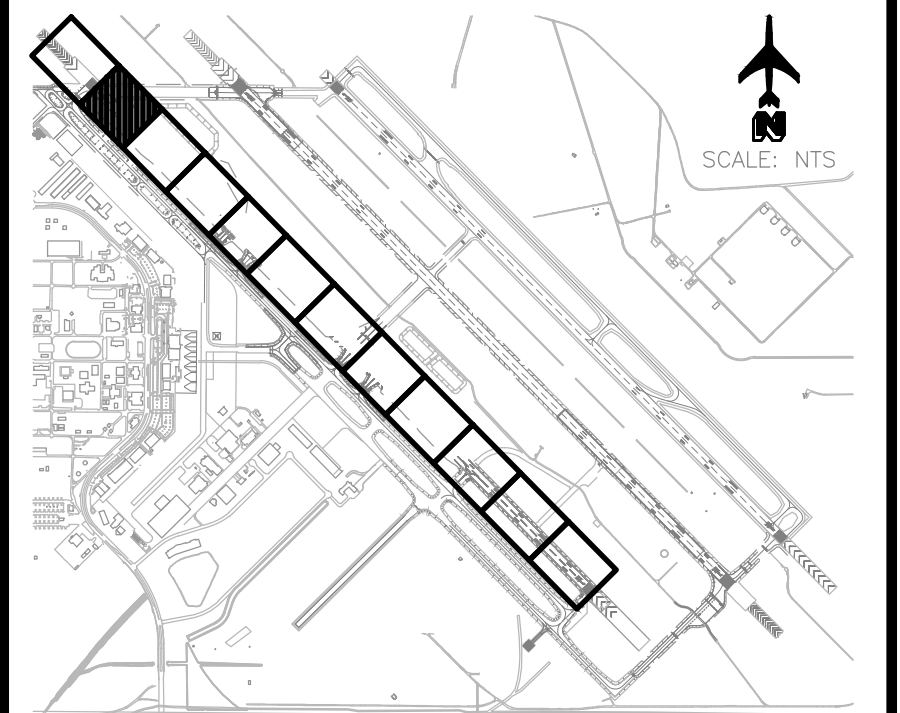
CONSTRUCTION NOTES

- 1 INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 6 EA
- 2 INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 5 EA
- 4 NEW 1-2"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 200 LF
- 5 NEW 2-2"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 175 LF
- 6 NEW 1-2"C - SE 1500 LF
- 8 NEW 2-2"C - SE 450 LF
- 9 NEW 4-4"C - SE 70 LF
- 10 NEW 4-4"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 85 LF
- 11 NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 3450 LF
- 12 NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 2850 LF
- 13 NEW 4'x4'x4" AIRCRAFT-RATED HANDHOLE AND LID WITH SPRING ASSISTED OPENING 2 EA
- 17 NEW L-806(L) LED WINDCONE ON NEW CONCRETE FOUNDATION 1 EA
- 18 EXISTING PAPI WITH NEW ISOLATION TRANSFORMER, LAMPS AND HARDWARE ON NEW FOUNDATION. 4 EA
- 19 INSTALL NEW L-804(L) LED ELEVATED RUNWAY GUARD LIGHT WITH ON/OFF SWITCH ON EXISTING BASE CAN. 3 EA

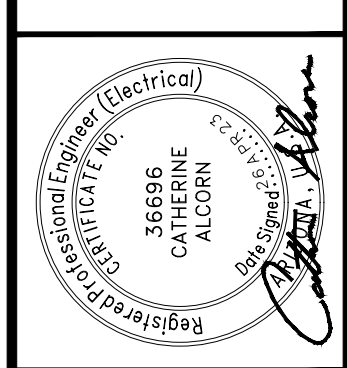
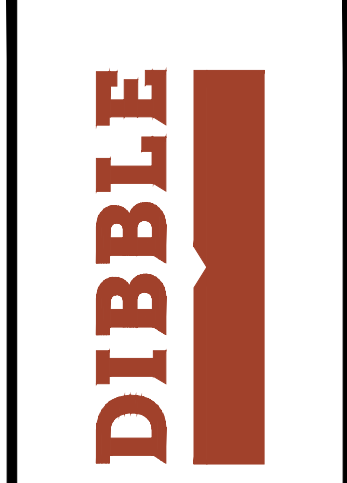
REFERENCE NOTES

- 1 EXISTING CONDUIT AND CONDUCTOR
- 2 EXISTING HANDHOLE
- 3 EXISTING AIRFIELD GUIDANCE SIGN
- 4 EXISTING ELEVATED LIGHT FIXTURE
- 5 EXISTING CONDUIT
- 6 EXISTING DUCTBANK
- 7 EXISTING PAPI
- 8 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

KEYMAP



REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



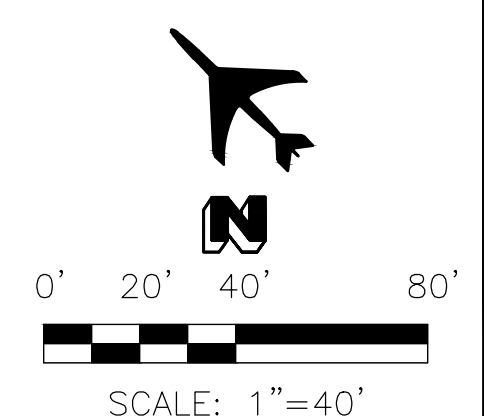
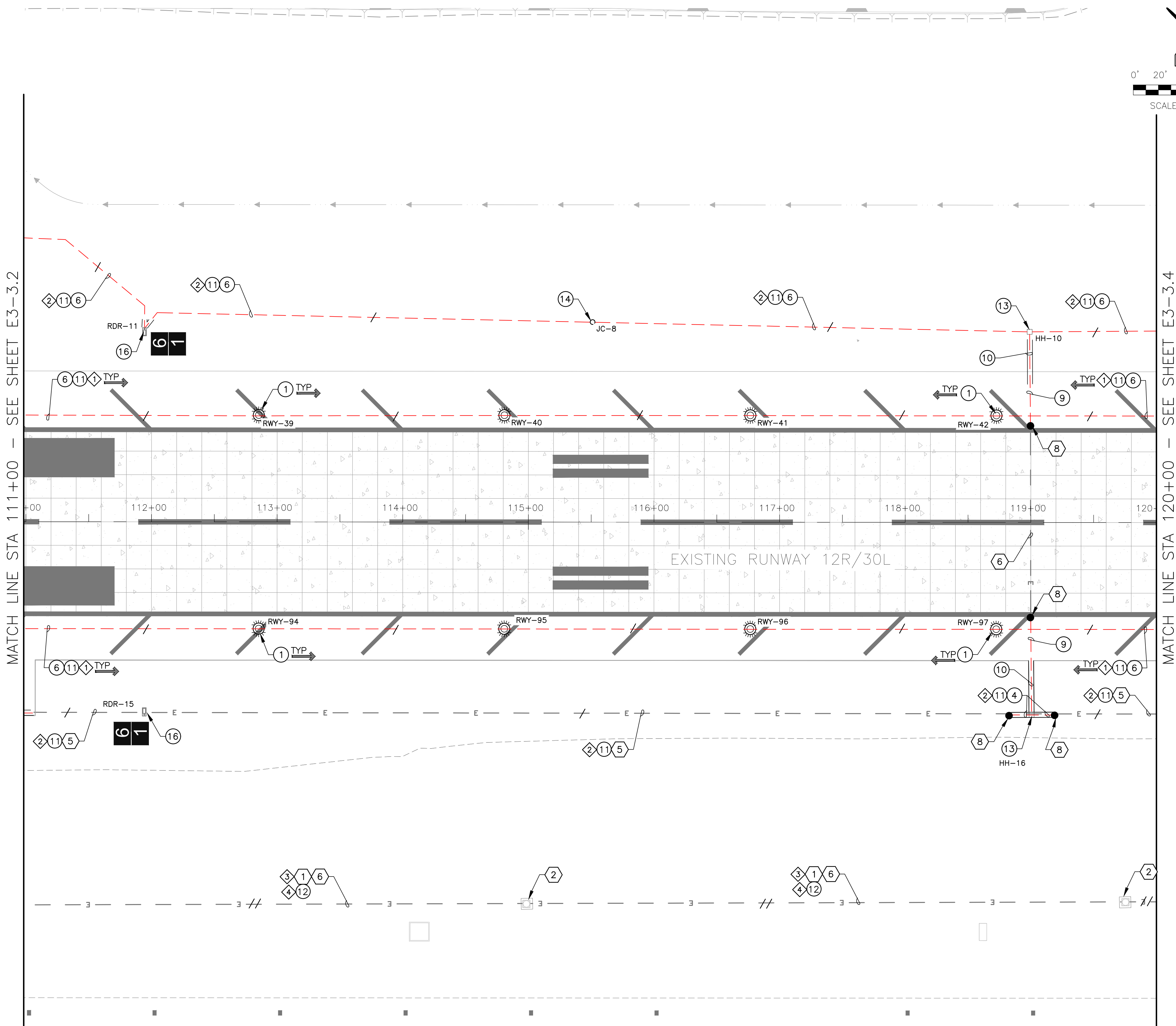
**RUNWAY 12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
INSTALLATION**

CR engineers

Call at least two full working days before you begin excavation.

ARIZONA 811
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Call 8-1-1 or 1-800-874-8287
in Maricopa County (602) 962-1100

FILE:Q:\PROJECTS\22000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A&Z.dwg DATE:April 18, 2023 TIME:4:17 PM BY:jeff weidman



○ CONSTRUCTION NOTES ○

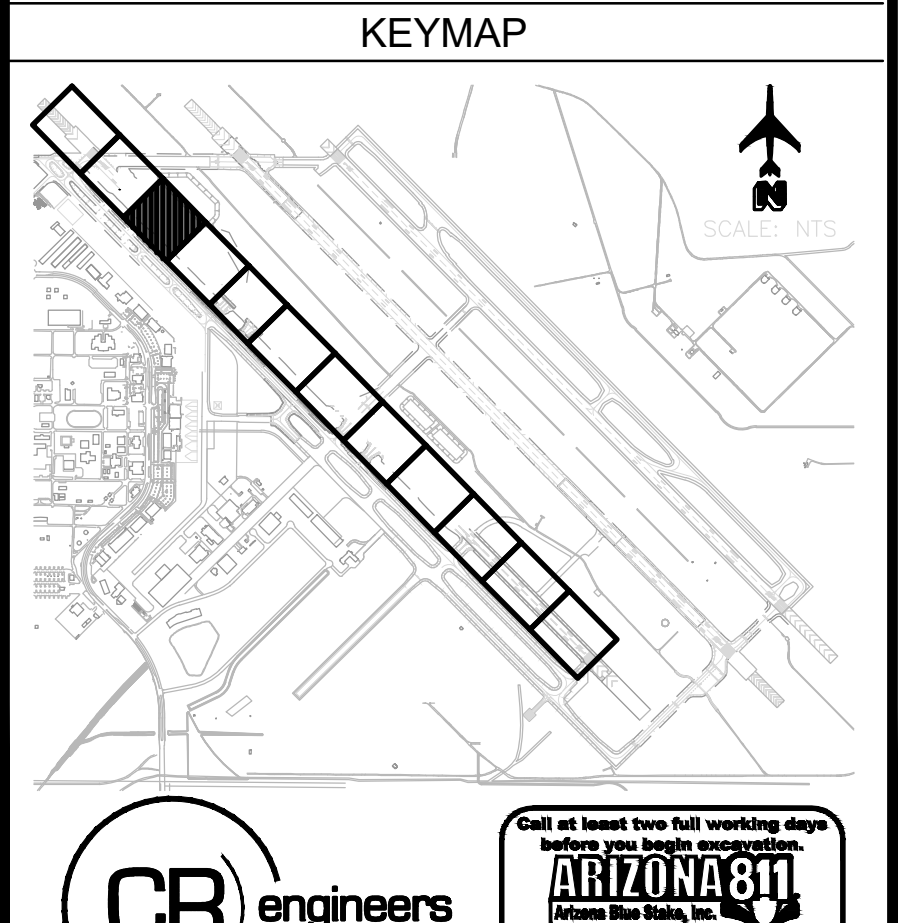
1	INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE.	8 EA
4	NEW 1-2"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT	50 LF
6	NEW 1-2"C - SE	2760 LF
9	NEW 4-4"C - SE	75 LF
10	NEW 4-4"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT	90 LF
11	NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE.	3760 LF
12	NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE.	930 LF
13	NEW 4'x4'x4' AIRCRAFT-RATED HANDHOLE AND LID WITH SPRING ASSISTED OPENING	2 EA
14	NEW L-867E (24" DIA) JUNCTION CAN	1 EA
16	INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE	2 EA

◇ REFERENCE NOTES ◇

1	EXISTING CONDUIT AND CONDUCTOR
2	EXISTING HANDHOLE
5	EXISTING CONDUIT
6	EXISTING DUCTBANK
8	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

◇ CIRCUIT IDENTIFICATION ◇

1	R1 (RW EDGE LIGHTS)
2	R1S (RW SIGNS)
3	RGL (RUNWAY GUARD LIGHTS)
4	PPN (RW 12R PAPI NORTH)



REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 12345
 JESSIE CATHERINE ALDRON
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY 12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

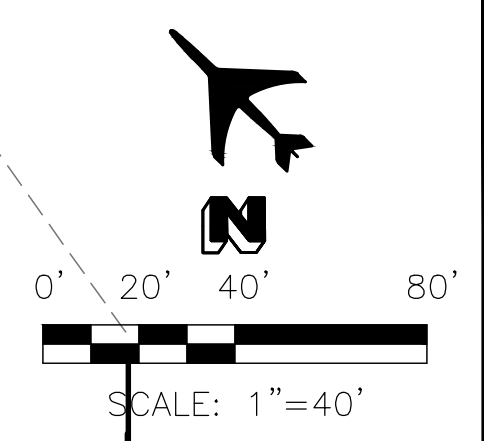
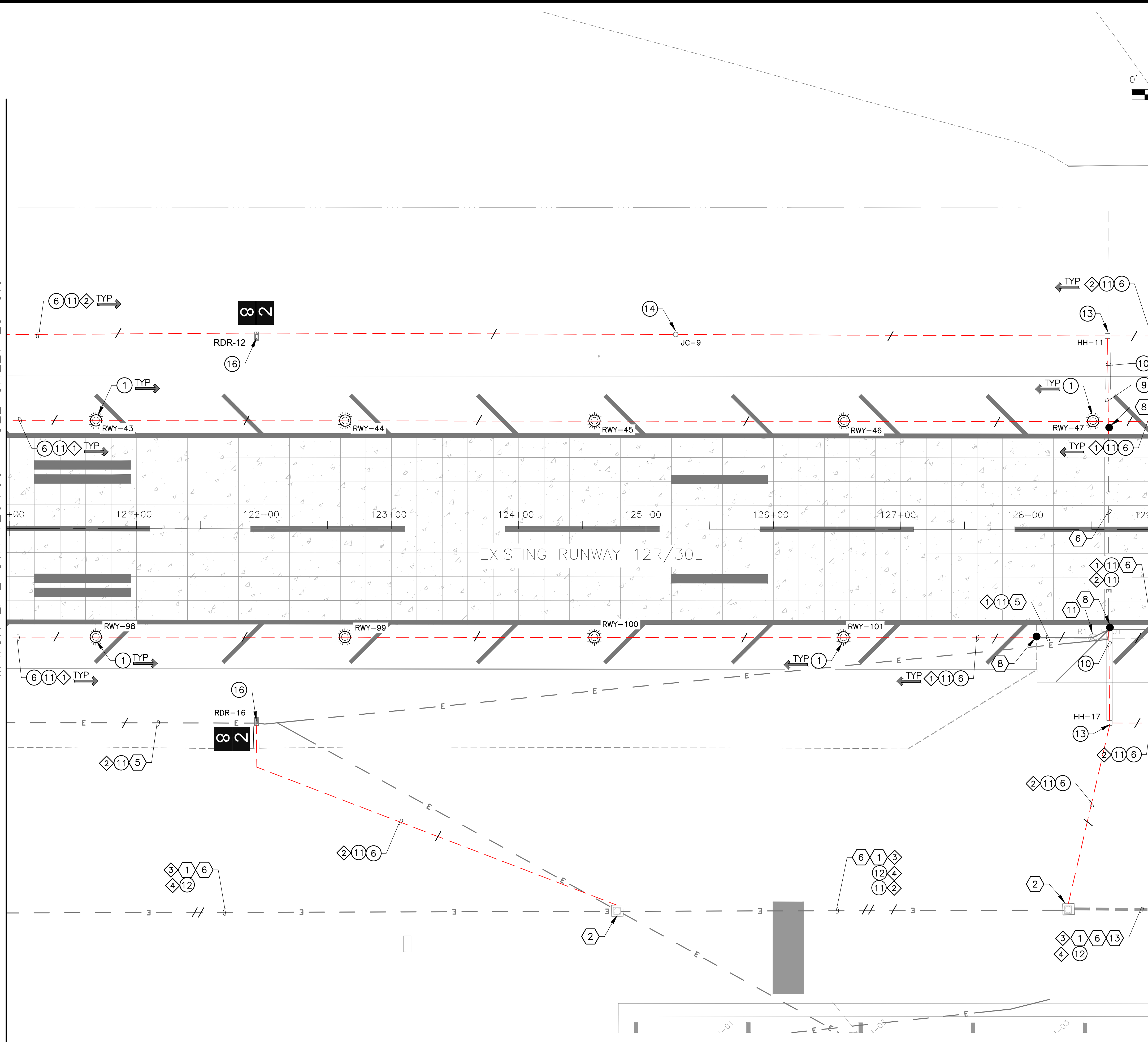
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 (800) 488-8748
 In Maricopa County (602) 253-1100

FILE G:\PROJECTS\220000\22026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A42.dwg DATE: April 20, 2023 TIME: 4:04 PM BY: julio.andrino

MATCH LINE STA 120+00 - SEE SHEET E3-3.3

MATCH LINE STA 129+00 - SEE SHEET E3-3.5



CONSTRUCTION NOTES

- 1 INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 10 EA
- 4 NEW 1-2"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 25 LF
- 6 NEW 1-2"C - SE 3120 LF
- 9 NEW 4-4"C - SE 40 LF
- 10 NEW 4-4"C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 120 LF
- 11 NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 3100 LF
- 12 NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 930 LF
- 13 NEW 4'x4'x4' AIRCRAFT-RATED HANDHOLE AND LID WITH SPRING ASSISTED OPENING 2 EA
- 14 NEW L-867E (24" DIA) JUNCTION CAN 1 EA
- 16 INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE 2 EA

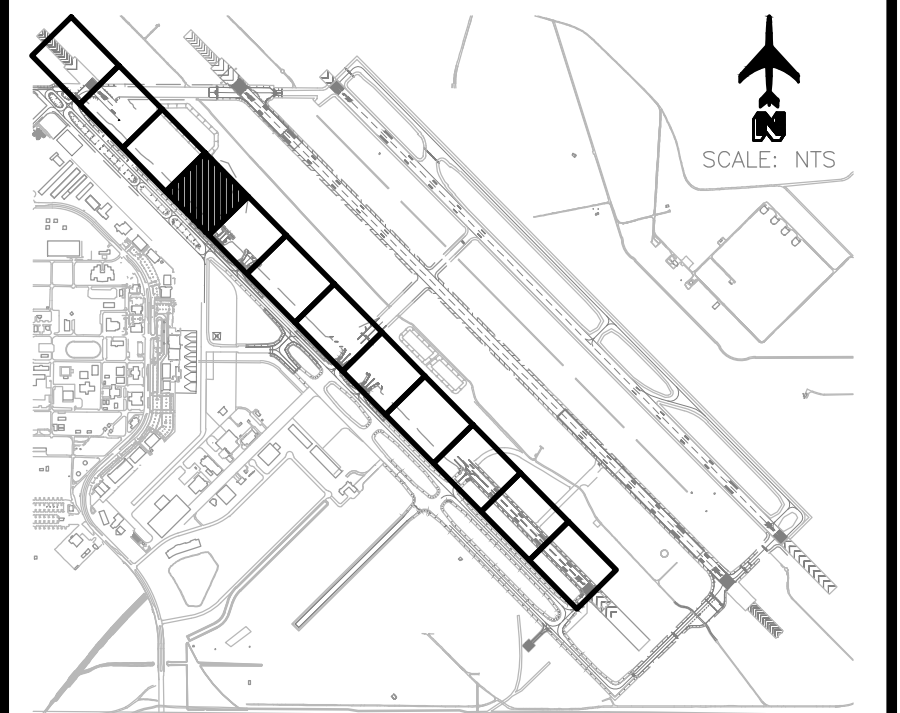
REFERENCE NOTES

- 1 EXISTING CONDUIT AND CONDUCTOR
- 2 EXISTING HANDHOLE/PULL BOX
- 5 EXISTING CONDUIT
- 6 EXISTING DUCTBANK
- 8 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
- 13 REFER TO ADD ALT 2 SCHEDULE IV ELECTRICAL DEMOLITION SHEETS E4-1.1 TO E4-1.2

CIRCUIT IDENTIFICATION

- 1 R1 (RW EDGE LIGHTS)
- 2 R1S (RW SIGNS)
- 3 RGL (RUNWAY GUARD LIGHTS)
- 4 PPN (RW 12R PAPI NORTH)

KEYMAP



CR engineers

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona's One-Call System

811 or 1-800-874-8111
in Maricopa County (602) 965-1100

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 15896
 CATHERINE ALDRON
 State of Arizona

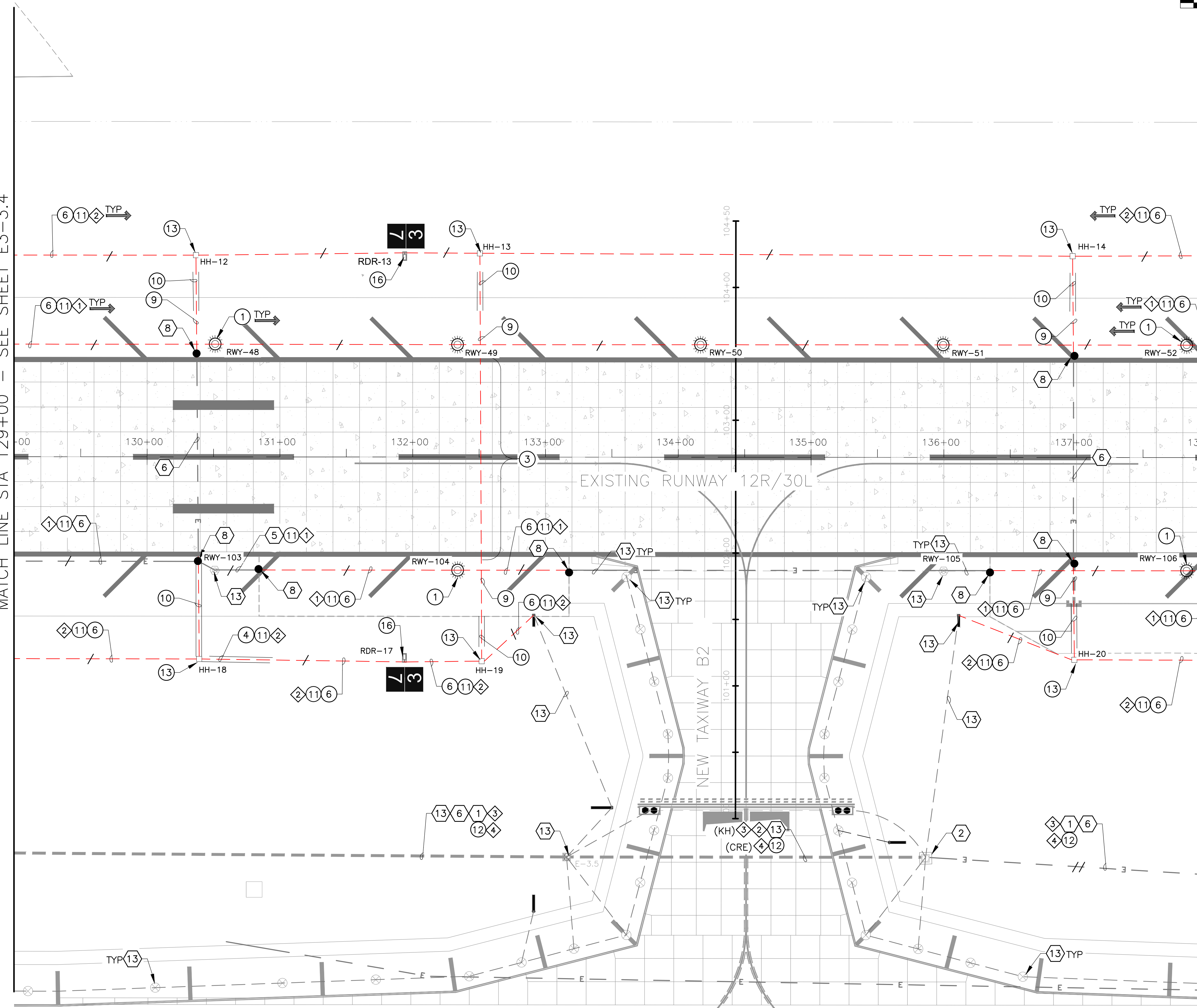
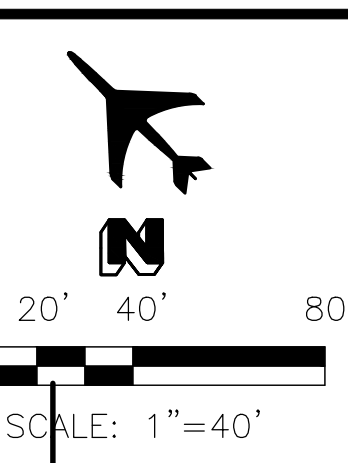
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

Phoenix-Mesa
Gateway
 Airport

**RUNWAY 12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

FILE:G:\PROJECTS\22000\22026 PINGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A&Z.dwg DATE:April 25, 2023 TIME:12:23 PM BY:julio andrino

MATCH LINE STA 129+00 - SEE SHEET E3-3.4

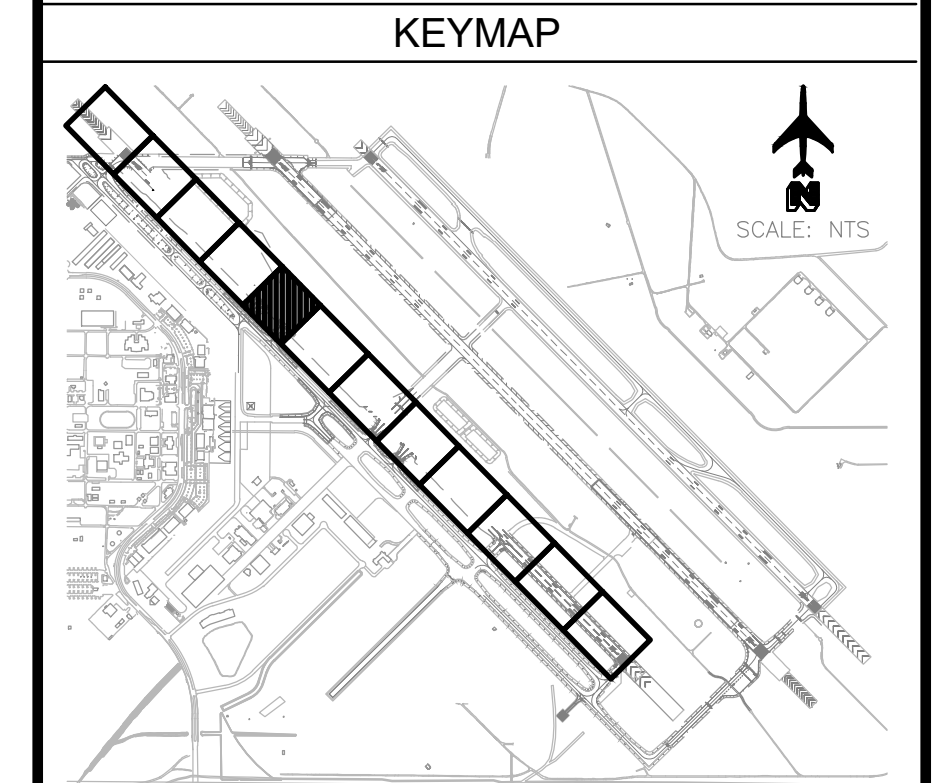
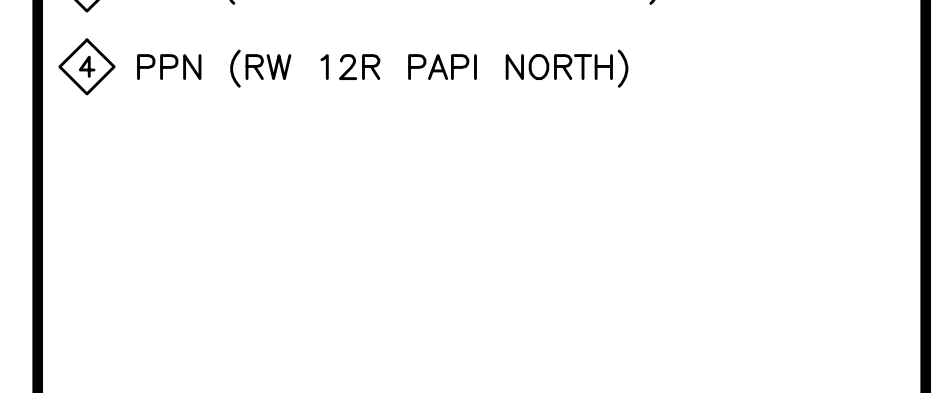


MATCH LINE STA 138+00 - SEE SHEET E3-3.6

- CONSTRUCTION NOTES ○
- ① INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 7 EA
 - ③ NEW 4-4°C - CONCRETE ENCASED 160 LF
 - ④ NEW 1-2°C - SE RETROFIT IN EXISTING ASPHALT PAVEMENT 60 LF
 - ⑥ NEW 1-2°C - SE 2810 LF
 - ⑨ NEW 4-4°C - SE 180 LF
 - ⑩ NEW 4-4°C - SE RETROFIT IN EXISTING ASPHALT 280 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 3140 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 930 LF
 - ⑬ NEW 4' X 4' X 4' AIRCRAFT RATED HANDHOLE AND LID WITH SPRING ASSISTED OPENING. 6 EA
 - ⑯ NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE. 2 EA

- REFERENCE NOTES ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE
 - ⑥ EXISTING DUCTBANK
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
 - ⑬ REFER TO ADD ALT 2 SCHEDULE IV ELECTRICAL DEMOLITION SHEETS E4-2.1 TO E4-2.2

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)

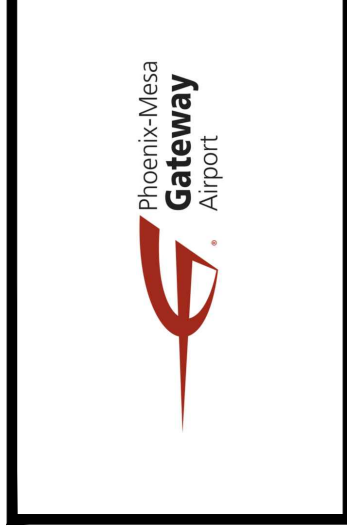


REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 15896
 CATHERINE ALDRIN
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

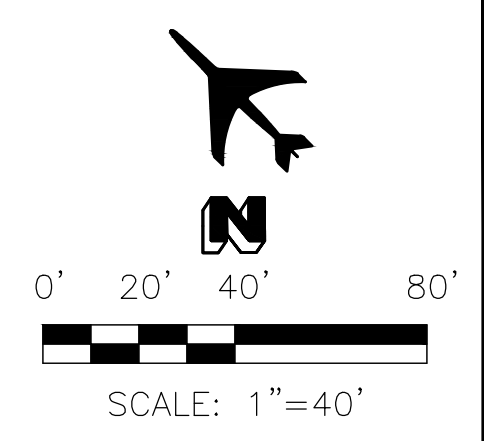
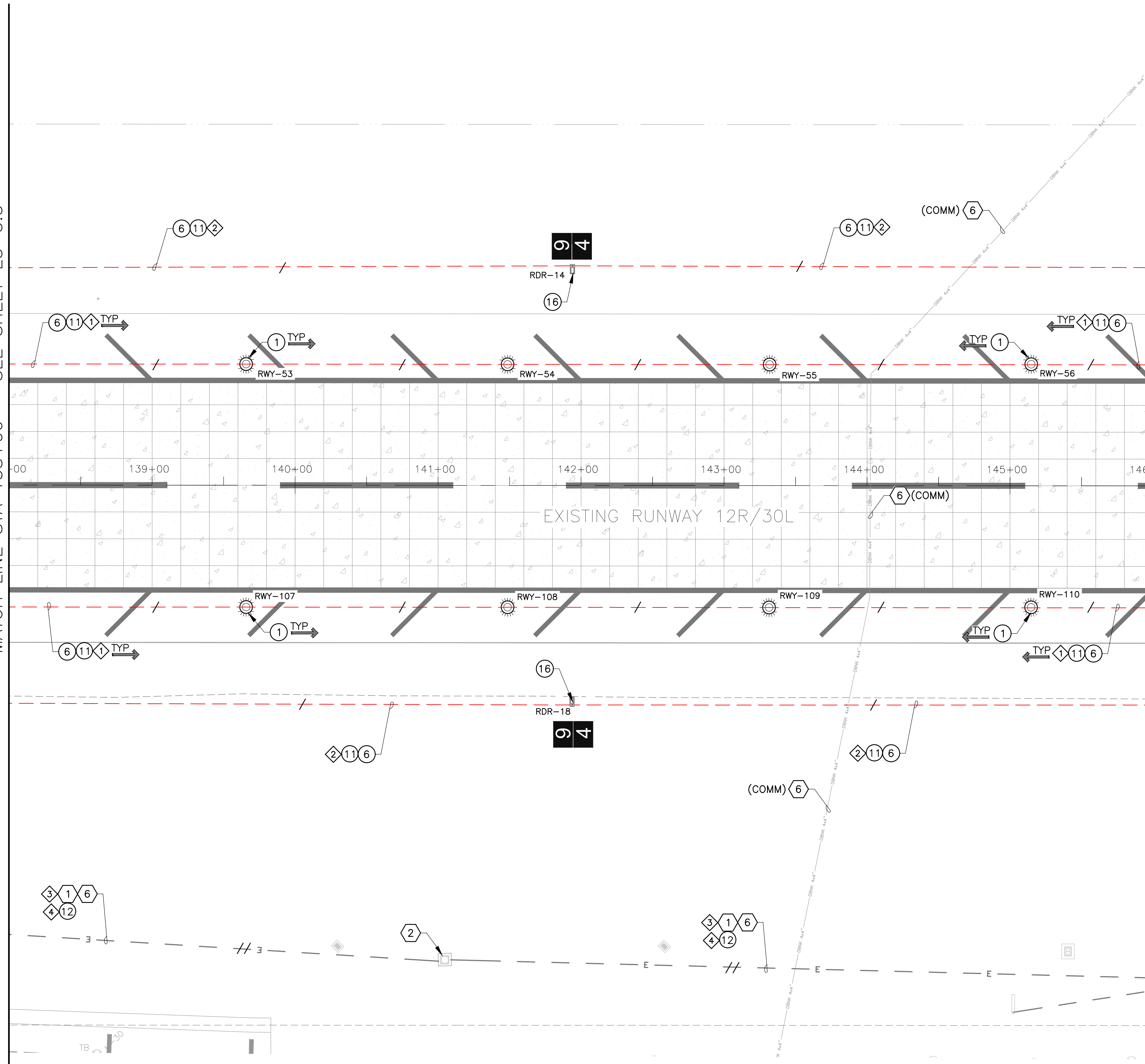


**RUNWAY 12R-30L RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

FILE:G:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A42.dwg DATE:April 20, 2023 TIME:4:39 PM BY:Julio Andriano

MATCH LINE STA 138+00 - SEE SHEET E3-3.5

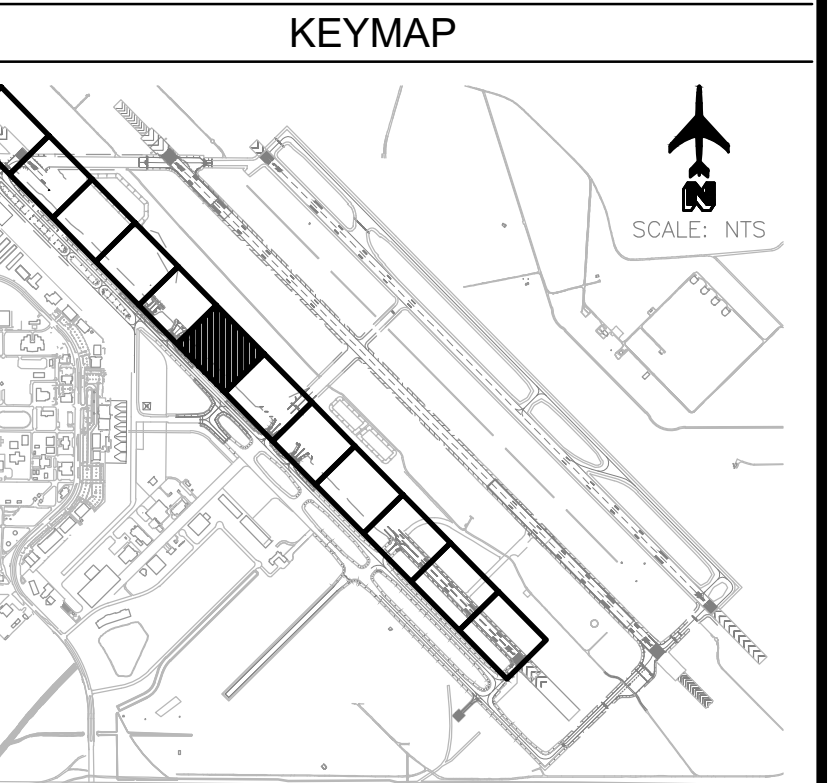
MATCH LINE STA 146+00 - SEE SHEET E3-3.7



- CONSTRUCTION NOTES ○
- ① INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 8 EA
 - ⑥ NEW 1-2"C - SE 3200 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 3300 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 810 LF
 - ⑯ INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE 2 EA

- REFERENCE NOTES ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)

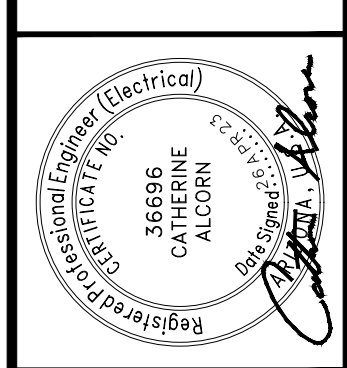
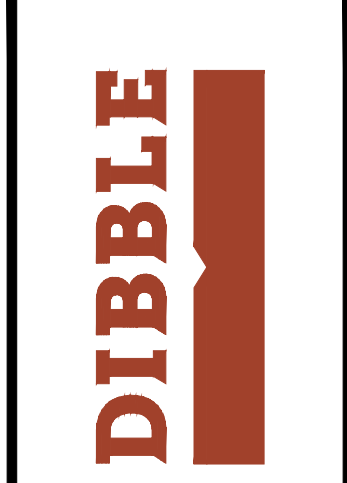


CR engineers

Call at least two full working days before you begin excavation.

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 in Maricopa County: (602) 963-1100

REV	DATE	DESCRIPTION



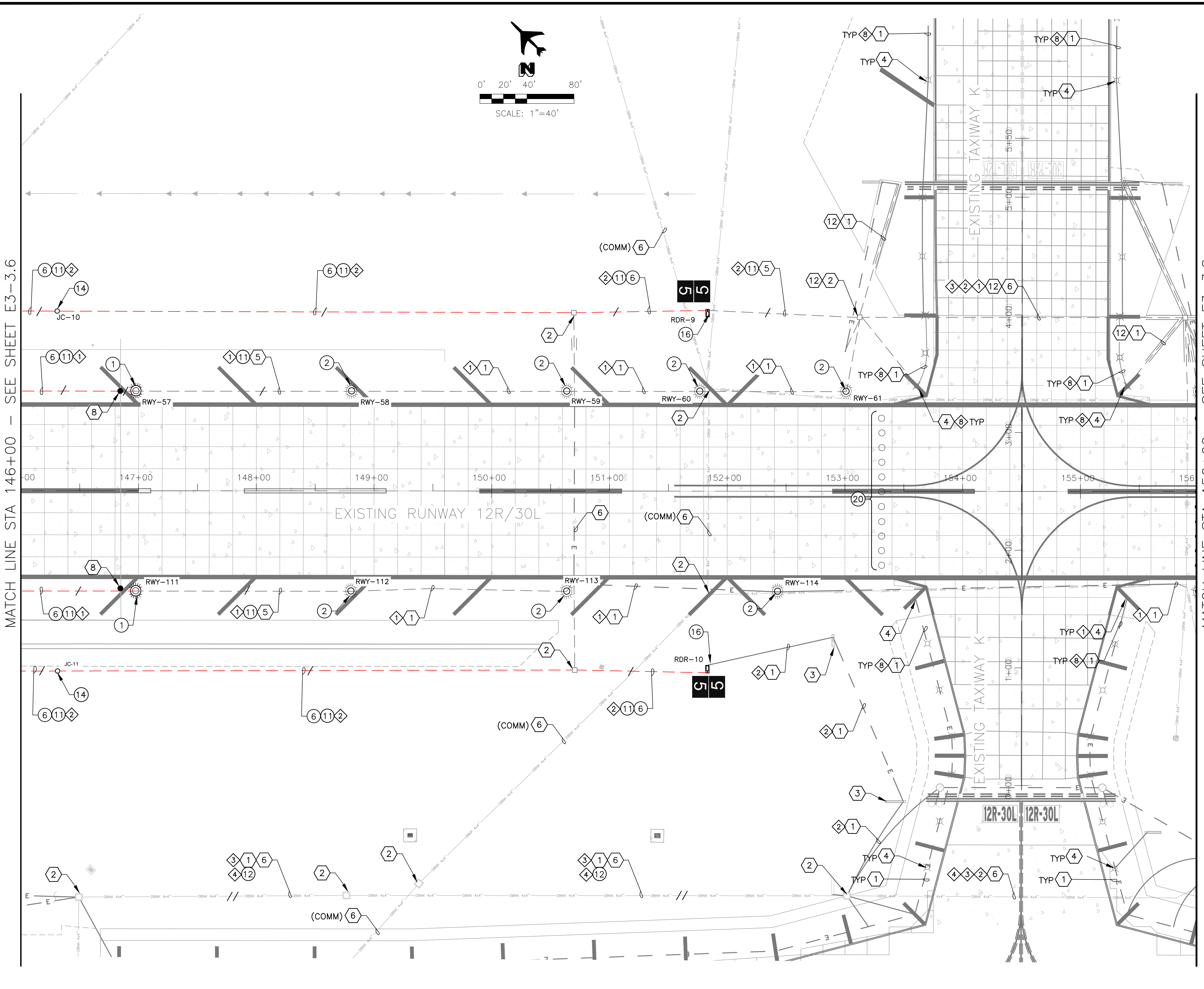
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

E3-3.6
 SHEET NO.
 160 OF 211

FILE:Q:\PROJECTS\220000\220206 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\220206 E3-3.1-E3-3.12 INSTALLATION_A&E.dwg DATE:April 18, 2023 TIME:4:25 PM BY:jeff weidman



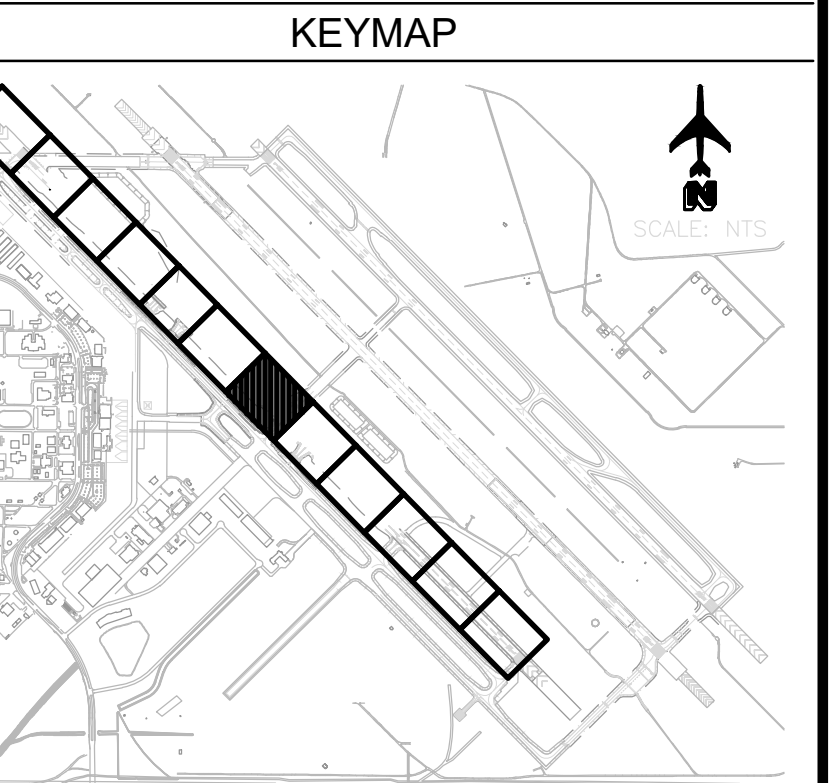
MATCH LINE STA 146+00 - SEE SHEET E3-3.6

MATCH LINE STA 156+00 - SEE SHEET E3-3.8

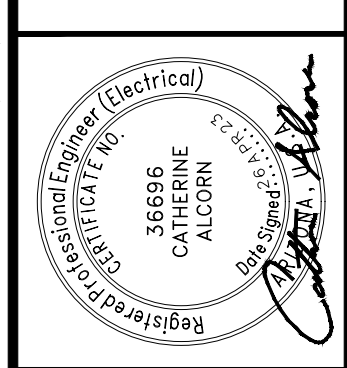
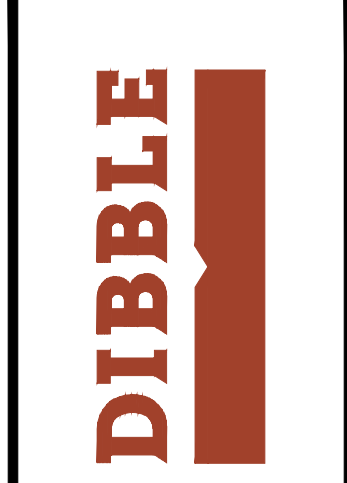
- CONSTRUCTION NOTES ○
- ① INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE. 2 EA
 - ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 7 EA
 - ⑥ NEW 1-2°C - SE 1370 LF
 - ⑪ NEW 1/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 2300 LF
 - ⑫ NEW 2/C #8-5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE. 740 LF
 - ⑭ NEW L-867E (24" DIA) JUNCTION CAN 2 EA
 - ⑯ INSTALL NEW L-858B(L) SIZE 4, 1-MODULE RUNWAY DISTANCE REMAINING SIGN AND ISOLATION TRANSFORMER ON NEW BASE 2 EA
 - ⑳ INSTALL NEW LED L-861(L) RUNWAY TEMPORARY THRESHOLD LIGHTS AND TRANSFORMERS 11 EA

- ◇ REFERENCE NOTES ◇
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
 - ⑫ WORK ASSOCIATED WITH SCHEDULE II - ADD ALT 1

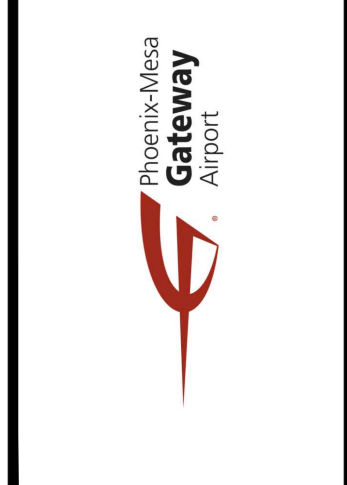
- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)
 - ⑧ TWK (TAXIWAY K)



REV	DATE	DESCRIPTION



DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



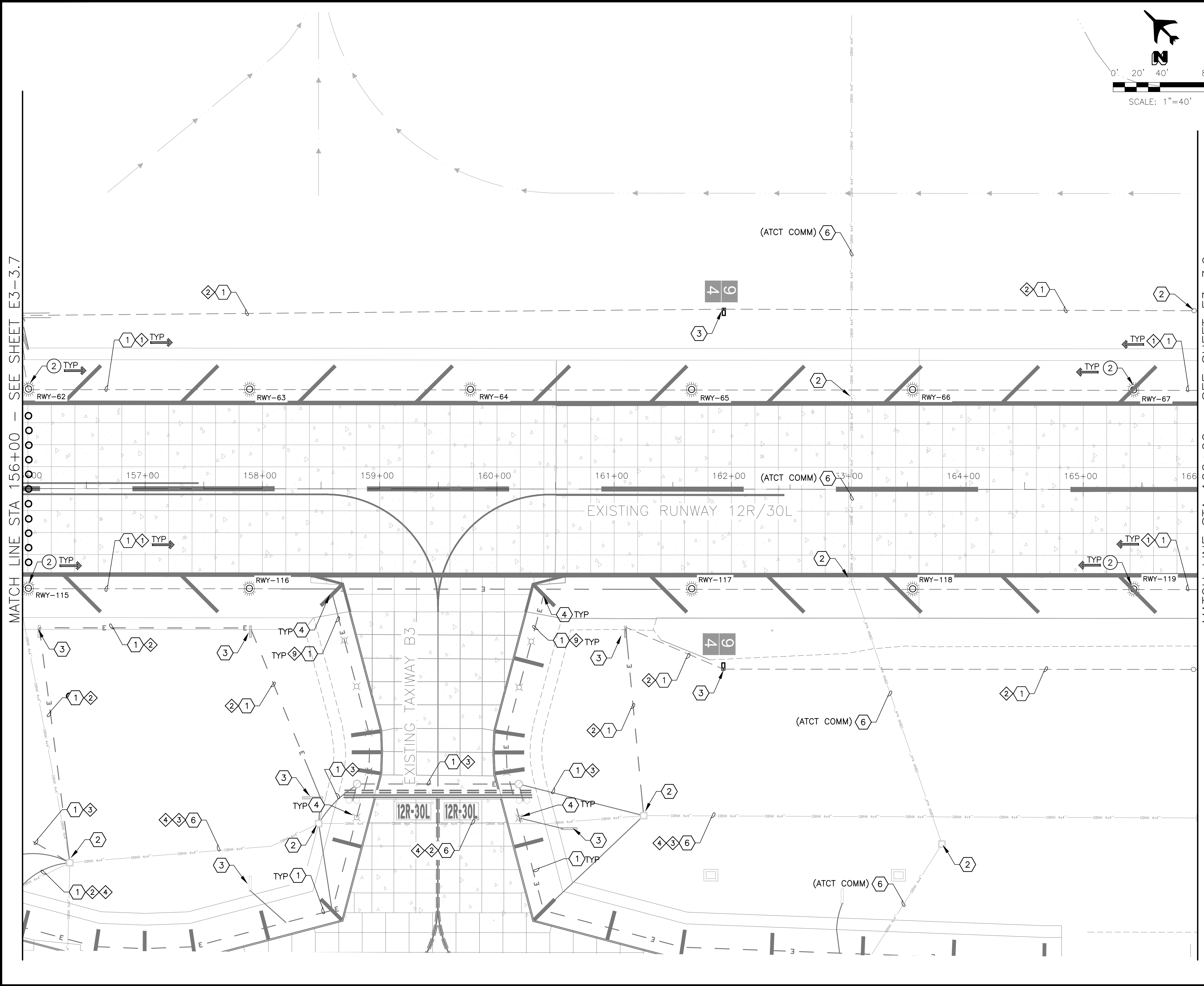
**RUNWAY '12R-30L' RECONSTRUCTION
ADD ALT 2
(SCH III) AIRFIELD ELECTRICAL
INSTALLATION**

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FILE Q:\PROJECTS\22000\22026 PNGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A42.dwg DATE: April 18, 2023 TIME: 4:27 PM BY: jeff weidman



- CONSTRUCTION NOTES ○
- ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 11 EA
- REFERENCE NOTES ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)
 - ⑤ TB (TAXIWAY B)

DATE: 04.26.23
 DESIGNED BY: SW JCA
 DRAWN BY: JCA
 REVIEWED BY: CA
 FILE NAME: X

Professional Engineer (Electrical)
 REG. NO. 28868
 CATHERINE ALDRON
 State of Arizona



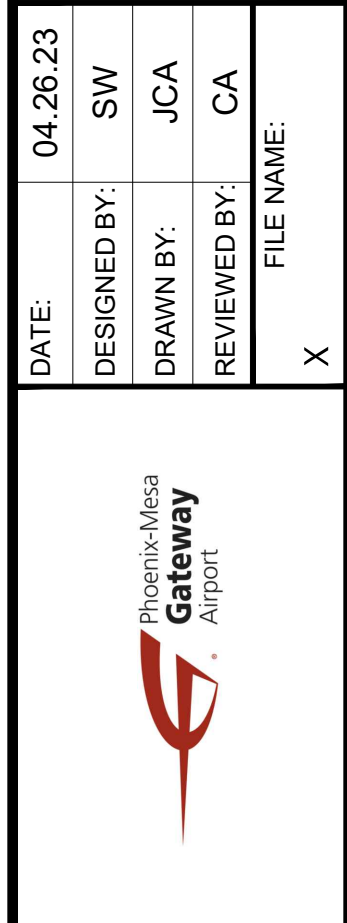
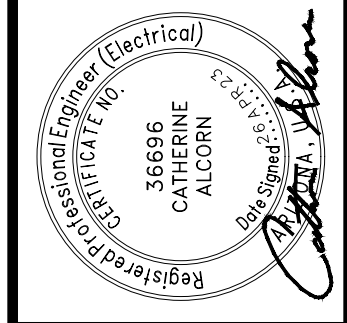
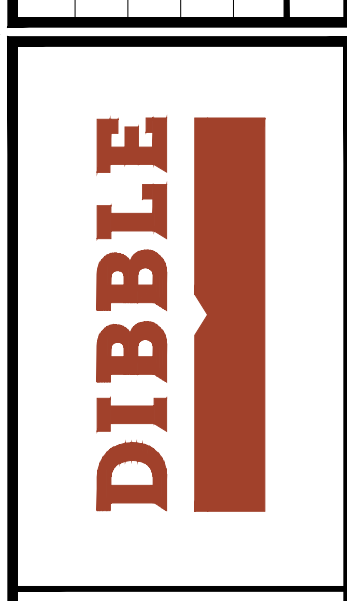
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 or 1-800-874-ARIZONA
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**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

E3-3.8
 SHEET NO.
 162 OF 211

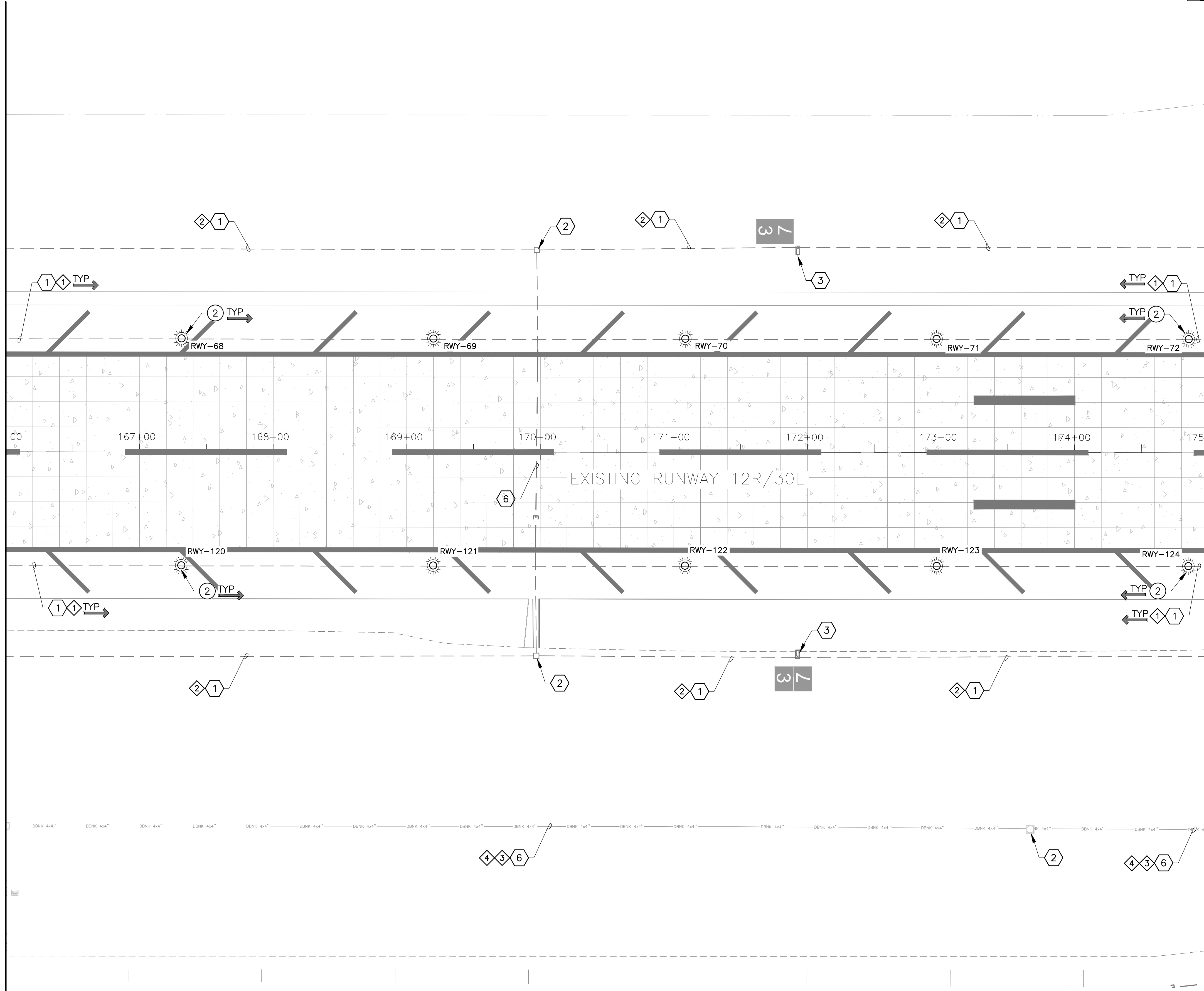
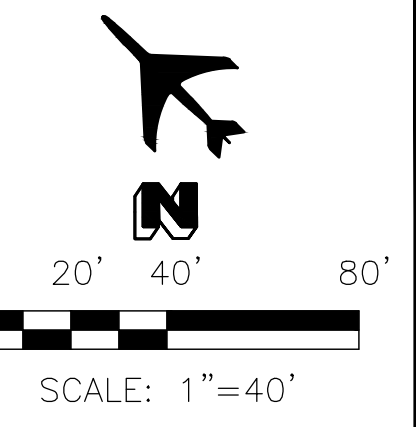
REV	DATE	DESCRIPTION



E3-3.8
 SHEET NO.
 162 OF 211

FILE:G:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A42.dwg DATE:April 20, 2023 TIME:4:59 PM BY:julio.andrino

MATCH LINE STA 166+00 - SEE SHEET E3-3.8



- CONSTRUCTION NOTES ○
- ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 10 EA

- REFERENCE NOTES ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

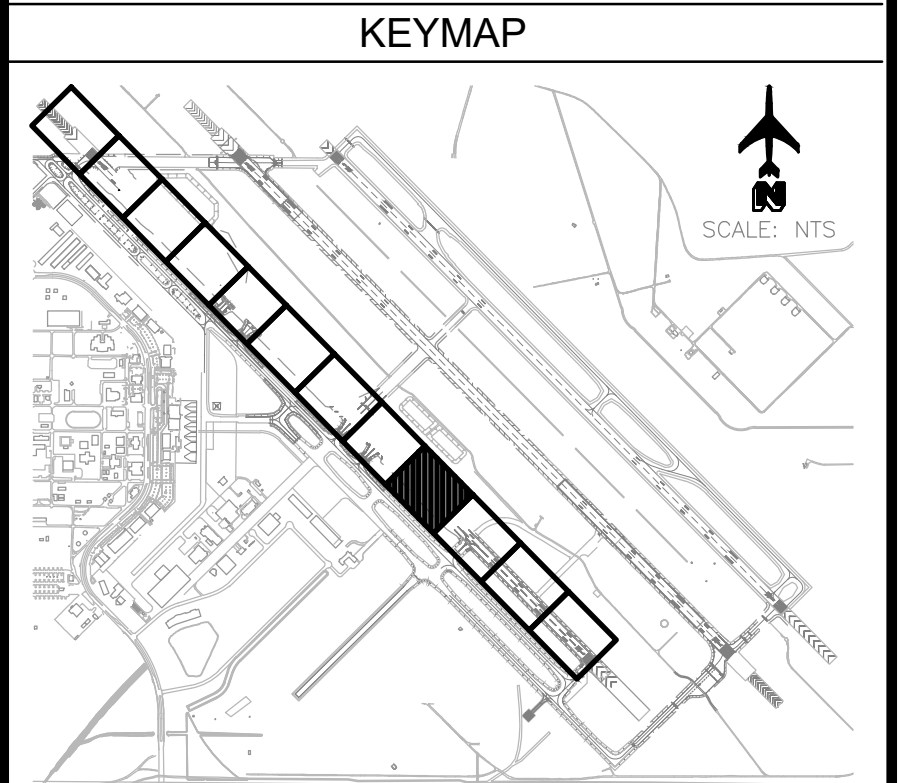
- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 25696
 CATHERINE ALDRIN
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X

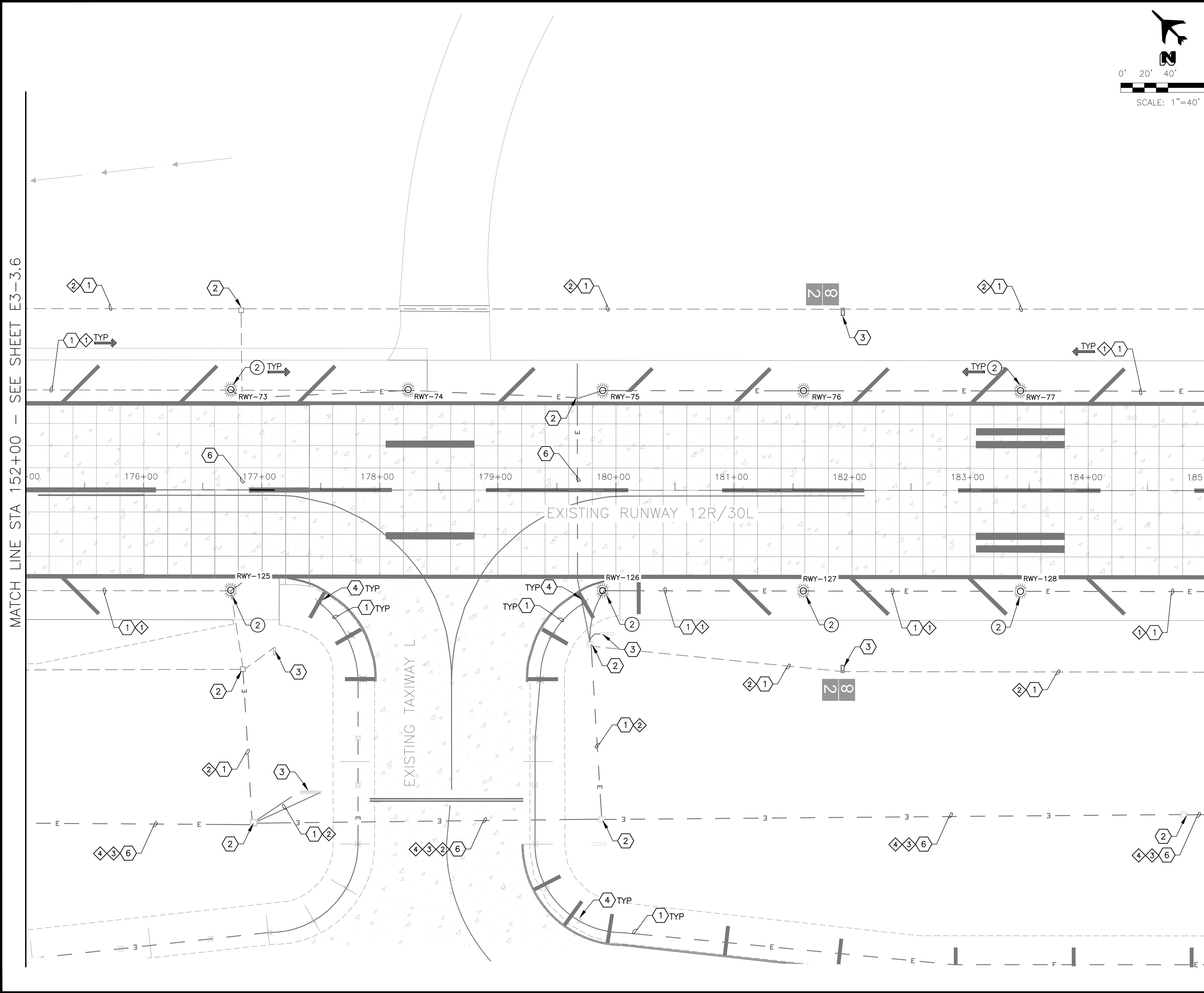


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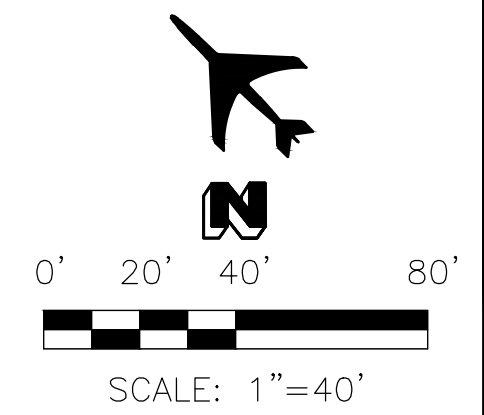
**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

FILE Q:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD\SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A&A.dwg DATE: April 18, 2023 TIME: 4:30 PM BY: jeff weidman



MATCH LINE STA 152+00 - SEE SHEET E3-3.6

MATCH LINE STA 185+00 - SEE SHEET E3-3.8



- CONSTRUCTION NOTES ○
- ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 9 EA
- REFERENCE NOTES ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK
 - ⑧ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

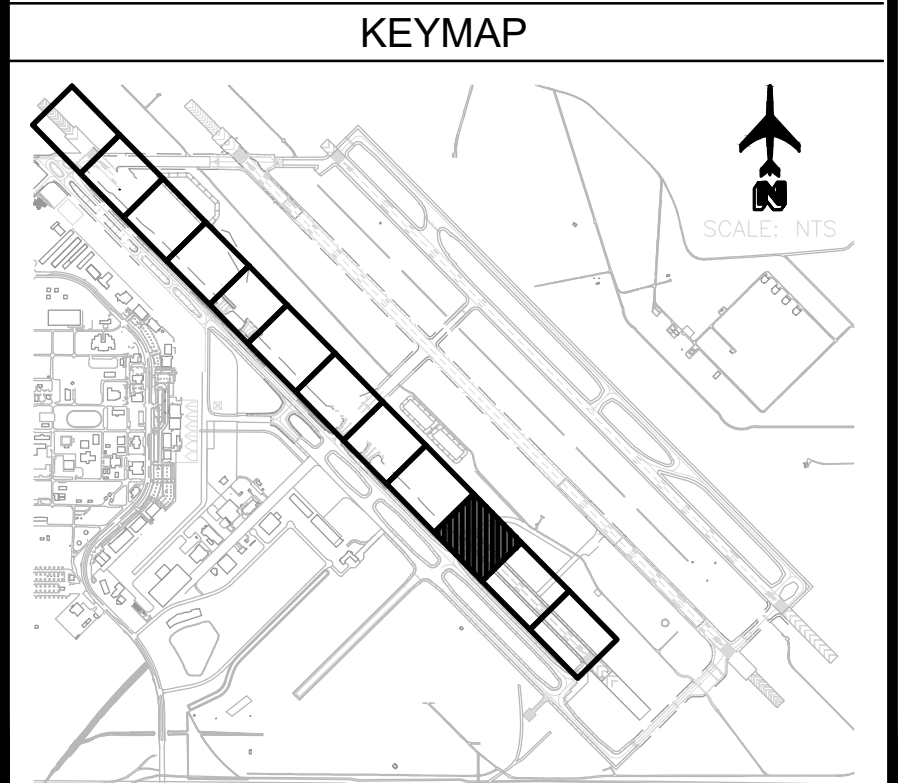
- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)
 - ④ PPN (RW 12R PAPI NORTH)

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 18888
 Catherine Alcorn
 Phoenix, AZ

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



CR engineers

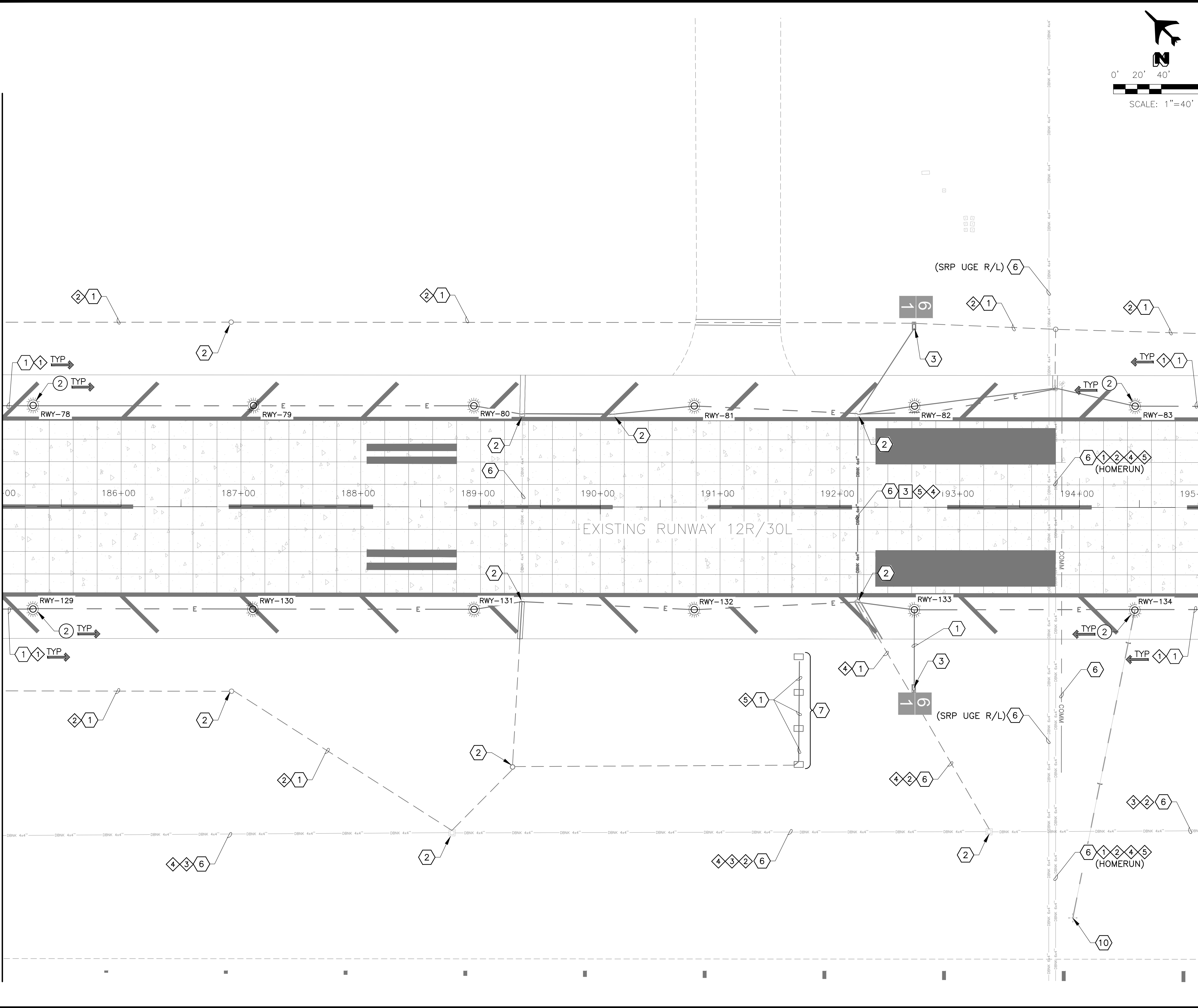
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 (800) 488-8111
 In Maricopa County (602) 253-1100

**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

FILE:G:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A&Z.dwg DATE:April 20, 2023 TIME:5:02 PM BY:Julio andrino

MATCH LINE STA 185+00 - SEE SHEET E3-3.10



MATCH LINE STA 195+00 - SEE SHEET E3-3.12

CONSTRUCTION NOTES

- ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 12 EA

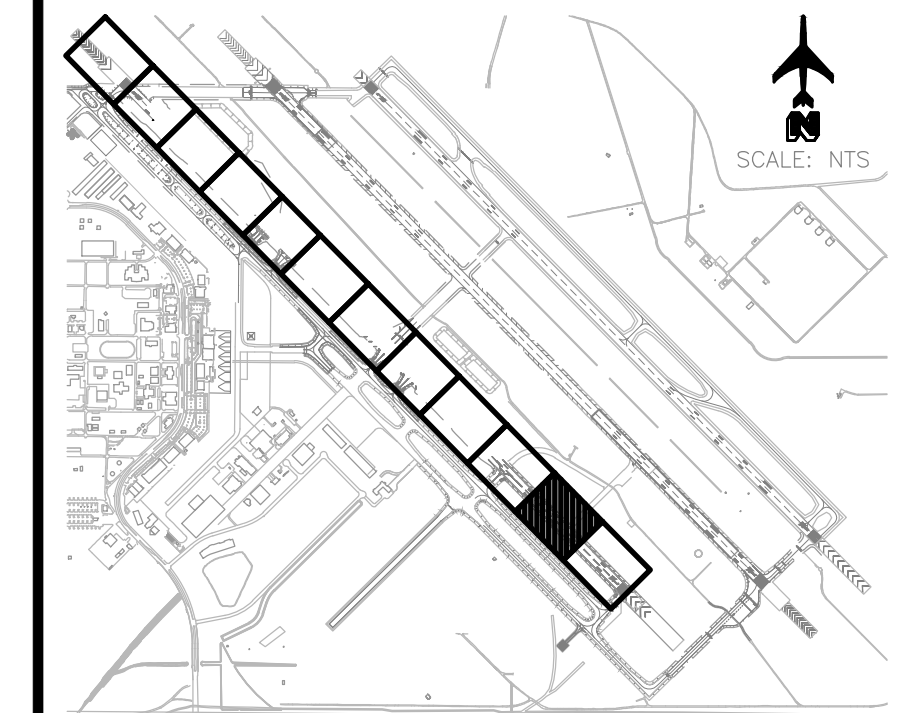
REFERENCE NOTES

- ① EXISTING CONDUIT AND CONDUCTOR
- ② EXISTING HANDHOLE/PULL BOX
- ③ EXISTING AIRFIELD GUIDANCE SIGN
- ④ EXISTING ELEVATED LIGHT FIXTURE
- ⑤ EXISTING CONDUIT
- ⑥ EXISTING DUCTBANK

CIRCUIT IDENTIFICATION

- ① R1 (RW EDGE LIGHTS)
- ② R1S (RW SIGNS)
- ③ RGL (RUNWAY GUARD LIGHTS)
- ④ PPN (RW 12R PAPI NORTH)
- ⑤ PPS (RW 30L PAPI SOUTH)

KEYMAP



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 in Maricopa County (602) 963-1100

REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 12345
 Catherine Alcorn
 State of Arizona

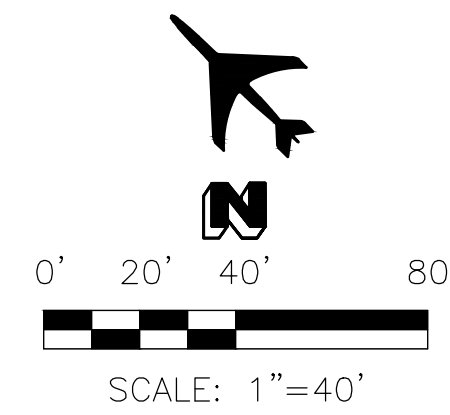
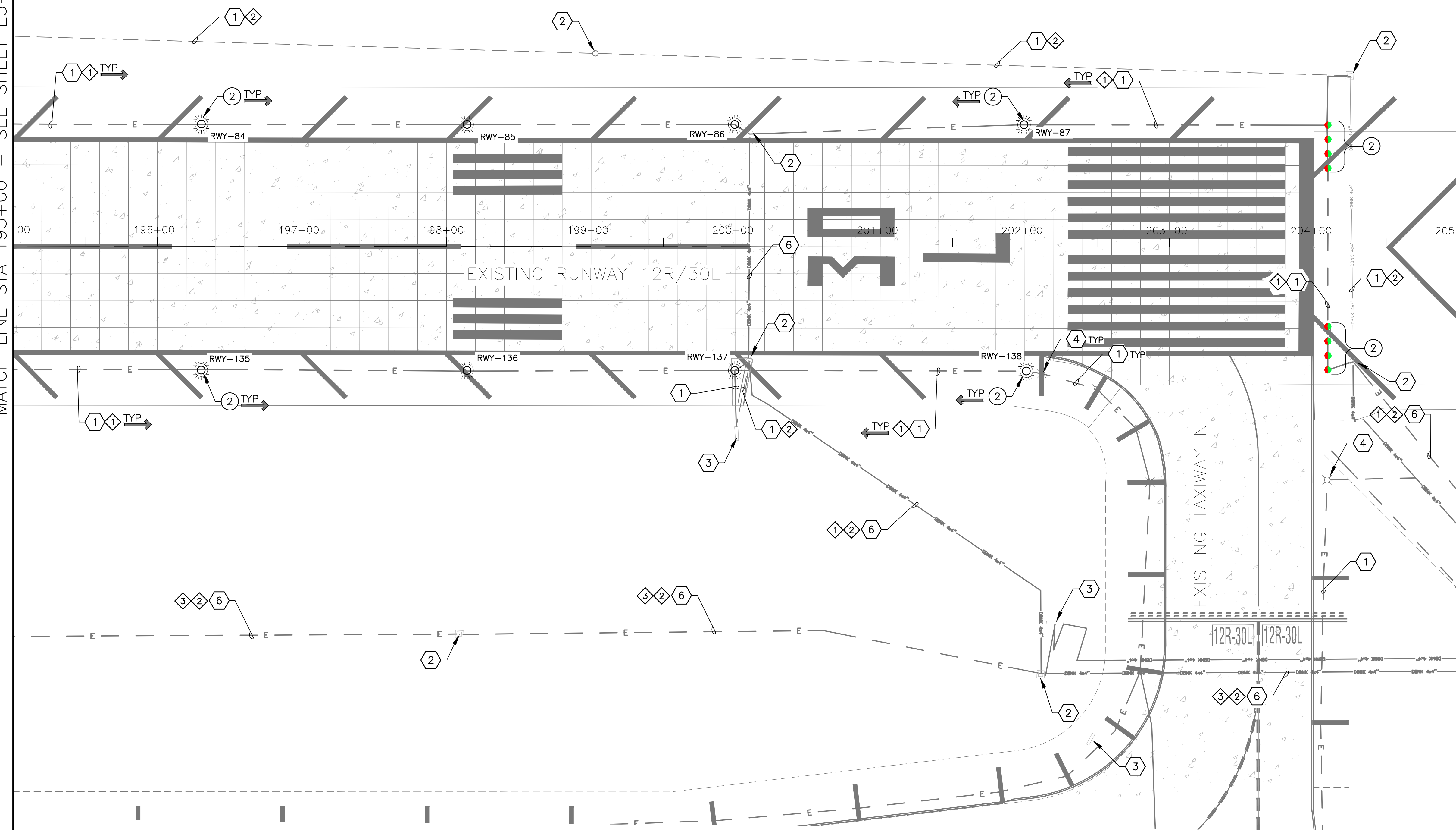
DATE:	04.26.23
DESIGNED BY:	SW
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

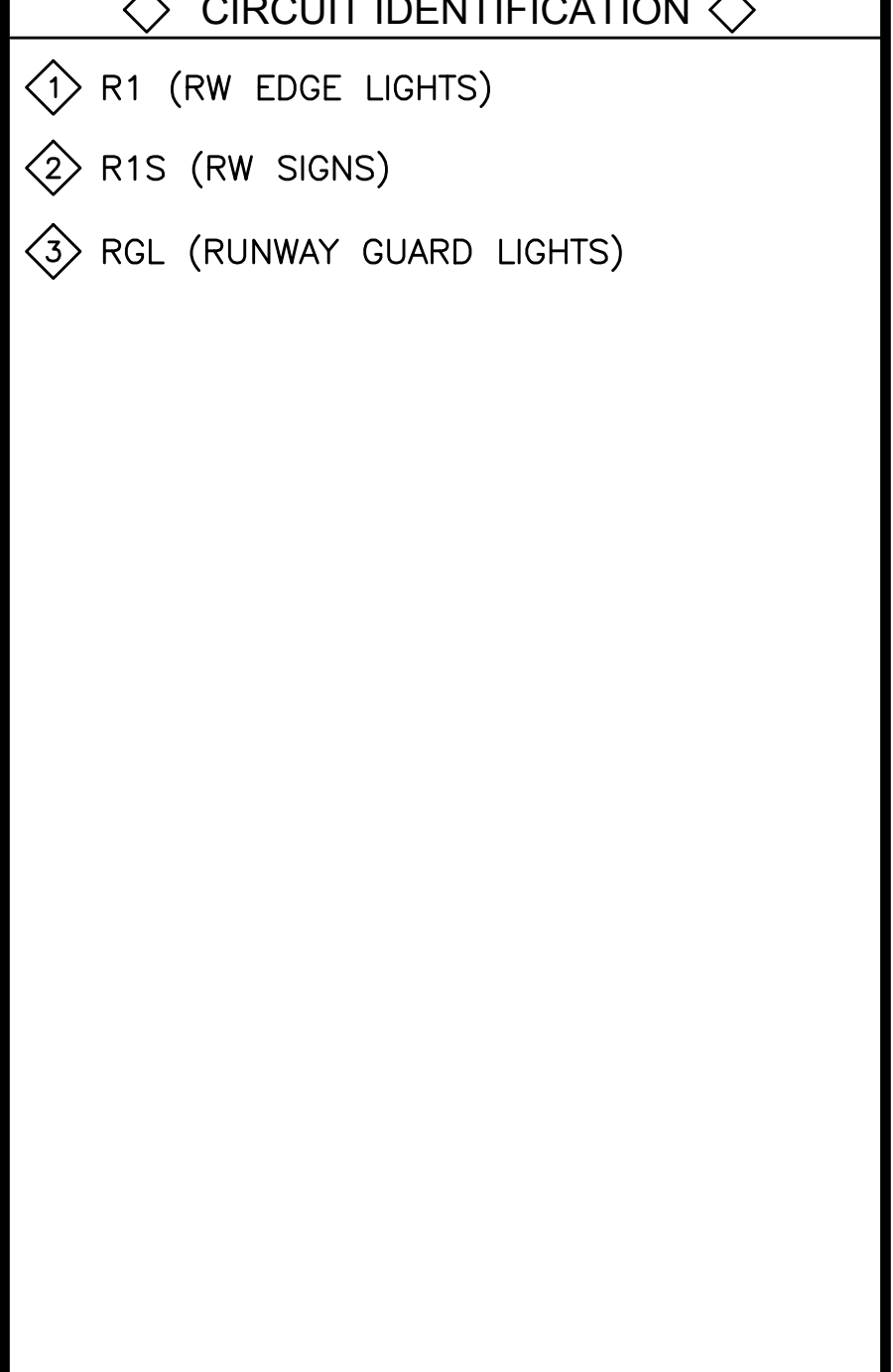
FILE Q:\PROJECTS\22000\22026 PMGA Runway 12R-30L Reconstruction\CAD SHEETS\ADD ALT 2\22026 E3-3.1-E3-3.12 INSTALLATION_A&A.dwg DATE: April 18, 2023 TIME: 4:32 PM BY: jeff weidman

MATCH LINE STA 195+00 - SEE SHEET E3-3.11



- CONSTRUCTION NOTES ○
- ② INSTALL NEW LED L-861(L) RUNWAY EDGE/THRESHOLD LIGHT AND ISOLATION TRANSFORMER ON EXISTING BASE. 16 EA
- REFERENCE NOTES ○
- ① EXISTING CONDUIT AND CONDUCTOR
 - ② EXISTING HANDHOLE/PULL BOX
 - ③ EXISTING AIRFIELD GUIDANCE SIGN
 - ④ EXISTING ELEVATED LIGHT FIXTURE
 - ⑤ EXISTING CONDUIT
 - ⑥ EXISTING DUCTBANK

- ◇ CIRCUIT IDENTIFICATION ◇
- ① R1 (RW EDGE LIGHTS)
 - ② R1S (RW SIGNS)
 - ③ RGL (RUNWAY GUARD LIGHTS)



REV	DATE	DESCRIPTION

DIBBLE

Professional Engineer (Electrical)
 License No. 18588
 CATHERINE ALDRON
 State of Arizona

DATE:	04.26.23
DESIGNED BY:	SW JCA
DRAWN BY:	JCA
REVIEWED BY:	CA
FILE NAME:	X



**RUNWAY '12R-30L' RECONSTRUCTION
 ADD ALT 2
 (SCH III) AIRFIELD ELECTRICAL
 INSTALLATION**

CR engineers

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 Arizona Statewide
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 in Maricopa County (602) 253-1100



CONSTRUCTION PLANS FOR Phoenix-Mesa **Gateway** Airport MESA, ARIZONA

The Phoenix-Mesa Gateway Airport is owned and operated by the Phoenix-Mesa Gateway Airport Authority, a Joint Powers Airport Authority comprised of the Cities of Mesa, Phoenix, and Apache Junction, the Towns of Queen Creek and Gilbert, and the Gila River Indian Community. The Authority was formed by agreement between the City of Mesa, City of Apache Junction, Town of Gilbert, Town of Queen Creek, the Gila River Indian Community and the City of Phoenix, pursuant to Arizona Revised Statutes Section 28-854.

TAXIWAY B2 (TAXIWAY H RELOCATION)

PMGAA PROJECT NO.: 741

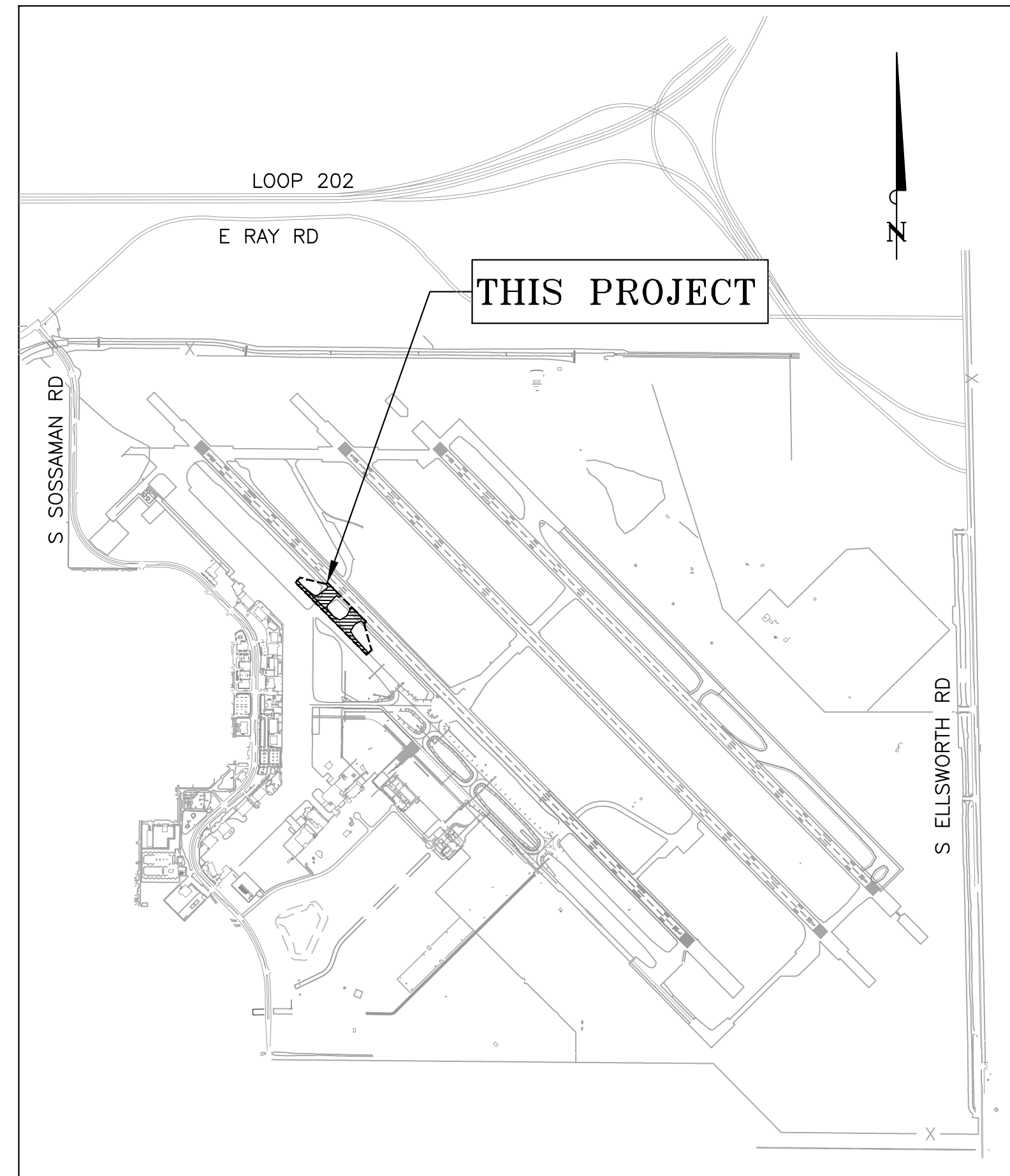
PMGAA SOLICITATION NO.: 2023-022-IFB

ADOT GRANT NO.: XXXX

GENERAL PROJECT DESCRIPTION:

- DEMO EXISTING TAXIWAY H
- CONSTRUCT NEW TAXIWAY B2
- INFIELD GRADING AND EARTHWORK
- PAVE PCCP TAXIWAY AND ASPHALT SHOULDERS
- LIGHTING AND SIGNAGE
- STORM DRAINAGE
- PAVEMENT MARKING

100% SUBMITTAL



LOCATION MAP
N.T.S.

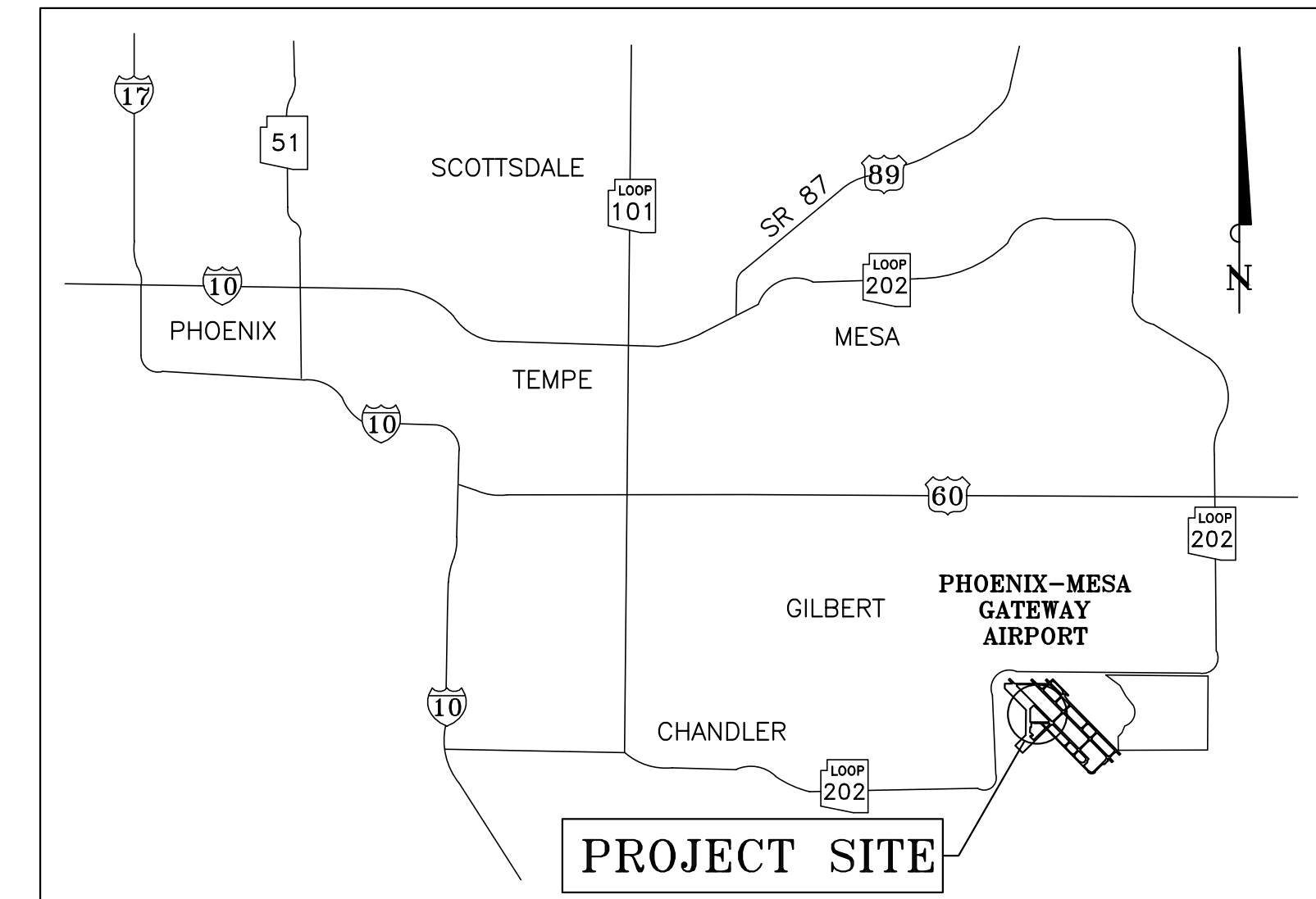
BENCHMARK

PROJECT HORIZONTAL AND VERTICAL CONTROL IS TIED TO THE FOLLOWING SURVEY MONUMENT:

REFERENCE "SURVEY CONTROL" SHEET, G1-1.7 (DIBBLE RUNWAY 12R-30L PLANS)

COORDINATION LIST

ORGANIZATION	CONTACT	PHONE
DESIGN		
ENGINEER (CIVIL)	JARRETT MOORE	623-552-5185
ENGINEER (ELECTRICAL)	DUSTIN COLWELL	775-200-1963
ENGINEER (STRUCTURAL)	BRETT STROUP	602-371-4566
ENVIRONMENTAL / GEO	NONE	NONE
SURVEYOR	RICHARD ANDERSON	602-577-7571
OWNER		
PMGAA ENGINEERING AND FACILITIES	BOB DRAPER	480-988-7705
PMGAA OPERATIONS	IVAN SMITH	480-988-7708
PROJECT MANAGER	TONY STEENECK	480-988-7611
UTILITIES		
CITY OF MESA UTILITIES	-	480-644-2181
LUMEN	-	602-716-3569
SOUTHWEST GAS	-	480-730-3610
SALT RIVER PROJECT	-	602-236-3333



VICINITY MAP
N.T.S.



	NO.	REVISION	BY	DATE
<p style="font-size: 8px; margin: 0;">KIMLEY-HORN AND ASSOCIATES, INC. 1001 W Southern Ave, Suite 131 Mesa, Arizona 85210 (480) 207-2666</p>				
<p style="font-size: 8px; margin: 0;">SCALE Horiz. _____ Vert. _____ Date 04/26/2023 Designed by JMM Drawn by RAB Checked by JMM Approved by SHR</p>				
<p style="font-size: 8px; margin: 0;">Phoenix-Mesa Gateway Airport Authority 5835 SOUTH SOSSAMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phxmesagateway.org</p>				
<p style="font-size: 8px; margin: 0;">PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) COVER SHEET</p>				
<p style="font-size: 8px; margin: 0;">PROJECT NO. 091134047</p>				
<p style="font-size: 8px; margin: 0;">FILE NO. 091134047CV</p>				
<p style="font-size: 12px; margin: 0;">G4-1.0</p>				
<p style="font-size: 8px; margin: 0;">SHEET 167 of 211</p>				

K:\p\091134047 - Taxiway H\091134047CV.dwg Apr 25, 2023 Kou.Dwg
XREFS: 091134047-TB
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GENERAL NOTES

1. CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION'S STANDARDS AND SPECIFICATIONS, CITY OF MESA SUPPLEMENTARY CONDITIONS, CITY OF MESA SUPPLEMENTS, LATEST REVISION TO ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) STANDARD DRAWINGS, LATEST REVISION TO THE MAG UNIFORM STANDARD GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS, LATEST REVISION. IN THE EVENT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS FOR THIS PROJECT AND THE MAG STANDARD SPECIFICATIONS AND DETAILS AND THE CITY OF MESA SUPPLEMENTS TO THE MAG STANDARDS, THE CONTRACT DOCUMENTS FOR THIS PROJECT SHALL PREVAIL. THE FOLLOWING IS THE PRECEDENCE OF THE CONTRACT DOCUMENTS:

- SPECIAL PROVISIONS
- TECHNICAL SPECIFICATIONS, CIVIL AND ELECTRICAL PLANS/DRAWINGS
- GENERAL PROVISIONS
- GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT
- CITY OF MESA SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS
- MAG UNIFORM STANDARD SPECIFICATIONS

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF PHOENIX-MESA GATEWAY PROPERTY AND SHALL LOCATE AND PROTECT CAREFULLY FROM DAMAGE OR DISTURBANCE OF ALL BENCHMARKS, LAND MONUMENTS AND PROPERTY MARKERS. IF DAMAGE OR INJURY TO PROPERTY DOES OCCUR DURING THE WORK, THE CONTRACTOR SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE BY REBUILDING OR RESTORING AS DIRECTED.

3. SAFETY AND SECURITY – SAFETY AND SECURITY IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE COORDINATED WITH THE PHOENIX-MESA GATEWAY AIRPORT AUTHORITY AND THE ENGINEER (REFER TO SPECIAL PROVISION SPECIFICATION SECTION 60).

4. THE CONTRACTOR SHALL NOTIFY THE PHOENIX-MESA GATEWAY AIRPORT AUTHORITY IN WRITING, THROUGH THE ENGINEER, A MINIMUM OF TWO (2) WEEKS PRIOR TO WORK TO OBTAIN CLEARANCE FOR WORK WITHIN THE SAFETY AREA OF TAXIWAY "H", TAXIWAY "B" AND RUNWAY 12R-30L. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, TEN (10) CALENDAR DAYS AFTER THE NOTICE OF AWARD, A CRITICAL PATH METHOD (CPM) SCHEDULE.

5. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE AND LOCATION OF UTILITIES WAS COMPILED BASED ON THE BEST AVAILABLE UTILITY RECORDS PROVIDED TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE OR SPECIFIED. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION.

6. AIRFIELD LIGHTING SYSTEMS – INTERRUPTION OF THE EXISTING AIRFIELD LIGHTING SYSTEM IS LIMITED TO DAYLIGHT HOURS ONLY. NOTICE SHALL BE PROVIDED TO THE PHOENIX-MESA GATEWAY AIRPORT AUTHORITY AND THE ENGINEER AT LEAST TWO (2) WEEKS PRIOR TO ANY LIGHTING WORK.

7. TEMPORARY ELECTRICAL TIE-OVERS (JUMPER CABLES) MAY BE REQUIRED TO KEEP TAXIWAY EDGE LIGHTS AND SIGNS IN OPERATION DURING CONSTRUCTION. REFER TO TECHNICAL SPECIFICATION L-100.

EARTHWORK QUANTITIES

NOTE: THE FOLLOWING RAW, UNADJUSTED, IN-PLACE EARTHWORK QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES.

TAXIWAY B2 EARTHWORK QUANTITIES	
CUT	14,045 (CY)
FILL	205 (CY)
UNCLASSIFIED EXCAVATION	14,250 (CY)

QUANTITIES (SCHEDULE IV)

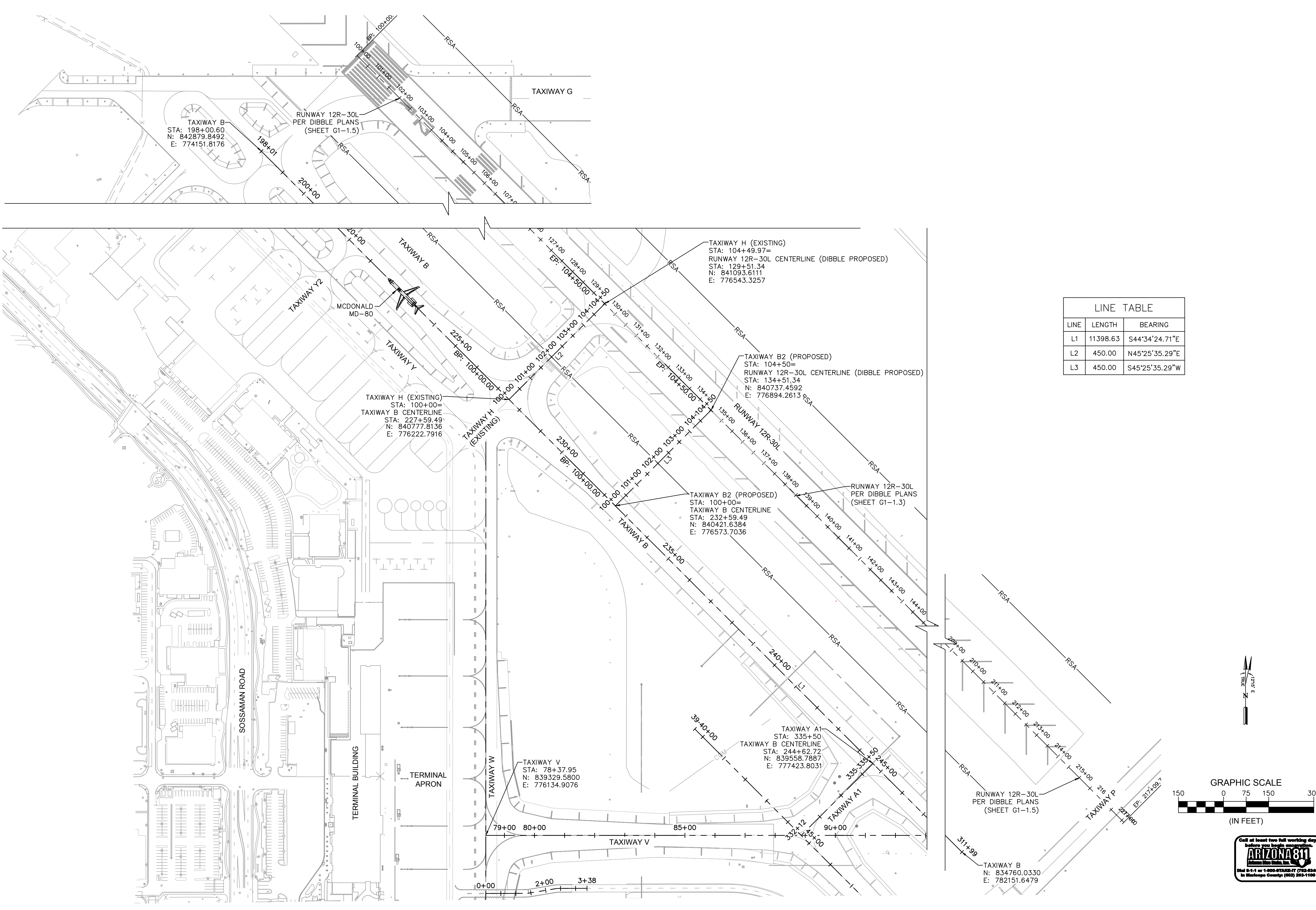
Item	Specification Number	Bid Item Description	Quantity	Unit
1	SP-50.02.4	Location of Underground Utilities (Schedule IV)	10	EA
2	SP-60.04.4	Airfield Safety and Security (Schedule IV)	1	LS
3	C-100-14.4	Contractor Quality Control Program (CQCP) (Schedule IV)	1	LS
4	C-102-5.4	Storm Water Pollution Prevention Plan (Schedule IV)	1	LS
5	C-105-6.4	Mobilization (Schedule IV)	1	LS
6	P-101-5.3	Sawcut PCCP (±) 16-Inch Depth	1,130	LF
7	P-101-5.4	Remove PCCP Section (±) 16" PCCP, 6" AC	2,720	SY
8	P-101-5.6	Sawcut AC Pavement (±) 4-Inch Depth	260	LF
9	P-101-5.7	Remove AC Pavement (±) 4-Inch Depth	13,170	SY
10	P-101-5.14	Remove PCCP (±) 16-Inch Depth	3,790	SY
11	P-101-5.19	Sawcut Pavement Section (16" PCCP, 6" AC)	740	LF
12	P-101-5.20	Removal of Pipe and Other Buried Structures	1	LS
13	P-152-4.1	Unclassified Excavation	1	LS
14	P-152-4.2	Over-Excavation & Replacement of Unsuitable Materials, Backfill & Compaction	2,500	CY
15	P-154-5.1	Subbase Course (10-Inch Depth)	6,900	SY
16	P-155-8.1	Lime-Treated Subgrade (8-Inch Depth)	14,520	SY
17	P-208-5.1	Aggregate Base Course, Stabilized Shoulder (4-Inch Depth)	2,150	SY
18	P-209-5.1	Aggregate Base Course (8-Inch Depth)	6,900	SY
19	P-304-8.1	Cement-Treated Base Course (6-Inch Depth)	1,270	SY
20	P-403-8.3	Taxiway Shoulder AC Surface Course (4-Inch Depth)	6,900	SY
21	P-501-8.2	Taxiway PCCP (16-Inch Depth)	6,710	SY
22	P-603-5.1	Emulsified Asphalt Tack Coat	3	TON
23	P-604-6.1 or P-605-5.1	Prefomed Elastomeric or Silicone Seal (1/2 Inch Joint)	6,500	LF
24	P-604-6.2	Prefomed Elastomeric Seal (1-3/4 Inch Joint)	320	LF
25	P-605-5.2	AC/AC or AC/PCCP Seal (3/8-Inch Joint)	2,210	LF
26	P-620-5.2	Pavement Markings 100% Application (Yellow)	6,500	SF
27	P-620-5.3	Non-Reflective Black Pavement Markings (Schedule IV)	7,550	SF
28	P-620-5.4	Reflective Surface Painted Holding Position Signs	890	SF
29	P-620-5.5	Pavement Marking Obliteration	9,130	SF
30	P-620-5.6	Reflective White Vehicle Service Road Pavement Markings	4,780	SF
31	D-701-5.1	24-inch Concrete Pipe RGRCP, Class V	30	LF
32	D-751-5.1	Storm Drain Inlet, Aircraft Rated	1	EA
33	D-751-5.2	Storm Drain Inlet Adjustment Lid, Aircraft Rated	1	EA
34	D-751-5.3	Adjust Existing Handhole/Manhole Lid	2	EA
35	L-100-6.2	Remove and Salvage Elevated Edge Light and Isolation Transformer, Remove Base Can	28	EA
36	L-100-6.7	Excavate and Remove Existing Conduit and Conductor	3,700	LF
37	L-100-6.8	Excavate and Remove Existing Concrete Encased 4x4 Duct Bank (If Required - Utility Relocation Item)	1,000	LF
38	L-100-6.10	Temporary Airfield Lighting Cable Jumpers	1	LS
39	L-100-7.1	Remove and salvage existing sign and isolation transformer, remove concrete sign base	6	EA
40	L-100-7.2	Remove and salvage existing 4'x4'x5" concrete hand hole	2	EA
41	L-108-6.1	L-824, Type C, 1/C #8 A W/G, 5kV Cable	4,250	LF
42	L-108-6.2	L-824, Type C, 2/C #8 A W/G, 5kV Cable	550	LF
43	L-110-6.1	Single-way, 1-2" Conduit, Slurry Encased	3,850	LF
44	L-110-6.2	Single-way, 1-2" Conduit, Slurry Encased - Retrofit in Existing Asphalt	65	LF
45	L-110-6.5	Multiple-way, 4-4" Conduit, Slurry Encased	700	LF
46	L-110-6.7	Multiple-way, 4-4" Conduit, Concrete Encased	250	LF
47	L-110-7.1	Single-way, 1-2" Conduit, Concrete Encased	500	LF
48	L-115-7.1	Relocated Concrete Aircraft Load Rated Electrical Handhole	1	EA
49	L-125-6.2	Install Existing Runway Edge/Threshold Light and Isolation Transformer on New L-867 Base with New Bolts, Gasket and Lamp - Per Each	3	EA
50	L-125-7.1	New Size "B" L-867 Base Can for Any New, Reinstalled or Future Fixture in New Paved Shoulder	32	EA
51	L-125-7.2	New L-804 Elevated Runway Guard Light with New Isolation Transformer and New Hardware	2	EA
52	L-125-7.3	New L-861T(L) Taxiway Edge Light with New Isolation Transformer and Hardware, Installed	30	EA
53	L-125-7.4	New Size 3, 2-Module Guidance Sign with New Isolation Transformer, Hardware and New Concrete Foundation	2	EA
54	L-125-7.5	New Size 3, 3-Module Guidance Sign with New Isolation Transformer, Hardware and New Concrete Foundation	3	EA
55	L-125-7.6	New Size 3, 4-Module Guidance Sign with New Isolation Transformer, Hardware and New Concrete Foundation	1	EA
56	L-125-7.7	New Size 3, 3-Module + 2-Module Guidance Sign with New Isolation Transformer, Hardware and New Concrete Foundation	1	EA
57	L-125-7.8	New Size 3, 3-Module + 3-Module Guidance Sign with New Isolation Transformer, Hardware and New Concrete Foundation	1	EA
58	L-125-7.9	New Size 3 1-Module Panel Installed in Existing Sign	5	EA



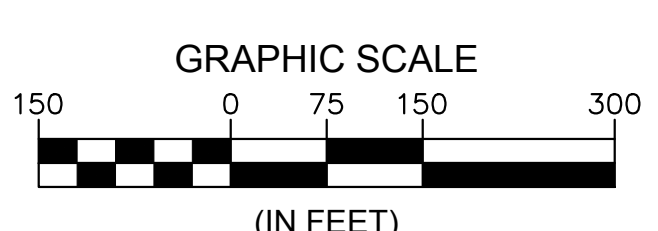
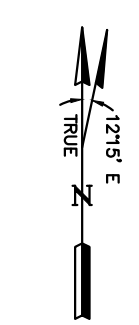
NO.	REVISION	BY	DATE
FIRM'S NAME Kimley-Horn <small>KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. Southern Ave., Suite 131 Mesa, Arizona 85210 (480) 207-2686</small>			
FIRM'S SEAL Professional Engineer (Civil) License No. 61804 State of Arizona Expires 06/30/2025			
SCALE Horiz. _____ Vert. _____ Date 04/26/2023 Designed by JMM Drawn by RAB Checked by JMM Approved by SHR			
Phoenix-Mesa Gateway Airport TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) GENERAL NOTES AND QUANTITIES PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phxmesagateway.org			
PROJECT NO. 091134047 FILE NO. 091134047NT G4-1.2 SHEET 169 of 211			

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K:\New\091134047 - Phoenix Mesa 091134047.dwg Apr 26, 2023 Kes Dy
 XREFS: 091134047-TB 091134028-VA (TW V) 091134044-VF 091134047-VS 091134044-BM (TW K) XAL-RW 26-30L - DIBBLE
 091134044-VL 091134047-BM 091134028-VA (TW V) 091134044-VF 091134047-VS 091134044-BM (TW K) XAL-RW 26-30L - DIBBLE
 091134044-VL 091134047-BM 091134028-VA (TW V) 091134044-VF 091134047-VS 091134044-BM (TW K) XAL-RW 26-30L - DIBBLE
 091134044-VL 091134047-BM 091134028-VA (TW V) 091134044-VF 091134047-VS 091134044-BM (TW K) XAL-RW 26-30L - DIBBLE
 091134044-VL 091134047-BM 091134028-VA (TW V) 091134044-VF 091134047-VS 091134044-BM (TW K) XAL-RW 26-30L - DIBBLE



LINE TABLE		
LINE	LENGTH	BEARING
L1	11398.63	S44°34'24.71"E
L2	450.00	N45°25'35.29"E
L3	450.00	S45°25'35.29"W



NO.	REVISION	BY	DATE

Kimley»Horn

 KIMLEY-HORN AND ASSOCIATES, INC.
 1001 W. Southern Ave. Suite 131
 Mesa, Arizona 85210 (480) 207-2666

Professional Engineer (Civil)
61804
Arizona State Engineer
JIM RAB
License No. 61804
Exp. 03/31/2026
Expires 06/30/2026

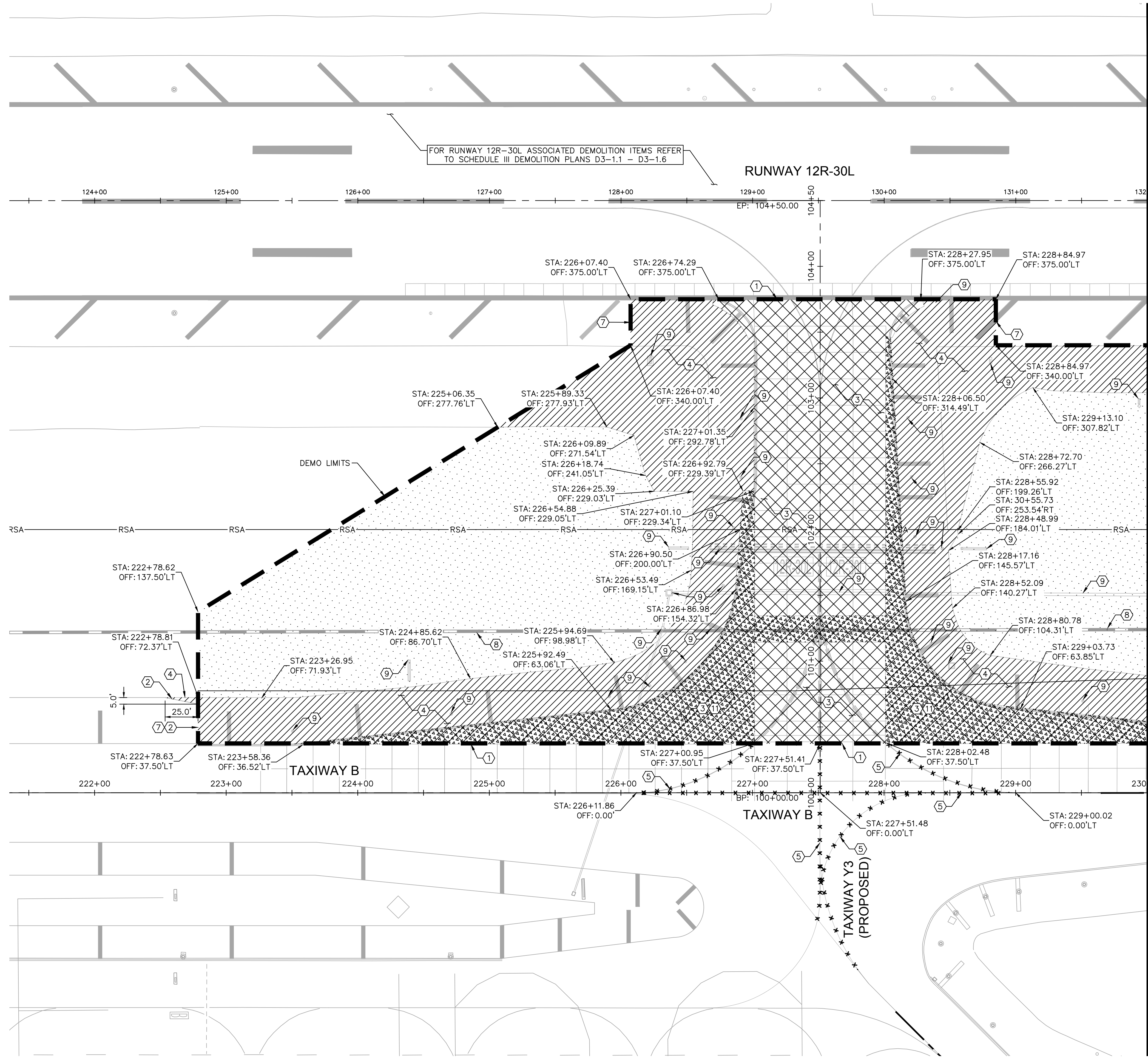
SCALE
 Horiz 1"=150'
 Vert. N/A
Date 04/26/2023
Designed by JMM
Drawn by RAB
Checked by JMM
Approved by SHR

Phoenix-Mesa Gateway Airport
 PHOENIX-MESA GATEWAY AIRPORT AUTHORITY
 5835 SOUTH SOSSAMAN ROAD
 MESA, ARIZONA 85212
 (480) 988-7600
www.phixmesagateway.org

PROJECT NAME
PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION)
 (SCH II) ALIGNMENT DEFINITION PLAN

PROJECT NO. 091134047
 FILE NO. 091134047AL
G4-1.3
 SHEET 170 of 211

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 ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.



MATCHLINE - SEE SHEET D4-1.2 STA: 230+00.00

LEGEND

- REMOVE PORTLAND CEMENT CONCRETE PAVEMENT
- REMOVE AC PAVEMENT
- TRANSITION AREA (DRAINAGE IMPROVEMENTS)
- CLEAR AND GRUB AREA
- REMOVE AC PAVEMENT BELOW PCC PAVEMENT
- REMOVE EXISTING PAVEMENT MARKING
- DEMO LIMITS
- BORING/CORING LOCATION

GENERAL NOTES:

- EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE AND LOCATION WERE COMPILED BASED ON THE BEST AVAILABLE UTILITY RECORDS TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
- THE ATTEMPT TO IDENTIFY ALL MISCELLANEOUS ELECTRICAL FACILITIES HAS BEEN MADE. IN THE CASE WHERE ANY ELECTRICAL FACILITIES HAVE BEEN OMITTED, THE CONTRACTOR SHALL REMOVE THE ITEMS WITH COST BEING INCIDENTAL.
- EXPOSED SUBGRADE AND BASE MATERIAL TO BE KEPT MOIST AND COMPACTED TO MINIMIZE FOD FROM JET BLAST AND SHALL BE TREATED WITH A DUST PALLIATIVE STABILIZER.
- REFER TO ELECTRICAL DEMOLITION PLANS FOR ELECTRICAL DEMOLITION.
- ALL STATION/OFFSET CALLOUTS REFER TO THE TAXIWAY B CENTERLINE ALIGNMENT

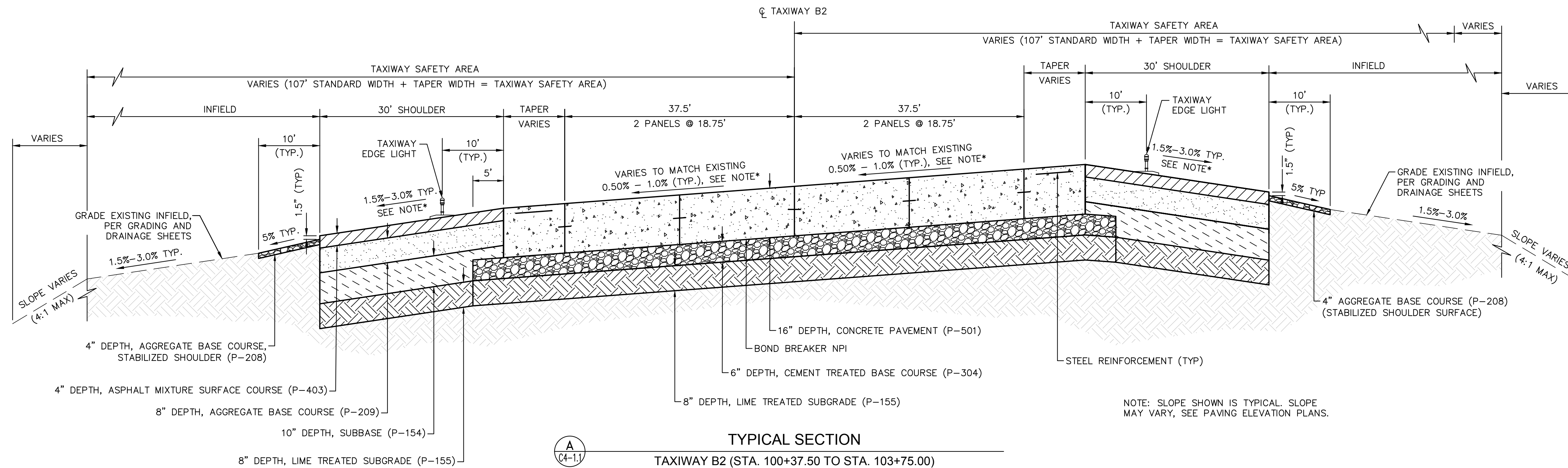
CONSTRUCTION NOTES:

- SAWCUT EXISTING PCC PAVEMENT FULL DEPTH
- SAWCUT EXISTING AC PAVEMENT FULL DEPTH
- REMOVE EXISTING PCC PAVEMENT, DEPTH VARIES (APPROX. 6"-15.5")
- REMOVE EXISTING AC PAVEMENT, DEPTH VARIES
- REMOVE EXISTING PAVEMENT MARKINGS (PROTECT EXISTING JOINTS)
- CLEAR AND GRUB, NPI
- ASPHALT PAVEMENT TRANSITION PER SHEET C4-8.1, DETAIL 7
- PROTECT EXISTING STORM DRAIN/STRUCTURE
- REFER TO ELECTRICAL PLANS
- REFER TO STORM DRAIN PLAN AND PROFILES SHEET C4-6.1
- REMOVE EXISTING AC PAVEMENT BELOW PCC PAVEMENT, DEPTH VARIES (APPROX. 4"-6")

GRAPHIC SCALE
 40 0 20 40 80
 (IN FEET)

ARIZONA 811
 Call at least two full working days before digging.
 800-4-A-811 or 602-955-8111
 In Maricopa County (602) 252-1100

FIRM'S NAME		FIRM'S SEAL		SCALE	
Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. Southern Ave., Suite 131 Mesa, Arizona 85210 (480) 207-2666		Professional Engineer (Civil) 61004 2023 No. 00000000000000000000		Horiz. 1"=40'	Vert. N/A
				Date 04/26/2023	Designed by JMM
Phoenix-Mesa Gateway Airport TAXIWAY B2 (TAXIWAY H RELOCATION)					
(SCH IV) DEMOLITION PLAN					
PROJECT NO. 091134047				FILE NO.	
091134047DM				D4-1.1	
SHEET 171 of 211					

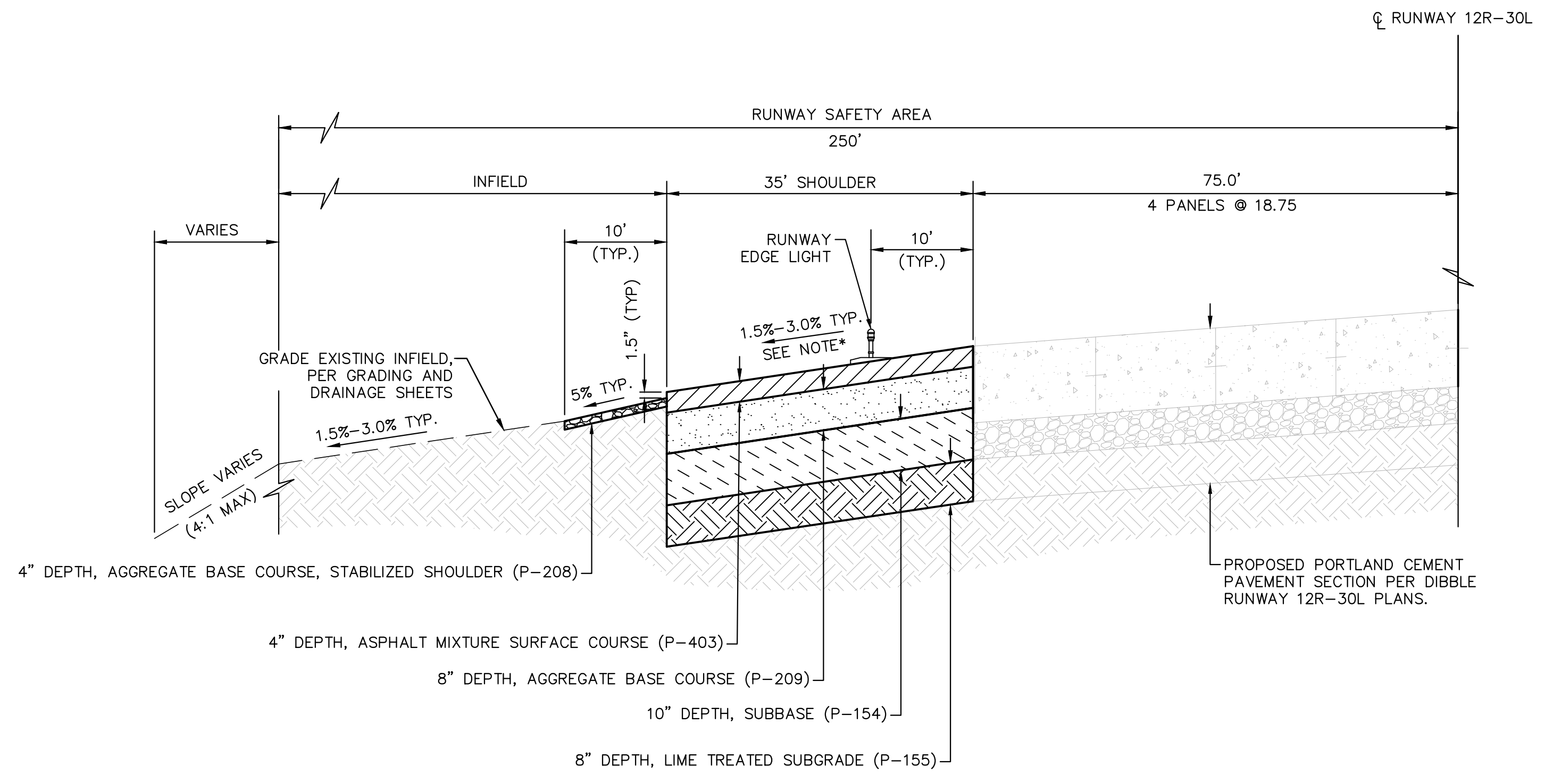


A
C4-1.1

TYPICAL SECTION

TAXIWAY B2 (STA. 100+37.50 TO STA. 103+75.00)
N.T.S.

NOTE: SLOPE SHOWN IS TYPICAL. SLOPE MAY VARY. SEE PAVING ELEVATION PLANS.



B
C4-1.1

RUNWAY SHOULDER TYPICAL SECTION

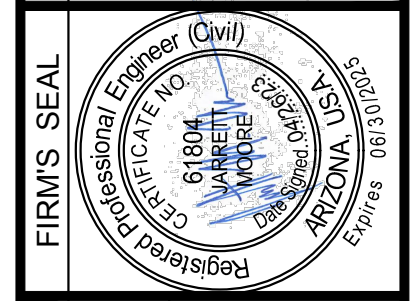
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Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 1001 W Southern Ave, Suite 131
 Mesa, Arizona 85210 (480) 207-2686



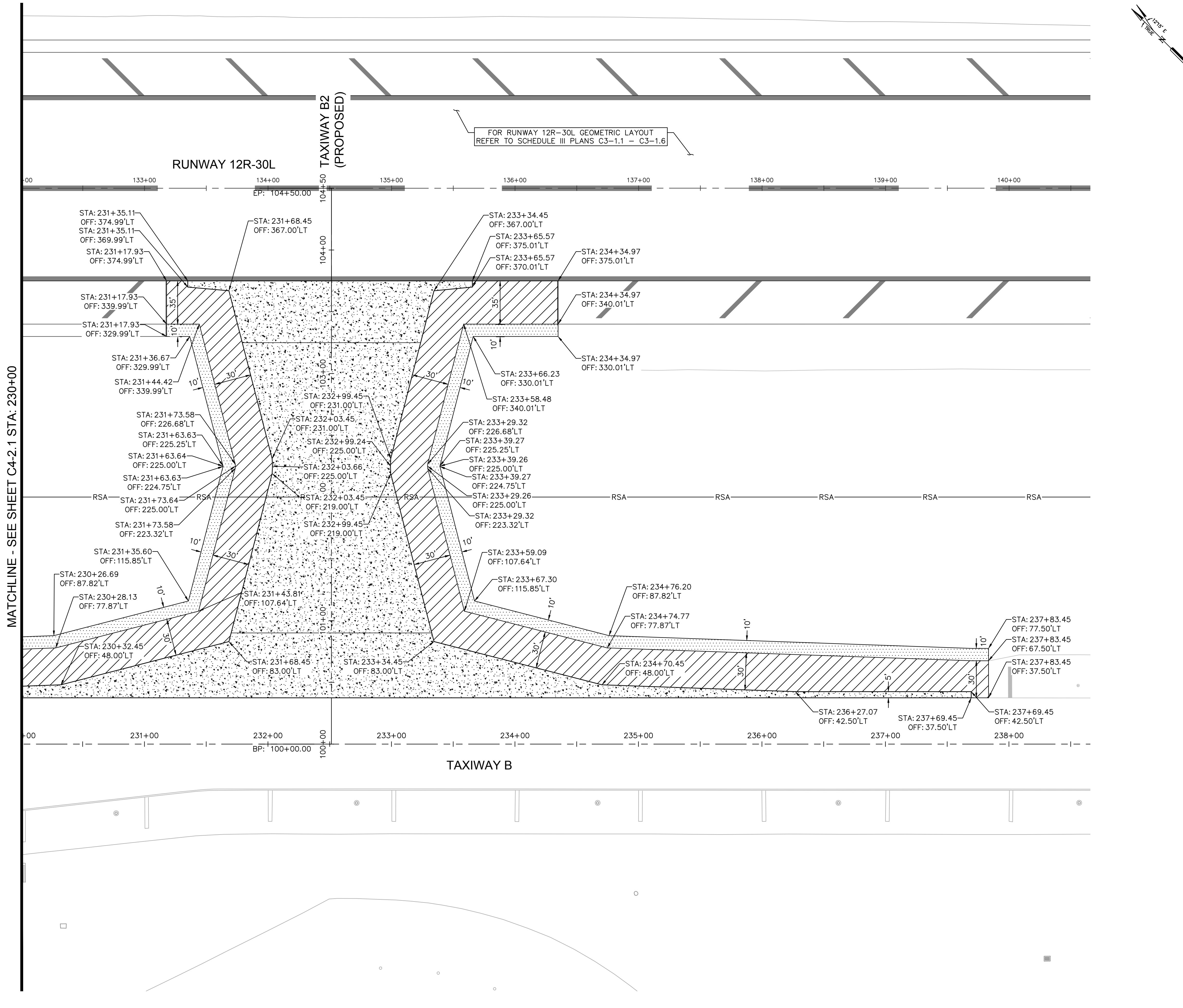
SCALE	Horiz. N.T.S.	Vert. N.T.S.
DATE	04/26/2023	
DESIGNED BY	JMM	
DRAWN BY	RAE	
CHECKED BY	JMM	
APPROVED BY	SHR	

Phoenix-Mesa Gateway Airport Authority
 PHOENIX-MESA GATEWAY AIRPORT AUTHORITY
 5835 SOUTH GOSSAMMAN ROAD
 MESA, ARIZONA 85212
 (480) 988-7600
 www.phixmesagateway.org

PROJECT NAME
 PHOENIX-MESA GATEWAY AIRPORT
 TAXIWAY B2 (TAXIWAY H RELOCATION)
 (SCH II) TYPICAL SECTIONS

PROJECT NO. 091134047
 FILE NO. 091134047TX
C4-1.1
 SHEET 174 of 211

K:\new_projects\091134047 - Phoenix Mesa Gateway Airport - Apr 05 2013 - 091134047 - VS - 091134047 - VL - XAL-RW-26-30L - DIBBLE K20023_2303-ATLD-ATLD-MRKG-PH2 - DIBBLE K20023_2303-TW-H-RH 20023_2303-PAT-BB
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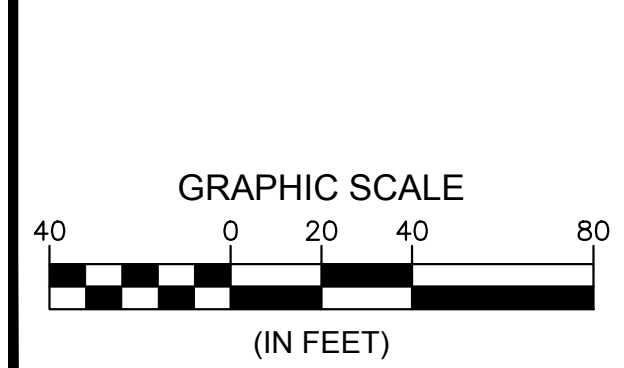
LEGEND

- [Pattern] PORTLAND CEMENT CONCRETE PAVEMENT (P-501)
- [Pattern] AC PAVEMENT SHOULDER (P-403)
- [Pattern] AGGREGATE STABILIZED SHOULDER (P-208)

GENERAL NOTES:

- REFER TO SHEETS C4-1.1 FOR TYPICAL SECTIONS.
- REFER TO SHEETS C4-3.1 FOR PAVING PLAN AND PROFILE.
- REFER TO SHEETS C4-4.1 THRU C4-4.2 FOR PAVING ELEVATION PLAN.
- REFER TO SHEETS C4-7.1 FOR JOINT LAYOUT PLAN.
- REFER TO SHEETS C4-9.1 THRU C4-9.2 FOR PAVEMENT MARKING PLAN.
- REFER TO ELECTRICAL LAYOUT PLANS FOR AIRFIELD LIGHTING AND SIGNING SYSTEM.

MATCHLINE - SEE SHEET C4-2.1 STA: 230+00



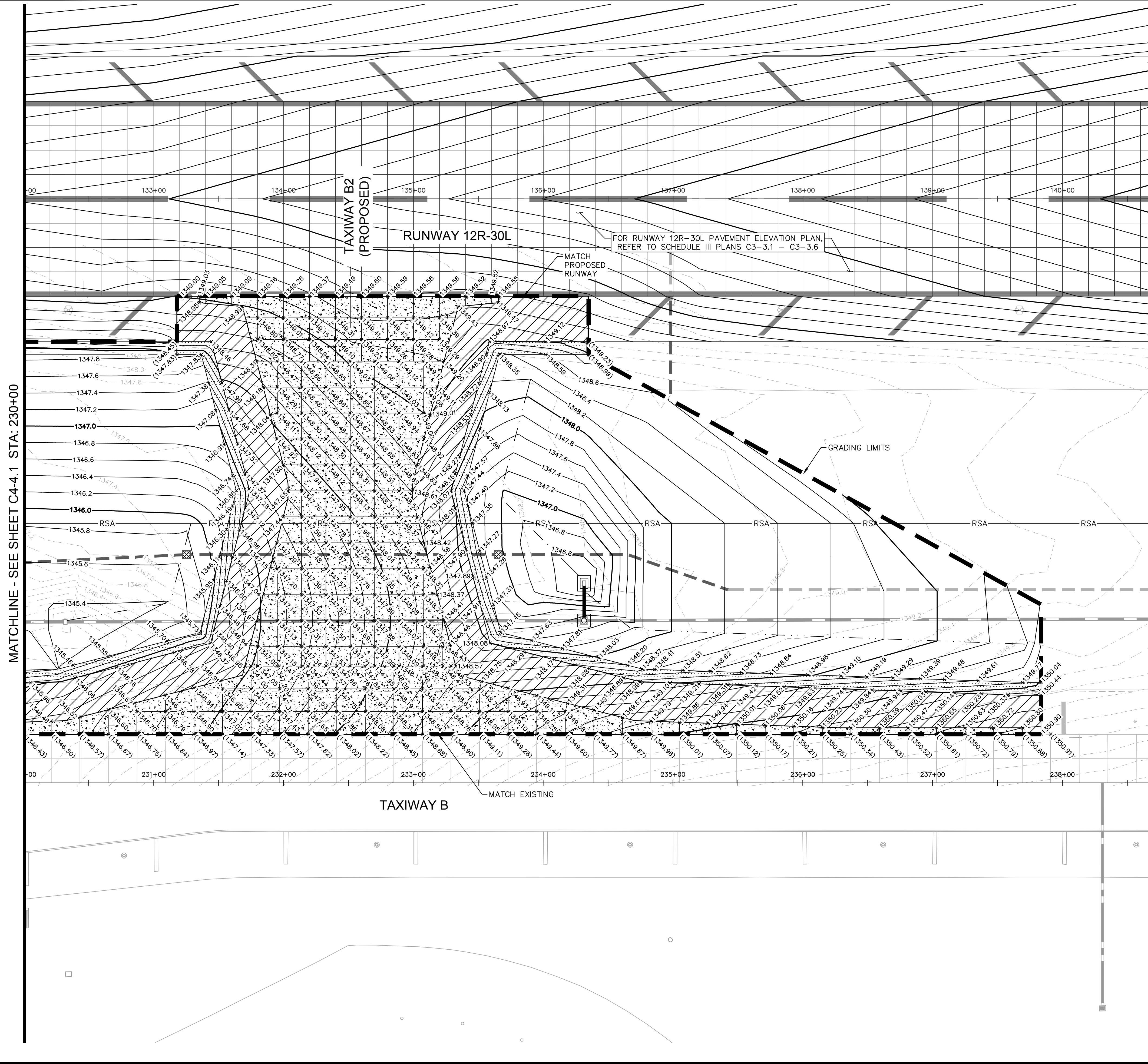
NO.	REVISION	BY/DATE

Phoenix-Mesa Gateway Airport
 PHOENIX-MESA GATEWAY AIRPORT (SCH IV) GEOMETRIC LAYOUT
 TAXIWAY B2 (TAXIWAY H RELOCATION)

KIMLEY-HORN AND ASSOCIATES, INC.
 1001 W Southern Ave, Suite 131
 Mesa, Arizona 85210 (480) 207-2686

Professional Engineer (Civil) <small>61804</small>	FIRM'S SEAL
<small>Professional Engineer (Civil) 61804 State of Arizona License No. 61804</small>	<small>Professional Engineer (Civil) 61804 State of Arizona License No. 61804</small>
<small>Scale Horiz 1" = 40' Vert. N/A</small>	<small>Date 04/26/2013 Designed by JMM Drawn by JMM Checked by JMM Approved by SHR</small>
<small>PROJECT NO. 091134047</small>	<small>FILE NO. 091134047GL</small>
C4-2.2	
SHEET 176 of 211	

K:\New_uploads\091134047 - Phoenix Mesa Gateway Airport - Apr 25, 2023 - Kac.Dwg
 XREFS: 091134047-TB 091134028-VA (TW V) 091134047-BX 091134044-VF 091134047-VS 091134047-NTEV 091134047-VF_XAL-RW-2R-30L - DIBBLE 20023_2303-AFLD-BB - DIBBLE 20023_2303-AFLD-RR - DIBBLE 20023_2303-AFLD-MRGC-PH2 - DIBBLE 20023_2303-AFLD-MRGC-PH1 - DIBBLE 20023_2303-TW-H-KH 20023_2303-PAT-BB 091134047-VF
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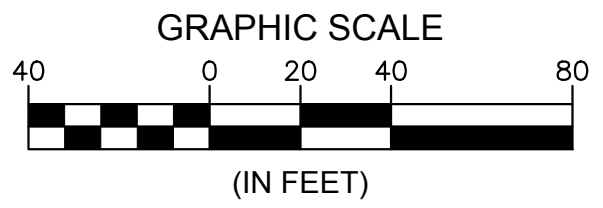


MATCHLINE - SEE SHEET C4-4.1 STA: 230+00

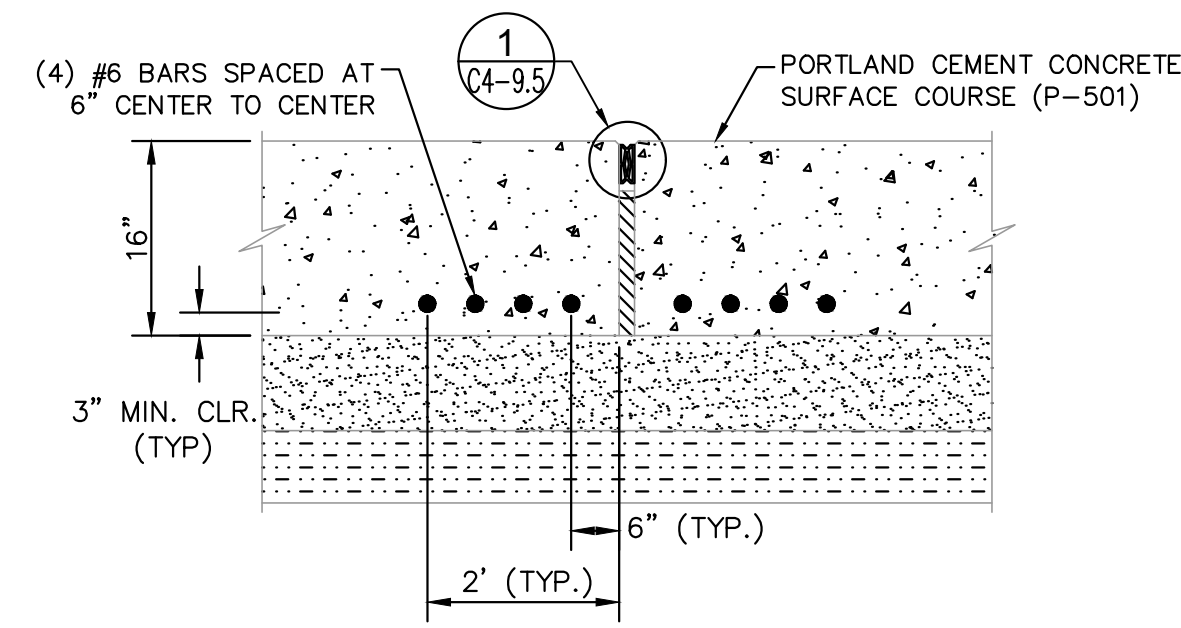
LEGEND

	PORTLAND CEMENT CONCRETE PAVEMENT (P-501)
	AC PAVEMENT SHOULDER (P-403)
	AGGREGATE STABILIZED SHOULDER (P-208)
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION

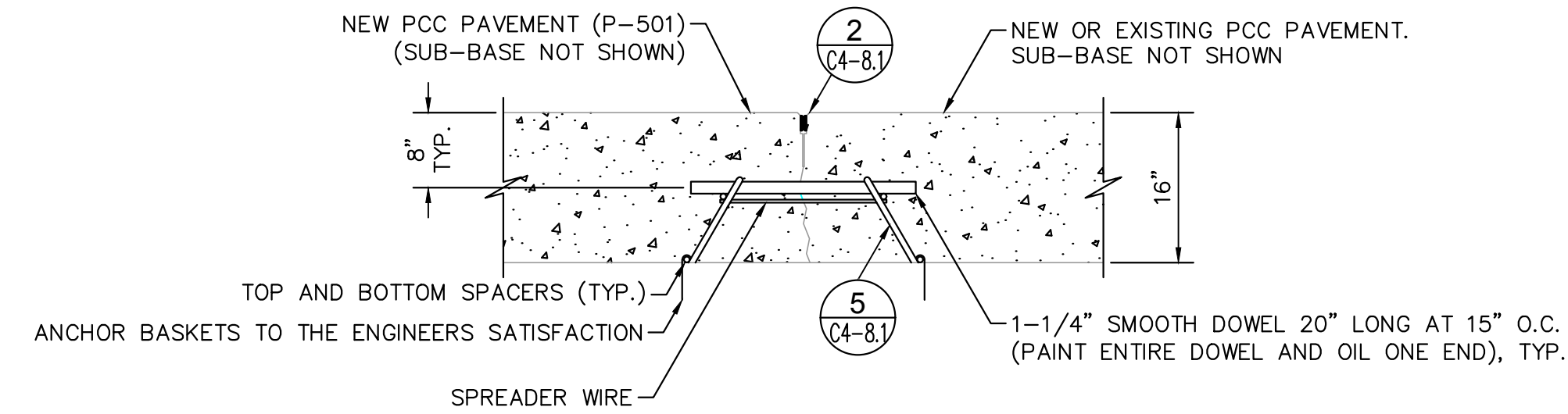
- GENERAL NOTES:**
- REFER TO SHEETS C4-1.1 FOR TYPICAL SECTIONS.
 - SPOT ELEVATIONS SHOWN ARE BASED ON JOINT LAYOUT, REFER TO PAVEMENT JOINT LAYOUT PLAN, SHEETS C4-7.1.
 - REFER TO ELECTRICAL LAYOUT PLANS FOR AIRFIELD LIGHTING AND SIGNING SYSTEM.
 - CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.



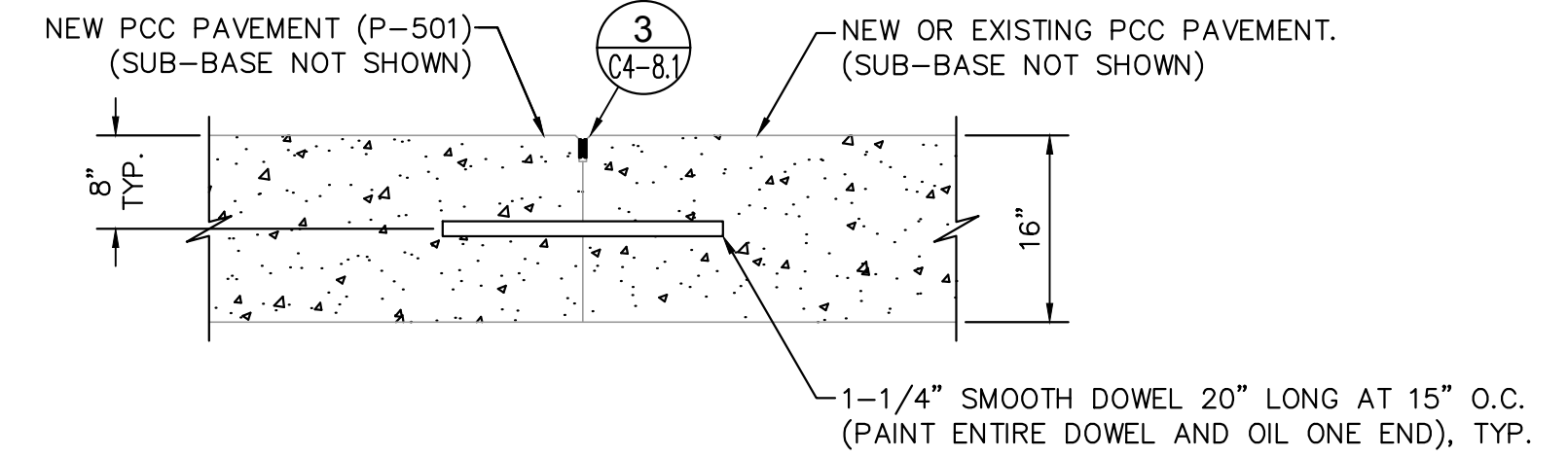
Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 1001 W Southern Ave, Suite 131 Mesa, Arizona 85210 (480) 207-2686							
SCALE		FIRM'S SEAL		FIRM'S NAME		NO. REVISION BY DATE	
Horiz. 1" = 40'							
Vert. N/A							
Date 04/26/2023							
Designed by JIM RAB							
Drawn by JIM RAB							
Checked by JIM RAB							
Approved by SHIR							
PHOENIX-MESA GATEWAY AIRPORT 5835 SOUTH SOSSAMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phixmesagateway.org							
PROJECT NO. 091134047 FILE NO. 091134047PV C4-4.2 SHEET 179 of 211							



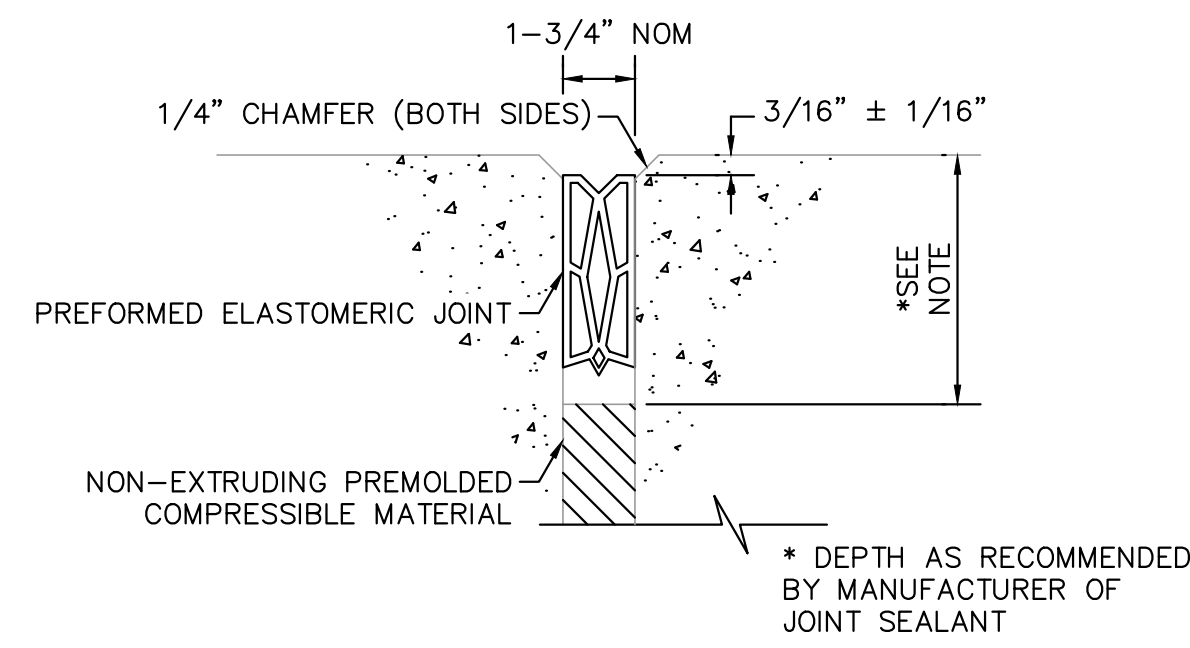
A1
C4-81 TYPE "A1" REINFORCED EXPANSION JOINT
N.T.S.



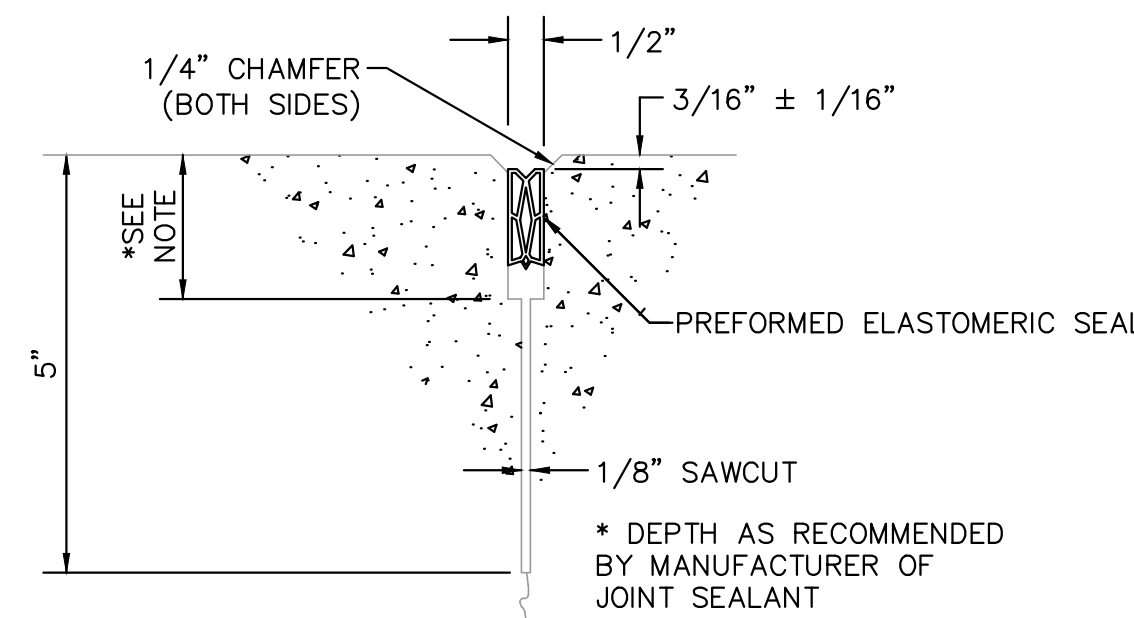
C
C4-81 TYPE C - DOWELED CONTRACTION JOINT
DOWEL BARS SHALL NOT BE PLACED MECHANICALLY
N.T.S.



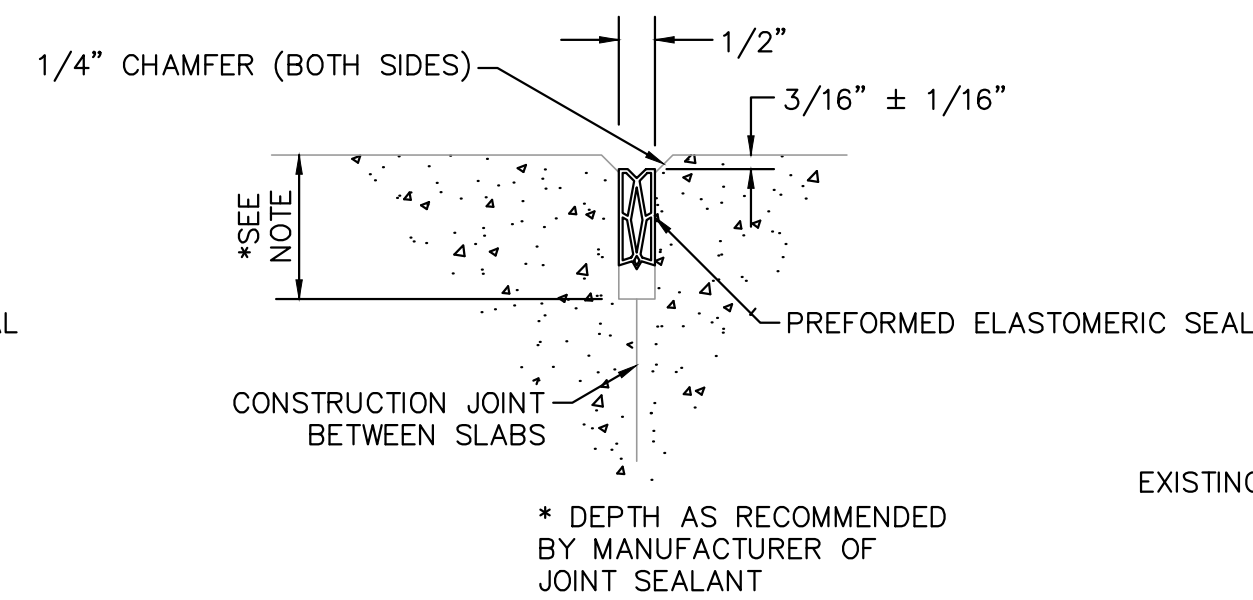
E
C4-81 TYPE E - DOWELED CONSTRUCTION JOINT
DOWEL BARS SHALL NOT BE PLACED MECHANICALLY
N.T.S.



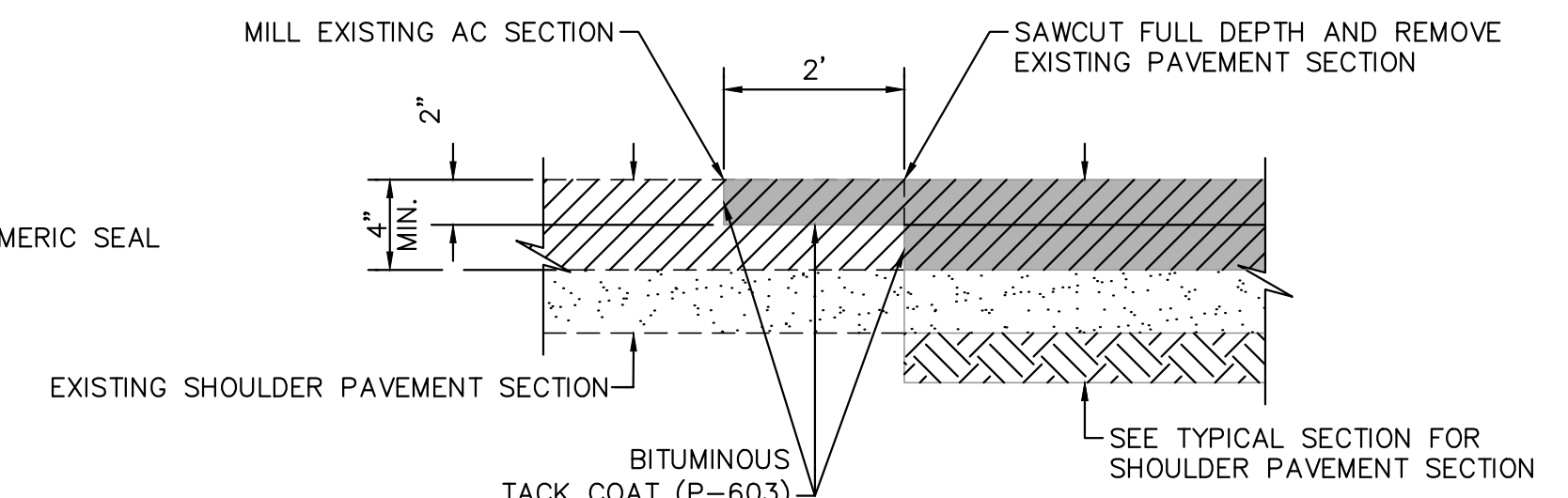
1
C4-81 EXPANSION JOINT
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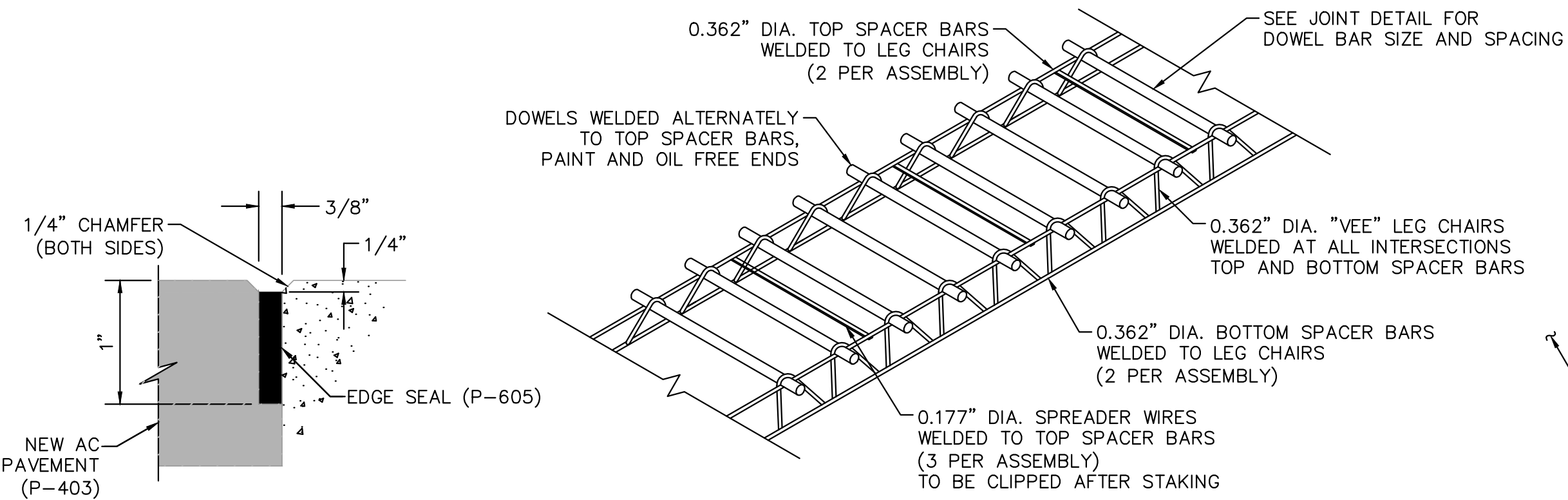
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C4-81 CONTRACTION JOINT
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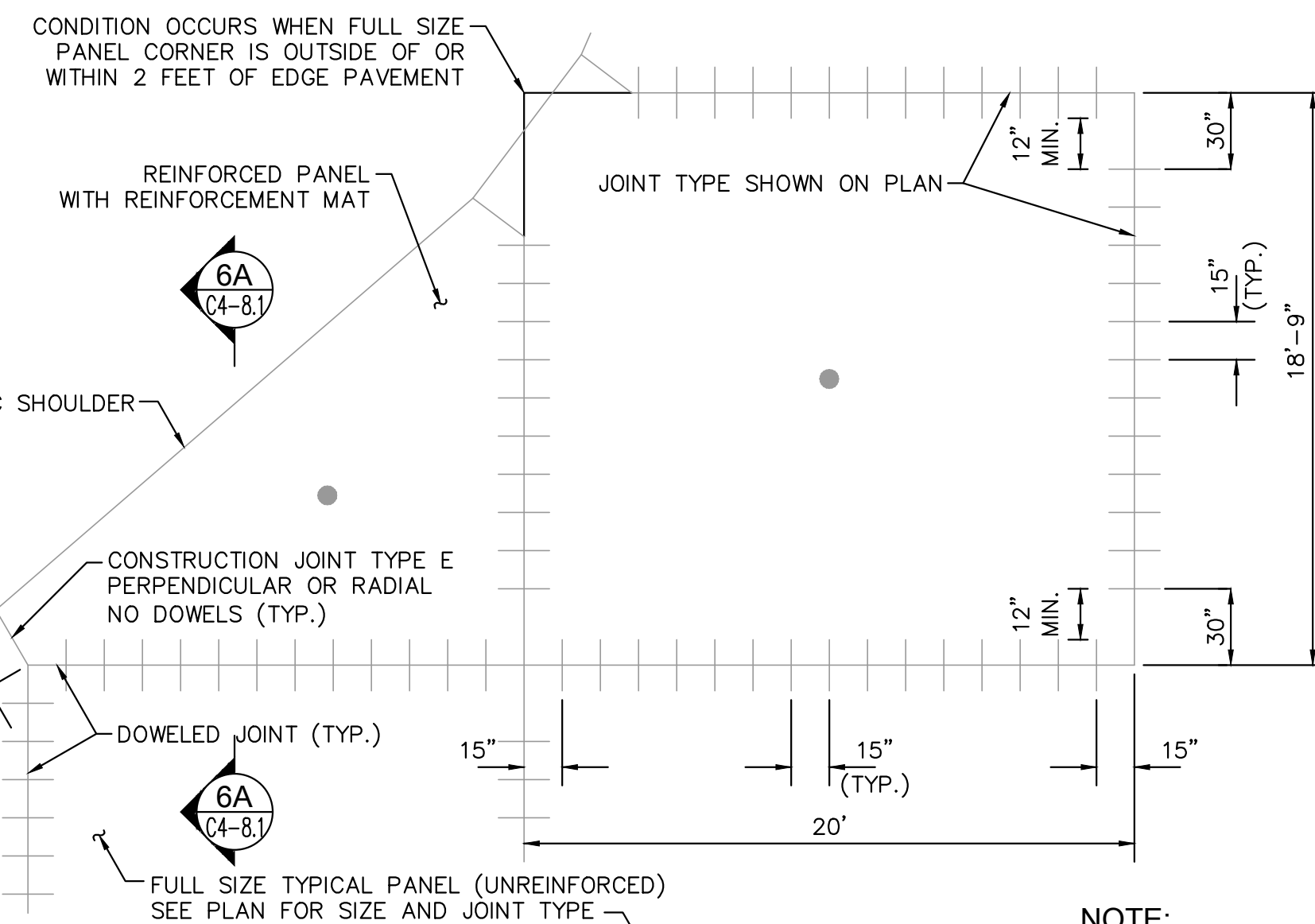
3
C4-81 CONSTRUCTION JOINT
N.T.S.



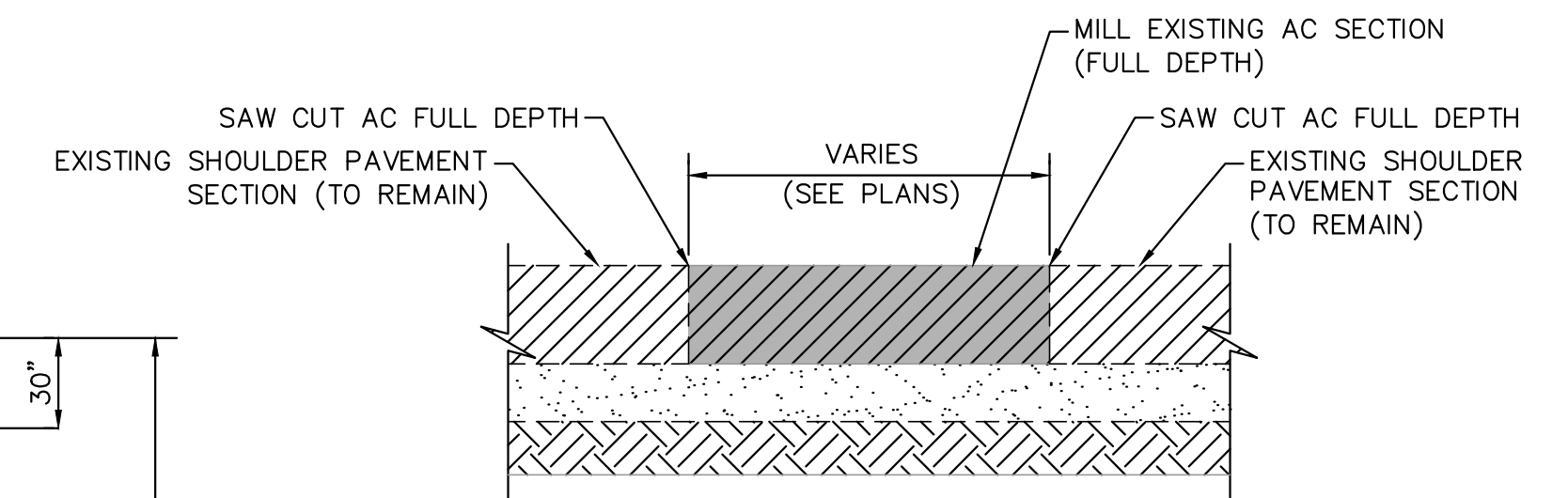
7
C4-81 ASPHALT PAVEMENT TRANSITION
N.T.S.



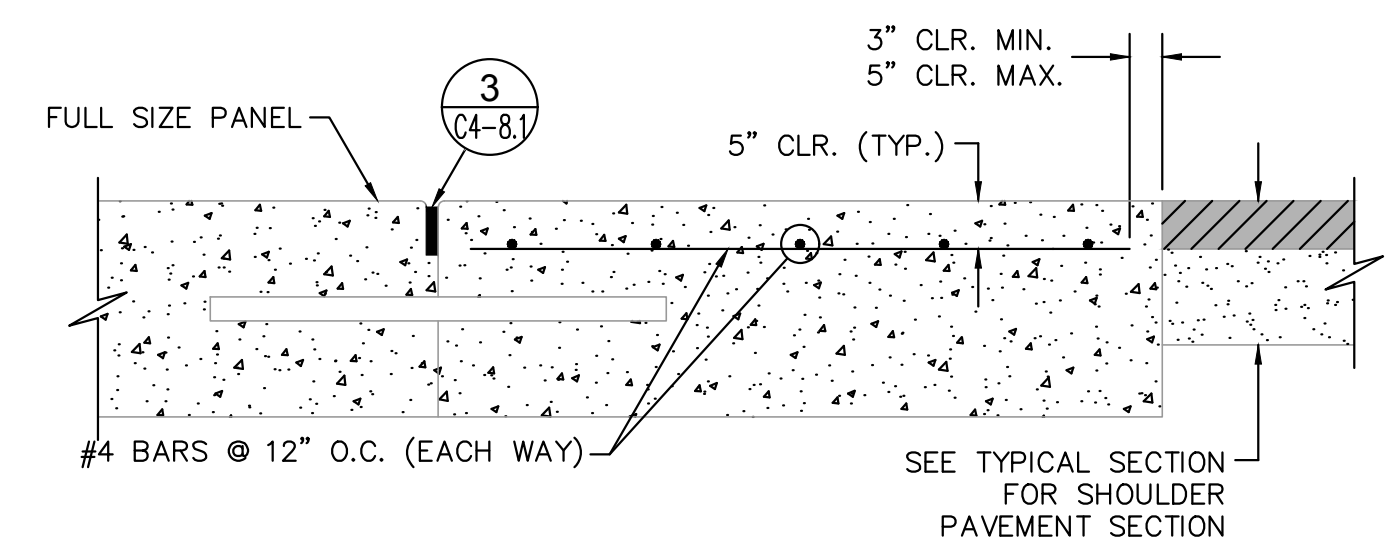
5
C4-81 DOWEL BASKET ASSEMBLY
DOWEL BARS SHALL NOT BE PLACED MECHANICALLY
N.T.S.



6
C4-81 REINFORCED PCC PAVEMENT PANEL
N.T.S.



8
C9.6 ASPHALT PAVEMENT MILL FULL DEPTH
N.T.S.



6A
C4-81 SECTION
N.T.S.

GENERAL NOTES:

- ALL JOINT CONSTRUCTION, MATERIALS AND JOINT SEALER SHALL BE IN ACCORDANCE WITH FAA SPECS P-501 AND P-605 OR AS NOTED.
- ALL MATERIALS AND WORK REQUIRED FOR NEW JOINTS ARE INCIDENTAL TO ITEM P-501.
- THE MATERIALS AND METHODS SHOWN HERE ARE THE MINIMUM REQUIREMENTS.
- DOWELS SHALL BE SHOP PAINTED WITH ONE COAT OF LEAD OR TAR PAINT AND THE DOWEL SHALL BE OILED IN THE FIELD, AS NOTED ON DETAILS.
- DOWEL BAR INSTALLATION DEVICE (DOWEL BASKET) AND METHOD OF ANCHORING INTO POSITION SHALL BE APPROVED BY THE ENGINEER.
- EDGES OF THE SLAB SHALL BE SPRAYED WITH AN APPROVED CURING MATERIAL BEFORE MAKING AN ADJACENT POUR. A TRANSVERSE CONSTRUCTION JOINT SHALL BE INSTALLED WHEN PAVING OPERATIONS ARE INTERRUPTED FOR MORE THAN THIRTY (30) MINUTES OTHER THAN WORK AT EXPANSION JOINTS OR ENDS OF SLABS. IF THE INTERRUPTION IS LESS THAN EIGHT (8) FEET FROM A PLANNED JOINT, THE FRESH CONCRETE SHALL BE REMOVED EITHER BACK TO THE PREVIOUSLY INSTALLED JOINT OR A MINIMUM OF EIGHT (8) FEET TO THE NEXT PLANNED JOINT.
- THE CONTRACTOR SHALL MAKE SPECIAL PROVISIONS TO KEEP THE FINISHED CONCRETE SURFACE FREE OF FOREIGN MATERIAL (I.E. AGGREGATE, OILS, ETC.) THROUGHOUT THE PROJECT. SWEEPERS AND VACUUM TRUCKS SHALL BE UTILIZED AS NECESSARY BY THE CONTRACTOR AND/OR AS DIRECTED BY THE ENGINEER TO MAINTAIN THIS PROVISION.

NOTE:

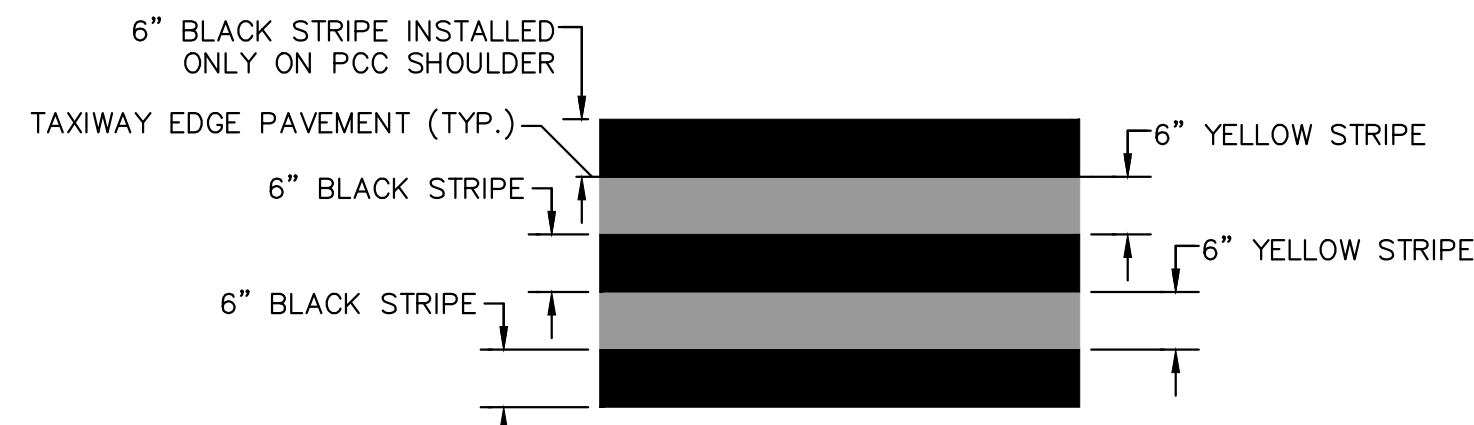
FOR SLAB SIZES NOT CONFORMING TO THE DETAILS SHOWN, DOWEL BARS SHALL BE SPACED 15" ON CENTER, DOWEL BARS SHALL BE SPACED AT LEAST 15" FROM ANY SLAB CORNER.

- THE PAVEMENT SURFACE AND JOINT SHALL BE CLEANED OF SAW CUTTING RESIDUE IMMEDIATELY AFTER EACH JOINT SAWING OPERATION. THE CONTRACTOR SHALL EMPLOY VACUUMING PROCEDURES TO CLEAN THE PAVEMENT SURFACE OF ALL RESIDUE. ADDITIONAL JOINT CLEANING PRIOR TO THE APPLICATION OF JOINT SEALANT SHALL BE ACCOMPLISHED BY MEANS AND METHODS WHICH CREATE NO FUGITIVE DUST.
- ALL CONSTRUCTION JOINTS THAT ARE NOT OPEN AND FREE OF FOREIGN MATERIAL SHALL BE CLEANED BY SAWING FULL WIDTH AND DEPTH.
- SHOULD ANY ITEM IN THESE PLANS CONFLICT WITH THE TECHNICAL SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
- DOWEL BARS SHALL NOT BE PLACED MECHANICALLY.
- THE CONTRACTOR SHALL BE ATTENTIVE TO THE TIMING OF SAWCUTTING TO AVOID CRACKING. SEE DETAIL 2, THIS SHEET, FOR DEPTH OF SAWCUT.
- CONTRACTOR SHALL SAWCUT EXISTING PCC PAVEMENT FULL DEPTH WHERE EXISTING SURFACE EDGE IS NOT VERTICAL.

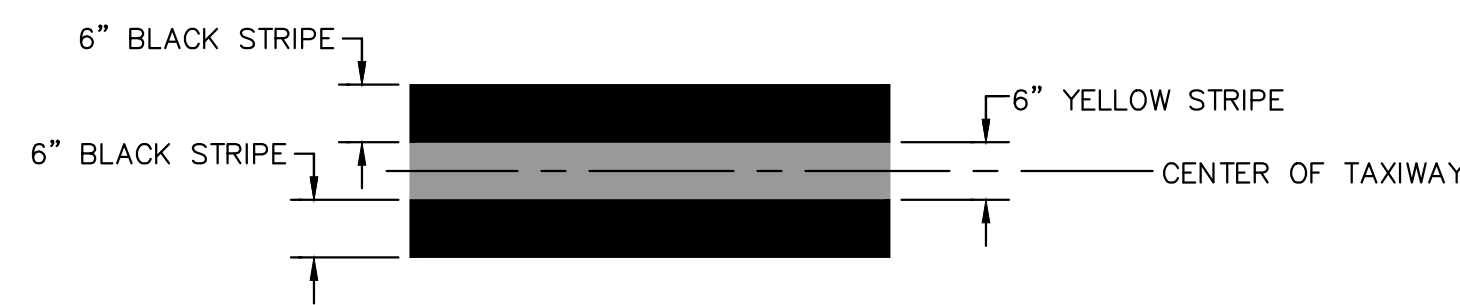


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 I:\Projects\09134047\09134047.dwg Apr 25, 2023 Kou.Dby
 K:\New\09134047\09134047.dwg Apr 25, 2023 Kou.Dby
 XREFS: 09134047-TB
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

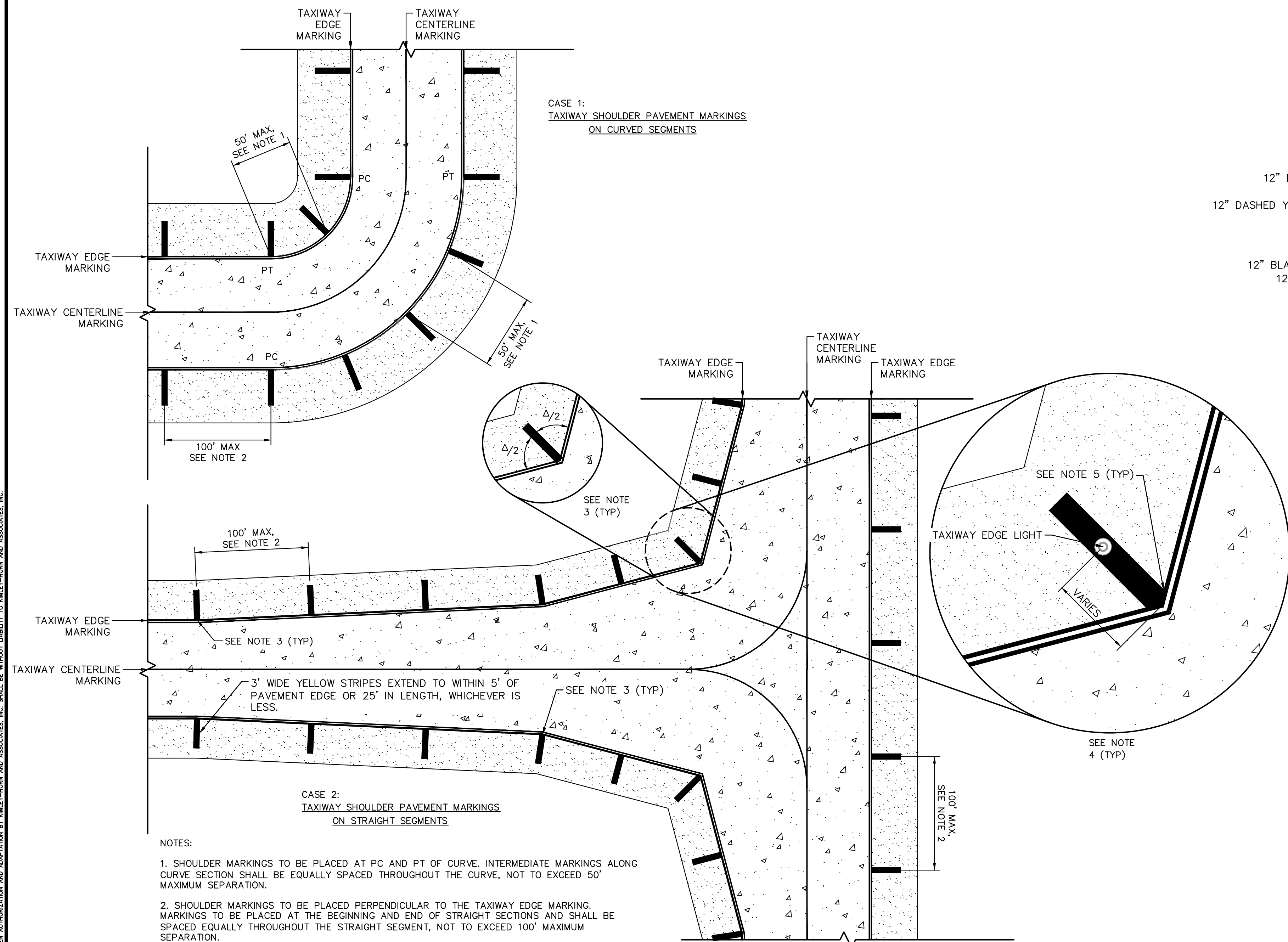
 KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. Southern Ave., Suite 131 Mesa, Arizona 85210 (480) 207-2666	FIRM'S SEAL
SCALE Horiz. _____ Vert. _____	DATE 04/26/2023 DESIGNED BY JIM RAB DRAWN BY JIM RAB CHECKED BY SHR APPROVED BY SHR
 PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phxmesagateway.org	
PROJECT NO. 091134047 FILE NO. 091134047JZ C4-8.1 SHEET 184 of 211	



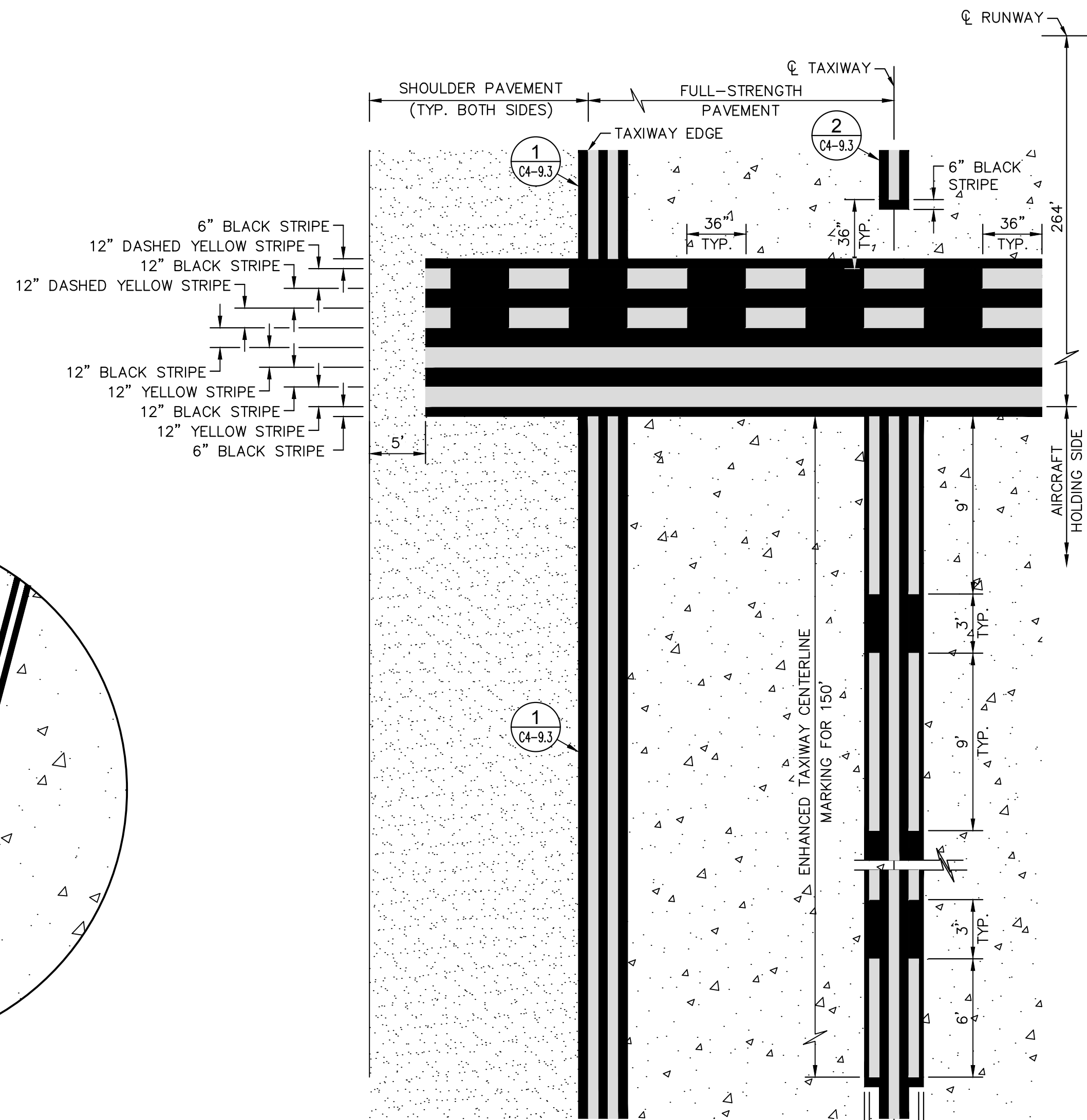
1 TAXIWAY EDGE PAVEMENT MARKING
04-93 N.T.S.



2 TAXIWAY CENTERLINE PAVEMENT MARKING
04-93 N.T.S.



4 TAXIWAY SHOULDER PAVEMENT MARKING LAYOUT
04-93 N.T.S.



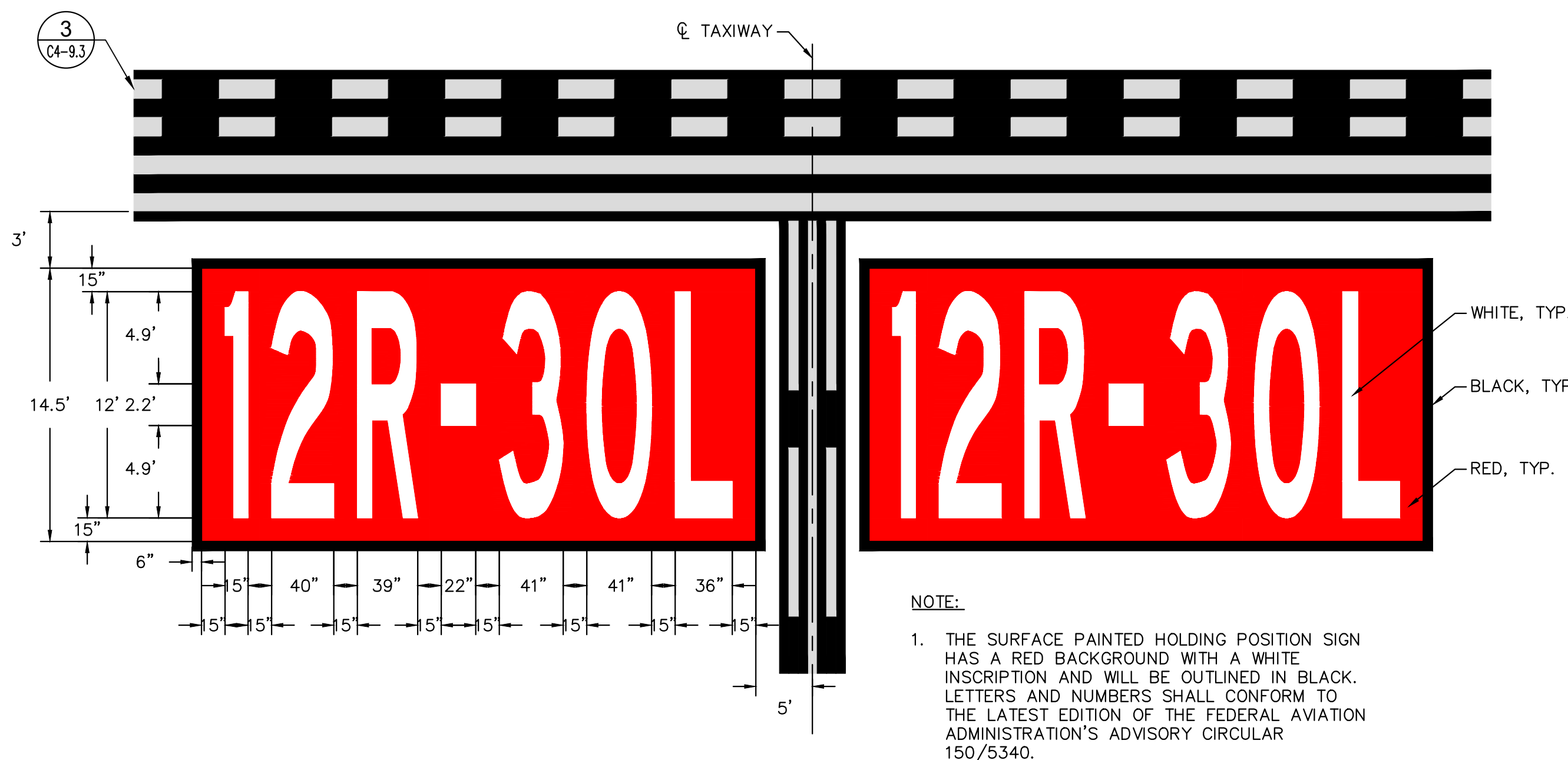
NOTE:
IF THE TAXIWAY CENTERLINE TO BE ENHANCED CONTINUES THROUGH A TAXIWAY/TAXIWAY INTERSECTION THAT IS LOCATED WITHIN 150 FEET OF A RUNWAY HOLDING POSITION MARKING, THE TAXIWAY CENTERLINE ENHANCEMENT MUST BE TERMINATED 5 FEET PRIOR TO THE POINT WHERE THE OTHER TAXIWAY CENTERLINE CROSSES THE ENHANCED TAXIWAY CENTERLINE.

3 ENHANCED RUNWAY HOLDING POSITION PAVEMENT MARKING DETAIL
04-93 N.T.S.



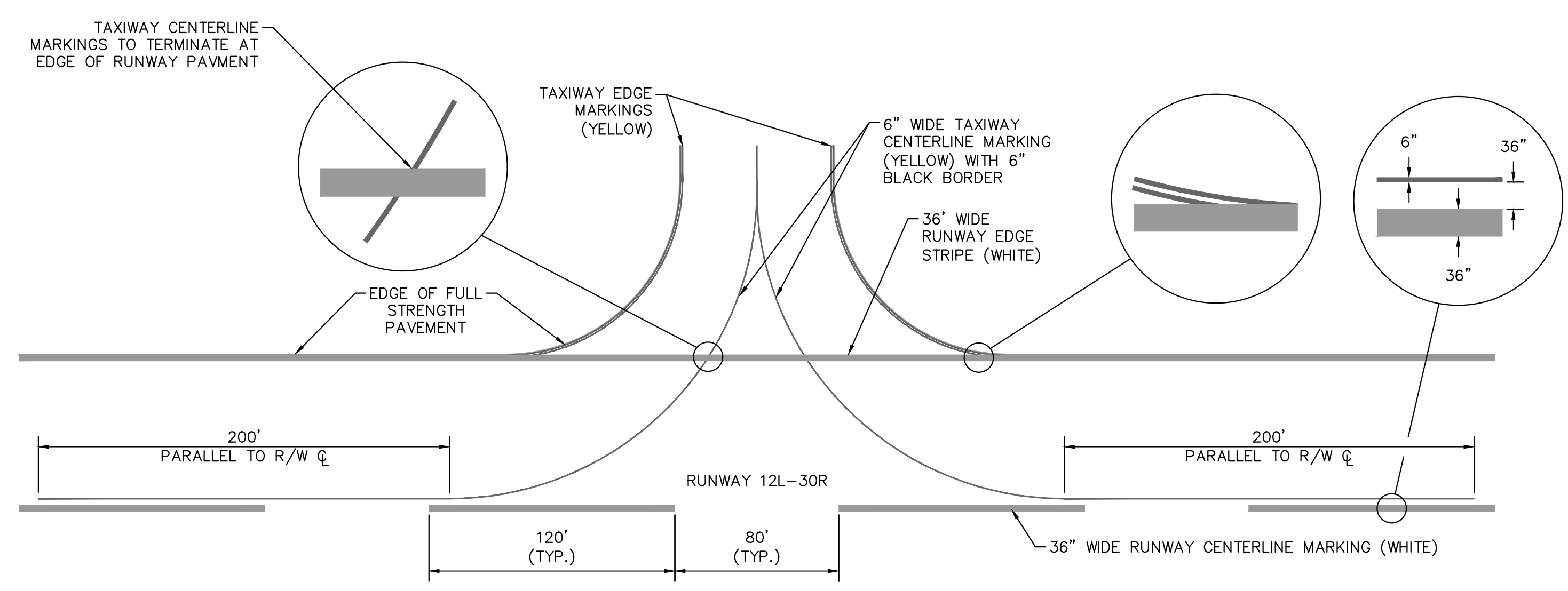
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 KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. Southern Ave., Suite 131 Mesa, Arizona 85210 (480) 207-2686					
SCALE		FIRM'S SEAL		FIRM'S NAME	
Horiz. N/A	Vert. N/A			Kimley-Horn	
DATE		DESIGNED BY		DRAWN BY	
04/26/2023		JIM RAB		JIM RAB	
CHECKED BY		APPROVED BY		FIRM'S NAME	
JIM SHIR		SHIR		Phoenix-Mesa Gateway Airport Authority	
PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phixmesagateway.org					
PROJECT NO. 091134047					
FILE NO. 091134047P2					
C4-9.3					
SHEET 187 of 211					



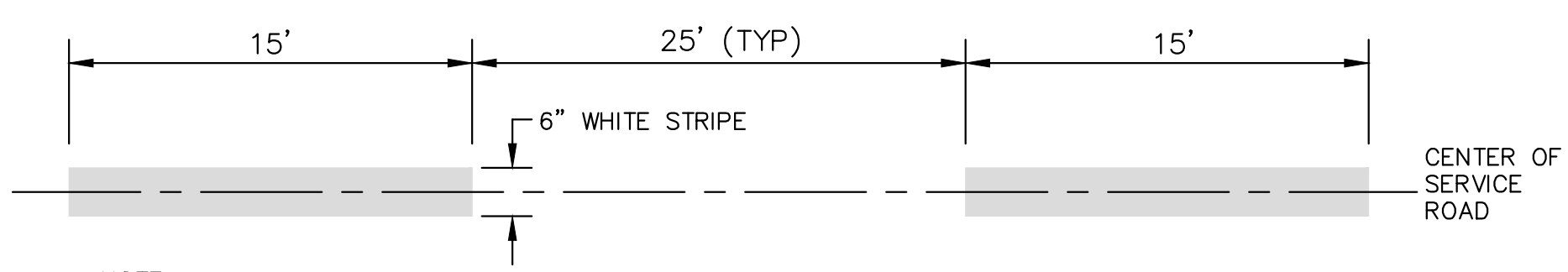
NOTE:
 1. THE SURFACE PAINTED HOLDING POSITION SIGN HAS A RED BACKGROUND WITH A WHITE INSCRIPTION AND WILL BE OUTLINED IN BLACK. LETTERS AND NUMBERS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR 150/5340.

1 SURFACE PAINTED HOLDING POSITION SIGN DETAIL (12R-30L)
 N.T.S.



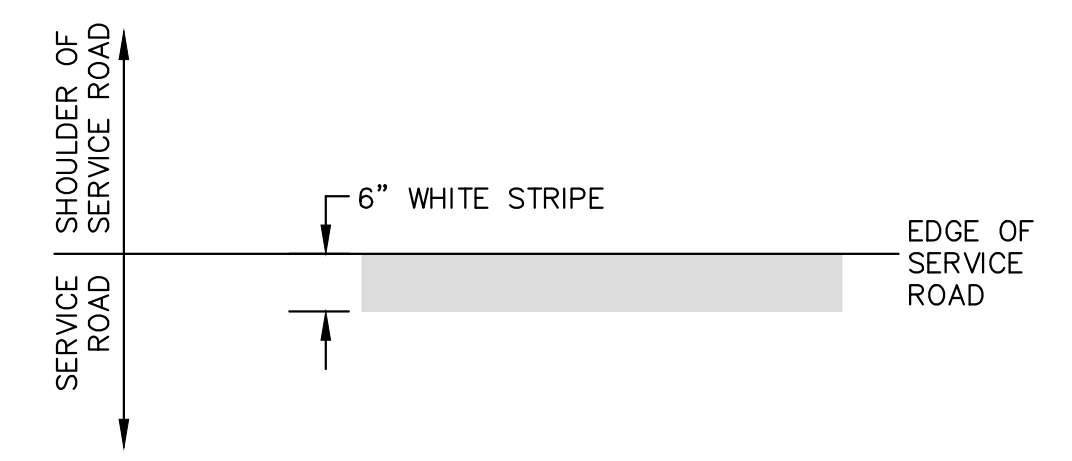
NOTE:
 RUNWAY CENTERLINE DIMENSIONS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE PLANS

2 RUNWAY/TAXIWAY INTERSECTION DETAIL
 N.T.S.

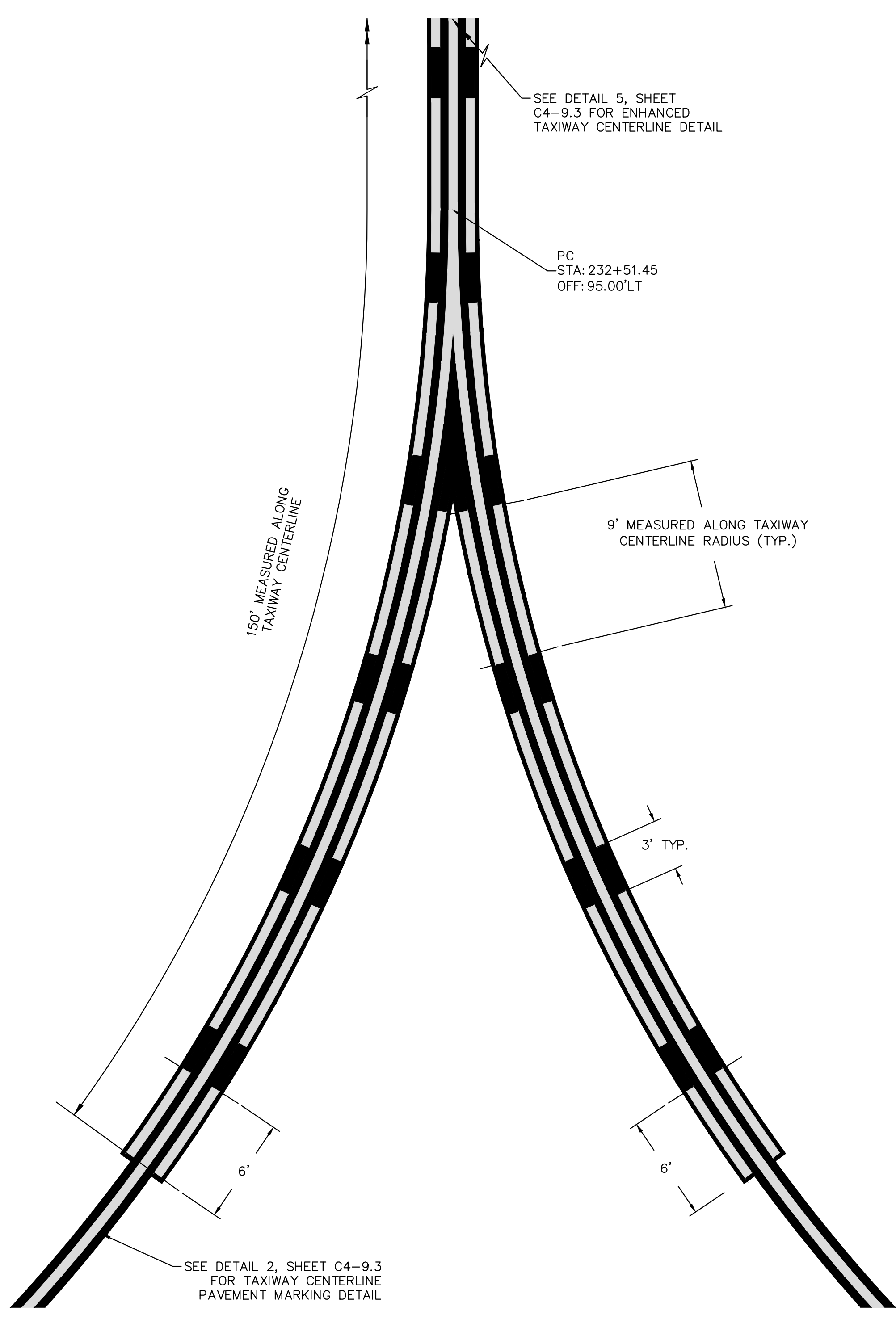


NOTE:
 1. TYPICAL LINE AND GAP DISTANCES MAY NEED TO BE ADJUSTED IN FIELD DUE TO EXISTING TIE-IN CONDITIONS.

4 SERVICE ROAD CENTERLINE PAVEMENT MARKING
 N.T.S.



5 SERVICE ROAD EDGE PAVEMENT MARKING
 N.T.S.



3 ENHANCED TAXIWAY CENTERLINE ON RADIUS DETAIL
 N.T.S.

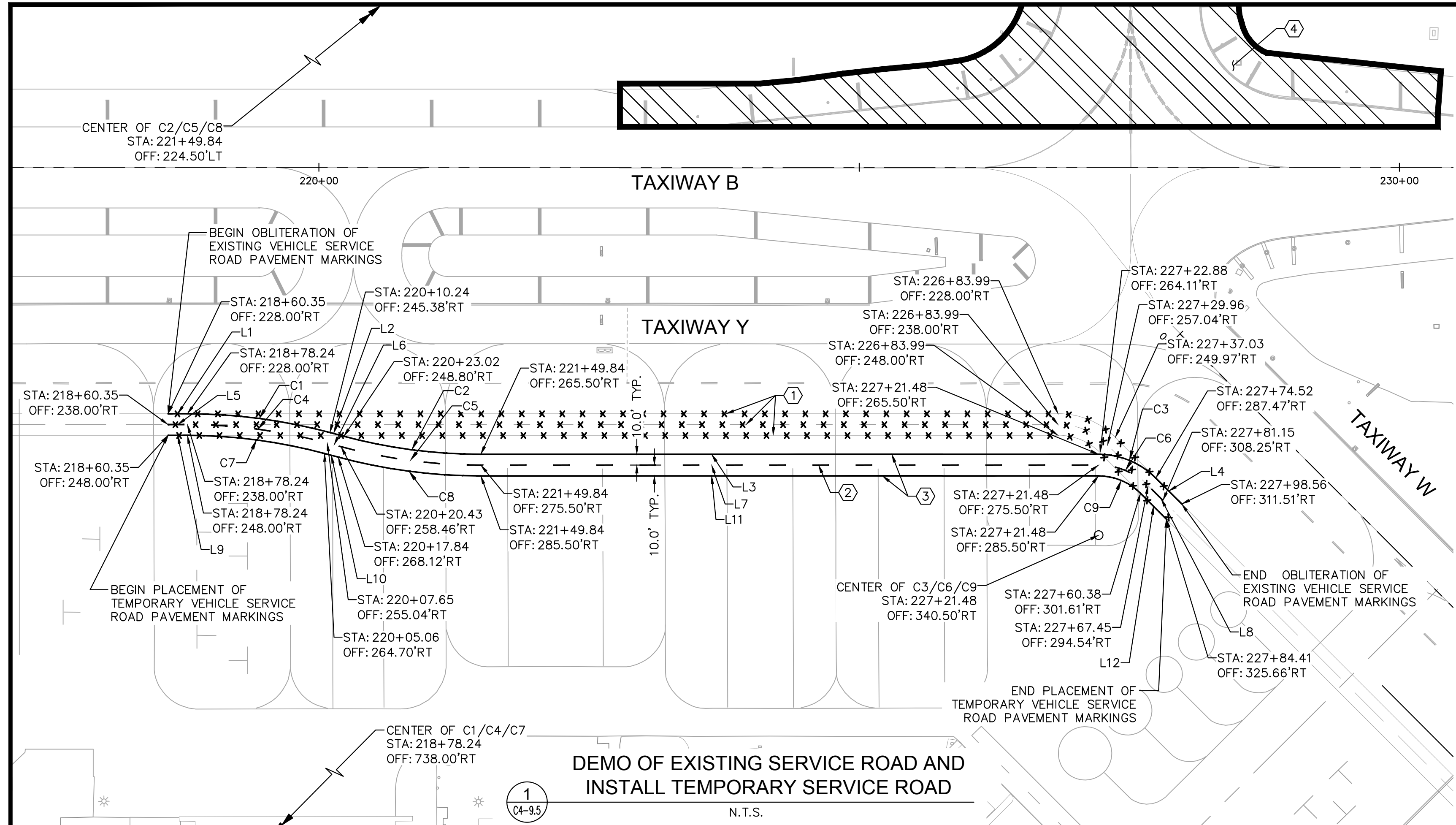
GENERAL NOTES

- RUNWAY AND TAXIWAY PAINT WITH GLASS BEADS SHALL BE USED FOR ALL WHITE AND YELLOW PERMANENT PAVEMENT MARKINGS ONLY.
- PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL GOVERN.



NO.	REVISION	BY	DATE
Kimley»Horn			
<small>KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. Southern Ave., Suite 131 Mesa, Arizona 85210 (480) 207-2666</small>			
Phoenix-Mesa Gateway Airport PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH GOSSAMMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phixmesagateway.org			
PROJECT NO. 091134047 FILE NO. 091134047PZ C4-9.4 SHEET 188 of 211			

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 XREFS: 091134047-TB 091134047-BM 091134047-VF
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LINE TABLE

LINE	LENGTH	BEARING
L1	17.89	S44°34'24.71"E
L2	13.23	S29°34'24.70"E
L3	427.08	S44°34'24.70"E
L4	87.02	S0°25'58.93"W
L5	17.89	S44°34'24.71"E
L6	13.23	S29°34'24.71"E
L7	427.08	S44°34'24.70"E
L8	34.00	S0°25'58.93"W
L9	17.89	S44°34'24.71"E
L10	13.23	S29°34'24.71"E
L11	427.08	S44°34'24.70"E
L12	34.00	S0°25'58.93"W

CURVE TABLE

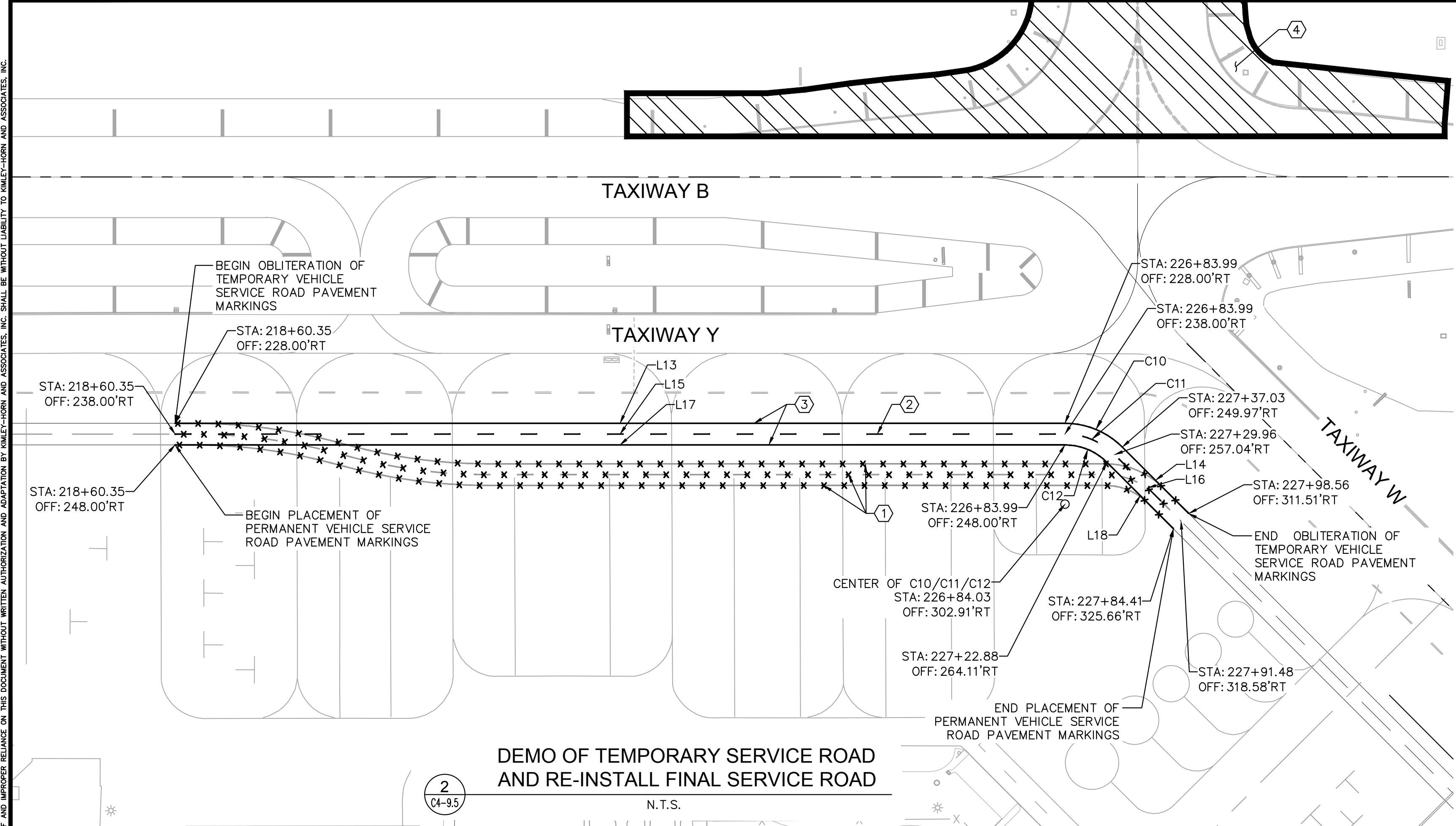
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	510.00'	133.52'	S37°04'25"E	133.14'	15°00'00"	67.14'
C2	490.00'	128.28'	S37°04'25"E	127.92'	15°00'00"	64.51'
C3	75.00'	58.91'	S22°04'13"E	57.41'	45°00'24"	31.07'
C4	500.00'	130.90'	S37°04'25"E	130.53'	15°00'00"	65.83'
C5	500.00'	130.90'	S37°04'25"E	130.53'	15°00'00"	65.83'
C6	65.00'	51.06'	S22°04'13"E	49.76'	45°00'24"	26.93'
C7	490.00'	128.28'	S37°04'25"E	127.92'	15°00'00"	64.51'
C8	510.00'	133.52'	S37°04'25"E	133.14'	15°00'00"	67.14'
C9	55.00'	43.20'	S22°04'13"E	42.10'	45°00'24"	22.79'

LINE TABLE

LINE	LENGTH	BEARING
L13	823.64	S44°34'24.71"E
L14	87.02	S0°25'58.93"W
L15	823.64	S44°34'24.71"E
L16	87.02	S0°25'58.93"W
L17	823.64	S44°34'24.71"E
L18	87.02	S0°25'58.93"W

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C10	75.00'	58.91'	S22°04'13"E	57.41'	45°00'24"	31.07'
C11	65.00'	51.06'	S22°04'13"E	49.76'	45°00'24"	26.93'
C12	55.00'	43.20'	S22°04'13"E	42.10'	45°00'24"	22.79'



LEGEND

- XXXX OBLITERATE EXISTING PAVEMENT MARKINGS
- PROPOSED VEHICLE SERVICE ROAD PAVEMENT MARKINGS
- ▨ PROJECT AREA

GENERAL NOTES:

TEMPORARY SERVICE ROAD MARKINGS MUST BE INSTALLED (PER DETAIL 1, THIS SHEET) PRIOR TO CLOSING THE TAXIWAY H & TAXIWAY B INTERSECTION AND STARTING PHASE 1B.

TEMPORARY SERVICE ROAD MARKINGS AND ASSOCIATED OBLITERATIONS MUST BE COMPLETE AT NIGHT, FROM MIDNIGHT TO 6:00AM, WHILE THE ADJACENT TAXIWAYS ARE CLOSED TO AIR TRAFFIC. EXACT DATE OF TEMPORARY SERVICE ROAD WORK MUST BE COORDINATED WITH THE AIRPORT AT LEAST 72 HOURS PRIOR, AND MAY ONLY PROCEED WITH APPROVAL FROM THE AIRPORT.

TEMPORARY SERVICE ROAD MARKINGS MUST BE OBLITERATED AND FINAL SERVICE ROAD MARKINGS MUST BE INSTALLED (PER DETAIL 2, THIS SHEET) PRIOR TO RE-OPENING THE TAXIWAY H & TAXIWAY B INTERSECTION AND COMPLETING PHASE 1B.

FINAL SERVICE ROAD MARKINGS AND ASSOCIATED OBLITERATIONS MUST BE COMPLETE AT NIGHT, FROM MIDNIGHT TO 6:00AM, WHILE THE ADJACENT TAXIWAYS ARE CLOSED TO AIR TRAFFIC. EXACT DATE OF TEMPORARY SERVICE ROAD WORK MUST BE COORDINATED WITH THE AIRPORT AT LEAST 72 HOURS PRIOR, AND MAY ONLY PROCEED WITH APPROVAL FROM THE AIRPORT.

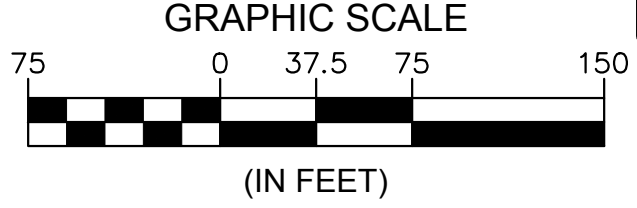
CONTRACTOR TO REPAIR PAVEMENT MARKINGS ON THE APRON, SERVICE ROAD, OR ADJACENT TAXIWAY AREAS AS NECESSARY DUE TO CONTRACTOR RELATED CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL TOUCH UP OR REMARK ANY TAXIWAY, TAXIWAY, OR APRON MARKINGS AFFECTED BY THE OBLITERATION/INSTALLATION OF THE TEMPORARY/FINAL SERVICE ROAD (NIP)

TEMPORARY SERVICE ROAD CONSTRUCTION NOTES:

- 1 OBLITERATE EXISTING SERVICE ROAD MARKINGS
- 2 INSTALL SIX-INCH (6") WHITE SERVICE ROAD CENTERLINE PAVEMENT MARKINGS PER DETAIL 4, SHEET C4-9.4
- 3 INSTALL SIX-INCH (6") WHITE SERVICE ROAD EDGE PAVEMENT MARKINGS PER DETAIL 5, SHEET C4-9.4
- 4 REFER TO DIBBLE SHEETS G1-2.3 AND G1-2.4 FOR DETAILED PHASING INFORMATION.

K:\New\091134047 - Phoenix Mesa Gateway Airport Taxiway B2 (Taxiway H Relocation) - PHOENIX MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) - (SCH IV) TEMPORARY SERVICE ROAD MARKING DETAILS
 DATE: 04-26-2023
 DESIGNED BY: JMM
 DRAWN BY: JMM
 CHECKED BY: JMM
 APPROVED BY: SHR
 SCALE: 1" = 75'
 DATE: 04/26/2023
 DESIGNED BY: JMM
 DRAWN BY: JMM
 CHECKED BY: JMM
 APPROVED BY: SHR
 SCALE: 1" = 75'
 DATE: 04/26/2023
 DESIGNED BY: JMM
 DRAWN BY: JMM
 CHECKED BY: JMM
 APPROVED BY: SHR

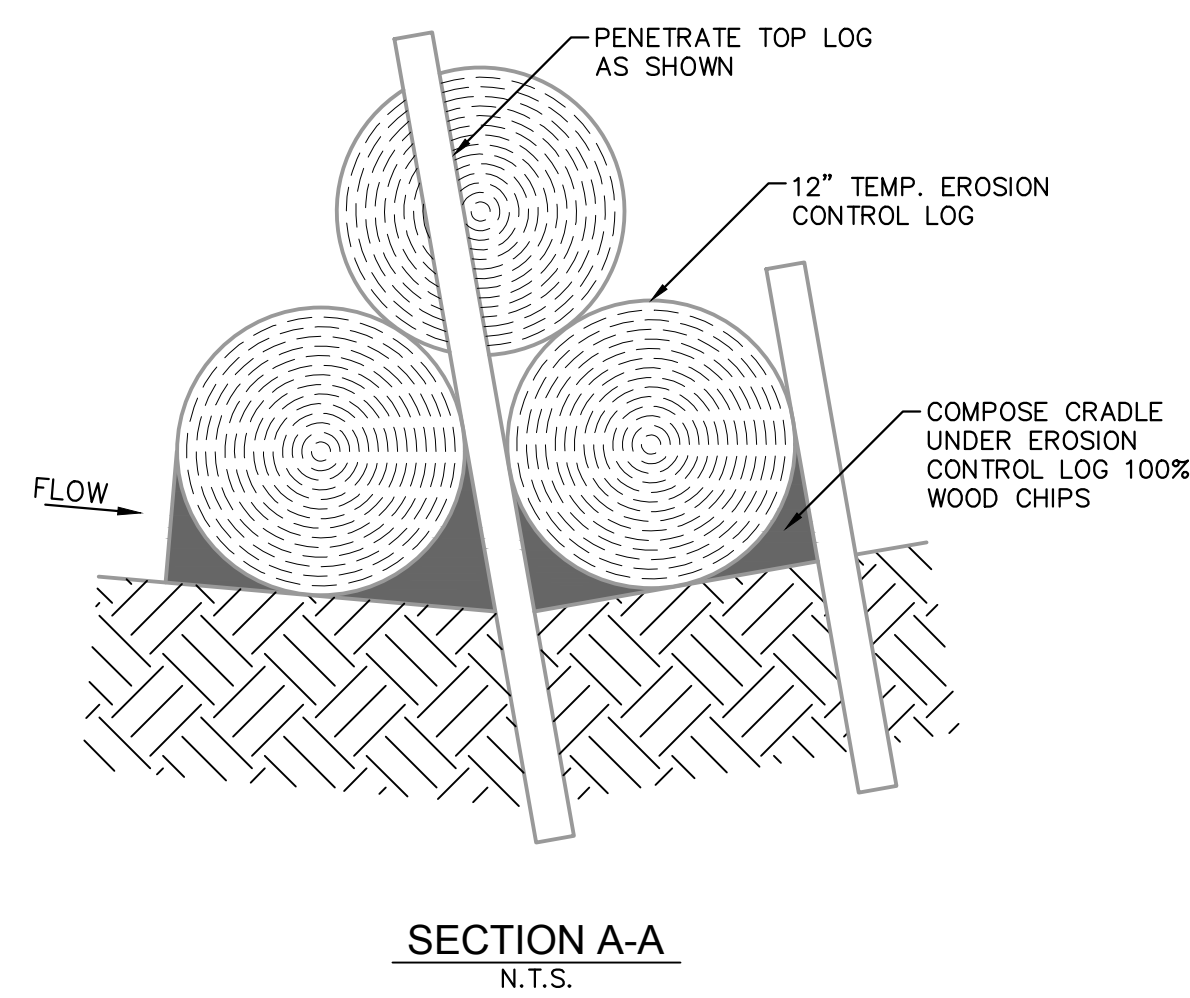
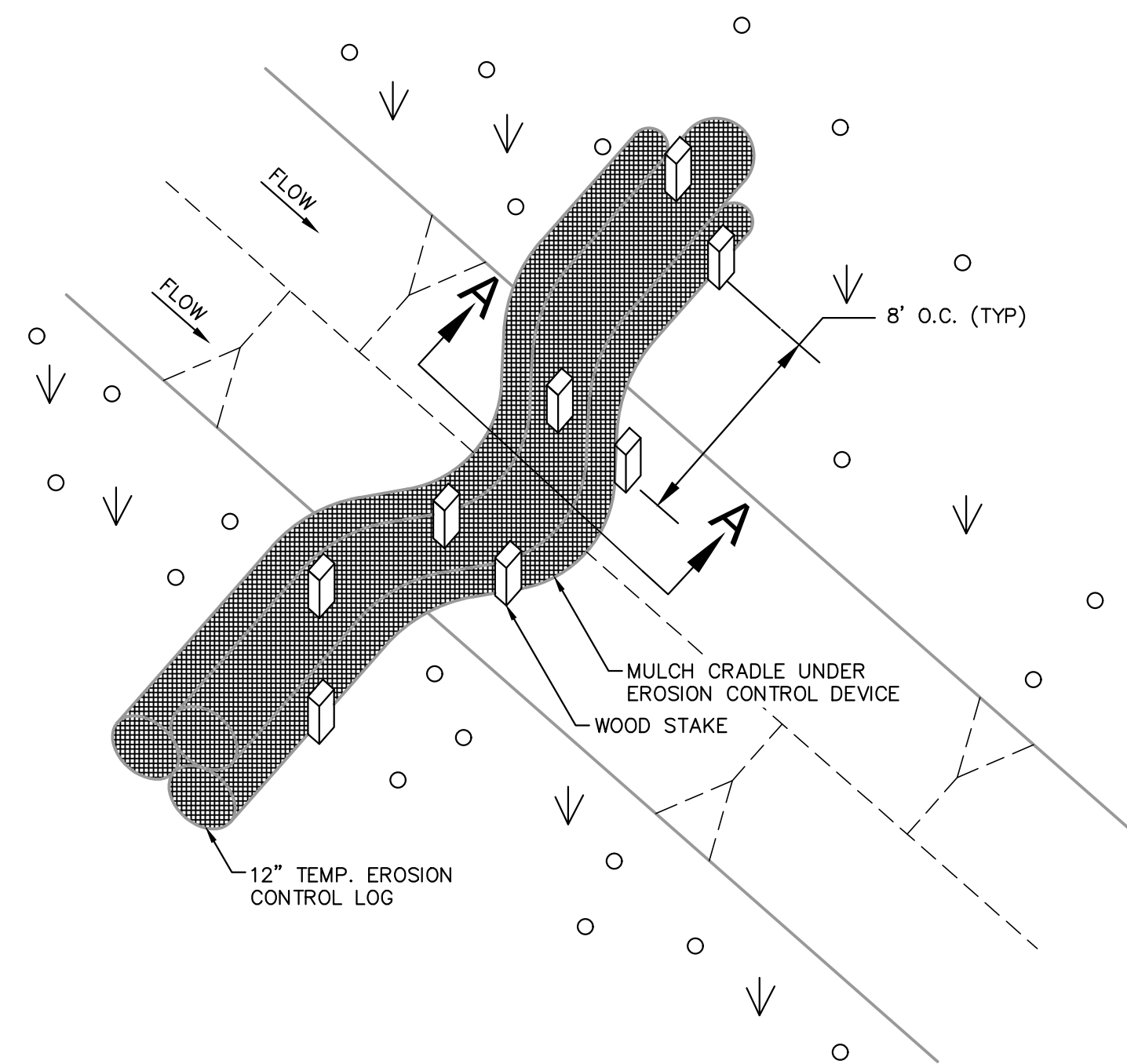


Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 1001 W. Southern Ave., Suite 131
 Mesa, Arizona 85210 (480) 207-2686

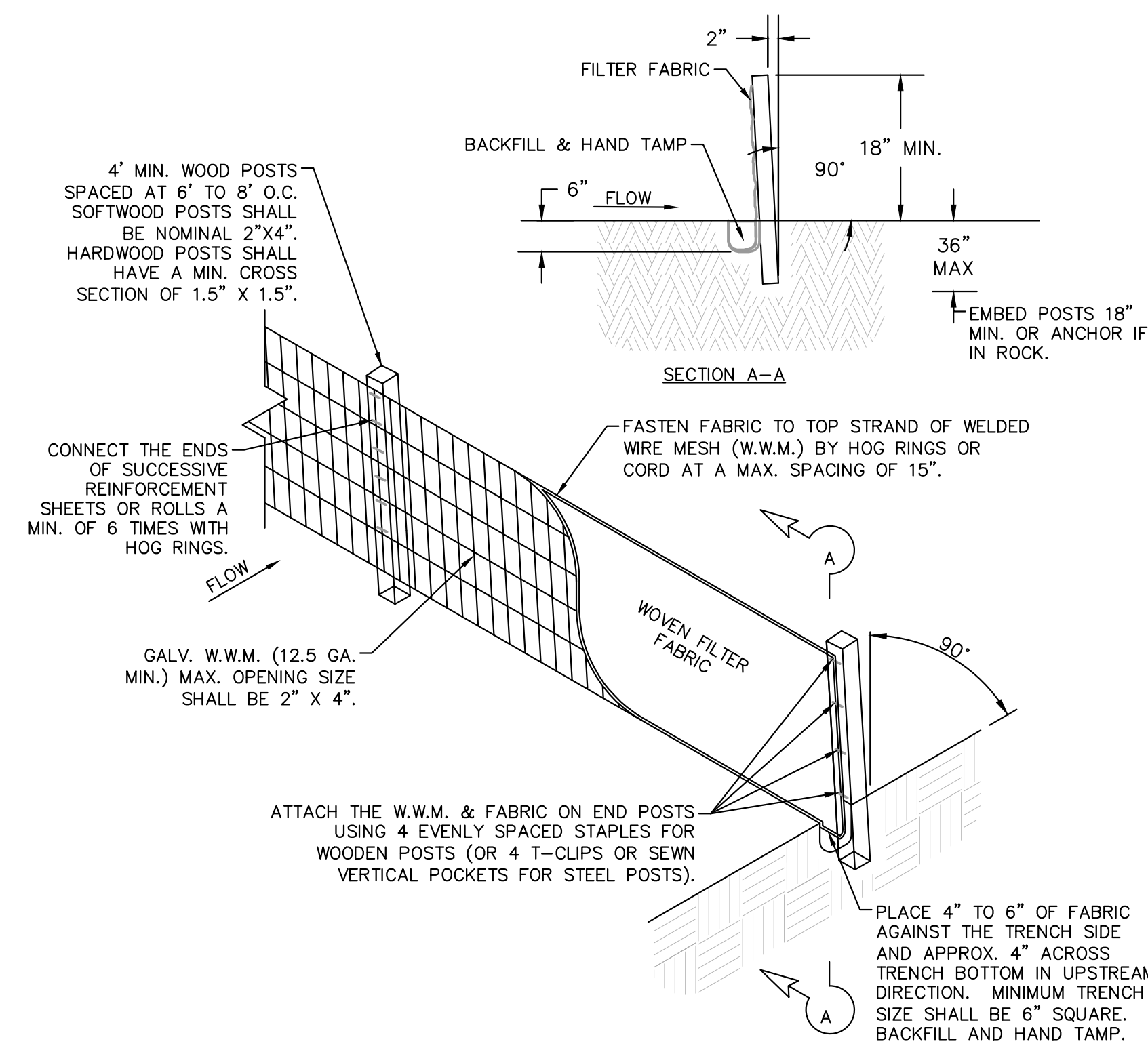
Phoenix-Mesa Gateway Airport
 PHOENIX-MESA GATEWAY AIRPORT AUTHORITY
 5835 SOUTH SOSSAMANN ROAD
 MESA, ARIZONA 85212
 (480) 988-7600
 www.phxmesagateway.org

PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) TEMPORARY SERVICE ROAD MARKING DETAILS

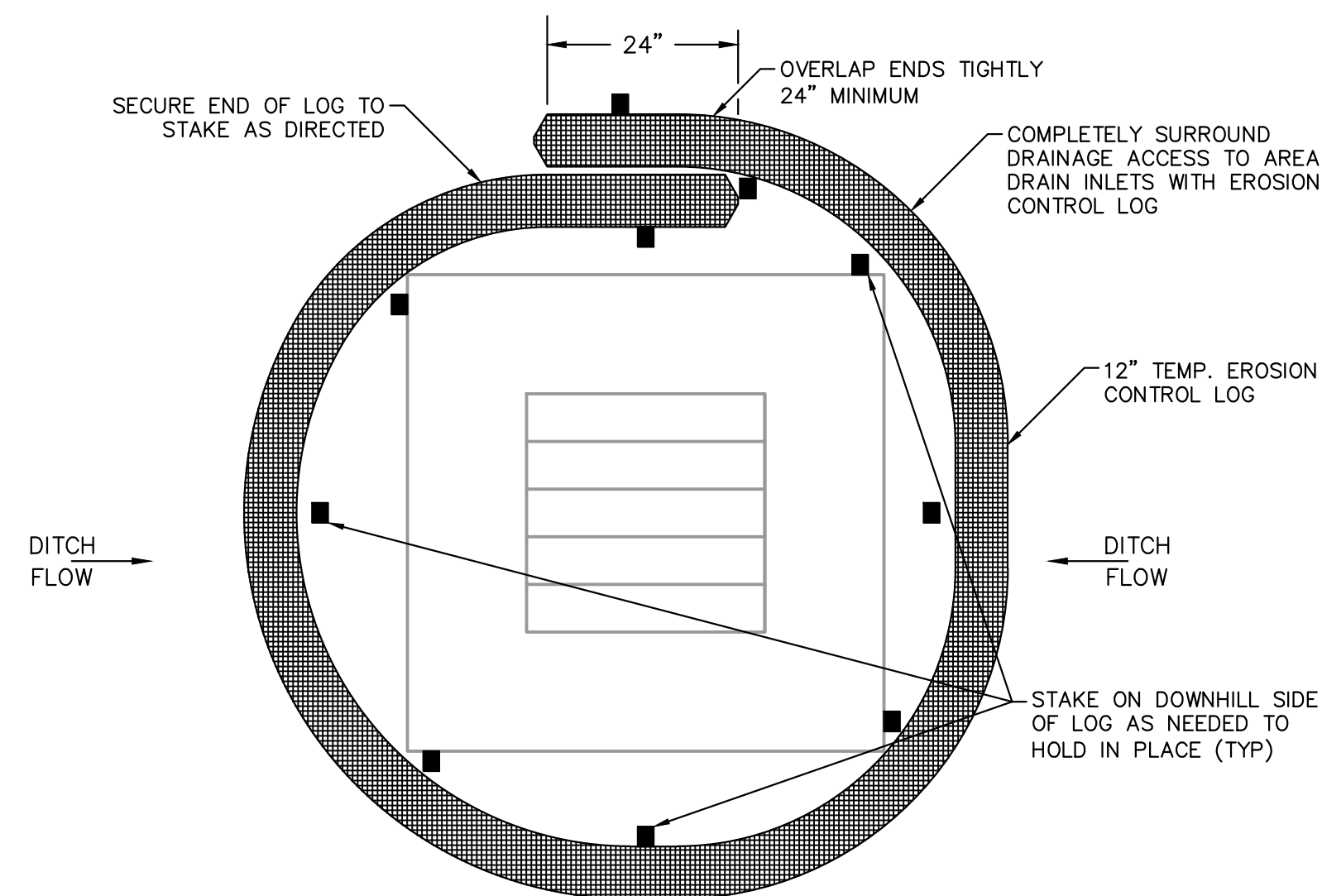
PROJECT NO. 091134047
 FILE NO. 091134047PV02
C4-9.5
 SHEET 189 of 211



1
C4-10.3
DITCH LINE SEDIMENT TRAP
N.T.S.



2
C4-10.3
TEMPORARY SEDIMENT CONTROL FENCE
N.T.S.



3
C4-10.3
DROP INLET SEDIMENT TRAP
N.T.S.

GENERAL NOTES

- IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND/OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
- MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
- THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
- SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES AT 6:1 OR FLATTER.
- MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
- FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
- THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
- ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT AND SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
- SACK GABIONS SHOULD BE STAKED DOWN FROM 3/4" DIA. REBAR STAKES.
- FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.)
- THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

SEDIMENT TRAP USAGE GUIDELINES

A SEDIMENT TRAP MAY BE USED TO PRECIPITATE SEDIMENT OUT OF RUNOFF DRAINING FROM AN UNSTABILIZED AREA.

TRAPS: THE DRAINAGE AREA FOR A SEDIMENT TRAP SHOULD NOT EXCEED 5 ACRES. THE TRAP CAPACITY SHOULD BE 1800 CF/ACRE (0.5" OVER THE DRAINAGE AREA).

THE TRAP SHOULD BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 1/2 OR THE SEDIMENT HAS ACCUMULATED TO A DEPTH OF 6", WHICHEVER IS LESS. CLEANING AND REMOVAL OF ACCUMULATED SEDIMENT DEPOSITS IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.

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FIRM'S SEAL 	FIRM'S NAME Kimley-Horn
SCALE Horiz. N/A Vert. N/A	PROJECT NO. 091134047
Date: 04/26/2023 Designed by: JMM Drawn by: RAB Checked by: JMM Approved by: SHR	FILE NO. 091134047SWDT
Phoenix-Mesa Gateway Airport Taxiway B2 (Taxiway H Relocation)	SHEET C4-10.3
Stormwater Pollution Prevention Details (SCH IV)	SHEET 192 of 211

NOTE:

BORING LOGS SHOWN FOR REFERENCE ONLY. ACTUAL FIELD CONDITIONS MAY VARY.

ACS SERVICES LLC					
BORING B-1					
For:		Kimley Horn		Date:	3/4/2020
Project:		Taxiway H Relocation		Type of Boring:	6.625-inch HS Auger
Location:		6033 S. Sossaman Road		Field Engineer:	Geoffrey Matthew, EIT
		Mesa, AZ		Location:	See Site Plan
Remarks: Ring sample obtained from 1.5 to 2.0 feet					
Depth (Feet)	Blows per 6"	Moisture %	Dry Density (PCF)	USCS Soil Class	Description of Subsurface Conditions
1	4	9.5		SM-SC	Brown silty-clayey SAND with gravel, loose, slightly damp, PI of 5
2	3	9.5		SM-SC	Brown silty-clayey SAND with gravel, loose slightly damp, PI of 5
3	3				
4	5	11.7		CL	Brown sandy CLAY, stiff, slightly damp, PI of 10
5					
6					
7					
8					
9					
10					Terminated boring at 10.0 feet
11					
12					
13					
14					
15					
16					
17					

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 Minimize Risk • Ensure Public Safety • Maximize Success

ACS SERVICES LLC					
BORING B-2					
For:		Kimley Horn		Date:	3/4/2020
Project:		Taxiway H Relocation		Type of Boring:	6.625-inch HS Auger
Location:		6033 S. Sossaman Road		Field Engineer:	Geoffrey Matthew, EIT
		Mesa, AZ		Location:	See Site Plan
Remarks: Ring sample obtained from 1.5 to 2.0 feet					
Depth (Feet)	Blows per 6"	Moisture %	Dry Density (PCF)	USCS Soil Class	Description of Subsurface Conditions
1	4	13.0		CL	Brown sandy CLAY trace gravel, loose, slightly damp, PI of 15
2	2				
3	3	13.0		CL	Brown sandy CLAY trace gravel, loose slightly damp, PI of 15
4	4				
5				SC	Brown clayey SAND, stiff, slightly damp, low PI
6					
7					
8					
9					
10					Terminated boring at 10.0 feet
11					
12					
13					
14					
15					
16					
17					

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ACS SERVICES LLC					
BORING B-3					
For:		Kimley Horn		Date:	3/4/2020
Project:		Taxiway H Relocation		Type of Boring:	6.625-inch HS Auger
Location:		6033 S. Sossaman Road		Field Engineer:	Geoffrey Matthew, EIT
		Mesa, AZ		Location:	See Site Plan
Remarks: Ring sample obtained from 1.5 to 2.0 feet					
Depth (Feet)	Blows per 6"	Moisture %	Dry Density (PCF)	USCS Soil Class	Description of Subsurface Conditions
1		13.0		CL	Brown sandy CLAY, loose, slightly damp, PI of 15
2					
3		13.0		CL	Brown sandy CLAY, loose, damp, PI of 15
4					
5	3			SC	Brown clayey SAND, stiff, slightly damp, low PI
6	7				
7					
8					
9					
10					Terminated boring at 10.0 feet
11					
12					
13					
14					
15					
16					
17					

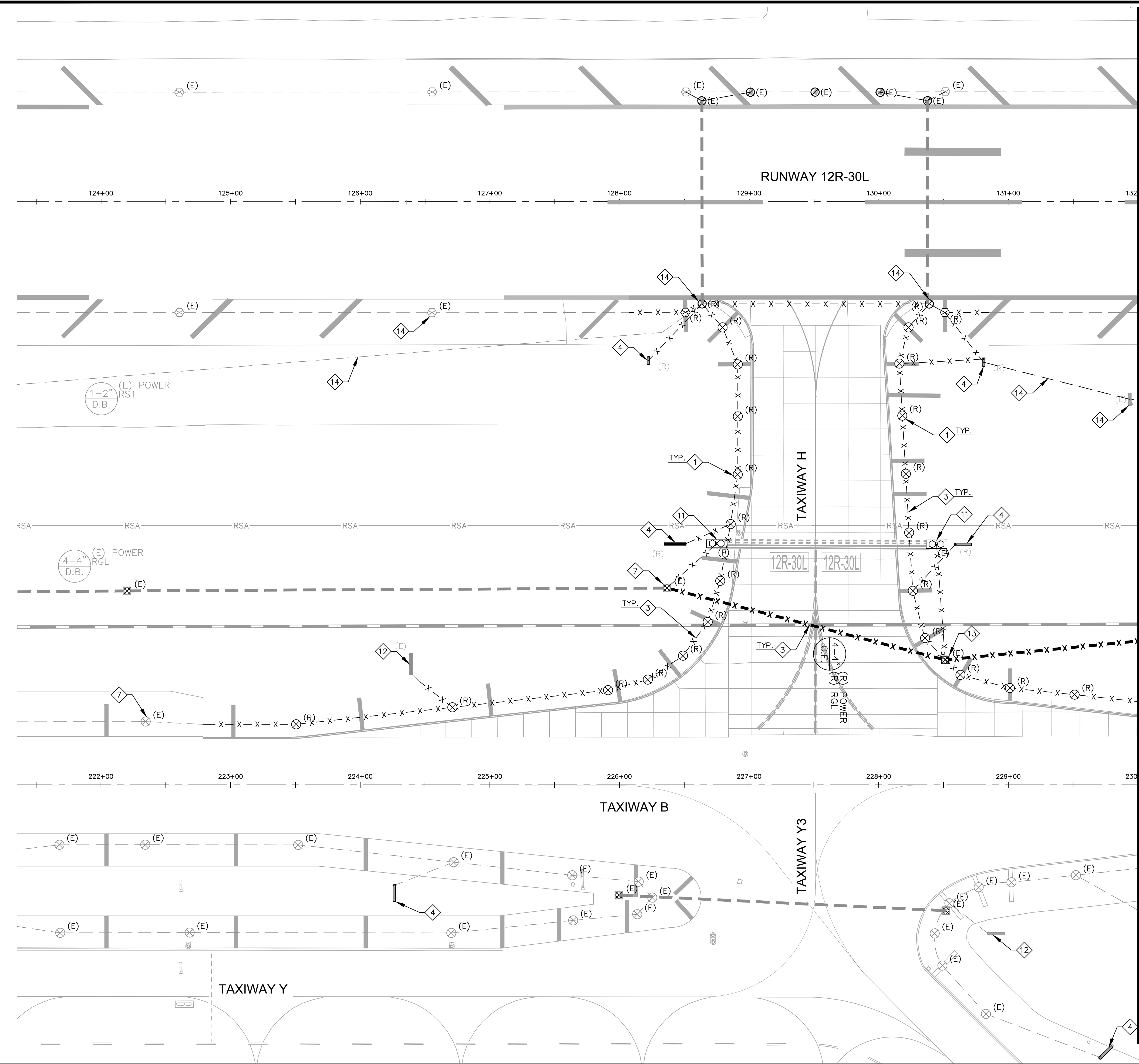
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PROJECT NO. 091134047 FILE NO. 091134047GT C4-12.1 SHEET 196 of 211		PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) BORING LOGS		PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, ARIZONA 85212 (480) 988-7600 www.phixmesagateway.org		SCALE Horiz. NTS Vert. NTS Date 04/26/2023 Designed by JMM Drawn by RAB Checked by JMM Approved by SHR		FIRM'S SEAL 		FIRM'S NAME Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. Southern Ave., Suite 131 Mesa, Arizona 85210 (480) 207-2666		NO. REVISION BY DATE	
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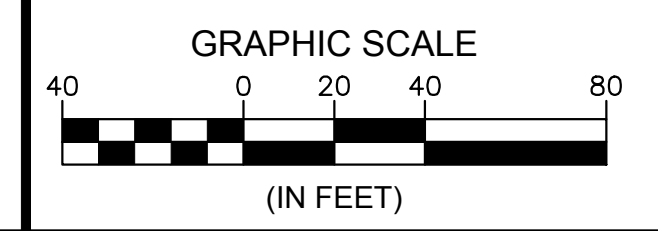
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MATCHLINE - SEE SHEET E4-1.2 STA: 230+00

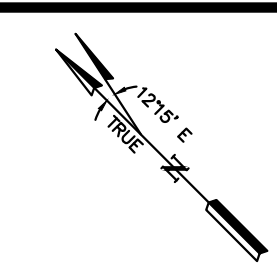
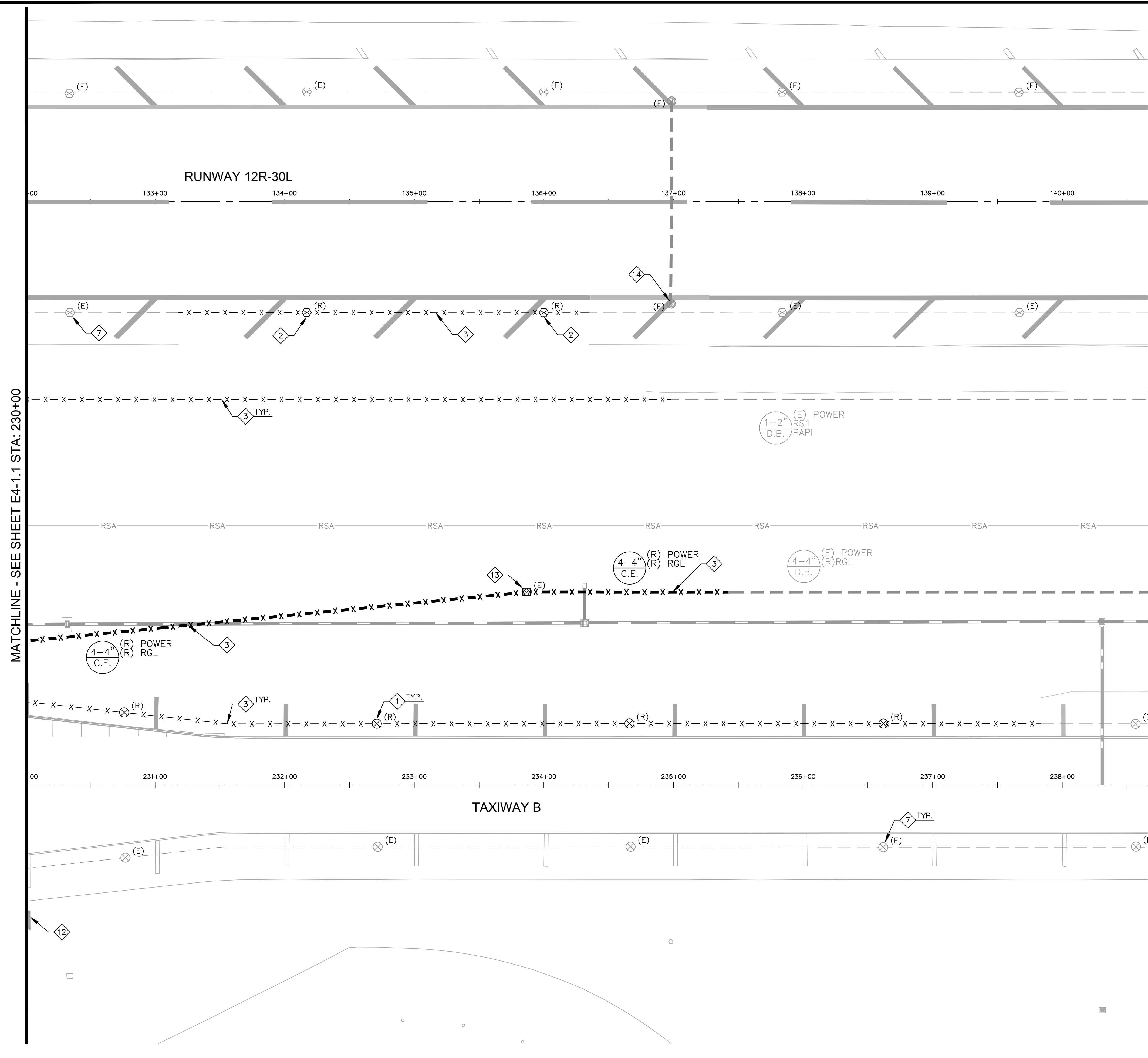
- DEMO NOTES:**
- 1 REMOVE EXISTING ELEVATED TAXIWAY EDGE LIGHT, BASE CAN, CABLE AND CONDUIT. REMOVE CABLE BACK TO CLOSEST PULL POINT OUTSIDE THE LIMITS OF CONSTRUCTION.
 - 3 REMOVE EXISTING CABLE AND CONDUIT OR DUCT. REMOVE CABLE BACK TO CLOSEST PULL POINT OUTSIDE THE LIMITS OF CONSTRUCTION.
 - 4 REMOVE EXISTING AIRFIELD GUIDANCE SIGN, FOUNDATION, CABLE AND CONDUIT.
 - 7 EXISTING AIRFIELD EQUIPMENT. PROTECT IN PLACE.
 - 11 REMOVE EXISTING ELEVATED RUNWAY GUARD LIGHT, BASE CAN, CABLE AND CONDUIT. REMOVE CABLE BACK TO CLOSEST PULL POINT OUTSIDE THE LIMITS OF CONSTRUCTION. SALVAGE RGL ASSEMBLY TO THE AIRPORT.
 - 12 REMOVE PANELS FROM EXISTING SIGN. PROTECT SIGN HOUSING AND FOUNDATION IN PLACE.
 - 13 REMOVE AND SALVAGE CONCRETE HANDHOLE FOR REINSTALLATION.
 - 14 REFER TO SCHEDULE I ELECTRICAL DEMOLITION.

- LEGEND:**
- EXIST. NEW
 - CONCRETE HANDHOLE
 - EXISTING CONCRETE MANHOLE OR MH.
 - L-861T ELEVATED OMNI-DIRECTIONAL MEDIUM INTENSITY T/W EDGE LIGHT
 - L-861 ELEVATED OMNI-DIRECTIONAL MEDIUM INTENSITY R/W EDGE LIGHT
 - L-804 ELEVATED RUNWAY GUARD LIGHT
 - AIRFIELD GUIDANCE SIGN
 - L-867 BASE CAN WITH BLANK COVER
 - LIGHTED WINDCONE
 - CONDUIT
 - DUCT BANK
 - DUCT BANK, DIRECTIONAL BORE
 - DEMO CONDUIT
 - DEMO DUCT BANK



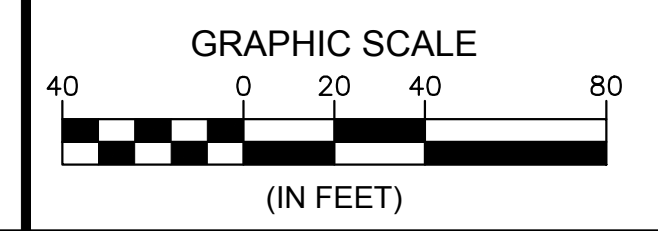
 KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5600	
 DUSTIN J. COLWELL 63809 04/26/2023 Electrical	
SCALE Horiz. 1" = 40' Vert. N/A	Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL
PROJECT NO. 091134047 FILE NO. 091134047ED E4-1.1 SHEET 198 of 211	
PROJECT NAME Phoenix-Mesa Gateway Airport PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) ELECTRICAL DEMOLITION	
FIRM'S NAME Kimley-Horn	

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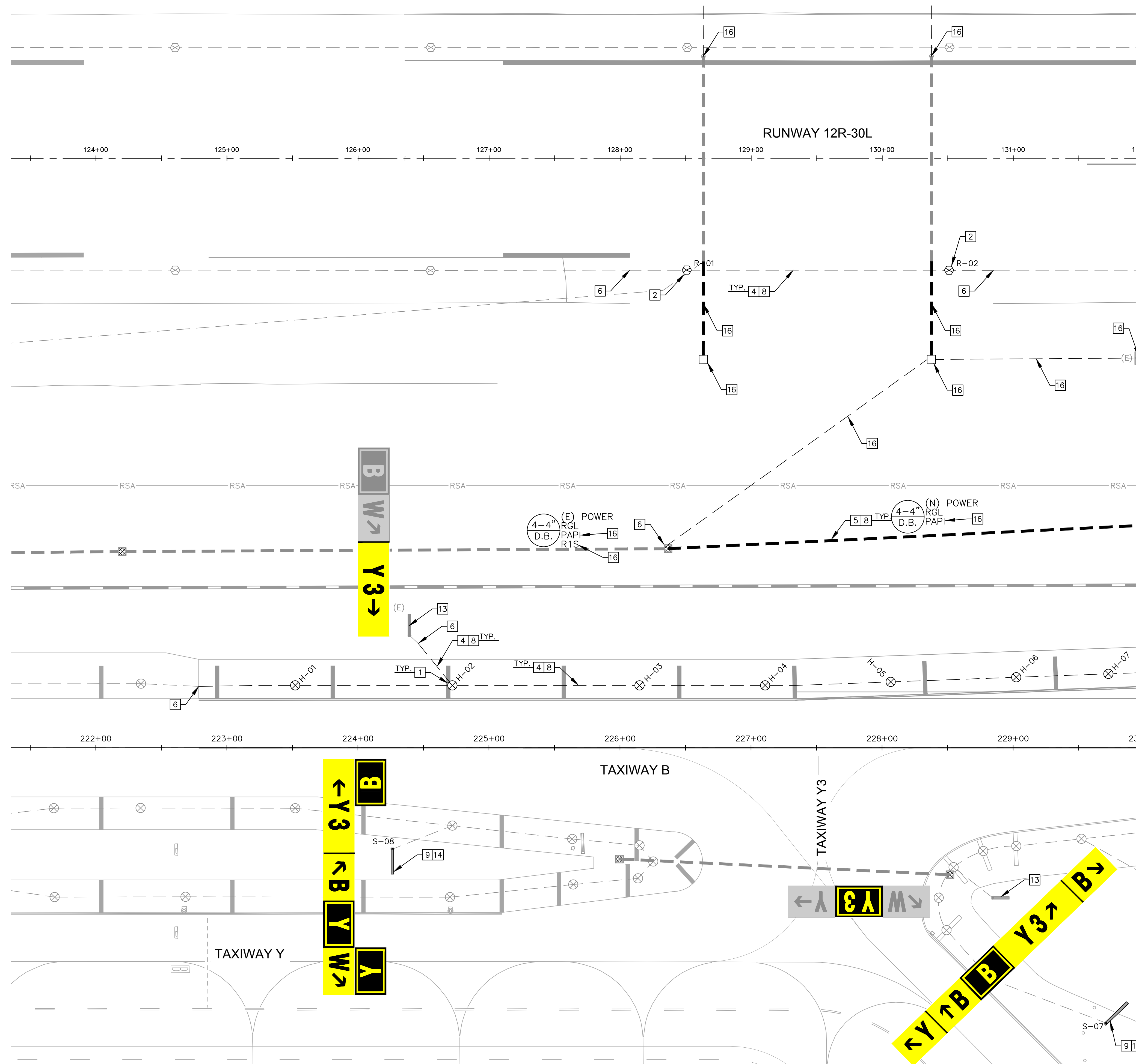
- DEMO NOTES:**
- 1 REMOVE EXISTING ELEVATED TAXIWAY EDGE LIGHT, BASE CAN, CABLE AND CONDUIT. REMOVE CABLE BACK TO CLOSEST PULL POINT OUTSIDE THE LIMITS OF CONSTRUCTION.
 - 2 REMOVE EXISTING ELEVATED RUNWAY EDGE LIGHT, BASE CAN, CABLE AND CONDUIT. REMOVE CABLE BACK TO CLOSEST PULL POINT OUTSIDE THE LIMITS OF CONSTRUCTION.
 - 3 REMOVE EXISTING CABLE AND CONDUIT OR DUCT. REMOVE CABLE BACK TO CLOSEST PULL POINT OUTSIDE THE LIMITS OF CONSTRUCTION.
 - 7 EXISTING AIRFIELD EQUIPMENT. PROTECT IN PLACE.
 - 12 REMOVE PANELS FROM EXISTING SIGN. PROTECT SIGN HOUSING AND FOUNDATION IN PLACE.
 - 13 REMOVE AND SALVAGE CONCRETE HANDHOLE FOR REINSTALLATION.
 - 14 REFER TO SCHEDULE I ELECTRICAL DEMOLITION.

- LEGEND:**
- EXIST. [Symbol] CONCRETE HANDHOLE
 - EXIST. [Symbol] EXISTING CONCRETE MANHOLE OR MH.
 - [Symbol] L-861T ELEVATED OMNI-DIRECTIONAL MEDIUM INTENSITY T/W EDGE LIGHT
 - [Symbol] L-861 ELEVATED OMNI-DIRECTIONAL MEDIUM INTENSITY R/W EDGE LIGHT
 - [Symbol] L-804 ELEVATED RUNWAY GUARD LIGHT
 - [Symbol] AIRFIELD GUIDANCE SIGN
 - [Symbol] L-867 BASE CAN WITH BLANK COVER
 - [Symbol] LIGHTED WINDCONE
 - CONDUIT
 - DUCT BANK
 - DUCT BANK, DIRECTIONAL BORE
 - x- DEMO CONDUIT
 - x- DEMO DUCT BANK



 KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5600	
SCALE Horiz. 1" = 40' Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	FIRM'S NAME Kimley-Horn FIRM'S SEAL PROJECT NO. 091134047 PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) ELECTRICAL DEMOLITION PROJECT NO. 091134047 FILE NO. 091134047ED SHEET 199 of 211

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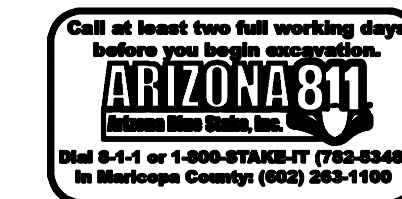
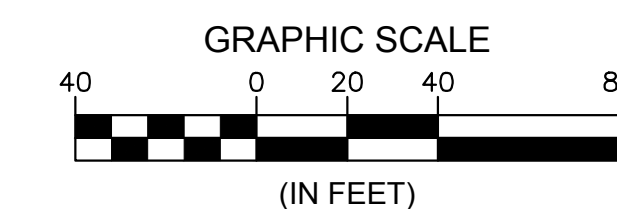
MATCHLINE - SEE SHEET E4-2.2 STA: 230+00

ELECTRICAL NOTES:

- 1 NEW ELEVATED LED L-861T(L) TAXIWAY EDGE LIGHT ON NEW L-867 BASE CAN WITH NEW ISOLATION TRANSFORMER.
- 2 NEW ELEVATED L-861 RUNWAY EDGE LIGHT ON NEW L-867 BASE CAN WITH NEW ISOLATION TRANSFORMER.
- 4 NEW 1-2" CONDUIT. ALL CONDUIT UNDER PAVEMENT SHALL BE CONCRETE ENCASED.
- 5 NEW DUCT PER ADJACENT CALL OUT.
- 6 CONNECT NEW CONDUIT OR DUCT TO EXISTING CONDUIT, BASE CAN, OR HANDHOLE.
- 8 NEW L-824 5kv AIRFIELD CABLE IN NEW OR EXISTING CONDUIT.
- 9 NEW LED L-858 AIRFIELD GUIDANCE SIGN ON NEW FOUNDATION WITH NEW ISOLATION TRANSFORMER.
- 13 INSTALL NEW PANEL IN EXISTING SIGN HOUSING. VERIFY SIGN MANUFACTURER PRIOR TO ORDERING.
- 14 VERIFY EXISTING SIGN LOCATION AND INSTALL NEW SIGN IN THE SAME LOCATION. CONNECT SIGN TO EXISTING CIRCUIT.
- 16 REFER TO SCHEDULE I ELECTRICAL INSTALLATION FOR CIRCUIT INFORMATION.

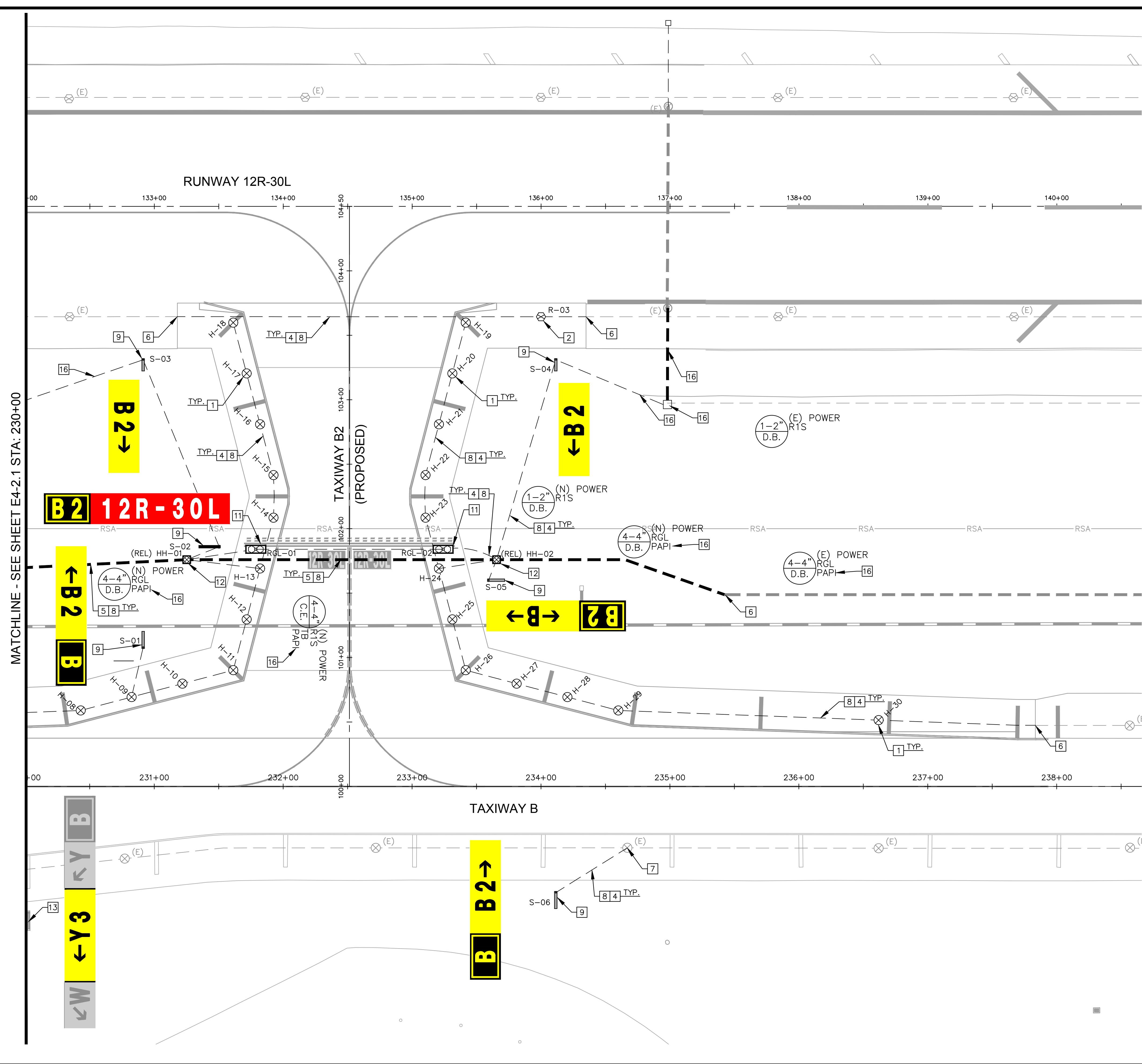
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- AIRFIELD GUIDANCE SIGN
- L-867 BASE CAN WITH BLANK COVER
- LIGHTED WINDCONE
- CONDUIT
- DUCT BANK
- DUCT BANK, DIRECTIONAL BORE
- DEMO CONDUIT
- DEMO DUCT BANK



Kimley-Horn							
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Phoenix-Mesa Gateway Airport PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 (480) 968-7600 www.phoenixgatewayairport.org							
PROJECT NO. 091134047 FILE NO. 091134047EL E4-2.1 SHEET 200 of 211							

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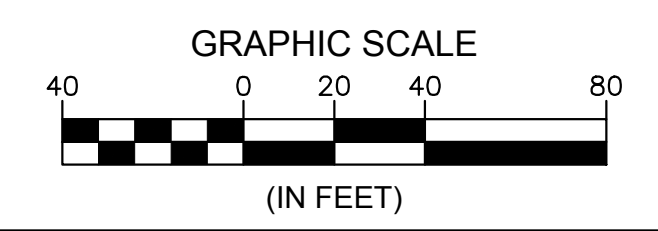
MATCHLINE - SEE SHEET E4-2.1 STA: 230+00

ELECTRICAL NOTES:

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- 2 NEW ELEVATED L-861 RUNWAY EDGE LIGHT ON NEW L-867 BASE CAN WITH NEW ISOLATION TRANSFORMER.
- 4 NEW 1-2" CONDUIT. ALL CONDUIT UNDER PAVEMENT SHALL BE CONCRETE ENCASED.
- 5 NEW DUCT PER ADJACENT CALL OUT.
- 6 CONNECT NEW CONDUIT OR DUCT TO EXISTING CONDUIT, BASE CAN, OR HANDHOLE.
- 7 SAW CUT AND PATCH EXISTING ASPHALT SHOULDER. CONNECT CONDUIT TO EXISTING BASE CAN.
- 8 NEW L-824 5kV AIRFIELD CABLE IN NEW OR EXISTING CONDUIT.
- 9 NEW LED L-858 AIRFIELD GUIDANCE SIGN ON NEW FOUNDATION WITH NEW ISOLATION TRANSFORMER.
- 11 NEW LED L-804(L) ELEVATED RUNWAY GUARDLIGHT ON NEW L-867 BASE CAN WITH NEW ISOLATION TRANSFORMER.
- 12 RELOCATED CONCRETE HANDHOLE.
- 13 INSTALL NEW PANEL IN EXISTING SIGN HOUSING. VERIFY SIGN MANUFACTURER PRIOR TO ORDERING.
- 16 REFER TO SCHEDULE I ELECTRICAL INSTALLATION FOR CIRCUIT INFORMATION.

LEGEND:

- EXIST. NEW
- ⊗ CONCRETE HANDHOLE
- ⊗ EXISTING CONCRETE MANHOLE OR MH.
- ⊗ L-861T ELEVATED OMNI-DIRECTIONAL MEDIUM INTENSITY T/W EDGE LIGHT
- ⊗ L-861 ELEVATED OMNI-DIRECTIONAL MEDIUM INTENSITY R/W EDGE LIGHT
- ⊗ L-804 ELEVATED RUNWAY GUARD LIGHT
- | AIRFIELD GUIDANCE SIGN
- ⊗ L-867 BASE CAN WITH BLANK COVER
- ⊗ LIGHTED WINDCONE
- - - CONDUIT
- - - DUCT BANK
- - - DUCT BANK, DIRECTIONAL BORE
- - - DEMO CONDUIT
- - - DEMO DUCT BANK



 <small>KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5800</small>	
SCALE Horiz. 1"=40' Vert. N/A	DATE 04/26/2023 DESIGNED BY JDC DRAWN BY JDC CHECKED BY JDC APPROVED BY SHL
PROJECT NAME Phoenix-Mesa Gateway Airport PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) ELECTRICAL LAYOUT	
PROJECT NO. 091134047	FILE NO. 091134047EL
SHEET 201 of 211	

K:\rev_0410\091134047 - taxiway h CAD\091134047.dwg Apr 26, 2023 KoaDay
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L-861T DATA TABLE					
FIXT-NUM	STA	OFF	BASE	CIRCUIT	DETAIL
H-01	'TWY B' 223+52.15	47.50' LT.	L-867B	TB	E4-3.2
H-02	'TWY B' 224+72.08	47.50' LT.	L-867B	TB	E4-3.2
H-03	'TWY B' 226+14.84	47.50' LT.	L-867B	TB	E4-3.2
H-04	'TWY B' 227+10.71	47.50' LT.	L-867B	TB	E4-3.2
H-05	'TWY B' 228+06.53	50.18' LT.	L-867B	TB	E4-3.2
H-06	'TWY B' 229+02.34	53.74' LT.	L-867B	TB	E4-3.2
H-07	'TWY B' 229+72.66	56.34' LT.	L-867B	TB	E4-3.2
H-08	'TWY B' 230+42.97	58.95' LT.	L-867B	TB	E4-3.2
H-09	'TWY B' 230+82.40	69.36' LT.	L-867B	TB	E4-3.2
H-10	'TWY B' 231+21.84	79.77' LT.	L-867B	TB	E4-3.2
H-11	'TWY B' 231+61.27	90.18' LT.	L-867B	TB	E4-3.2
H-12	'TWY B' 231+71.68	129.61' LT.	L-867B	TB	E4-3.2
H-13	'TWY B' 231+82.09	169.05' LT.	L-867B	TB	E4-3.2
H-14	'TWY B' 231+92.50	208.48' LT.	L-867B	TB	E4-3.2
H-15	'TWY B' 231+92.50	241.52' LT.	L-867B	TB	E4-3.2
H-16	'TWY B' 231+82.09	280.95' LT.	L-867B	TB	E4-3.2
H-17	'TWY B' 231+71.68	320.39' LT.	L-867B	TB	E4-3.2
H-18	'TWY B' 231+61.27	359.82' LT.	L-867B	TB	E4-3.2
H-19	'TWY B' 233+41.63	359.82' LT.	L-867B	TB	E4-3.2
H-20	'TWY B' 233+31.22	320.39' LT.	L-867B	TB	E4-3.2
H-21	'TWY B' 233+20.81	280.95' LT.	L-867B	TB	E4-3.2
H-22	'TWY B' 233+10.40	241.52' LT.	L-867B	TB	E4-3.2
H-23	'TWY B' 233+10.40	208.48' LT.	L-867B	TB	E4-3.2
H-24	'TWY B' 233+20.81	169.05' LT.	L-867B	TB	E4-3.2
H-25	'TWY B' 233+31.22	129.61' LT.	L-867B	TB	E4-3.2
H-26	'TWY B' 233+41.63	90.18' LT.	L-867B	TB	E4-3.2
H-27	'TWY B' 233+81.06	79.77' LT.	L-867B	TB	E4-3.2
H-28	'TWY B' 234+20.50	69.36' LT.	L-867B	TB	E4-3.2
H-29	'TWY B' 234+59.93	58.95' LT.	L-867B	TB	E4-3.2
H-30	'TWY B' 236+61.83	51.46' LT.	L-867B	TB	E4-3.2

L-858 DATA TABLE					
SIGN-NUM	Name	STA	OFF	CIRCUIT	DETAIL
S-01	3MODSIGN	'TWY B' 230+91.45	107.95' LT.	TB	E4-3.1
S-02	4MODSIGN	'TWY B' 231+50.36	186.00' LT.	R1S	E4-3.1
S-03	2MODSIGN	'TWY B' 230+91.45	331.00' LT.	R1S	E4-3.1
S-04	2MODSIGN	'TWY B' 234+11.45	331.00' LT.	R1S	E4-3.1
S-05	3MODSIGN	'TWY B' 233+59.40	160.00' LT.	TB	E4-3.1
S-06	3MODSIGN	'TWY B' 234+11.45	82.33' RT.	TB	E4-3.1
S-07	3+3MODSIGN	EXIST	EXIST	TA	E4-3.6
S-08	3+2MODSIGN	EXIST	EXIST	TB	E4-3.6

L-804 DATA TABLE					
FIXT-NUM	STA	OFF	BASE	CIRCUIT	DETAIL
RGL-01	'TWY B' 231+78.80	184.00' LT.	L-867B	RGL	E4-3.7
RGL-02	'TWY B' 233+24.10	184.00' LT.	L-867B	RGL	E4-3.7

L-861 DATA TABLE					
FIXT-NUM	STA	OFF	BASE	CIRCUIT	DETAIL
R-01	'TWY B' 226+50.95	364.59' LT.	L-867B	R1	E4-3.2
R-02	'TWY B' 228+51.15	364.49' LT.	L-867B	R1	E4-3.2
R-03	'TWY B' 234+00.00	364.37' LT.	L-867B	R1	E4-3.2

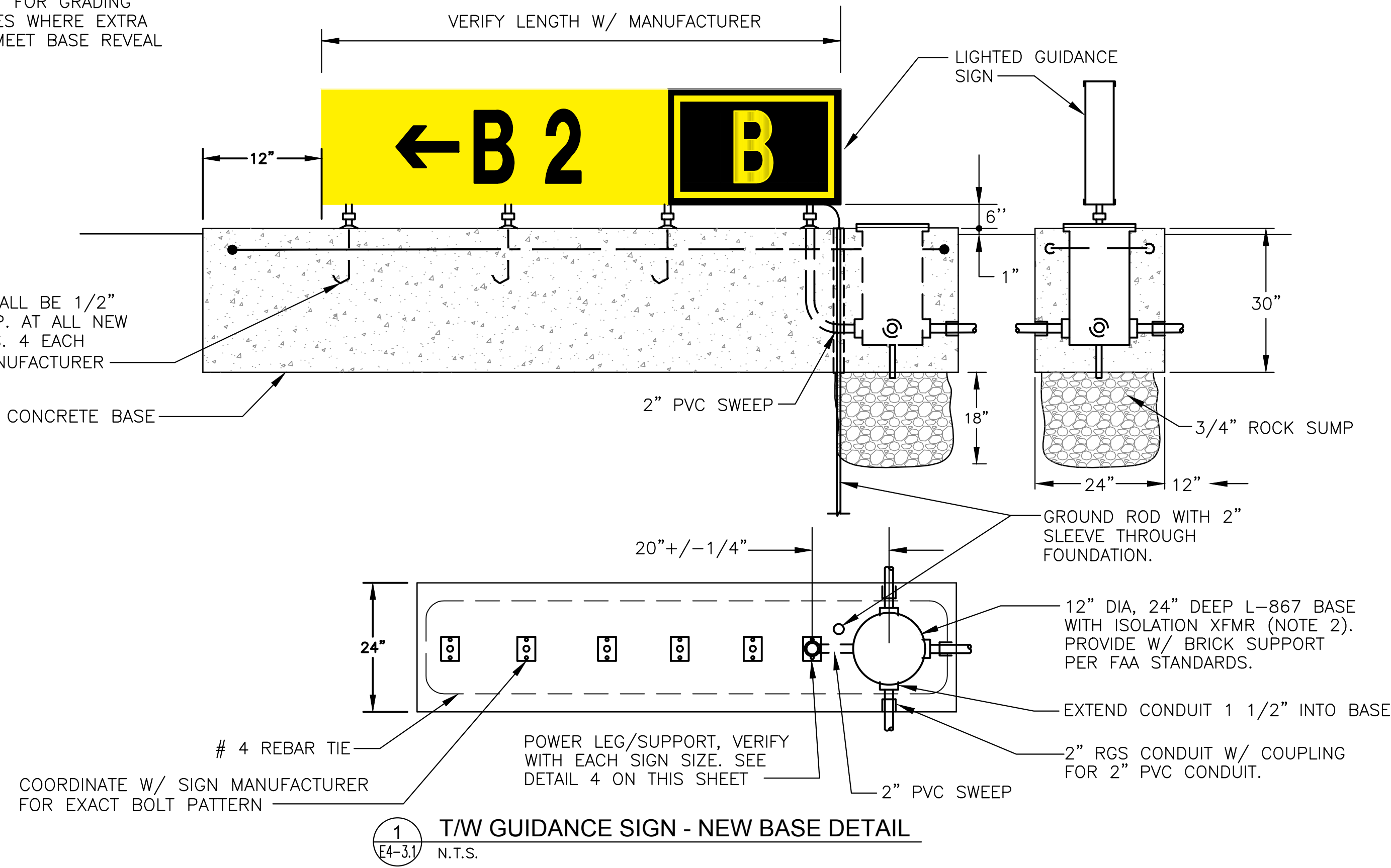
HH-NUM	STA	OFF	DETAIL
(REL) HH-01	'TWY B' 231+25.25	175.94' LT.	E4-3.5
(REL) HH-02	'TWY B' 233+65.53	175.94' LT.	E4-3.5



PROJECT NO. 091134047 FILE NO. 091134047EL E4-2.3 SHEET 202 of 211	PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) ELECTRICAL TABLES	PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 (480) 968-7600 www.phoenixgateway.org	SCALE Horiz. 1"=40' Vert. N/A	Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	FIRM'S SEAL 	FIRM'S NAME Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500	NO. REVISION BY DATE

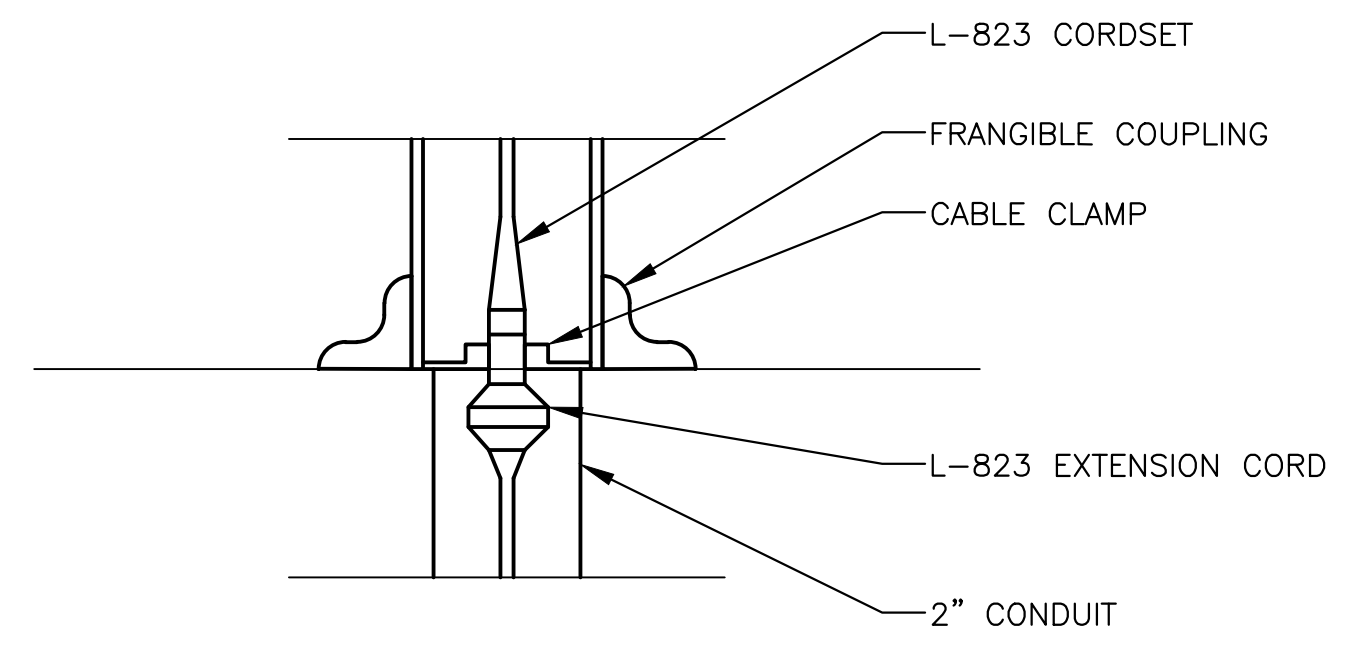
SIGN INSTALLATION NOTES:

1. VERIFY ALL DIMENSIONS OF SIGN FACES, SIGN PEDESTALS, AND SIGN FACE SPACING WITH MANUFACTURER BEFORE INSTALLATION.
2. PROVIDE NEW TRANSFORMERS WITH NEW SIGNS. SIZE TRANSFORMERS PER MANUFACTURERS RECOMMENDATIONS.
3. REFER TO DETAIL 2/E4-3.1 FOR GRADING DETAIL AROUND SIGN BASES WHERE EXTRA GRADING IS REQUIRED TO MEET BASE REVEAL SLOPE REQUIREMENTS.

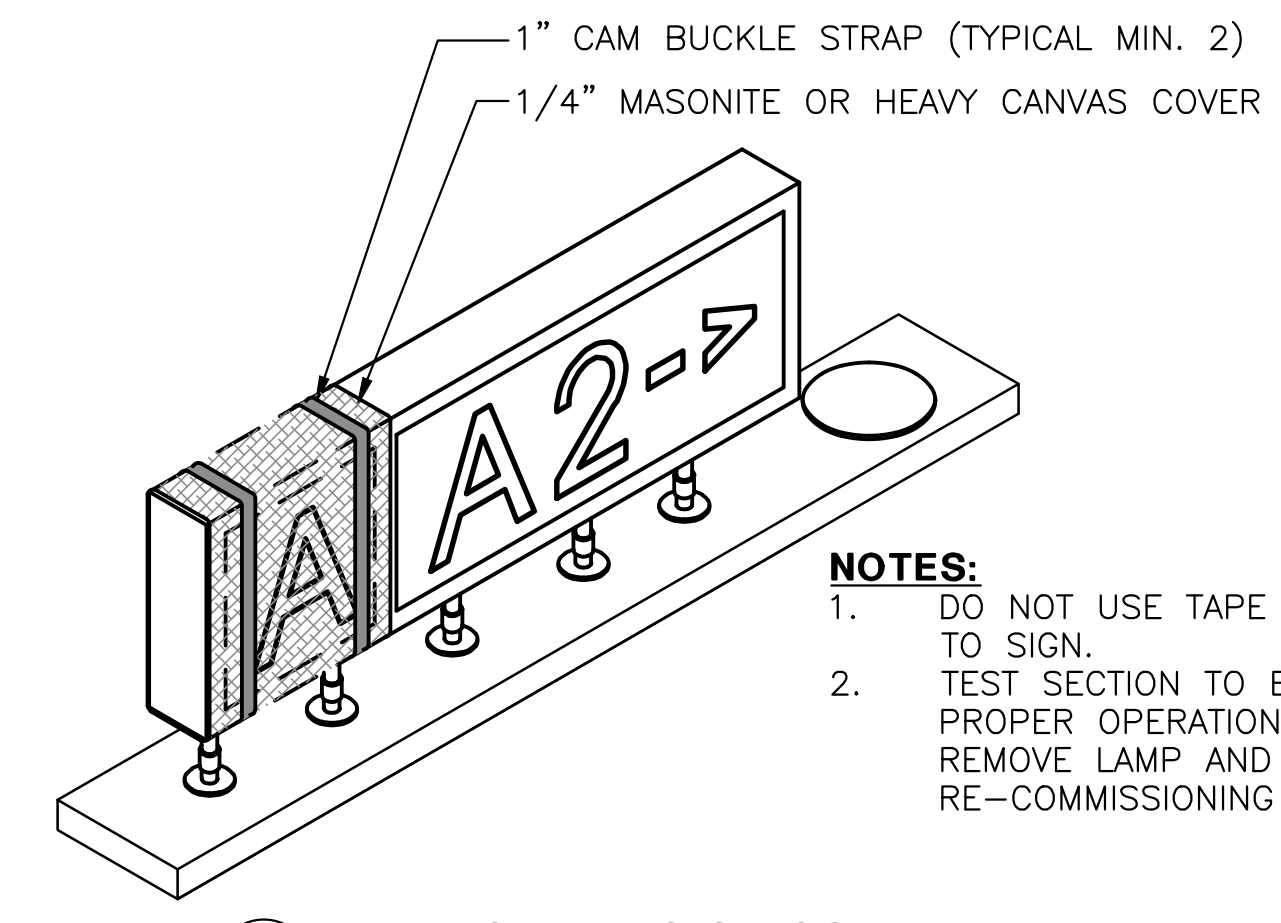


1 T/W GUIDANCE SIGN - NEW BASE DETAIL
E4-3.1 N.T.S.

THE BASE CAN/TRANSFORMER HOUSING INDICATED ON THE SIGN BASE DETAIL SHALL HAVE A 1" DIAMETER PVC DRAIN AND AN 24" DIAMETER BY 18" DEPTH GRAVEL (3/4" GRAVEL) SUMP BENEATH IT.

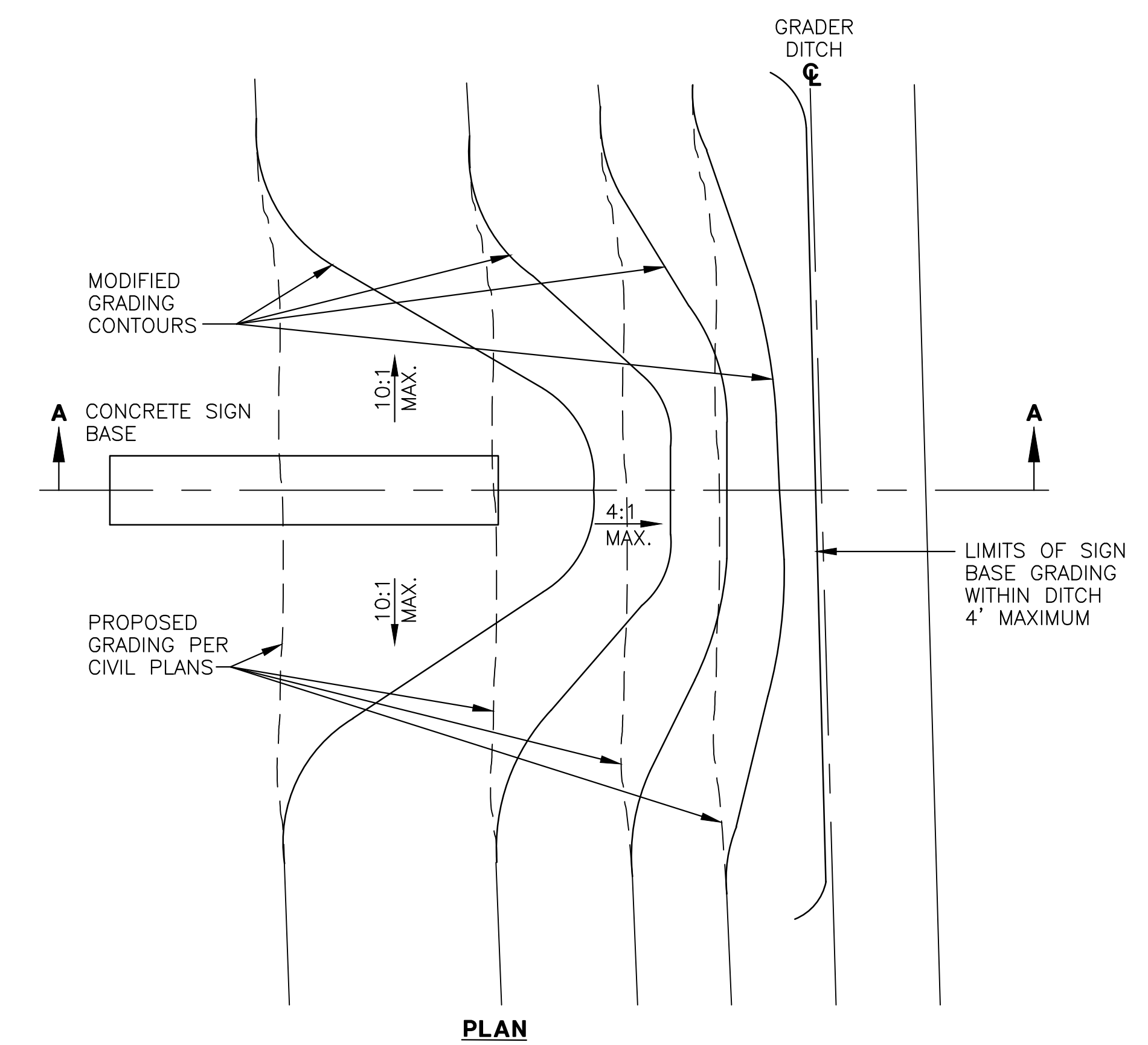


4 SIGN CABLE CLAMP DETAIL
E4-3.1 N.T.S.

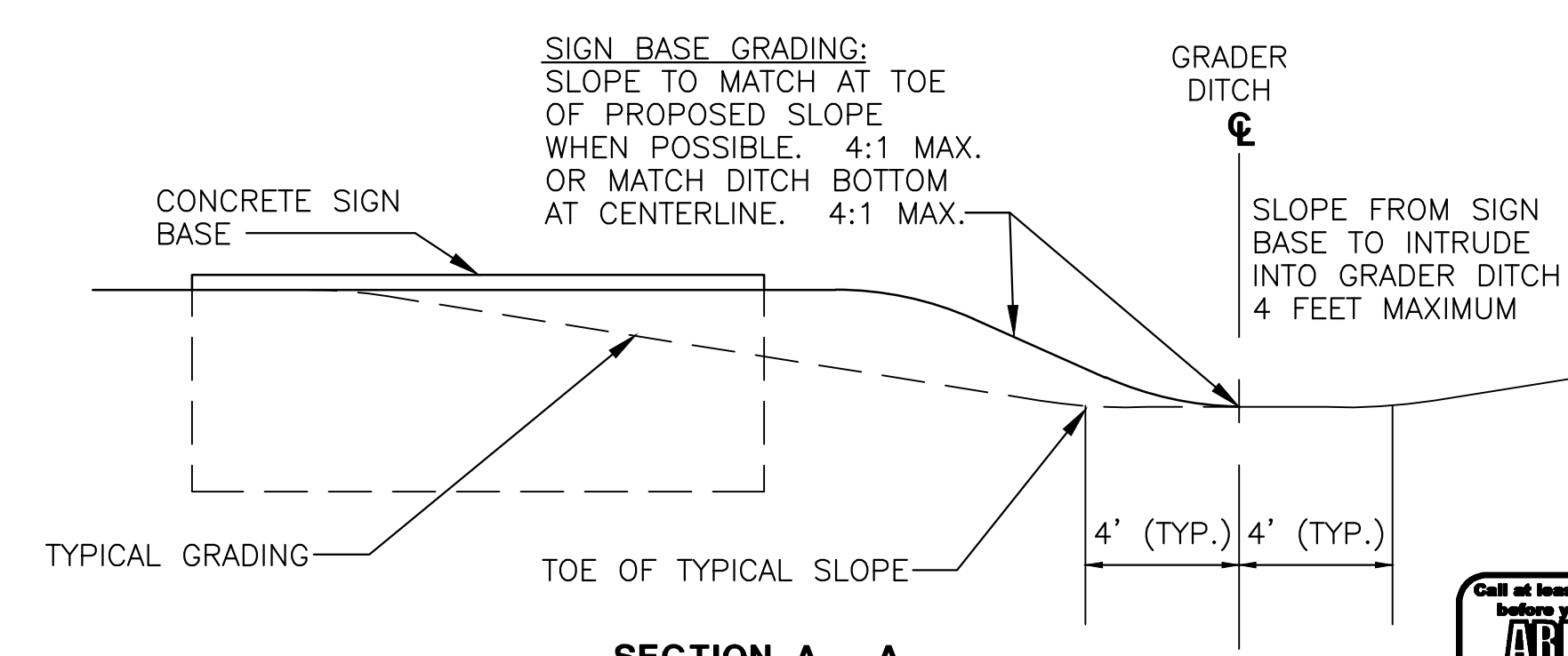


3 TEMPORARY SIGN COVER DETAIL
E4-3.1 N.T.S.

- NOTES:**
1. DO NOT USE TAPE TO SECURE COVER TO SIGN.
 2. TEST SECTION TO BE OBSCURED FOR PROPER OPERATION AND THEN REMOVE LAMP AND POWER UNTIL RE-COMMISSIONING SIGN.



PLAN



SECTION A - A

2 GUIDANCE SIGN - GRADING DETAIL
E4-3.1 N.T.S.

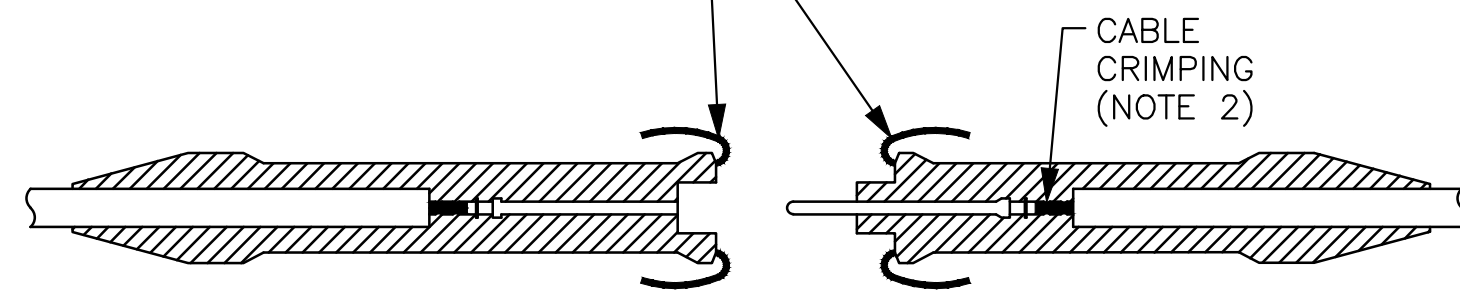


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PROJECT NO. 091134047		FIRM'S NAME Kimley-Horn	
FILE NO. 091134047E4		FIRM'S SEAL DUSTIN J. COLWELL Professional Engineer No. 63909 Expires 6/30/23	
PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION)		SCALE Date 04/26/2023 Designed by DJC Drawn by DJC Checked by DJC Approved by SHL	
PROJECT LOCATION PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 PH: 480.968.7500 www.phoenixgateway.org		SHEET 203 of 211	
PROJECT NO. 091134047		BY DATE	

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PLUG KITS SHALL BE PROVIDED WITH INTEGRAL PULL-OVER-SLEEVE TYPE WATER SEAL. (AMERACE 'SUPER KIT' OR EQUAL).

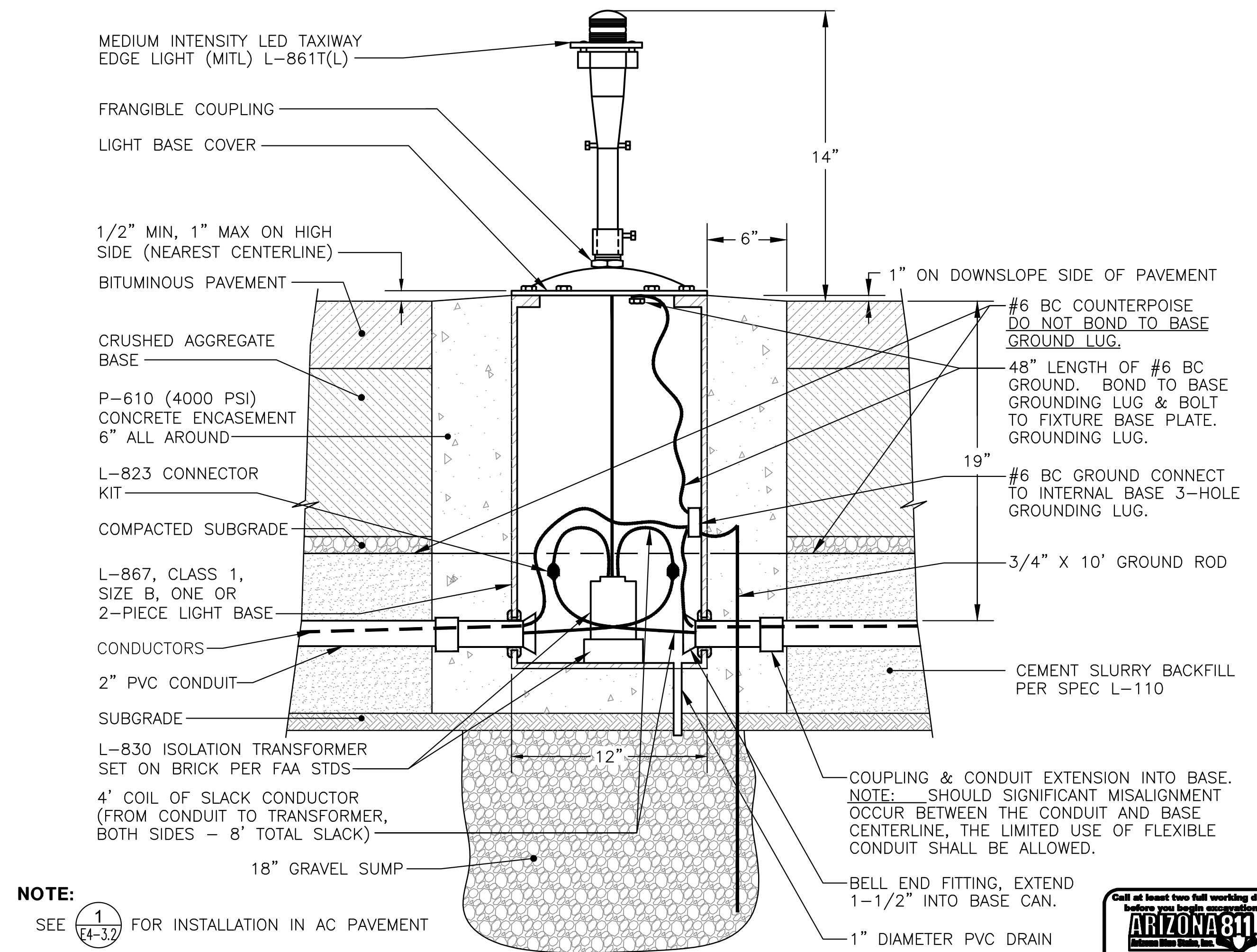


L-823 LINE RECEPTACLE END L-823 LOAD PLUG END
 FOR SPLICES INSIDE BASE CAN, JUNCTION BOXES, HANDHOLES, AND MANHOLES

NOTES:

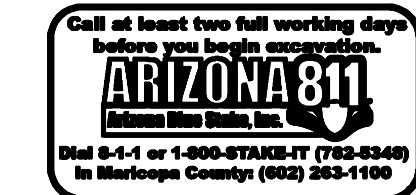
1. PROVIDE MALE AND FEMALE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR IN EACH BASE, HANDHOLE OR MANHOLE IN THE FIELD CIRCUIT. THERE SHALL BE NO SPLICES BETWEEN LIGHTS, ONLY IN BASES OR HANDHOLES. AS MUCH AS PRACTICAL, HOMERUN CIRCUITS FROM THE FIELD CIRCUIT CONNECTION INTO THE MAIN DUCT SYSTEM BACK TO THE AIRFIELD LIGHTING VAULT SHALL BE INSTALLED WITHOUT SPLICES.
2. PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED HANDHELD RATCHETING TYPE CRIMPING TOOL. EACH CABLE TERMINATION SHALL BE SECURED BY TWO CRIMPS.
3. ALL CABLE CONNECTORS SHALL BE MADE WITH L-823 CONNECTOR.

3 "SUPER KIT" TYPICAL 5kV CABLE SPLICE
 E4-3.2 N.T.S.



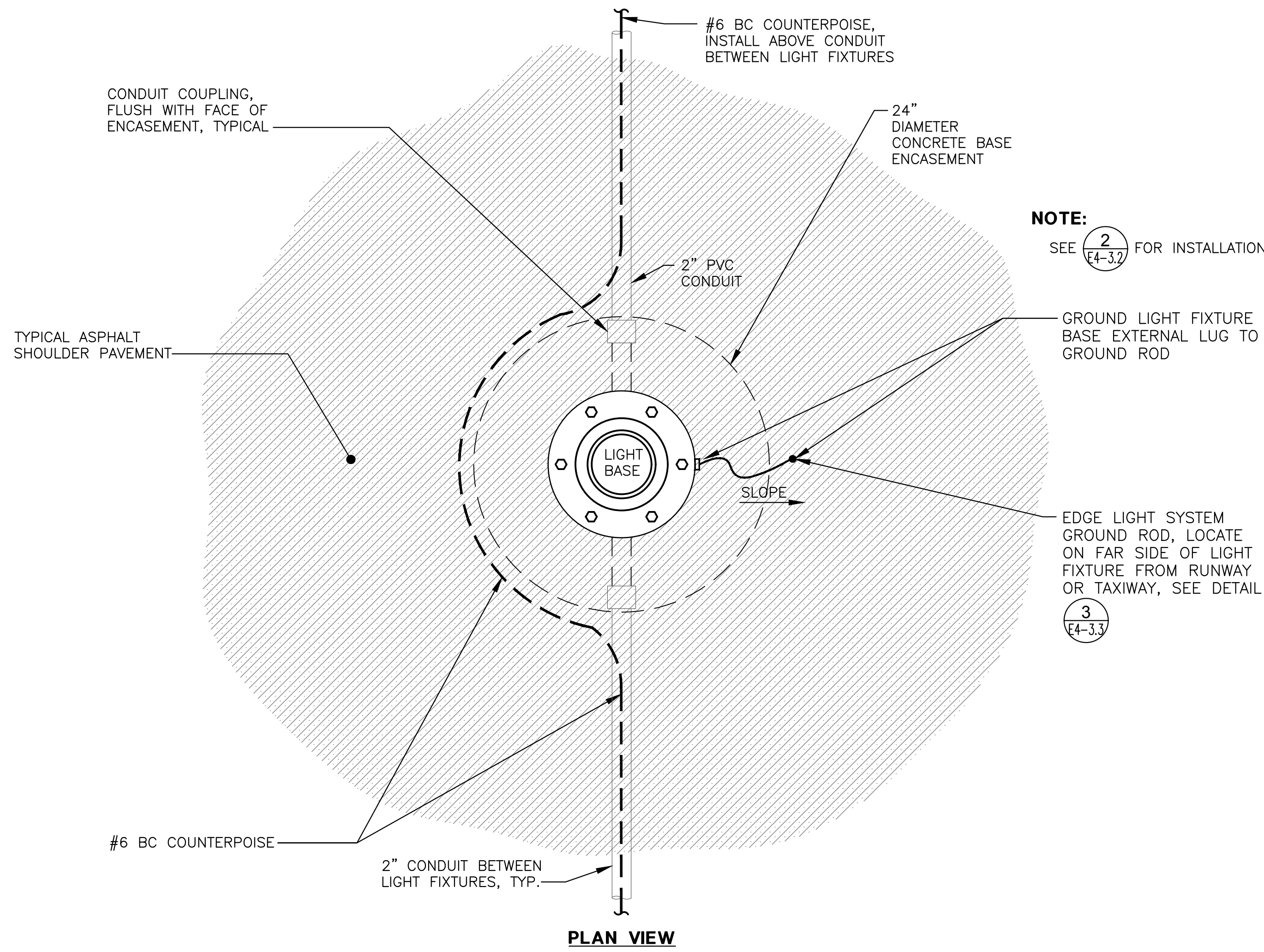
NOTE:
 SEE 1 FOR INSTALLATION IN AC PAVEMENT
 E4-3.2

2 ELEVATED TAXIWAY EDGE LIGHT DETAIL
 N.T.S.



PROJECT NO. 091134047 FILE NO. 091134047EZ E4-3.2 SHEET 204 of 211		PROJECT NAME Phoenix-Mesa Gateway Airport TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) ELEVATED LIGHT DETAILS	FIRM'S SEAL 	FIRM'S NAME Kimley»Horn <small>KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5000</small>	SCALE Horiz. N/A Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	NO. _____ REVISION _____ BY DATE _____
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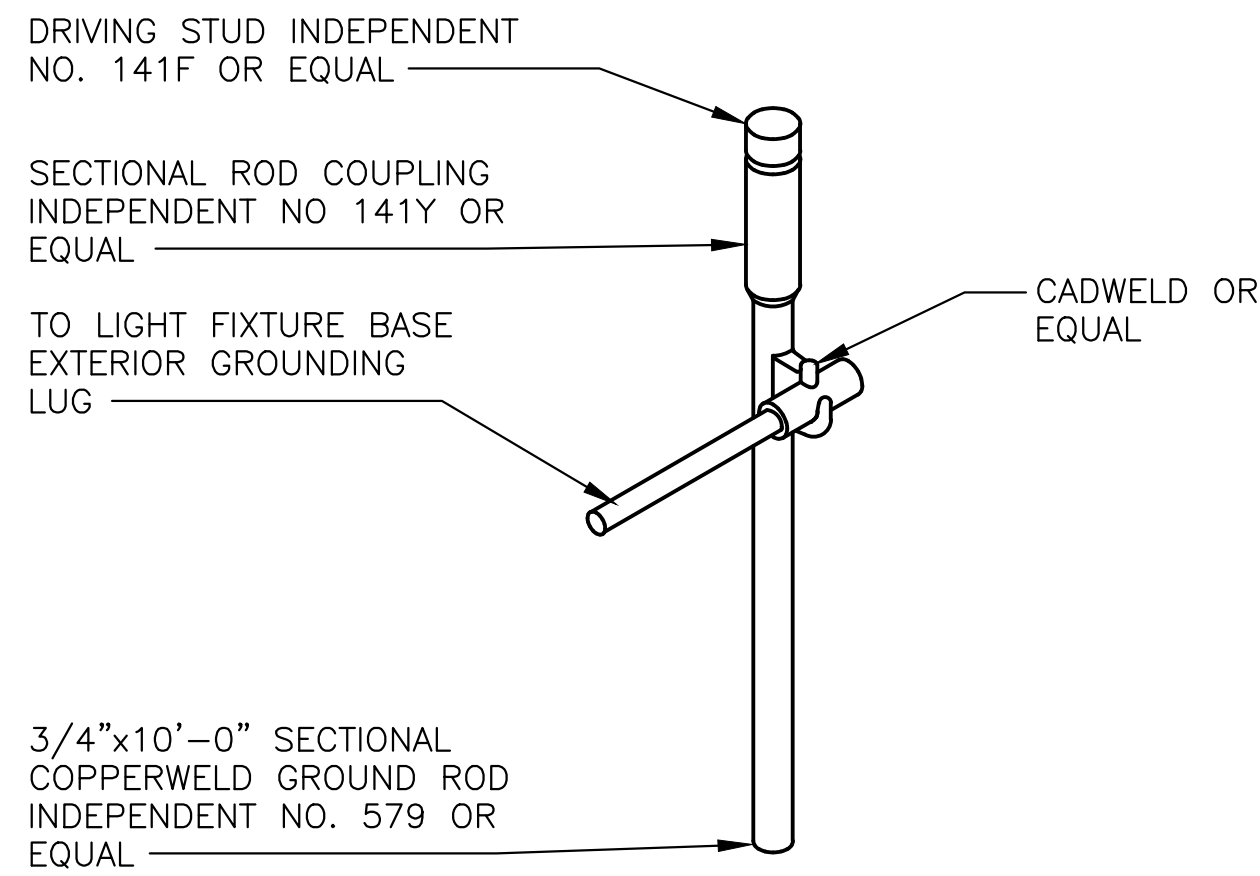


1 TAXIWAY EDGE LIGHT PLAN
 E4-3.3 N.T.S.

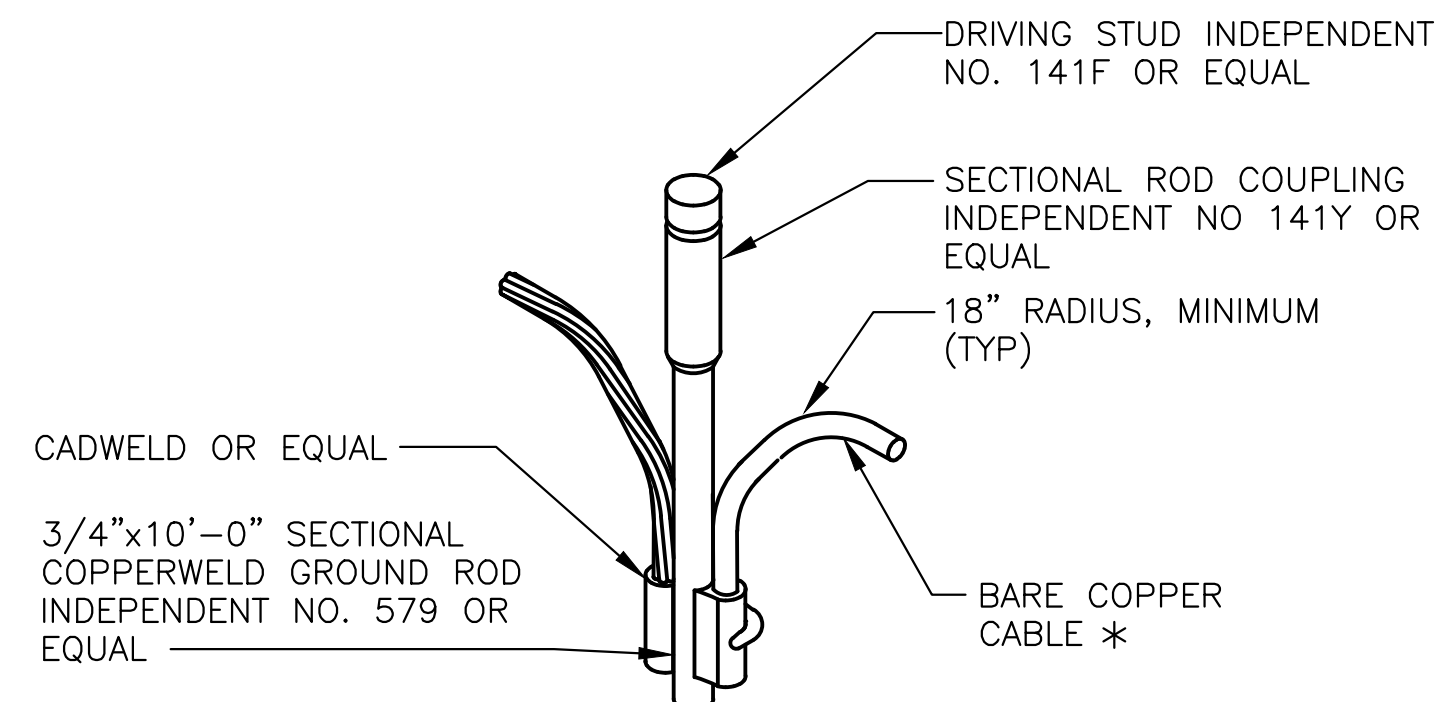
NOTE:
 SEE 2 FOR INSTALLATION
 E4-3.2

EDGE LIGHT SYSTEM
 GROUND ROD, LOCATE
 ON FAR SIDE OF LIGHT
 FIXTURE FROM RUNWAY
 OR TAXIWAY, SEE DETAIL
 3
 E4-3.3

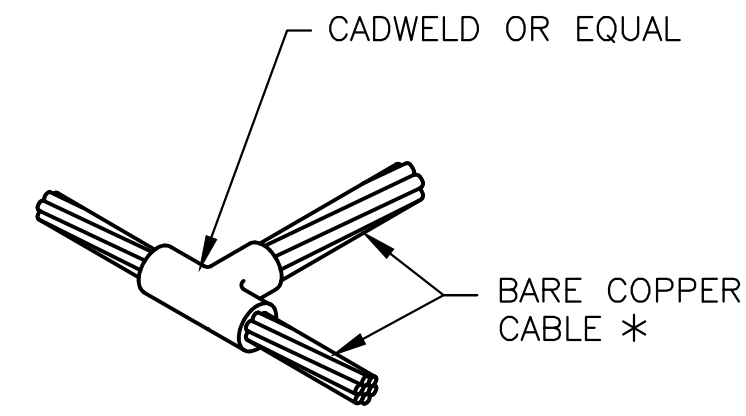
* BARE COPPER CABLE -
 #4/0 FOR FAA FACILITIES,
 #1/0 FOR FAA DUCTS,
 #6 SOLID FOR AIRFIELD
 LIGHTING



3 LIGHT GROUNDING DETAIL
 E4-3.3 N.T.S.



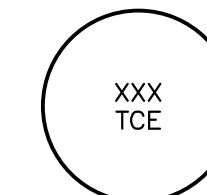
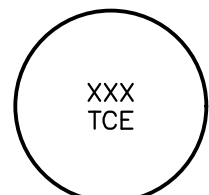
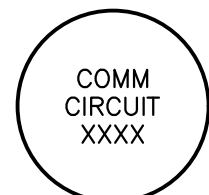
5 COUNTERPOISE SYSTEM GROUND ROD DETAIL
 E4-3.3 N.T.S.



4 COUNTERPOISE SYSTEM GROUND DETAIL
 E4-3.3 N.T.S.



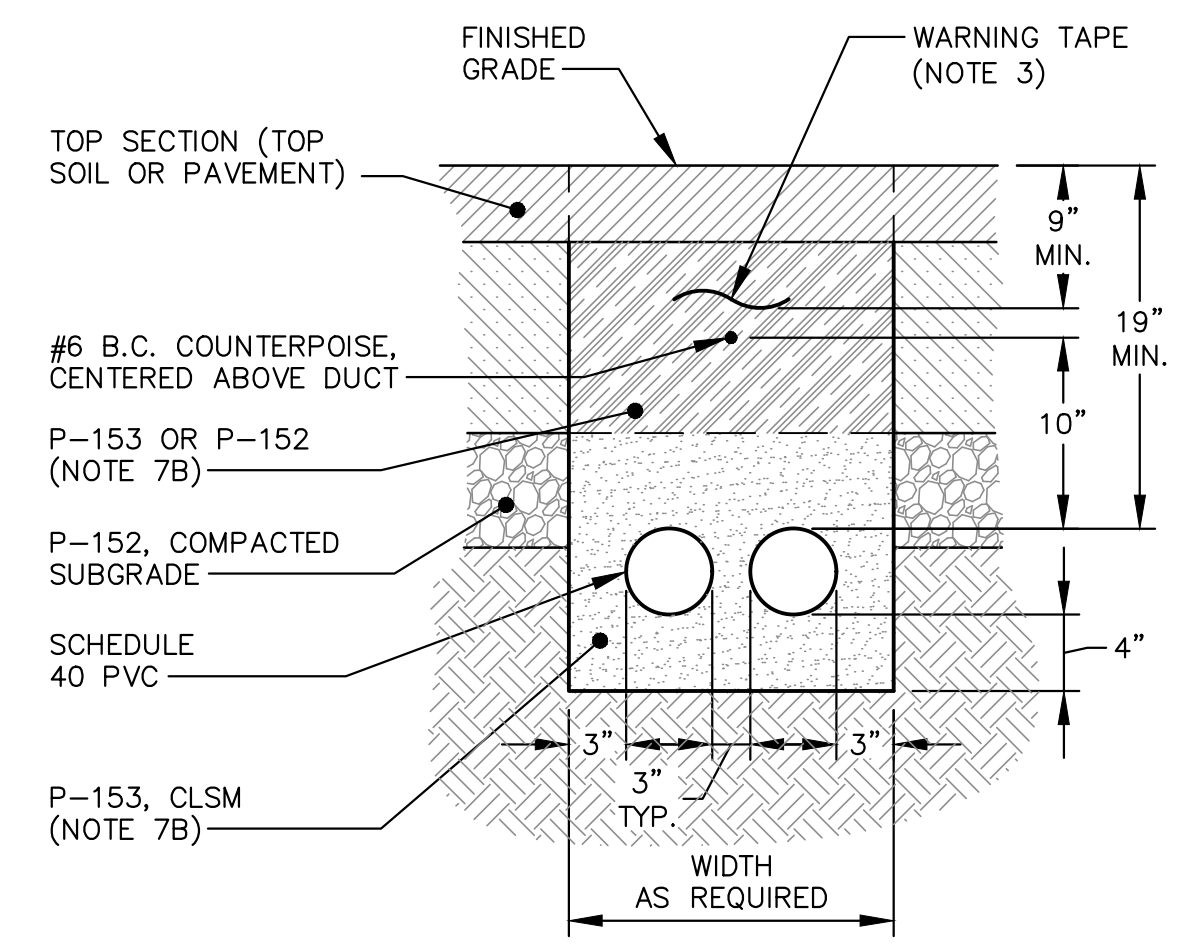
PROJECT NO. 091134047		FIRM'S NAME Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5900	
FILE NO. 091134047EZ		FIRM'S SEAL 	
E4-3.3		SCALE Horiz. N/A Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	
SHEET 205 of 211		PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 Tel: 480.968.7500 www.phoenixgateway.org	
PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) GROUNDING DETAILS		REVISION NO. REVISION BY DATE	



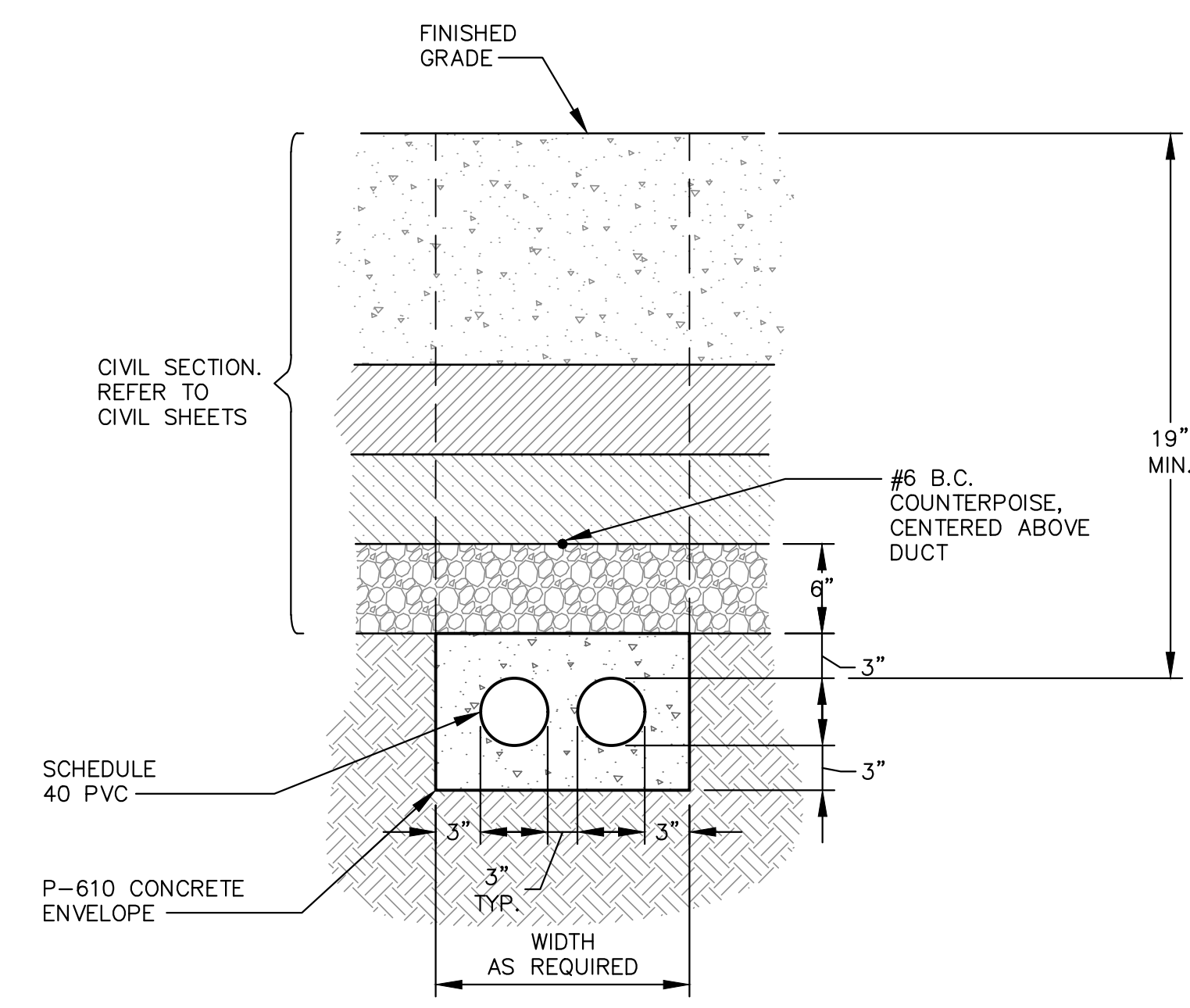
COMMUNICATIONS R/W, T/W FIXTURE MARKER R/W, T/W SIGN MARKER
 XXX = CIRCUIT NAME XXX = FIXTURE NUMBER XXX = SIGN NUMBER
 TA = CIRCUIT NAME TA = CIRCUIT NAME

NOTES:
 1. IDENTIFICATION NUMBERS FOR R/W AND T/W FIXTURES WILL BE PROVIDED TO THE CONTRACTOR AFTER BIDDING. EACH NEW FIXTURE WILL BE ASSIGNED AN IDENTIFICATION NUMBER WHICH SHALL BE INSTALLED NEAR THE END OF CONSTRUCTION.
 2. TAGS SHALL BE NON-FERROUS PLASTIC OF TYPE AND SIZE AS SPECIFIED UNDER ITEM L-100,

1 R/W, T/W, MISC. POWER AND COMMUNICATION CABLE TAGS AND FIXTURE MARKERS
 E4-3.4 N.T.S.



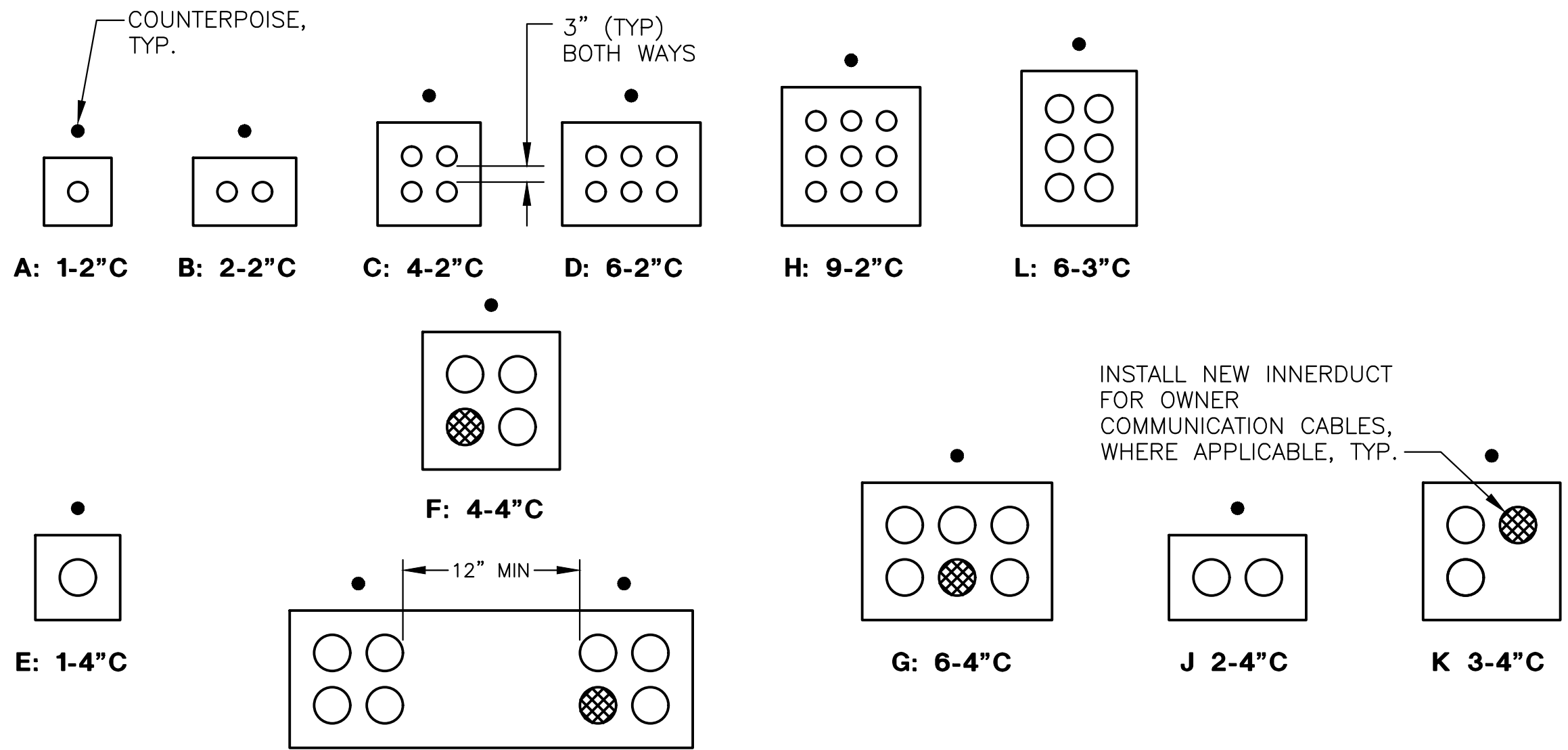
3 TYPICAL DUCT SECTION - DIRECT BURIED
 E4-3.4 N.T.S. (SEE NOTES AT RIGHT)



2 TYPICAL POWER DUCT SECTION - ENCASED
 E4-3.4 N.T.S. (SEE NOTES AT RIGHT)

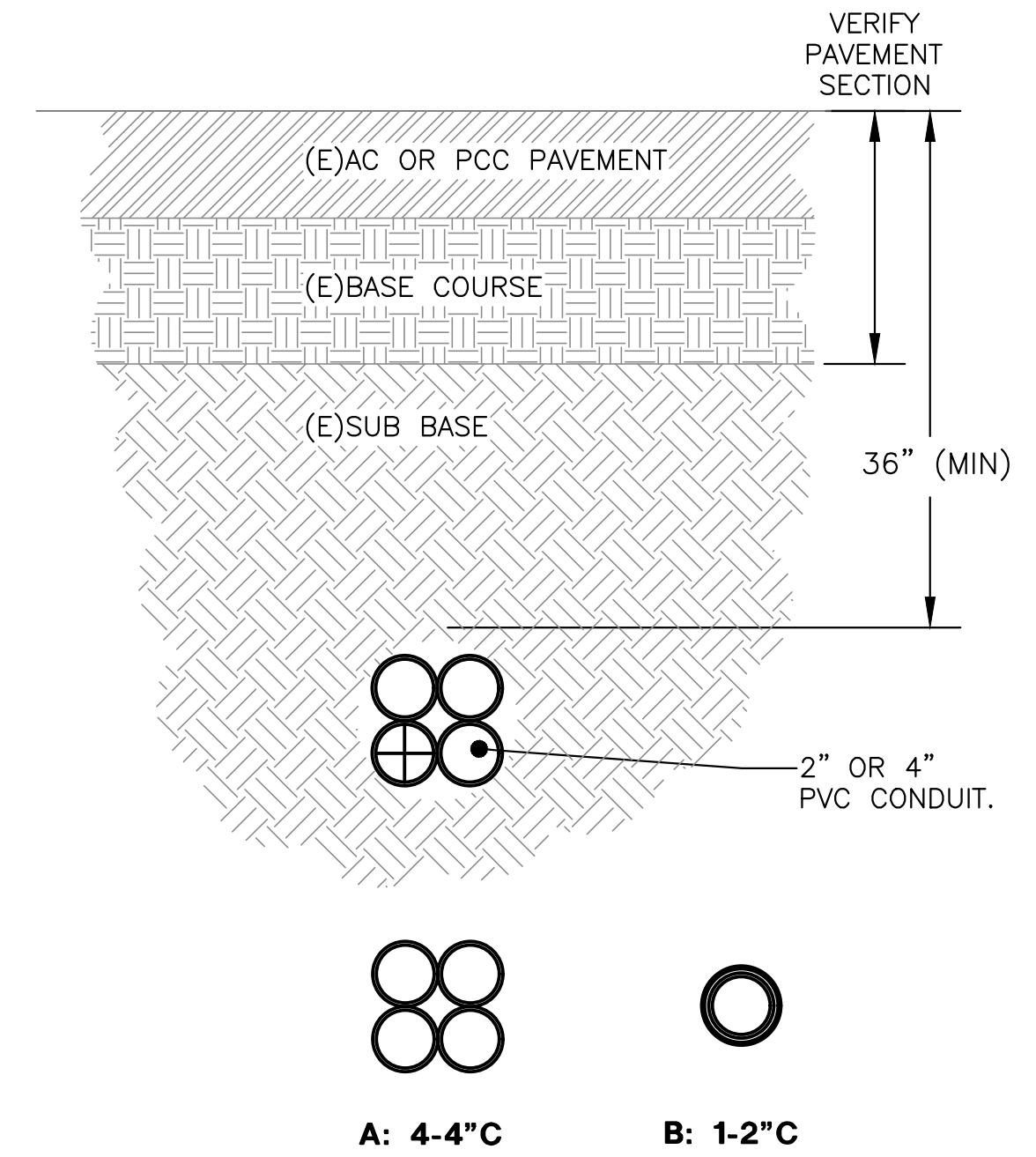
CONDUIT/DUCT & CABLE INSTALLATION NOTES:

- SEE PLANS FOR REQUIRED DUCT SECTIONS. ALL OF THE SECTIONS SHOWN ON THIS DRAWING MAY NOT BE USED ON THIS PROJECT.
- PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG UNUSED CONDUIT ENDS IN HANDHOLES OR MANHOLES.
- WARNING TAPE IS REQUIRED WHEN DUCTS ARE INSTALLED IN AREAS NOT BELOW FULL STRENGTH PAVEMENT. IN AREAS WHERE THE 12" BELOW FINISHED GRADE WILL CONFLICT WITH THE COUNTERPOISE, INSTALL THE WARNING TAPE DIRECTLY ABOVE THE COUNTERPOISE.
- INSTALL A #6 BARE COPPER (BC) GROUND CONDUCTOR IN EACH DUCT ASSEMBLY FROM HANDHOLE/MANHOLE TO HANDHOLE/MANHOLE AND EXOTHERMICALLY WELD TO GROUND RODS IN EACH HANDHOLE OR MANHOLE.
- U.O.N. INSTALL A #6 BARE COPPER (BC) COUNTERPOISE CONDUCTOR W/ EACH DUCT ASSEMBLY AND EACH SINGLE CONDUIT. EXOTHERMICALLY WELD TO GROUND RODS PER SPECS. CONNECT TO GROUNDING SYSTEM PER DETAILS.
- INSTALL LIGHTING SERIES CIRCUITS AS FOLLOWS:
 A. ONE CIRCUIT (1 OR 2 CONDUCTORS) PER 2" CONDUIT. LIMIT 4" CONDUIT TO NO MORE THAN 8 CONDUCTORS.
 B. START INSTALLATION IN BOTTOM CONDUITS OF DUCT ARRAY, LEAVING THE UPPER CONDUITS EMPTY.
- BACKFILL NOTES:
 A. CONCRETE ENCASED APPLICATIONS: FILL TO BOTTOM OF CIVIL SECTION WITH P-610. FOR DIRT INSTALLATIONS: IN MULTIPLE POURS OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) (SEE SPEC P-153), FILL ABOVE P-610 TO COUNTERPOISE AND THEN TO THE WARNING TAPE (IF THERE IS SUFFICIENT SPACE, IF NOT, THE TAPE CAN BE PLACED ON TOP OF THE COUNTERPOISE) AND THEN TO BOTTOM OF TOP SECTION WITH CLSM. ALTERNATIVELY FILL TO BOTTOM OF TOP SECTION WITH 95% COMPACTED P-152.
 B. DIRECT BURIAL APPLICATIONS: IN MULTIPLE POURS OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) (SEE SPEC P-153), FILL TO COUNTERPOISE AND THEN TO THE WARNING TAPE (IF THERE IS SUFFICIENT SPACE, IF NOT, THE TAPE CAN BE PLACED ON TOP OF THE COUNTERPOISE) AND THEN TO BOTTOM OF TOP SECTION WITH CLSM. DIRT INSTALLATION OPTION: COVER CONDUITS WITH MIN. 4" CLSM AND THEN FILL TO BOTTOM OF TOP SECTION WITH 95% COMPACTED P-152.
- P-610 CONCRETE ENCASE UNDER PAVEMENT PER SPECIFICATIONS AND AS OTHERWISE INDICATED ON THE PLANS.
- REFER TO SPECIFICATION ITEM L-110 FOR CONDUIT/DUCT SPACER SYSTEM.
- SEE DETAIL 5/E4-3.4 FOR DUCT SECTIONS (CONDUIT SIZES, NUMBER AND ARRANGEMENT OF CONDUITS IN DUCT).
- ALL AIRPORT OWNED COMMUNICATION CABLES, NEW AND REINSTALLED, SHALL BE INSTALLED IN NEW INNERDUCT. SEE DRAWING E4-4.1 FOR ROUTING.

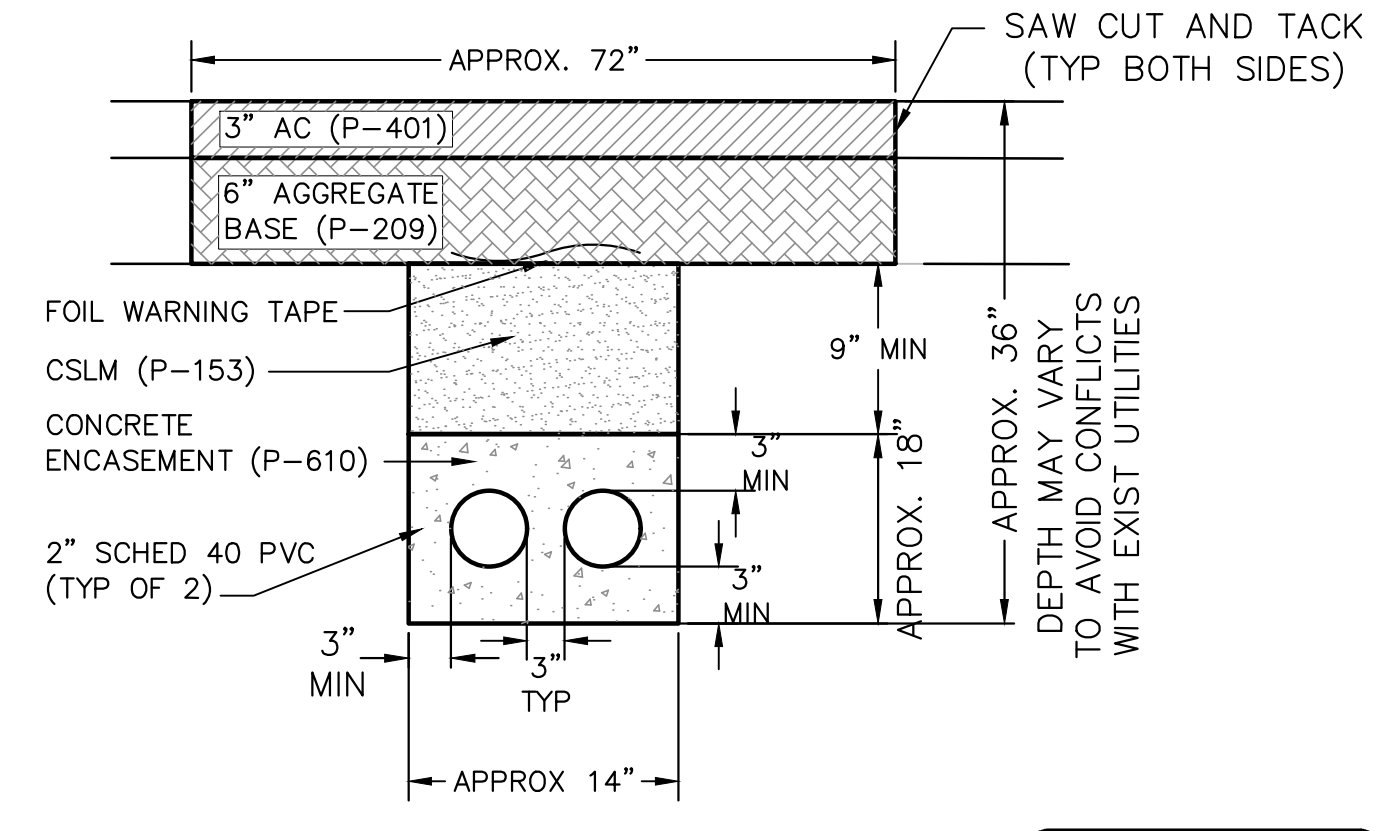


F: 4-4" POWER 4-4" COMM
 (COMMON TRENCH ALT FOR PARALLEL 4-4")

5 DUCT SECTIONS
 E4-3.4 N.T.S. (ALL CONFIGURATIONS MAY NOT BE USED ON THIS PROJECT)



6 DIRECTIONAL BORE DETAIL
 E4-3.4 N.T.S.



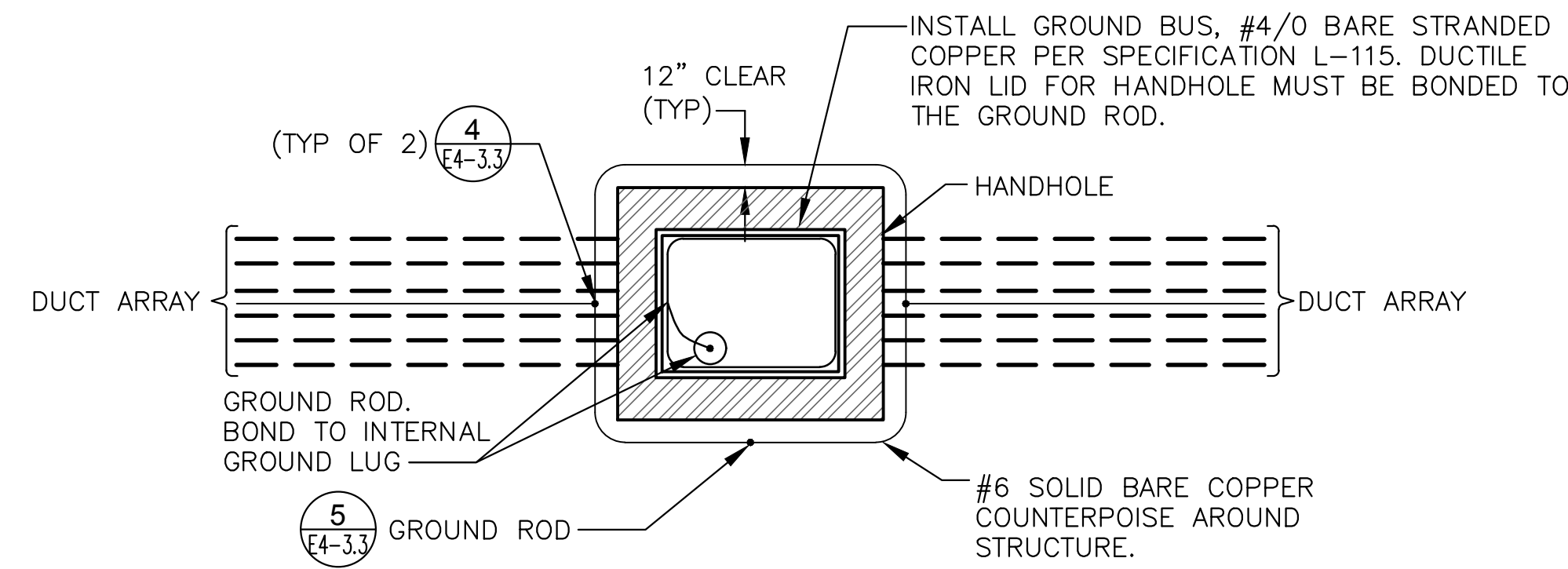
4 PAVEMENT REPAIR TRENCH DETAIL
 E4-3.4 N.T.S.



 KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5000	
SCALE: Horiz. N/A, Vert. N/A, Date: 04/26/2023 Designed by: DJC, Drawn by: DJC, Checked by: DJC, Approved by: SHRL	
 PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 (480) 968-7500 www.phoenixgateway.org	
PROJECT NAME: PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) DUCT BANK DETAILS	
PROJECT NO. 091134047	FILE NO. 091134047EZ
SHEET 206 of 211	

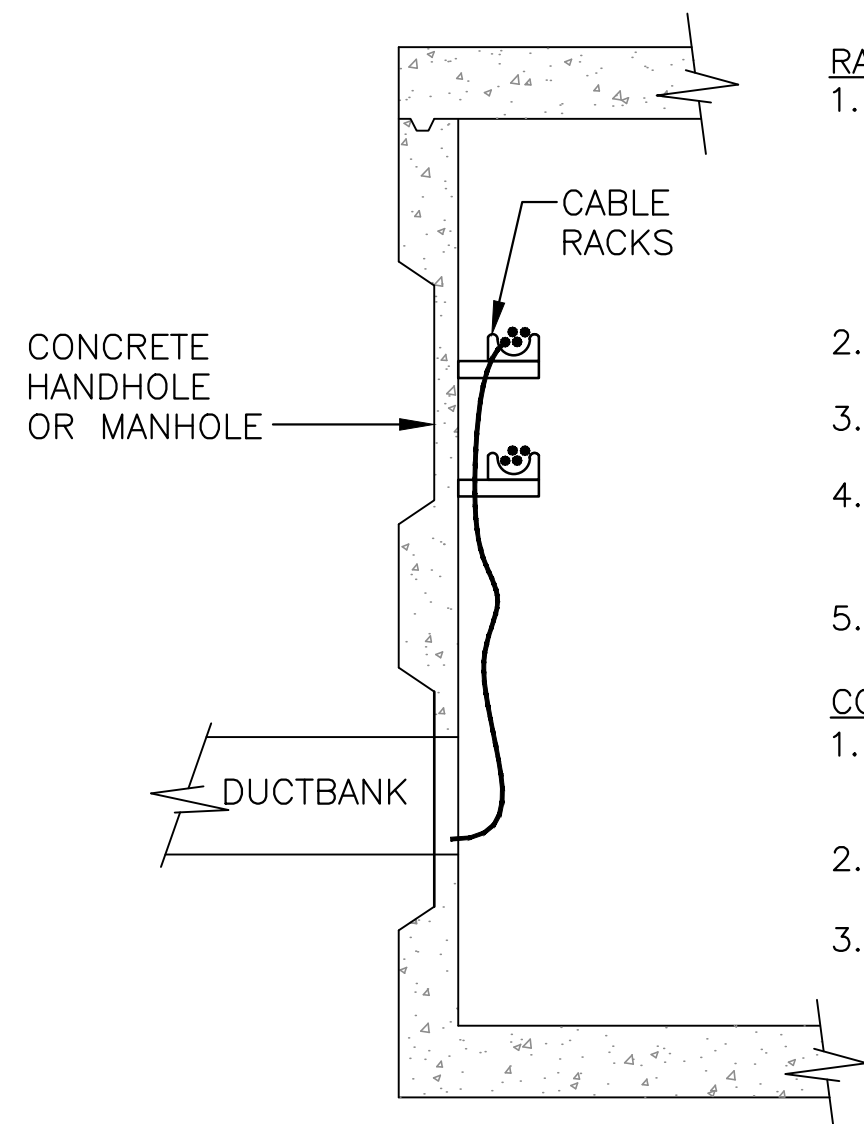
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NOTES:
 ALL COUNTERPOISE WIRES FOR DUCT BANKS AND CONDUITS TO BE CLAMPED TO COUNTERPOISE LOOP AROUND STRUCTURE

2 HANDHOLE COUNTERPOISE DETAIL
 E4-3.5 N.T.S.



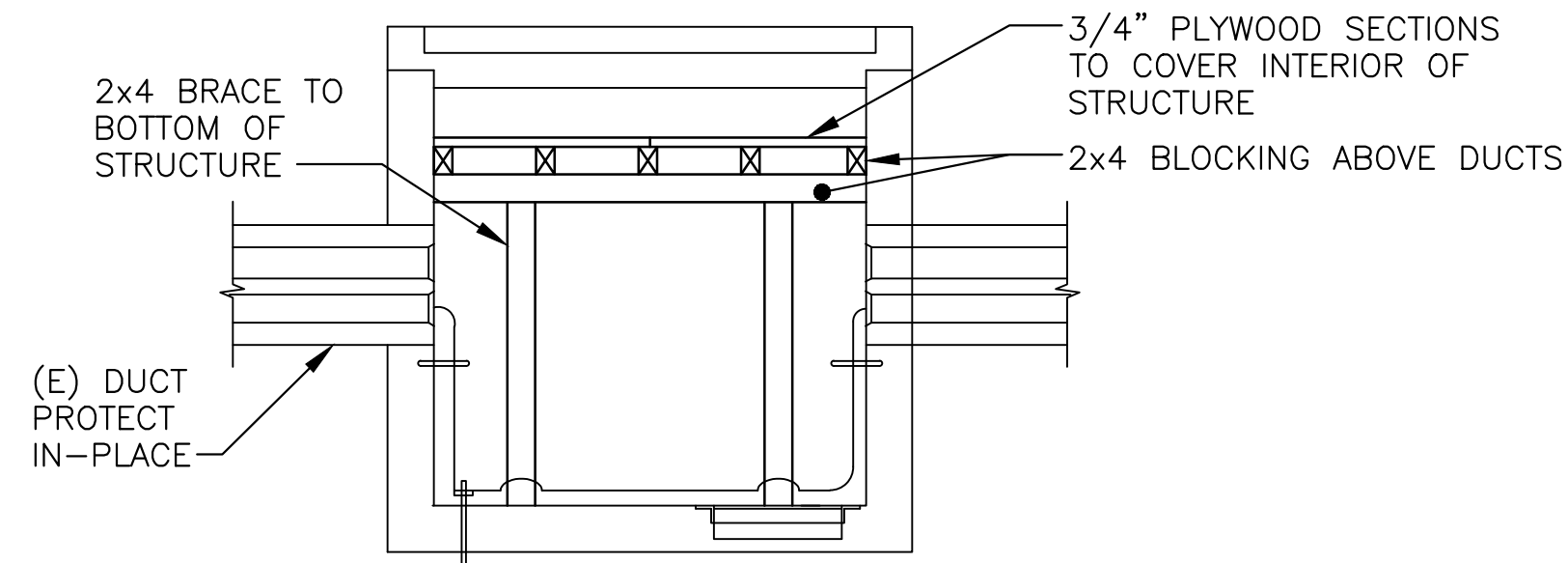
RACKING NOTES:

1. PROVIDE METALLIC SADDLE TYPE CABLE RACKS WITH PORCELAIN INSULATORS, BOLTED TO CHANNELS INSET IN MANHOLE/HANDHOLE WALLS. PROVIDE MIN. (2) SADDLE RACK TYPE ARMS WITH (2) SADDLES FOR EVERY WALL. SEE SPECS.
2. CABLE RACKING SHALL BE LIMITED TO THE UPPER HALF OF THE HANDHOLE.
3. PROVIDE CIRCUIT TAGS FOR EVERY L-823 CABLE SPLICE.
4. PROVIDE A MIN. OF TEN FEET OF CABLE BETWEEN ENTRY/EXIT POINTS AND L-823 SPLICE.
5. RACK CABLES ON SIDE(S) OF ENTRY/EXIT CONDUITS.

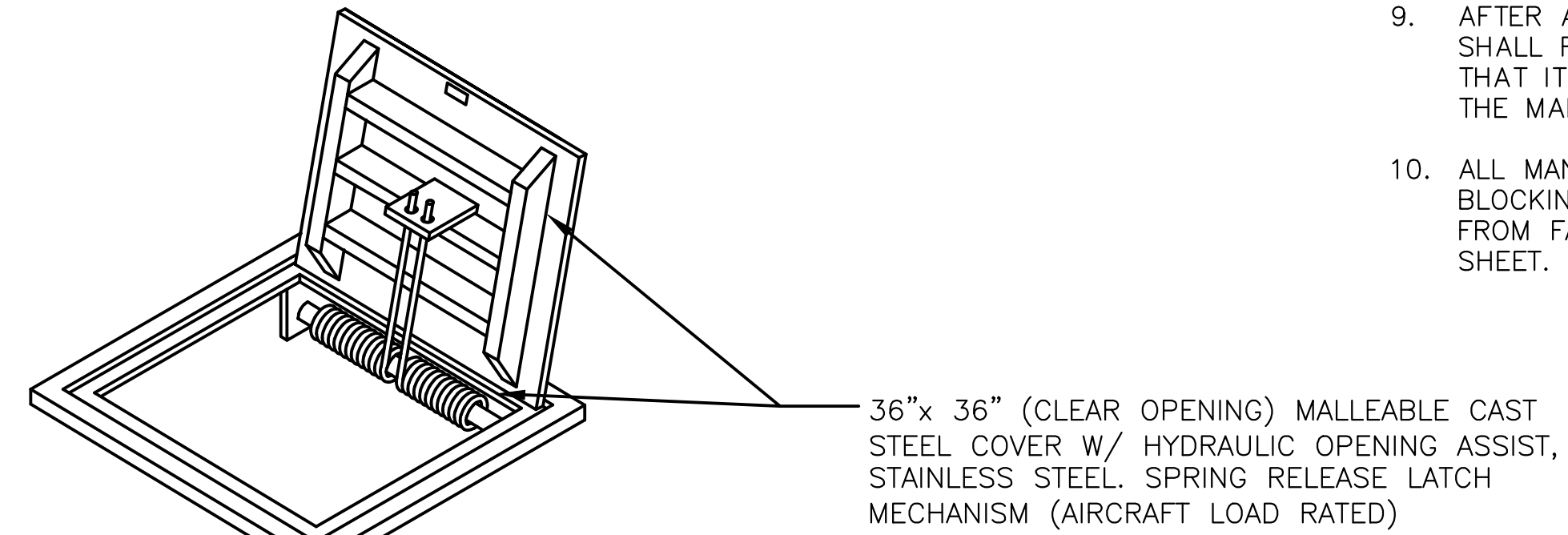
CONDUIT NOTES:

1. DUCT/CONDUIT ARRAY SHALL ENTER HANDHOLE IN LOWER HALF OF THE HANDHOLE.
2. PROVIDE BELL END FOR EVERY CONDUIT IN THE ARRAY.
3. GROUT AROUND/BETWEEN CONDUITS & CONCRETE WALL.

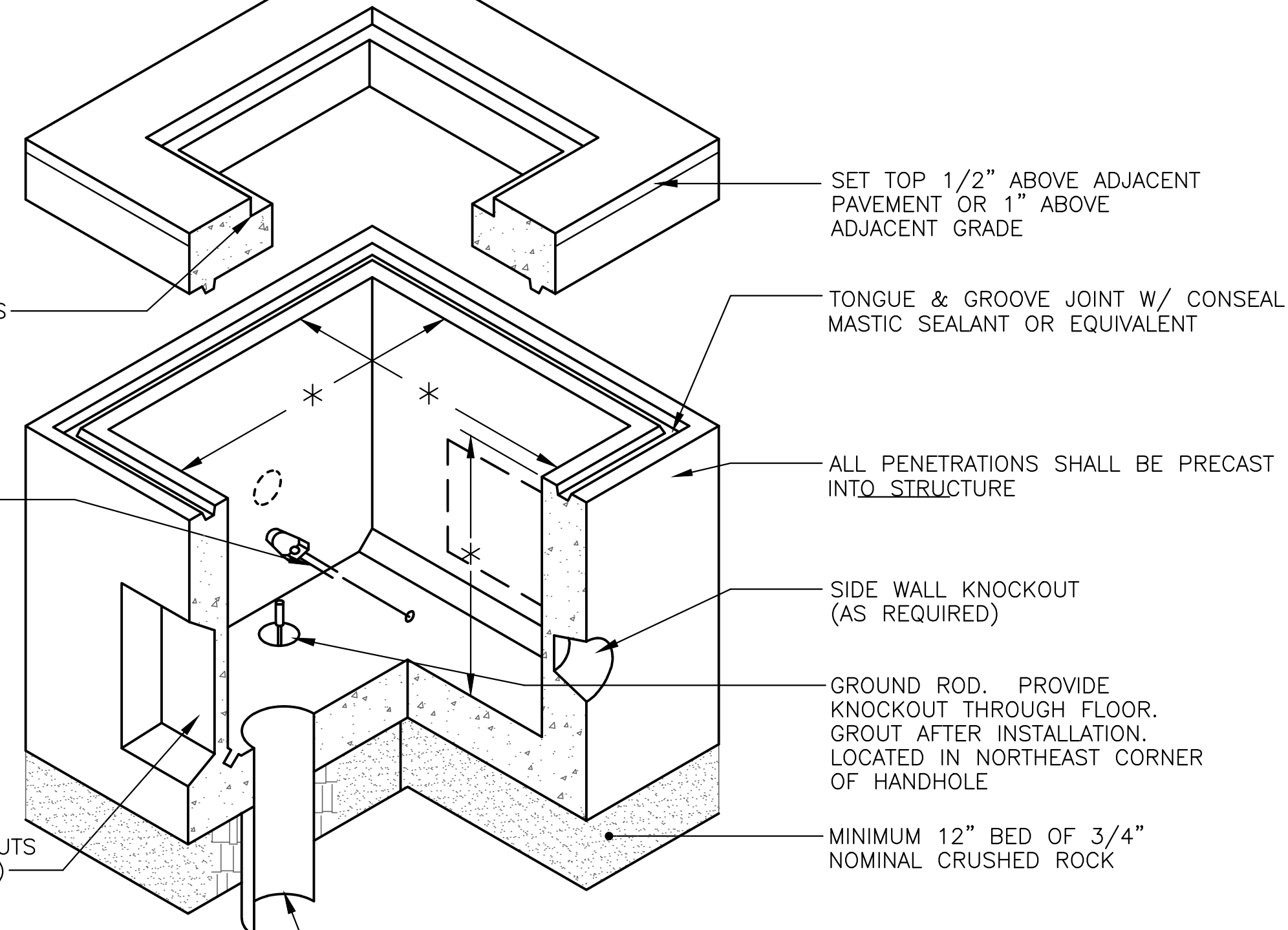
3 CABLE RACKING DETAIL
 E4-3.5 N.T.S.



4 MANHOLE/HANDHOLE PROTECTION DETAIL
 E4-3.5 N.T.S.



TOP SECTION



LOWER SECTION

1 HANDHOLE - TYPE 1
 E4-3.5 N.T.S. (AIRCRAFT LOAD RATED, SEE SPEC L-115)

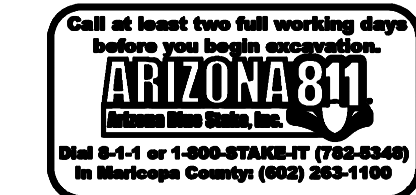
***HANDHOLE DIMENSIONS**

USE	LENGTH	WIDTH	DEPTH
POWER	48"	48"	48"
COMMUNICATIONS	60"	60"	60"

DEPTH MAY VARY TO ACCOMMODATE DUCT/CONDUIT GRADING

HANDHOLE AND MANHOLE NOTES:

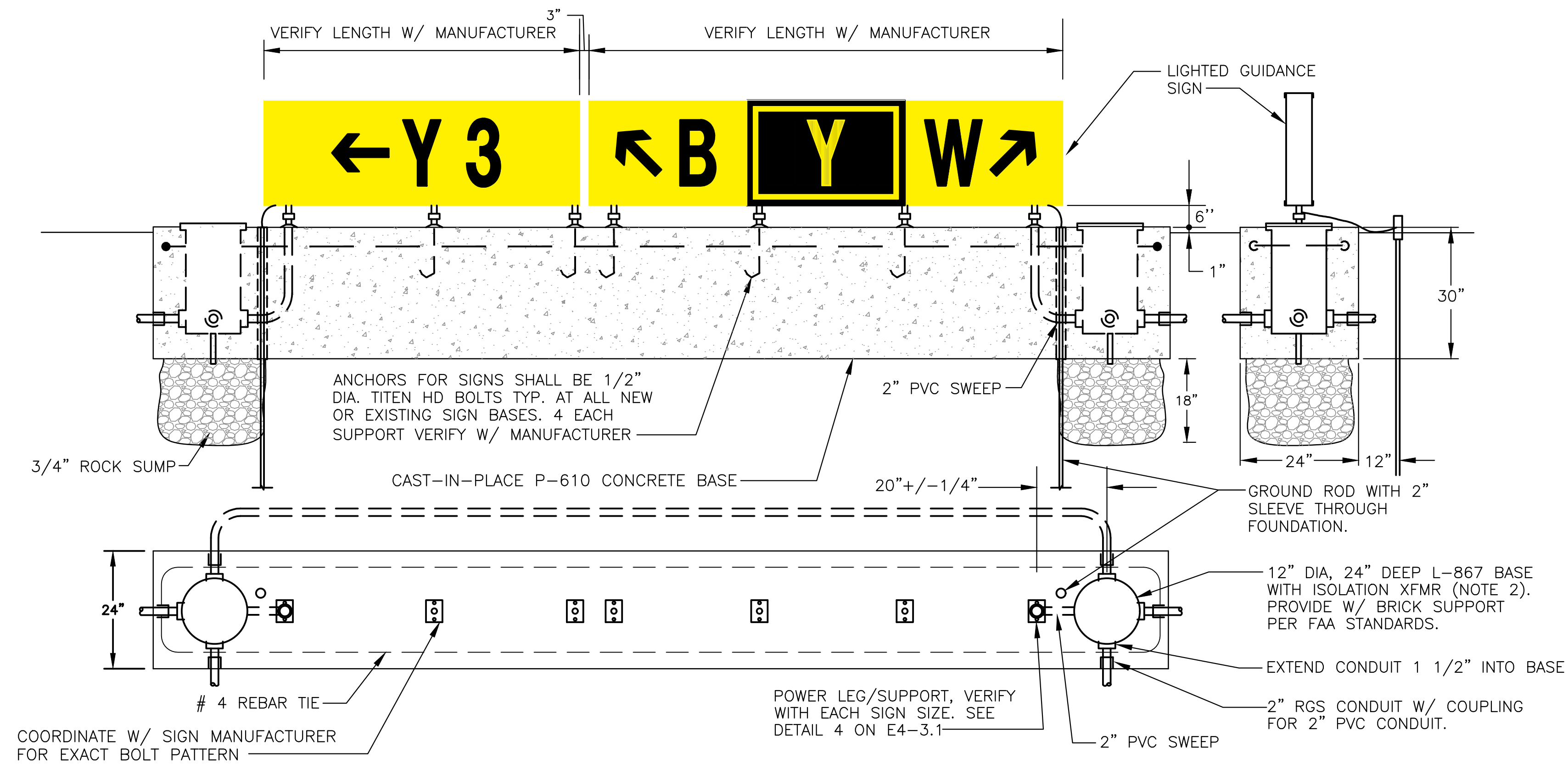
1. ALL STEEL, OTHER THAN REBAR, TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
2. PROVIDE ALL HANDHOLES WITH CABLE RACKS & PULLING EYES PER SPECIFICATIONS.
3. INSTALL HANDHOLES PARALLEL TO ADJACENT R/W OR T/W CENTERLINE UNLESS NOTED OTHER WISE.
4. PROVIDE GROUND ROD FOR EACH HANDHOLE PER SPECIFICATIONS.
5. GROUT ALL CONDUIT PENETRATIONS.
6. PROVIDE MANUFACTURER'S DRAWINGS AND STRUCTURAL CALCULATIONS FOR ALL CONCRETE ELEMENTS OF HANDHOLES AND FABRICATED TRAFFIC LIDS.
7. NOTE: DO NOT CONNECT COUNTERPOISE TO GROUNDING SYSTEM, ROUTE AROUND HANDHOLES, SEE DETAIL 2/E4-3.6.
8. PROVIDE CABLE RACKING PER DETAIL 3/E4-3.6 AND CABLE ROUTING IDENTIFICATION PER DETAIL 1/E4-3.5.
9. AFTER ADJUSTING MANHOLE TO GRADE, THE CONTRACTOR SHALL REPLACE THE LADDER AS NECESSARY TO ENSURE THAT IT IS THE CORRECT LENGTH FOR THE NEW DEPTH OF THE MANHOLE.
10. ALL MANHOLES OR HANDHOLES TO BE MODIFIED SHALL HAVE BLOCKING INSTALLED TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE STRUCTURE, SEE DETAIL 4 THIS SHEET.



PROJECT NO. 091134047		FIRMS NAME Kimley»Horn	
FILE NO. 091134047E2		FIRMS SEAL 	
E4-3.5		SCALE Horiz. N/A Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	
SHEET 208 of 211		Phoenix-Mesa Gateway Airport TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) HAND HOLE DETAILS PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 (480) 968-7600 www.phxmesagateway.org	

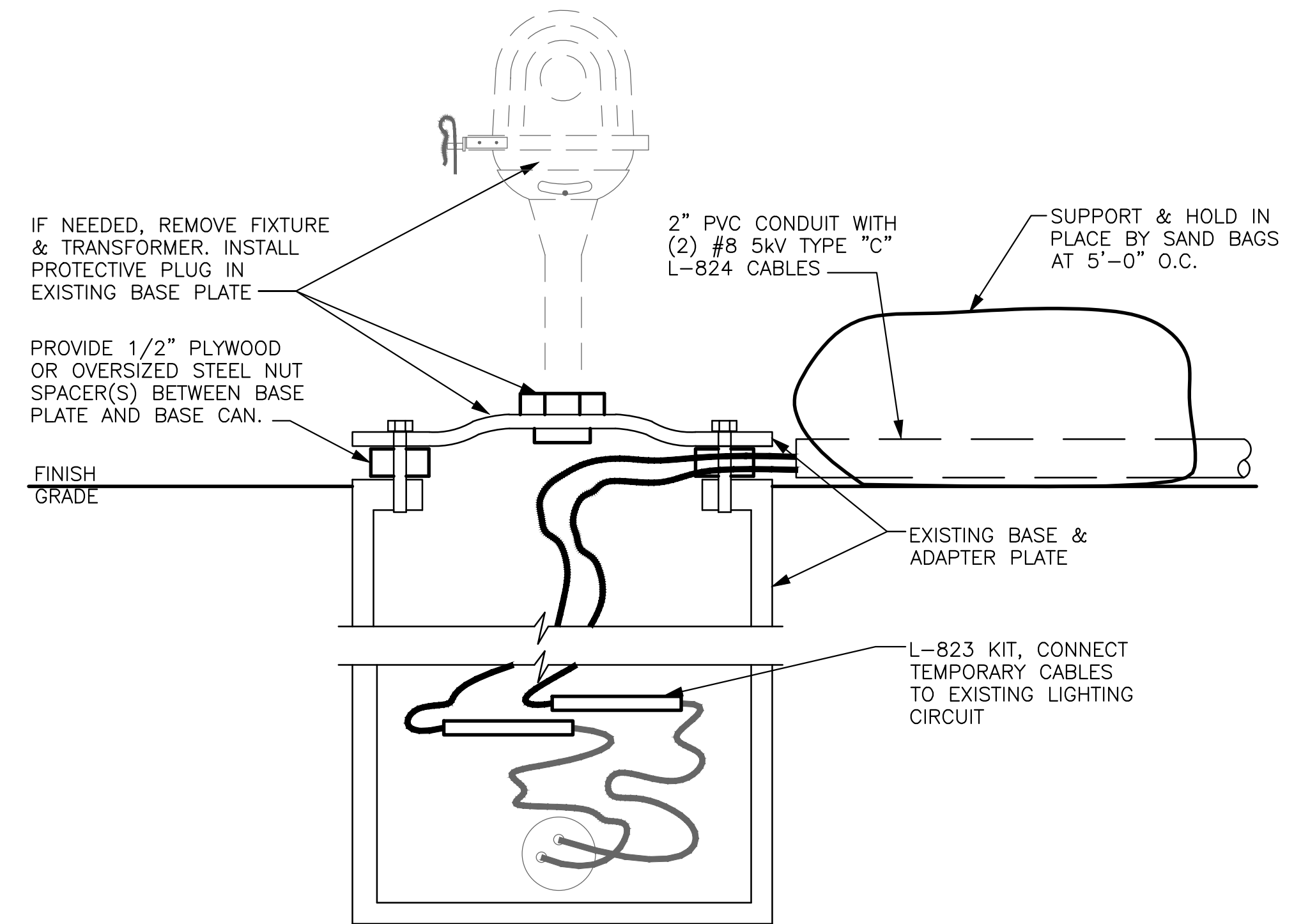
SIGN INSTALLATION NOTES:

1. VERIFY ALL DIMENSIONS OF SIGN FACES, SIGN PEDESTALS, AND SIGN FACE SPACING WITH MANUFACTURER BEFORE INSTALLATION.
2. PROVIDE NEW TRANSFORMERS WITH NEW SIGNS. SIZE TRANSFORMERS PER MANUFACTURERS RECOMMENDATIONS.
3. REFER TO DETAIL 2/E4-1 FOR GRADING DETAIL AROUND SIGN BASES WHERE EXTRA GRADING IS REQUIRED TO MEET BASE REVEAL SLOPE REQUIREMENTS.

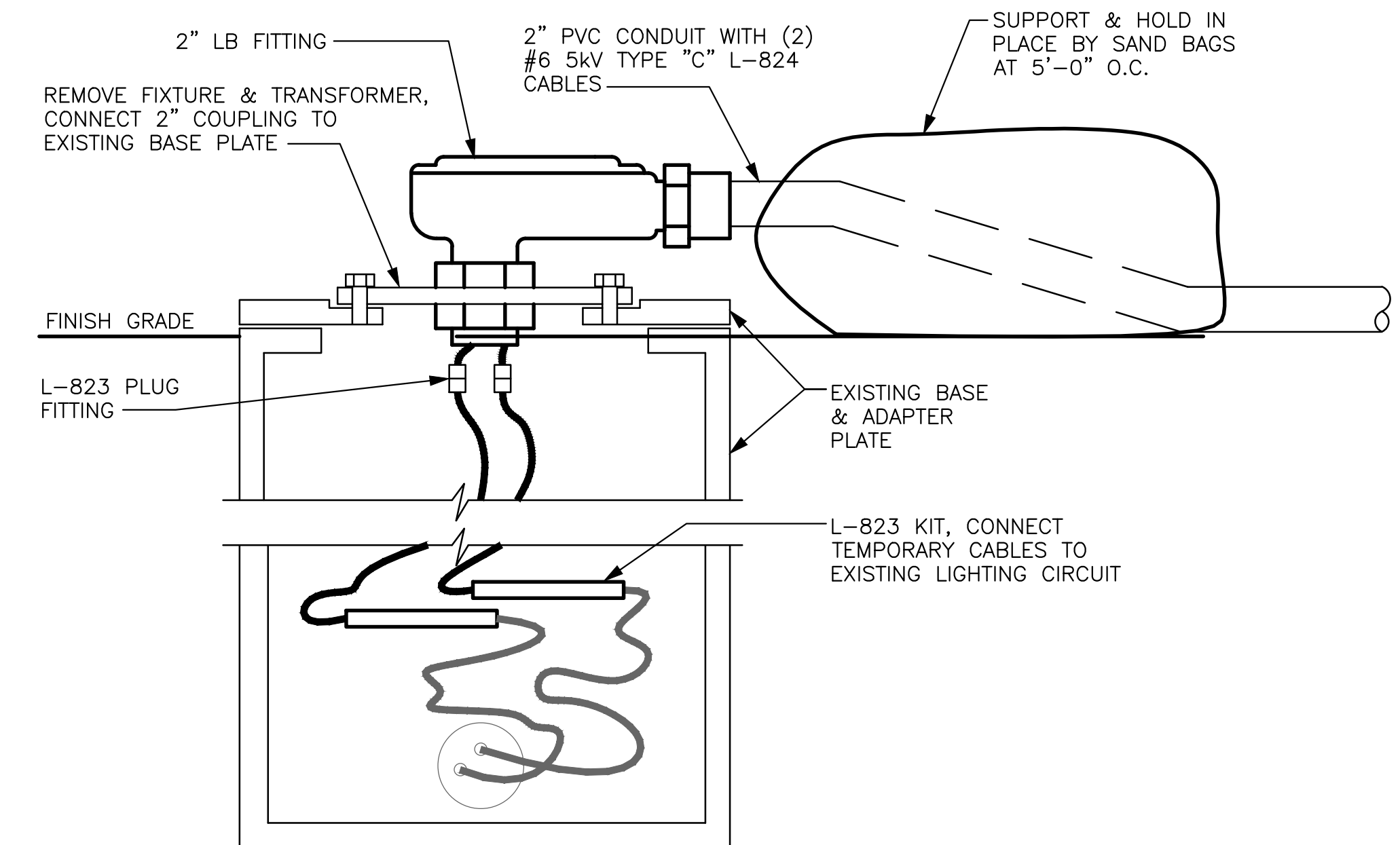


2 T/W GUIDANCE SIGN - NEW BASE DETAIL
E4-3.6 N.T.S.

THE BASE CAN/TRANSFORMER HOUSING INDICATED ON THE SIGN BASE DETAIL SHALL HAVE A 1" DIAMETER PVC DRAIN AND AN 24" DIAMETER BY 18" DEPTH GRAVEL (3/4" GRAVEL) SUMP BENEATH IT.



1 TEMPORARY CONNECTION AT EXISTING FIXTURE OR BASE
E4-3.6 N.T.S.

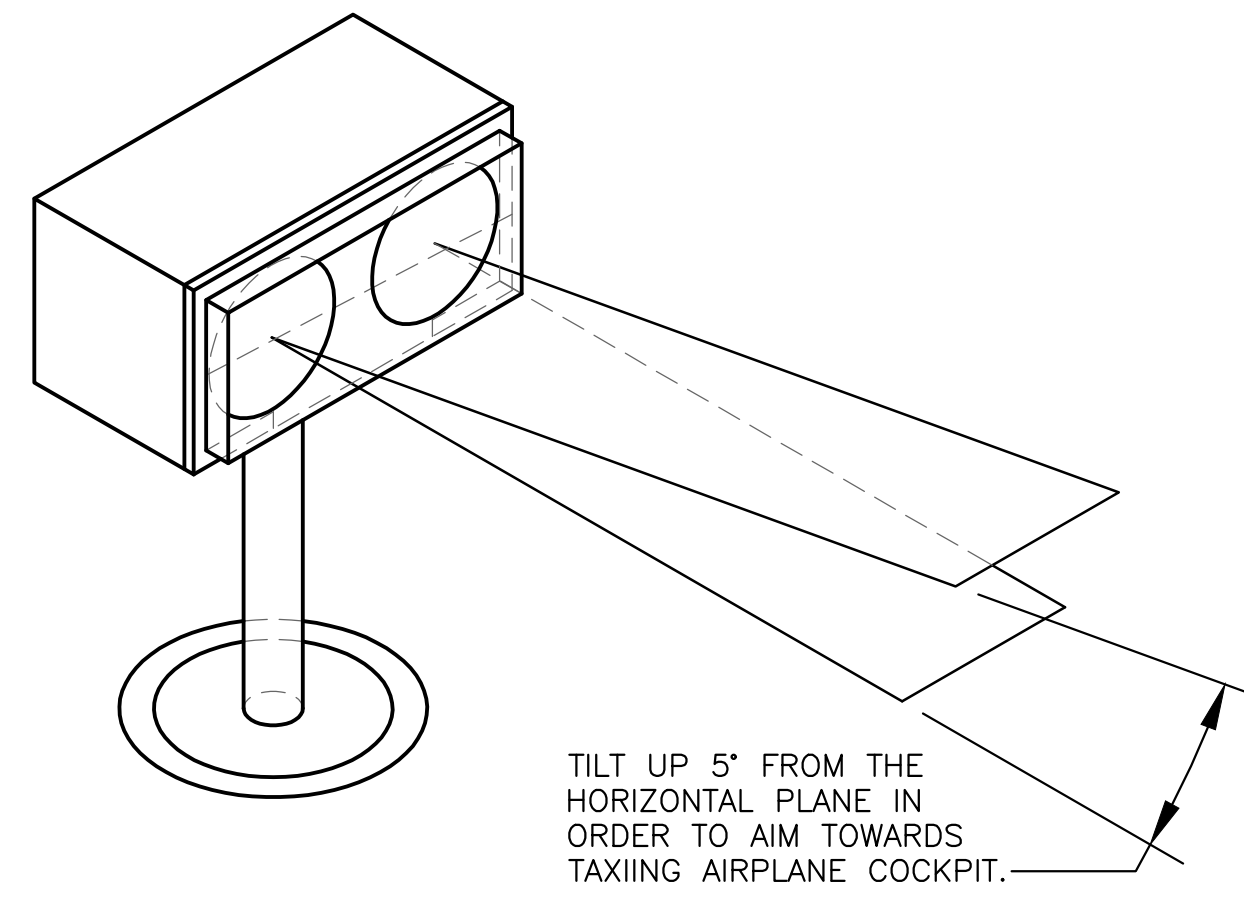


1A ALTERNATIVE TEMPORARY CONNECTION AT EXISTING FIXTURE OR BASE
E4-3.6 N.T.S.

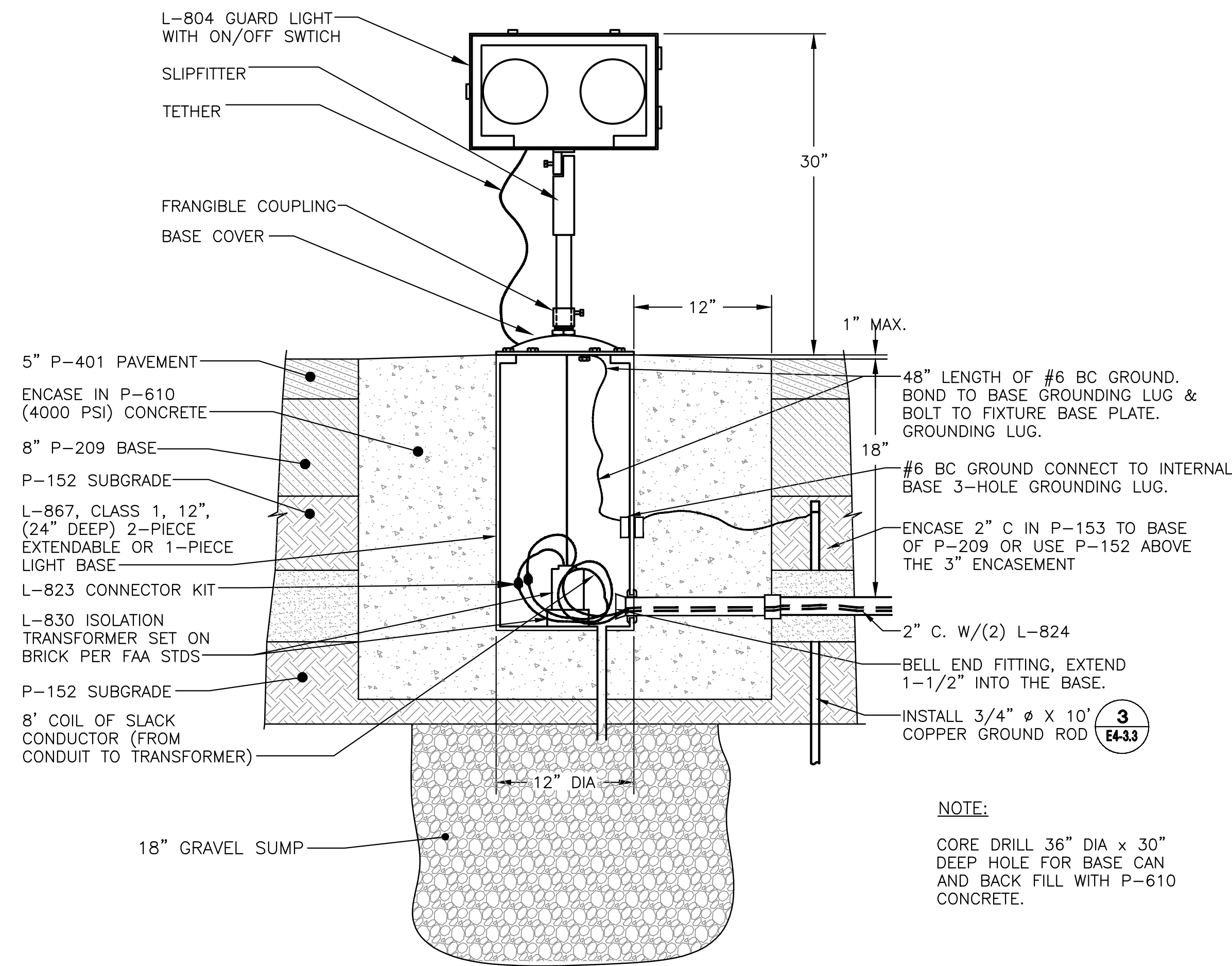


PROJECT NO. 091134047		FILE NO. 091134047EZ		E4-3.6		SHEET 207 of 211	
PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) TEMPORARY LIGHTING DETAILS		FIRMS SEAL DUSTIN J. COLWELL 63809 REGISTERED ELECTRICAL ENGINEER STATE OF ARIZONA		FIRMS NAME Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5600		NO. _____	
SCALE Horiz. N/A Vert. N/A		Date 04/26/2023		Designed by DJC		Checked by DJC	
				Drawn by DJC		Approved by SHL	
PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMAN ROAD MESA, AZ 85212 480.968.7600 www.phoenixgateway.org						BY DATE	

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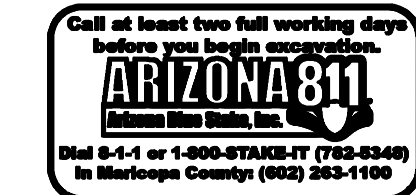


2 ELEVATED GUARD LIGHT AIMING DETAIL
E4-3.7 N.T.S.



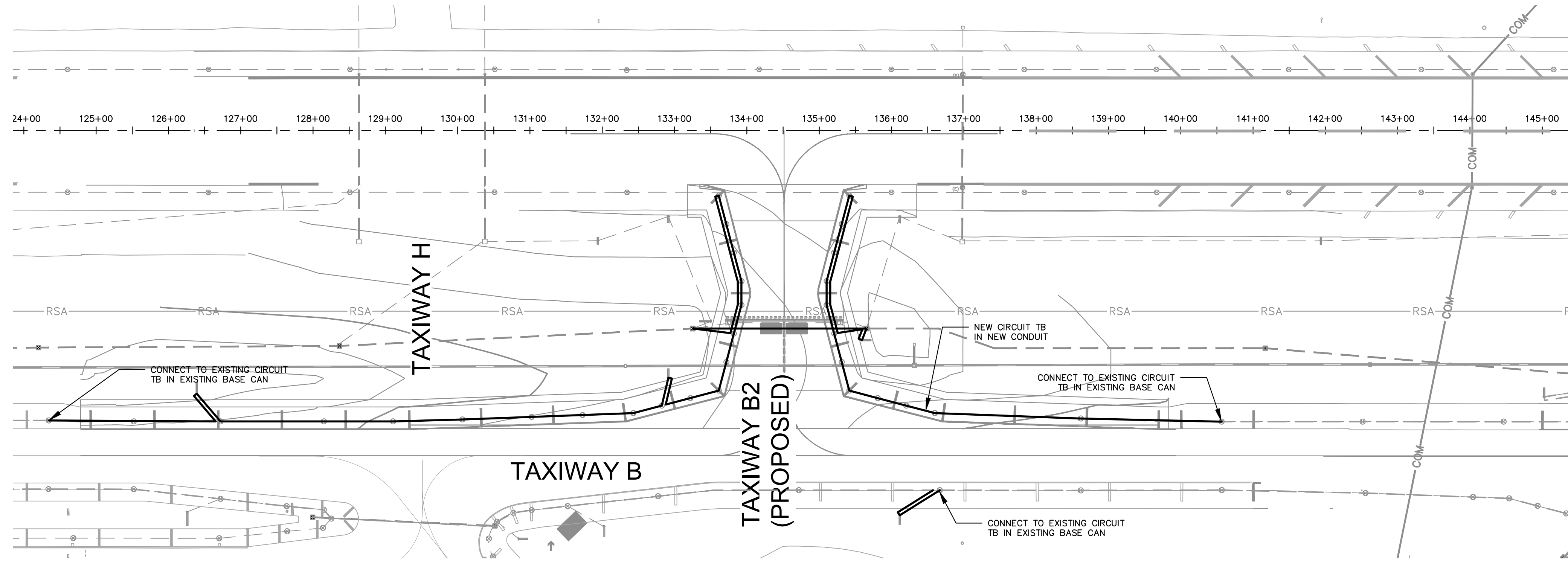
1 ELEVATED GUARD LIGHT DETAIL
E4-3.7 N.T.S.

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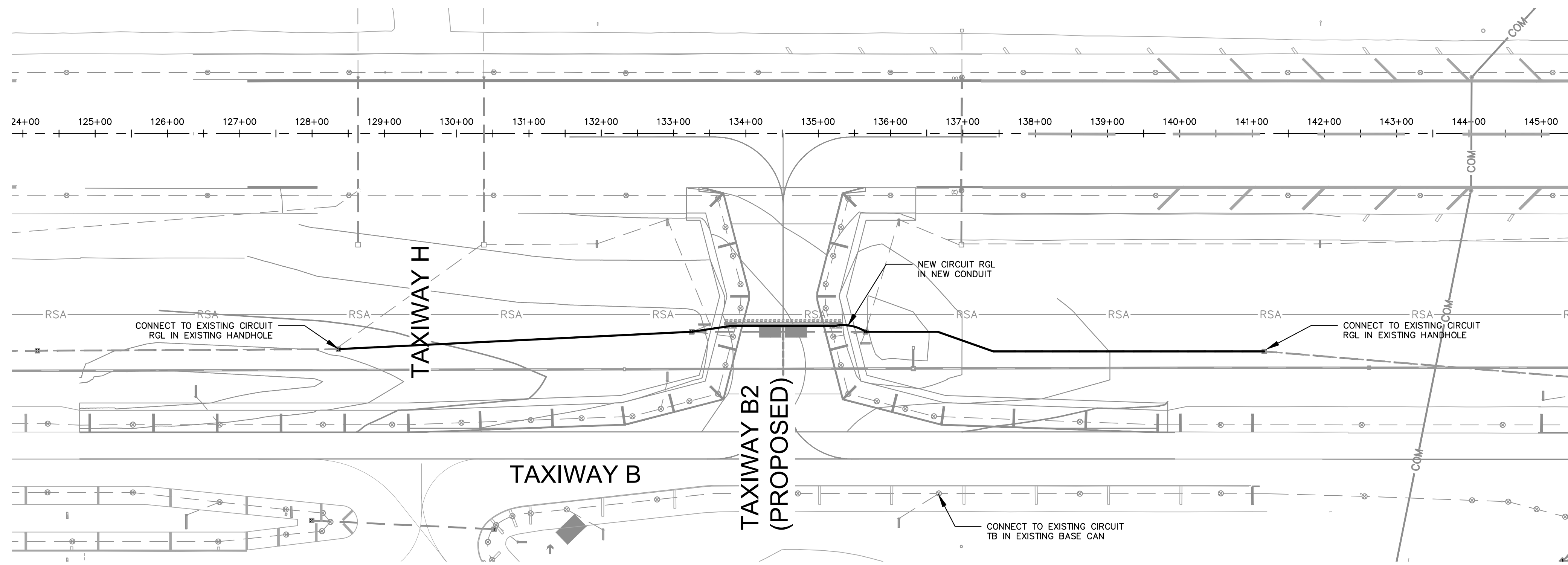


PROJECT NO. 091134047		FIRM'S NAME Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500	
FILE NO. 091134047E2		FIRM'S SEAL DUSTIN J. COLWELL Professional Engineer No. 63909 Expires 6/30/23	
SHEET E4-3.7		SCALE Horiz. N/A Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	
PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) RGL DETAILS		PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMMAN ROAD MESA, AZ 85212 PH: 480.968.7600 www.phoenixgateway.org	
SHEET 209 of 211		NO. REVISION BY DATE	

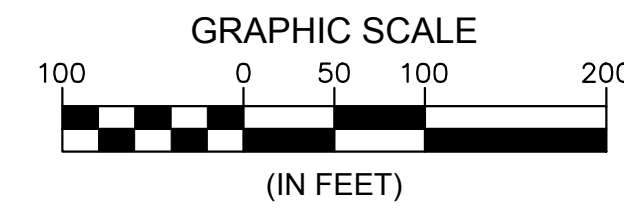
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1
E4-4.1
CIRCUIT MAP - TB
N.T.S.

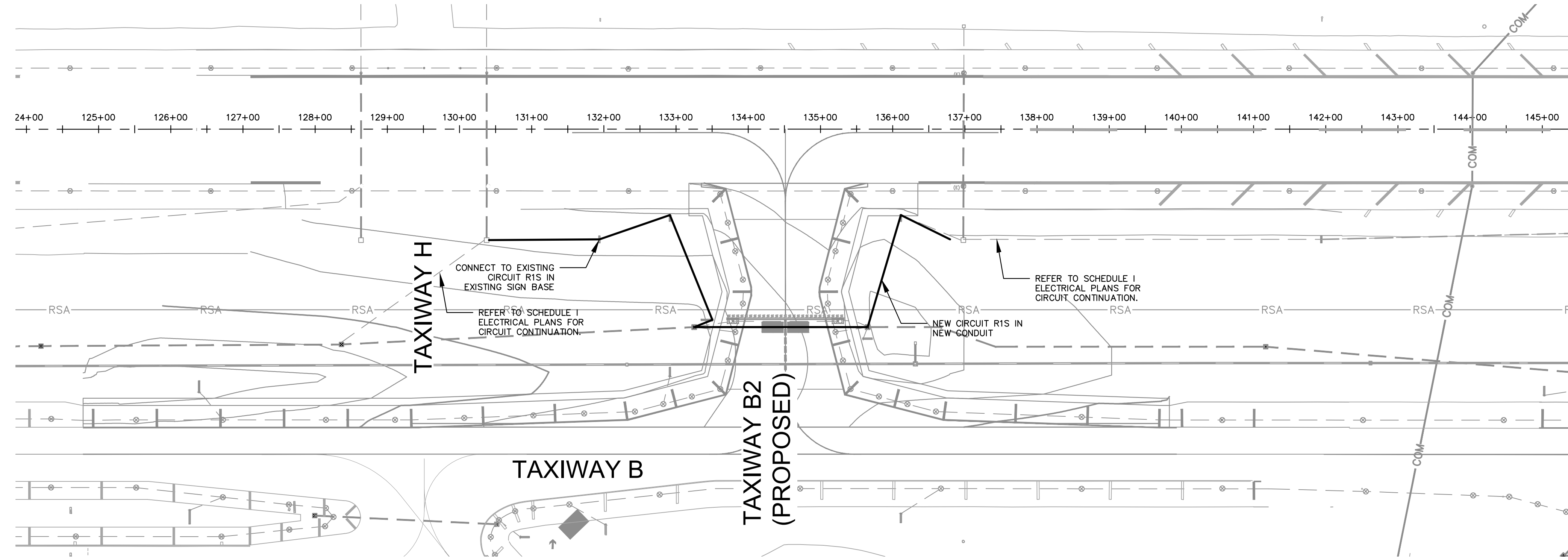


1
E4-4.1
CIRCUIT MAP - RGL
N.T.S.

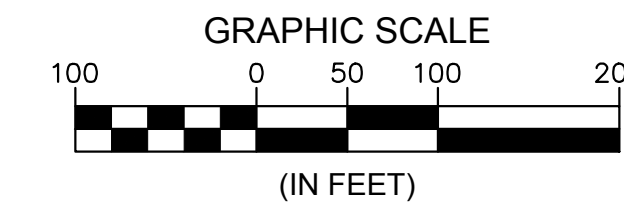


PROJECT NO. 091134047 FILE NO. 091134047EC E4-4.1 SHEET 210 of 211		PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) CIRCUIT MAP	FIRM'S NAME Kimley»Horn <small>KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500</small>	FIRM'S SEAL 	SCALE Horiz. 1" = 40' Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JPC Checked by DJC Approved by SHL	NO. _____ REVISION _____ BY DATE _____
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1
E4-4.1
CIRCUIT MAP - R1S
N.T.S.



PROJECT NAME PHOENIX-MESA GATEWAY AIRPORT TAXIWAY B2 (TAXIWAY H RELOCATION) (SCH IV) CIRCUIT MAP		FIRMS NAME Kimley»Horn KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5900	
PROJECT NO. 091134047		FIRMS SEAL DUSTIN J. COLWELL Professional Engineer No. 63909 Expires 6/30/23	
FILE NO. 091134047EC		SCALE Horiz. 1" = 40' Vert. N/A Date 04/26/2023 Designed by DJC Drawn by JFC Checked by DJC Approved by SHL	
SHEET 211 of 211		PHOENIX-MESA GATEWAY AIRPORT AUTHORITY 5835 SOUTH SOSSAMMAN ROAD MESA, AZ 85212 PH: 480.968.7600 www.phoenixgateway.org	