

# 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 FAA/ADOT**

ADOT GRANT NUMBER **E2S4V 01C & E3S3K 01C**

MAYOR  
KATE GALLEG0

VICE MAYOR  
DEBRA STARK

CITY COUNCIL

|                             |                                       |
|-----------------------------|---------------------------------------|
| DISTRICT NO. 1 ANN O'BRIEN  | DISTRICT NO. 5 BETTY GUARDADO         |
| DISTRICT NO. 2 JIM WARING   | DISTRICT NO. 6 KEVIN ROBINSON         |
| DISTRICT NO. 3 DEBRA STARK  | DISTRICT NO. 7 YASSAMIN ANSARI        |
| DISTRICT NO. 4 LAURA PASTOR | DISTRICT NO. 8 KESHA HODGE WASHINGTON |

PHOENIX AVIATION ADVISORY BOARD

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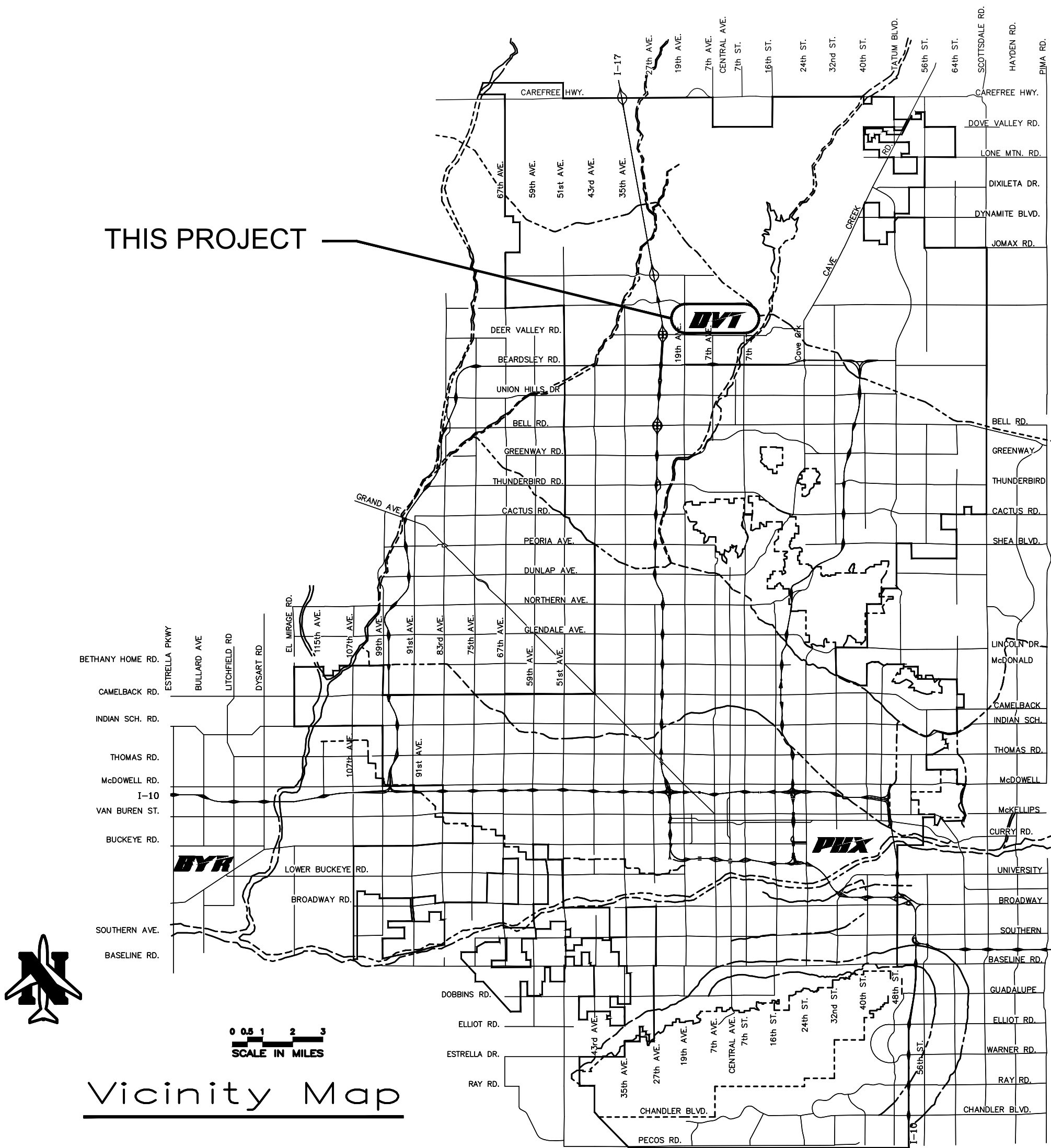
APPROVALS

DEPUTY AVIATION DIRECTOR  
DESIGN & CONSTRUCTION SERVICES DIVISION

DATE

CITY ENGINEER

DATE





| APPROXIMATE QUANTITY SUMMARY |              |                                                                                                       |           |                      |
|------------------------------|--------------|-------------------------------------------------------------------------------------------------------|-----------|----------------------|
| LINE NO.                     | ITEM NO.     | DESCRIPTION                                                                                           | UNIT      | APPROXIMATE QUANTITY |
| 1                            | SP-41-8.1    | AIRPORT SAFETY AND SECURITY (M-003)                                                                   | LS        | 1                    |
| 2                            | C-100        | CONTRACTOR QUALITY CONTROL PROGRAM (CQPM)                                                             | LS        | 1                    |
| 3                            | SP-42-5.1    | LOCATION OF UNDERGROUND UTILITIES (U-200)                                                             | LS        | 1                    |
| 4                            | SP-11.1      | PROJECT FIELD OFFICE                                                                                  | LS        | 1                    |
| 5                            | SP-30.1      | CONSTRUCTION SURVEY LAYOUT                                                                            | LS        | 1                    |
| 6                            | SP-31.1      | MISCELLANEOUS REMOVALS AND OTHER WORK (ALLOWANCE)                                                     | ALLOWANCE | 1                    |
| 7                            | SP-33.1      | ADJUST EXISTING STRUCTURE TO FINISHED GRADE                                                           | EA        | 1                    |
| 8                            | SP-34.1      | UNFORESEEN UTILITY LOCATING (ALLOWANCE)                                                               | ALLOWANCE | 1                    |
| 9                            | SP-35.1      | EXISTING UTILITY RELOCATIONS (ALLOWANCE)                                                              | ALLOWANCE | 1                    |
| 10                           | SP-37.1      | REMOVE, HAUL, AND STOCKPILE CRUSHED AGGREGATE SLOPE PROTECTION                                        | SY        | 20,398               |
| 11                           | SP-38.1      | HAUL AND PLACE CRUSHED AGGREGATE SLOPE PROTECTION                                                     | SY        | 18,604               |
| 12                           | P-101-5.1a   | REMOVE ASPHALT CONCRETE PAVEMENT FULL DEPTH                                                           | SY        | 2,717                |
| 13                           | C-105        | MOBILIZATION (MAXIMUM 4%)                                                                             | LS        | 1                    |
| 14                           | P-151-4.1    | CLEARING AND GRUBBING                                                                                 | LS        | 1                    |
| 15                           | P-152-4.1    | UNCLASSIFIED EXCAVATION                                                                               | CY        | 1,550                |
| 16                           | SP-40.1      | OVER EXCAVATION OF UNSUITABLE MATERIALS AND BACKFILL WITH SELECT MATERIAL (ALLOWANCE)                 | CY        | 37                   |
| 17                           | P-155-8.1    | LIME-TREATED SUBGRADE (12", 5.5%)                                                                     | SY        | 6,125                |
| 18                           | C-102-6.1    | STORMWATER POLLUTION PREVENTION PLAN                                                                  | LS        | 1                    |
| 19                           | P-209-5.1    | CRUSHED AGGREGATE BASE COURSE (6")                                                                    | SY        | 5,729                |
| 20                           | P-401-8.1    | ASPHALT SURFACE COURSE                                                                                | TON       | 1,608                |
| 21                           | P-603-5.1    | EMULSIFIED ASPHALT TACK COAT                                                                          | TON       | 18                   |
| 22                           | P-620-5.2b.1 | YELLOW PAVEMENT MARKING                                                                               | SF        | 3,975                |
| 23                           | P-620-5.2b.2 | WHITE PAVEMENT MARKING                                                                                | SF        | 750                  |
| 24                           | P-620-5.2b.3 | RED PAVEMENT MARKING                                                                                  | SF        | 317                  |
| 25                           | P-620-5.2b.4 | BLACK PAVEMENT MARKING                                                                                | SF        | 3,389                |
| 26                           | P-620-5.1a   | SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS                                           | SF        | 5,170                |
| 27                           | P-620-5.3c   | REFLECTIVE MEDIA                                                                                      | LS        | 1                    |
| 28                           | P-620-5.4d   | TEMPORARY MARKINGS                                                                                    | LS        | 1                    |
| 29                           | D-751-5.1    | CONSTRUCT TRIPLE CATCH BASIN PER PLANS, WITH CONCRETE APRON PER ADOT DETAIL C-15.80                   | EA        | 1                    |
| 30                           | D-751-5.2    | CONSTRUCT STORM DRAIN MANHOLE PER PLANS                                                               | EA        | 1                    |
| 31                           | D-701-5.1a   | 24 INCH RGRCP, CLASS V                                                                                | LF        | 14                   |
| 32                           | D-701-5.4    | 4 INCH HDPE UNDERDRAIN PIPE COMPLETE (INCLUDING POROUS BACKFILL AND FILTER FABRIC)                    | LF        | 20                   |
| 33                           | L-100-5.1    | REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN    | EA        | 18                   |
| 34                           | L-100-5.2    | REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN | EA        | 15                   |
| 35                           | L-100-5.3    | REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN     | EA        | 1                    |
| 36                           | L-100-5.4    | REMOVE AND SALVAGE EXISTING RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN  | EA        | 1                    |
| 37                           | L-100-5.5    | REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN    | EA        | 2                    |
| 38                           | L-100-5.6    | REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN | EA        | 2                    |
| 39                           | L-100-5.7    | REMOVE EXISTING JUNCTION CAN / PULL BOX                                                               | EA        | 2                    |
| 40                           | L-100-5.8    | EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR                                                    | LF        | 2,300                |
| 41                           | L-100-5.9    | REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN                                                          | LF        | 1,600                |
| 42                           | L-100-5.10   | EXCAVATE AND REMOVE EXISTING CONCRETE ENCASED DUCTBANK                                                | LF        | 100                  |
| 43                           | L-100-5.11   | REMOVE AND SALVAGE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, REMOVE CONCRETE SIGN BASE        | EA        | 5                    |
| 44                           | L-100-5.12   | REMOVE AND SALVAGE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, CONCRETE SIGN BASE TO REMAIN     | EA        | 4                    |
| 45                           | L-100-5.13   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE                                                       | EA        | 2                    |
| 46                           | L-100-5.14   | REMOVE SIGN PANELS FROM EXISTING AIRFIELD GUIDANCE SIGN                                               | EA        | 2                    |
| 47                           | L-100-5.15   | TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS                                                           | LS        | 1                    |
| 48                           | L-108-5.1    | L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, #6 GROUND                                                       | LF        | 3,145                |
| 49                           | L-108-5.2    | L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, #6 GROUND                                                       | LF        | 2,805                |
| 50                           | L-110-5.1    | SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)                         | LF        | 825                  |
| 51                           | L-110-5.2    | SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED                                                          | LF        | 2,780                |
| 52                           | L-110-5.3    | SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED                                                        | LF        | 220                  |
| 53                           | L-110-5.4    | MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED                                                        | LF        | 50                   |
| 54                           | L-110-5.5    | MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED                                                      | LF        | 235                  |
| 55                           | L-110-5.6    | MULTIPLE-WAY, (2) - 4" CONDUIT, SLURRY ENCASED                                                        | LF        | 185                  |
| 56                           | L-110-5.7    | MULTIPLE-WAY, (2) - 4" CONDUIT, CONCRETE ENCASED                                                      | LF        | 95                   |
| 57                           | L-115-5.1    | NEW HANDHOLE, PREFABRICATED CONCRETE 4'X4'X4' WITH AIRCRAFT RATED LID, FURNISHED AND INSTALLED        | EA        | 4                    |
| 58                           | L-115-5.2    | PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE            | EA        | 4                    |
| 59                           | L-115-5.3    | NEW L-867B JUNCTION CAN WITH STEEL BLANK COVER                                                        | EA        | 4                    |
| 60                           | 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                    |

| APPROXIMATE QUANTITY SUMMARY |            |                                                                                                                                  |      |                      |
|------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|------|----------------------|
| LINE NO.                     | ITEM NO.   | DESCRIPTION                                                                                                                      | UNIT | APPROXIMATE QUANTITY |
| 61                           | L-125-5.2  | INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN                                                    | EA   | 4                    |
| 62                           | 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                    |
| 63                           | 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                    |
| 64                           | 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                    |
| 65                           | 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                    |
| 66                           | 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                    |
| 67                           | 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                    |
| 68                           | 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                    |
| 69                           | L-125-5.10 | INSTALL NEW SIZE 1 SIGN PANELS IN EXISTING SIGNS                                                                                 | EA   | 10                   |
| 70                           | L-125-5.11 | NEW ELEVATED L-861T(L) LED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN                                    | EA   | 36                   |
| 71                           | L-125-5.12 | NEW ELEVATED L-861T QUARTZ TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN                                    | EA   | 21                   |
| 72                           | L-125-5.13 | NEW STEEL BLANK COVER PLATE ON EXISTING L-867B TAXIWAY EDGE LIGHT BASE                                                           | EA   | 16                   |
| 73                           | L-125-5.14 | SALVAGED RUNWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON EXISTING L-867 BASE CAN                                                  | EA   | 1                    |
| 74                           | L-125-5.15 | NEW L-853 RETRORREFLECTIVE TAXIWAY EDGE REFLECTOR - BLUE, STAKE MOUNTED                                                          | EA   | 3                    |
| 75                           | L-125-5.16 | NEW L-861T(L) LED TAXIWAY EDGE LIGHT W/ STEMS, FRANGIBLE COUPLINGS AND ISOLATION TRANSFORMERS (SPARES)                           | EA   | 3                    |

| 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        | CU-501          | GRADING & DRAINAGE DETAILS                        |
| 29        | 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                             |

|                                                                                                                                                            |                     |                                                                                                                                                                                                                                                                                      |                         |                                                                                                                                                                                                                                 |                                                                                                                                                                                     |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <div>SHEET OVERVIEW TITLE</div> <div>QUANTITY SUMMARY AND SHEET INDEX</div> <div>SHEET REFERENCE NUMBER:<br/><b>GI-002</b></div> <div>SHEET 02 OF 59</div> | Designed by: GS     | <div><div><div><div>CITY OF PHOENIX AVIATION DEPARTMENT</div><div>DVT TAXIWAY C</div><div>CONNECTORS C4-C10</div><div>(GMP 1 - C7 AND C10)</div></div><div>AV31000096 FAA/ADOT</div></div></div> | 90%<br>SUBMITTAL        | PRIME CONSULTANT                                                                                                                                                                                                                | <div><div>TRACE CONSULTING</div><div>155 E. Camelback Rd. Suite 100 Phoenix, AZ 85014</div></div> |                |
|                                                                                                                                                            | Drawn by: TR        |                                                                                                                                                                                                                                                                                      |                         | *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 |                                                                                                                                                                                     | SUB CONSULTANT |
|                                                                                                                                                            | Checked by: CJ      |                                                                                                                                                                                                                                                                                      |                         |                                                                                                                                                                                                                                 |                                                                                                                                                                                     |                |
|                                                                                                                                                            | Date: 01/2024       |                                                                                                                                                                                                                                                                                      |                         |                                                                                                                                                                                                                                 |                                                                                                                                                                                     |                |
|                                                                                                                                                            | Dwg scale: AS SHOWN |                                                                                                                                                                                                                                                                                      |                         |                                                                                                                                                                                                                                 |                                                                                                                                                                                     |                |
| ADOT GRANT NUMBER(S):<br>E2S4V 01C & E3S3K 01C                                                                                                             |                     | NO                                                                                                                                                                                                                                                                                   | REVISIONS / SUBMISSIONS | DATE                                                                                                                                                                                                                            |                                                                                                                                                                                     |                |



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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 IS TO 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 TAXIWAY EDGE 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 DAVID GORDON 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.



|                                                                                                                                                                                                                                     |                                                                        |                                                                                                                                          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|
| PRIME CONSULTANT                                                                                                                                                                                                                    | TRACER CONSULTING<br>2021 E. Jefferson St. Suite 101 Phoenix, AZ 85004 |                                                                                                                                          |  |
|                                                                                                                                                                                                                                     | SUB CONSULTANT                                                         |                                                                                                                                          |  |
| 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION                                                                                                                                                                                     |                                                                        |                                                                                                                                          |  |
| *PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-26, 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.* |                                                                        |                                                                                                                                          |  |
|                                                                                                                                                                                                                                     |                                                                        |                                                                                                                                          |  |
|                                                                                                                                                                                                                                     |                                                                        |                                                                                                                                          |  |
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|                                                                                                                                                                                                                                     |                                                                        |                                                                                                                                          |  |
|                                                                                                                                                                                                                                     |                                                                        | REVISIONS / SUBMISSIONS                                                                                                                  |  |
|                                                                                                                                                                                                                                     |                                                                        | NO                                                                                                                                       |  |
| PHX DVT BYR<br>CITY OF PHOENIX AVIATION DEPARTMENT<br>DVT TAXIWAY C<br>CONNECTORS C4-C10<br>(GMP 1 - C7 AND C10)<br>AV31000096 FAA/ADOT                                                                                             |                                                                        | DESIGNED BY: GS<br>DRAWN BY: TR<br>CHECKED BY: CJ<br>DATE: 01/2024<br>DWG SCALE: AS SHOWN<br>ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C |  |
| GENERAL NOTES                                                                                                                                                                                                                       |                                                                        | SHEET OVERVIEW TITLE                                                                                                                     |  |
| SHEET<br>REFERENCE<br>NUMBER:<br>GI-003                                                                                                                                                                                             |                                                                        | SHEET<br>3 OF 59                                                                                                                         |  |



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| LEGEND                           |          |          |
|----------------------------------|----------|----------|
| DESCRIPTION                      | EXISTING | PROPOSED |
| CONCRETE SIGN BASE               |          |          |
| TAXIWAY EDGE LIGHT               |          |          |
| ELECTRICAL CAN COVER             |          |          |
| RUNWAY GUARD LIGHT               |          |          |
| SANITARY SEWER AND MANHOLE       |          |          |
| STORM DRAIN, MANHOLE & INLET     |          |          |
| RUNWAY/TAXIWAY CENTERLINE        |          |          |
| CHAIN LINK FENCE                 |          |          |
| MAJOR CONTOUR LINES              |          |          |
| MINOR CONTOUR LINES              |          |          |
| FIBER OPTIC                      |          |          |
| GRADE BREAK                      |          |          |
| FLOW LINE                        |          |          |
| APS MANHOLE                      |          |          |
| MONITORING WELL                  |          |          |
| WATER LINE                       |          |          |
| COMMUNICATION                    |          |          |
| GAS LINE                         |          |          |
| FAA                              |          |          |
| ELECTRICAL                       |          |          |
| RUNWAY SAFETY AREA               |          |          |
| TAXIWAY SAFETY AREA              |          |          |
| RUNWAY PROTECTION ZONE           |          |          |
| TAXIWAY OBJECT FREE AREA         |          |          |
| RUNWAY OBJECT FREE AREA          |          |          |
| RUNWAY OBSTACLE FREE ZONE        |          |          |
| PROTECT IN PLACE NOTE            |          |          |
| ADJUSTMENT OR REMOVAL NOTE       |          |          |
| CONSTRUCTION NOTE                |          |          |
| SWPPP NOTE                       |          |          |
| PAVEMENT MARKING NOTE            |          |          |
| SPOT ELEVATION                   |          |          |
| SPOT ELEVATION-CATCH BASIN GRATE |          |          |
| SAWCUT FULL DEPTH                |          |          |
| 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 <sub>50</sub> | 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                                        |



PRIME CONSULTANT

**TRACE**  
CONSULTING

1201 E. Jefferson St., Suite 10 Phoenix, AZ 85035

SUBMITTAL

PRELIMINARY

CONSTRUCTION

90%

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, THESE PLANS ARE FOR INFORMATION 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 FAA/ADOT**

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

SHEET OVERVIEW TITLE

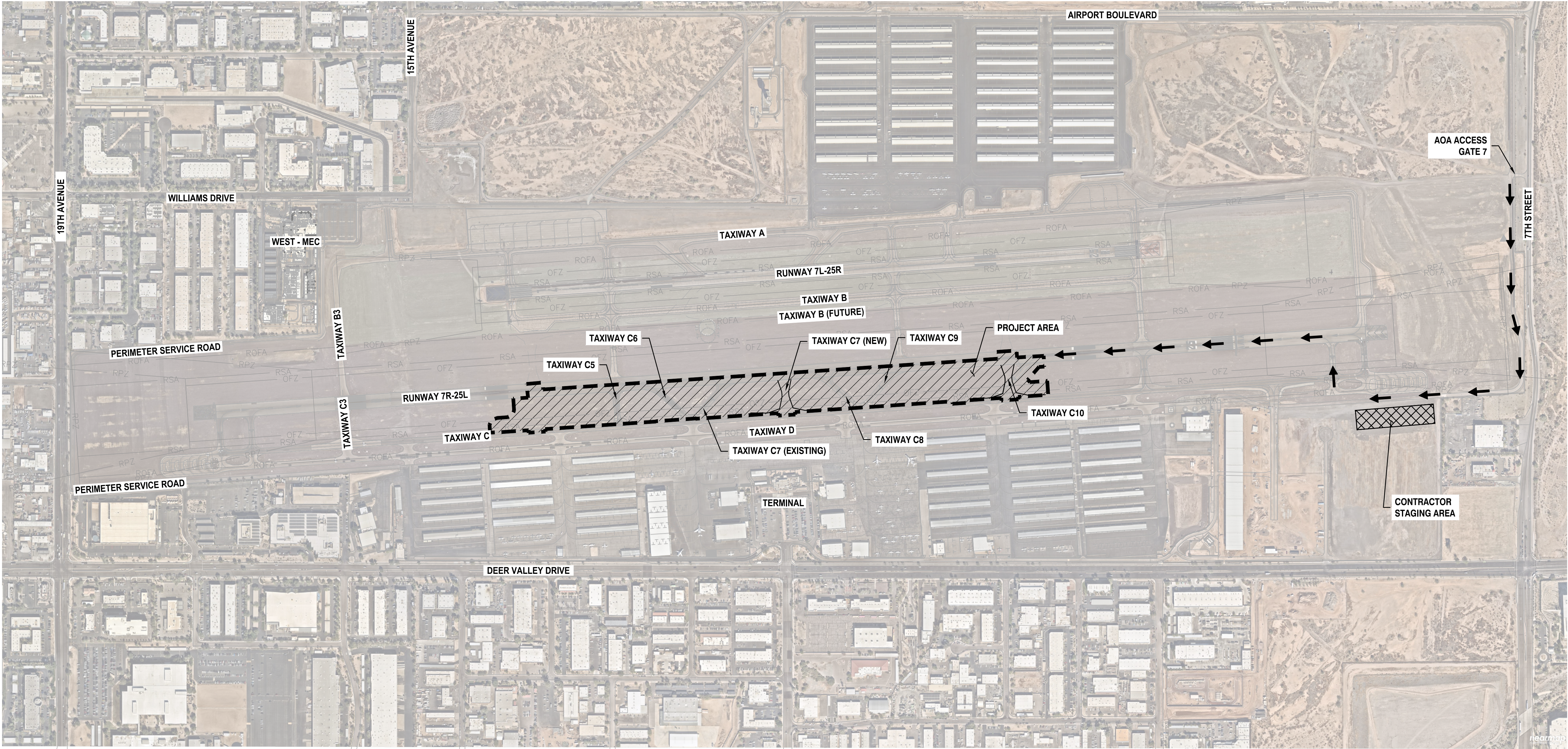
**LEGEND AND ABBREVIATIONS**

SHEET REFERENCE NUMBER:  
**GI-004**

SHEET 04 OF 59



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LEGEND

CONTRACTOR HAUL ROUTE

CONTRACTOR STAGING/STOCKPILE AREA

PROJECT AREA

- NOTES:
- AREAS SHOWN ARE INTENDED TO BE AN APPROXIMATE GEOGRAPHICAL REPRESENTATION.
  - 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.
  - 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.
  - CONTRACTOR TO ENSURE THAT NO CONSTRUCTION TRAFFIC ENTERING SITE BACKS UP ON OR BLOCKS ANY PUBLIC STREET.
  - ANY EXISTING PAVEMENT AREA ALONG ANY HAUL ROUTE SHALL BE ADEQUATELY PLATED PER CIVIL TECHNICAL SPECIFICATION ITEM M-003 PRIOR TO ANY HAULING ACTIVITIES.

SCALE: 1"=400'

PRIME CONSULTANT  
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CONSULTING  
201 E. Jefferson St., Suite 1 Phoenix, AZ 85004

SUB CONSULTANT

90%  
SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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.

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

AV31000096 FAA/ADOT

Designed by: GS  
Drawn by: TR  
Checked by: CJ  
Date: 01/2024  
Dwg scale: AS SHOWN

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

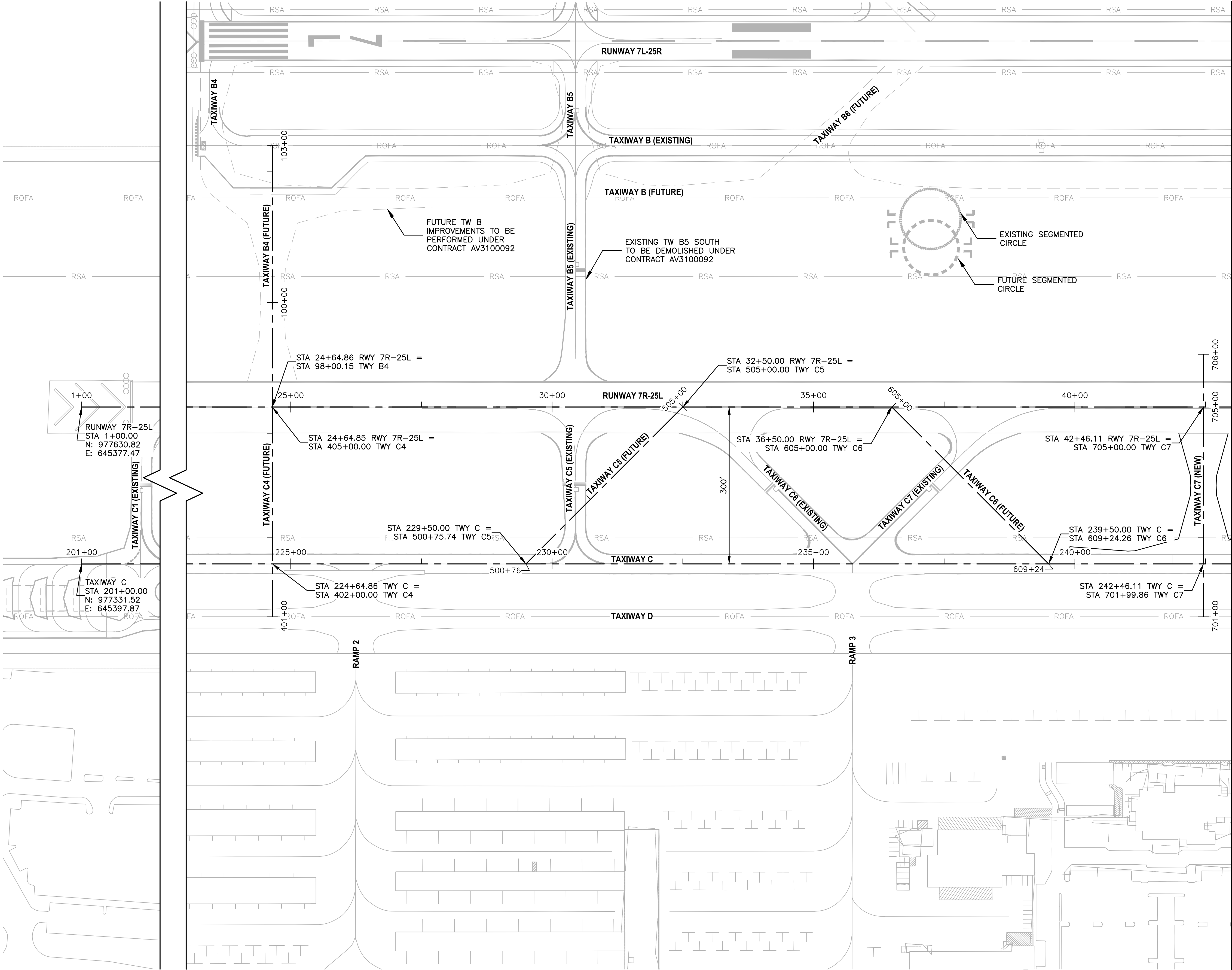
SHEET OVERVIEW TITLE

PROJECT LAYOUT PLAN

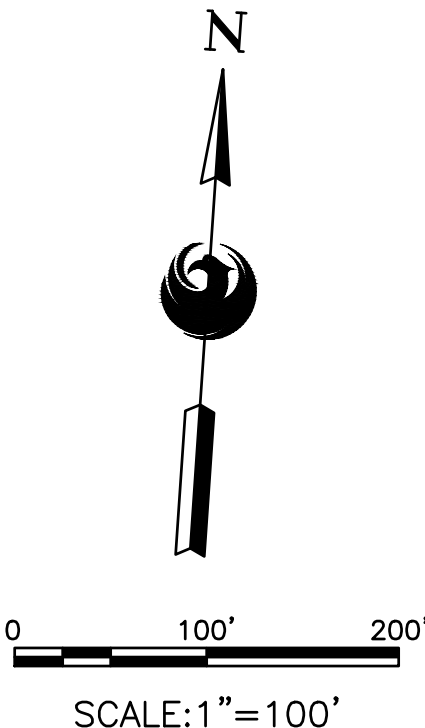
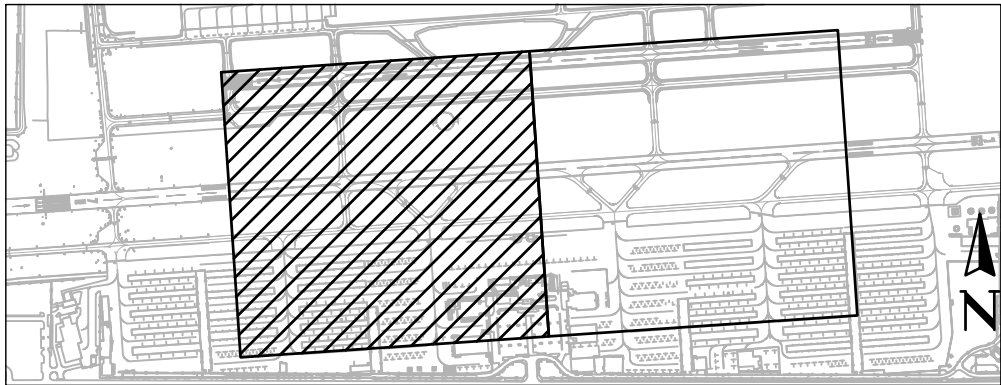
SHEET REFERENCE NUMBER:  
**GI-401**  
SHEET 5 OF 59



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MATCHLINE SEE SHEET GI-702



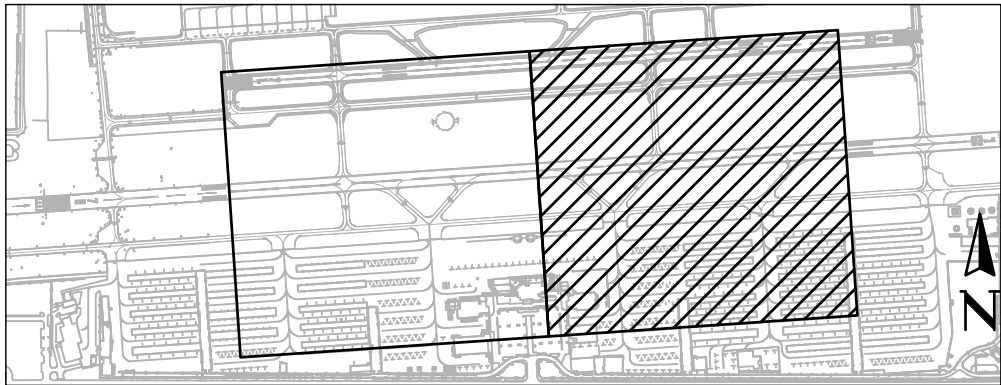
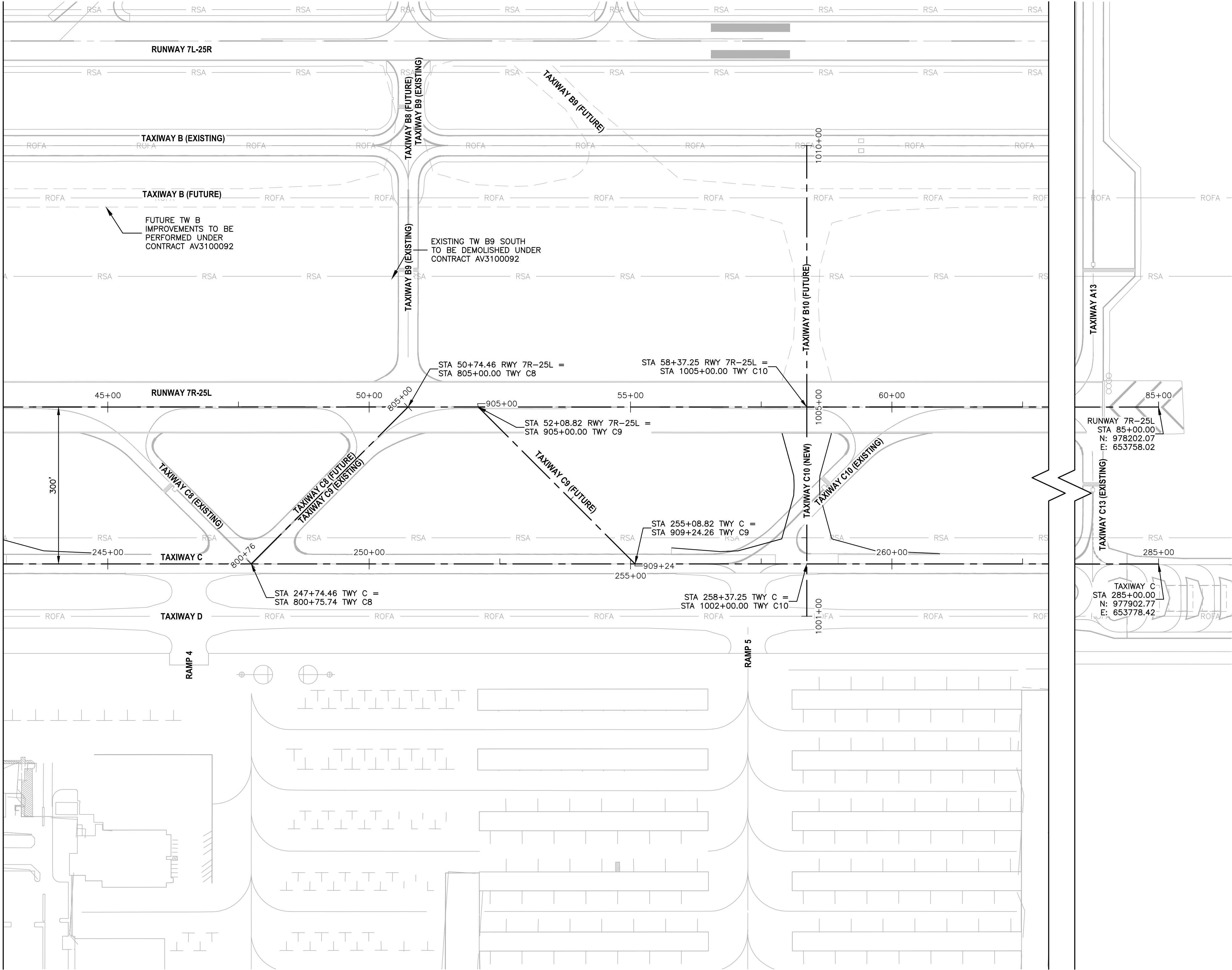
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|----------------------|----------------|------------------------------------------|----------------|------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------|------|
| SHEET OVERVIEW TITLE | ALIGNMENT PLAN | SHEET REFERENCE NUMBER:<br><b>GI-701</b> | SHEET 06 OF 59 | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>201 E. Jefferson St., Suite 1 Phoenix, AZ 85005 | SUB CONSULTANT | 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION | 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. | REVISIONS / SUBMISSIONS |           | DATE |
|                      |                |                                          |                |                                                                                                |                |                                                 |                                                                                                                                                                                                                                 | NO                      | REVISIONS | DATE |

|                 |              |                |               |                     |                                                |                                                                                                                           |                    |                                                                                                                                                                                                                             |                                                 |                |                                                                                                |
|-----------------|--------------|----------------|---------------|---------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------|------------------------------------------------------------------------------------------------|
| DESIGNED BY: CS | DRAWN BY: TR | CHECKED BY: CJ | DATE: 01/2024 | DWG SCALE: AS SHOWN | ADOT GRANT NUMBER(S):<br>E2S4V 01C & E3S3K 01C | CITY OF PHOENIX AVIATION DEPARTMENT<br><b>DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)</b><br>AV31000096 FAA/ADOT | <b>PHX DVT BYR</b> | 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. | 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION | SUB CONSULTANT | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>201 E. Jefferson St., Suite 1 Phoenix, AZ 85005 |
|                 |              |                |               |                     |                                                |                                                                                                                           |                    |                                                                                                                                                                                                                             |                                                 |                |                                                                                                |

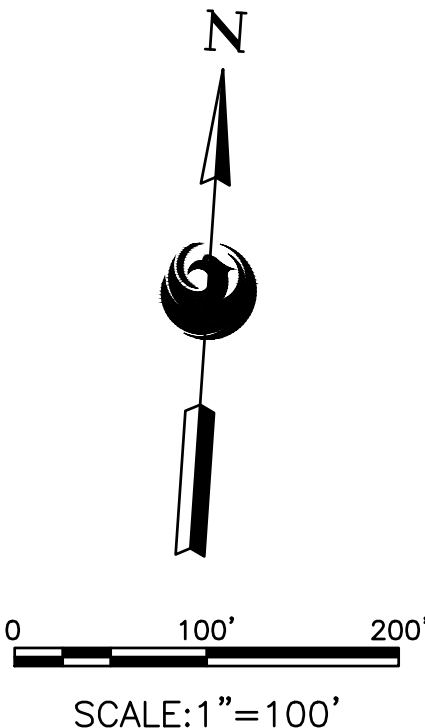


N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Draw\Draw\GMP1\ AV31000096-GI-702-GMP1.dwg - Feb. 01.2024 4:39pm

MATCHLINE SEE SHEET GI-701



KEY MAP



|                      |                |                                          |                |                                                                                                 |                |                                                 |                                                                                                                                                                                                                                 |                                                      |              |                |               |                     |                                             |  |
|----------------------|----------------|------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------|----------------|---------------|---------------------|---------------------------------------------|--|
| SHEET OVERVIEW TITLE | ALIGNMENT PLAN | SHEET REFERENCE NUMBER:<br><b>GI-702</b> | SHEET 07 OF 59 | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>201 E. Jefferson St., Suite 11 Phoenix, AZ 85005 | SUB CONSULTANT | 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION | 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. | DESIGNED BY: GS                                      | DRAWN BY: TR | CHECKED BY: CJ | DATE: 01/2024 | DWG SCALE: AS SHOWN | ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C |  |
|                      |                |                                          |                |                                                                                                 |                |                                                 |                                                                                                                                                                                                                                 | AV31000096 FAA/ADOT                                  |              |                |               |                     |                                             |  |
|                      |                |                                          |                |                                                                                                 |                |                                                 |                                                                                                                                                                                                                                 | DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10) |              |                |               |                     |                                             |  |



| <div style="display: flex; align-items: center; justify-content: center;"> <div> <div style="font-size: 1.2em; font-weight: bold; margin-bottom: 5px;">SURVEY CONTROL POINTS</div> <div style="font-size: 0.8em; font-weight: normal;">           A network of points used to establish the location and elevation of structures and features on a project.         </div> </div> </div> |           |           |           |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|------------------------------|
| 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    |

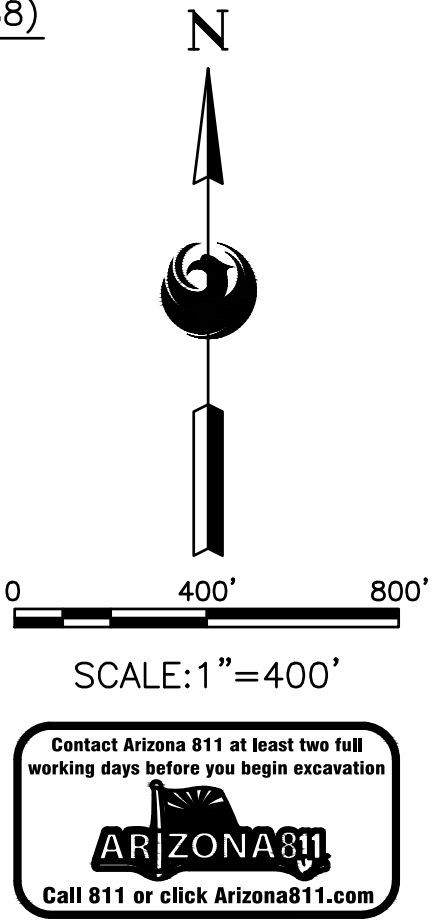
 1 SITE BENCHMARK  
 2 TEMPORARY BENCHMARK  
 BCF BRASS CAP FLUSH

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

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.

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

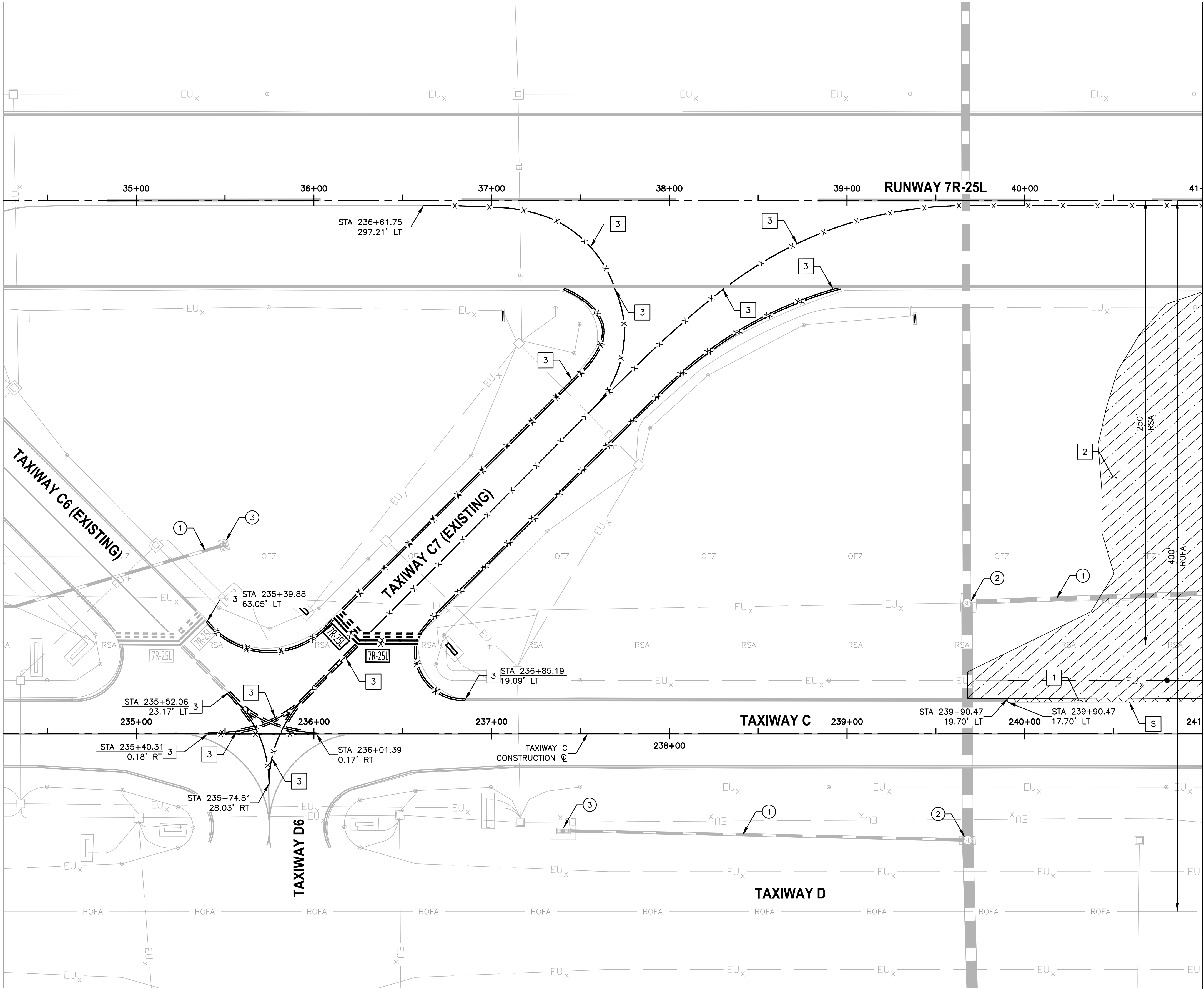
1. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF COORDINATES AND ELEVATIONS OF BENCHMARKS PRIOR TO CONSTRUCTION.
2. PRIMARY SITE BENCHMARK APPEARS TO HAVE BEEN OBLITERATED BY CONSTRUCTION BETWEEN AUGUST 2019 AND JANUARY 2023. NO MONUMENT FOUND DURING THE JANUARY 2023 SURVEY.



|                      |                     |                                                |                     |                                                |                                                                                                                                                                                                                        |                                                            |                                                                                                 |                |
|----------------------|---------------------|------------------------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|
| SHEET OVERVIEW TITLE | Designed by: GS     | SHEET<br>REFERENCE<br>NUMBER:<br><b>VF-401</b> | SURVEY CONTROL PLAN | ADOT GRANT NUMBER(S):<br>E2S4V 01C & E3S3K 01C | <div><b>PHX</b> <b>DVT BYA</b></div> <div>CITY OF PHOENIX AVIATION DEPARTMENT</div> <div><b>DVT TAXIWAY C</b><br/><b>CONNECTORS C4-C10</b><br/><b>(GMP 1 - C7 AND C10)</b></div> <div><b>AV31000096 FAA/ADOT</b></div> | 90%<br>SUBMITTAL<br>PRELIMINARY<br>NOT FOR<br>CONSTRUCTION | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>1201 E. Jefferson St. Suite 11 Phoenix, AZ 85014 | SUB CONSULTANT |
|                      | Drawn by: TR        |                                                |                     |                                                |                                                                                                                                                                                                                        |                                                            |                                                                                                 |                |
|                      | Checked by: CJ      |                                                |                     |                                                |                                                                                                                                                                                                                        |                                                            |                                                                                                 |                |
|                      | Date: 01/2024       |                                                |                     |                                                |                                                                                                                                                                                                                        |                                                            |                                                                                                 |                |
|                      | Dwg scale: AS SHOWN |                                                |                     |                                                |                                                                                                                                                                                                                        |                                                            |                                                                                                 |                |
|                      |                     |                                                |                     |                                                | NO                                                                                                                                                                                                                     | REVISIONS / SUBMISSIONS                                    | DATE                                                                                            |                |



N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Drawings\GMP1\ AV31000096-CD-101-GMP1.dwg - Feb 01,2024 4:40pm



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

0

30'

60'

SCALE:1"=30'

ARIZONA811

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

TRACER CONSULTING

1301 E. Jefferson St., Suite 101 Phoenix, AZ 85004

PRIME CONSULTANT

SUB CONSULTANT

90%

SUBMITTAL

PRELIMINARY

CONSTRUCTION

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| NO | REVISIONS / SUBMISSIONS | DATE |
|----|-------------------------|------|
|    |                         |      |
|    |                         |      |
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|    |                         |      |
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PHX DVT BYR

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C

CONNECTORS C4-C10

(GMP 1 - C7 AND C10)

AV31000096 FAA/ADOT

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

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

SHEET OVERVIEW TITLE

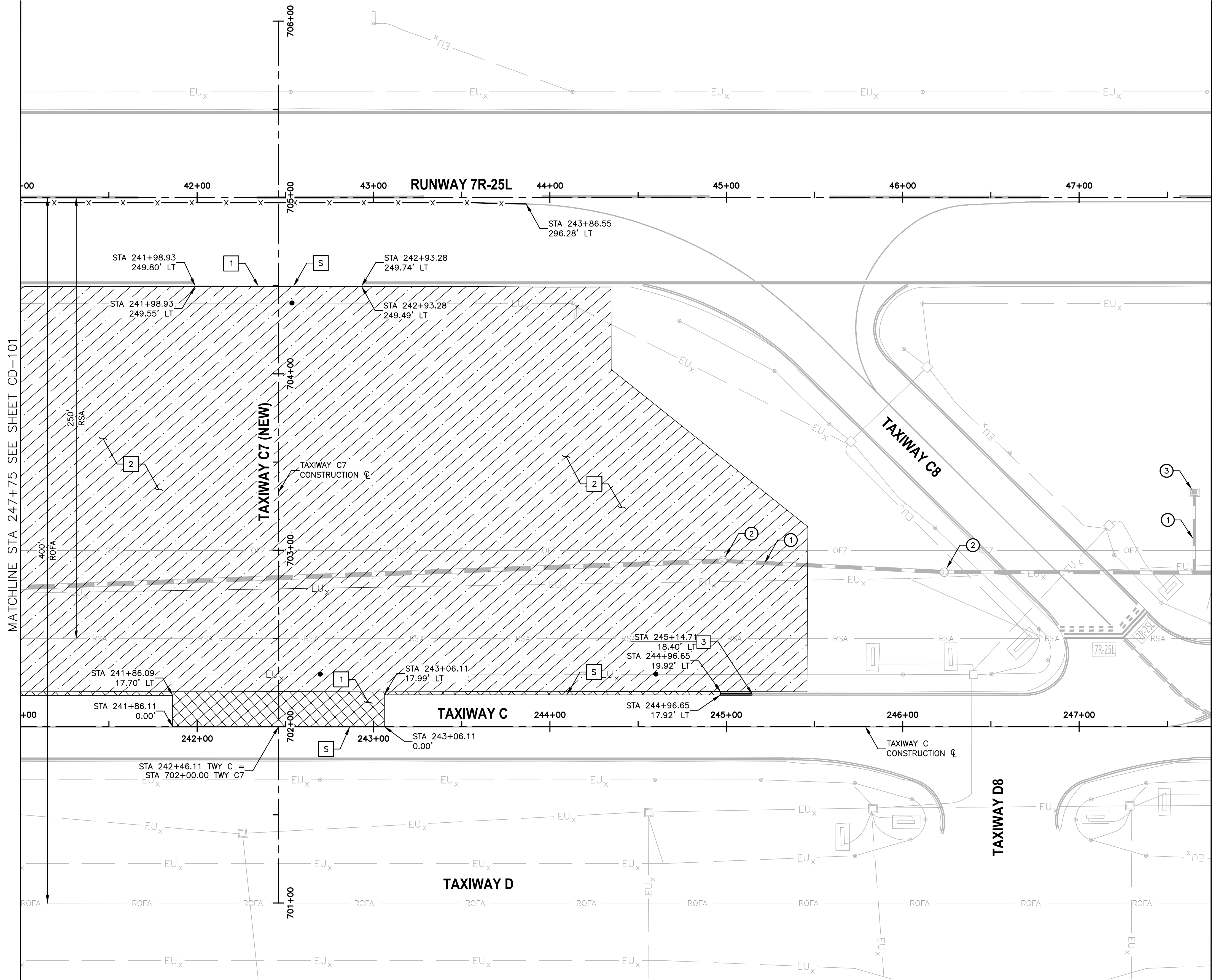
CIVIL DEMOLITION PLAN

SHEET REFERENCE NUMBER: CD-101

SHEET 09 OF 59

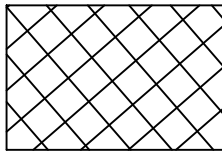


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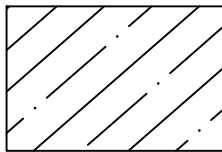


## REMOVAL NOTES

- 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
- S SAWCUT EXISTING AC PAVEMENT FULL DEPTH



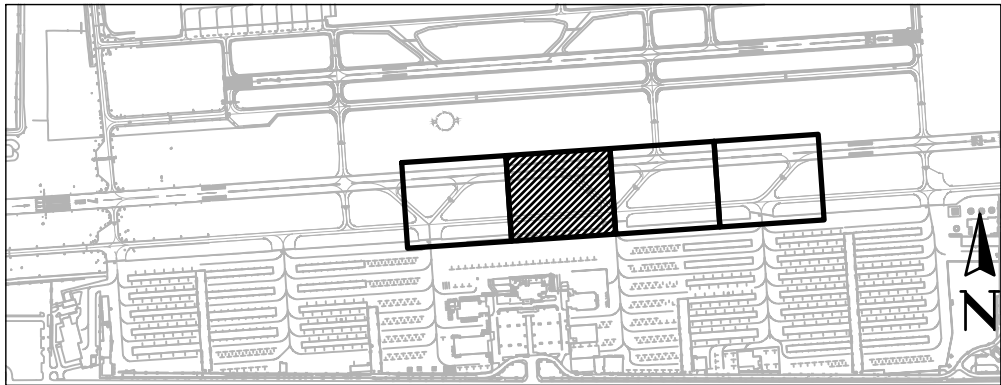
FULL DEPTH ASPHALT PAVEMENT REMOVAL



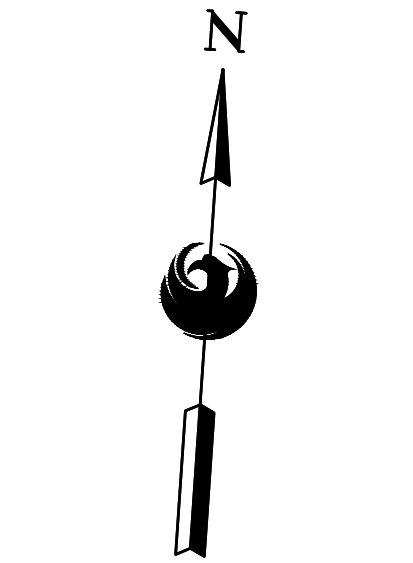
CRUSHED AGGREGATE SLOPE PROTECTION

## 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'



TRACE  
CONSULTING  
2071 E. Jefferson St., Suite 1 Phoenix, AZ 85025

PRIME CONSULTANT

SUB CONSULTANT

90%

SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

\*PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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.\*

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

AV31000096 FAA/ADOT

Designed by: CS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

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

SHEET OVERVIEW TITLE

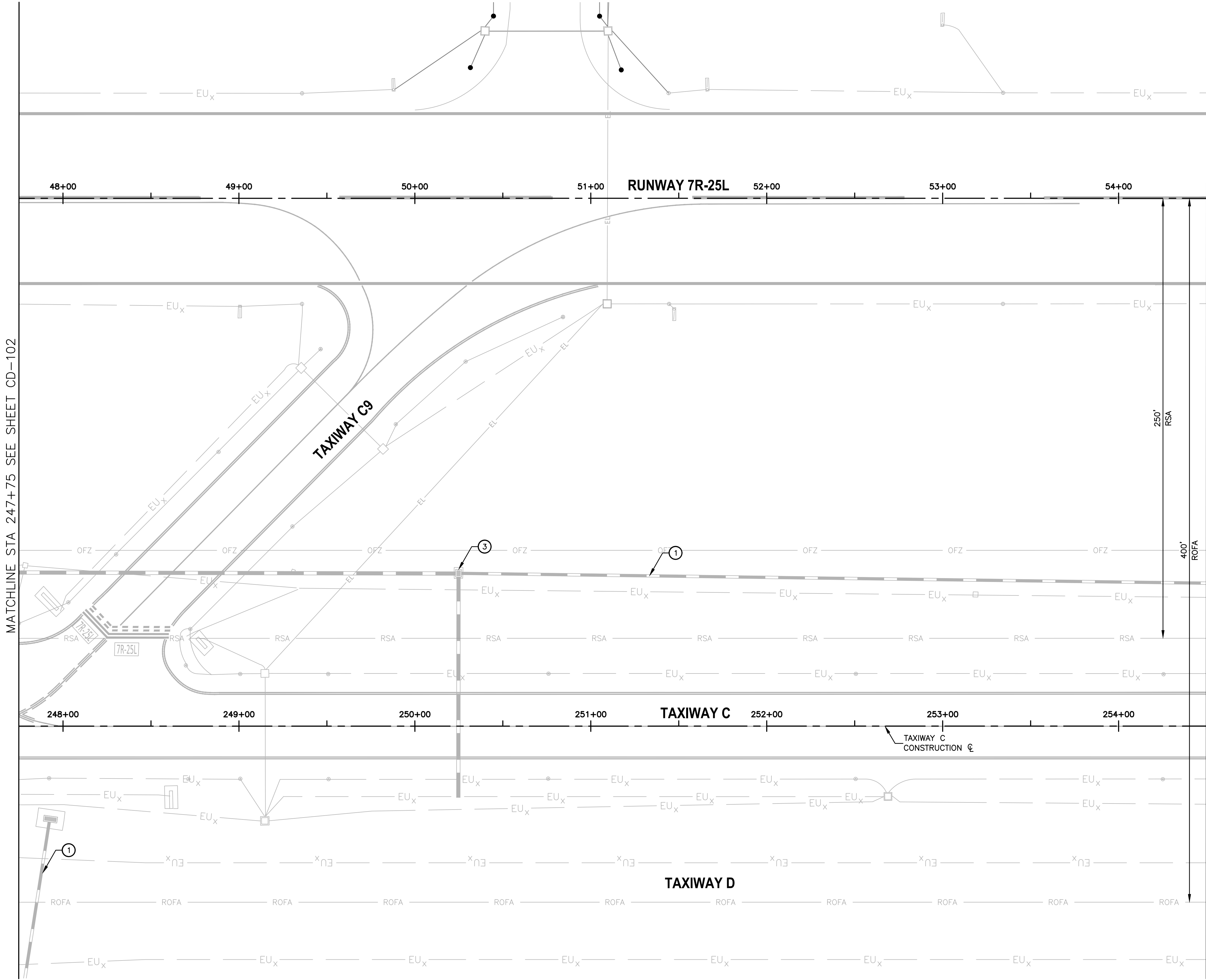
CIVIL DEMOLITION PLAN

SHEET  
REFERENCE  
NUMBER:  
CD-102

SHEET 10 OF 59



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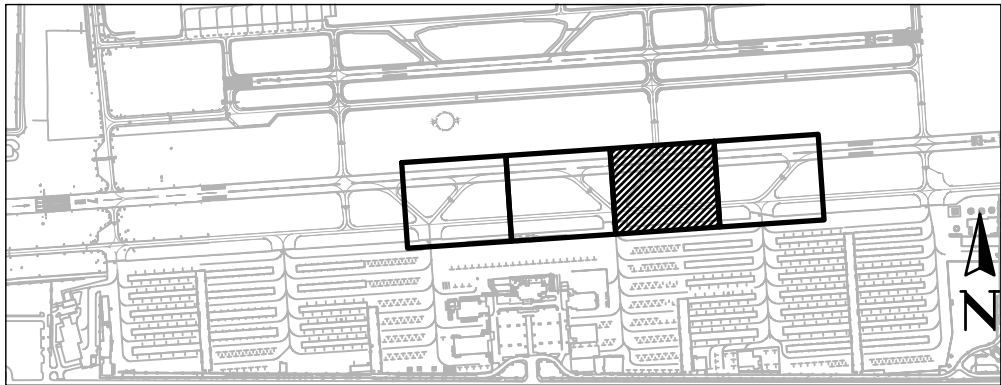


## REMOVAL NOTES

NO WORK THIS SHEET

## REFERENCE NOTES

- EXISTING STORM DRAIN PIPE, PROTECT IN PLACE
  - EXISTING STORM DRAIN MANHOLE, PROTECT IN PLACE
  - EXISTING CATCH BASIN, PROTECT IN PLACE
- SEE ELECTRICAL DEMOLITION PLAN FOR ELECTRICAL ITEMS.
  - SEE GRADING AND DRAINAGE PLAN FOR GRADING LIMIT STATIONING.
  - STATIONING IS BASED ON NEW TWY C CONSTRUCTION & UNLESS OTHERWISE NOTED.



KEY MAP



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



PRIME CONSULTANT  
**TRACE**  
CONSULTING  
1801 E. Jefferson St., Suite 31 Phoenix, AZ 85015

SUB CONSULTANT

90%  
SUBMITTAL  
PRELIMINARY  
NOT FOR  
CONSTRUCTION

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| NO | REVISIONS / SUBMISSIONS | DATE |
|----|-------------------------|------|
|    |                         |      |
|    |                         |      |
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|    |                         |      |
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|    |                         |      |
|    |                         |      |

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

AV31000096 FAA/ADOT

|                     |
|---------------------|
| Designed by: CS     |
| Drawn by: TR        |
| Checked by: CJ      |
| Date: 01/2024       |
| Dwg scale: AS SHOWN |

ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

SHEET OVERVIEW TITLE

CIVIL DEMOLITION PLAN

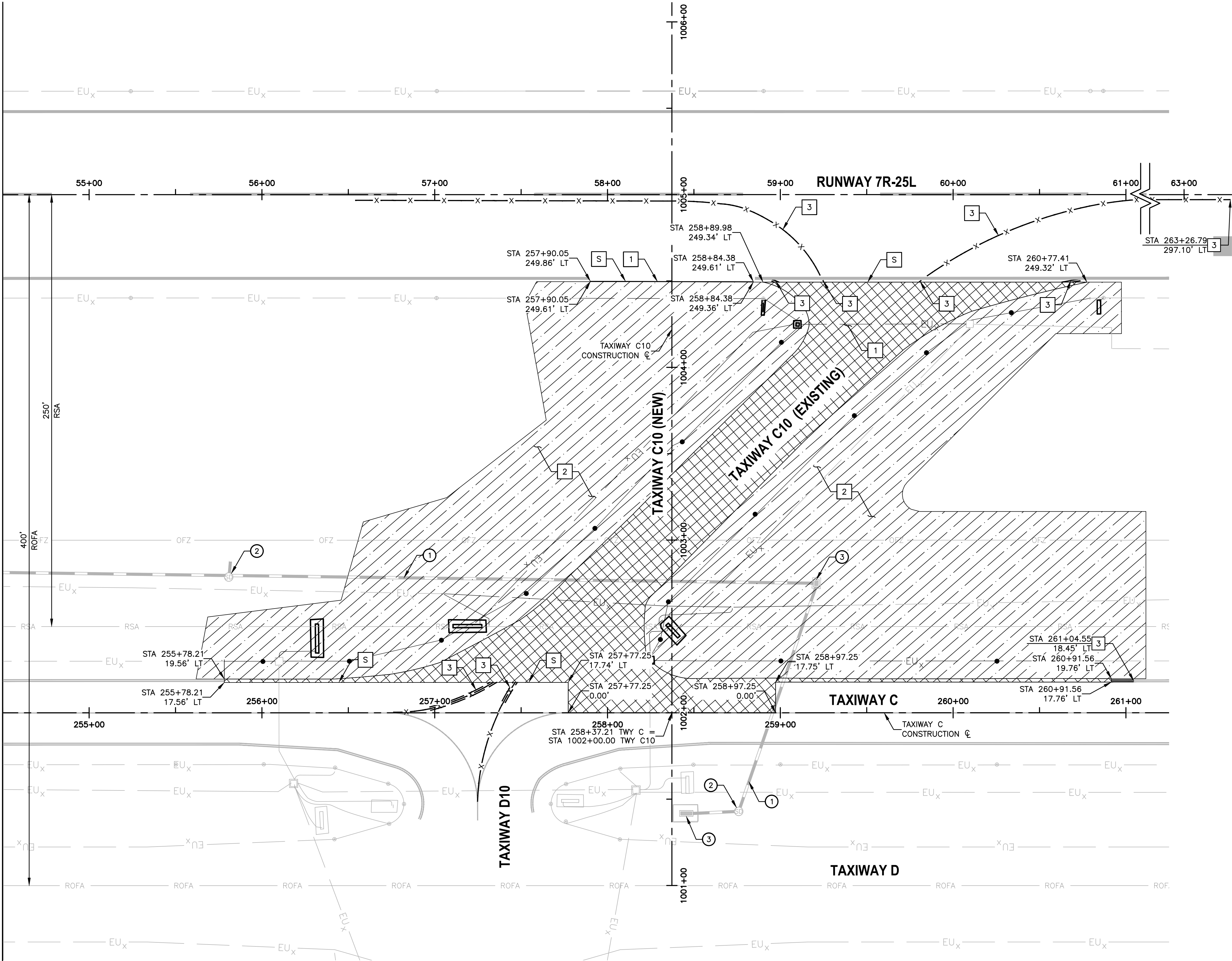
SHEET  
REFERENCE  
NUMBER:  
**CD-103**

SHEET 11 OF 59



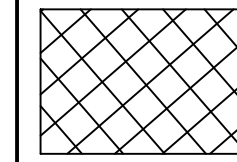
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MATCHLINE STA 254+50 SEE SHEET CD-103

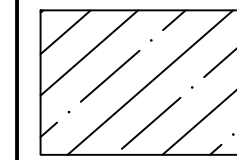


## REMOVAL NOTES

- 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



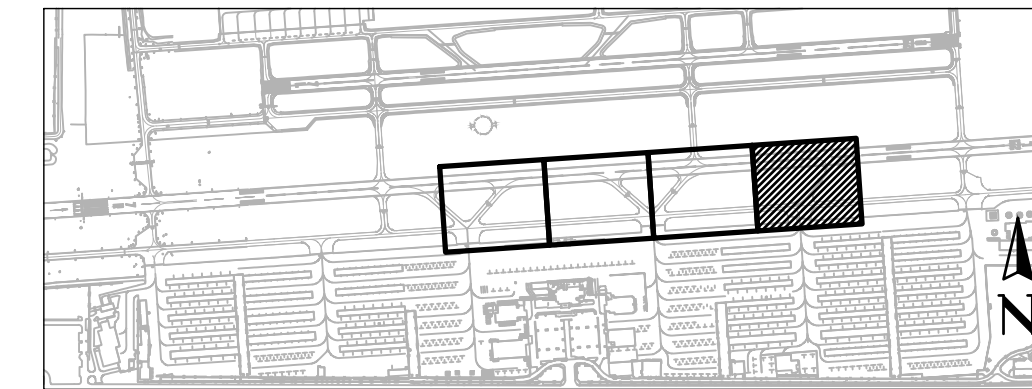
FULL DEPTH ASPHALT PAVEMENT REMOVAL



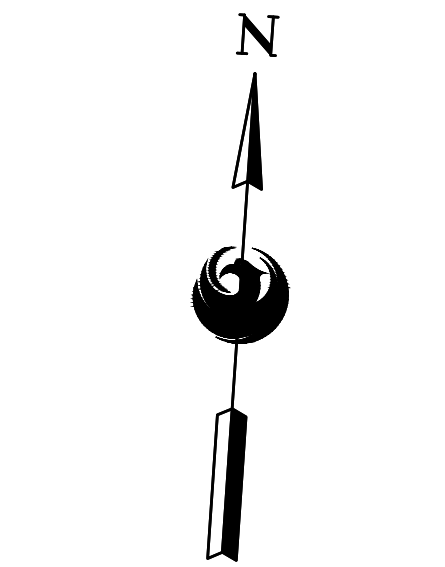
CRUSHED AGGREGATE SLOPE PROTECTION

## 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'



TRACE  
CONSULTING  
2071 E. Jefferson St., Suite 101 Phoenix, AZ 85025

PRIME CONSULTANT

SUB CONSULTANT

90%

SUBMITTAL

PRELIMINARY

CONSTRUCTION

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PHX DVT BYR  
CITY OF PHOENIX AVIATION DEPARTMENT

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

AV31000096 FAA/ADOT

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

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

SHEET OVERVIEW TITLE

CIVIL DEMOLITION PLAN

SHEET  
REFERENCE  
NUMBER:

CD-104

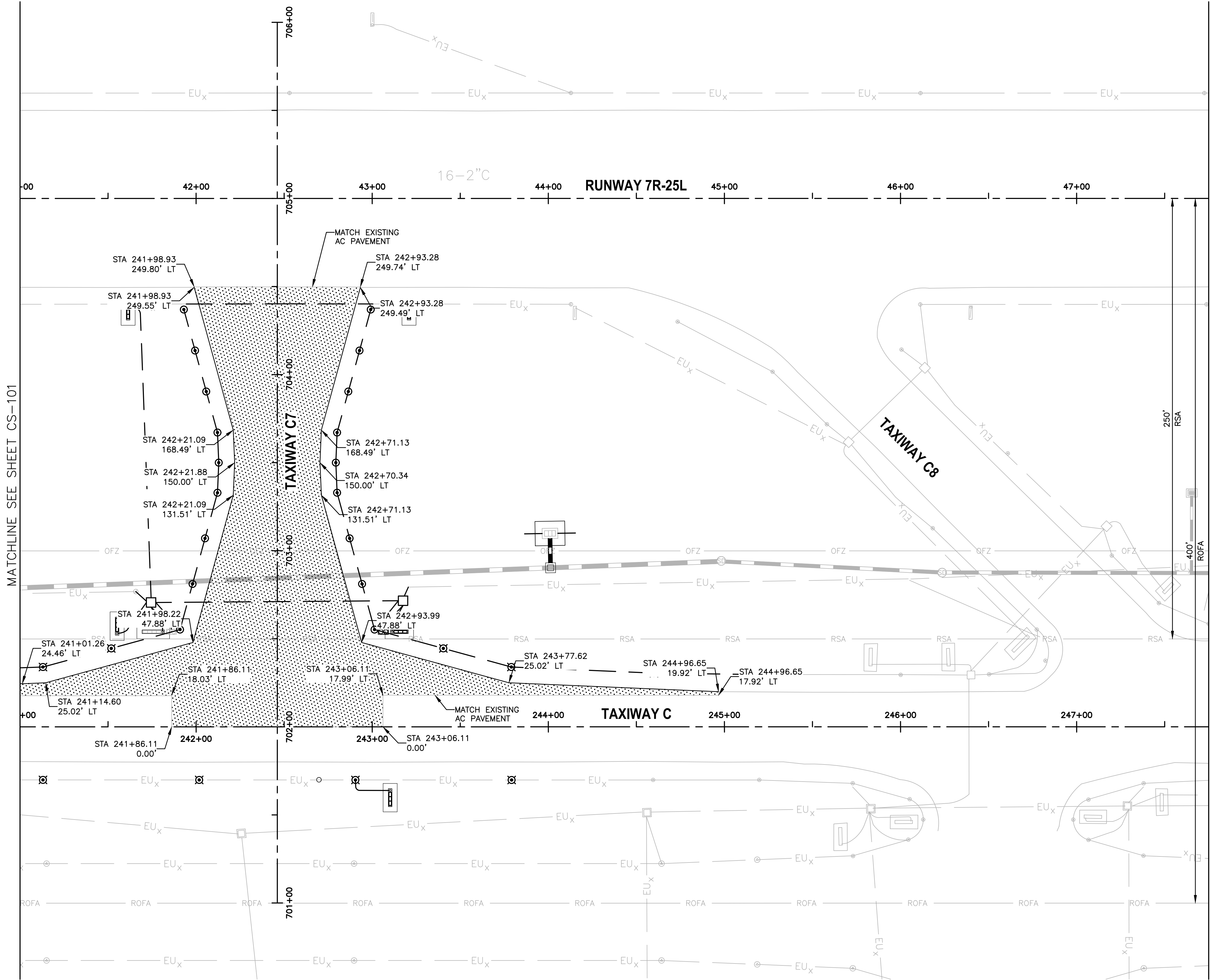
SHEET 12 OF 59







N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Drawg\Drawg\AV310000096-CS-102-GMP1.dwg - Feb\_01\_2024\_4:41pm



LEGEND

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

90%

SUBMITTAL PRELIMINARY CONSTRUCTION

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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.

DATE

NO

REVISIONS / SUBMISSIONS

PHX DVT BYR

CITY OF PHOENIX AVIATION DEPARTMENT

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

AV310000096 FAA/ADOT

Designed by: CS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

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

KEY MAP

0 30' 60'

SCALE: 1" = 30'

ARIZONA811

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

PRIME CONSULTANT

TRACE CONSULTING

1301 E. Jefferson St., Suite 101 Phoenix, AZ 85005

SUB CONSULTANT

90%

SUBMITTAL PRELIMINARY CONSTRUCTION

SHEET OVERVIEW TITLE

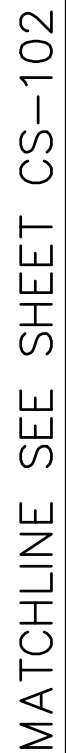
GEOMETRIC LAYOUT PLAN

SHEET REFERENCE NUMBER:

CS-102

SHEET 14 OF 59





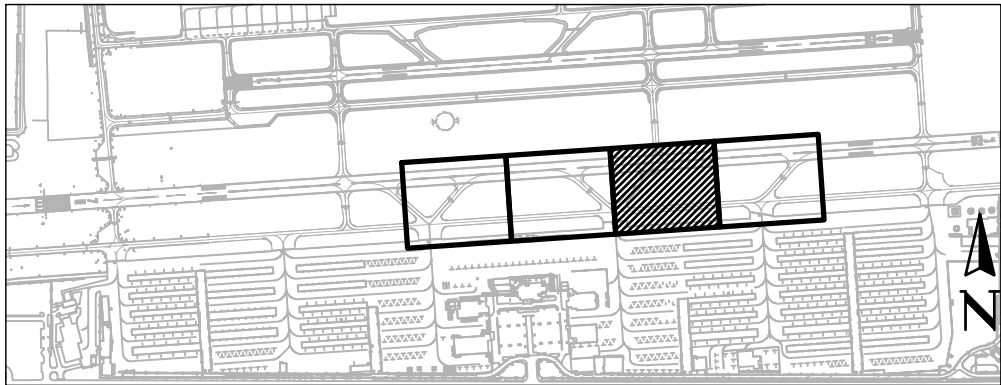
MATCHLINE SEE SHEET CS-104

## LEGEND

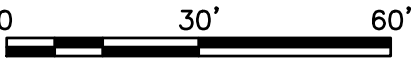
NO WORK THIS SHEET

## REFERENCE NOTES

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



## KEY MAP



SCALE: 1"=30'

| SHEET | OVERVIEW | TITLE |
|-------|----------|-------|
| 1     | 1        | 1     |
| 2     | 2        | 2     |
| 3     | 3        | 3     |
| 4     | 4        | 4     |
| 5     | 5        | 5     |
| 6     | 6        | 6     |
| 7     | 7        | 7     |
| 8     | 8        | 8     |
| 9     | 9        | 9     |
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| 11    | 11       | 11    |
| 12    | 12       | 12    |
| 13    | 13       | 13    |
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| 15    | 15       | 15    |
| 16    | 16       | 16    |
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| 89    | 89       | 89    |
| 90    | 90       | 90    |
| 91    | 91       | 91    |
| 92    | 92       | 92    |
| 93    | 93       | 93    |
| 94    | 94       | 94    |
| 95    | 95       | 95    |
| 96    | 96       | 96    |
| 97    | 97       | 97    |
| 98    | 98       | 98    |
| 99    | 99       | 99    |
| 100   | 100      | 100   |

# GEOMETRIC LAYOUT PLAN

SHEET  
REFERENCE  
NUMBER:

# CS-103

SHEET 15 OF 59

PRIME CONSULTANT

SUB CONSULTANT

90%

SUBMITTAL

NOT FOR  
CONSTRUCTION

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"

**PHX DVT BYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
DVT TAYIWAY C

# CONNECTORS C4-C10 MP 1 - C7 AND C10)

AV31000096 FAA/ADOT

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 01/

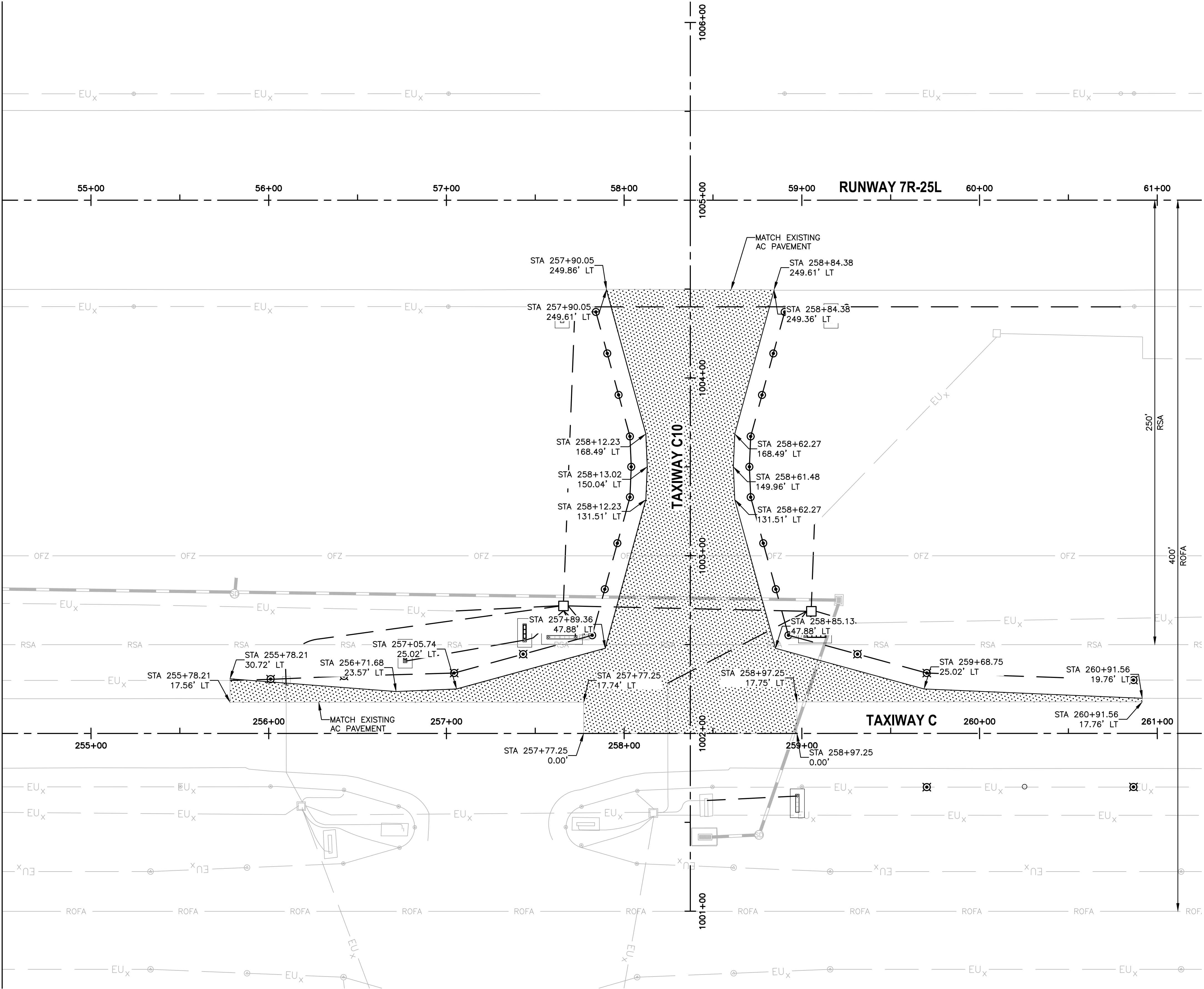
Dwg scale: AS

ADOT GRANT NUMBER(S):  
F2S4V 01C & F3S3K 01C

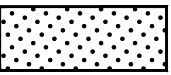


N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Draw\Draw\GMP1\ AV31000096-CS-104-GMP1.dwg - Feb 01/2024 4:41pm

MATCHLINE SEE SHEET CS-103



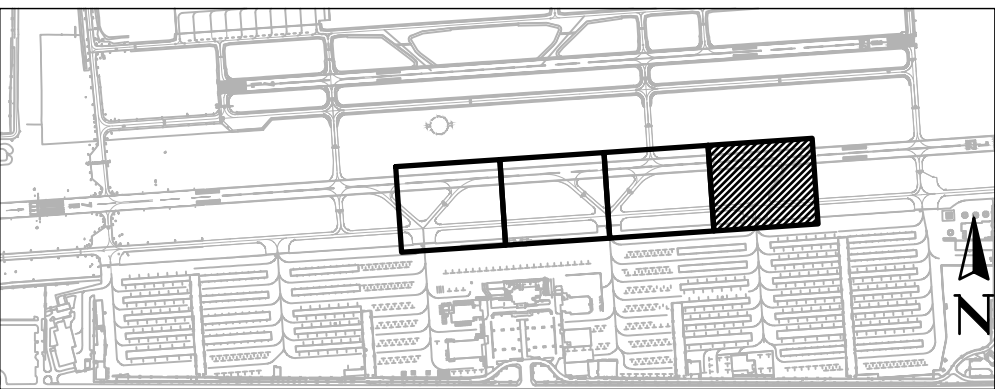
## LEGEND



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

## REFERENCE NOTES

- STATIONING IS BASED ON TWY C CONSTRUCTION C UNLESS OTHERWISE NOTED.



KEY MAP



0 30' 60'

SCALE: 1" = 30'

PRIME CONSULTANT

SUB CONSULTANT

90%

SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

| REVISIONS / SUBMISSIONS |  | DATE |
|-------------------------|--|------|
| NO                      |  |      |

\*PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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.\*

**PHX DVT BYR**

CITY OF PHOENIX AVIATION DEPARTMENT

DVT TAXIWAY C

CONNECTORS C4-C10

(GMP 1 - C7 AND C10)

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Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

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

SHEET OVERVIEW TITLE

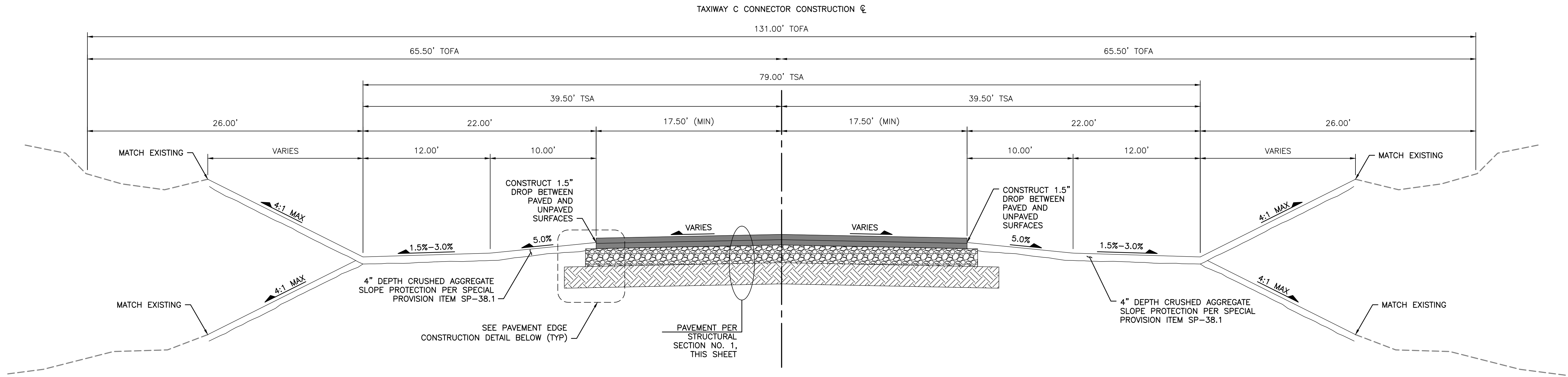
GEOMETRIC LAYOUT PLAN

SHEET  
REFERENCE  
NUMBER:

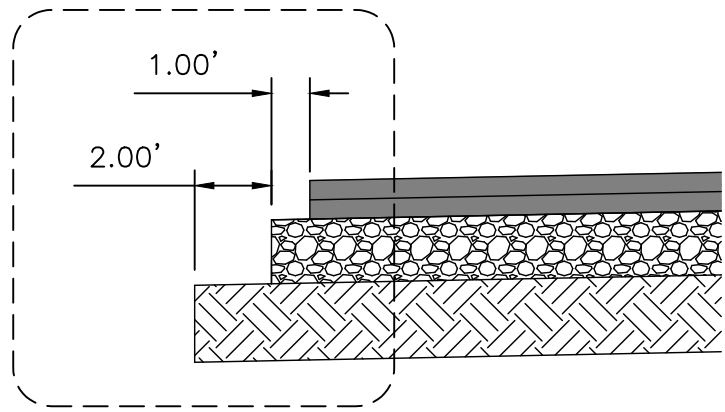
CS-104

SHEET 16 OF 59

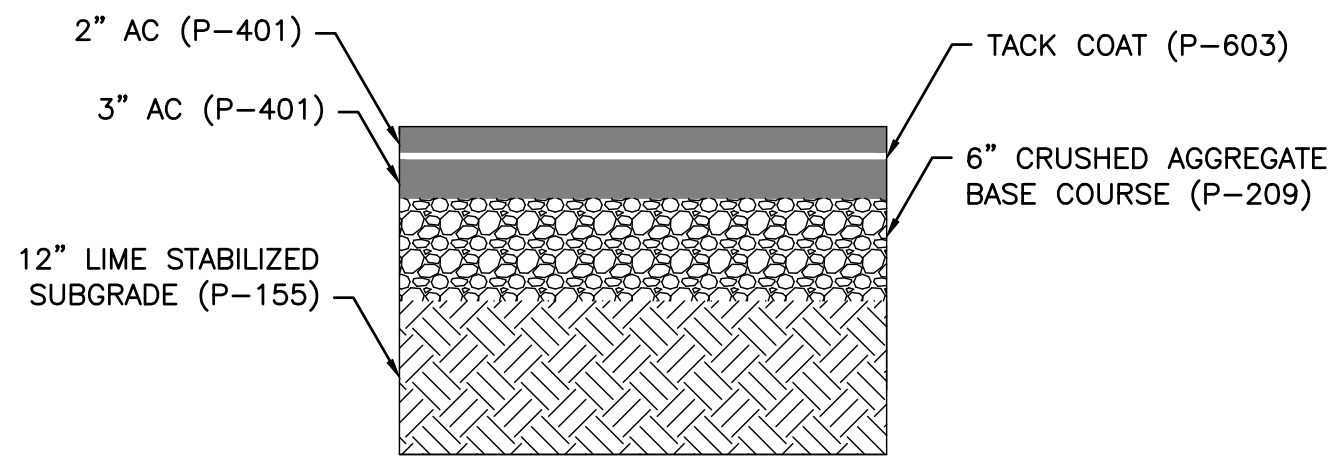




**TYPICAL SECTION NO.**  
TAXIWAYS C7 & C10



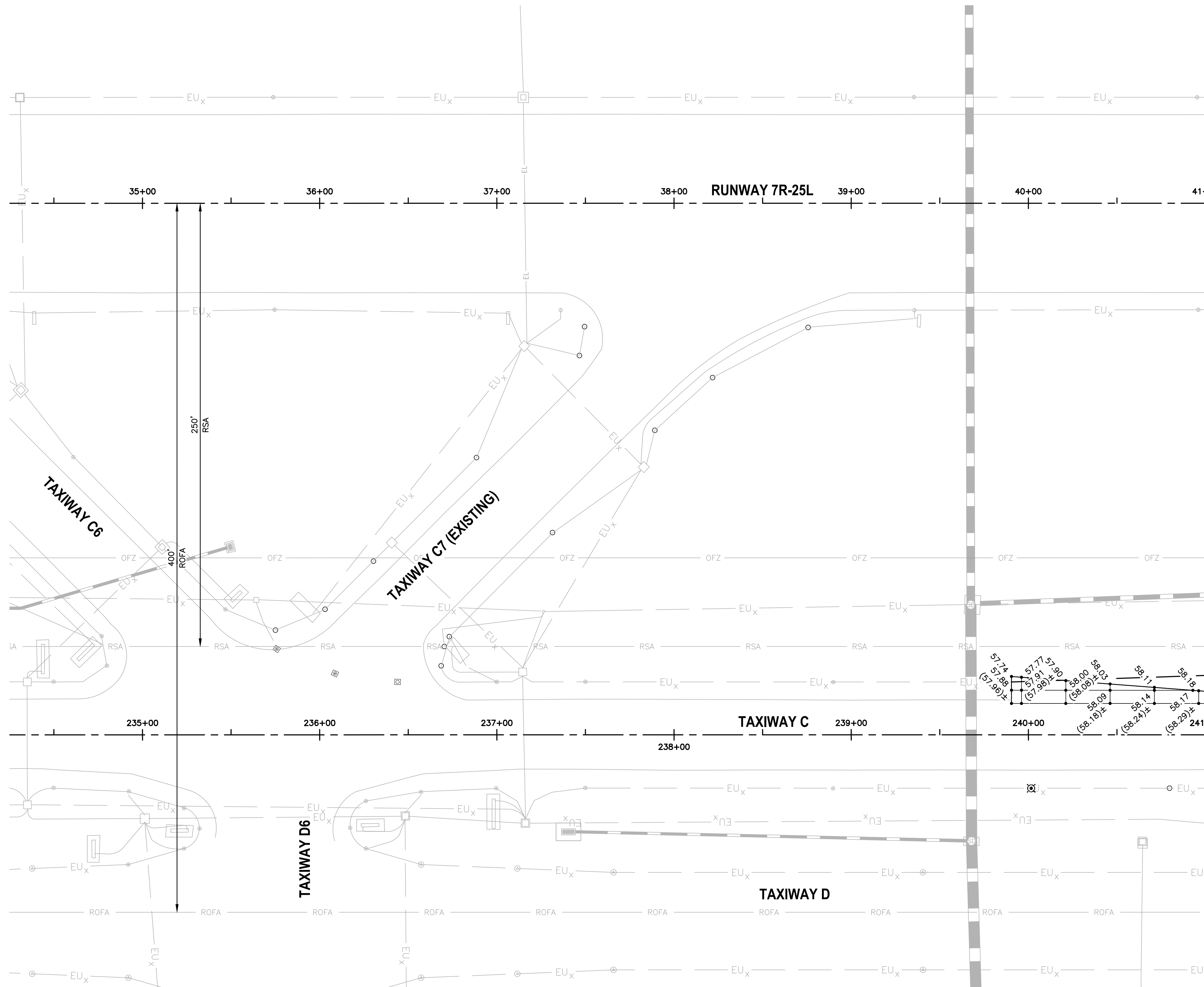
### PAVEMENT EDGE CONSTRUCTION DETAIL



## STRUCTURAL SECTION NO.1

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| SHEET OVERVIEW TITLE | Designed by: GS<br>Drawn by: TR<br>Checked by: CJ<br>Date: 01/2024<br>Dwg scale: NTS | 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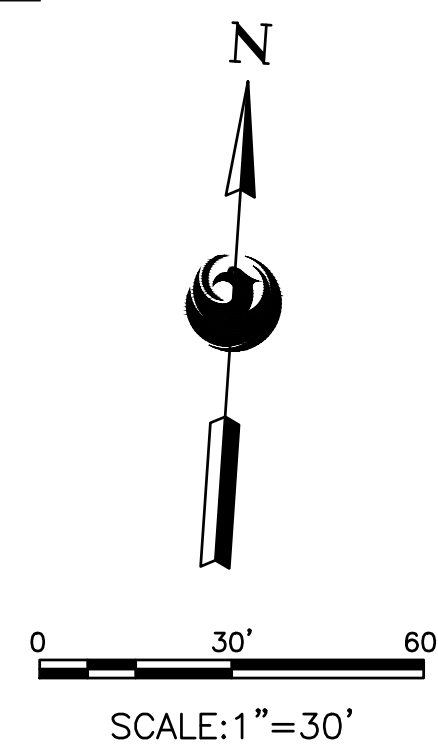
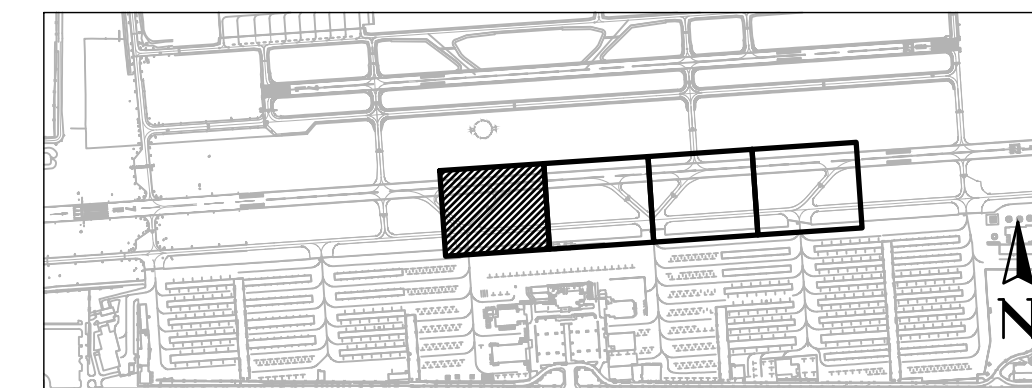


## LEGEND

|                               |                          |
|-------------------------------|--------------------------|
| 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.



PRIME CONSULTANT

**TRACÉ**  
CONSULTING

SUB CONSULTANT

90% SUBMITTAL

"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"

**AV31000096 FAA/ADOT**

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

CITY OF PHOENIX AVIATION DEPARTMENT

# PHARMEX

Designed by: GS

|              |
|--------------|
| Drawn by: TR |
|--------------|

|                |
|----------------|
| Checked by: CJ |
|----------------|

Date: 01/2024

Dwg scale: AS SHOWN

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

| SHEET | OVERVIEW | TITLE |
|-------|----------|-------|
|-------|----------|-------|

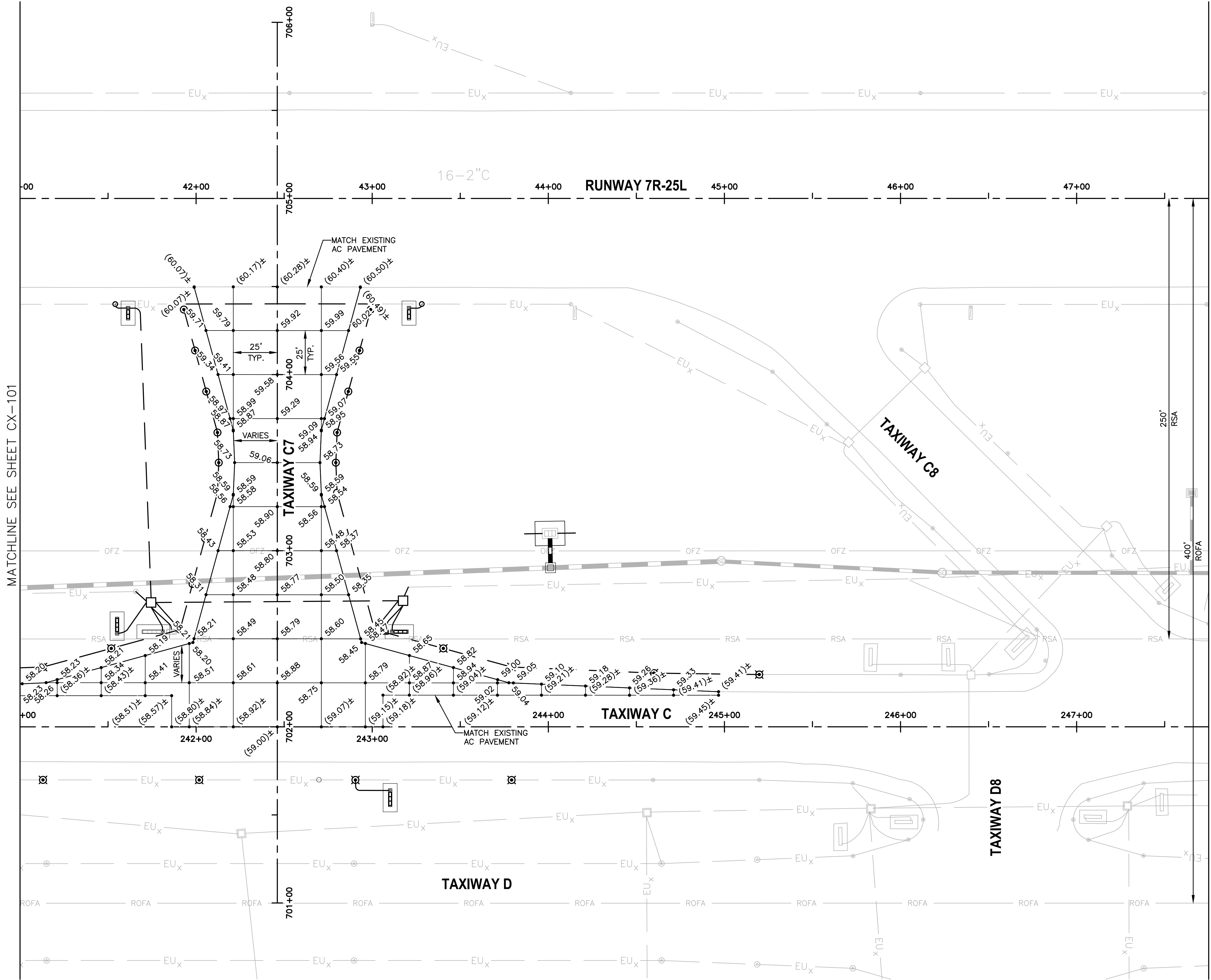
## PAVEMENT STAKING PLAN

SHEET  
REFERENCE  
NUMBER:  
**CX-101**

SHEET 18 OF 59



N:\2022\221004 - DVT Taxiway C Connectors C4-C10.Dwg, GMP1, AV31000096-CX-102-GMP1.dwg - Feb\_01\_2024\_4:42pm

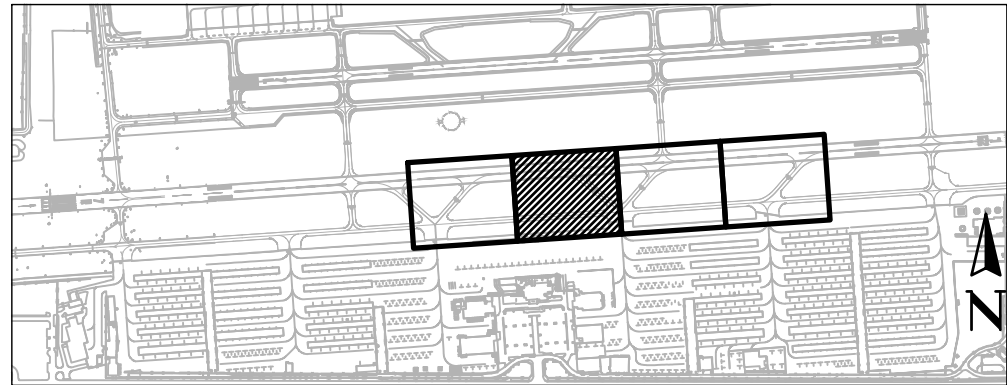


LEGEND

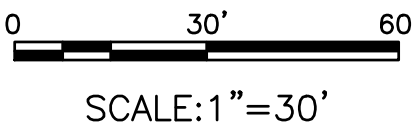
1. ADD 1400 TO ALL ELEVATIONS  
XX.XX PROPOSED ELEVATION  
(XX.XX)± MATCH EXISTING ELEVATION

REFERENCE NOTES

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



KEY MAP



PRIME CONSULTANT

**TRACE**  
CONSULTING  
207 E. Jefferson St., Suite 1 Phoenix, AZ 85005

SUB CONSULTANT

90%

SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

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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|  |    |                         |      |

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

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

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

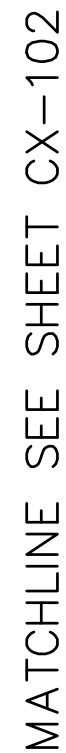
SHEET OVERVIEW TITLE

**PAVEMENT STAKING PLAN**

SHEET  
REFERENCE  
NUMBER:  
**CX-102**

SHEET 19 OF 59





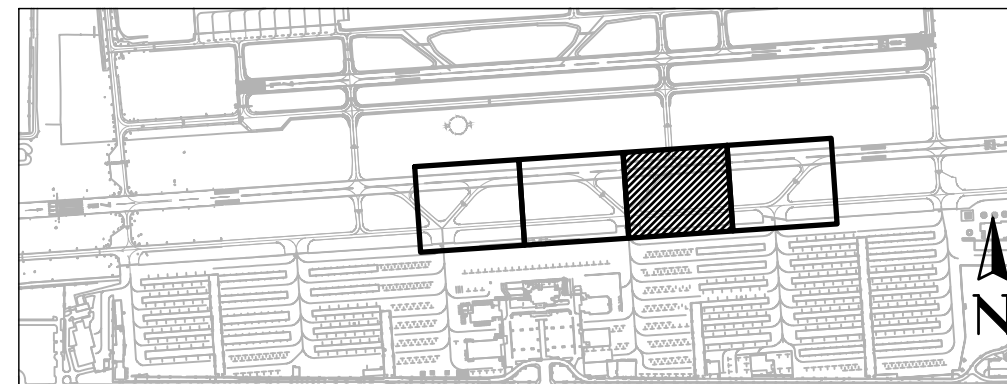
MATCHLINE SEE SHEET CX-104

## LEGEND

NO WORK THIS SHEET

## REFERENCE NOTES

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



## KEY MAP



0 30' 60'

SCALE: 1"=30'

SHEET OVERVIEW TITLE

## PAVEMENT STAKING PLAN

SHEET  
REFERENCE  
NUMBER:  
**CX-103**

SHEET 20 OF 59

"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"

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

**AV31000096 FAA/ADOT**

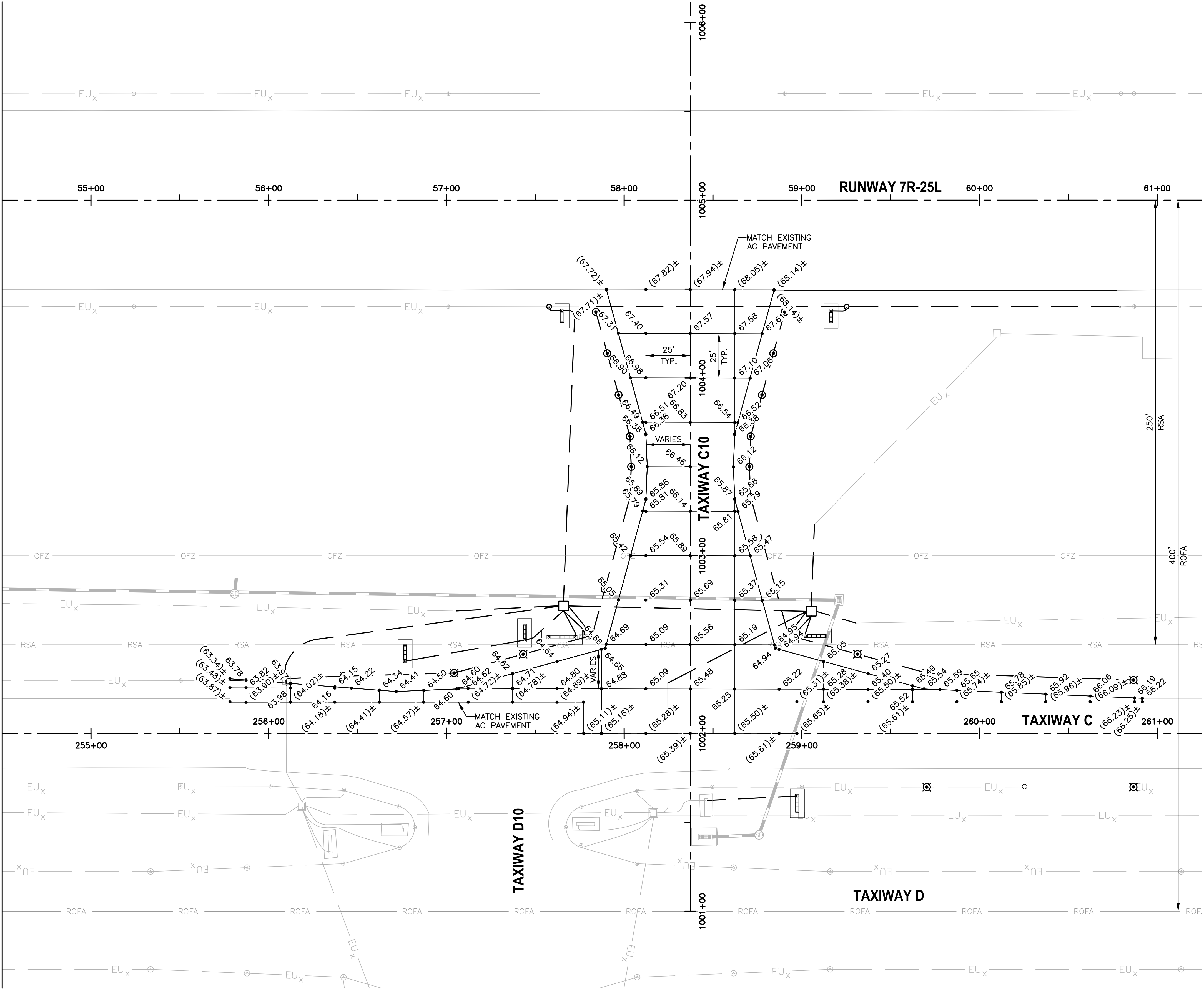
ADOT GRANT NUMBER(S):  
E2S4V 01C & E3S3K 01C

|                     |
|---------------------|
| Designed by: GS     |
| Drawn by: TR        |
| Checked by: CJ      |
| Date: 01/2024       |
| Dwg scale: AS SHOWN |



N:\2022\221004 - DVT Taxiway C Connectors C4-C10.Dwg\GMP1\ AV31000096-CX-104-GMP1.dwg - Feb\_01\_2024\_4:42pm

MATCHLINE SEE SHEET CX-103

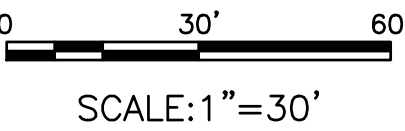
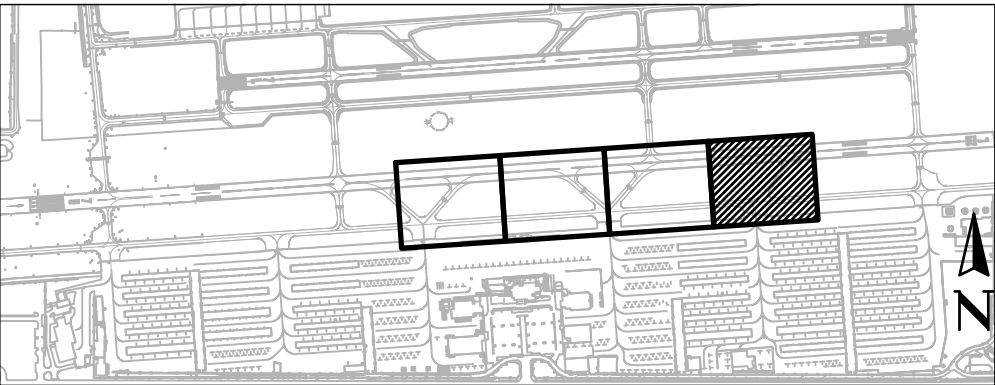


LEGEND

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 C UNLESS OTHERWISE NOTED.



|                     |
|---------------------|
| Designed by: CS     |
| Drawn by: TR        |
| Checked by: CJ      |
| Date: 01/2024       |
| Dwg scale: AS SHOWN |

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

PAVEMENT STAKING PLAN

SHEET  
REFERENCE  
NUMBER:  
**CX-104**

SHEET 21 OF 59

SHEET OVERVIEW TITLE

\*PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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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CITY OF PHOENIX AVIATION DEPARTMENT  
**DVT TAXIWAY C  
CONNECTORS C4-C10  
(GMP 1 - C7 AND C10)**  
AV310000096 FAA/ADOT

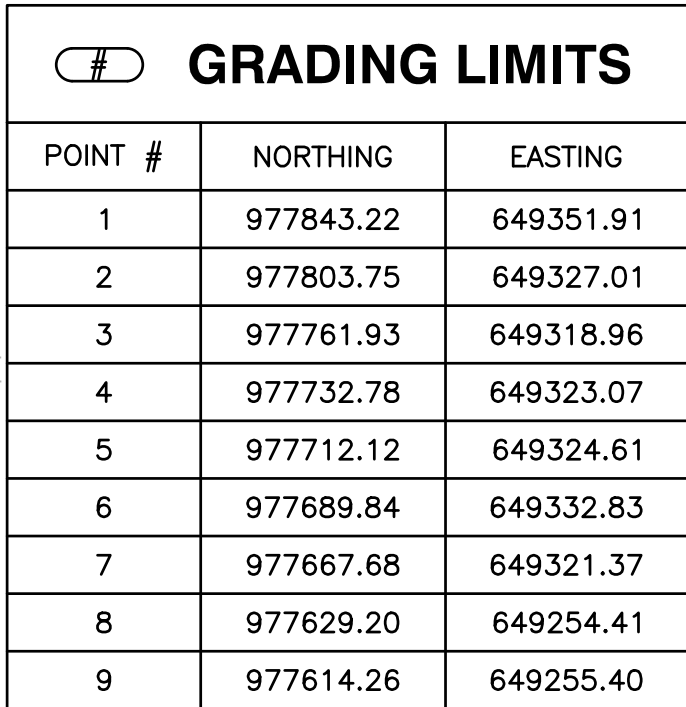
90%  
SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

PRIME CONSULTANT

1201 E. Jefferson St., Suite 11 Phoenix, AZ 85005

SUB CONSULTANT





- 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

**PRIME CONSULTANT**

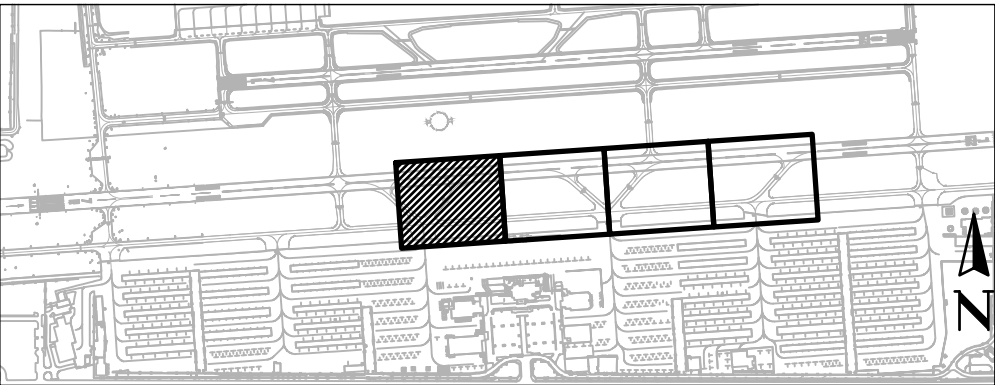
**TRACE**  
CONSULTING

1201 E. Jefferson St. | Suite 31 | Phoenix, AZ 85004

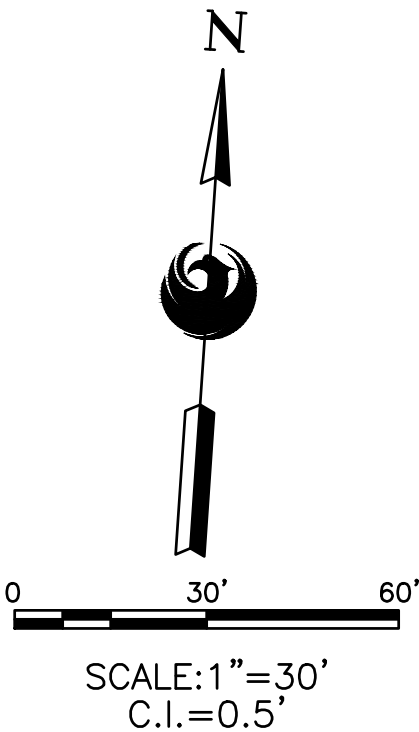
90%  
SUBMITTAL  
PRELIMINARY  
NOT FOR  
CONSTRUCTION

[illegible]

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



Contact Arizona 811 at least two full working days before you begin excavation

**ARIZONA811**

Call 811 or click [Arizona811.com](http://Arizona811.com)

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

**AV/31000096 FAA/ADOT**

|                     |
|---------------------|
| Designed by: GS     |
| Drawn by: TR        |
| Checked by: CJ      |
| Date: 01/2024       |
| Dwg scale: AS SHOWN |

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

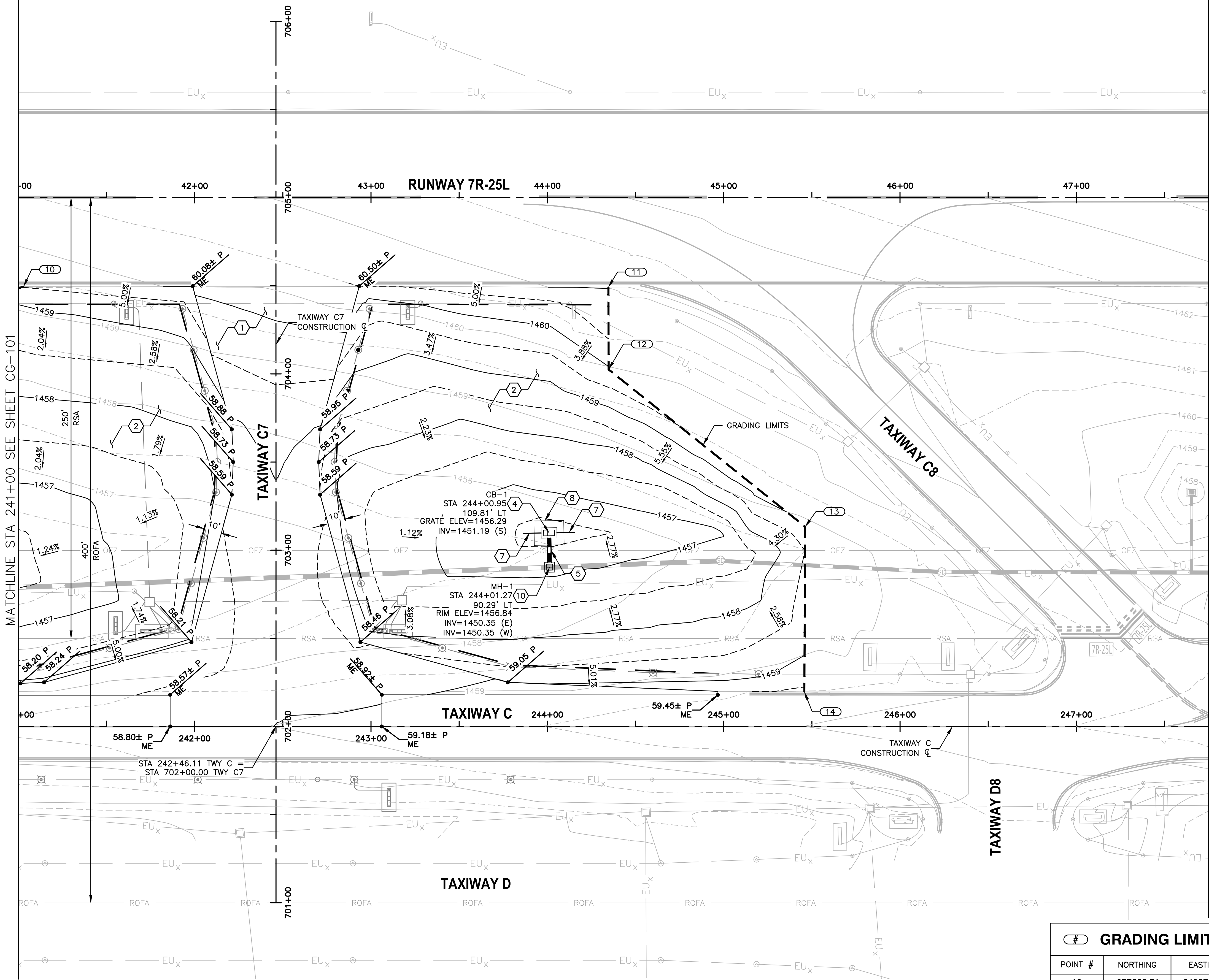
## GRADING & DRAINAGE PLAN

SHEET  
REFERENCE  
NUMBER:  
**CG-101**

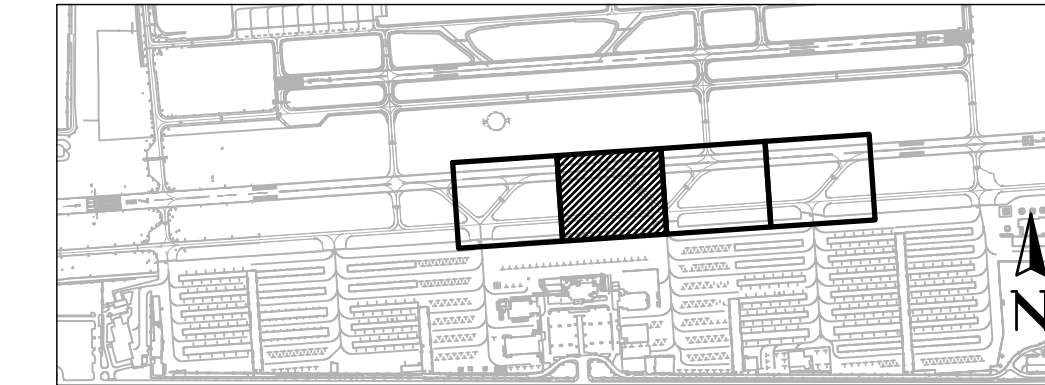
SHEET 22 OF 59



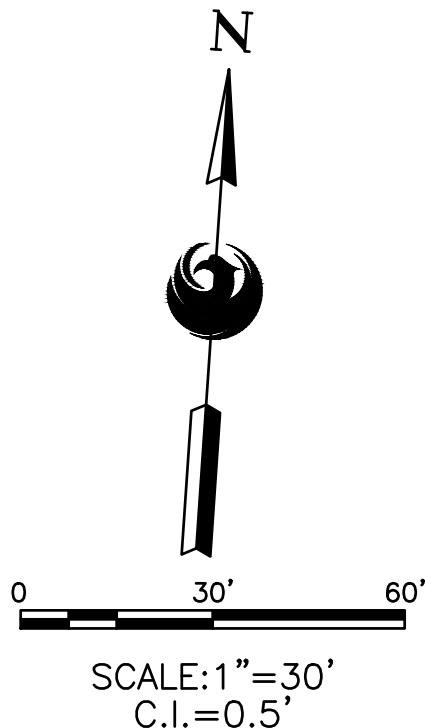
N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Draw\Draw\GMP1\ AV31000096-CG-102-GMP1.dwg - Feb 01 2024 4:43pm



| # GRADING LIMITS |           |           |
|------------------|-----------|-----------|
| POINT #          | NORTHING  | EASTING   |
| 10               | 977852.71 | 649374.62 |
| 11               | 977874.98 | 649705.53 |
| 12               | 977828.33 | 649708.81 |
| 13               | 977746.93 | 649826.09 |
| 14               | 977653.48 | 649831.97 |



KEY MAP



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
- 4 CONSTRUCT NEW AIRFIELD CONCRETE CATCH BASIN (TRIPLE GRATE) SEE DETAIL 1 SHEET CU-502
- 5 INSTALL NEW 24" RGRCP (CLASS V) PER D-701
- 7 INSTALL NEW 4" HDPE PERFORATED PIPE
- 8 CONSTRUCT NEW CONCRETE APRON
- 10 CONSTRUCT NEW STORM DRAIN MANHOLE

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  $\phi$  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

PRIME CONSULTANT  
SUB CONSULTANT

90%  
SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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.

DATE  
SUBMISSIONS  
NO

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

Designed by: GS  
Drawn by: TR  
Checked by: CJ  
Date: 01/2024  
Dwg scale: AS SHOWN  
ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

SHEET OVERVIEW TITLE  
**GRADING & DRAINAGE PLAN**  
SHEET  
REFERENCE  
NUMBER:  
**CG-102**  
SHEET 23 OF 59

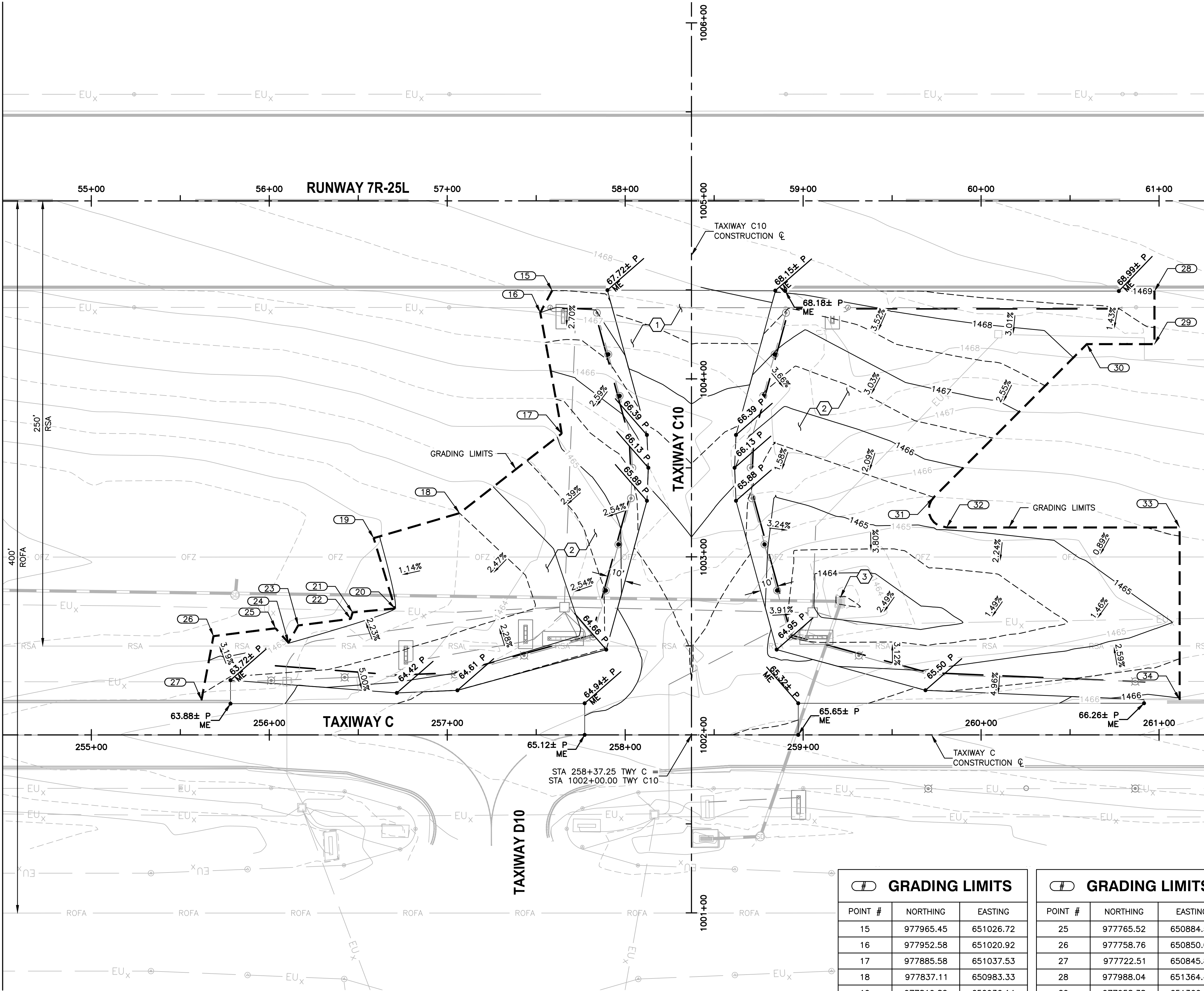






N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Draw.Dwg\GMP1\ AV31000096-CG-104-GMP1.dwg - Feb 01,2024 4:44pm

MATCHLINE STA 254+50 SEE SHEET CG-103



| #       | GRADING LIMITS |           |  |
|---------|----------------|-----------|--|
| POINT # | NORTHING       | EASTING   |  |
| 15      | 977965.45      | 651026.72 |  |
| 16      | 977952.58      | 651020.92 |  |
| 17      | 977885.58      | 651037.53 |  |
| 18      | 977837.11      | 650983.33 |  |
| 19      | 977819.82      | 650936.14 |  |
| 20      | 977781.22      | 650950.83 |  |
| 21      | 977773.38      | 650927.16 |  |
| 22      | 977773.72      | 650926.39 |  |
| 23      | 977767.99      | 650897.15 |  |
| 24      | 977757.97      | 650892.34 |  |

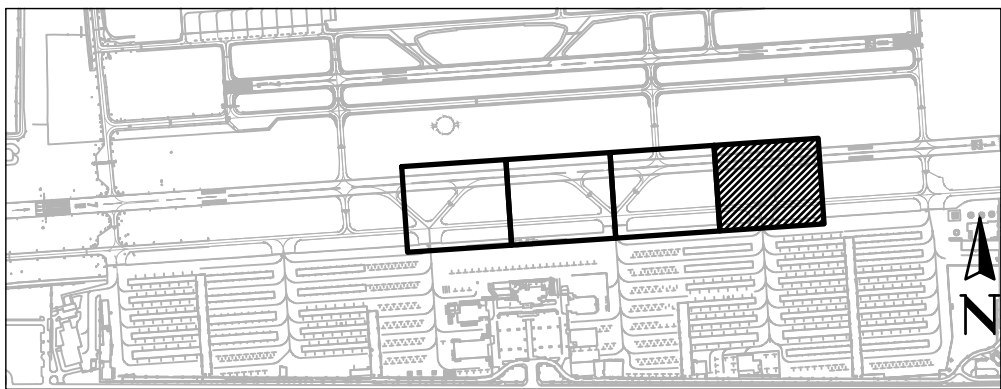
| #       | GRADING LIMITS |           |  |
|---------|----------------|-----------|--|
| POINT # | NORTHING       | EASTING   |  |
| 25      | 977765.52      | 650884.56 |  |
| 26      | 977758.76      | 650850.07 |  |
| 27      | 977722.51      | 650845.80 |  |
| 28      | 977988.04      | 651364.44 |  |
| 29      | 977958.38      | 651366.46 |  |
| 30      | 977955.79      | 651328.57 |  |
| 31      | 977864.24      | 651248.70 |  |
| 32      | 977847.69      | 651256.92 |  |
| 33      | 977856.59      | 651387.58 |  |
| 34      | 977760.03      | 651394.17 |  |

## CONSTRUCTION NOTES

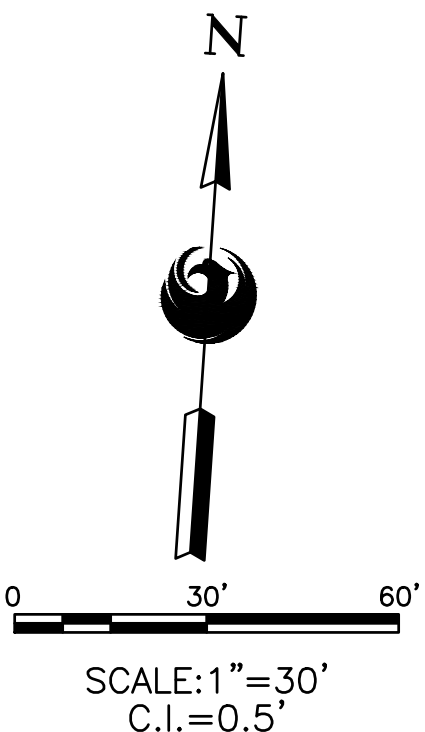
- CONSTRUCT NEW AC TAXIWAY PAVEMENT, SEE TYPICAL SECTION SHEET CS-301
- HAUL AND PLACE 4" DEPTH AGGREGATE SLOPE PROTECTION PER SPECIAL PROVISION ITEM 38
- ADJUST EXISTING STRUCTURE TO GRADE

## REFERENCE NOTES

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



KEY MAP



Designed by: CS  
Drawn by: TR  
Checked by: CJ  
Date: 01/2024  
Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

## GRADING & DRAINAGE PLAN

SHEET  
REFERENCE  
NUMBER:  
**CG-104**

SHEET 25 OF 59

SHEET OVERVIEW TITLE

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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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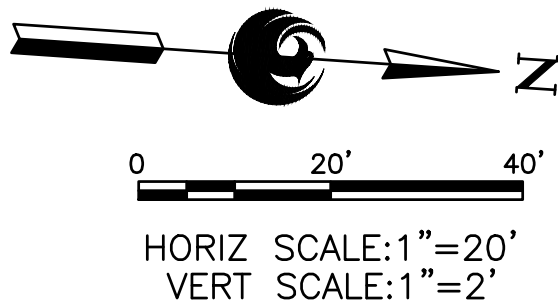
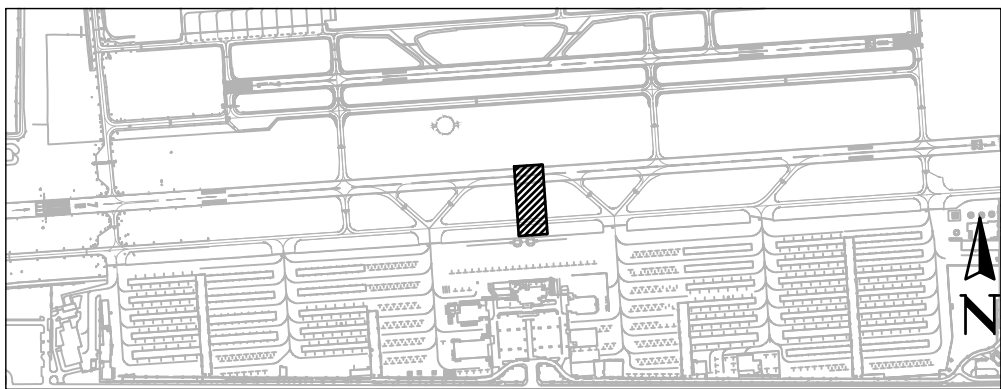
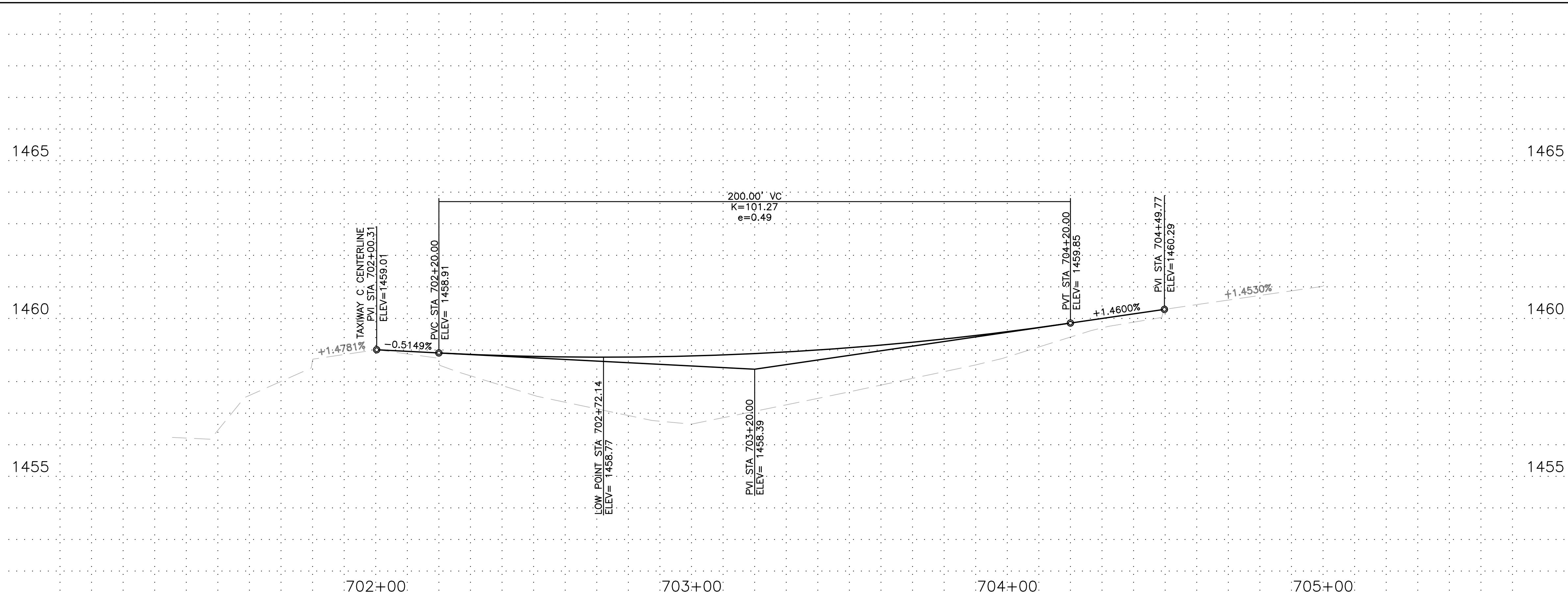
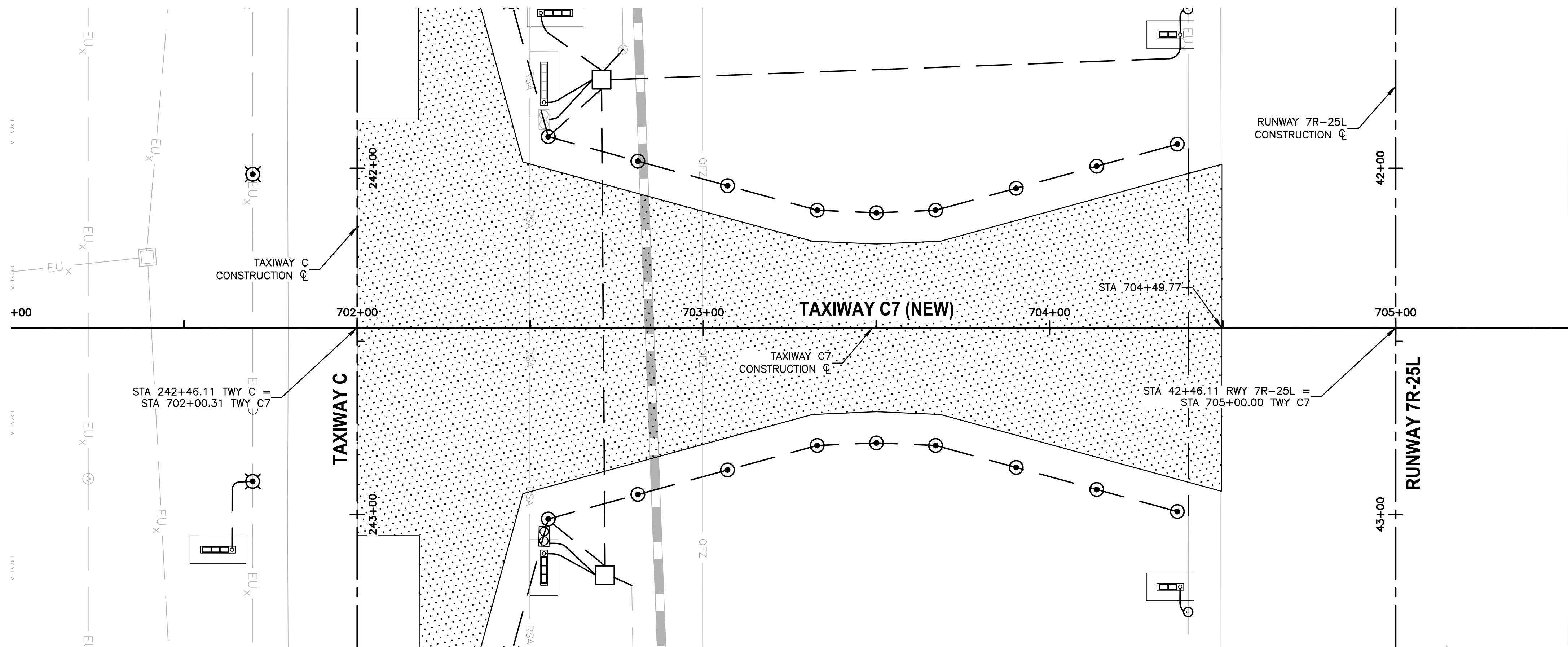
**PHX DVT BYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
**DVT TAXIWAY C  
CONNECTORS C4-C10  
(GMP 1 - C7 AND C10)**  
AV31000096 FAA/ADOT

PRIME CONSULTANT  
**TRACE**  
CONSULTING  
201 E. Jefferson St., Suite 31 Phoenix, AZ 85005

SUB CONSULTANT

90%  
SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

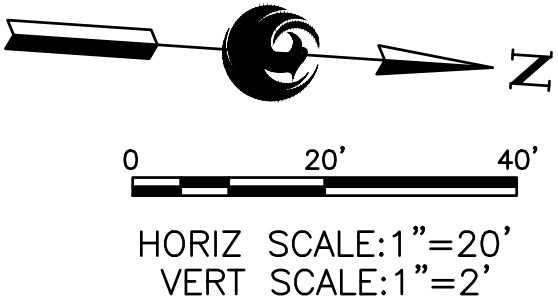
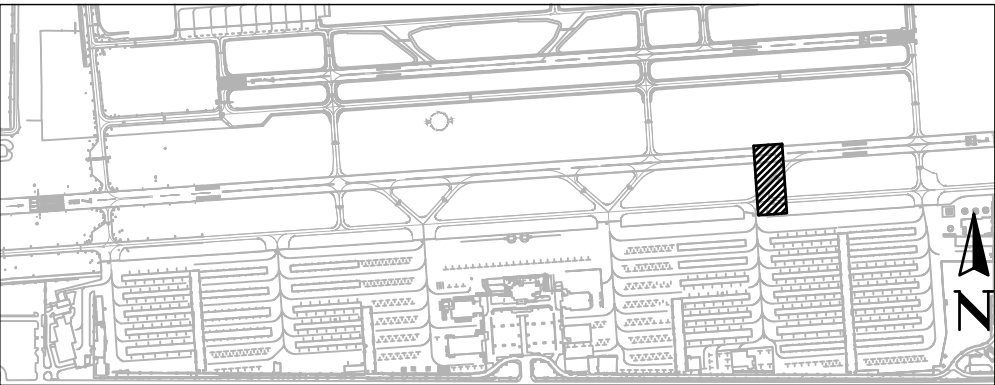
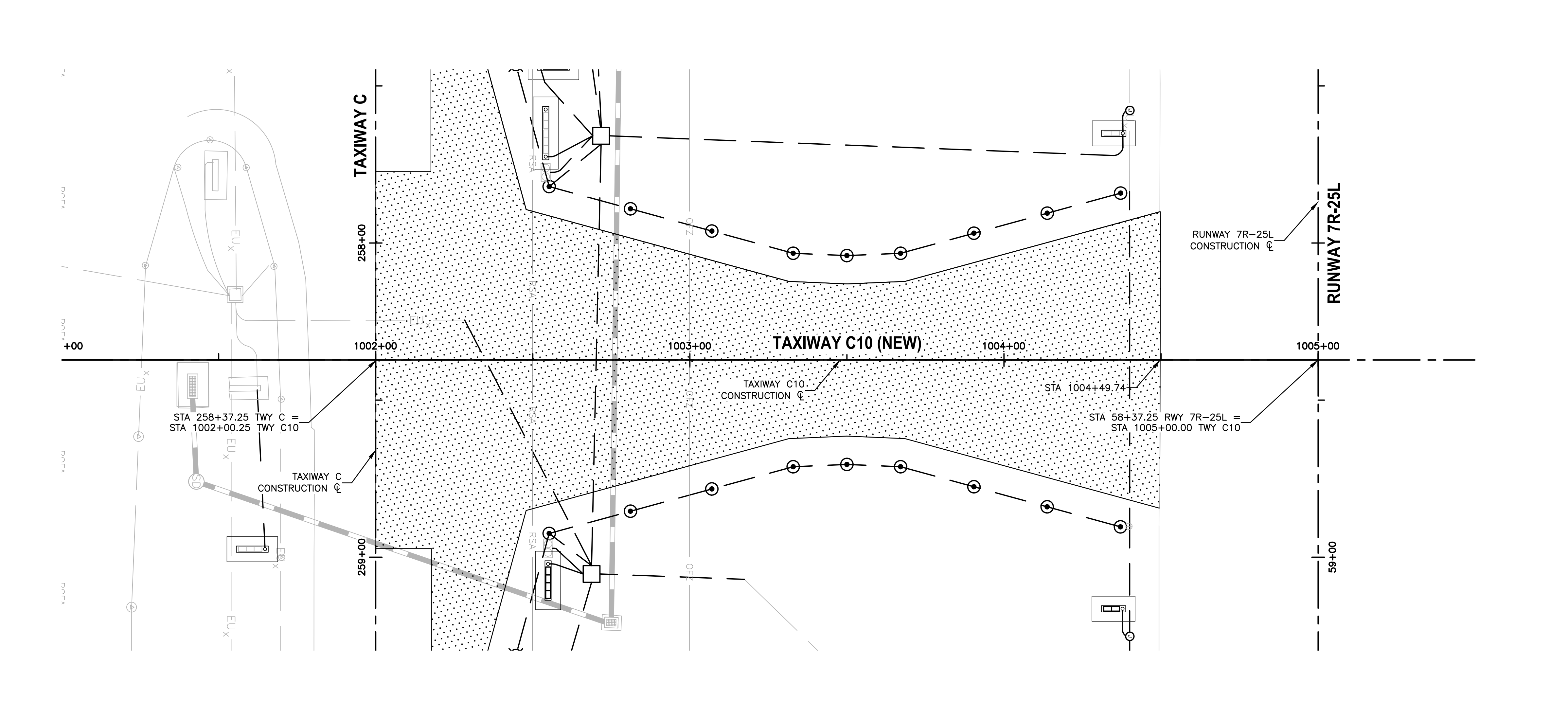
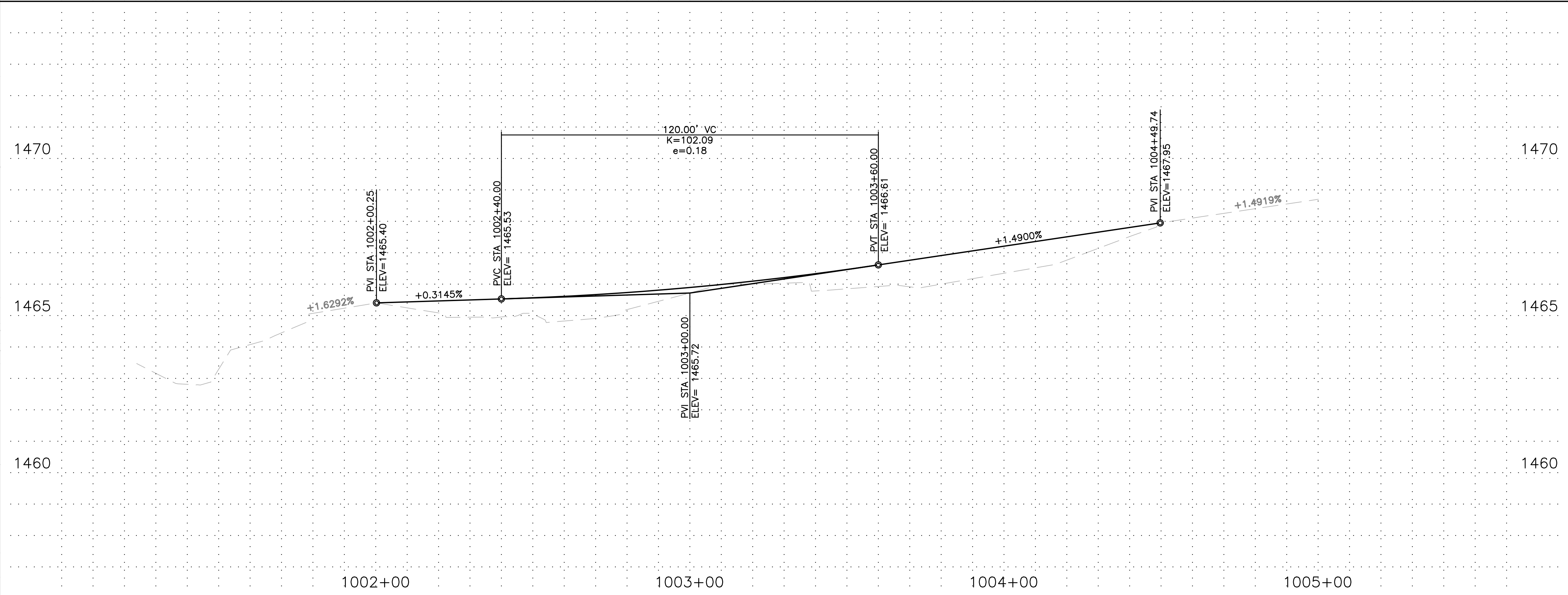




|                           |                                          |                                                                                           |                                                                                                                                                                |                                                                                                                                                                                                                                  |  |  |                  |                                                                                               |
|---------------------------|------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------|-----------------------------------------------------------------------------------------------|
| SHEET OVERVIEW TITLE      | SHEET REFERENCE NUMBER:<br><b>CP-101</b> | Designed by: GS<br>Drawn by: TR<br>Checked by: CJ<br>Date: 01/2024<br>Dwg scale: AS SHOWN | <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br><b>DVT TAXIWAY C<br/>CONNECTORS C4-C10<br/>(GMP 1 - C7 AND C10)</b><br><b>AV31000096 FAA/ADOT</b> | "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" |  |  | 90%<br>SUBMITTAL | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>155 E. GREENWAY, SUITE 1700, PHOENIX, AZ 85004 |
|                           |                                          |                                                                                           |                                                                                                                                                                | NO REVISIONS / SUBMISSIONS DATE                                                                                                                                                                                                  |  |  |                  |                                                                                               |
| TAXIWAY C7 PLAN & PROFILE |                                          | ADOT GRANT NUMBER(S):<br>E2S4V 01C & E3S3K 01C                                            |                                                                                                                                                                | PRELIMINARY FOR CONSTRUCTION                                                                                                                                                                                                     |  |  | SUB CONSULTANT   |                                                                                               |



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|                            |                                             |                |                                                 |  |
|----------------------------|---------------------------------------------|----------------|-------------------------------------------------|--|
| SHEET OVERVIEW TITLE       | Designed by: CS                             |                | PRIME CONSULTANT                                |  |
|                            | Drawn by: TR                                |                |                                                 |  |
| TAXIWAY C10 PLAN & PROFILE | Checked by: CJ                              |                | 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION |  |
|                            | Date: 01/2024                               |                |                                                 |  |
|                            | Dwg scale: AS SHOWN                         |                |                                                 |  |
|                            | ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C |                |                                                 |  |
| SHEET REFERENCE NUMBER:    | CP-102                                      |                |                                                 |  |
| SHEET 27 OF 59             |                                             | SUB CONSULTANT |                                                 |  |

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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.

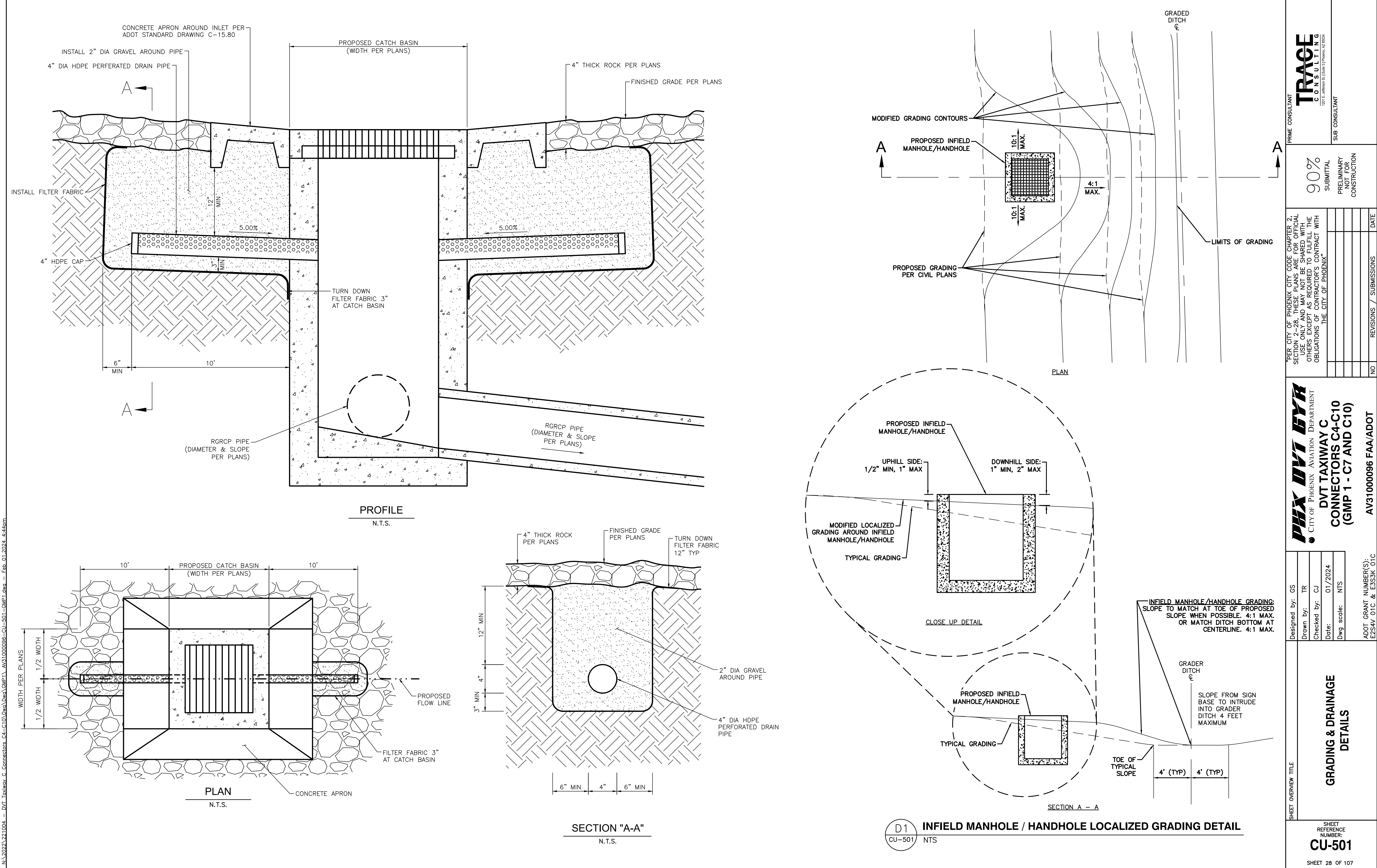
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| NO | REVISIONS / SUBMISSIONS | DATE |
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**PHX DVT BYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
**DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)**  
AV31000096 FAA/ADOT

**TRACE CONSULTING**  
207 E. Jefferson St., Suite 31 Phoenix, AZ 85005



N:\2022\221004 - DVT Taxiway C Connectors C4-C10.Dwg,GMPTX\_AV31000096-CU-501-GMP1.dwg - Feb 01,2024 4:44pm



PRIME CONSULTANT

**TRACE**  
CONSULTING  
1801 E. Jefferson St. Suite 101 Phoenix, AZ 85005

SUB CONSULTANT

90%

SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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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**PHX DVT BYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
DVT TAXIWAY C  
CONNECTORS C4-C10  
(GMP 1 - C7 AND C10)  
AV31000096 FAA/ADOT

Designed by: GS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: NTS

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

SHEET OVERVIEW TITLE

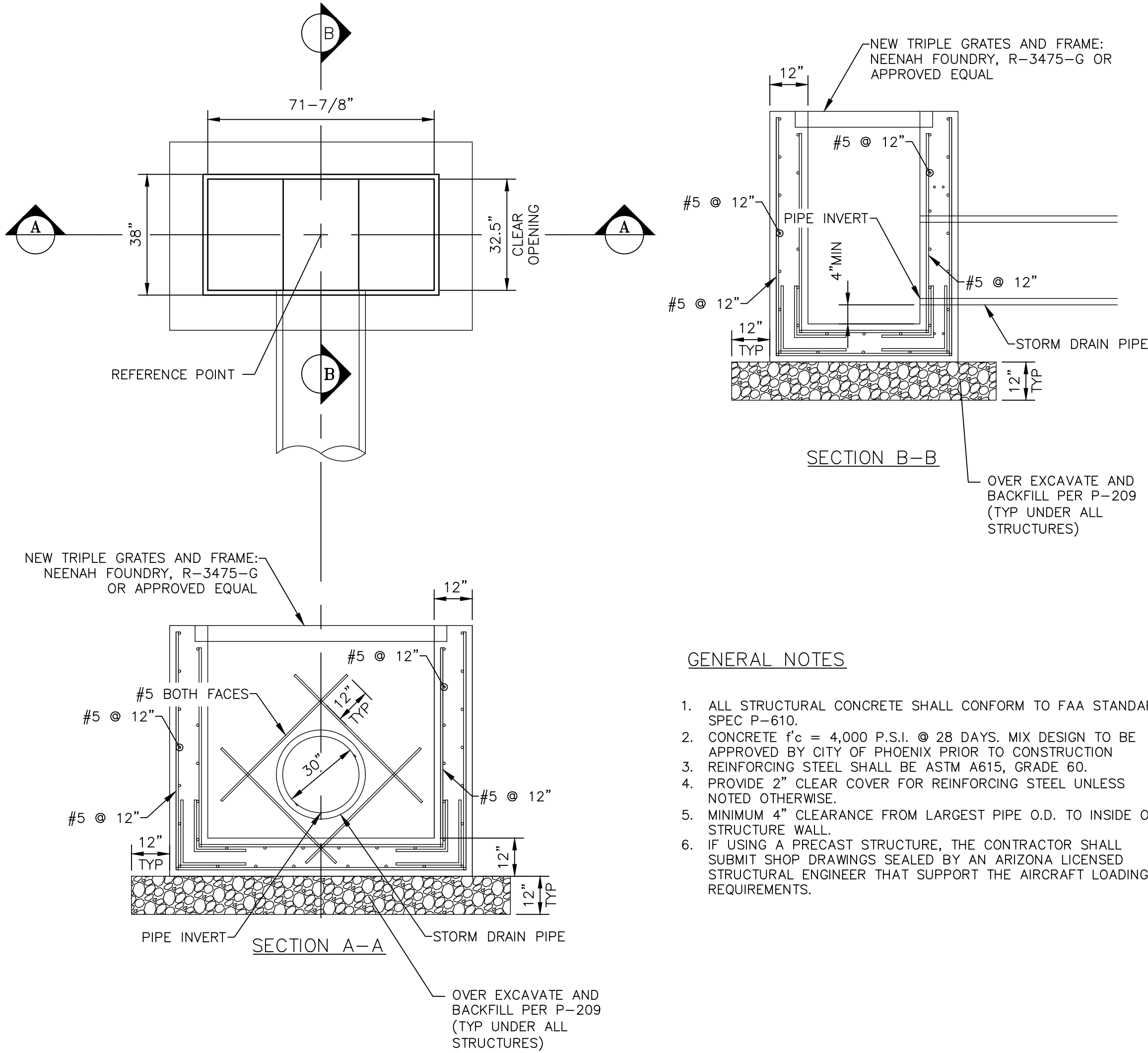
**GRADING & DRAINAGE  
DETAILS**

SHEET  
REFERENCE  
NUMBER:  
**CU-501**

SHEET 28 OF 107



N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Drawg\Drawg\MP1\ AV31000096-CU-502-GMP1.dwg - Feb 01 2024 4:44pm



GENERAL NOTES

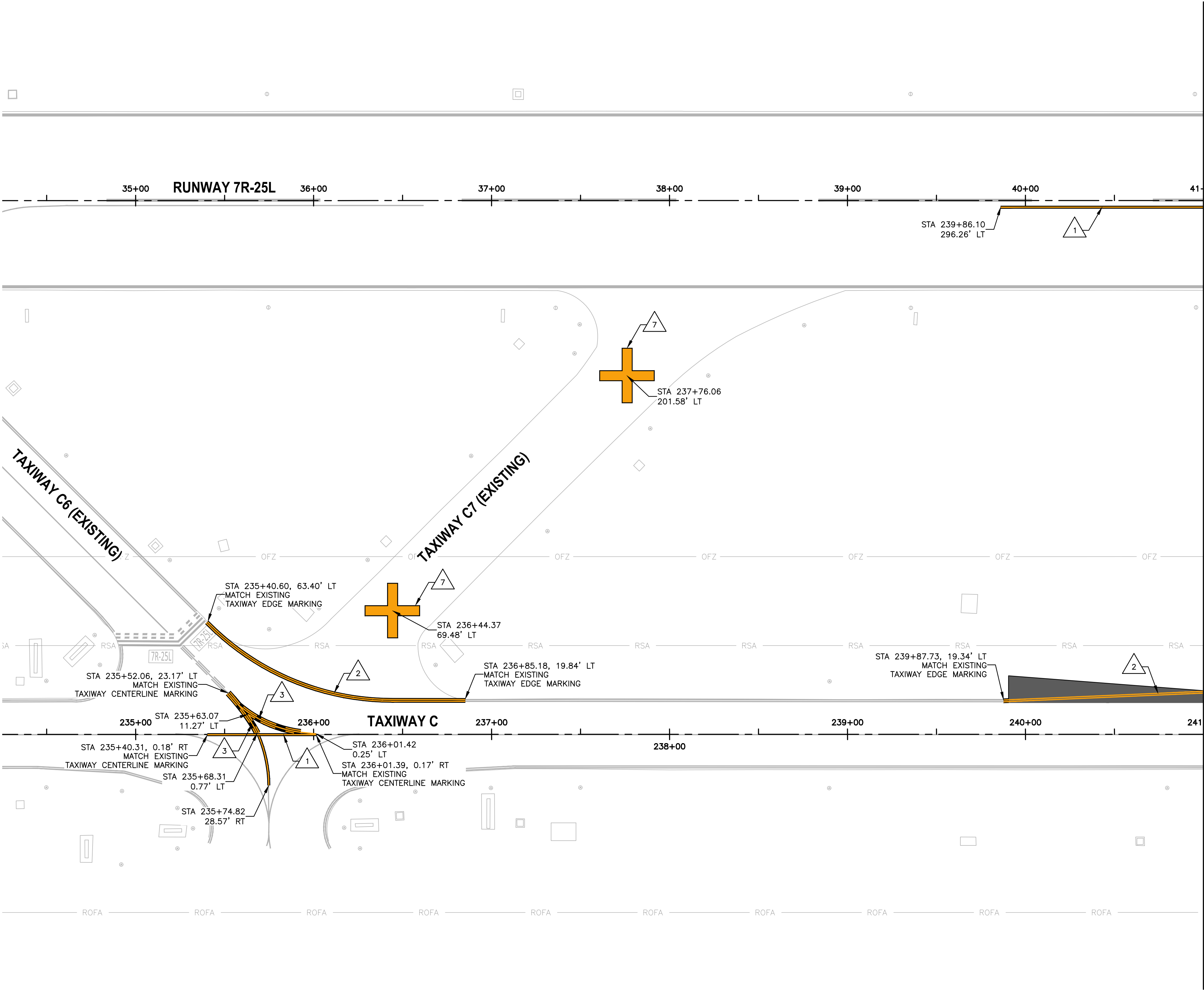
1. ALL STRUCTURAL CONCRETE SHALL CONFORM TO FAA STANDARD SPEC P-610.
2. CONCRETE  $f'_c = 4,000$  P.S.I. @ 28 DAYS. MIX DESIGN TO BE APPROVED BY CITY OF PHOENIX PRIOR TO CONSTRUCTION
3. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
4. PROVIDE 2" CLEAR COVER FOR REINFORCING STEEL UNLESS NOTED OTHERWISE.
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.

D1  
CU-502 NTS  
**NEW TRIPLE GRATE CATCH BASIN**

|                      |                                          |                                                                                      |                                                |                                                                                                                                         |                                                                                                                                                                                                                                 |                                                 |                                                                                                  |                |
|----------------------|------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------|
| SHEET OVERVIEW TITLE | SHEET REFERENCE NUMBER:<br><b>CU-502</b> | DESIGNED BY: GS<br>DRAWN BY: TR<br>CHECKED BY: CJ<br>DATE: 01/2024<br>DWG SCALE: NTS | ADOT GRANT NUMBER(S):<br>E2S4V 01C & E3S3K 01C | PHX DVT BYR<br>CITY OF PHOENIX AVIATION DEPARTMENT<br>DVT TAXIWAY C<br>CONNECTORS C4-C10<br>(GMP 1 - C7 AND C10)<br>AV31000096 FAA/ADOT | 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. | 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>1201 E. Jefferson St., Suite 31 Phoenix, AZ 85004 | SUB CONSULTANT |
|                      |                                          |                                                                                      |                                                |                                                                                                                                         |                                                                                                                                                                                                                                 |                                                 |                                                                                                  |                |
|                      |                                          |                                                                                      |                                                | NO                                                                                                                                      | REVISIONS / SUBMISSIONS                                                                                                                                                                                                         | DATE                                            |                                                                                                  |                |



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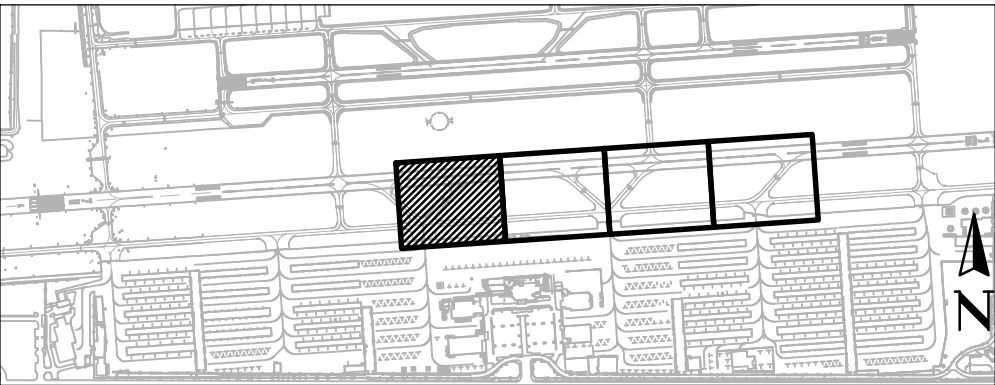
MATCHLINE SEE SHEET CT-102

PAVEMENT MARKING NOTES

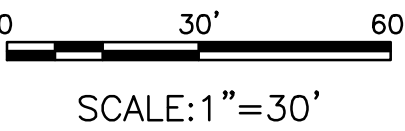
- 1 PAINT TAXIWAY CENTERLINE MARKING PER DTL D1, SHEET CT-501
- 2 PAINT TAXIWAY EDGE MARKING PER DTL D2, SHEET CT-501
- 3 PAINT ENHANCED TAXIWAY CENTERLINE MARKING PER DTL D3 & D7, SHEET CT-501
- 7 PAINT TAXIWAY CLOSURE MARKER PER DTL D8, SHEET CT-501

REFERENCE NOTES

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



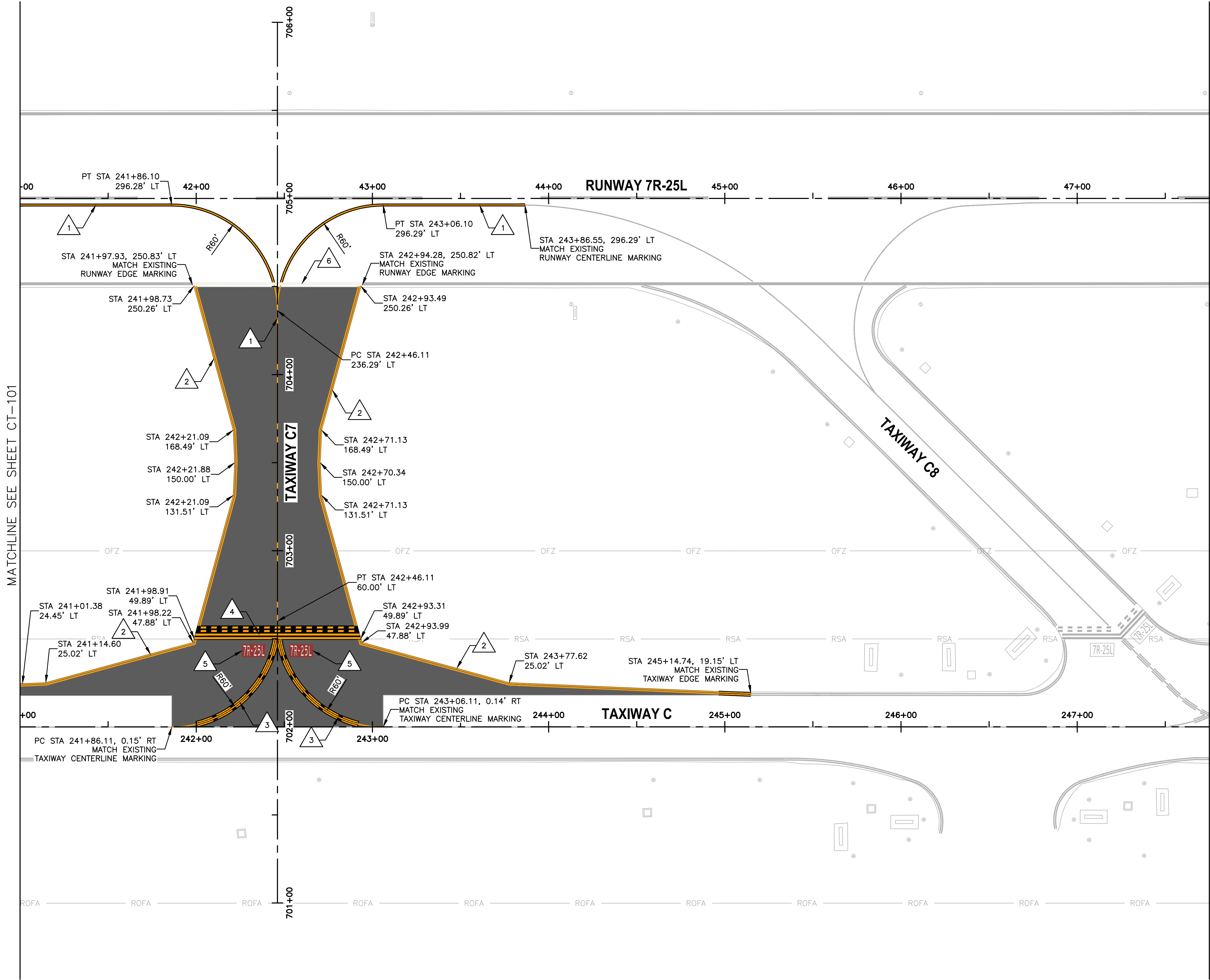
KEY MAP



|                                                                                                                                                                                                                                   |                |                                                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------|--|
| PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br><small>1801 E. Jefferson St., Suite 1 Phoenix, AZ 85025</small>                                                                                                                    | SUB CONSULTANT | 90%<br>SUBMITTAL<br>PRELIMINARY<br>CONSTRUCTION |  |
|                                                                                                                                                                                                                                   |                |                                                 |  |
| PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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. |                |                                                 |  |
|                                                                                                                                                                                                                                   |                |                                                 |  |
| <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br><b>DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)</b><br>AV31000096 FAA/ADOT                                                                                   |                |                                                 |  |
|                                                                                                                                                                                                                                   |                |                                                 |  |
| SHEET OVERVIEW TITLE                                                                                                                                                                                                              |                | AIRFIELD MARKING PLAN                           |  |
| SHEET REFERENCE NUMBER:<br><b>CT-101</b>                                                                                                                                                                                          |                | SHEET 30 OF 59                                  |  |



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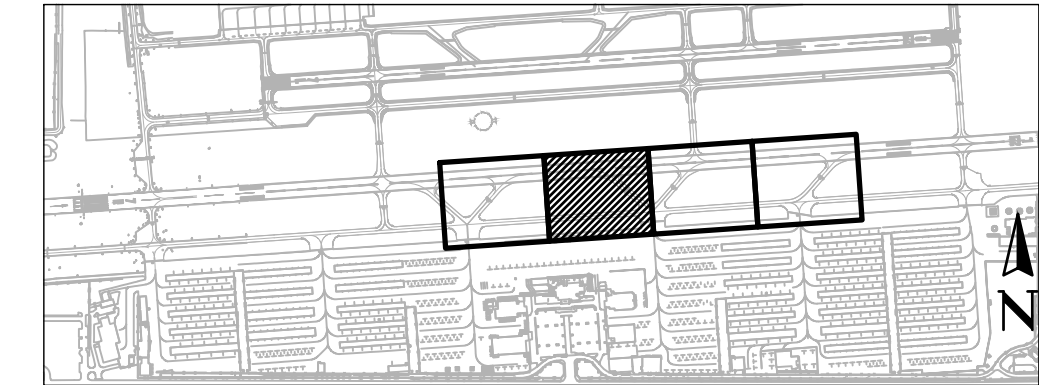


PAVEMENT MARKING NOTES

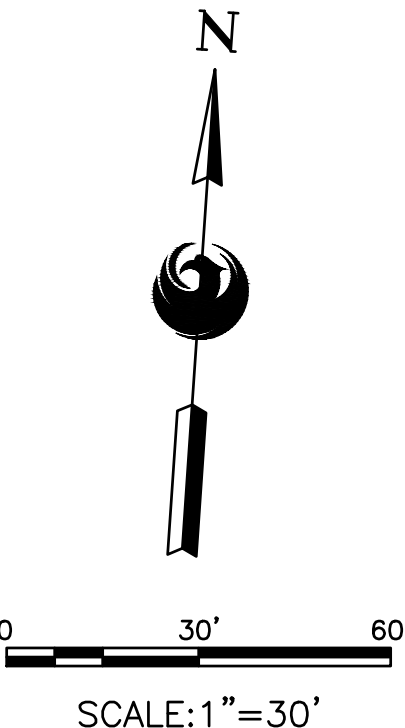
- 1 PAINT TAXIWAY CENTERLINE MARKING PER DTL D1, SHEET CT-501
- 2 PAINT TAXIWAY EDGE MARKING PER DTL D2, SHEET CT-501
- 3 PAINT ENHANCED TAXIWAY CENTERLINE MARKING PER DTL D3 & D7, SHEET CT-501
- 4 PAINT RUNWAY HOLDING POSITION MARKING PER DTL D4, SHEET CT-501
- 5 PAINT SURFACE PAINTED HOLDING POSITION 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 C UNLESS OTHERWISE NOTED.



KEY MAP



PRIME CONSULTANT

**TRACE**  
CONSULTING  
1801 E. Jefferson St., Suite 101 Phoenix, AZ 85004

SUB CONSULTANT

90%  
SUBMITTAL  
PRELIMINARY  
CONSTRUCTION

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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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|  |    |           |             |      |
|  |    |           |             |      |

PHX DVT BYR  
CITY OF PHOENIX AVIATION DEPARTMENT

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

AV31000096 FAA/ADOT

Designed by: CS

Drawn by: TR

Checked by: CJ

Date: 01/2024

Dwg scale: AS SHOWN

ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

SHEET OVERVIEW TITLE

AIRFIELD MARKING PLAN

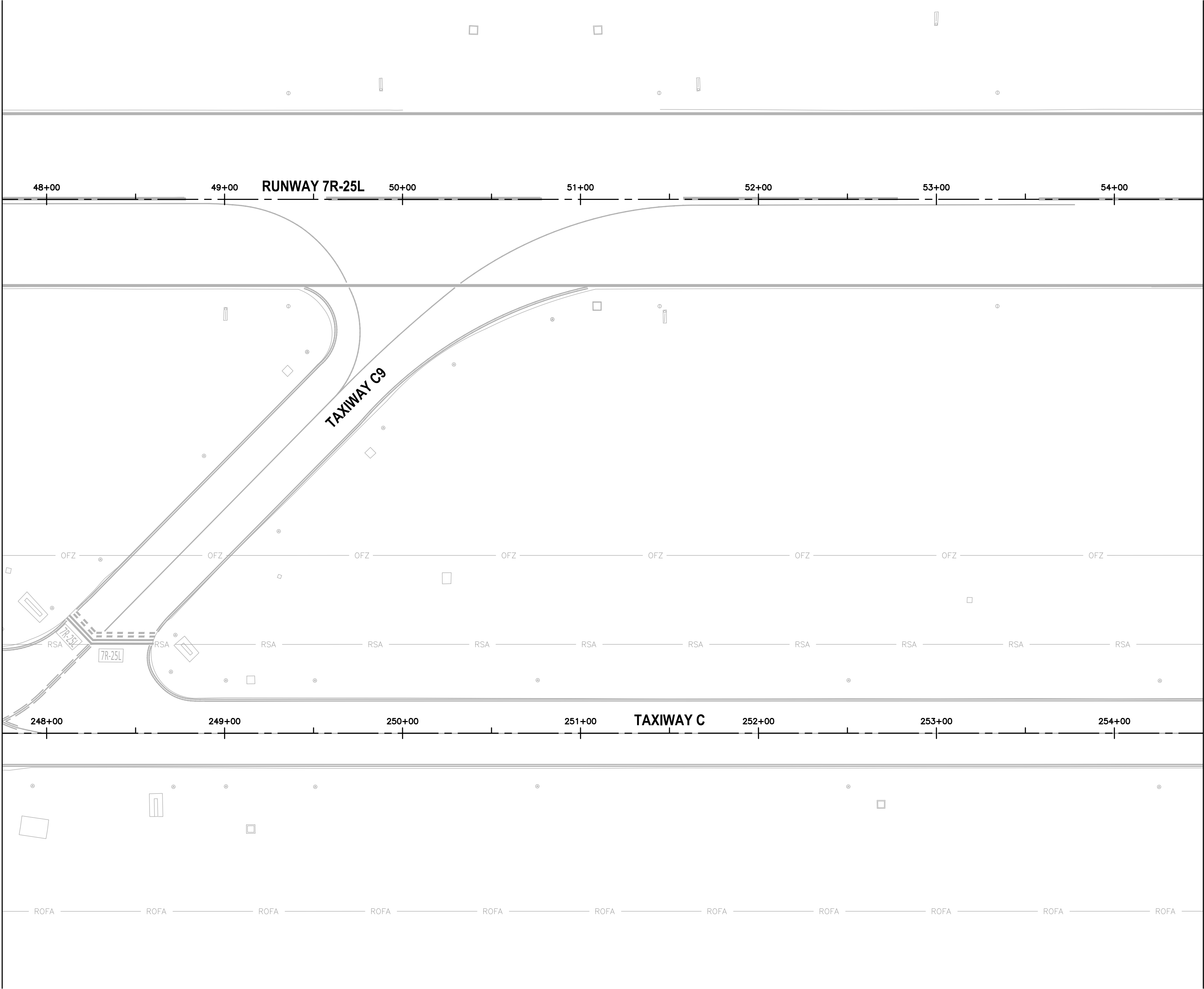
SHEET REFERENCE NUMBER:  
**CT-102**

SHEET 31 OF 59



N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Drawg\Drawg\MP1\ AV31000096-CT-103-GMP1.dwg -- Feb 01/2024 4:45pm

MATCHLINE SEE SHEET CT-102



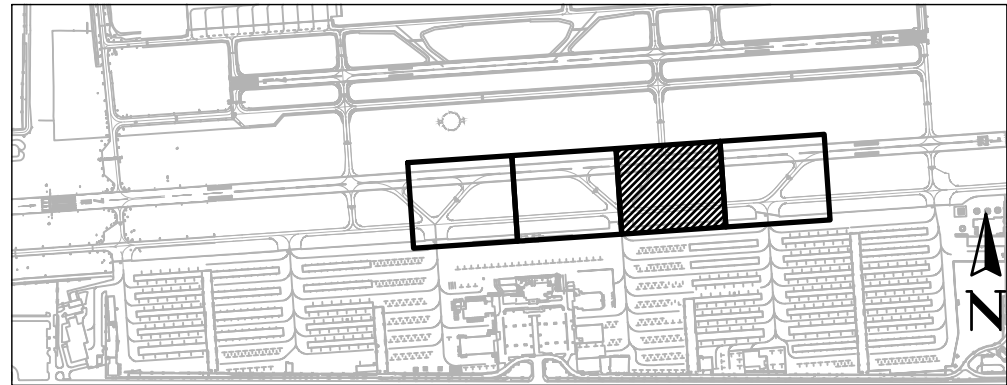
MATCHLINE SEE SHEET CT-104

PAVEMENT MARKING NOTES

NO WORK THIS SHEET

REFERENCE NOTES

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



KEY MAP



0 30' 60'

SCALE: 1" = 30'

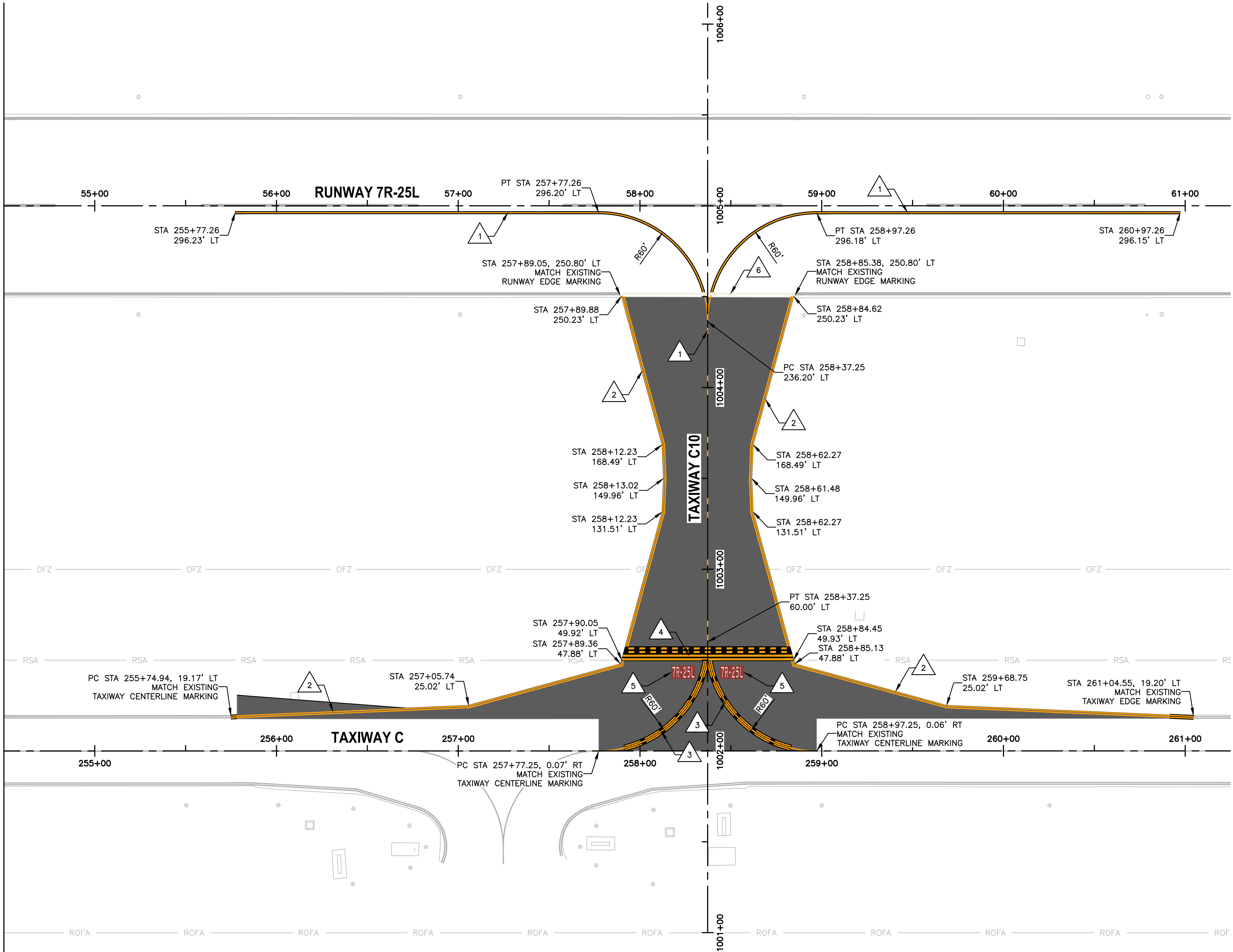


|                                                                                                                                         |                                          |                |                                                                                                 |                |                                                     |                                                                                                                                                                                                                                   |    |  |                         |  |      |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|-------------------------|--|------|
| SHEET OVERVIEW TITLE                                                                                                                    | SHEET REFERENCE NUMBER:<br><b>CT-103</b> | SHEET 32 OF 59 | PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>1201 E. Jefferson St., Suite 3 Phoenix, AZ 85004 | SUB CONSULTANT | SUBMITTAL<br><b>90%</b><br>PRELIMINARY CONSTRUCTION | PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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<br>CITY OF PHOENIX AVIATION DEPARTMENT<br>DVT TAXIWAY C<br>CONNECTORS C4-C10<br>(GMP 1 - C7 AND C10)<br>AV31000096 FAA/ADOT |                                          |                |                                                                                                 |                |                                                     |                                                                                                                                                                                                                                   |    |  |                         |  |      |



N:\2022\221004 - DVT Taxiway C Connectors C4-C10\Drawings\GMP1\ AV31000096-CT-104-GMP1.dwg - Feb 01/2024 4:45pm

MATCHLINE SEE SHEET CT-103

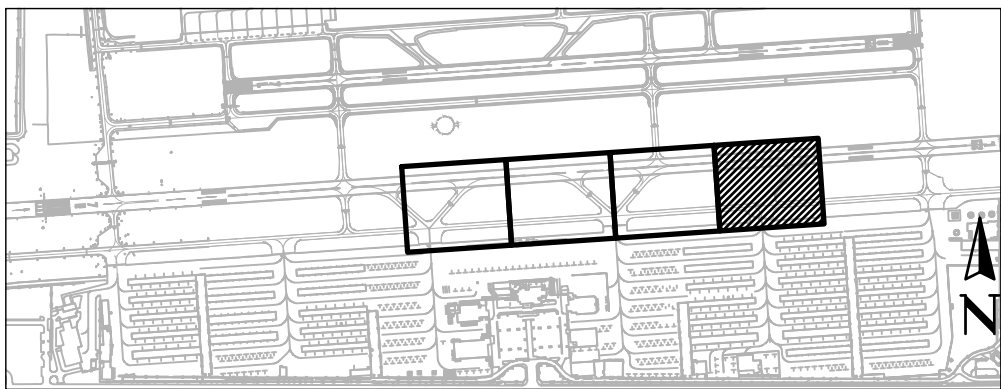


### PAVEMENT MARKING NOTES

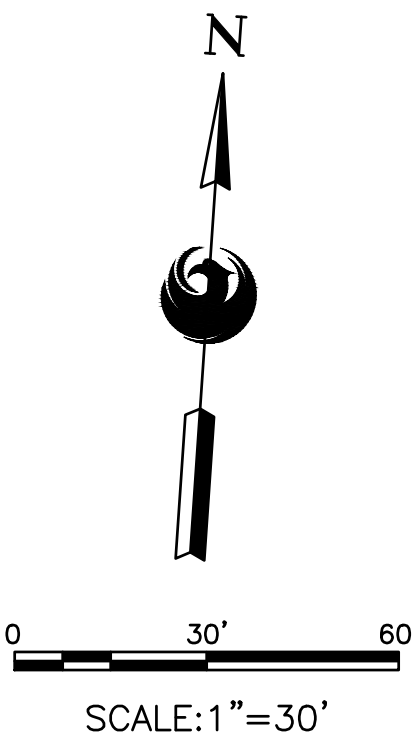
- 1 PAINT TAXIWAY CENTERLINE MARKING PER DTL D1, SHEET CT-501
- 2 PAINT TAXIWAY EDGE MARKING PER DTL D2, SHEET CT-501
- 3 PAINT ENHANCED TAXIWAY CENTERLINE MARKING PER DTL D3 & D7, SHEET CT-501
- 4 PAINT RUNWAY HOLDING POSITION MARKING PER DTL D4, SHEET CT-501
- 5 PAINT SURFACE PAINTED HOLDING POSITION 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 C UNLESS OTHERWISE NOTED.



KEY MAP



|                     |
|---------------------|
| Designed by: CS     |
| Drawn by: TR        |
| Checked by: CJ      |
| Date: 01/2024       |
| Dwg scale: AS SHOWN |

SHEET OVERVIEW TITLE

AIRFIELD MARKING PLAN

SHEET  
REFERENCE  
NUMBER:  
**CT-104**

SHEET 33 OF 59

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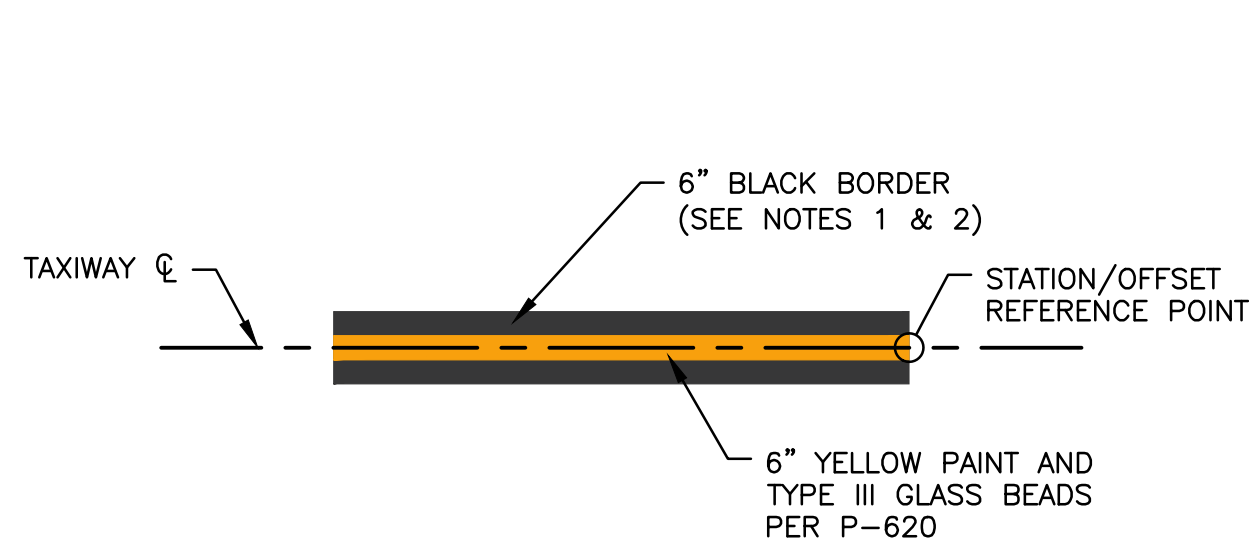
**PHX DVT BYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
**DVT TAXIWAY C  
CONNECTORS C4-C10  
(GMP 1 - C7 AND C10)**  
AV31000096 FAA/ADOT

PRIME CONSULTANT  
**TRACE**  
CONSULTING  
1201 E. Jefferson St., Suite 1 Phoenix, AZ 85005

SUB CONSULTANT

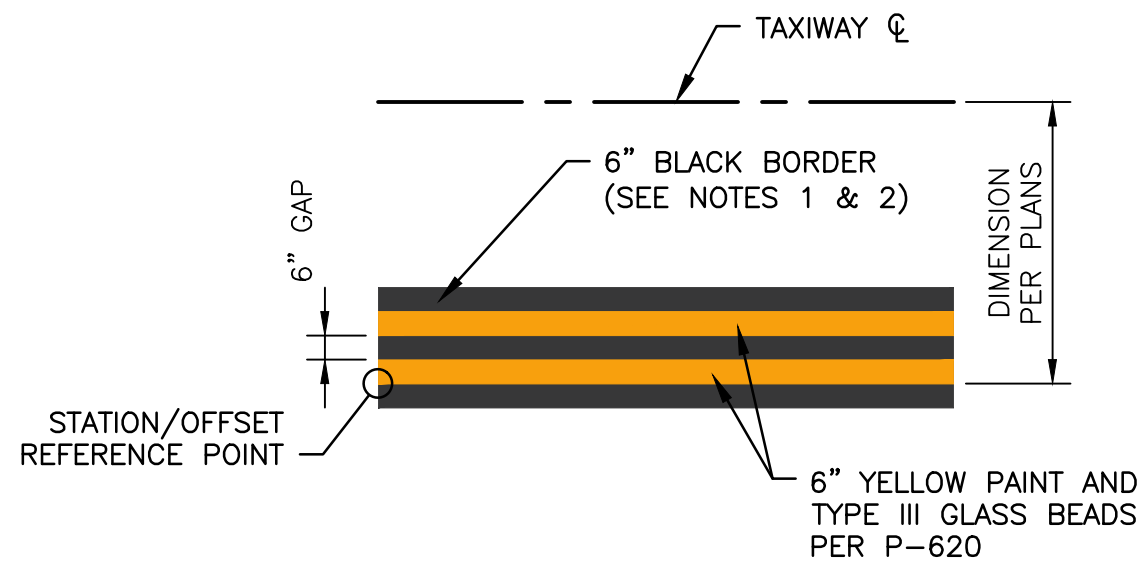
90%  
SUBMITTAL  
PRELIMINARY  
CONSTRUCTION





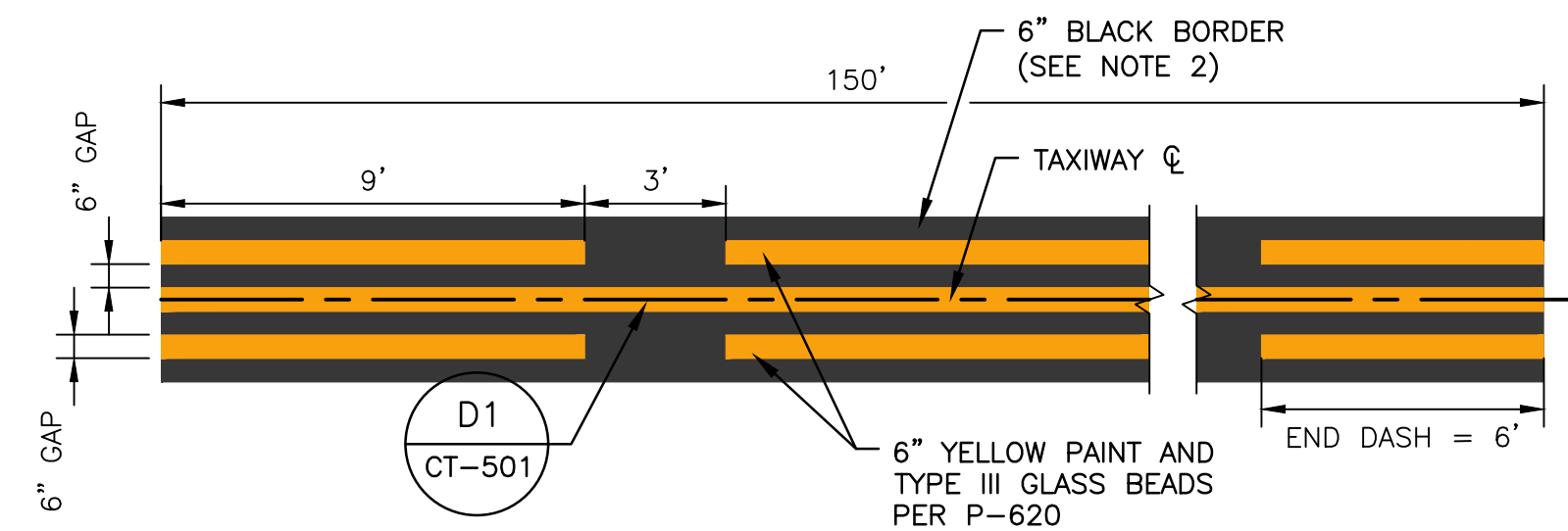
- NOTES:
1. BLACK BORDER NOT TO BE PAINTED FOR MARKINGS ON NEW ASPHALT.
  2. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
  3. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

D1 **TAXIWAY CENTERLINE MARKING**  
CT-501 NTS



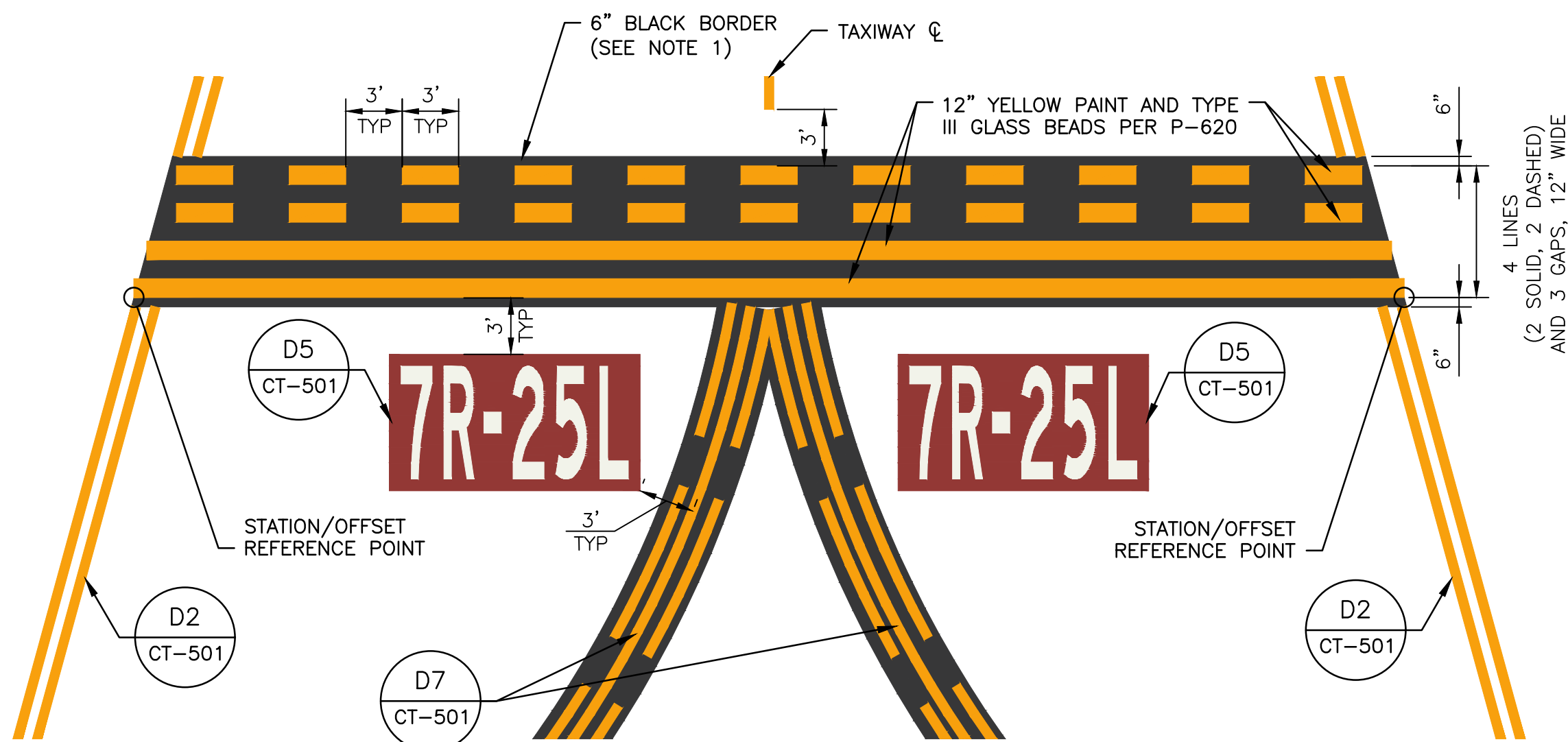
- NOTES:
1. BLACK BORDER NOT TO BE PAINTED FOR MARKINGS ON NEW ASPHALT.
  2. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
  3. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

## D2 CT-501 **CONTINUOUS TAXIWAY EDGE MARKING**



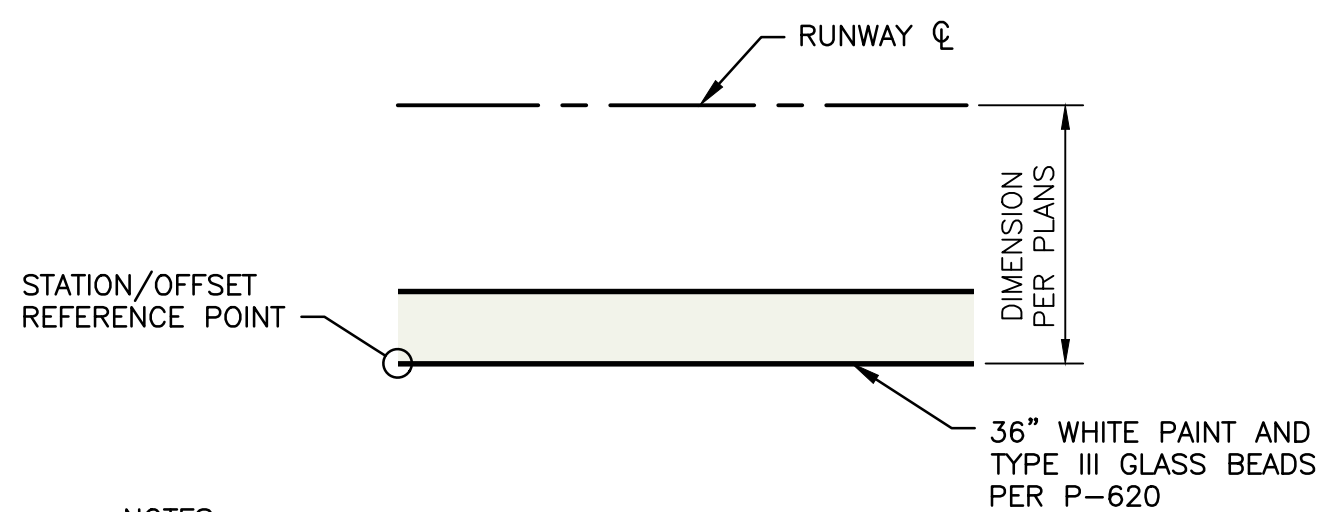
- NOTES:
1. ENHANCED TAXIWAY CENTERLINE MARKING DIMENSIONS TAKEN ALONG TAXIWAY CENTERLINE.
  2. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
  3. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

## D3 ENHANCED TAXIWAY CENTERLINE MARKING



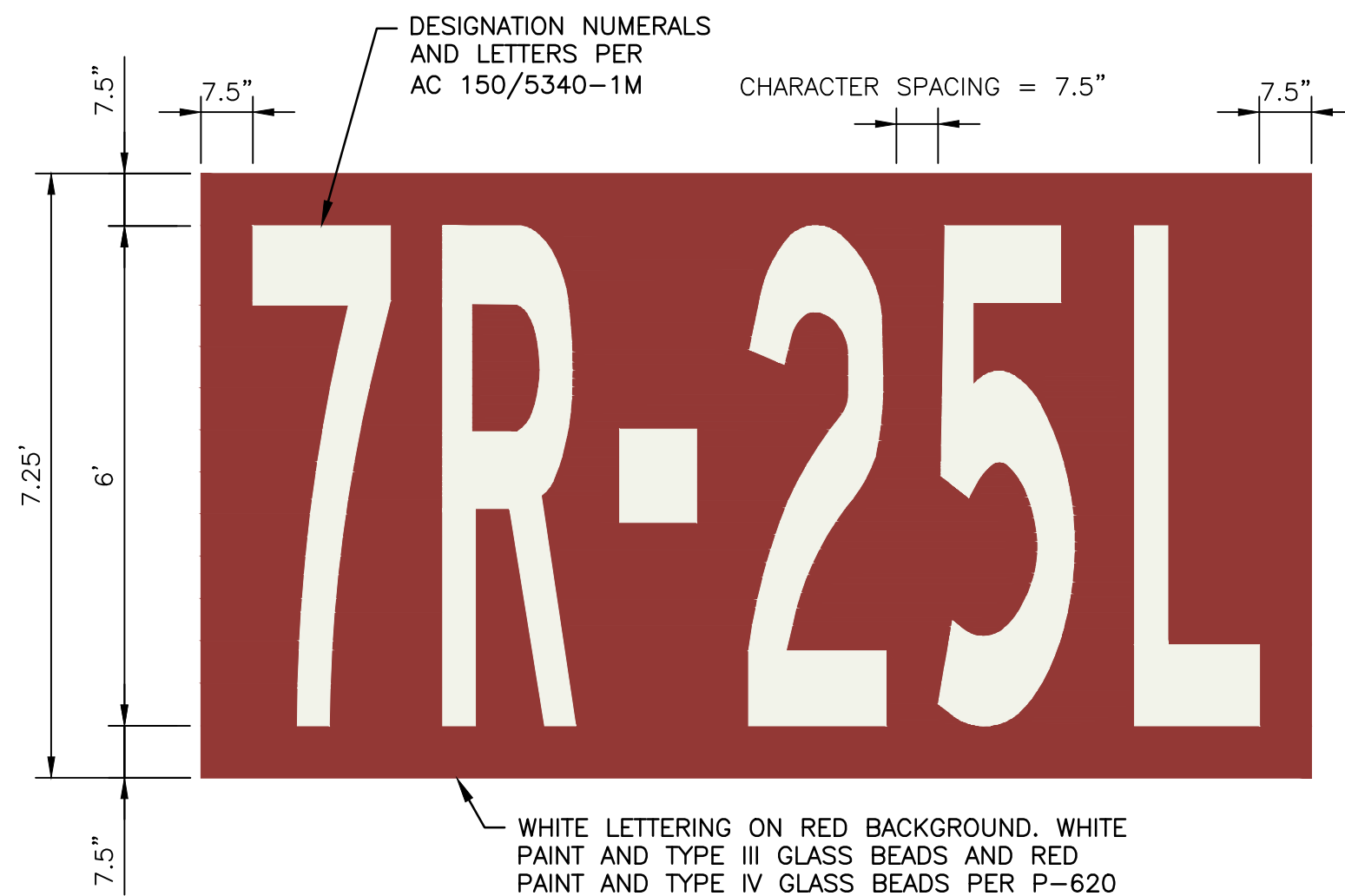
- NOTES:
1. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
  2. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

|        |                                                   |
|--------|---------------------------------------------------|
| D4     | <b>RUNWAY HOLDING POSITION MARKING DIMENSIONS</b> |
| CT-501 | NTS                                               |



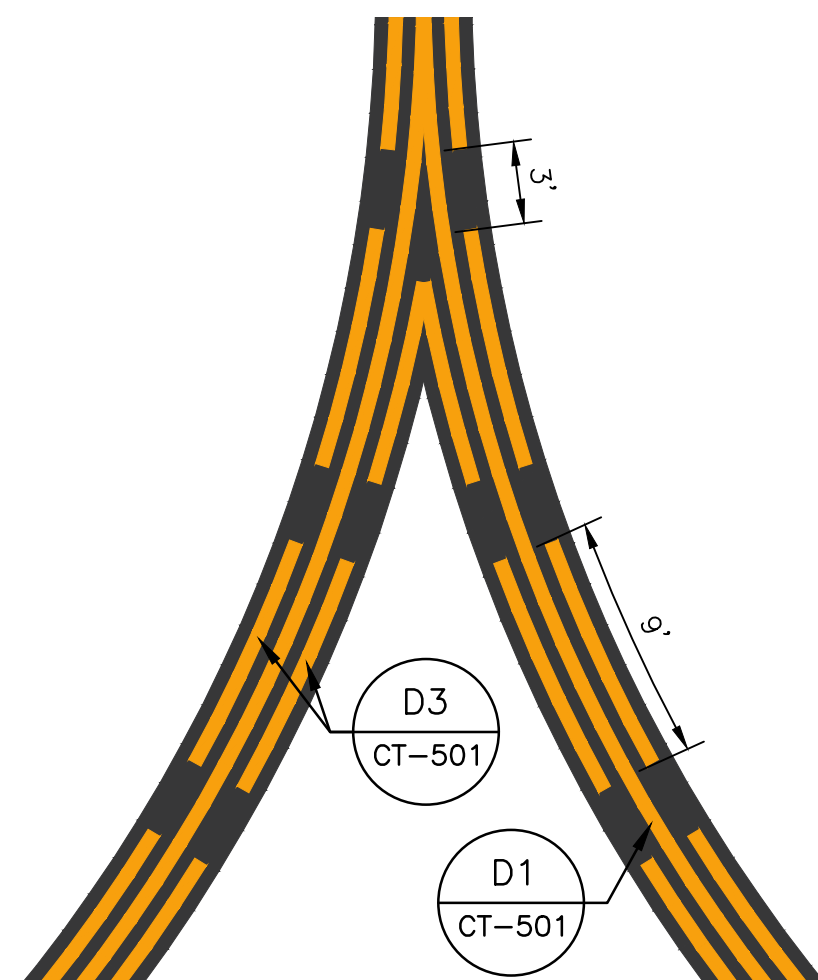
- NOTES:
1. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
  2. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

D6  
CT-501



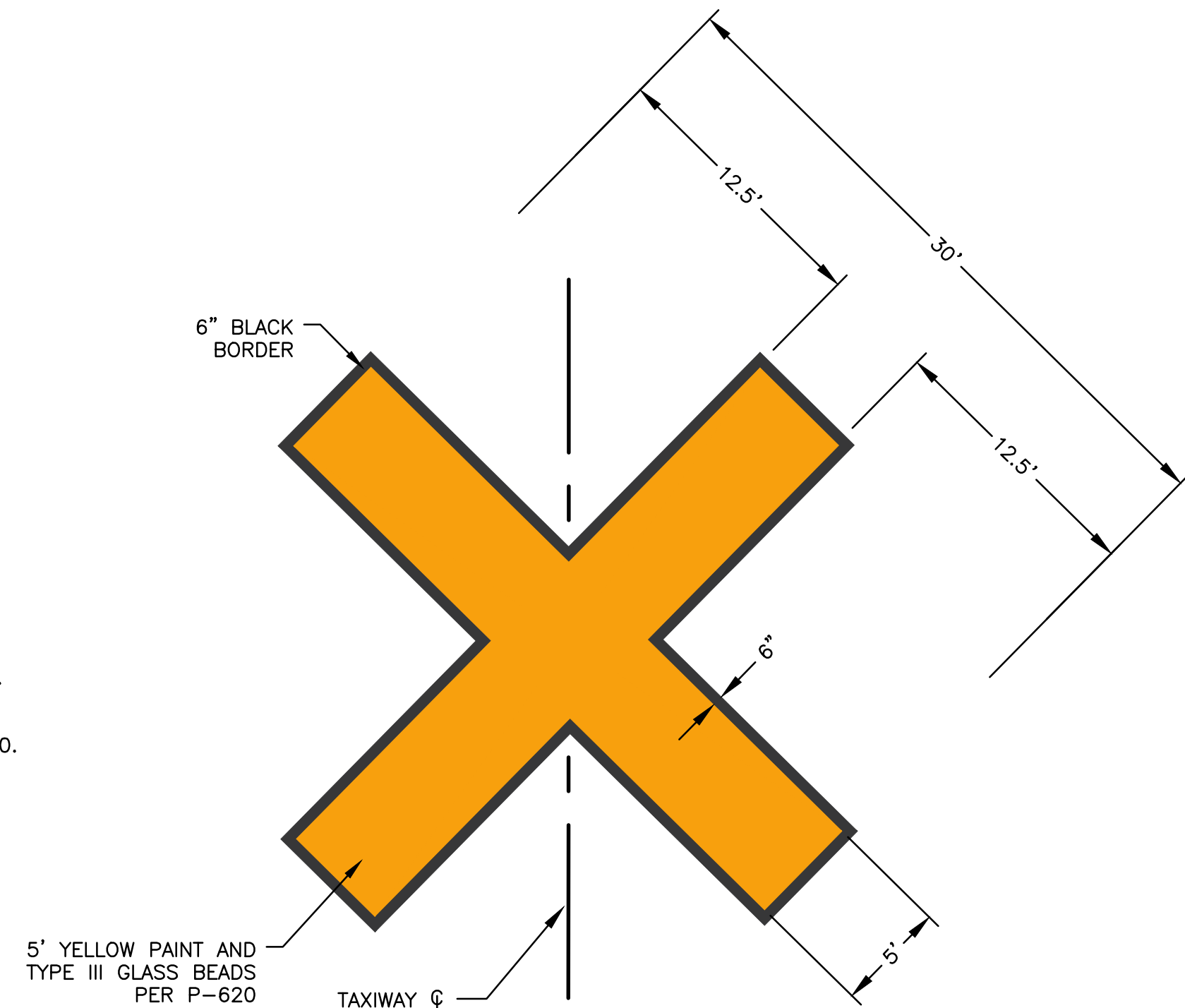
- NOTES:
1. 7R-25L SIGN SHOWN FOR REFERENCE, SEE MARKING PLANS FOR INSCRIPTIONS AND LOCATIONS.
  2. BLACK BORDER NOT TO BE PAINTED FOR MARKINGS ON NEW ASPHALT.
  3. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS.
  4. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

**SURFACE PAINTED HOLDING POSITION SIGN**



- 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.

**DASHED LINES AT CONVERGING TAXIWAY CENTERLINES**



- 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 TAXIWAY CLOSURE MARKING

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

**SUB CONSULTANT**

90% SUBMITTAL

PRELIMINARY  
NOT FOR  
CONSTRUCTION

"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"

[illegible]

**PHX DOT BYR**  
CITY OF PHOENIX AVIATION DEPARTMENT

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

AV31000096 FAA/ADOT

Designed by: GS

Drawn by:

Checked by: \_\_\_\_\_

Date: 01/2024

Dwg scale: NTS

SHEET OVERVIEW TITLE

## AIRFIELD MARKING DETAILS

SHEET  
REFERENCE  
NUMBER:  
**CT-501**

SHEET 34 OF 59



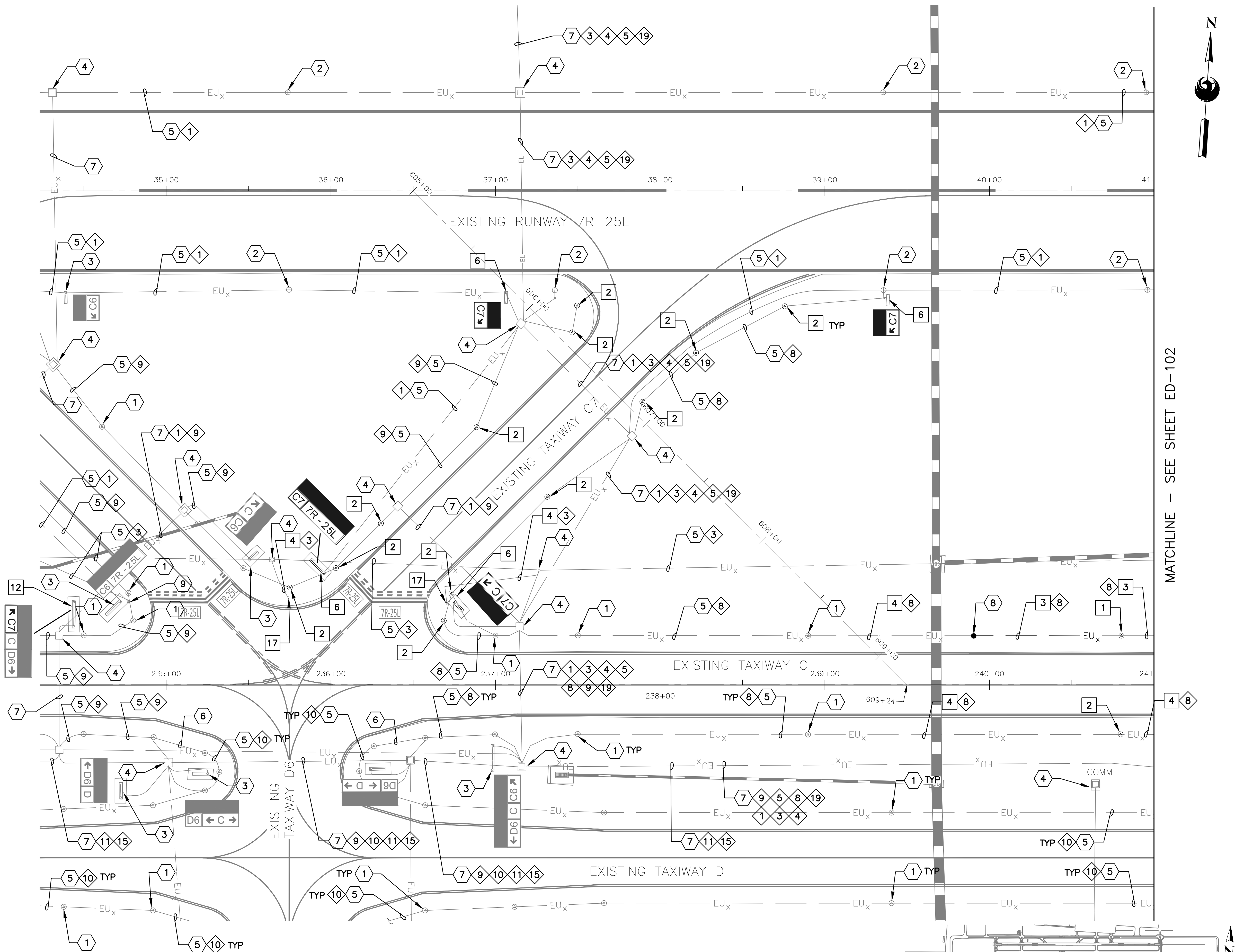




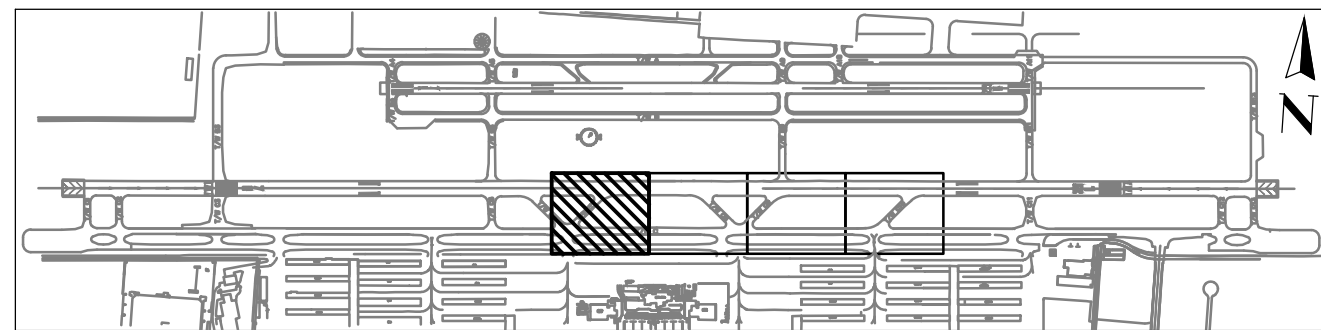




C:\PROJECTS\220000\22002 DVT Tax C Connectors C4-C10\CAD\CAD SHEETS\ 22002 ED-101 - ED-11XX - GMP1.dwg - Jan. 29, 2024, 2:03pm



MATCHLINE - SEE SHEET ED-102



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.

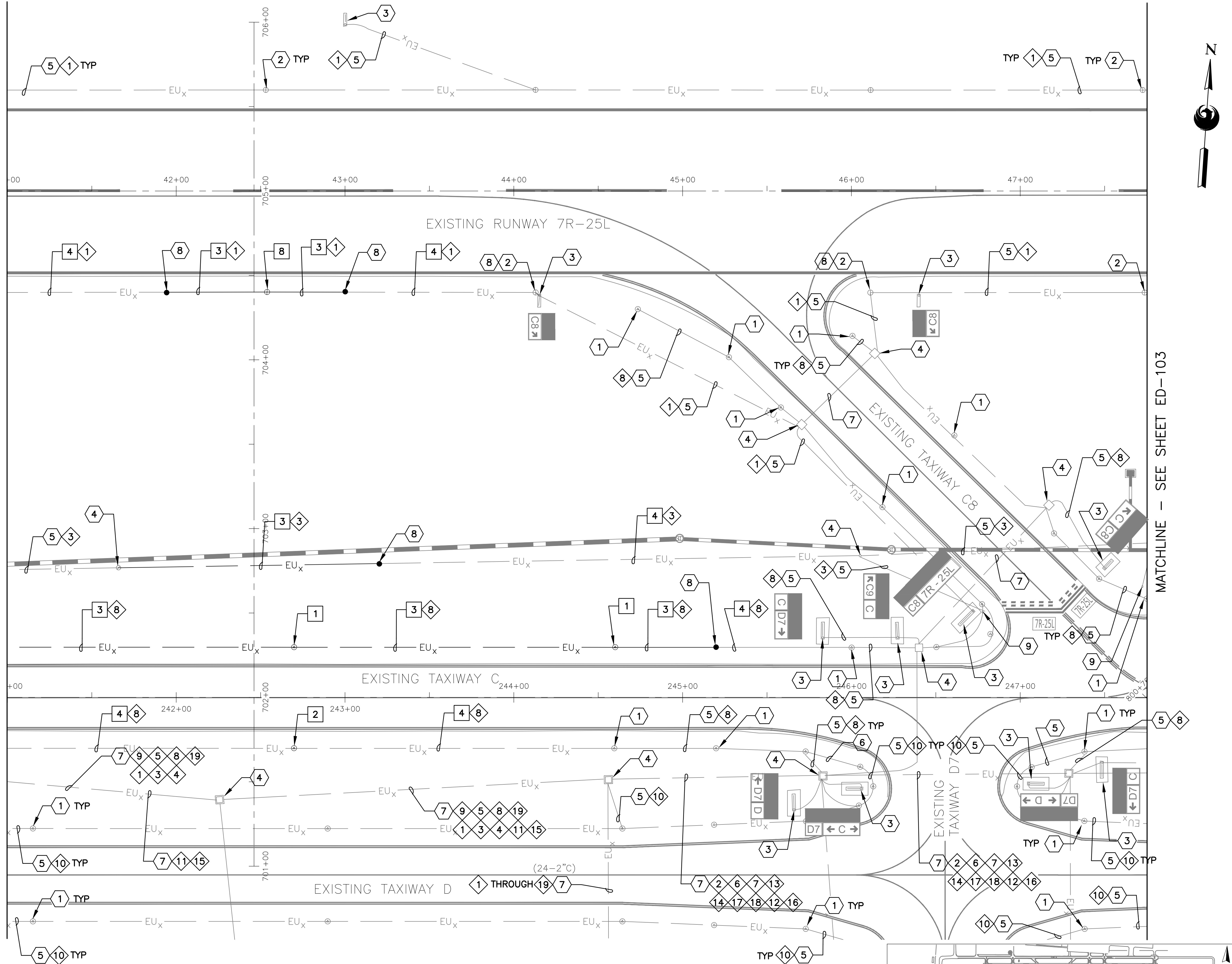


SCALE: 1" = 30'

|                                                                                                                                                                                                                              |  |                                                                           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|
| <b>TRACE CONSULTING</b><br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.traceaz.com                                                              |  | <b>CR engineers</b><br>1201 E. McDowell Rd., Suite 100, Phoenix, AZ 85006 |  |
| PRIME CONSULTANT                                                                                                                                                                                                             |  | SUB CONSULTANT                                                            |  |
| 90% SUBMITTAL                                                                                                                                                                                                                |  | PRELIMINARY FOR CONSTRUCTION                                              |  |
| PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-26, THESE PLANS OR ANY PART THEREOF ARE NOT TO BE SHARED WITH ANY OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX. |  | DATE                                                                      |  |
| PHX DVT BYR                                                                                                                                                                                                                  |  | NO REVISIONS / SUBMISSIONS                                                |  |
| CITY OF PHOENIX AVIATION DEPARTMENT                                                                                                                                                                                          |  | DATE                                                                      |  |
| DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)                                                                                                                                                                         |  | DATE                                                                      |  |
| AV31000096 FAA/ADOT                                                                                                                                                                                                          |  | DATE                                                                      |  |
| ADOT GRANT NUMBER(S): E254V 01C & E353K 01C                                                                                                                                                                                  |  | DATE                                                                      |  |
| Designed by: SW                                                                                                                                                                                                              |  | SHEET OVERVIEW TITLE                                                      |  |
| Drawn by: JBW                                                                                                                                                                                                                |  | AIRFIELD ELECTRICAL DEMOLITION PLAN                                       |  |
| Checked by: CA                                                                                                                                                                                                               |  | SHEET REFERENCE NUMBER:                                                   |  |
| Date: 01/2024                                                                                                                                                                                                                |  | ED-101                                                                    |  |
| Dwg scale: 1" = 30'                                                                                                                                                                                                          |  | SHEET 37 OF 56                                                            |  |



MATCHLINE - SEE SHEET ED-101



MATCHLINE - SEE SHEET ED-103

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.

PRIME CONSULTANT

**TRACE**  
CONSULTING

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

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

90%

SUBMITTAL  
NO. 100  
PRELIMINARY  
NO. 100  
CONSTRUCTION

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

Designed by: SW

Drawn by: JBW

Checked by: CA

Date: 01/2024

Dwg scale: 1" = 30'

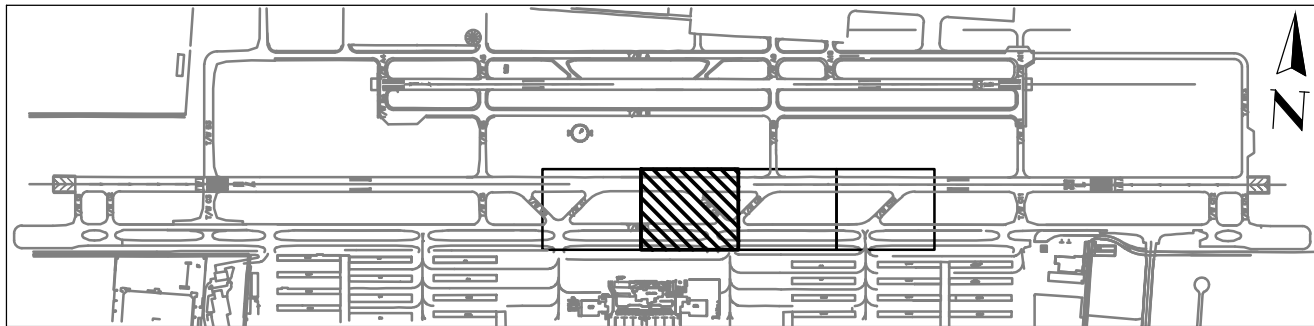
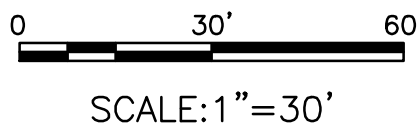
ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

SHEET OVERVIEW TITLE

**AIRFIELD ELECTRICAL  
DEMOLITION PLAN**

SHEET  
REFERENCE  
NUMBER:  
**ED-102**

SHEET 38 OF 56

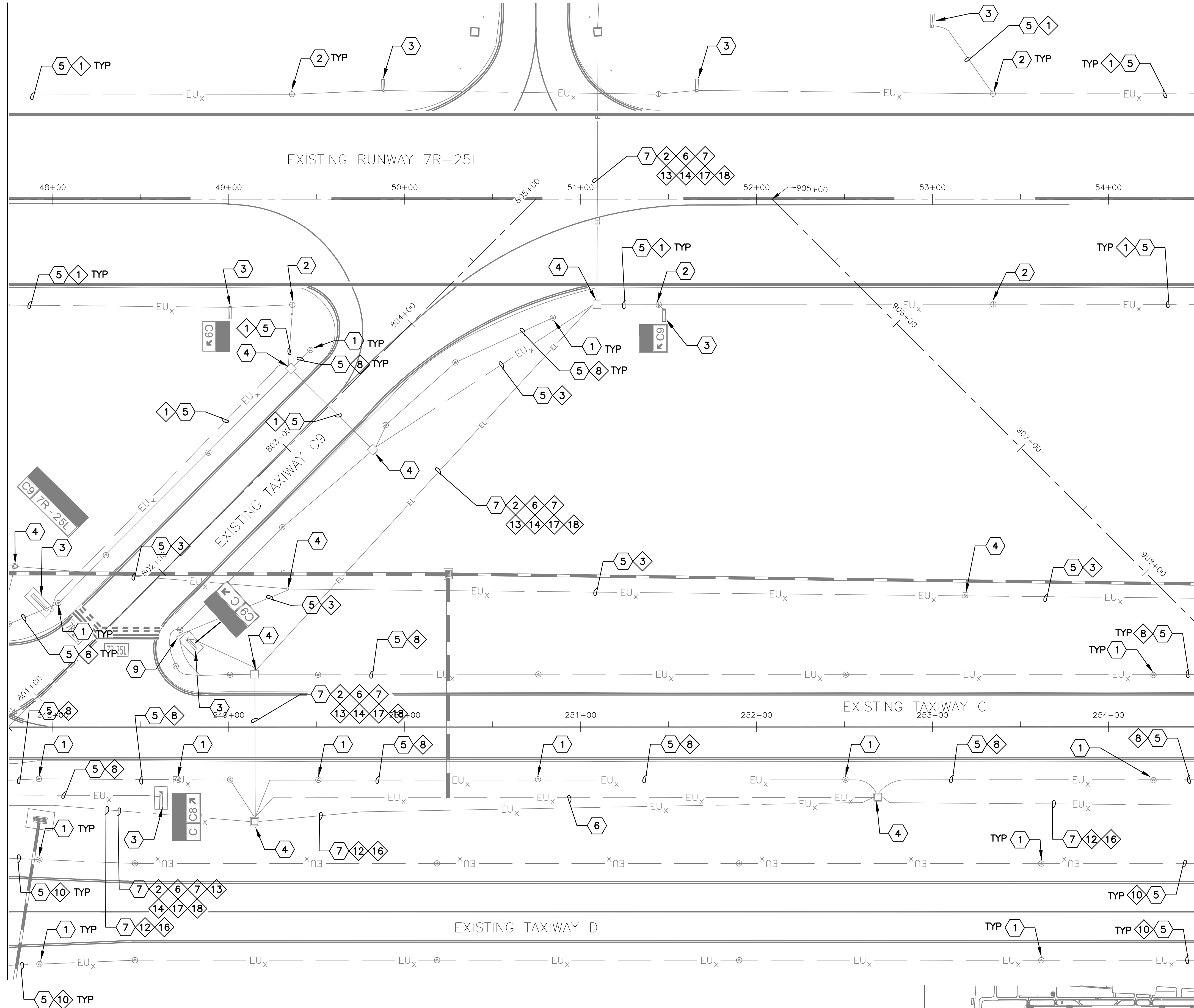


KEY MAP

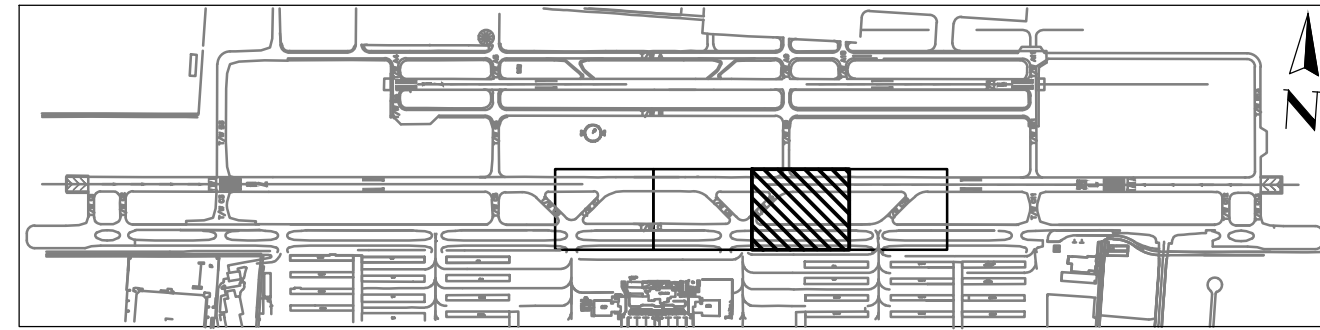


G:\PROJECTS\22000\22002 Evt Tr C Connectors C4-C10\CAD SHEETS\ 22002 ED-101 - ED-1XX - GMP1.dwg - Jun 26 2024 8:45am

MATCHLINE - SEE SHEET ED-102



MATCHLINE - SEE SHEET ED-104



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

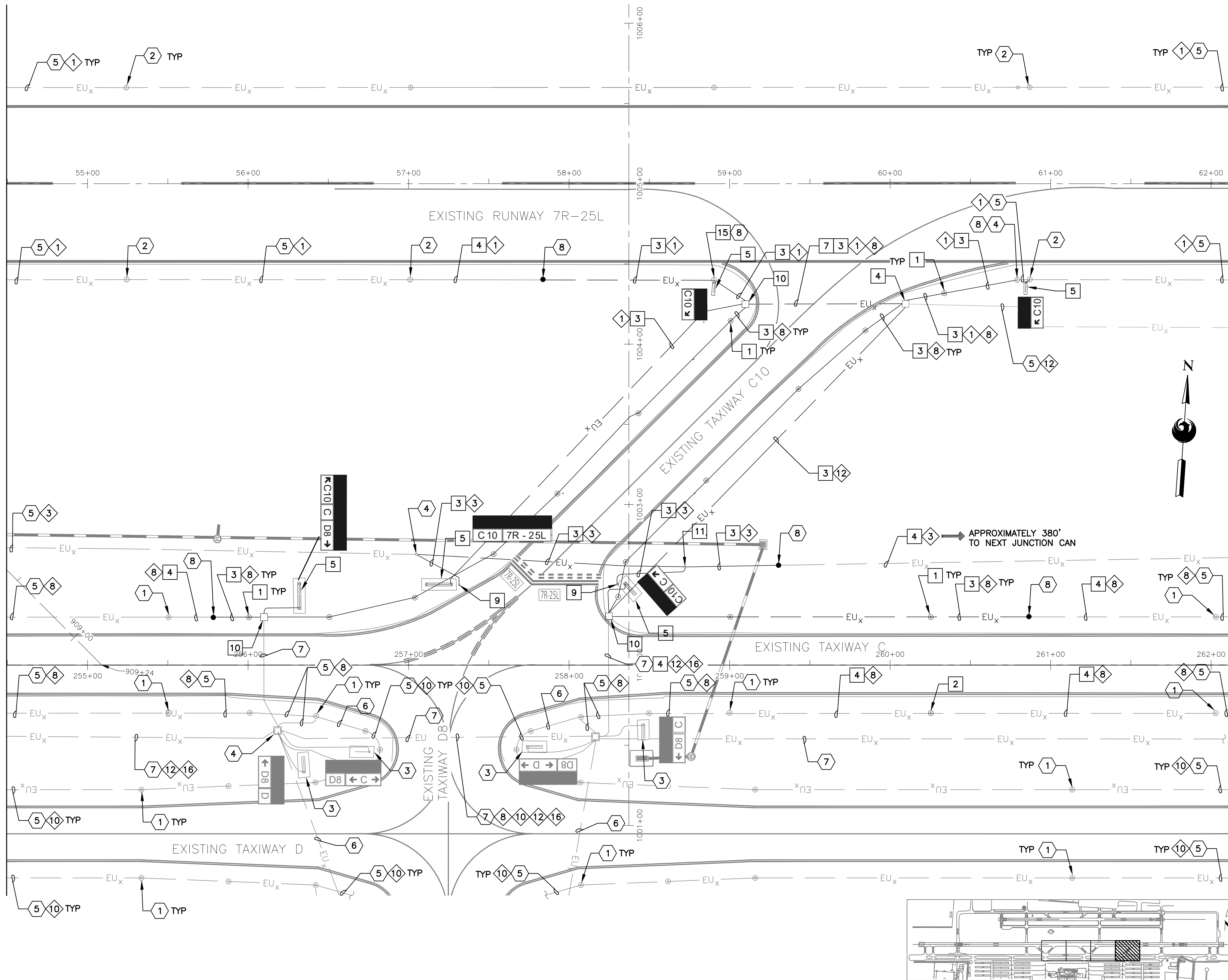
CIRCUIT IDENTIFICATION

SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA-001.

|                                                                                                                                                                                    |                                                                                                                                                                            |                                             |      |    |                         |                                                                                                                                                                                                                                  |                                                                                                                                                 |                                                                                            |                                                                    |                                          |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|----|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|----------------|
| PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.traceg.com | SUB CONSULTANT<br><b>CR engineers</b><br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.crng.com | 90%<br>SUBMITTAL<br>NOT FOR<br>CONSTRUCTION | DATE | NO | REVISIONS / SUBMISSIONS | PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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 | <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br><b>DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)</b><br>AV31000096 FAA/ADOT | Designed by: SW<br>Drawn by: JBW<br>Checked by: CA<br>Date: 01/2024<br>Dwg scale: 1" = 30' | SHEET OVERVIEW TITLE<br><b>AIRFIELD ELECTRICAL DEMOLITION PLAN</b> | SHEET REFERENCE NUMBER:<br><b>ED-103</b> | SHEET 39 OF 56 |
|                                                                                                                                                                                    |                                                                                                                                                                            |                                             |      |    |                         |                                                                                                                                                                                                                                  |                                                                                                                                                 |                                                                                            |                                                                    |                                          |                |



Q:\PROJECTS\22000\22002 DVT Txy C Connectors C4-C10\CAD\CAD SHEETS\ 22002 ED-101 - ED-1XX - GMP1.dwg - Jan 29,2024 11:23am



☐ DEMOLITION NOTES ☐

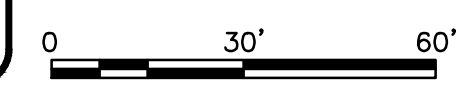
- 1 REMOVE AND SALVAGE EXISTING TAXIWAY  
EDGE LIGHT AND ISOLATION TRANSFORMER  
- REMOVE BASE CAN (15 TOTAL)
- 2 REMOVE AND SALVAGE EXISTING TAXIWAY  
EDGE LIGHT AND ISOLATION TRANSFORMER  
- BASE CAN TO REMAIN (1 TOTAL)
- 3 EXCAVATE AND REMOVE EXISTING CONDUIT  
AND CONDUCTOR (1,655 LF TOTAL)
- 4 REMOVE 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

- 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
- 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 ◇

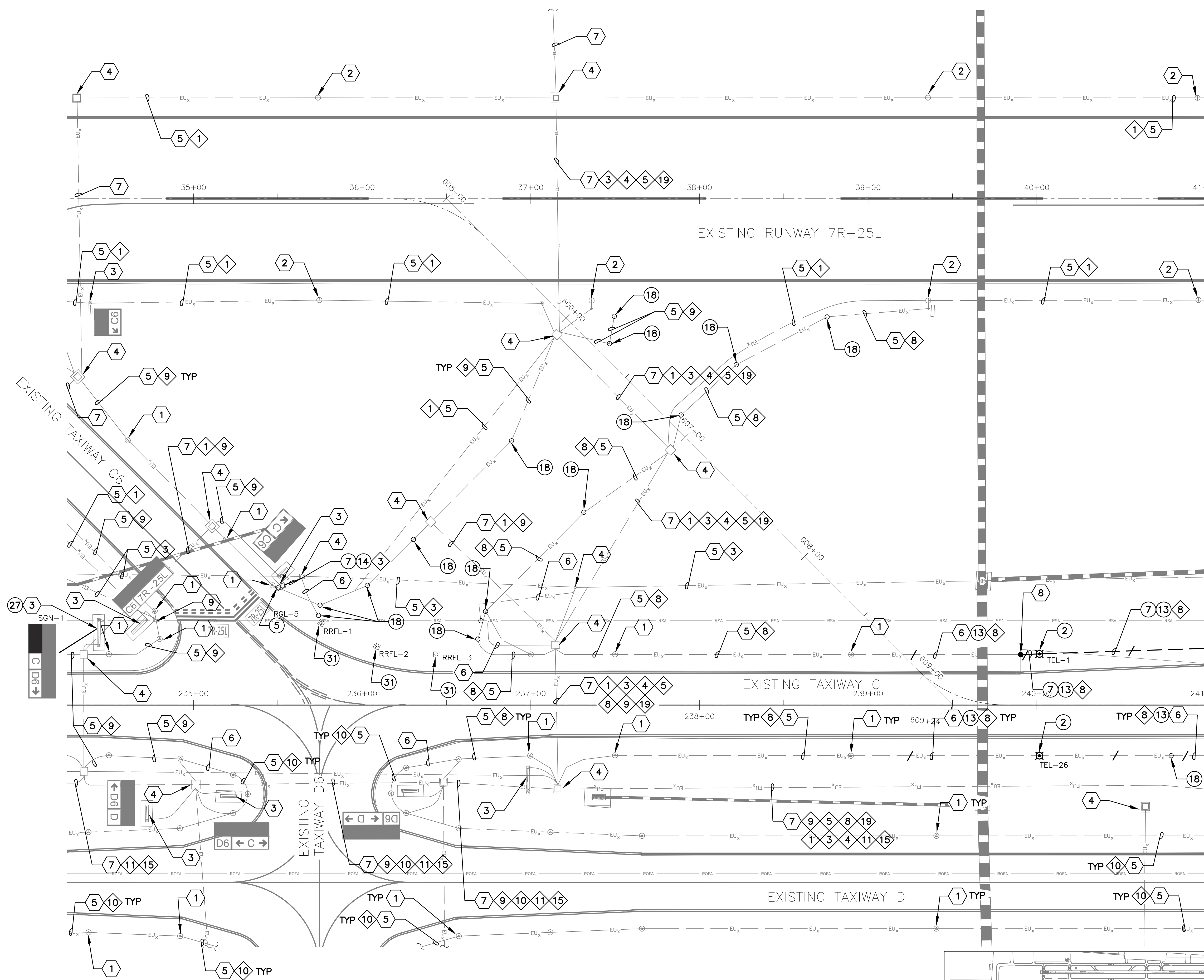
SEE CIRCUIT IDENTIFICATION NOTES ON  
SHEET EA-001.



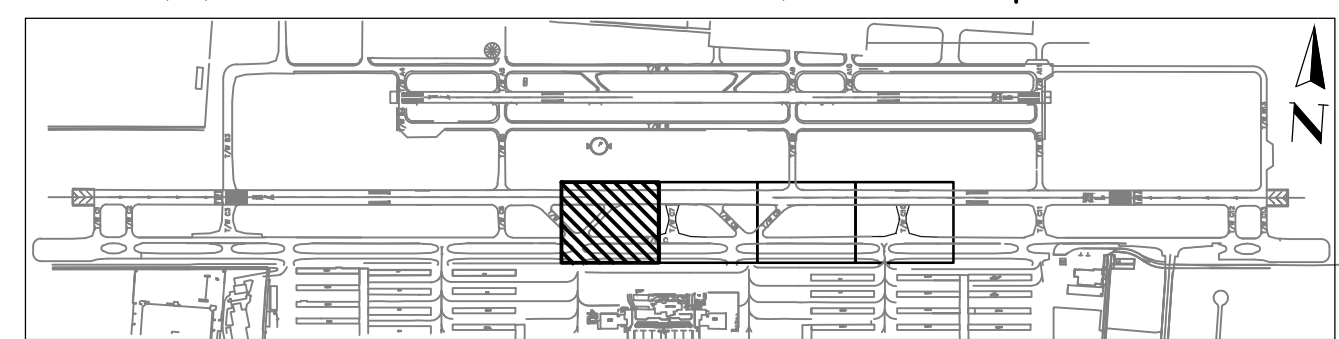
|                      |                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|----------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHEET OVERVIEW TITLE | Designed by: SW                                | AIRFIELD ELECTRICAL<br>DEMOLITION PLAN                                                                                                                                 | SHEET<br>REFERENCE<br>NUMBER:<br><br><b>ED-104</b>                                                                                                                                                                                              | SHEET 40 OF 56                                                                                                                                                                      |
|                      | Drawn by: JBW                                  |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      | Checked by: CA                                 |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      | Date: 01/2024                                  |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      | Dwg scale: 1" = 30'                            |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      | ADOT GRANT NUMBER(S):<br>E2S4V 01C & E3S3K 01C |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      |                                                | <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br><br><b>DVT TAXIWAY C<br/>CONNECTORS C4-C10<br/>(GMP 1 - C7 AND C10)</b><br><br><b>AV31000096 FAA/ADOT</b> | "PER CITY OF PHOENIX CITY CODE CHAPTER 2,<br>SECTION 2-28, THESE PLANS ARE FOR OFFICIAL<br>USE ONLY AND MAY NOT BE SHARED WITH<br>OTHERS EXCEPT AS REQUIRED TO FULFILL THE<br>OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH<br>THE CITY OF PHOENIX" | PRIME CONSULTANT                                                                                                                                                                    |
|                      |                                                |                                                                                                                                                                        | 90% SUBMITTAL                                                                                                                                                                                                                                   | SUB CONSULTANT<br><br><b>CR engineers</b><br><br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5510<br>www.creng.com |
|                      |                                                |                                                                                                                                                                        | PRELIMINARY NOT FOR CONSTRUCTION                                                                                                                                                                                                                |                                                                                                                                                                                     |
|                      |                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      |                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      |                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|                      |                                                |                                                                                                                                                                        | NO REVISIONS / SUBMISSIONS                                                                                                                                                                                                                      | DATE                                                                                                                                                                                |



G:\PROJECTS\22000\22002 DVT Trx C Connectors C4-C10\CAD\CAD SHEETS\ 22002 EA-101 - FA-TXX - GMP1.dwg - Jan. 29/2024 8:55am



MATCHLINE - SEE SHEET EA-102



KEY MAP

- 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)
  - ⑳ INSTALL NEW SIZE 1 SIGN PANELS IN EXISTING AIRFIELD GUIDANCE SIGN. (2 TOTAL)
  - ㉑ 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 ◇

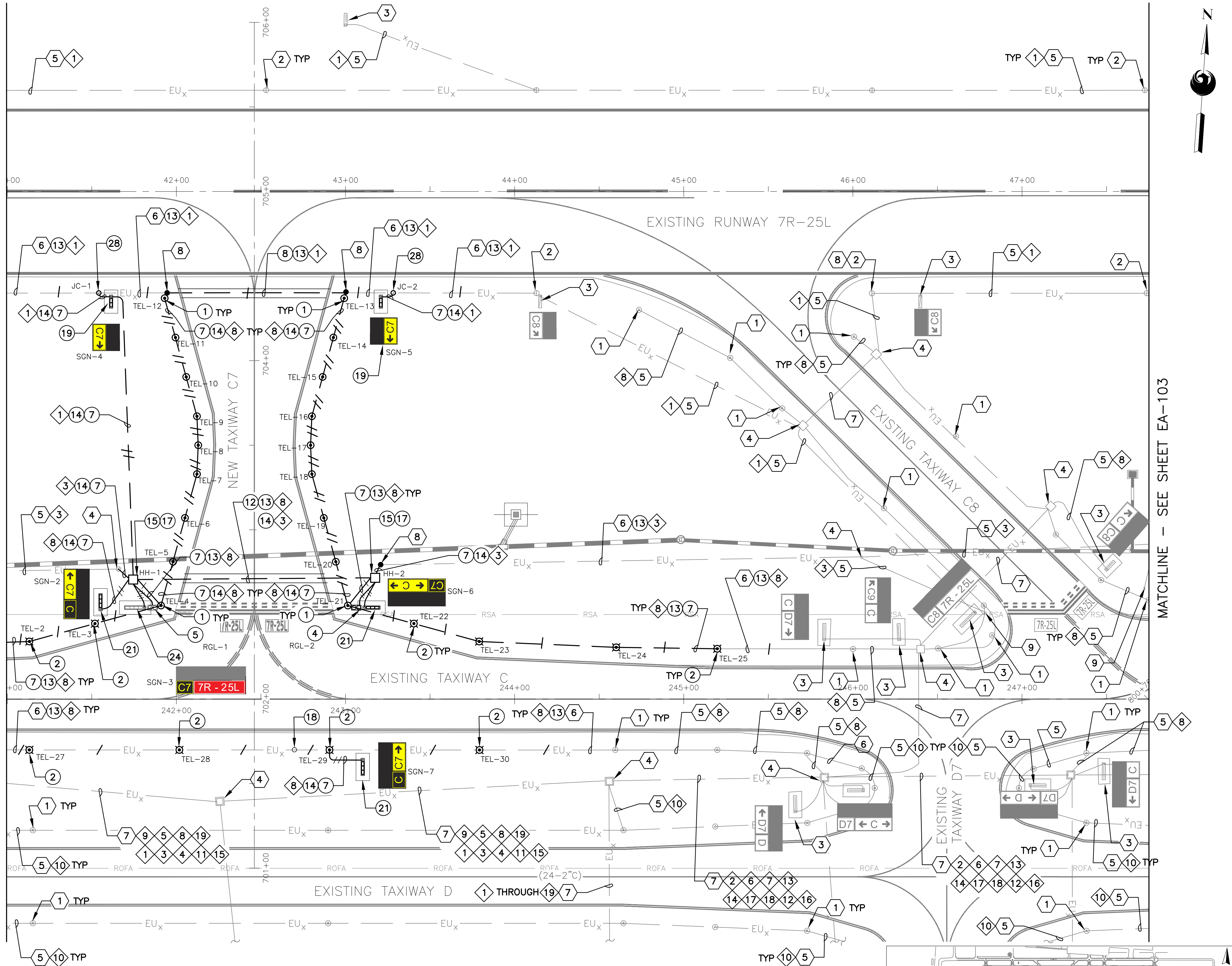
SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA-001.

|                                                                                                                                                                                                                                    |                                                                                                                                                                             |                                                                                                                                                 |  |      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|------|--|
| PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>1071 E. Jefferson St. Suite 11 Phoenix, AZ 85034                                                                                                                                    | SUB CONSULTANT<br><b>CR engineers</b><br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.creng.com | SUBMITTAL<br>90%<br>PRELIMINARY<br>NOT FOR<br>CONSTRUCTION                                                                                      |  | DATE |  |
|                                                                                                                                                                                                                                    |                                                                                                                                                                             | REVISIONS / SUBMISSIONS                                                                                                                         |  | NO   |  |
| *PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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* |                                                                                                                                                                             | <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br><b>DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)</b><br>AV31000096 FAA/ADOT |  |      |  |
| Designed by: SW<br>Drawn by: JBW<br>Checked by: CA<br>Date: 01/2024<br>Dwg scale: 1" = 30'                                                                                                                                         |                                                                                                                                                                             | SHEET OVERVIEW TITLE<br><b>AIRFIELD LIGHTING AND ELECTRICAL PLAN</b>                                                                            |  |      |  |
| Contact Arizona 811 at least two full working days before you begin excavation<br><b>ARIZONA 811</b><br>Call 811 or click Arizona811.com                                                                                           |                                                                                                                                                                             | SHEET REFERENCE NUMBER:<br><b>EA-101</b><br>SHEET 41 OF 56                                                                                      |  |      |  |

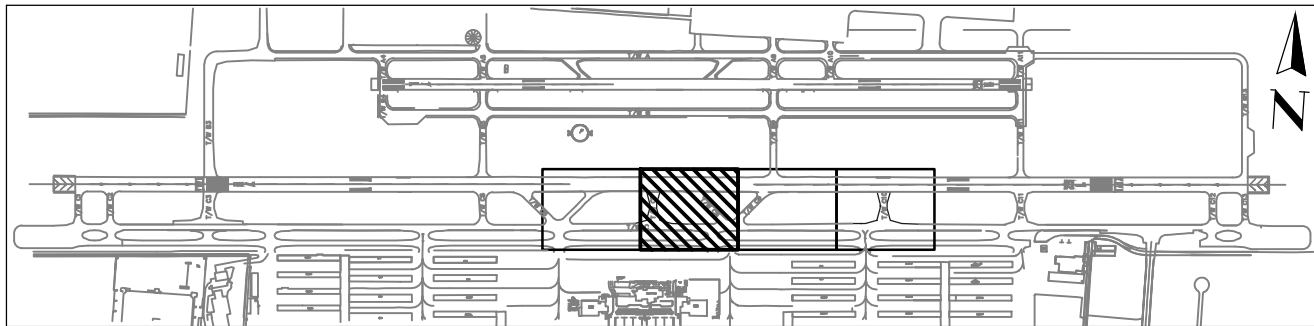


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MATCHLINE - SEE SHEET EA-101



MATCHLINE - SEE SHEET EA-103



KEY MAP

CONSTRUCTION NOTES

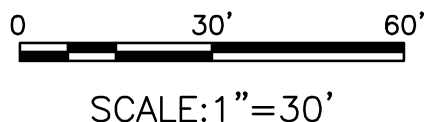
- 1 INSTALL NEW ELEVATED LED L-861T(L) TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN. (18 TOTAL)
- 2 INSTALL NEW ELEVATED INCANDESCENT (QUARTZ) L-861T TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN. (10 TOTAL)
- 4 INSTALL NEW ELEVATED L-804(L) LED RUNWAY GUARD 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)
- 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.



|                                                                                                                                                                                                                                    |               |                                                                                                                                                                             |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| PRIME CONSULTANT<br><b>TRACE CONSULTING</b><br>1071 E. Jefferson St., Suite 110 Phoenix, AZ 85035                                                                                                                                  |               | SUB CONSULTANT<br><b>CR engineers</b><br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.creng.com |               |
| SUBMITTAL NO. FOR CONSTRUCTION                                                                                                                                                                                                     |               | DATE                                                                                                                                                                        |               |
| 90%                                                                                                                                                                                                                                |               | NO REVISIONS / SUBMISSIONS                                                                                                                                                  |               |
| *PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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* |               |                                                                                                                                                                             |               |
| <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br><b>DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)</b><br>AV31000096 FAA/ADOT                                                                                    |               |                                                                                                                                                                             |               |
| Designed by: SW                                                                                                                                                                                                                    | Drawn by: JBW | Checked by: CA                                                                                                                                                              | Date: 01/2024 |
| Dwg scale: 1" = 30'                                                                                                                                                                                                                |               |                                                                                                                                                                             |               |
| ADOT GRANT NUMBER(S): E254V 01C & E353K 01C                                                                                                                                                                                        |               |                                                                                                                                                                             |               |
| SHEET OVERVIEW TITLE<br><b>AIRFIELD LIGHTING AND ELECTRICAL PLAN</b>                                                                                                                                                               |               |                                                                                                                                                                             |               |
| SHEET REFERENCE NUMBER:<br><b>EA-102</b>                                                                                                                                                                                           |               |                                                                                                                                                                             |               |
| SHEET 42 OF 56                                                                                                                                                                                                                     |               |                                                                                                                                                                             |               |

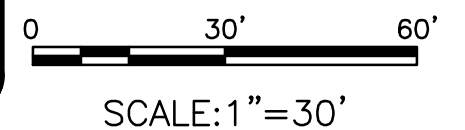




Contact Arizona 811 at least two full working days before you begin excavation

**ARIZONA811**

Call 811 or click [Arizona811.com](http://Arizona811.com)



SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA-001.

SHEET  
REFERENCE  
NUMBER:  
**EA-103**

SHEET 43 OF 56

**CR engineers**

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85208  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
[www.creng.com](http://www.creng.com)

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

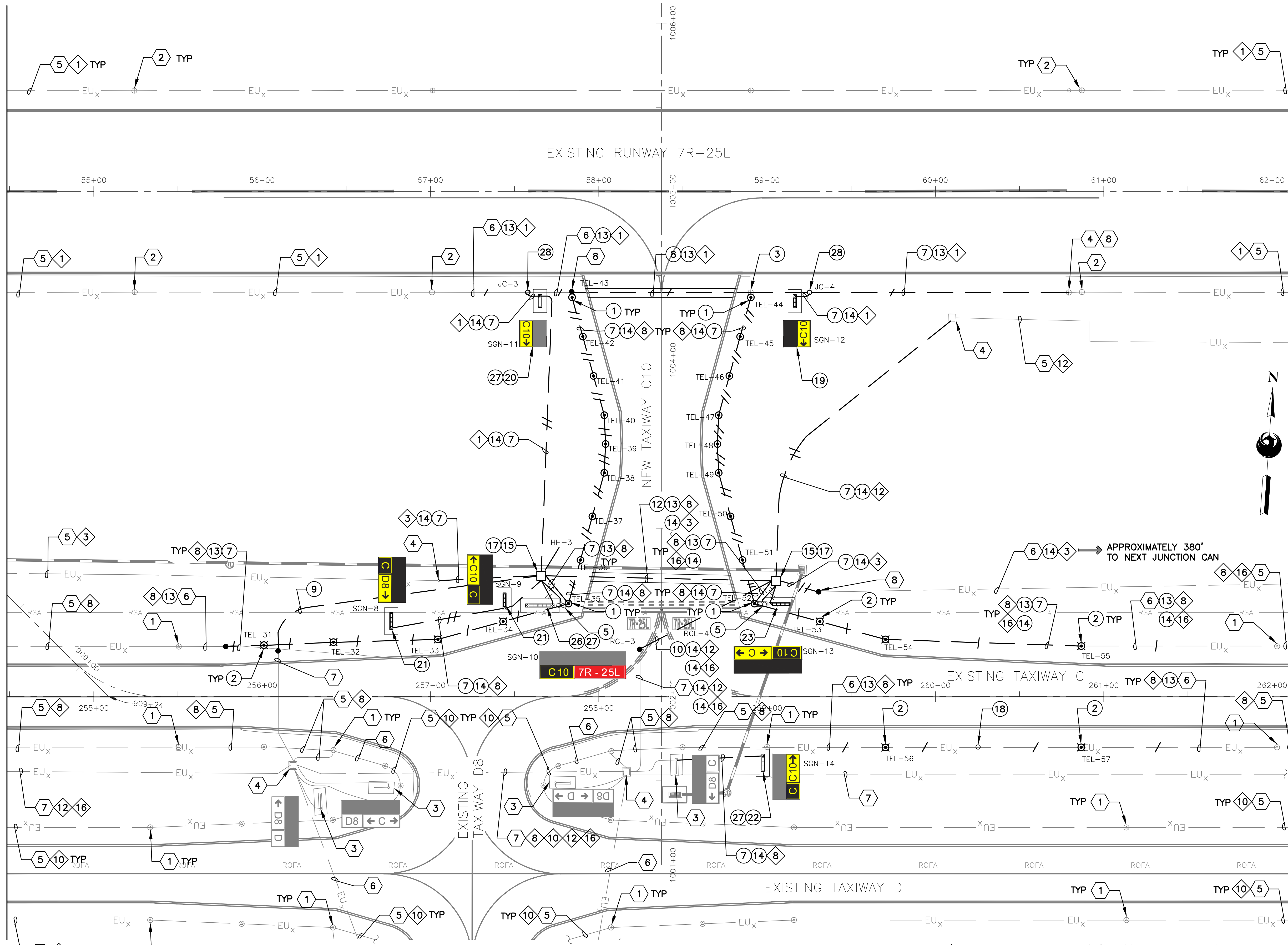
**AV31000096 FAA/ADOT**

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



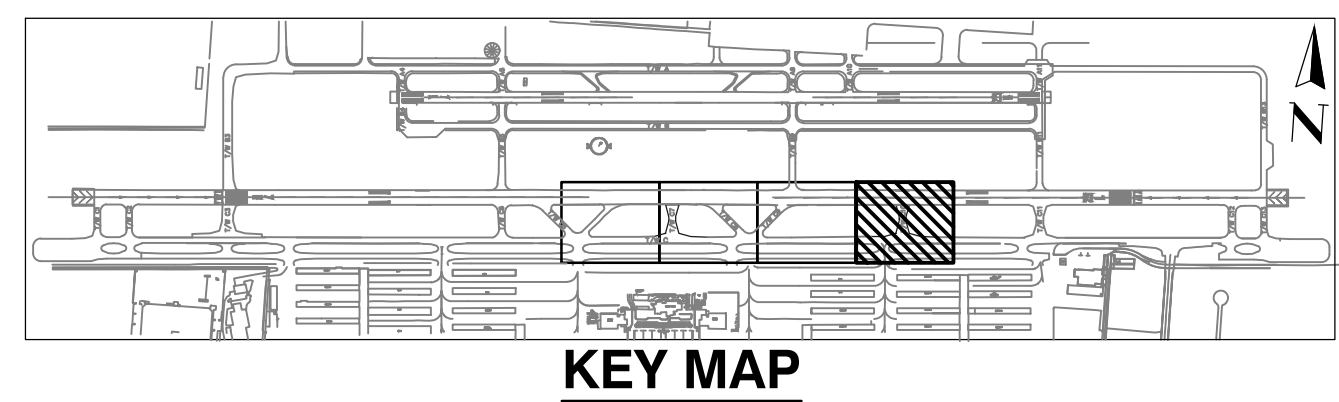
PROJECTS\22000\22002 DVT Trx C Connectors C4-C10\CAD SHEETS\ 22002 EA-101 - EA-TXX - GMP1.dwg - Jan. 29/2024 2:03pm

MATCHLINE - SEE SHEET EA-103

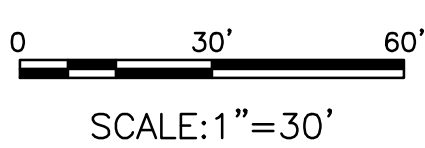


- REFERENCE NOTES
- 1 EXISTING TAXIWAY EDGE LIGHT
  - 2 EXISTING RUNWAY EDGE LIGHT
  - 3 EXISTING AIRFIELD GUIDANCE SIGN
  - 4 EXISTING HANDHOLE OR JUNCTION CAN
  - 5 EXISTING CONDUIT AND CONDUCTOR
  - 6 EXISTING CONDUIT
  - 7 EXISTING DUCTBANK
  - 8 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

- CIRCUIT IDENTIFICATION
- SEE CIRCUIT IDENTIFICATION NOTES ON SHEET EA-001.



- 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. (8 TOTAL)
  - 28 NEW L-867B (12" DIA.) JUNCTION CAN (2 TOTAL)



PRIME CONSULTANT

**TRACE**

CONSULTING

1071 E. Jefferson St., Suite 11 Phoenix, AZ 85035

SUB CONSULTANT

**CR**

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Fountain Hills, AZ 85268  
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Fax: (480) 816-5540  
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90%

SUBMITTAL

PRELIMINARY

FOR

CONSTRUCTION

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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 FAA/ADOT

Designed by: SW

Drawn by: JBW

Checked by: CA

Date: 01/2024

Dwg scale: 1" = 30'

SHEET OVERVIEW TITLE

**AIRFIELD LIGHTING AND ELECTRICAL PLAN**

SHEET REFERENCE NUMBER:

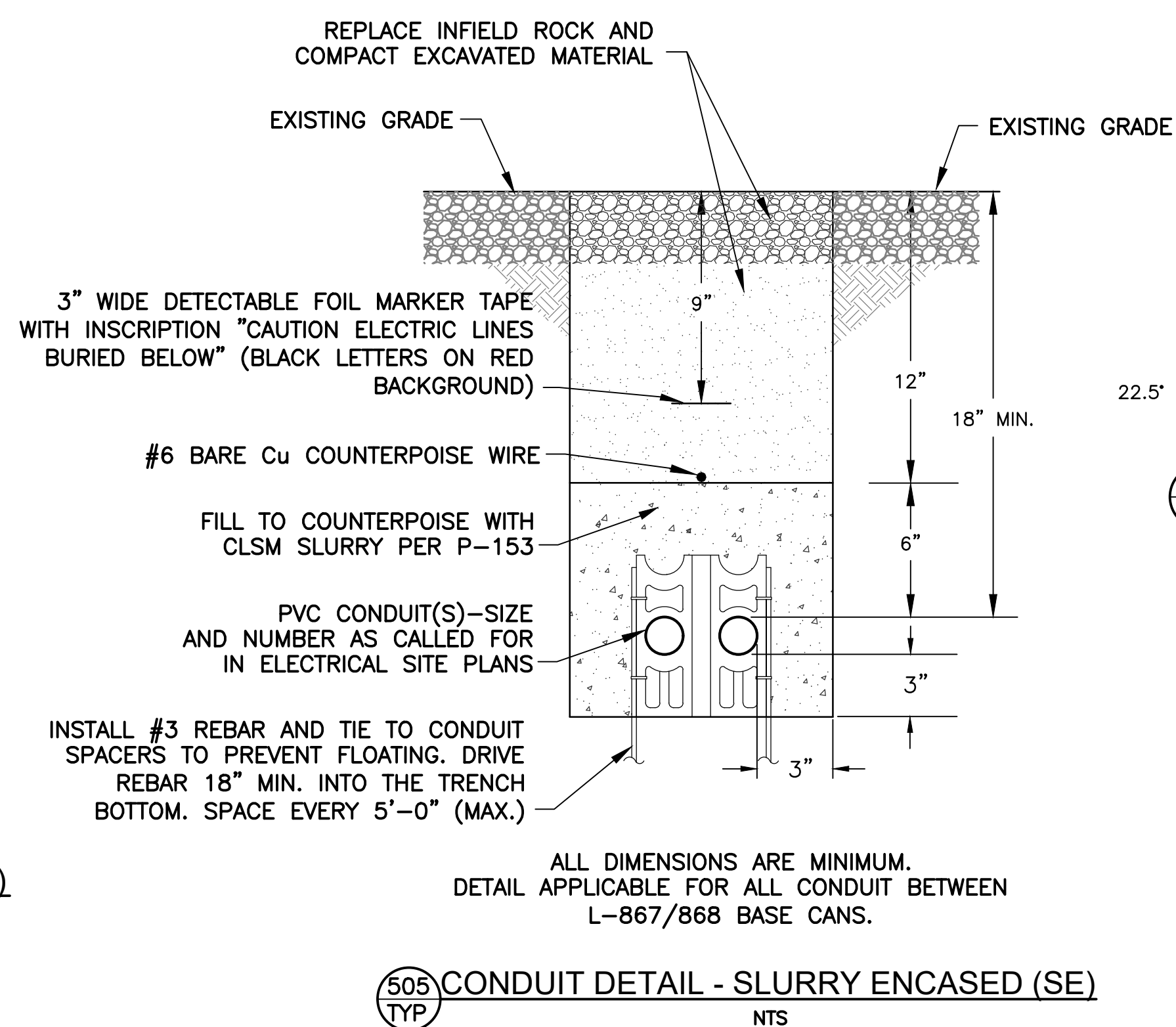
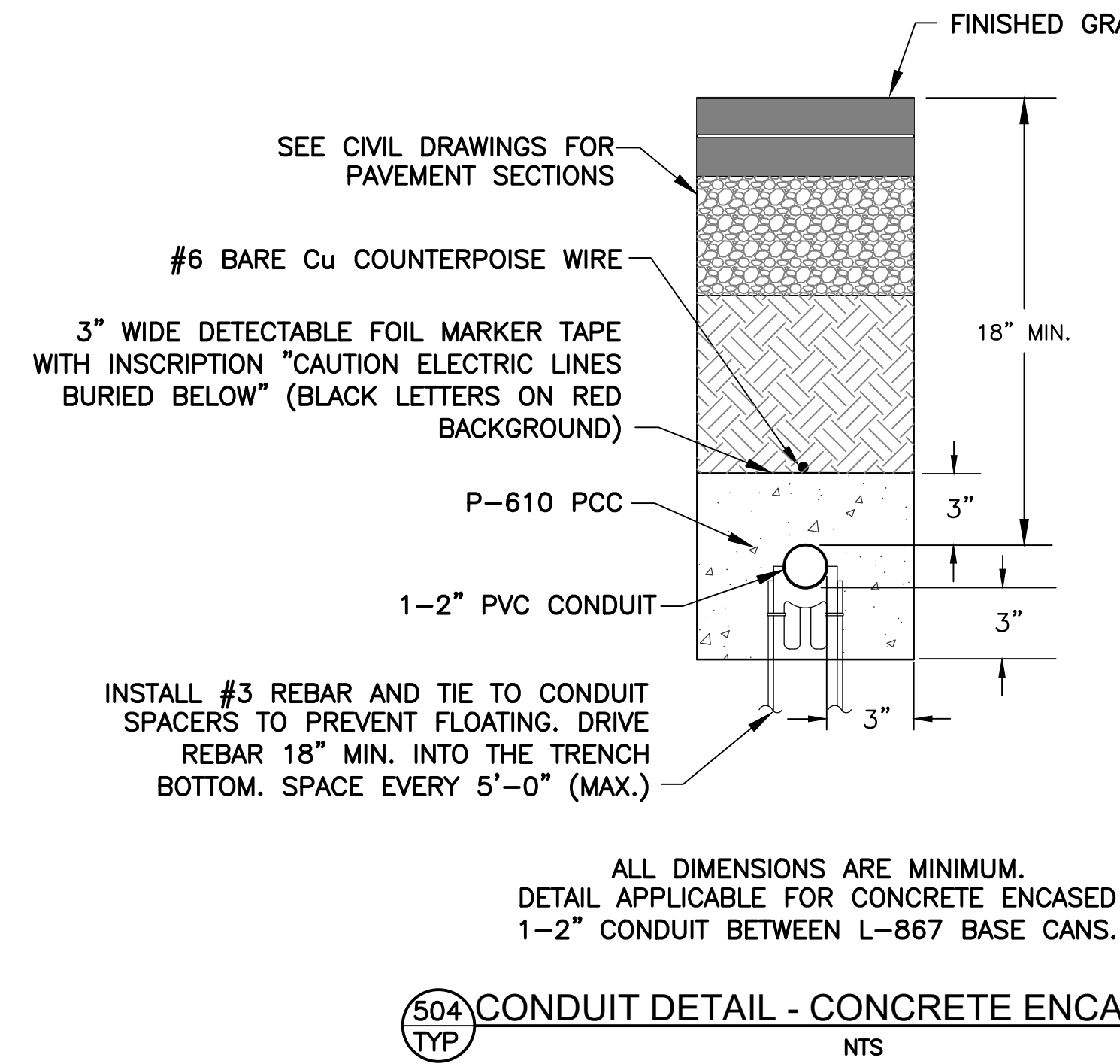
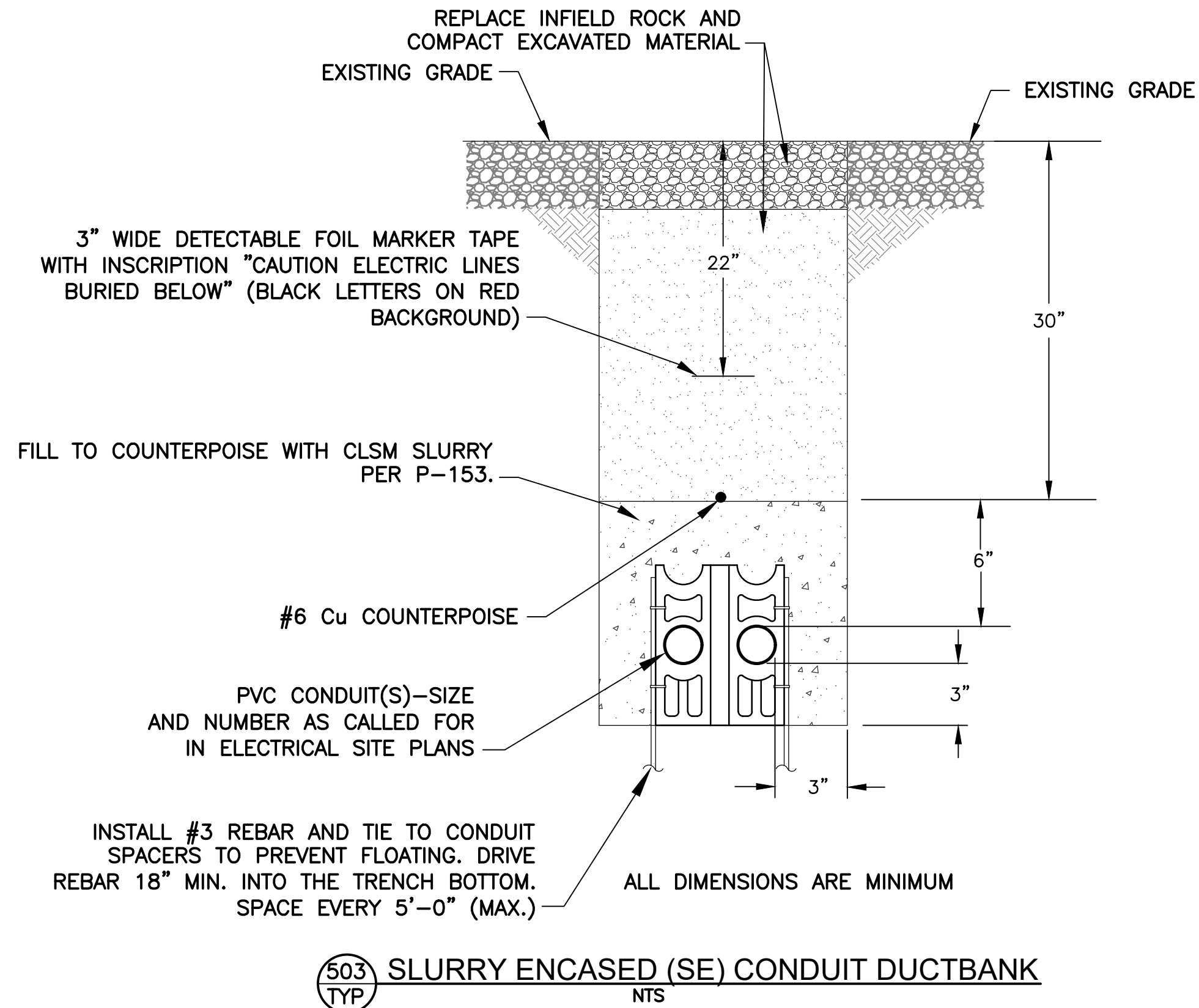
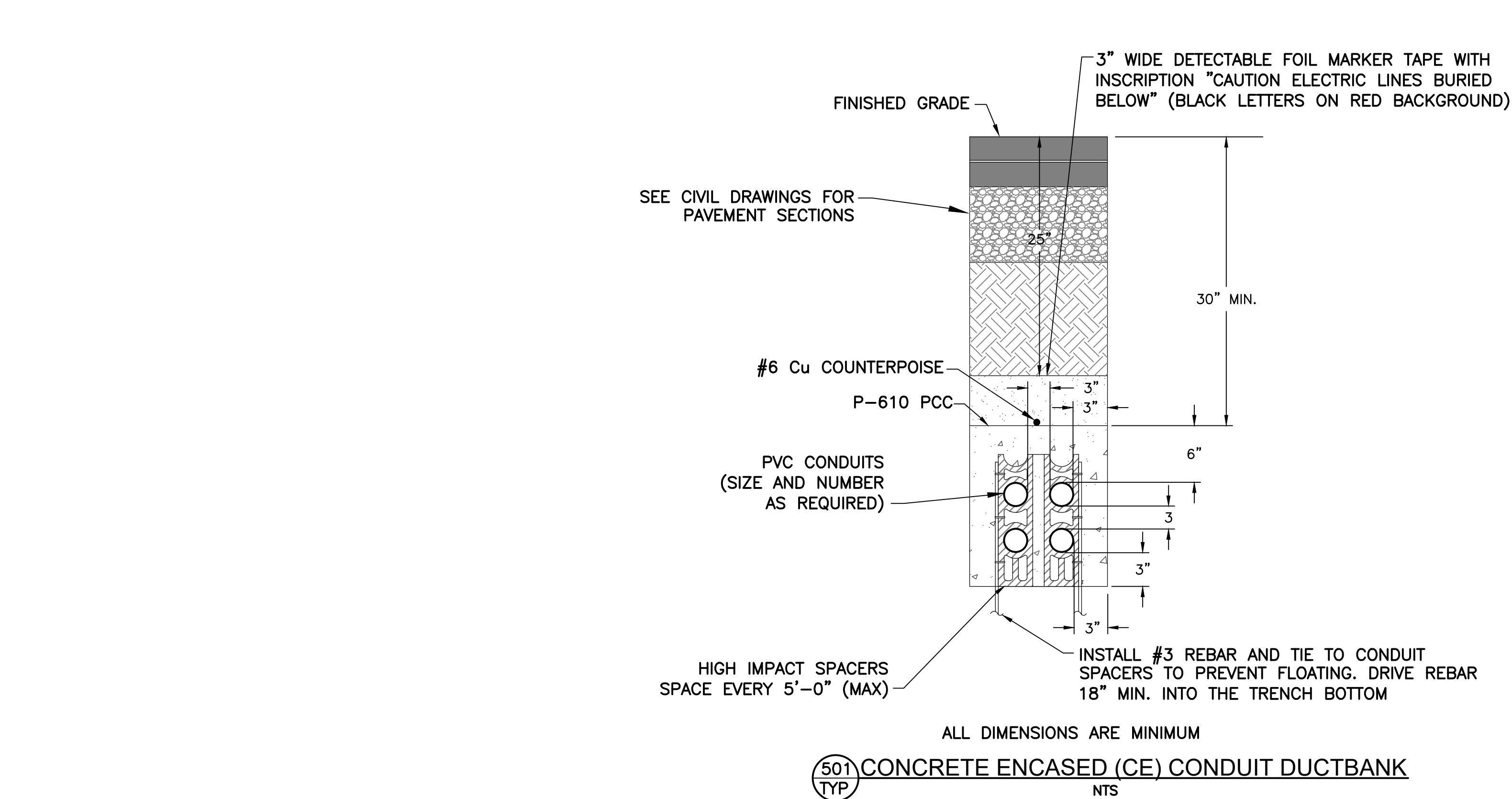
**EA-104**

SHEET 44 OF 56

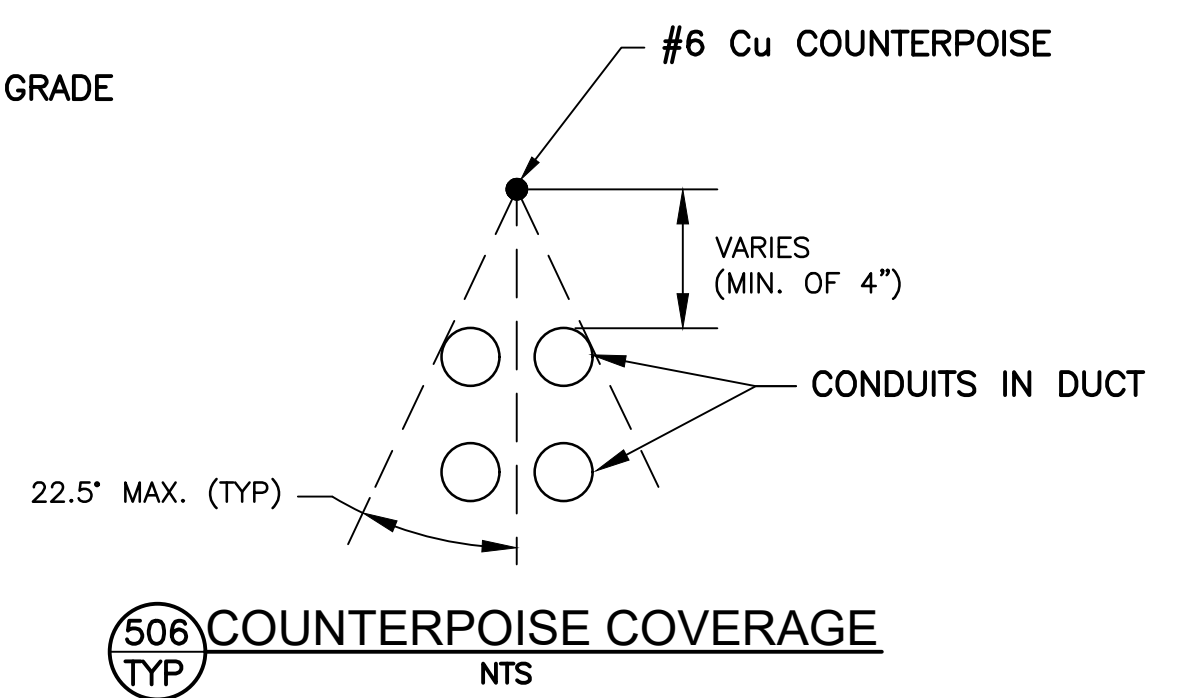
ADOT GRANT NUMBER(S): E254V 01C & E353K 01C



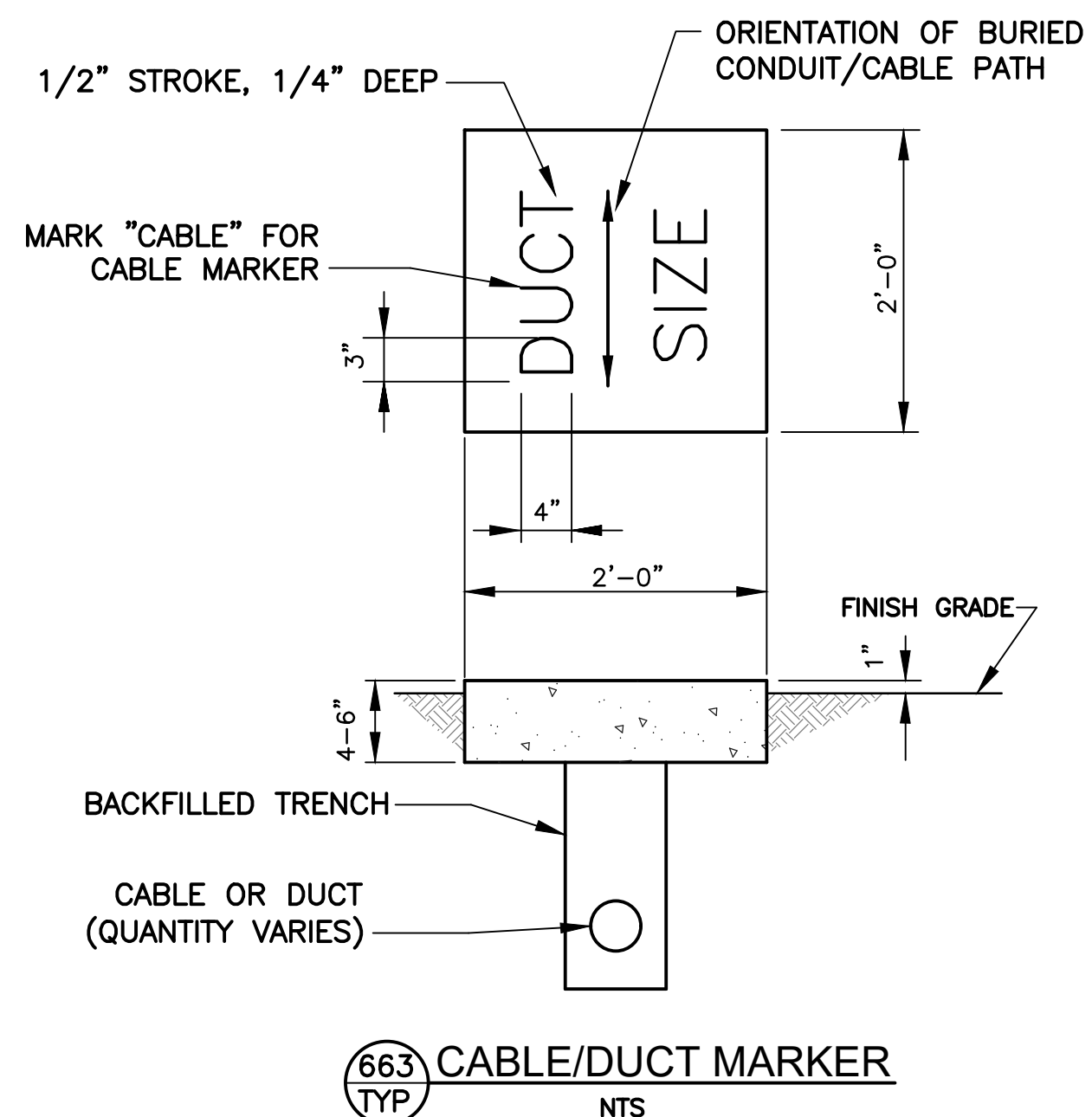
Q:\PROJECTS\22000\22002 DVT Trx C Connectors C4-C10\CAD\CAD SHEETS\ 22002 EA-501-CONDUIT DUCTBANKS AND DUCT MARKER.dwg - Jan 26,2024 8:35am



SEE CONDUIT INSTALLATION  
NOTES ON SHEET EA-002



**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.



**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.

**TRACE**  
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1071 E. Jefferson St. Suite 31 Phoenix, AZ 85034

**CR**  
engineers  
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Phone: (480) 816-5541  
Fax: (480) 816-5540  
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CONSTRUCTION

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NO

REVISIONS / SUBMISSIONS

DATE

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

Designed by: SW

Drawn by: JBW

Checked by: CA

Date: 01/2024

Dwg scale: NTS

ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

**ELECTRICAL DETAILS -  
CONDUIT DUCTBANKS AND  
DUCT MARKER**

SHEET  
REFERENCE  
NUMBER:  
**EA-501**

SHEET 45 OF 56





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.

[illegible]

"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"

90%  
SUBMITTAL  
PRELIMINARY  
NOT FOR  
CONSTRUCTION

PRIME CONSULTANT

SUB CONSULTANT



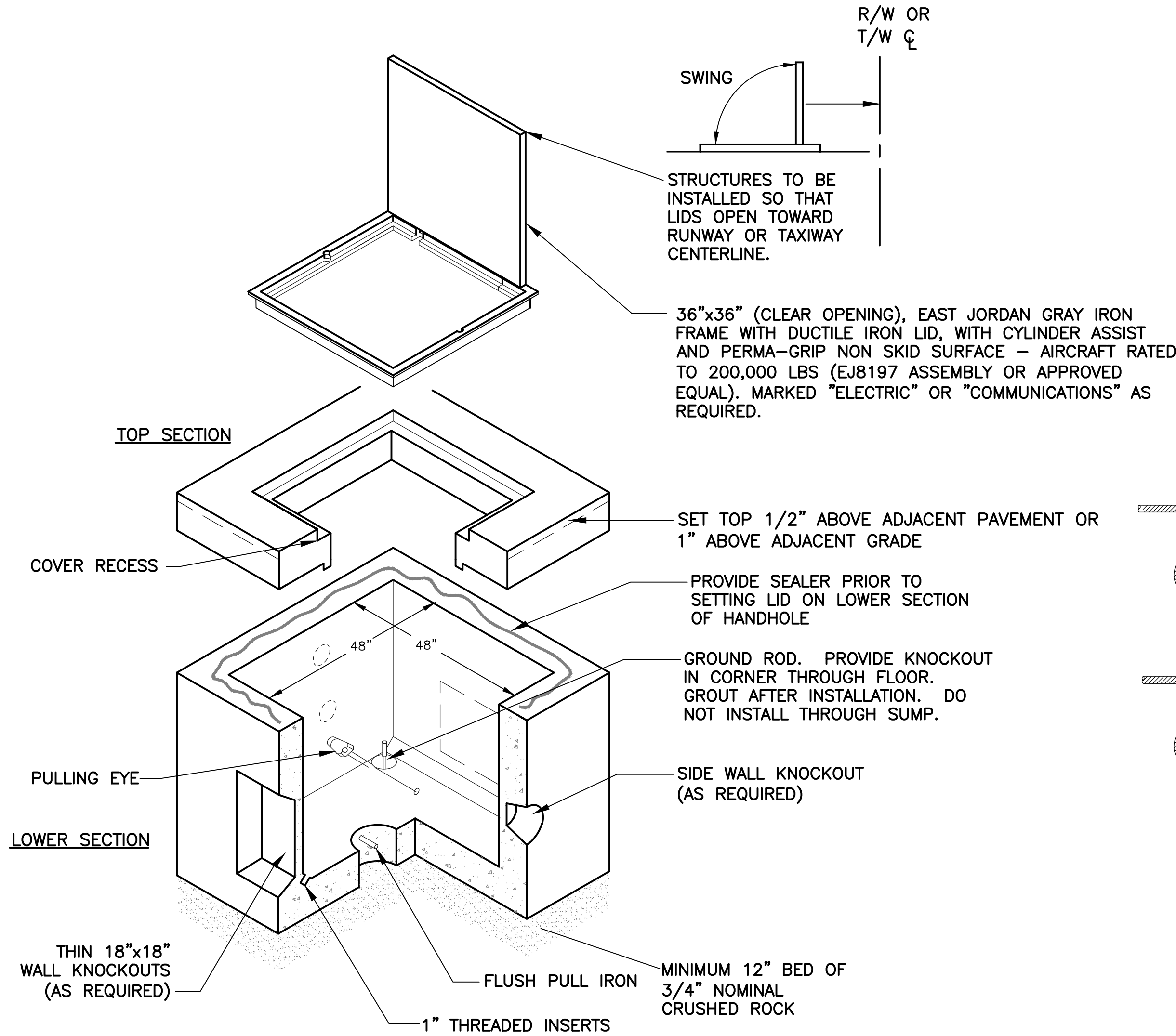
**TRACE**  
CONSULTING

1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
[www.crcng.com](http://www.crcng.com)

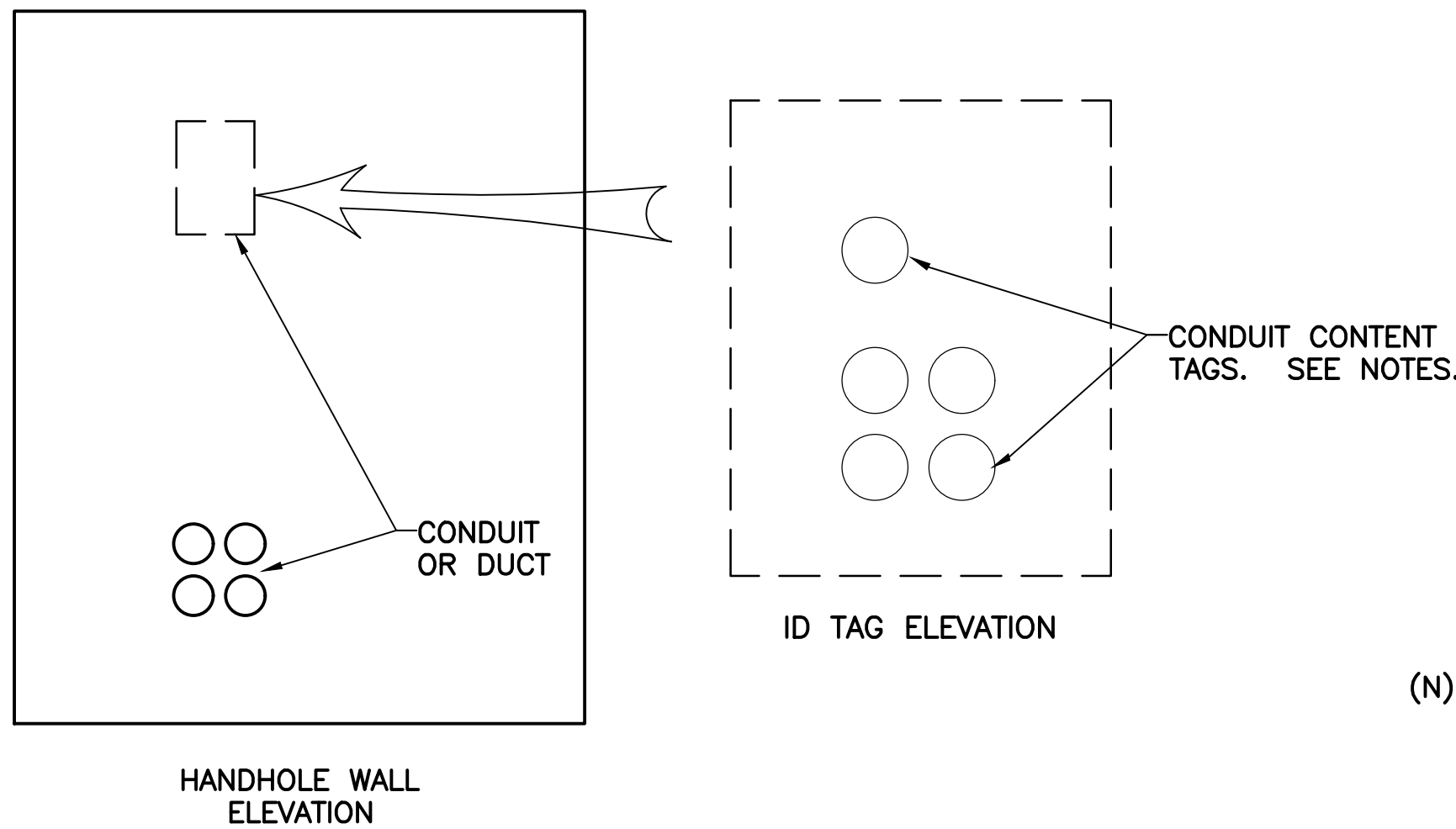


G:\PROJECTS\22000\22002 DVT Tr. C Connectors C4-C10\CAD\CAD SHEETS\ 22002 EA-503-4'x4'x4' HANDHOLE.dwg - Jan. 26/2024 8:57am



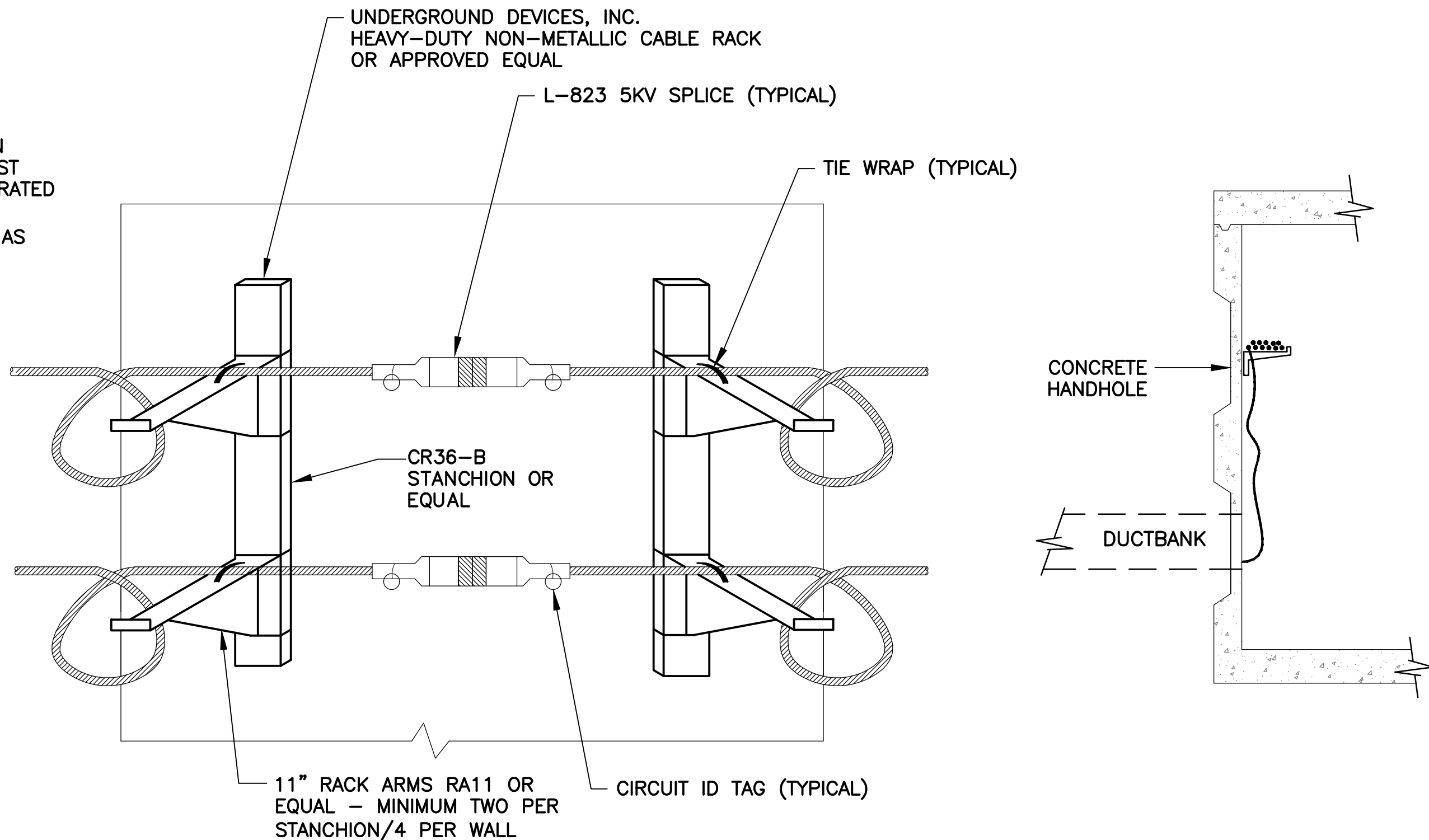
#### HANDHOLE NOTES:

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.

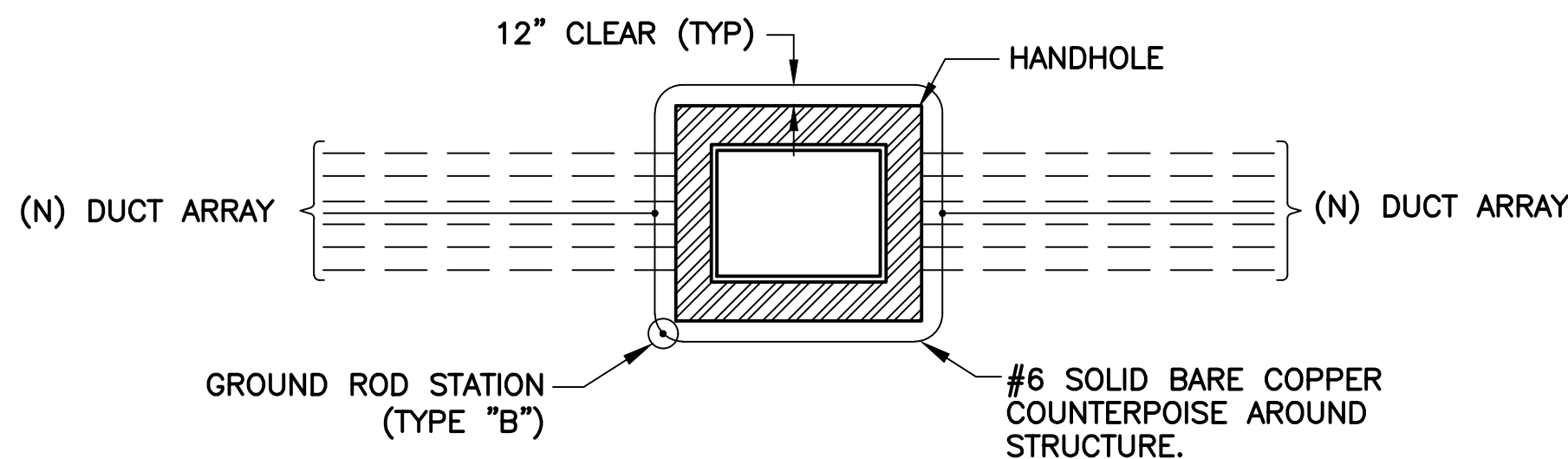


#### PLAQUE NOTES:

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.



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.



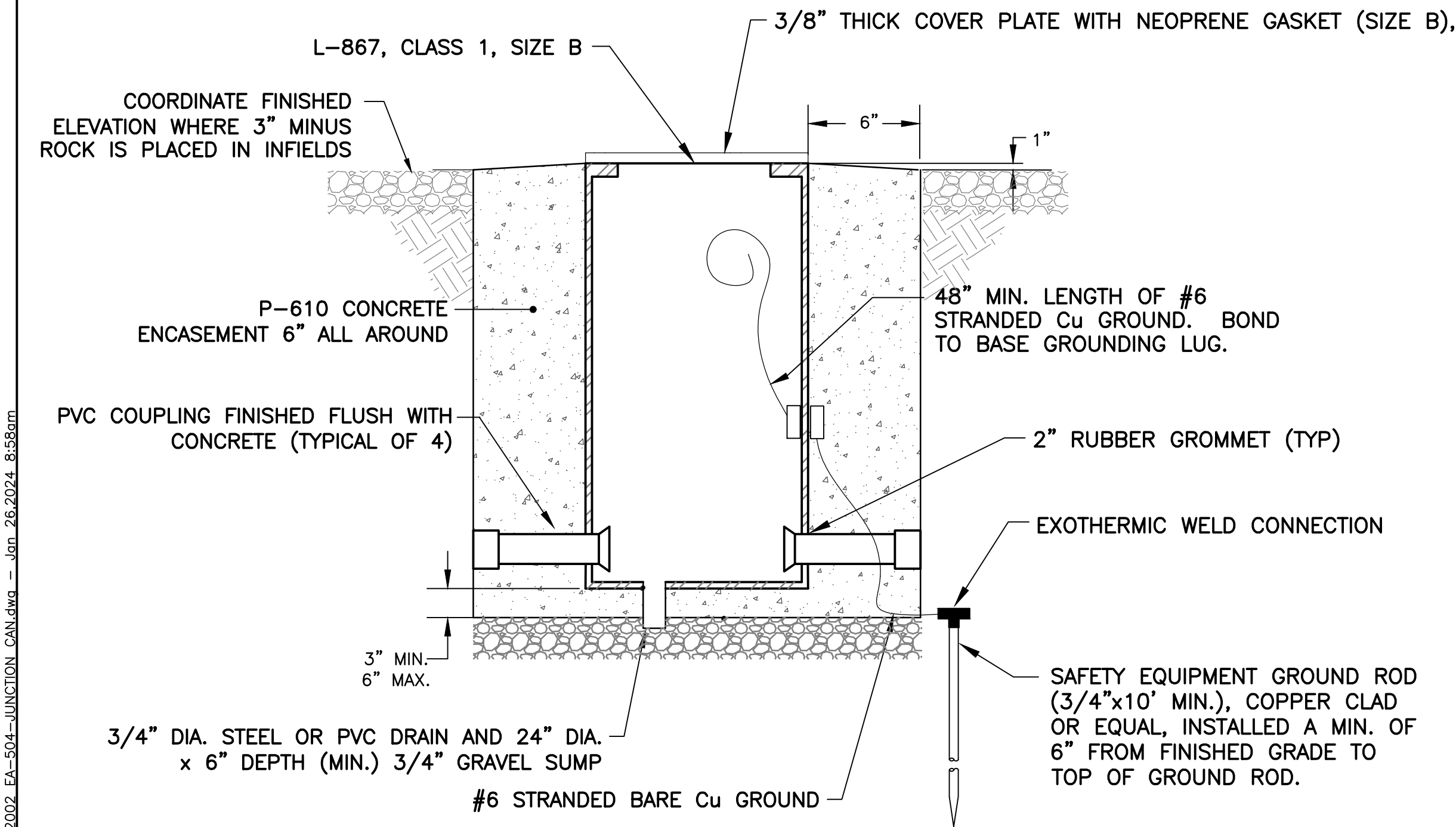
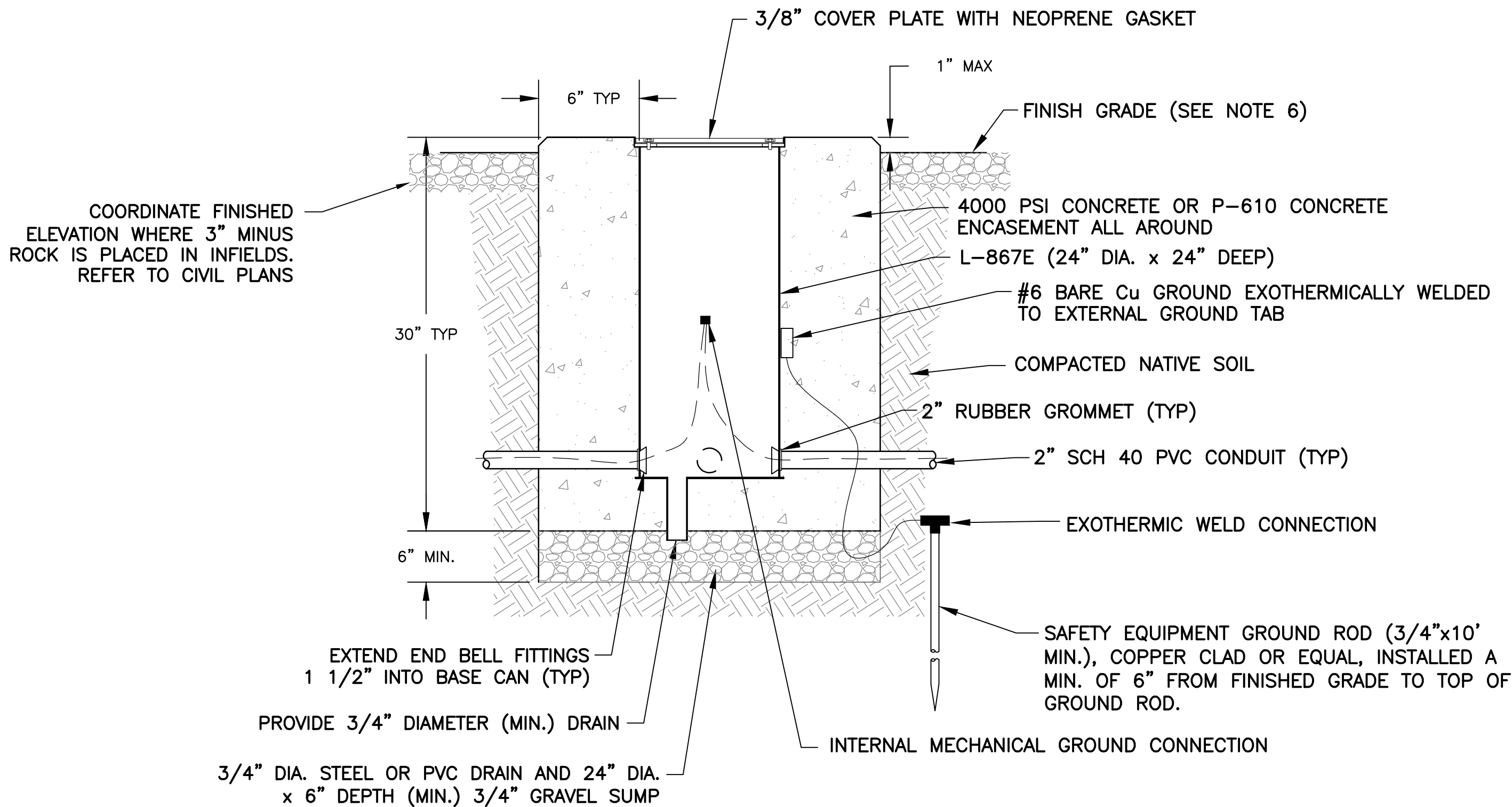
#### NOTES:

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

|                                                                                                   |                                                                                                                                                                               |                                                            |                                                                                                                                                                                                                                   |      |    |                         |                 |               |                |               |                |                                             |                                                                           |                                                |                |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-------------------------|-----------------|---------------|----------------|---------------|----------------|---------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|----------------|
| PRIME CONSULTANT<br><b>TRACE</b><br>CONSULTING<br>1071 E. Jefferson St. Suite 3 Phoenix, AZ 85034 | SUB CONSULTANT<br><b>CR</b><br>engineers<br>16719 East Palisades Blvd. Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.creng.com | 90%<br>SUBMITTAL<br>PRELIMINARY<br>NOT FOR<br>CONSTRUCTION | PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, 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. | DATE | NO | REVISIONS / SUBMISSIONS | DESIGNED BY: SW | DRAWN BY: JBW | CHECKED BY: CA | DATE: 01/2024 | DWG SCALE: NTS | ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C | SHEET OVERVIEW TITLE<br><b>ELECTRICAL DETAILS -<br/>4'x4'x4' HANDHOLE</b> | SHEET<br>REFERENCE<br>NUMBER:<br><b>EA-503</b> | SHEET 47 OF 56 |
|                                                                                                   |                                                                                                                                                                               |                                                            |                                                                                                                                                                                                                                   |      |    |                         |                 |               |                |               |                |                                             |                                                                           |                                                |                |



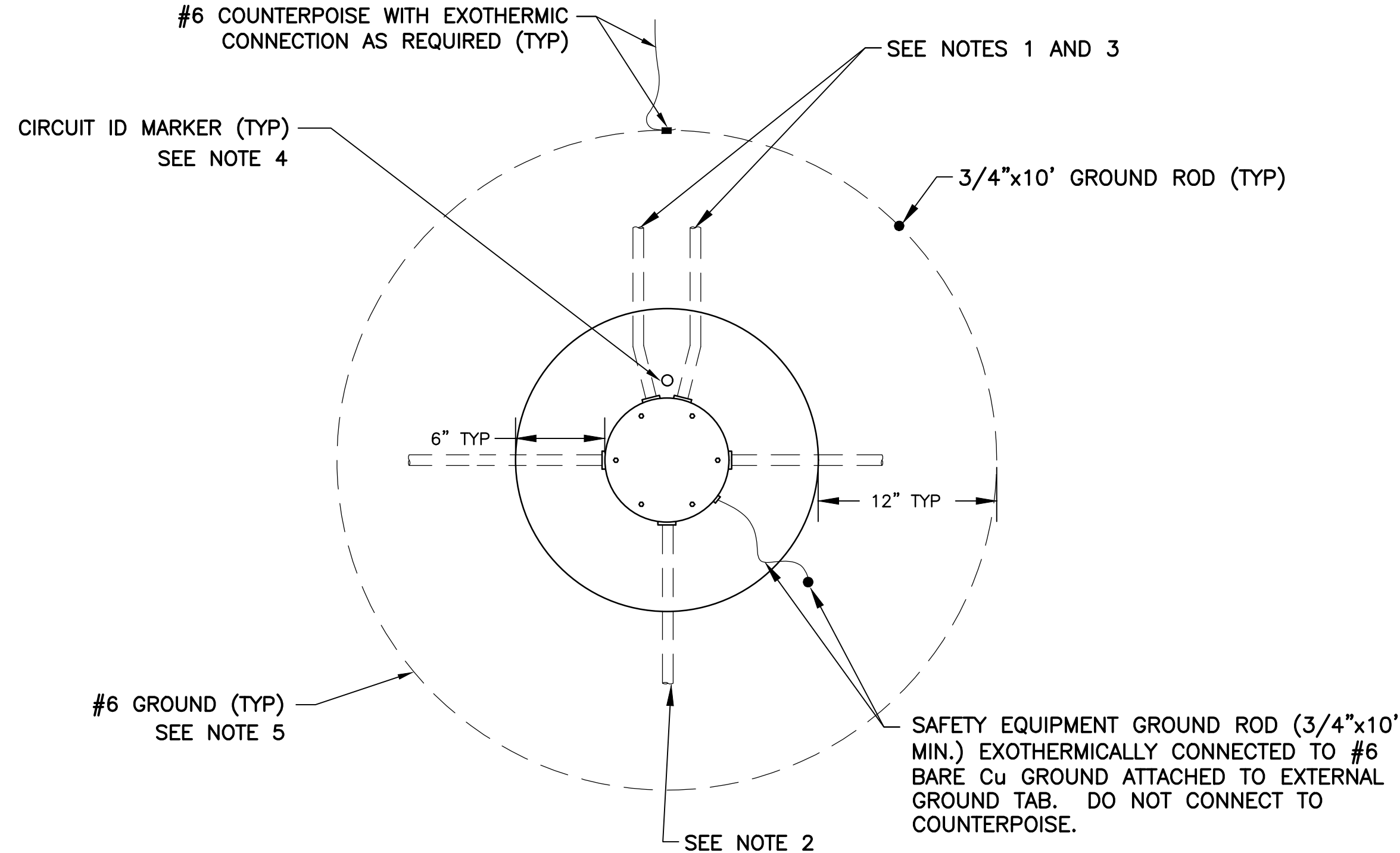
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902 PRE-CAST L-867 FIXTURE BASE/JUNCTION CAN  
TYP NTS

NOTES:

- 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.
- 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.
- CONTRACTOR SHALL SUBMIT ON SPECIFIC PRE-CAST MEANS AND METHODS FOR ENGINEER REVIEW AND APPROVAL.
- REFER TO ELEVATED TAXIWAY AND/OR RUNWAY GUARD LIGHT FIXTURE AND COUNTERPOISE INSTALLATION DETAILS.



821 L-867B JUNCTION CAN DETAIL  
TYP NTS

NOTES:

- NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION. PROVIDE 2" SPARE CONDUIT FOR EACH CIRCUIT AT TAXIWAY CROSSINGS.
- CONDUITS WHICH ARE NOT USED IN THE PROJECT SHALL BE CAPPED 4" OUTSIDE OF CONCRETE.
- ORIENT JUNCTION CAN AS SHOWN ON ELECTRICAL SITE PLANS.
- 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
- 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.
- CONTRACTOR SHALL GRADE AROUND JUNCTION CAN AS NECESSARY TO PREVENT SILT/DIRT INFILTRATION ONTO JUNCTION CAN. NO SEPARATE PAYMENT SHALL BE MADE.
- 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.
- JUNCTION CANS SHALL BE INSTALLED SUCH THAT THE TOP FLANGE IS FLUSH (+0, -1/8") WITH THE TOP OF CONCRETE

GENERAL NOTES:

- 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.
- 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.
- 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.
- 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.

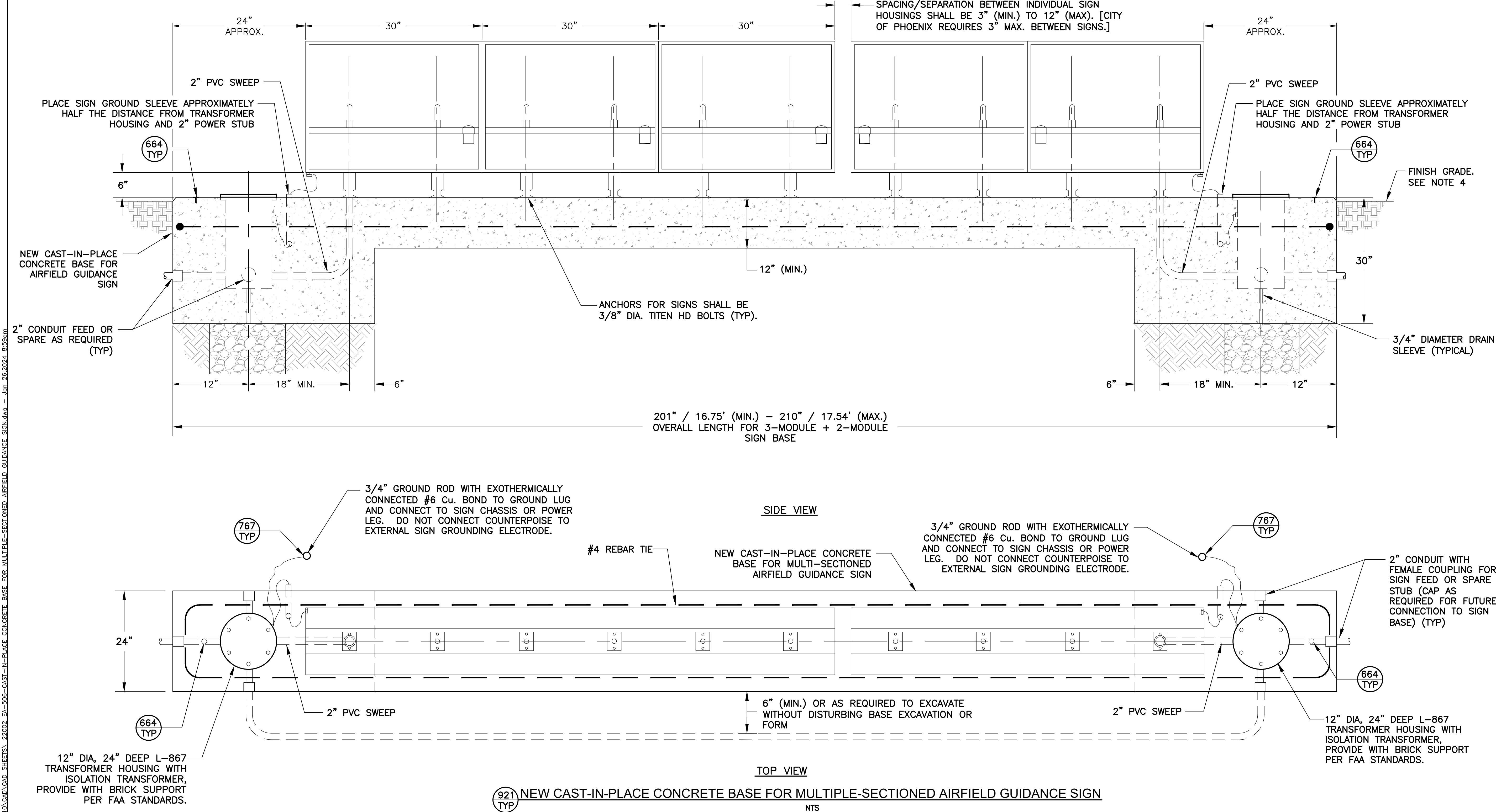
|                                                                                                                                                |                                                                                                                                                                                |                                                            |                                                                                                                                                                                                                                                  |                |               |                |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|----------------|------------------------------------------------|
| PRIME CONSULTANT<br><b>TRACE</b><br>CONSULTING<br>1071 E. Jefferson St., Suite 11 Phoenix, AZ 85034                                            | SUB CONSULTANT<br><b>CR</b><br>engineers<br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.creng.com | 90%<br>SUBMITTAL<br>PRELIMINARY<br>NOT FOR<br>CONSTRUCTION | PER CITY OF PHOENIX CITY CODE CHAPTER 2,<br>SECTION 2-2-28, THESE PLANS ARE FOR OFFICIAL<br>USE ONLY AND MAY NOT BE SHARED WITH<br>OTHERS EXCEPT AS REQUIRED TO FULFILL THE<br>OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH<br>THE CITY OF PHOENIX. |                |               |                |                                                |
|                                                                                                                                                |                                                                                                                                                                                |                                                            | NO                                                                                                                                                                                                                                               | DATE           |               |                |                                                |
| <b>PHX DVT BYR</b><br>CITY OF PHOENIX AVIATION DEPARTMENT<br>DVT TAXIWAY C<br>CONNECTORS C4-C10<br>(GMP 1 - C7 AND C10)<br>AV31000096 FAA/ADOT |                                                                                                                                                                                | Designed by: SW                                            | Drawn by: JBW                                                                                                                                                                                                                                    | Checked by: CA | Date: 01/2024 | Dwg scale: NTS | ADOT GRANT NUMBER(S):<br>E254V 01C & E353K 01C |
| SHEET OVERVIEW TITLE                                                                                                                           |                                                                                                                                                                                | ELECTRICAL DETAILS -<br>JUNCTION CAN                       |                                                                                                                                                                                                                                                  |                |               |                |                                                |
| SHEET<br>REFERENCE<br>NUMBER:<br><b>EA-504</b>                                                                                                 |                                                                                                                                                                                | SHEET<br>48 OF 56                                          |                                                                                                                                                                                                                                                  |                |               |                |                                                |







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

AV31000096 FAA/ADOT

Designed by: SW  
Drawn by: JBW  
Checked by: CA  
Date: 01/2024  
Dwg scale: NTS

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

SHEET  
REFERENCE  
NUMBER:  
**EA-506**

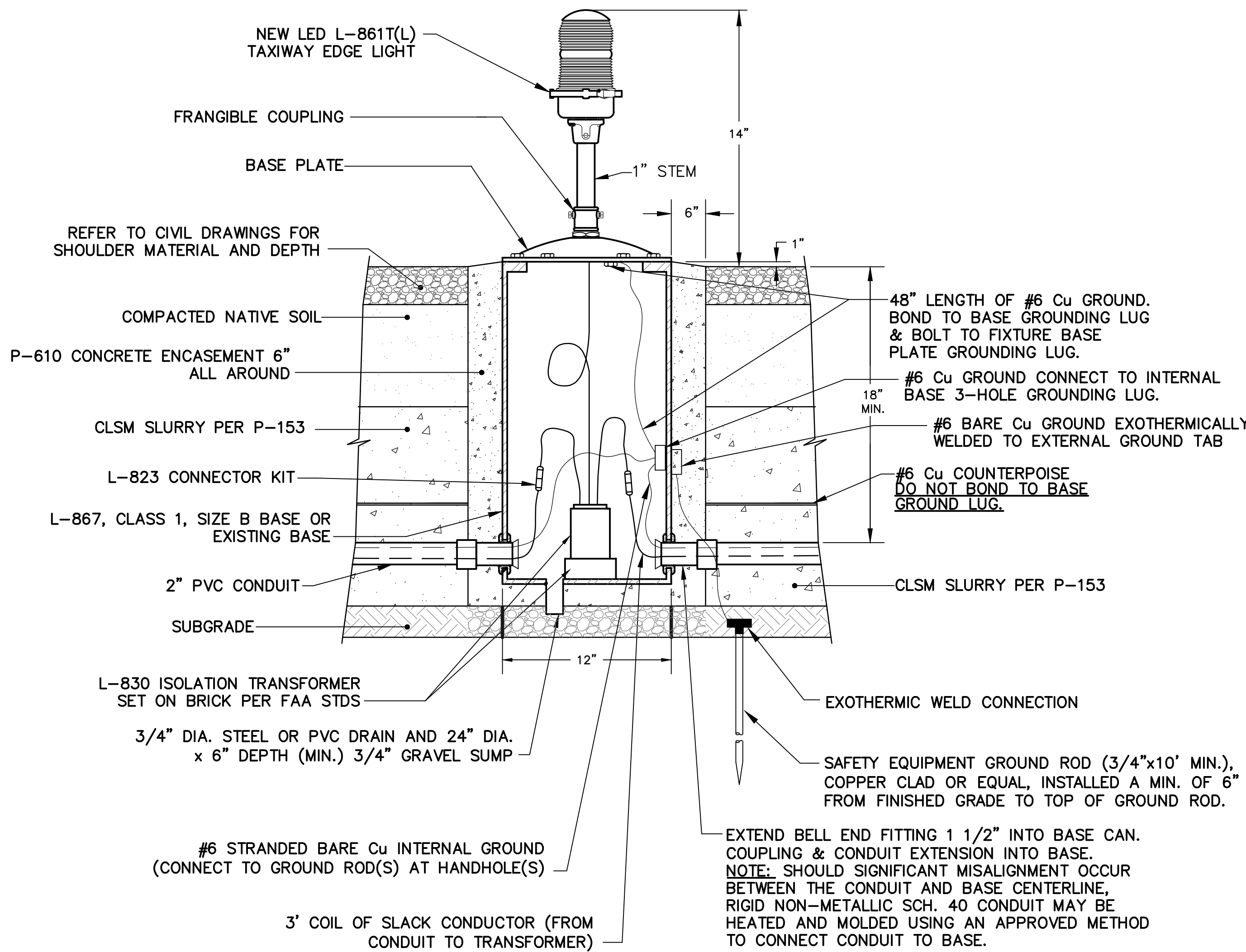
SHEET 50 OF 56

ADOT GRANT NUMBER(S):  
E254V 01C & E353K 01C

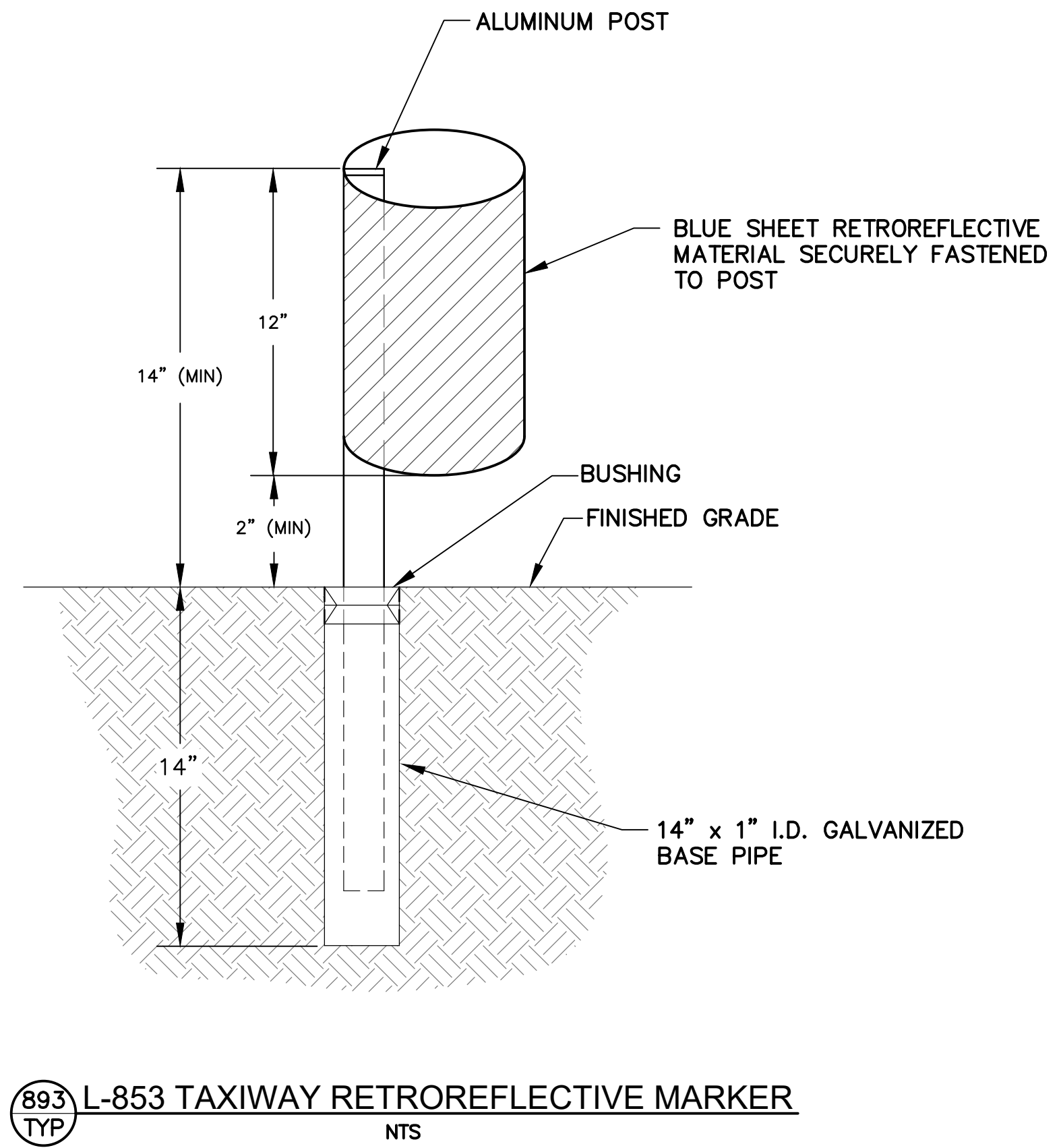








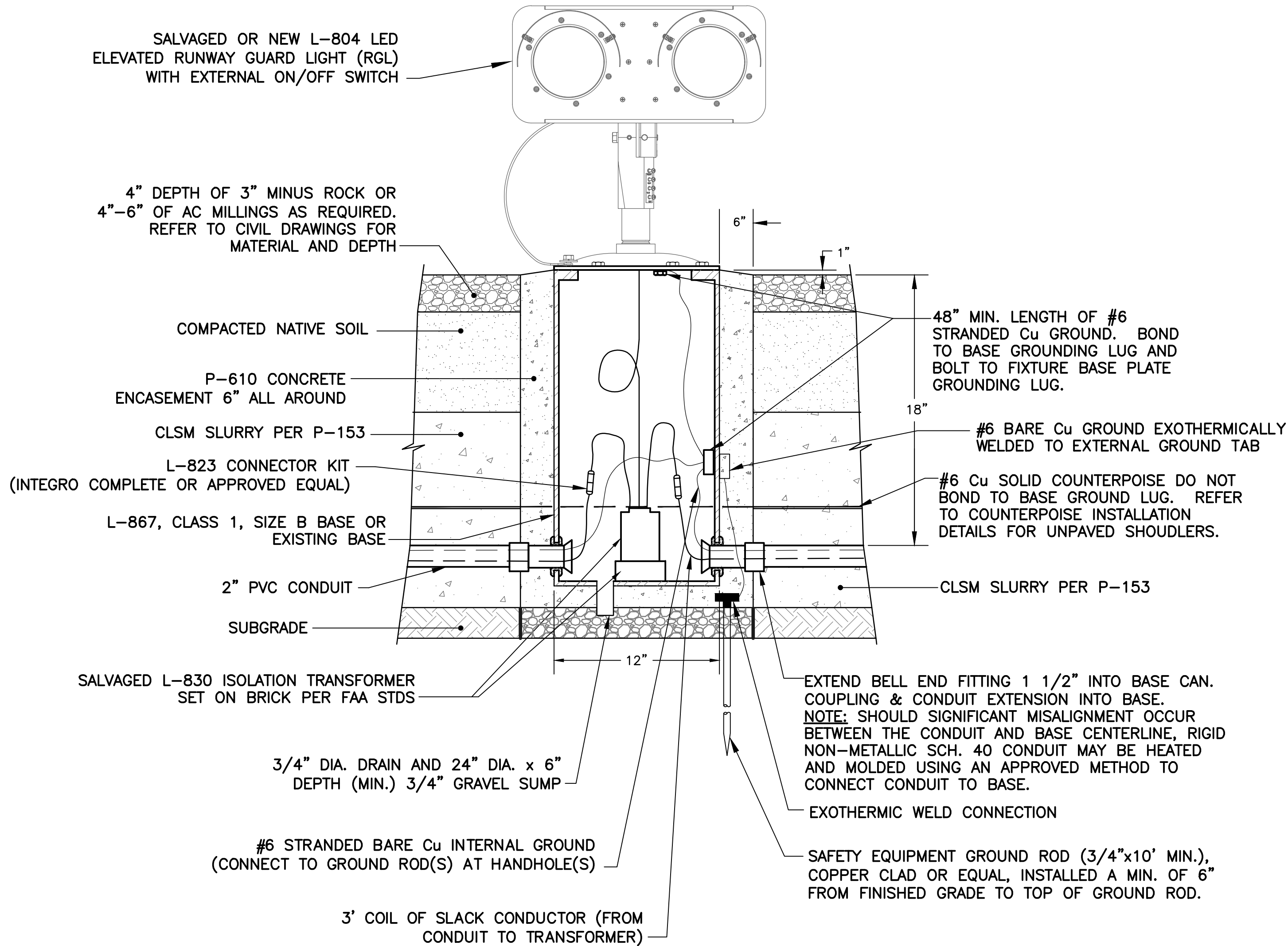
891 ELEVATED TAXIWAY EDGE LIGHT DETAIL  
TYP NTS



893 L-853 TAXIWAY RETROREFLECTIVE MARKER  
TYP NTS



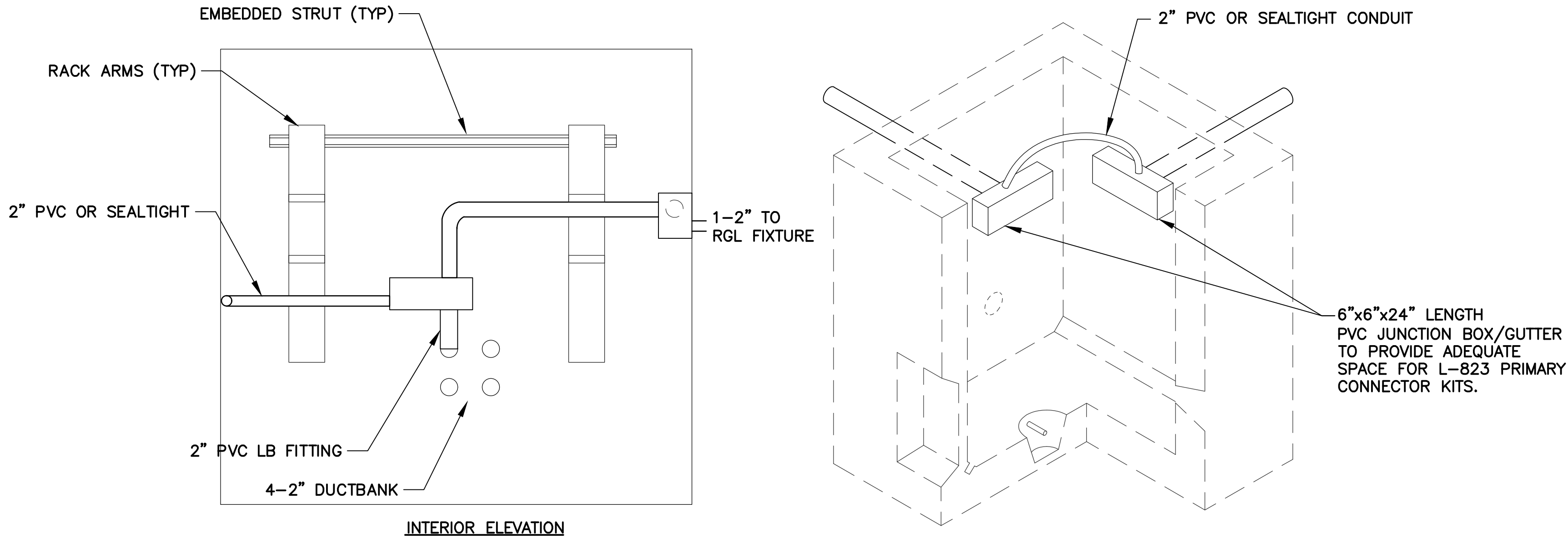
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870  
TYP

ELEVATED RUNWAY GUARD LIGHT DETAIL

NTS

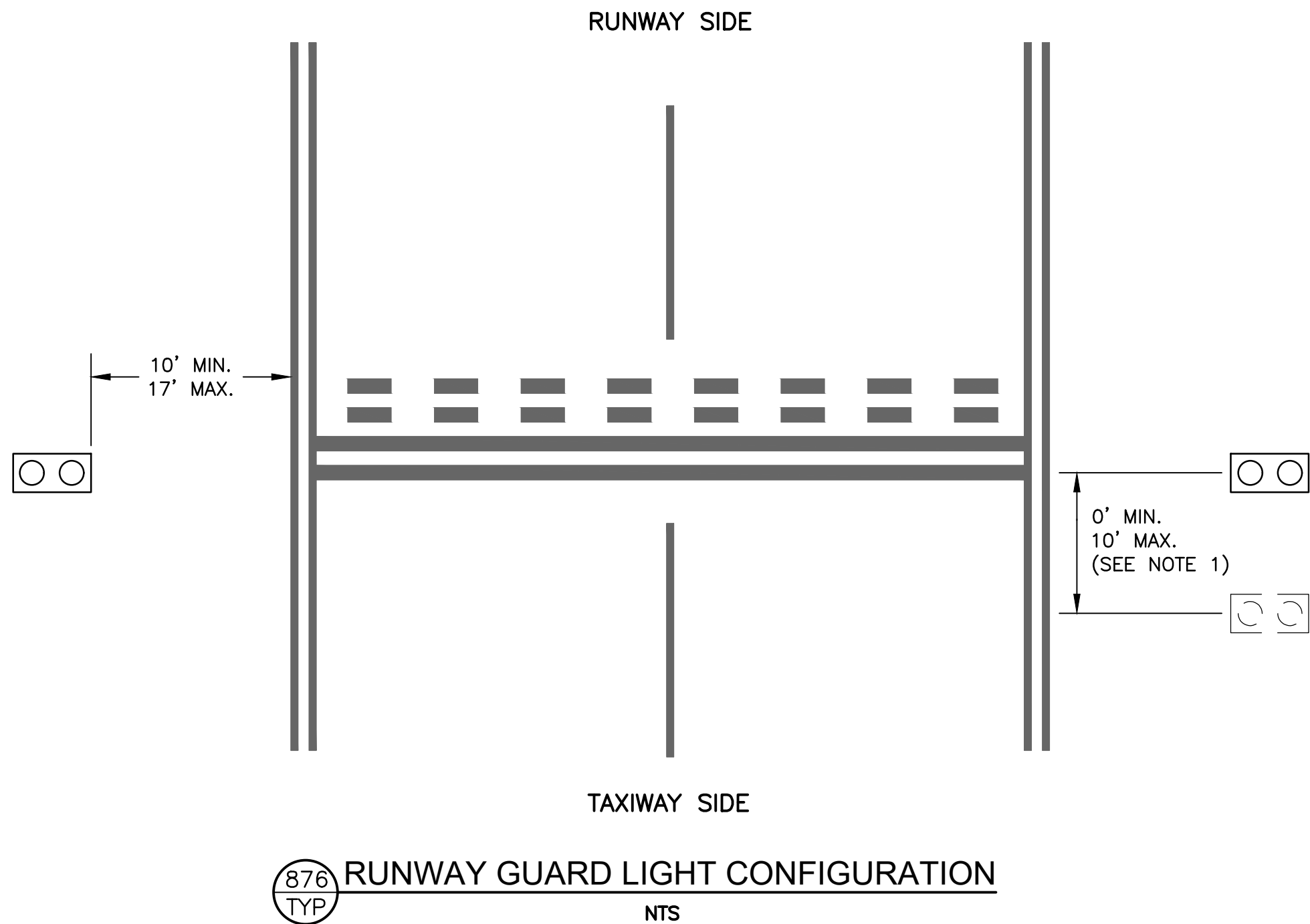


571  
TYP

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.

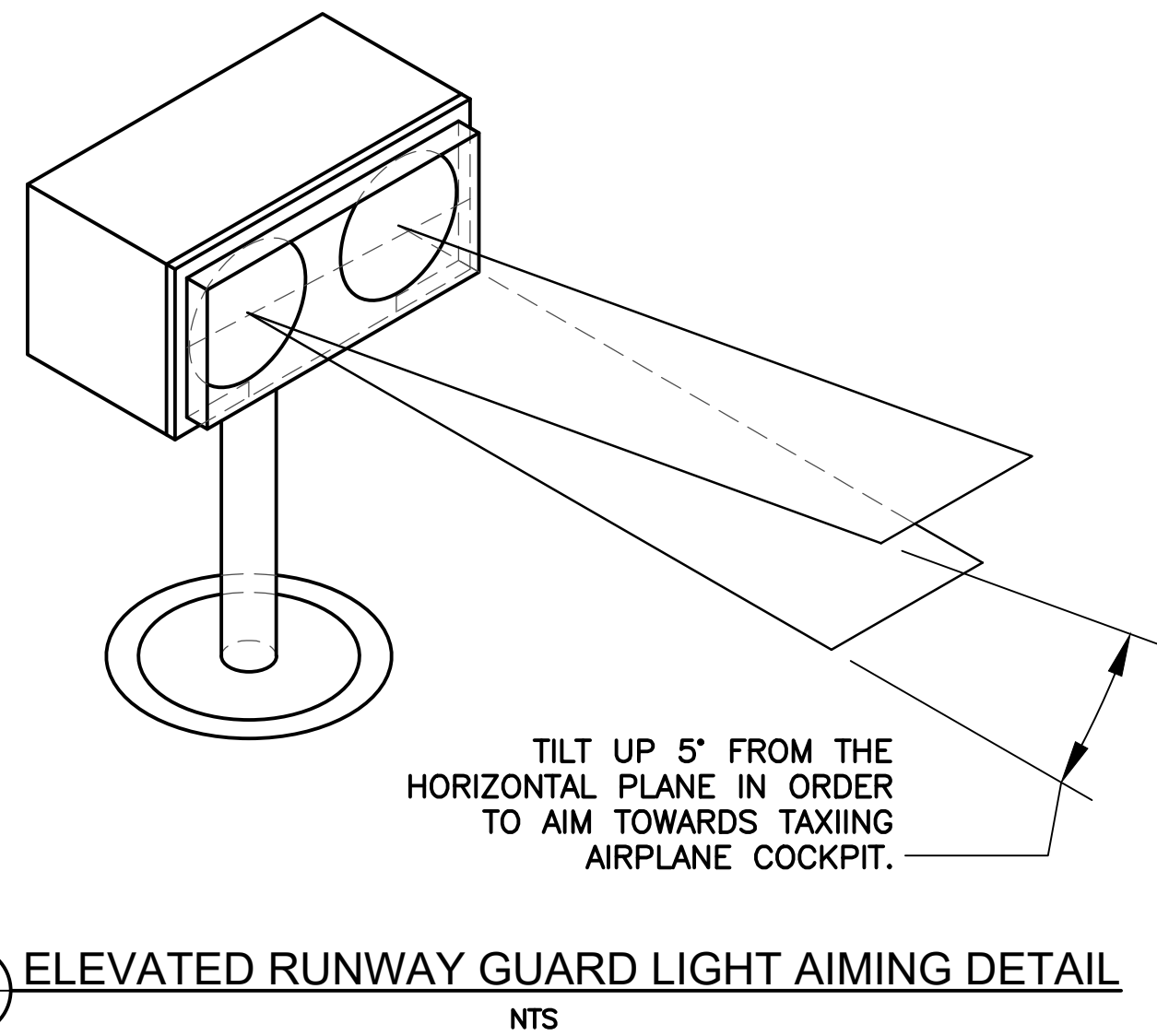


876  
TYP

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.

|                  |                                                                                |                |                                                                                                                                                           |                                                                                                                                                                                                                                 |                |                                             |                                            |
|------------------|--------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------|--------------------------------------------|
| PRIME CONSULTANT | <b>TRACE</b><br>CONSULTING<br>1071 E. Jefferson St. Suite 31 Phoenix, AZ 85035 | SUB CONSULTANT | <b>CR</b> engineers<br>16719 East Palisades Blvd., Suite 202<br>Fountain Hills, AZ 85268<br>Phone: (480) 816-5541<br>Fax: (480) 816-5540<br>www.creng.com | 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. |                |                                             |                                            |
|                  |                                                                                |                |                                                                                                                                                           | 90%<br>SUBMITTAL<br>PRELIMINARY<br>NOT FOR<br>CONSTRUCTION                                                                                                                                                                      |                |                                             |                                            |
|                  |                                                                                |                |                                                                                                                                                           | DESIGNED BY: SW                                                                                                                                                                                                                 | DATE: 01/2024  | ADOT GRANT NUMBER(S): E2S4V 01C & E3S3K 01C | SHEET OVERVIEW TITLE                       |
|                  |                                                                                |                |                                                                                                                                                           | DRAWN BY: JBW                                                                                                                                                                                                                   | CHECKED BY: CA |                                             |                                            |
|                  |                                                                                |                |                                                                                                                                                           | DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)                                                                                                                                                                            |                |                                             | ELECTRICAL DETAILS -<br>RUNWAY GUARD LIGHT |
|                  |                                                                                |                |                                                                                                                                                           | AV31000096 FAA/ADOT                                                                                                                                                                                                             |                |                                             |                                            |
|                  |                                                                                |                |                                                                                                                                                           | SHEET REFERENCE NUMBER: EA-509                                                                                                                                                                                                  |                |                                             | SHEET 53 OF 56                             |
|                  |                                                                                |                |                                                                                                                                                           |                                                                                                                                                                                                                                 |                |                                             |                                            |



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.



### 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 REFERENCE ONLY)

| EQUIPMENT TYPE     | FAA LOCATION STANDARD          | NOTES                                                                                                         |
|--------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------|
| TAXIWAY EDGE LIGHT | 2'-10'<br>(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).

|                                                |                      |                 |                              |                                                                                                                                                                                                                                      |
|------------------------------------------------|----------------------|-----------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHEET<br>REFERENCE<br>NUMBER:<br><b>EA-602</b> | SHEET OVERVIEW TITLE | Designed by: SW | <b>EQUIPMENT DATA TABLES</b> | <p><b>PHX DVT BYR</b></p> <p>CITY OF PHOENIX AVIATION DEPARTMENT</p> <p><b>DVT TAXIWAY C CONNECTORS C4-C10 (GMP 1 - C7 AND C10)</b></p> <p><b>AV31000096 FAA/ADOT</b></p> <p>ADOT GRANT NUMBER(S):<br/>E254V 01C &amp; E353K 01C</p> |
|                                                | Drawn by: JBW        |                 |                              |                                                                                                                                                                                                                                      |
|                                                | Checked by: CA       |                 |                              |                                                                                                                                                                                                                                      |
|                                                | Date: 01/2024        |                 |                              |                                                                                                                                                                                                                                      |
|                                                | Dwg scale: NTS       |                 |                              |                                                                                                                                                                                                                                      |
|                                                |                      |                 |                              |                                                                                                                                                                                                                                      |
|                                                |                      |                 |                              |                                                                                                                                                                                                                                      |



| 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' |

| 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) |

| 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 |

| 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 |

| 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 TYPE                    | FAA LOCATION STANDARD                            | NOTES                                                                                                                                                            |
|-----------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RETROREFLECTIVE<br>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<br>GUIDANCE SIGNS | 10' – 20'<br>(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<br>LIGHT (RGL)       | 10' – 17'<br>(NEAR SIDE OF<br>INSTALLED FIXTURE) | MEASURE FROM TAXIWAY EDGE/OUTER TAXIWAY EDGE MARKING.<br>STATION/OFFSET GIVEN IS CENTER OF BASE CAN ON WHICH<br>RGL FIXTURE IS MOUNTED. (SEE FAA AC 150/5340–30) |

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2. OFFSETS GIVEN ARE MEASURED FROM NEAREST TAXIWAY/RUNWAY CENTERLINE (ALIGNMENT).
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.