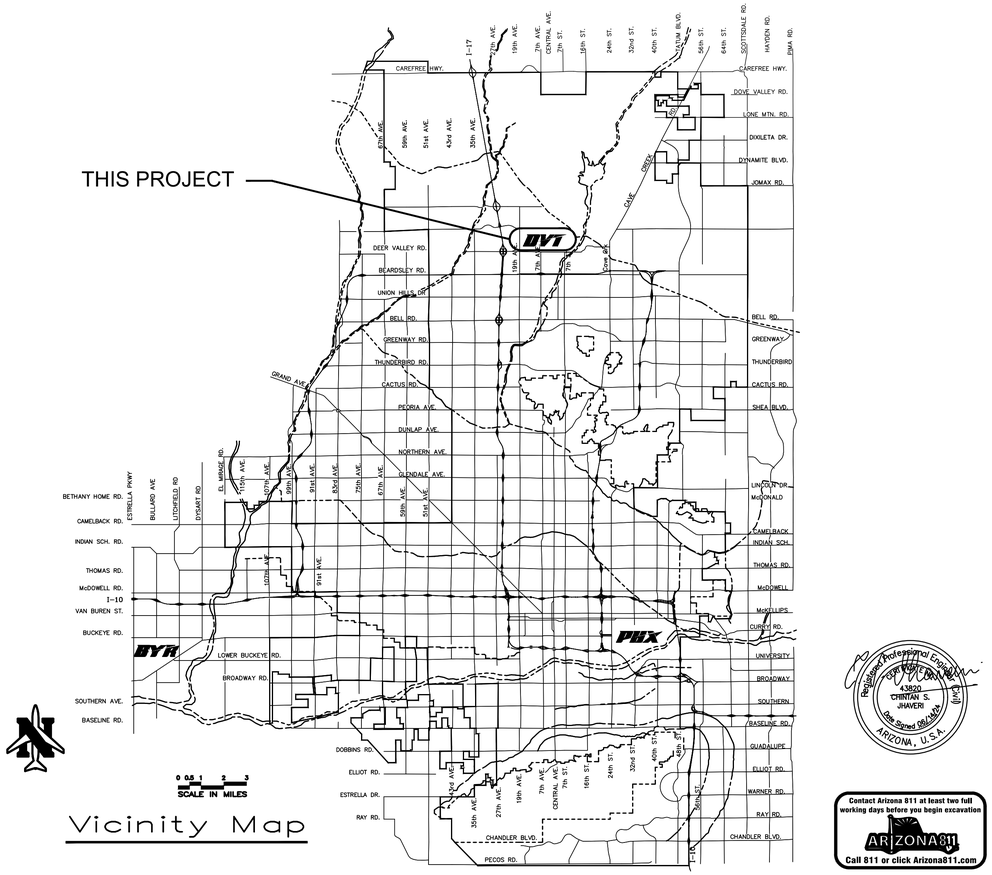
CITY OF PHOENIX

AVIATION DEPARTMENT

DESIGN & CONSTRUCTION SERVICES

PROJECT NAME	**DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)**
ADDRESS	**702 WEST DEER VALLEY DRIVE, PHOENIX, AZ 85027**
PROJECT NUMBERS	**AV31000096 ADOT**
ADOT GRANT NUMBER	**E2S4V 01C & E3S3K 01C**



Vicinity Map

MAYOR
KATE GALLEGO

VICE MAYOR
DEBRA STARK

CITY COUNCIL

DISTRICT NO. 1 ANN O'BRIEN
DISTRICT NO. 2 JIM WARING
DISTRICT NO. 3 DEBRA STARK
DISTRICT NO. 4 LAURA PASTOR
DISTRICT NO. 5 BETTY GUARDADO
DISTRICT NO. 6 KEVIN ROBINSON
DISTRICT NO. 7 CARLOS GALINDO—ELVIRA
DISTRICT NO. 8 KESHA HODGE WASHINGTON

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CITY MANAGER — JEFFREY BARTON

CITY ENGINEER — ERIC FROBERG, P.E.

DIRECTOR OF AVIATION SERVICES — CHAD R. MAKOVSKY, A.A.E.

APPROVALS

DEPUTY AVIATION DIRECTOR
DESIGN & CONSTRUCTION SERVICES DIVISION — DATE

CITY ENGINEER — DATE

Registered Professional Engineer
43820
CHINTAN S. JHAVERI
Date Signed 09/16/22
ARIZONA, U.S.A.

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AV31000096 ADOT - GMP 1 FINAL PLANS

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

APPROXIMATE QUANTITY SUMMARY

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	APPROXIMATE QUANITY
1	SP-11.1	PROJECT FIELD OFFICE	LS	1
2	SP-30.1	CONSTRUCTION SURVEY LAYOUT	LS	1
3	SP-31.1	MISCELLANEOUS REMOVALS AND OTHER WORK (ALLOWANCE)	ALLOWANCE	1
4	SP-34.1	UNFORESEEN UTILITY LOCATING (ALLOWANCE)	ALLOWANCE	1
5	SP-35.1	EXISTING UTILITY RELOCATIONS (ALLOWANCE)	ALLOWANCE	1
6	SP-37.1	REMOVE, HAUL, AND STOCKPILE CRUSHED AGGREGATE SLOPE PROTECTION	SY	14,089
7	SP-38.1	HAUL AND PLACE CRUSHED AGGREGATE SLOPE PROTECTION	SY	12,120
8	SP-40.1	OVER EXCAVATION OF UNSUITABLE MATERIALS AND BACKFILL WITH SELECT MATERIAL (ALLOWANCE)	CY	37
9	SP-41-8.1	AIRPORT SAFETY AND SECURITY (M-003)	LS	1
10	SP-42-5.1	LOCATION OF UNDERGROUND UTILITIES (U-200)	LS	1
11	SP-43.1	APPLY HERBICIDE AND PRE-EMERGENT	SY	12,120
12	C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQPM)	LS	1
13	C-102-6.1	STORMWATER POLLUTION PREVENTION PLAN	LS	1
14	C-105	MOBILIZATION (MAXIMUM 4%)	LS	1
15	P-101-5.1a	REMOVE ASPHALT CONCRETE PAVEMENT FULL DEPTH	SY	2,716
16	P-101-5.1b	REMOVE EXISTING CATCH BASIN	EA	1
17	P-151-4.1	CLEARING AND GRUBBING	LS	1
18	P-152-4.1	UNCLASSIFIED EXCAVATION	CY	1,975
19	P-155-8.1	LIME-TREATED SUBGRADE (12", 5.5%)	SY	5,967
20	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	SY	5,580
21	P-401-8.1	ASPHALT SURFACE COURSE	TON	1,565
22	P-603-5.1	EMULSIFIED ASPHALT TACK COAT	TON	7
23	P-620-5.1a	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	SF	5,170
24	P-620-5.2b.1	YELLOW PAVEMENT MARKING	SF	3,976
25	P-620-5.2b.2	WHITE PAVEMENT MARKING	SF	743
26	P-620-5.2b.3	RED PAVEMENT MARKING	SF	425
27	P-620-5.2b.4	BLACK PAVEMENT MARKING	SF	10,772
28	P-620-5.3c	REFLECTIVE MEDIA	LS	1
29	P-620-5.4d	TEMPORARY MARKINGS	LS	1
30	D-701-5.4	4 INCH HDPE UNDERDRAIN PIPE COMPLETE (INCLUDING POROUS BACKFILL AND FILTER FABRIC)	LF	40
31	D-751-5.1	CONSTRUCT TRIPLE CATCH BASIN PER PLANS, WITH CONCRETE APRON PER ADOT DETAIL C-15.80	EA	2
32	L-100-5.1	REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN	EA	18
33	L-100-5.2	REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN	EA	15
34	L-100-5.3	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN	EA	1
35	L-100-5.4	REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN	EA	1
36	L-100-5.5	REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN	EA	2
37	L-100-5.6	REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN	EA	2
38	L-100-5.7	REMOVE EXISTING JUNCTION CAN / PULL BOX	EA	2
39	L-100-5.8	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR	LF	2,300
40	L-100-5.9	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN	LF	1,600
41	L-100-5.10	EXCAVATE AND REMOVE EXISTING CONCRETE ENCASED DUCTBANK	LF	100
42	L-100-5.11	REMOVE AND SALVAGE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, REMOVE CONCRETE SIGN BASE	EA	5
43	L-100-5.12	REMOVE AND SALVAGE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, CONCRETE SIGN BASE TO REMAIN	EA	4
44	L-100-5.13	EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE	EA	2
45	L-100-5.14	REMOVE SIGN PANELS FROM EXISTING AIRFIELD GUIDANCE SIGN	EA	2
46	L-100-5.15	TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS	LS	1
47	L-108-5.1	L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, #6 GROUND	LF	3,145
48	L-108-5.2	L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, #6 GROUND	LF	2,805
49	L-110-5.1	SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)	LF	825
50	L-110-5.2	SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED	LF	2,780
51	L-110-5.3	SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED	LF	220
52	L-110-5.4	MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED	LF	50
53	L-110-5.5	MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED	LF	235
54	L-110-5.6	MULTIPLE-WAY, (2) - 4" CONDUIT, SLURRY ENCASED	LF	185
55	L-110-5.7	MULTIPLE-WAY, (2) - 4" CONDUIT, CONCRETE ENCASED	LF	95
56	L-115-5.1	NEW HANDHOLE, PREFABRICATED CONCRETE 4'X4'X4' WITH AIRCRAFT RATED LID, FURNISHED AND INSTALLED	EA	4
57	L-115-5.2	PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE	EA	4
58	L-115-5.3	NEW L-867B JUNCTION CAN WITH STEEL BLANK COVER	EA	4
59	L-125-5.1	NEW L-804(L) LED ELEVATED RGL WITH ON/OFF SWITCH AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN	EA	1
60	L-125-5.2	INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN	EA	4

APPROXIMATE QUANTITY SUMMARY

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	APPROXIMATE QUANITY
61	L-125-5.3	NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	3
62	L-125-5.4	SALVAGED SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	1
63	L-125-5.5	NEW L-858(L) SIZE 1, STYLE 2, 3-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	5
64	L-125-5.6	SALVAGED SIZE 1, STYLE 2, 3-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	1
65	L-125-5.7	NEW L-858(L) SIZE 1, STYLE 2, 4-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	1
66	L-125-5.8	SALVAGED SIZE 1, STYLE 2, 4-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	1
67	L-125-5.9	SALVAGED SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD	EA	1
68	L-125-5.10	INSTALL NEW SIZE 1 SIGN PANELS IN EXISTING SIGNS	EA	10
69	L-125-5.11	NEW ELEVATED L-861T(L) LED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN	EA	36
70	L-125-5.12	NEW ELEVATED L-861T QUARTZ TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN	EA	21
71	L-125-5.13	NEW STEEL BLANK COVER PLATE ON EXISTING L-867B TAXIWAY EDGE LIGHT BASE	EA	16
72	L-125-5.14	SALVAGED RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON EXISTING L-867 BASE CAN	EA	1
73	L-125-5.15	NEW L-853 RETROREFLECTIVE TAXIWAY EDGE REFLECTOR - BLUE, STAKE MOUNTED	EA	3
74	L-125-5.16	NEW L-861T(L) LED TAXIWAY EDGE LIGHT W/ STEMS, FRANGIBLE COUPLINGS AND ISOLATION TRANSFORMERS (SPARES)	EA	3

SHEET INDEX

SHEET NO.	SHEET REF. NO.	SHEET DESCRIPTION
01	GI-001	COVER SHEET
02	GI-002	QUANTITY SUMMARY AND SHEET INDEX
03	GI-003	GENERAL NOTES
04	GI-004	LEGEND AND ABBREVIATIONS
05	GI-401	PROJECT LAYOUT PLAN
06 - 07	GI-701 - GI-702	ALIGNMENT PLAN
08	VF-401	SURVEY CONTROL PLAN
09 - 12	CD-101 - CD-104	CIVIL DEMOLITION PLANS
13 - 16	CS-101 - CS-104	GEOMETRIC LAYOUT PLANS
17	CS-301	TYPICAL SECTIONS
18 - 21	CX-101 - CX-104	PAVEMENT STAKING PLANS
22 - 25	CG-101 - CG-104	GRADING & DRAINAGE PLANS
26 - 27	CP-101 - CP-102	TAXIWAY CONNECTORS PLAN & PROFILE
28 - 29	CU-501 - CU-502	GRADING & DRAINAGE DETAILS
30 - 33	CT-101 - CT-104	AIRFIELD MARKING PLANS
34	CT-501	AIRFIELD MARKING DETAILS
35	EA-001	ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX
36	EA-002	ELECTRICAL NOTES
37 - 40	ED-101 - ED-104	AIRFIELD ELECTRICAL DEMOLITION PLANS
41 - 44	EA-101 - EA-104	AIRFIELD LIGHTING AND ELECTRICAL PLANS
45 - 53	EA-501 - EA-509	ELECTRICAL DETAILS
54	EA-601	AIRFIELD GUIDANCE SIGN SCHEDULE
55 - 56	EA-602 - EA-603	EQUIPMENT DATA TABLES

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PRIME CONSULTANT
TRACE CONSULTING
1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034
SUB CONSULTANT

Registered Professional Engineer
43620
CINTAN S. JHAVERI
Date Signed 06/28/24
ARIZONA, U.S.A.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

QUANTITY SUMMARY AND SHEET INDEX

SHEET REFERENCE NUMBER:
GI-002

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-GI-002-GMP1.dwg - Jun 14,2024 4:55pm

GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.

2. CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION'S (FAA) STANDARDS AND SPECIFICATIONS, ADOT STANDARDS AND SPECIFICATIONS, CITY OF PHOENIX (COP) SUPPLEMENTARY CONDITIONS, COP SUPPLEMENTS, 2020 MAG UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS. IN THE EVENT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS FOR THIS PROJECT AND THE STANDARDS, THE CONTRACT DOCUMENTS FOR THIS PROJECT SHALL PREVAIL.

   CALCULATED DIMENSIONS WILL GOVERN OVER SCALED DIMENSIONS.

3. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY, AND STATE TRAFFIC REGULATIONS CONCERNING THE USE OF STREETS AND ROADWAYS FOR HAULING. ANY DAMAGE DONE TO THE ROADWAYS DUE TO THE CONTRACTOR'S EQUIPMENT OR HAULING OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.

4. THESE PLANS SHOW ITEMS TO BE CONSTRUCTED UNDER THIS CONTRACT. ACTUAL FIELD CONDITIONS, GRADES, LOCATIONS AND OTHER FEATURES MAY DIFFER FROM CONDITIONS INDICATED IN THESE DOCUMENTS.

5. HAUL ROUTES – THE LOCATION OF HAUL ROUTES ON THE AIRPORT SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE COP AVIATION DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF–SITE HAUL ROUTES WITH THE PARTY HAVING JURISDICTION OVER THE AFFECTED ROUTE. ON–SITE HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. TAXIWAY AND RUNWAY PAVEMENT CROSSINGS ALONG HAUL ROUTES SHALL BE PROTECTED. FENCING, DRAINAGE, GRADING OR OTHER WORK NECESSARY TO CONSTRUCT HAUL ROUTES ON THE AIRPORT IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER AND AIRPORT PRIOR TO THE WORK. EXCESS SOILS PLACEMENT – EXCESS SOILS, EXCESS MILLED ASPHALT CONCRETE, CONCRETE, RUBBLE, AND UNSUITABLE EXCAVATION SHALL BE DISPOSED OF OFF–SITE ACCORDING TO LOCAL LAWS AND REGULATIONS. MILLED ASPHALT CONCRETE MAY BE PLACED IN THE LOCATIONS APPROVED BY THE AIRPORT.

   COSTS ASSOCIATED WITH THE MATERIALS AND TASKS ABOVE ARE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE COP AVIATION DEPARTMENT INDICATING THE LOCATION AND QUANTITY OF ALL MATERIAL DISPOSED OF OFF AIRPORT PROPERTY.

   ANY REMOVAL ITEMS OF VALUE ARE TO REMAIN THE PROPERTY OF THE COP UNLESS OTHERWISE INDICATED. ALL MATERIAL TO BE HAULED OFF–SITE SHALL BE SAMPLED PRIOR TO HAUL OFF. CONTRACTOR TO COORDINATE WITH COP AVIATION PLANNING AND ENVIRONMENTAL PRIOR TO START OF CONSTRUCTION.

6. SALVAGED ITEMS – ANY SALVAGED ITEMS ARE TO REMAIN THE PROPERTY OF AIRPORT.

7. NO MATERIAL SHALL BE WASTED OR STOCKPILED ON THE AIRPORT UNLESS APPROVED BY THE ENGINEER AND AIRPORT. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OPERATIONS OR WIND AND IN ACCORDANCE WITH FAA ADVISORY CIRCULARS.

8. CONTRACTOR–GENERATED DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE MOVEMENT AREAS. MATERIAL DROPPING WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY AND CONTINUOUSLY BY THE CONTRACTOR DURING WORKING HOURS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL COP PROPERTY AND SHALL LOCATE AND PROTECT CAREFULLY FROM DAMAGE OR DISTURBANCE 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 SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REBUILDING OR RESTORING AS DIRECTED BY THE COP AVIATION DEPARTMENT AND THE ENGINEER.

10. THE CONTRACTOR IS ADVISED THAT OTHER CONSTRUCTION WILL BE IN PROGRESS DURING ALL OR PART OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS AT THE AIRPORT.

11. EXISTING AIRPORT SURVEY MONUMENTS ARE LOCATED THROUGHOUT THE CONSTRUCTION AREA. THE CONTRACTOR SHALL AT HIS EXPENSE, HAVE A REGISTERED LAND SURVEYOR REPLACE ANY DISTURBED MONUMENT USING CITY OF PHOENIX STANDARDS. REPLACED MONUMENTS SHALL BE PLACED AT LEAST 10' BUT NOT MORE THAN 50' FROM THE ORIGINAL MONUMENT.

12. SAFETY AND SECURITY – SAFETY AND SECURITY IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE COORDINATED WITH AIRPORT OPERATIONS, COP AVIATION DEPARTMENT AND THE ENGINEER. SEE SPECIAL CONDITIONS FOR SAFETY, SECURITY, BADGE AND OPERATING REQUIREMENTS IN THE CSPP.

13. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE CONSTRUCTION LIMITS, STAGING AREA OR DESIGNATED HAUL ROUTES WITHOUT THE WRITTEN APPROVAL BY THE ENGINEER AND AIRPORT.

14. THE CONTRACTOR SHALL NOTIFY THE COP AVIATION DEPARTMENT IN WRITING, THROUGH THE ENGINEER, A MINIMUM OF SEVENTY–TWO (72) HOURS IN ADVANCE TO OBTAIN CLEARANCE FOR WORK. THE CONTRACTOR SHALL SUBMIT A CPM SCHEDULE FOR APPROVAL AT THE PRE–CONSTRUCTION CONFERENCE.

15. THE OWNER RESERVES THE RIGHT TO MAKE REVISIONS TO THE FINISHED ELEVATIONS AND GRADIENTS. IF CHANGES ARE NECESSARY, THE OWNER WILL FURNISH A REVISED GRADING OR PAVING PLAN. UNIT PRICES SHALL GOVERN FOR REVISED QUANTITIES.

16. SPECIFICATIONS ARE PROVIDED WHICH REQUIRE THE CONTRACTOR TO APPLY WATER, CHEMICALS, VEGETATION OR OTHER MATERIALS TO PREVENT THE OCCURRENCE OF DUST WHICH IS OBJECTIONABLE TO THE OPERATIONS OR USERS OF THE AREA. THESE SHALL INCLUDE BUT NOT BE LIMITED TO AIRPORT AUTHORITY OPERATIONS, MAINTENANCE, AIRCRAFT OPERATIONS, AND AIRFIELD OPERATIONS, AND LAND SIDE OPERATIONS. THE CONTRACTOR SHALL ALSO DISCONTINUE OPERATIONS, WHICH VIOLATE EXISTING LAWS AND REGULATIONS OR CREATE A UNIQUE HAZARD TO AIR TRAFFIC. ALL COST FOR CONTROLLING DUST OR POLLUTANTS TO THE AIR OF ANY KIND SHALL BE INCIDENTAL TO THE CONTRACT.

17. EXISTING UTILITY INFORMATION, LIGHTING DUCTS, AND CABLES SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE BEST AVAILABLE UTILITY RECORDS TO THE ENGINEER AND AIRPORT, AND ARE APPROXIMATE. 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. THE OWNER AND ENGINEER BEAR NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. ANY AND ALL DAMAGE TO EXISTING UTILITIES SHALL BE COVERED AT THE CONTRACTOR'S EXPENSE. EXCAVATION IMMEDIATELY NEAR UTILITIES SHALL BE DONE BY HAND. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITY COMPANIES AT LEAST SEVENTY–TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION:

18.

ARIZONA PUBLIC SERVICE	(602) 371–6451	CONTACT: DON CROWDER
FAA FACILITIES	(602) 305–2532	CONTACT: ROGER GUSTAFSON
CENTURY LINK	(602) 530–0496	CONTACT: JOHN O'DELL
GAS (SW GAS)	(602) 484–5344	CONTACT: NORMA JARDIN
CITY WATER/SEWER	(602) 261–8229	CONTACT: JAMI ERICKSON
COP ENVIRONMENTAL	(602) 273–3396	CONTACT: REBECCA GODLEY
ALL EMERGENCY, FIRE, POLICE, MEDICAL,	911	
NON–EMERGENCY	(623) 869–0977	CONTACT: OPERATOR
COP ELECTRICAL	(602) 273–7667	CONTACT: DAVID THORNTON
COP COMMUNICATIONS	(602) 708–0244	CONTACT: CHAD BLOTKAMP
COP UTILITIES	(602) 708–0244	CONTACT: CHAD BLOTKAMP

19. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY OWNERS AND THE PROGRAM MANAGER TO LOCATE ALL EXISTING AND PROPOSED UTILITIES PRIOR TO PERFORMING TRENCHING, MASS EXCAVATION, OR OTHER EARTHWORK.

20. SEVERAL UTILITY OWNERS INCLUDING THE COP AVIATION DEPARTMENT, SOLID WASTE MANAGEMENT DEPARTMENT, HUMAN SERVICES DEPARTMENT, FEDERAL AVIATION ADMINISTRATION, AND OTHERS ARE NOT MEMBERS OF THE BLUE STAKE CENTER NOTIFICATION SYSTEM AND MUST BE NOTIFIED INDIVIDUALLY. CONTRACTOR TO USE A THIRD PARTY UTILITY LOCATOR.

21. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND ELECTRICAL SYSTEMS TO REMAIN PRIOR TO COMMENCING ANY DRAINAGE EXCAVATION.

22. POWER, CONTROL CABLES AND FIXTURES FOR AIRFIELD LIGHTING AND NAVIGATIONAL AIDS ARE LOCATED IN THE CONSTRUCTION AREAS. THE CONTRACTOR'S PERSONNEL SHALL BECOME FAMILIAR WITH THESE CABLE AND FIXTURE LOCATIONS AND KEEP VEHICLES AND EQUIPMENT CLEAR OF THEM AT ALL TIMES. ADHERENCE TO AVIATION LOCKOUT/TAGOUT PROCEDURES SHALL BE STRICTLY ENFORCED.

23. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT ITS OWN EXPENSE.

24. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE HYDRANTS AT ALL TIMES.

25. THE CONTRACTOR SHALL NOT DRAW WATER FROM ANY FIRE HYDRANT FOR USE ON THE WORK WITHOUT FIRST OBTAINING A WRITTEN PERMIT FROM THE CONTROLLING FIRE DEPARTMENT.

26. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE COP AVIATION DEPARTMENT ON THE PRECISE LOCATION AND LIMITS OF THE STAGING AREA, AS WELL AS ANY SPECIAL REQUIREMENTS FOR FENCING, SECURITY OR ACCESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL UTILITIES AND HOOKUPS NECESSARY FOR THE CONTRACTOR'S USE AND FOR ALL PROJECT FIELD OFFICES AS REQUIRED IN THE SPECIAL PROVISIONS.

27. THE EXACT LIMITS, LIGHTING, AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER AND AIRPORT IN THE AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR AND PAID DIRECTLY TO THE APPROPRIATE UTILITY. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND AIRPORT. THE CONTRACTOR SHALL USE THE STORAGE AND STAGING AREAS SHOWN ON THE PLANS FOR HIS/HER SHOP, MATERIAL AND EQUIPMENT STORAGE AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING EMPLOYEE PARKING. ALL COSTS ASSOCIATED WITH PREPARING THE STORAGE AND STAGING AREA SITE SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO CLEARING AND GRADING OF THE SITE, CONSTRUCTION OF ALL TEMPORARY UTILITIES, ACCESS ROADS, ALL SECURITY FENCING, CLEAN–UP AND RESTORATION OF SITE TO ORIGINAL CONDITION.

28. THE CONTRACTOR SHALL SUBMIT A DRAWING SHOWING THE PROPOSED SITE LAYOUT OF ANY BATCH PLANTS. THE PLAN SHALL BE APPROVED BY THE ENGINEER AND AIRPORT PRIOR TO STARTING ANY WORK AT THE CONTRACTOR'S STAGING AREA.

29. THE CONTRACTOR SHALL INVESTIGATE THE AVAILABILITY OF AN ADEQUATE SUPPLY OF SUITABLE WATER, MAKE ALL ARRANGEMENTS (PERMITS) FOR THE PURCHASE OF THE WATER, AND PROVIDE NECESSARY FACILITIES TO FURNISH WATER FOR USE DURING CONSTRUCTION, SOLELY AT HIS EXPENSE.

30. BATCH PLANT SITES AND OTHER AREAS USED DURING CONSTRUCTION ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT NO COST TO THE OWNER.

31. THE CONTRACTOR SHALL COMPLETE CLEAN UP AND RESTORATION OF ENTIRE PROJECT AREA, INCLUDING STAGING AND STORAGE AREAS, AS APPROVED BY THE ENGINEER AND AIRPORT WITHIN 10 DAYS OF CONTRACT COMPLETION DATE.

32. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ELECTRICAL TIE–OVERS THAT WILL BE REQUIRED TO KEEP AIRFIELD LIGHTS AND SIGNS IN OPERATION AT ALL TIMES WHEN THE PAVEMENT AREAS ARE AVAILABLE TO AIRCRAFT TRAFFIC.

33. THE CONTRACTOR SHALL CONDUCT THE FINAL CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING THE PAVEMENTS TO AIR TRAFFIC. CONTRACTOR TO PROTECT ALL EXISTING UTILITY VAULTS AND LIDS DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ALL VAULT LIDS ARE OPERATIONAL FOLLOWING COMPLETION OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS DAILY CLEAN UP OF HIS/HER WORK AREA. THE CONTRACTOR SHALL CONDUCT POWER VACUUM CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING EACH PHASE OF THE PAVEMENTS TO AIR TRAFFIC, AND FOR ACTIVE TAXIWAYS AND RUNWAYS IMMEDIATELY FOLLOWING ANY ACCESS ONTO OR CROSSING OF THE PAVEMENT BY CONSTRUCTION TRAFFIC.

34. THE CONTRACTOR IS REQUIRED TO PROVIDE LIGHTING FOR CONSTRUCTION DURING THE HOURS OF DARKNESS AS REQUIRED TO PERFORM CONSTRUCTION AND RELATED ACTIVITIES. COSTS FOR LIGHTING SHALL BE INCIDENTAL TO THE CONTRACT.

35. THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE THIS PROJECT IS IN PROGRESS. THE CONTRACTOR'S SUPERINTENDENT SHALL BE THE DESIGNATED RESPONSIBLE CONTRACTOR REPRESENTATIVE AND SHALL BE AVAILABLE IN CASE OF EMERGENCIES ON A 24–HOUR DAILY BASIS.

36. MOST CONSTRUCTION WORK IN THIS PROJECT WILL OCCUR WITHIN THE AIR OPERATIONS AREA (AOA) AND IS SUBJECT TO OPERATIONAL SAFETY AND SECURITY REQUIREMENTS OF THE COP AND FAA. ANY ADDITIONAL REQUIREMENTS AS MAY BE DEEMED NECESSARY BY THE COP OR THE FAA WILL BE COMPLIED WITH BY THE CONTRACTOR AT NO COST TO THE OWNER.

37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING EMPLOYEES TO AND FROM THE PROJECT SITE IF NECESSARY.

38. ROADS USED AS CONTRACTOR ROUTES MAY BE USED BY OTHER AIRPORT VEHICLES. THE CONTRACTOR SHALL NOT INTERFERE WITH OTHER VEHICLE TRAFFIC AND SHALL YIELD TO EMERGENCY VEHICLES ALONG ANY OF THE AIRPORT OR PUBLIC ROADS.

39. EACH CONTRACTOR/SUBCONTRACTOR, INCLUDING EACH CONTRACTOR/SUBCONTRACTOR EMPLOYEE, WHO OPERATES A GROUND VEHICLE ON ANY PORTION OF THE AOA AT THE AIRPORT MUST BE FAMILIAR WITH:

   - DVT RULES AND REGULATIONS.
   - DVT PROCEDURES FOR THE OPERATION OF GROUND VEHICLES.
   - FAILURE TO COMPLY WITH DVT RULES AND REGULATIONS AND/OR PROCEDURES FOR THE OPERATION OF GROUND VEHICLES, WILL REQUIRE THE PERSON TO ATTEND A MOVEMENT AREA OPERATING PROCEDURES CLASS

39. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, CONSTRUCTION EQUIPMENT (IE. ROLLERS. BACKHOES, SCRAPERS, ETC.) THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1' SQUARE, WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLES SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO SUPPLIED.

40. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR EACH WORKSHIFT UNLESS TRAVELING TO OR FROM THE SITE. ALL VEHICLES AND EQUIPMENT SHALL BE PARKED IN STAGING AREAS AS APPROVED BY THE ENGINEER AND AIRPORT.

41. CONTRACTOR SHALL PROVIDE TRAINED FLAGMEN TO COORDINATE AND CONTROL CONSTRUCTION TRAFFIC WHEN OPERATING ACROSS ANY ACTIVE TAXIWAY. FLAGMEN SHALL BE EQUIPPED WITH RADIOS ON GROUND CONTROL FREQUENCY AND SHALL ALLOW TRAFFIC CROSSINGS ON ACTIVE TAXIWAYS AND RUNWAYS ONLY UPON SPECIFIC AUTHORIZATION BY AIR TRAFFIC CONTROL. FLAGMEN SHALL ALSO BE PROVIDED FOR CONTROLLING EQUIPMENT ENTERING AND LEAVING THE PROJECT AREA.

42. THE CONTRACTOR SHALL AT NO TIME CROSS AN ACTIVE RUNWAY OR TAXIWAY UNLESS ESCORTED BY A COP RADIO ESCORT. VIOLATION COULD RESULT IN PERMANENT EJECTION FROM THE AIRPORT PROPERTY AND/OR THE ASSESSMENT OF FINES.

43. CONTRACTOR ACCESS GATE SHALL BE MANNED BY A CONTRACTOR SUPPLIED GATE GUARD OR REMAIN LOCKED AT ALL TIMES (WHEN NOT OCCUPIED). APPROVED GATE GUARD SHALL CONTROL ACCESS TO ALLOW ONLY AUTHORIZED CONSTRUCTION TRAFFIC TO ENTER THE SITE.

44. CONSTRUCTION EQUIPMENT SHALL NOT PENETRATE THE HEIGHT RESTRICTIONS FOR FAR PART 77.

45. ALL SURFACE RUNOFF FROM THE STAGING AREA OR THE AREAS UNDER CONSTRUCTION SHALL BE COLLECTED AND ADEQUATELY FILTERED BEFORE DISCHARGE INTO THE EXISTING DRAINAGE SYSTEM. CONTRACTOR SHALL MITIGATE THE IMPACTS OF RUNOFF FROM THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS.

46. NO ADJUSTMENT FOR ADDITIONAL COMPENSATION AND TIME WILL BE MADE FOR TIME LOST IN WORK AREAS CONTIGUOUS TO TAXIWAYS AND RUNWAYS DUE TO AIRCRAFT TRAFFIC.

47. CONTRACTOR SHALL NOTE IN THE RECORD DRAWINGS ANY AND ALL PIPES, DUCTS AND CABLES FOUND DURING EXCAVATION. INDICATE EXACT POSITION, ELEVATION, DIRECTION, SIZE, MATERIAL, PURPOSE AND ACTIVE STATUS, IF KNOWN.

48. ANY PAINT USED FOR NEW PAVEMENT MARKINGS SHALL BE LEAD FREE CERTIFIED. CONTRACTOR TO PROVIDE SAFETY DATA SHEET TO THE AIRPORT FOR APPROVAL PRIOR TO CONSTRUCTION.

49. BEFORE ANY WORK COMMENCES, AN ASBESTOS AND LEAD SURVEY NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT CITY OF PHOENIX AVIATION DEPARTMENT PROJECT MANAGER APPROXIMATELY 3–4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE ASBESTOS AND LEAD SURVEY DONE. ANY ENVIRONMENTAL HAZARDS FOUND DURING THIS SURVEY SHALL BE ABATED PRIOR TO ANY DISTURBANCE. CONTRACTOR TO ALSO NOTIFY CITY OF PHOENIX AVIATION DEPARTMENT PROJECT MANAGER FOR ANY SUBSURFACE MATERIALS FOUND DURING CONSTRUCTION. CONTRACTOR SHALL ASSUME ALL SUSPECT MATERIALS CONTAIN ASBESTOS (ANYTHING OTHER THAN UNPAINTED WOOD, METAL, OR GLASS) UNLESS OTHERWISE NOTIFIED.

50. IF SOIL IS TO BE REMOVED FROM THE AIRPORT, THEN PRIOR TO ANY WORK COMMENCING, SOIL SAMPLING NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT CITY OF PHOENIX AVIATION DEPARTMENT PROJECT MANAGER APPROXIMATELY 3–4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE SOIL SAMPLING COMPLETED. THE SOIL SHALL BE SAMPLED BY COP ENVIRONMENTAL ON–CALL CONSULTANTS WITH ASSISTANCE FROM THE CONTRACTOR. CONTRACTOR SHALL PROVIDE BARRICADES, COMMUNICATE WITH OPERATIONS AND REPLACE THE CORED AREA AFTER SAMPLING IS COMPLETE PER AIRPORT SPECIFICATIONS.

51. THE PROJECT WILL DISTURB MORE THAN 1/10 OF AN ACRE. THE CONTRACTOR SHALL OBTAIN A MARICOPA COUNTY DUST CONTROL PERMIT PRIOR TO CONSTRUCTION.

52. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION GENERAL PERMIT FROM ADEQ AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE SUBMITTED TO COP AIRPORT ENVIRONMENTAL FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.

53. ANY WASTE OR CONSTRUCTION DEBRIS MUST BE DISPOSED OF PROPERLY. THE DISPOSAL OF MATERIAL OFF–SITE SHALL BE DONE IN A LAWFUL MANNER AND AT A SITE HAVING CURRENT APPROVAL TO ACCEPT SOLID WASTE FOR DISPOSAL.

54. CONTRACTOR TO OBTAIN PERMIT FROM THE WATER DEPARTMENT TO ACCESS STORM DRAINS, STORM DRAIN MANHOLES, AND SANITARY SEWER MANHOLES IF REQUIRED.

55. SERVICE ROAD ACCESS SHALL BE MAINTAINED AT ALL TIMES. ALIGNMENT FOR SERVICE ROAD DETOURS SHALL BE APPROVED BY AIRPORT OPERATIONS AND SECURITY.

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SUB CONSULTANT

Registered Professional Engineer — 43620 — CHINTAN S. JHAVERI — Date Signed 06/28/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE: GENERAL NOTES

SHEET REFERENCE NUMBER: GI-003

SHEET 3 OF 56

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LEGEND

DESCRIPTION	EXISTING	PROPOSED
CONCRETE SIGN BASE		
TAXIWAY EDGE LIGHT		
ELECTRICAL CAN COVER		
RUNWAY GUARD LIGHT		
SANITARY SEWER AND MANHOLE	S SS$_X$	S SS
STORM DRAIN, MANHOLE & INLET	SD	
RUNWAY/TAXIWAY CENTERLINE		
CHAIN LINK FENCE	X	X
MAJOR CONTOUR LINES	1125	1125
MINOR CONTOUR LINES		
FIBER OPTIC	FO	FO
GRADE BREAK		
FLOW LINE		
APS MANHOLE		APS
MONITORING WELL	MW	MW
WATER LINE	W$_X$	W
COMMUNICATION	CU$_X$	CU
GAS LINE	G$_X$	G
FAA		
ELECTRICAL	EU$_X$	EU
RUNWAY SAFETY AREA	RSA	RSA
TAXIWAY SAFETY AREA	TSA	TSA
RUNWAY PROTECTION ZONE		RPZ
TAXIWAY OBJECT FREE AREA		TOFA
RUNWAY OBJECT FREE AREA		ROFA
RUNWAY OBSTACLE FREE ZONE		ROFZ
PROTECT IN PLACE NOTE		1
ADJUSTMENT OR REMOVAL NOTE		1
CONSTRUCTION NOTE		1
SWPPP NOTE		1
PAVEMENT MARKING NOTE		1
SPOT ELEVATION	• (XX.XX)±	• XX.XX
SAWCUT FULL DEPTH		S
RUNWAY THRESHOLD LIGHT		
RUNWAY EDGE LIGHT		
FLUSH RUNWAY/TAXIWAY LIGHT		
RUNWAY END IDENTIFIER LIGHT		
SIGN		
LIGHT		
DUCT MARKER		
WIND SOCK		

ABBREVIATIONS

ABBREVIATIONS	DEFINITIONS
#	REBAR SIZE NUMBER
@	AT
7L/25R	RUNWAY DESIGNATION
ABC	AGGREGATE BASE COURSE
AC	ASPHALTIC CONCRETE
ADEQ	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
ADG	AIRPLANE DESIGN GROUP
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
ARFF	AIRCRAFT RESCUE AND FIRE FIGHTING
AIP	AIRPORT IMPROVEMENT PROGRAM
ALT	ALTERNATE
AOA	AIR OPERATIONS AREA
APPROX	APPROXIMATE
APS	ARIZONA PUBLIC SERVICE
ATCT	AIR TRAFFIC CONTROL TOWER
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BC	BEGIN CURVE
BOT	BOTTOM
BVC	BEGIN VERTICAL CURB
CL OR ℄	CENTER LINE
C TO C	CENTER TO CENTER
CFS	CUBIC FEET PER SECOND
C.I.	CONTOUR INTERVAL
CMP	CORRUGATED METAL PIPE
COP	CITY OF PHOENIX
CPM	CRITICAL PATH METHOD
CTB	CEMENT TREATED BASE
CONC	CONCRETE
CONST	CONSTRUCTION
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CPM	CRITICAL PATH METHOD
CF OR CU FT	CUBIC FEET
CY	CUBIC YARDS
CZ	CLEAR ZONE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
D_{50}	DIAMETER OF 50% ROCK SIZE
DVT	DEER VALLEY AIRPORT
E	EAST OR EASTING
EA	EACH
ELEC	ELEC/ELECTRICAL
EL OR ELEV	ELEVATION
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EX OR EXST	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FIN	FINISHED
FL OR ℄	FLOW LINE
FT	FOOT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HP	HIGH POINT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
ILS	INSTRUMENT LANDING SYSTEM
JB	JUNCTION BOX
KV	KILOVOLT
L	LENGTH OR LEFT
LBS	POUNDS
LF	LINEAL FOOT
LS	LUMP SUM
LT	LEFT
LTB	LIME TREATED BASE

ABBREVIATIONS

ABBREVIATIONS	DEFINITIONS
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
N	NORTH OR NORTHING
NAVD	NORTH AMERICAN VERTICAL DATUM
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NOTAM	NOTICE TO AIRMAN
NO.	NUMBER
N.O.I.	NOTICE OF INTENT
N.O.T.	NOTICE OF TERMINATION
NPI	NON-PAY-ITEM
NTS	NOT TO SCALE
N/A	NON APPLICABLE
PVI	POINT OF VERTICAL INTERSECTION
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
PETRO	PETROLEUM
PI	POINT OF INTERSECTION
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
REIL	RUNWAY END IDENTIFIER LIGHT
REINF	REINFORCING
RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
ROFA	RUNWAY OBJECT FREE AREA
ROFZ	RUNWAY OBSTACLE FREE ZONE
ROW	RIGHT-OF-WAY
RPZ	RUNWAY PROTECTION ZONE
RSA	RUNWAY SAFETY AREA
RT	RIGHT
RWY	RUNWAY
S	SOUTH OR SLOPE
SAL	SAFETY AREA LIMITS
SCHD	SCHEDULE
SD	STANDARD DETAIL OR STORM DRAIN
SECT	SECTION
SF	SQUARE FEET OR SEMI-FLUSH
SHT	SHEET
SIDA	SECURITY IDENTIFICATION DISPLAY AREA
SPECS	SPECIFICATIONS
STA	STATION
STD	STANDARD
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SY	SQUARE YARDS
T	TANGENT LENGTH
TBM	TEMPORARY BENCHMARK
TOFA	TAXIWAY OBJECT FREE AREA
TSA	TAXIWAY SAFETY AREA
TWY	TAXIWAY
TYP	TYPICAL
UG	UNDERGROUND
V OR VERT	VERTICAL
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
W	WEST OR WATER
w	WATT
WT	WEIGHT

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ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

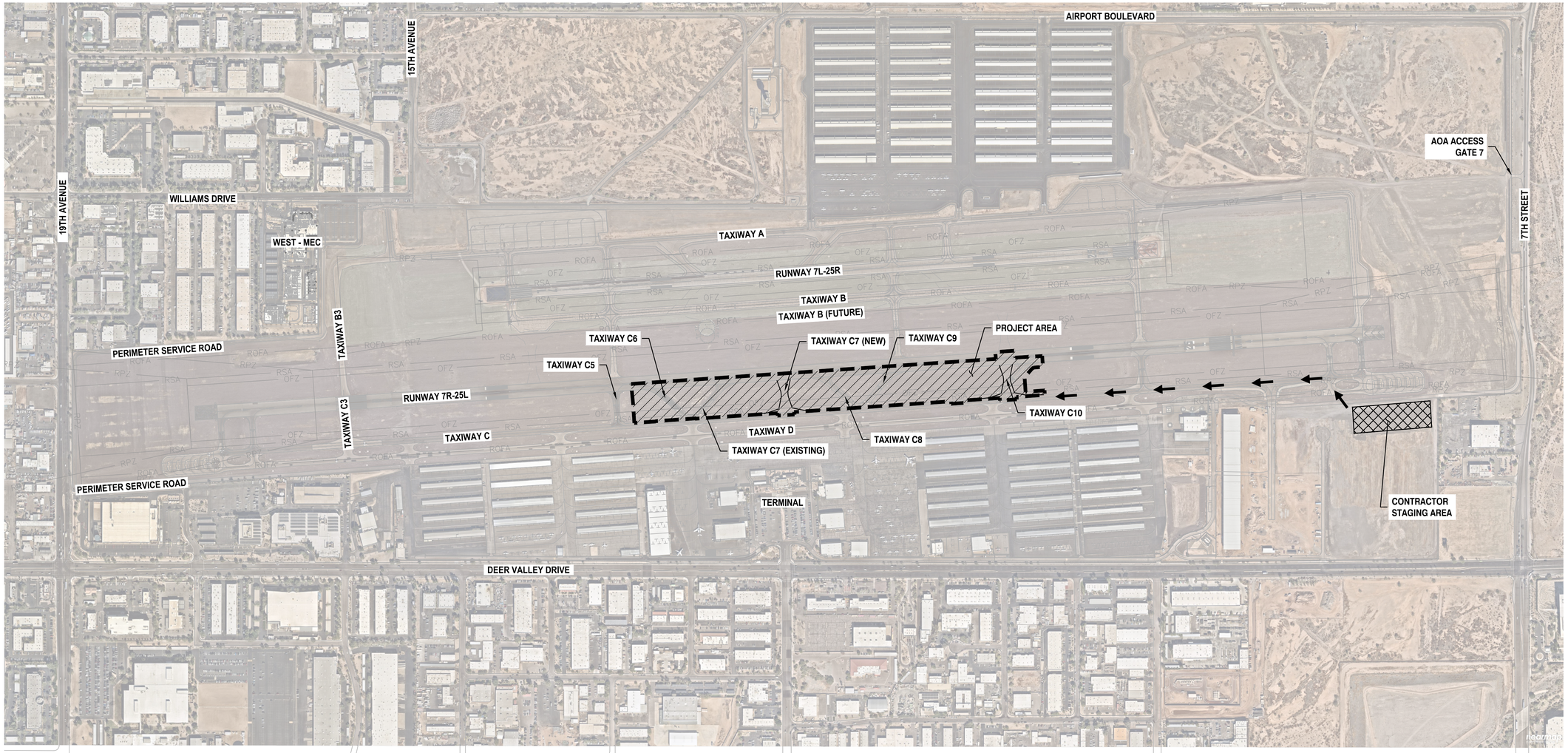
SHEET OVERVIEW TITLE

LEGEND AND ABBREVIATIONS

SHEET REFERENCE NUMBER:
GI-004

SHEET 04 OF 56

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LEGEND

- CONTRACTOR HAUL ROUTE
- CONTRACTOR STAGING/STOCKPILE AREA
- PROJECT AREA

NOTES:

1. AREAS SHOWN ARE INTENDED TO BE AN APPROXIMATE GEOGRAPHICAL REPRESENTATION.
2. THE CONTRACTOR SHALL COORDINATE THE LIMITS OF THE STAGING AND STOCKPILE AREA, THE LIMITS OF THE EMPLOYEE PARKING AND TEMPORARY FENCING WITH DVT PRIOR TO CONSTRUCTION.
3. CONTRACTOR CAN ACCESS THE SITE USING AOA ACCESS GATE 7 ON 7TH STREET. CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM AIRPORT OPERATIONS REGARDING USE OF ANY GATE. AIRPORT OPERATIONS MAY ALLOW ACCESS FROM OTHER GATES, BASED ON AVAILABILITY OF SECURITY STAFF.
4. CONTRACTOR TO ENSURE THAT NO CONSTRUCTION TRAFFIC ENTERING SITE BACKS UP ON OR BLOCKS ANY PUBLIC STREET.
5. ANY EXISTING PAVEMENT AREA ALONG ANY HAUL ROUTE SHALL BE ADEQUATELY PLATED PER TECHNICAL SPECIAL PROVISION SPECIFICATION ITEM 41 AIRPORT SAFETY AND SECURITY (M-003) PRIOR TO ANY HAULING ACTIVITIES.

N

0 400' 800'

SCALE:1"=400'

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AV31000096 ADOT

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Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

PROJECT LAYOUT PLAN

SHEET REFERENCE NUMBER:
GI-401

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-GI-401-GMP1.dwg — Jun 14,2024 11:48am

RUNWAY 7L-25R

TAXIWAY B4

TAXIWAY B5

TAXIWAY B6 (FUTURE)

TAXIWAY B (EXISTING)

TAXIWAY B (FUTURE)

TAXIWAY B4 (FUTURE)

TAXIWAY B5 (EXISTING)

FUTURE TW B IMPROVEMENTS TO BE PERFORMED UNDER CONTRACT AV3100092

EXISTING TW B5 SOUTH TO BE DEMOLISHED UNDER CONTRACT AV3100092

EXISTING SEGMENTED CIRCLE

FUTURE SEGMENTED CIRCLE

RUNWAY 7R-25L

RUNWAY 7R-25L
STA 1+00.00
N: 977630.82
E: 645377.47

STA 24+64.86 RWY 7R-25L =
STA 98+00.15 TWY B4

STA 24+64.85 RWY 7R-25L =
STA 405+00.00 TWY C4

STA 32+50.00 RWY 7R-25L =
STA 505+00.00 TWY C5

STA 36+50.00 RWY 7R-25L =
STA 605+00.00 TWY C6

STA 42+46.11 RWY 7R-25L =
STA 705+00.00 TWY C7

TAXIWAY C1 (EXISTING)

TAXIWAY C4 (FUTURE)

TAXIWAY C5 (EXISTING)

TAXIWAY C5 (FUTURE)

TAXIWAY C6 (EXISTING)

TAXIWAY C7 (EXISTING)

TAXIWAY C6 (FUTURE)

TAXIWAY C7 (NEW)

300'

STA 229+50.00 TWY C =
STA 500+75.74 TWY C5

STA 239+50.00 TWY C =
STA 609+24.26 TWY C6

TAXIWAY C

TAXIWAY C
STA 201+00.00
N: 977331.52
E: 645397.87

STA 224+64.86 TWY C =
STA 402+00.00 TWY C4

STA 242+46.11 TWY C =
STA 701+99.86 TWY C7

TAXIWAY D

RAMP 2

RAMP 3

MATCHLINE SEE SHEET GI-702

RSA ROFA TSA

1+00 103+00 100+00 201+00 401+00 25+00 30+00 505+00 35+00 605+00 40+00 706+00 705+00 225+00 230+00 500+76 235+00 609+24 240+00 701+00

KEY MAP

N

0 100' 200'

SCALE:1"=100'

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CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

ALIGNMENT PLAN

SHEET REFERENCE NUMBER:
GI-701

SHEET 06 OF 56

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RUNWAY 7L-25R

TAXIWAY B (EXISTING)

TAXIWAY B (FUTURE)

FUTURE TW B IMPROVEMENTS TO BE PERFORMED UNDER CONTRACT AV3100092

TAXIWAY B8 (FUTURE)
TAXIWAY B9 (EXISTING)

TAXIWAY B9 (FUTURE)

EXISTING TW B9 SOUTH TO BE DEMOLISHED UNDER CONTRACT AV3100092

TAXIWAY B9 (EXISTING)

TAXIWAY B10 (FUTURE)

1010+00

STA 50+74.46 RWY 7R-25L =
STA 805+00.00 TWY C8

STA 58+37.25 RWY 7R-25L =
STA 1005+00.00 TWY C10

45+00 RUNWAY 7R-25L 50+00 805+00 905+00 55+00 1005+00 60+00

STA 52+08.82 RWY 7R-25L =
STA 905+00.00 TWY C9

MATCHLINE SEE SHEET GI-701

300'

TAXIWAY C8 (EXISTING)

TAXIWAY C9 (FUTURE)
TAXIWAY C9 (EXISTING)

TAXIWAY C9 (FUTURE)

TAXIWAY C10 (NEW)

TAXIWAY C10 (EXISTING)

STA 255+08.82 TWY C =
STA 909+24.26 TWY C9

245+00 TAXIWAY C 800+76 250+00 909+24 255+00 260+00

STA 247+74.46 TWY C =
STA 800+75.74 TWY C8

STA 258+37.25 TWY C =
STA 1002+00.00 TWY C10

1001+00

TAXIWAY D

RAMP 4

RAMP 5

TAXIWAY A13

85+00

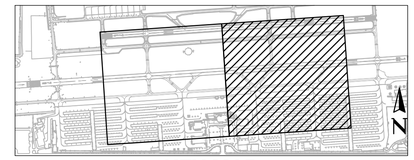
RUNWAY 7R-25L
STA 85+00.00
N: 978202.07
E: 653758.02

TAXIWAY C13 (EXISTING)

285+00

TAXIWAY C
STA 285+00.00
N: 977902.77
E: 653778.42

RSA TSA ROFA



KEY MAP

N

0 100' 200'

SCALE:1"=100'

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PRIME CONSULTANT
TRACE CONSULTING
1201 E. Jefferson St. | Suite 31 | Phoenix, AZ 85034

SUB CONSULTANT

Registered Professional Engineer
43620
CHINTAN S. JHAVERI
Date Signed 06/14/24
ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV3100096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

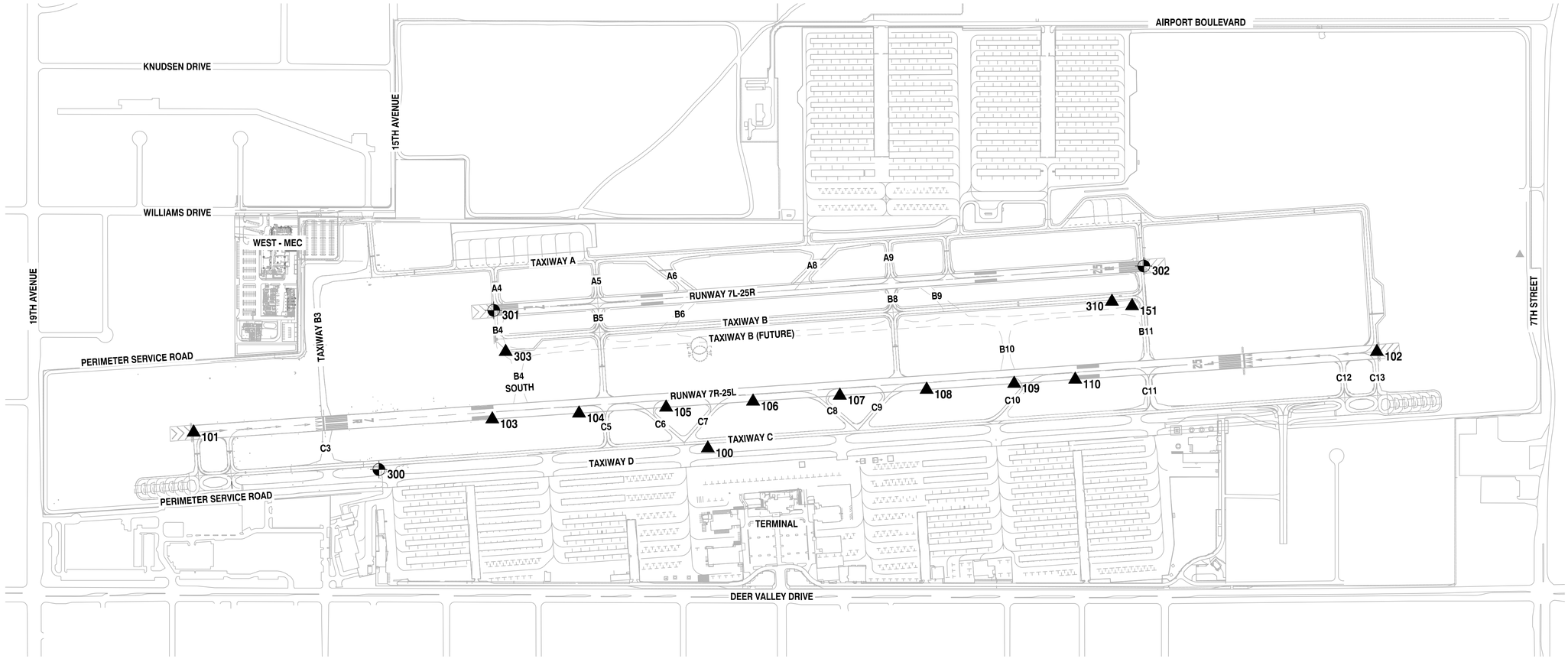
SHEET OVERVIEW TITLE

ALIGNMENT PLAN

SHEET REFERENCE NUMBER:
GI-702

SHEET 07 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV3100096-GI-702-GMP1.dwg — Jun 14,2024 11:49am



SURVEY CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	977527.67	649027.51	0.00	SET SCRIBED X ON CATCH BASIN
101	977637.62	645477.24	0.00	BCF 7R
102	978194.57	653647.99	0.00	BCF 25L
103	977728.33	647539.39	1450.72	SET MAG NAIL
104	977769.15	648138.41	1453.66	SET MAG NAIL
105	977810.12	648739.81	1456.54	SET MAG NAIL
106	977851.33	649340.13	1459.45	SET MAG NAIL
107	977891.96	649939.46	1462.25	SET MAG NAIL
108	977933.02	650539.03	1465.23	SET MAG NAIL
109	977974.16	651143.49	1468.12	SET MAG NAIL
110	978002.68	651564.94	1470.22	SET MAG NAIL
151	978510.39	651957.73	0.00	BRASS CAP PAC
303	978194.40	647631.68	1452.51	SET MAG NAIL
310	978541.16	651818.28	1474.07	SET MAG NAIL

PRIMARY CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
300	977381.08	646756.34	1443.80	BCF DVT B (SACS) (SEE NOTE 2)
301	978480.32	647549.05	1455.24	BCF 7L THRESHOLD MONUMENT
302	978786.45	652038.66	1476.91	BCF 25R THRESHOLD MONUMENT

LEGEND

1 SITE BENCHMARK

2 TEMPORARY BENCHMARK

BCF BRASS CAP FLUSH

SURVEY CONTROL NOTES

THE FIELD PORTION OF THIS SURVEY WAS PERFORMED DURING THE MONTHS OF JULY AND AUGUST, 2019, AND JANUARY, 2023.

HORIZONTAL DATUM (NAD 83 NORTH AMERICAN DATUM OF 1983)

ALL COORDINATES SHOWN ARE GROUND VALUES BASED ON NAD83 ARIZONA STATE PLANE CENTRAL ZONE GRID COORDINATES SCALED ABOUT 0,0 BY A FACTOR OF 1.00016216.

VERTICAL DATUM (NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988)

PRIMARY SITE BENCHMARK – DVT B (SACS) POINT #300 A BRASS CAP FLUSH PER NGS DATA SHEET HAVING AN ELEVATION OF 1443.80 (NAVD88)
SECONDARY SITE BENCHMARK – THRESHOLD MONUMENT 7L POINT #301 A BRASS CAP FLUSH HAVING AN ELEVATION OF 1455.24

NOTE:

1. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF COORDINATES AND ELEVATIONS OF BENCHMARKS PRIOR TO CONSTRUCTION.
2. PRIMARY SITE BENCHMARK APPEARS TO HAVE BEEN OBLITERATED BY CONSTRUCTION BETWEEN AUGUST 2019 AND JANUARY 2023. NO MONUMENT FOUND DURING THE JANUARY 2023 SURVEY.

N

0 400' 800'

SCALE:1"=400'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

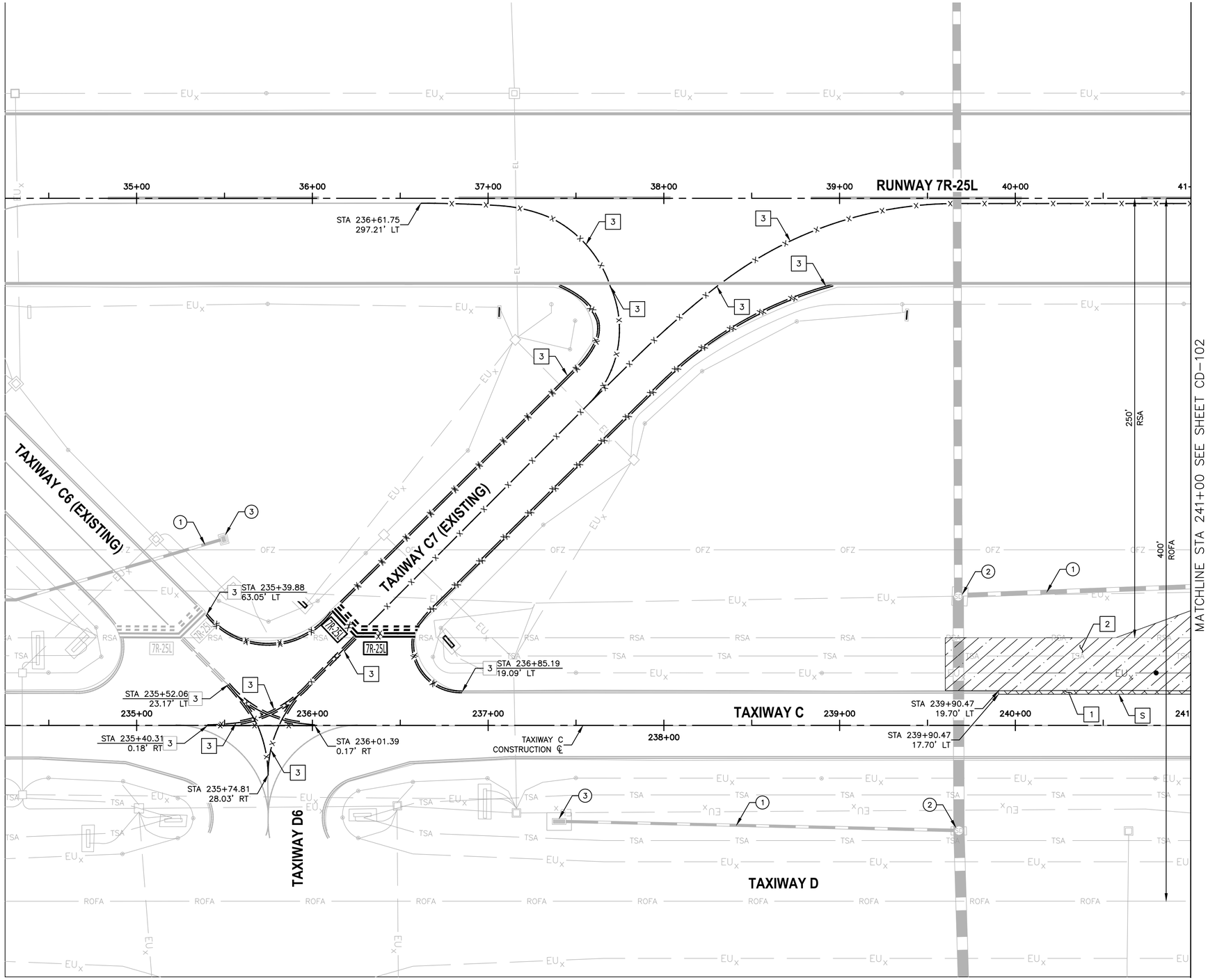
SHEET OVERVIEW TITLE

SURVEY CONTROL PLAN

SHEET REFERENCE NUMBER:
VF-401

SHEET 08 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-VF-401-GMP1.dwg — Jun 14,2024 11:49am



REMOVAL NOTES

1	REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH
2	REMOVE, HAUL, AND STOCKPILE CRUSHED AGGREGATE SLOPE PROTECTION PER SPECIAL PROVISION ITEM 37
3	OBLITERATE EXISTING PAVEMENT MARKING
S	SAWCUT EXISTING AC PAVEMENT FULL DEPTH

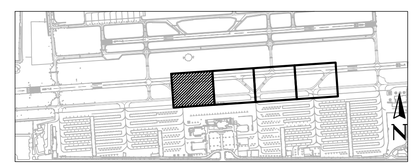
FULL DEPTH ASPHALT PAVEMENT REMOVAL

CRUSHED AGGREGATE SLOPE PROTECTION

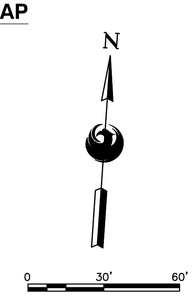
REFERENCE NOTES

(1)	EXISTING STORM DRAIN PIPE, PROTECT IN PLACE
(2)	EXISTING STORM DRAIN MANHOLE, PROTECT IN PLACE
(3)	EXISTING CATCH BASIN, PROTECT IN PLACE

1. SEE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL ITEMS.
2. SEE GRADING AND DRAINAGE PLAN FOR GRADING LIMIT STATIONING.
3. STATIONING IS BASED ON NEW TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



SCALE:1"=30'

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PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

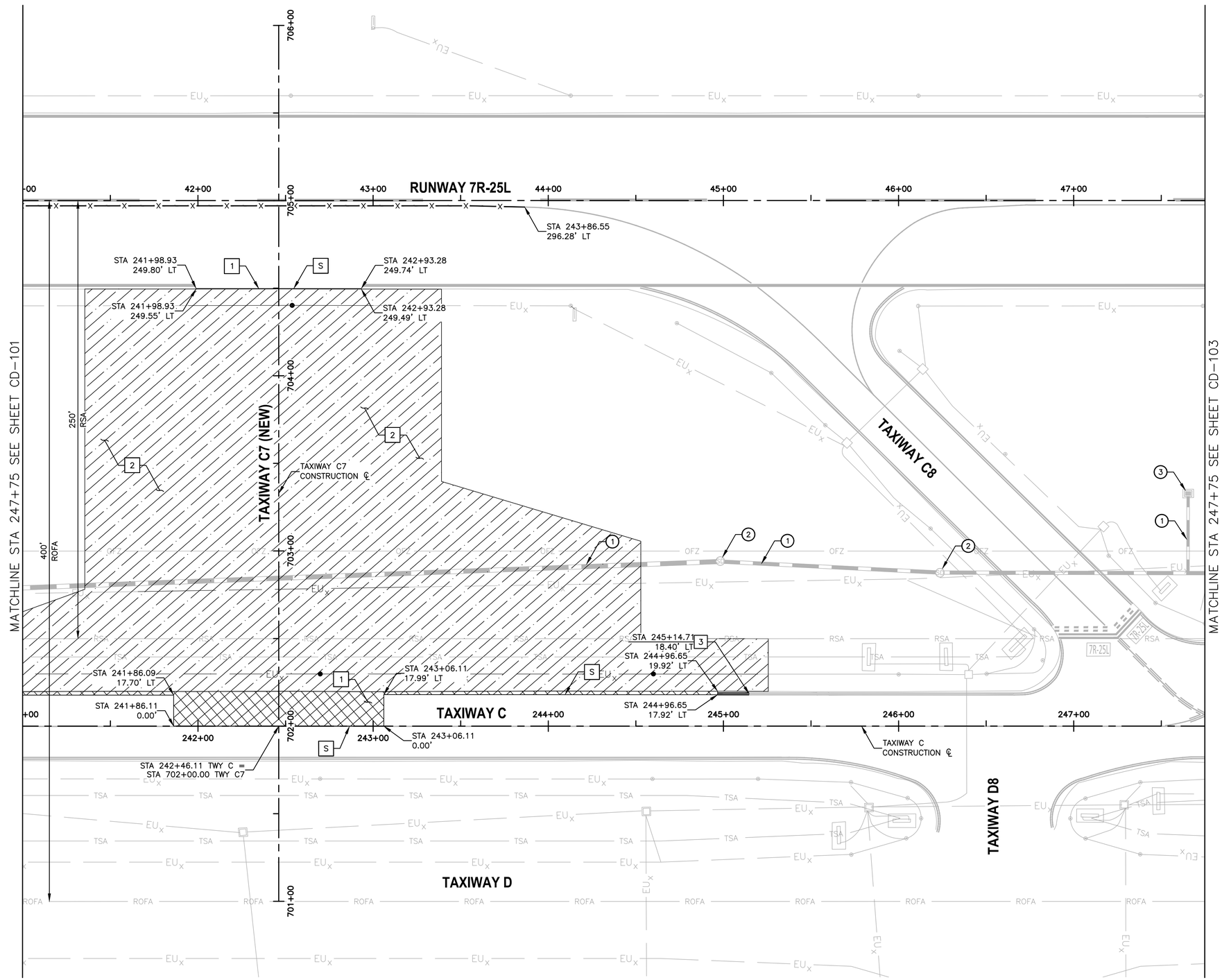
ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE: **CIVIL DEMOLITION PLAN**

SHEET REFERENCE NUMBER: **CD-101**

SHEET 09 OF 56

N:\2022\2210004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CD-101-GMP1.dwg - Jun 14,2024 11:49am



REMOVAL NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH
2. REMOVE, HAUL, AND STOCKPILE CRUSHED AGGREGATE SLOPE PROTECTION PER SPECIAL PROVISION ITEM 37
3. OBLITERATE EXISTING PAVEMENT MARKING
S. SAWCUT EXISTING AC PAVEMENT FULL DEPTH

FULL DEPTH ASPHALT PAVEMENT REMOVAL

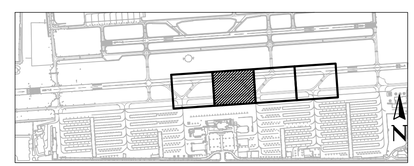
CRUSHED AGGREGATE SLOPE PROTECTION

REFERENCE NOTES

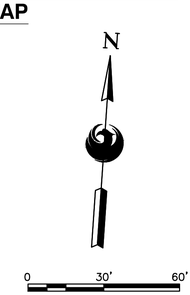
(1) EXISTING STORM DRAIN PIPE, PROTECT IN PLACE

(2) EXISTING STORM DRAIN MANHOLE, PROTECT IN PLACE

1. SEE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL ITEMS.
2. SEE GRADING AND DRAINAGE PLAN FOR GRADING LIMIT STATIONING.
3. STATIONING IS BASED ON NEW TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

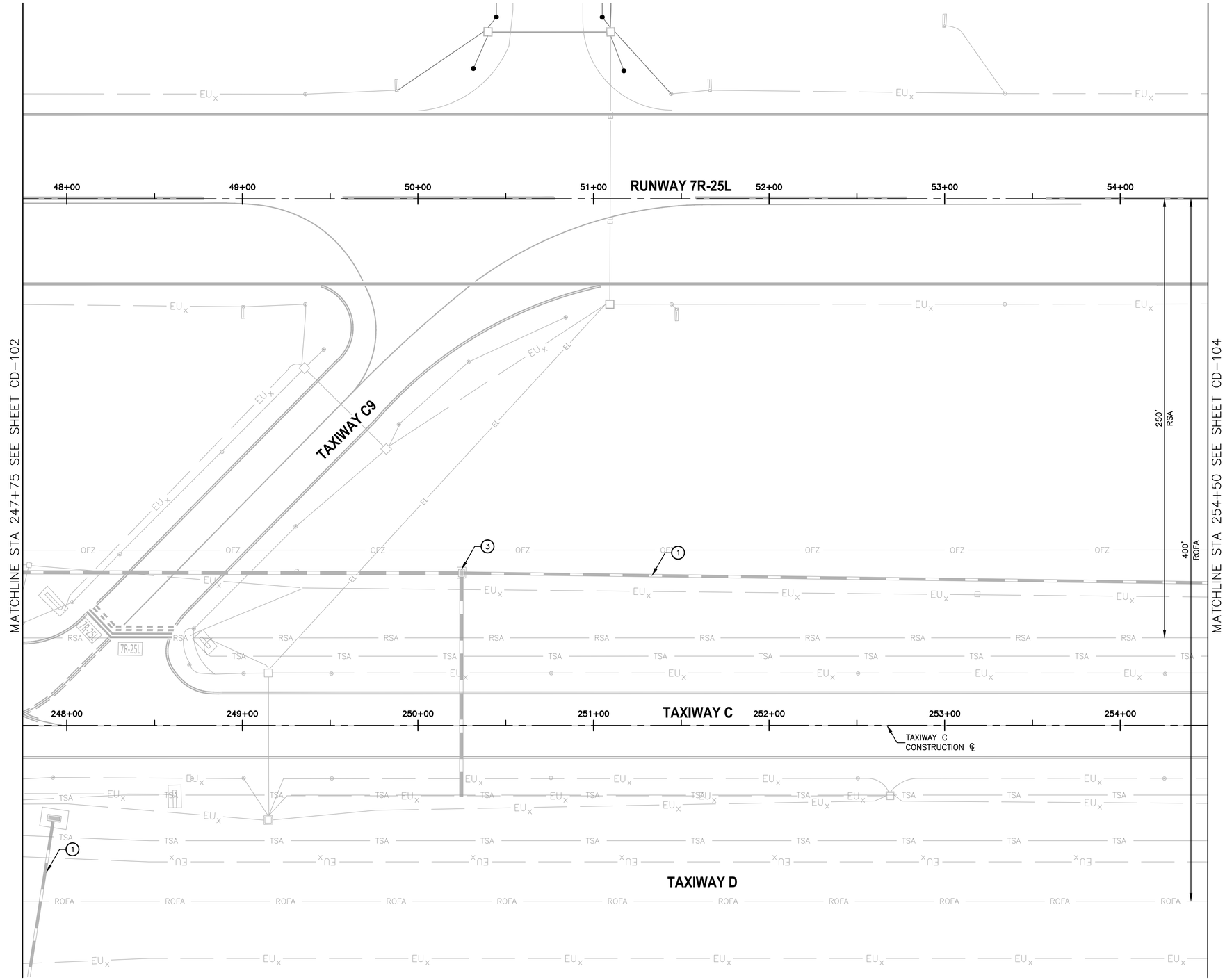
SHEET OVERVIEW TITLE

CIVIL DEMOLITION PLAN

SHEET REFERENCE NUMBER:
CD-102

SHEET 10 OF 56

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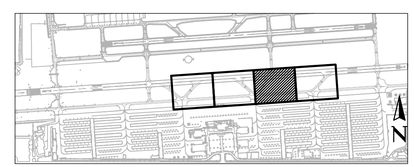
REMOVAL NOTES

NO WORK THIS SHEET

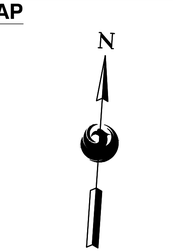
REFERENCE NOTES

1. EXISTING STORM DRAIN PIPE, PROTECT IN PLACE
2. EXISTING STORM DRAIN MANHOLE, PROTECT IN PLACE
3. EXISTING CATCH BASIN, PROTECT IN PLACE

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2. SEE GRADING AND DRAINAGE PLAN FOR GRADING LIMIT STATIONING.
3. STATIONING IS BASED ON NEW TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



0 30' 60'

SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYPASS
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E353K 01C

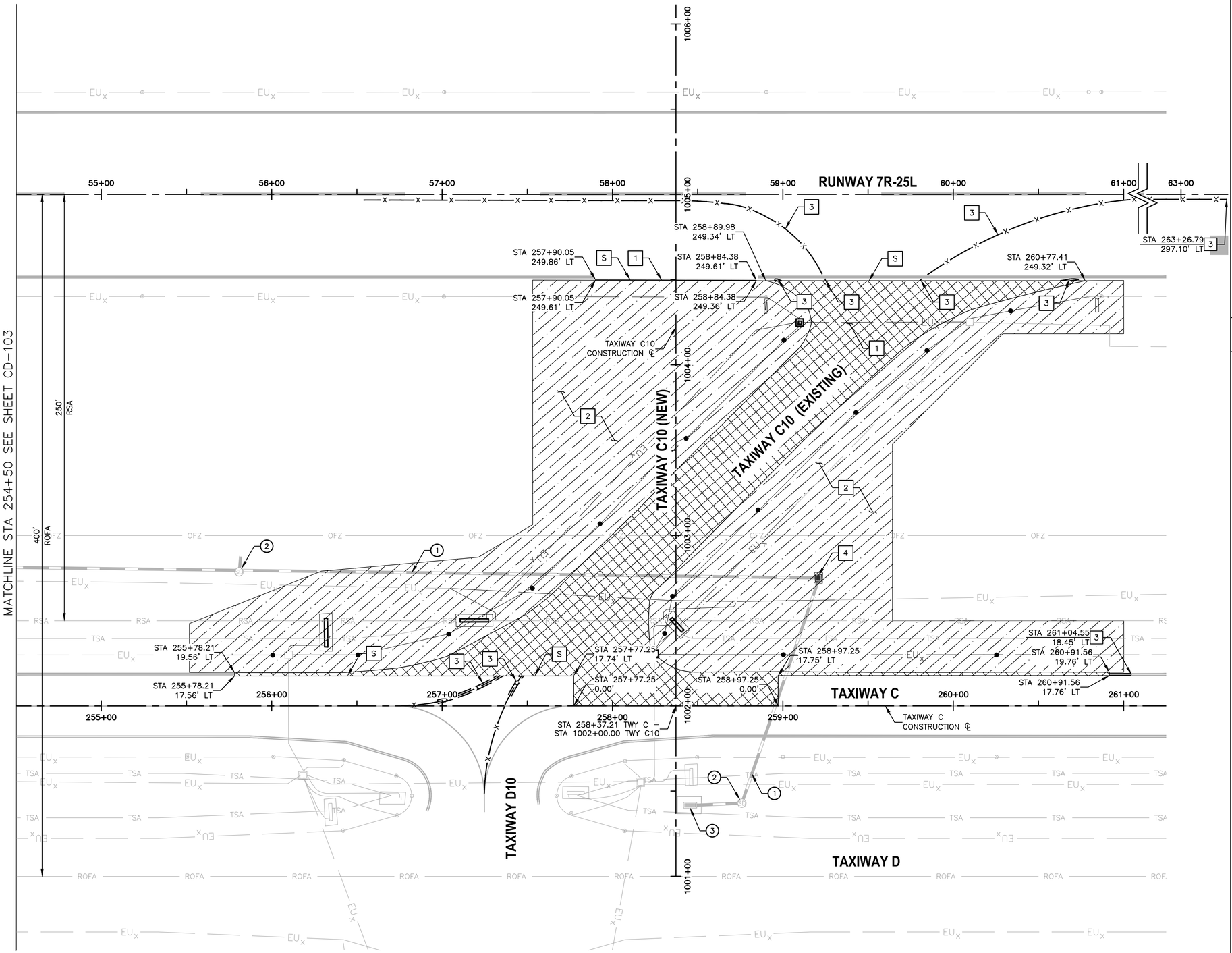
SHEET OVERVIEW TITLE

CIVIL DEMOLITION PLAN

SHEET REFERENCE NUMBER:
CD-103

SHEET 11 OF 56

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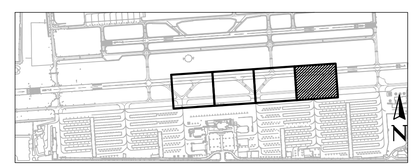
REMOVAL NOTES

1	REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH
2	REMOVE, HAUL, AND STOCKPILE CRUSHED AGGREGATE SLOPE PROTECTION PER SPECIAL PROVISION ITEM 37
3	OBLITERATE EXISTING PAVEMENT MARKING
4	REMOVE EXISTING CATCH BASIN
S	SAWCUT EXISTING AC PAVEMENT FULL DEPTH
	FULL DEPTH ASPHALT PAVEMENT REMOVAL
	CRUSHED AGGREGATE SLOPE PROTECTION

REFERENCE NOTES

(1)	EXISTING STORM DRAIN PIPE, PROTECT IN PLACE
(2)	EXISTING STORM DRAIN MANHOLE, PROTECT IN PLACE
(3)	EXISTING CATCH BASIN, PROTECT IN PLACE

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KEY MAP

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N

0 30' 60'

SCALE:1"=30'

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 31 | Phoenix, AZ 85034
SUB CONSULTANT

Registered Professional Engineer — 43820 — CHINTAN S. JHAVERI — Date Signed 06/14/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

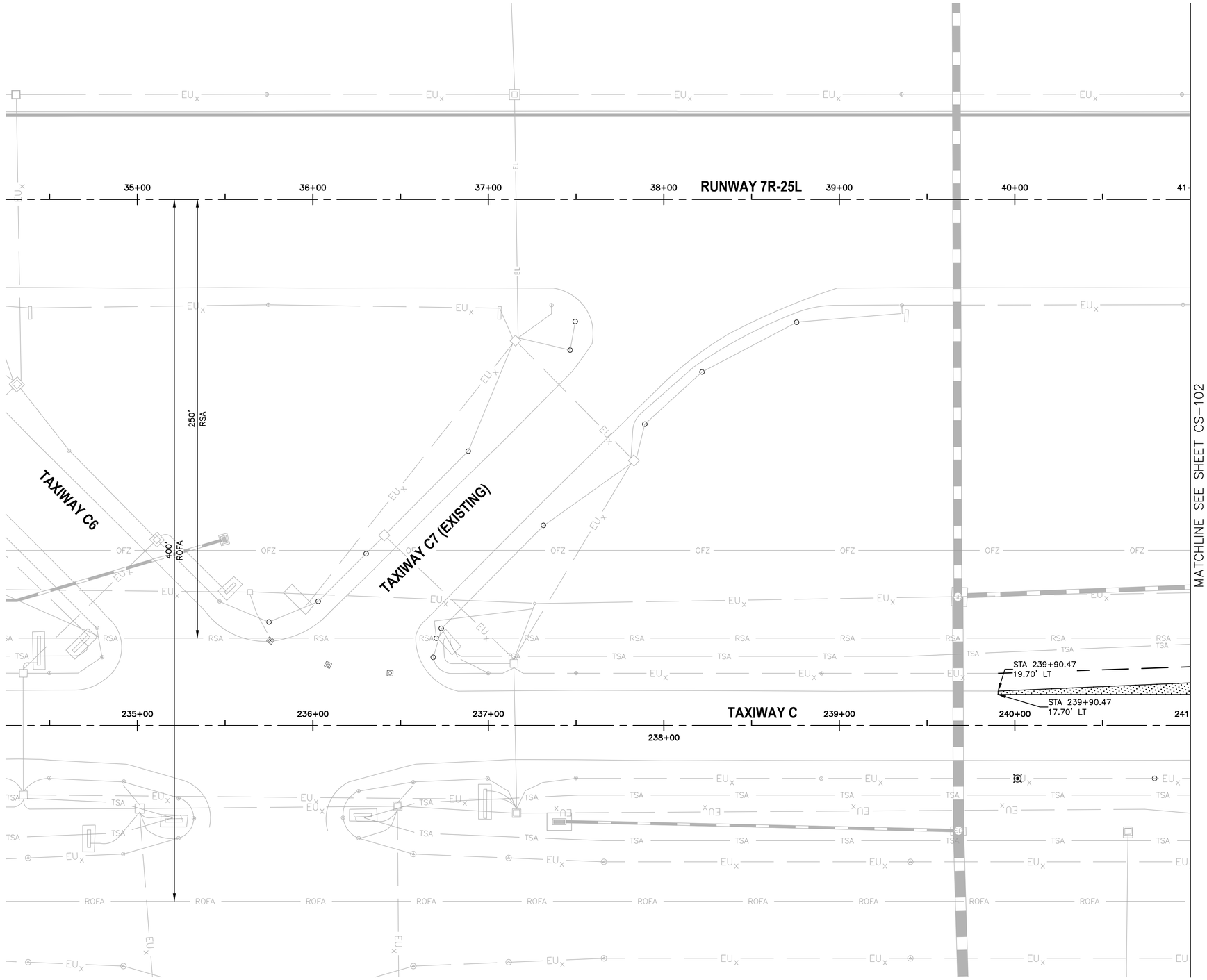
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SHEET OVERVIEW TITLE: CIVIL DEMOLITION PLAN

SHEET REFERENCE NUMBER: CD-104

SHEET 12 OF 56

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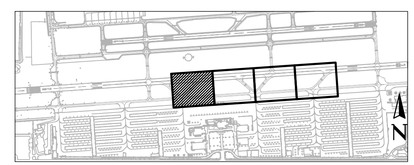


LEGEND

NEW ASPHALT TAXIWAY PAVEMENT. SEE TYPICAL SECTION 1 SHEET CS-301

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.
2. SEE ELECTRICAL SHEETS FOR ELECTRICAL WORK IN THIS AREA.



KEY MAP

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0 30' 60'
SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

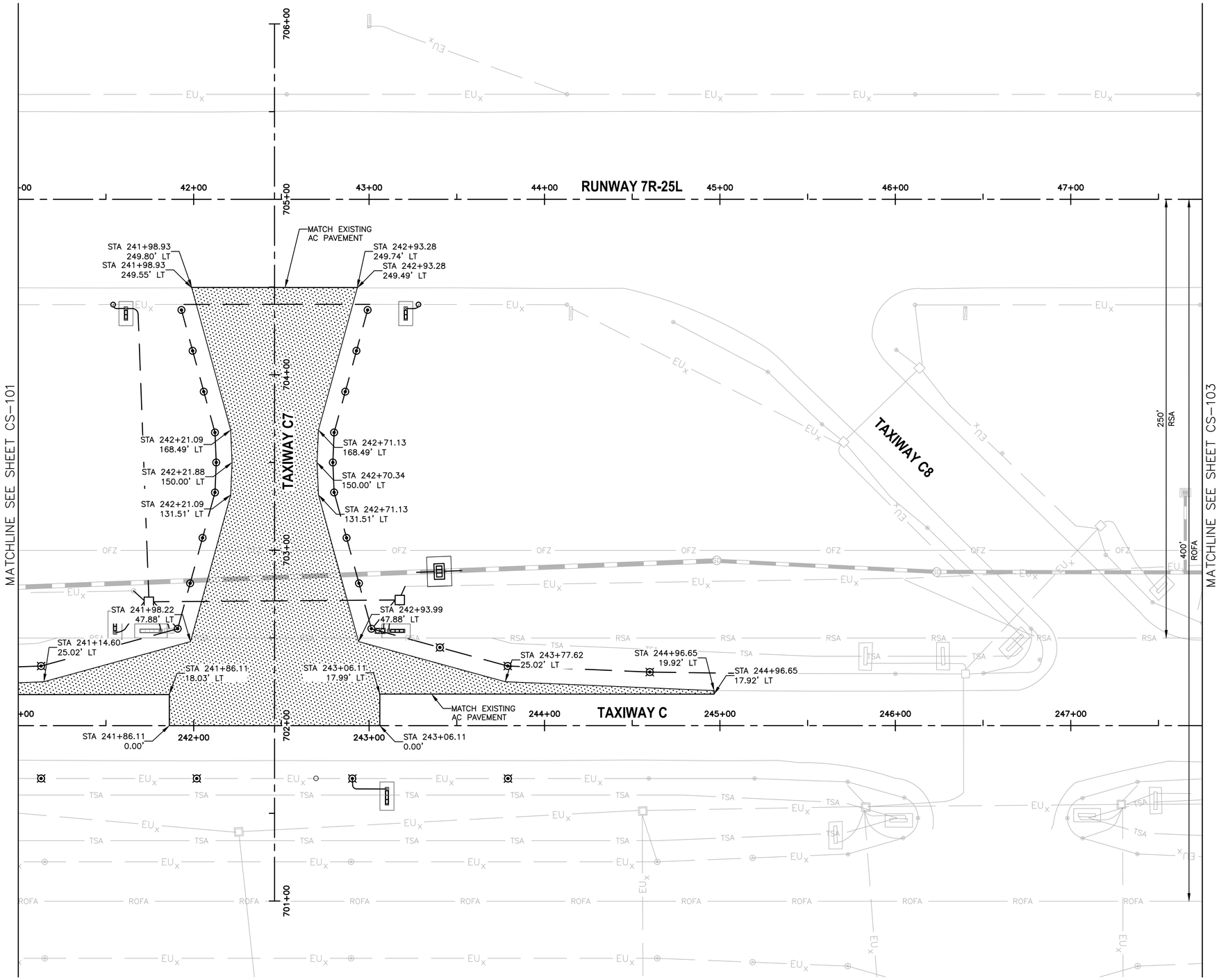
SHEET OVERVIEW TITLE

GEOMETRIC LAYOUT PLAN

SHEET REFERENCE NUMBER:
CS-101

SHEET 13 OF 56

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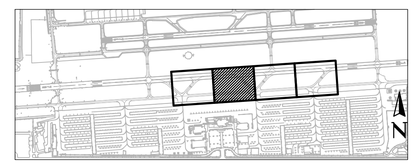


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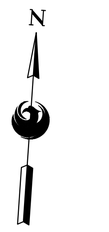
NEW ASPHALT TAXIWAY PAVEMENT. SEE TYPICAL SECTION 1 SHEET CS-301

REFERENCE NOTES

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2. SEE ELECTRICAL SHEETS FOR ELECTRICAL WORK IN THIS AREA.



KEY MAP



0 30' 60'

SCALE:1"=30'

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PHX DVT

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

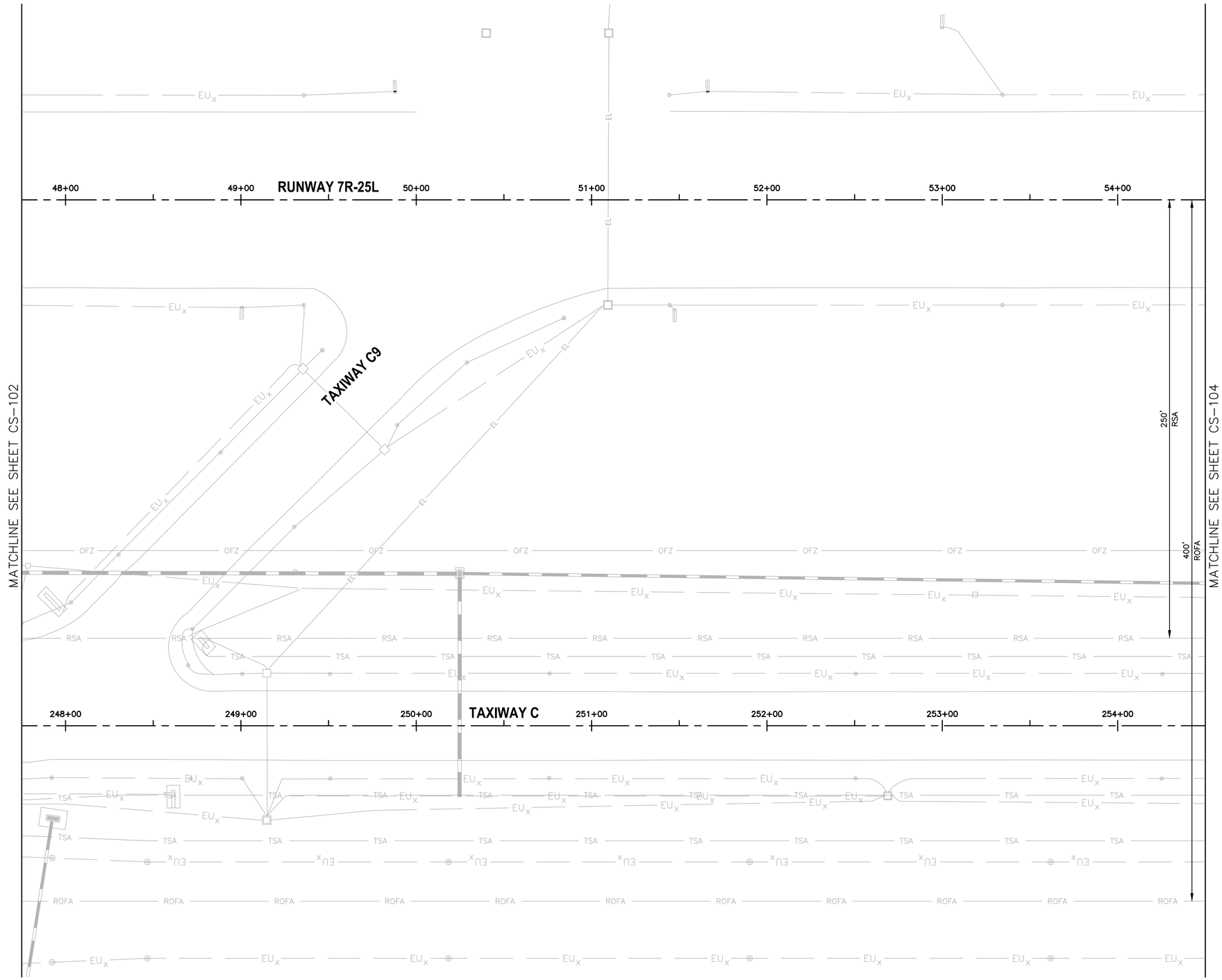
SHEET OVERVIEW TITLE

GEOMETRIC LAYOUT PLAN

SHEET REFERENCE NUMBER: CS-102

SHEET 14 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CS-102-GMP1.dwg - Jun 14,2024 11:50am

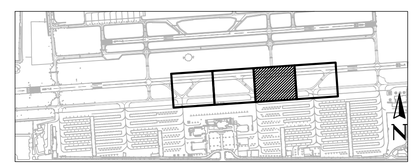


LEGEND

NO WORK THIS SHEET

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.
2. SEE ELECTRICAL SHEETS FOR ELECTRICAL WORK IN THIS AREA.



KEY MAP



0 30' 60'

SCALE:1"=30'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PRIME CONSULTANT
TRACE CONSULTING
1201 E. Jefferson St. | Suite 31 | Phoenix, AZ 85034

SUB CONSULTANT

Registered Professional Engineer
43620
CHINTAN S. JHAVERI
Date Signed 06/14/24
ARIZONA, U.S.A.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT DVR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
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Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

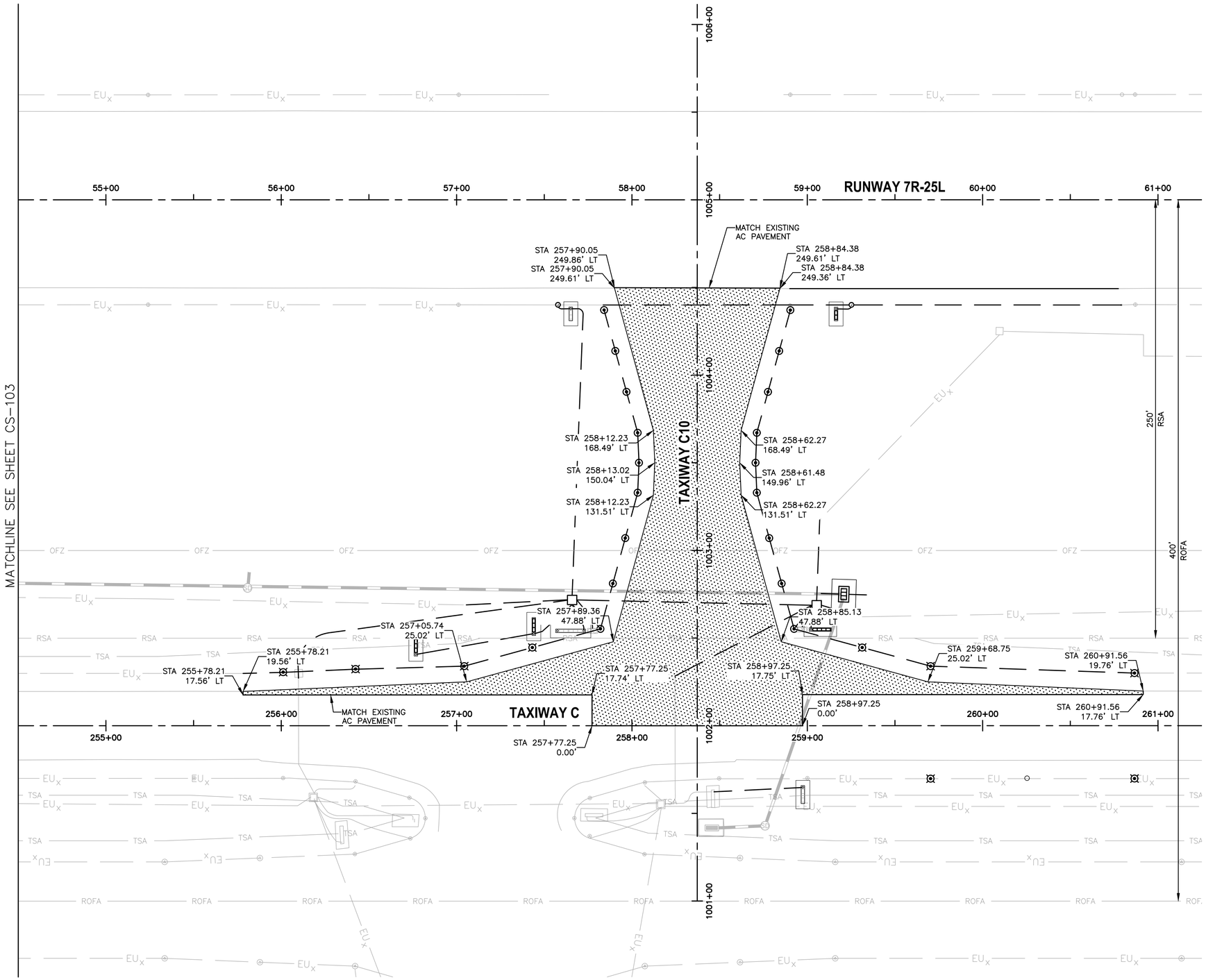
SHEET OVERVIEW TITLE

GEOMETRIC LAYOUT PLAN

SHEET REFERENCE NUMBER:
CS-103

SHEET 15 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CS-103-GMP1.dwg - Jun 14,2024 11:51am

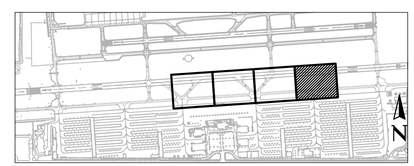


LEGEND

NEW ASPHALT TAXIWAY PAVEMENT. SEE TYPICAL SECTION 1 SHEET CS-301

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.
2. SEE ELECTRICAL SHEETS FOR ELECTRICAL WORK IN THIS AREA.



KEY MAP

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ARIZONA811
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N

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SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

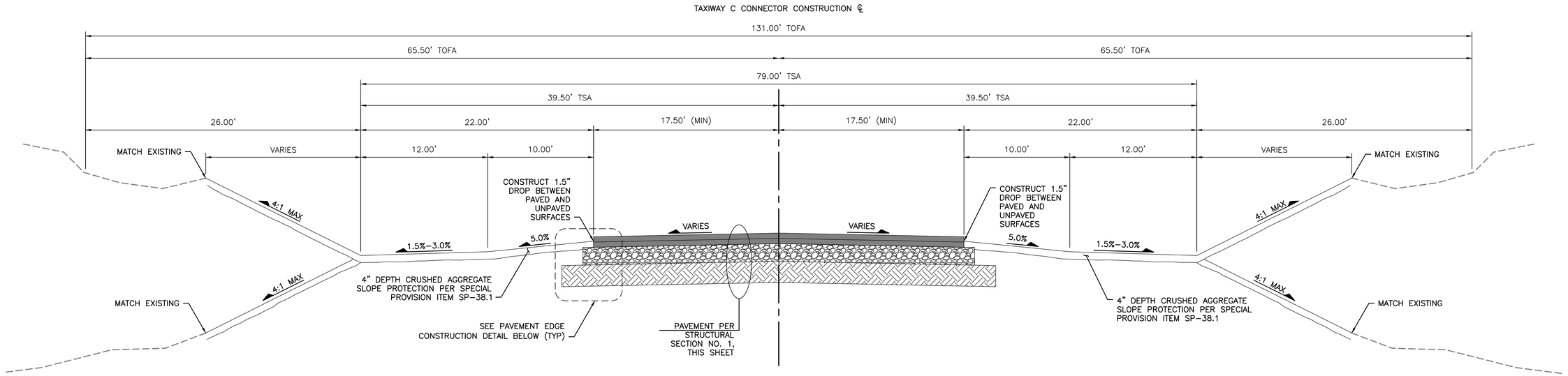
SHEET OVERVIEW TITLE

GEOMETRIC LAYOUT PLAN

SHEET REFERENCE NUMBER:
CS-104

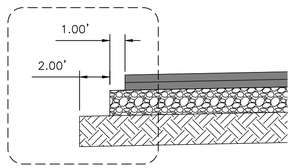
SHEET 16 OF 56

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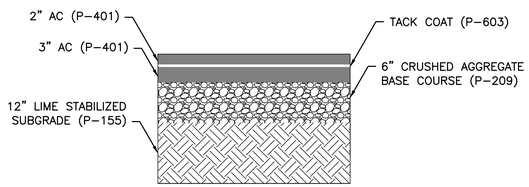


TYPICAL SECTION NO. 1

TAXIWAYS C7 & C10



PAVEMENT EDGE CONSTRUCTION DETAIL



STRUCTURAL SECTION NO.1

N:\2022\221004 – DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CS-301-GMP1.dwg – Jun 14,2024 11:51am

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

SUB CONSULTANT

Registered Professional Engineer — 43820 — CHINTAN S. JHAVERI — Date Signed 06/14/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR — CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

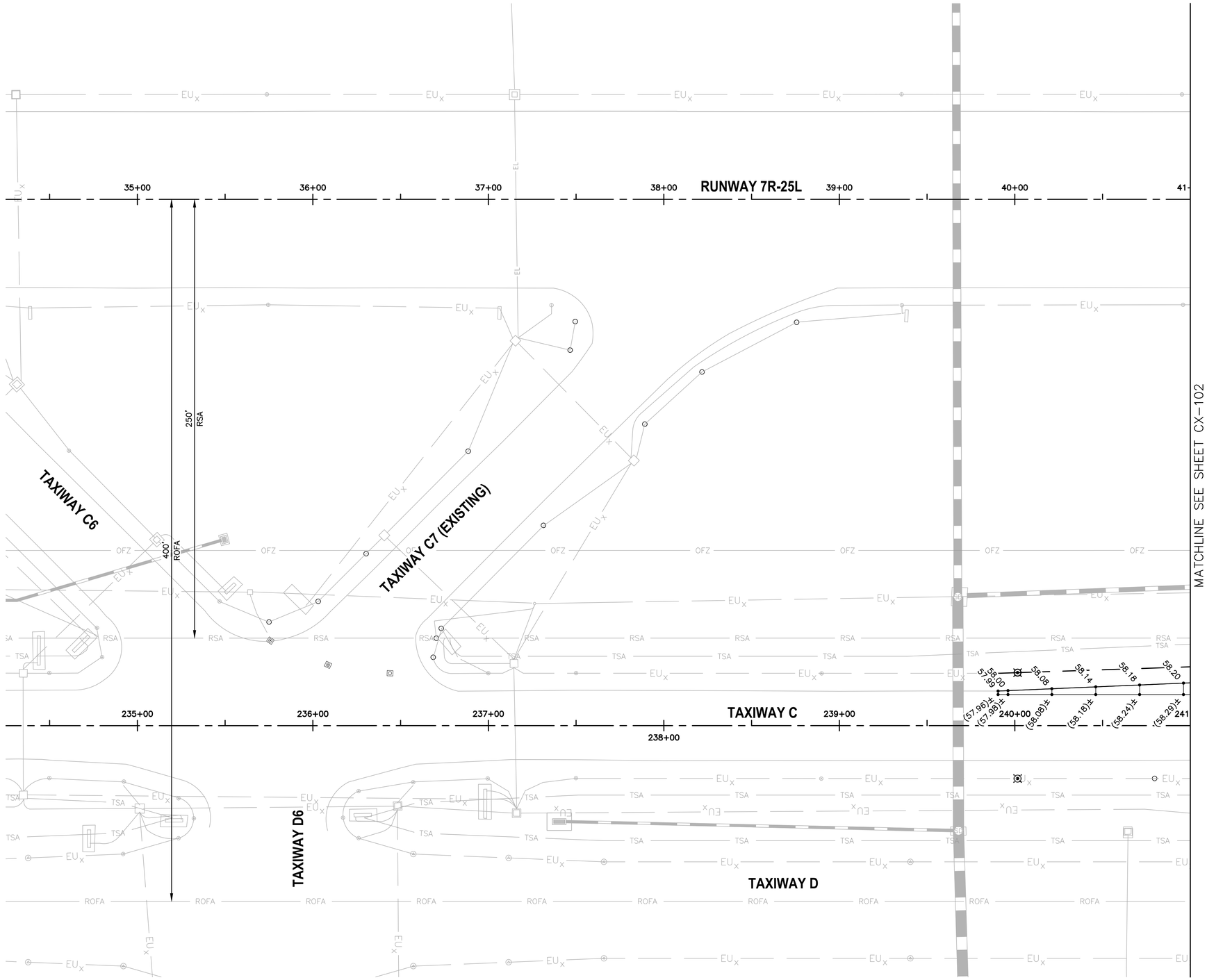
AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE: TYPICAL SECTIONS

SHEET REFERENCE NUMBER: CS-301



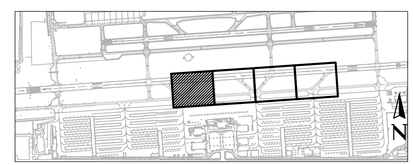
LEGEND

1. ADD 1400 TO ALL ELEVATIONS

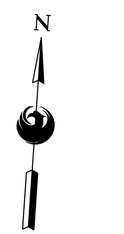
XX.XX	PROPOSED ELEVATION
(XX.XX)±	MATCH EXISTING ELEVATION

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



0 30' 60'

SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

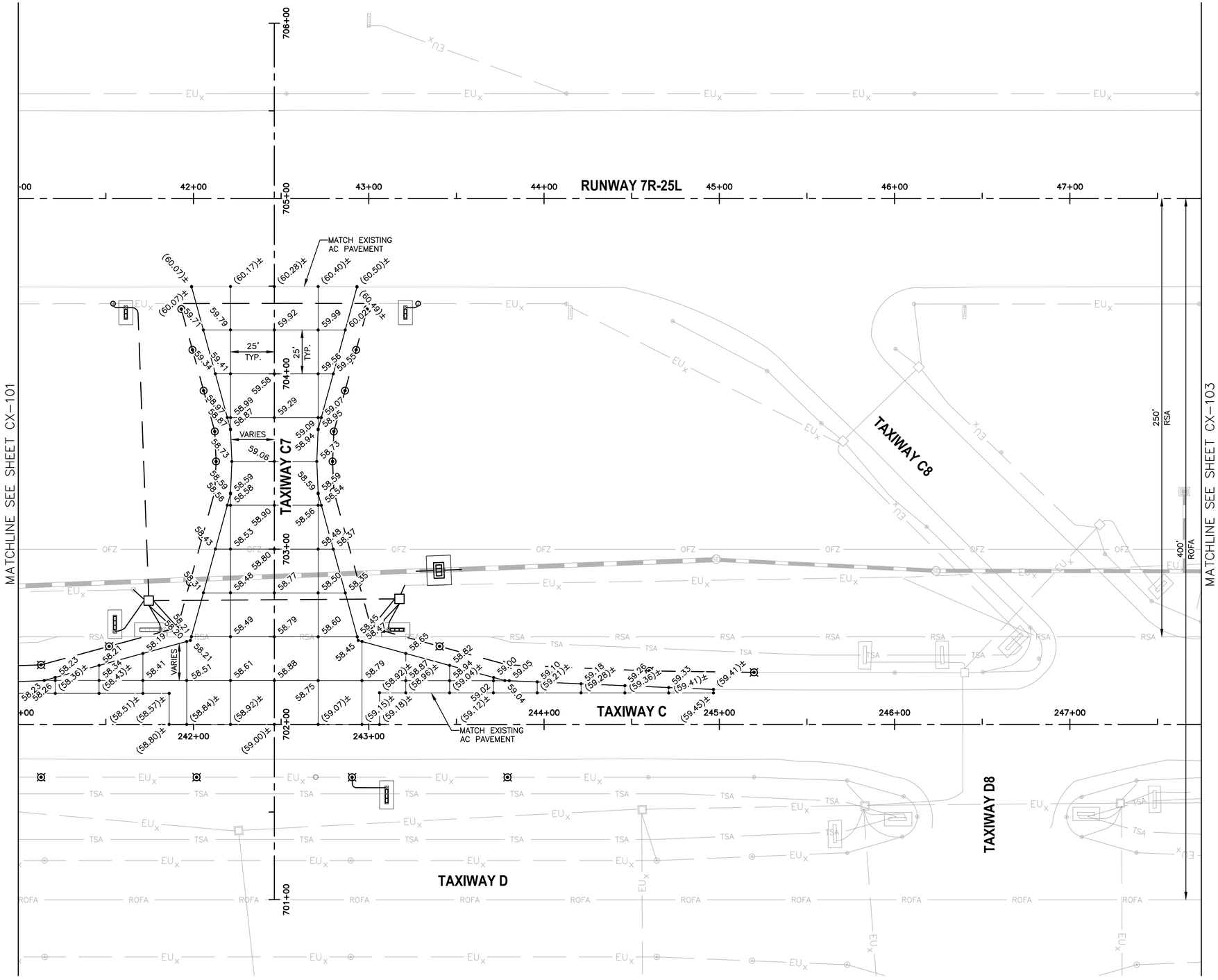
SHEET OVERVIEW TITLE

PAVEMENT STAKING PLAN

SHEET REFERENCE NUMBER:
CX-101

SHEET 18 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CX-101-GMP1.dwg - Jun 14,2024 11:51am



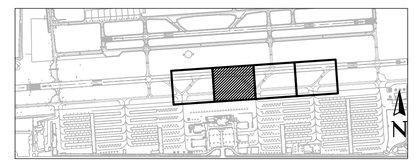
LEGEND

1. ADD 1400 TO ALL ELEVATIONS

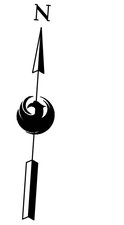
XX.XX	PROPOSED ELEVATION
(XX.XX)±	MATCH EXISTING ELEVATION

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



0 30' 60'

SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

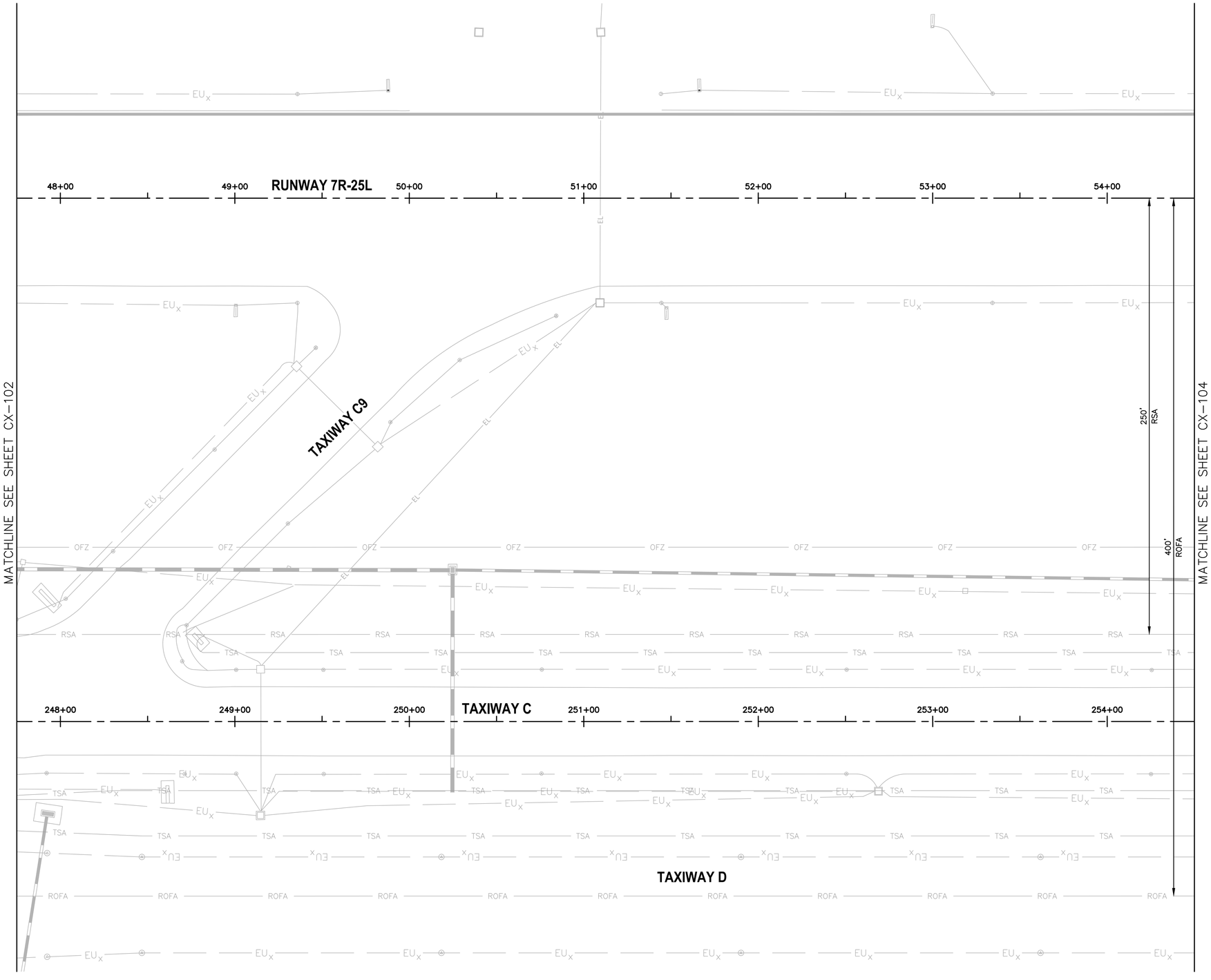
SHEET OVERVIEW TITLE

PAVEMENT STAKING PLAN

SHEET REFERENCE NUMBER:
CX-102

SHEET 19 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CX-102-GMP1.dwg - Jun 14,2024 11:51am

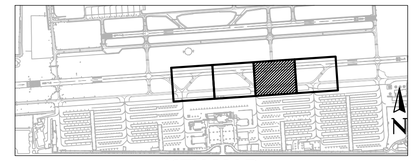


LEGEND

NO WORK THIS SHEET

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP

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ARIZONA811
Call 811 or click Arizona811.com



0 30' 60'

SCALE:1"=30'

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

SUB CONSULTANT

Registered Professional Engineer — 43620 — CHINTAN S. JHAVERI — Date Signed 06/14/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

PAVEMENT STAKING PLAN

SHEET REFERENCE NUMBER: CX-103

SHEET 20 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CX-103-GMP1.dwg - Jun 14,2024 11:52am

LEGEND

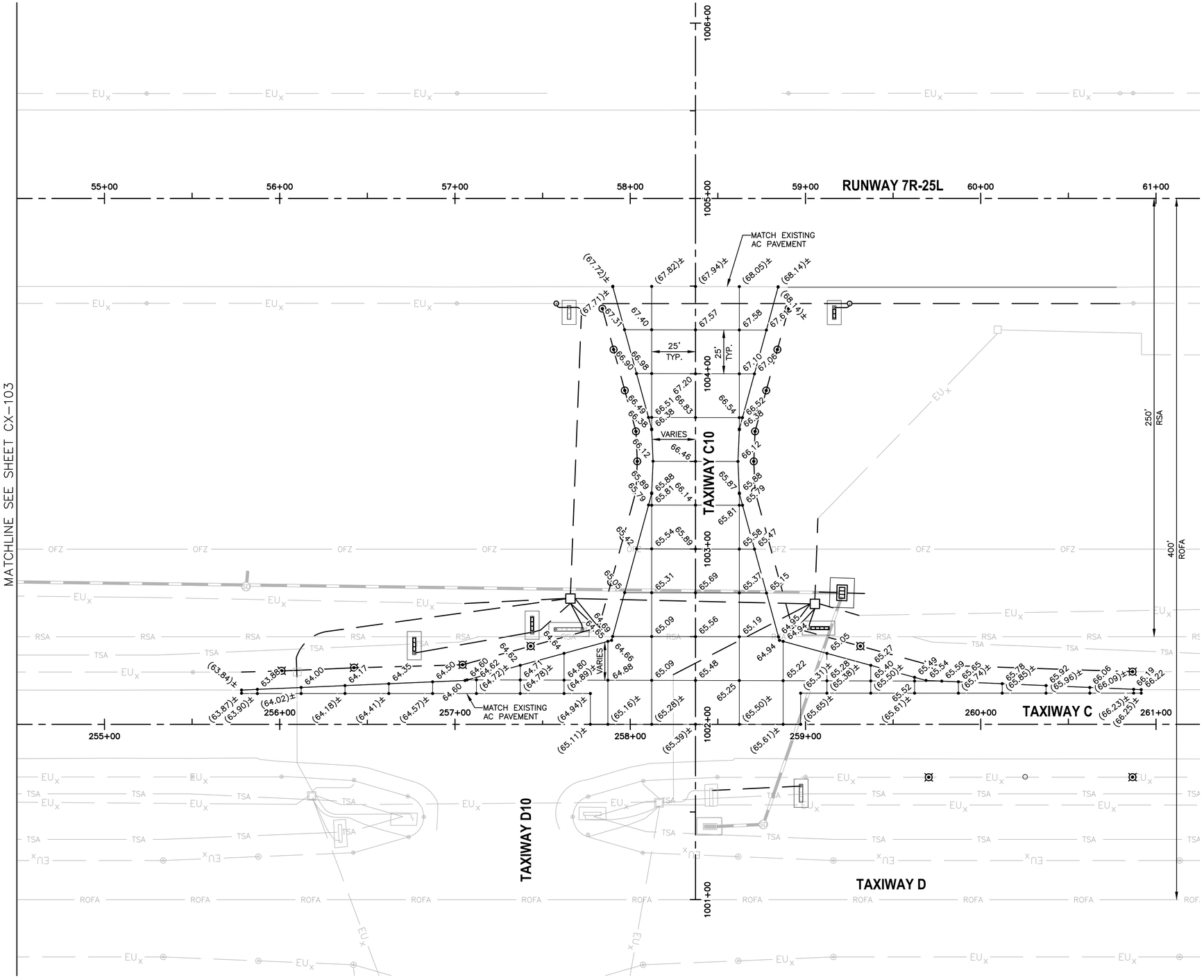
1. ADD 1400 TO ALL ELEVATIONS

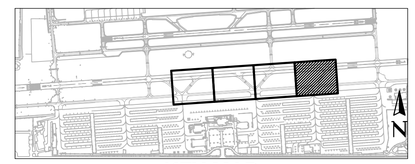
XX.XX PROPOSED ELEVATION

(XX.XX)± MATCH EXISTING ELEVATION

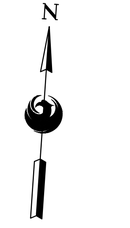
REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.





KEY MAP



0 30' 60'

SCALE:1"=30'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYPASS

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 06/2024

Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

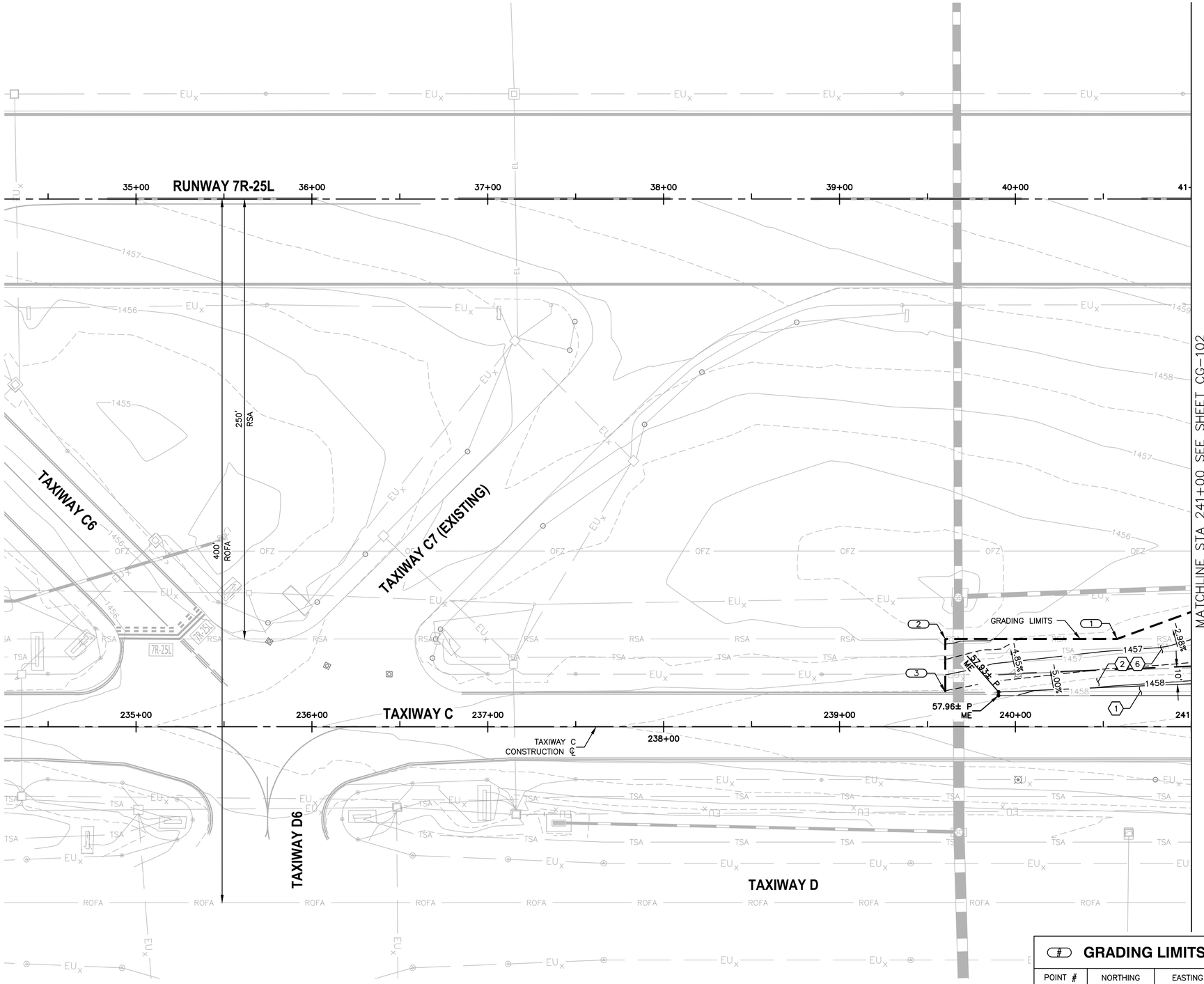
PAVEMENT STAKING PLAN

SHEET REFERENCE NUMBER:

CX-104

SHEET 21 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CX-104-GMP1.dwg - Jun 14,2024 11:52am



GRADING LIMITS

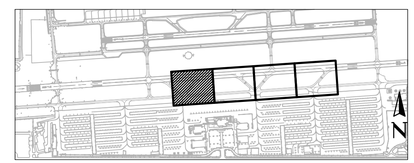
POINT #	NORTHING	EASTING
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2	977643.80	649245.67
3	977613.75	649247.72

CONSTRUCTION NOTES

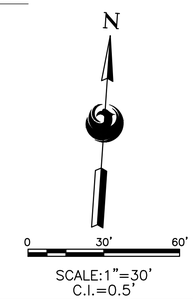
1. CONSTRUCT NEW AC TAXIWAY PAVEMENT, SEE TYPICAL SECTION SHEET CS–301
2. HAUL AND PLACE 4" DEPTH AGGREGATE SLOPE PROTECTION PER SPECIAL PROVISION ITEM 38
6. APPLY HERBICIDE AND PRE–EMERGENT PER MAG SECTION 430.8

REFERENCE NOTES

1. SEE SHEETS CD–101 THROUGH CD–104 FOR DEMOLITION PLAN
2. SEE SHEET CS–301 FOR TYPICAL SECTIONS AND PAVEMENT STRUCTURAL SECTIONS
3. SEE SHEETS CS–101 THROUGH CS–104 FOR THE GEOMETRIC LAYOUT PLAN FOR TAXIWAY CONNECTOR GEOMETRY
4. SEE SHEETS CX–101 THROUGH CX–104 FOR THE PAVEMENT STAKING PLAN
5. ADD 1400 TO ALL SPOT ELEVATIONS SHOWN IN PLAN VIEW
6. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED
7. SEE ELECTRICAL SHEETS FOR ELECTRICAL WORK IN THIS AREA
8. PROVIDE 1.5" DROP FROM PAVEMENT ELEVATION PER TYPICAL SECTION, SHEET CS–301
9. EXISTING STRUCTURES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED



KEY MAP



SCALE:1"=30'
C.I.=0.5'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

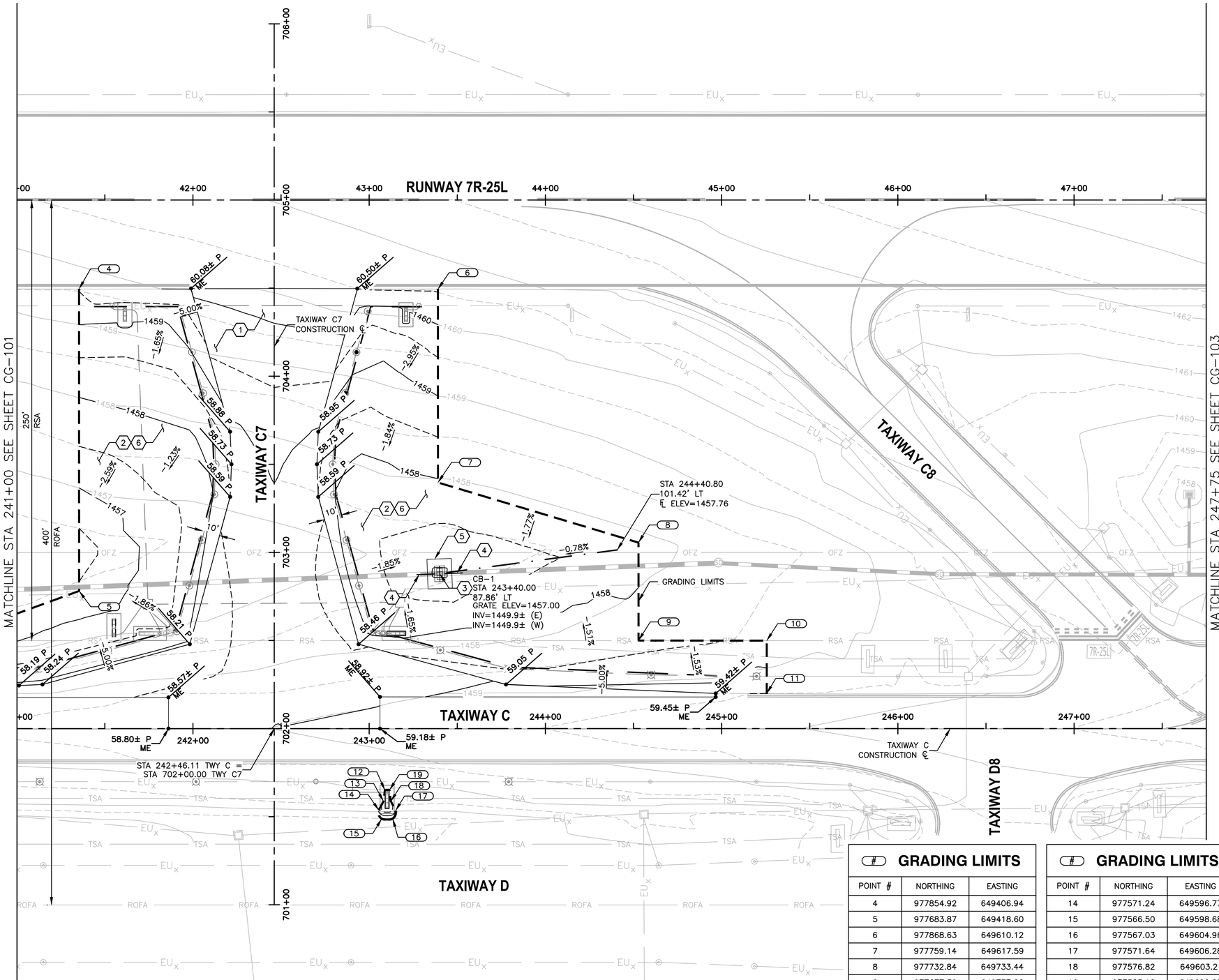
SHEET OVERVIEW TITLE

GRADING & DRAINAGE PLAN

SHEET REFERENCE NUMBER:
CG-101

SHEET 22 OF 56

N:\2022\221004 – DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CG-101-GMP1.dwg – Jun 14,2024 11:52am



GRADING LIMITS

#	NORTHING	EASTING
4	977854.92	649406.94
5	977683.87	649418.60
6	977868.63	649610.12
7	977759.14	649617.59
8	977732.84	649733.44
9	977677.39	649737.22
10	977682.27	649809.83
11	977652.38	649811.87
12	977582.86	649599.40
13	977576.52	649599.03

GRADING LIMITS

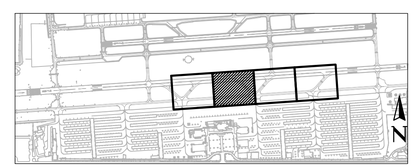
#	NORTHING	EASTING
14	977571.24	649596.77
15	977566.50	649598.68
16	977567.03	649604.96
17	977571.64	649606.28
18	977576.82	649603.21
19	977583.12	649602.03

CONSTRUCTION NOTES

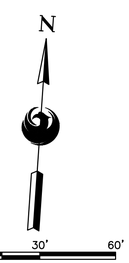
1. CONSTRUCT NEW AC TAXIWAY PAVEMENT, SEE TYPICAL SECTION SHEET CS-301
2. HAUL AND PLACE 4" DEPTH AGGREGATE SLOPE PROTECTION PER SPECIAL PROVISION ITEM 38
3. CONSTRUCT NEW AIRFIELD CONCRETE CATCH BASIN (TRIPLE GRATE) SEE DETAIL 1 SHEET CU-502
4. INSTALL NEW 4" HDPE PERFORATED PIPE
5. CONSTRUCT NEW CONCRETE APRON
6. APPLY HERBICIDE AND PRE-EMERGENT PER MAG SECTION 430.8

REFERENCE NOTES

1. SEE SHEETS CD-101 THROUGH CD-104 FOR DEMOLITION PLAN
2. SEE SHEET CS-301 FOR TYPICAL SECTIONS AND PAVEMENT STRUCTURAL SECTIONS
3. SEE SHEETS CS-101 THROUGH CS-104 FOR THE GEOMETRIC LAYOUT PLAN FOR TAXIWAY CONNECTOR GEOMETRY
4. SEE SHEETS CX-101 THROUGH CX-104 FOR THE PAVEMENT STAKING PLAN
5. ADD 1400 TO ALL SPOT ELEVATIONS SHOWN IN PLAN VIEW
6. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED
7. SEE ELECTRICAL SHEETS FOR ELECTRICAL WORK IN THIS AREA
8. PROVIDE 1.5" DROP FROM PAVEMENT ELEVATION PER TYPICAL SECTION, SHEET CS-301
9. EXISTING STRUCTURES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED



KEY MAP



SCALE:1"=30'
C.I.=0.5'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 31 | Phoenix, AZ 85034
SUB CONSULTANT

Registered Professional Engineer
43820
CHINTAN S. JHAVERI
Date Signed 06/28/24
ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

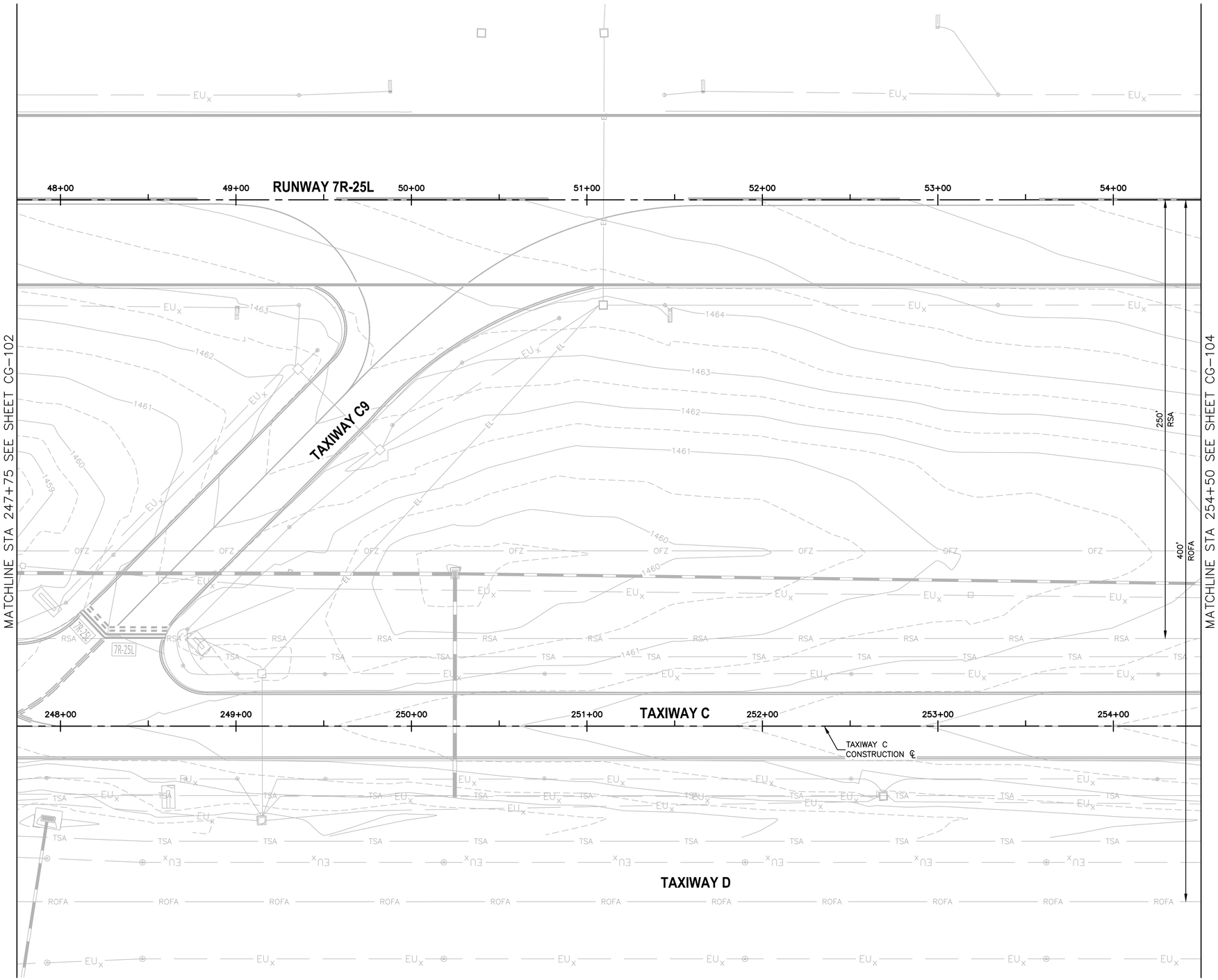
SHEET OVERVIEW TITLE

GRADING & DRAINAGE PLAN

SHEET REFERENCE NUMBER:
CG-102

SHEET 23 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CG-102-GMP1.dwg - Jun 14,2024 11:53am

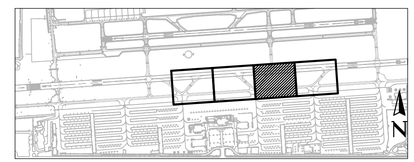


CONSTRUCTION NOTES

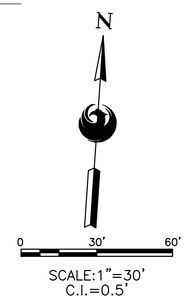
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REFERENCE NOTES

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KEY MAP



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C.I.=0.5'

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

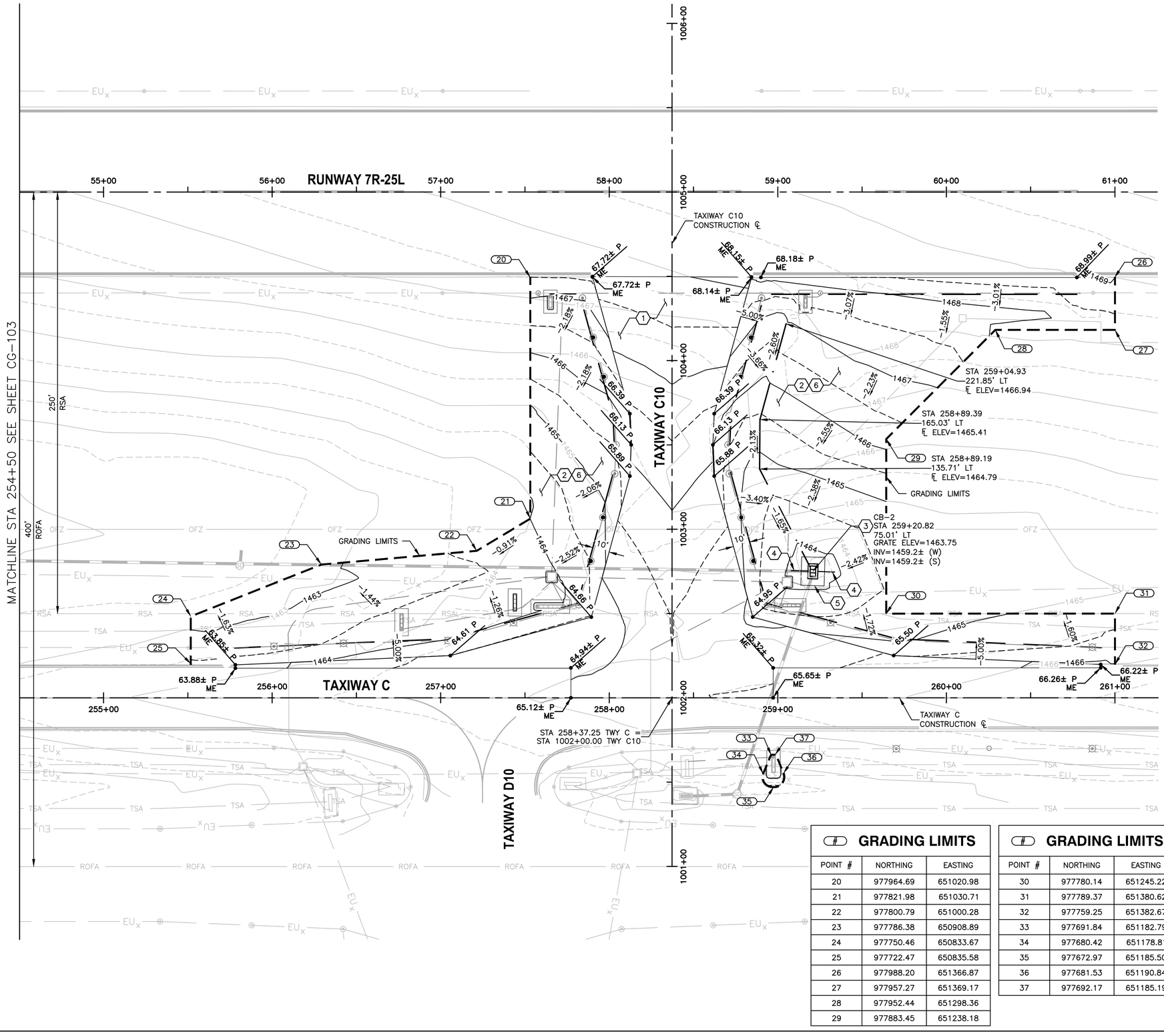
SHEET OVERVIEW TITLE

GRADING & DRAINAGE PLAN

SHEET REFERENCE NUMBER:
CG-103

SHEET 24 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CG-103-GMP1.dwg - Jun 14,2024 11:53am



GRADING LIMITS

#	NORTHING	EASTING
20	977964.69	651020.98
21	977821.98	651030.71
22	977800.79	651000.28
23	977786.38	650908.89
24	977750.46	650833.67
25	977722.47	650835.58
26	977988.20	651366.87
27	977957.27	651369.17
28	977952.44	651298.36
29	977883.45	651238.18

GRADING LIMITS

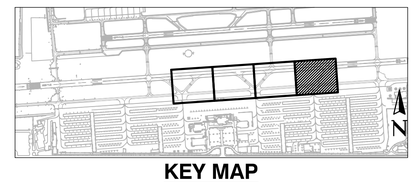
#	NORTHING	EASTING
30	977780.14	651245.22
31	977789.37	651380.62
32	977759.25	651382.67
33	977691.84	651182.79
34	977680.42	651178.81
35	977672.97	651185.50
36	977681.53	651190.84
37	977692.17	651185.19

CONSTRUCTION NOTES

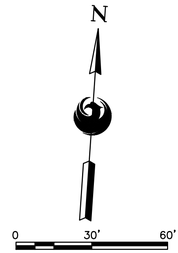
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KEY MAP



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C.I.=0.5'

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ARIZONA811
Call 811 or click Arizona811.com

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034
SUB CONSULTANT

Registered Professional Engineer — 43620 — CHINTAN S. JHAVERI — Date Signed 06/14/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BY
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

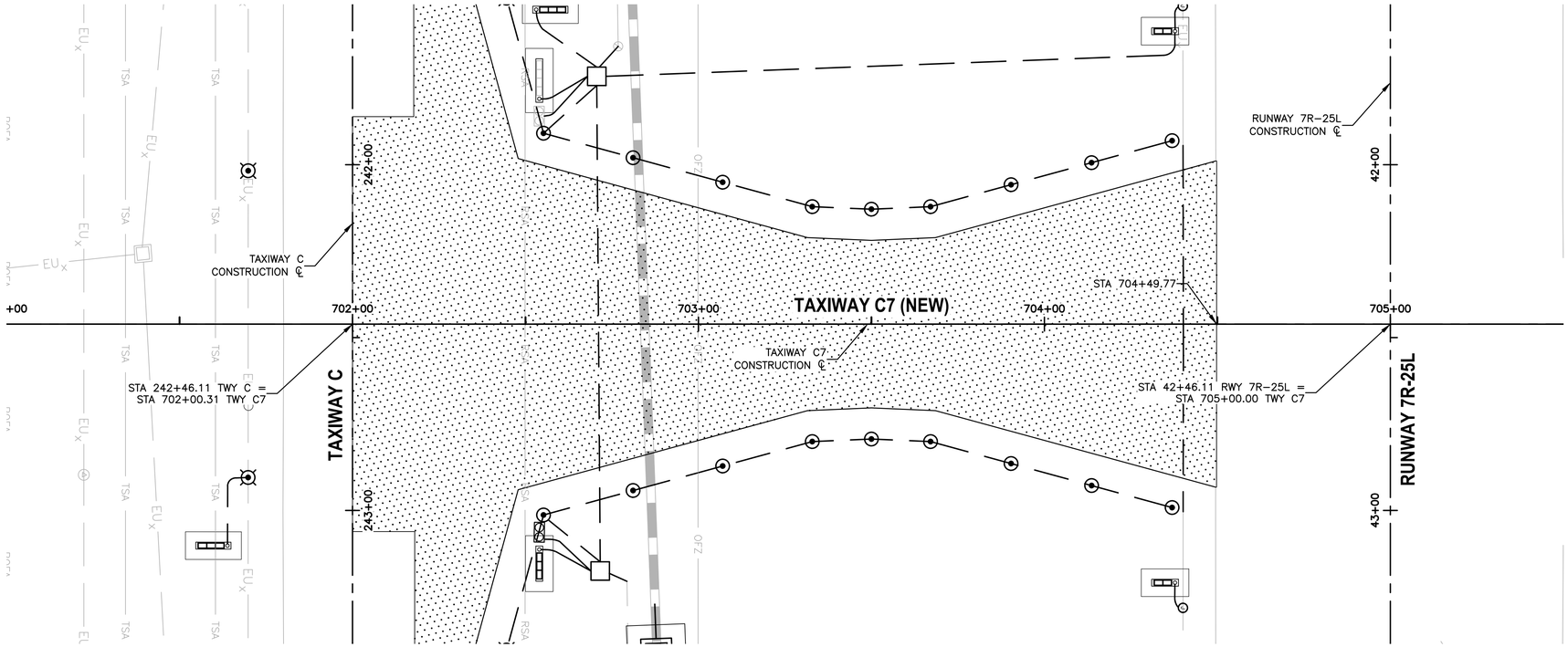
SHEET OVERVIEW TITLE

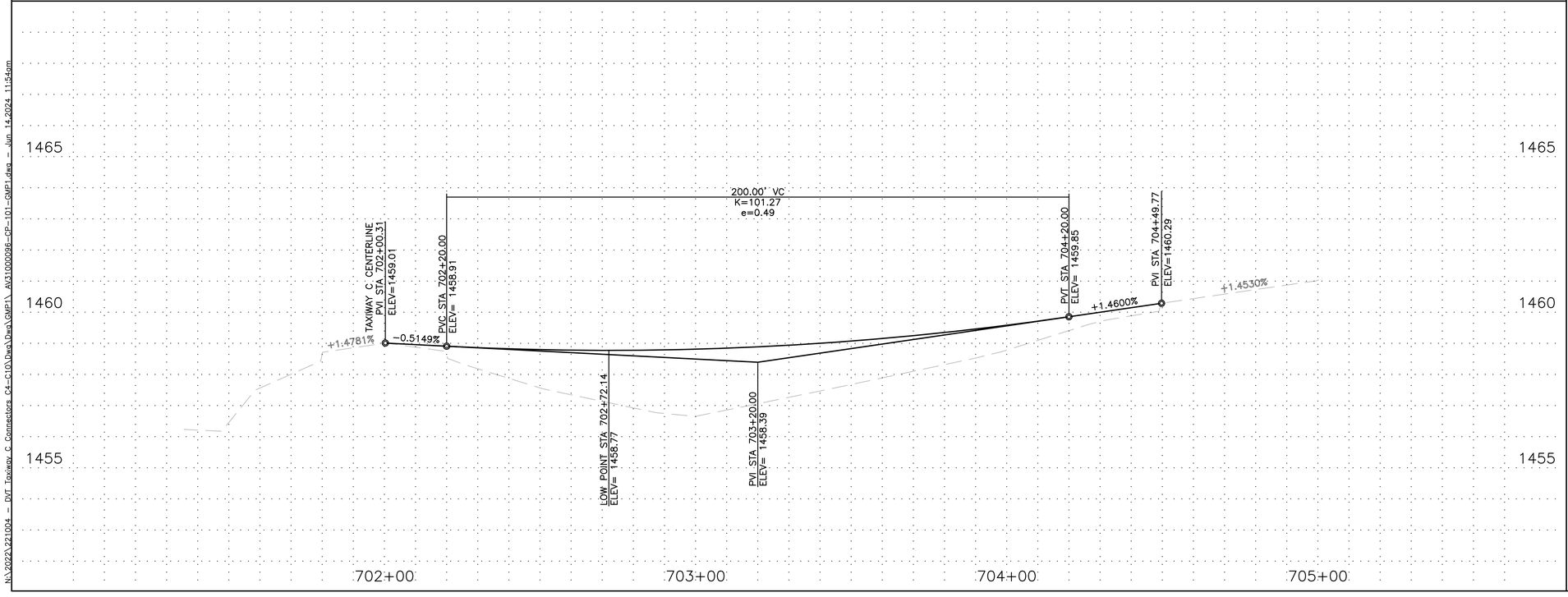
GRADING & DRAINAGE PLAN

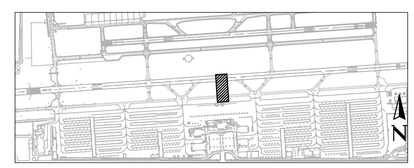
SHEET REFERENCE NUMBER:
CG-104

SHEET 25 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CG-104-GMP1.dwg - Jun 14,2024 11:53am







KEY MAP

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

N
0 20' 40'
HORIZ SCALE:1"=20'
VERT SCALE:1"=2'

PRIME CONSULTANT
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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

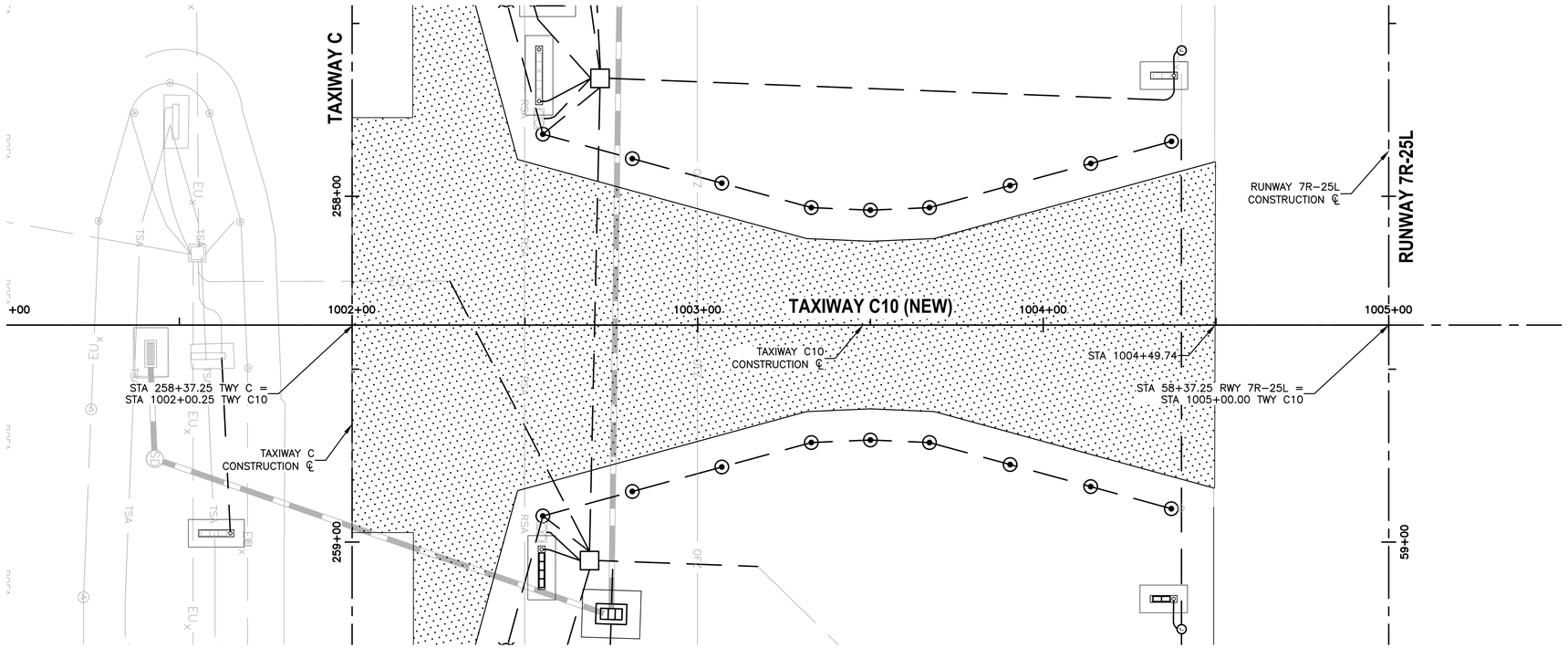
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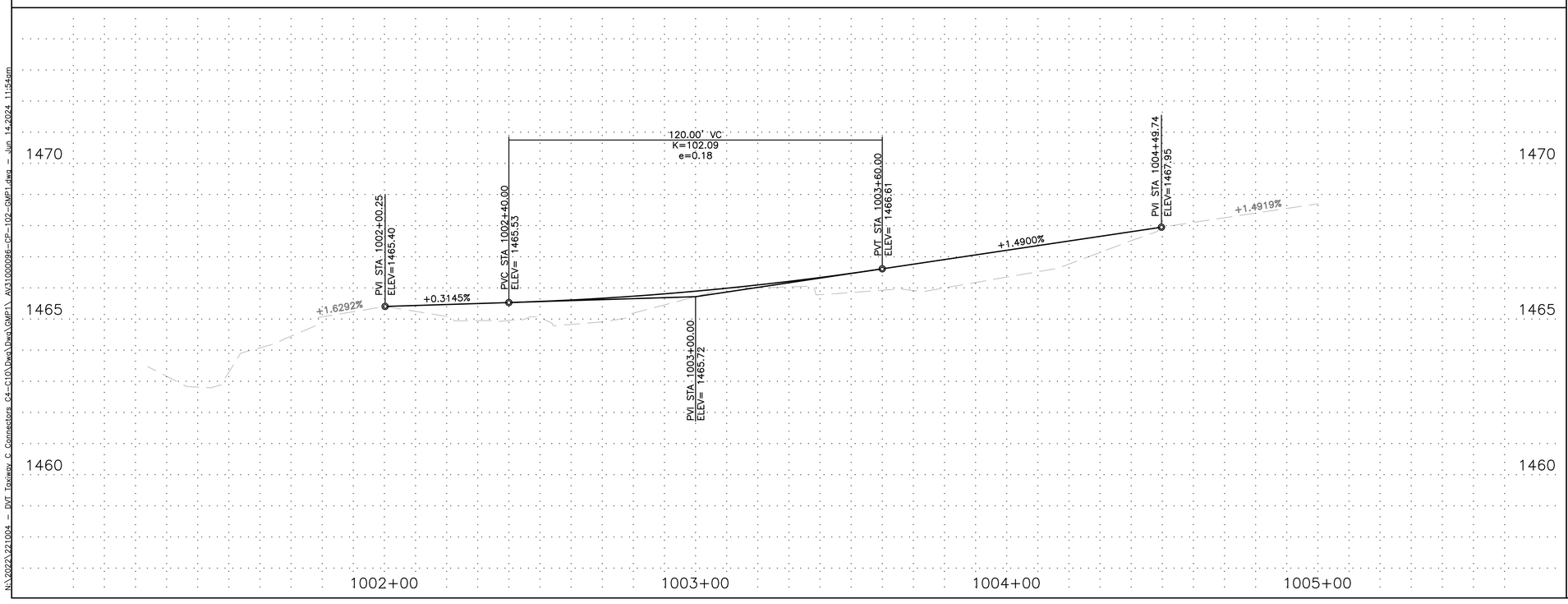
TAXIWAY C7 PLAN & PROFILE

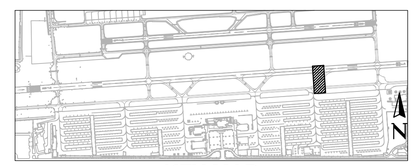
SHEET REFERENCE NUMBER:
CP-101

SHEET 26 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CP-101-GMP1.dwg - Jun 14,2024 11:54am







KEY MAP

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

N

0 20' 40'

HORIZ SCALE:1"=20'
VERT SCALE:1"=2'

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TRACE CONSULTING
1201 E. Jefferson St. | Suite 31 | Phoenix, AZ 85034

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

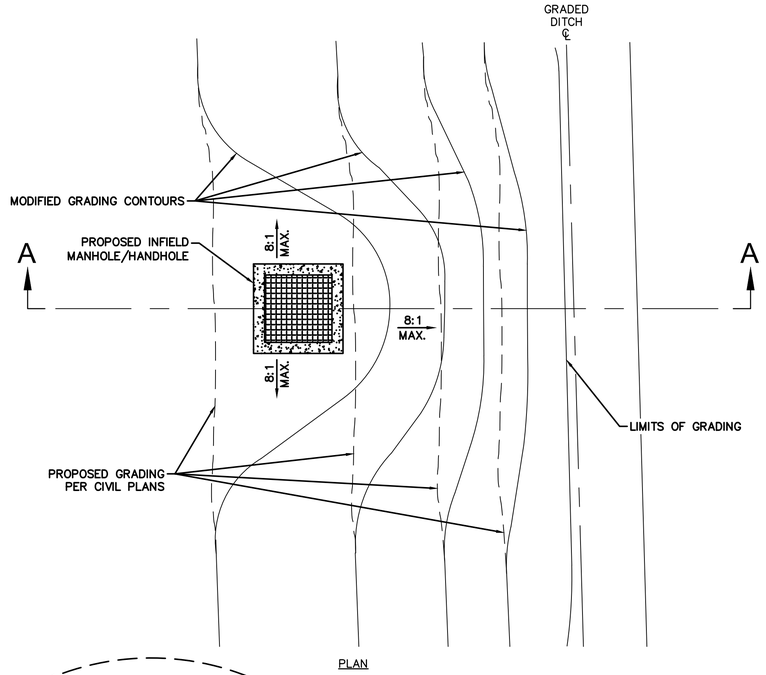
SHEET OVERVIEW TITLE

TAXIWAY C10 PLAN & PROFILE

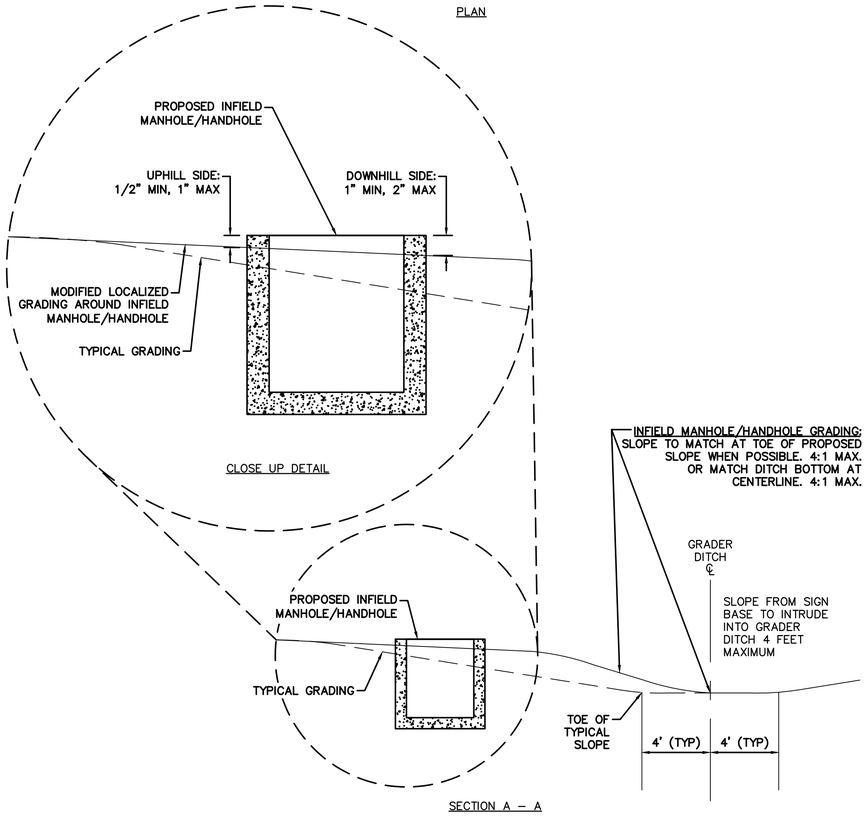
SHEET REFERENCE NUMBER:
CP-102

SHEET 27 OF 56

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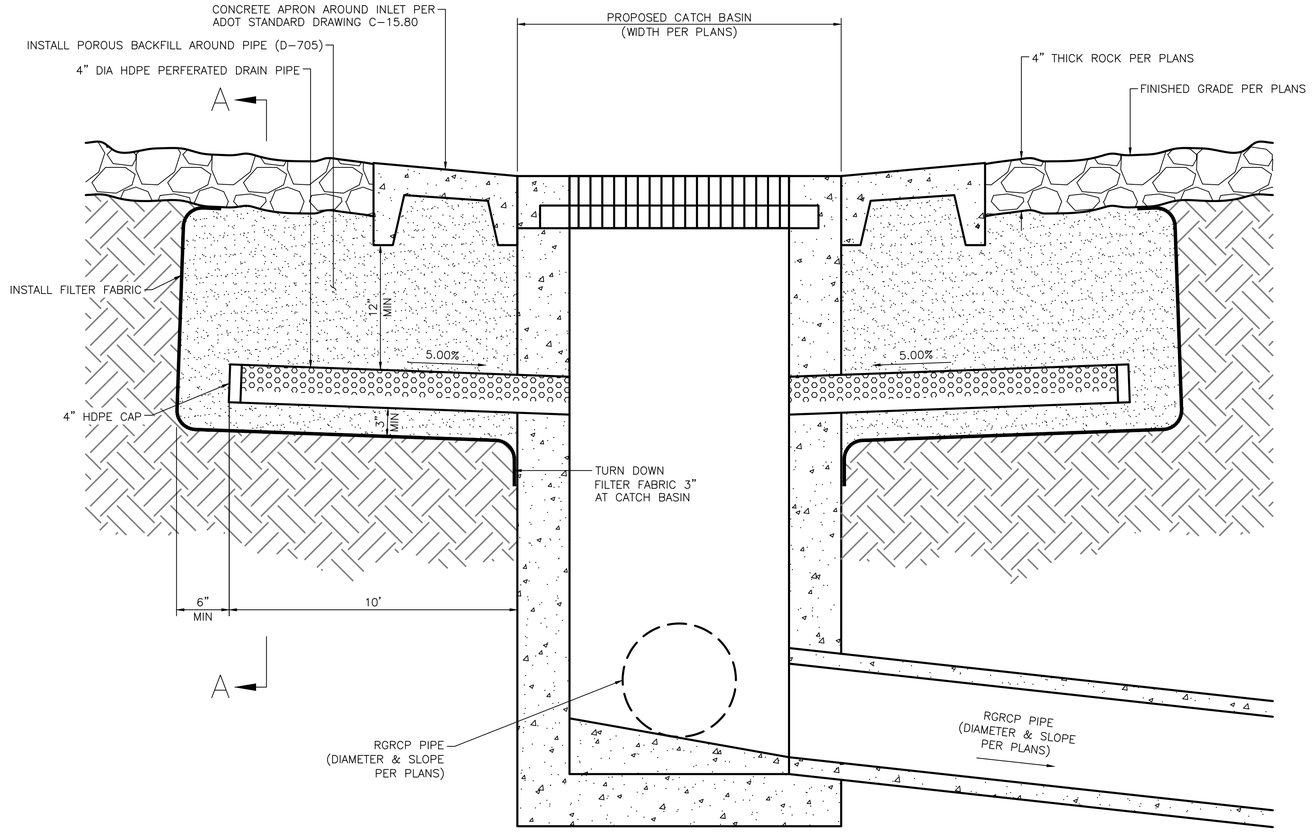


PLAN



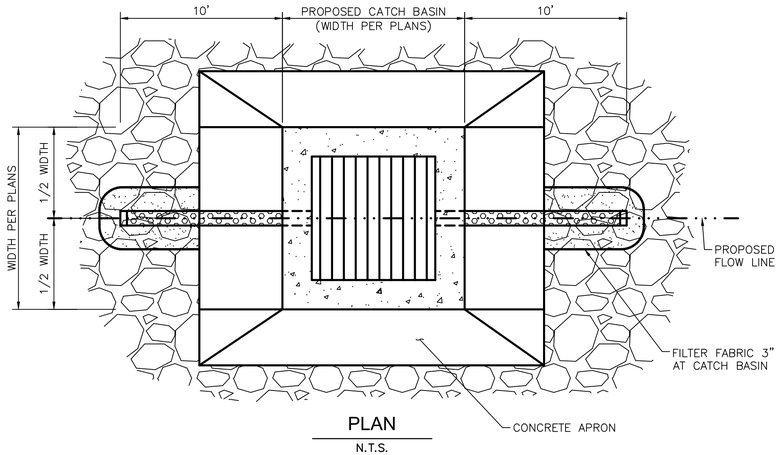
D1 / CU-501 **INFIELD MANHOLE / HANDHOLE LOCALIZED GRADING DETAIL**

NTS



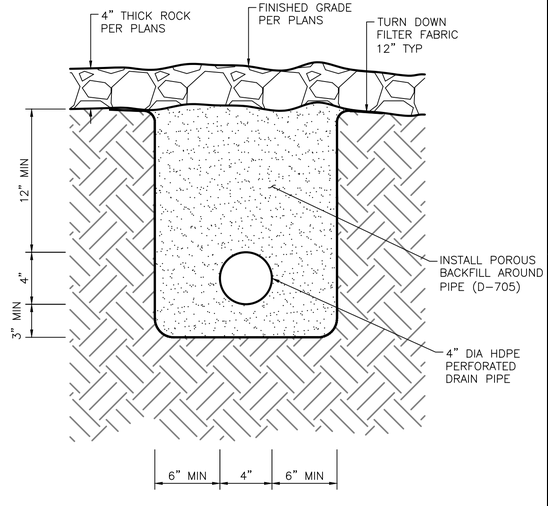
PROFILE

N.T.S.



PLAN

N.T.S.



SECTION "A-A"

N.T.S.

D2 / CU-501 **PERFORATED DRAIN PIPE DETAIL**

NTS

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

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PHX DVT

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

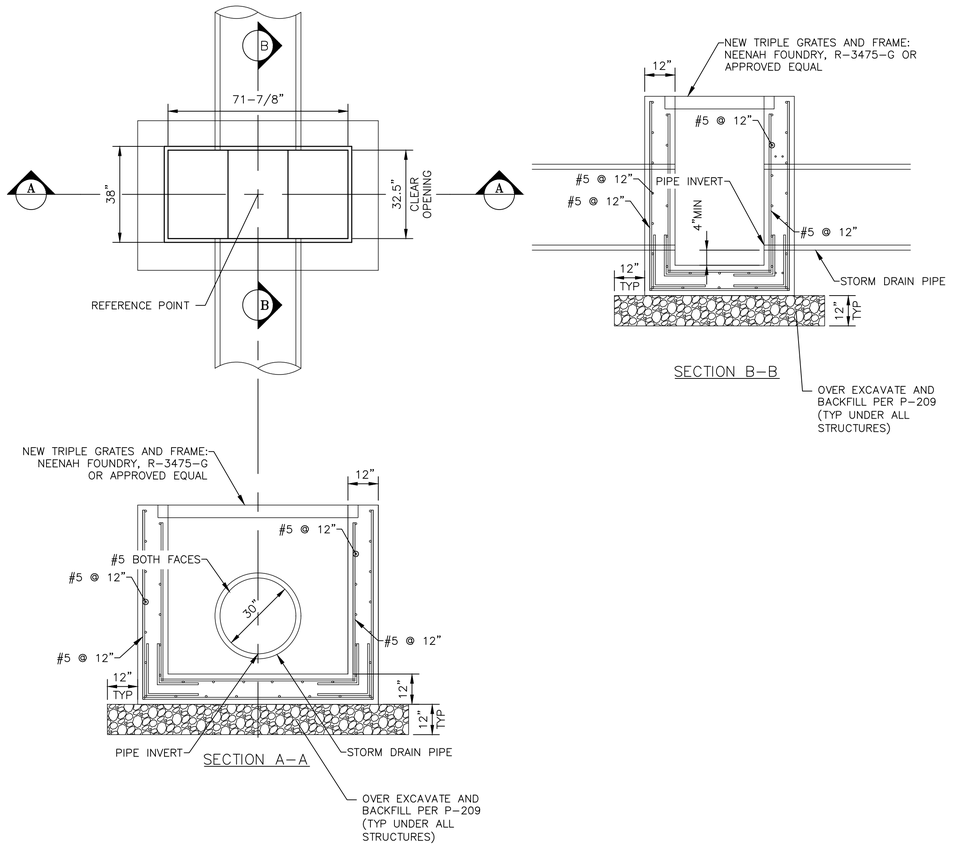
SHEET OVERVIEW TITLE

GRADING & DRAINAGE DETAILS

SHEET REFERENCE NUMBER: **CU-501**

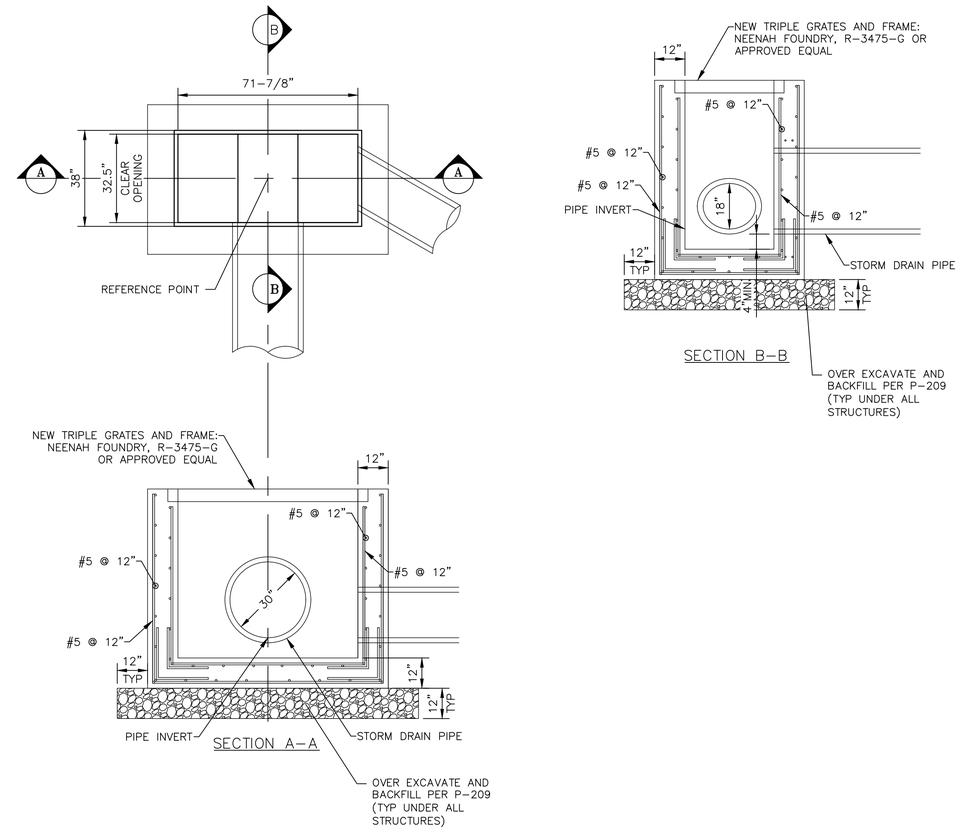
SHEET 28 OF 56

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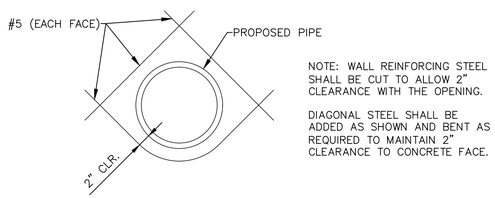
D1 CU-502 **NEW TRIPLE GRATE CATCH BASIN (CB-1)**

NTS



D2 CU-502 **NEW TRIPLE GRATE CATCH BASIN (CB-2)**

NTS



NOTE: WALL REINFORCING STEEL SHALL BE CUT TO ALLOW 2" CLEARANCE WITH THE OPENING.

DIAGONAL STEEL SHALL BE ADDED AS SHOWN AND BENT AS REQUIRED TO MAINTAIN 2" CLEARANCE TO CONCRETE FACE.

D3 CU-502 **PIPE OPENING DETAIL**

NTS

GENERAL NOTES

1. ALL STRUCTURAL CONCRETE SHALL CONFORM TO FAA STANDARD SPEC P-610. DUE TO LOW QUANTITY OF CONCRETE REQUIRED, LOCAL DOT CONCRETE MIXES MAY BE SUBMITTED FOR USE.
2. CONCRETE f'c = 4,000 P.S.I. @ 28 DAYS. MIX DESIGN TO BE APPROVED BY CITY OF PHOENIX PRIOR TO CONSTRUCTION
3. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
4. PROVIDE 2" CLEAR COVER FOR REINFORCING STEEL UNLESS NOTED OTHERWISE.
5. MINIMUM 4" CLEARANCE FROM LARGEST PIPE O.D. TO INSIDE OF STRUCTURE WALL.
6. IF USING A PRECAST STRUCTURE, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY AN ARIZONA LICENSED STRUCTURAL ENGINEER THAT SUPPORT THE AIRCRAFT LOADING REQUIREMENTS.

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DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV3100009G ADOT

Designed by:	GS
Drawn by:	TR
Checked by:	CJ
Date:	06/2024
Dwg scale:	NTS

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

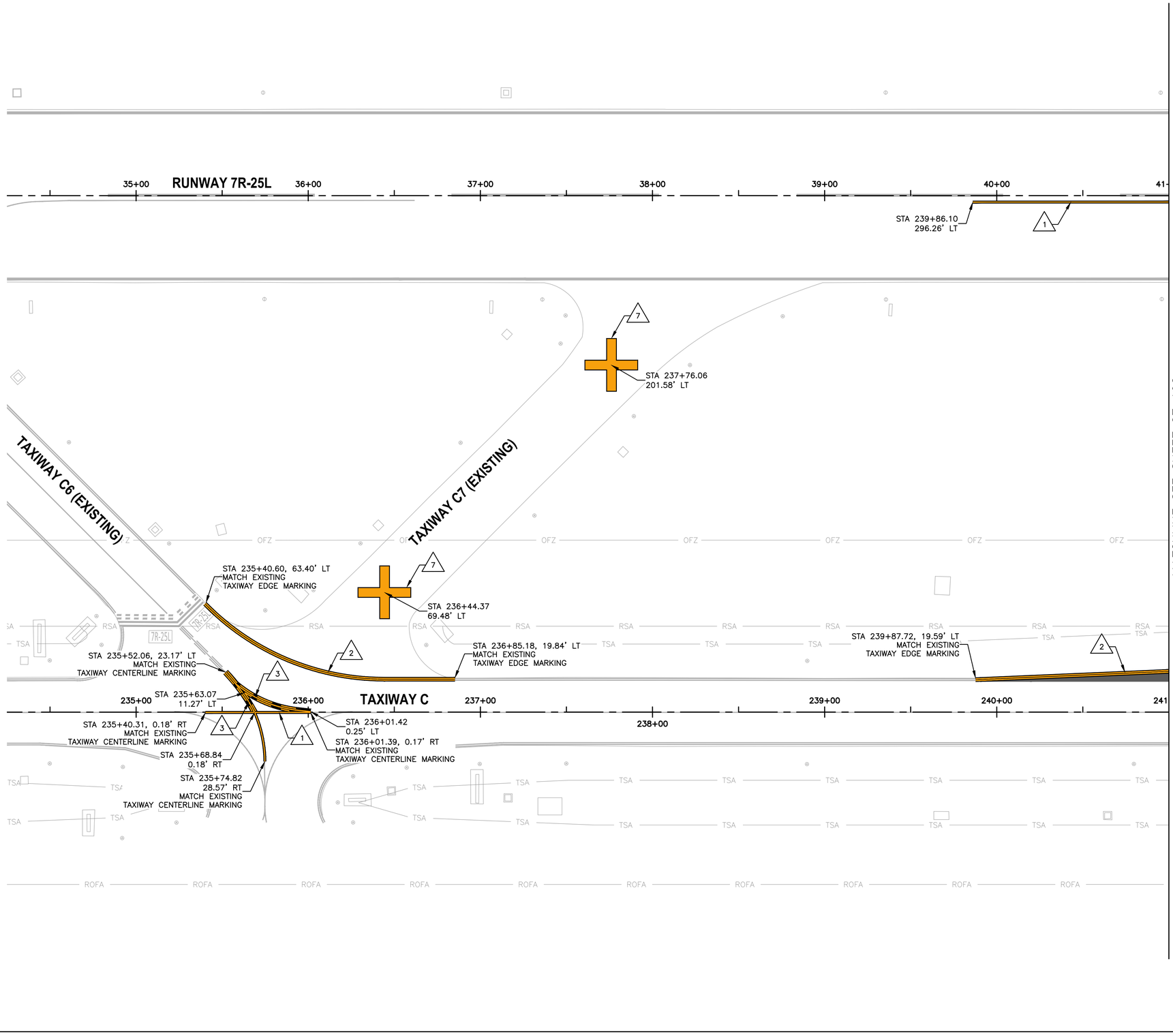
SHEET OVERVIEW TITLE

GRADING & DRAINAGE DETAILS

SHEET REFERENCE NUMBER: **CU-502**

SHEET 29 OF 56

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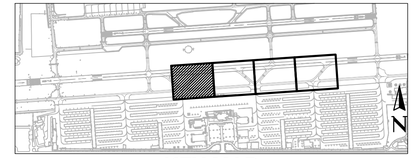


PAVEMENT MARKING NOTES

1. PAINT TAXIWAY CENTERLINE MARKING PER DTL D1, SHEET CT-501
2. PAINT TAXIWAY EDGE MARKING PER DTL D2, SHEET CT-501
3. PAINT ENHANCED TAXIWAY CENTERLINE MARKING PER DTL D3 & D7, SHEET CT-501
7. PAINT TAXIWAY CLOSURE MARKER PER DTL D8, SHEET CT-501

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



SCALE:1"=30'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PRIME CONSULTANT
TRACE CONSULTING
1201 E. Jefferson St | Suite 3 | Phoenix, AZ 85034

SUB CONSULTANT

Registered Professional Engineer
43620
CRISTIAN S. JHAVERI
Date Signed 06/14/24
ARIZONA, U.S.A.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

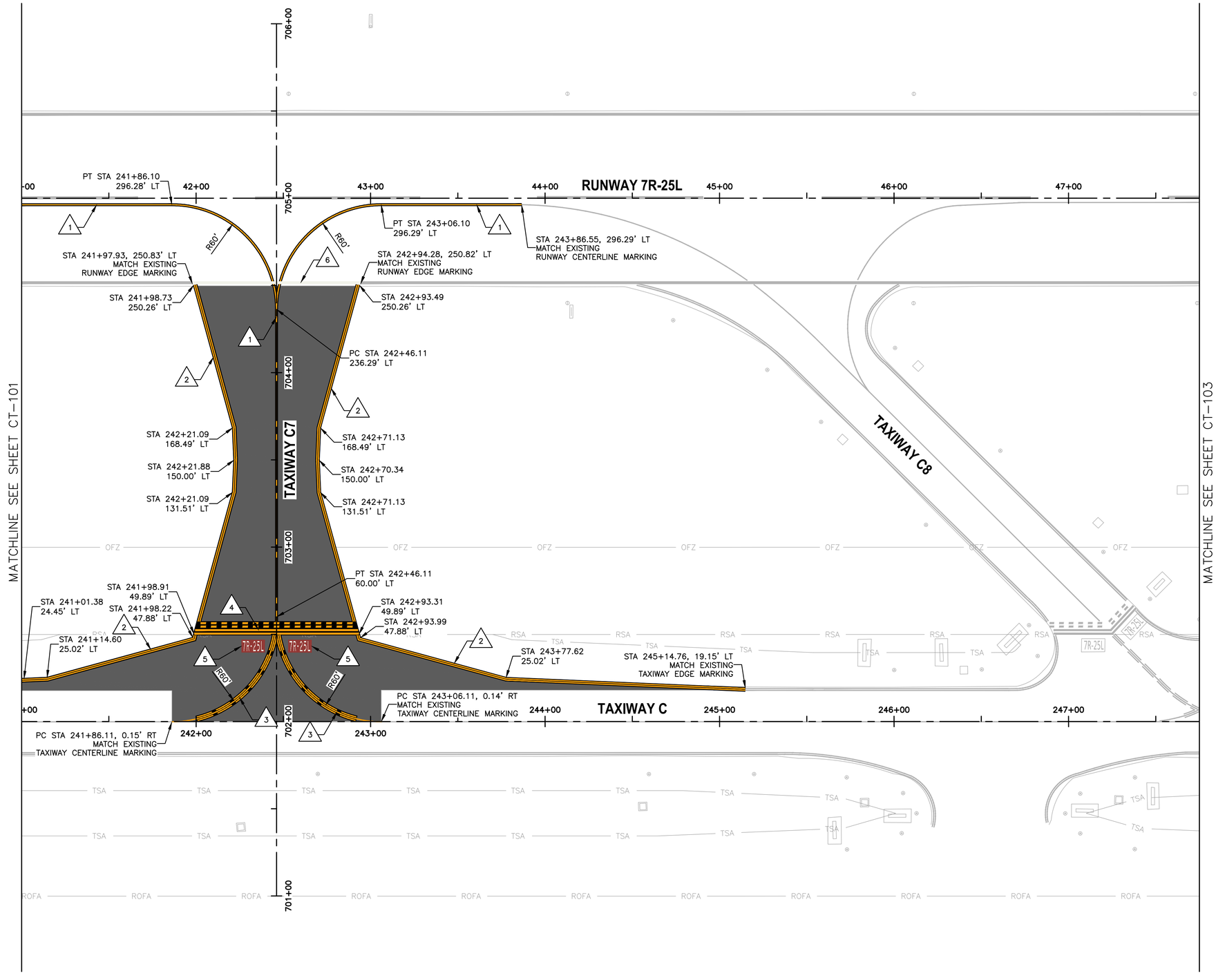
ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE
AIRFIELD MARKING PLAN

SHEET REFERENCE NUMBER:
CT-101

SHEET 30 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CT-101-GMP1.dwg — Jun 14,2024 11:54am

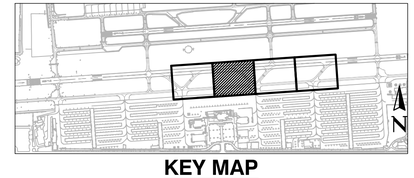


PAVEMENT MARKING NOTES

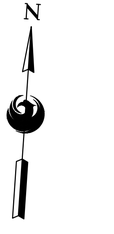
1. PAINT TAXIWAY CENTERLINE MARKING PER DTL D1, SHEET CT-501
2. PAINT TAXIWAY EDGE MARKING PER DTL D2, SHEET CT-501
3. PAINT ENHANCED TAXIWAY CENTERLINE MARKING PER DTL D3 & D7, SHEET CT-501
4. PAINT RUNWAY HOLDING POSITION MARKING PER DTL D4, SHEET CT-501
5. PAINT SURFACE PAINTED HOLDING POSITION SIGN PER DTL D5, SHEET CT-501
6. PAINT RUNWAY EDGE MARKING PER DTL D6, SHEET CT-501

REFERENCE NOTES

1. STATIONING IS BASED ON TWY C CONSTRUCTION ℄ UNLESS OTHERWISE NOTED.



KEY MAP



SCALE:1"=30'

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SUB CONSULTANT

Registered Professional Engineer — 43620 — CHINTAN S. JHAVERI — Date Signed 06/14/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYRIE
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

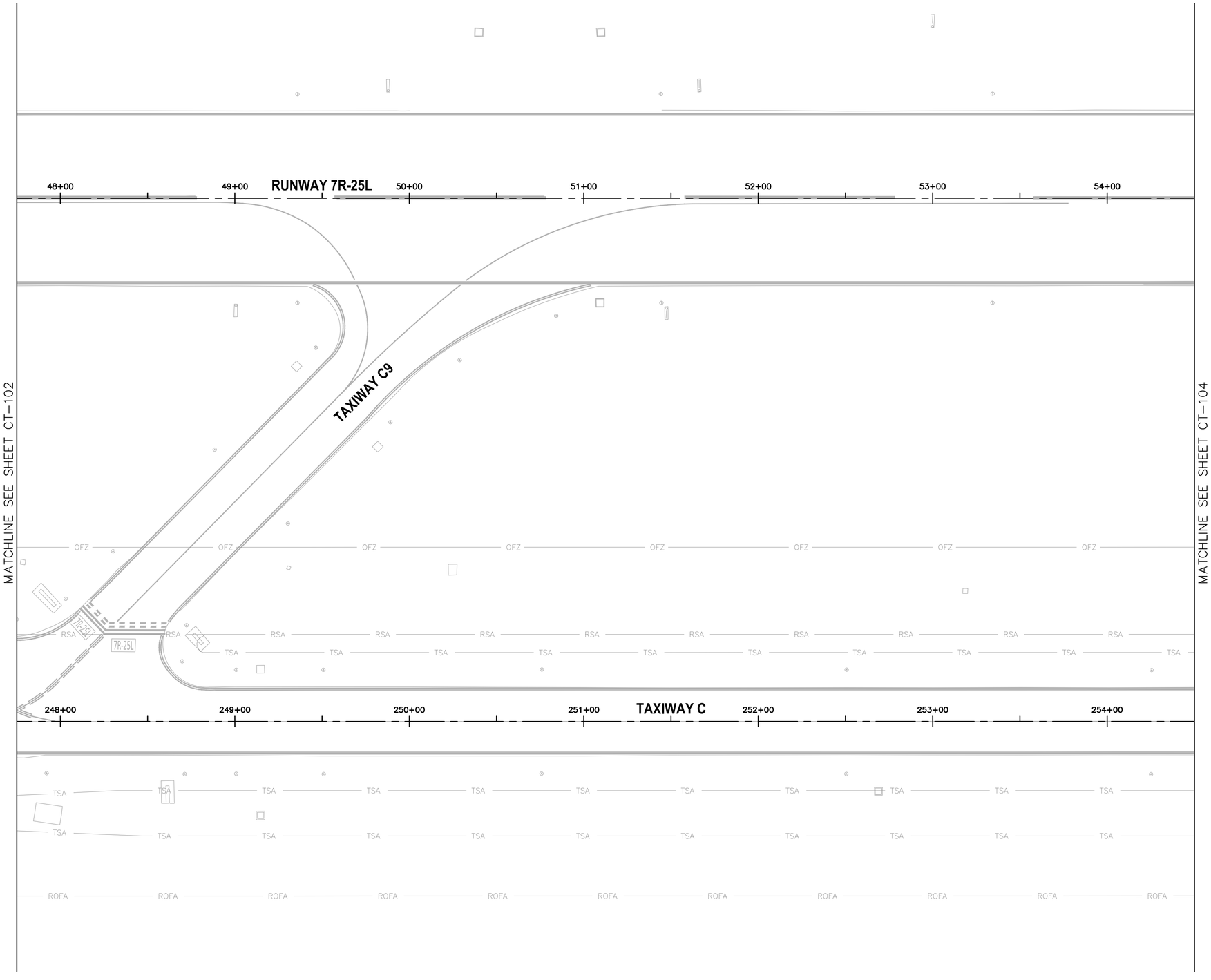
SHEET OVERVIEW TITLE

AIRFIELD MARKING PLAN

SHEET REFERENCE NUMBER: CT-102

SHEET 31 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CT-102-GMP1.dwg — Jun 14,2024 11:55am

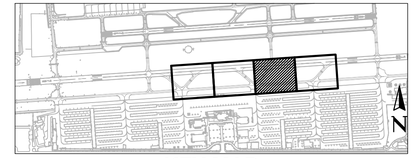


PAVEMENT MARKING NOTES

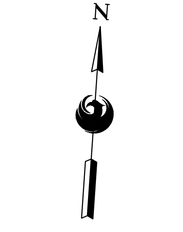
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REFERENCE NOTES

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KEY MAP



0 30' 60'

SCALE:1"=30'

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ARIZONA811
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TRACE CONSULTING
1201 E. Jefferson St | Suite 31 | Phoenix, AZ 85034

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43620
CRISTIAN S. JHAVERI
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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

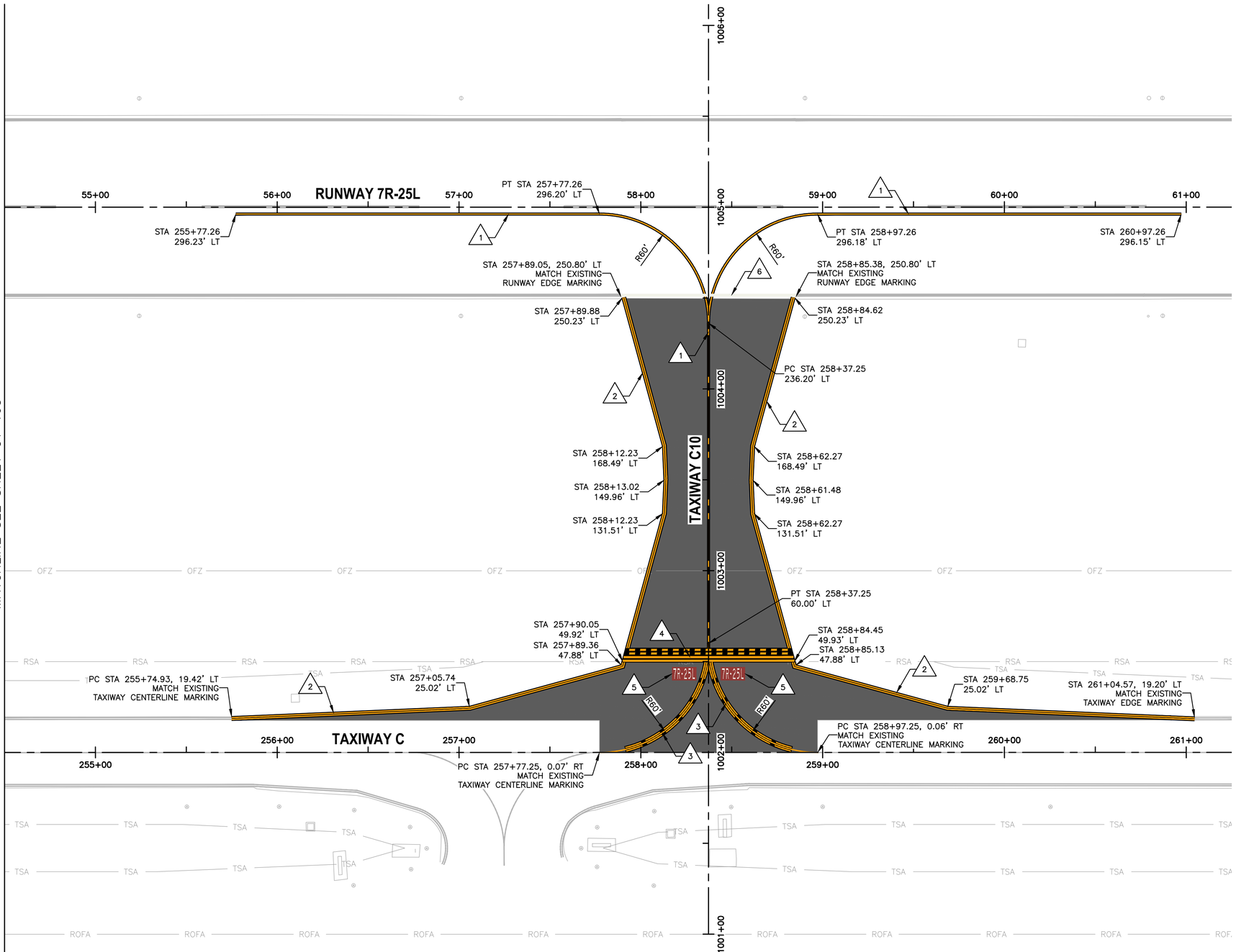
SHEET OVERVIEW TITLE

AIRFIELD MARKING PLAN

SHEET REFERENCE NUMBER:
CT-103

SHEET 32 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CT_103-GMP1.dwg - Jun 14,2024 11:55am

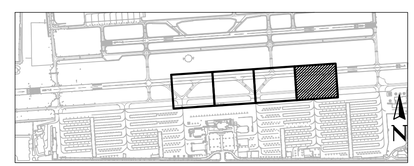


PAVEMENT MARKING NOTES

1. PAINT TAXIWAY CENTERLINE MARKING PER DTL D1, SHEET CT–501
2. PAINT TAXIWAY EDGE MARKING PER DTL D2, SHEET CT–501
3. PAINT ENHANCED TAXIWAY CENTERLINE MARKING PER DTL D3 & D7, SHEET CT–501
4. PAINT RUNWAY HOLDING POSITION MARKING PER DTL D4, SHEET CT–501
5. PAINT SURFACE PAINTED HOLDING POSITION SIGN PER DTL D5, SHEET CT–501
6. PAINT RUNWAY EDGE MARKING PER DTL D6, SHEET CT–501

REFERENCE NOTES

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KEY MAP

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ARIZONA811
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0 30' 60'
SCALE:1"=30'

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034
SUB CONSULTANT

Registered Professional Engineer
43620
CHINTAN S. JHAVERI
Date Signed 06/14/24
ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

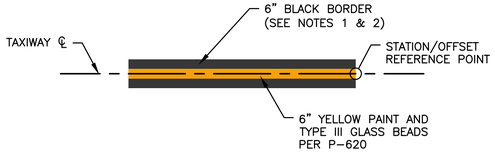
SHEET OVERVIEW TITLE

AIRFIELD MARKING PLAN

SHEET REFERENCE NUMBER: **CT-104**

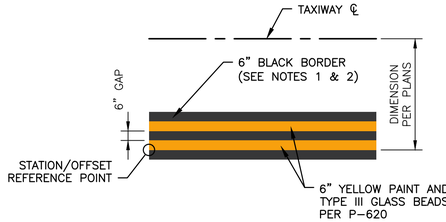
SHEET 33 OF 56

N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096-CT-104-GMP1.dwg - Jun 14,2024 11:55am



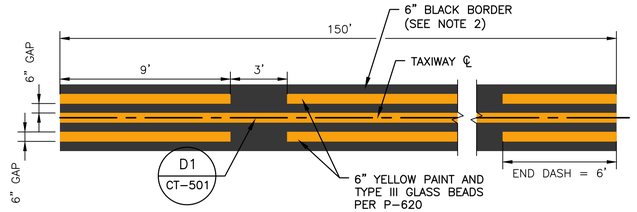
NOTES:
1. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
2. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D1 / CT–501 **TAXIWAY CENTERLINE MARKING**
NTS



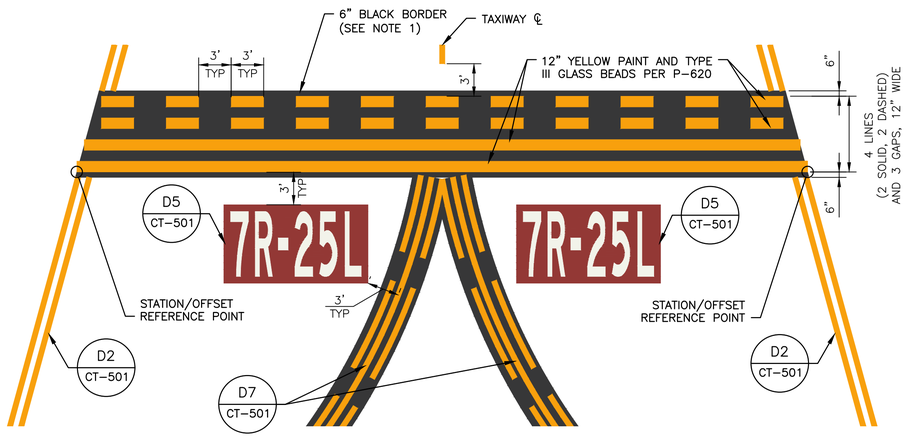
NOTES:
1. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
2. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D2 / CT–501 **CONTINUOUS TAXIWAY EDGE MARKING**
NTS



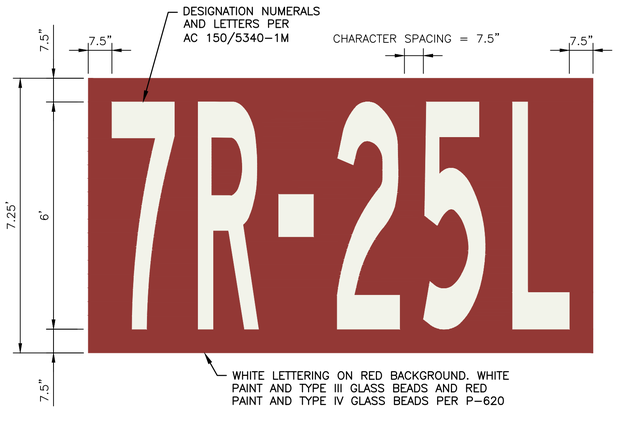
NOTES:
1. ENHANCED TAXIWAY CENTERLINE MARKING DIMENSIONS TAKEN ALONG TAXIWAY CENTERLINE.
2. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
3. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D3 / CT–501 **ENHANCED TAXIWAY CENTERLINE MARKING**
NTS



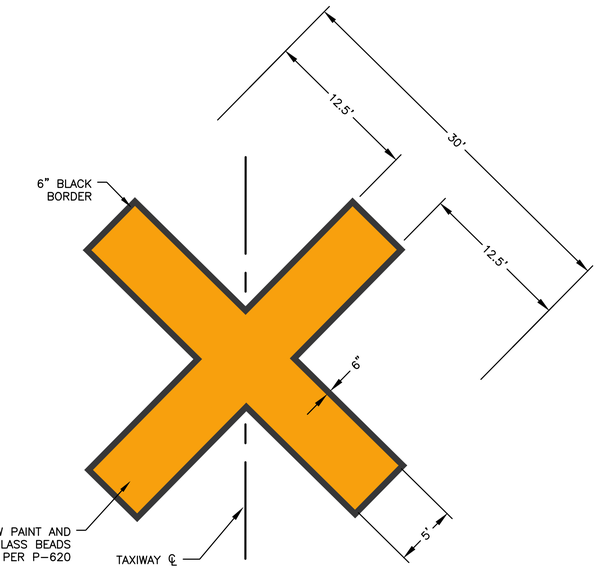
NOTES:
1. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
2. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D4 / CT–501 **RUNWAY HOLDING POSITION MARKING DIMENSIONS**
NTS



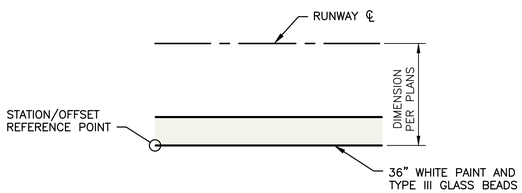
NOTES:
1. 7R–25L SIGN SHOWN FOR REFERENCE, SEE MARKING PLANS FOR INSCRIPTIONS AND LOCATIONS.
2. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
3. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D5 / CT–501 **SURFACE PAINTED HOLDING POSITION SIGN**
NTS



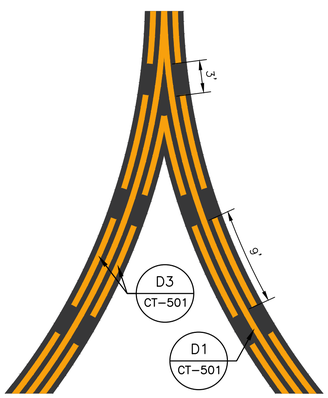
NOTES:
1. CLOSED TAXIWAY MARKINGS SHALL BE YELLOW PAINT. YELLOW MARKINGS SHALL HAVE RETROREFLECTIVE MEDIA.
2. PLACE 50' FROM RUNWAY EDGE WHERE APPLICABLE.
3. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D8 / CT–501 **TAXIWAY CLOSURE MARKING**
NTS



NOTES:
1. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
2. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P–620.

D6 / CT–501 **RUNWAY EDGE MARKING**
NTS



NOTES:
1. IF V–SHAPED INNER DASHES ARE LESS THAN 5 FEET THEY MAY BE OMITTED.
2. MEASUREMENTS ARE TAKEN ALONG THE CENTER OF THE CENTERLINE STRIPE.

D7 / CT–501 **DASHED LINES AT CONVERGING TAXIWAY CENTERLINES**
NTS

GENERAL NOTES

1. FINAL MARKING SHALL ALIGN WITH EXISTING MARKING AT EDGE OF NEW PAVEMENT.
2. LETTERING FOR SURFACE PAINTED HOLDING POSITION SIGNS SHALL BE IN ACCORDANCE WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR NO. 150/5340–1M, APPENDIX B.
3. ALL MARKINGS ARE SUBJECT TO FINAL APPROVAL BY AIRPORT OPERATIONS.
4. PAINT CONTRACTOR TO UTILIZE THE PROVIDED DVT PAINT STENCILS FOR INSTALLATION OF PAVEMENT MARKINGS.
5. OBLITERATE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKING LAYOUT AND CLEARANCES.

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034
SUB CONSULTANT

Registered Professional Engineer — 43820 — CHINTAN S. JHAVERI — Date Signed 06/14/24 — ARIZONA, U.S.A.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: GS
Drawn by: TR
Checked by: CJ
Date: 06/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S):
E2S4V 01C & E353K 01C

SHEET OVERVIEW TITLE
AIRFIELD MARKING DETAILS

SHEET REFERENCE NUMBER:
CT-501

SHEET 34 OF 56

N:\2022\221004 – DVT Taxiway C Connectors C4-C10\Dwg\Dwg\GMP1\ AV31000096–CT–501–GMP1.dwg – Jun 14,2024 11:55am

ELECTRICAL LEGEND:

(UNLESS OTHERWISE NOTED ON PLANS)

EU$_x$	EXISTING ELECTRICAL CONDUIT AND CONDUCTOR
FO	EXISTING FIBER OPTIC DUCTBANK
	PVC W/#8–5KV L–824 TYPE "C" CABLE PER INDICATED LIGHTING CIRCUIT. (QUANTITY AND SIZE AS INDICATED ON PLAN SHEETS)
	CONCRETE ENCASED CONDUIT/DUCTBANK
	EXISTING TAXIWAY EDGE LIGHT
	EXISTING RUNWAY EDGE LIGHT
	EXISTING JUNCTION CAN
	EXISTING AIRFIELD GUIDANCE SIGN
	EXISTING ELECTRICAL HANDHOLE
	EXISTING RUNWAY GUARD LIGHT
	NEW AIRFIELD GUIDANCE SIGN WITH ASPHALT MAINTENANCE PAD
	SALVAGED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH ASPHALT MAINTENANCE PAD
	NEW ELECTRICAL HANDHOLE
	NEW L–861T(L) LED TAXIWAY EDGE LIGHT
	NEW L–861T INCANDESCENT (QUARTZ) ELEVATED TAXIWAY EDGE LIGHT
	NEW OR SALVAGED L–804(L) LED ELEVATED RUNWAY GUARD LIGHT
	SALVAGED L–804(L) LED ELEVATED RUNWAY GUARD LIGHT
J	NEW L–867B (12" DIA) JUNCTION CAN
	NEW L–853 RETROREFLECTIVE TAXIWAY EDGE MARKER
	EXISTING L–867 BASE CAN WITH STEEL COVER

ADVISORY CIRCULARS FOR AIRPORT PROJECTS (MOST RECENT VERSION):

150/5340–18	STANDARDS FOR AIRPORT SIGN SYSTEMS
150/5340–30	DESIGN & INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS
150/5345–7	SPECIFICATION FOR L–824 UNDERGROUND ELECTRICAL CABLE FOR AIRPORT LIGHTING CIRCUITS
150/5345–26	SPECIFICATION FOR L–823 PLUG AND RECEPTACLE, CABLE CONNECTORS
150/5345–42	SPECIFICATION FOR AIRPORT LIGHT BASES, TRANSFORMER HOUSINGS, JUNCTION BOXES, AND ACCESSORIES
150/5345–44	SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS
150/5345–46	SPECIFICATION FOR RUNWAY AND TAXIWAY LIGHT FIXTURES
150/5345–47	SPECIFICATION FOR SERIES TO SERIES ISOLATION TRANSFORMERS FOR AIRPORT LIGHTING SYSTEMS
150/5345–53	AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM
150/5370–2	OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION
150/5370–10	STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS
ADDENDUM	AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM (PUBLISHED MONTHLY AND LISTING APPROVED SUPPLIERS)

ELECTRICAL ABBREVIATIONS:

ALCMS	AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM
APS	ARIZONA PUBLIC SERVICE
BCC	BARE COPPER GROUND
CCR	CONSTANT CURRENT REGULATOR
CE	CONCRETE ENCASED
CKT	CIRCUIT
DCME	DIGITAL CONTROL MONITORING EQUIPMENT
FAA	FEDERAL AVIATION ADMINISTRATION
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDPE	HIGH DENSITY POLYETHYLENE
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
NPI	NON–PAY ITEM
PAPI	PRECISION APPROACH PATH INDICATOR
PVC	POLY–VINYL CHLORIDE
REIL	RUNWAY END IDENITIFIER LIGHT
RGL	RUNWAY GUARD LIGHT
RVCN	REDUNDANT VAULT COMMUNICATIONS NETWORK
SE	SLURRY ENCASED
SGN	SIGN
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY

◇ CIRCUIT IDENTIFICATION ◇

1. RW 7R/25L
2. RW 7L/25R
3. RGL 7R
4. RGL 7L
5. TAXIWAY A
6. TAXIWAY B EAST
7. TAXIWAY B WEST
8. TAXIWAY C EAST
9. TAXIWAY C WEST
10. TAXIWAY D
11. PAPI 7R
12. PAPI 25L
13. PAPI 7L
14. PAPI 25R
15. REIL 7R
16. REIL 25L
17. REIL 7L
18. REIL 25R
19. PRIMARY WINDCONE

ELECTRICAL SHEET INDEX

EA–001	ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX
EA–002	ELECTRICAL NOTES
ED–101 – ED–104	AIRFIELD ELECTRICAL DEMOLITION PLANS
EA–101 – EA–104	AIRFIELD LIGHTING AND ELECTRICAL PLANS
EA–501	ELECTRICAL DETAILS – CONDUIT DUCTBANKS AND DUCT MARKER
EA–502	ELECTRICAL DETAILS – COUNTERPOISE AND GROUNDING
EA–503	ELECTRICAL DETAILS – 4'x4'x4' HANDHOLE
EA–504	ELECTRICAL DETAILS – JUNCTION CAN
EA–506	ELECTRICAL DETAILS – NEW CAST–IN–PLACE CONCRETE BASE FOR AIRFIELD GUIDANCE SIGN
EA–506	ELECTRICAL DETAILS – NEW CAST–IN–PLACE CONCRETE BASE FOR MULTIPLE–SECTIONED AIRFIELD GUIDANCE SIGN
EA–507	ELECTRICAL DETAILS – L–858 AIRFIELD GUIDANCE SIGN AND 5KV CABLE SPLICE
EA–508	ELECTRICAL DETAILS – ELEVATED TAXIWAY EDGE LIGHT
EA–509	ELECTRICAL DETAILS – RUNWAY GUARD LIGHT
EA–601	AIRFIELD GUIDANCE SIGN SCHEDULE
EA–602	EQUIPMENT DATA TABLES
EA–603	EQUIPMENT DATA TABLES

PRIME CONSULTANT
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CR engineers
16719 East Palisades Blvd., Suite 202
Fountain Hills, AZ 85268
Phone: (480) 816-5541
Fax: (480) 816-5540
www.crengi.com

Professional Engineer (Electrical) CERTIFICATE NO. 36696 CATHERINE M. ALCORN Date Signed 6.14.24

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX

SHEET REFERENCE NUMBER: EA-001

SHEET 35 OF 56

Q:\PROJECTS\22000\22002 DVT Txy C Connectors C4-C10\CAD\CAD SHEETS\ 22002 EA-001 - GMP1.dwg - Jun 13,2024 7:41pm

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.

ELECTRICAL DEMOLITION GENERAL NOTES

1. WITHIN AREAS OF DEMOLITION AND AS OTHERWISE SHOWN, REMOVE IDENTIFIED SIGN BASES, ISOLATION TRANSFORMERS AND OTHER INDICATED ITEMS.
2. CABLE REMOVAL
   A. DIRECT BURIAL: REMOVE FROM WITHIN MANHOLES AND HANDHOLES AND REMOVE IN AREAS WHERE EXCAVATION REQUIRES DISTURBING, ABANDON ELSEWHERE.
   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 MANHOLE OR HANDHOLE OUTSIDE DEMOLITION AREA.
4. SIGNS AND/OR SIGN BASES, 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. UNLESS OTHERWISE NOTED, ALL REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES. REMOVED LIGHT FIXTURE AND SIGNS NOT DESIGNATED FOR RE–INSTALLATION SHALL BE OFFERED TO AIRPORT FOR RETURN UNLESS OTHERWISE NOTED.
7. 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.
8. EXISTING SIGNS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. TEMPORARY CONNECTIONS TO EXISTING SIGNS REQUIRED DURING RELOCATION. TEMPORARY MOUNTING OF EXISTING SIGNS REQUIRED WHERE NEW LOCATION CONFLICTS WITH EXISTING LOCATION.

ELECTRICAL CONSTRUCTION PHASING NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT MAINTENANCE, AIRPORT OPERATIONS, AND THE ENGINEER AS NECESSARY.
2. CONTRACTOR SHALL GIVE 48 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 FIXTURES, TRANSFORMERS, BASES, CONDUIT, L–824 CABLE & L–823 SPLICE KITS. THESE ITEMS WILL NOT BE AVAILABLE FROM DVA MAINTENANCE SHOP.
4. THE CONTRACTOR SHALL MAINTAIN QUALIFIED PERSONNEL 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.
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. SEE PHASING PLANS FOR PLACEMENT OF SIGN COVERS.
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" 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 PROJECT.

AIRFIELD LIGHT LOCKOUT/TAGOUT POLICY

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

1. DEER VALLEY ELECTRICIANS RESPONDING TO A LOCK–OUT/TAG–OUT REQUEST WILL COORDINATE WITH THE ATCT THROUGH OPERATIONS.
2. AFTER OPERATIONS NOTIFIES ELECTRICIANS OF CLOSURES, THE DEER VALLEY ELECTRICIANS WILL TURN OFF THE CLOSED RUNWAYS/TAXIWAYS USING THE AIRFIELD COMPUTER SYSTEM.
3. THE CONTRACTOR WILL SUPPLY AN APPROVED BREAKER–LOCKING DEVICE AND LOCK, THEN LOCK OF THE INDIVIDUAL BREAKERS FOR THE CIRCUITS TO BE LOCKED OUT. THESE ITEMS WILL REMAIN IN THE VAULTS IN A LOCK BOX PROVIDED BY DEER VALLEY ELECTRICAL SECTION.
4. DEER VALLEY ELECTRIC SECTION WILL LOCK THE PANEL DOORS SHUT WITH A HASP AND AN ELECTRICAL SECTION LOCK.
5. THE S–1 CUTOUTS WILL BE PULLED, LOCKED AND PLACED ON THE CORRESPONDING REGULATOR BY THE ELECTRICAL CONTRACTOR.
6. THE ELECTRICAL CONTRACTOR AND DEER VALLEY ELECTRICIANS MUST FILL OUT LOCK–OUT FORMS BEFORE LEAVING THE VAULT.
7. 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.
8. WHEN THAT HAS BEEN COMPLETED, DEER VALLEY ELECTRICIANS WILL NOTIFY OPERATIONS WHEN LOCK–IN IS COMPLETE AND REGULATORS ARE IN REMOTE CONTROL; OPERATIONS WILL NOTIFY THE ATCT THAT HAVE CONTROL OF THE AIRFIELD LIGHTING.
9. COMPLETE LOCK–OUT/LOCK–IN FORMS.

*THIS PROCEDURAL CHECKLIST MUST BE FOLLOWED TO THE LETTER.

PRIME CONSULTANT: TRACE CONSULTING, 101 E. Jefferson St. | Suite 3 | Phoenix, AZ 85004

SUB CONSULTANT: CR engineers, 16719 East Palisades Blvd., Suite 202, Fountain Hills, AZ 85268, Phone: (480) 816-5541, Fax: (480) 816-5540, www.creng.com

Certificate of Authorization Expiration Date: 12/31/2025 — Registered Professional Engineer (Electrical) — CATHERINE M. ALCORN — 36696 — Date Signed 6/14/2024

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYR — CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

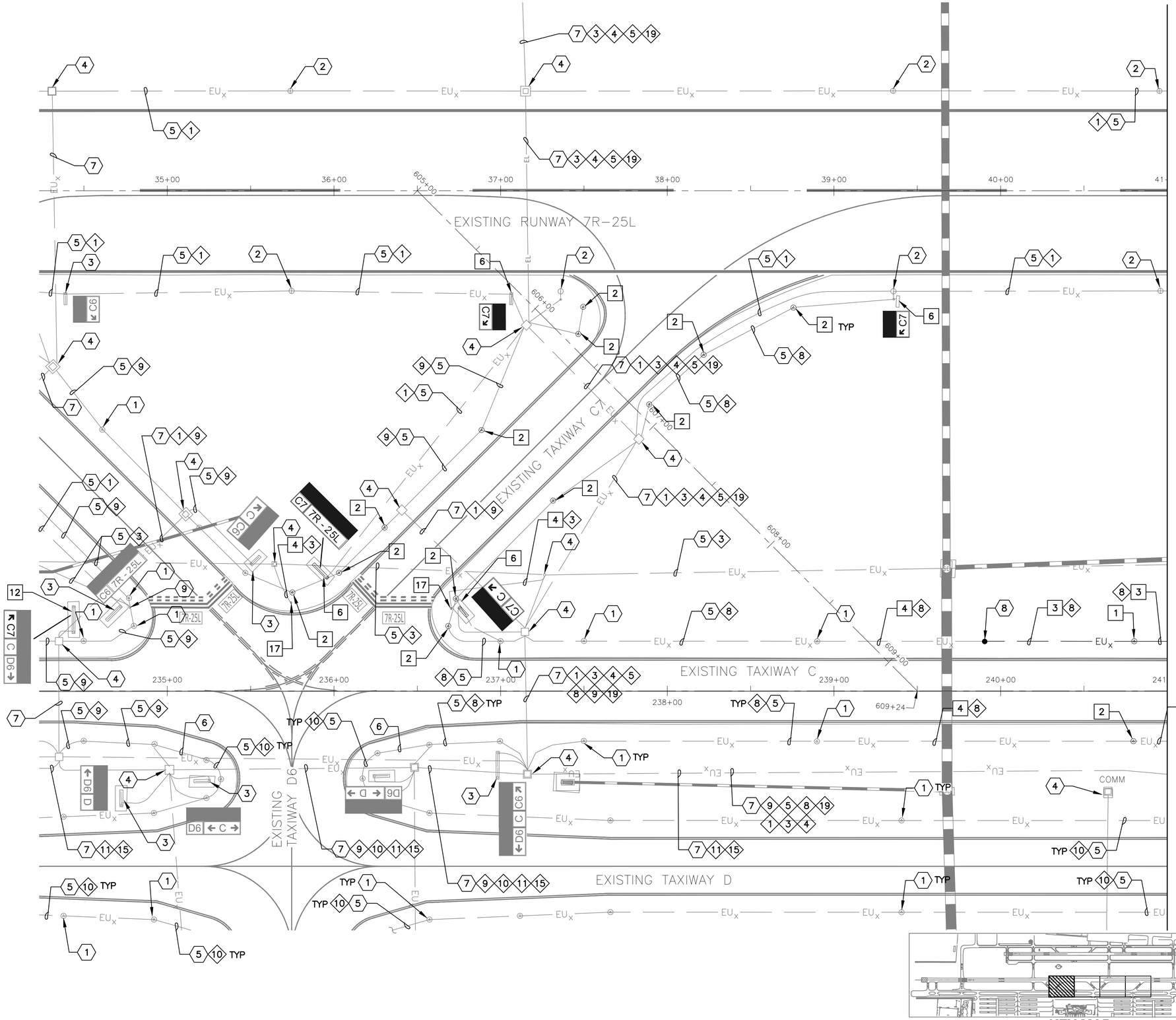
ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

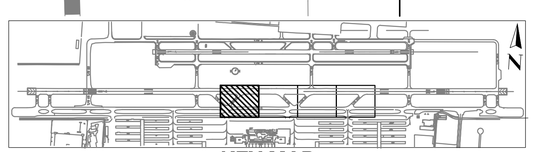
SHEET OVERVIEW TITLE: ELECTRICAL NOTES

SHEET REFERENCE NUMBER: EA-002

SHEET 36 OF 56

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KEY MAP

DEMOLITION NOTES

1. REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER – REMOVE BASE CAN (1 TOTAL)
2. REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER – BASE CAN TO REMAIN (13 TOTAL)
3. EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR (115 LF TOTAL)
4. REMOVE EXISTING CONDUCTOR – CONDUIT TO REMAIN (410 LF TOTAL)
6. REMOVE AND SALVAGE EXISTING AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER – SIGN BASE TO REMAIN (4 TOTAL)
12. REMOVE AND SALVAGE EXISTING SIGN PANELS FROM EXISTING AIRFIELD GUIDANCE SIGN (2 TOTAL)
17. REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER – BASE CAN TO REMAIN (2 TOTAL)

REFERENCE NOTES

1. EXISTING TAXIWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
2. EXISTING RUNWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
3. EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN – PROTECT IN PLACE
4. EXISTING HANDHOLE OR JUNCTION CAN TO REMAIN – PROTECT IN PLACE
5. EXISTING CONDUIT AND CONDUCTOR TO REMAIN – PROTECT IN PLACE
7. EXISTING DUCTBANK – PROTECT IN PLACE
8. APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
9. EXISTING ELEVATED RGL FIXTURE TO REMAIN – PROTECT IN PLACE
12. COORDINATE WITH AIRPORT FOR LOCKOUT–TAGOUT OF AFFECTED CIRCUIT(S)

CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA–001.

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Registered Engineer (Electrical) – CERTIFICATE NO. 36896 – CATHERINE M. ALCORN – Date Signed 4-30-24 – Not Valid Unless Signed

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

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Checked by: CA
Date: 06/14/2024
Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

AIRFIELD ELECTRICAL DEMOLITION PLAN

SHEET REFERENCE NUMBER: ED-101

SHEET 37 OF 56

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MATCHLINE – SEE SHEET ED-101

MATCHLINE – SEE SHEET ED-103

EXISTING RUNWAY 7R-25L

EXISTING TAXIWAY C

EXISTING TAXIWAY D

EXISTING TAXIWAY C8

EXISTING TAXIWAY D7

(24–2"C)

DEMOLITION NOTES

1. REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER – REMOVE BASE CAN (2 TOTAL)
2. REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER – BASE CAN TO REMAIN (1 TOTAL)
3. EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR (530 LF TOTAL)
4. REMOVE EXISTING CONDUCTOR – CONDUIT TO REMAIN (445 LF TOTAL)
8. REMOVE AND EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER – REMOVE BASE CAN (1 TOTAL)

REFERENCE NOTES

1. EXISTING TAXIWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
2. EXISTING RUNWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
3. EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN – PROTECT IN PLACE
4. EXISTING HANDHOLE OR JUNCTION CAN TO REMAIN – PROTECT IN PLACE
5. EXISTING CONDUIT AND CONDUCTOR TO REMAIN – PROTECT IN PLACE
7. EXISTING DUCTBANK – PROTECT IN PLACE
8. APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
12. COORDINATE WITH AIRPORT FOR LOCKOUT–TAGOUT OF AFFECTED CIRCUIT(S)

CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA–001.

KEY MAP

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SCALE:1"=30'

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Professional Engineer (Electrical) CERTIFICATE NO. 36696 CATHERINE M. ALCORN, Date Signed 6/14/2024

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYPASS

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

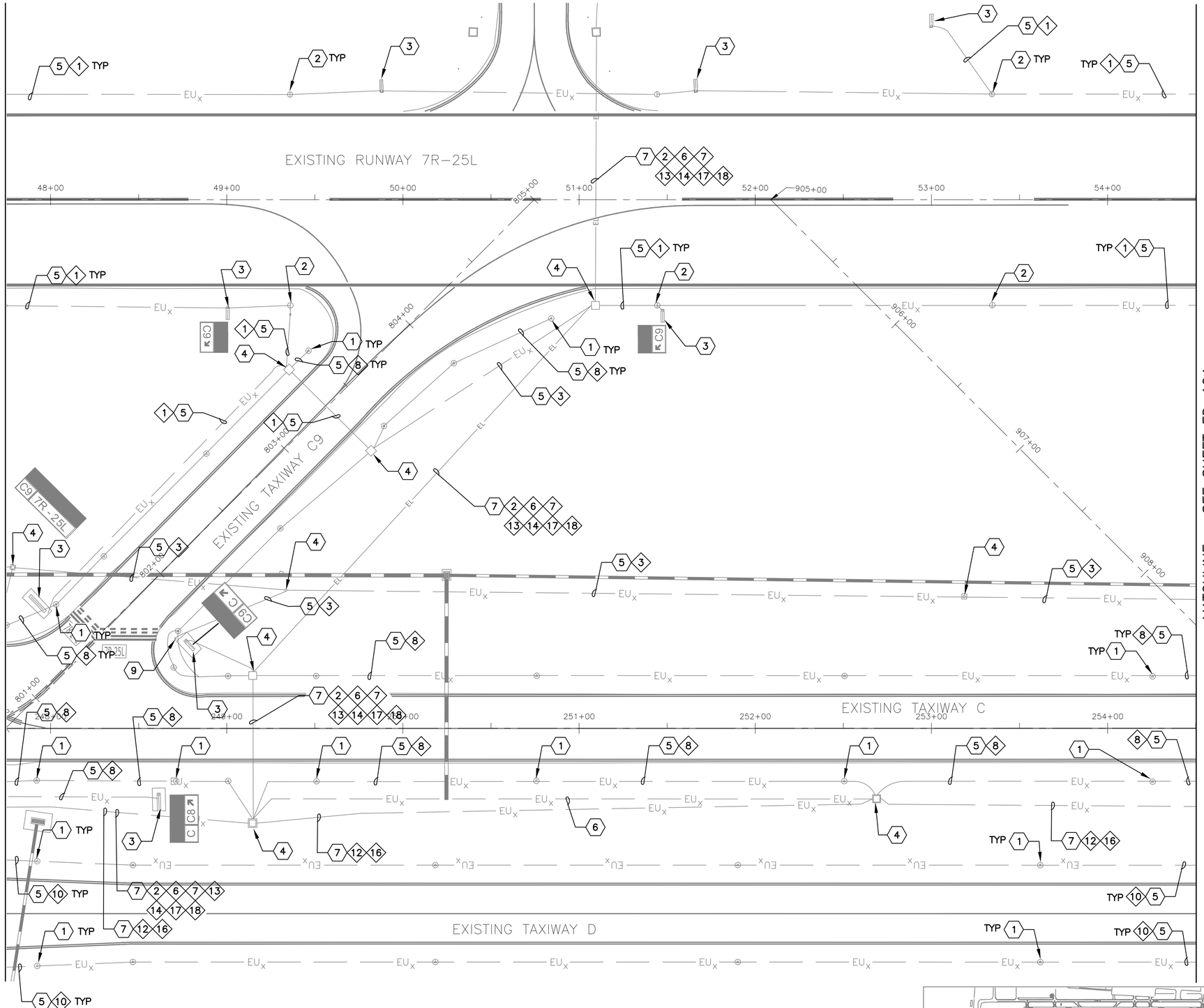
SHEET OVERVIEW TITLE

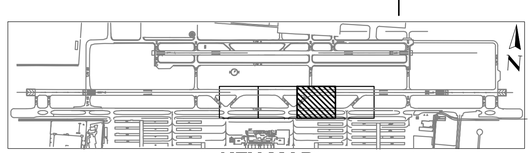
AIRFIELD ELECTRICAL DEMOLITION PLAN

SHEET REFERENCE NUMBER: ED-102

SHEET 38 OF 56

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KEY MAP

*NO ELECTRICAL DEMOLITION WORK SHOWN ON THIS SHEET – PROVIDED FOR REFERENCE ONLY

REFERENCE NOTES

1. EXISTING TAXIWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
2. EXISTING RUNWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
3. EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN – PROTECT IN PLACE
4. EXISTING HANDHOLE OR JUNCTION CAN TO REMAIN – PROTECT IN PLACE
5. EXISTING CONDUIT AND CONDUCTOR TO REMAIN – PROTECT IN PLACE
7. EXISTING DUCTBANK – PROTECT IN PLACE

CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA–001.

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Professional Engineer (Electrical)
CERTIFICATE NO. 36696
CATHERINE M. ALCORN
Date Signed 6/14/2024

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT ENGINEERING
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

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Date: 06/14/2024
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ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

AIRFIELD ELECTRICAL DEMOLITION PLAN

SHEET REFERENCE NUMBER:
ED-103

SHEET 39 OF 56

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MATCHLINE – SEE SHEET ED–103

EXISTING RUNWAY 7R–25L

EXISTING TAXIWAY C10

EXISTING TAXIWAY C

EXISTING TAXIWAY D8

EXISTING TAXIWAY D

APPROXIMATELY 380' TO NEXT JUNCTION CAN

DEMOLITION NOTES

1. REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER – REMOVE BASE CAN (15 TOTAL)
2. REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER – BASE CAN TO REMAIN (1 TOTAL)
3. EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR (1,655 LF TOTAL)
4. REMOVE EXISTING CONDUCTOR – CONDUIT TO REMAIN (760 LF TOTAL)
5. REMOVE AND SALVAGE EXISTING AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER – REMOVE SIGN BASE (5 TOTAL)
7. EXCAVATE AND REMOVED CONCRETE ENCASED DUCTBANK (100 LF TOTAL)
9. REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER – REMOVE BASE CAN (2 TOTAL)
10. EXCAVATE AND REMOVE EXISTING HANDHOLE (2 TOTAL)
11. REMOVE EXISTING JUNCTION CAN/PULLBOX (1 TOTAL)
15. REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER – BASE CAN TO REMAIN (1 TOTAL)

REFERENCE NOTES

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2. EXISTING RUNWAY EDGE LIGHT TO REMAIN – PROTECT IN PLACE
3. EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN – PROTECT IN PLACE
4. EXISTING HANDHOLE OR JUNCTION CAN TO REMAIN – PROTECT IN PLACE
5. EXISTING CONDUIT AND CONDUCTOR TO REMAIN – PROTECT IN PLACE
6. EXISTING CONDUIT TO REMAIN – PROTECT IN PLACE
7. EXISTING DUCTBANK TO REMAIN – PROTECT IN PLACE
8. APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
12. COORDINATE WITH AIRPORT FOR LOCKOUT–TAGOUT OF AFFECTED CIRCUIT(S)

CIRCUIT IDENTIFICATION

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Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

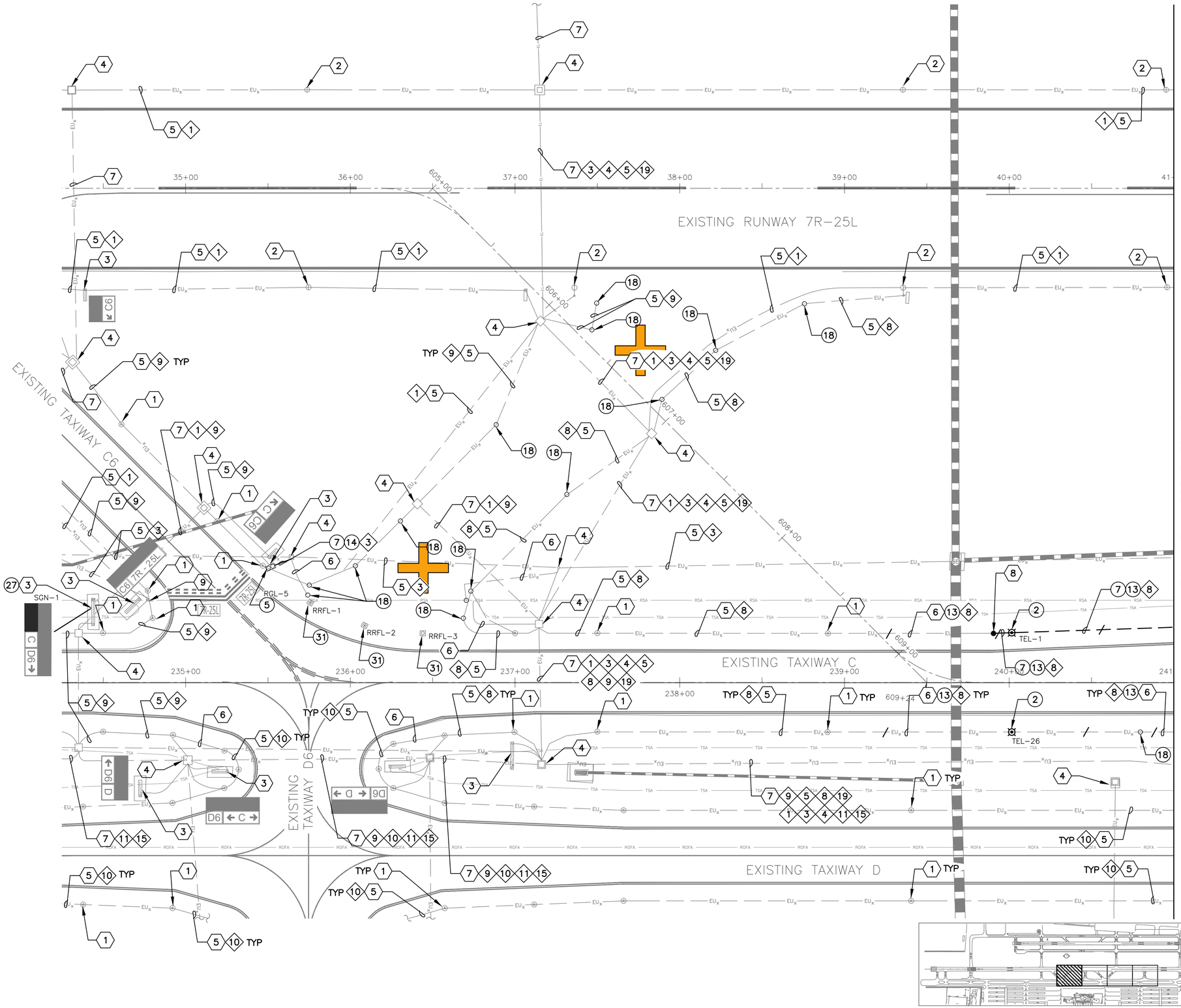
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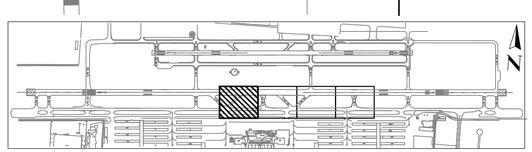
AIRFIELD ELECTRICAL DEMOLITION PLAN

SHEET REFERENCE NUMBER: ED-104

SHEET 40 OF 56

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CONSTRUCTION NOTES

(2) INSTALL NEW ELEVATED INCANDESCENT (QUARTZ) L–861T TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L–867 BASE CAN. (2 TOTAL)

(5) INSTALL SALVAGED ELEVATED L–804(L) LED RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER ON NEW L–867 BASE CAN. (1 TOTAL)

(7) 1–2"C SE (130 LF)

(13) 1/C, #8–5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (365 LF)

(14) 2/C, #8–5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (35 LF)

(18) INSTALL NEW BLANK COVER ON EXISTING L–867 BASE CAN (14 TOTAL)

(27) INSTALL NEW SIZE 1 SIGN PANELS IN EXISTING AIRFIELD GUIDANCE SIGN. (2 TOTAL)

(31) NEW L–853 RETROREFLECTIVE TAXIWAY EDGE MARKER (3 TOTAL)

REFERENCE NOTES

(1) EXISTING TAXIWAY EDGE LIGHT

(2) EXISTING RUNWAY EDGE LIGHT

(3) EXISTING AIRFIELD GUIDANCE SIGN

(4) EXISTING HANDHOLE OR JUNCTION CAN

(5) EXISTING CONDUIT AND CONDUCTOR

(6) EXISTING CONDUIT

(7) EXISTING DUCTBANK

(8) APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

(9) EXISTING ELEVATED RGL FIXTURE

CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA–001.

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0 30' 60'
SCALE:1"=30'

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Fax: (480) 816-5540
www.creng.com

Registered Professional Engineer (Electrical)
CATHERINE M. ALCORN
36696
Date Signed 1-4-24

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NO	REVISIONS / SUBMISSIONS	DATE

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S):
E25AV 01C & E353K 01C

SHEET OVERVIEW TITLE

AIRFIELD LIGHTING AND ELECTRICAL PLAN

SHEET REFERENCE NUMBER:
EA-101

SHEET 41 OF 56

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MATCHLINE – SEE SHEET EA-101

MATCHLINE – SEE SHEET EA-103

EXISTING RUNWAY 7R-25L

EXISTING TAXIWAY C

EXISTING TAXIWAY D

EXISTING TAXIWAY C8

EXISTING TAXIWAY D7

NEW TAXIWAY C7

706+00 705+00 704+00 703+00 702+00 701+00

42+00 43+00 44+00 45+00 46+00 47+00

242+00 243+00 244+00 245+00 246+00 247+00

JC-1 JC-2

HH-1 HH-2

SGN-2 SGN-3 SGN-4 SGN-5 SGN-6 SGN-7

RGL-1 RGL-2

TEL-1 TEL-2 TEL-3 TEL-4 TEL-5 TEL-6 TEL-7 TEL-8 TEL-9 TEL-10 TEL-11 TEL-12 TEL-13 TEL-14 TEL-15 TEL-16 TEL-17 TEL-18 TEL-19 TEL-20 TEL-21 TEL-22 TEL-23 TEL-24 TEL-25 TEL-27 TEL-28 TEL-29 TEL-30

(24-2"C)

KEY MAP

CONSTRUCTION NOTES

1. INSTALL NEW ELEVATED LED L-861T(L) TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN. (18 TOTAL)
2. INSTALL NEW ELEVATED INCANDESCENT (QUARTZ) L-861T TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN. (10 TOTAL)
4. INSTALL NEW ELEVATED L-804(L) LED RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN. (1 TOTAL)
5. INSTALL SALVAGED ELEVATED L-804(L) LED RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN. (1 TOTAL)
7. 1-2"C SE (990 LF)
8. 1-2"C CE (110 LF)
12. 4-2"C CE (140 LF)
13. 1/C, #8-5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (1,205 LF)
14. 2/C, #8-5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (1,045 LF)
15. NEW 4'x4'x4' HANDHOLE WITH AIRCRAFT RATED LID (2 TOTAL)
17. INSTALL NEW RGL ISOLATION CONDUITS IN NEW OR EXISTING HANDHOLE (2 TOTAL)
18. INSTALL NEW BLANK COVER ON EXISTING L-867 BASE CAN (1 TOTAL)
19. INSTALL NEW L-858(L) LED, SIZE 1, 2-MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (2 TOTAL)
21. INSTALL NEW L-858(L) LED, SIZE 1, 3-MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (3 TOTAL)
24. INSTALL SALVAGED L-858(L) LED, SIZE 1, 4-MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (1 TOTAL)
27. INSTALL NEW SIZE 1 SIGN PANELS IN EXISTING AIRFIELD GUIDANCE SIGN. (4 TOTAL)
28. NEW L-867B (12" DIA.) JUNCTION CAN (2 TOTAL)

REFERENCE NOTES

1. EXISTING TAXIWAY EDGE LIGHT
2. EXISTING RUNWAY EDGE LIGHT
3. EXISTING AIRFIELD GUIDANCE SIGN
4. EXISTING HANDHOLE OR JUNCTION CAN
5. EXISTING CONDUIT AND CONDUCTOR
6. EXISTING CONDUIT
7. EXISTING DUCTBANK
8. APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA-001.

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0 30' 60'
SCALE:1"=30'

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Professional Engineer (Electrical) CATHERINE M. ALCORN 36696 Date Signed 6/14/2024

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

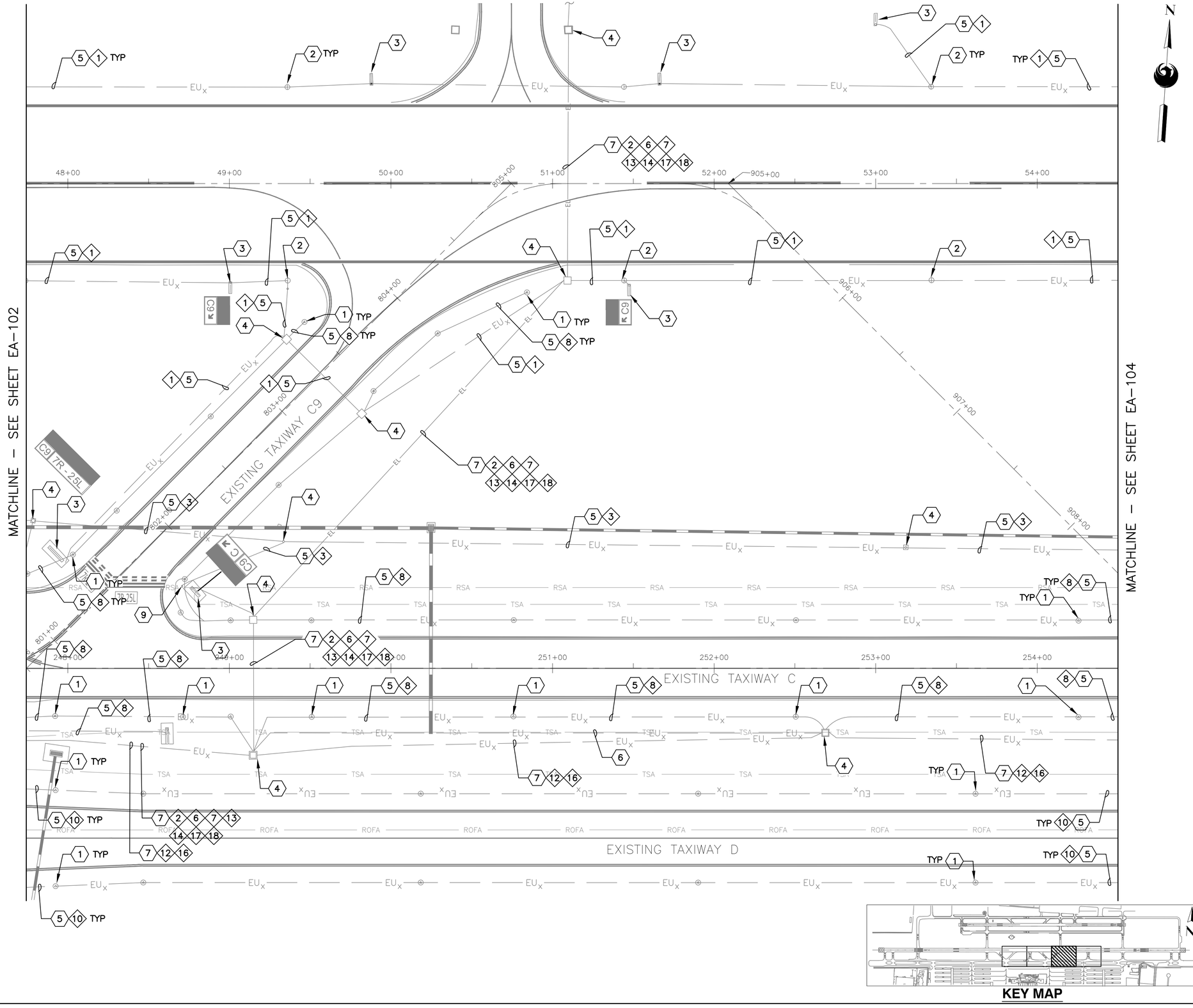
SHEET OVERVIEW TITLE

AIRFIELD LIGHTING AND ELECTRICAL PLAN

SHEET REFERENCE NUMBER: EA-102

SHEET 42 OF 56

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KEY MAP

*NO ELECTRICAL CONSTRUCTION WORK SHOWN ON THIS SHEET – PROVIDED FOR REFERENCE ONLY

REFERENCE NOTES

1. EXISTING TAXIWAY EDGE LIGHT
2. EXISTING RUNWAY EDGE LIGHT
3. EXISTING AIRFIELD GUIDANCE SIGN
4. EXISTING HANDHOLE OR JUNCTION CAN
5. EXISTING CONDUIT AND CONDUCTOR
6. EXISTING CONDUIT
7. EXISTING DUCTBANK

CIRCUIT IDENTIFICATION

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CERTIFICATE NO.
36696
CATHERINE M.
ALCORN
Date Signed 6/14/2024

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C4-C10 CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
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Checked by: CA
Date: 06/14/2024
Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

AIRFIELD LIGHTING AND ELECTRICAL PLAN

SHEET REFERENCE NUMBER:
EA-103

SHEET 43 OF 56

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MATCHLINE – SEE SHEET EA–103

EXISTING RUNWAY 7R–25L

NEW TAXIWAY C10

EXISTING TAXIWAY C

EXISTING TAXIWAY D8

EXISTING TAXIWAY D

JC–3 JC–4 HH–3

SGN–8 SGN–9 SGN–10 SGN–11 SGN–12 SGN–13 SGN–14

TEL–31 TEL–32 TEL–33 TEL–34 TEL–35 TEL–36 TEL–37 TEL–38 TEL–39 TEL–40 TEL–41 TEL–42 TEL–43 TEL–44 TEL–45 TEL–46 TEL–47 TEL–48 TEL–49 TEL–50 TEL–51 TEL–52 TEL–53 TEL–54 TEL–55 TEL–56 TEL–57

RGL–3 RGL–4

C10 7R - 25L

APPROXIMATELY 380' TO NEXT JUNCTION CAN

CONSTRUCTION NOTES

1. INSTALL NEW ELEVATED LED L–861T(L) TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L–867 BASE CAN. (18 TOTAL)
2. INSTALL NEW ELEVATED INCANDESCENT (QUARTZ) L–861T TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L–867 BASE CAN. (9 TOTAL)
3. INSTALL SALVAGED ELEVATED L–861 RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON EXISTING L–867 BASE CAN. (1 TOTAL)
5. INSTALL SALVAGED ELEVATED L–804(L) LED RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER ON NEW L–867 BASE CAN. (2 TOTAL)
7. 1–2"C SE (1,660 LF)
8. 1–2"C CE (110 LF)
9. 2–4"C SE (185 LF)
10. 2–4"C CE (95 LF)
11. 4–2"C SE (50 LF)
12. 4–2"C CE (95 LF)
13. 1/C, #8–5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (1,575 LF)
14. 2/C, #8–5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (1,725 LF)
15. NEW 4'x4'x4' HANDHOLE WITH AIRCRAFT RATED LID (2 TOTAL)
17. INSTALL NEW RGL ISOLATION CONDUITS IN NEW OR EXISTING HANDHOLE (2 TOTAL)
18. INSTALL NEW BLANK COVER ON EXISTING L–867 BASE CAN (1 TOTAL)
19. INSTALL NEW L–858(L) LED, SIZE 1, 2–MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (1 TOTAL)
20. INSTALL SALVAGED L–858(L) LED, SIZE 1, 2–MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (1 TOTAL)
21. INSTALL NEW L–858(L) LED, SIZE 1, 3–MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (2 TOTAL)
22. INSTALL SALVAGED L–858(L) LED, SIZE 1, 3–MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (1 TOTAL)
23. INSTALL NEW L–858(L) LED, SIZE 1, 4–MODULE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. (1 TOTAL)
26. INSTALL SALVAGED L–858(L) LED, SIZE 1, 5–MODULE (2–MOD+3–MOD) AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW DOUBLE–ENDED SIGN BASE WITH ASPHALT MAINTENANCE PAD. (1 TOTAL)
27. INSTALL NEW SIZE 1 SIGN PANELS IN EXISTING AIRFIELD GUIDANCE SIGN. (10 TOTAL)
28. NEW L–867B (12" DIA.) JUNCTION CAN (2 TOTAL)

REFERENCE NOTES

1. EXISTING TAXIWAY EDGE LIGHT
2. EXISTING RUNWAY EDGE LIGHT
3. EXISTING AIRFIELD GUIDANCE SIGN
4. EXISTING HANDHOLE OR JUNCTION CAN
5. EXISTING CONDUIT AND CONDUCTOR
6. EXISTING CONDUIT
7. EXISTING DUCTBANK
8. APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA–001.

KEY MAP

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SCALE:1"=30'

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SUB CONSULTANT: CRI engineers, 16719 East Palisades Blvd., Suite 202, Fountain Hills, AZ 85268, Phone: (480) 816-5541, Fax: (480) 816-5540, www.creng.com

Professional Engineer (Electrical) — CERTIFICATE NO. 36696 — CATHERINE M. ALCORN — Date Signed 4-30-24

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NO	REVISIONS / SUBMISSIONS	DATE

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CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: 1" = 30'

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

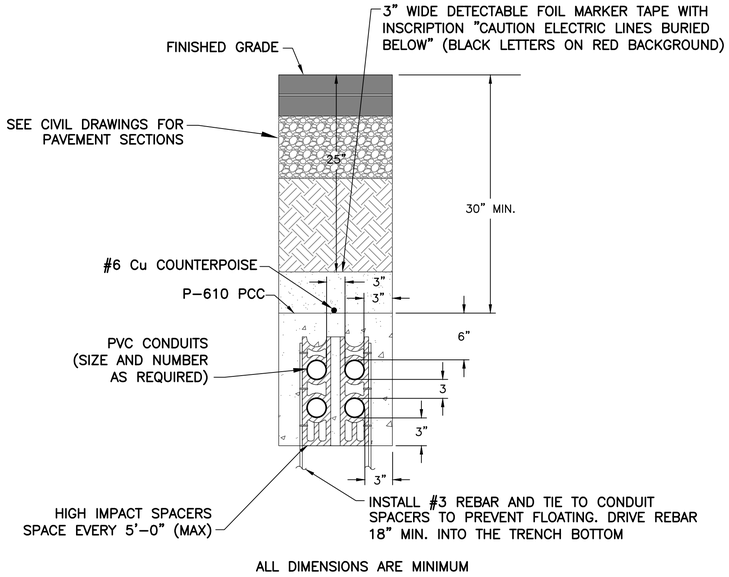
SHEET OVERVIEW TITLE

AIRFIELD LIGHTING AND ELECTRICAL PLAN

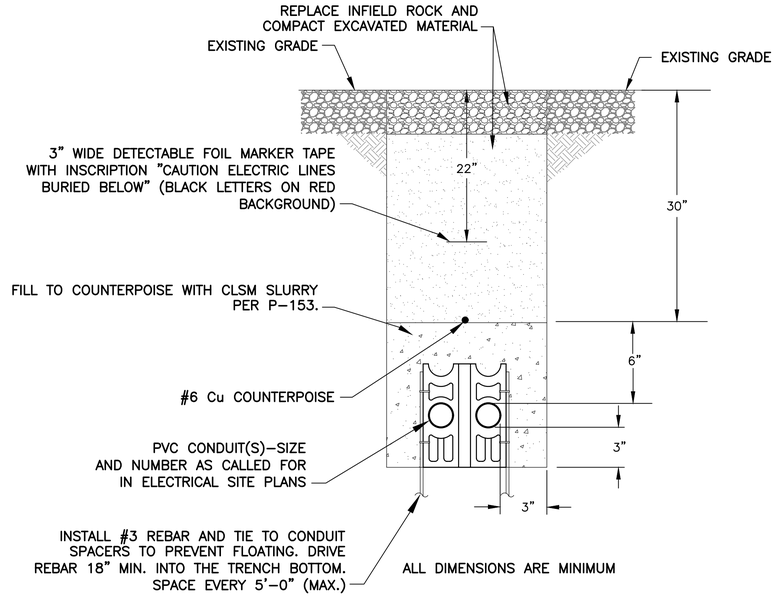
SHEET REFERENCE NUMBER: EA-104

SHEET 44 OF 56

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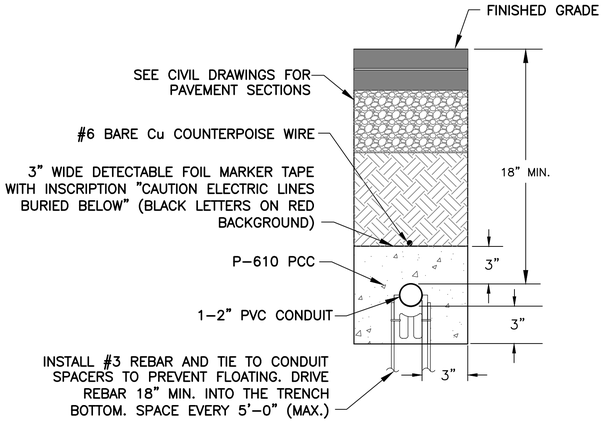


501 TYP CONCRETE ENCASED (CE) CONDUIT DUCTBANK
NTS

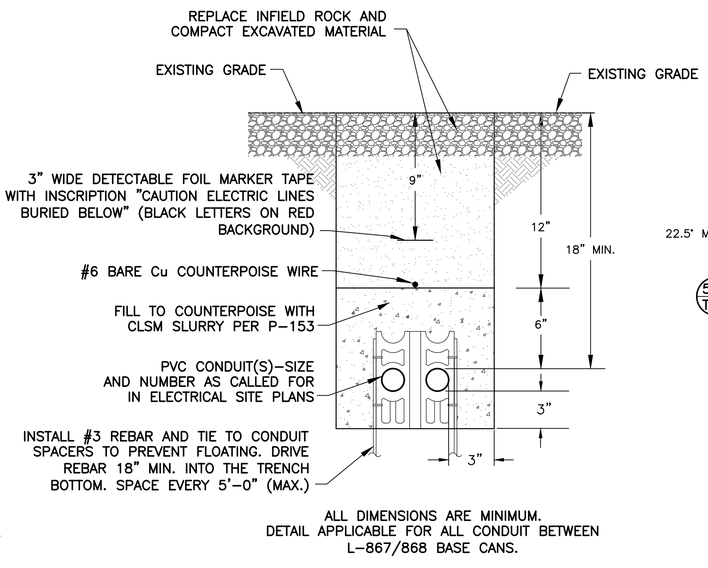


503 TYP SLURRY ENCASED (SE) CONDUIT DUCTBANK
NTS

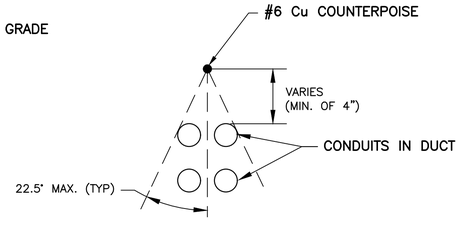
SEE CONDUIT INSTALLATION NOTES ON SHEET EA-002



504 TYP CONDUIT DETAIL - CONCRETE ENCASED (CE)
NTS

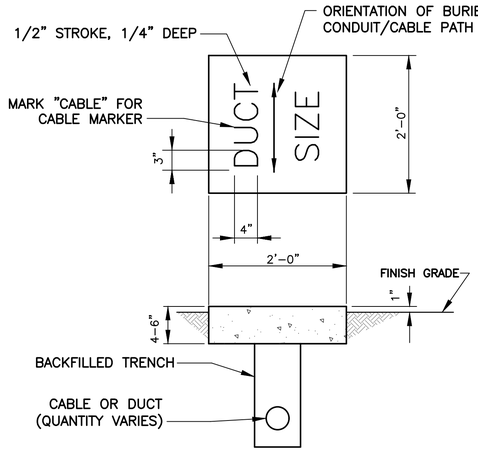


505 TYP CONDUIT DETAIL - SLURRY ENCASED (SE)
NTS



506 TYP COUNTERPOISE COVERAGE
NTS

NOTE
1. ADJUST COUNTERPOISE OFFSET ABOVE CONDUIT/DUCT (MIN. OF 4") TO PROVIDE A CONE OF PROTECTION (MAX. OF 22.5° EACH SIDE OF VERTICAL) ABOVE ALL CONDUITS.



663 TYP CABLE/DUCT MARKER
NTS

NOTES
1. LOCATE THE MARKERS ABOVE THE ENDS AND DIRECTIONAL CHANGES OF ALL DUCTS OR DUCT BANKS, EXCEPT WHERE DUCTS TERMINATE IN THE HANDHOLE, MANHOLE, OR BUILDING. THE WORD "DUCT" MUST BE IMPRESSED ON EACH MARKER SLAB, AS WELL AS THE NUMBER AND SIZE OF DUCTS BENEATH THE MARKER.
2. COST OF CONCRETE MARKERS IS INCIDENTAL TO THE ASSOCIATED ITEMS OF DUCTS IN ACCORDANCE WITH L-110.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

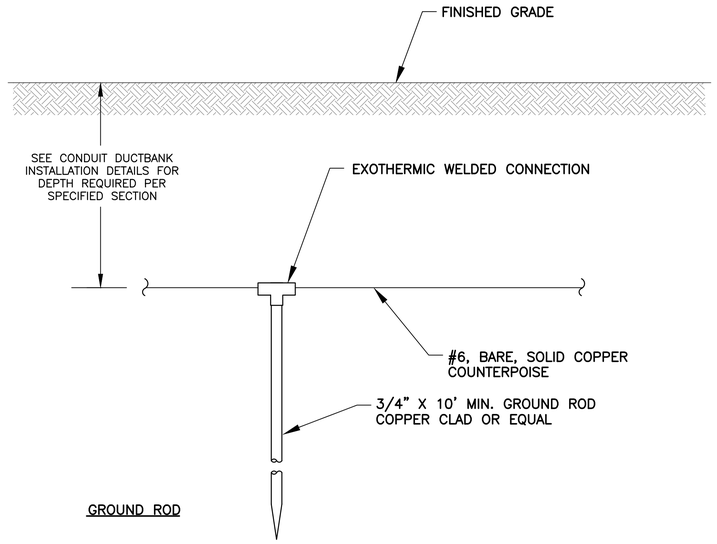
ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE
ELECTRICAL DETAILS - CONDUIT DUCTBANKS AND DUCT MARKER

SHEET REFERENCE NUMBER:
EA-501

SHEET 45 OF 56

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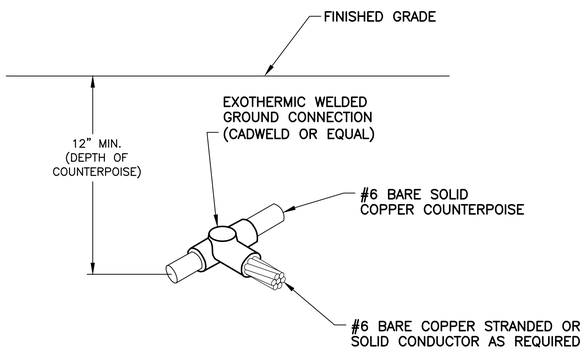


761 TYP COUNTERPOISE INSTALLATION DETAIL

NTS

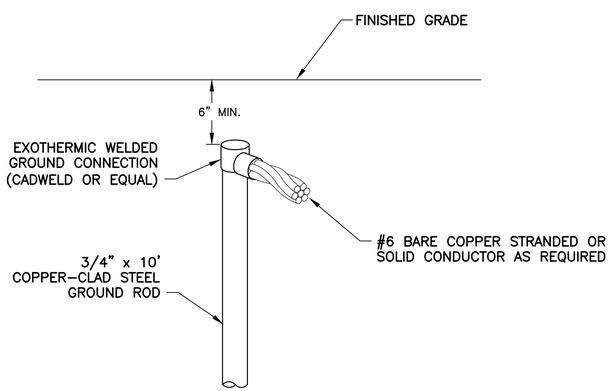
NOTES

1. COST OF GROUND RODS SHALL BE 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).
4. REFER TO DETAILS 501 AND 502, SHEET E–501, FOR CONCRETE ENCASED CONDUITS. REFER TO DETAILS 503 AND 505, SHEET E–501, FOR SLURRY ENCASED CONDUITS.
5. MAINTAIN SIX INCH (MINIMUM) VERTICAL SEPARATION BETWEEN COUNTERPOISE AND TYPE "C" CABLE IN 2" CONDUIT.
6. PROVIDE GROUND ROD FOR EXOTHERMICALLY WELDING TO COUNTERPOISE AT END OF SINGLE CONDUITS TERMINATING AT FIXTURE OR SIGN BASES IF DISTANCE IS GREATER THAN 100' FROM HANDHOLE OR LAST INSTALLED COUNTERPOISE ROD.



766 TYP COUNTERPOISE TO CABLE CONNECTION DETAIL

NTS



767 TYP CABLE TO GROUND ROD CONNECTION DETAIL

NTS

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 36696 CATHERINE M. ALCORN Date Signed 6/14/2024

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

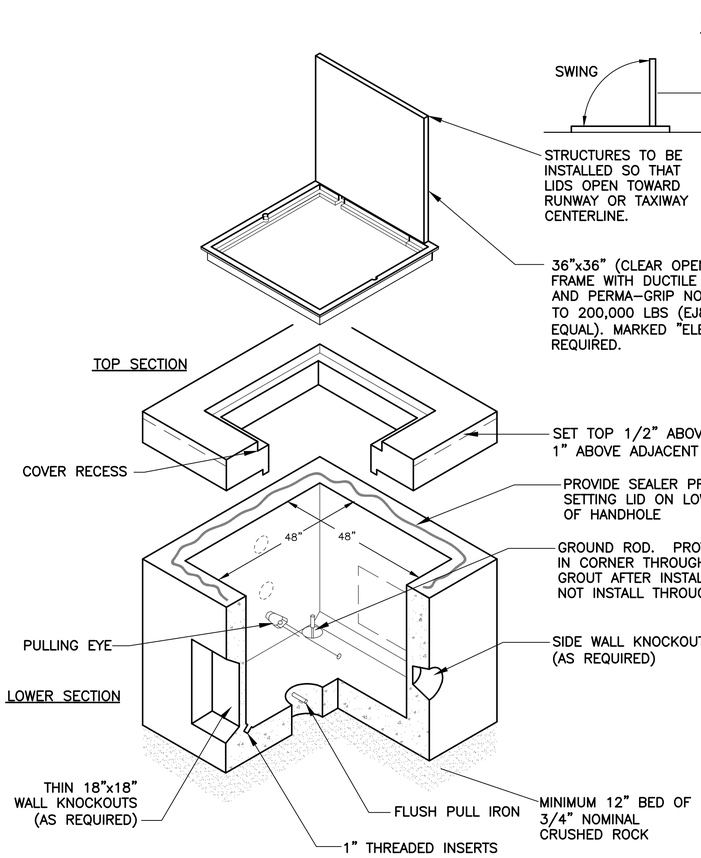
Designed by:	SW
Drawn by:	JBW
Checked by:	CA
Date:	06/14/2024
Dwg scale:	NTS

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

ELECTRICAL DETAILS - COUNTERPOISE AND GROUNDING

SHEET REFERENCE NUMBER:
EA-502

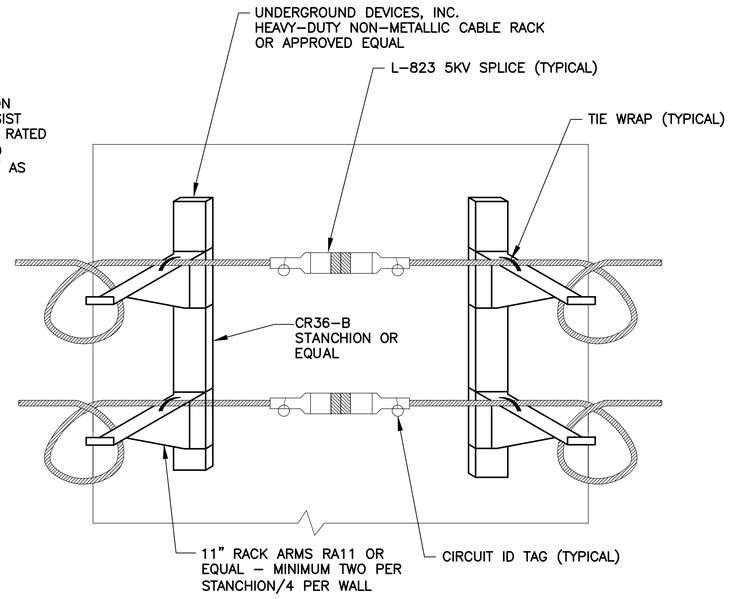


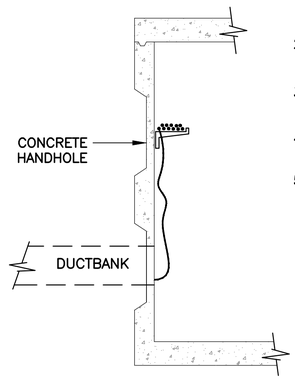
960 TYP 4'x4'x4' HANDHOLE DETAIL
NTS

(AIRCRAFT LOAD RATED – SEE SPEC. L-115)

HANDHOLE NOTES:

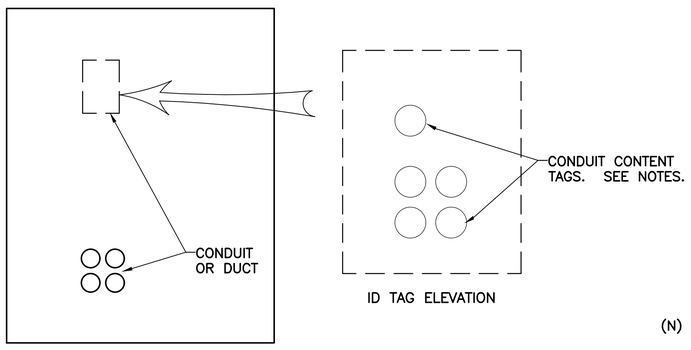
1. ALL STEEL, OTHER THAN REBAR, TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
2. PROVIDE ALL HANDHOLES WITH CABLE RACKS AND PULLING EYES PER SPECIFICATIONS.
3. PROVIDE CABLE ROUTING ID TAGS AT EACH HANDHOLE.
4. PROVIDE GROUND ROD FOR EACH HANDHOLE PER SPECIFICATIONS.
5. GROUT ALL CONDUIT PENETRATIONS.
6. PROVIDE MANUFACTURER 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.
8. PROVIDE SUMP DRAIN WITH GRATE IN HANDHOLE STRUCTURE FLOOR. KNOCK BOTTOM OUT OF SUMP DURING INSTALLATION.





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

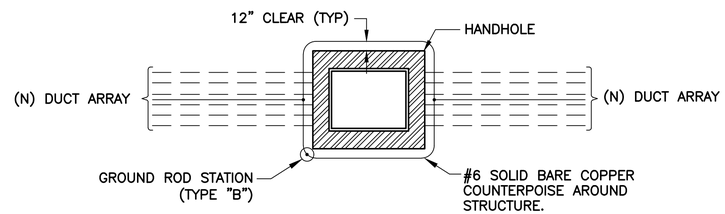
A CABLE RACKING DETAIL
NTS



B CABLE ROUTING IDENTIFICATION TAG DETAIL
NTS

PLAQUE NOTES:

1. 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.
2. THE TAGS SHALL BE APPROX 1"H x 2"L AND SHALL HAVE MINIMUM 1/4" LETTERING.



C HANDHOLE COUNTERPOISE DETAIL
NTS

NOTES:

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

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYR
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

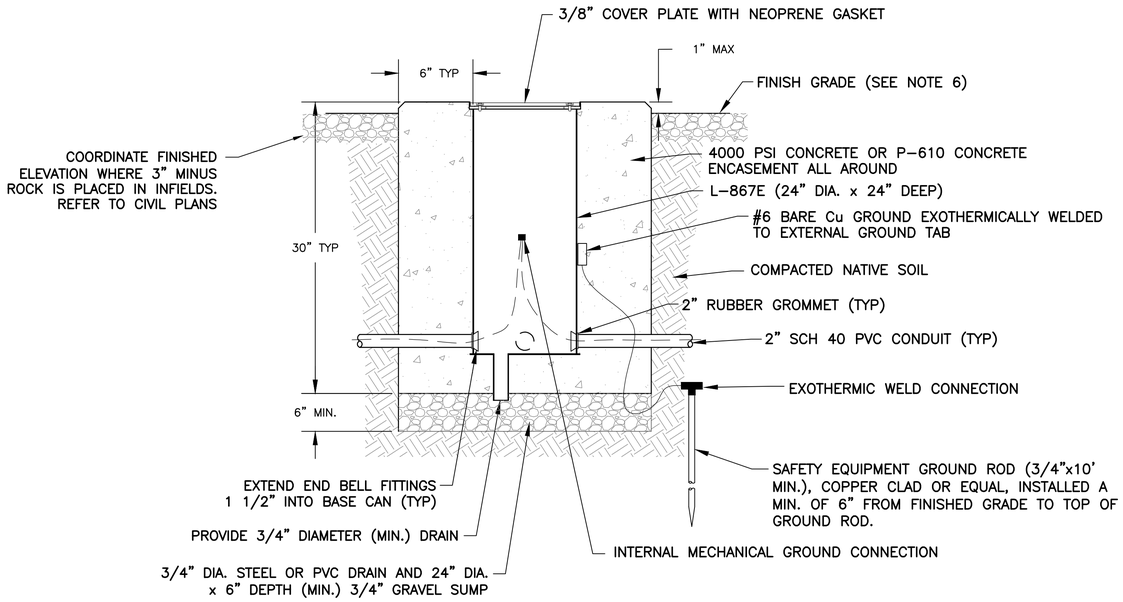
ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

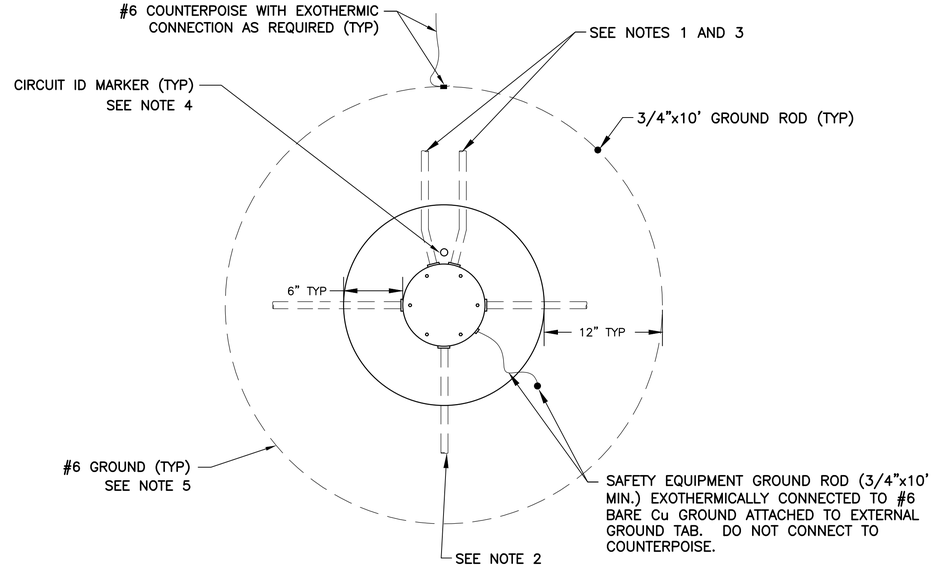
SHEET OVERVIEW TITLE
ELECTRICAL DETAILS - 4'x4'x4' HANDHOLE

SHEET REFERENCE NUMBER:
EA-503

SHEET 47 OF 56

G:\PROJECTS\22000\22002 DVT Twy C Connectors C4-C10\CAD\CAD SHEETS\ 22002 EA-503-4'x4'x4' HANDHOLE.dwg — Jun 13,2024 7:42am

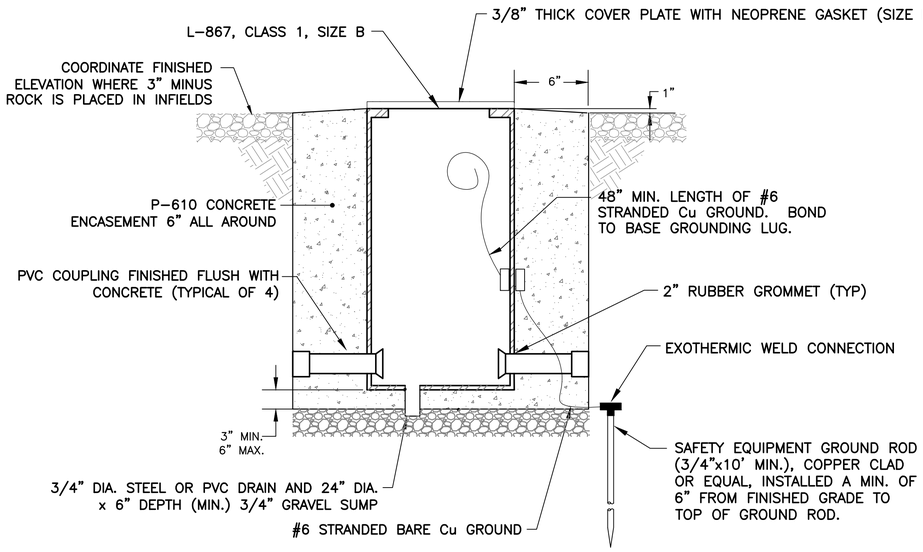




821 TYP L-867B JUNCTION CAN DETAIL
NTS

NOTES:

1. NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION. PROVIDE 2" SPARE CONDUIT FOR EACH CIRCUIT AT TAXIWAY CROSSINGS.
2. CONDUITS WHICH ARE NOT USED IN THE PROJECT SHALL BE CAPPED 4" OUTSIDE OF CONCRETE.
3. ORIENT JUNCTION CAN AS SHOWN ON ELECTRICAL SITE PLANS.
4. CONTRACTOR SHALL PROVIDE A 2" DIAMETER DOMED BRONZE MARKER AT EACH JUNCTION AS SHOWN. MARKER SHALL BE STAMPED WITH CIRCUIT IDENTIFICATION AS SHOWN ON DETAIL 664, SHEET EA-506
5. INSTALL GROUND ROD AND GROUND LOOP AT ALL JUNCTION CAN AS SHOWN. ONE GROUND ROD SHALL BE PROVIDED. COUNTERPOISE SHALL BE LOCATED NOMINALLY 6" ABOVE CONDUITS. DO NOT BOND TO JUNCTION CANS.
6. CONTRACTOR SHALL GRADE AROUND JUNCTION CAN AS NECESSARY TO PREVENT SILT/DIRT INFILTRATION ONTO JUNCTION CAN. NO SEPARATE PAYMENT SHALL BE MADE.
7. EACH JUNCTION CAN HAS 4-2" GROMMETED HUBS. HUBS SHALL BE PLACED IN TWO LAYERS AND THE HUBS IN ONE LAYER SHALL BE 90° FROM THE HUBS IN THE OTHER LAYER. EACH PAIR OF HUBS SHALL BE 180° APART. MODIFICATION MAY BE REQUIRED TO ADD SPARE CONDUIT ENTRY HUB. SEAL UNUSED OPENINGS AS REQUIRED.
8. JUNCTION CANS SHALL BE INSTALLED SUCH THAT THE TOP FLANGE IS FLUSH (+0, -1/8") WITH THE TOP OF CONCRETE



902 TYP PRE-CAST L-867 FIXTURE BASE/JUNCTION CAN
NTS

NOTES:

1. CONTRACTOR MAY FURNISH PRE-CAST CONCRETE JUNCTION CANS AND FIXTURE BASES FOR INSTALLATION IN UNPAVED SHOULDERS AND INFIELDS OR RETROFIT IN EXISTING PAVED SHOULDERS. REFER TO CIVIL PLANS FOR FINISHED GRADE AND MATERIALS.
2. ONE-PIECE SONOTUBES OF CORRECT DIAMETER FOR 6" MIN. CONCRETE SURROUND MAY BE UTILIZED FOR ONE-TIME USE ONLY. ROUND COLUMN FORMS SPECIFICALLY DESIGNED FOR MULTIPLE USE MAY BE USED.
3. CONTRACTOR SHALL SUBMIT ON SPECIFIC PRE-CAST MEANS AND METHODS FOR ENGINEER REVIEW AND APPROVAL.
4. REFER TO ELEVATED TAXIWAY AND/OR RUNWAY GUARD LIGHT FIXTURE AND COUNTERPOISE INSTALLATION DETAILS.

GENERAL NOTES:

1. LEAVE APPROXIMATELY SIX (6) FEET OF EACH CABLE COILED IN JUNCTION CAN SO THAT EACH CABLE MAY BE RAISED A MINIMUM OF TWO (2) FEET ABOVE TOP OF CAN.
2. CONTRACTOR SHALL PROVIDE CABLE CIRCUIT IDENTIFICATION (ID) MARKERS ATTACHED TO EACH CABLE ENTERING AND LEAVING JUNCTION CANS. IF NO L-823 CONNECTOR IS PRESENT, INSTALL ONE (1) ID MARKER.
3. TRANSITION FROM MULTI-WAY CONDUIT TRENCH TO JUNCTION CAN REQUIRES DISTRIBUTION OF 2" SCH 40 PVC TO EACH JUNCTION CAN. CONTRACTOR SHALL LIMIT CONDUIT BENDS TO 45 DEG. MAXIMUM.
4. CONTRACTOR SHALL INSTALL L-823 CONNECTORS IN A CONSISTENT MANNER FROM JUNCTION CAN TO THE NEXT. EACH SEGMENT OF #8 L-824C, 5KV CABLE IN THE AIRFIELD SHALL HAVE A MALE L-823 CONNECTOR ON ONE END AND A FEMALE CONNECTOR ON THE OTHER.

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 36696 CATHERINE M. ALCORN Date Signed 4-4-2024

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

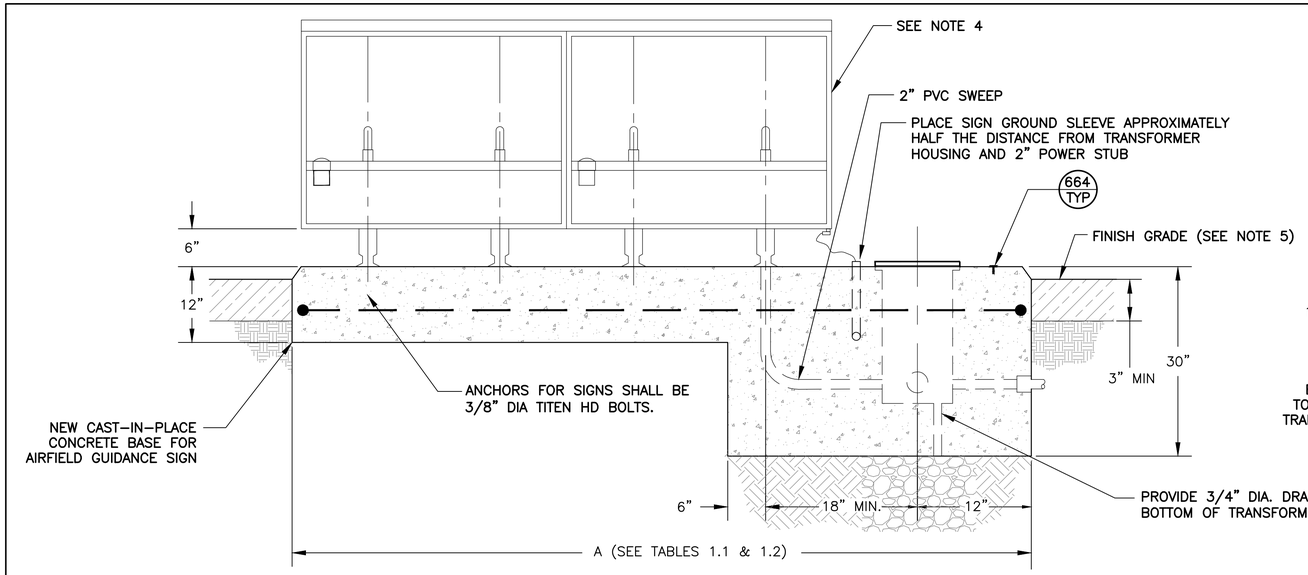
ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE
ELECTRICAL DETAILS - JUNCTION CAN

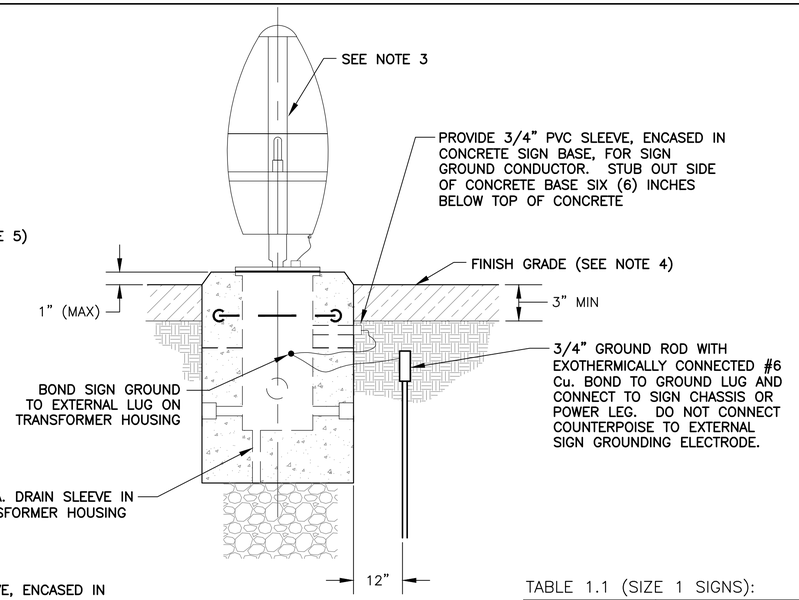
SHEET REFERENCE NUMBER:
EA-504

SHEET 48 OF 56

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SIDE VIEW

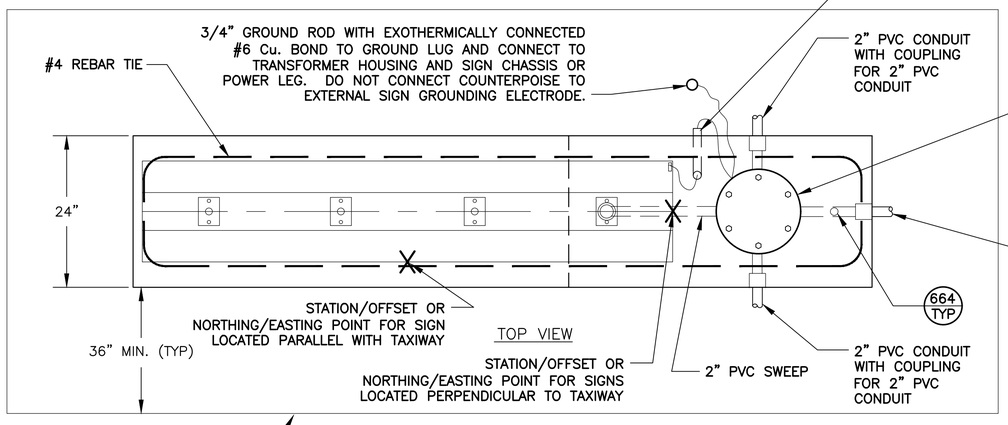


FRONT VIEW (CAN SIDE)

TABLE 1.1 (SIZE 1 SIGNS):

# OF MODULES	BASE LENGTH (A)
1	64"
2	93"
3	122"
4	151"

*ALL LENGTHS SHOWN ARE MINIMUM



919 TYP NEW CAST-IN-PLACE CONCRETE BASE FOR AIRFIELD GUIDANCE SIGN

NTS

NOTES

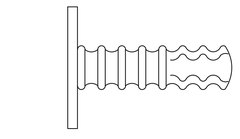
1. NEW CAST-IN-PLACE CONCRETE BASE SHOWN WITH A TWO MODULE SIGN FOR ILLUSTRATIVE PURPOSES ONLY. SEE TABLE 1.1 FOR ACTUAL LENGTH OF BASE NEEDED FOR MULTIPLE MODULE SIGNS.
2. BASE SHALL BE CONSTRUCTED LEVEL, 1" ABOVE FINISHED GRADE OF AREA WHERE BASE IS CONSTRUCTED.
3. TRANSFORMER HOUSING SHALL BE ORIENTED AT TAXIWAY EDGE PER COP/DVT STANDARDS.
4. SIGNS SHALL BE EQUIPPED WITH DISCONNECTING SWITCH AND WEATHERPROOF COVER ON INBOARD OF SIGN.
5. PROVIDE 36" MINIMUM ASPHALT MAINTENANCE/HOUSEKEEPING PAD AROUND EACH CONCRETE SIGN BASE IN UNPAVED AREAS – PER MAG SPEC 3" THICK ON COMPACTED BASE.

SIGN HEIGHTS AND LOCATION DISTANCES FOR TAXIWAY GUIDANCE SIGNS

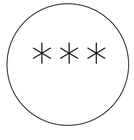
SIGN SIZE	LEGEND HEIGHT	LEGEND PANEL HEIGHT	INSTALLED* (MAX.)	PERPENDICULAR DISTANCE FROM DEFINED PAVMENT EDGE TO NEAR SIDE OF SIGN
1	12"	18"	30"	10' – 20'
2	15"	24"	36"	20' – 35'
3	18"	30"	42"	35' – 60'

* THE HEIGHT REFERRED TO IN THIS COLUMN IS THE DISTANCE FROM TOP OF THE SIGN TO GRADE MEASURED AT THE SIDE OF THE SIGN THAT IS NEAREST TO THE APPLICABLE RUNWAY, TAXIWAY, OR APRON. IN ACCORDANCE WITH PARAGRAPH 14, THIS HEIGHT SHOULD BE REDUCED, IF NECESSARY, TO PROVIDE THE REQUIRED 12-INCH CLEARANCE BETWEEN THE TOP OF THE SIGN AND THE CRITICAL AIRCRAFT.

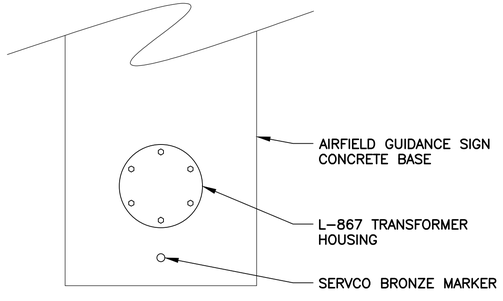
(SEE FAA ADVISORY CIRCULAR 150/5340-18G FOR FURTHER INFORMATION AND CLARIFICATION)



SERVCO BRONZE MARKER



***= TW D (TAXIWAY DELTA)



AIRFIELD GUIDANCE SIGN BASE MARKER LOCATION

664 TYP CIRCUIT IDENTIFICATION MARKER

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.

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

SUB CONSULTANT: CR engineers, 16719 East Palisades Blvd., Suite 202, Fountain Hills, AZ 85268, Phone: (480) 816-5541, Fax: (480) 816-5540, www.creng.com

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

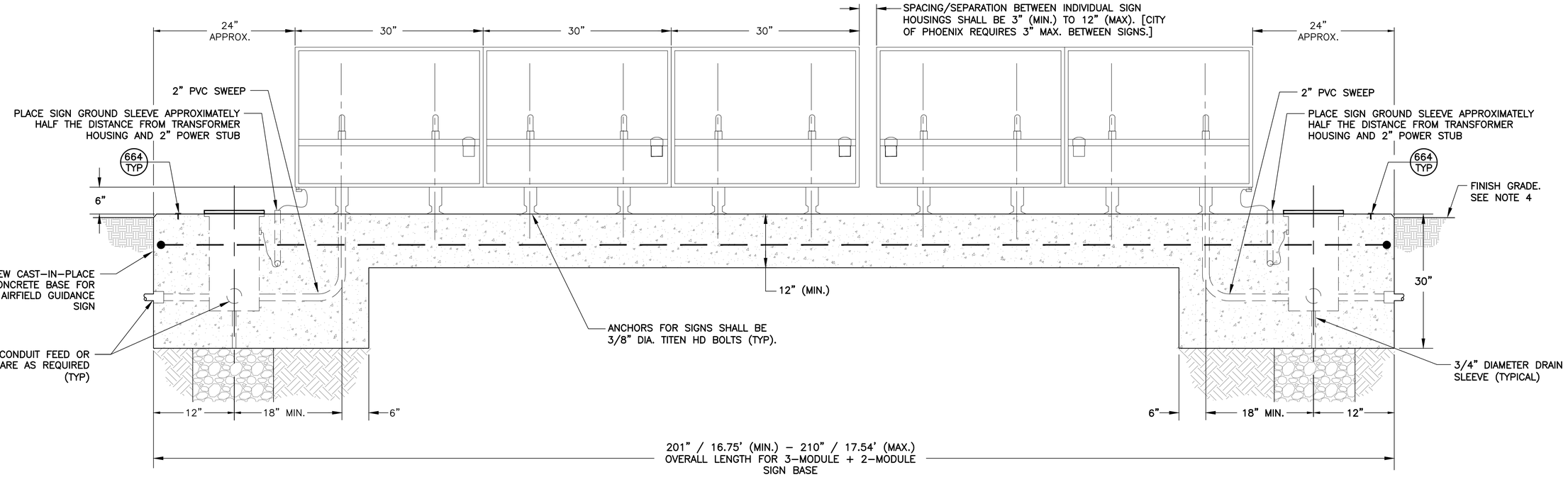
ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

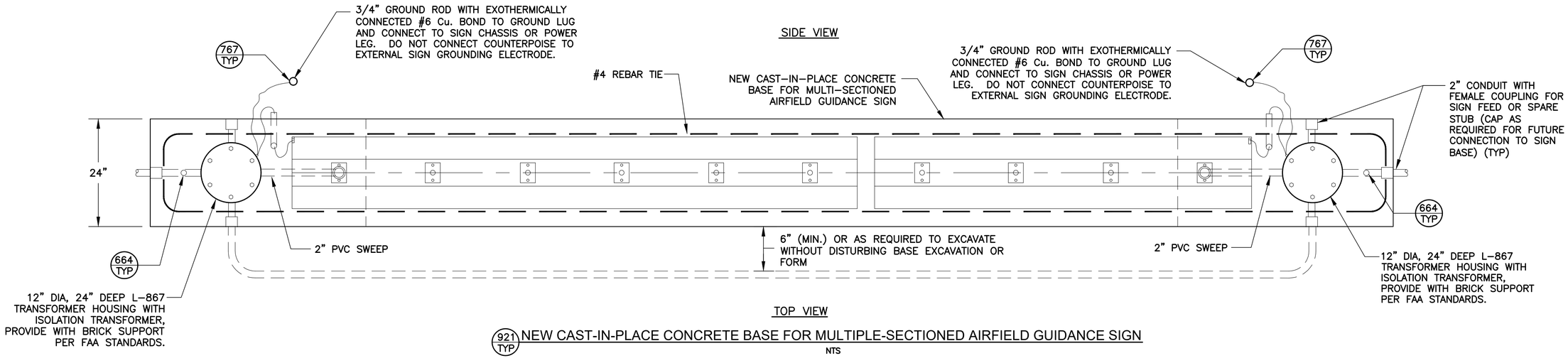
SHEET OVERVIEW TITLE: ELECTRICAL DETAILS - NEW CAST-IN-PLACE CONCRETE BASE FOR AIRFIELD GUIDANCE SIGN

SHEET REFERENCE NUMBER: EA-505

SHEET 49 OF 56

Q:\PROJECTS\V2000\V2002 DVT Twy C Connectors C4-C10\CAD\Cad SHEETS\ 22002 EA-505 CAST-IN-PLACE CONCRETE BASE FOR AIRFIELD GUIDANCE SIGN.dwg — Jun 13,2024 7:43am





921 TYP NEW CAST-IN-PLACE CONCRETE BASE FOR MULTIPLE-SECTIONED AIRFIELD GUIDANCE SIGN

NTS

NOTES

1. SEE SHEET EA–505 FOR ADDITIONAL INFORMATION FOR INSTALLATION OF NEW CAST–IN–PLACE CONCRETE BASE.
2. TRANSFORMER HOUSING SHALL BE ORIENTED AT TAXIWAY/RUNWAY EDGE PER COP/DVT STANDARDS.
3. SIGNS SHALL BE EQUIPPED WITH DISCONNECTING SWITCH AND WEATHERPROOF COVER ON INBOARD OF SIGN.
4. PROVIDE 36" MINIMUM ASPHALT MAINTENANCE/HOUSEKEEPING PAD AROUND EACH CONCRETE SIGN BASE IN UNPAVED AREAS – PER MAG SPEC 3" THICK ON COMPACTED BASE.
5. BASE SHALL BE CONSTRUCTED LEVEL, 1" ABOVE FINISHED GRADE OF AREA WHERE BASE IS CONSTRUCTED.

* THIS DETAIL APPLICABLE TO SIGNS LARGER THAN 4–MODULES/10' OVERALL MAXIMUM LENGTH (SIZE 1). TYPICAL SIZE 1 SIGN MODULE LENGTH IS 30" – ADD 30" TO OVERALL LENGTH FOR EACH ADDITIONAL MODULE. CAST–IN–PLACE CONCRETE SIGN BASE SHOWN – CONTRACTOR SHALL HAVE THE OPTION TO SUBMIT PRE–CAST CONCRETE SIGN BASES FOR REVIEW AND APPROVAL.

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BWI
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
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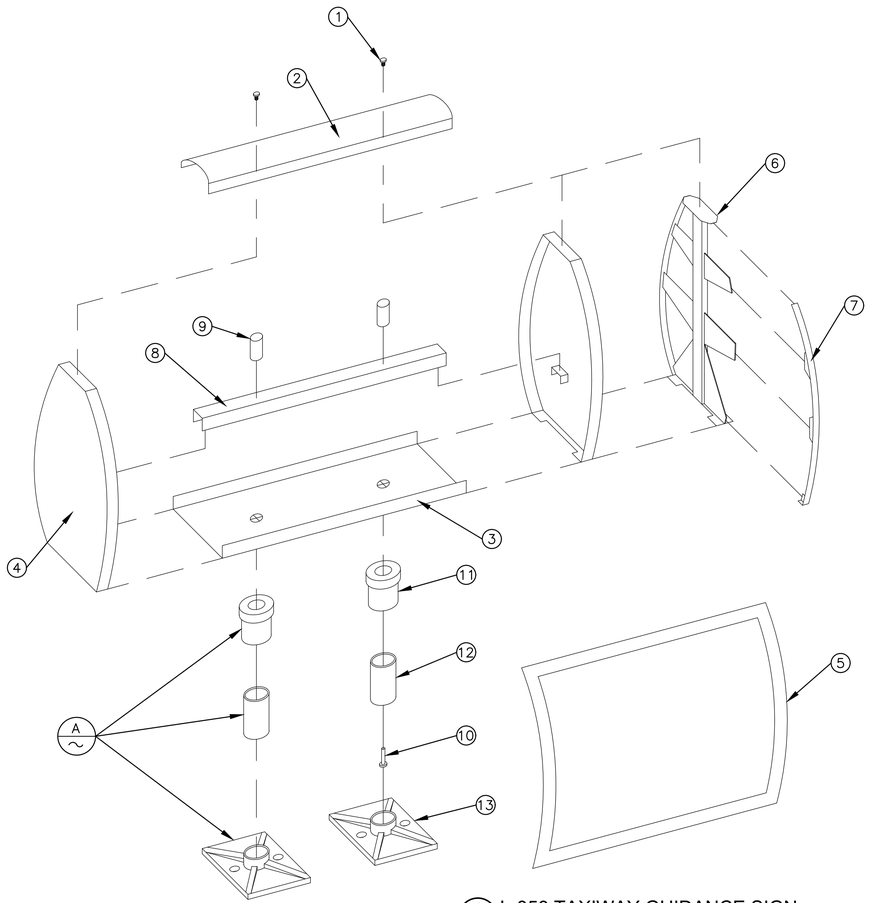
ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

ELECTRICAL DETAILS - NEW CAST-IN-PLACE CONCRETE BASE FOR MULTIPLE-SECTIONED AIRFIELD GUIDANCE SIGN

SHEET REFERENCE NUMBER:
EA-506

D:\PROJECTS\22000\22002 DVT Twy C Connectors C4-C10\CAD\CAD SHEETS\ 22002 EA-506-CAST-IN-PLACE CONCRETE BASE FOR MULTIPLE-SECTIONED AIRFIELD GUIDANCE SIGN.dwg — Jun 13,2024 7:43pm

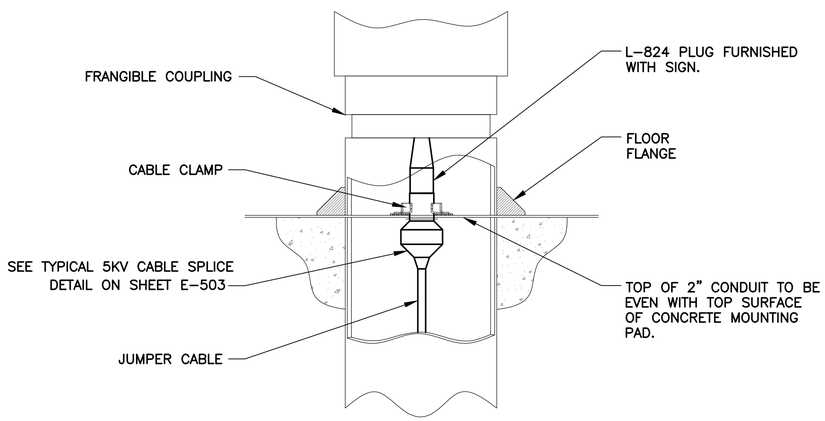


1. TURN FASTENERS
2. TOP COVER (SEE NOTE 4)
3. BASE (SIGN BOTTOM)
4. END PANEL (SEE NOTE 3)
5. LEGEND PANEL
6. SUPPORT JUNCTION
7. FACE INSERT PANEL JOINT
8. LAMP MOUNTING BAR
9. LAMP SOCKET
10. FAA L-823 PLUG
11. SLIP FLANGE
12. FRANGIBLE COUPLING (6" LENGTH)
13. FLOOR FLANGE

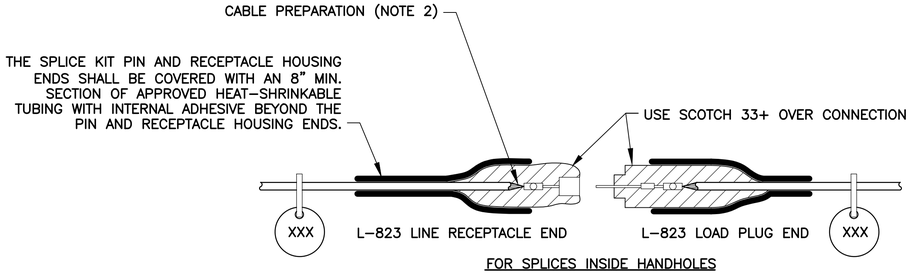
NOTES:

1. NEW AIRFIELD SIGNS SHALL BE OF A CURVED FACE DESIGN TO MAINTAIN SIMILAR APPEARANCE TO THAT OF EXISTING SIGNAGE AND TO FACILITATE ARRAY MODIFICATIONS.
2. WHEN JOINING TWO (2) SIGNS FOR ONE ARRAY, PROVIDE NEW SIZE 1 SUPPORT JUNCTION (TREE) AND SIZE 1 FACE INSERT PANEL JOINT (TRACK) OF THE CORRECT COLOR ADDED. DO NOT PROVIDE END PANELS IN THE MIDDLE OF THE ARRAY.
3. PROVIDE EXTERNAL DISCONNECT SWITCH IN WEATHERPROOF ENCLOSURE.
4. PROVIDE CURVED SIGN TOPS THAT PROVIDE ADDITIONAL SIGN PANEL SUPPORT IF AVAILABLE BY MANUFACTURER.

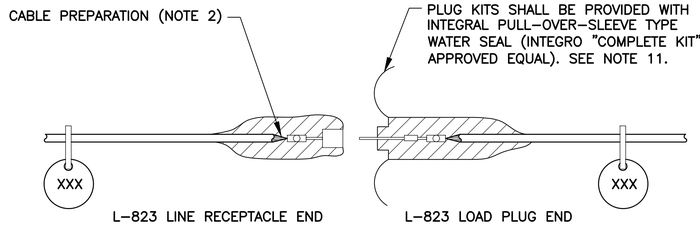
921 TYP L-858 TAXIWAY GUIDANCE SIGN
NTS



A TYP POWER/SUPPORT LEG
NTS



FOR SPLICES INSIDE HANDHOLES



FOR SPLICES INSIDE 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, NO STRAIGHT-THROUGH ALLOWED.
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 & 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 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.
10. PRIMARY CONNECTOR KITS TYPES SHOWN ARE PER COP AIRFIELD MAINTENANCE STANDARDS.
11. IF AMERACE "SUPER" KITS ARE USED, COP REQUIRES REMOVAL OF ALL SLIP FIT PLASTIC SLEEVES USED TO SEAL KIT ENDS TO CABLE FROM THE L-824 CABLE.

925 TYP TYPICAL 5KV CABLE SPLICE
NTS

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Professional Engineer (Electrical)
CERTIFICATE NO.
36896
CATHERINE M. ALCORN
Date Signed 6-14-2024
Not Valid Unless Signed

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYPASS
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

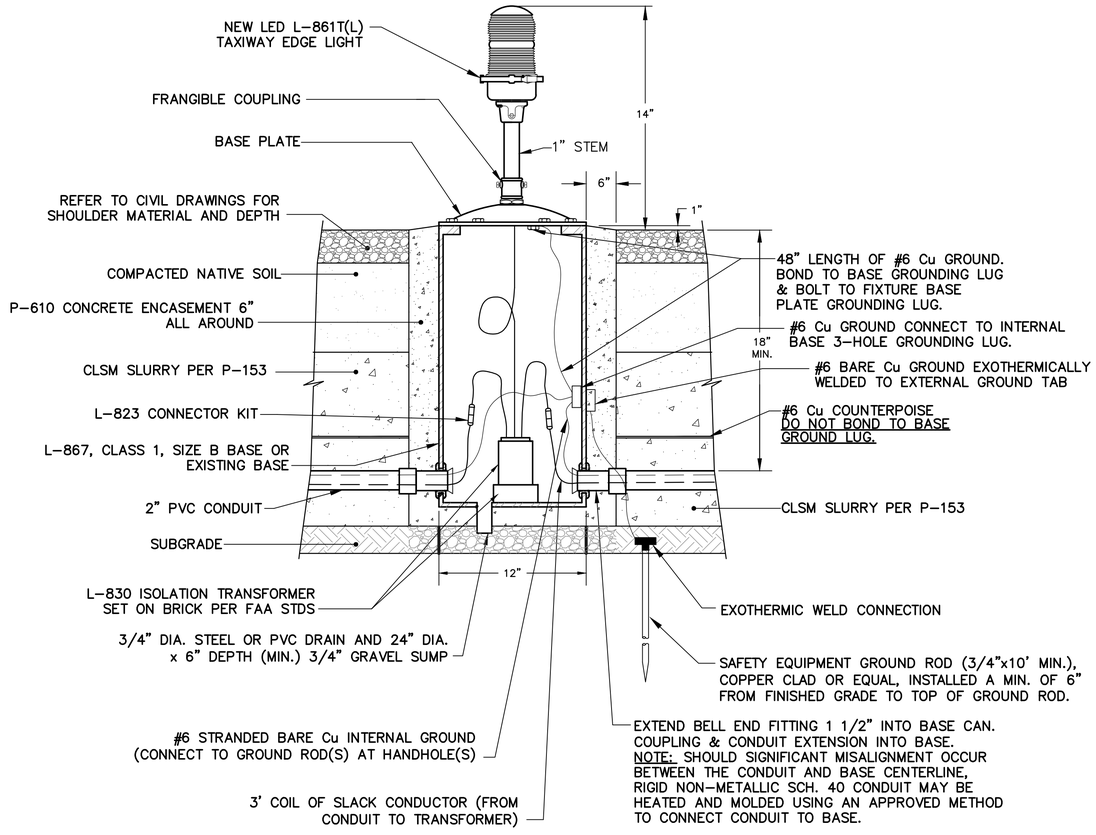
ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE
ELECTRICAL DETAILS -
L-858 AIRFIELD GUIDANCE
SIGN AND 5KV CABLE SPLICE

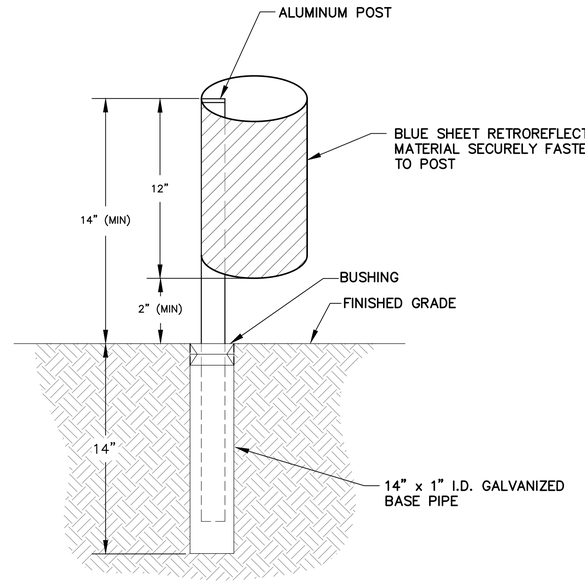
SHEET REFERENCE NUMBER:
EA-507

SHEET 51 OF 56

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891 TYP ELEVATED TAXIWAY EDGE LIGHT DETAIL
NTS



893 TYP L-853 TAXIWAY RETROREFLECTIVE MARKER
NTS

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

NO	REVISIONS / SUBMISSIONS	DATE

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Registered Professional Engineer (Electrical)
CERTIFICATE NO.
36696
CATHERINE M.
ALCORN
Date Signed 6-14-2024

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

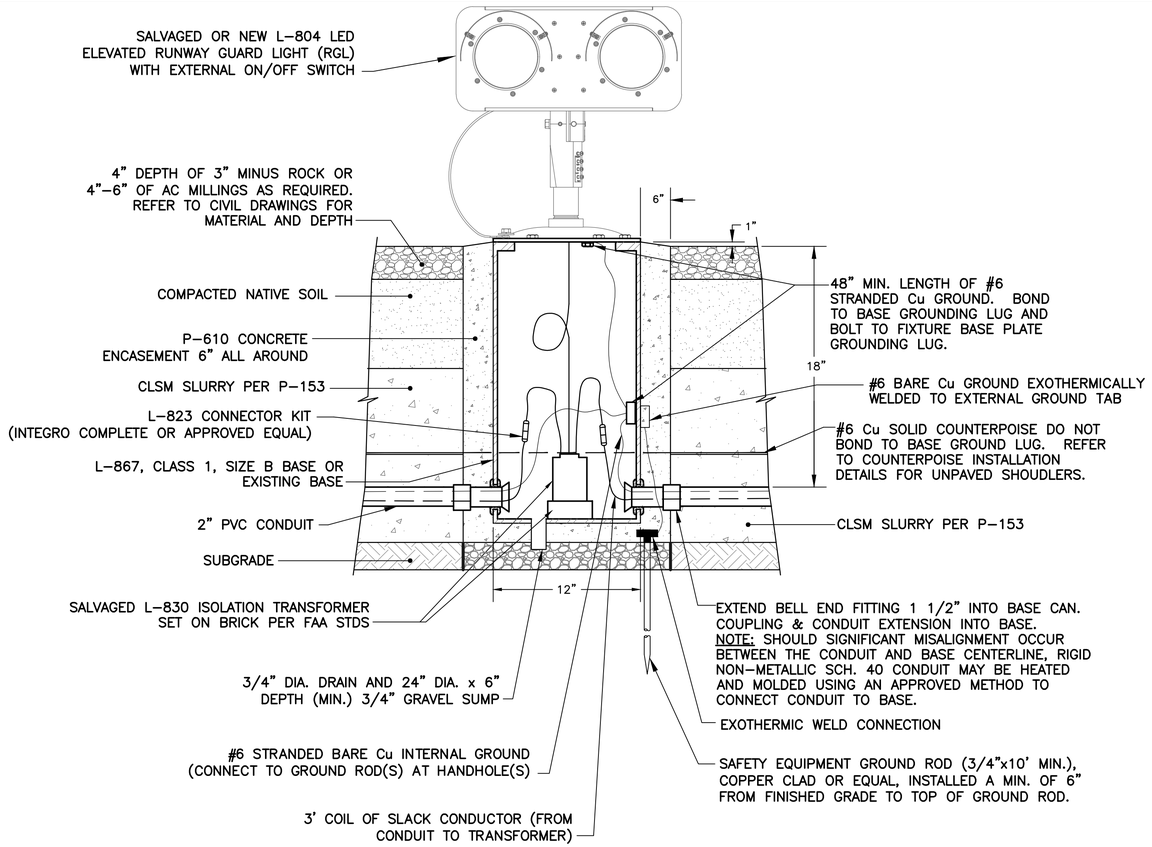
SHEET OVERVIEW TITLE

ELECTRICAL DETAILS -
ELEVATED TAXIWAY EDGE LIGHT

SHEET REFERENCE NUMBER:
EA-508

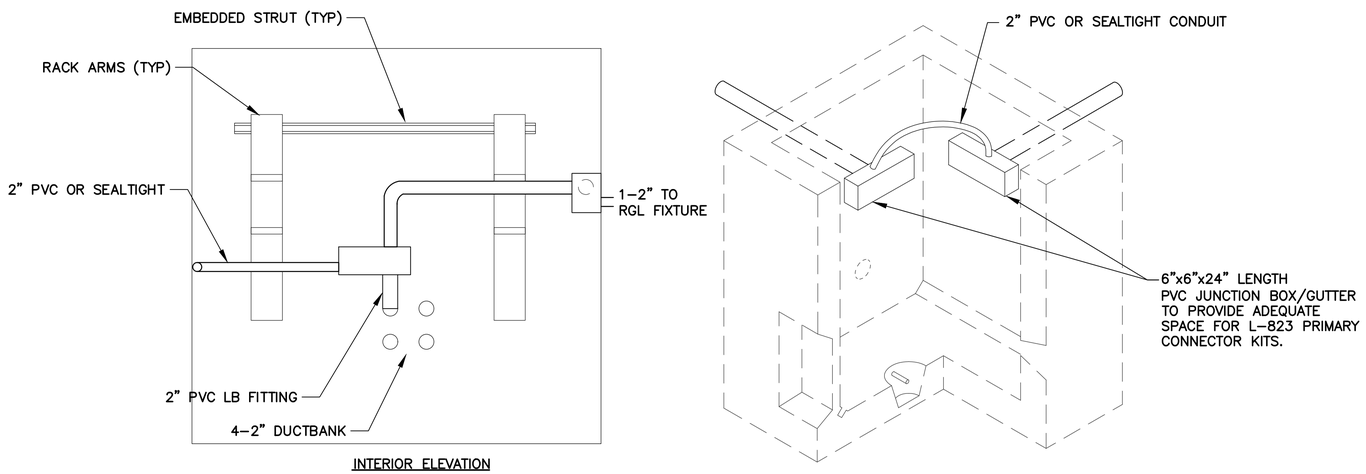
SHEET 52 OF 56

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870 TYP ELEVATED RUNWAY GUARD LIGHT DETAIL

NTS

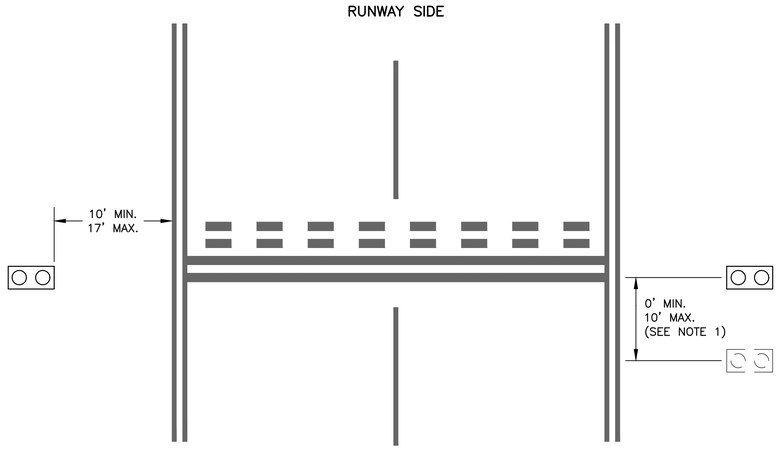


571 TYP RGL CIRCUIT ISOLATION SYSTEM DETAIL

NTS

NOTES:

1. RUNWAY GUARD LIGHT CIRCUITS SHALL BE CONTAINED IN PVC JUNCTION BOXES, CONNECTED WITH 2" PVC CONDUIT OR SEALTIGHT CONDUIT BETWEEN RGL CIRCUIT CONDUIT ENTRIES WITHIN ALL MANHOLES/HANDHOLES.
2. INSTALL NEW CONDUITS WITHIN HANDHOLES AGAINST WALLS AND ROUTE AS REQUIRED TO AVOID RACK ARMS.
3. CONNECT NEW RGL CONDUIT TO EXISTING PVC JUNCTION BOXES AT EXISTING HANDHOLES.

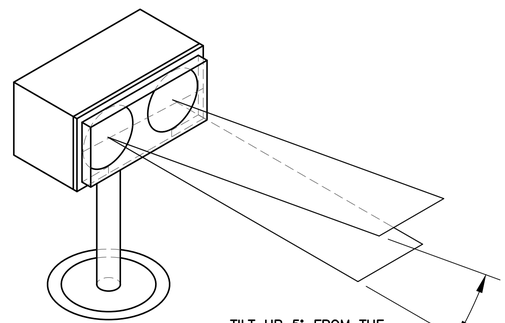


876 TYP RUNWAY GUARD LIGHT CONFIGURATION

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.



871 TYP ELEVATED RUNWAY GUARD LIGHT AIMING DETAIL

NTS

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.

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NO	REVISIONS / SUBMISSIONS	DATE

PRIME CONSULTANT: TRACE CONSULTING, 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

SUB CONSULTANT: CR engineers, 16719 East Palisades Blvd., Suite 202, Fountain Hills, AZ 85268, Phone: (480) 816-5541, Fax: (480) 816-5540, www.crenlg.com

Registered Professional Engineer (Electrical), CATHERINE M. ALCORN, 36986, Date Signed 6-14-24

PHX DVT GYR
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by:	SW
Drawn by:	JBW
Checked by:	CA
Date:	06/14/2024
Dwg scale:	NTS

ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE: ELECTRICAL DETAILS - RUNWAY GUARD LIGHT

SHEET REFERENCE NUMBER: EA-509

SHEET 53 OF 56

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SIGN NUMBER	SIGN WITH FACE DESIGNATIONS	FACE A MESSAGE	FACE B MESSAGE	FACE A COLOR	FACE B COLOR	SIZE	STYLE	CLASS	SHEET NUMBER	SCOPE OF WORK
SGN–1	A B C D6 →	EXISTING	BLANK | BLANK EXISTING	EXISTING	B | B EXISTING	EXISTING			EA–101	INSTALL NEW SIGN PANELS IN EXISTING SIGN AS SHOWN.
SGN–2	A B ← C7 C	BLANK	← | C7 | C	B	B/Y | B/Y | Y/B	1	2	2	EA–102	NEW L–858(L), SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–3	A B C7 7R - 25L	EXISTING	C7 | 7R | –2 | 5L	EXISTING	Y/B | W/R | W/R | W/R	1	2	2	EA–102	INSTALL SALVAGED EXISTING SIGN ON NEW SIGN BASE AND INSTALL NEW SIGN PANELS AS SHOWN.
SGN–4	A B C7 →	BLANK	C7 | →	B	B/Y | B/Y	1	2	2	EA–102	NEW L–858(L), SIZE 1, 2–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–5	A B ←C7	BLANK	← | C7	B	B/Y | B/Y	1	2	2	EA–102	NEW L–858(L), SIZE 1, 2–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–6	A B C7 ← C →	BLANK	C7 | ← B | →	B	Y/B | B/Y | B/Y	1	2	2	EA–102	NEW L–858(L), SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–7	A B C C7 →	BLANK	C | C7 | →	B	Y/B | Y/B | B/Y	1	2	2	EA–102	NEW L–858(L), SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–8	A B C D8 →	BLANK	C | D8 | →	B	Y/B | Y/B | B/Y	1	2	2	EA–104	NEW L–858(L), SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–9	A B ←C10 C	BLANK	← C | 10 | C	B	B/Y | B/Y | Y/B	1	2	2	EA–104	NEW L–858(L), SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–10	A B C 10 7R - 25L	BLANK	C | 10 7R | –2 | 5L	B	Y/B | Y/B W/R | W/R | W/R	EXISTING			EA–104	INSTALL SALVAGED EXISTING SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER AND SIZE 1, 2–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW DOUBLE–ENDED SIGN BASE WITH ASPHALT MAINTENANCE PAD. INSTALL NEW SIGN PANELS AS SHOWN.
SGN–11	A B C10→	EXISTING	C1 | 0 →	EXISTING	B/Y | B/Y	EXISTING			EA–104	INSTALL SALVAGED EXISTING SIZE 1, 2–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. INSTALL NEW SIGN PANELS AS SHOWN.
SGN–12	A B ←C10	BLANK	← C | 10	B	Y/B | Y/B	1	2	2	EA–104	NEW L–858(L), SIZE 1, 2–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–13	A B C 10 ← C →	BLANK	C | 10 | ← C | →	B	Y/B | Y/B | B/Y | B/Y	1	2	2	EA–104	NEW L–858(L), SIZE 1, 4–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.
SGN–14	A B C C10→	EXISTING	C | C1 | 0 →	EXISTING	Y/B | B/Y | B/Y	EXISTING			EA–104	INSTALL SALVAGED EXISTING SIZE 1, 3–MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD. INSTALL NEW SIGN PANELS AS SHOWN.

NOTES

1. MODULE SIZES ARE GIVEN FOR ESTIMATION ONLY AND ARE SUBJECT TO CHANGE BY SIGN MANUFACTURER
2. CONTRACTOR SHALL PERFORM AND SUBMIT COMPLETE FIELD SURVEY/RECORD DRAWINGS FOR ALL EQUIPMENT PRIOR TO FINAL PAYMENT.

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Professional Engineer (Electrical) CERTIFICATE NO. 36696 CATHERINE M. ALCORN Date Signed 6-14-24

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT EYR
CITY OF PHOENIX AVIATION DEPARTMENT
DVT TAXIWAY C
CONNECTORS C4-C10
(GMP 1 - C7 AND C10)
AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE
AIRFIELD GUIDANCE SIGN SCHEDULE

SHEET REFERENCE NUMBER:
EA-601

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NEW TAXIWAY EDGE LIGHT LOCATIONS

FIXTURE #	STATION	OFFSET	CIRCUIT	LAMP	TRANSFORMER	TYPE
TEL–1	240+01.57	30.19' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–2	241+13.05	33.96' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–3	241+51.83	44.53' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–4	702+55.21	55.21' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–5	702+81.11	48.13' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–6	703+07.01	41.05' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–7	703+32.90	33.97' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–8	703+50.00	33.24' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–9	703+67.10	33.97' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–10	703+90.37	40.33' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–11	704+13.64	46.69' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–12	704+36.91	53.06' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–13	704+36.91	53.06' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–14	704+13.64	46.69' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–15	703+90.37	40.33' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–16	703+67.10	33.97' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–17	703+50.00	33.24' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–18	703+32.90	33.97' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–19	703+07.01	41.05' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–20	702+81.11	48.13' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–21	702+55.21	55.21' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–22	243+40.39	44.53' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–23	243+79.17	33.97' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–24	244+60.01	30.50' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–25	245+19.78	29.67' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–26	240+01.57	30.11' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–27	241+13.05	30.13' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–28	242+01.76	30.15' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–29	242+90.46	30.17' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–30	243+79.17	30.18' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–31	256+01.08	30.55' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–32	256+42.37	32.32' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–33	257+04.34	33.97' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–34	257+43.19	44.59' LT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–35	1002+55.21	55.21' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–36	1002+81.11	48.13' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–37	1003+07.01	41.05' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–38	1003+32.90	33.97' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–39	1003+50.00	33.24' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–40	1003+67.10	33.97' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–41	1003+90.44	40.35' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–42	1004+13.78	46.73' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–43	1004+37.13	53.12' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)

NEW TAXIWAY EDGE LIGHT LOCATIONS

FIXTURE #	STATION	OFFSET	CIRCUIT	LAMP	TRANSFORMER	TYPE
TEL–44	1004+37.13	53.12' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–45	1004+13.78	46.73' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–46	1003+90.44	40.35' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–47	1003+67.10	33.97' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–48	1003+50.00	33.24' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–49	1003+32.90	33.97' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–50	1003+07.01	41.05' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–51	1002+81.11	48.13' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–52	1002+55.21	55.21' RT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–53	259+31.30	44.59' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–54	259+70.31	33.96' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–55	260+86.61	30.00' LT	TAXIWAY C EAST	LED	10/15W	L–861T(L)
TEL–56	259+70.31	30.22' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T
TEL–57	260+86.61	30.15' RT	TAXIWAY C EAST	INCANDESCENT	30/45W	L–861T

EQUIPMENT LOCATION STANDARDS TABLE

(PROVIDED FOR REFRENCE ONLY)

EQUIPMENT TYPE	FAA LOCATION STANDARD	NOTES
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)

GENERAL NOTES

1. EQUIPMENT NUMBERS SHOWN ARE FOR CONSTRUCTION REFERENCE ONLY. COORDINATE WITH AIRPORT MAINTENANCE FOR LABELING OF ALL EQUIPMENT.
2. 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 ARE IN–LINE WITH EXISTING TAXIWAY EDGE LIGHTING IF APPLICABLE – 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.
3. OFFSETS GIVEN FOR EACH EQUIPMENT TYPE ARE MEASURED FROM NEAREST TAXIWAY CENTERLINE (ALIGNMENT).

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 36696 CATHERINE M. ALCORN Date Signed 6-14-24

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NO	REVISIONS / SUBMISSIONS	DATE

PHX DVT BWY
CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)

AV31000096 ADOT

Designed by: SW
Drawn by: JBW
Checked by: CA
Date: 06/14/2024
Dwg scale: NTS

ADOT GRANT NUMBER(S):
E2S4V 01C & E3S3K 01C

SHEET OVERVIEW TITLE

EQUIPMENT DATA TABLES

SHEET REFERENCE NUMBER:
EA-602

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NEW HANDHOLE LOCATIONS

HH–X	STATION	OFFSET	SIZE
HH–1	241+74.44	70.60' LT	4'x4'x4'
HH–2	243+17.51	71.60' LT	4'x4'x4'
HH–3	257+65.88	71.74' LT	4'x4'x4'
HH–4	259+05.35	68.71' LT	4'x4'x4'

NEW JUNCTION CAN LOCATIONS

JC–#	STATION	OFFSET	TYPE (SIZE)
JC–1	41+54.10	60.00' RT	L–867B (12" DIA)
JC–2	43+28.18	59.95' RT	L–867B (12" DIA)
JC–3	57+57.83	59.92' RT	L–867B (12" DIA)
JC–4	59+25.20	59.93' RT	L–867B (12" DIA)

NEW RETROFLECTIVE TAXIWAY EDGE MARKER LOCATIONS

RRFL–#	STATION	OFFSET
RRFL–1	235+75.74	48.49' LT
RRFL–2	236+08.62	34.63' LT
RRFL–3	236+43.97	29.87' LT

NEW RUNWAY GUARD LIGHT LOCATIONS

RGL–#	STATION	OFFSET
RGL–1	241+85.94	53.97' LT
RGL–2	243+06.30	54.00' LT
RGL–3	257+77.53	54.10' LT
RGL–4	258+97.13	54.87' LT
RGL–5	235+51.54	69.97' LT

NEW AIRFIELD GUIDANCE SIGN LOCATIONS

SIGN	STATION	OFFSET
SGN–1	EXISTING	
SGN–2	241+55.15	54.11' LT
SGN–3	702+54.00	66.17' LT
SGN–4	41+61.39	63.25' RT
SGN–5	43+20.90	63.25' RT
SGN–6	702+53.99	66.20' RT
SGN–7	243+10.18	37.13' RT
SGN–8	256+76.77	41.78' LT
SGN–9	257+44.02	53.49' LT
SGN–10	1002+54.13	65.72' LT
SGN–11	57+65.11	63.17' RT
SGN–12	59+16.43	63.25' RT
SGN–13	1002+54.87	65.89' RT
SGN–14	258+97.45	36.22' RT

EQUIPMENT LOCATION STANDARDS TABLE

(PROVIDED FOR REFRENCE ONLY)

EQUIPMENT TYPE	FAA LOCATION STANDARD	NOTES
RETROREFLECTIVE EDGE MARKER	2'–10'	MEASURE TO CENTER OF MARKER – STATION/OFFSET GIVEN IS CENTER OF MARKER (SEE FAA AC 150/5340–30)
HANDHOLE		STATION/OFFSET GIVEN IS CENTER OF HANDHOLE LID
SIZE 1 AIRFIELD GUIDANCE SIGNS	10' – 20' (SEE NOTE 3)	MEASURE TO SIGN EDGE CLOSEST TO TAXIWAY/RUNWAY EDGE/OUTER TAXIWAY/RUNWAY EDGE MARKING (SEE FAA AC 1505340–18)
JUNCTION CAN		STATION/OFFSET GIVEN IS CENTER OF JUNCTION CAN LID
RUNWAY GUARD LIGHT (RGL)	10' – 17' (NEAR SIDE OF INSTALLED FIXTURE)	MEASURE FROM TAXIWAY EDGE/OUTER TAXIWAY EDGE MARKING. STATION/OFFSET GIVEN IS CENTER OF BASE CAN ON WHICH RGL FIXTURE IS MOUNTED. (SEE FAA AC 150/5340–30)

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3. CONTRACTOR TO ENSURE AIRFIELD GUIDANCE SIGN LOCATIONS FALL WITHIN FAA SPECIFICATIONS. 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.

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SHEET OVERVIEW TITLE

EQUIPMENT DATA TABLES

SHEET REFERENCE NUMBER:
EA-603

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