# CITY OF PHOENIX

## AVIATION DEPARTMENT

### DESIGN & CONSTRUCTION SERVICES

PROJECT NAME

DEER VALLEY AIRPORT RELOCATE TAXIWAY B & **CONSTRUCT CONNECTORS B6/B9 - GMP 2** 702 WEST DEER VALLEY DRIVE, PHOENIX, AZ 85027

AV31000092 FAA

3-04-0028-XXX-20XX



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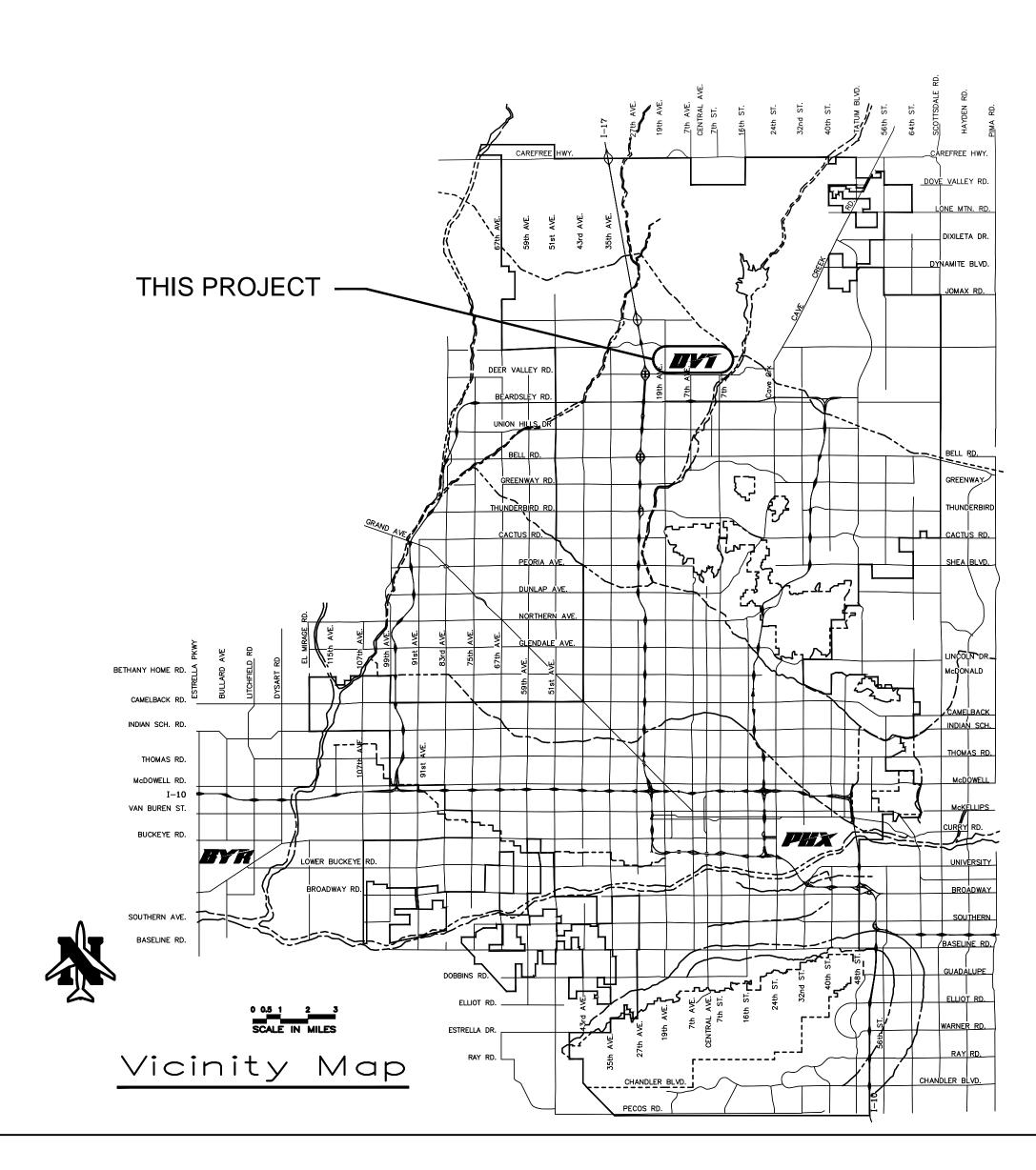
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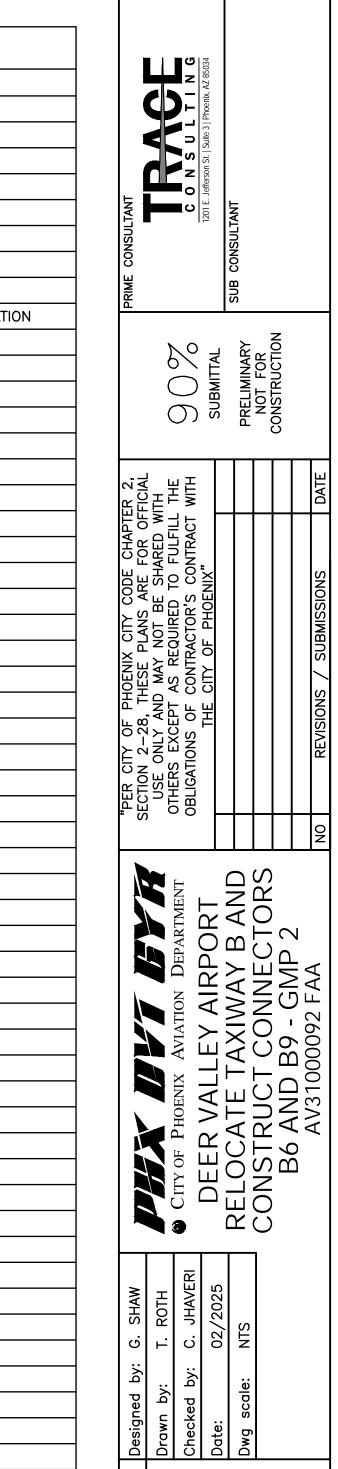


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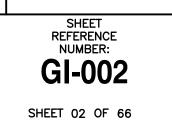
| DESCRIPTION                           | EXISTING                                | PROPOSED   |
|---------------------------------------|---|------------|
|                                       |   |            |
| CONCRETE SIGN BASE TAXIWAY EDGE LIGHT |   |            |
|                                       |   | •          |
| ELECTRICAL CAN COVER                  |   | ©<br>      |
| RUNWAY GUARD LIGHT                    |   | <b>66</b>  |
| SANITARY SEWER AND MANHOLE            | (S)———————————————————————————————————— | S S S S    |
| STORM DRAIN, MANHOLE & INLET          |   |            |
| RUNWAY/TAXIWAY CENTERLINE             |   |            |
| CHAIN LINK FENCE                      | X                                       | X          |
| MAJOR CONTOUR LINES                   | 1125                                    | 1125       |
| MINOR CONTOUR LINES                   |   |            |
| FIBER OPTIC                           | —— FO ——                                | FO         |
| GRADE BREAK                           |   |            |
| FLOW LINE                             |   | _ · _ · _  |
| APS MANHOLE                           |   | (APS)      |
| MONITORING WELL                       | (MW)                                    | •          |
| WATER LINE                            |   |            |
| COMMUNICATION                         | CU_X                                    |            |
| GAS LINE                              | ——— G <sub>X</sub> ———                  | G          |
| FAA                                   |   |            |
| ELECTRICAL RUNWAY SAFETY AREA         | ——— EU <sub>X</sub> ———                 |            |
| TAXIWAY SAFETY AREA                   | —— RSA ———                              |            |
| RUNWAY PROTECTION ZONE                | ——— TSA ———                             |            |
| TAXIWAY OBJECT FREE AREA              |   | —— TOFA —— |
| RUNWAY OBJECT FREE AREA               |   | ROFA       |
| RUNWAY OBSTACLE FREE ZONE             |   | ROFZ       |
| ADJUSTMENT OR REMOVAL NOTE            |   | 1          |
| CONSTRUCTION OR REFERENCE NOTE        |   | 1          |
| SWPPP NOTE                            |   | 1          |
| PAVEMENT MARKING NOTE                 |   | 1          |
| SPOT ELEVATION                        | **.*                                    | 11.11G     |
| SPOT ELEVATION—CATCH BASIN GRATE      |   | 171.716    |
| SAWCUT FULL DEPTH                     |   | S          |
| RUNWAY THRESHOLD LIGHT                |   |            |
| RUNWAY EDGE LIGHT                     | 0                                       |            |
| FLUSH RUNWAY/TAXIWAY LIGHT            | •                                       |            |
| RUNWAY END IDENTIFIER LIGHT           |   |            |
| SIGN                                  |   |            |
| LIGHT                                 | →                                       |            |
| DUCT MARKER                           |   |            |
| WIND SOCK                             |   |            |

| ABBREVIATIONS  |   |  |  |  |  |
|--|---|--|--|--|--|
| ABBREVIATIONS  | DEFINITIONS   |  |  |  |  |
| #  | REBAR SIZE NUMBER   |  |  |  |  |
| 0  | 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   |  |  |  |  |
| ВОТ  | воттом  |  |  |  |  |
| BVC  | BEGIN VERTICAL CURB   |  |  |  |  |
| CL OR ©  | CENTER LINE   |  |  |  |  |
| с то с   | CENTER TO CENTER  |  |  |  |  |
| CFS  | CUBIC FEET PER SECOND   |  |  |  |  |
| C.I.   | CONTOUR INTERVAL  |  |  |  |  |
| CMP  | CORRUGATED METAL PIPE   |  |  |  |  |
| COP  | CITY OF PHOENIX   |  |  |  |  |
|  |   |  |  |  |  |
| СРМ  | CRITICAL PATH METHOD  |  |  |  |  |
| СТВ  | CEMENT TREATED BASE   |  |  |  |  |
| CONC   | CONCRETE  |  |  |  |  |
| CONST  | CONSTRUCTION  |  |  |  |  |
| CLSM   | CONTROLLED LOW STRENGTH MATERIAL  |  |  |  |  |
| СРМ  | CRITICAL PATH METHOD  |  |  |  |  |
| CF OR CU FT  | CUBIC FEET  |  |  |  |  |
| CY   | CUBIC YARDS   |  |  |  |  |
| CZ   | CLEAR ZONE  |  |  |  |  |
| DIA  | DIAMETER  |  |  |  |  |
|  |   |  |  |  |  |
|  | DUCTUE IRON PIPE  |  |  |  |  |
| DIP  | DUCTILE IRON PIPE   |  |  |  |  |
| DIP<br>D <sub>50</sub>   | DIAMETER OF 50% ROCK SIZE   |  |  |  |  |
| DIP D <sub>50</sub> DVT  | DIAMETER OF 50% ROCK SIZE DEER VALLEY AIRPORT   |  |  |  |  |
| DIP D <sub>50</sub> DVT E  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING   |  |  |  |  |
| DIP D <sub>50</sub> DVT  | DIAMETER OF 50% ROCK SIZE DEER VALLEY AIRPORT   |  |  |  |  |
| DIP D <sub>50</sub> DVT E  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING   |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH   |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC EL OR ELEV   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION   |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC EL OR ELEV ESMT  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT   |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC EL OR ELEV ESMT EVC  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE   |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING   |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR F  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE   |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR [  FT  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT   |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR [ FT GA   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  |  |  |  |  |
| DIP D <sub>50</sub> DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR FL FT GA GAL  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  |  |  |  |  |
| DIP D50 DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR E FT GA GAL GALV  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR FL  FT  GA  GAL  GALV  GPM                             | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  |  |  |  |  |
| DIP D50 DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR E FT GA GAL GALV  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR FL  FT  GA  GAL  GALV  GPM                             | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  |  |  |  |  |
| DIP D50 DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR E FT GA GAL GALV GPM HP   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  |  |  |  |  |
| DIP D50 DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR E FT GA GAL GALV GPM HP ID  | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER   |  |  |  |  |
| DIP D50 DVT E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR E FT GA GAL GALV GPM HP ID ID   | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION   |  |  |  |  |
| DIP  D50  DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR F  FT  GA  GAL  GALV  GPM  HP  ID  IE  ILS                        | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  INSTRUMENT LANDING SYSTEM  |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR FL  FT  GA  GAL  GALV  GPM  HP  ID  IE  ILS  JB  KV    | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  JUNCTION BOX  KILOVOLT   |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR F  GA  GAL  GALV  GPM  HP  ID  IE  ILS  JB  KV  L      | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  JUNCTION BOX  KILOVOLT  LENGTH OR LEFT   |  |  |  |  |
| DIP  D <sub>50</sub> DVT  E  EA  ELEC  EL OR ELEV  ESMT  EVC  EX OR EXST  FAA  FIN  FL OR F  GA  GAL  GALV  GPM  HP  ID  IE  ILS  JB  KV  L  LBS | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  INSTRUMENT LANDING SYSTEM  JUNCTION BOX  KILOVOLT  LENGTH OR LEFT  POUNDS                        |  |  |  |  |
| DIP D50 DVT E E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR F GA GAL GALV GPM HP ID IE ILS JB KV L L LBS LF                             | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  INSTRUMENT LANDING SYSTEM  JUNCTION BOX  KILOVOLT  LENGTH OR LEFT  POUNDS  LINEAL FOOT           |  |  |  |  |
| DIP D50 DVT E E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR F GA GAL GALV GPM HP ID IE ILS JB KV L L LBS LF LS                          | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  INSTRUMENT LANDING SYSTEM  JUNCTION BOX  KILOVOLT  LENGTH OR LEFT  POUNDS  LINEAL FOOT  LUMP SUM |  |  |  |  |
| DIP D50 DVT E E EA ELEC EL OR ELEV ESMT EVC EX OR EXST FAA FIN FL OR F GA GAL GALV GPM HP ID IE ILS JB KV L L LBS LF                             | DIAMETER OF 50% ROCK SIZE  DEER VALLEY AIRPORT  EAST OR EASTING  EACH  ELEC/ELECTRICAL  ELEVATION  EASEMENT  END VERTICAL CURVE  EXISTING  FEDERAL AVIATION ADMINISTRATION  FINISHED  FLOW LINE  FOOT  GAUGE  GALLON  GALVANIZED  GALLONS PER MINUTE  HIGH POINT  INSIDE DIAMETER  INVERT ELEVATION  INSTRUMENT LANDING SYSTEM  JUNCTION BOX  KILOVOLT  LENGTH OR LEFT  POUNDS  LINEAL FOOT           |  |  |  |  |

|              | ABBREVIATIONS  |  |  |  |
|--------------|--|--|--|--|
| BBREVIATIONS | DEFINITIONS  |  |  |  |
| M#<br>MAG    | MILESTONE  MARICOPA ASSOCIATION OF GOVERNMENTS       |  |  |  |
| MAX          | MAXIMUM  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 PADILIS OF RIGHT                            |  |  |  |
| RCP          | RADIUS OR RIGHT                                      |  |  |  |
| REIL         | REINFORCED CONCRETE PIPE 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   |  |  |  |
| TDM          | TANGENT LENGTH                                       |  |  |  |
| TBM          | TEMPORARY BENCHMARK                                  |  |  |  |
| TOFA<br>TSA  | TAXIWAY OBJECT FREE AREA TAXIWAY SAFETY AREA         |  |  |  |
| TWY          | TAXIWAY SAFETY AREA                                  |  |  |  |
| TYP          | TYPICAL  |  |  |  |
| UG           | UNDERGROUND  |  |  |  |
| V OR VERT    | VERTICAL   |  |  |  |
| - 3713 VIIVI | VERTICAL CURVE                                       |  |  |  |
|              | ,  |  |  |  |
| VC VCP       | VITRIFIED CLAY PIPE                                  |  |  |  |
| VC           | VITRIFIED CLAY PIPE WEST OR WATER                    |  |  |  |
| VC<br>VCP    |  |  |  |  |







SHEET INDEX, LEGEND AND ABBREVIATIONS

#### **GENERAL NOTES:**

- 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 SHALL

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.
- 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.
- 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.
- 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:

(602) 305–2532 CONTACT: ROGER GUSTAFSON FAA FACILITIES CENTURY LINK (602) 530-0496 CONTACT: JOHN O'DELL GAS (SW GAS) (602) 484-5344 CONTACT: NORMA JARDIN (602) 261-8229 CONTACT: JAMI ERICKSON CITY WATER/SEWER (602) 273-3396 CONTACT: REBECCA GODLEY COP ENVIRONMENTAL ALL EMERGENCY, FIRE, POLICE, MEDICAL, (623) 869-0977 CONTACT: OPERATOR NON-EMERGENCY (602) 339-7733 CONTACT: ROBERT ARTHUR COP ELECTRICAL (602) 708-0244 CONTACT: CHAD BLOTKAMP COP COMMUNICATIONS (602) 708-0244 CONTACT: CHAD BLOTKAMP COP UTILITIES

ARIZONA PUBLIC SERVICE (602) 371-6451 CONTACT: DON CROWDER

- 18. 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.
- 19. 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.
- 20. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND ELECTRICAL SYSTEMS TO REMAIN PRIOR TO COMMENCING ANY DRAINAGE EXCAVATION.
- 21. 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.
- 22. 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.
- 23. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE HYDRANTS AT ALL TIMES.
- 24. 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.
- 25. 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.
- 26. 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.
- 27. 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.
- 28. 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.
- 29. 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.
- 30. 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.
- 31. 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.
- 2. 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.
- 33. 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.
- 34. 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.
- 35. 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.
- 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING EMPLOYEES TO AND FROM THE PROJECT SITE IF NECESSARY.
- 37. 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.
- 38. EACH CONTRACTOR/SUBCONTRACTOR, INCLUDING EACH CONTRACTOR/SUBCONTRACTOR EMPLOYEE, WHO OPERATES A GROUND VEHICLE ON ANY PORTION OF THE AOA AT THE AIRPORT MUST BE FAMILIAR WITH:
  - DVT RULES AND REGULATIONS.
  - DVT PROCEDURES FOR THE OPERATION OF GROUND VEHICLES.
  - · FAILURE TO COMPLY WITH DVT RULES AND REGULATIONS AND/OR PROCEDURES FOR THE OPERATION OF GROUND VEHICLES, WILL REQUIRE THE PERSON TO ATTEND A MOVEMENT AREA OPERATING PROCEDURES CLASS
- 39. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, CONSTRUCTION EQUIPMENT (IE. ROLLERS. BACKHOES, SCRAPERS, ETC.) THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1' SQUARE, WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLES SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO SUPPLIED.

- 40. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR EACH WORKSHIFT UNLESS TRAVELING TO OR FROM THE SITE. ALL VEHICLES AND EQUIPMENT SHALL BE PARKED IN STAGING AREAS AS APPROVED BY THE ENGINEER AND AIRPORT.
- 41. CONTRACTOR SHALL PROVIDE TRAINED FLAGMEN TO COORDINATE AND CONTROL CONSTRUCTION TRAFFIC WHEN OPERATING ACROSS ANY ACTIVE TAXIWAY. FLAGMEN SHALL BE EQUIPPED WITH RADIOS ON GROUND CONTROL FREQUENCY AND SHALL ALLOW TRAFFIC CROSSINGS ON ACTIVE TAXIWAYS AND RUNWAYS ONLY UPON SPECIFIC AUTHORIZATION BY AIR TRAFFIC CONTROL. FLAGMEN SHALL ALSO BE PROVIDED FOR CONTROLLING EQUIPMENT ENTERING AND LEAVING THE PROJECT AREA.
- 42. THE CONTRACTOR SHALL AT NO TIME CROSS AN ACTIVE RUNWAY OR TAXIWAY UNLESS ESCORTED BY A COP RADIO ESCORT. VIOLATION COULD RESULT IN PERMANENT EJECTION FROM THE AIRPORT PROPERTY AND/OR THE ASSESSMENT OF FINES.
- 43. CONTRACTOR ACCESS GATE SHALL BE MANNED BY A CONTRACTOR SUPPLIED GATE GUARD OR REMAIN LOCKED AT ALL TIMES (WHEN NOT OCCUPIED). APPROVED GATE GUARD SHALL CONTROL ACCESS TO ALLOW ONLY AUTHORIZED CONSTRUCTION TRAFFIC TO ENTER THE SITE.
- 44. CONSTRUCTION EQUIPMENT SHALL NOT PENETRATE THE HEIGHT RESTRICTIONS FOR FAR PART 77.
- 45. ALL SURFACE RUNOFF FROM THE STAGING AREA OR THE AREAS UNDER CONSTRUCTION SHALL BE COLLECTED AND ADEQUATELY FILTERED BEFORE DISCHARGE INTO THE EXISTING DRAINAGE SYSTEM. CONTRACTOR SHALL MITIGATE THE IMPACTS OF RUNOFF FROM THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS.
- 46. NO ADJUSTMENT FOR ADDITIONAL COMPENSATION AND TIME WILL BE MADE FOR TIME LOST IN WORK AREAS CONTIGUOUS TO TAXIWAYS AND RUNWAYS DUE TO AIRCRAFT TRAFFIC.
- 47. CONTRACTOR SHALL NOTE IN THE RECORD DRAWINGS ANY AND ALL PIPES, DUCTS AND CABLES FOUND DURING EXCAVATION. INDICATE EXACT POSITION, ELEVATION, DIRECTION, SIZE, MATERIAL, PURPOSE AND ACTIVE STATUS, IF KNOWN.
- 48. ANY PAINT USED FOR NEW PAVEMENT MARKINGS SHALL BE LEAD FREE CERTIFIED. CONTRACTOR TO PROVIDE SAFETY DATA SHEET TO THE AIRPORT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 49. BEFORE ANY WORK COMMENCES, AN ASBESTOS AND LEAD SURVEY NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT CITY OF PHOENIX AVIATION DEPARTMENT PROJECT MANAGER APPROXIMATELY 3-4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE ASBESTOS AND LEAD SURVEY DONE. ANY ENVIRONMENTAL HAZARDS FOUND DURING THIS SURVEY SHALL BE ABATED PRIOR TO ANY DISTURBANCE. CONTRACTOR TO ALSO NOTIFY CITY OF PHOENIX AVIATION DEPARTMENT PROJECT MANAGER FOR ANY SUBSURFACE MATERIALS FOUND DURING CONSTRUCTION. CONTRACTOR SHALL ASSUME ALL SUSPECT MATERIALS CONTAIN ASBESTOS (ANYTHING OTHER THAN UNPAINTED WOOD, METAL, OR GLASS) UNLESS OTHERWISE NOTIFIED.
- 50. IF SOIL IS TO BE REMOVED FROM THE AIRPORT, THEN PRIOR TO ANY WORK COMMENCING, SOIL SAMPLING NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT CITY OF PHOENIX AVIATION DEPARTMENT PROJECT MANAGER APPROXIMATELY 3-4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE SOIL SAMPLING COMPLETED. THE SOIL SHALL BE SAMPLED BY COP ENVIRONMENTAL ON-CALL CONSULTANTS WITH ASSISTANCE FROM THE CONTRACTOR. CONTRACTOR SHALL PROVIDE BARRICADES, COMMUNICATE WITH OPERATIONS AND REPLACE THE CORED AREA AFTER SAMPLING IS COMPLETE PER AIRPORT SPECIFICATIONS.
- 51. THE PROJECT WILL DISTURB MORE THAN 1/10 OF AN ACRE. THE CONTRACTOR SHALL OBTAIN A MARICOPA COUNTY DUST CONTROL PERMIT PRIOR TO CONSTRUCTION.
- 52. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION GENERAL PERMIT FROM ADEQ AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE SUBMITTED TO COP AIRPORT ENVIRONMENTAL FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
- 53. ANY WASTE OR CONSTRUCTION DEBRIS MUST BE DISPOSED OF PROPERLY. THE DISPOSAL OF MATERIAL OFF-SITE SHALL BE DONE IN A LAWFUL MANNER AND AT A SITE HAVING CURRENT APPROVAL TO ACCEPT SOLID WASTE FOR DISPOSAL.
- 54. CONTRACTOR TO OBTAIN PERMIT FROM THE WATER DEPARTMENT TO ACCESS STORM DRAINS, STORM DRAIN MANHOLES, AND SANITARY SEWER MANHOLES IF REQUIRED.
- 55. SERVICE ROAD ACCESS SHALL BE MAINTAINED AT ALL TIMES. ALIGNMENT FOR SERVICE ROAD DETOURS SHALL BE APPROVED BY AIRPORT OPERATIONS AND SECURITY.

C O N S U L T I N O TOTO I. Jefferson St. | Sutle 3 | Phoenix, AZ 8503

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TION 2–28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH HERS EXCEPT AS REQUIRED TO FULFILL THE LIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

OF PHOENTX AVIATION DEPARTMENT
ER VALLEY AIRPORT
SCATE TAXIWAY B AND
STRUCT CONNECTORS
36 AND B9 - GMP 2

 $\alpha$ 

Drawn by: T. ROTH
Checked by: C. JHAVERI
Date: 02/2025
Dwg scale: NTS

GENERAL NOTES

SHEET
REFERENCE
NUMBER:
GI-003
SHEET 03 OF 66



| APPROXIMATE QUANTITY SUMMARY   |   |  |  |  |
|--|---|--|--|--|
| LINE NO.   | ITEM NO.  | DESCRIPTION  | UNIT   | APPROXIMATE<br>QUANTITY  |
| 1  | SP-30.1   | CONSTRUCTION SURVEY LAYOUT   | LS   | 1  |
| 2  | SP-31.1   | MISCELLANEOUS REMOVALS AND OTHER WORK (ALLOWANCE)  | ALLOWANCE                                      | 1  |
| 3  | SP-34.1   | UNFORESEEN UTILITY LOCATING (ALLOWANCE)  | ALLOWANCE                                      | 1  |
| 4  | SP-35.1   | EXISTING UTILITY RELOCATIONS (ALLOWANCE)   | ALLOWANCE                                      | 10.012   |
| 5<br>6   | SP-37.1<br>SP-38.1  | REMOVE, HAUL, AND STOCKPILE CRUSHED AGGREGATE SLOPE PROTECTION HAUL AND PLACE CRUSHED AGGREGATE SLOPE PROTECTION   | SY<br>SY                                       | 10,012<br>15,877   |
| 7  | SP-41-8.1   | AIRPORT SAFETY AND SECURITY (M-003)  | LS   | 1  |
| 8  | SP-42-5.1   | LOCATION OF UNDERGROUND UTILITIES LS   |  | 1  |
| 9  | C-100   | CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)  |  | 1  |
| 10   | C-102-6.1   | STORM WATER POLLUTION PREVENTION   |  | 1  |
| 11   | C-105   | MOBILIZATION (MAXIMUM 4%)  |  | 1  |
| 12   | P-101-5.1a  | REMOVE ASPHALT PAVEMENT UP TO 4" S'  |  | 10,351   |
| 13   | P-101-5.1a  | REMOVE ASPHALT PAVEMENT UP TO 2"   | SY   | 4,486  |
| 14   | P-151-4.1   | CLEARING AND GRUBBING  | LS   | 1  |
| 15   | P-152   | UNCLASSIFIED EXCAVATION  | CY   | 589<br>4,791   |
| 16<br>17   | P-155<br>P-209  | LIME—TREATED SUBGRADE  CRUSHED AGGREGATE BASE COURSE   | SY<br>SY                                       | 4,638  |
| 18   | P-401   | ASPHALT SURFACE COURSE   | TON  | 1,304  |
| 19   | P-603   | EMULSIFIED ASPHALT TACK COAT   | TON  | 14   |
| 20   | P-620-5.1a  | OBLITERATE EXISTING PAVEMENT MARKING   | SF   | 1,195  |
| 21   | P-620-5.2.b.1   | YELLOW PAINT MARKING   | SF   | 3,174  |
| 22   | P-620-5.2.b.2   | WHITE PAINT MARKING  | SF   | 875  |
| 23   |   | RED PAINT MARKING  | SF   | 126  |
| 24   |   | BLACK PAINT MARKING  | SF   | 3,724  |
| 25   | P-620-5.3.c   | REFLECTIVE MEDIA  REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER,  | LS   | 1  |
| 26   | L-100-5.1   | REMOVE EXISTING BASE CAN   | EA   | 41   |
| 27   | L-100-5.2   | REMOVE AND SALVAGE EXISTING RUNWAY GUARD LIGHT AND ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN   | EA   | 4  |
| 28   | L-100-5.4   | REMOVE EXISTING JUNCTION CAN / PULL BOX  | EA   | 4  |
| 29   | L-100-5.5   | EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR   | LF   | 5,895  |
| 30   | L-100-5.6   | REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN   | LF   | 175  |
| 31   | L-100-5.7   | REMOVE EXISTING CONCRETE ENCASED DUCTBANK  | LF   | 340  |
| 32   | L-100-5.8   | REMOVE AND SALVAGE AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER, REMOVE CONCRETE SIGN BASE   | EA   | 9  |
|  |   | OUNDRETE SIGN BASE   |  |  |
| 33   | L-100-5.9   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  | EA   | 5  |
| 34   | L-100-5.10  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  | EA   | 1  |
| 34<br>35   | L-100-5.10<br>L-100-5.11  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  | EA<br>EA                                       | 5<br>1<br>2  |
| 34<br>35<br>36   | L-100-5.10<br>L-100-5.11<br>L-100-5.12  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  | EA<br>EA<br>LS                                 | 1<br>2<br>1  |
| 34<br>35<br>36<br>37   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND   | EA<br>EA                                       | 1  |
| 34<br>35<br>36   | L-100-5.10<br>L-100-5.11<br>L-100-5.12  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  | EA<br>EA<br>LS<br>LF                           | 1<br>2<br>1<br>1,875   |
| 34<br>35<br>36<br>37<br>38   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  | EA EA LS LF                                    | 1<br>2<br>1<br>1,875<br>10,505   |
| 34<br>35<br>36<br>37<br>38<br>39   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  | EA EA LS LF LF                                 | 1<br>2<br>1<br>1,875<br>10,505<br>220  |
| 34<br>35<br>36<br>37<br>38<br>39   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.2  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  | EA EA LS LF LF LF                              | 1<br>2<br>1<br>1,875<br>10,505<br>220<br>2,360   |
| 34<br>35<br>36<br>37<br>38<br>39<br>40   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.2<br>L-110-5.3<br>L-110-5.4  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  | EA EA LS LF LF LF LF                           | 1<br>2<br>1<br>1,875<br>10,505<br>220<br>2,360<br>150                                  |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.2<br>L-110-5.3<br>L-110-5.4  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED  | EA EA LS LF LF LF LF LF                        | 1<br>2<br>1<br>1,875<br>10,505<br>220<br>2,360<br>150<br>1,500                         |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.2<br>L-110-5.3<br>L-110-5.4<br>L-110-5.5   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  | EA EA LS LF LF LF LF LF LF                     | 1 2 1 1,875 10,505 220 2,360 150 1,500 105   |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.2<br>L-110-5.3<br>L-110-5.4<br>L-110-5.5<br>L-110-5.7  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  | EA  EA  LS  LF  LF  LF  LF  LF  LF  LF         | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290   |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45   | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.3<br>L-110-5.4<br>L-110-5.5<br>L-110-5.7<br>L-110-5.13   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED - RETROFIT IN EXISTING ASPHALT   | EA EA LS LF LF LF LF LF LF LF LF LF            | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120                                     |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47                                     | L-100-5.10<br>L-100-5.11<br>L-100-5.12<br>L-108-5.1<br>L-108-5.2<br>L-110-5.1<br>L-110-5.3<br>L-110-5.4<br>L-110-5.5<br>L-110-5.7<br>L-110-5.13<br>L-110-5.14   | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED - RETROFIT IN EXISTING ASPHALT PAVEMENT  NEW HANDHOLE, PREFABRICATED CONCRETE 4'X4'X4' WITH AIRCRAFT RATED LID,  | EA EA LS LF         | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120                                     |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48                               | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FURNISHED AND INSTALLED  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED   | EA  EA  LS  LF  LF  LF  LF  LF  LF  LF  LF  LF | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120                                     |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49                         | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FROVIDE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING   | EA  EA  LS  LF  LF  LF  LF  LF  LF  LF  LF  LF | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1                              |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50                   | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALL DEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE   | EA  EA  LS  LF  LF  LF  LF  LF  EA  EA  EA     | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1                              |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51             | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.6  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED - RETROFIT IN EXISTING ASPHALT PAVEMENT  NEW HANDHOLE, PREFABRICATED CONCRETE 4'X4'X4' WITH AIRCRAFT RATED LID, FURNISHED AND INSTALLED  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE   | EA   | 1 2 1 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 1 5 1 1                |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52       | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.6 L-115-5.6 L-125-5.2  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALLED  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER   | EA   | 1 2 1 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4                      |
| 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53  | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.6 L-125-5.2 L-125-5.3  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SCONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FURNISHED AND INSTALLED  PROVIDE AND INSTALLED  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL RGL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD   | EA   | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6                      |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52<br>53 | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.3 L-115-5.4 L-115-5.4 L-115-5.6 L-125-5.2 L-125-5.3 L-125-5.4            | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE AND INSTALL REW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL REL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 2, STYLE 2, 4-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 4-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD   | EA   | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6                      |
| 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54   | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4 L-115-5.6 L-125-5.3 L-125-5.5 L-125-5.7                                | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE AND INSTALL REW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALL REW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL REL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE  CAN  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 4-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE  | EA   | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6 6 5 1                |
| 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55  | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.3 L-110-5.4 L-110-5.5 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4 L-115-5.6 L-125-5.2 L-125-5.3 L-125-5.5 L-125-5.7 L-125-5.8                      | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE AND INSTALL REW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALL REW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL REW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE  CAN  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 4-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD   | EA   | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6 6 5 1 1 2 1 1        |
| 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57  | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4 L-115-5.4 L-115-5.5 L-125-5.2 L-125-5.3 L-125-5.5 L-125-5.7 L-125-5.8 L-125-5.9  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FURNISHED AND INSTALL REMAINS ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED - RETROFIT IN EXISTING ASPHALT PAVEMENT  NEW HANDHOLE, PREFABRICATED CONCRETE 4'X4'X4' WITH AIRCRAFT RATED LID, FURNISHED AND INSTALL NEW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL REL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL REL ISOLATION BOXES AND CONDUITS IN NEW OR EXISTING CONCRETE HAND HOLE  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN  NEW SURFACE MOUNTED L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENAN | EA   | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6 6 5 1 1 2 1 5        |
| 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57  | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4 L-115-5.6 L-125-5.2 L-125-5.3 L-125-5.5 L-125-5.7 L-125-5.8 L-125-5.9 L-125-5.10 | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5kV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5kV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  PROVIDE AND INSTALL ROW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED LID, FURNISHED AND INSTALLED  PROVIDE AND INSTALL ROW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL ROW PRECAST LID WITH CYLINDER ASSISTED, AIRCRAFT RATED HATCH ON EXISTING CONCRETE HAND HOLE  PROVIDE AND INSTALL ROW SEAL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE  CAN  NEW L-867D JUNCTION CAN WITH STEEL BLANK COVER  INSTALL SALVAGED ELEVATED RGL AND ISOLATION TRANSFORMER ON NEW L-867 BASE  CAN  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858 (L) SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE SIGN, ON NEW CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858 | EA   | 1 2 1 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6 6 5 1 1 2 2 1 5 48 |
| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43   | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4 L-115-5.4 L-115-5.5 L-125-5.2 L-125-5.3 L-125-5.5 L-125-5.7 L-125-5.8 L-125-5.9  | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS L-824, TYPE C, 1/C #8 AWG, 5kV CABLE, W/ #6 BARE COPPER GROUND L-824, TYPE C, 2/C #8 AWG, 5kV CABLE, W/ #6 BARE COPPER GROUND SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE) SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED MULTIPLE-WAY, (6) - 2" CONDUIT, CONCRETE ENCASED MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  FINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MEW SLE-858(L) SIZE 1, STYLE 2, 2-MODULE, AIRFIELD GUIDANCE SIGN, ON NEW  CONCRETE SIGN BASE W/ ASPHALT MAINTENANCE PAD  NEW L-858(L) SIZE 1, STYLE 2, 5-MODULE (2-MOD + 3-MOD), AIRFIELD GUIDANCE  SIGN, O | EA   | 1 2 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6 6 5 1 1 2 1 5        |
| 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57  | L-100-5.10 L-100-5.11 L-100-5.12 L-108-5.1 L-108-5.2 L-110-5.1 L-110-5.2 L-110-5.3 L-110-5.4 L-110-5.7 L-110-5.13 L-110-5.14 L-115-5.1 L-115-5.1 L-115-5.4 L-115-5.6 L-125-5.2 L-125-5.3 L-125-5.5 L-125-5.7 L-125-5.8 L-125-5.9 L-125-5.10 | EXCAVATE AND REMOVE EXISTING CONCRETE HAND HOLE  REMOVE EXISTING CONCRETE HAND HOLE LID TO VERIFY SIZE FOR NEW LID  EXCAVATE AND REMOVE EXISTING CONCRETE DUCT MARKER  TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS  L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND  SINGLE-WAY, (1) - 2" CONDUIT, DIRECT BURIED (TEMPORARY CIRCUIT JUMPER SLEEVE)  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED  MULTIPLE-WAY, (6) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (7) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (2) - 2" CONDUIT, SLURRY ENCASED  MULTIPLE-WAY, (1) - 2" CONDUIT, SLURRY ENCA | EA   | 1 2 1 1 1,875 10,505 220 2,360 150 1,500 105 290 120 10 7 1 5 1 4 6 6 5 1 1 2 2 1 5 48 |

CONSULTANT

SUBMITTAL
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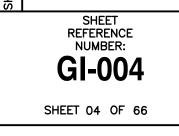
USE ONLY AND MAY NOT BE SHARED WITH
THERS EXCEPT AS REQUIRED TO FULFILL THE
SLIGATIONS OF CONTRACTOR'S CONTRACT WITH
THE CITY OF PHOENIX"

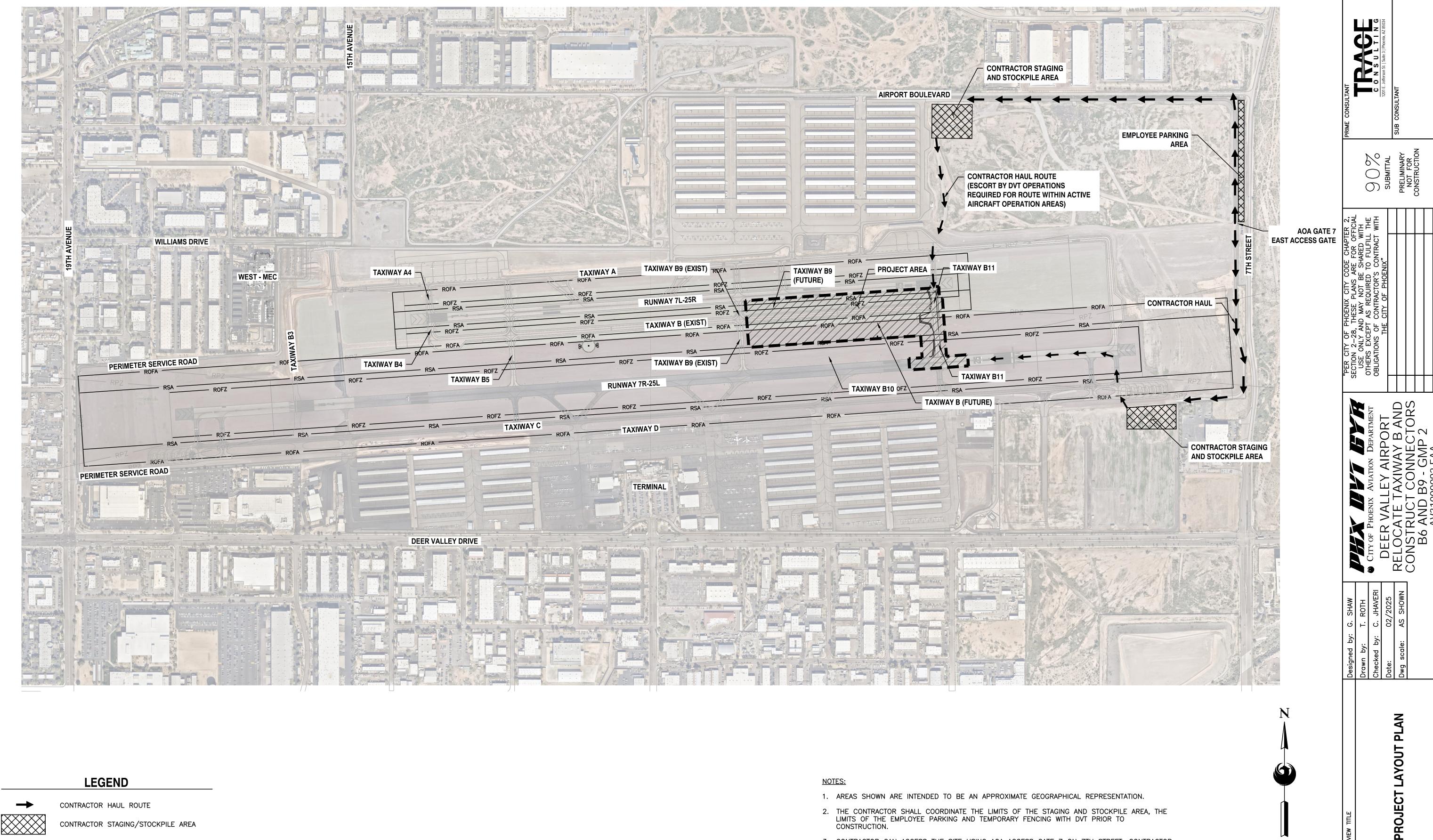
DEER VALLEY AIRPORT
LOCATE TAXIWAY B AND
NSTRUCT CONNECTORS
B6 AND B9 - GMP 2

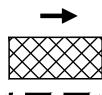
Drawn by: T. ROTH
Checked by: C. JHAVERI
Date: 02/2025
Dwg scale: NTS

QUANTITY SUMMARY





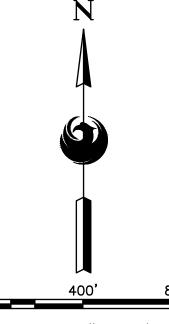




CONTRACTOR HAUL ROUTE

CONTRACTOR STAGING/STOCKPILE AREA

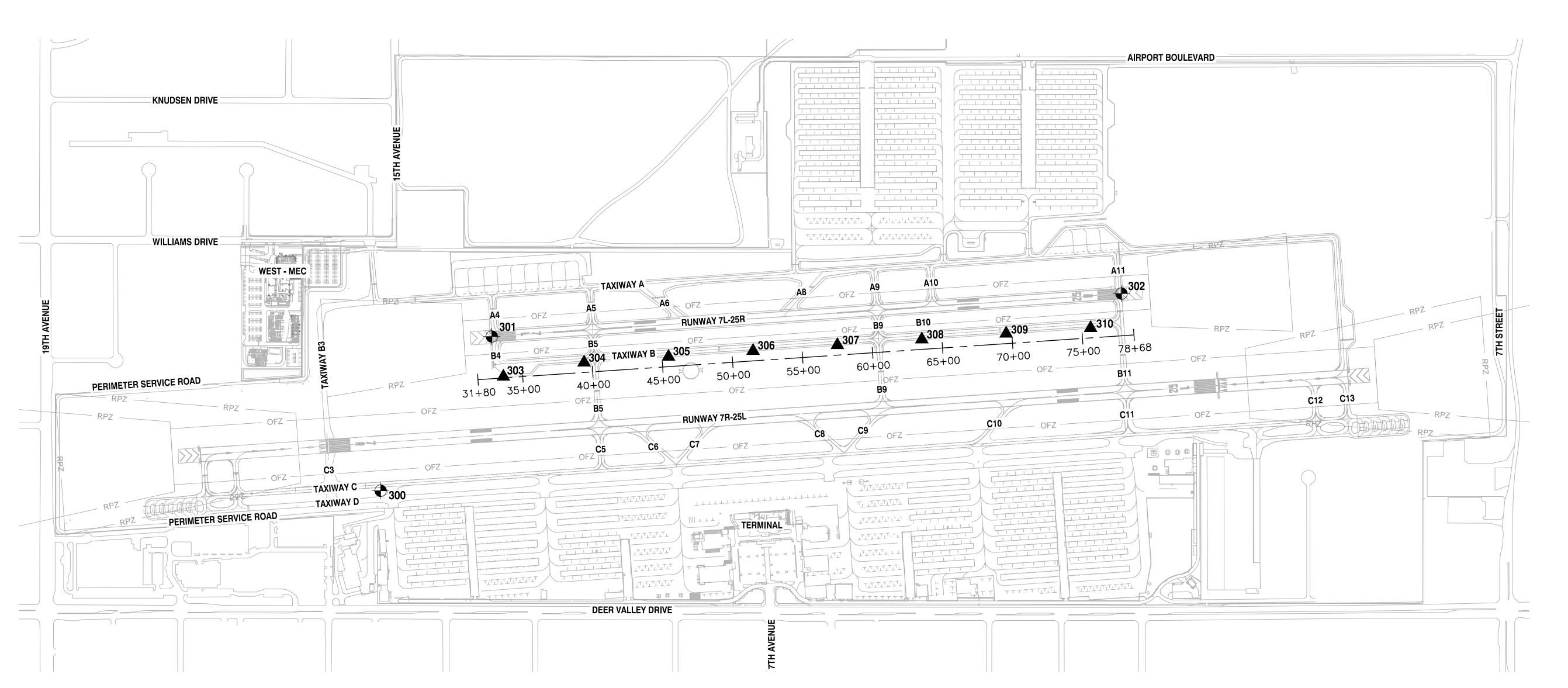
- 2. THE CONTRACTOR SHALL COORDINATE THE LIMITS OF THE STAGING AND STOCKPILE AREA, THE LIMITS OF THE EMPLOYEE PARKING AND TEMPORARY FENCING WITH DVT PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR CAN ACCESS THE SITE USING AOA ACCESS GATE 7 ON 7TH STREET. CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM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



SCALE:1"=400'



SHEET REFERENCE NUMBER: SHEET 05 OF 66



| ▲ SURVEY CONTROL POINTS |           |           |           |             |  |
|-------------------------|-----------|-----------|-----------|-------------|--|
| POINT NO.               | NORTHING  | EASTING   | ELEVATION | DESCRIPTION |  |
| 303                     | 978194.40 | 647631.68 | 1452.51   | SET PK NAIL |  |
| 304                     | 978295.35 | 648207.11 | 1456.16   | SET PK NAIL |  |
| 305                     | 978336.53 | 648808.83 | 1458.99   | SET PK NAIL |  |
| 306                     | 978377.86 | 649411.66 | 1462.26   | SET PK NAIL |  |
| 307                     | 978419.33 | 650012.86 | 1465.15   | SET PK NAIL |  |
| 308                     | 978459.93 | 650614.89 | 1468.18   | SET PK NAIL |  |
| 309                     | 978501.05 | 651216.11 | 1471.17   | SET PK NAIL |  |
| 310                     | 978541.16 | 651818.28 | 1474.07   | SET PK NAIL |  |

| PRIMARY CONTROL POINTS                           |           |           |         |                            |  |  |
|--|-----------|-----------|---------|----------------------------|--|--|
| POINT NO. NORTHING EASTING ELEVATION DESCRIPTION |           |           |         | DESCRIPTION                |  |  |
| 300  | 977381.08 | 646756.34 | 1443.80 | BCF DVT B (SACS)           |  |  |
| 301  | 978480.29 | 647549.01 | 1455.15 | BCF 7L THRESHOLD MONUMENT  |  |  |
| 302  | 978786.48 | 652038.60 | 1477.09 | BCF 25R THRESHOLD MONUMENT |  |  |

#### **LEGEND**

SITE BENCHMARK

BCF BRASS CAP FLUSH

SURVEY CONTROL NOTES

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

A 2 TEMPORARY BENCHMARK

HORIZONTAL DATUM (NAD 83 NORTH AMERICAN DATUM OF 1983)
ALL COORDINATES SHOWN ARE GROUND VALUES BASED ON NAD83

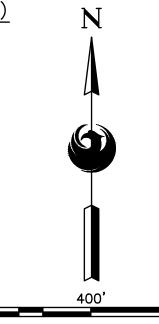
ARIZONA STATE PLANE CENTRAL ZONE GRID COORDINATES SCALED ABOUT 0,0 BY A FACTOR OF 1.00016216.

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

PRIMARY SITE BENCHMARK — DVT B (SACS) POINT #300 A BRASS
CAP FLUSH PER NGS DATA SHEET HAVING AN ELEVATION OF
1443.80 (NAVD88)

#### NOTE:

 THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF COORDINATES AND ELEVATIONS OF BENCHMARKS PRIOR TO CONSTRUCTION.



SCALE:1"=400'



SHEET
REFERENCE
NUMBER:
VF-401
SHEET 06 OF 66

BMITTAL
SUB CONSULTANT
SUB CONSULTANT

SUBMITTAL
SUBMITTAL
PRELIMINARY
NOT FOR
CONSTRUCTION

"PER CITY OF PHOENIX CITY CODE CHAPTER SECTION 2–28, THESE PLANS ARE FOR OFFICI.

USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THOBLIGATIONS OF CONTRACTOR'S CONTRACT WITH CITY OF PHOENIX"

CITY OF PHOENIX AVIATION DEPARTMENT

DEER VALLEY AIRPORT

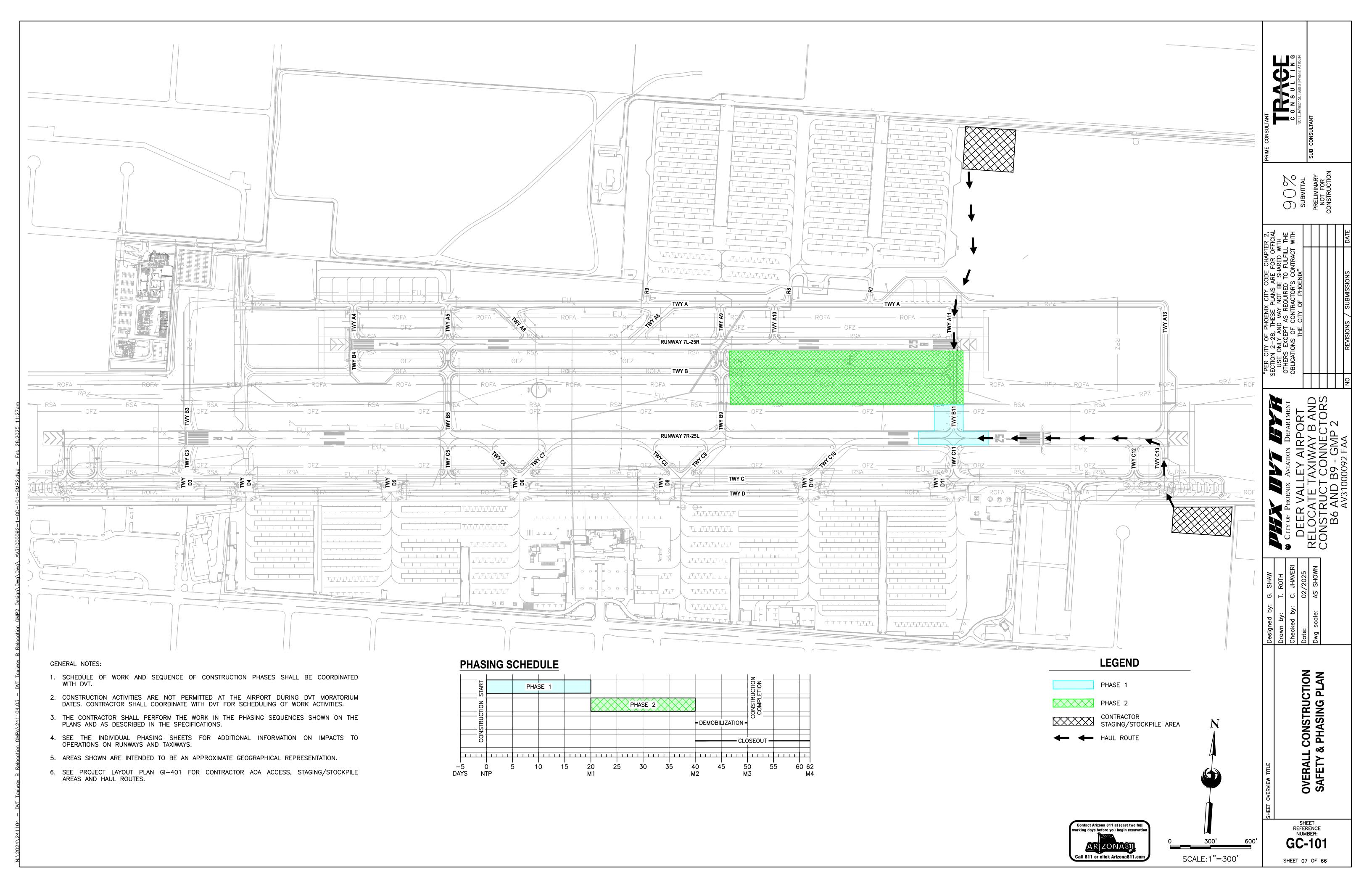
RELOCATE TAXIWAY B AN

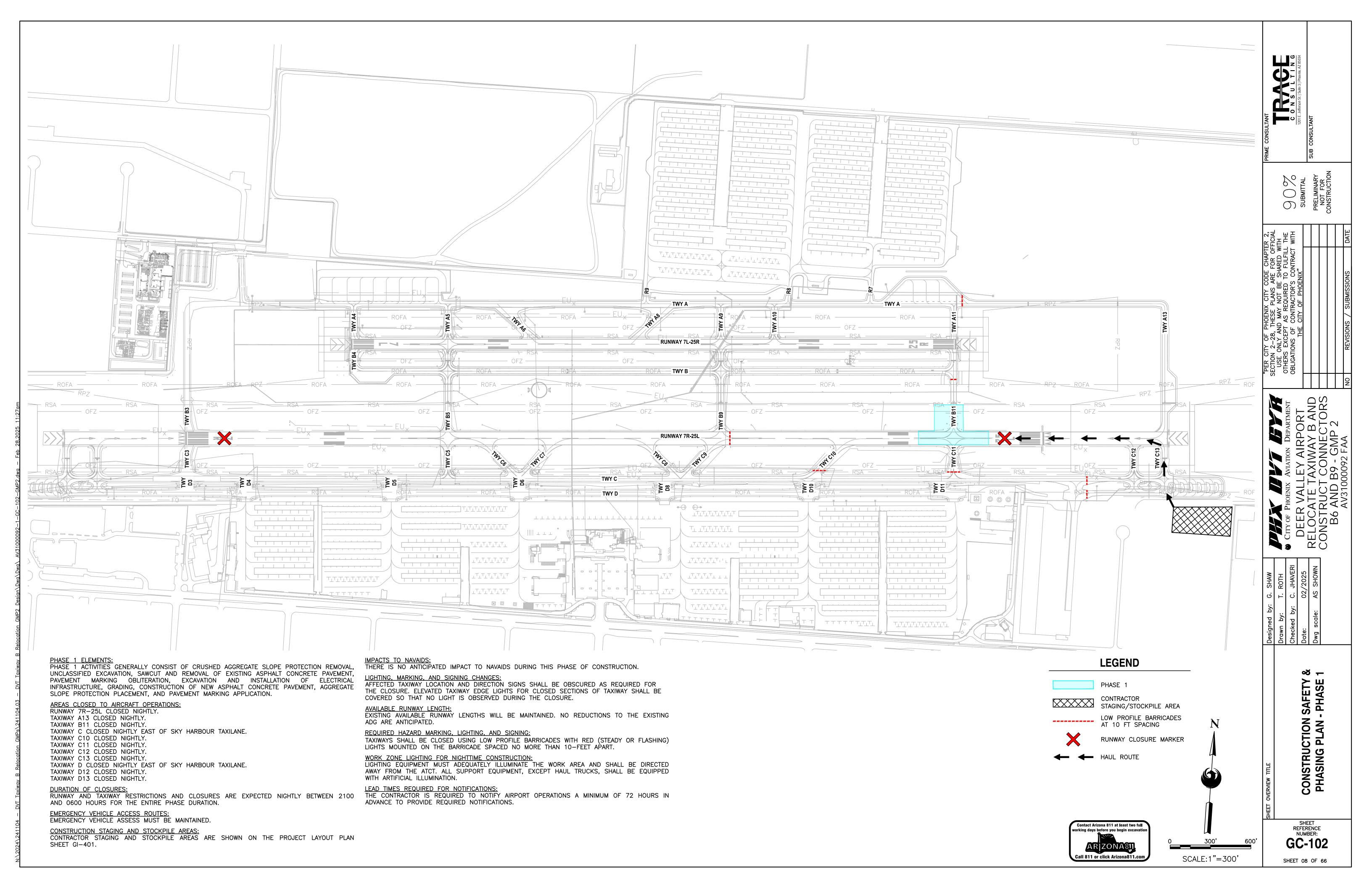
CONSTRUCT CONNECTOF

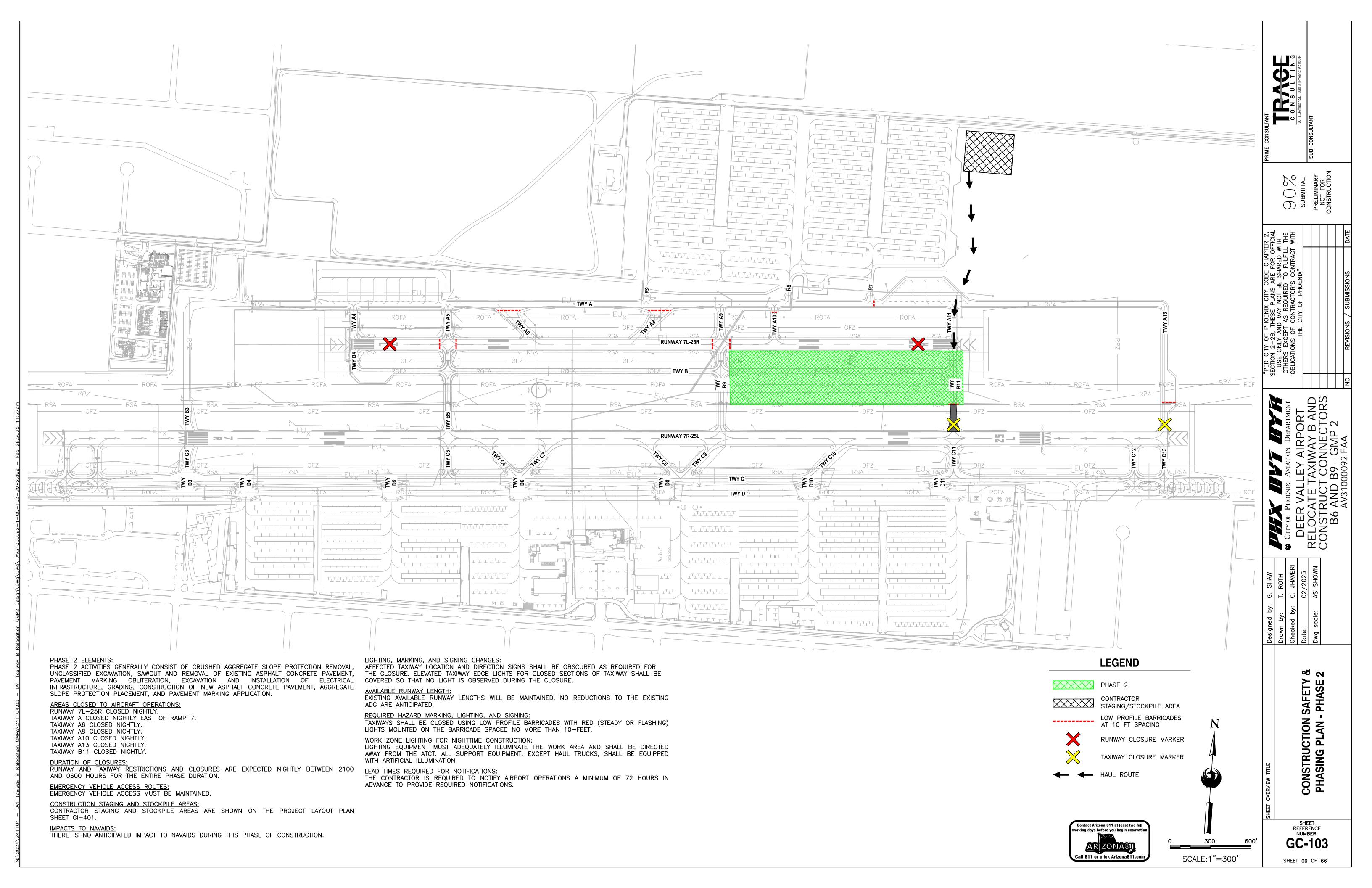
B6 AND B9 - GMP 2

Drawn by: T. ROTH
Checked by: C. JHAVERI
Date: 02/2025
Dwg scale: AS SHOWN

SURVEY CONTROL PLAN







CONSTRUCTION PHASING DETAILS

SHEET REFERENCE NUMBER: GC-501 SHEET 10 OF 66

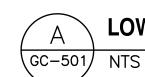
Call 811 or click Arizona811.co

BARRICADES AND THEIR PLACEMENT SHALL MEET THE REQUIREMENTS OF FAA AC 150/5370-2G OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

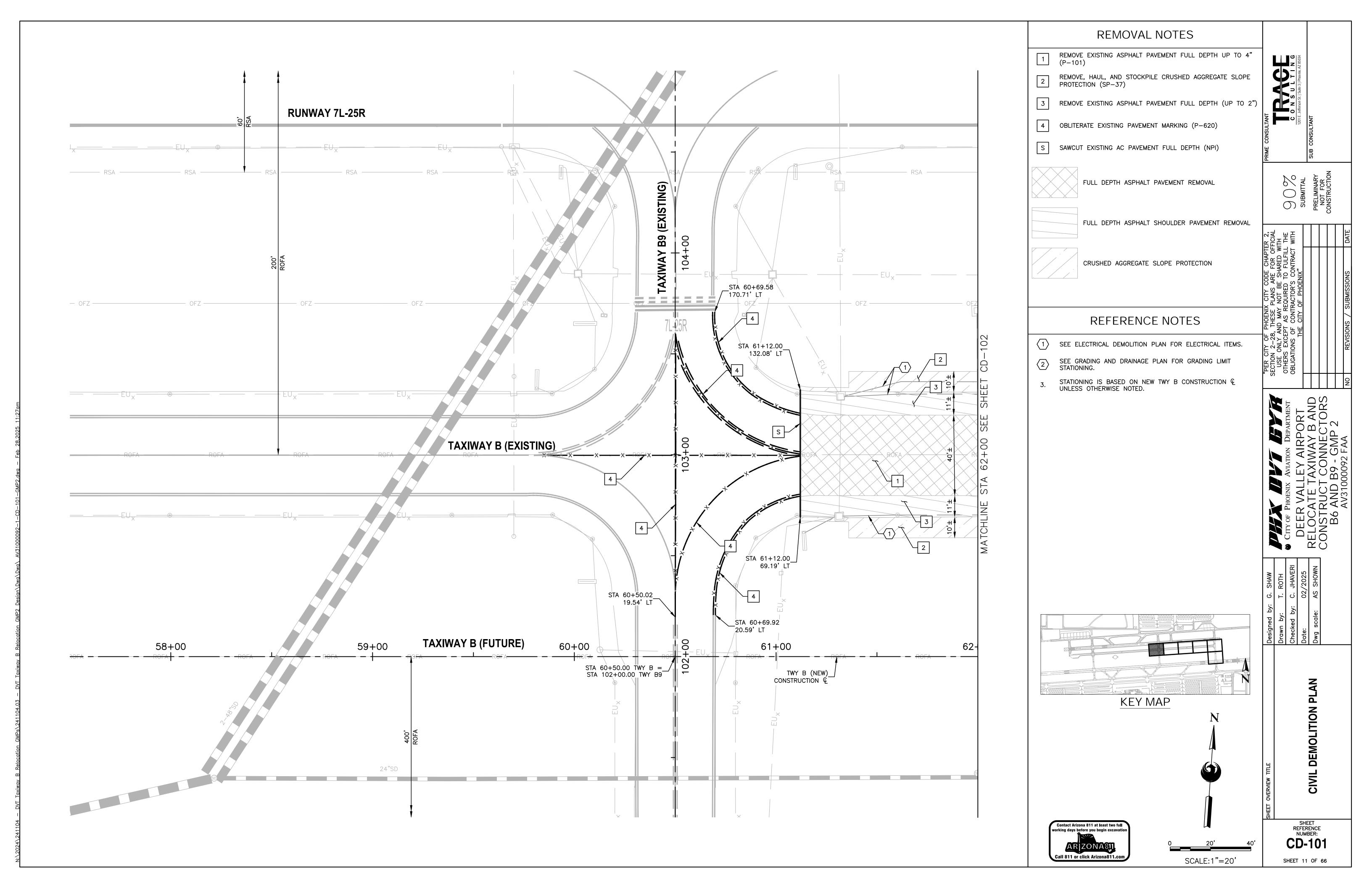
VERTICAL PANEL BARRICADE (FLASHING RED LIGHT) GC-501 NTS

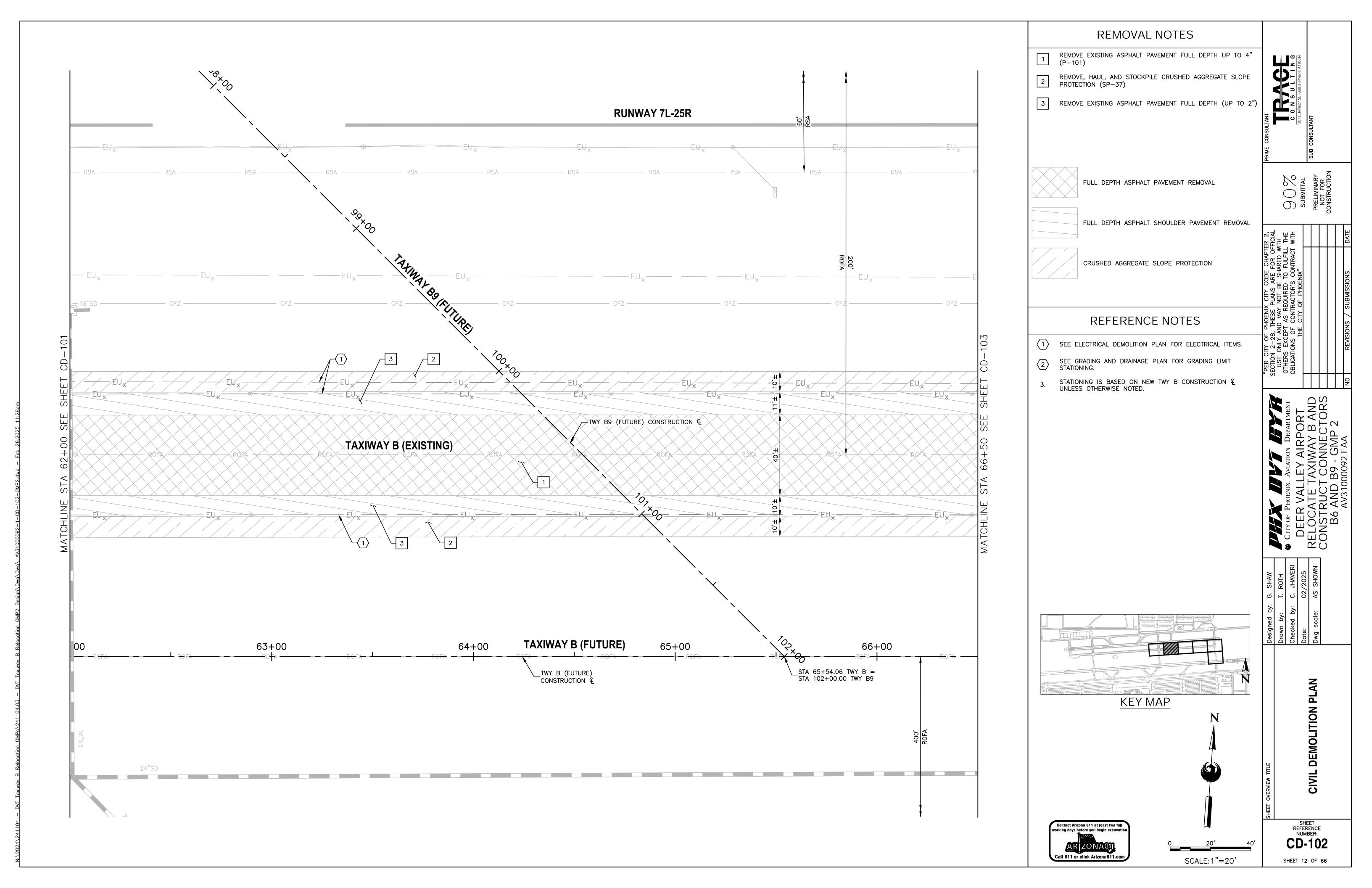


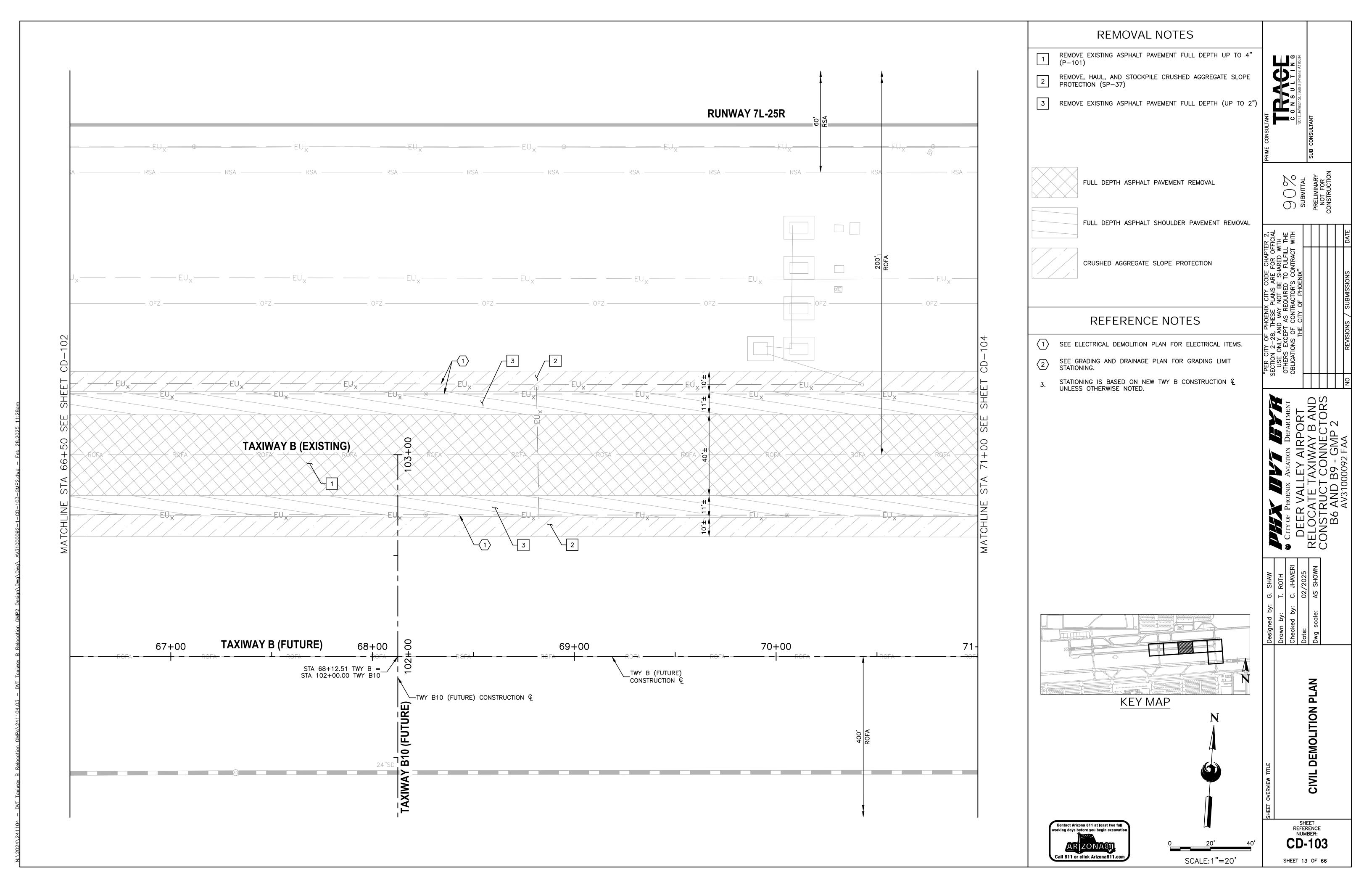
BARRICADES AND THEIR PLACEMENT SHALL MEET THE REQUIREMENTS OF FAA AC 150/5370-2G OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

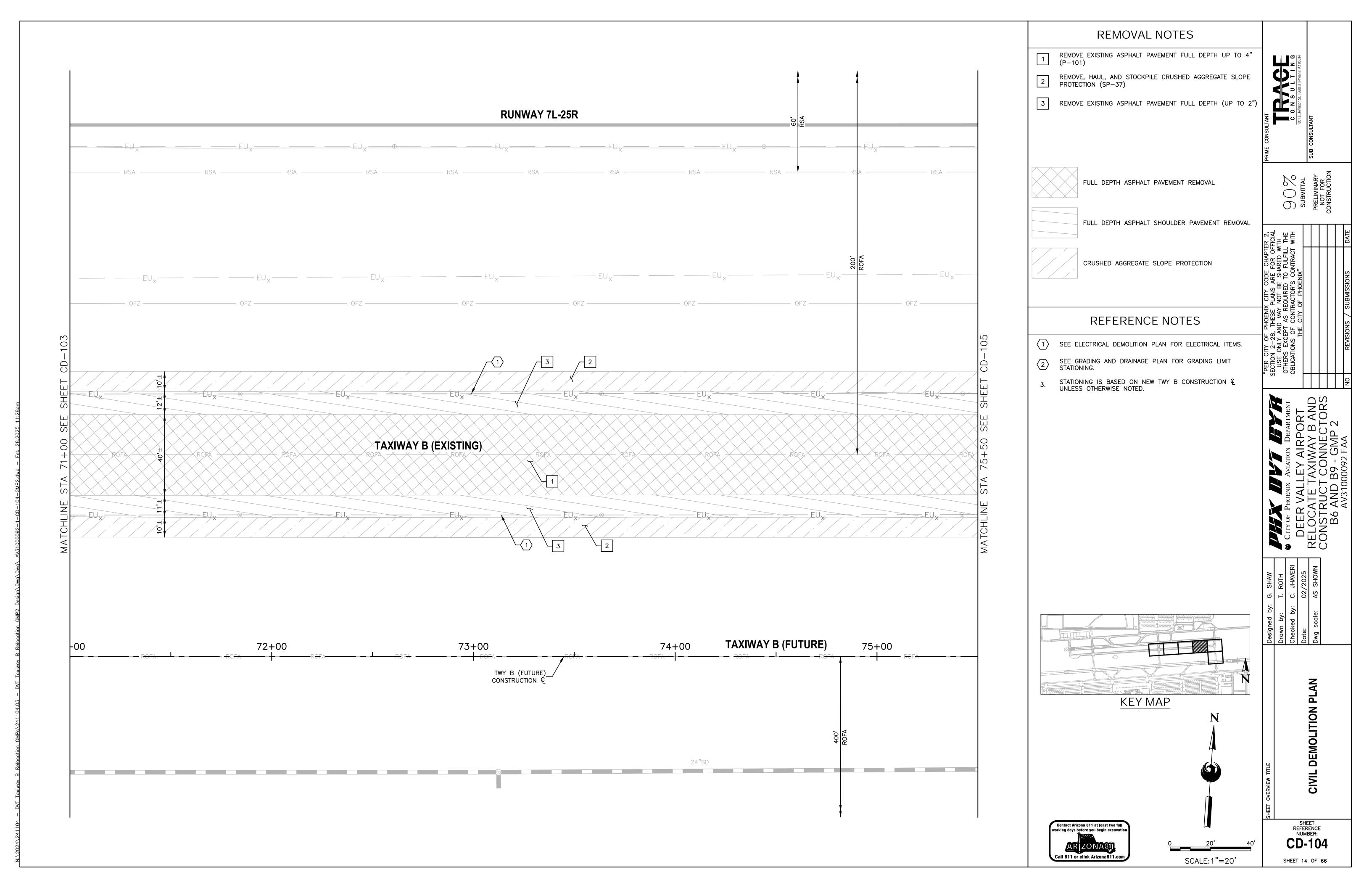


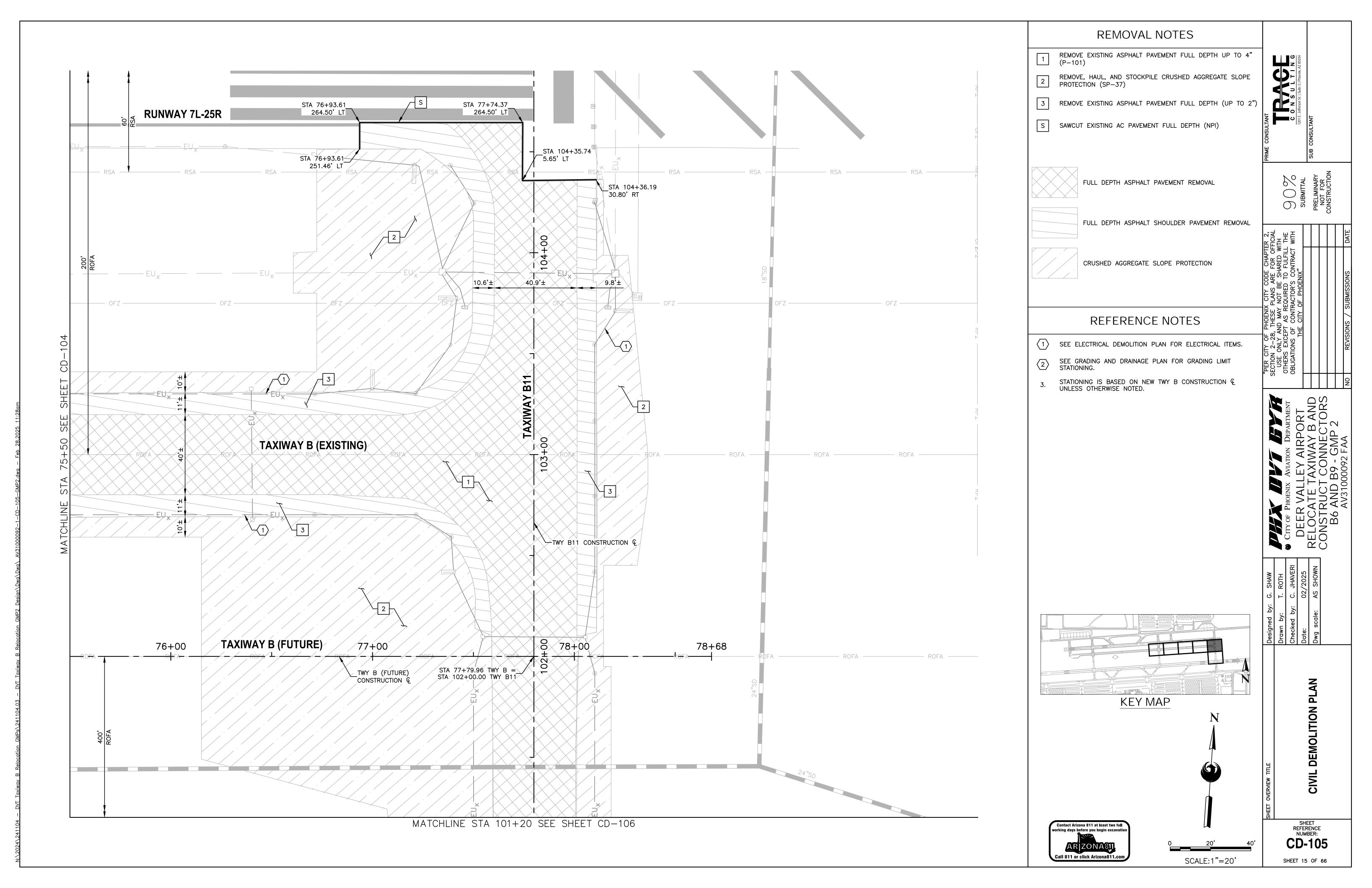
LOW PROFILE BARRICADE - TYPE 1 (TWO FLASHING RED LIGHTS)

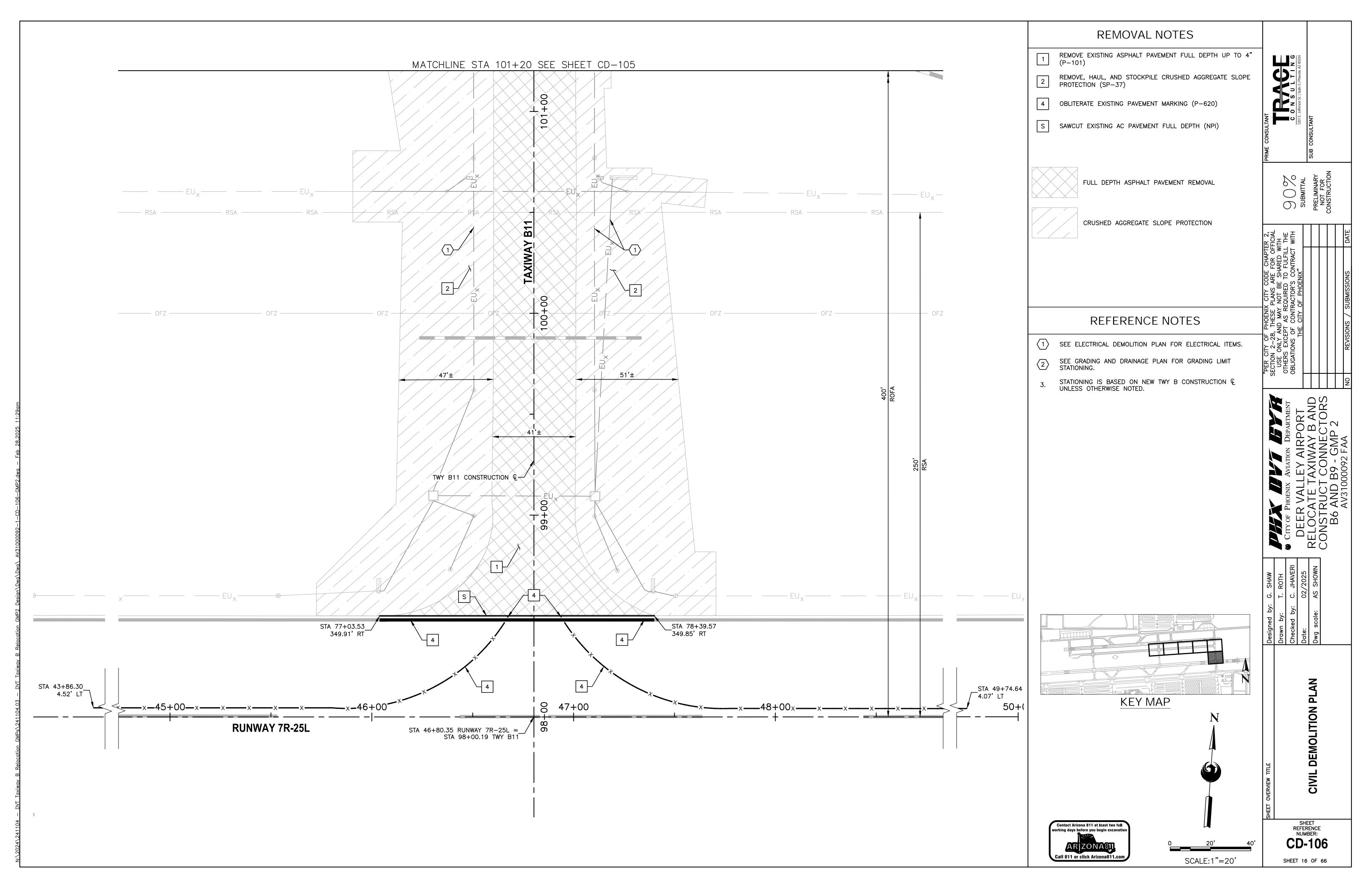


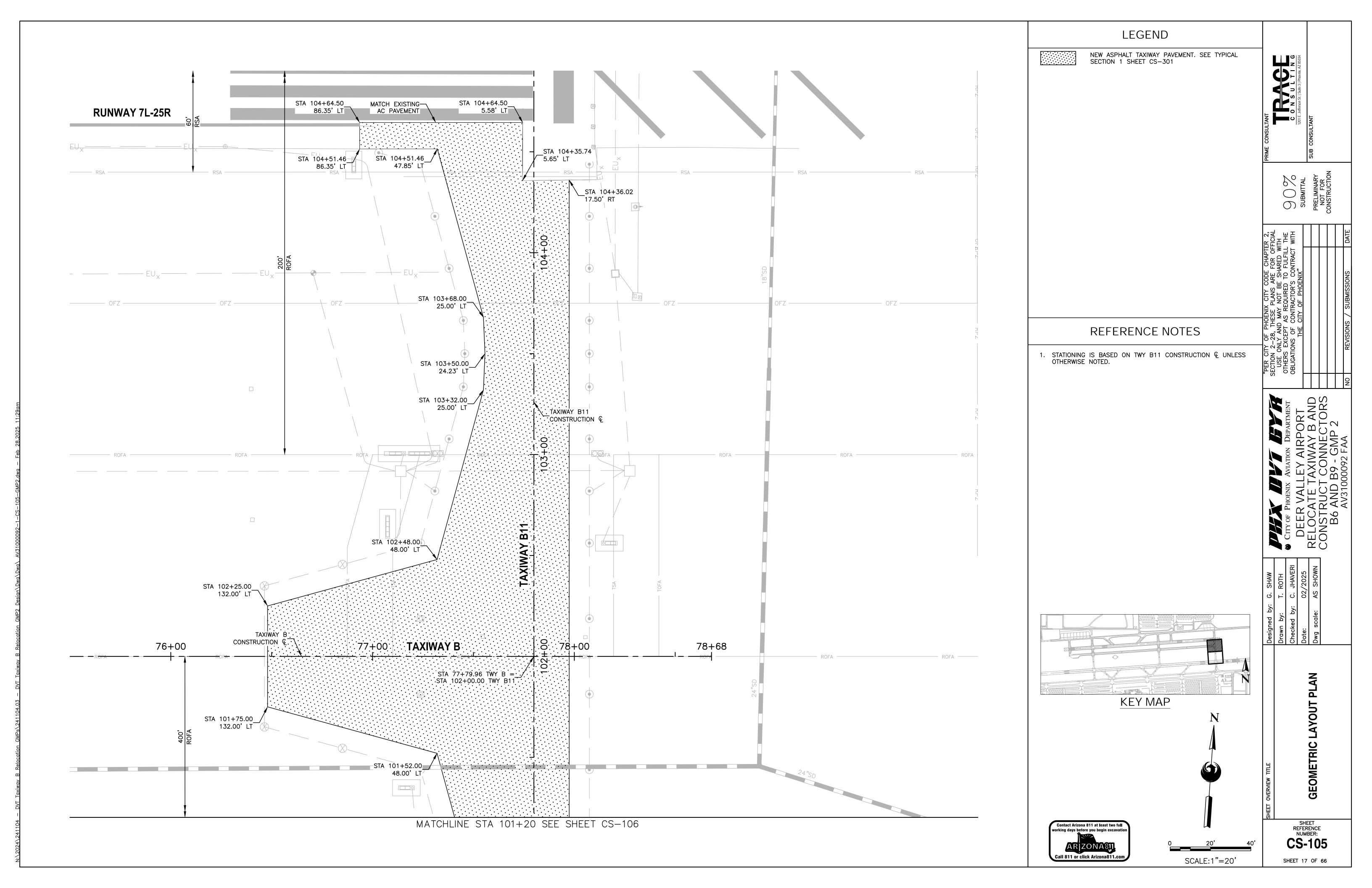


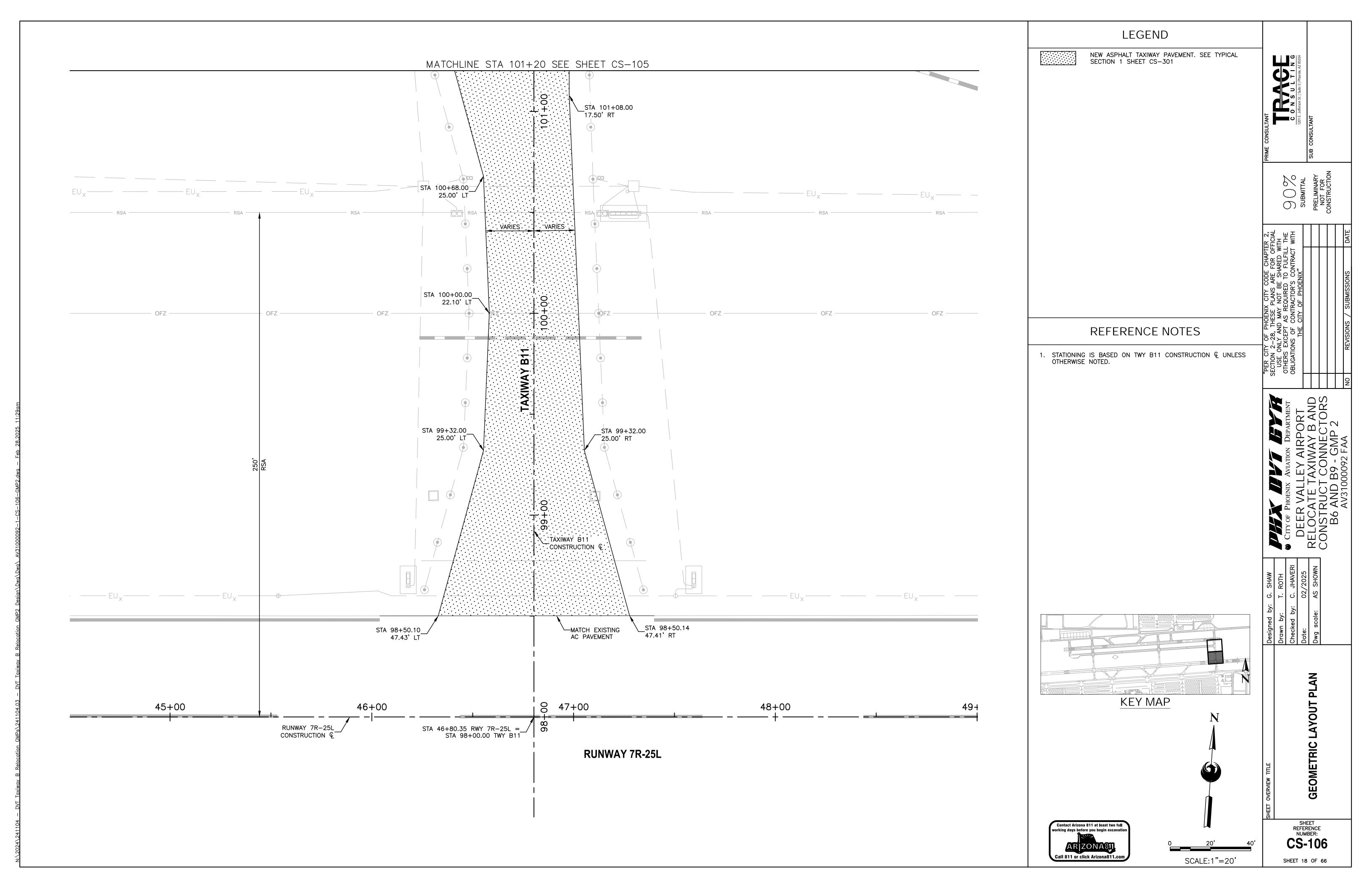


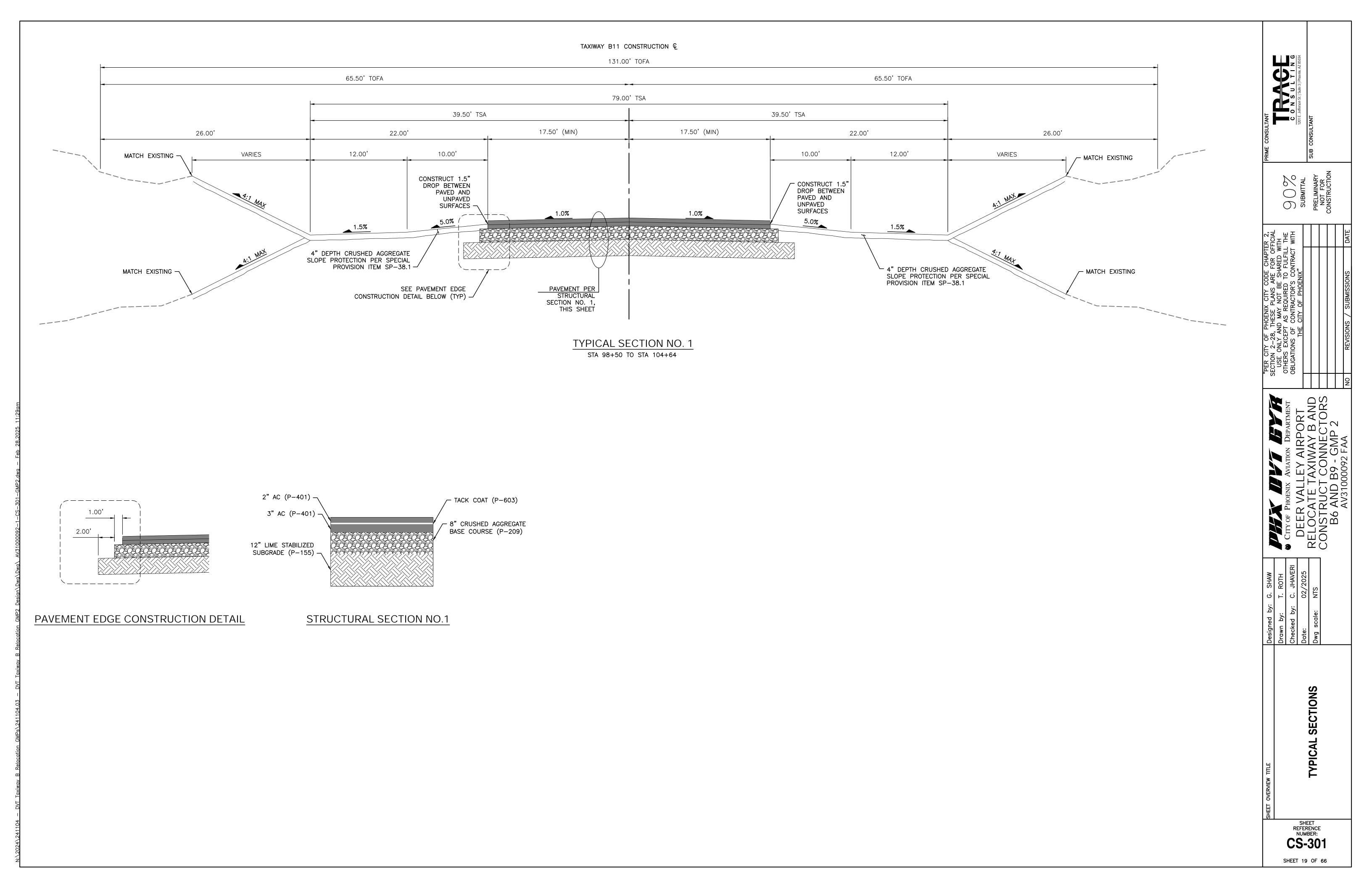


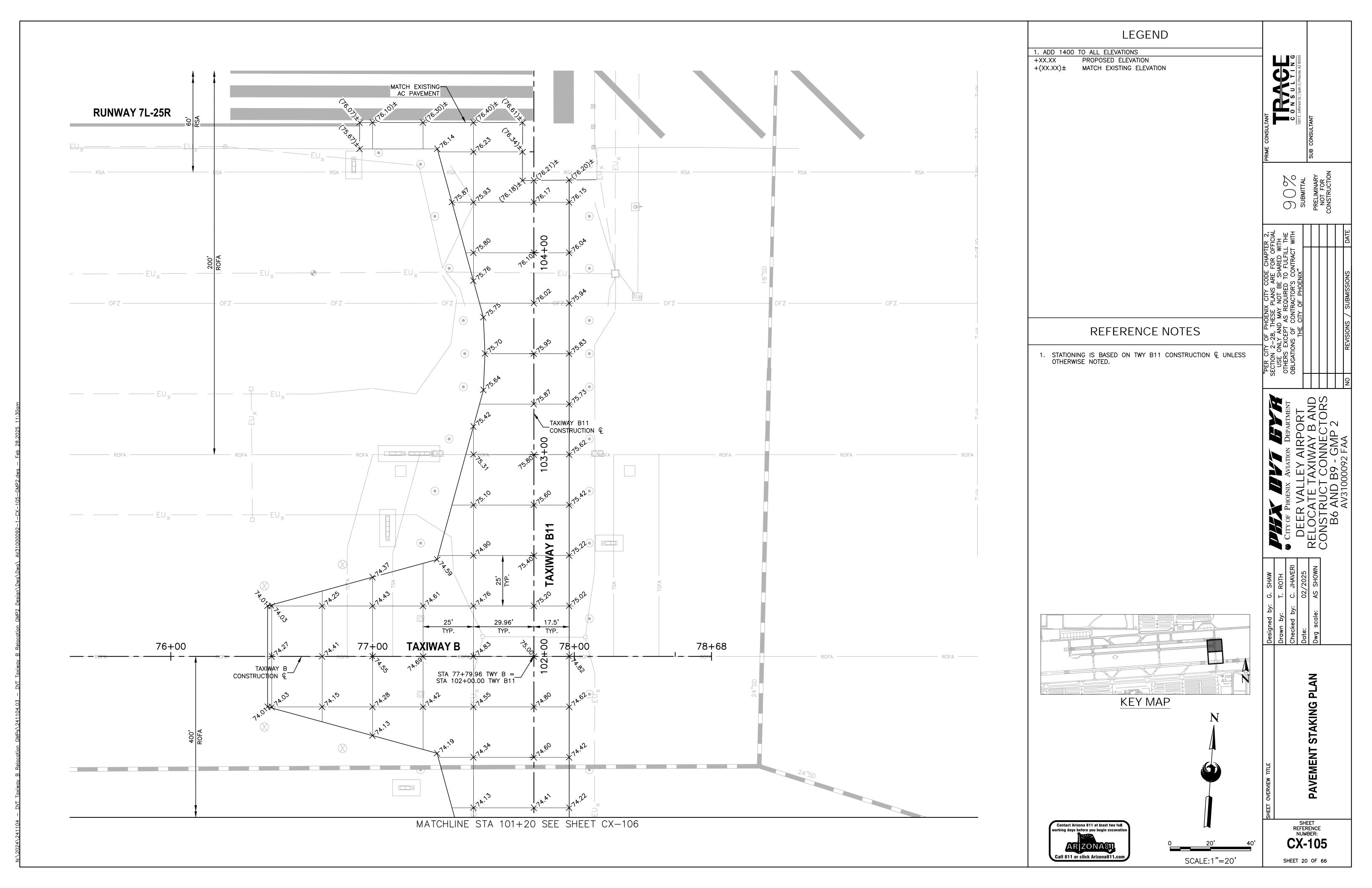


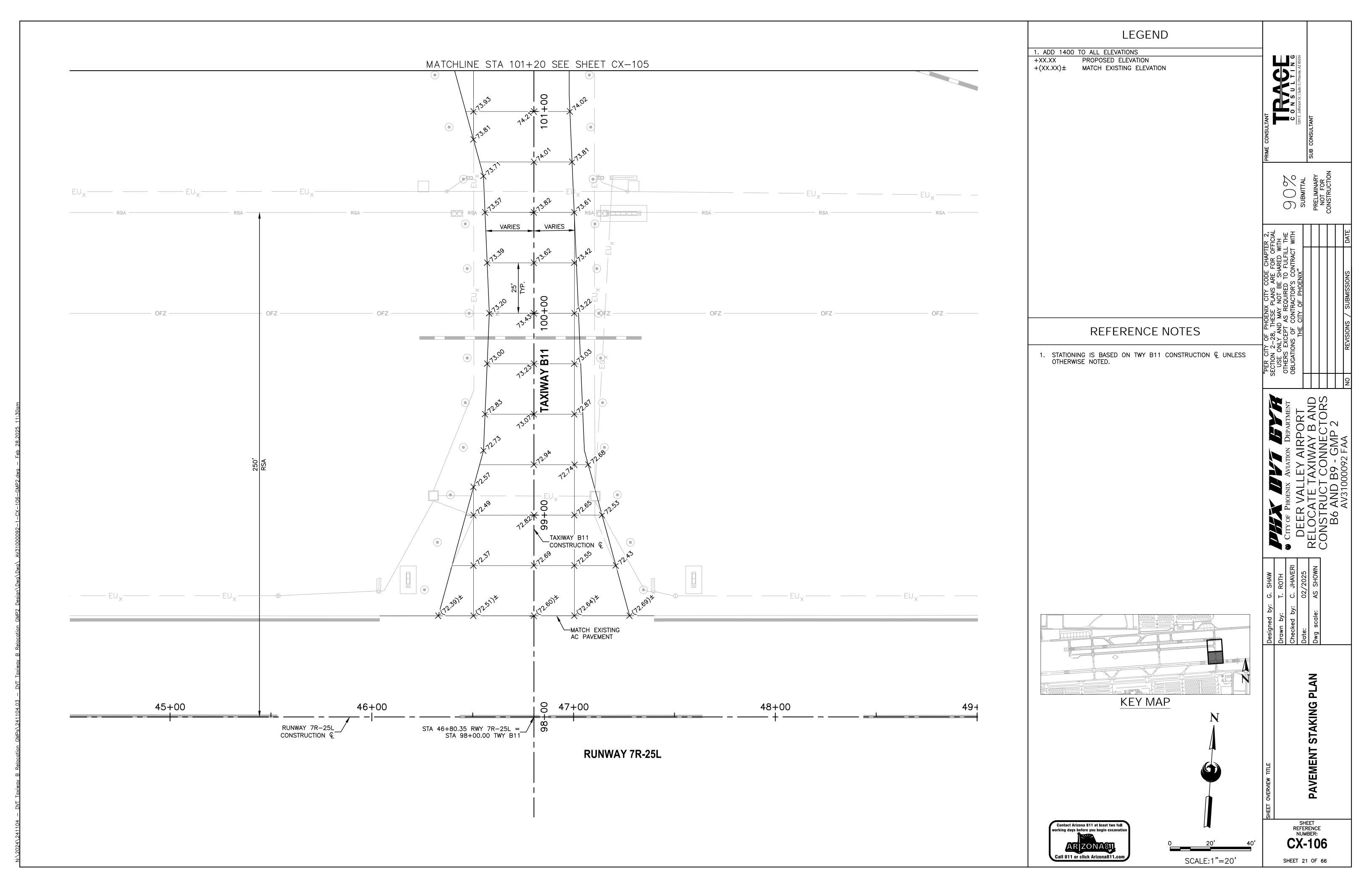


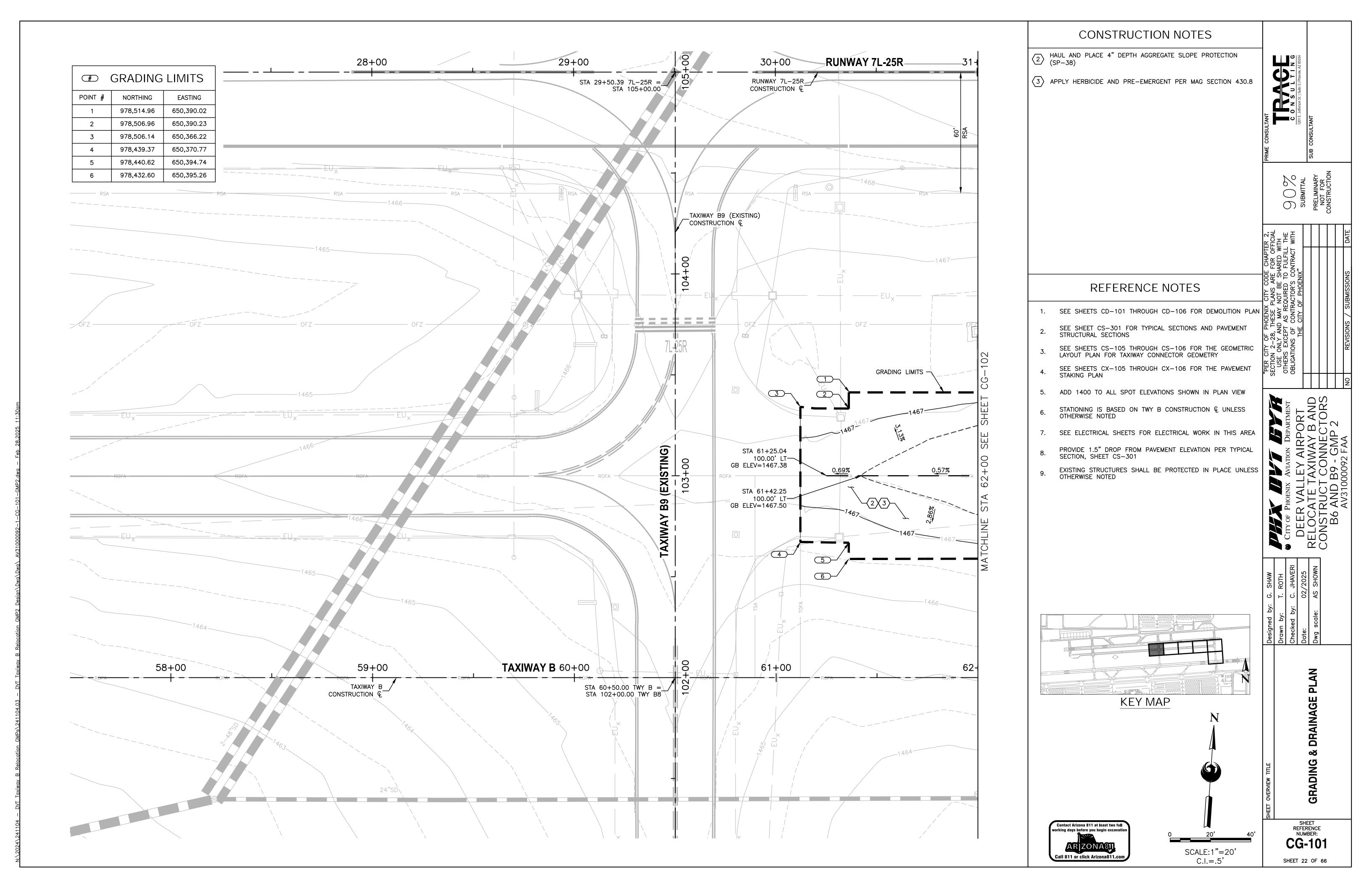


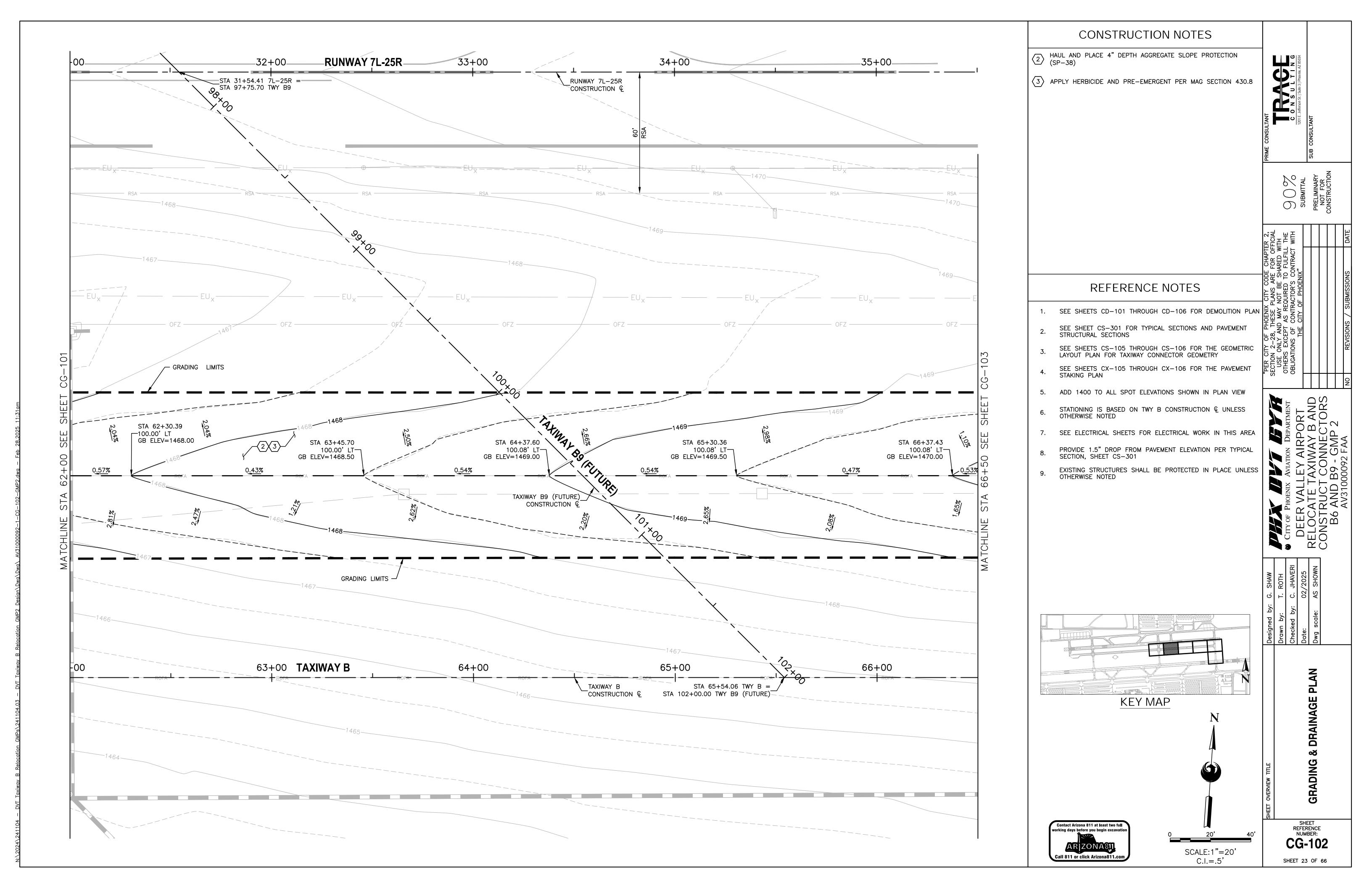


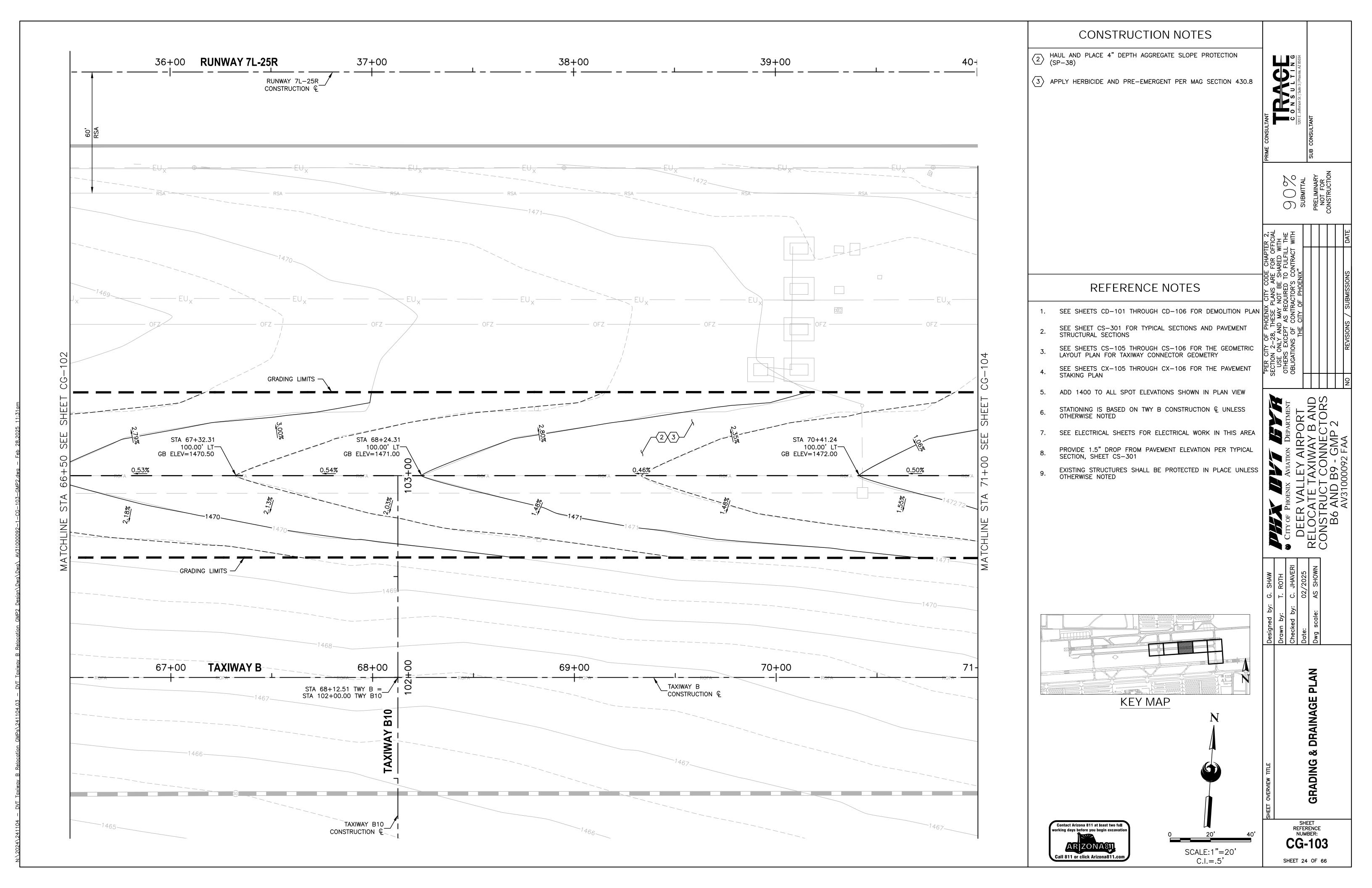


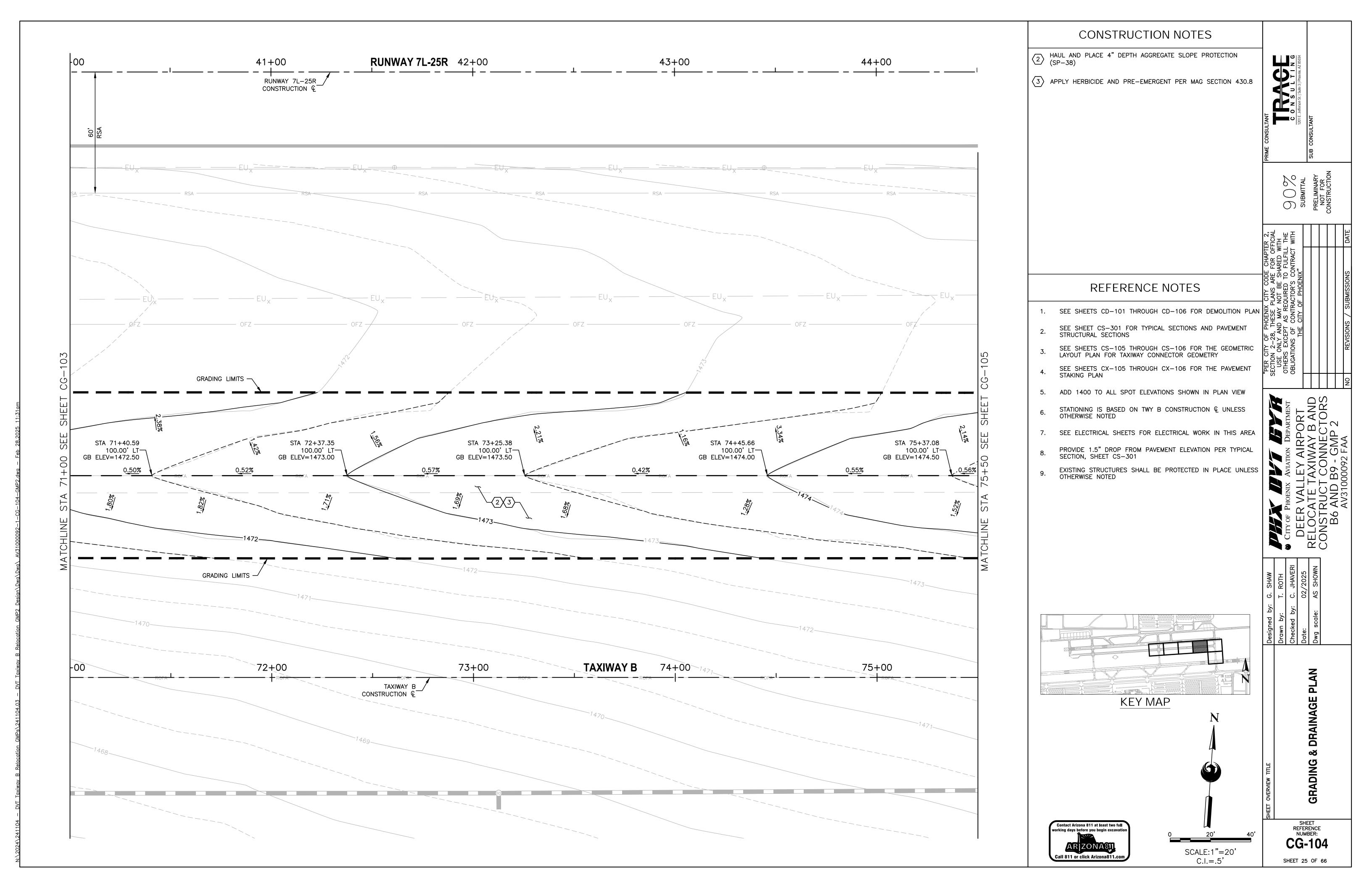


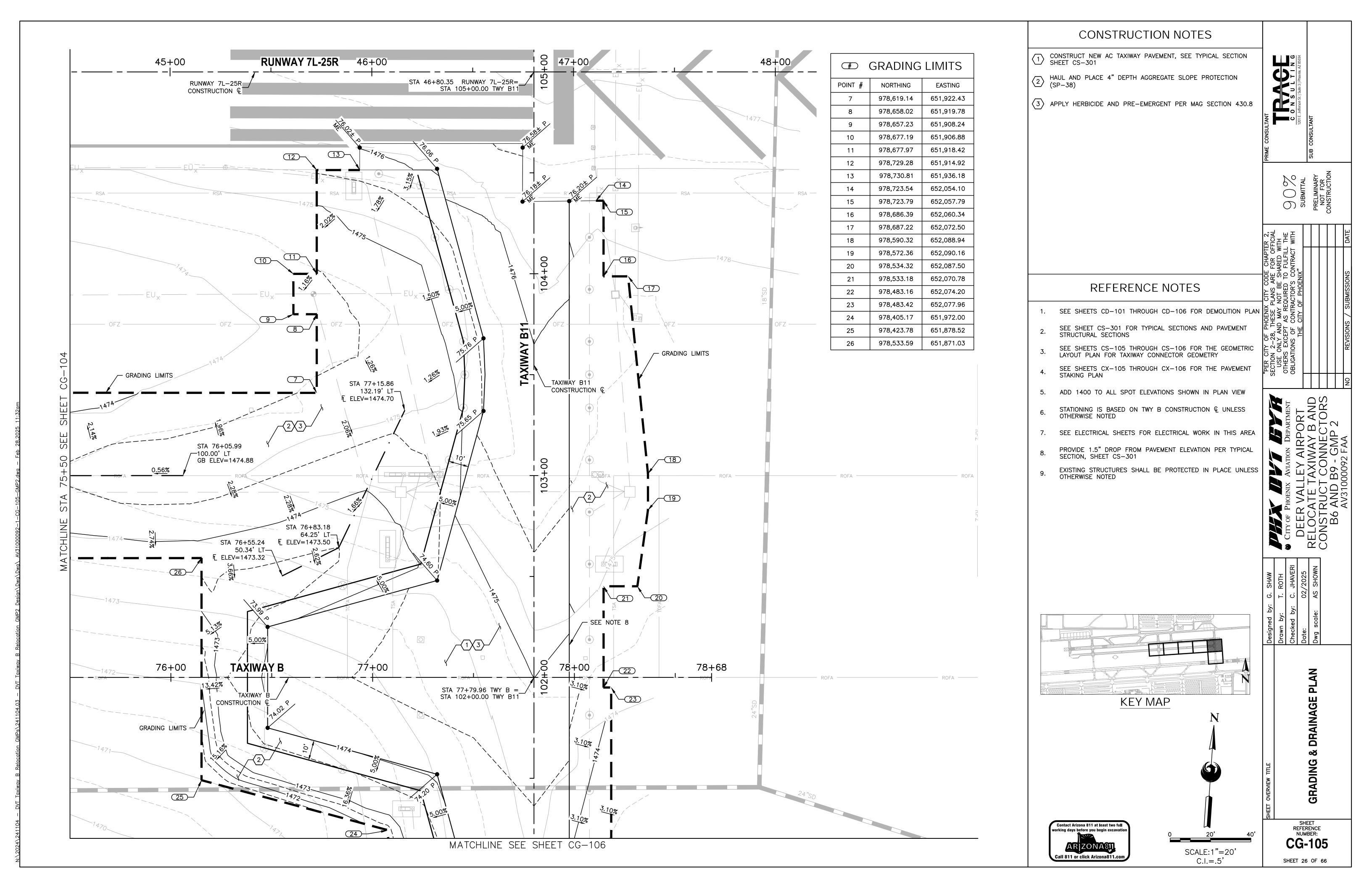


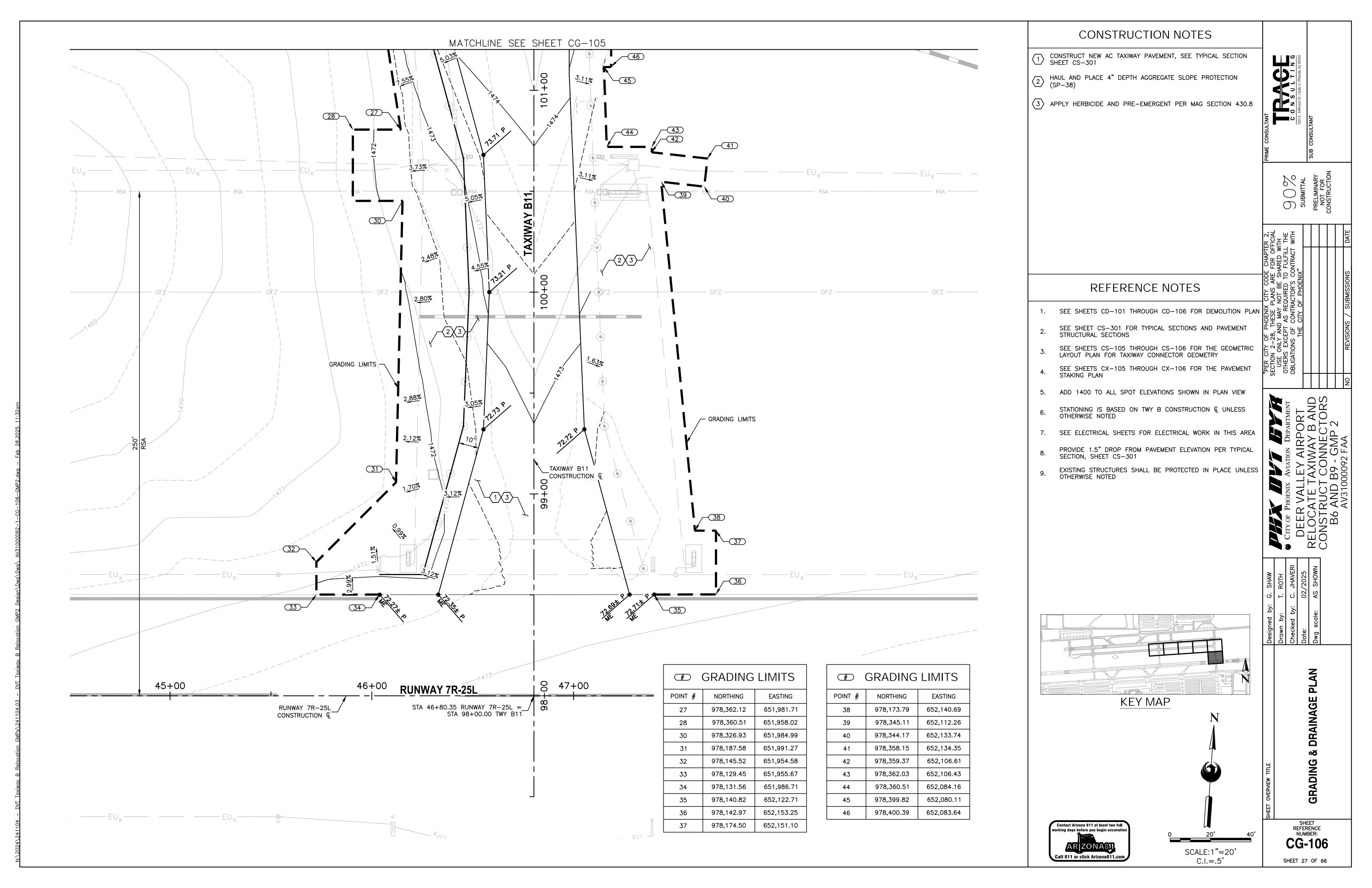


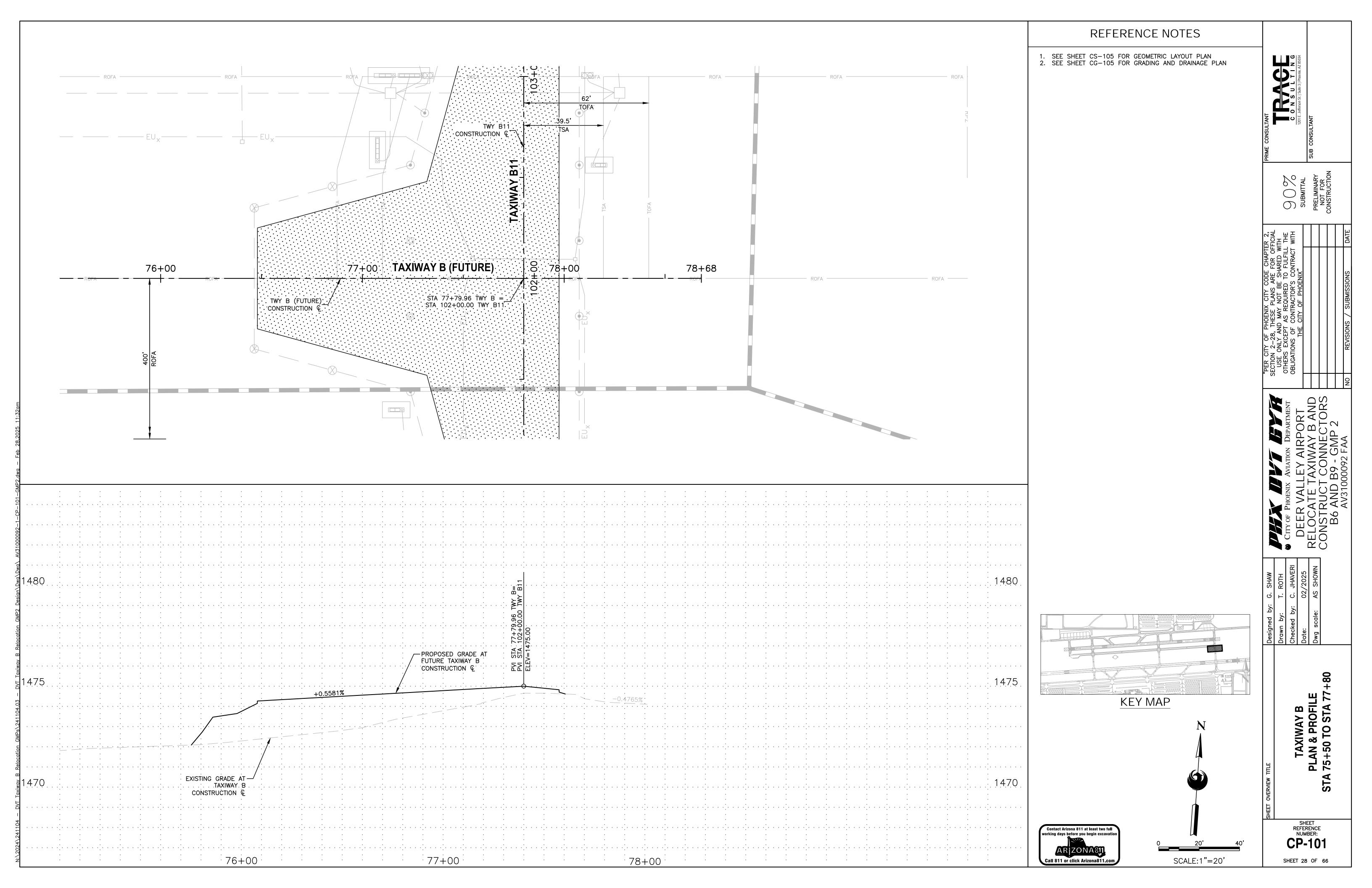


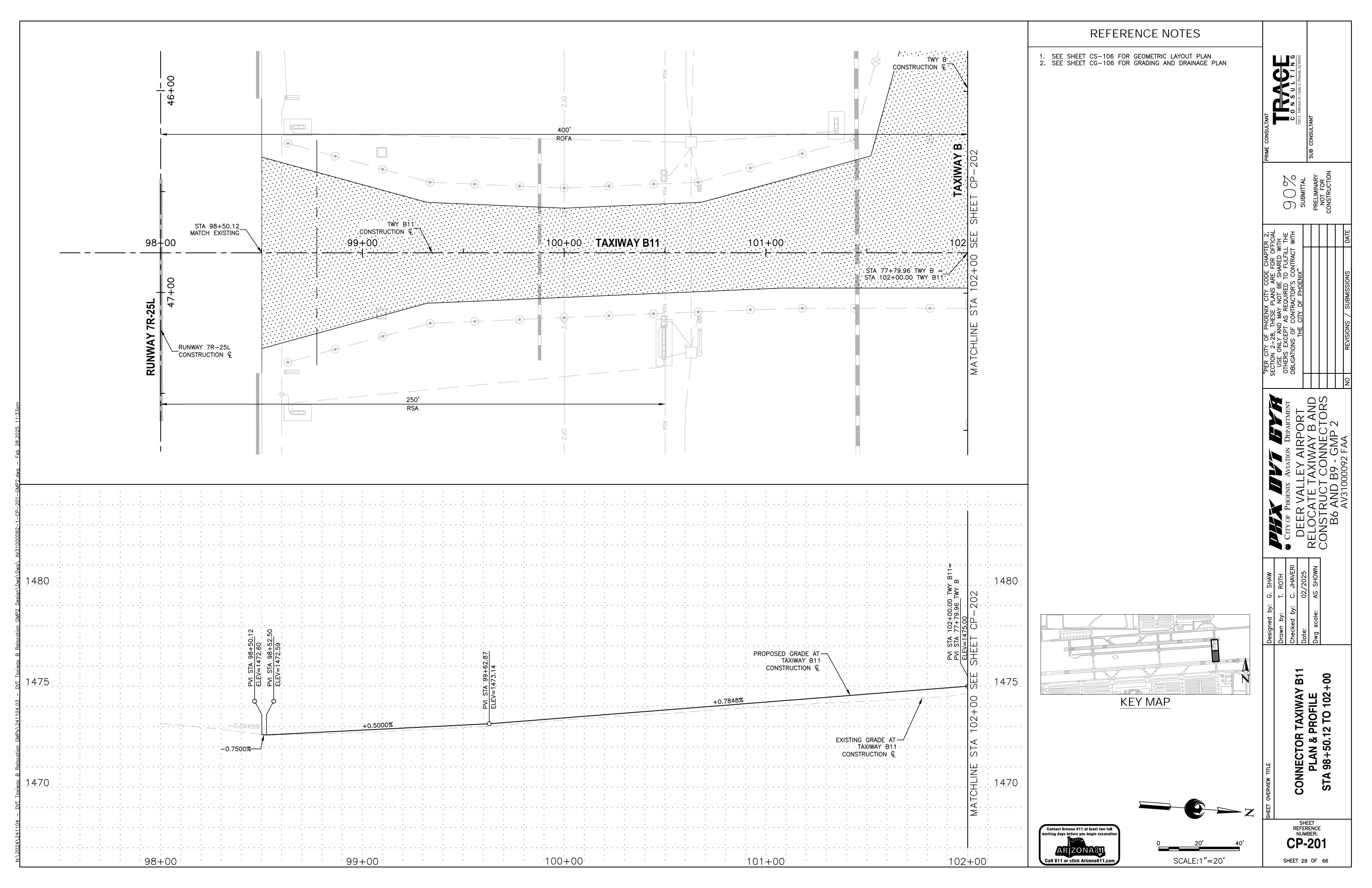


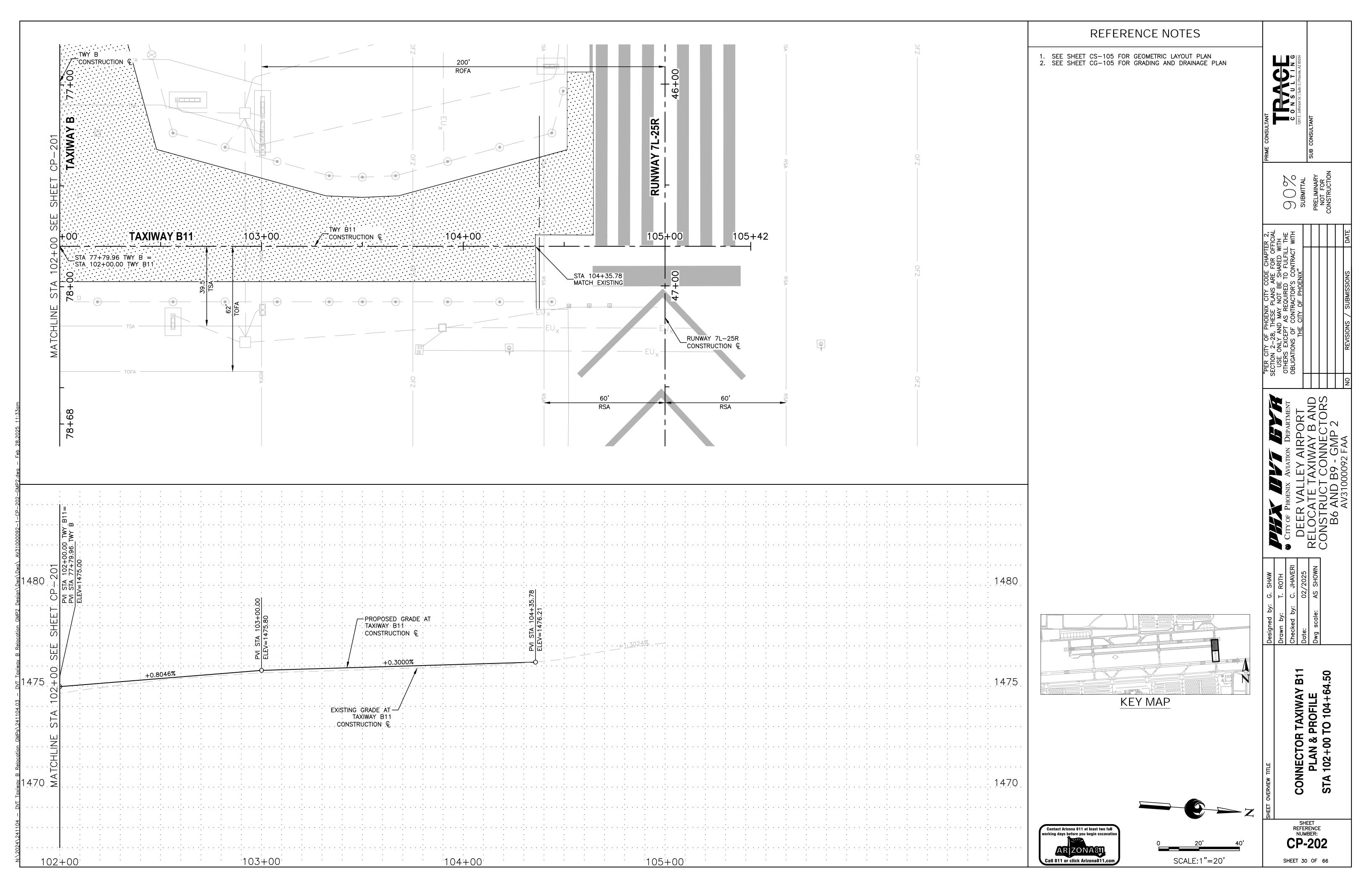


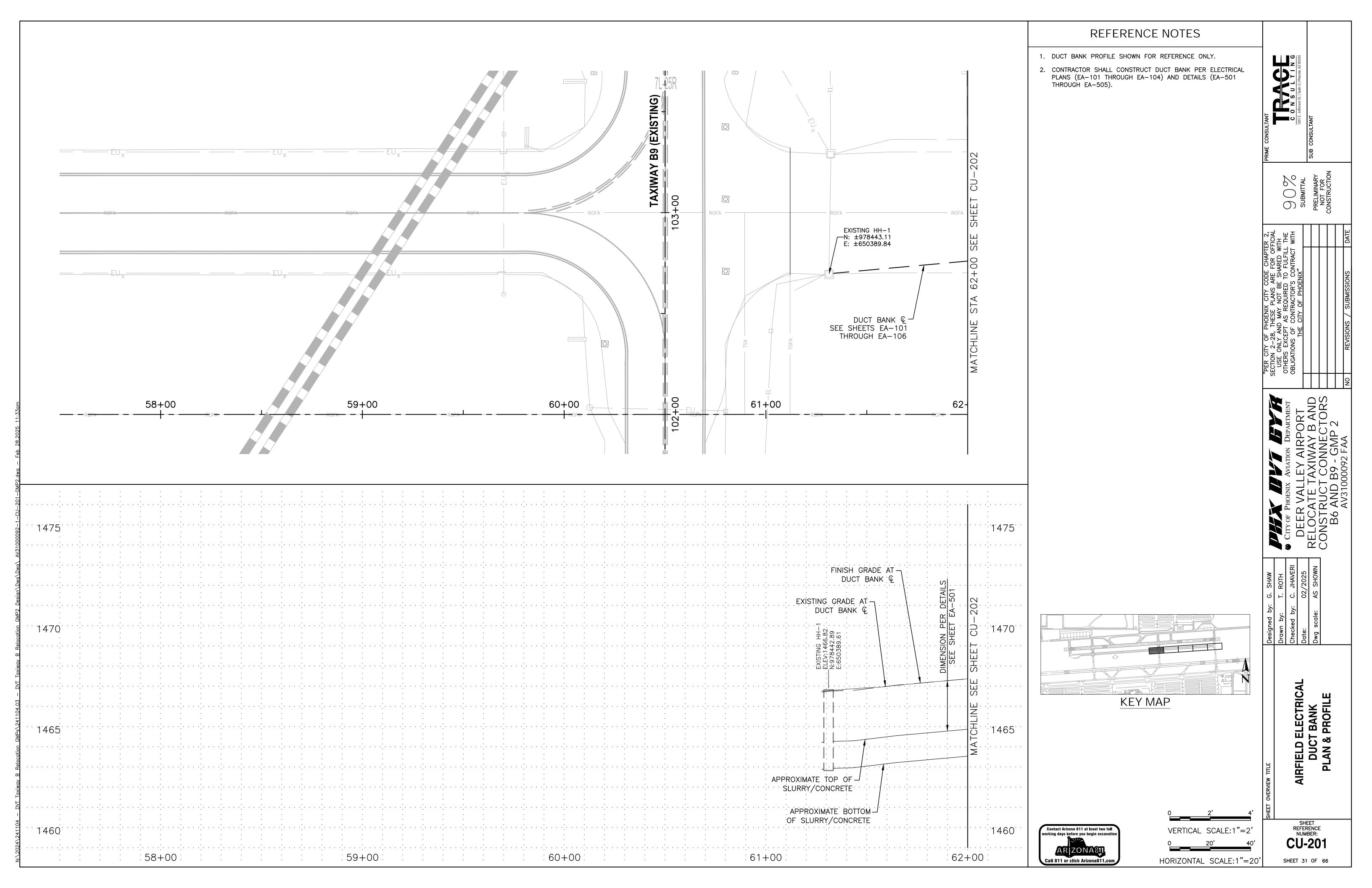


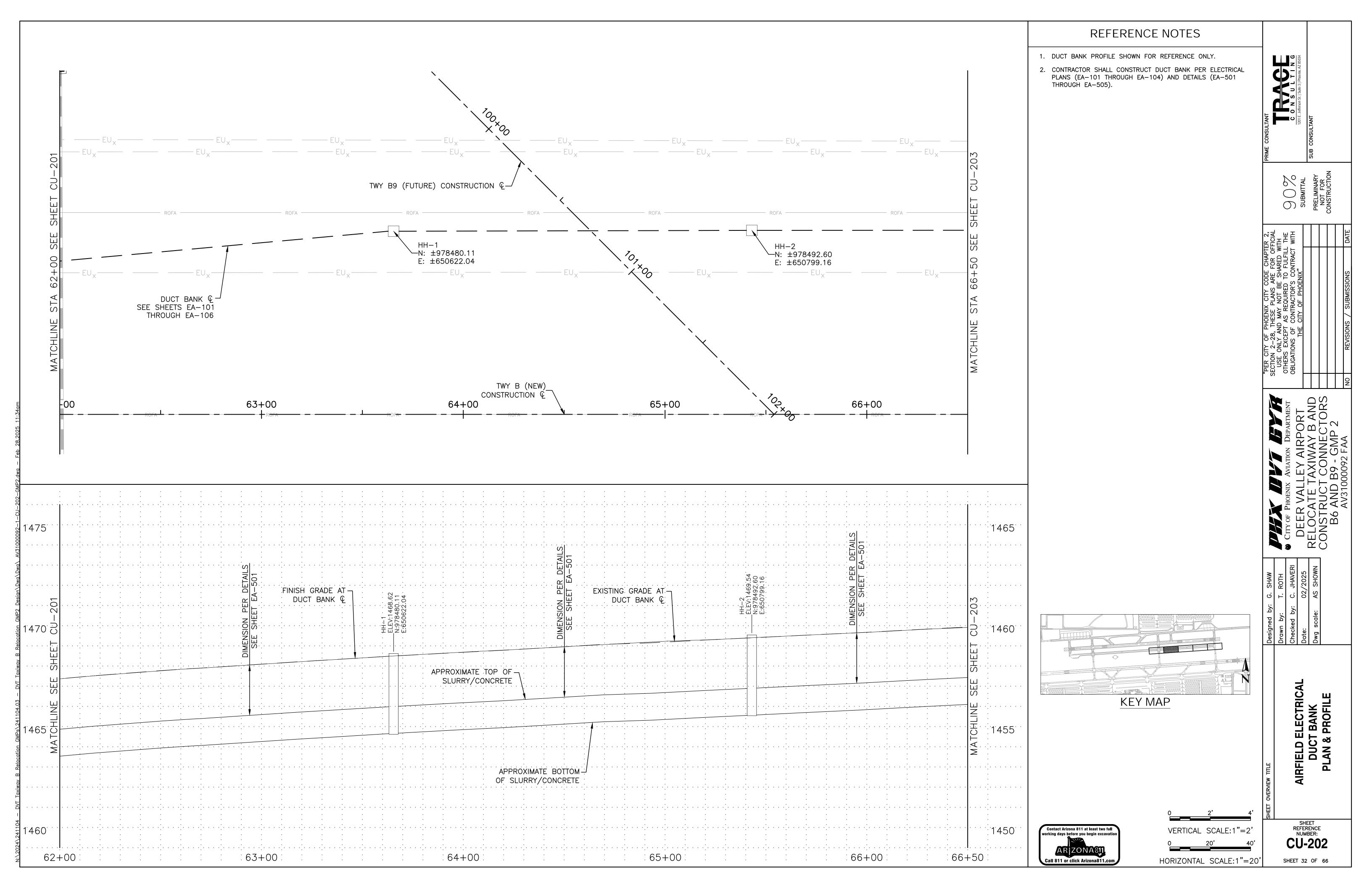


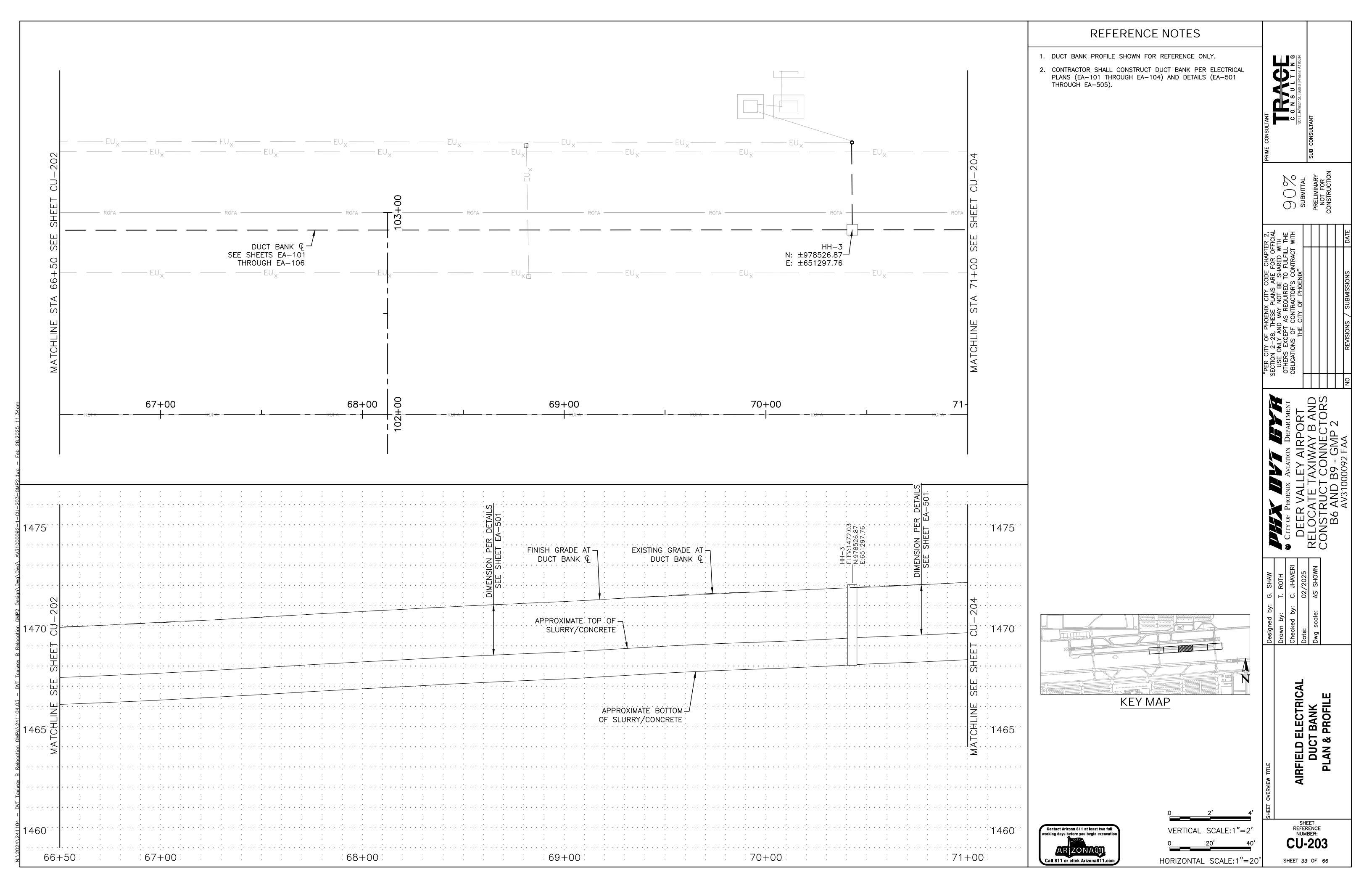


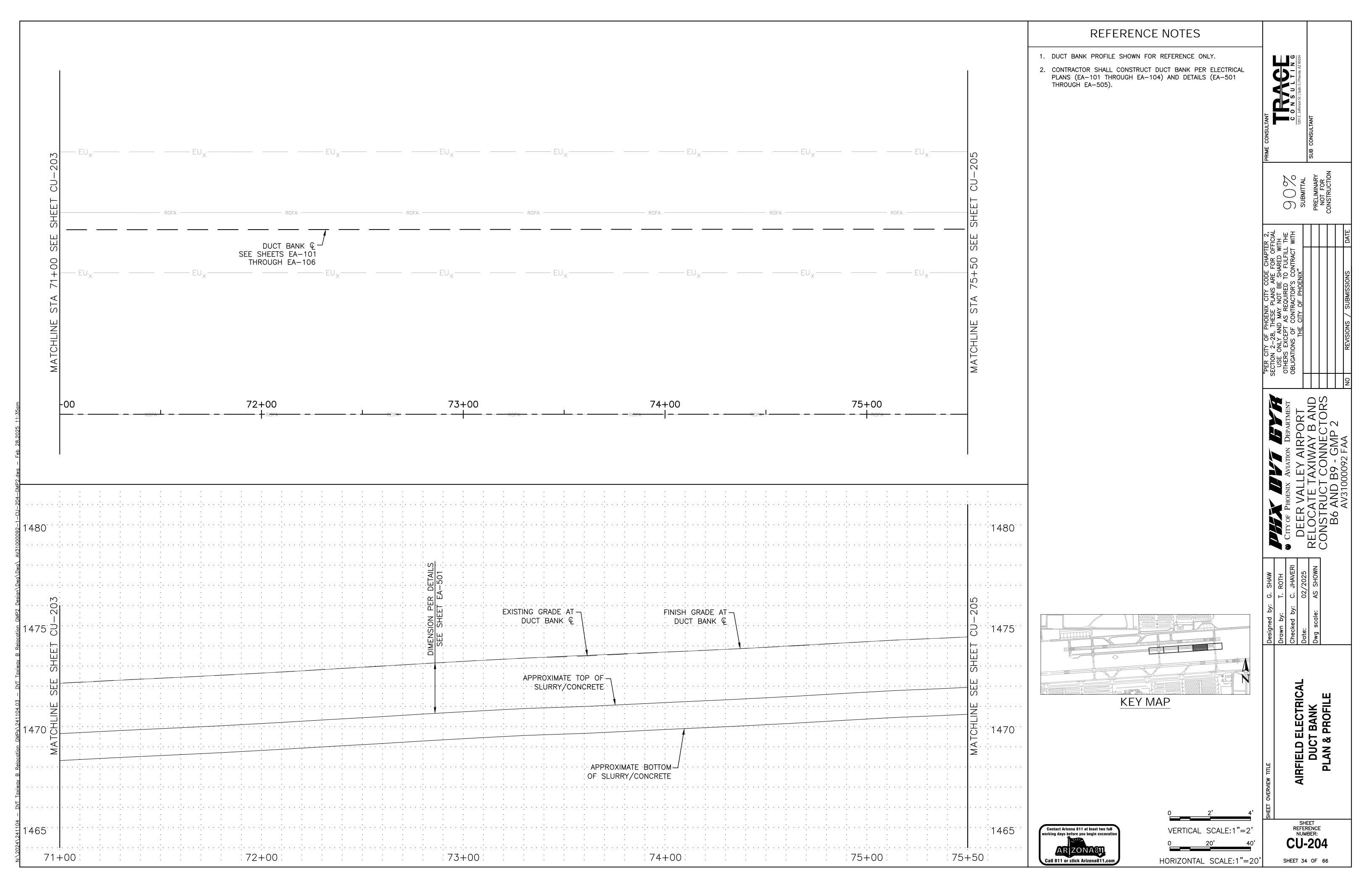


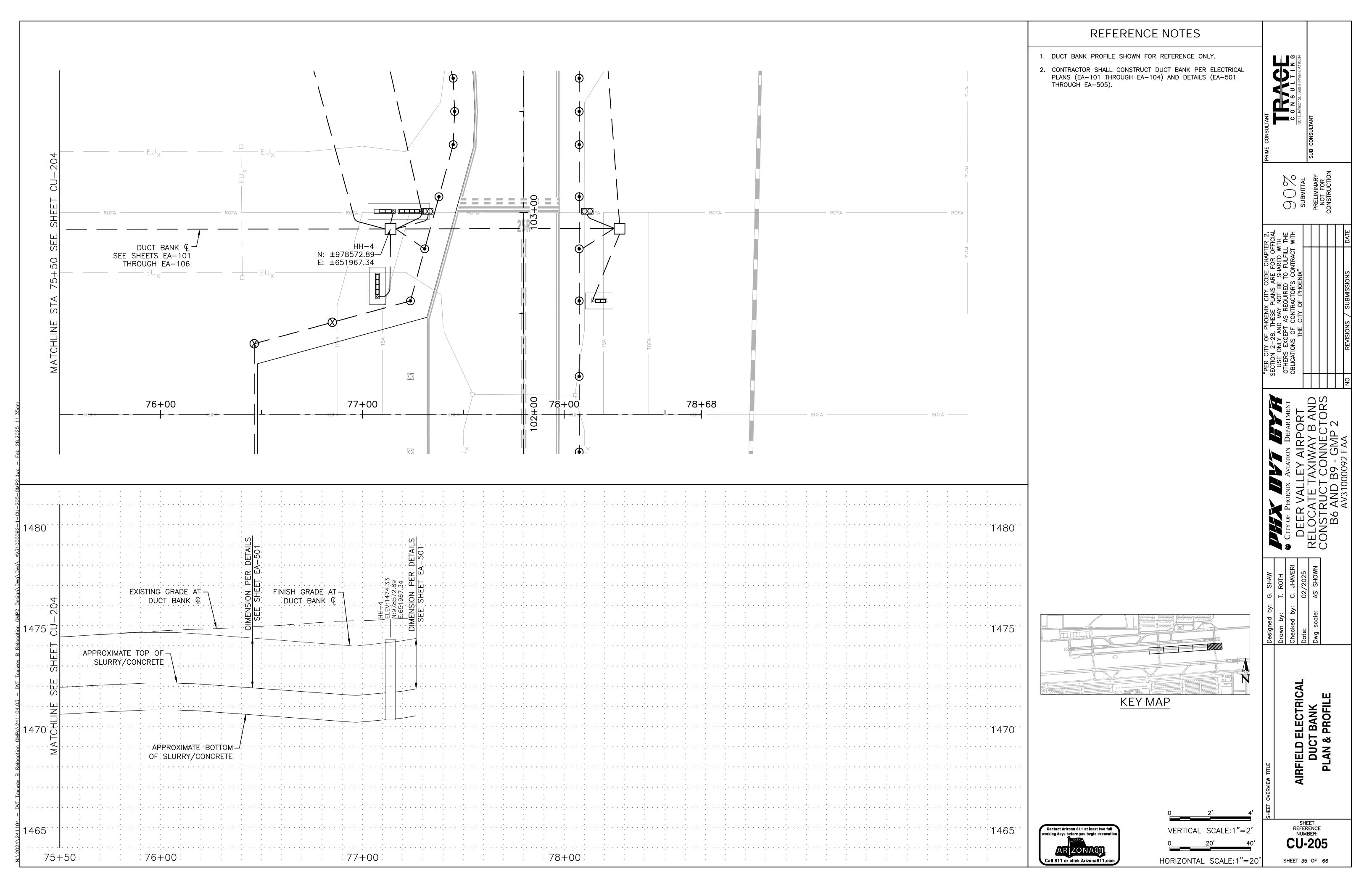


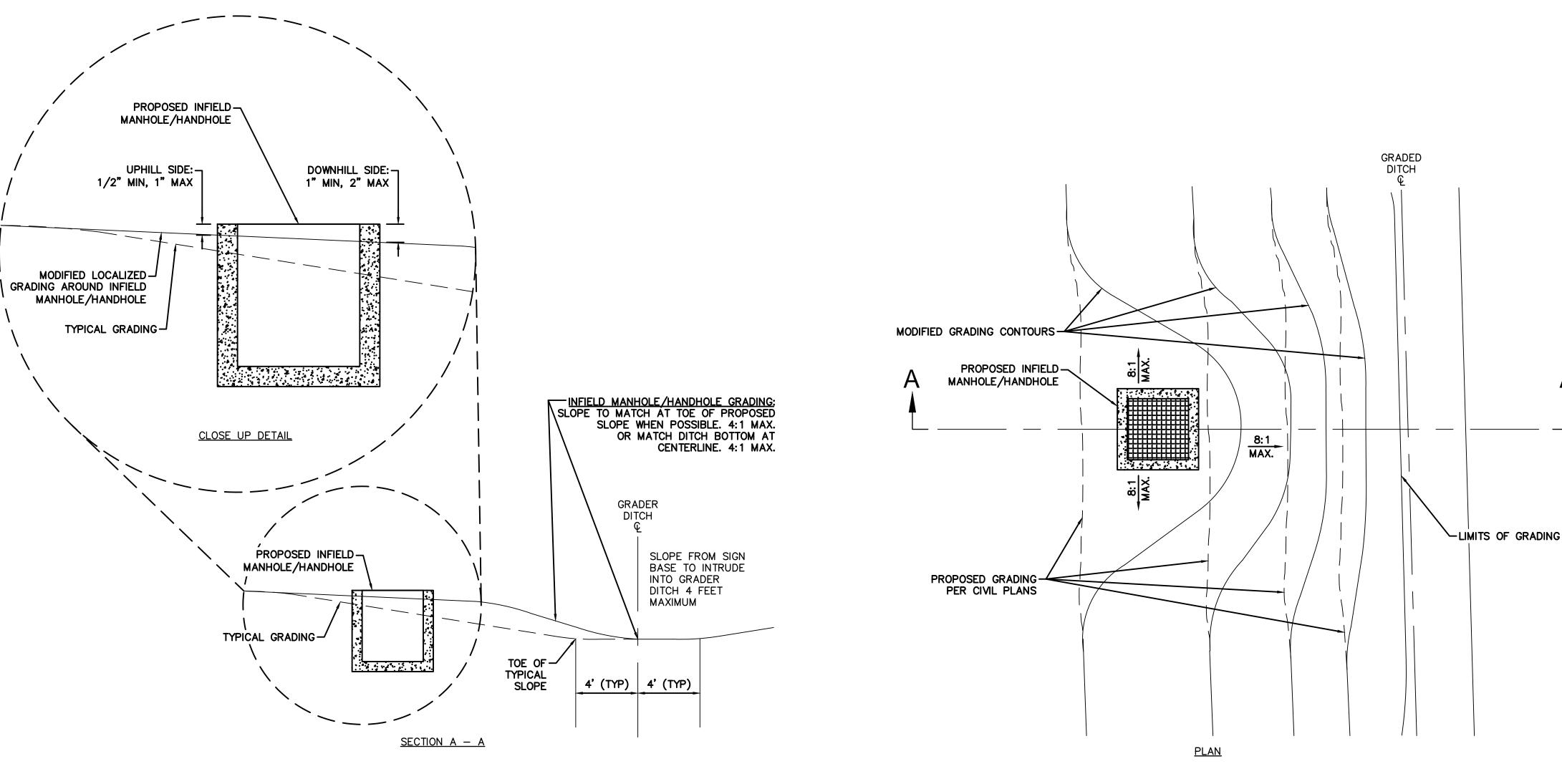




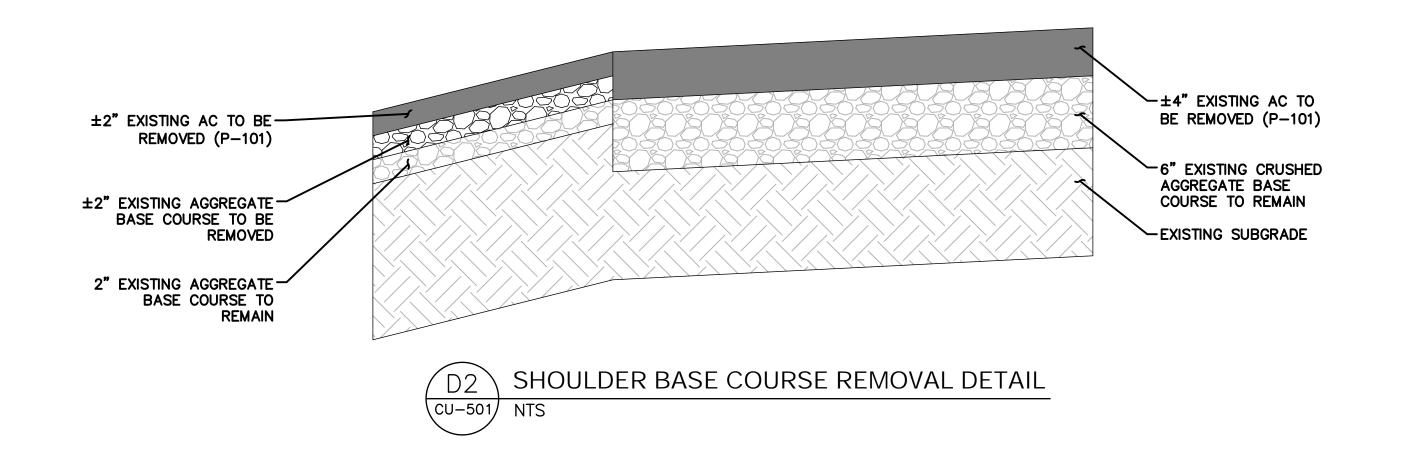








D1 INFIELD MANHOLE/HANDHOLE LOCALIZED GRADING DETAIL CU-501 NTS



C O N S U L T I N G
1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034

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USE ONLY AND MAY NOT BE SHARED WITH HERS EXCEPT AS REQUIRED TO FULFILL THE LIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

N DEPARTMENT OBLIGATIO
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TITY OF PHOENIX AVIATION DEPARTM DEER VALLEY AIRPOR ELOCATE TAXIWAY B A NSTRUCT CONNECTO

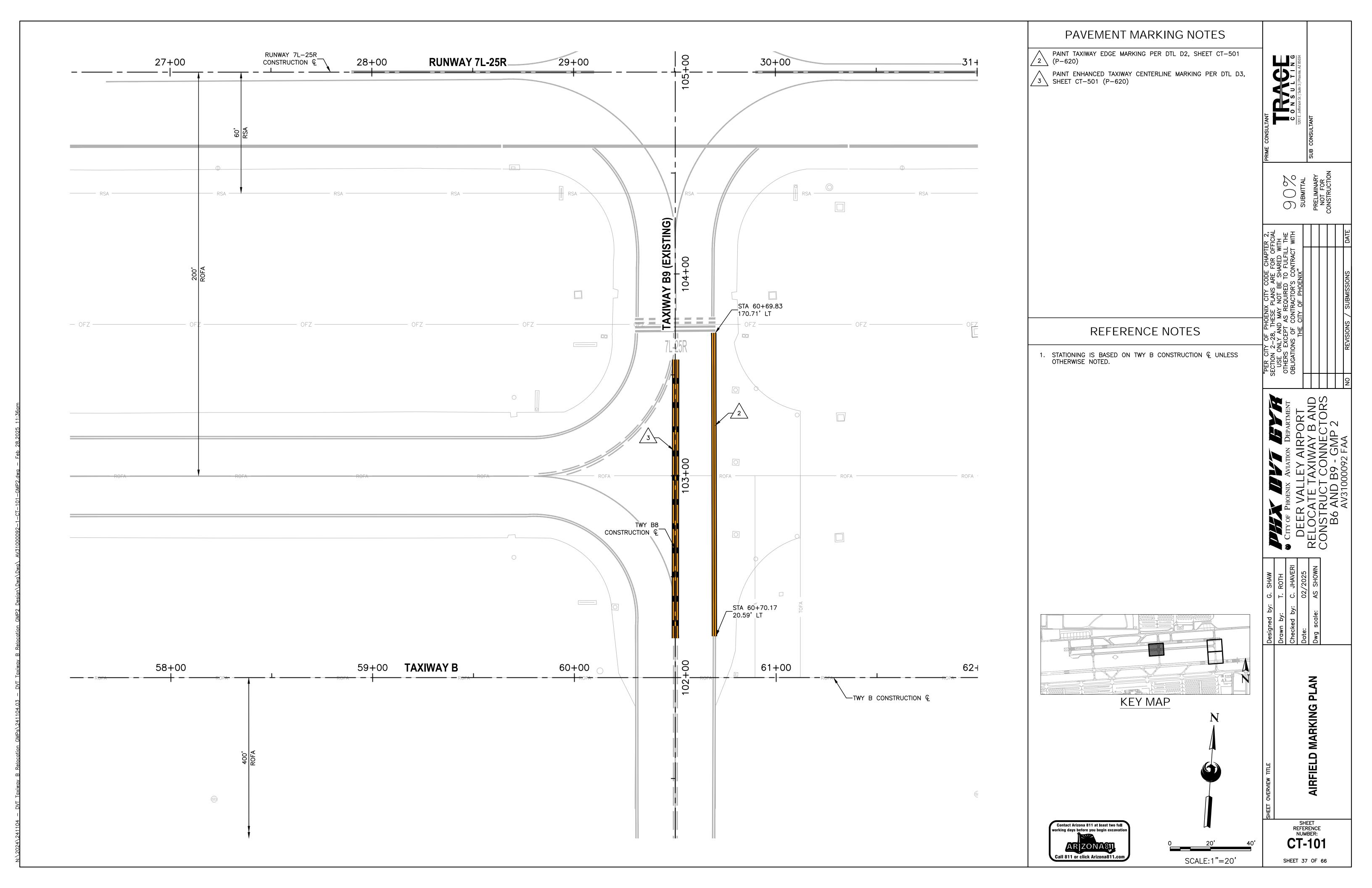
Drawn by: T. ROTH
Checked by: C. JHAVERI
Date: 02/2025

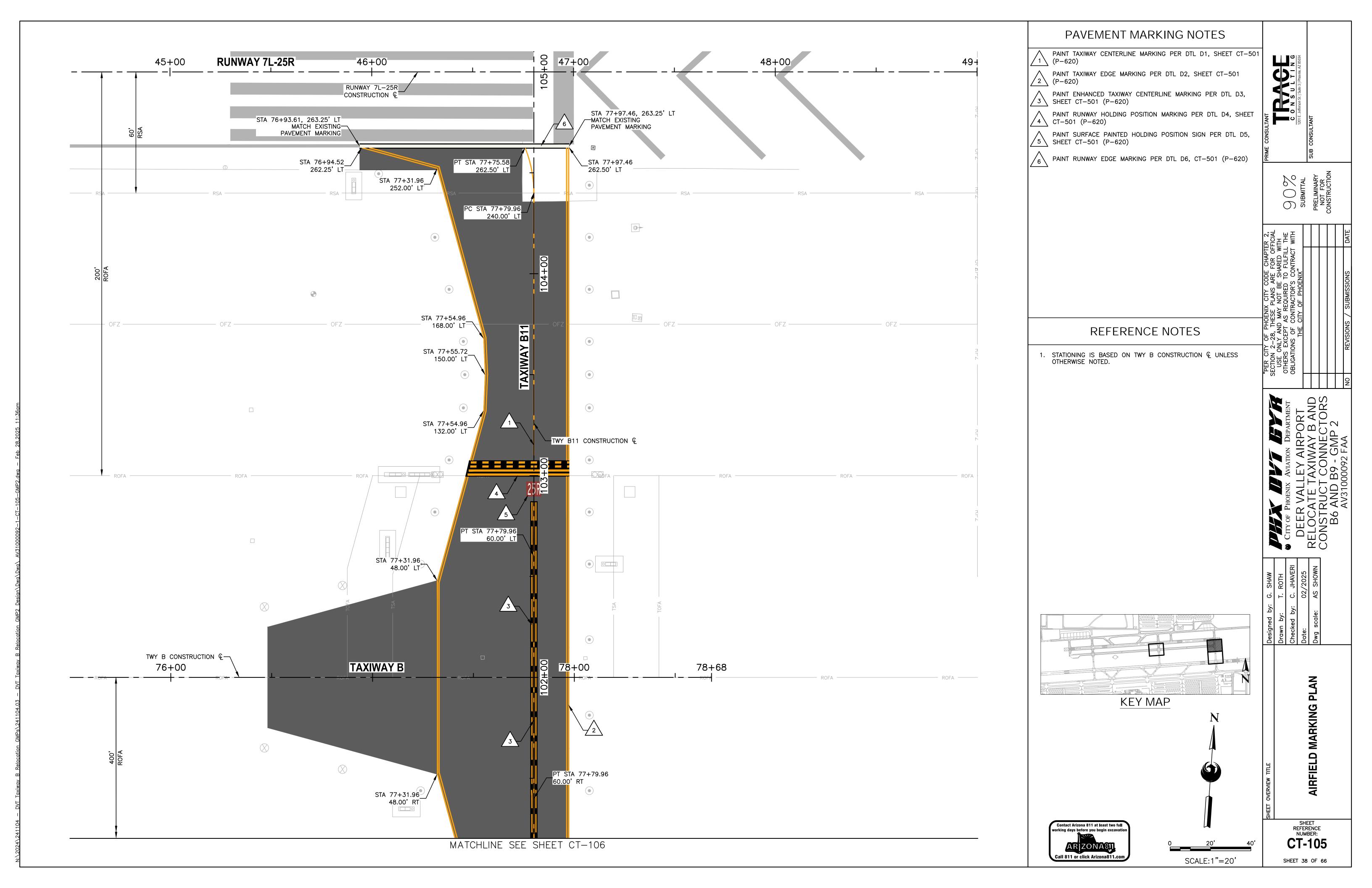
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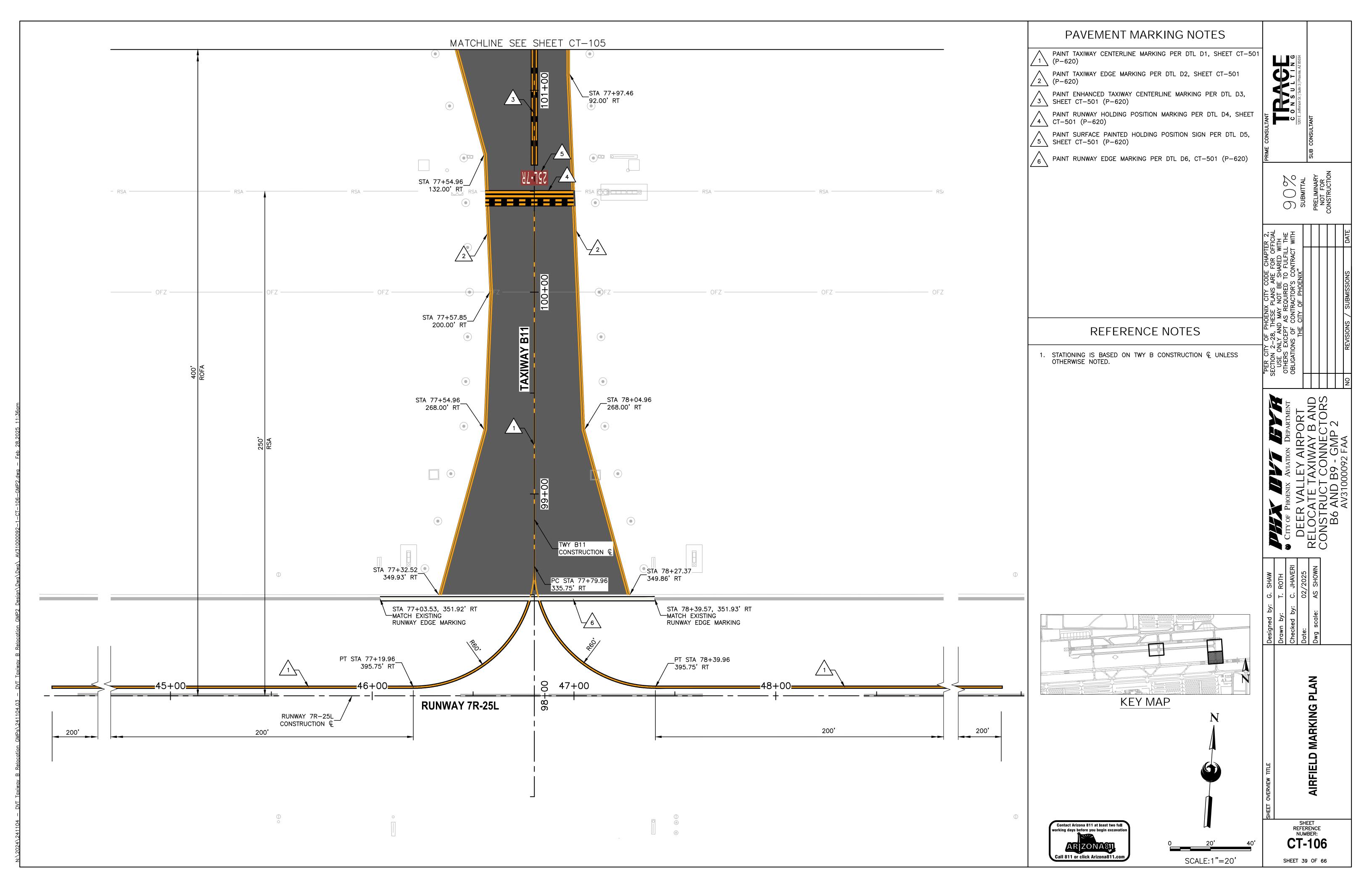
GRADING & DRAINAGE DETAILS

SHEET
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NUMBER:
CU-501

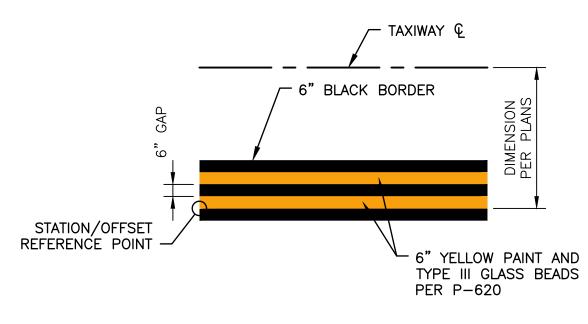
SHEET 36 OF 66



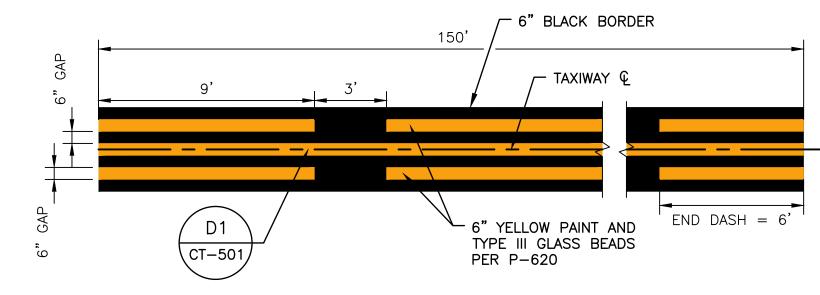






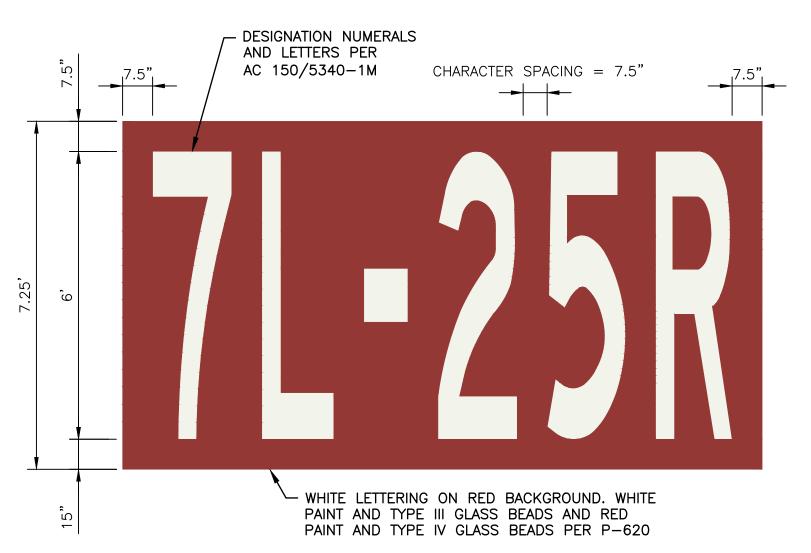


D2 CONTINUOUS TAXIWAY EDGE MARKING
CT-501) NTS



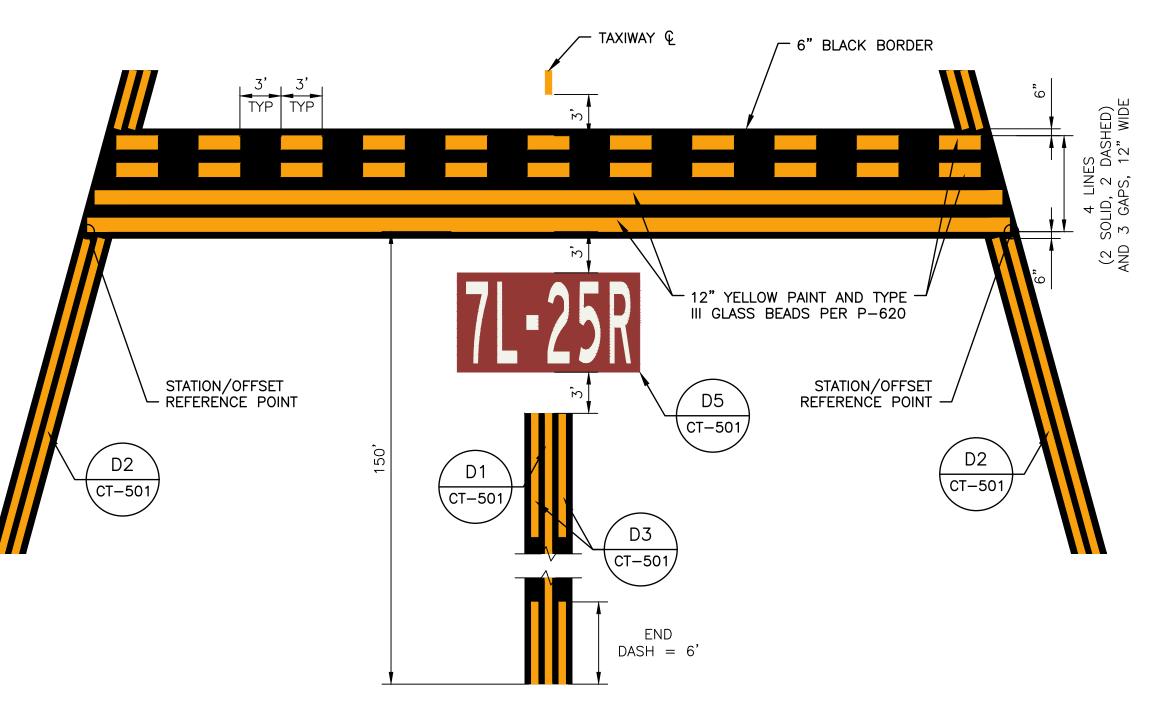
NOTES: 1. ENHANCED TAXIWAY CENTERLINE MARKING DIMENSIONS TAKEN ALONG TAXIWAY CENTERLINE.

D3 ENHANCED TAXIWAY CENTERLINE MARKING
CT-501 NTS

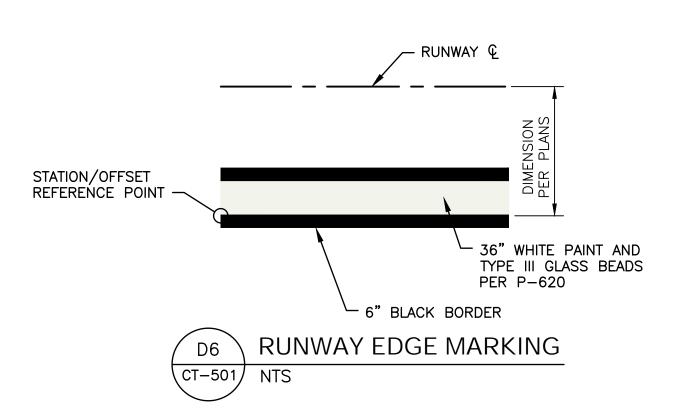


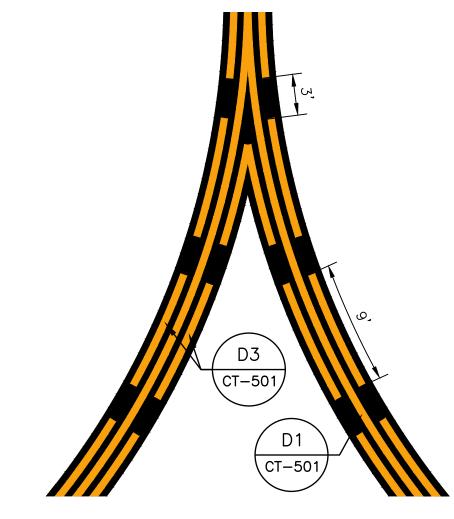
NOTES: 1. 7L-25R SIGN SHOWN FOR REFERENCE, SEE MARKING PLANS FOR INSCRIPTIONS AND LOCATIONS.

D5 SURFACE PAINTED HOLDING POSITION SIGN CT-501 NTS



RUNWAY HOLDING POSITION MARKING DIMENSIONS
OT NTS





NOTES:

1. IF V-SHAPED INNER DASHES ARE LESS THAN 5 FEET THEY MAY BE OMITTED.

2. MEASUREMENTS ARE TAKEN ALONG THE CENTER OF THE CENTERLINE STRIPE.

D7 DASHED LINES AT CONVERGING TAXIWAY CENTERLINES

(CT-501) NTS

# GENERAL NOTES

- 1. FINAL MARKING SHALL ALIGN WITH EXISTING MARKING AT EDGE OF NEW PAVEMENT.
- 2. LETTERING FOR SURFACE PAINTED HOLDING POSITION SIGNS SHALL BE IN ACCORDANCE WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR NO. 150/5340-1M, APPENDIX B.
- 3. ALL MARKINGS ARE SUBJECT TO FINAL APPROVAL BY AIRPORT OPERATIONS.
- 4. PAINT CONTRACTOR TO UTILIZE THE PROVIDED DVT PAINT STENCILS FOR INSTALLATION OF PAVEMENT MARKINGS.
  5. OBLITERATE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKING LAYOUT AND
- 6. BLACK BORDER NOT TO BE PAINTED FOR MARKINGS ON NEW ASPHALT.
- 7. NO GLASS BEADS SHALL BE APPLIED TO TEMPORARY PAVEMENT MARKINGS. 8. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

PLANS ARE FOR OFFICIAL

NOT BE SHARED WITH

EQUIRED TO FULFILL THE

SACTOR'S CONTRACT WITH

OF PHOENIX"

SUBMITTAL

SUB CONSULTANT

ROLLIMINARY

NOT FOR

CONSTRUCTION

DEER VALLEY AIRPORT

LOCATE TAXIWAY B AND

NSTRUCT CONNECTORS

B6 AND B9 - GMP 2

Designed by: G. SHAW
Drawn by: T. ROTH
Checked by: C. JHAVERI
Date: 02/2025
Dwg scale: NTS

AIRFIELD MARKING DETAILS

SHEET
REFERENCE
NUMBER:
CT-501

SHEET 40 OF 66

# **ELECTRICAL LEGEND:** (UNLESS OTHERWISE NOTED ON PLANS) EXISTING ELECTRICAL CONDUIT AND CONDUCTOR EXISTING FIBER OPTIC DUCTBANK PVC W/#8-5KV L-824 TYPE "C" CABLE PER INDICATED LIGHTING CIRCUIT." (QUANTITY AND SIZE AS INDICATED ON PLAN SHEETS) CONCRETE ENCASED CONDUIT/DUCTBANK \_\_\_\_\_ 1-2"C DIRECT BURIED TEMPORARY RUNWAY SLEEVE EXISTING TAXIWAY EDGE LIGHT EXISTING RUNWAY EDGE LIGHT EXISTING JUNCTION CAN EXISTING RUNWAY END IDENTIFIER LIGHT EXISTING AIRFIELD GUIDANCE SIGN EXISTING ELECTRICAL HANDHOLE EXISTING RUNWAY GUARD LIGHT $\bigcirc\bigcirc$ NEW AIRFIELD GUIDANCE SIGN WITH ASPHALT MAINTENANCE PAD NEW ELECTRICAL HANDHOLE NEW L-861T(L) LED TAXIWAY EDGE LIGHT NEW OR SALVAGED L-804(L) LED ELEVATED RUNWAY GUARD LIGHT NEW L-853 RETROREFLECTIVE TAXIWAY EDGE MARKER NEW L-867B (12" DIA) JUNCTION CAN NEW L-867D (16" DIA) JUNCTION CAN NEW L-867 LIGHT BASE CAN WITH COVER

# **ELECTRICAL ABBREVIATIONS:**

| APS | ARIZONA PUBLIC SERVICE |
|-----|------------------------|
| BCC | BARE COPPER GROUND     |
| CCR | CONSTANT CURRENT REGUL |

CONSTANT CURRENT REGULATOR

CONCRETE ENCASED

CIRCUIT CKT

CU COPPER

FEDERAL AVIATION ADMINISTRATION

GROUND

GALVANIZED RIGID STEEL

KILOWATT

LIGHT EMITTING DIODE

LINEAR FEET

NON-PAY ITEM

PRECISION APPROACH PATH INDICATOR

PVC POLY-VINYL CHLORIDE

RUNWAY END IDENITIFIER LIGHT

RUNWAY GUARD LIGHT

SE SLURRY ENCASED

EA-603

**TYPICAL** TYP

# ADVISORY CIRCULARS FOR AIRPORT PROJECTS (MOST RECENT VERSION):

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

# **ELECTRICAL SHEET INDEX**

EQUIPMENT DATA TABLES

| EA-001          | ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX  |
|-----------------|--|
| EA-002          | ELECTRICAL NOTES   |
| ED-101 - ED-106 | AIRFIELD ELECTRICAL DEMOLITION PLANS   |
| EA-101 - EA-106 | AIRFIELD LIGHTING AND ELECTRICAL PLANS   |
| EA-501          | ELECTRICAL DETAILS - CONDUIT DUCTBANKS AND DUCT MARKER   |
| EA-502          | ELECTRICAL DETAILS - COUNTERPOISE AND GROUNDING  |
| EA-503          | ELECTRICAL DETAILS - 4'x4'x4' HANDHOLE   |
| EA-504          | ELECTRICAL DETAILS - JUNCTION CAN  |
| EA-505          | ELECTRICAL DETAILS - NEW CAST-IN-PLACE CONCRETE BASE FOR AIRFIELD GUIDANCE SIGN                    |
| EA-506          | ELECTRICAL DETAILS — NEW CAST—IN—PLACE CONCRETE BASE FOR MULTIPLE—SECTIONED AIRFIELD GUIDANCE SIGN |
| EA-507          | ELECTRICAL DETAILS - L-858 AIRFIELD GUIDANCE SIGN AND 5KV CABLE SPLICE                             |
| EA-508          | ELECTRICAL DETAILS - ELEVATED TAXIWAY EDGE LIGHT   |
| EA-509          | ELECTRICAL DETAILS - RUNWAY GUARD LIGHT  |
| EA-601          | AIRFIELD GUIDANCE SIGN SCHEDULE  |
| EA-602          | EQUIPMENT DATA TABLES  |
|                 |  |

SHEET REFERENCE **EA-001** 

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# ELECTRICAL DEMOLITION GENERAL NOTES

- 1. WITHIN AREAS OF DEMOLITION AND AS OTHERWISE SHOWN, REMOVE IDENTIFIED SIGN BASES, ISOLATION TRANSFORMERS AND OTHER INDICATED ITEMS.
- 2. CABLE REMOVAL
- A. <u>DIRECT BURIAL</u>: REMOVE FROM WITHIN MANHOLES AND HANDHOLES AND REMOVE IN AREAS WHERE EXCAVATION REQUIRES DISTURBING, ABANDON ELSEWHERE.
- B. IN CONDUIT: REMOVE COMPLETELY BETWEEN NEAREST BASES, HANDHOLES OR MANHOLES.
- 3. AT INDICATED DEVICES TO BE REMOVED OR IN DEMOLITION AREAS INDICATED, REMOVE ALL CONDUCTORS BACK TO NEAREST MANHOLE OR HANDHOLE OUTSIDE DEMOLITION AREA.
- 4. SIGNS AND/OR SIGN BASES, CABLES, CONDUITS, DUCTS, ETC. WHICH ARE NOT SPECIFICALLY INDICATED TO BE REMOVED (OR WHICH ARE SHOWN TO REMAIN WITHIN AREAS OF GENERAL DEMOLITION) SHALL REMAIN IN-PLACE AND FUNCTIONAL.
- 5. CONTRACTOR SHALL VERIFY EQUIPMENT AND CABLE DESIGNATIONS AND STATUS PRIOR TO REMOVAL OR DISCONNECTING.
- 6. UNLESS OTHERWISE NOTED, ALL REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES. REMOVED LIGHT FIXTURE AND SIGNS NOT DESIGNATED FOR RE—INSTALLATION SHALL BE OFFERED TO AIRPORT FOR RETURN UNLESS OTHERWISE NOTED.
- 7. DRAWINGS MAY NOT DETAIL ALL EXISTING FACILITIES IN AREAS OF DEMOLITION. CONTRACTOR SHALL REVIEW THE SITE AND RECORD DRAWINGS TO VERIFY THE DEMOLITION EFFORT INVOLVED.
- 8. EXISTING SIGNS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. TEMPORARY CONNECTIONS TO EXISTING SIGNS REQUIRED DURING RELOCATION. TEMPORARY MOUNTING OF EXISTING SIGNS REQUIRED WHERE NEW LOCATION CONFLICTS WITH EXISTING LOCATION.

# AIRFIELD LIGHT LOCKOUT/TAGOUT POLICY

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

- 1. DEER VALLEY ELECTRICIANS RESPONDING TO A LOCK-OUT/TAG-OUT REQUEST WILL COORDINATE WITH THE ATCT THROUGH OPERATIONS.
- 2. AFTER OPERATIONS NOTIFIES ELECTRICIANS OF CLOSURES, THE DEER VALLEY ELECTRICIANS WILL TURN OFF THE CLOSED RUNWAYS/TAXIWAYS USING THE AIRFIELD COMPUTER SYSTEM.
- 3. THE CONTRACTOR WILL SUPPLY AN APPROVED BREAKER-LOCKING DEVICE AND LOCK, THEN LOCK OF THE INDIVIDUAL BREAKERS FOR THE CIRCUITS TO BE LOCKED OUT. THESE ITEMS WILL REMAIN IN THE VAULTS IN A LOCK BOX PROVIDED BY DEER VALLEY ELECTRICAL SECTION.
- 4. DEER VALLEY ELECTRIC SECTION WILL LOCK THE PANEL DOORS SHUT WITH A HASP AND AN ELECTRICAL SECTION LOCK.
- 5. THE S-1 CUTOUTS WILL BE PULLED, LOCKED AND PLACED ON THE CORRESPONDING REGULATOR BY THE ELECTRICAL CONTRACTOR.
- 6. THE ELECTRICAL CONTRACTOR AND DEER VALLEY ELECTRICIANS MUST FILL OUT LOCK-OUT FORMS BEFORE LEAVING THE VAULT.
- 7. UPON COMPLETION OF THE LOCKOUT, THE CONTRACTOR WILL REMOVE ALL LOCKS AND INSTALL THE S-1 CUTOUTS. ALL CIRCUITS MUST BE VERIFIED OPERATIONAL IN THE MANUAL MODE ON THE REGULATOR. OPERATIONS WILL PERFORM A COMPLETE CHECK OF THE LIGHTS IN THE FIELD, TO VERIFY ACTUAL OPERATION.
- 8. WHEN THAT HAS BEEN COMPLETED, DEER VALLEY ELECTRICIANS WILL NOTIFY OPERATIONS WHEN LOCK—IN IS COMPLETE AND REGULATORS ARE IN REMOTE CONTROL; OPERATIONS WILL NOTIFY THE ATCT THAT HAVE CONTROL OF THE AIRFIELD LIGHTING.
- 9. COMPLETE LOCK-OUT/LOCK-IN FORMS.
- \*THIS PROCEDURAL CHECKLIST MUST BE FOLLOWED TO THE LETTER.

## ELECTRICAL CONSTRUCTION PHASING NOTES

- 1. CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT MAINTENANCE, AIRPORT OPERATIONS, AND THE ENGINEER AS NECESSARY.
- 2. CONTRACTOR SHALL GIVE 48 HOURS NOTICE PRIOR TO WORKING ON OR AROUND ANY DUCTBANKS, HANDHOLES, ETC.
- 3. CONTRACTOR SHALL MAINTAIN OR HAVE SUFFICIENT MATERIAL/
  EQUIPMENT REQUIRED TO PROVIDE TEMPORARY LIGHTING AND CIRCUIT
  EXTENSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO FIXTURES,
  TRANSFORMERS, BASES, CONDUIT, L-824 CABLE & L-823 SPLICE KITS.
  THESE ITEMS WILL NOT BE AVAILABLE FROM DVA MAINTENANCE SHOP.
- 4. THE CONTRACTOR SHALL MAINTAIN QUALIFIED PERSONNEL WITH THE APPROPRIATE EQUIPMENT, FOR THE INSTALLATION AND SPLICING OF AIRFIELD LIGHTING. SUCH PERSONNEL SHALL BE CAPABLE OF 60 MINUTE RESPONSE TIME IF THEY ARE NOT ALREADY PRESENT ON THE AIRFIELD.
- 5. TURN OFF AND COVER EXISTING SIGNAGE THAT MAY POTENTIALLY MISDIRECT AIRCRAFT MOVEMENT INTO CLOSED AREAS BARRICADED FOR CONSTRUCTION. SIGNAGE REQUIRING PARTIAL COVERAGE WITH TAXIWAY LOCATION PANELS REMAINING VISIBLE SHALL REMAIN ON WITH ONLY DIRECTIONAL PORTIONS COVERED WITH SECTIONS OF DARK COLORED TARP OR DOUBLE—LAYERED BURLAP THAT DOES NOT PERMIT VISIBILITY OF COVERED PORTION OF ARRAY DAY OR NIGHT. COVERS SHALL BE SECURELY HELD IN PLACE BY RATCHETING LASHING STRAPS, NO TAPE OR ADHESIVES WILL BE PERMITTED. SEE PHASING PLANS FOR PLACEMENT OF SIGN COVERS.
- 6. COVER EXISTING ELEVATED EDGE LIGHT FIXTURES IN CLOSED AREA BARRICADED FOR CONSTRUCTION WITH 4" PVC PIPE. COVER SHALL EXTEND 2" MIN. ABOVE TOP OF FIXTURE.
- 7. PROVIDE ANY TEMPORARY AIRFIELD CIRCUIT JUMPERS REQUIRED TO MAINTAIN OPERATION OF ALL CIRCUITS AFFECTED BY CONSTRUCTION PRIOR TO START OF DEMOLITION. TEMPORARY CIRCUIT JUMPERS SHALL BE SLEEVED IN 2" CONDUIT, SANDBAGGED OR SECURED TO LOW-LEVEL BARRICADES. TEMPORARY CIRCUIT JUMPERS MAY BE ROUTED THROUGH NEW TAXIWAY CROSSINGS OR EXISTING SPARE CONDUITS AS REQUIRED AND SHALL BE COMPLETELY REMOVED WHEN NO LONGER REQUIRED FOR OPERATION. TEMPORARY JUMPER PLACEMENT SHALL NOT AFFECT AIRCRAFT MOVEMENT OR AIRPORT OPERATIONS.
- 8. UNCOVER SIGNS AND EDGE LIGHT FIXTURES, REMOVE TEMPORARY JUMPERS. AND VERIFY OPERATION AT THE END OF PROJECT.

CONSULTANT

16719 East Palisades Bi

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OTHERS EXCEPT AS REQUIRED TO FULFILL THE
OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH
THE CITY OF PHOENIX"

REVISIONS / SUBMISSIONS
DATE

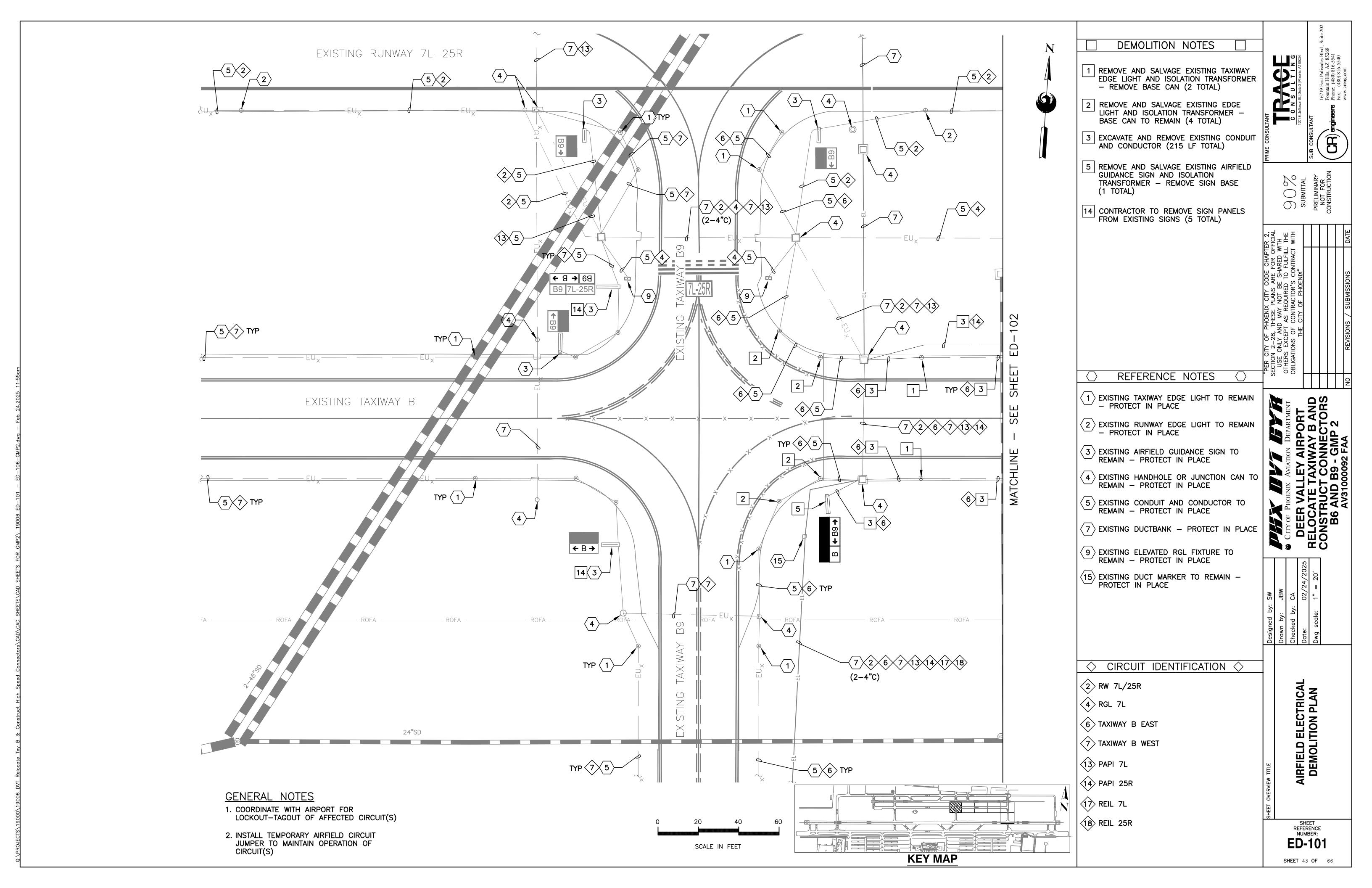
© CITY OF PHOENIX AVIATION DEPARTMENT
DEER VALLEY AIRPORT
RELOCATE TAXIWAY B AND
CONSTRUCT CONNECTORS
B6 AND B9 - GMP 2

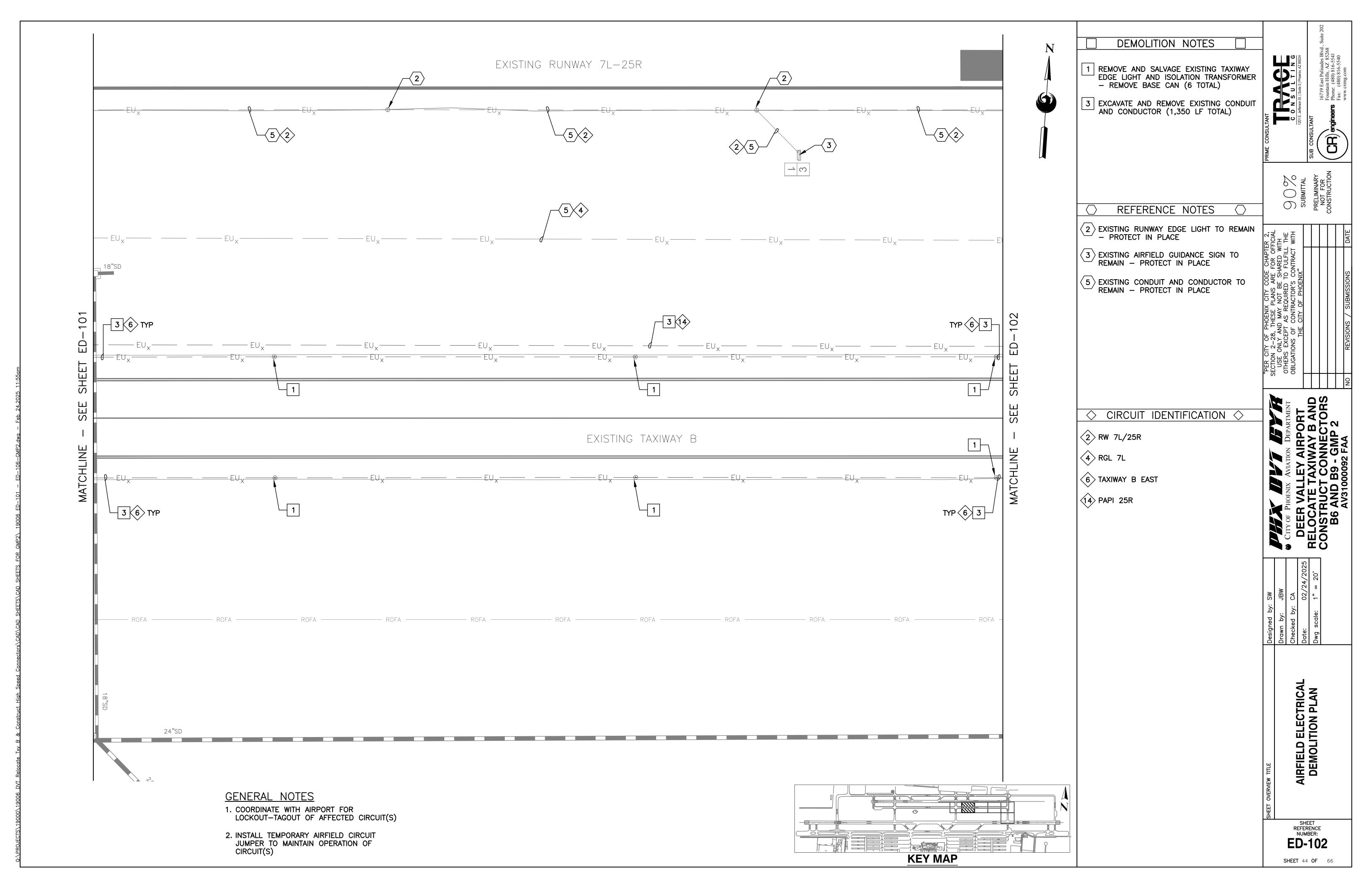
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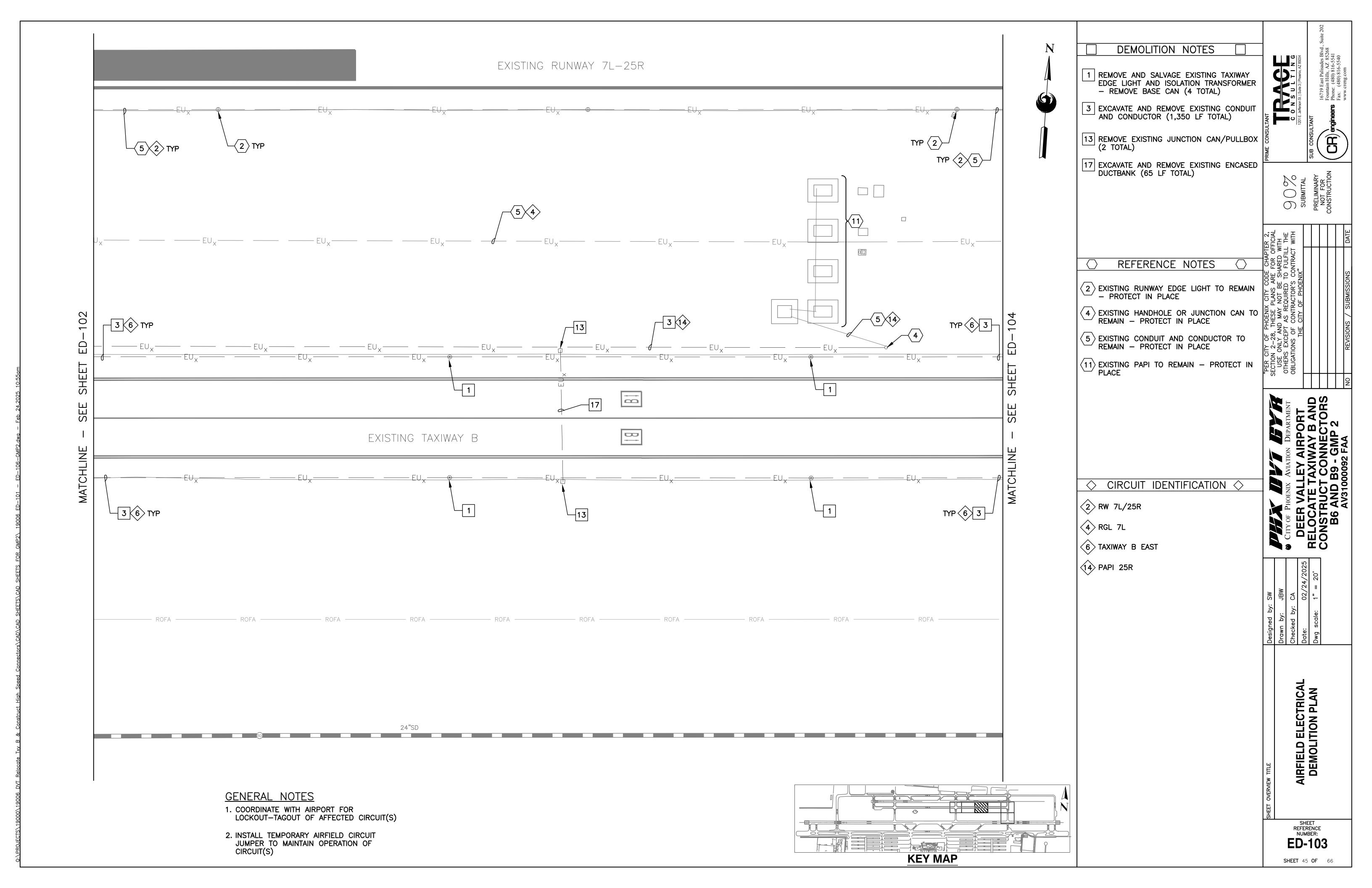
ELECTRICAL NOTES

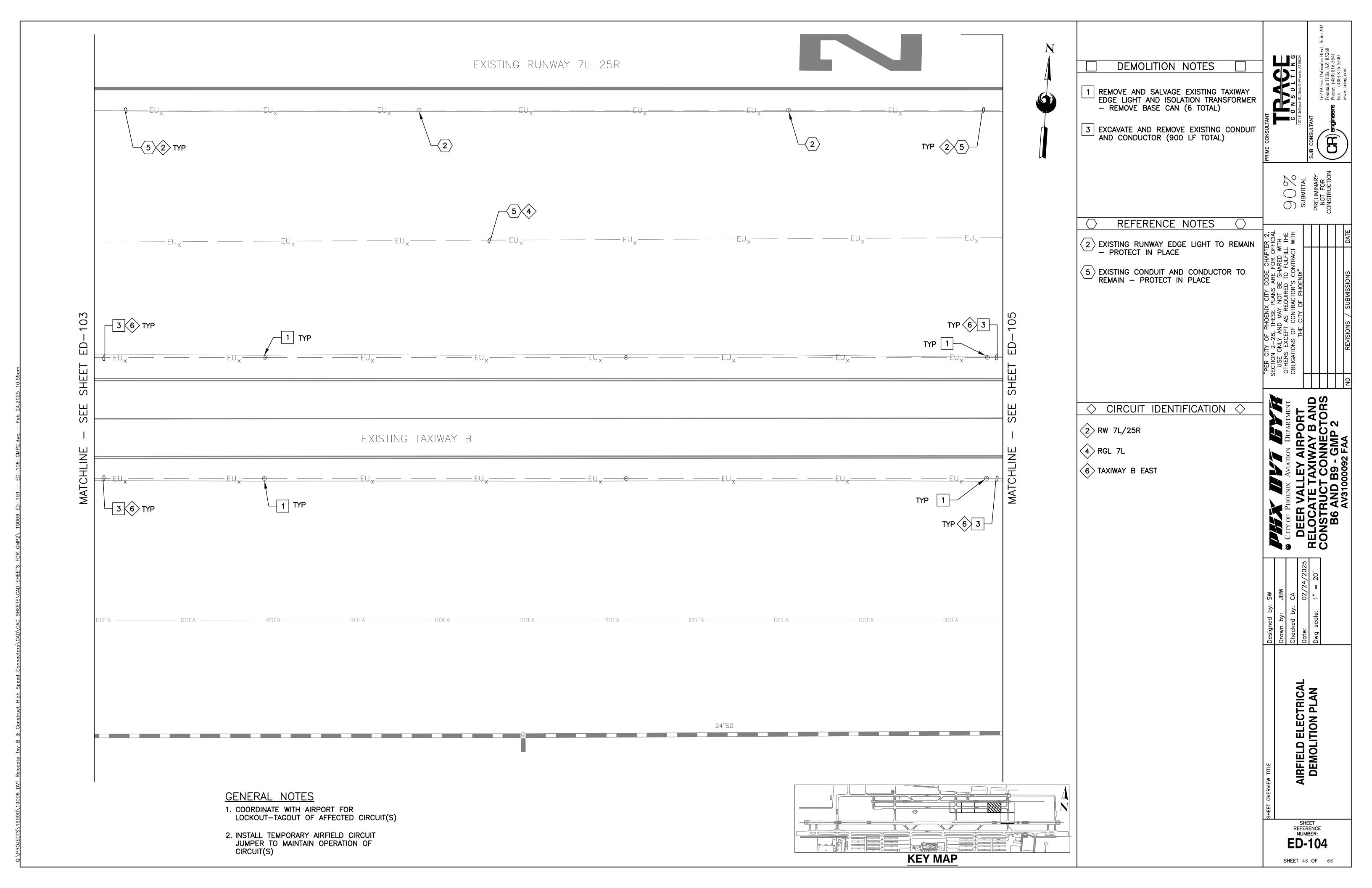
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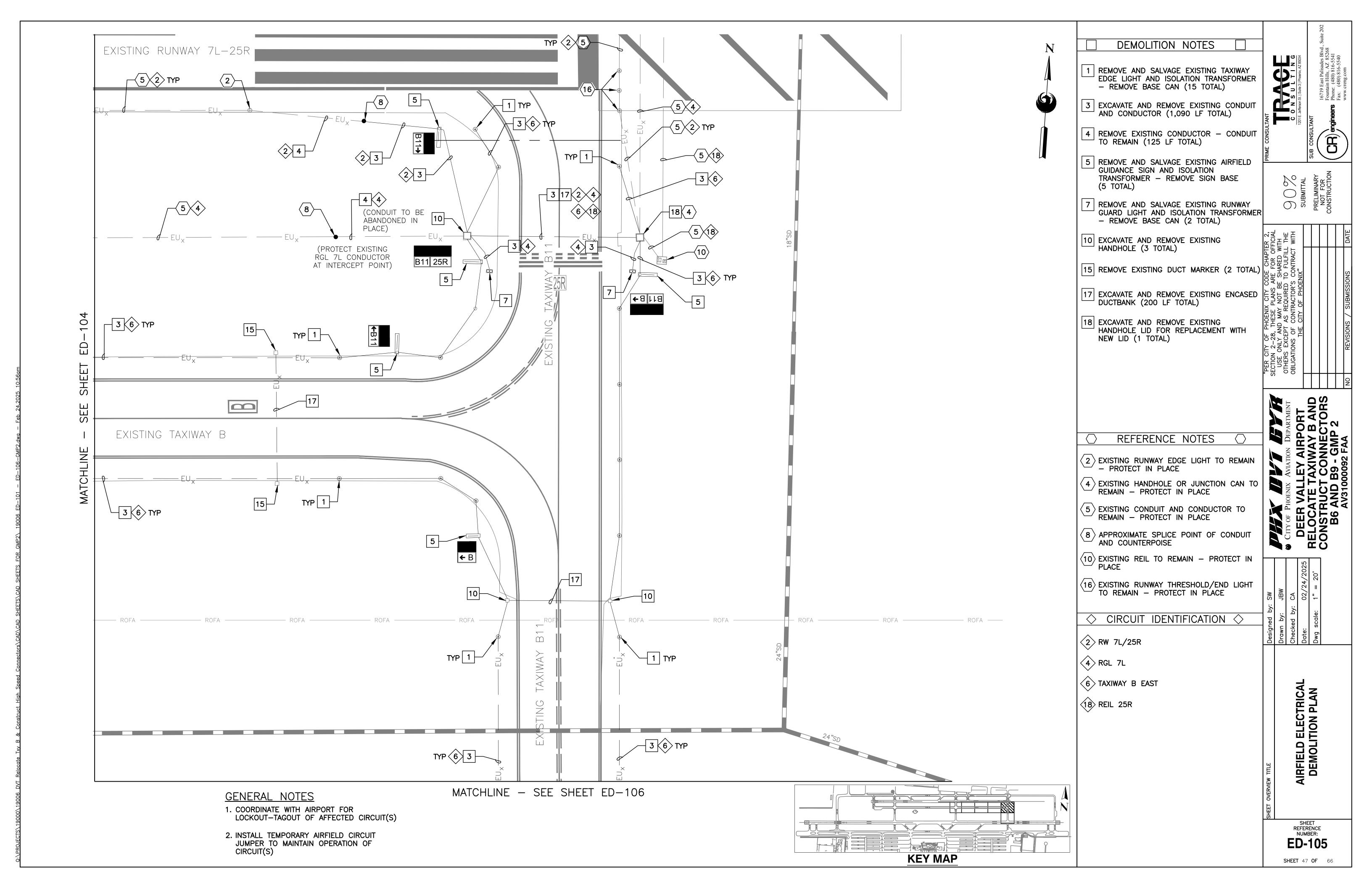
**SHEET** 42 **OF** 66

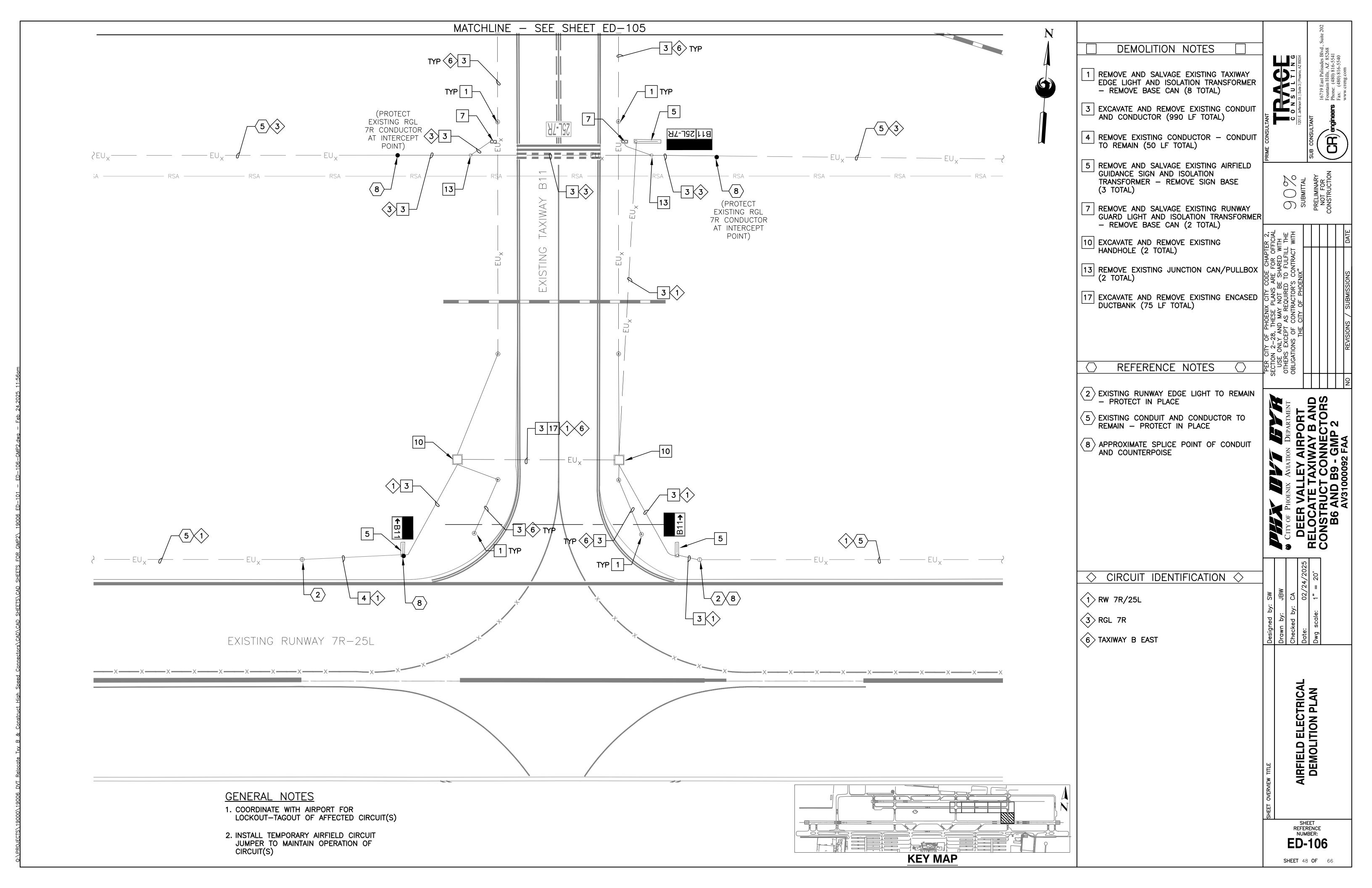


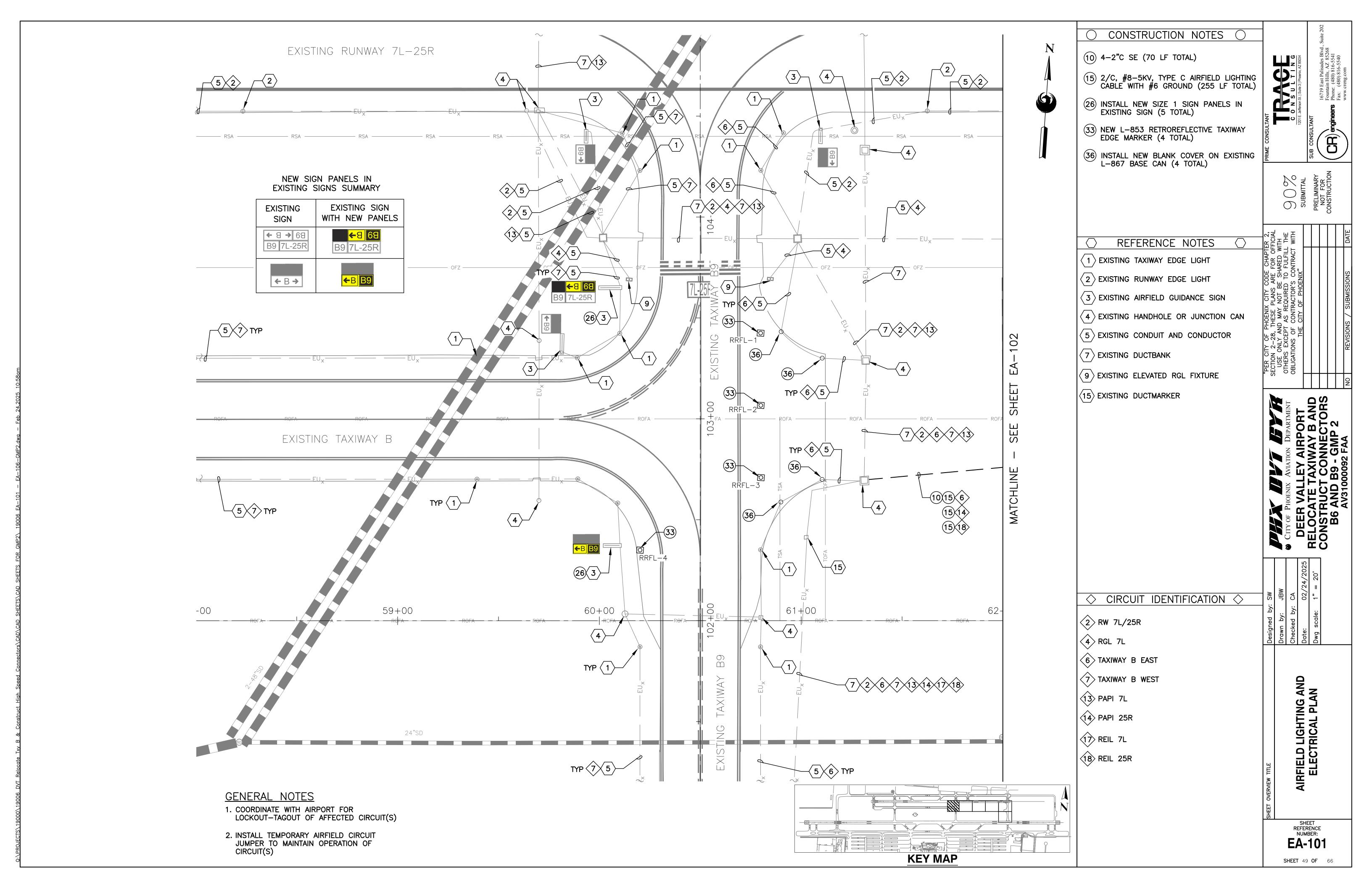


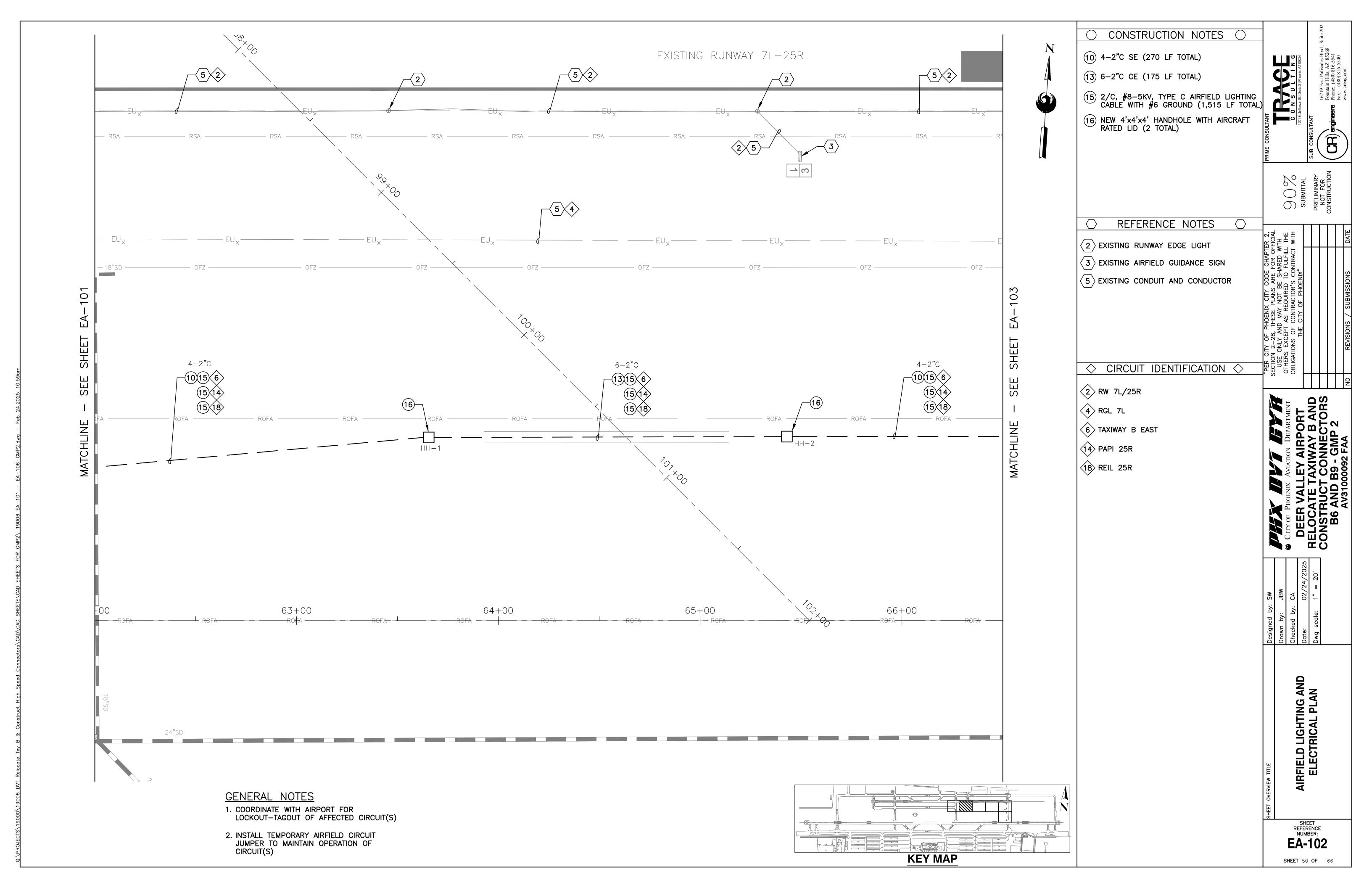


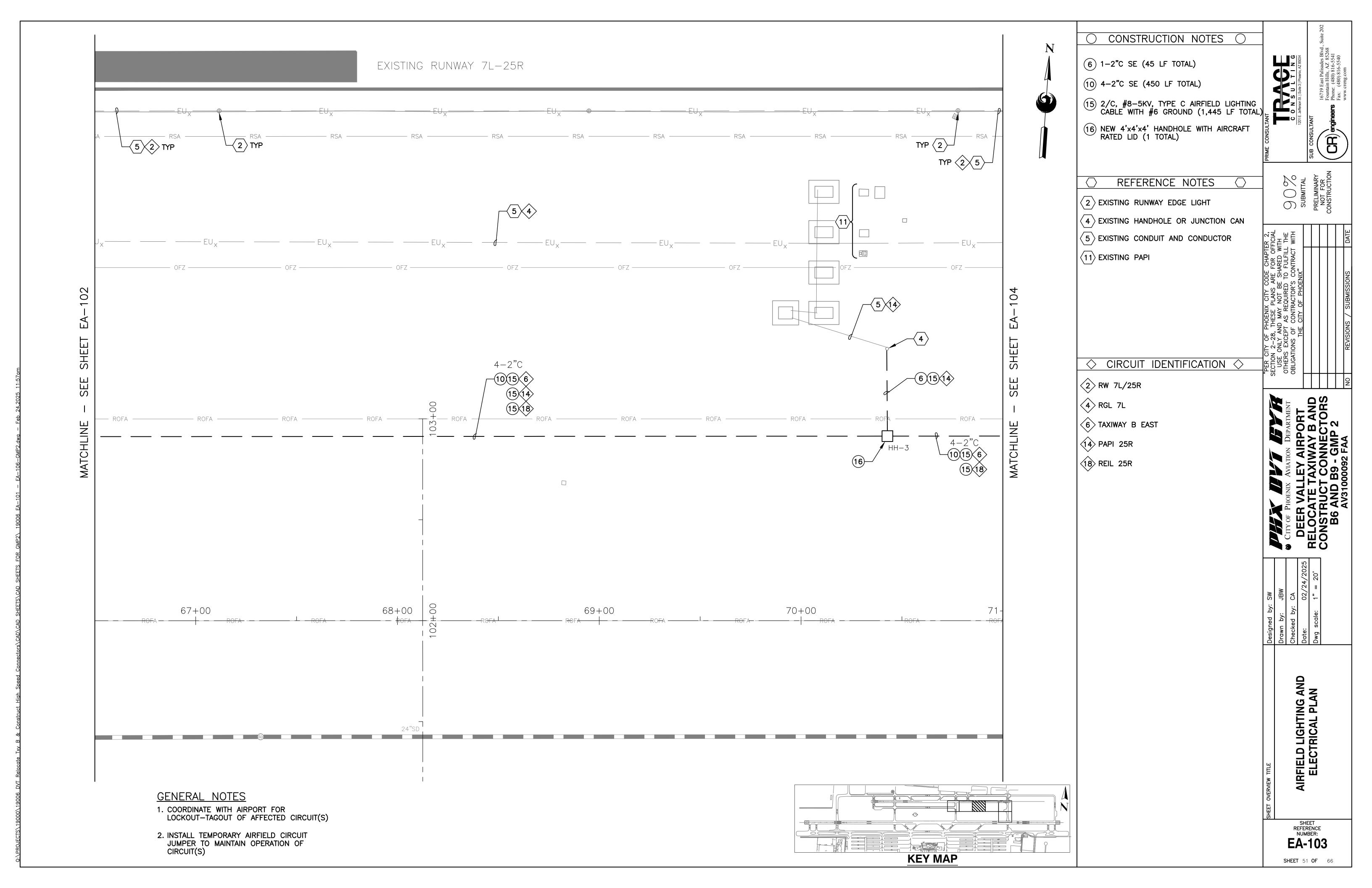


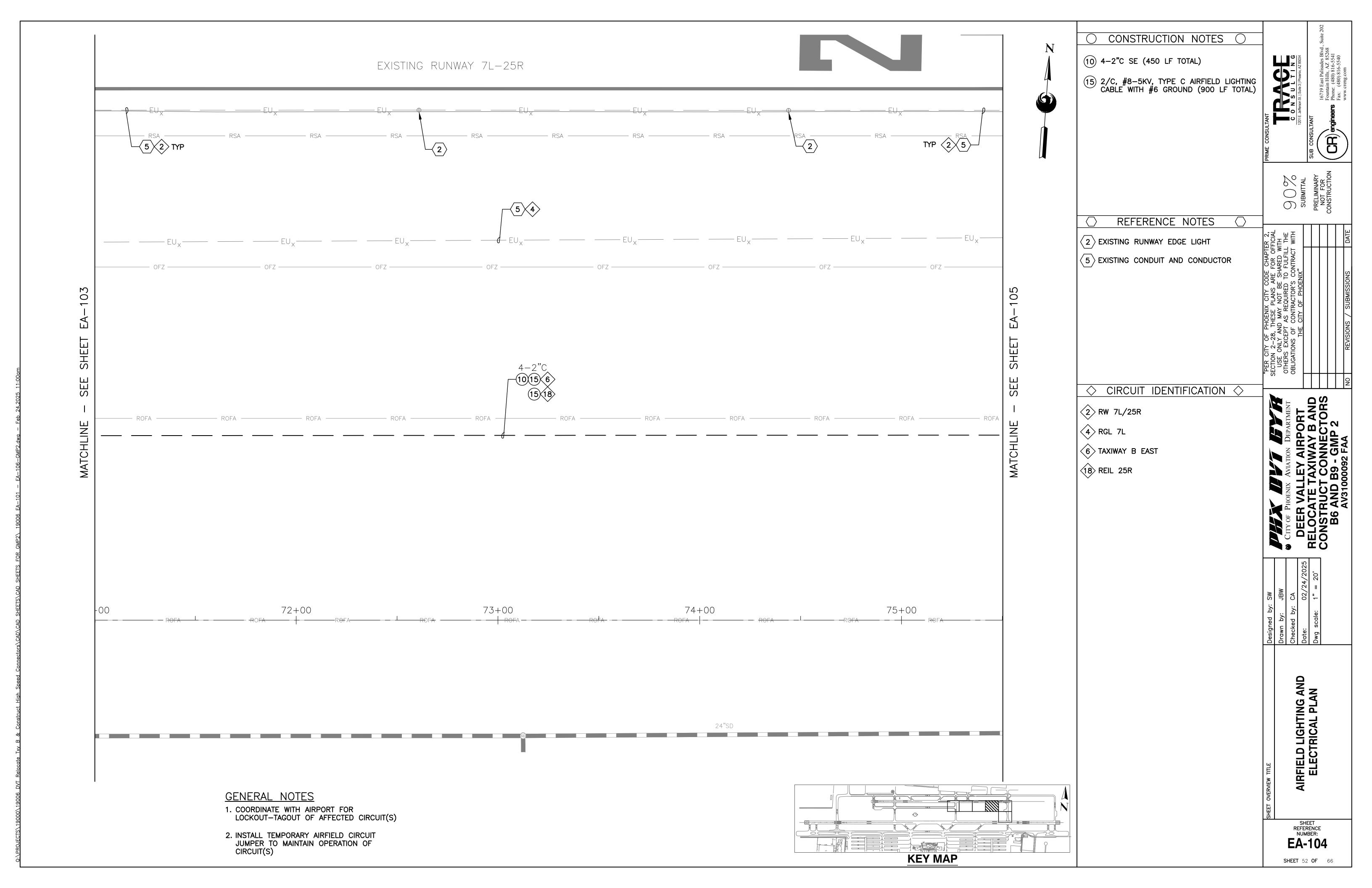


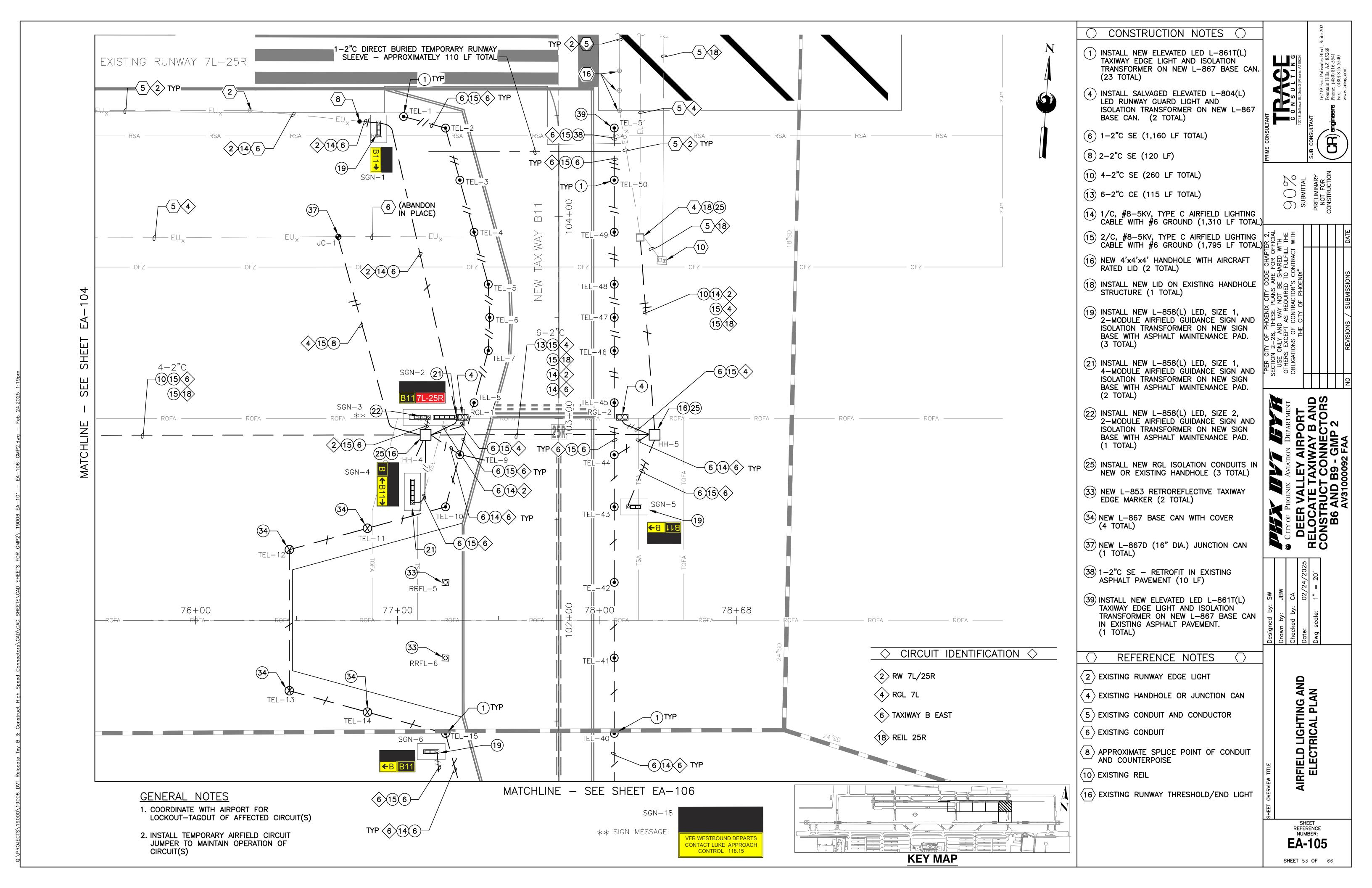


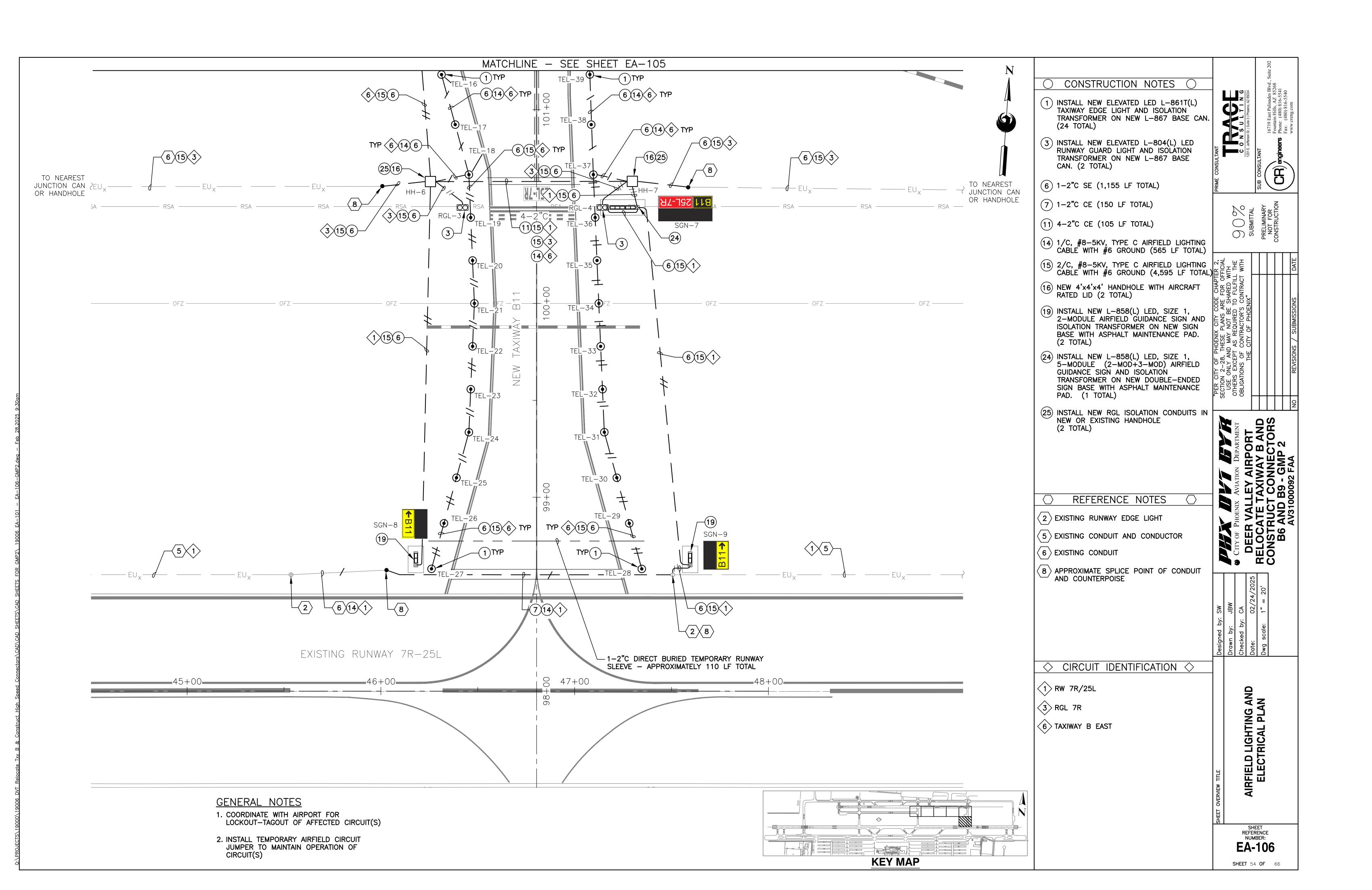


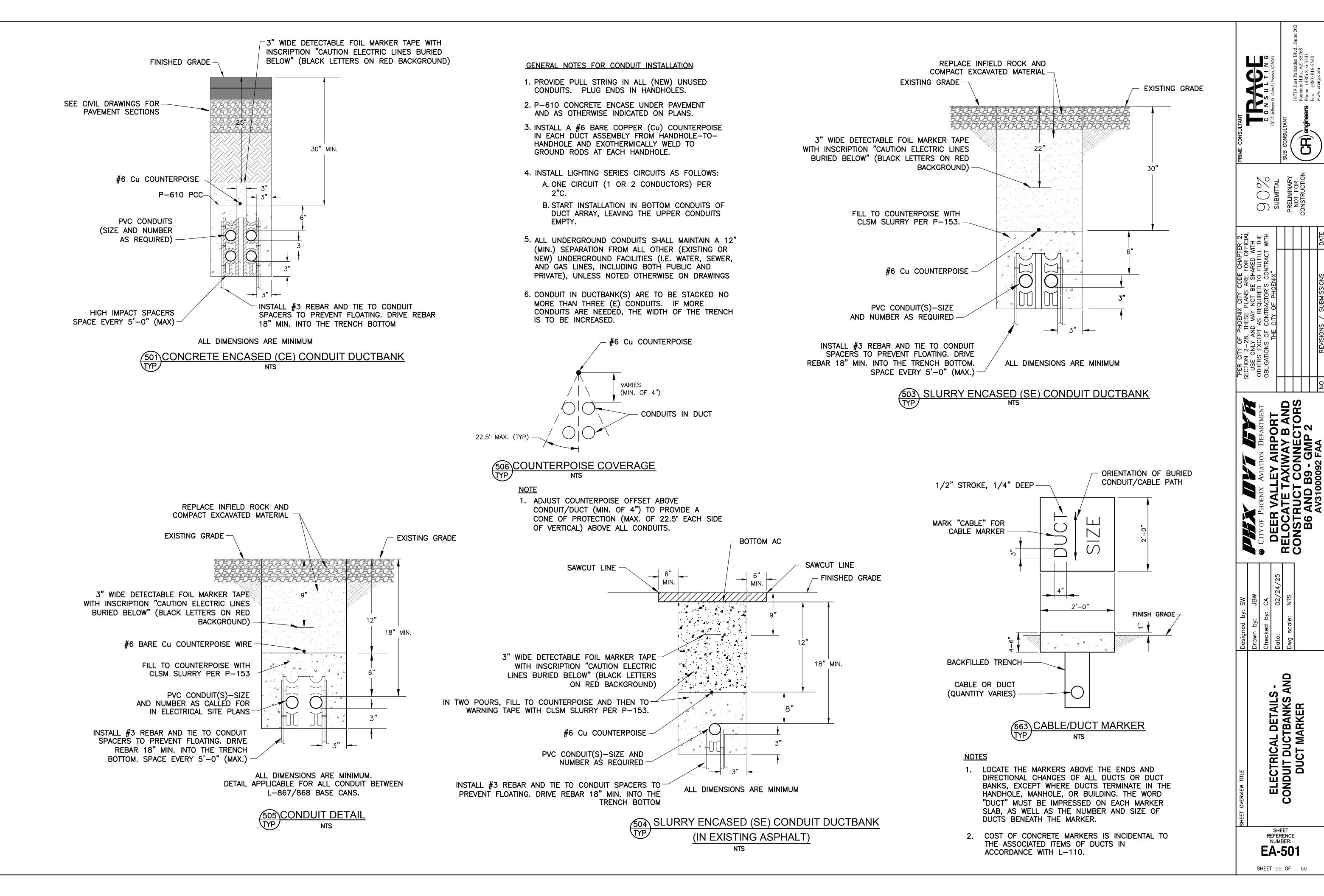








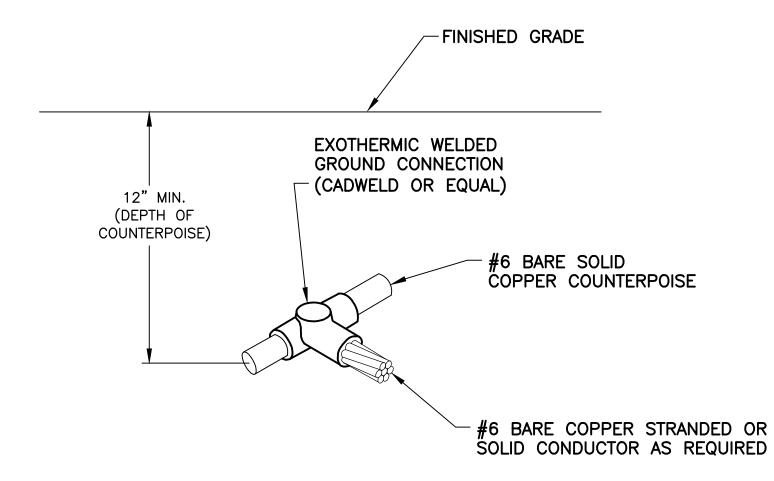




#### NOTES

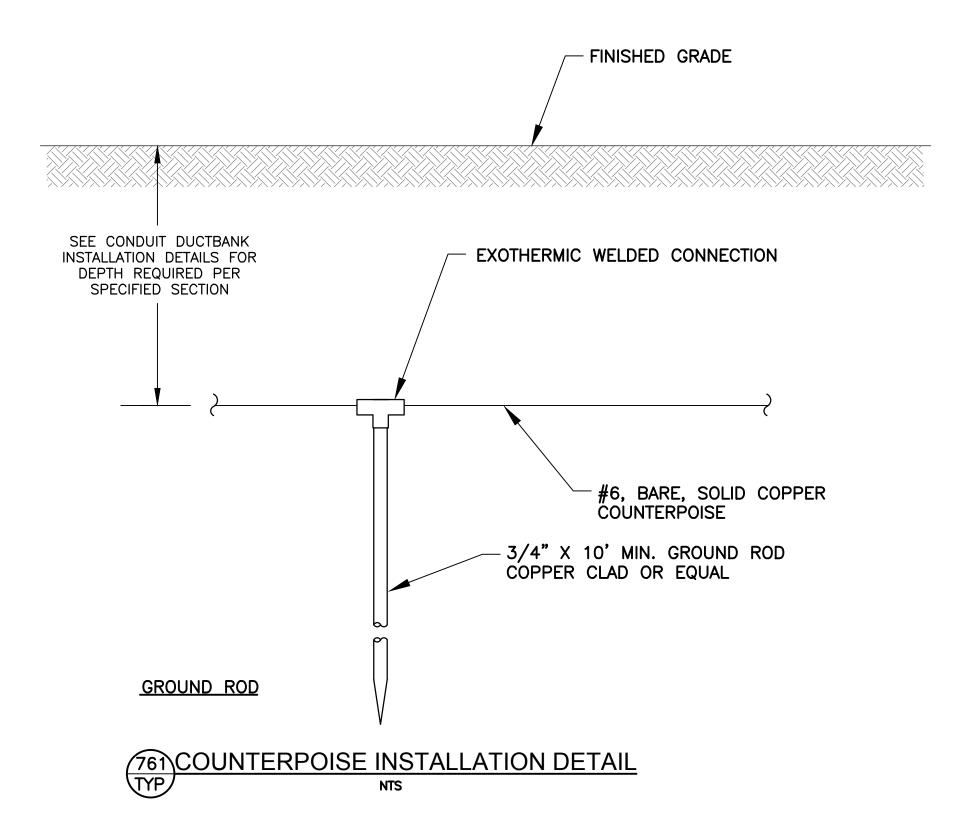
- 1. SUPPLY AN ACCESS WELL WITH GROUND ROD 20" x 12" x 15" INSIDE DIMENSIONS AS SUPPLIED BY PENCELL OR EQUAL
- 2. GROUND ROD TO BE DRIVEN 6" BELOW FINISHED GRADE.
- 3. ACCESS WELL COVER TO BE FLUSH WITH FINISHED GRADE.
- 4. WHERE TWO (2) OR MORE GROUND RODS ARE USED, THEY SHALL BE SPACED A MINIMUM OF 6 FEET APART.

CABLE TO GROUND ROD CONNECTION - GROUND WELL
NTS



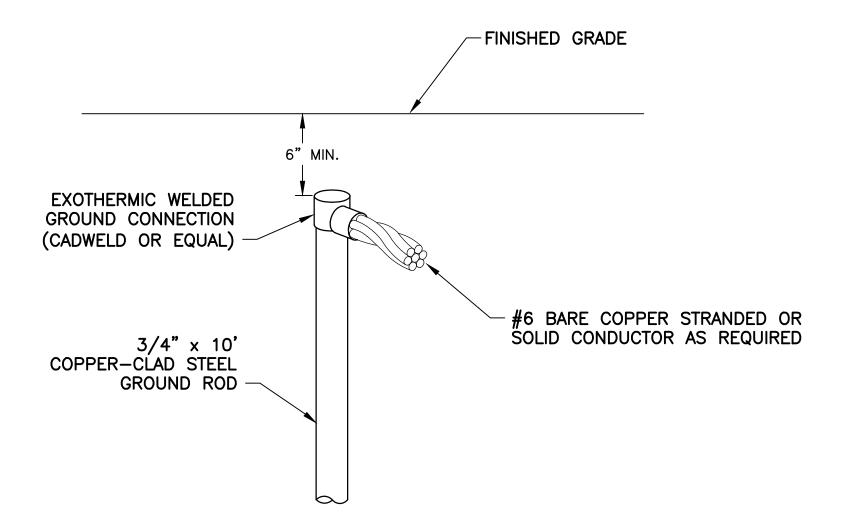
766 COUNTERPOISE TO CABLE CONNECTION DETAIL

NTS



#### <u>NOTES</u>

- 1. COST OF GROUND RODS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.
- . 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.
- 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.



CABLE TO GROUND ROD CONNECTION DETAIL

NTS

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ECTION 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"

R VALLEY AIRPORT
SATE TAXIWAY B AND
IRUCT CONNECTORS
S AND B9 - GMP 2

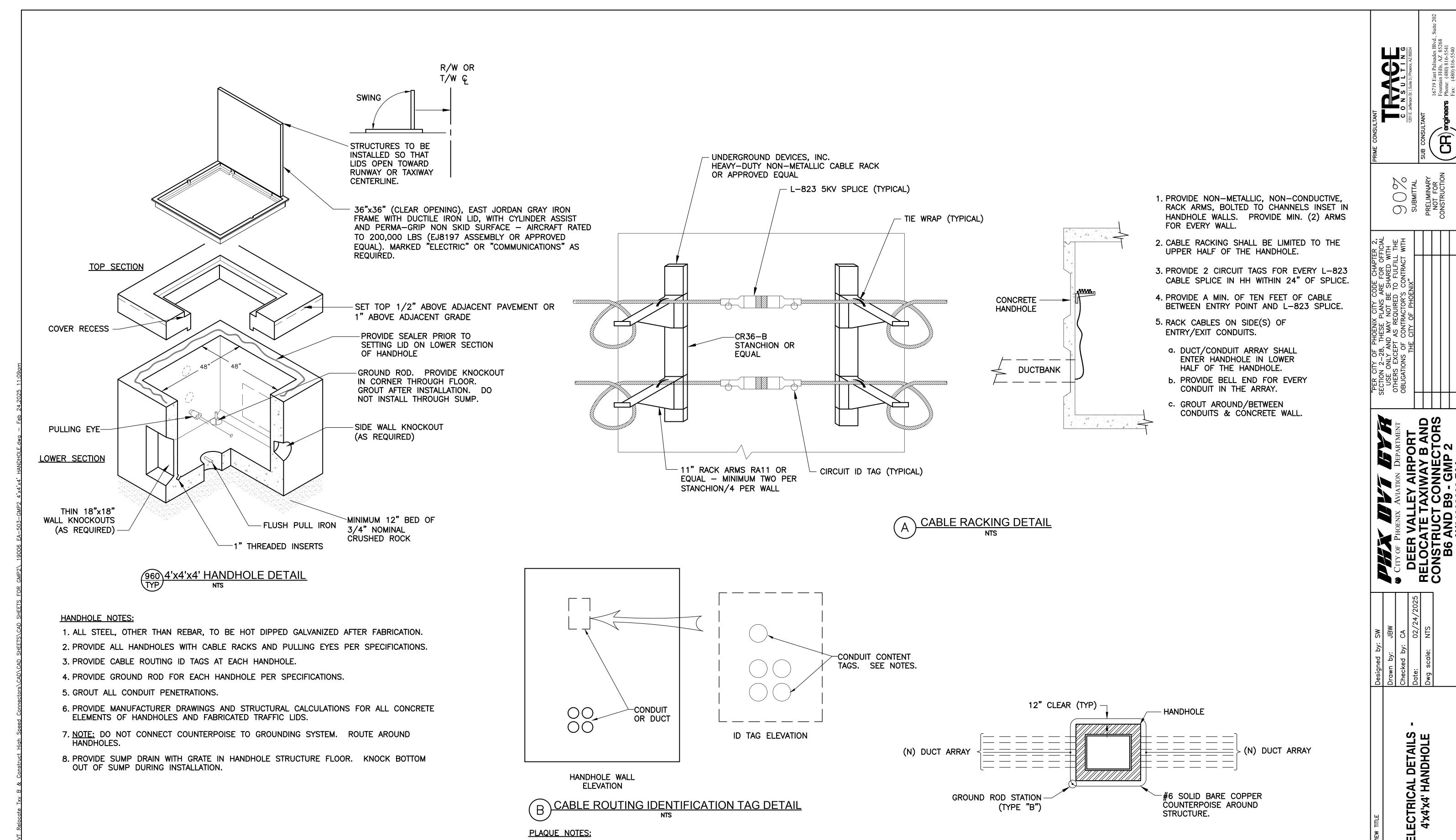
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Checked by: CA
Date: 02/24/2025
Dwg scale: NTS

ELECTRICAL DETAILS -COUNTERPOISE AND GROUNDING

SHEET
REFERENCE
NUMBER:

EA-502

**SHEET** 56 **OF** 66



1. AFFIX ENGRAVED PHENOLIC TAGS TO THE WALL WITH SILICONE

2. THE TAGS SHALL BE APPROX 1"H x 2"L AND SHALL HAVE

ADHESION.

MINIMUM 1/4" LETTERING.

SEALANT ABOVE THE DUCT OR CONDUIT ENTRY IN A WAY THAT MIMICS THE ARRAY. WIRE BRUSH CONCRETE WALL TO ASSURE

EA-503

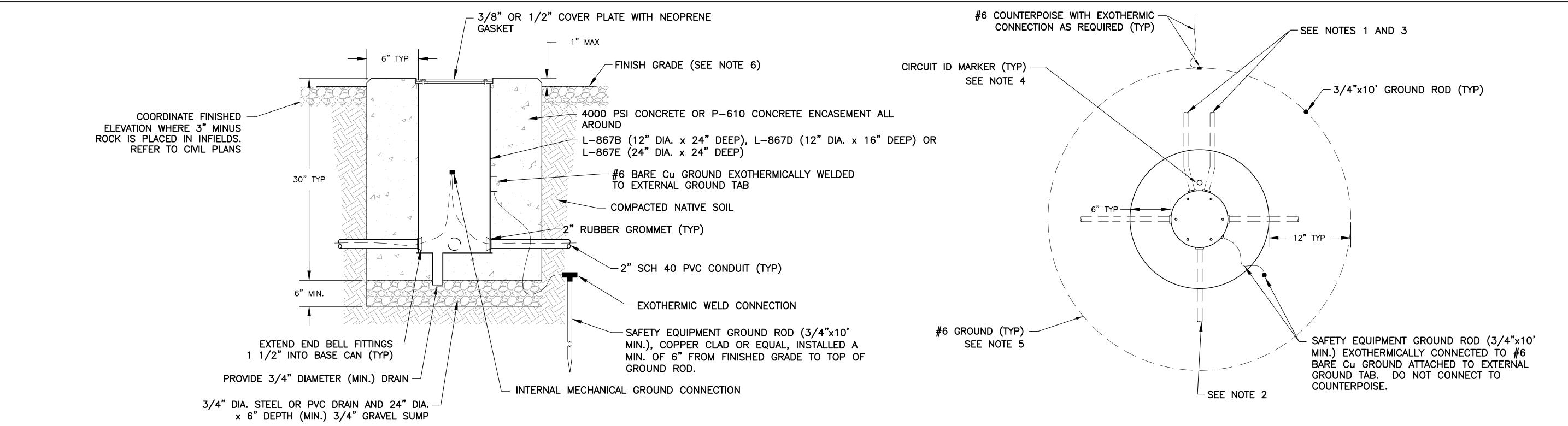
SHEET 57 OF 66

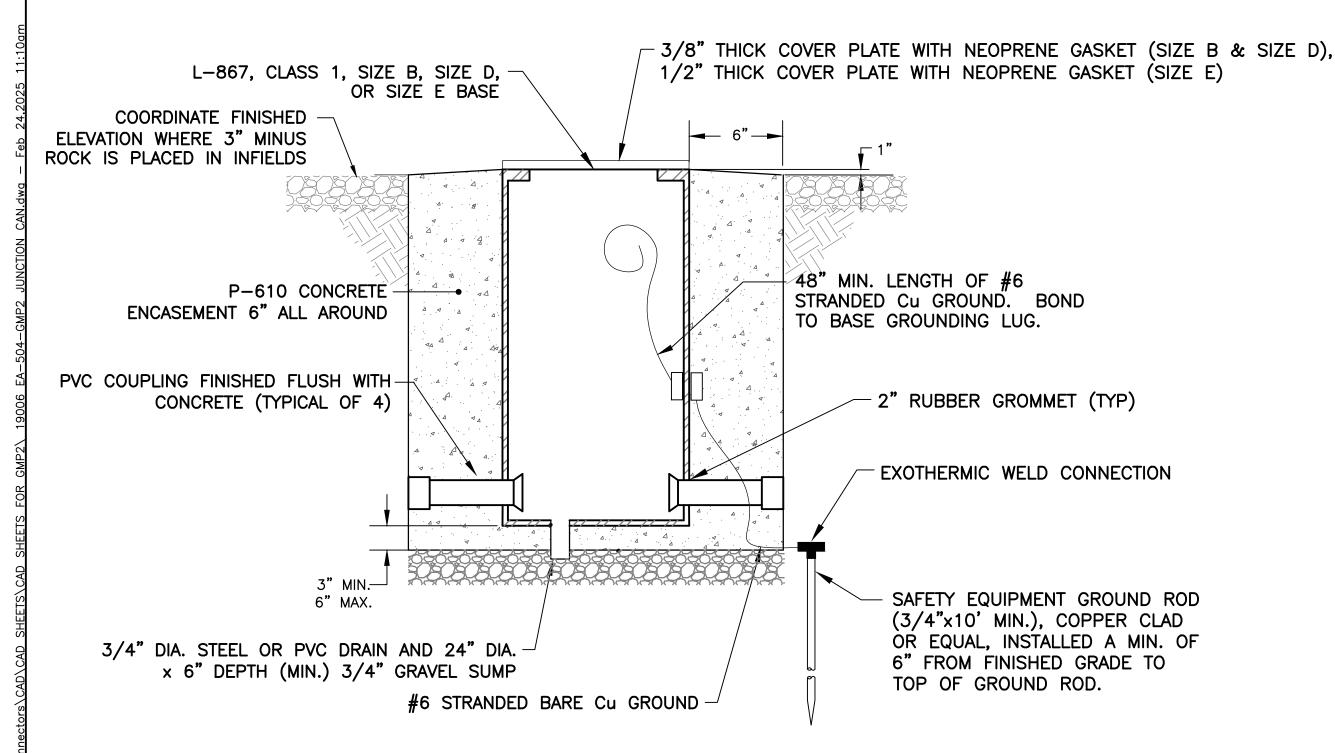
REFERENCE

ALL COUNTERPOISE WIRES FOR DUCT BANKS

AND CONDUITS TO BE EXOTHERMICALLY WELDED

TO COUNTERPOISE LOOP AROUND STRUCTURE





# PRE-CAST L-867 FIXTURE BASE/JUNCTION CAN NTS

#### **NOTES**

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

# 821 JUNCTION CAN DETAIL TYP NTS

#### NOTES:

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

# GENERAL NOTES:

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

# SUBMITTAL PRELIMINARY NOT FOR CONSTRUCTION CAN S U L T I N G 1201 E. Jefferson St. | Suite 3 | Phoenix, AZ 85034 16719 East Palisades Blvd., Suite 202 Fountain Hills, AZ 85268 CONSTRUCTION Www.creng.com

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|----|-----|--|---|
|    | · 0 | "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"   |   |
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© CITY OF PHOENIX AVIATION DEPARTME

DEER VALLEY AIRPORT

RELOCATE TAXIWAY B AN

CONSTRUCT CONNECTOR

B6 AND B9 - GMP 2

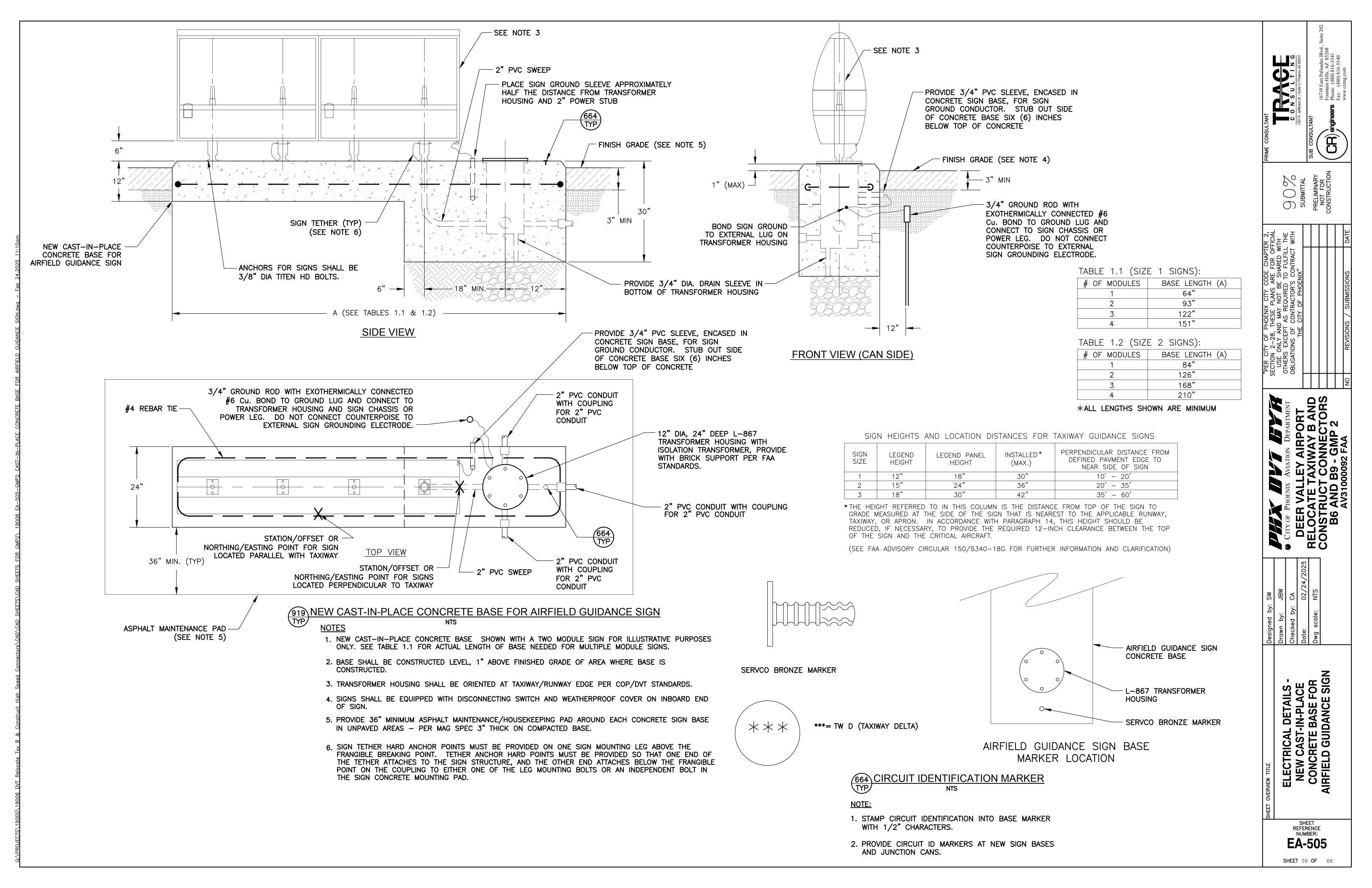
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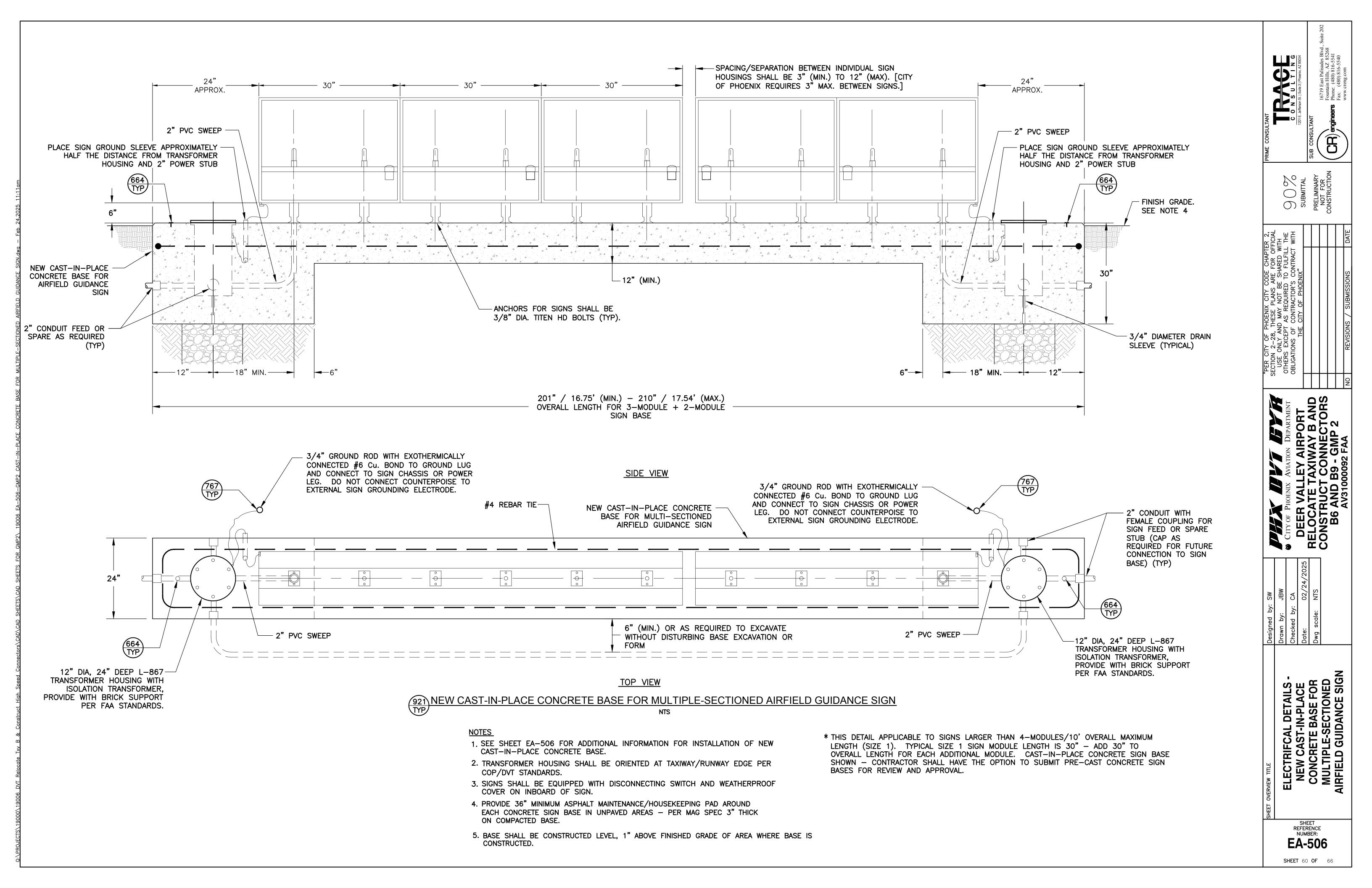
ELECTRICAL DETAILS -JUNCTION CAN

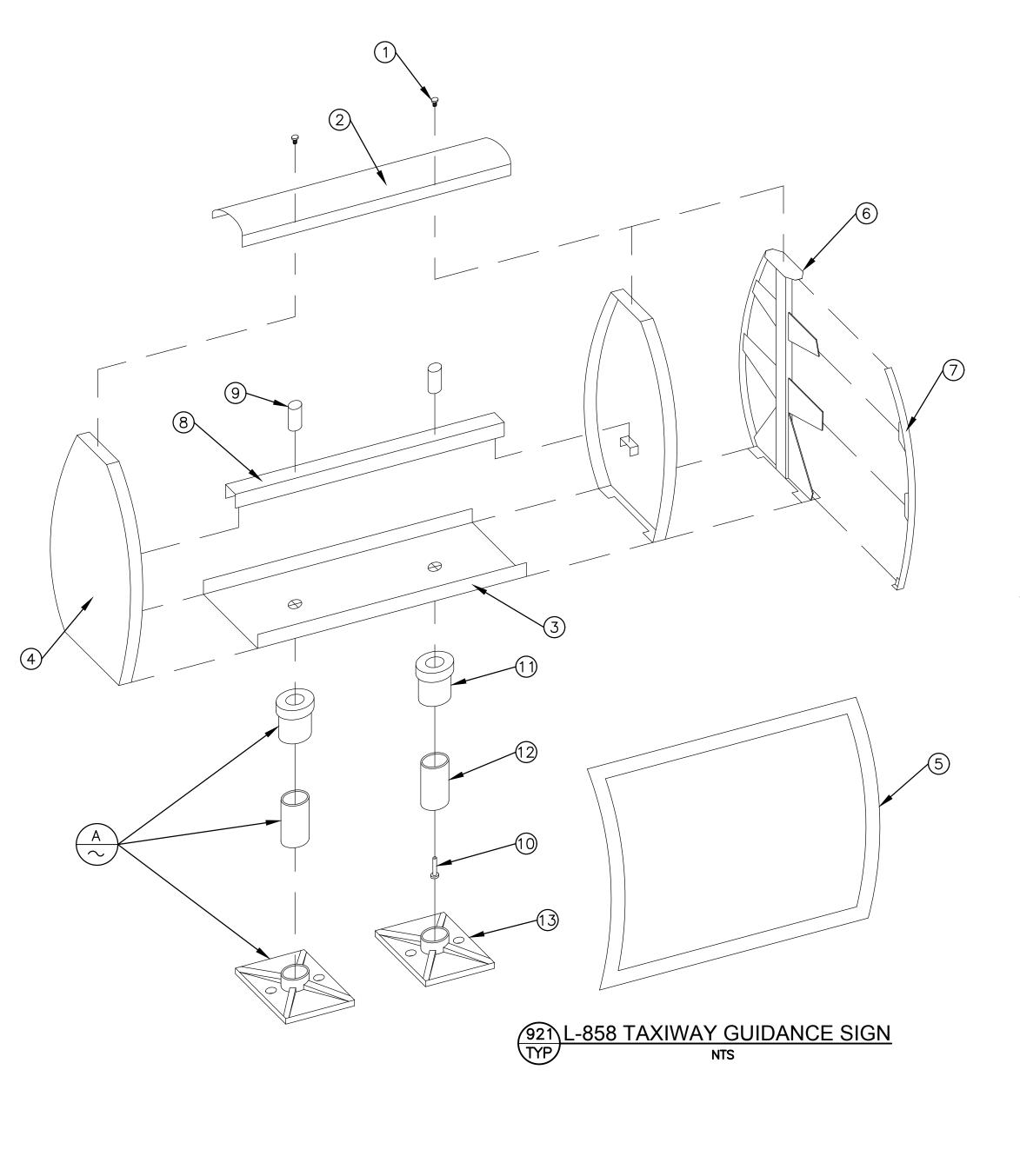
SHEET REFERENCE NUMBER:

EA-504

SHEET 58 OF 66

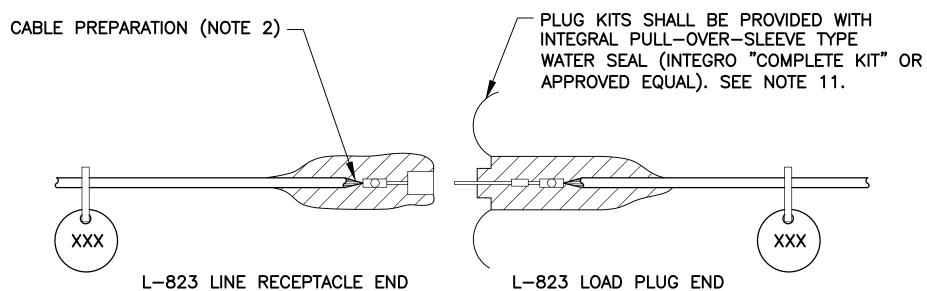






CABLE PREPARATION (NOTE 2) — 1. TURN FASTENERS THE SPLICE KIT PIN AND RECEPTACLE HOUSING 2. TOP COVER (SEE NOTE 4) ENDS SHALL BE COVERED WITH AN 8" MIN. 3. BASE (SIGN BOTTOM) SECTION OF APPROVED HEAT-SHRINKABLE 4. END PANEL (SEE NOTE 3) TUBING WITH INTERNAL ADHESIVE BEYOND THE USE SCOTCH 33+ OVER CONNECTION 5. LEGEND PANÈL PIN AND RECEPTACLE HOUSING ENDS. 6. SUPPORT JUNCTION 7. FACE INSERT PANEL JOINT 8. LAMP MOUNTING BAR 9. LAMP SOCKET 10. FAA L-823 PLUG 11. SLIP FLANGE 12. FRANGIBLE COUPLING (6" LENGTH) XXX L-823 LOAD PLUG END L-823 LINE RECEPTACLE END 13. FLOOR FLANGE

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



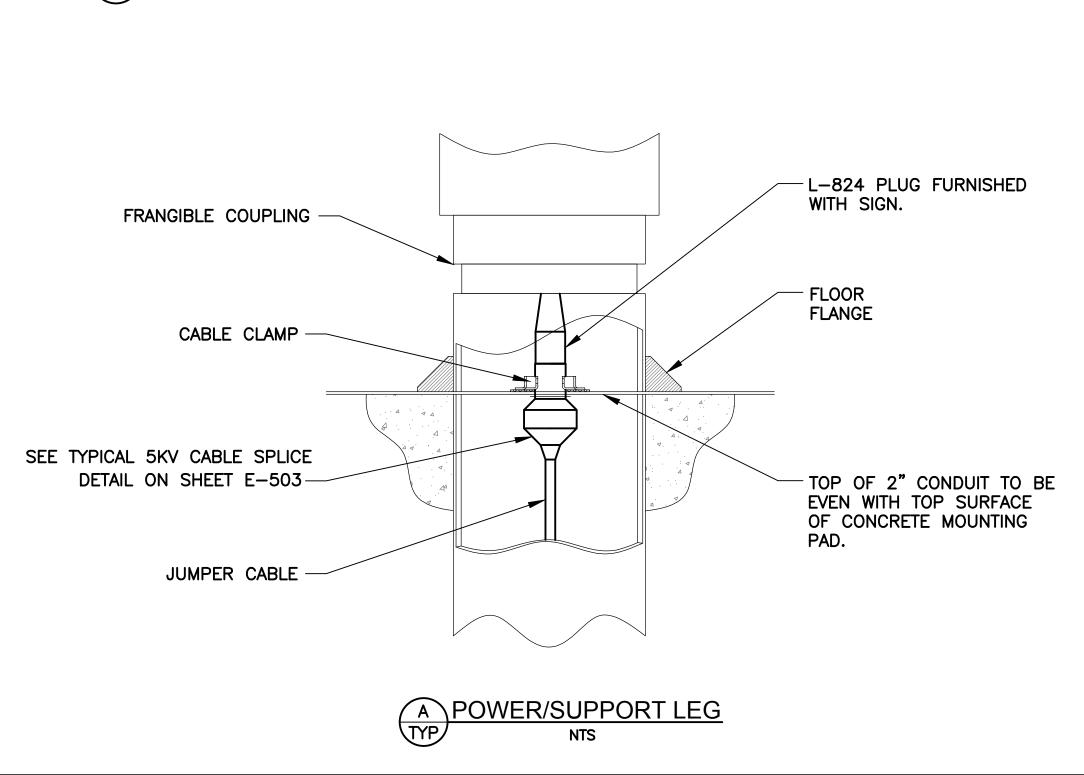
FOR SPLICES INSIDE HANDHOLES

# FOR SPLICES INSIDE CANS

### **NOTES**

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





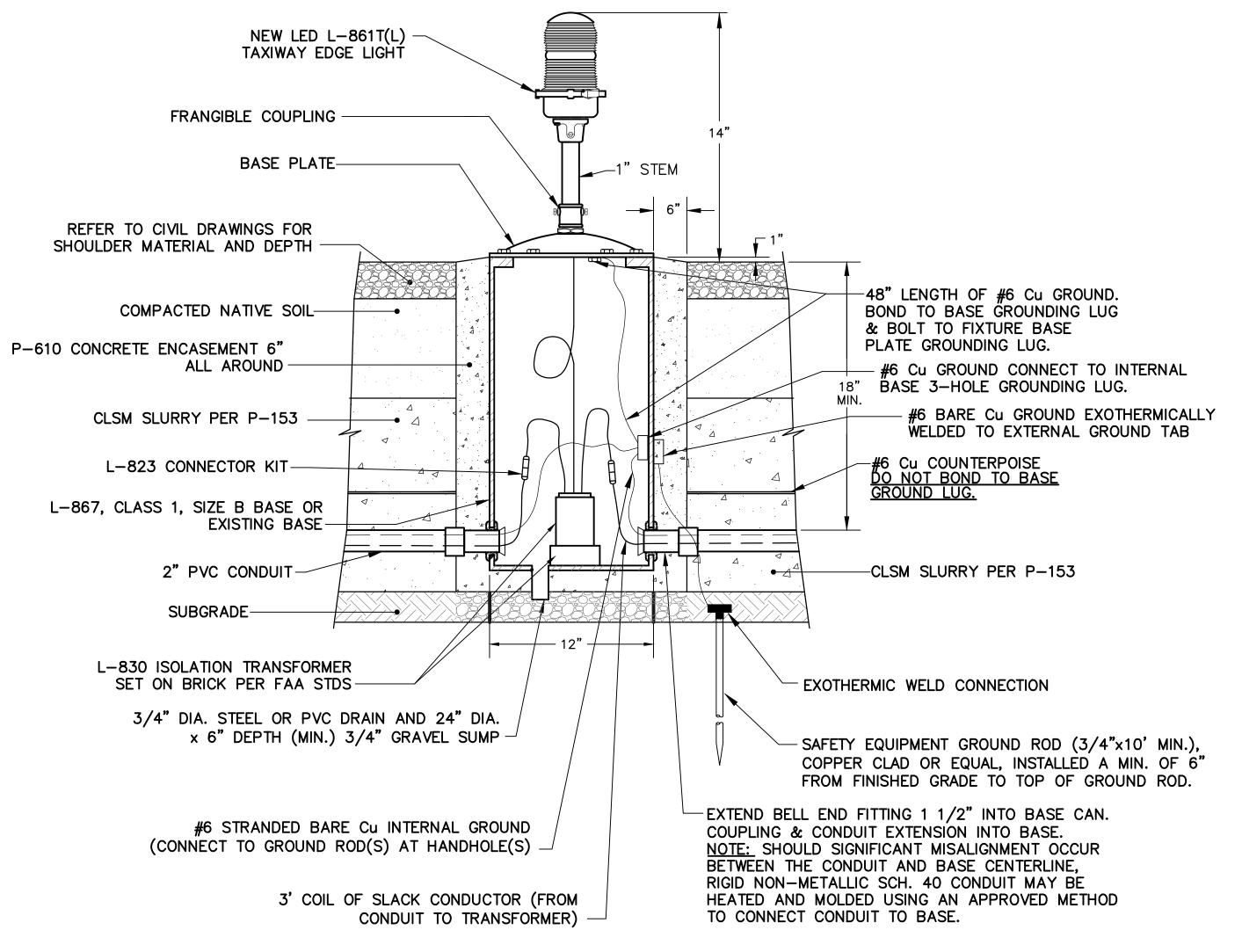


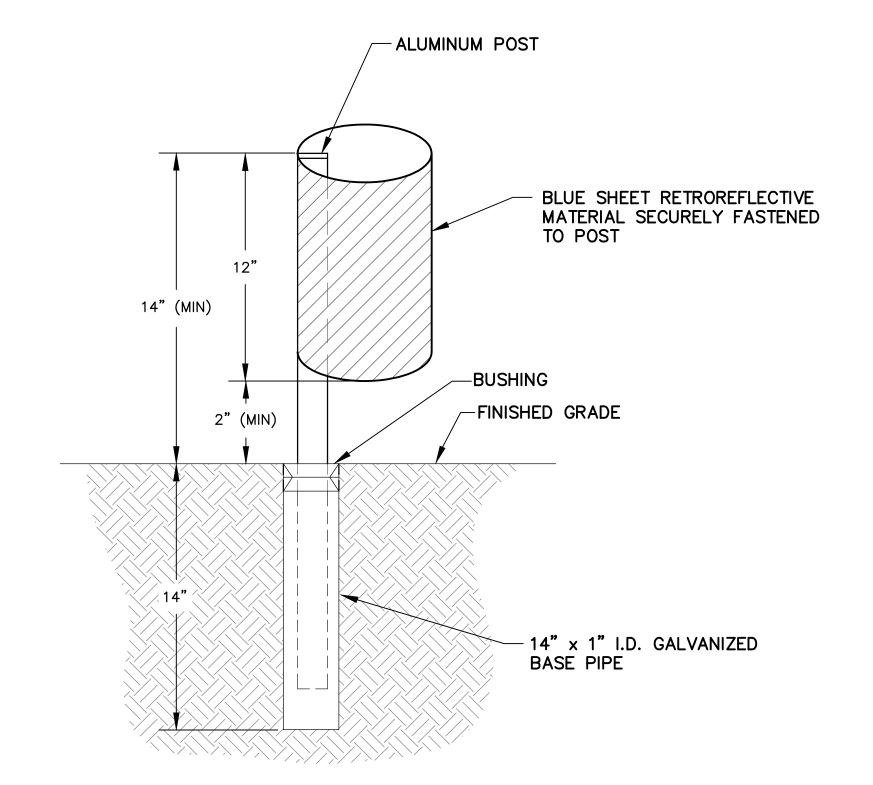
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ELECTRICAL DETAILS -L-858 AIRFIELD GUIDANCE SIGN AND 5KV CABLE SPLICI

REFERENCE **EA-507** 

**SHEET** 61 **OF** 66

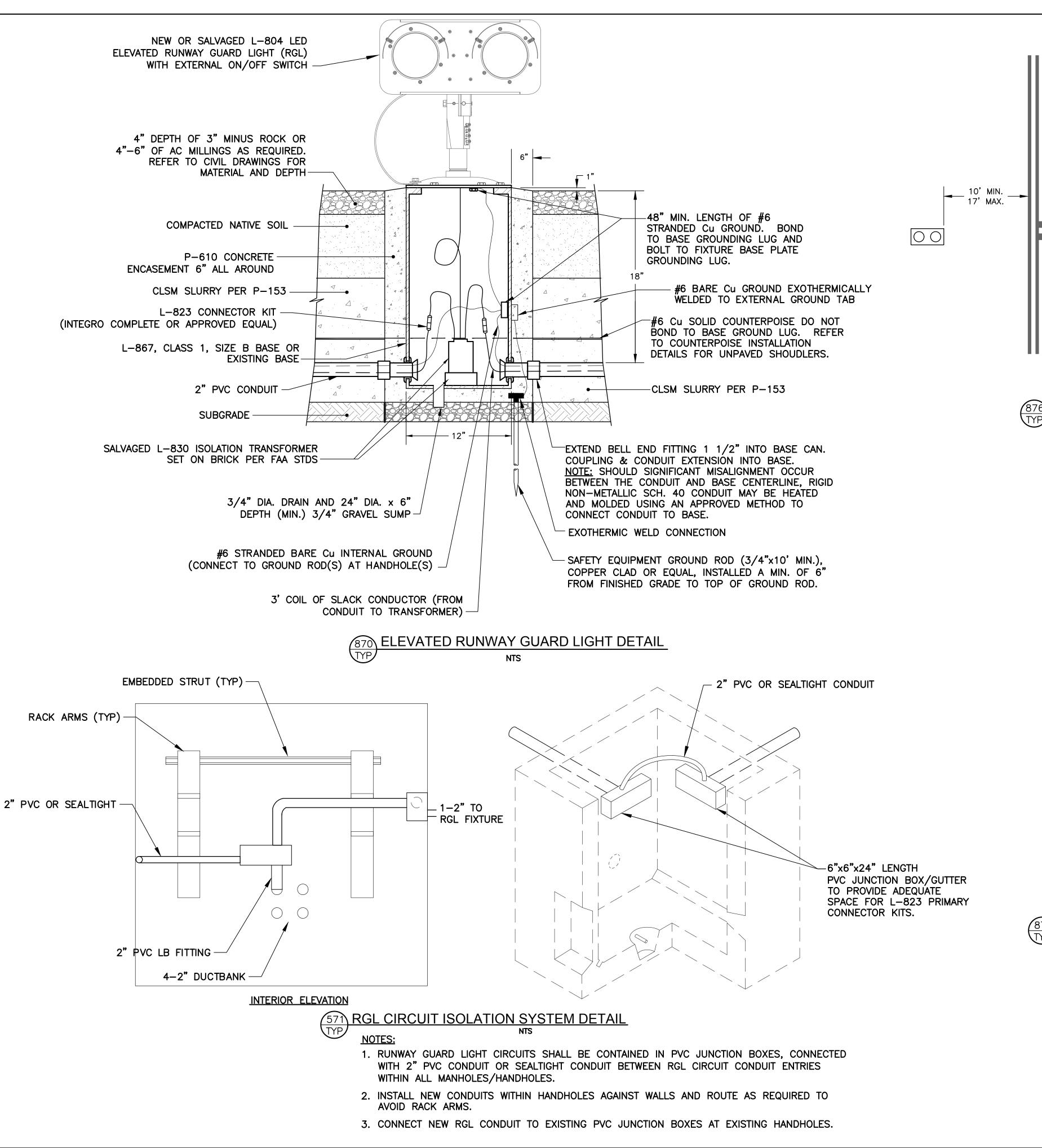


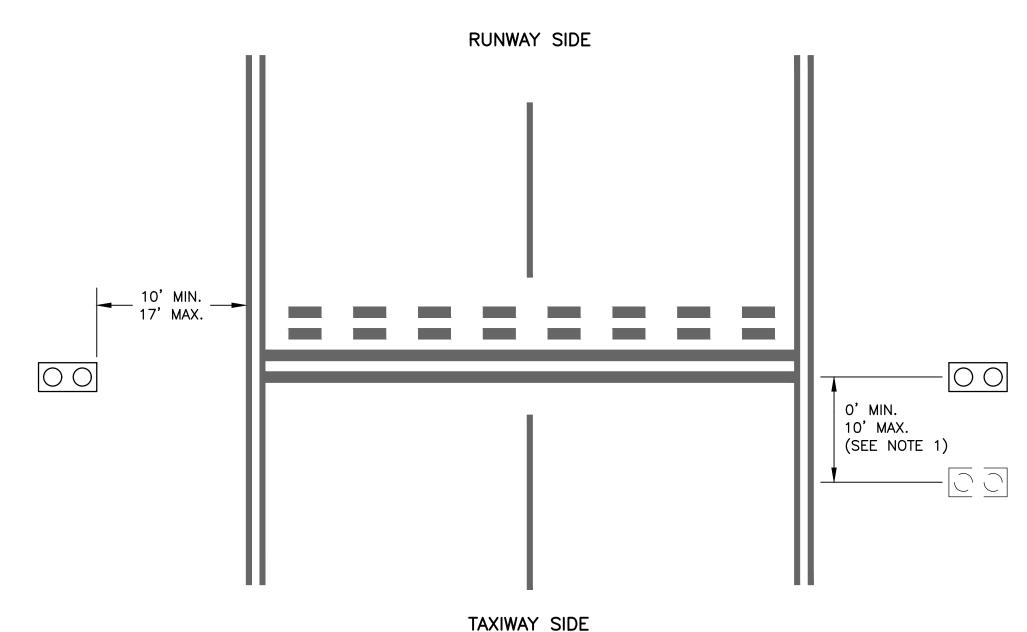


L-853 TAXIWAY RETROREFLECTIVE MARKER
NTS

891 ELEVATED TAXIWAY EDGE LIGHT DETAIL
TYP
NTS



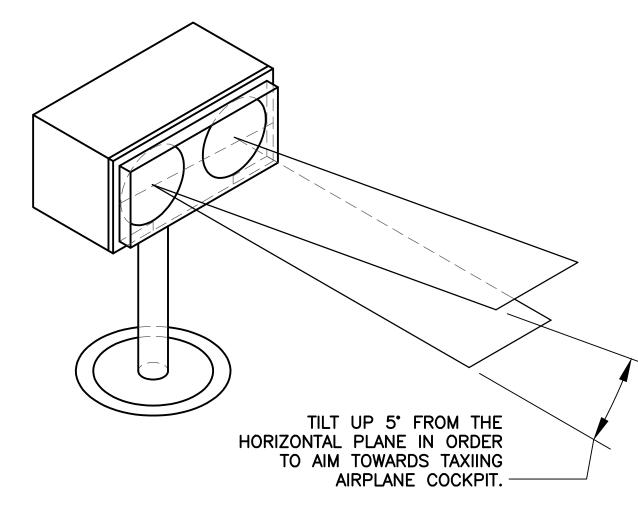




# 876 RUNWAY GUARD LIGHT CONFIGURATION

#### **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 ELEVATED RUNWAY GUARD LIGHT AIMING DETAIL

# 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.

| CONSULTANT | CONSULTANT | CONSULTANT | 16719 East Palisades Blvd., Suite FOR | CONSULTANT | 16719 East Palisades Blvd., Suite FOR | CONSULTANT | 16719 East Palisades Blvd., Suite FOR | CONSULTANT | 16719 East Palisades Blvd., Suite FOR | CONSULTANT | 16719 East Palisades Blvd., Suite FOR | CONSULTANT | 16719 East Palisades Blvd., Suite FOR | Fountain Hills, AZ 85268 |

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

HOENIX AVIATION DEPARTMENT
VALLEY AIRPORT
TE TAXIWAY B AND
UCT CONNECTORS
NND B9 - GMP 2

BE AND B9

Drawn by: JBW
Checked by: CA
Date: 02/24/2025
Dwg scale: NTS

ELECTRICAL DETAILS -RUNWAY GUARD LIGHT

SHEET REFERENCE NUMBER: **EA-509** 

**SHEET** 63 **OF** 66

| SIGN<br>NUMBER | SIGN WITH<br>FACE DESIGNATIONS                                | FACE A<br>MESSAGE | FACE B<br>MESSAGE | FACE A<br>COLOR | FACE B<br>COLOR       | SIZE | STYLE | CLASS | SHEET<br>NUMBER | SCOPE OF WORK   |
|----------------|---|-------------------|-------------------|-----------------|-----------------------|------|-------|-------|-----------------|---|
| SGN-1          | A<br>B <mark>B11→</mark>                                      | BLANK             | B11→              | В               | Y/B   Y/B             | 1    | 2     | 2     | EA-105          | NEW L-858(L), SIZE 1, 2-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-2          | A<br>B B11 7L-25R   | BLANK             | B11  7L-25R       | В               | B/Y W/R W/R W/R       | 1    | 2     | 2     | EA-105          | NEW L-858(L), SIZE 1, 4-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-3          | B  VFR WESTBOUND DEPARTS CONTACT LUKE APPROACH CONTROL 118.15 | BLANK             | **                | В               | B/Y                   | 2    | 2     | 2     | EA-105          | NEW L-858(L), SIZE 2, 2-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-4          | A B   | BLANK             | B  ←B11→          | В               | Y/B   B/Y   B/Y   B/Y | 1    | 2     | 2     | EA-105          | NEW L-858(L), SIZE 1, 4-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-5          | A<br>B <mark>B11</mark> B→                                    | BLANK             | B11   B →         | В               | Y/B   B/Y             | 1    | 2     | 2     | EA-105          | NEW L-858(L), SIZE 1, 2-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-6          | А<br>В <b>←</b> В11 В   | BLANK             | ← B11   B         | В               | B/Y   B/Y   Y/B       | 1    | 2     | 2     | EA-105          | NEW L-858(L), SIZE 1, 3-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-7          | а<br>В <mark>В11 25L-7R</mark>                                | BLANK             | B11  25L-7R       | В               | B/Y B/Y W/R W/R W/R   | 1    | 2     | 2     | EA-106          | INSTALL NEW L-858(L), SIZE 1, 3-MODULE SIGN AND ISOLATION TRANSFORMER AND NEW L-858(L), SIZE 1, 2-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW DOUBLE-ENDED SIGN BASE WITH ASPHALT MAINTENANCE PAD. SEE DETAIL 921, SHEET EA-507. |
| SGN-8          | A<br>B <b>←</b> B11   | BLANK             | ← B 11            | В               | Y/B   Y/B             | 1    | 2     | 2     | EA-106          | NEW L-858(L), SIZE 1, 2-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |
| SGN-9          | A<br>В <mark>В11→</mark>                                      | BLANK             | B11→              | В               | Y/B   Y/B             | 1    | 2     | 2     | EA-106          | NEW L-858(L), SIZE 1, 2-MODULE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE WITH ASPHALT MAINTENANCE PAD.  |

# <u>NOTES</u>

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.

\*\* =

VFR WESTBOUND DEPARTS CONTACT LUKE APPROACH CONTROL 118.15



AIRFIELD GUIDANCE SCHEDULE

SHEET
REFERENCE
NUMBER:

EA-601 **SHEET** 64 **OF** 66

# NEW TAXIWAY EDGE LIGHT LOCATIONS

| FIXTURE # | STATION   | OFFSET    | CIRCUIT        | BASE         | LAMP | TRANSFORMER | TYPE      |
|-----------|-----------|-----------|----------------|--------------|------|-------------|-----------|
| TEL-1     | 104+49.55 | 76.92'LT  | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-2     | 104+43.86 | 56.14'LT  | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-3     | 104+17.88 | 49.07' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-4     | 103+92.25 | 42.01'LT  | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-5     | 103+66.45 |           | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-6     | 103+50.00 | 34.24' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-7     | 103+33.55 | 34.94' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-8     | 103+07.75 | 42.01' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-9     | 102+81.94 | 49.07' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-10    | 77+23.82  | 56.14' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-11    | 76+85.11  | 45.54' LT | L-             | 867 BASE CA  |      | ∣<br>VER    |           |
| TEL-12    | 76+46.40  | 34.94' LT |                | ·867 BASE CA |      |             |           |
| TEL-13    | 76+46.40  | 34.94' RT |                | 867 BASE CA  |      |             |           |
| TEL-14    | 76+85.11  | 45.54' RT |                | ·867 BASE CA |      |             |           |
| TEL-15    | 77+23.82  | 56.14' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-16    | 101+18.06 | 49.07' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-17    | 100+92.25 | 42.01' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-18    | 100+66.45 | 34.94' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-19    | 100+44.30 | 34.00' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-20    | 100+22.15 | 33.06' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-21    | 100+00.00 | 32.11' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-22    | 99+77.85  | 33.06' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-23    | 99+55.70  | 34.00' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-24    | 99+33.55  | 34.94' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-25    | 99+10.05  | 41.38' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-26    | 98+86.54  | 47.82' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-27    | 98+63.03  | 54.25' LT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-28    | 98+62.99  | 54.26' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-29    | 98+86.51  | 47.82'RT  | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-30    | 99+10.03  | 41.38' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-31    | 99+33.55  | 34.94'RT  | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-32    | 99+55.70  | 34.00' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-33    | 99+77.85  | 33.06' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-34    | 100+00.00 | 32.11' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-35    | 100+22.15 | 31.17' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-36    | 100+44.30 | 30.22' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-37    | 100+66.45 | 29.28' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-38    | 100+92.25 | 28.18' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-39    | 101+18.06 | 27.50' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-40    | 101+43.86 | 27.50' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-41    | 101+81.29 | 27.50' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-42    | 102+18.71 | 27.50' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
| TEL-43    | 102+56.14 | 27.50' RT | TAXIWAY B EAST | L-867        | LED  | 10/15W      | L-861T(L) |
|           |           |           |                |              |      | <u> </u>    |           |

| TEL-44 | 102+81.94 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
|--------|-----------|-----------|----------------|-------|-----|--------|-----------|
| TEL-45 | 103+07.75 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
| TEL-46 | 103+33.55 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
| TEL-47 | 103+50.00 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
| TEL-48 | 103+66.45 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
| TEL-49 | 103+92.25 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
| TEL-50 | 104+18.06 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |
| TEL-51 | 104+43.86 | 27.50' RT | TAXIWAY B EAST | L-867 | LED | 10/15W | L-861T(L) |

# NEW HANDHOLE LOCATIONS

| HH-X | STATION   | OFFSET    | SIZE     |
|------|-----------|-----------|----------|
| HH-1 | 63+65.46  | 90.75'LT  | 4'x4'x4' |
| HH-2 | 65+43.01  | 91.15'LT  | 4'x4'x4' |
| HH-3 | 70+42.80  | 91.43'LT  | 4'×4'×4' |
| HH-4 | 102+91.80 | 66.01'LT  | 4'×4'×4' |
| HH-5 | 102+91.91 | 47.50' RT | 4'x4'x4' |
| HH-6 | 100+62.87 | 54.78'LT  | 4'x4'x4' |
| HH-7 | 100+62.96 | 49.42'RT  | 4'x4'x4' |

# NEW RETRO-FLECTIVE TAXIWAY EDGE MARKER LOCATIONS

| RRFL-# | STATION   | OFFSET    |
|--------|-----------|-----------|
| RRFL-1 | 103+42.49 | 29.89'RT  |
| RRFL-2 | 103+06.69 | 29.98'RT  |
| RRFL-3 | 102+70.90 | 30.06'RT  |
| RRFL-4 | 102+34.97 | 29.83' LT |
| RRFL-5 | 102+18.71 | 56.14'LT  |
| RRFL-6 | 101+81.29 | 56.14'LT  |

# **EQUIPMENT LOCATION STANDARDS TABLE** (PROVIDED FOR REFRENCE ONLY)

| EQUIPMENT TYPE                          | FAA LOCATION STANDARD          | NOTES   |
|---|--------------------------------|---|
| TAXIWAY EDGE LIGHT                      | 2'-10'<br>(SEE GENERAL NOTE 3) | MEASURE TO CENTER OF LIGHT FIXTURE - STATION/OFFSET GIVEN IS CENTER OF LIGHT FIXTURE (SEE FAA AC 150/5340-30) |
| RETRO-REFLECTIVE<br>TAXIWAY EDGE MARKER | 2'-10'<br>(SEE GENERAL NOTE 4) | MEASURE TO CENTER OF MARKER — STATION/OFFSET GIVEN IS CENTER OF MARKER (SEE FAA AC 150/5340-30)               |

STATION/OFFSET GIVEN IS CENTER OF HANDHOLE LID

# **GENERAL NOTES**

HANDHOLE

- 1. EQUIPMENT NUMBERS SHOWN ARE FOR CONSTRUCTION REFERENCE ONLY. COORDINATE WITH AIRPORT MAINTENANCE FOR LABELING OF ALL EQUIPMENT.
- 2. OFFSETS GIVEN FOR EACH EQUIPMENT TYPE ARE MEASURED FROM NEAREST TAXIWAY CENTERLINE (ALIGNMENT).
- 3. 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.
- 4. CONTRACTOR TO ENSURE NEW RETRO-REFLECTIVE TAXIWAY EDGE MARKER LOCATIONS DO NOT EXCEED 10 FEET FROM EDGE OF FULL STRENGTH PAVEMENT/OUTER EDGE OF TAXIWAY EDGE MARKING AND IF APPLICABLE, ARE IN-LINE WITH EXISTING RETRO-REFLECTIVE TAXIWAY EDGE MARKER LOCATIONS - PERFORM FIELD ADJUSTMENTS AS NECESSARY. CONTRACTOR SHALL CONFIRM ANY DIFFERENCES OF MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF RETRO-REFLECTIVE TAXIWAY EDGE MARKER LOCATIONS ARE BEING PERFORMED, WITH ENGINEER <u>BEFORE</u> INSTALLATION.

**EQUIPMENT** 

SHEET REFERENCE **EA-602** 

**SHEET** 65 **OF** 66

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SHEET REFERENCE NUMBER: **EA-603** 

**SHEET** 66 **OF** 66

# NEW AIRFIELD GUIDANCE SIGN LOCATIONS

| SIGN         STATION         OFFSET           SGN-1         104+45.37         89.25' LT           SGN-2         103+00.50         51.63' LT           SGN-3         103+00.50         65.63' LT           SGN-4         77+07.46         59.29' LT           SGN-5         102+56.14         35.50' RT           SGN-6         101+34.89         61.31' LT           SGN-7         100+49.50         37.99' RT |       |           |          |
|--|-------|-----------|----------|
| SGN-2       103+00.50       51.63' LT         SGN-3       103+00.50       65.63' LT         SGN-4       77+07.46       59.29' LT         SGN-5       102+56.14       35.50' RT         SGN-6       101+34.89       61.31' LT   | SIGN  | STATION   | OFFSET   |
| SGN-3 103+00.50 65.63' LT  SGN-4 77+07.46 59.29' LT  SGN-5 102+56.14 35.50' RT  SGN-6 101+34.89 61.31' LT  | SGN-1 | 104+45.37 | 89.25'LT |
| SGN-4 77+07.46 59.29' LT SGN-5 102+56.14 35.50' RT SGN-6 101+34.89 61.31' LT   | SGN-2 | 103+00.50 | 51.63'LT |
| SGN-5 102+56.14 35.50' RT<br>SGN-6 101+34.89 61.31' LT   | SGN-3 | 103+00.50 | 65.63'LT |
| SGN-6 101+34.89 61.31' LT  | SGN-4 | 77+07.46  | 59.29'LT |
|  | SGN-5 | 102+56.14 | 35.50'RT |
| SGN-7 100+49.50 37.99' RT  | SGN-6 | 101+34.89 | 61.31'LT |
|  | SGN-7 | 100+49.50 | 37.99'RT |
| SGN-8 98+66.08 62.32' LT   | SGN-8 | 98+66.08  | 62.32'LT |
| SGN-9 98+66.07 79.23' RT   | SGN-9 | 98+66.07  | 79.23'RT |

# NEW RUNWAY GUARD LIGHT LOCATIONS

| RGL-# | STATION   | OFFSET    |
|-------|-----------|-----------|
| RGL-1 | 103+00.50 | 47.76' LT |
| RGL-2 | 103+00.53 | 31.50' LT |
| RGL-3 | 100+49.47 | 38.21'LT  |
| RGL-4 | 100+49.53 | 33.99'RT  |

# NEW JUNCTION CAN LOCATIONS

| JC-# | STATION   | OFFSET    | TYPE (SIZE)      |
|------|-----------|-----------|------------------|
| JC-1 | 103+89.96 | 109.23'LT | L-867D (16" DIA) |

# EQUIPMENT LOCATION STANDARDS TABLE

(PROVIDE FOR REFERENCE ONLY)

| EQUIPMENT TYPE                    | FAA LOCATION STANDARD                            | NOTES  |
|-----------------------------------|--|--|
| SIZE 1 AIRFIELD<br>GUIDANCE SIGNS | 10' - 20'<br>(SEE NOTE 3)                        | MEASURE TO SIGN EDGE CLOSEST TO TAXIWAY EDGE/OUTER TAXIWAY EDGE MARKING (SEE FAA AC 1505340-18)  |
| SIZE 2 AIRFIELD<br>GUIDANCE SIGNS | 20' - 35'<br>(SEE NOTE 3)                        | MEASURE TO SIGN EDGE CLOSEST TO TAXIWAY EDGE/OUTER TAXIWAY EDGE MARKING (SEE FAA AC 1505340-18)  |
| JUNCTION CAN                      |  | STATION/OFFSET GIVEN IS CENTER OF JUNCTION CAN COVER PLATE   |
| RUNWAY GUARD<br>LIGHT (RGL)       | 10' – 17'<br>(NEAR SIDE OF<br>INSTALLED FIXTURE) | MEASURE FROM TAXIWAY EDGE/OUTER TAXIWAY EDGE MARKING. STATION/OFFSET GIVEN IS CENTER OF BASE CAN ON WHICH RGL FIXTURE IS MOUNTED. (SEE FAA AC 150/5340-30) |

# **GENERAL NOTES**

- 1. EQUIPMENT NUMBERS SHOWN ARE FOR CONSTRUCTION REFERENCE ONLY. COORDINATE WITH AIRPORT MAINTENANCE FOR LABELING OF ALL EQUIPMENT.
- 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.