

YUMA INTERNATIONAL AIRPORT

YUMA, ARIZONA



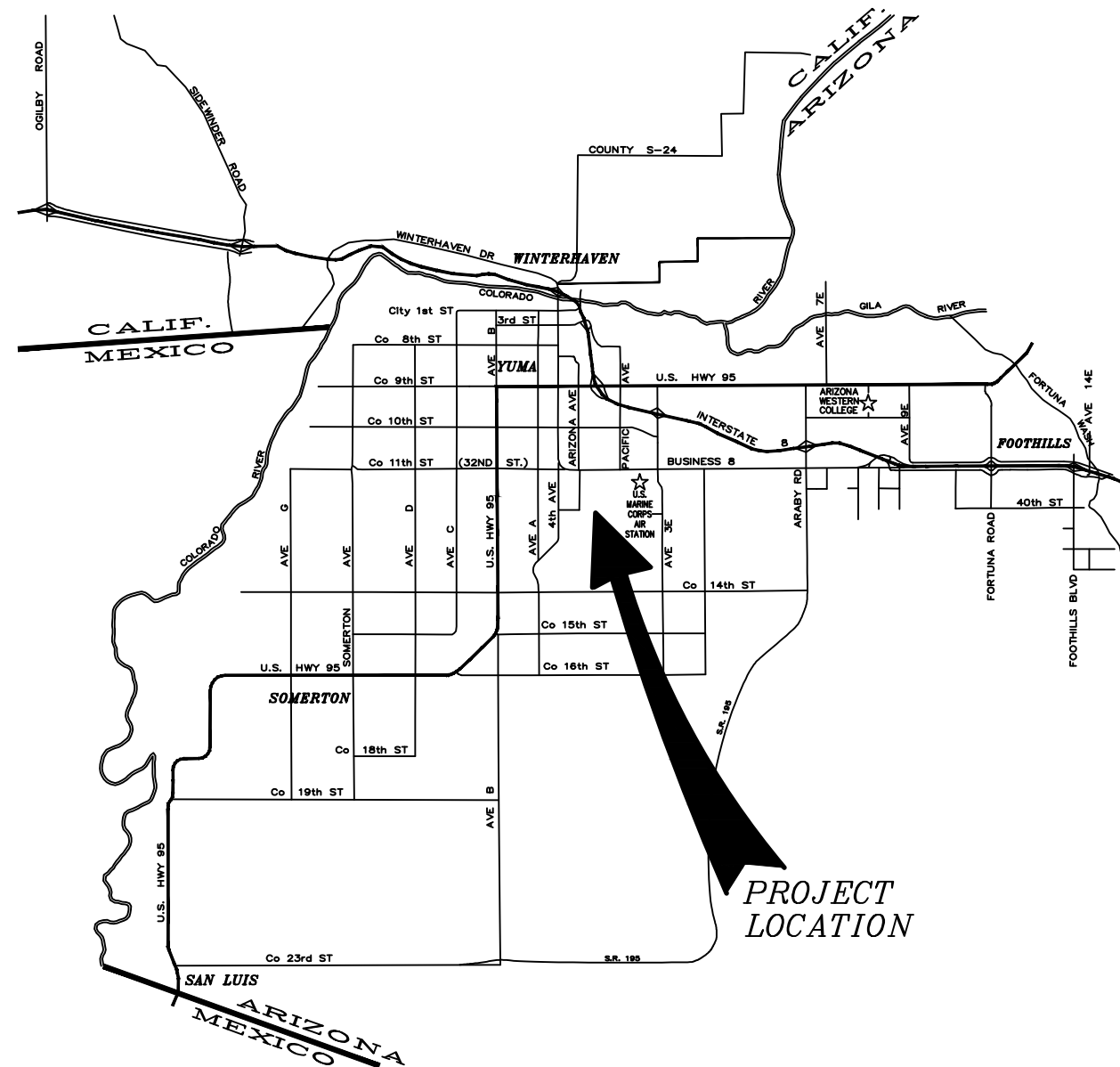
TAXIWAY F1 REHABILITATION

APRIL OF 2024
FAA GRANT NO. 3-04-0053-049-2024

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LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.

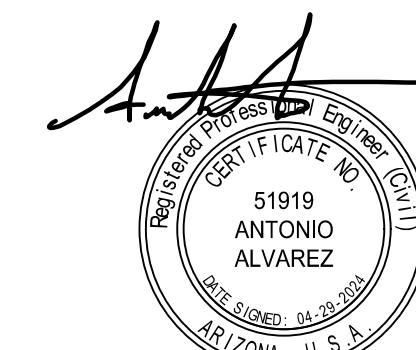


AERIAL MAP
N.T.S.



UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

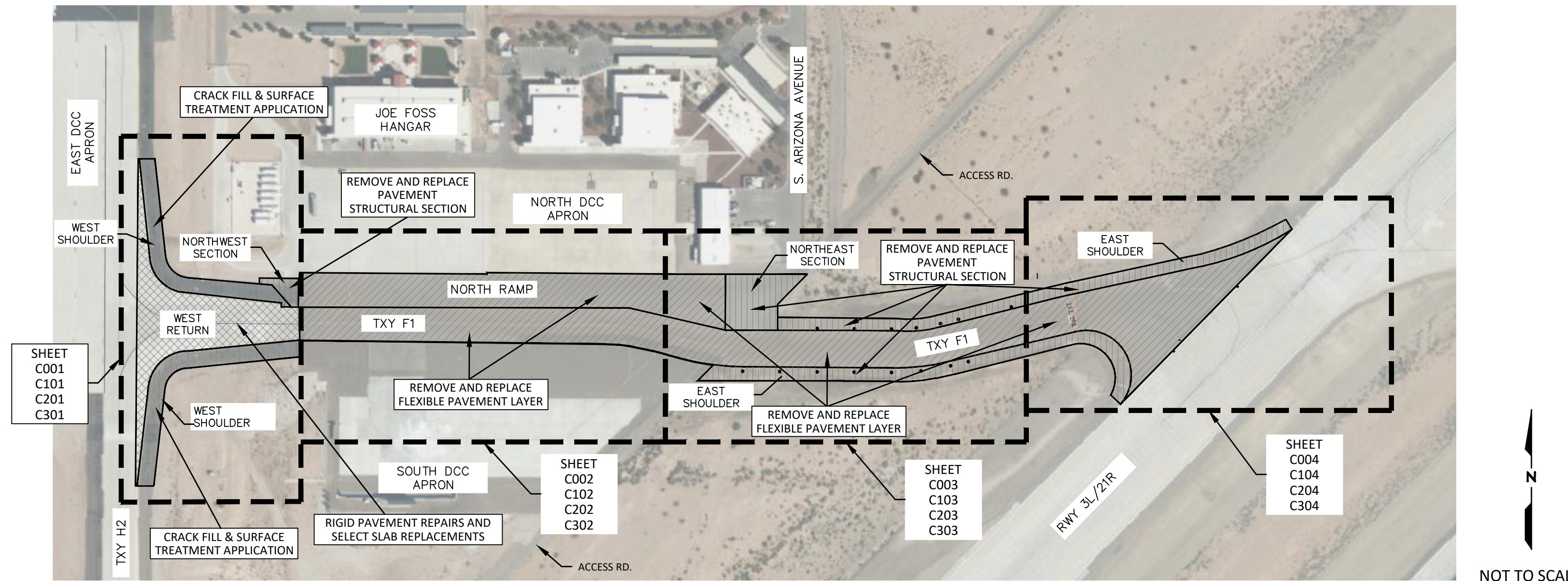


TAXIWAY F1 REHABILITATION	
COVER SHEET	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 1 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
G001	

N:\2023\023-0005\0000_Taxiway F1_Rehabilitation\02_Civil\02 - Drawings\023-0005_Taxiway F1_Rehabilitation_100%_dwg

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KEY MAP:



NOTE: THE LIMITS AND WORK SHOWN ABOVE ARE FOR ILLUSTRATION PURPOSES. SEE SPECIFIC SHEETS FOR DESIGNATED APPLICABLE LIMITS AND WORK.

GENERAL NOTES:

- ALL WORK SHALL BE COORDINATED WITH THE YUMA COUNTY AIRPORT AUTHORITY OPERATIONS STAFF. CONTACT: JUAN TRASVINA, OPERATIONS DIRECTOR (928)726-5882 EXT 160 (928) 750-6778 YUMA INTERNATIONAL AIRPORT 2192 EAST 32ND STREET, SUITE 218 YUMA, ARIZONA 85365
- CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION STANDARDS AND SPECIFICATIONS, AS WELL AS ANY CITY OF YUMA STANDARD CONSTRUCTION SPECIFICATIONS AND CONSTRUCTION STANDARD DETAIL DRAWINGS. IN THE EVENT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS FOR THIS PROJECT AND THE CITY OF YUMA STANDARD SPECIFICATIONS AND DETAILS, THE CONTRACT DOCUMENTS FOR THIS PROJECT SHALL PREVAIL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BADGING AND LICENSES REQUIRED UNDER THIS CONTRACT. ALL CONTRACTOR PERSONNEL WILL BE FINGER PRINTED AND BACKGROUND CHECKED PRIOR TO ANY WORK.
- CONTRACTOR SHALL EMPLOY A PROFESSIONAL UTILITY LOCATOR TO CHECK UTILITIES WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND LICENSES REQUIRED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL NOTIFY YUMA INTERNATIONAL AIRPORT IN WRITING, THROUGH THE ENGINEER, A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE TO OBTAIN CLEARANCE FOR WORK. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED DOCUMENTS STATED IN THE PROJECT MANUAL, INCLUDING A SCHEDULE FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.
- EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WAS COMPILED BASED ON THE BEST UTILITY RECORDS PROVIDED TO THE ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ANY ABANDONED UTILITIES SHALL BE REMOVED BY THE CONTRACTOR. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONTACT ARIZONA 811 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION TO DETERMINE THE LOCATION OF ACTIVE UTILITIES WITHIN THE PROJECT VICINITY.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXTENTS OF WHICH IS PRESENTLY NOT KNOWN. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AT THEIR OWN INITIATIVE AND EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL YUMA INTERNATIONAL AIRPORT PROPERTY AND SHALL LOCATE AND PROTECT FROM DAMAGE OR DISTURBANCE ALL BUILDINGS, STRUCTURES, PAVEMENT, UTILITIES, BENCHMARKS, LAND MONUMENTS, AND PROPERTY MARKERS. ALSO INCLUDED IN THE PRESERVATION ARE ALL WASTE, LAYDOWN, PLANT, EMPLOYEE PARKING, AND STAGING AREA SITES. IF DAMAGE TO PROPERTY DOES OCCUR DURING THE WORK, THE CONTRACTOR SHALL RESTORE, AT THEIR OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE WAS DONE, BY REBUILDING OR RESTORING AS DIRECTED BY THE ENGINEER.
- SAFETY AND SECURITY - SAFETY AND SECURITY IS THE CONTRACTOR'S RESPONSIBILITY. THE ENGINEER SHALL PROVIDE A CONSTRUCTION SAFETY & PHASING PLAN THAT DETAILS ALL SAFETY AND SECURITY MEASURES. THE CONSTRUCTION SAFETY AND PHASING PLAN WILL BE APPROVED BY AIRPORT OPERATIONS AND FAA.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH AC 150/5370-10H, ITEM C-102. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN WHICH MAY BE PERTINENT TO THIS PROJECT. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS THE FIRST STEP IN GRADING OPERATIONS. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AFTER COMPLETION OF THE PROJECT. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM. OTHER MEASURES MAY BE REQUIRED BY THE EROSION CONTROL INSPECTOR. CONTRACTOR SHALL FURNISH AND INSTALL ALL MEASURES REQUIRED TO COMPLY WITH APPLICABLE REGULATIONS. REMOVE EROSION CONTROL MEASURES WHEN THE SITE HAS STABILIZED.
- OTHER WORK (GRADING, EXCAVATING, AND CONSTRUCTION) ON THE PROJECT SHALL NOT COMMENCE UNTIL THE APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AS SPECIFIED ON THE PLAN.
- PROVIDE POSITIVE DRAINAGE AT ALL GRADED AREAS.
- PROVIDE UNIFORM (STRAIGHT) GRADE BETWEEN SPOT ELEVATIONS, FINISH CONTOURS, TOP OF INLETS, ETC.
- PROTECT ALL EXISTING SURVEY MONUMENTS. ESTABLISH SUPPLEMENTAL SURVEY REFERENCE POINTS AS NEEDED TO COMPLETE REQUIRED CONSTRUCTION ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADING AND TRAFFIC CONTROL REQUIRED TO MAINTAIN SAFE AND SECURE ACCESS THROUGHOUT THE AIRPORT. CONES AND BARRICADES WILL BE REQUIRED TO DELINEATE ALL AREAS IN EACH PHASE OF WORK WHERE CONTRACTOR FORCES ARE PERMITTED ACCESS. CONTRACTOR ACCESS AND TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE AIRPORT DIRECTOR, SEE PROJECT SPECIAL PROVISIONS AND AIRPORT SAFETY PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND RECORDING EXISTING PAVEMENT PRIOR TO DEMOLITION OR ANY OTHER REHABILITATION WORK.
- CONTRACTOR SHALL PROVIDE GRADE TO SUBGRADE ELEVATION REQUIRED. PROVIDE POSITIVE DRAINAGE AT ALL GRADED AREAS.
- CONSTRUCTION STAKING AND QA MATERIALS TESTING SHALL BE PROVIDED BY OWNER. THE CONTRACTOR SHALL PROVIDE ALL QUALITY CONTROL MATERIALS TESTING.
- ALL TRENCHING OR ANY METHODS REQUIRED TO INSTALL ANY UNDERGROUND ITEMS SHOULD RESULT IN REPLACEMENT OF ANY DAMAGED OR DISTURBED INFRASTRUCTURE. CONTRACTOR TO REPLACE AND MATCH DISTURBED INFRASTRUCTURE. IN THE CASE OF PAVEMENT, CONTRACTOR IS TO MATCH THE EXISTING PAVEMENT STRUCTURAL SECTION THICKNESS, MATCH
- ALL EXISTING MARKINGS DISTURBED/DEMOLISHED DURING REPAIRS SHALL BE RE-STRIPED TO MATCH EXISTING. ALL STRIPING SHALL BE IN ACCORDANCE WITH AC 150/5370-10F P.620. CONTRACTOR SHALL REPAIR ACCESS DRIVE AS NECESSARY UPON COMPLETION OF CONSTRUCTION.
- CONSTRUCTION WATER WILL BE AVAILABLE THROUGH FIRE HYDRANTS, LOCATED OUTSIDE THE AIRPORT PROPERTY.

PROJECT DIRECTORY

YUMA COUNTY AIRPORT AUTHORITY
AIRPORT OPERATIONS
2191 E 32ND STREET
YUMA, ARIZONA 85365
SUPERVISOR: (928)726-5882 EXT. 2215

NICKLAUS ENGINEERING INC
1851 W 24TH STREET SUITE 101
YUMA, ARIZONA 85364
(928) 344-8374

WSP USA ENVIRONMENT & INFRASTRUCTURE INC
16414 SAN PEDRO AVE, SUITE 425
SAN ANTONIO, TEXAS 78232
(210)491-6057

DESERT SURVEYING AND ENGINEERING
670 E 32ND STREET SUITE 2
YUMA, ARIZONA 85364
(928)446-5774

ABBREVIATIONS

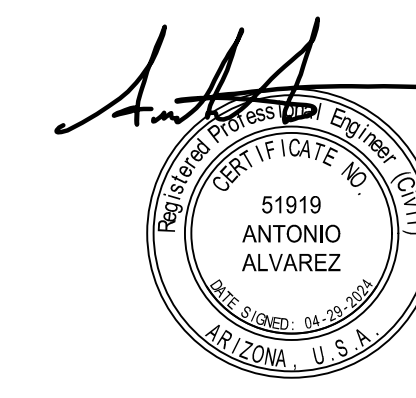
AC (A)	ASPHALT CONCRETE
AOA	AIR OPERATIONS AREA
APPROX	APPROXIMATE
ADG	AIRPLANE DESIGN GROUP
CL	CENTERLINE
COMM	COMMUNICATION
CONC	CONCRETE
COY	CITY OF YUMA
CSPP	CONSTRUCTION SAFETY & PHASING PLAN
CY	CUBIC YARD
DIA	DIAMETER
EA	EACH
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FOD	FOREIGN OBJECT DEBRIS
FT	FEET/FOOT
G	GUTTER
GRD	GROUND
HH	HANDHOLE
IE	INVERT ELEVATION
IN	INCH
MIN	MINIMUM
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MCAS	MARINE CORPS AIR STATION
MH	MANHOLE
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OFA	OBJECT FREE AREA
OFF	OFFSET
OFZ	OBSTACLE FREE ZONE
PC	POINT OF CURVE
PCC	PORTLAND CEMENT CONCRETE
PI	POINT OF INTERSECTION
POB	POINT OF BEGINNING
POE	POINT OF ENDING
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PM	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVRC	POINT OF VERTICAL REVERSE CURVE
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
ROFA	RUNWAY OBJECT FREE AREA
RSA	RUNWAY SAFETY AREA
RT	RIGHT
RWA	RUNWAY
S	SLOPE
SD	STORM DRAIN
STA	STATION
SY	SQUARE YARD
TEL	TELEPHONE
TOFA	TAXIWAY OBJECT FREE AREA
TSA	TAXIWAY SAFETY AREA
UNO	UNLESS NOTED OTHERWISE

LEGEND (ALL SHEETS)

○	FOUND EXISTING SURVEY MONUMENTS (TYPE AS SHOWN)
---	MATCH LINE
---	EXISTING STRIPING
---	NEW STRIPING
---	EXISTING CHAIN LINK FENCE
---	EXISTING WATER LINE
---	EXISTING SANITARY SEWER
---	EXISTING SEPTIC LINE
---	EXISTING OVERHEAD ELECTRICAL LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING FLEXIBLE PAVEMENT
---	EXISTING RIGID PAVEMENT
---	EXISTING RIP RAP
---	EXISTING DIRT ROAD
⊕	EXISTING ELECTRICAL HANDHOLE
⊕EMH	EXISTING ELECTRICAL MANHOLE
⊕TD	EXISTING AIRCRAFT TIE-DOWN
⊕PP	EXISTING POWER POLE
⊕	EXISTING ELECTRICAL BOX
⊕	EXISTING ELECTRICAL VAULT
⊕MW	EXISTING MONITORING WELL
⊕SMH	EXISTING SANITARY SEWER MANHOLE
⊕HB	EXISTING HOSE BIB
⊕	EXISTING LIGHT POLES
⊕	EXISTING TAXIWAY EDGE LIGHT
⊕	EXISTING TAXIWAY REFLECTIVE MARKER
⊕	EXISTING SIGN
⊕	EXISTING BUSH
⊕	EXISTING ELECTRICAL PANEL BOX
⊕	EXISTING FIBER OPTIC BOX
⊕	EXISTING COMMUNICATION BOX
⊕	EXISTING FUEL TANK
⊕	EXISTING SLOPE
190.00	EXISTING GROUND ELEVATION
A 190.00	EXISTING ASPHALT ELEVATION
190.00 TOP	EXISTING TOP OF SLOPE ELEVATION
190.00 TOE	EXISTING BOTTOM OF SLOPE ELEVATION
190.00 CONC	EXISTING CONCRETE ELEVATION
⊕CL	PROJECT CORE LOCATION
---	REMOVE EXISTING FLEXIBLE PAVEMENT LAYER
---	REMOVE EXISTING PAVEMENT STRUCTURE SECTION
---	NEW ELECTRICAL LINE
---	NEW FLEXIBLE PAVEMENT (ASPHALT LAYER ONLY)
---	NEW FLEXIBLE PAVEMENT (FULL STRUCTURAL SECTION)
---	NEW FLEXIBLE PAVEMENT CRACK FILL AND SURFACE TREATMENT
---	NEW ASPHALT ELEVATION
---	NEW TAXIWAY EDGE LIGHT
---	NEW ELECTRICAL HANDHOLE
---	NEW ELECTRICAL MAINTENANCE HOLE

UTILITY WARNING

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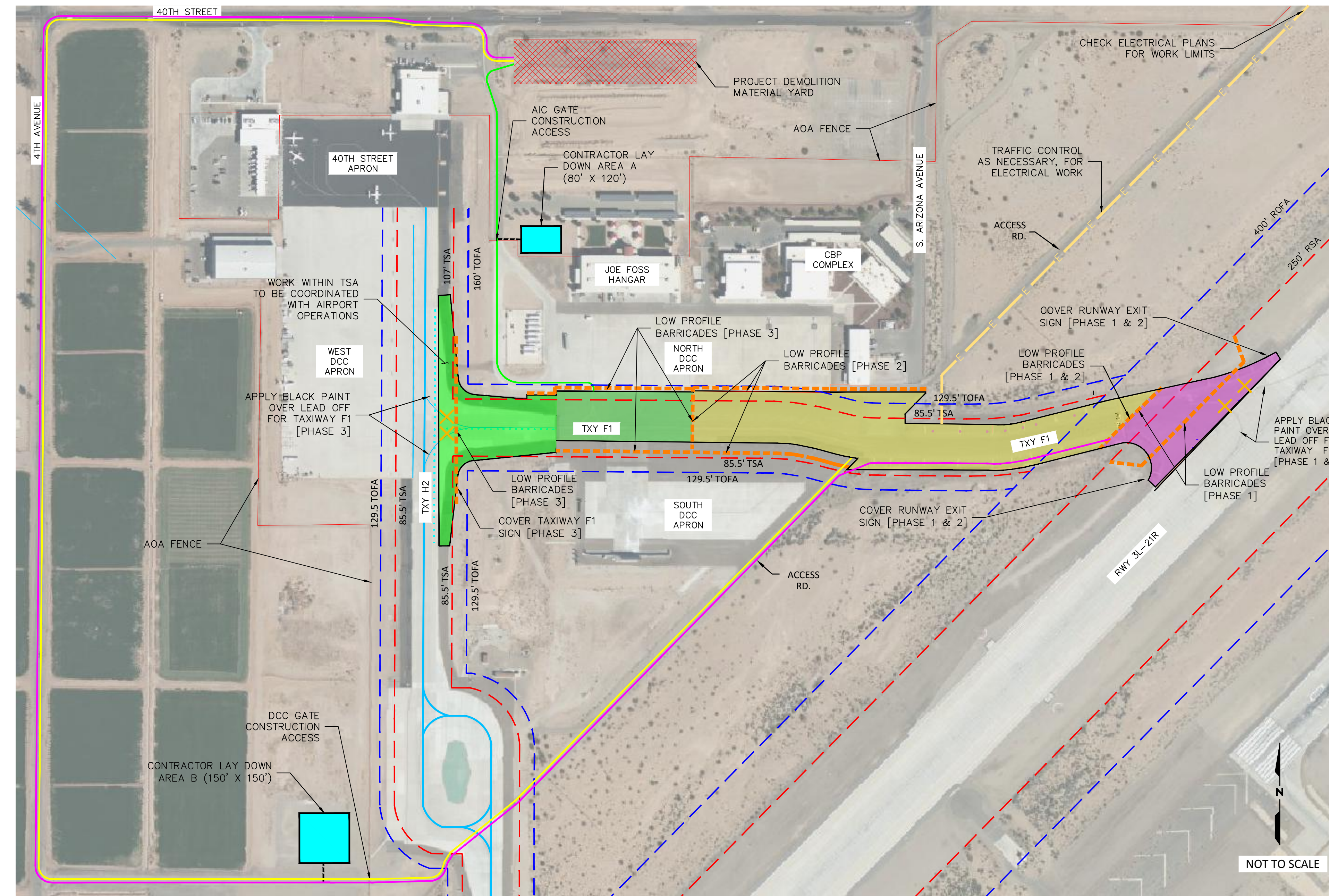


TAXIWAY F1 REHABILITATION															
KEY MAP, GENERAL NOTES, ABBREVIATIONS, AND LEGEND															
<p>NICKLAUS ENGINEERING, INC.</p> <p>1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com</p>	<table border="0"> <tr><td>SCALE:</td><td>AS SHOWN</td></tr> <tr><td>DATE:</td><td>APRIL, 2024</td></tr> <tr><td>DES. BY:</td><td>STAFF</td></tr> <tr><td>DRAWN BY:</td><td>JMC</td></tr> <tr><td>SURVEYED BY:</td><td>DSE</td></tr> <tr><td>JOB. No.:</td><td>023-0005</td></tr> <tr><td>SHEET</td><td>2 OF 47</td></tr> </table>	SCALE:	AS SHOWN	DATE:	APRIL, 2024	DES. BY:	STAFF	DRAWN BY:	JMC	SURVEYED BY:	DSE	JOB. No.:	023-0005	SHEET	2 OF 47
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G002															

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PHASING MAP:



PHASING PLAN LEGEND

	PHASE 1 - "EAST AREA"	TXY	TAXIWAY
	PHASE 2 - "MIDDLE AREA"	RWY	RUNWAY
	PHASE 3 - "WEST AREA"	TSA	TAXIWAY SAFETY AREA
	STOCKPILE LOCATION	TOFA	TAXIWAY OBJECT FREE AREA
	BARRICADES	RSA	RUNWAY SAFETY AREA
	PHASE 1 HAUL ROUTE	ROFA	RUNWAY OBJECT FREE AREA
	PHASE 2 HAUL ROUTE	X	TAXIWAY CLOSURE MARKER
	PHASE 3 HAUL ROUTE	X	RUNWAY CLOSURE MARKER
	PROPOSED ELECTRICAL WORK		

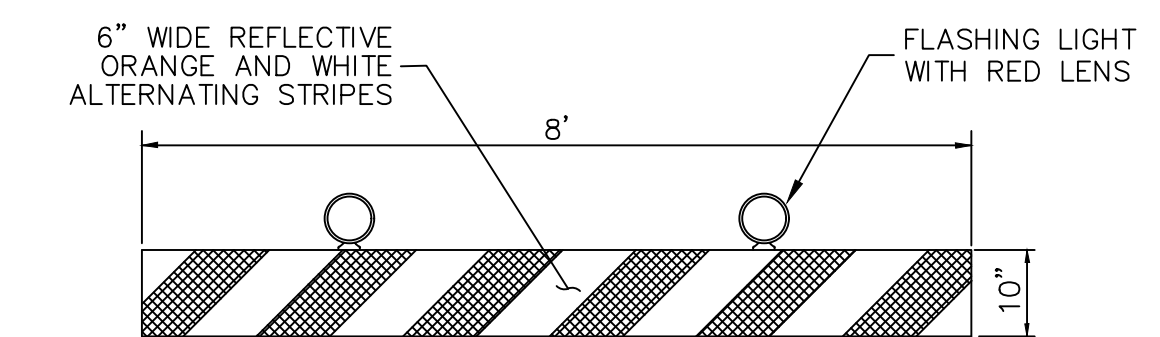
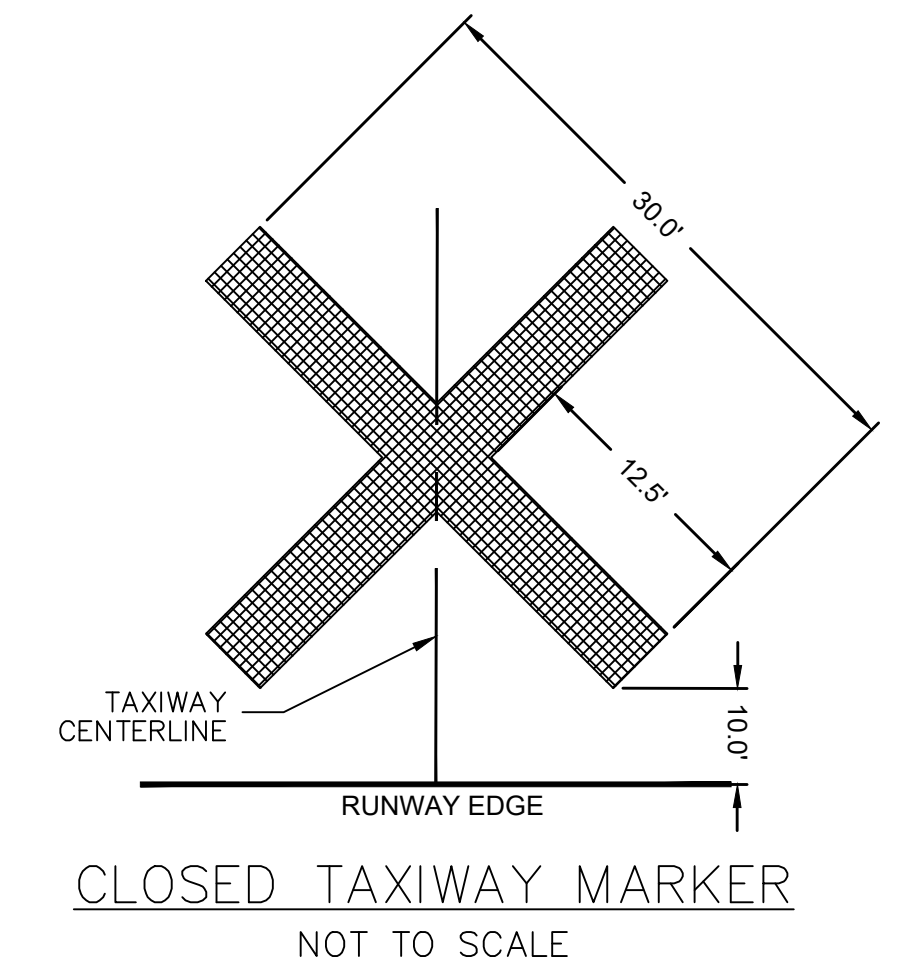
PHASE NOTES

PHASE	CALENDAR DAYS	AIRFIELD CLOSURES	MAJOR WORK ELEMENTS	MAJOR WORK RESTRICTIONS
1	45	PARTIAL CLOSURE OF TAXIWAY F1 [EAST AREA] NO DIRECT ACCESS TO RUNWAY 3L-21R FROM TAXIWAY F1. CLOSURE OF RUNWAY 3L-21R FOR ANY WORK ON THE RUNWAY OR ANY WORK WITHIN THE TSA.	TAXIWAY FLEXIBLE PAVEMENT LAYER REPLACEMENT. SHOULDER'S PAVEMENT STRUCTURAL SECTION REPLACEMENT. NEW TAXIWAY EDGE LIGHTING AND MARKINGS.	CHECK CSPP FOR WTI DATES. NO RUNWAY CLOSURES ARE ALLOWED DURING THE SPECIFIED WTI DATES. NO EQUIPMENT SHALL ENTER THE RUNWAY OR RSA WITHOUT APPROVAL.
2	80	PARTIAL CLOSURE OF TAXIWAY F1 [EAST & MIDDLE AREAS]. NO DIRECT ACCESS BETWEEN RUNWAY RUNWAY 3L-21R AND TAXIWAY F1. RUNWAY 3L-21R SHALL NOT BE CLOSED DURING THIS PHASE.	TAXIWAY AND APRON FLEXIBLE PAVEMENT LAYER REPLACEMENT. SHOULDER'S PAVEMENT STRUCTURAL SECTION REPLACEMENT. NEW TAXIWAY EDGE LIGHTING AND MARKINGS.	NO EQUIPMENT SHALL BE ALLOWED TO ENTER THE NORTH DCC APRON COMPLEX AREA. RUNWAY 3L-21R SHALL REMAIN OPEN AND OPERATIONAL DURING PHASE 2.
3	60	PARTIAL CLOSURE OF TAXIWAY F1 [WEST AREA] LIMITED CLOSURE OF TAXIWAY H2 FOR WORK WITHIN CURRENT TSA LIMITS. ACCESS BETWEEN TAXIWAY H2 AND TAXIWAY F1 WILL BE LIMITED.	TAXIWAY AND APRON FLEXIBLE PAVEMENT LAYER REPLACEMENT. SHOULDER PAVEMENT CRACK SEAL AND SURFACE TREATMENT. SELECT CONCRETE SLAB REPLACEMENT AND OTHER REPAIRS. NEW TAXIWAY EDGE LIGHTING AND MARKINGS.	NO EQUIPMENT SHALL ENTER ENTER TAXIWAY H2 OR TSA WITHOUT APPROVAL. RUNWAY 3L-21R SHALL REMAIN OPEN AND OPERATIONAL DURING PHASE 3.

PHASING AND SAFETY NOTES:

- CONTRACTOR SHALL COMPLY WITH PROJECT'S CONSTRUCTION SAFETY AND PHASING PLAN (CSPP).
- CONTRACTOR SHALL COMPLY WITH SPECIFICATION SECTION SS-103 FOR ADDITIONAL REQUIREMENTS OF THE CSPP.
- CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR EACH SPECIFIC PHASE AND ELECTRICAL WORK OUTSIDE THE PHASE AREAS.
- CONTRACTOR SHALL ONLY UTILIZE THE NOTED ACCESS POINTS TO ENTER AND EXIT THE JOBSITE. GATES ARE TO BE SECURED DURING WORK AND USED DURING WORK TIMES ONLY.
- CONTRACTOR SHALL FENCE DESIGNATED STAGING AREA.
- HAULING ACROSS THE ACTIVE APRON AND TAXIWAYS IS PROHIBITED, UNLESS AUTHORIZED BY THE AIRPORT.
- CONTRACTOR SHALL NOT ENTER ANY AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WITHOUT PRIOR APPROVAL FROM THE AIRPORT.
- CONTRACTOR SHALL KEEP HAUL ROUTE AND ALL AIRFIELD PAVEMENTS ADJACENT TO THE WORK AREA FREE OF DIRT, DEBRIS AND FOD AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO PROVIDE TRAFFIC CONTROL MEASURES FOR ALL HAUL ROUTES.
- CONTRACTOR IS RESPONSIBLE FOR SECURITY CLEARANCE AND BADGING FOR ALL EMPLOYEES AND SUB-CONTRACTORS.
- CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO PROVIDE A TSA APPROVED GATE GUARD AT GATES DURING ALL HAUL ROUTE OPERATIONS.
- CONTRACTOR SHALL UTILIZE THE LAYDOWN AREA AS SHOWN FOR ALL EQUIPMENT STAGING AND STORAGE.
- CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO PROVIDE TRAFFIC CONTROL MEASURES FOR ALL HAUL ROUTES ACROSS ACTIVE TAXIWAYS.
- TAXIWAY OBJECT FREE AREA IS MEASURED FROM THE TAXIWAY CENTERLINE. THE TOTAL TAXIWAY F1 TSA IS 171 FEET.
- LOW PROFILE BARRICADE SHALL SURROUND EACH ACTIVE WORKING PHASE. COORDINATE WITH YCAA FOR AUTHORIZATION AND ALLOWED TIMEFRAME.
- CONTRACTOR TO COORDINATE WITH WITH AIRPORT OPERATIONS FOR WORK WITHIN TSA AND RFA FOR ADDITIONAL WORK RESTRICTIONS.
- ALL WORK ITEMS WITHIN EACH PHASE SHALL COMPLETED WITHIN THE NOTED DAYS.
- CONTRACTOR TO SUBMIT WORK SCHEDULE FOR EACH PHASE.
- PROPOSED BARRICADE LOCATIONS SHOWN ARE APPROXIMATE.

NORTH END OF RUNWAY 3L-21R

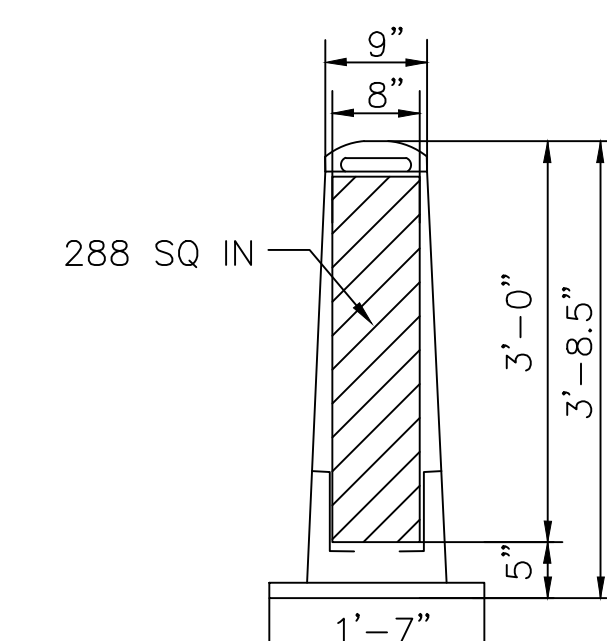


- NOTES:
- BARRICADES SHALL BE SECURED AND REMAIN IN PLACE DURING THE PROJECT PHASE WORK.
 - BARRICADES SHALL BE 4 FT MAXIMUM APART.
 - BARRICADES SHALL BE 1 FT MINIMUM AWAY FROM REHAB LIMITS.

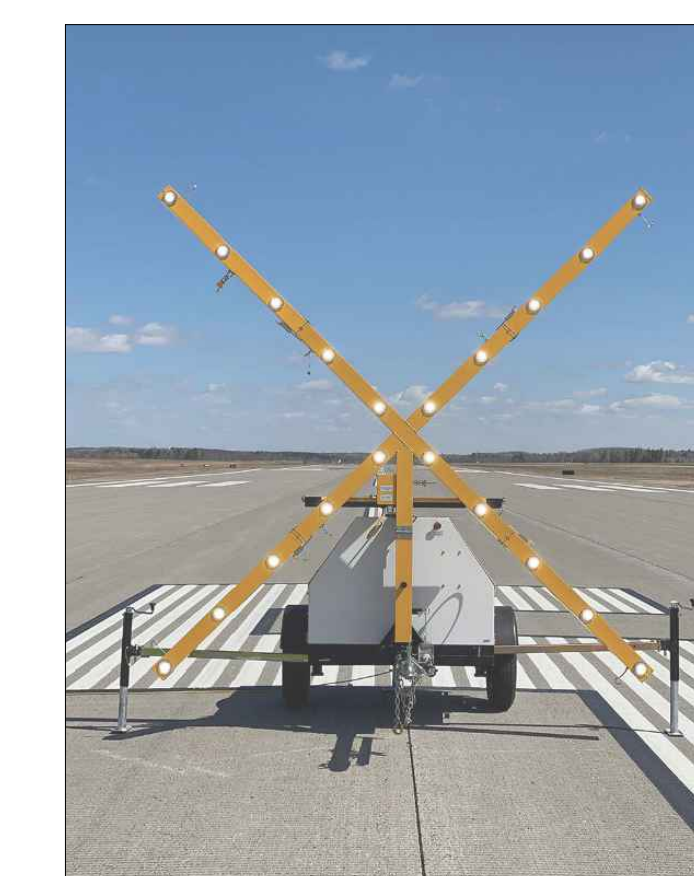
SOUTH END OF RUNWAY 3L-21R



LOW PROFILE BARRICADE NOT TO SCALE



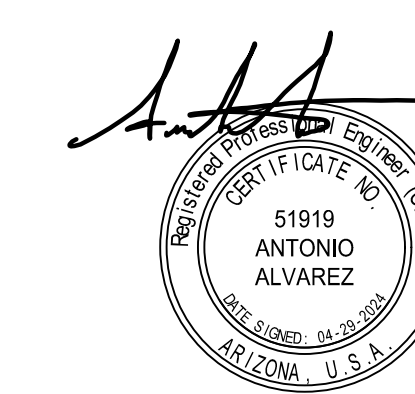
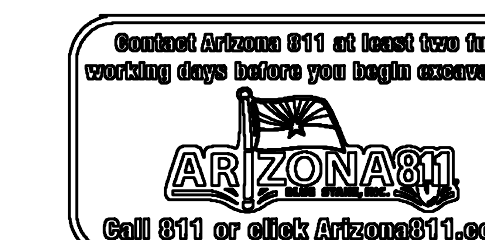
VERTICAL PANEL BARRICADE NOT TO SCALE



- NOTES:
- TWO LIGHTED 'X'S SHALL BE PROVIDED BY THE CONTRACTOR FOR THE FULL LENGTH OF THE PROJECT.
 - THE UNIT MUST BE PORTABLE.
 - THE UNIT MUST BE ENERGIZED WITH A PORTABLE POWER SUPPLY CAPABLE OF 24 HRS CONTINUOUS OPERATION.
 - REFER TO FAA AC 150/5345-55A FOR ITEM REQUIREMENTS AND PLACEMENT.

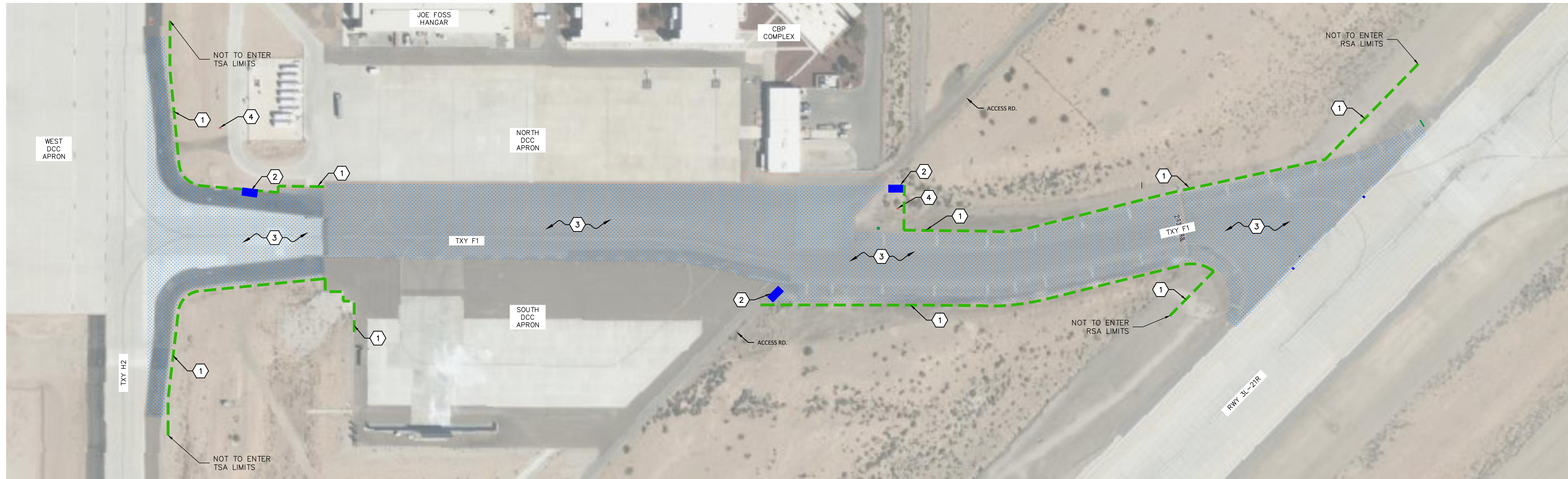
UTILITY WARNING

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TAXIWAY F1 REHABILITATION	
PHASING PLAN	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 3 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
G003	

N:\2023\023-0005\0000_Taxiway F1 Rehabilitation\02_Civil\02 - Drawings\023-0005_Taxiway F1 Rehabilitation_100%_dwg



NOT TO SCALE

LEGEND

- REHABILITATION AREA
- SEDIMENT WATTLES
- TAXIWAY
- RWY
- STABILIZED ACCESS AREA

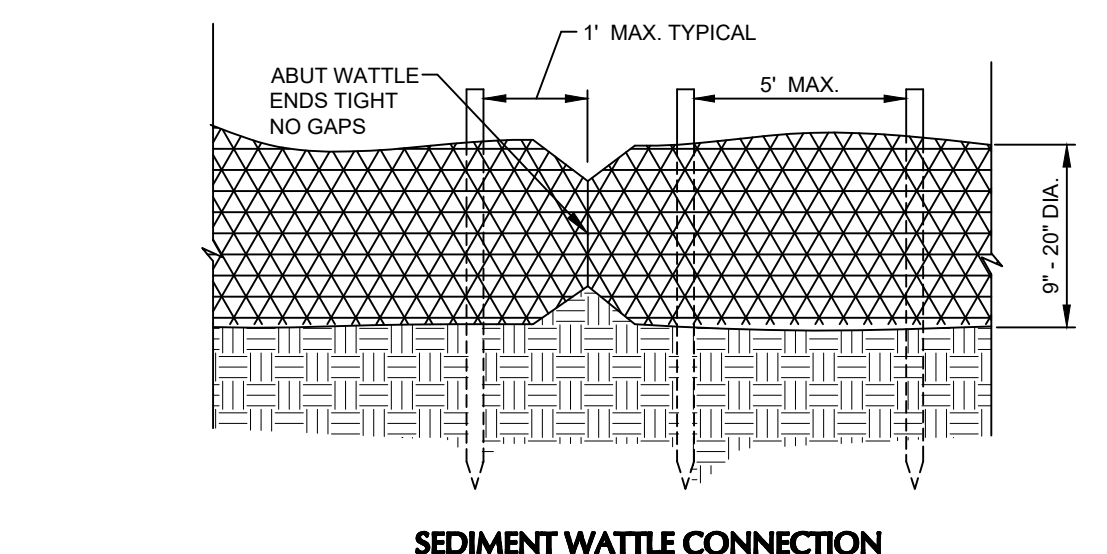
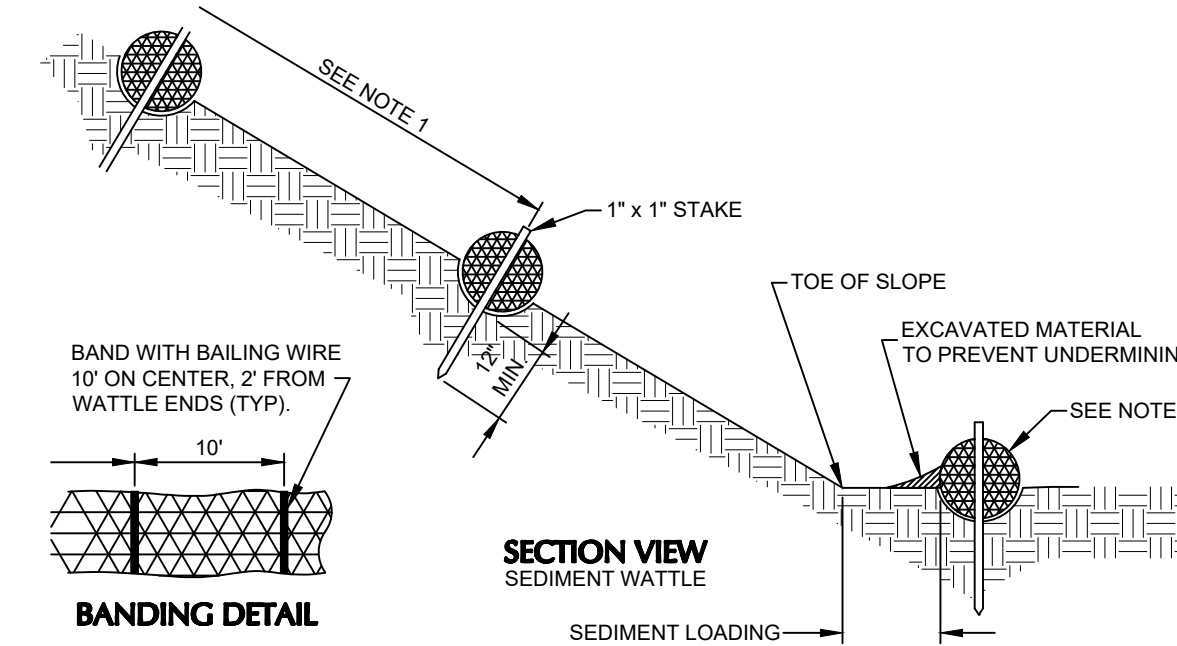
SCHEDULE OF WORK

- SEDIMENT WATTLE.
- STABILIZED CONSTRUCTION EXIT/ENTRANCE.
- DUST CONTROL.
- SANITARY WASTE MANAGEMENT

EROSION AND SEDIMENT CONTROL NOTES

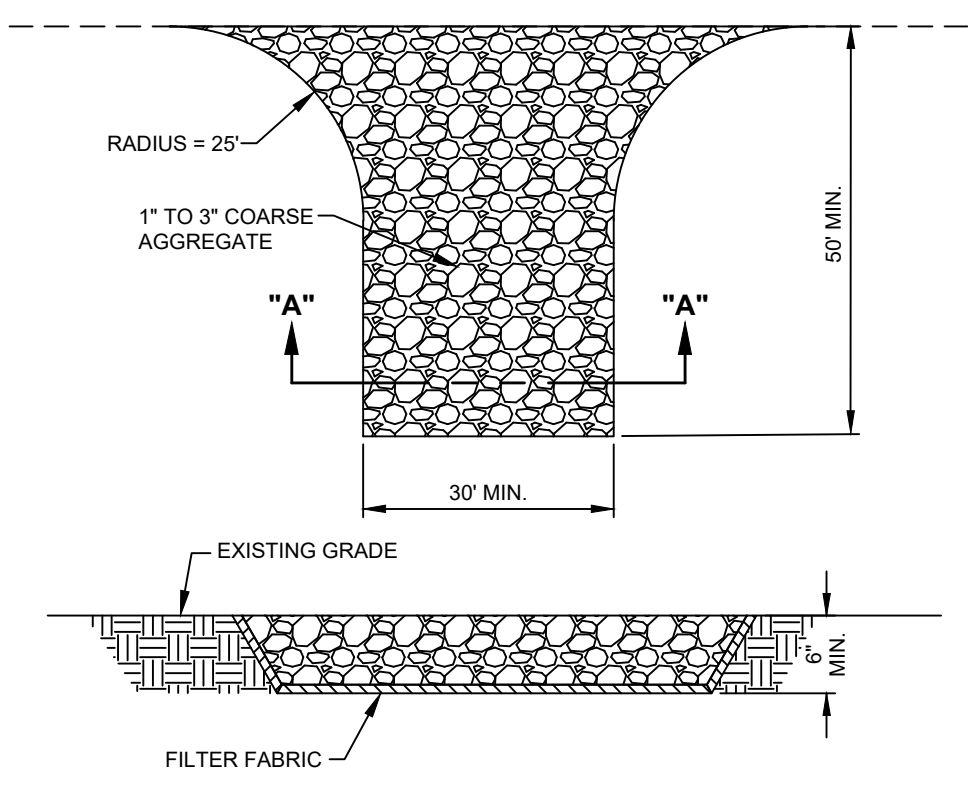
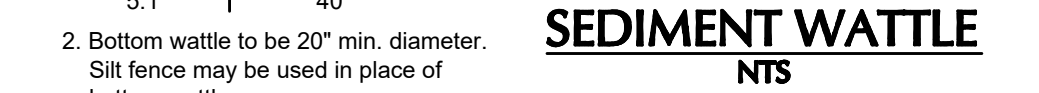
THE PURPOSE OF THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE TO PRECLUDE THE TRANSPORT OF ALL WATERBORNE SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES FROM ENTERING ONTO ADJACENT PROPERTIES OR STATE WATERS. IF FIELD INSPECTION REVEALS THE INADEQUACY OF THE PLAN TO CONFINE SEDIMENT TO THE PROJECT SITE, APPROPRIATE MODIFICATIONS WILL BE MADE TO CORRECT ANY PLAN DEFICIENCIES.

1. PLAN APPROVAL IN NO WAY RELIEVES THE CONTRACTOR OF THE RESPONSIBILITIES CONTAINED WITHIN THE EROSION AND SILTATION CONTROL POLICIES.
2. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE UNIFIED FACILITIES CRITERIA AND UNIFIED FACILITIES GUIDE SPECIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN, NOT LOCATED IN PROPOSED FILL OR EXCAVATION AREAS, SHALL BE CONSTRUCTED PRIOR TO ALL OTHER LAND DISTURBANCE. THE CONTRACTOR SHALL ARRANGE AN ONSITE PRECONSTRUCTION CONFERENCE WITH THE CONTRACTING OFFICER.
4. MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES WILL INCLUDE THE REPAIR OF MEASURES DAMAGED BY ANY SUBCONTRACTOR, INCLUDING THOSE OF THE PUBLIC UTILITY COMPANIES. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR WILL SUPPLY THE CONTRACTING OFFICER WITH THE NAME OF THE INDIVIDUAL WHO WILL BE RESPONSIBLE FOR ENSURING MAINTENANCE OF INSTALLED MEASURES ON A DAILY BASIS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
5. SURFACE FLOWS OVER CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER REDIRECTING FLOWS FROM TRANSVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO SAFELY LOWER WATER DOWNSLOPE WITHOUT CAUSING EROSION. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
6. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
7. SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS AT THE TIME OF CONSTRUCTION TO INSURE THEIR INTENDED PURPOSE IS ACCOMPLISHED EXCEPT IN AREAS OF CULTIVATION.
8. ALL STOCKPILE AND BORROW AREAS SHALL BE STABILIZED USING WADDLES OR SILT FENCE. SILT FENCE SHALL BE INSTALLED ALONG DOWNHILL TOE OF SLOPE.
9. ALL AREAS DESIGNATED FOR PAVING, UNDERGROUND UTILITIES, AND STRUCTURAL USE SHALL BE STABILIZED AS SOON AS POSSIBLE.
10. OUTLET PROTECTION AND ANY TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED FOR PIPES AND CHANNELS BEFORE THEY ARE OPERATIONAL.
11. BASE COURSE MATERIAL SHALL BE PLACED IN ALL STREET AREAS WITHIN 30 DAYS OF FINAL GRADING.
12. OFF-SITE WASTE AREAS SHALL BE APPROVED PRIOR TO THE EXPORT OF ANY WASTE TO OR FROM THE PROJECT SITE.
13. DUE TO THE LOCATION OF THE WORK, THE CONTRACTOR SHALL MAKE SPECIAL EFFORTS TO CONTROL DUST DURING THE PROCESS OF THE WORK. DUST SHALL BE CONTROLLED TO A MINIMUM BY REGULAR APPLICATIONS OF WATER AS NECESSARY OR AS DIRECTED BY THE ENGINEER. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL SWEEP THE STREETS TO REMOVE ALL LOOSE DIRT AND DUST RESULTING FROM THE CONSTRUCTION OPERATIONS.
14. AT THE "BEGIN PROJECT" AND END PROJECT" LOCATIONS, THE CONTRACTOR SHALL PROVIDE DUST AND STORM WATER COMPLAINTS SIGNS, W21S-1 PER CITY OF YUMA STANDARD DETAIL No. 8-100. THE COST FOR PROVIDING THESE SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SWPPP IMPLEMENTATION.



NOTES

1. Slope Ratio	Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'



UTILITY WARNING

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TAXIWAY F1 REHABILITATION

EROSION CONTROL PLAN

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 4 OF 47

NICKLAUS
ENGINEERING, INC.

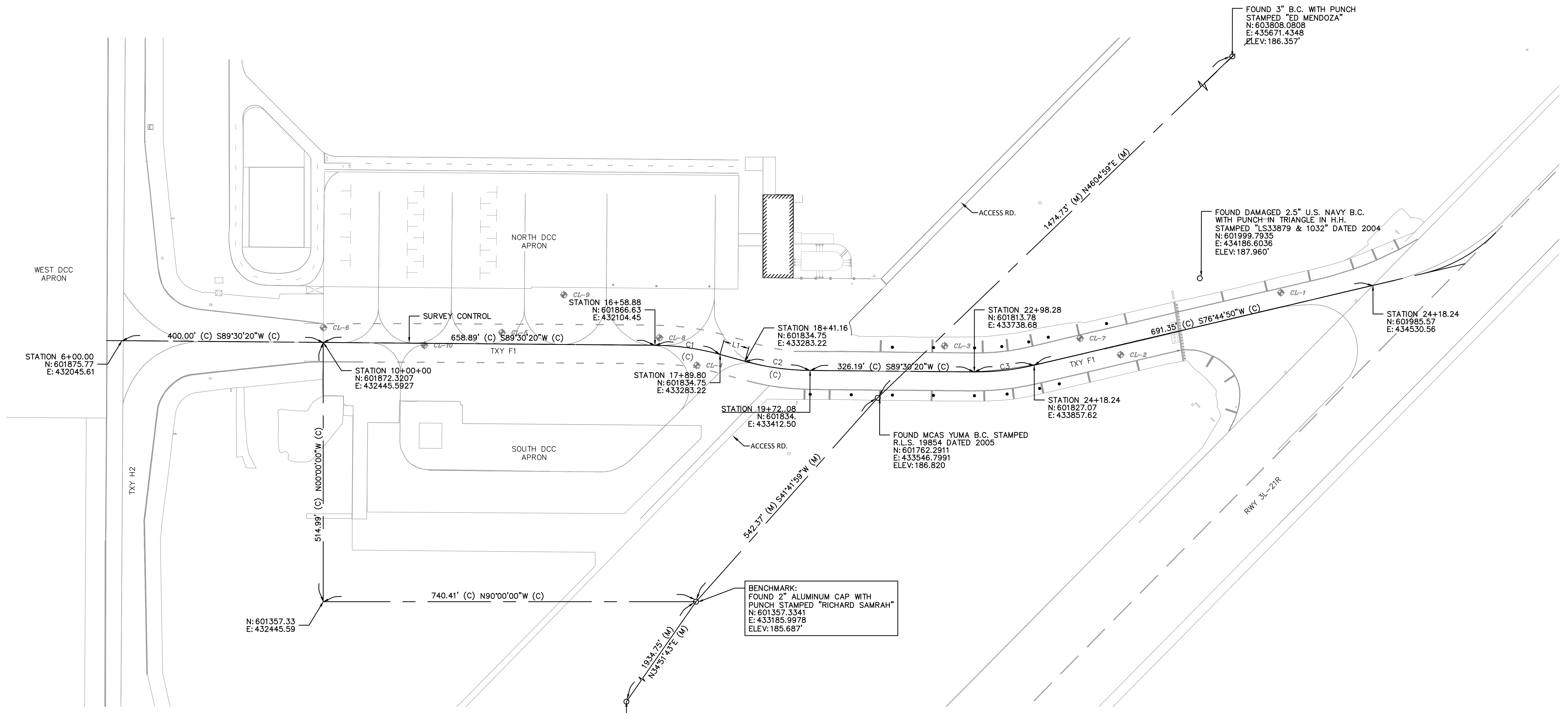
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

G004

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LEGEND

- FOUND MONUMENTATION AS NOTED
- (M) MEASURED
- (C) CALCULATED
- H.H. HAND HANDLE
- B.C. BRASS CAP
- R.L.S. REGISTERED LICENSE SURVEYOR

SURVEY NOTES

THE TOPOGRAPHIC SURVEY DATA WAS COLLECTED BY DESERT SURVEYING AND ENGINEERING (DSE) ON FEB 21, FEB 22, & SEPT. 18, 2023. THE FIELD DATA WAS PERFORMED WITH GPS SURVEYING EQUIPMENT.

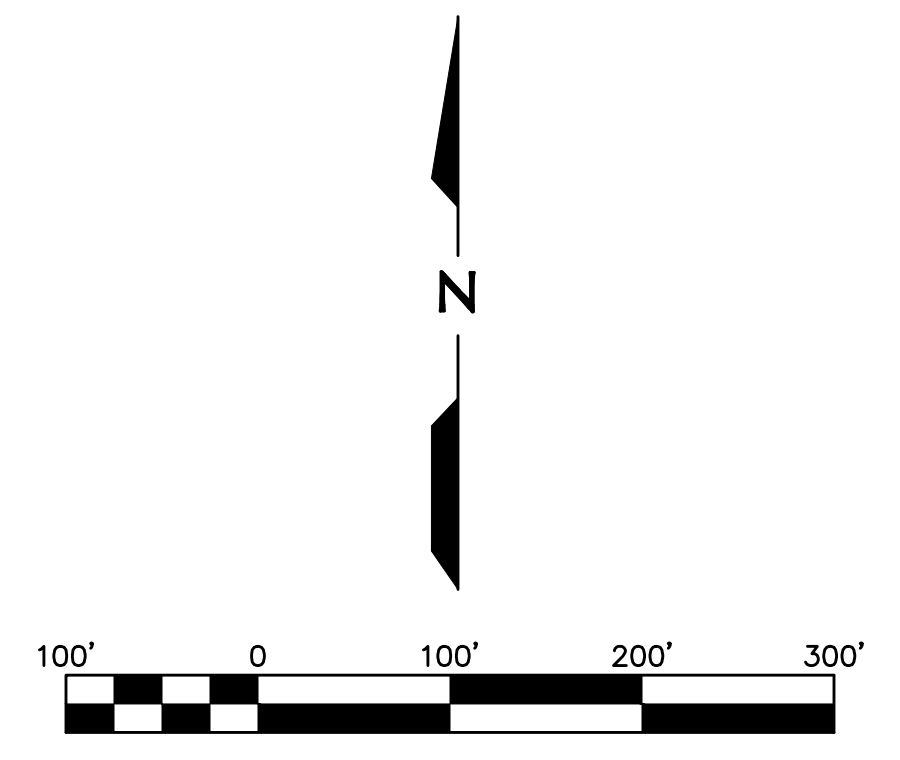
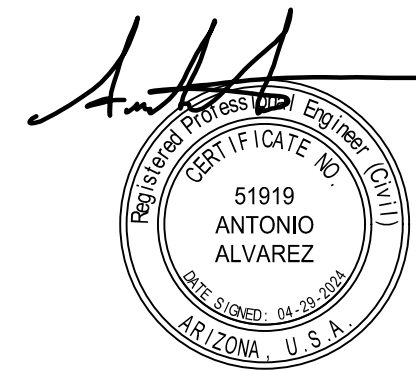
THIS SURVEY USES THE FOLLOWING COORDINATE SYSTEM: NAD83 ARIZONA STATE PLANES, WEST ZONE. THE HORIZONTAL AND VERTICAL VALUES ARE INTERNATIONAL FEET UNITS.

CORE SAMPLES DATA			
CORE ID	PAVEMENT TYPE	PAVEMENT THICKNESS (IN)	AGGREGATE THICKNESS (IN)
CL-1	FLEXIBLE	5-1/4	8-3/4
CL-2	FLEXIBLE	4-3/4	11-1/4
CL-3	FLEXIBLE	4-1/4	NONE
CL-4	FLEXIBLE	4-1/4	10-1/2
CL-5	FLEXIBLE	5	10-1/4
CL-6	FLEXIBLE	5-1/2	10-1/2
CL-7	FLEXIBLE	3-1/2	NOT COLLECTED
CL-8	FLEXIBLE	3-1/4	NOT COLLECTED
CL-9	FLEXIBLE	2-1/2	NOT COLLECTED
CL-10	FLEXIBLE	2	NOT COLLECTED

CURVE AND LINE TABLE			
ID	LENGHT	DELTA	BEARING
C1	130.92	15°00'09"	-
C2	130.92	15°00'09"	-
C3	119.97	13°44'50"	-
C4	168.30	32°38'54"	-
L1	51.36	-	S74°30'11"E

UTILITY WARNING

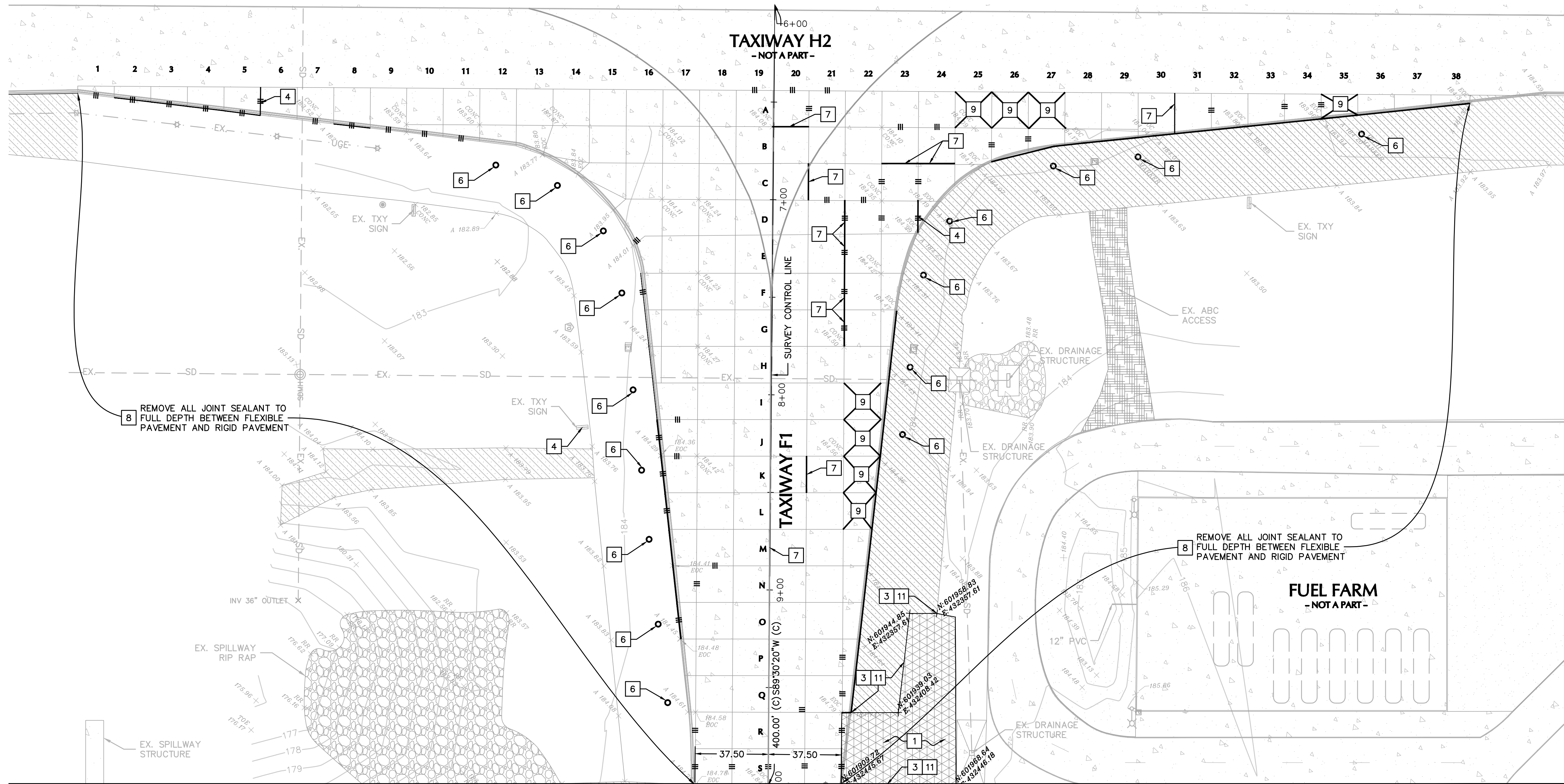
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TAXIWAY F1 REHABILITATION

SURVEY CONTROL PLAN & PAVEMENT CORING DATA		SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 5 OF 47
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com		G005

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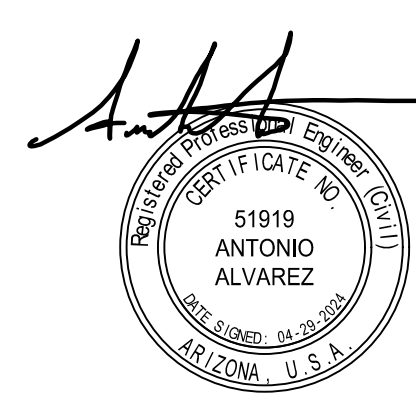
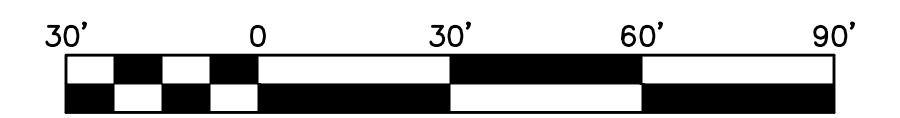
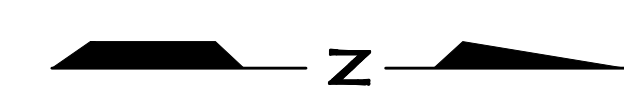
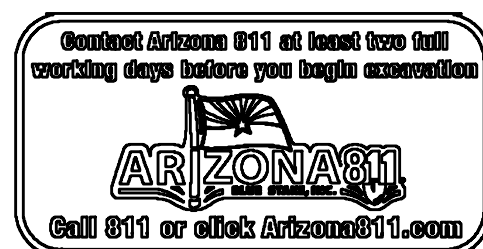
MATCH LINE - STA 10+00
SEE SHEET C-002

DEMOLITION SCHEDULE OF WORK

- 1 REMOVE EXISTING FLEXIBLE PAVEMENT, AGGREGATE BASE COURSE, AND REQUIRED SUBGRADE TO A TOTAL DEPTH OF 22".
- 2 REMOVE EXISTING BITUMINOUS SURFACE COURSE AND REQUIRED AGGREGATE BASE COURSE TO A TOTAL DEPTH OF 5".
- 3 SAW CUT EXISTING ASPHALT PAVEMENT TO FULL DEPTH.
- 4 REMOVE EXISTING TAXIWAY SIGN. SEE ELECTRICAL PLANS.
- 5 OBLITERATE EXISTING MARKINGS.
- 6 REMOVE AND DISPOSE EXISTING REFLECTIVE MARKER.
- 7 REMOVE EXISTING JOINT SEALANT BETWEEN RIGID PAVEMENT SLABS.
- 8 REMOVE EXISTING JOINT SEALANT BETWEEN RIGID PAVEMENT AND FLEXIBLE PAVEMENT.
- 9 REMOVE EXISTING RIGID PAVEMENT TO FULL DEPTH BETWEEN EXISTING JOINTS.
- 10 REMOVE AND REESTABLISH EXISTING SURVEY BRASS CAP MONUMENT.
- 11 PROTECT EXISTING PAVEMENT STRUCTURAL SECTION.
- 12 PROTECT EXISTING STRUCTURAL BASE LAYERS.
- 13 PROTECT EXISTING STORM DRAIN STRUCTURE.
- 14 PROTECT EXISTING ELECTRICAL COMPONENT.
- 15 PROTECT EXISTING UNDERGROUND COMMUNICATION LINE.
- 16 REMOVE AND DISPOSE EXISTING ELECTRICAL LINE UPON ENGINEER APPROVAL.
- 17 REMOVE AND DISPOSE EXISTING LIGHT FIXTURE
- 18 REMOVE AND DISPOSE EXISTING ELECTRICAL BOX.

UTILITY WARNING

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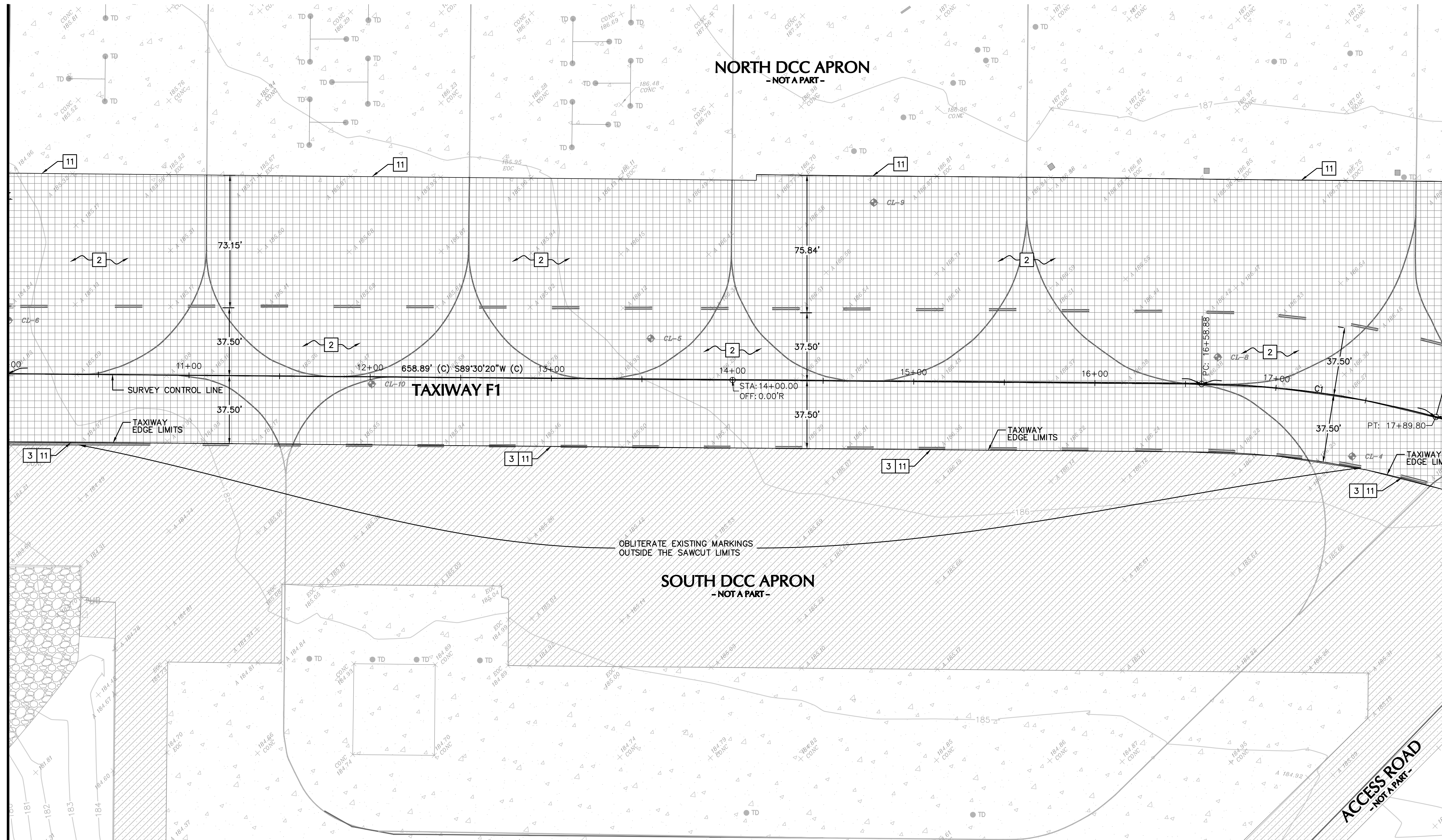
TAXIWAY F1 REHABILITATION	
EXISTING CONDITIONS AND DEMOTION PLAN	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 6 OF 47
 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C001	

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MATCH LINE - STA 10+00
SEE SHEET C-001

MATCH LINE - STA 18+00
SEE SHEET C-003

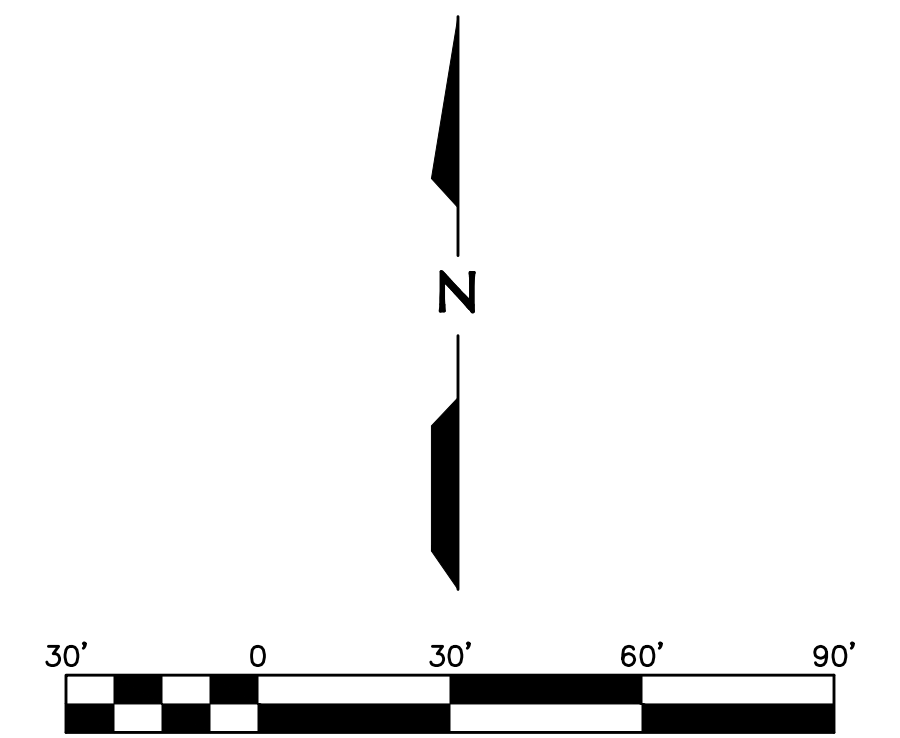


DEMOLITION SCHEDULE OF WORK

- | | |
|---|---|
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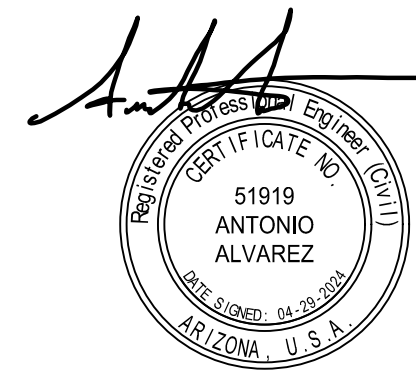
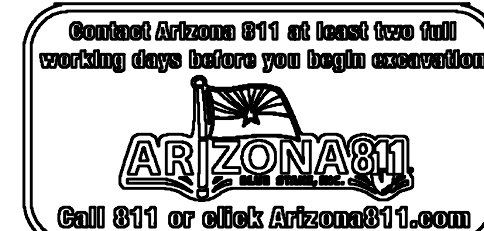
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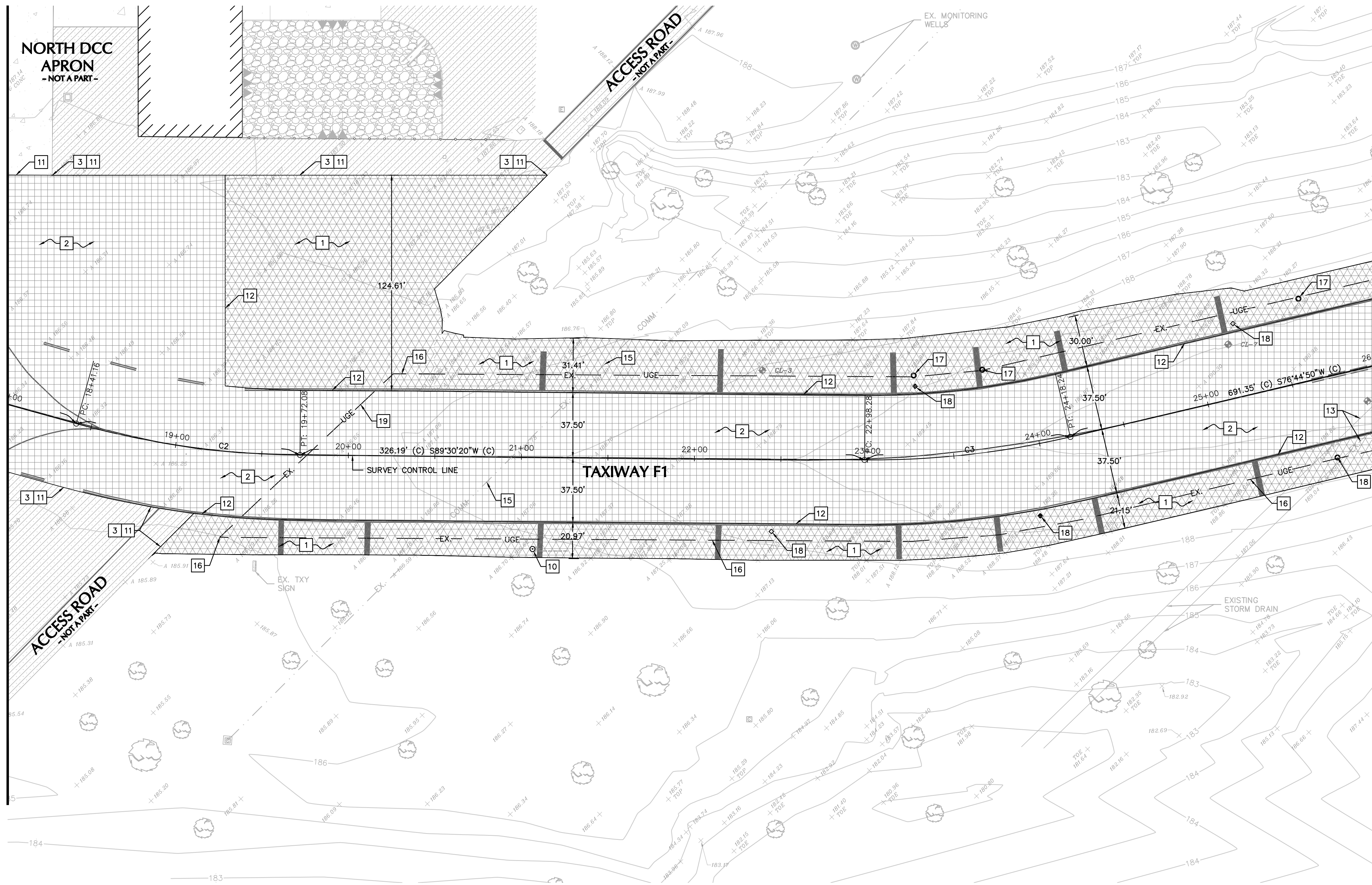


TAXIWAY F1 REHABILITATION	
EXISTING CONDITIONS AND DEMOLITION PLAN	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 7 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C002	

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02_Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation_100%_dwg

MATCH LINE STA 18+00
SEE SHEET C-002

MATCH LINE STA 26+00
SEE SHEET C-004

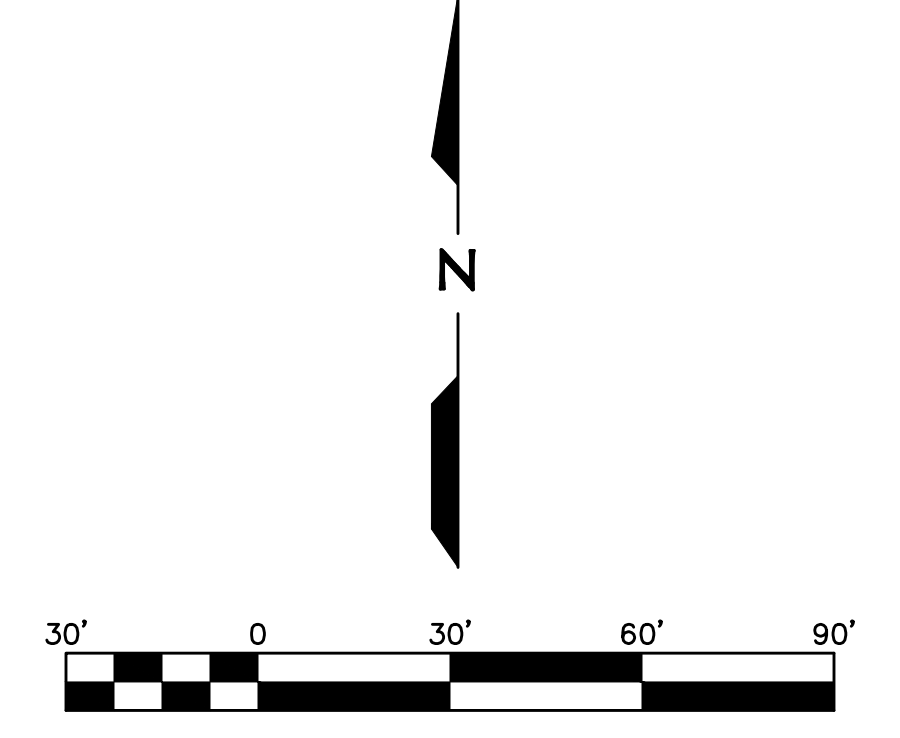
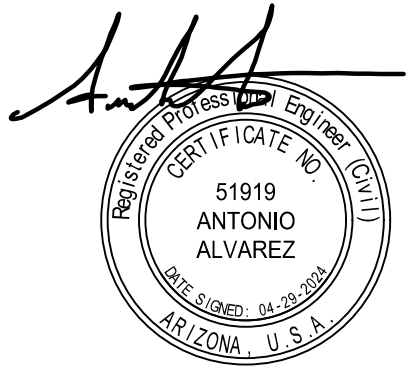
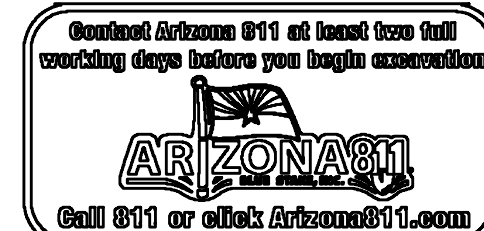


DEMOLITION SCHEDULE OF WORK

- | | |
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|---|---|

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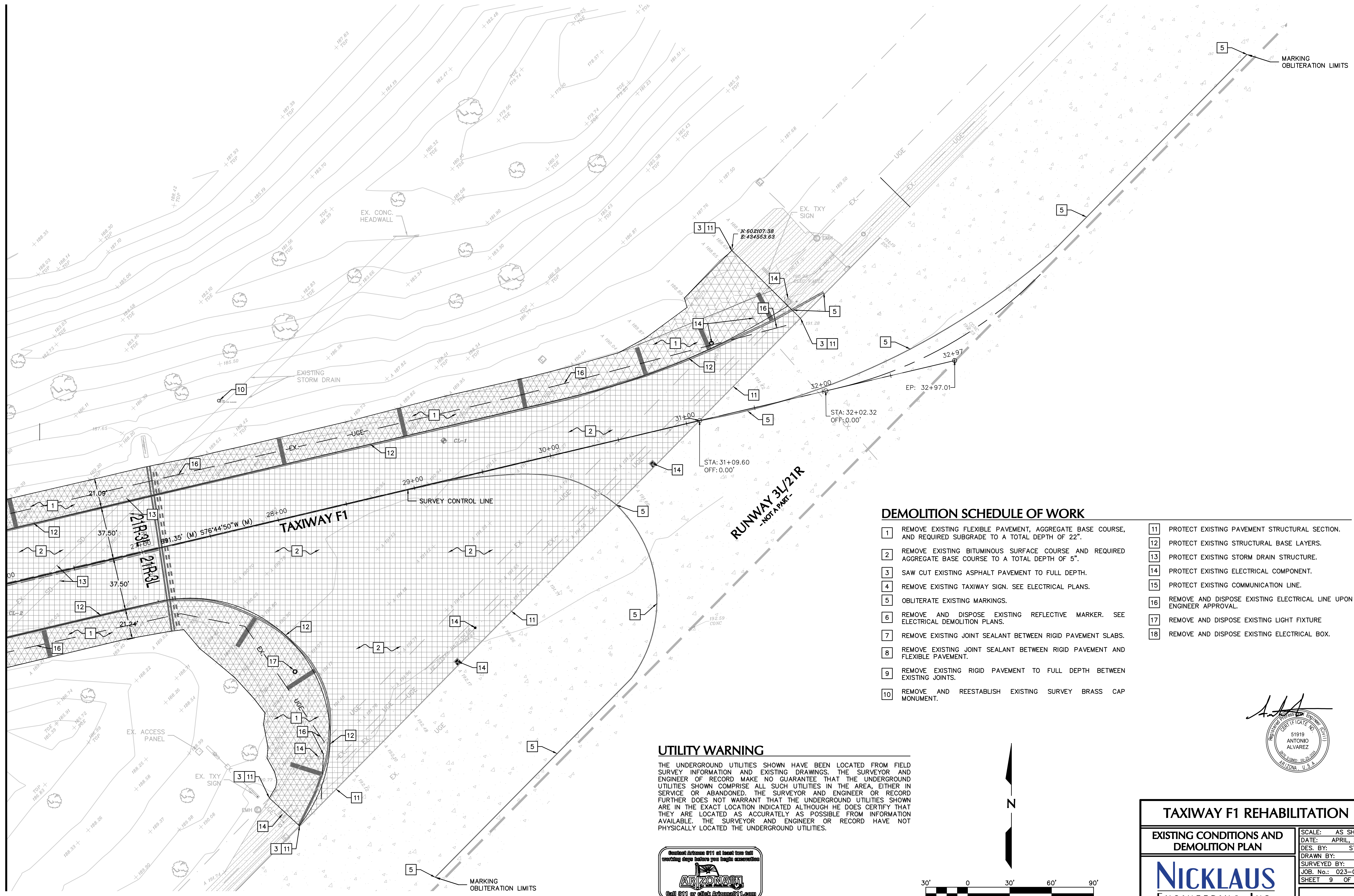


TAXIWAY F1 REHABILITATION	
EXISTING CONDITIONS AND DEMOLITION PLAN	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 8 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C003	

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER, WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%&g

MATCH LINE - STA 26+00
SEE SHEET C-003

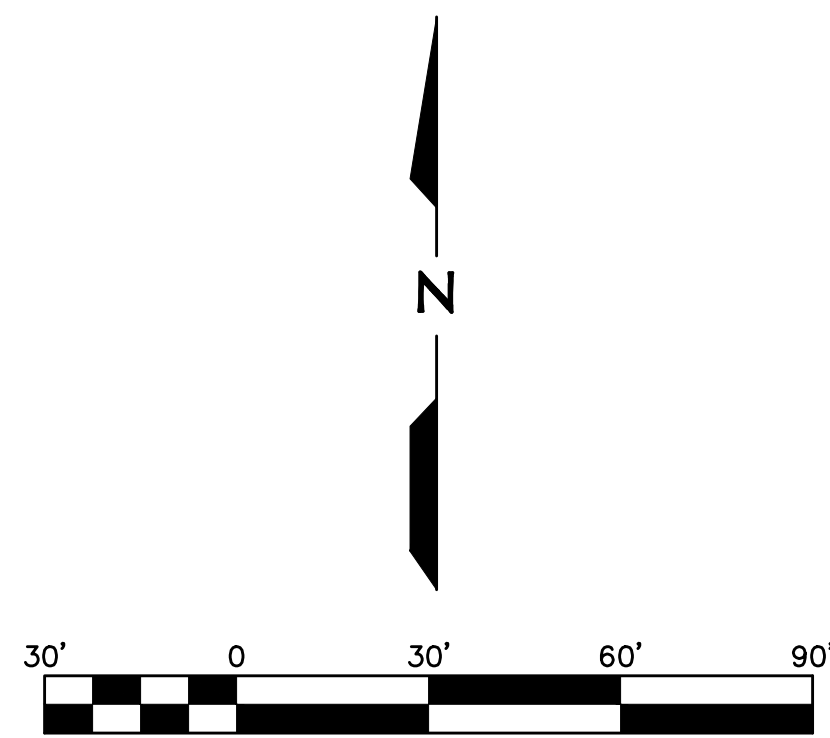


DEMOLITION SCHEDULE OF WORK

- | | |
|---|---|
| <ul style="list-style-type: none"> 1 REMOVE EXISTING FLEXIBLE PAVEMENT, AGGREGATE BASE COURSE, AND REQUIRED SUBGRADE TO A TOTAL DEPTH OF 22". 2 REMOVE EXISTING BITUMINOUS SURFACE COURSE AND REQUIRED AGGREGATE BASE COURSE TO A TOTAL DEPTH OF 5". 3 SAW CUT EXISTING ASPHALT PAVEMENT TO FULL DEPTH. 4 REMOVE EXISTING TAXIWAY SIGN. SEE ELECTRICAL PLANS. 5 OBLITERATE EXISTING MARKINGS. 6 REMOVE AND DISPOSE EXISTING REFLECTIVE MARKER. SEE ELECTRICAL DEMOLITION PLANS. 7 REMOVE EXISTING JOINT SEALANT BETWEEN RIGID PAVEMENT SLABS. 8 REMOVE EXISTING JOINT SEALANT BETWEEN RIGID PAVEMENT AND FLEXIBLE PAVEMENT. 9 REMOVE EXISTING RIGID PAVEMENT TO FULL DEPTH BETWEEN EXISTING JOINTS. 10 REMOVE AND REESTABLISH EXISTING SURVEY BRASS CAP MONUMENT. | <ul style="list-style-type: none"> 11 PROTECT EXISTING PAVEMENT STRUCTURAL SECTION. 12 PROTECT EXISTING STRUCTURAL BASE LAYERS. 13 PROTECT EXISTING STORM DRAIN STRUCTURE. 14 PROTECT EXISTING ELECTRICAL COMPONENT. 15 PROTECT EXISTING COMMUNICATION LINE. 16 REMOVE AND DISPOSE EXISTING ELECTRICAL LINE UPON ENGINEER APPROVAL. 17 REMOVE AND DISPOSE EXISTING LIGHT FIXTURE 18 REMOVE AND DISPOSE EXISTING ELECTRICAL BOX. |
|---|---|

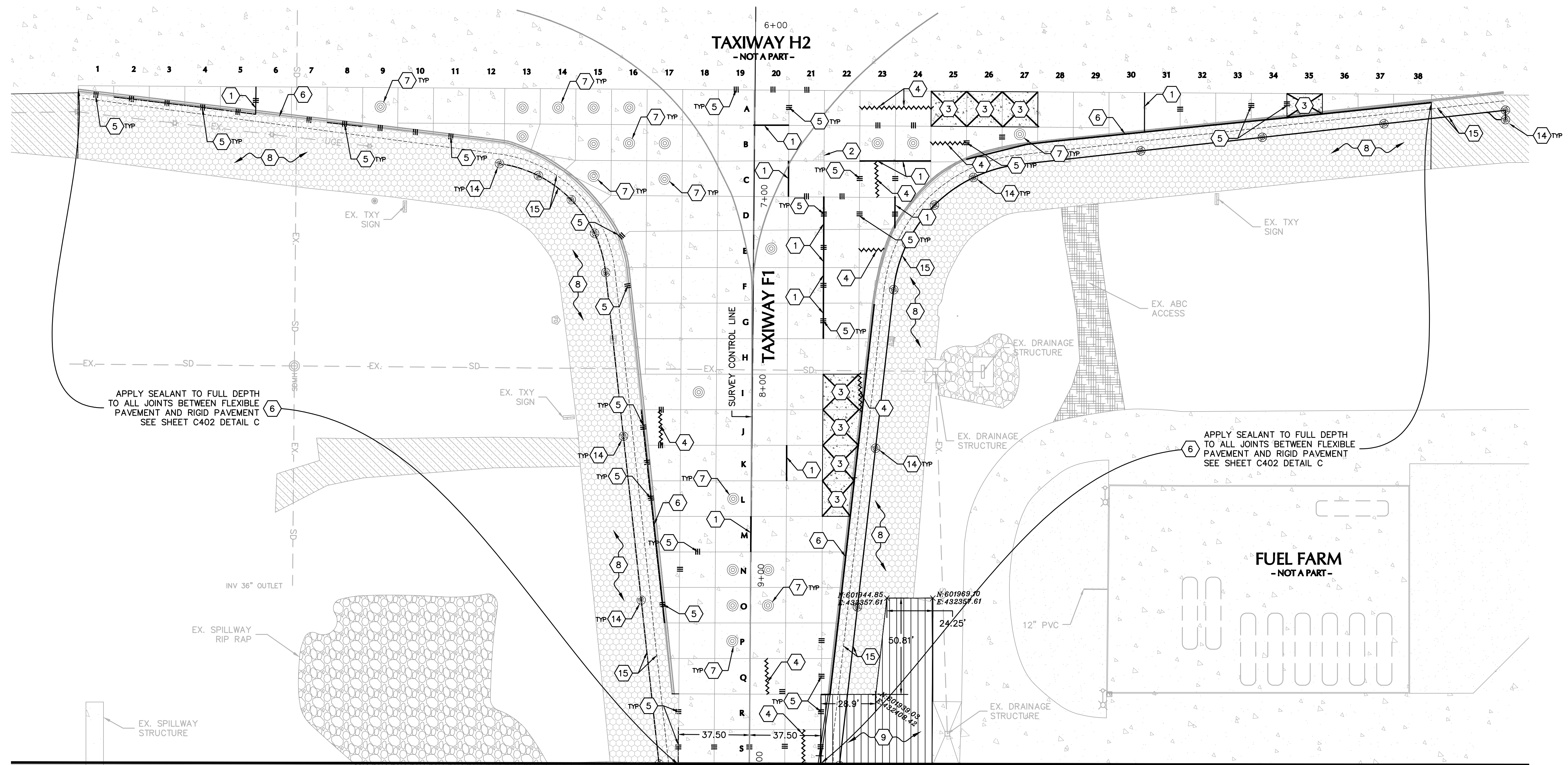
UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



TAXIWAY F1 REHABILITATION	
EXISTING CONDITIONS AND DEMOLITION PLAN	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 9 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C004	

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MATCH LINE - STA 10+00
SEE SHEET C-102

LEGEND (DISTRESS TYPES)

- JOINT SEAL DAMAGE
- LONGITUDINAL, TRANSITIONAL, DIAGONAL CRACK
- BLOW UP
- CORNER BREAK
- EXISTING PATCHING/UTILITY CUT
- POPOUTS
- SCALING/MAP CRACK/CRAZING
- SETTLEMENT/FAULT
- SHATTERED SLAB
- SPALLING-JOINTS
- SPALLING-CORNER
- DURABILITY CRACK

NOTE

1. DISTRESSES DEPICTED ON THESE PLANS ARE NOT SCALED AND ARE MEANT TO SHOW GENERAL LOCATIONS ONLY. CONCRETE PANELS ARE SCALED AS INDICATED.

SCHEDULE OF WORK

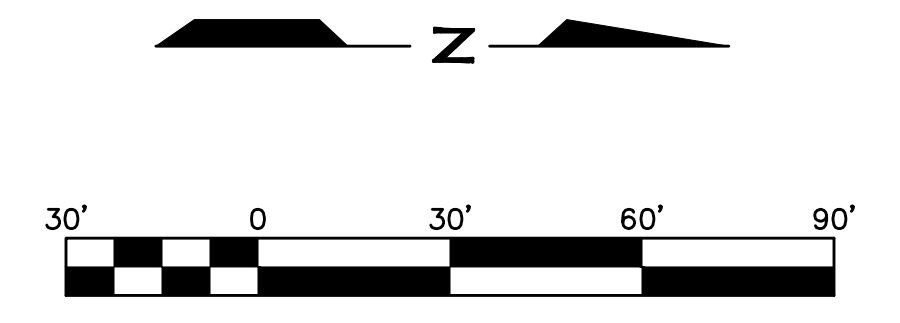
- 1 CLEAN JOINT AND REFILL WITH JOINT SEALANT TO FULL DEPTH AND TO FULL SLAB EXTENT SEE DETAIL- B-2407
- 2 PATCH TO FULL DEPTH. MAKE SAW CUTS AT CONSTRUCTED JOINTS. REPAIR BY REPLACING QUARTER/HALF PANEL OF SLAB. SEE DETAIL- E-2407
- 3 RIGID PAVEMENT SLAB REPLACEMENT. MATCH EXISTING PAVEMENT STRUCTURE SECTION AND MATCH SURROUNDING GRADES. SEE DETAIL- A-2407
- 4 SAW CUT AND SEAL EXISTING CRACKS > 1/8" WIDE SEE DETAIL- F-2407
- 5 REPAIR JOINT/CORNER SPALL SEE DETAIL- G-2407
- 6 PREPARE FLEXIBLE-RIGID PAVEMENT JOINT AND REFILL WITH JOINT SEALANT TO FULL DEPTH. SEE DETAIL- C-2407
- 7 REPAIR POP-OUT (POP-OUTS MEASURING < 1" IN DIAMETER AND < 1/2" IN DEPTH MAY BE REPAIRED W/ COLD APPLIED SEALANT). SEE DETAIL- H-2407
- 8 APPLY CRACK FILLER (P-605) AND SURFACE TREATMENT (P-623).
- 9 NEW 4" BITUMINOUS SURFACE COURSE (P-403), 8" AGGREGATE BASE COURSE (P-209), 10" UNCRUSHED AGGREGATE (P-154), AND OVER 12" PREPARED SUBGRADE. SEE DETAIL- F-2407
- 10 NEW 5" BITUMINOUS SURFACE COURSE (P-401) COMPACTED TO MIN 95% AND COMPACT BOTTOM 6" AGGREGATE BASE COURSE (P-209) TO 100% (ASTM D-1557). SEE DETAIL- E-2407
- 11 APPLY TACK COAT TO JOINT (P-603).
- 12 REESTABLISH BRASS CAP MONUMENT.
- 13 NEW ELECTRICAL COMPONENT, SEE ELECTRICAL PLANS.
- 14 NEW TAXIWAY EDGE LIGHT, SEE ELECTRICAL PLANS
- 15 NEW ELECTRICAL LINE, SEE ELECTRICAL PLANS.

PCC PAVING NOTES:

1. A REPAIR PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 10 DAYS PRIOR TO THE START OF REPAIR OPERATIONS.
2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS.
3. JOINT DOWELS SHALL BE INSTALLED USING THE DRILL & EPOXY METHOD. INSERTION OF DOWELS IN PLASTIC CONCRETE WILL NOT BE ALLOWED. HOLES FOR DOWELS SHALL BE DRILLED USING A GANG DRILL ALIGNED TO DRILL PERPENDICULAR TO JOINT FACE.
4. EXISTING JOINTING SHALL BE MAINTAINED THROUGHOUT UNLESS SHOWN OTHERWISE.
5. HOT WEATHER PAVING: WHEN THE PREDICTED RATE OF EVAPORATION EXCEEDS 0.2LB/FT²/HR., THE CONTRACTOR SHALL PROVIDE FOG SPRAYING OR USE AN APPROVED EVAPORATION RETARDANT. IF SHRINKAGE CRACKING OCCURS, PAVING OPERATIONS MUST BE STOPPED UNTIL CORRECTIVE MEASURES ARE TAKEN. NIGHT PAVING MAY BE REQUIRED.

UTILITY WARNING

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TAXIWAY F1 REHABILITATION

SITE PLAN AND DIMENSIONAL LAYOUT PLAN

NICKLAUS
ENGINEERING, INC.

1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 10 OF 47

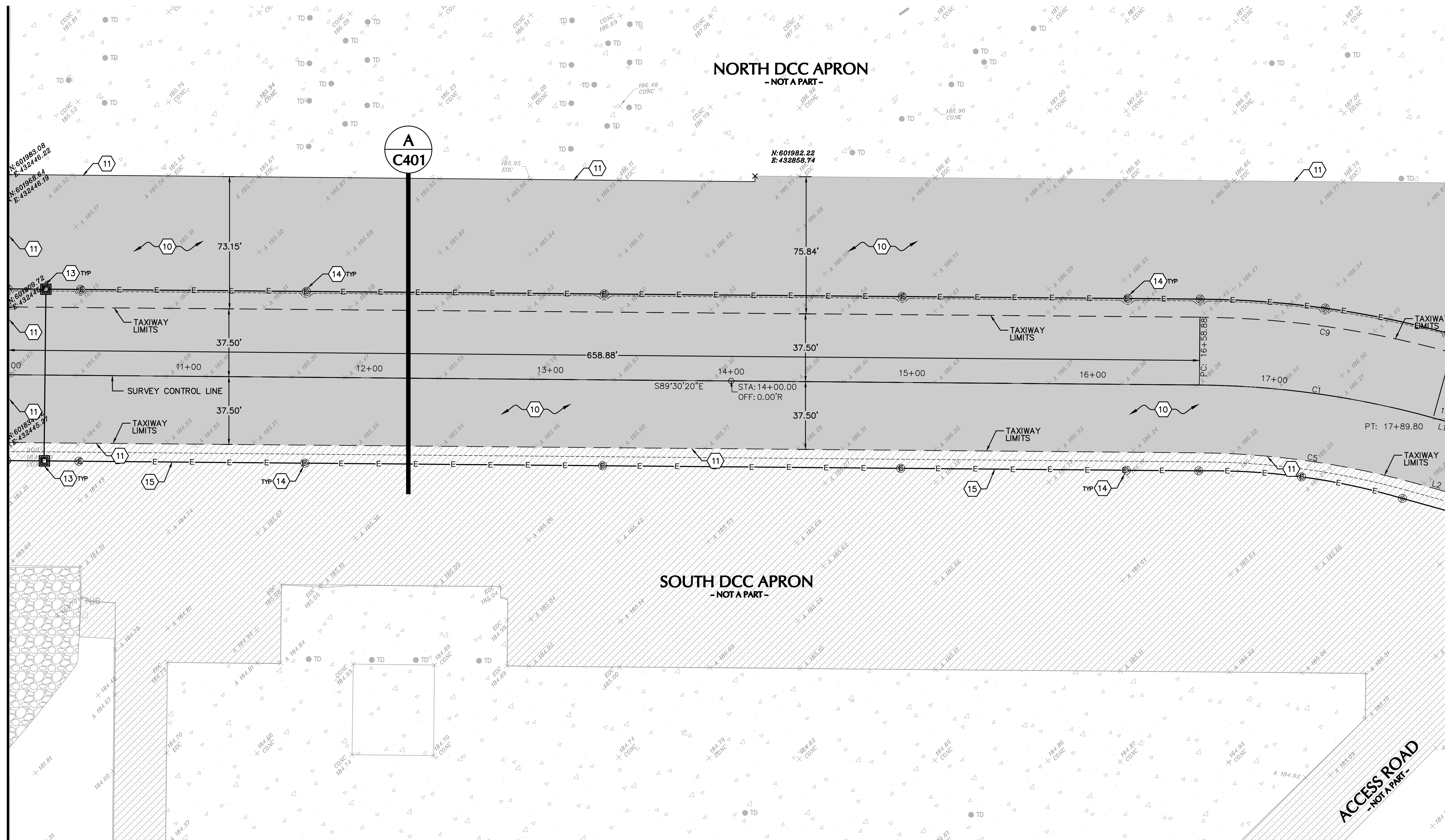
C101

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 Drawings\023-0005 Taxiway F1 Rehabilitation 100%&tag

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MATCH LINE - STA 10+00
SEE SHEET C-101

MATCH LINE - STA 18+00
SEE SHEET C-103



SCHEDULE OF WORK

- 9 NEW 4" BITUMINOUS SURFACE COURSE (P-403), 8" AGGREGATE BASE COURSE (P-209), 10" UNCRUSHED AGGREGATE (P-154), AND OVER 12" PREPARED SUBGRADE. SEE DETAIL
- 10 NEW 5" BITUMINOUS SURFACE COURSE (P-401) COMPACTED TO MIN 95% AND COMPACT BOTTOM 6" AGGREGATE BASE COURSE (P-209) TO 100% (ASTM D-1557). SEE DETAIL
- 11 APPLY TACK COAT TO JOINT (P-603).
- 12 REESTABLISH BRASS CAP MONUMENT.
- 13 NEW ELECTRICAL COMPONENT, SEE ELECTRICAL PLANS.
- 14 NEW TAXIWAY EDGE LIGHT, SEE ELECTRICAL PLANS
- 15 NEW ELECTRICAL LINE, SEE ELECTRICAL PLANS.

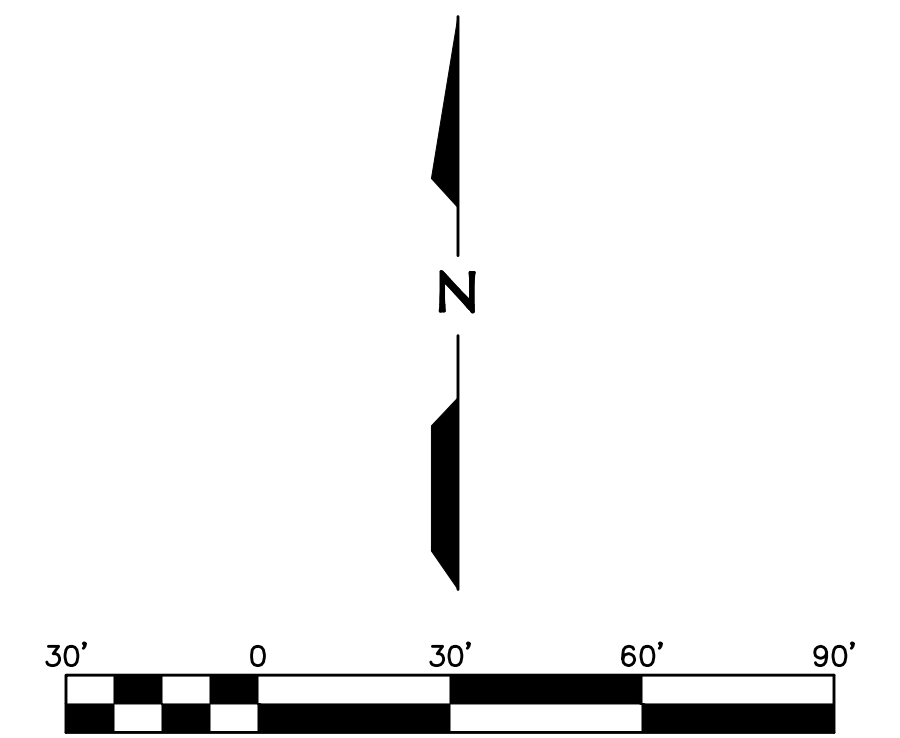
LINE TABLE		
LINE	BEARING	DISTANCE
L1	S74°30'11"E	51.36'
L2	S74°30'11"E	51.36'
L3	S74°30'11"E	51.36'

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CURVE TABLE			
CURVE	RADIUS	DELTA	LENGTH
C1	500.00	15°00'09"	130.92
C2	500.00	15°00'09"	130.92
C3	500.00	13°44'50"	119.97
C4	300.00	32°38'54"	168.30
C5	462.50	15°00'09"	121.10
C6	537.50	15°00'09"	140.74
C7	537.50	13°44'50"	128.97
C8	100.00	147°51'08"	247.89
C9	537.50	15°00'09"	140.74
C10	462.50	15°00'09"	121.10
C11	462.50	13°44'50"	110.97
C12	400.00	32°09'52"	141.38

CURVE TABLE			
CURVE	RADIUS	DELTA	LENGTH
C13	567.50	8°49'40"	87.44
C14	567.50	13°44'50"	136.16
C15	432.50	13°44'50"	103.77
C16	70.00	147°50'26"	180.62
C17	470.00	32°9'34"	263.81



N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%&eng

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TAXIWAY F1 REHABILITATION

SITE PLAN AND DIMENSIONAL LAYOUT PLAN

1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

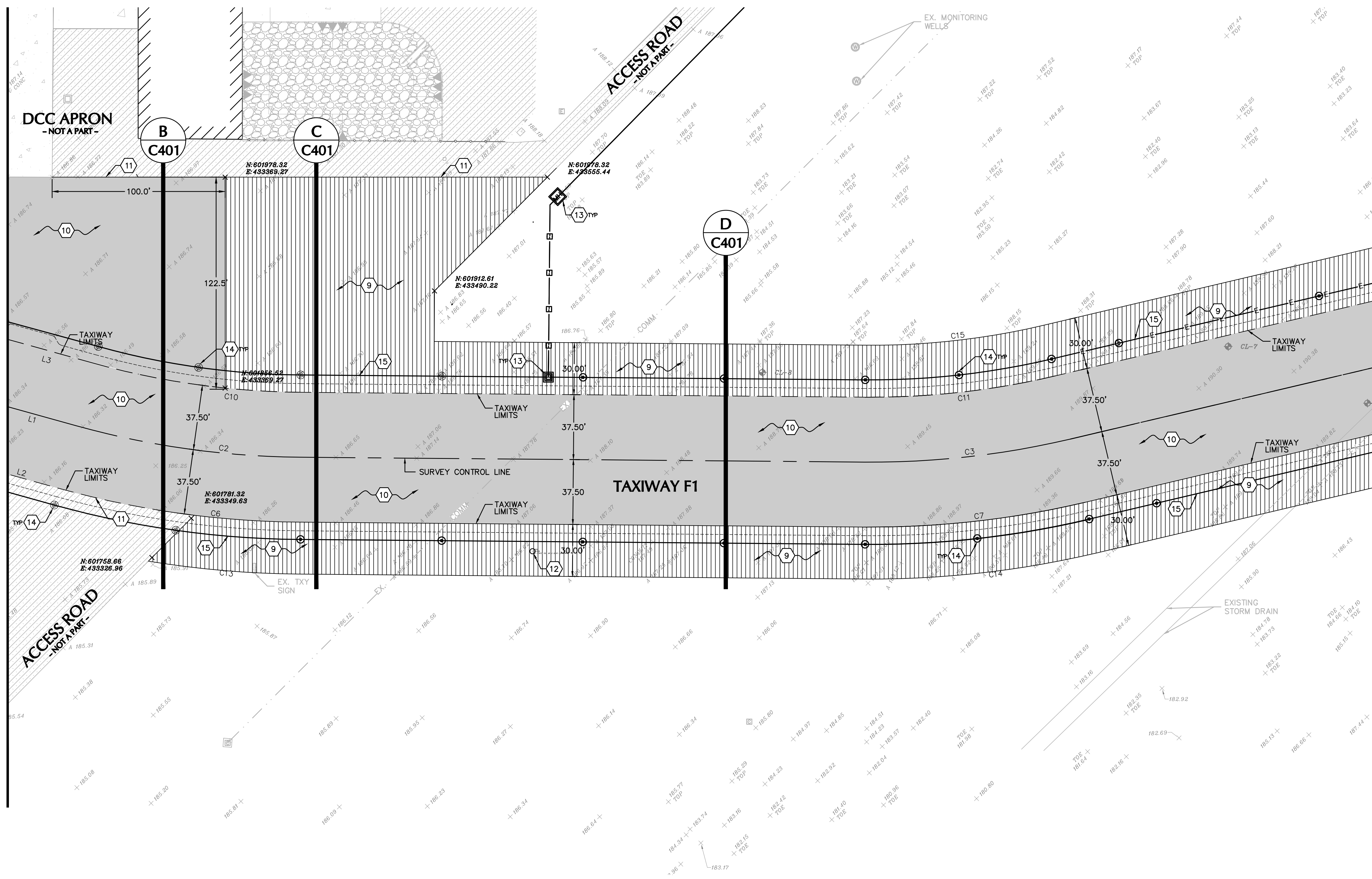
SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 11 OF 47

C102



MATCH LINE STA 18+00
SEE SHEET C-102

MATCH LINE STA 26+00
SEE SHEET C-104



SCHEDULE OF WORK

- 9 NEW 4" BITUMINOUS SURFACE COURSE (P-403), 8" AGGREGATE BASE COURSE (P-209), 10" UNCRUSHED AGGREGATE (P-154), AND OVER 12" PREPARED SUBGRADE. SEE DETAIL-
- 10 NEW 5" BITUMINOUS SURFACE COURSE (P-401) COMPACTED TO MIN 95% AND COMPACT BOTTOM 6" AGGREGATE BASE COURSE (P-209) TO 100% (ASTM D-1557). SEE DETAIL-
- 11 APPLY TACK COAT TO JOINT (P-603).
- 12 REESTABLISH BRASS CAP MONUMENT.
- 13 NEW ELECTRICAL COMPONENT, SEE ELECTRICAL PLANS.
- 14 NEW TAXIWAY EDGE LIGHT, SEE ELECTRICAL PLANS
- 15 NEW ELECTRICAL LINE, SEE ELECTRICAL PLANS.

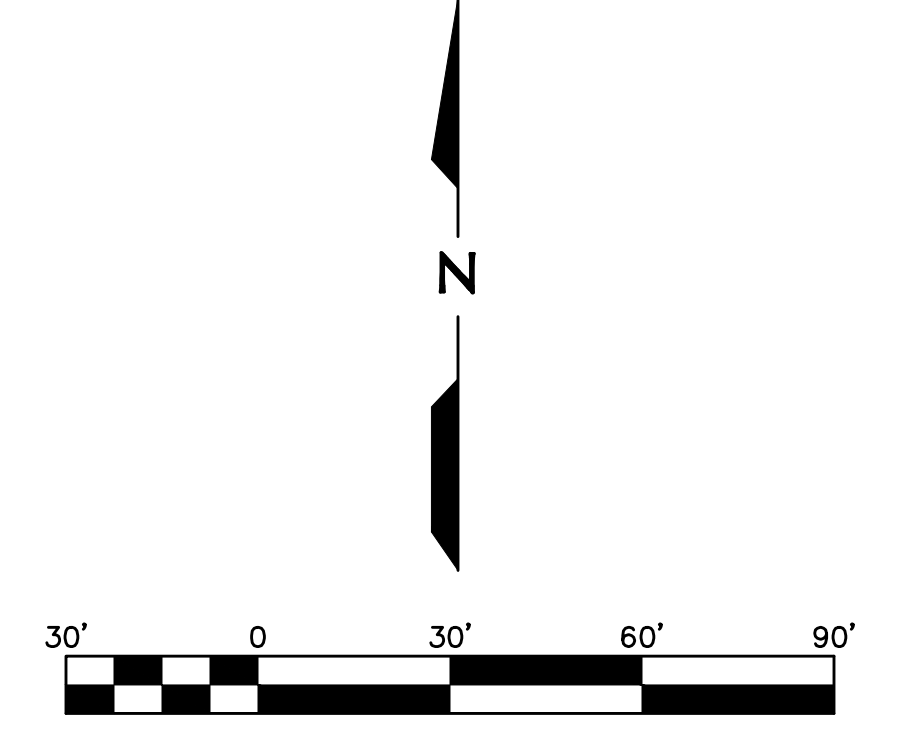
LINE TABLE		
LINE	BEARING	DISTANCE
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L3	S74°30'11"E	51.36'

UTILITY WARNING

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TAXIWAY F1 REHABILITATION

SITE PLAN AND DIMENSIONAL LAYOUT PLAN

NICKLAUS ENGINEERING, INC.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 12 OF 47

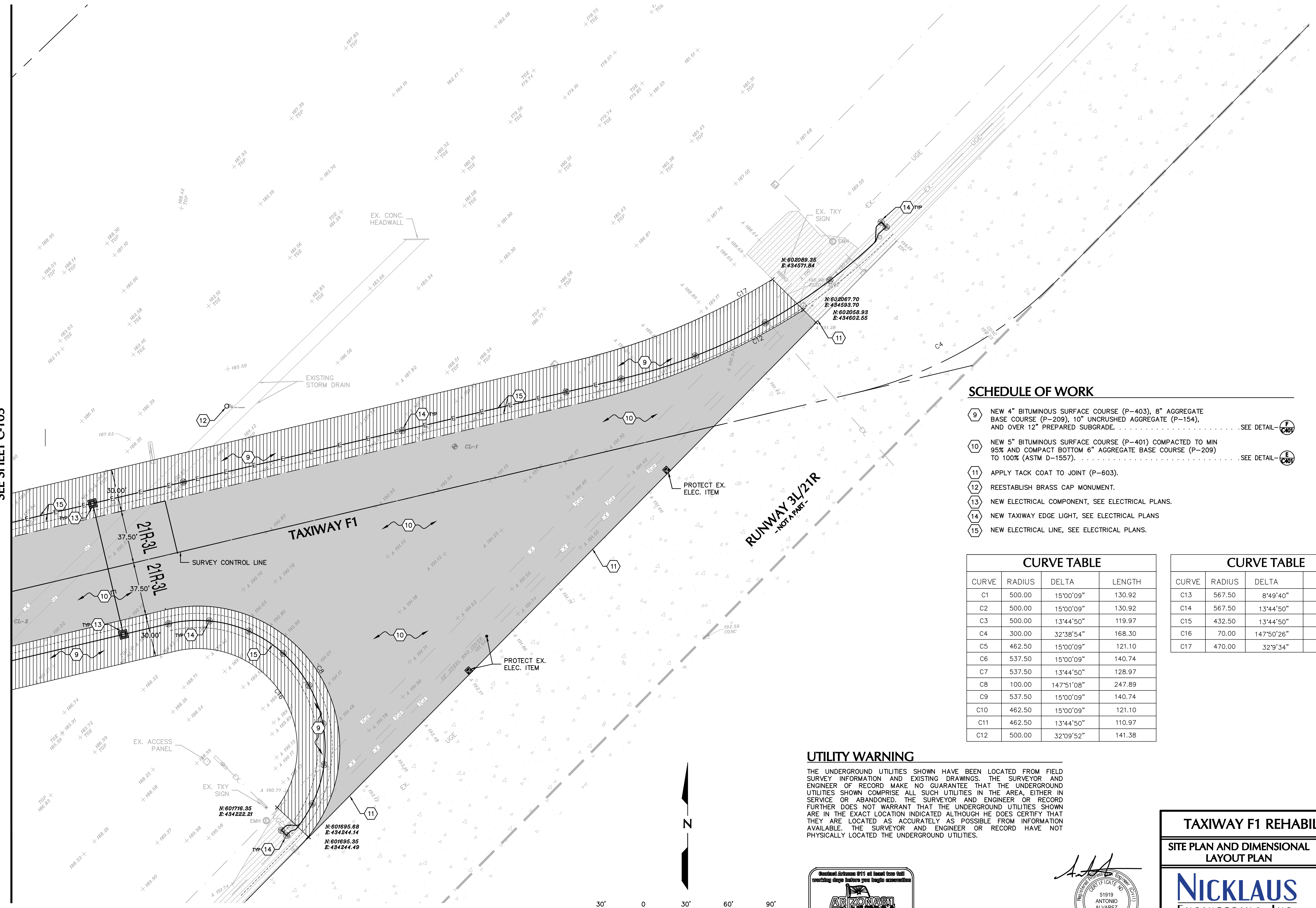
C103

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02_Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation_100%_dwg

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N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02_Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%-dwg

MATCH LINE - STA 26+00
SEE SHEET C-103



SCHEDULE OF WORK

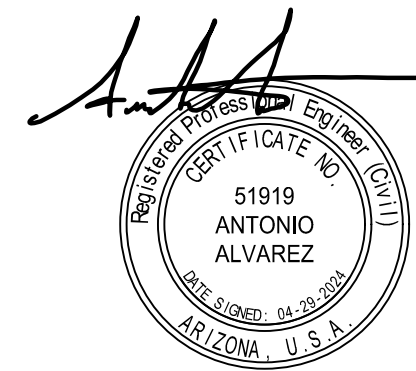
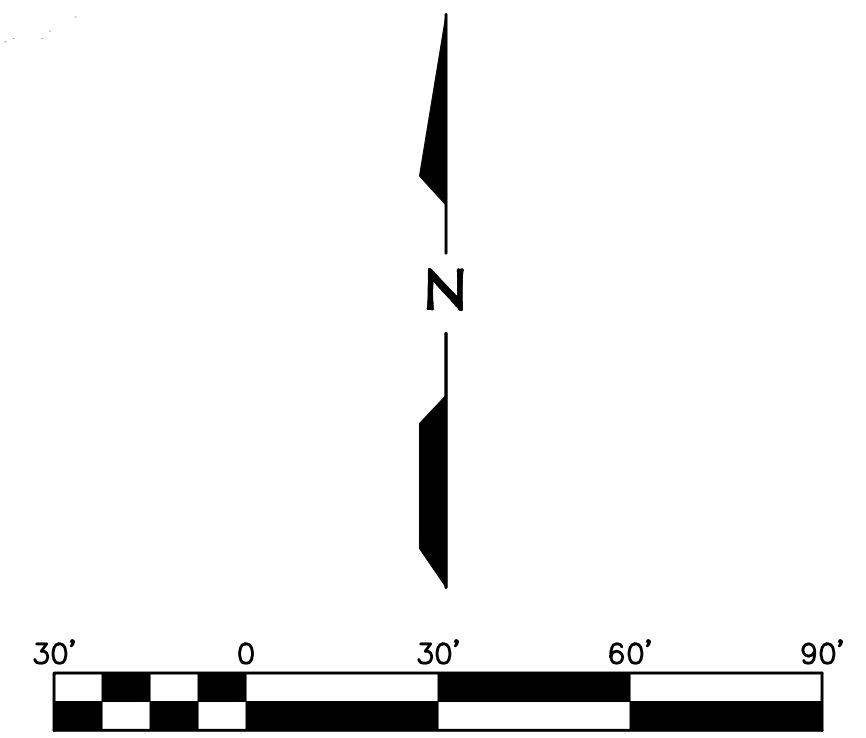
- 9 NEW 4" BITUMINOUS SURFACE COURSE (P-403), 8" AGGREGATE BASE COURSE (P-209), 10" UNCRUSHED AGGREGATE (P-154), AND OVER 12" PREPARED SUBGRADE. SEE DETAIL- (E) C-107
- 10 NEW 5" BITUMINOUS SURFACE COURSE (P-401) COMPACTED TO MIN 95% AND COMPACT BOTTOM 6" AGGREGATE BASE COURSE (P-209) TO 100% (ASTM D-1557). SEE DETAIL- (E) C-107
- 11 APPLY TACK COAT TO JOINT (P-603).
- 12 REESTABLISH BRASS CAP MONUMENT.
- 13 NEW ELECTRICAL COMPONENT, SEE ELECTRICAL PLANS.
- 14 NEW TAXIWAY EDGE LIGHT, SEE ELECTRICAL PLANS
- 15 NEW ELECTRICAL LINE, SEE ELECTRICAL PLANS.

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UTILITY WARNING

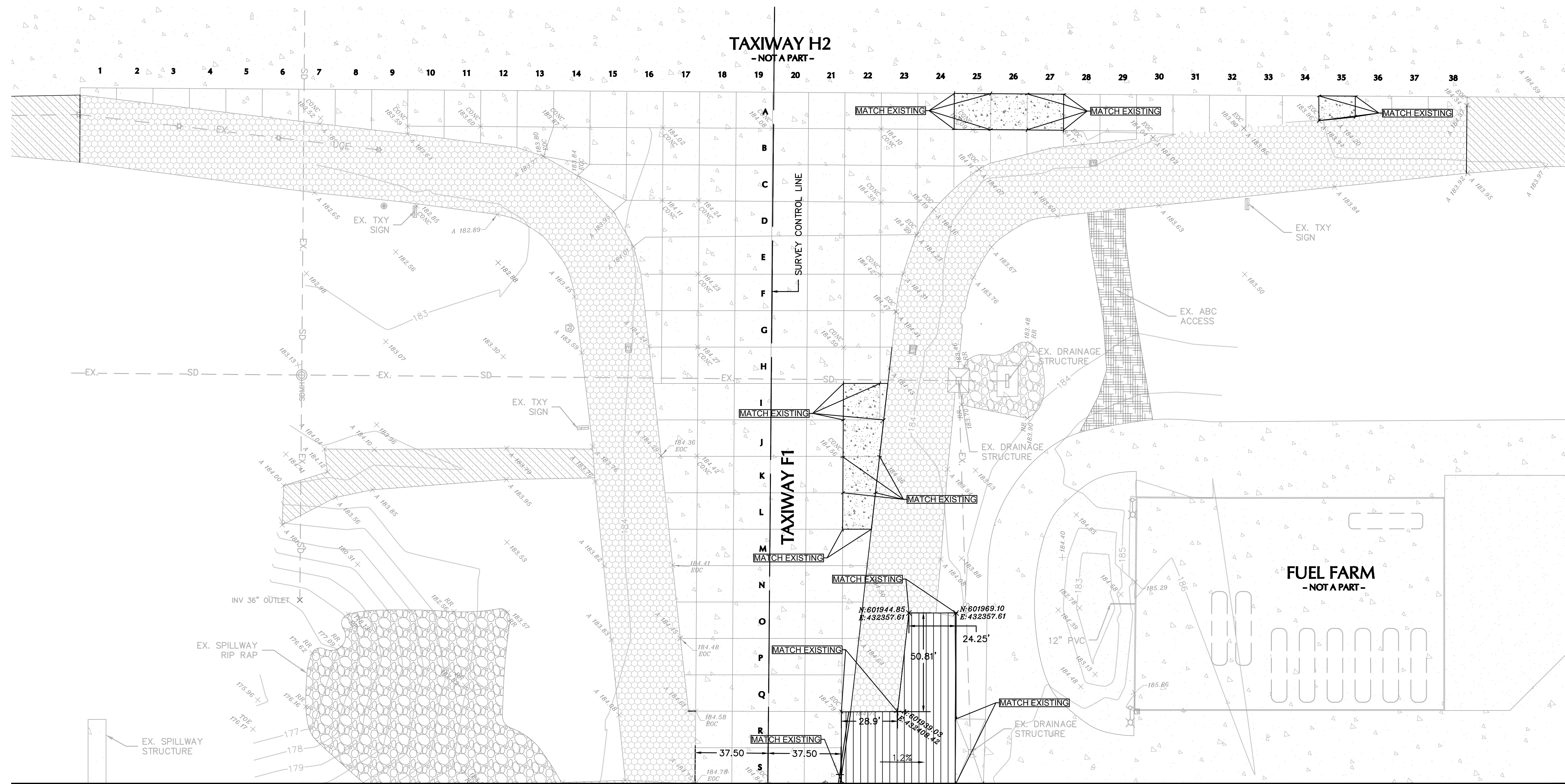
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TAXIWAY F1 REHABILITATION	
SITE PLAN AND DIMENSIONAL LAYOUT PLAN	SCALE: AS SHOWN DATE: MARCH, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 13 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C104	

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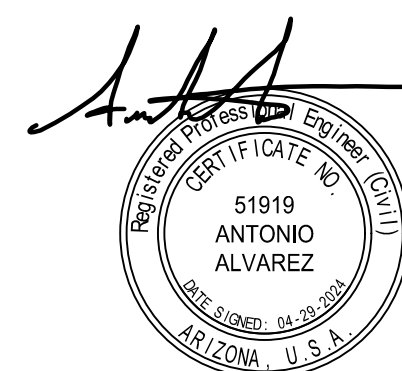
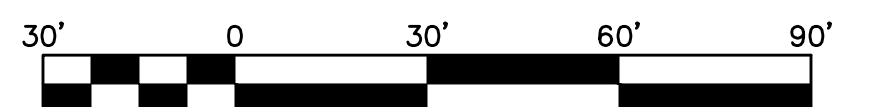
TAXIWAY H2
- NOT A PART -



MATCH LINE - STA 10+00
SEE SHEET C-202

UTILITY WARNING

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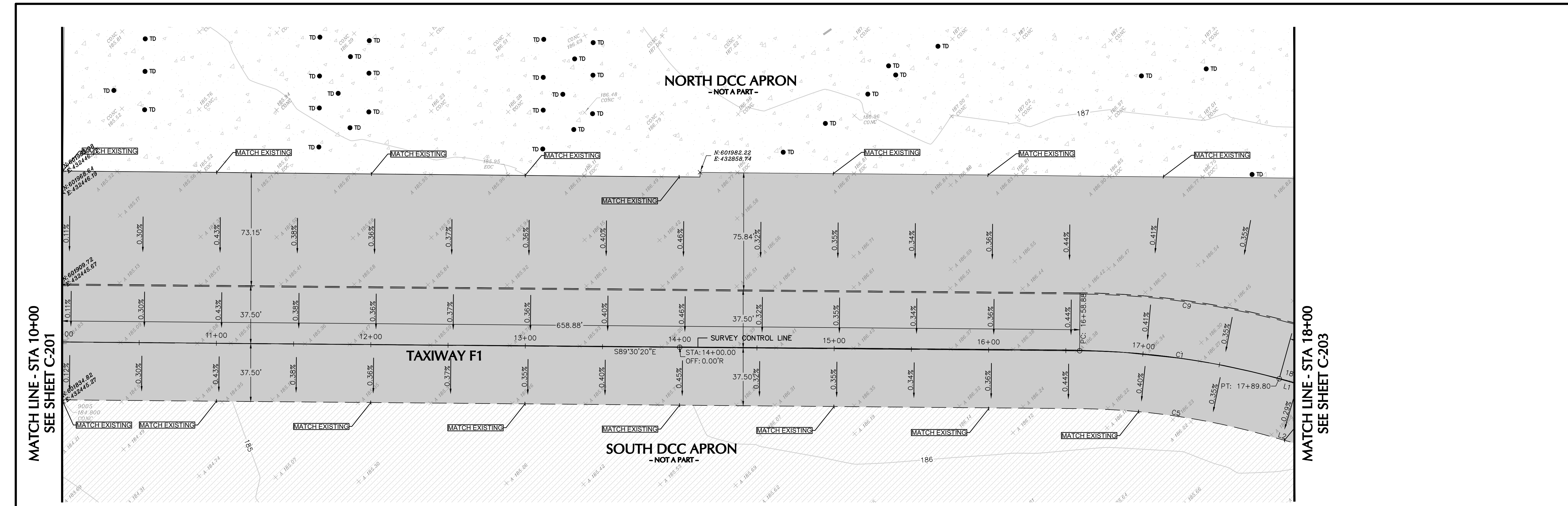
TAXIWAY F1 REHABILITATION

GRADING PLAN

NICKLAUS
ENGINEERING, INC.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

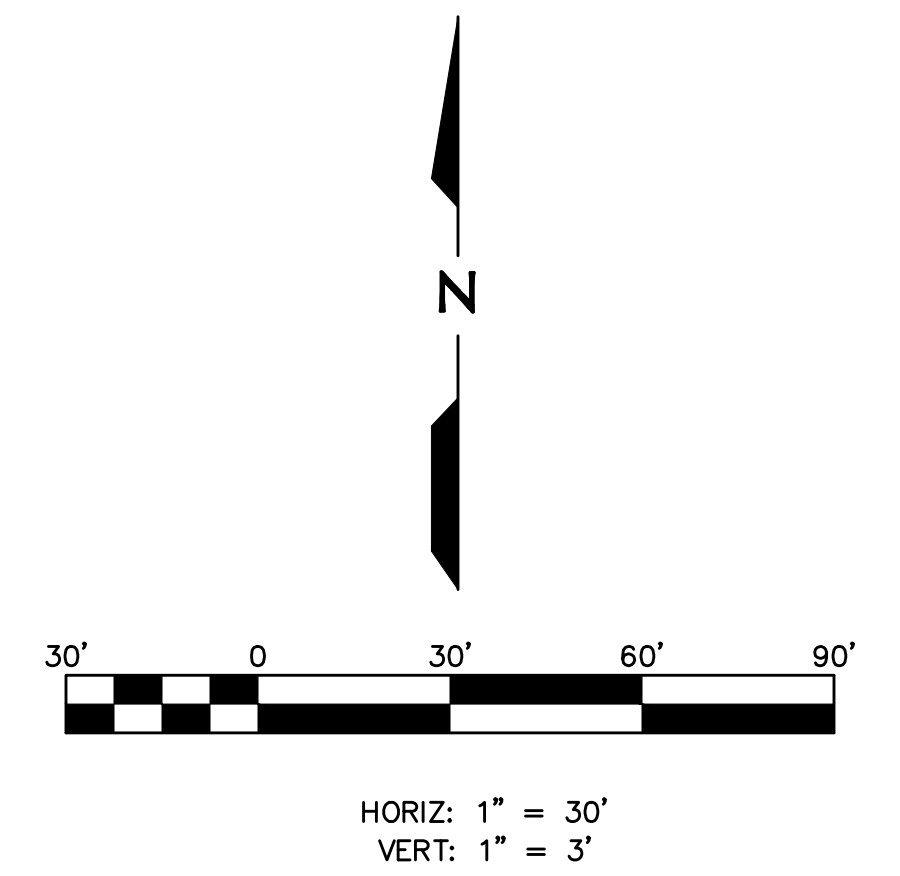
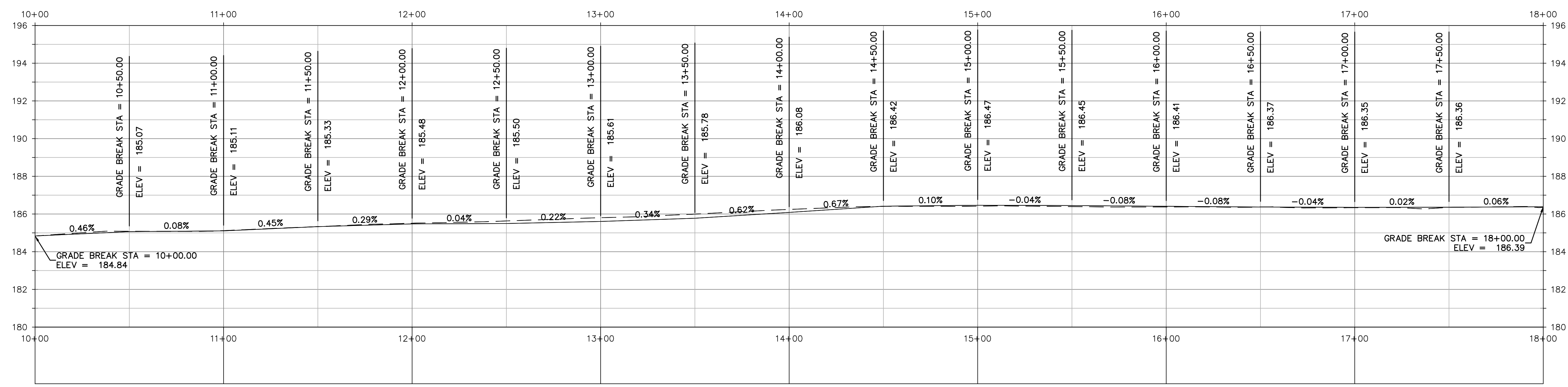
SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
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SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 14 OF 47

C201



MATCH LINE - STA 10+00
SEE SHEET C-201

MATCH LINE - STA 18+00
SEE SHEET C-203



UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



TAXIWAY F1 REHABILITATION

GRADING PLAN AND PROFILE

NICKLAUS
ENGINEERING, INC.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 16 OF 47

C202

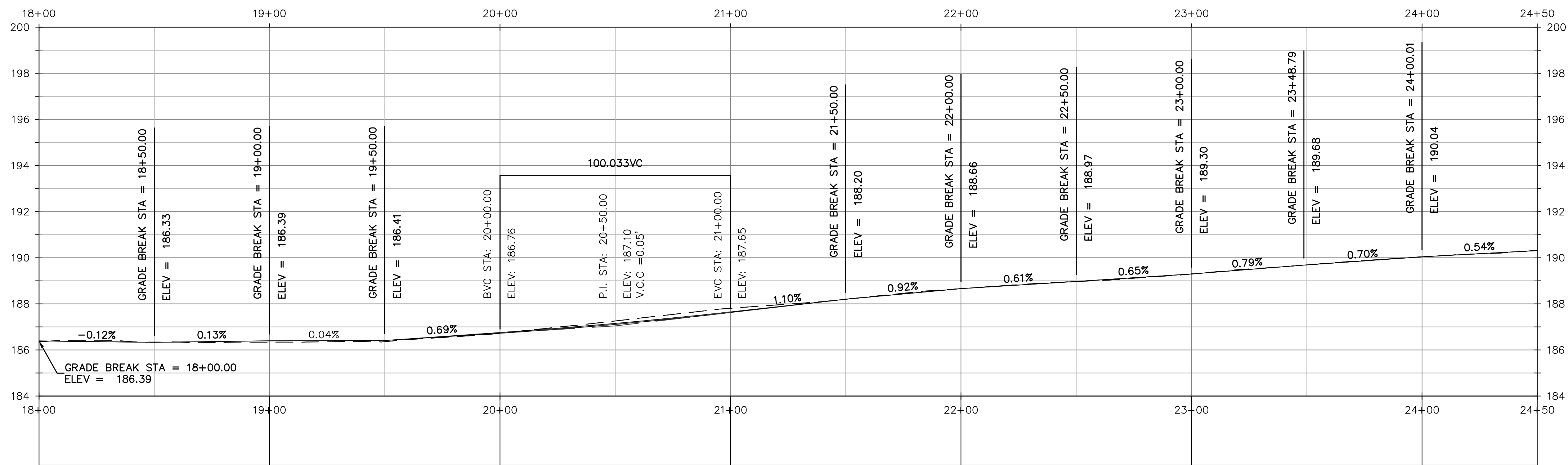
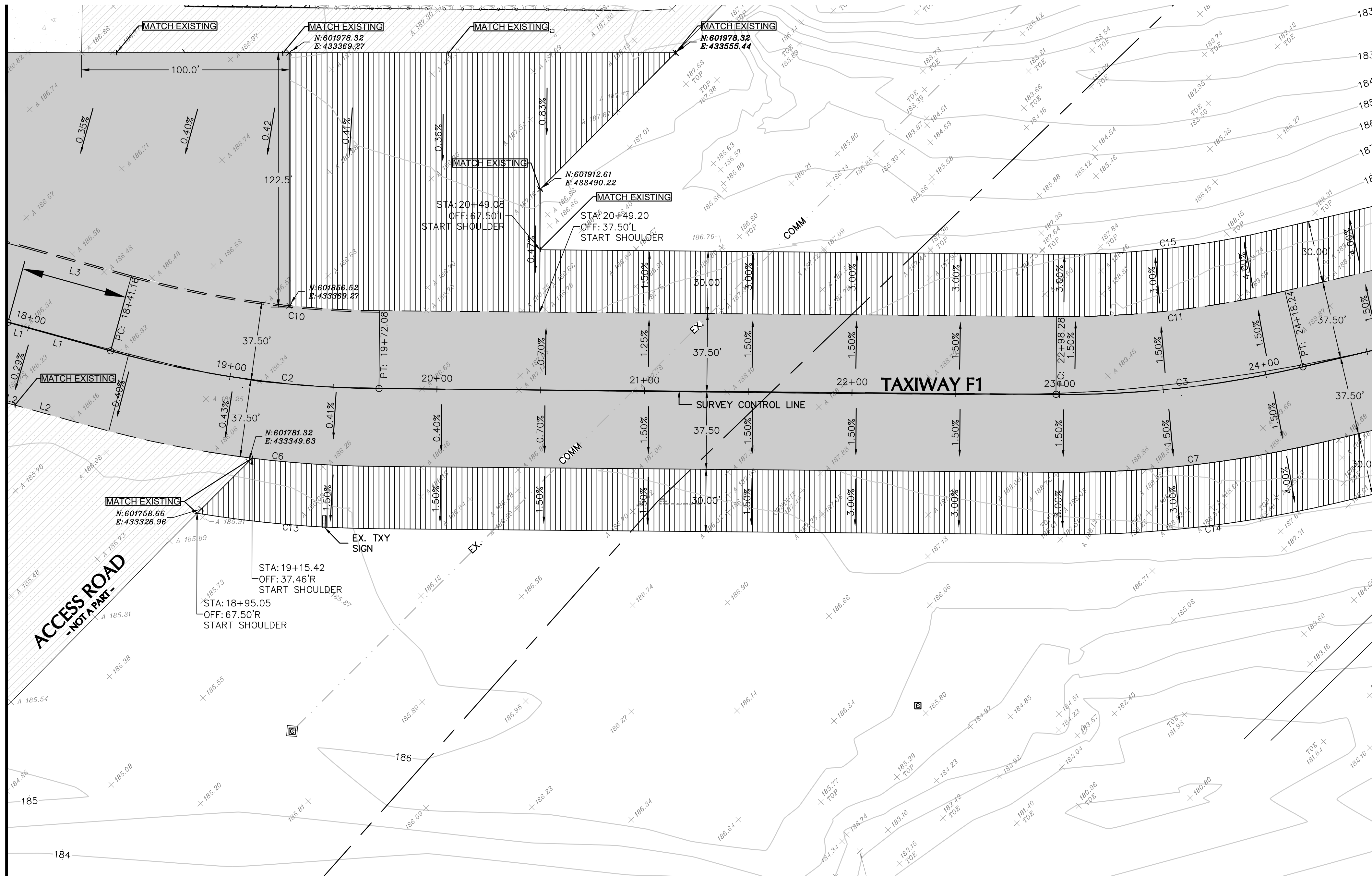
N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Grading Plan.dwg

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER, WITHOUT PREJUDICE. VISUAL CONTACT SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Grading Plan.dwg

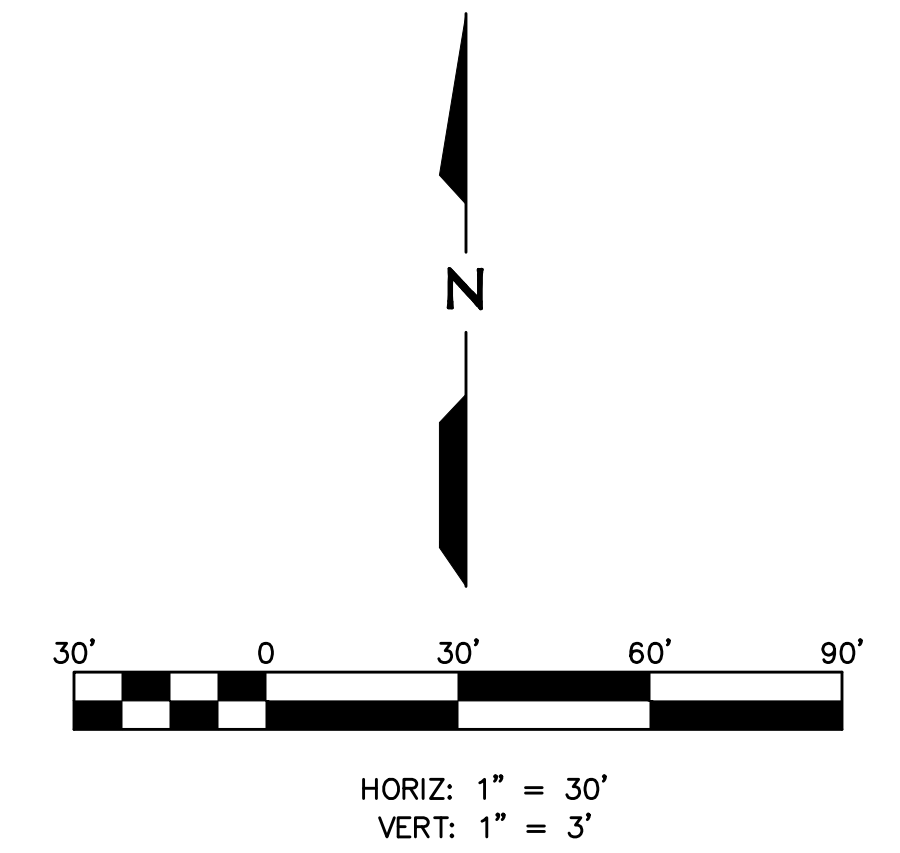
MATCH LINE STA 18+00
SEE SHEET C-202

MATCH LINE STA 24+50
SEE SHEET C-204



UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



TAXIWAY F1 REHABILITATION

GRADING PLAN AND PROFILE

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 17 OF 47

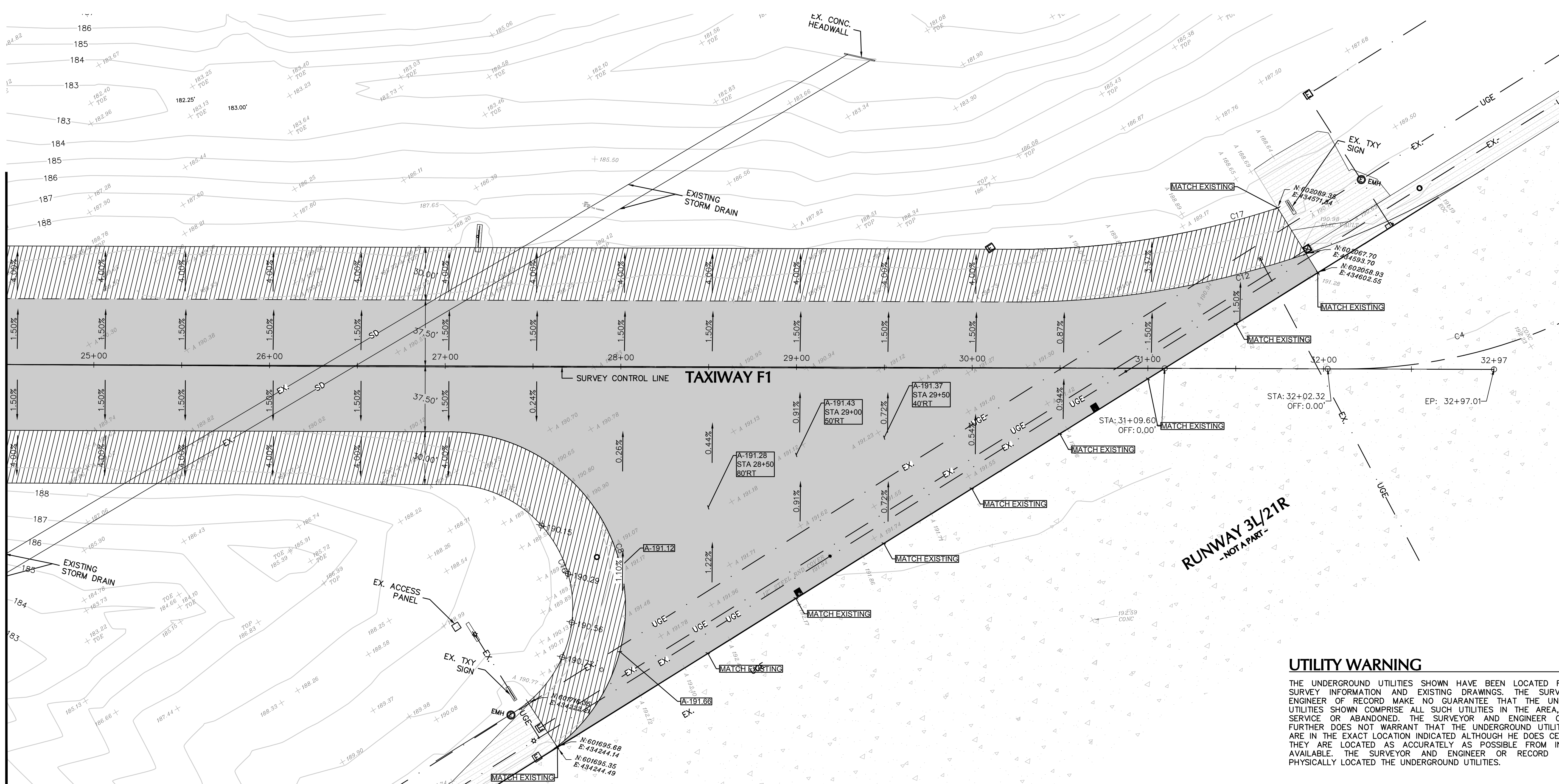
NICKLAUS
ENGINEERING, INC.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

C203



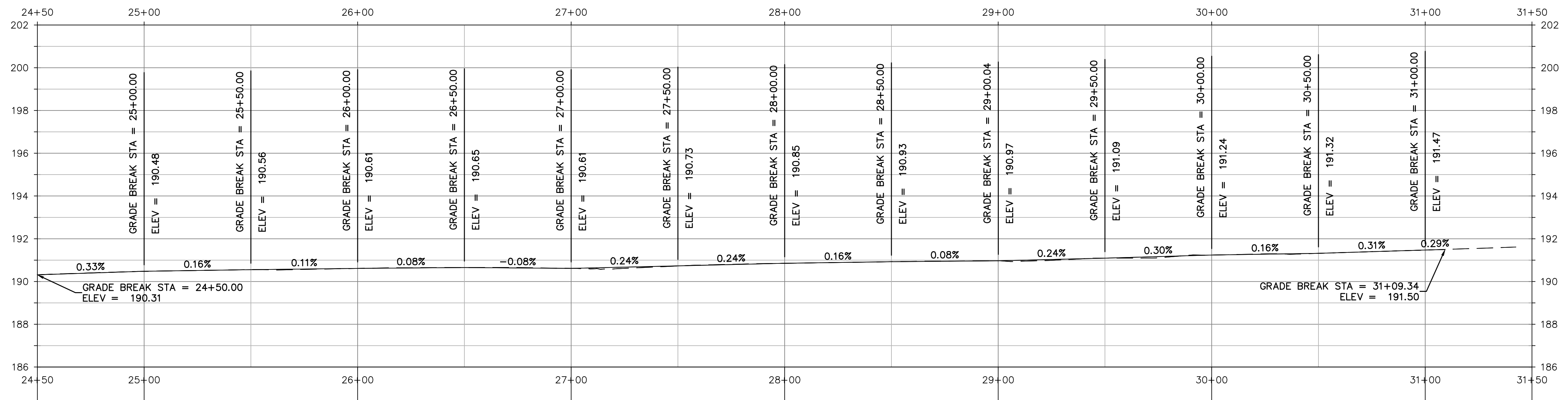
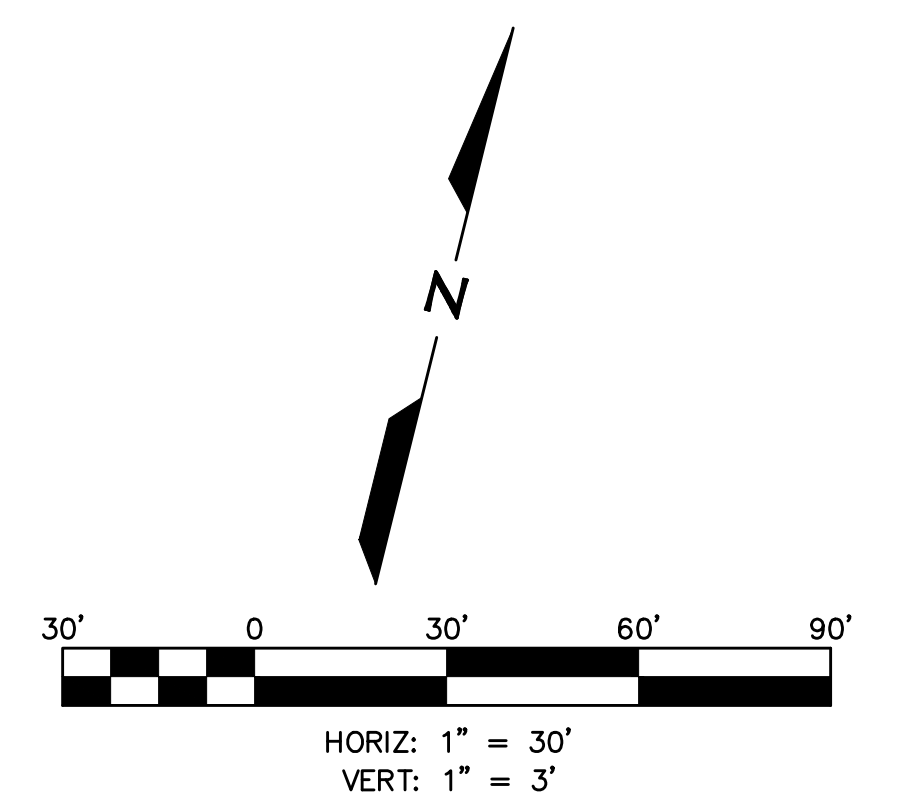
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER, WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

MATCH LINE - STA 24+50
SEE SHEET C-203



UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



TAXIWAY F1 REHABILITATION

GRADING PLAN, PROFILE, AND SECTIONS

NICKLAUS
ENGINEERING, INC.

1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

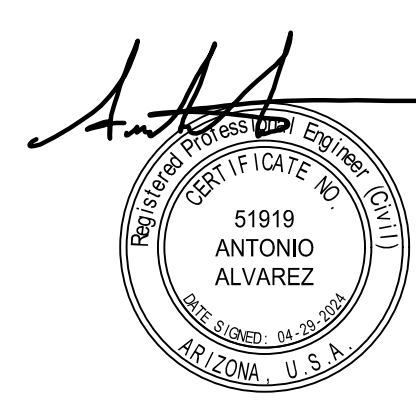
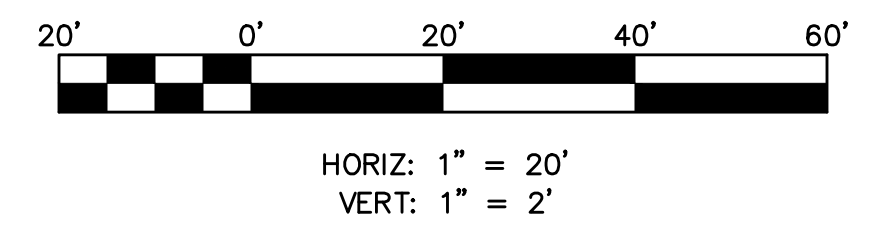
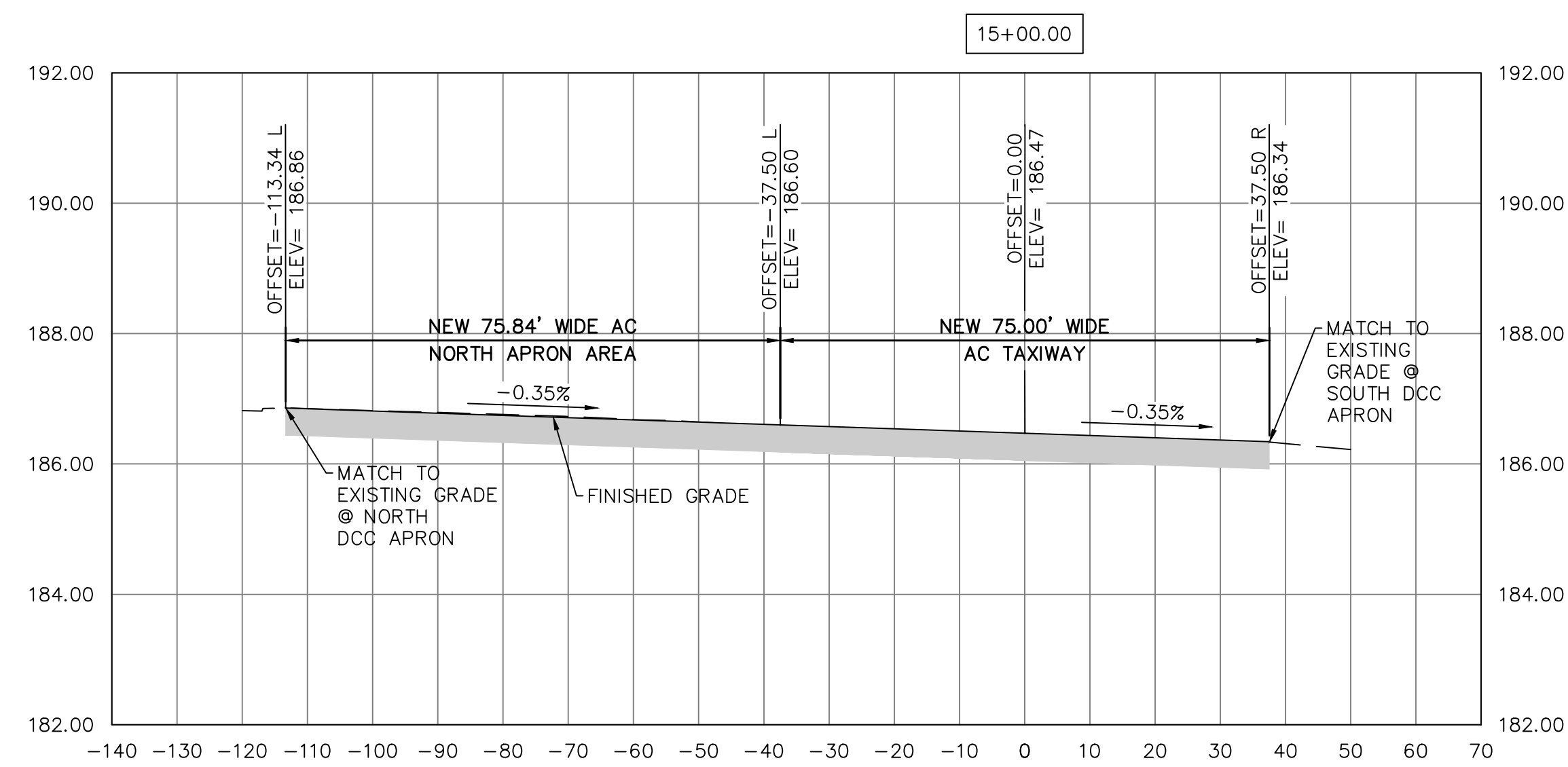
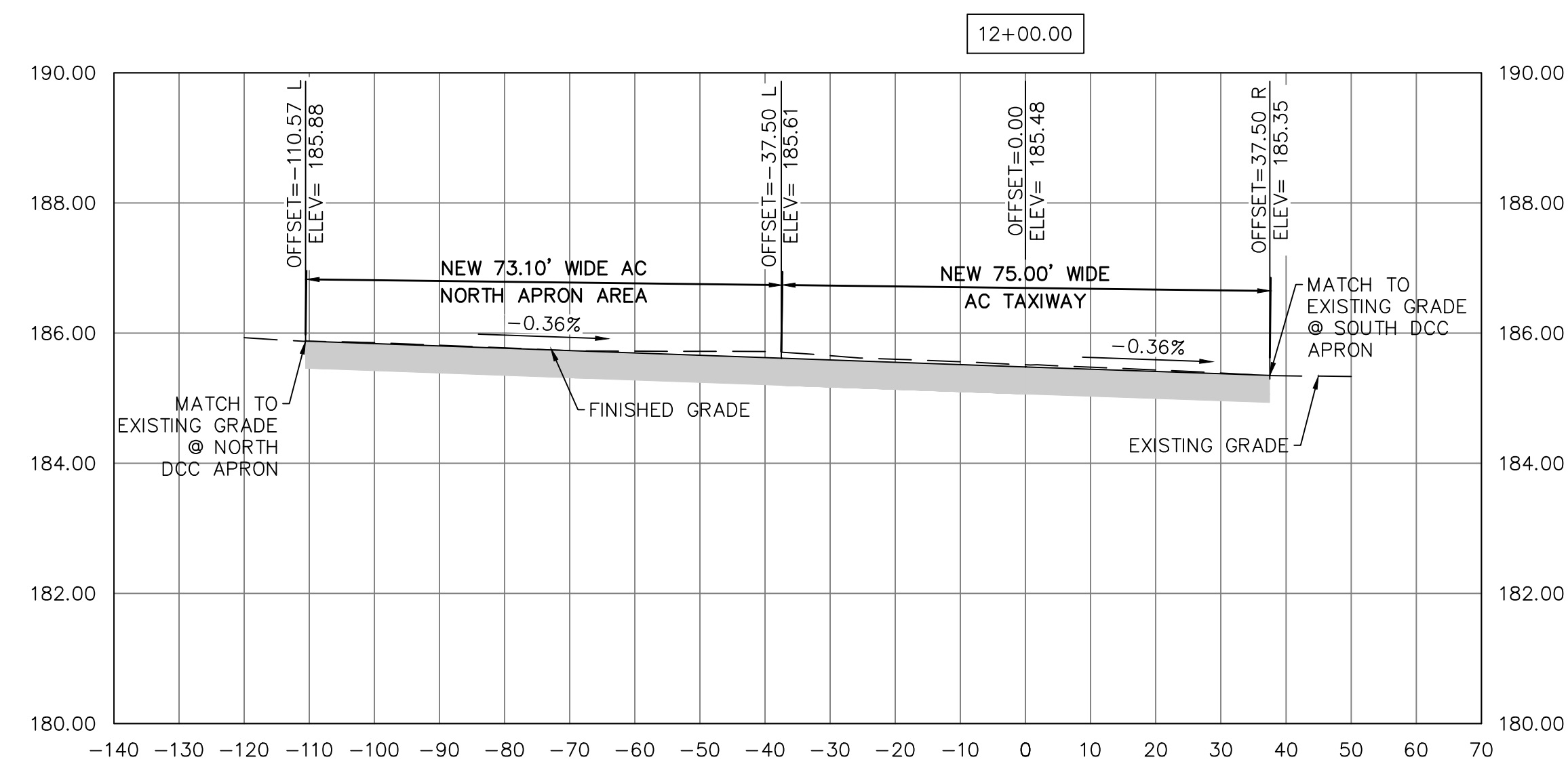
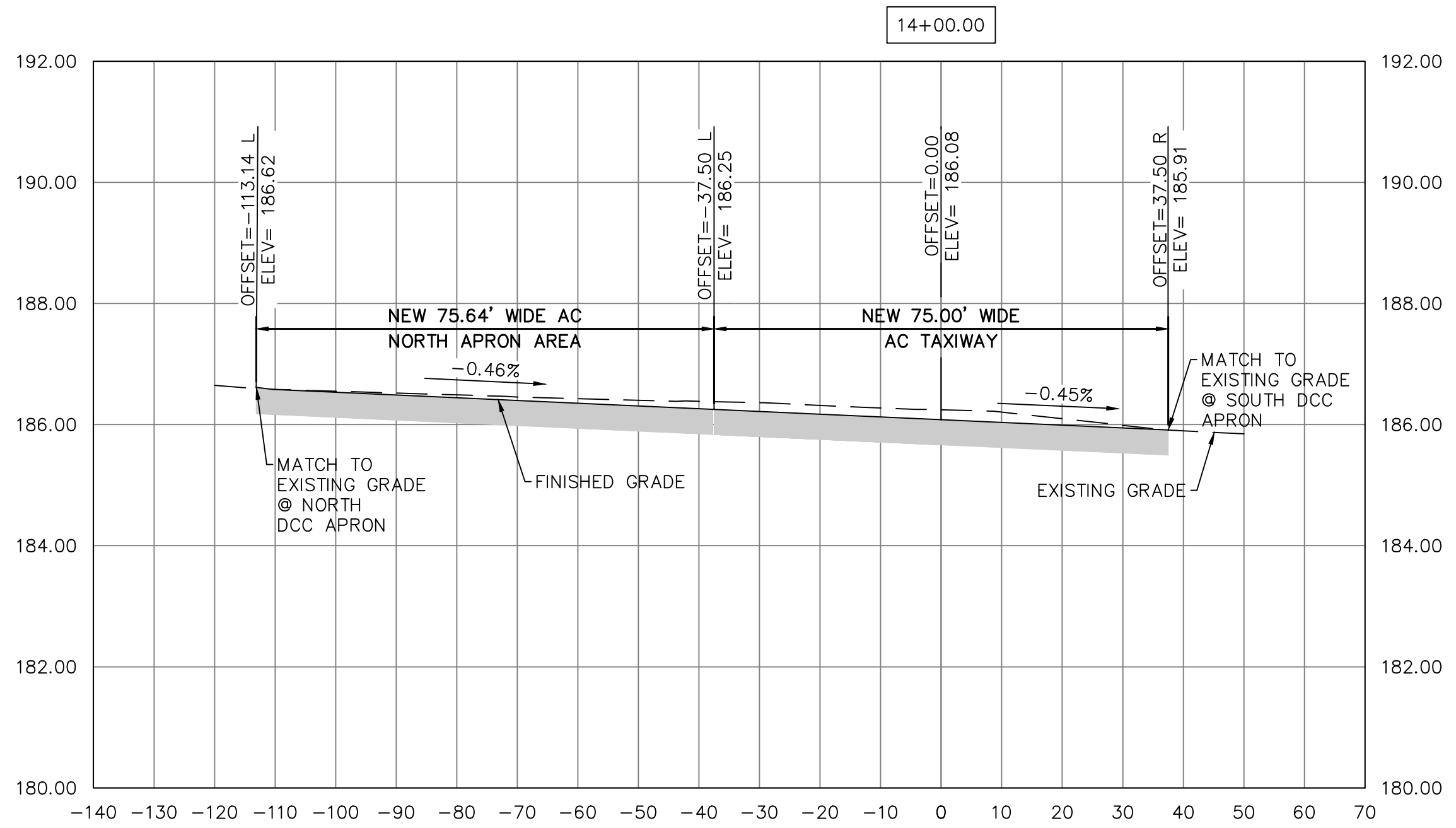
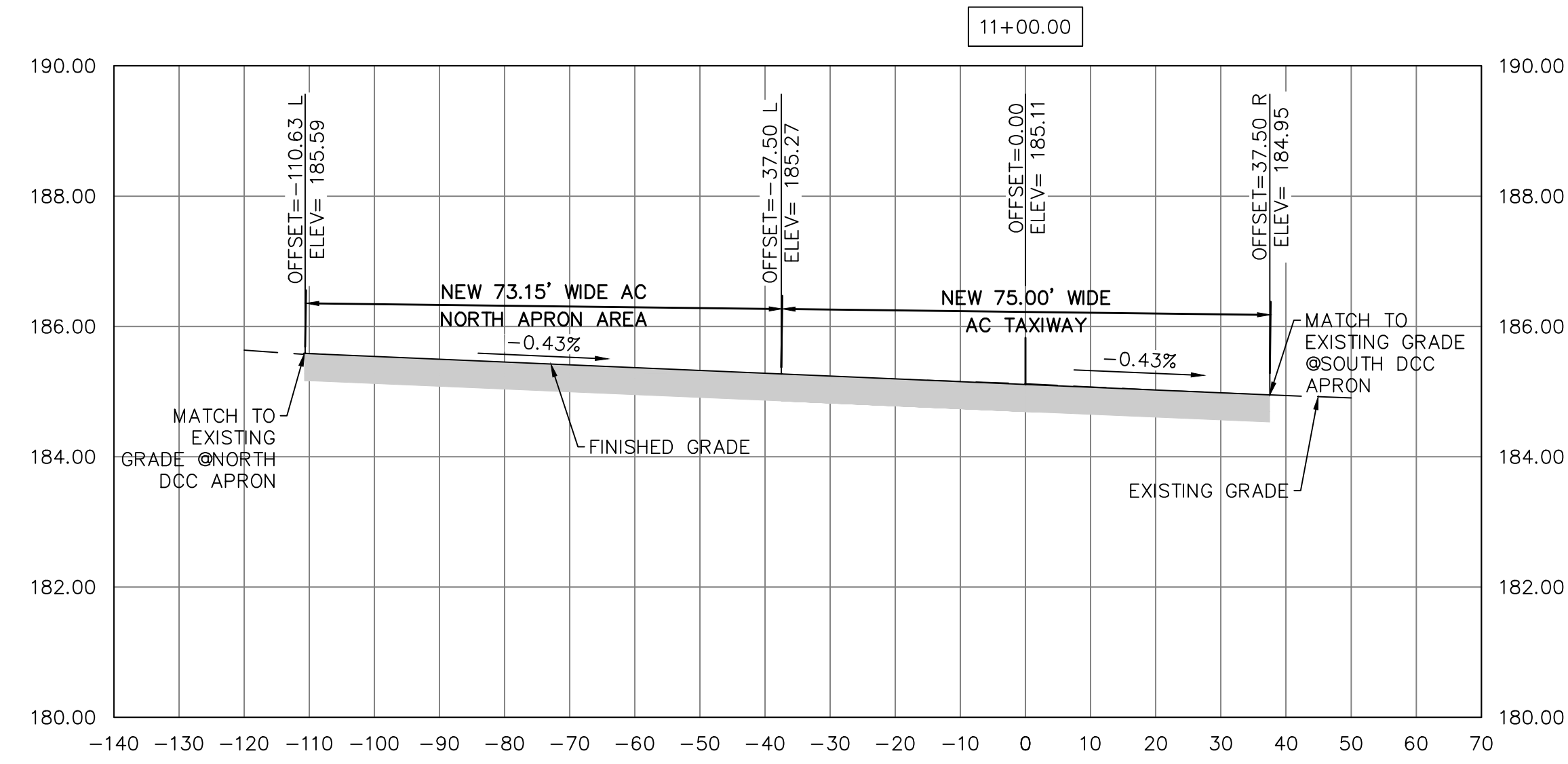
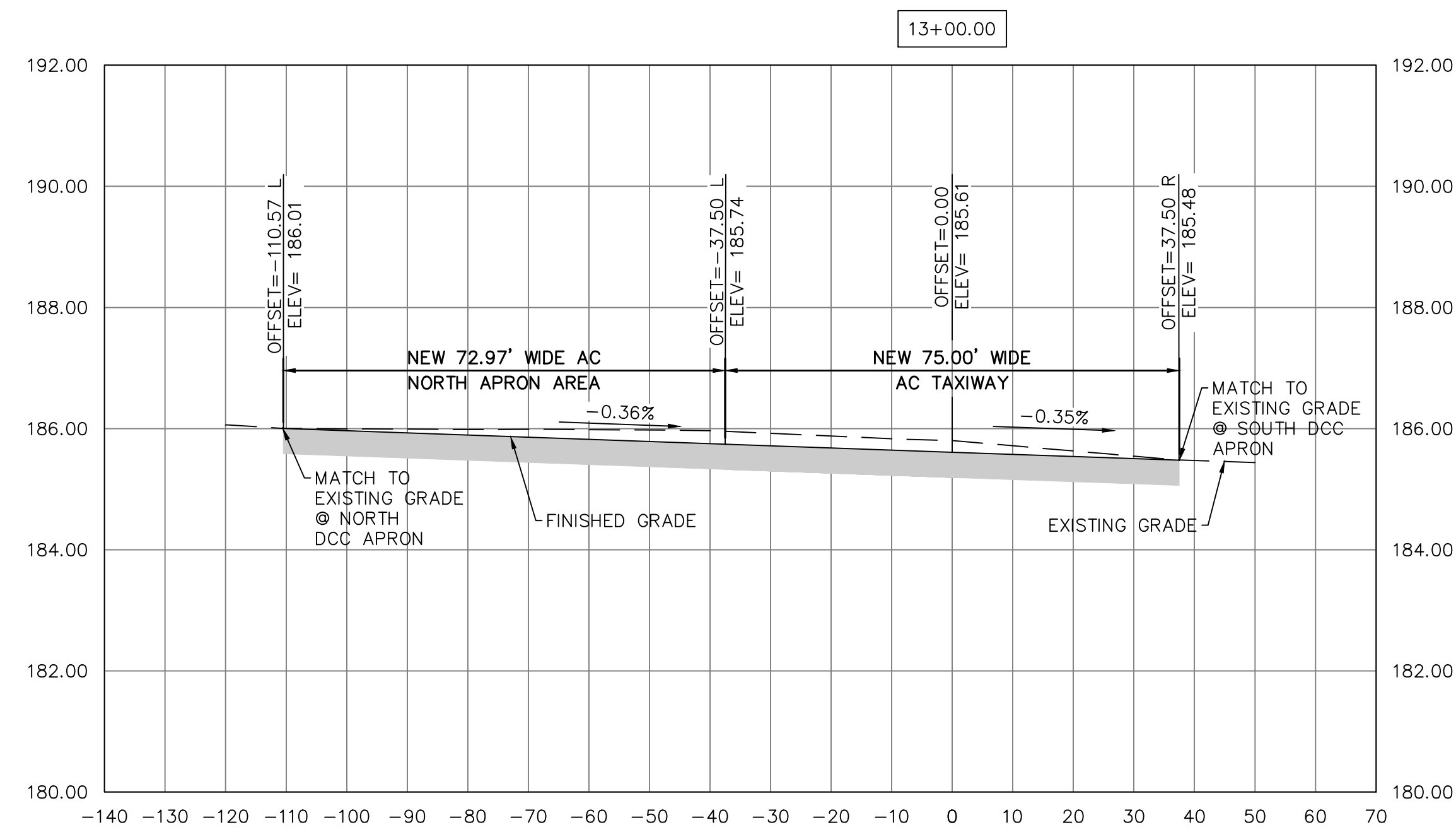
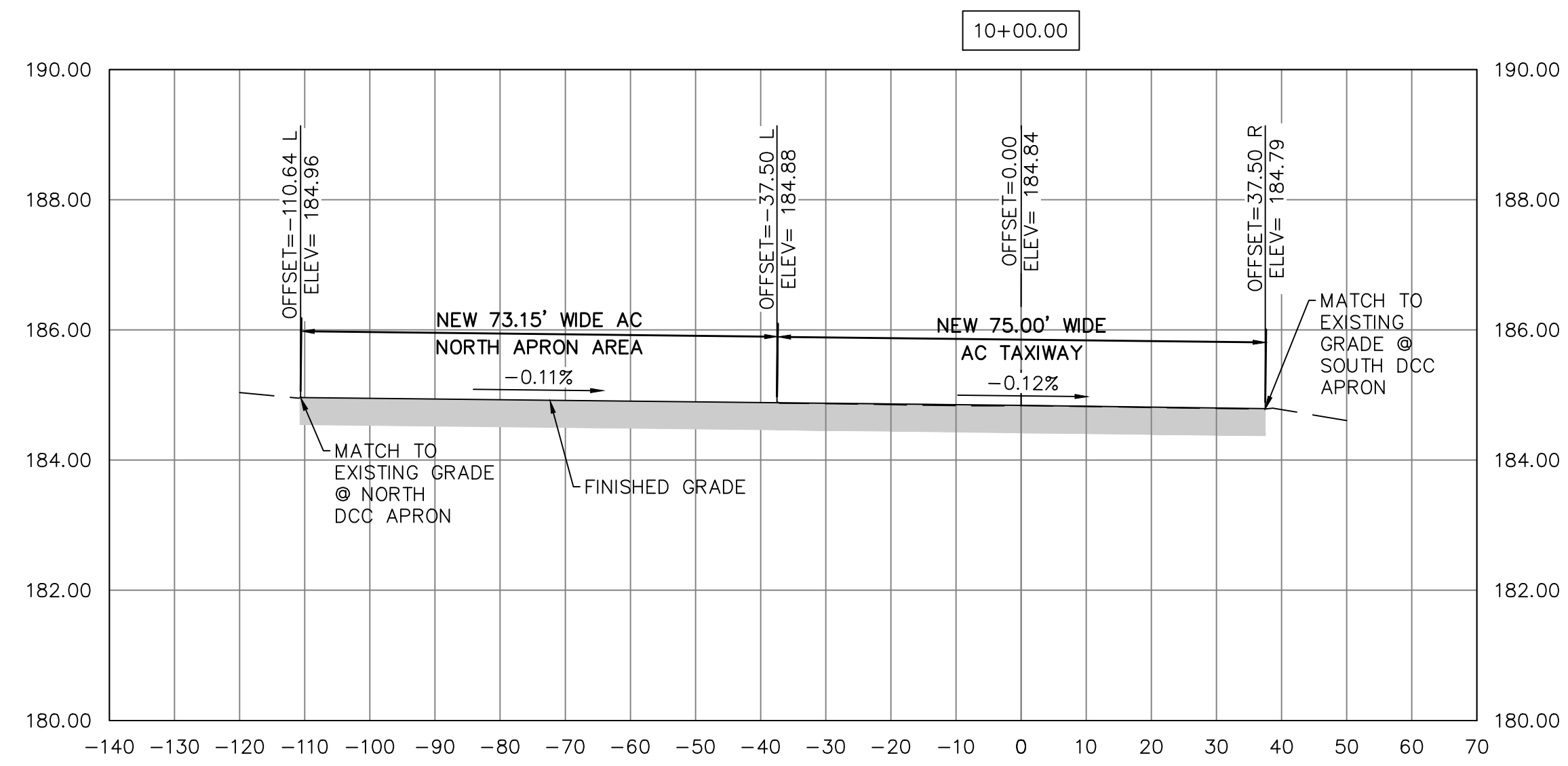
SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 18 OF 47

C204

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Grading Area.dwg

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER, WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

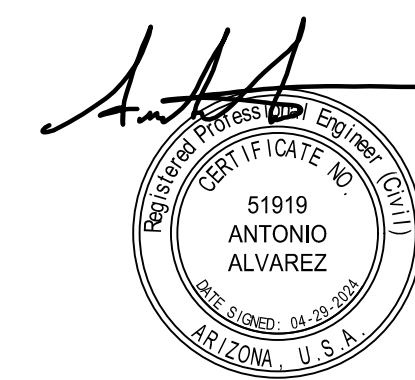
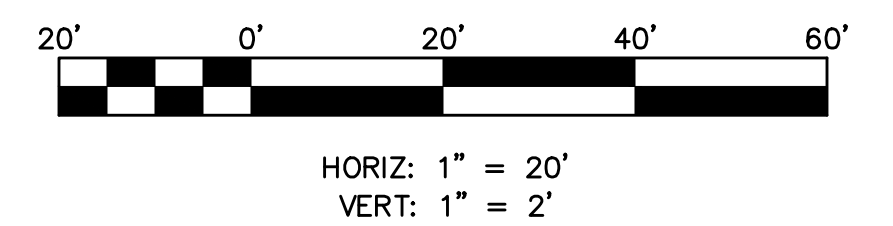
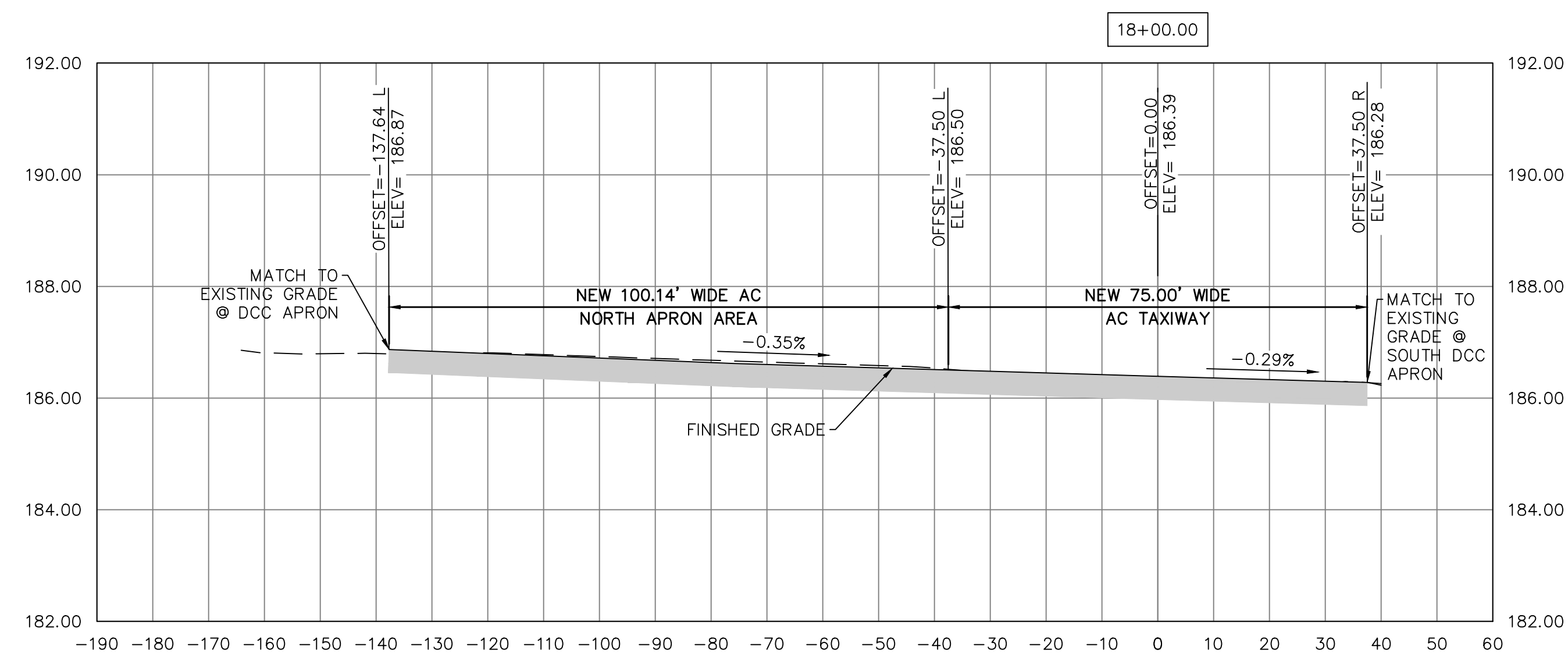
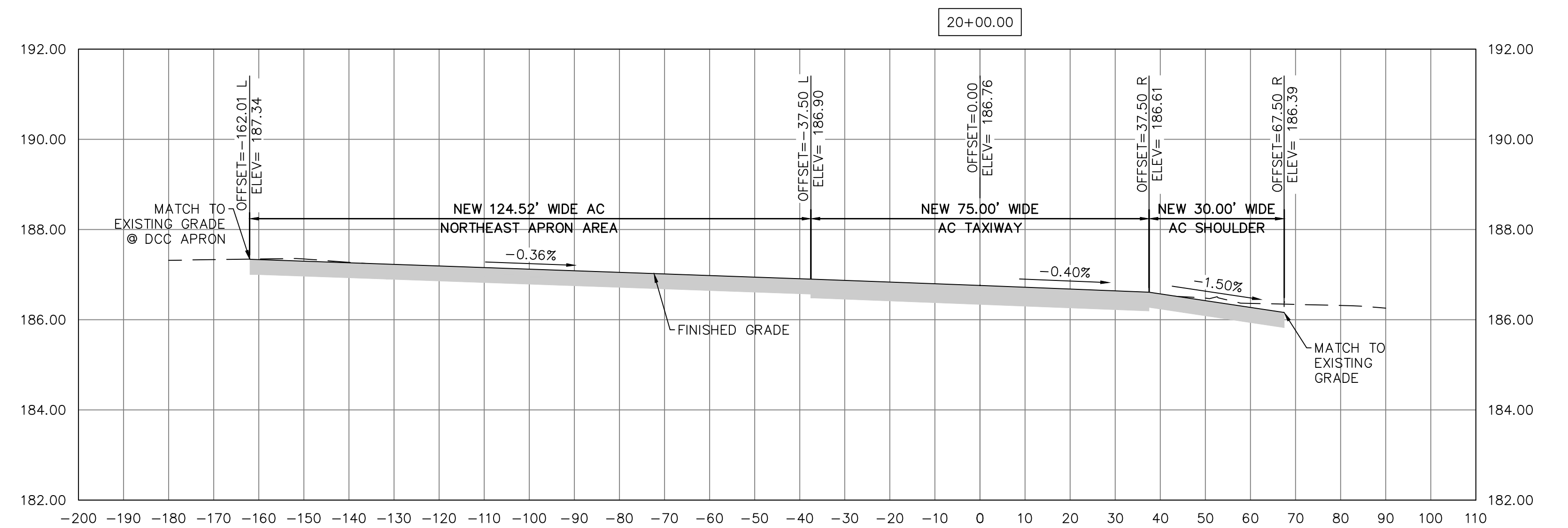
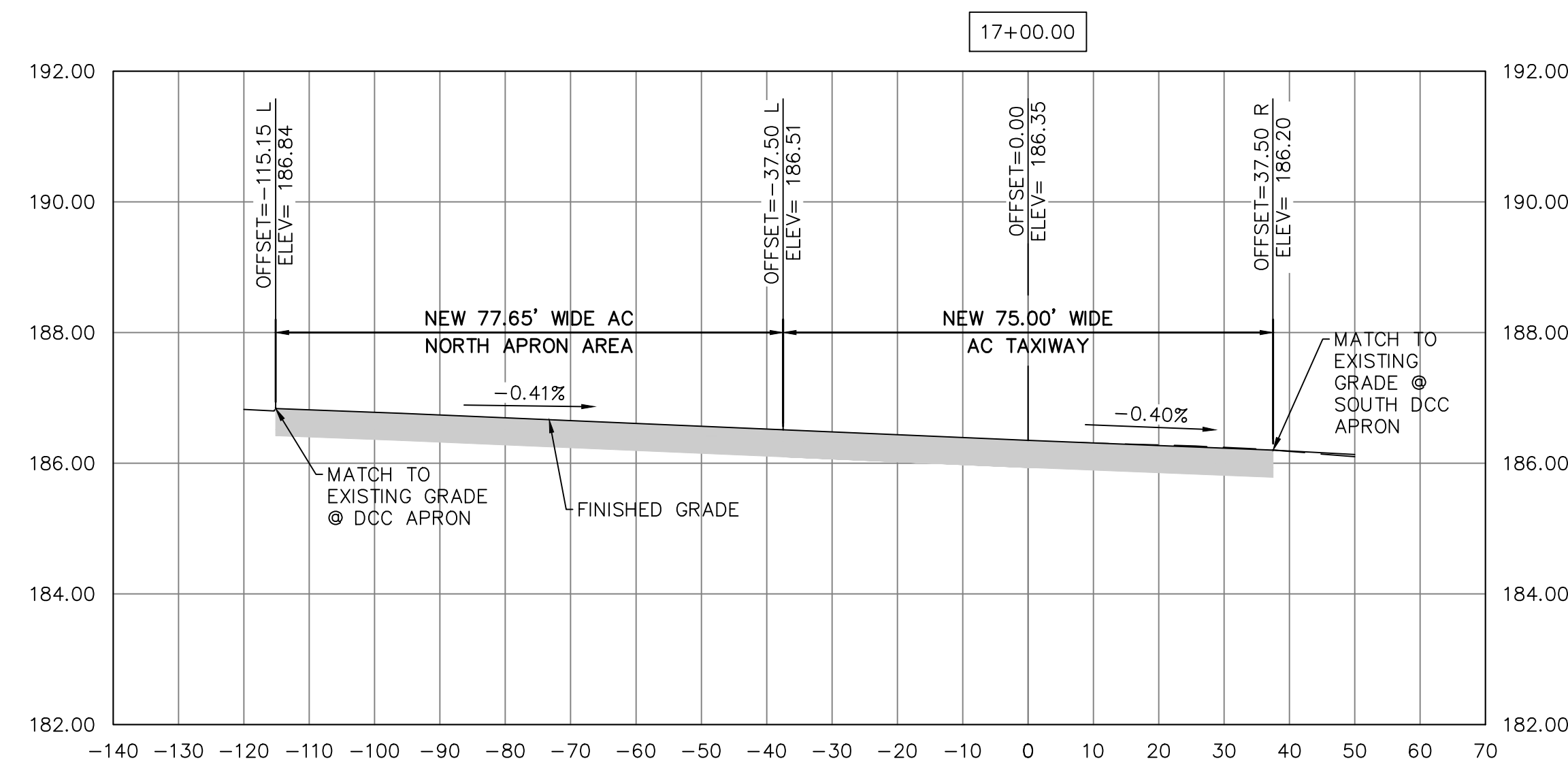
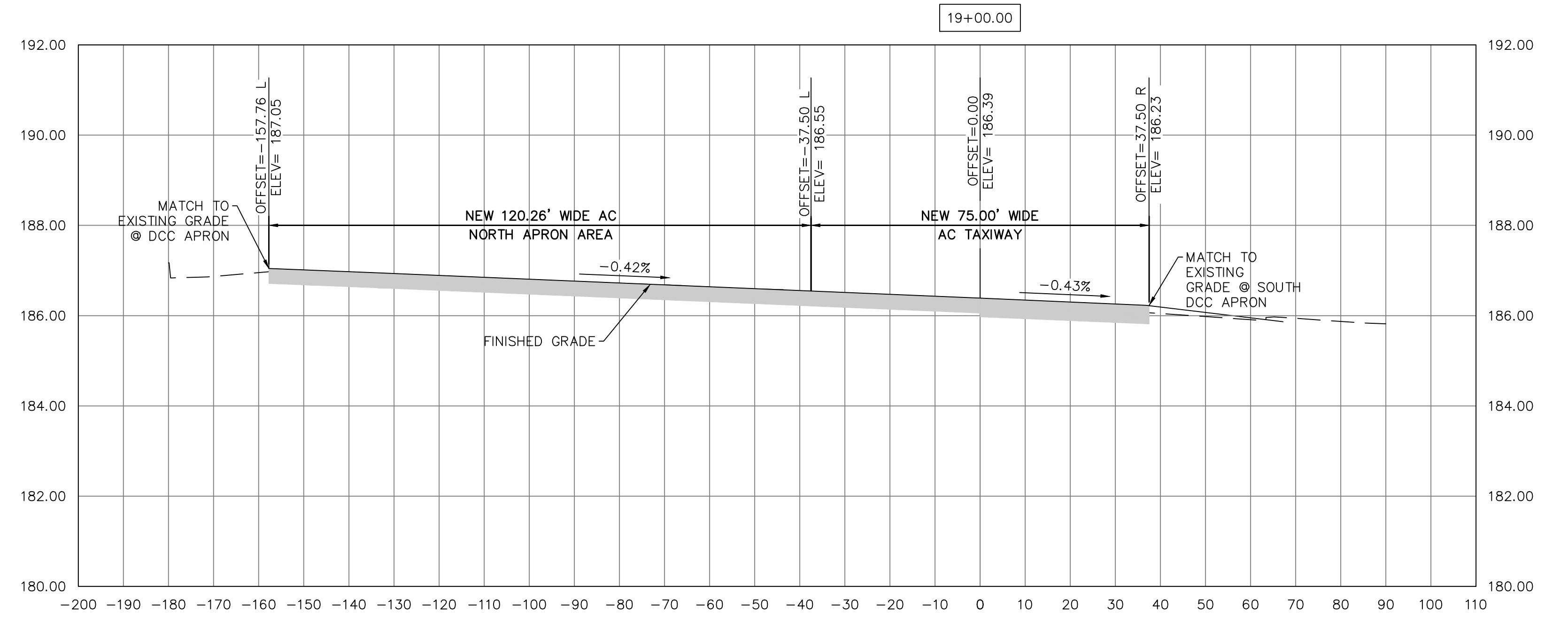
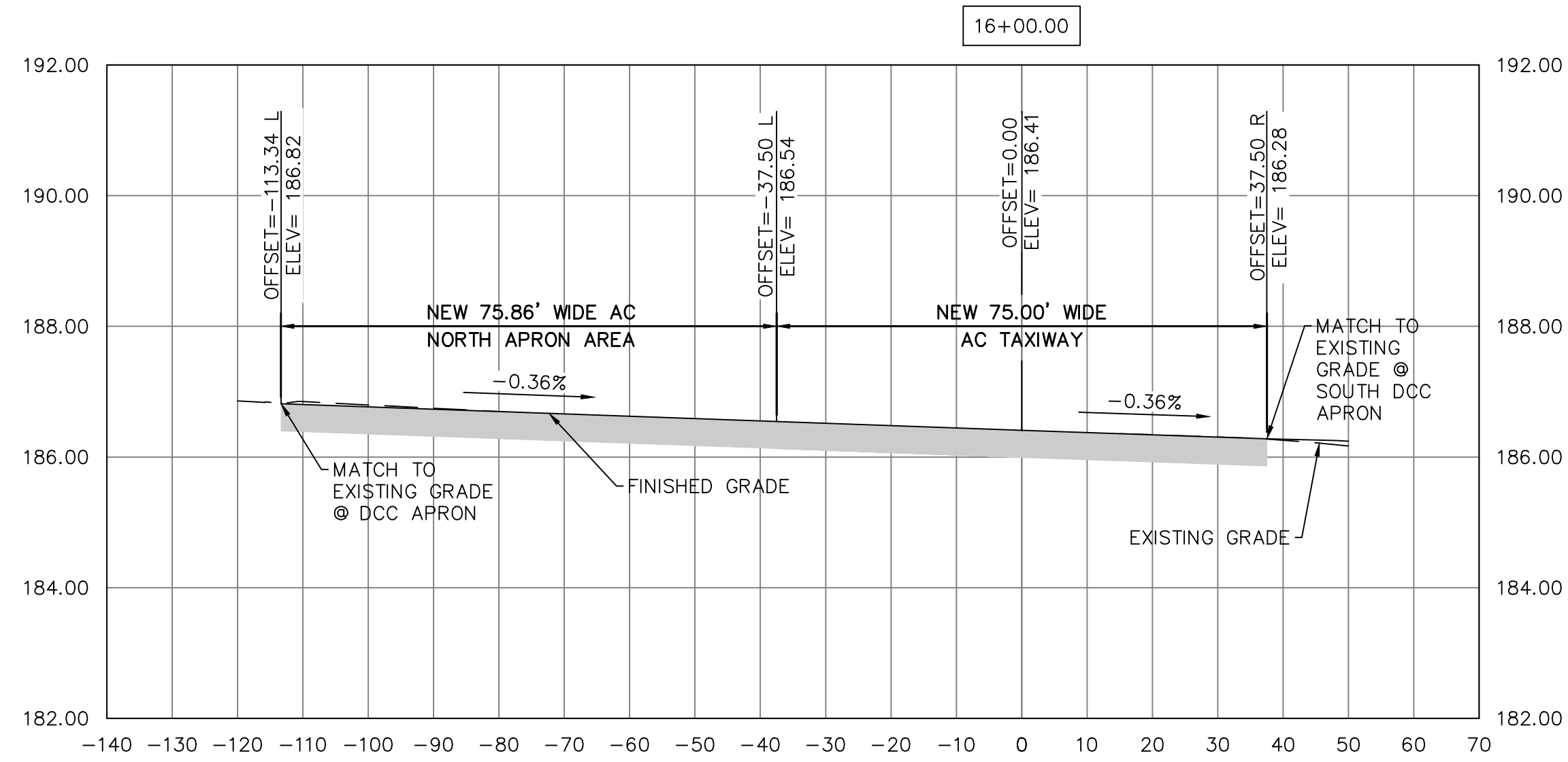
N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%&eng



TAXIWAY F1 REHABILITATION	
CROSS SECTIONS	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 18 OF 47	C205

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER, WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

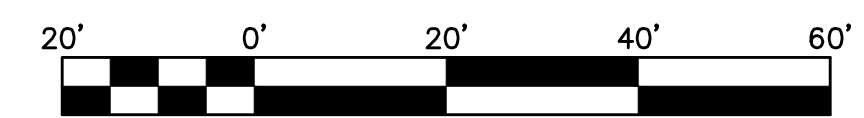
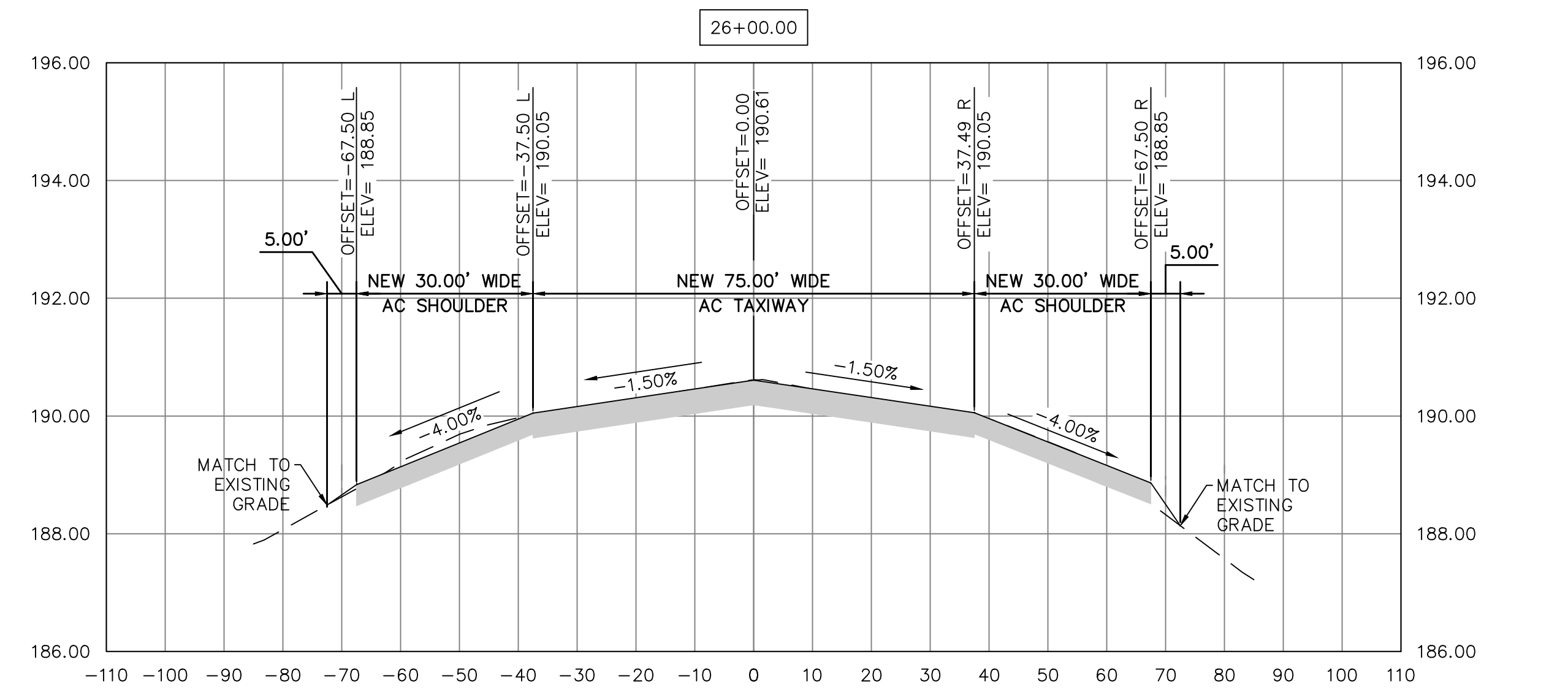
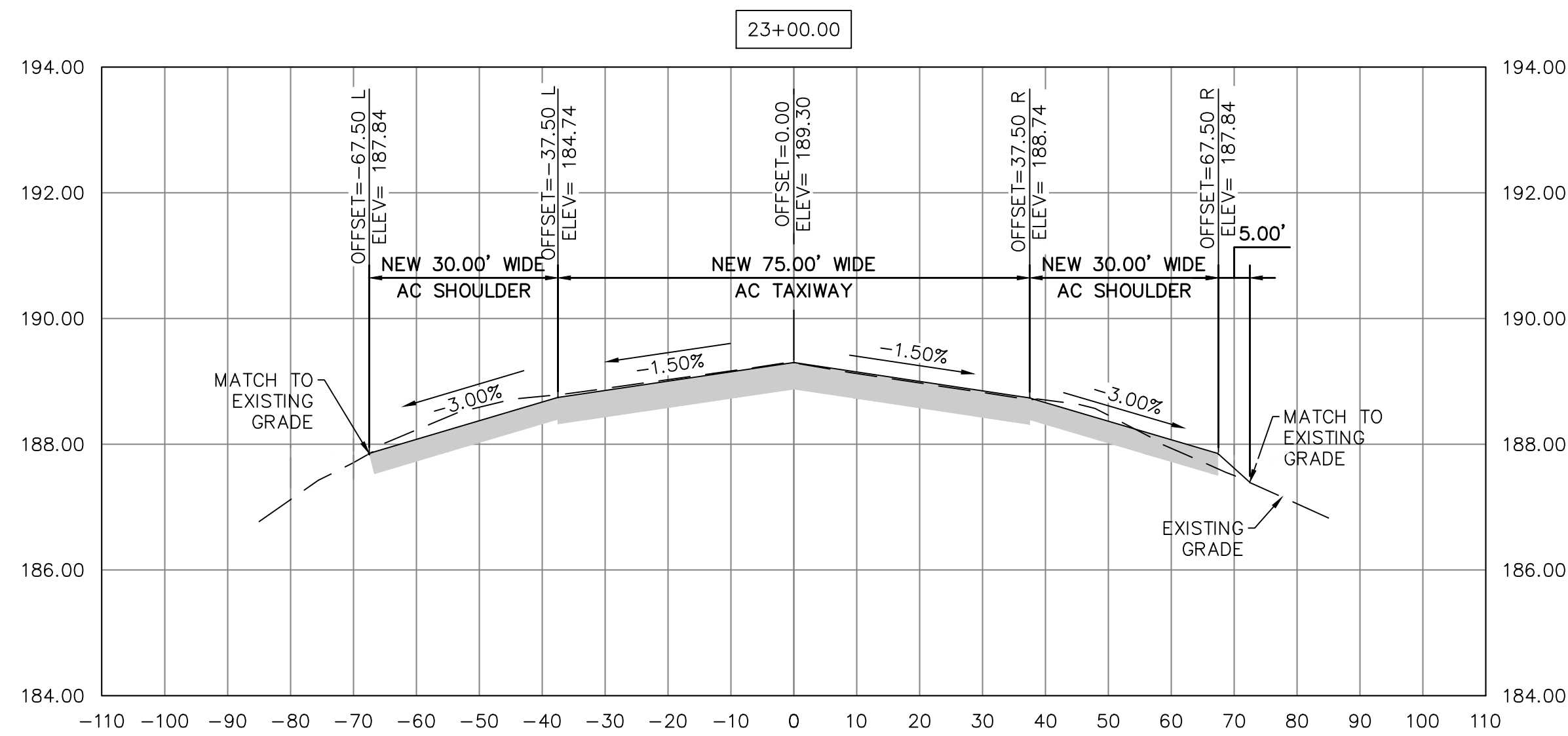
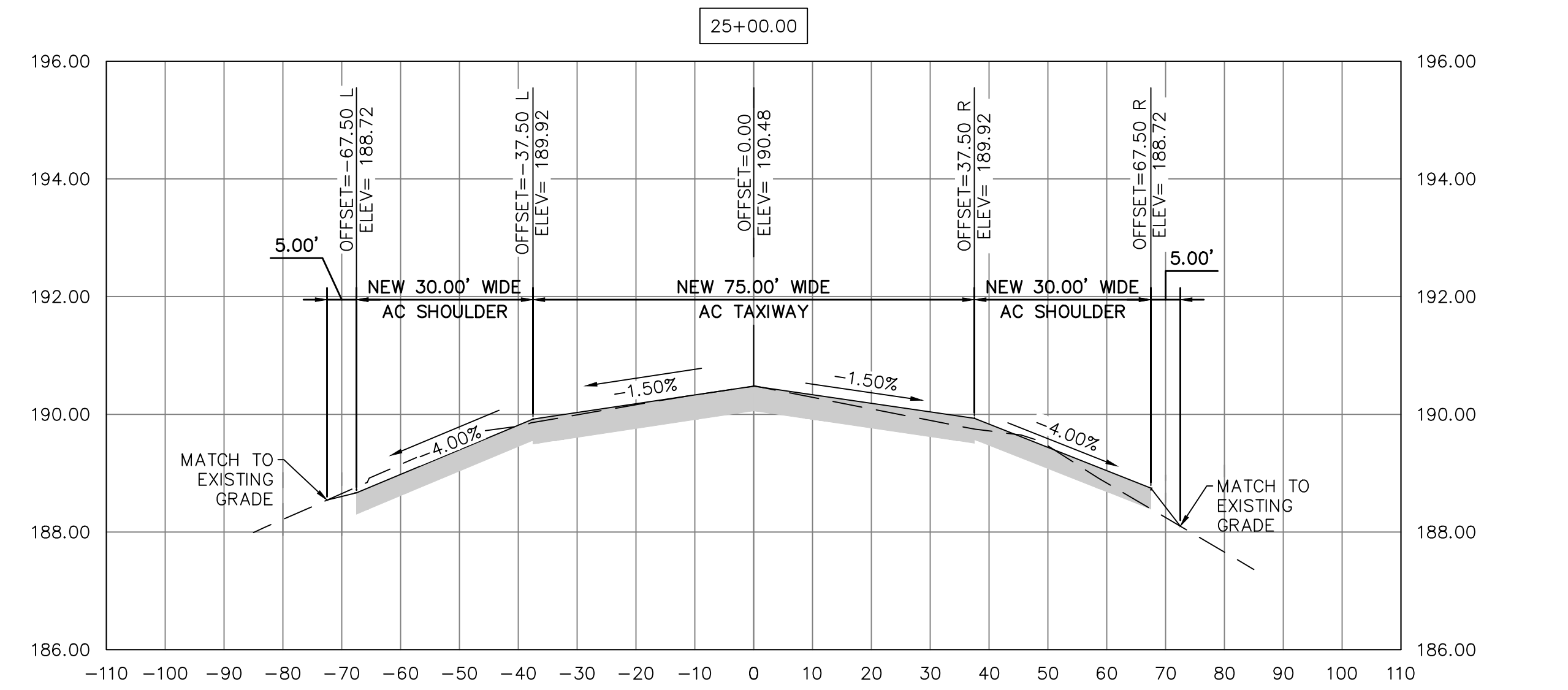
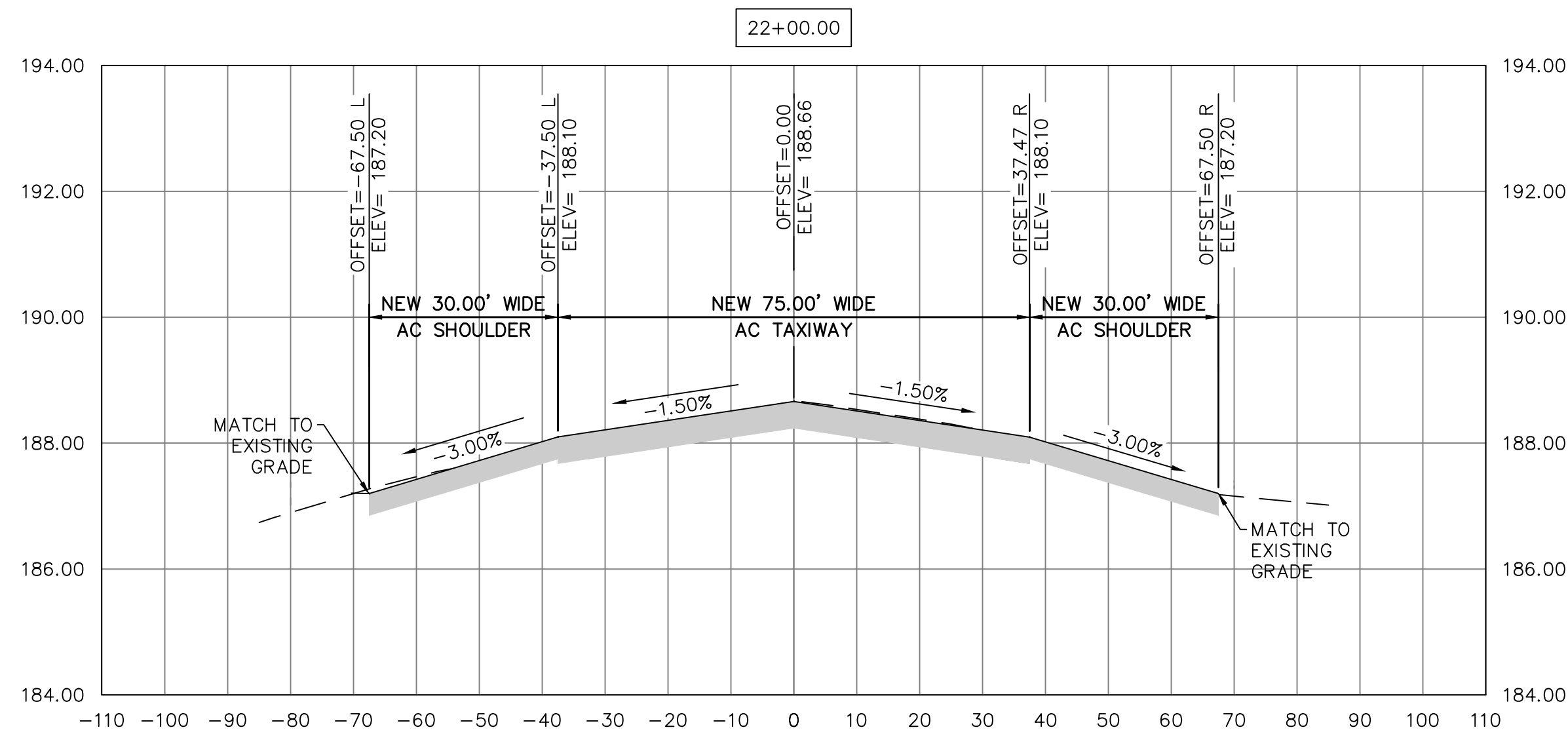
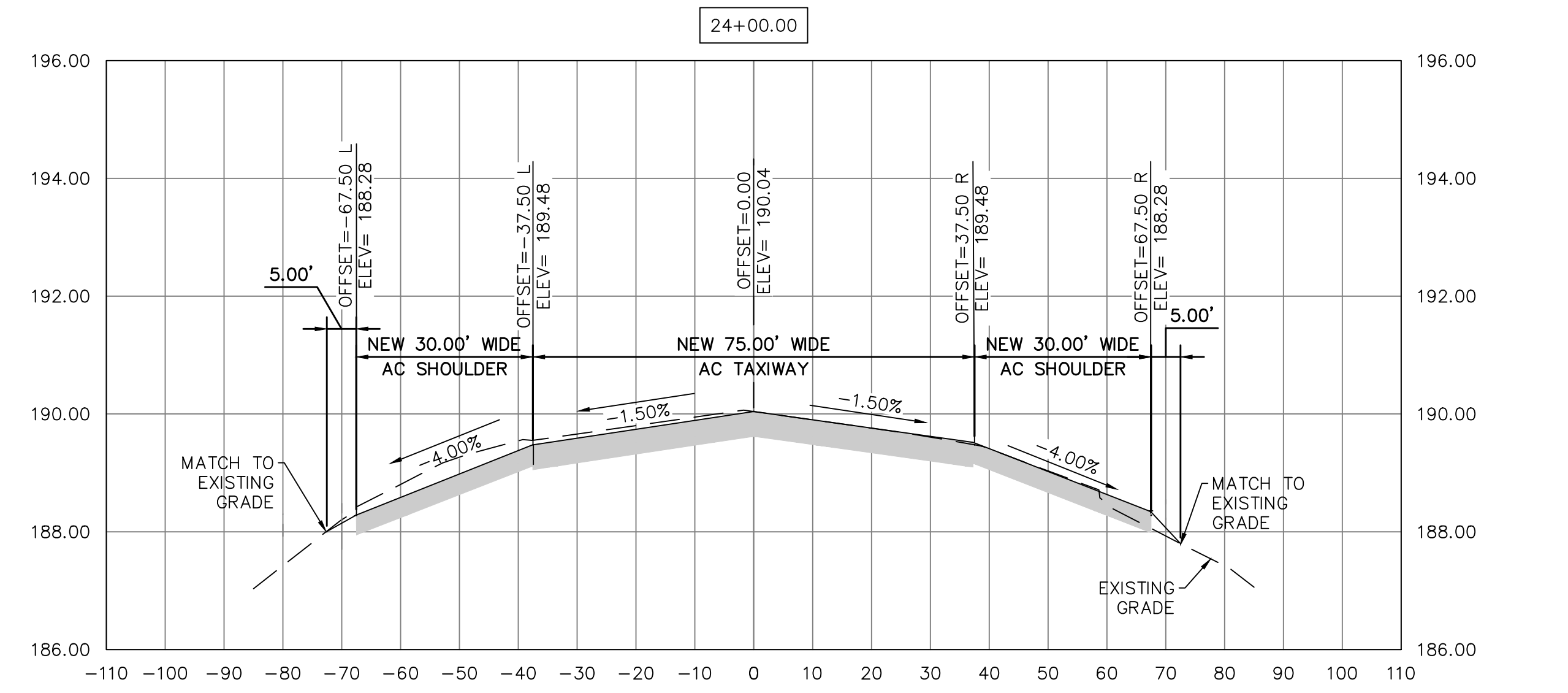
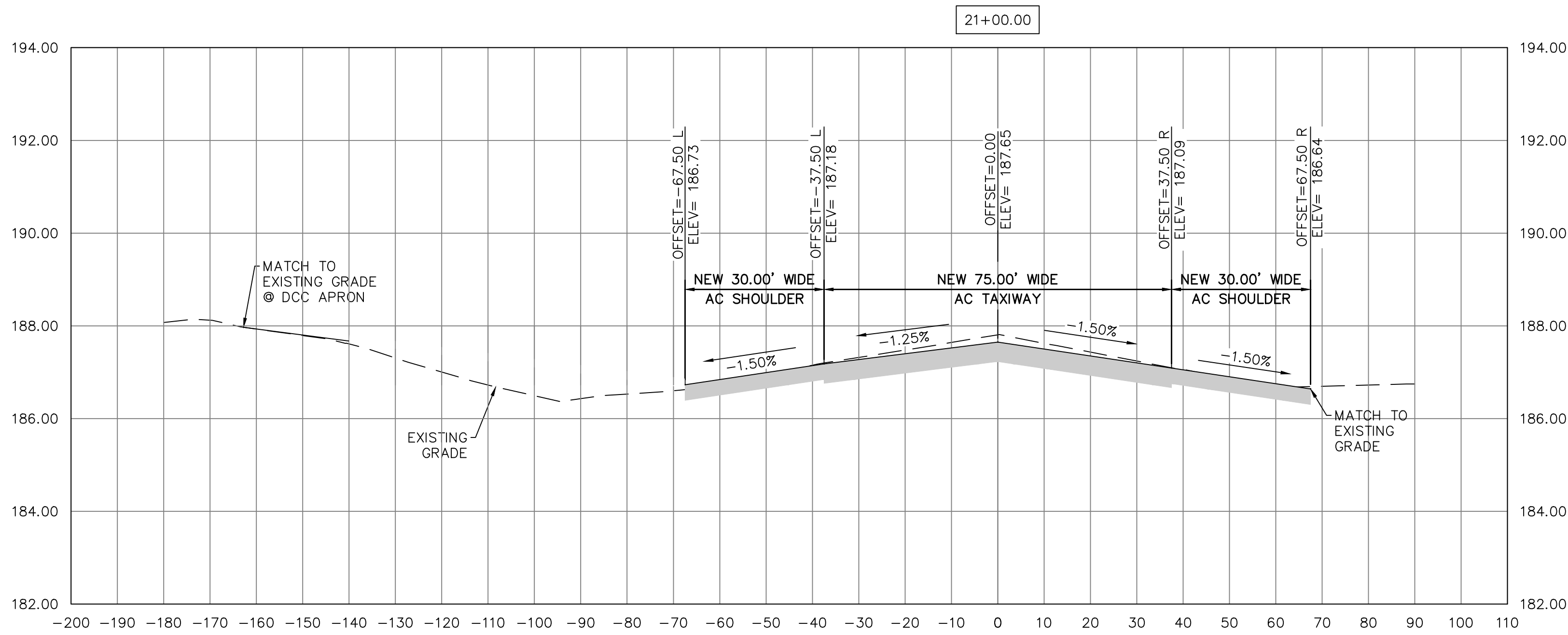
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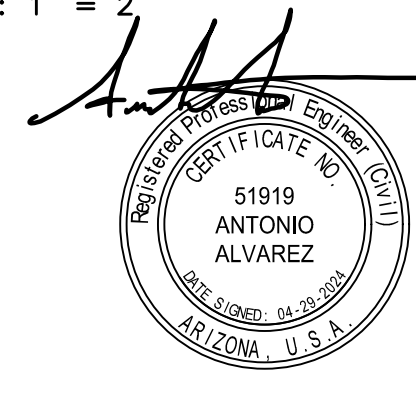
TAXIWAY F1 REHABILITATION	
CROSS SECTIONS	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 19 OF 47	C206

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%.dwg



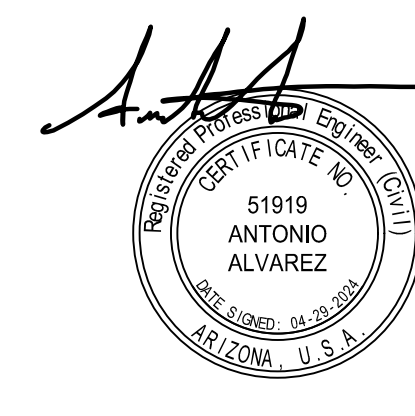
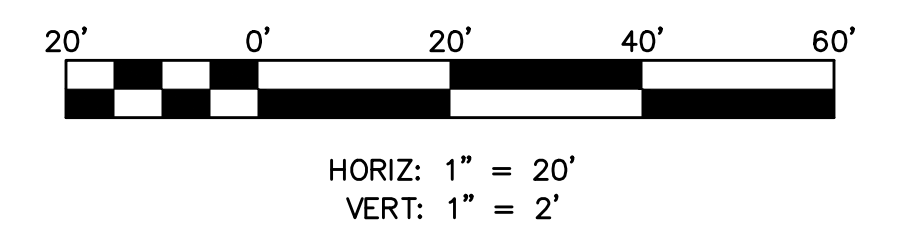
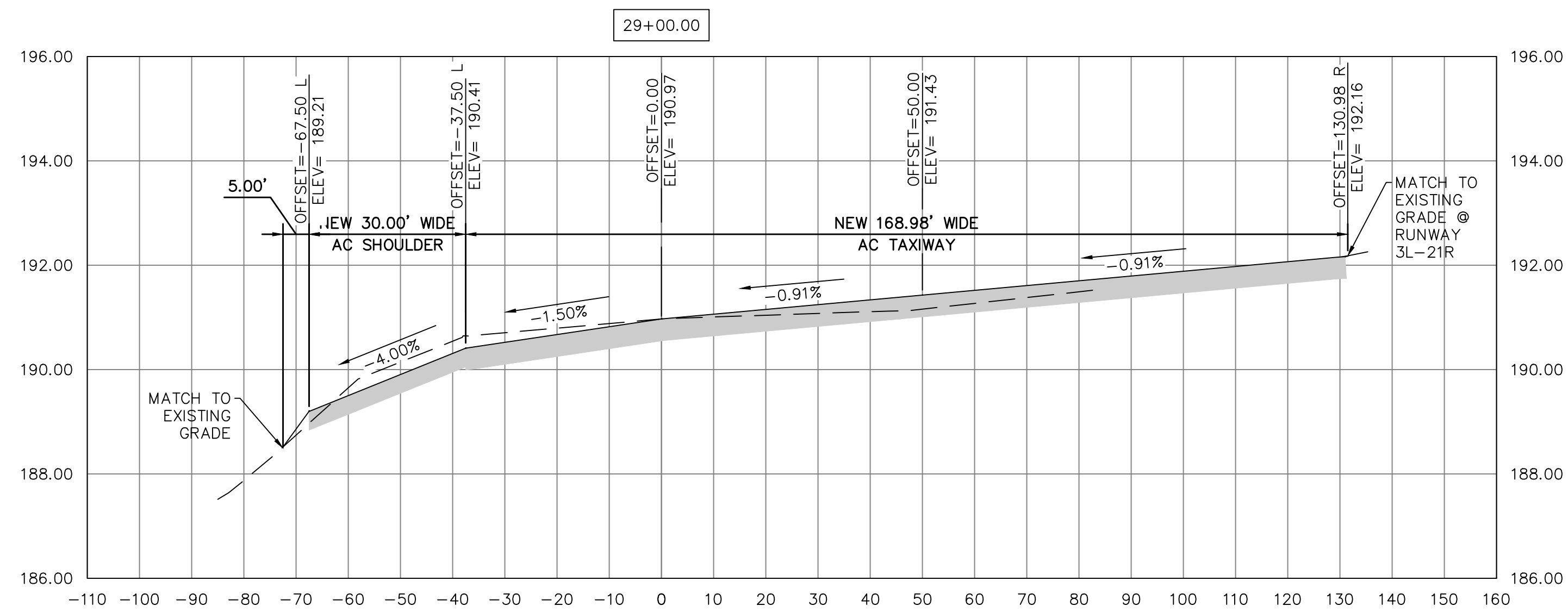
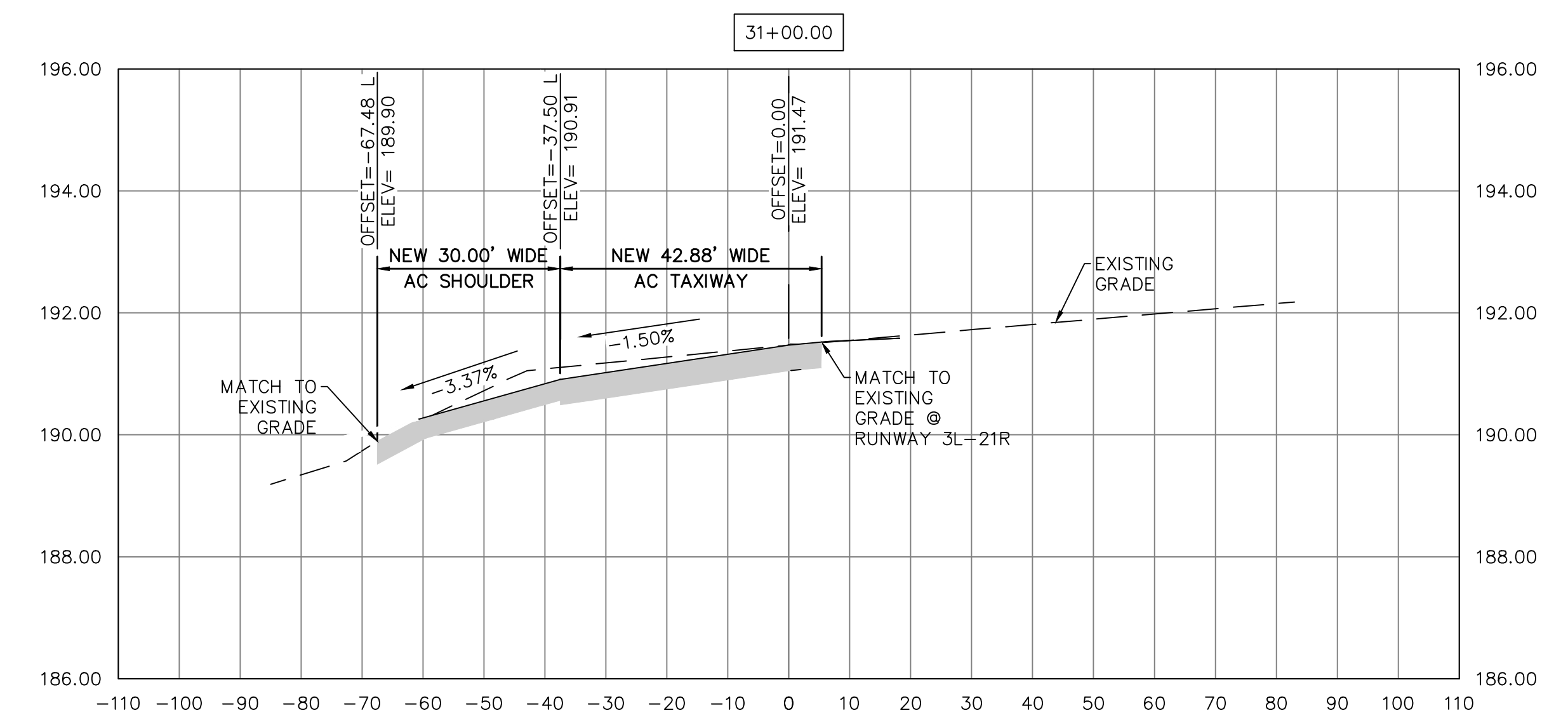
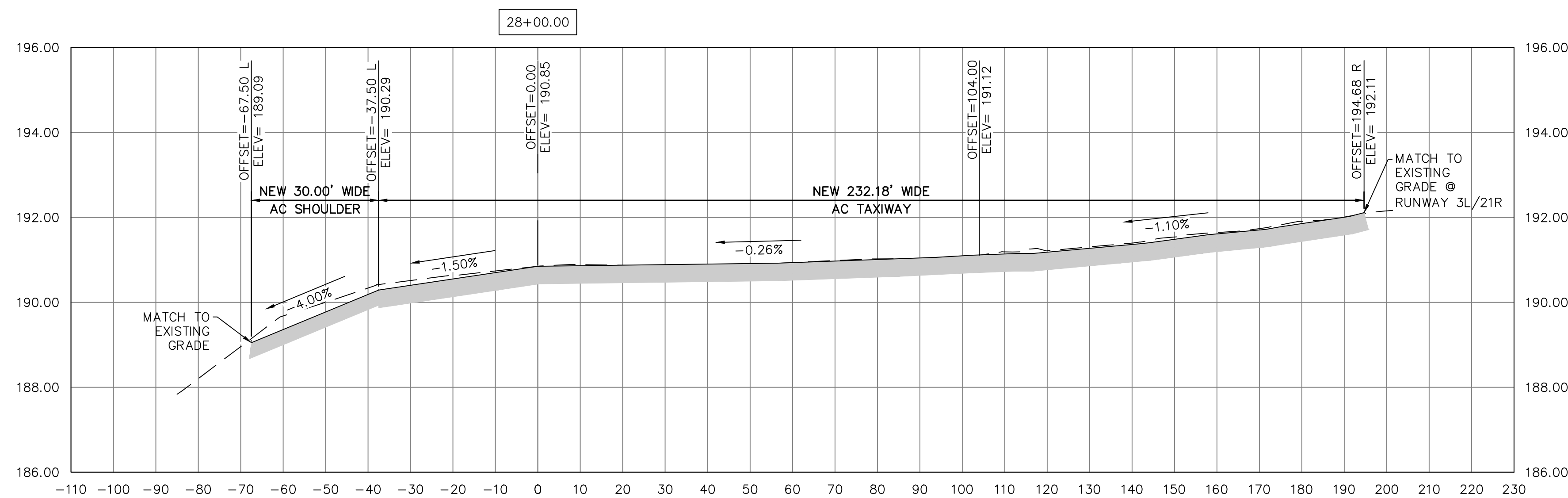
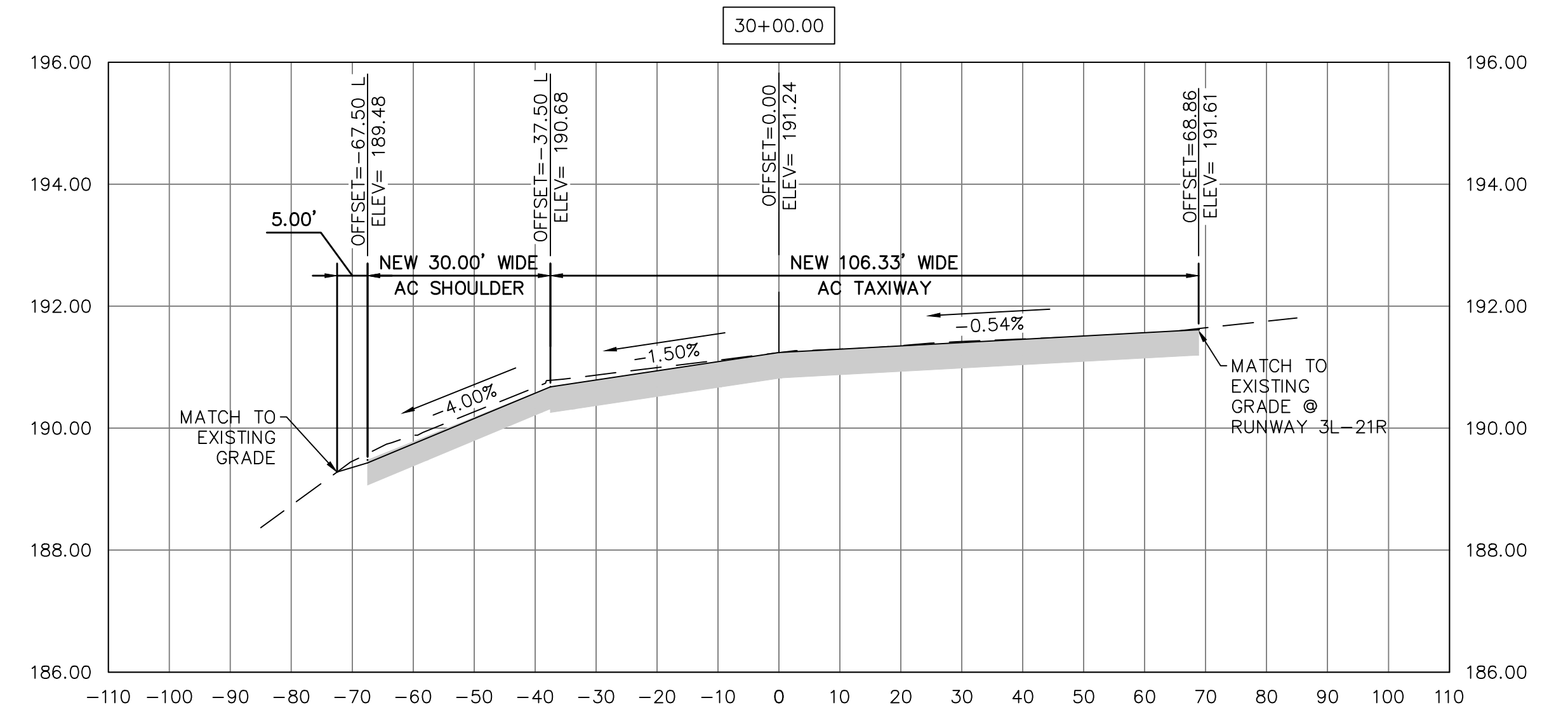
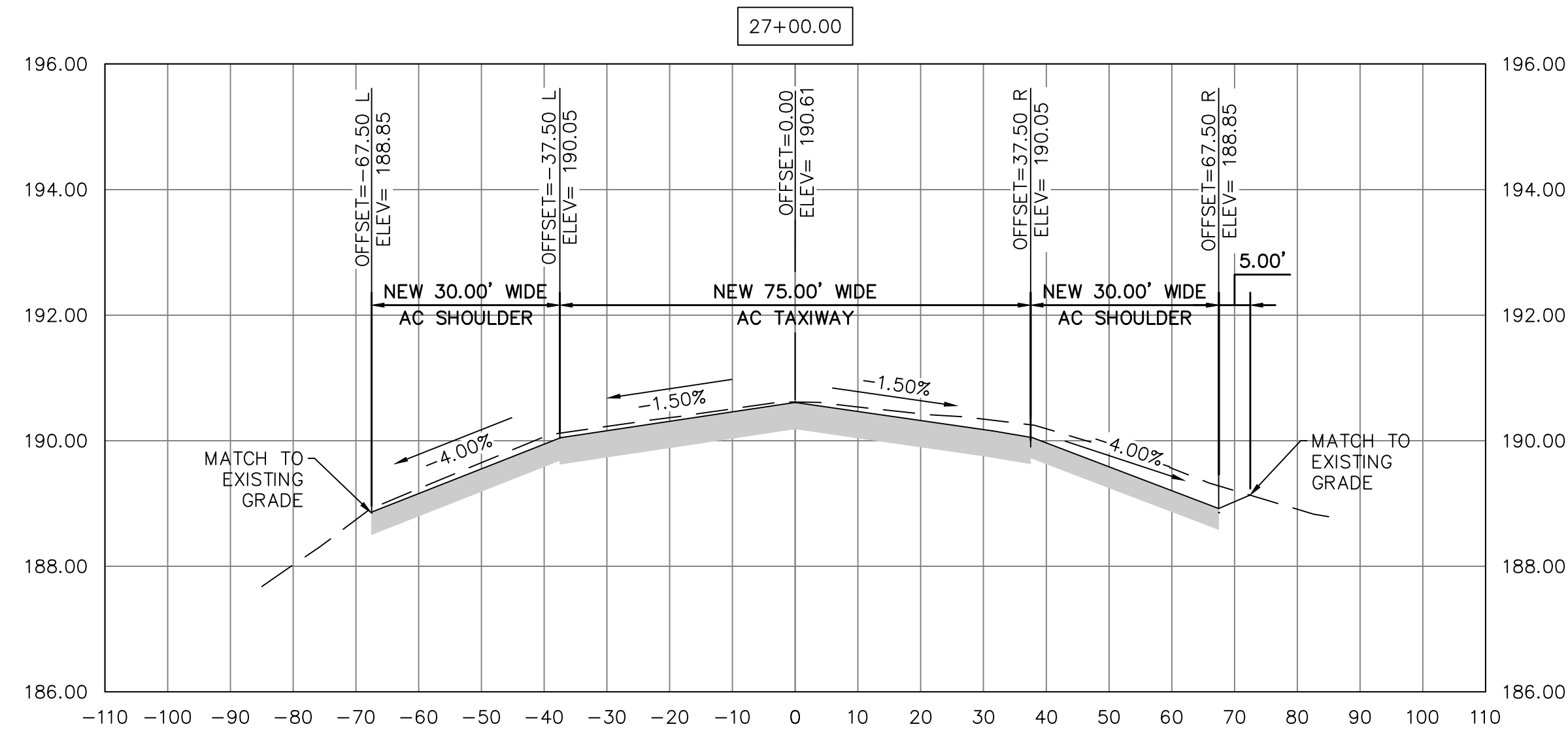
HORIZ: 1" = 20'
VERT: 1" = 2'



TAXIWAY F1 REHABILITATION	
CROSS SECTIONS	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 20 OF 47	C207

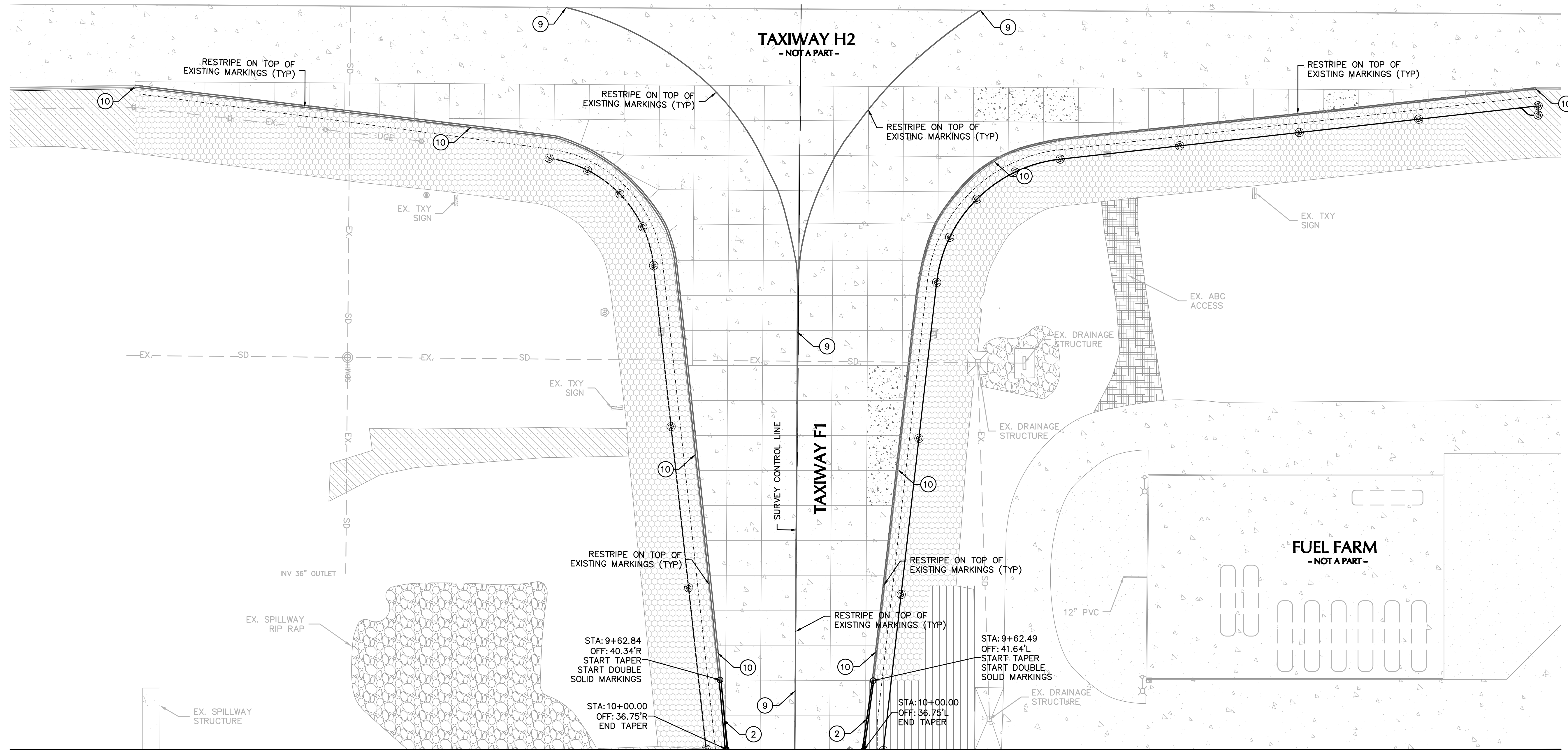
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N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%-dwg



TAXIWAY F1 REHABILITATION	
CROSS SECTIONS	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 21 OF 47	C208

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER, WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.



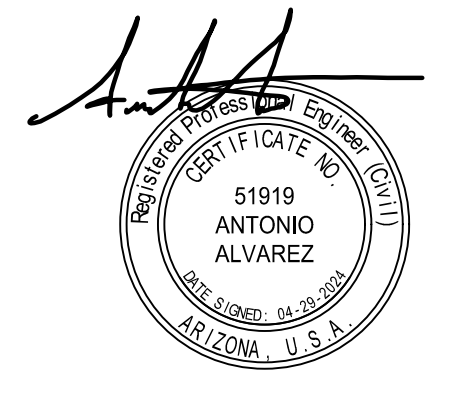
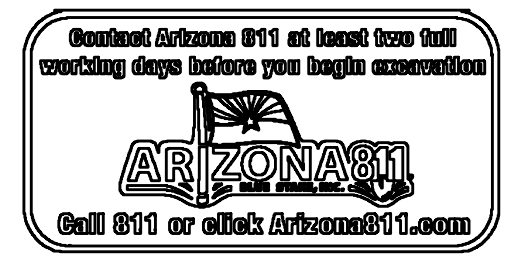
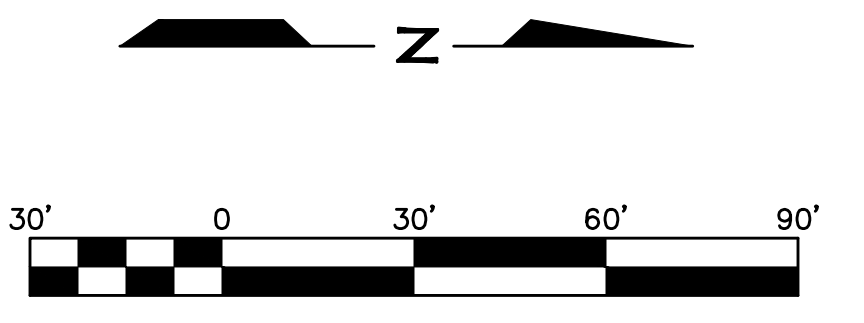
MATCH LINE - STA 10+00
SEE SHEET C-302

MARKINGS SCHEDULE OF WORK

- ① INSTALL 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING SEE DETAIL- **D** **C403**
- ② INSTALL DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING SEE DETAIL- **A** **C403**
- ③ INSTALL DOUBLE 6"-WIDE SOLID YELLOW DASHED TAXIWAY EDGE PAVEMENT MARKINGS SEE DETAIL- **A** **C403**
- ④ INSTALL ENHANCED RUNWAY HOLD POSITION MARKING AND ENHANCED TAXIWAY CENTERLINE MARKING. SEE DETAIL- **B** **C403**
- ⑤ INSTALL SURFACE PAINTED HOLDING POSITION SIGN SEE DETAIL- **J** **C403**
- ⑥ INSTALL TAXIWAY-RUNWAY LEAD IN MARKING SEE DETAIL- **C** **C403**
- ⑦ INSTALL 6"-WIDE SOLID WHITE EDGE PAVEMENT MARKING. SEE DETAIL- **F** **C403**
- ⑧ INSTALL 3'-WIDE 25'-LONG SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKINGS SEE DETAIL- **E** **C403**
- ⑨ INSTALL ENHANCED 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING SEE DETAIL- **H** **C403**
- ⑩ INSTALL ENHANCED DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING SEE DETAIL- **I** **C403**
- ⑪ INSTALL 6"-WIDE SOLID YELLOW TAXILANE CENTERLINE PAVEMENT MARKING. SEE DETAIL- **G** **C403**

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OR RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OR RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



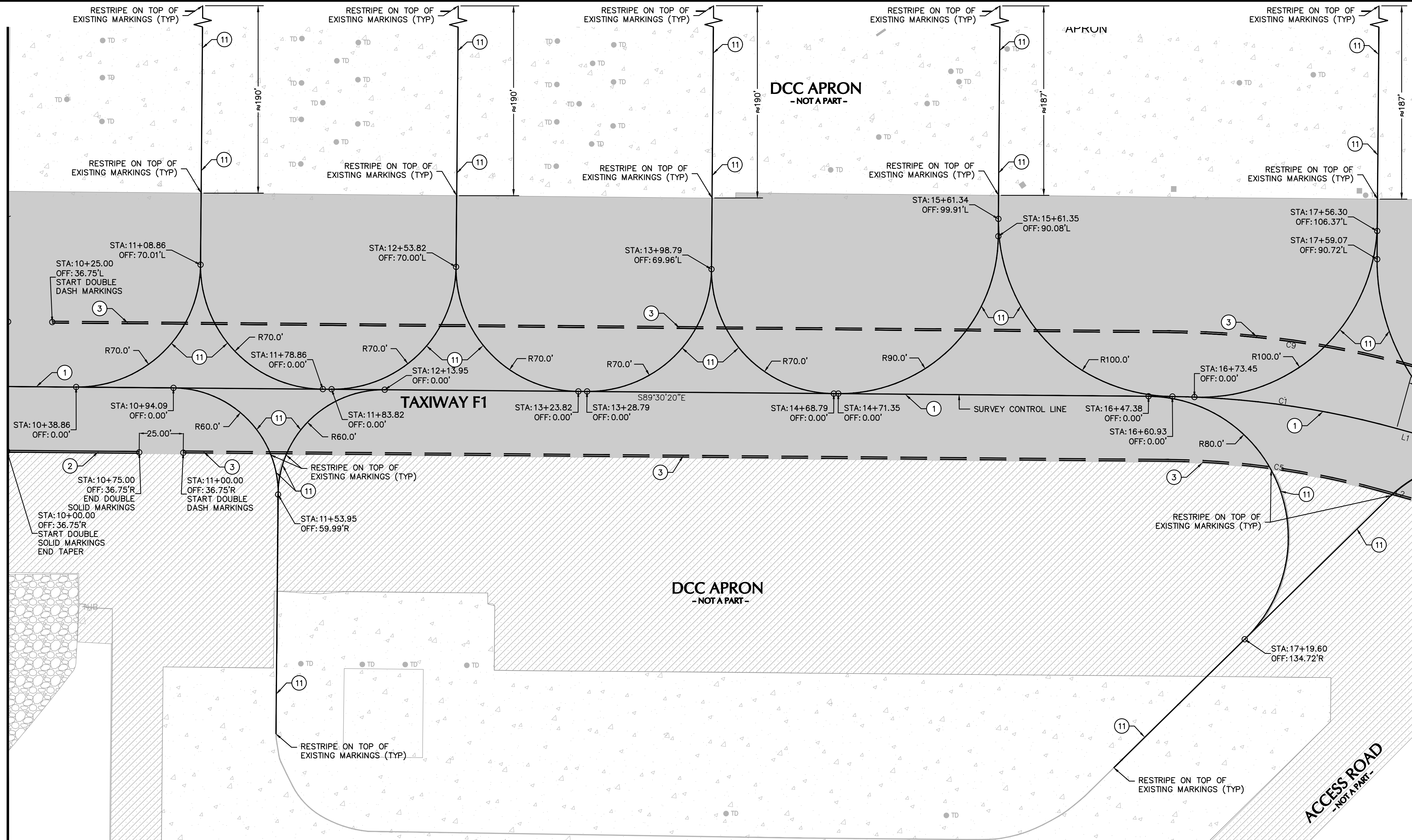
TAXIWAY F1 REHABILITATION	
MARKINGS PLAN	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 22 OF 47	C301

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%².dwg

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MATCH LINE - STA 10+00
SEE SHEET C-301

MATCH LINE - STA 18+00
SEE SHEET C-303

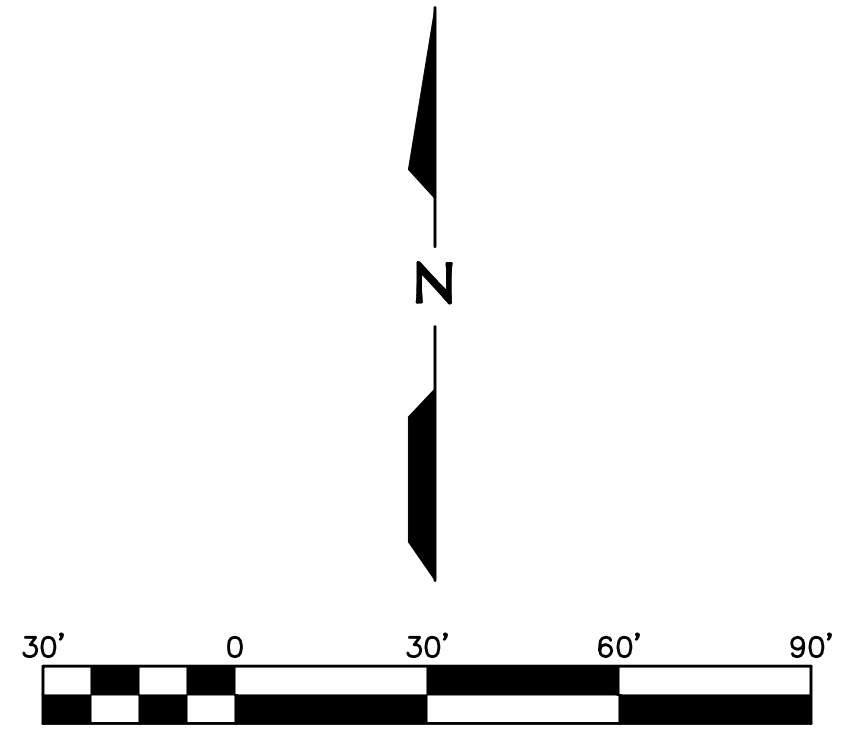
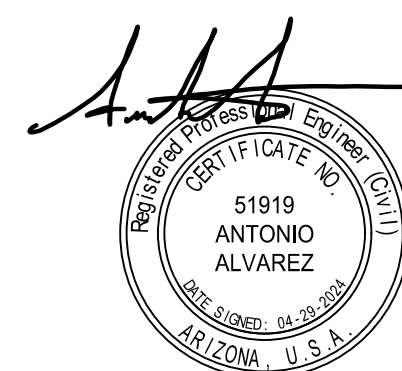


MARKINGS SCHEDULE OF WORK

- ① INSTALL 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING SEE DETAIL - **D** C403
- ② INSTALL DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING SEE DETAIL - **A** C403
- ③ INSTALL DOUBLE 6"-WIDE SOLID YELLOW DASHED TAXIWAY EDGE PAVEMENT MARKINGS SEE DETAIL - **A** C403
- ④ INSTALL ENHANCED RUNWAY HOLD POSITION MARKING AND ENHANCED TAXIWAY CENTERLINE MARKING SEE DETAIL - **B** C403
- ⑤ INSTALL SURFACE PAINTED HOLDING POSITION SIGN SEE DETAIL - **J** C403
- ⑥ INSTALL TAXIWAY-RUNWAY LEAD IN MARKING SEE DETAIL - **C** C403
- ⑦ INSTALL 6"-WIDE SOLID WHITE EDGE PAVEMENT MARKING SEE DETAIL - **F** C403
- ⑧ INSTALL 3"-WIDE 25"-LONG SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKINGS SEE DETAIL - **E** C403
- ⑨ INSTALL ENHANCED 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING SEE DETAIL - **H** C403
- ⑩ INSTALL ENHANCED DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING SEE DETAIL - **I** C403
- ⑪ INSTALL 6"-WIDE SOLID YELLOW TAXILANE CENTERLINE PAVEMENT MARKING SEE DETAIL - **G** C403

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



TAXIWAY F1 REHABILITATION

MARKINGS PLAN

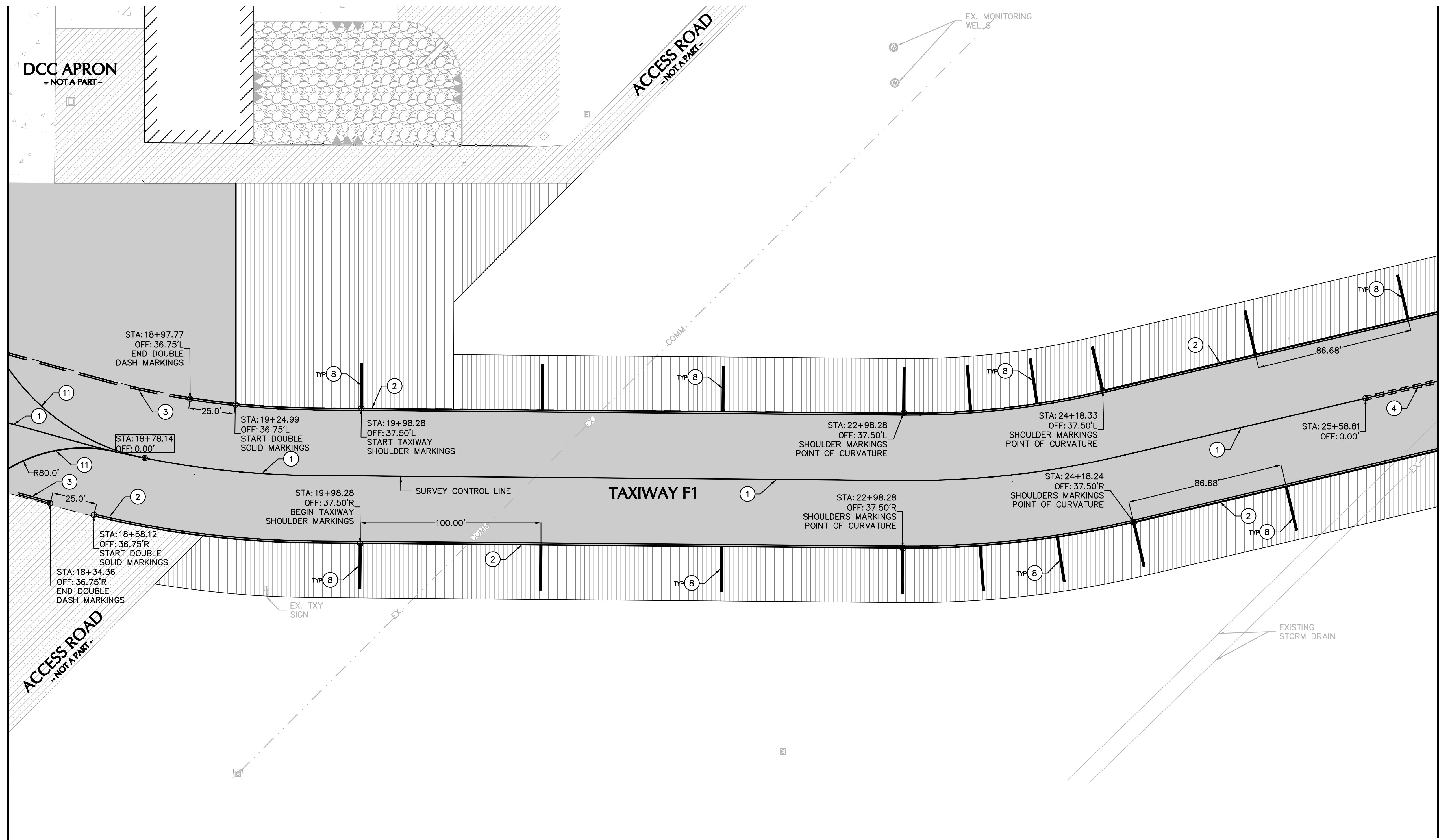
NICKLAUS
ENGINEERING, INC.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB No.: 023-0005
SHEET 23 OF 47

C302

MATCH LINE STA 18+00
SEE SHEET C-302

MATCH LINE STA 26+00
SEE SHEET C-304

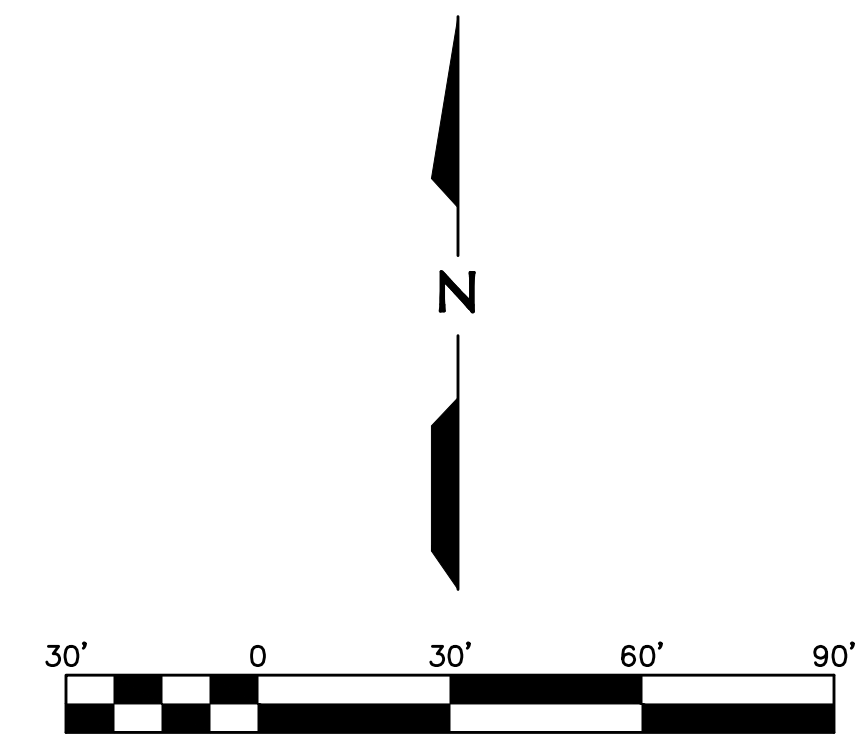
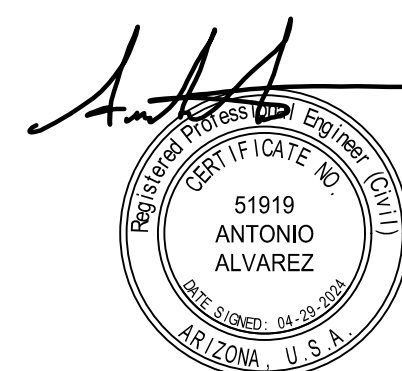


MARKINGS SCHEDULE OF WORK

- | | | | |
|----|--|-------------|-----------|
| 1 | INSTALL 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING | SEE DETAIL- | D
C403 |
| 2 | INSTALL DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING | SEE DETAIL- | A
C403 |
| 3 | INSTALL DOUBLE 6"-WIDE SOLID YELLOW DASHED TAXIWAY EDGE PAVEMENT MARKINGS | SEE DETAIL- | A
C403 |
| 4 | INSTALL ENHANCED RUNWAY HOLD POSITION MARKING AND ENHANCED TAXIWAY CENTERLINE MARKING. | SEE DETAIL- | B
C403 |
| 5 | INSTALL SURFACE PAINTED HOLDING POSITION SIGN | SEE DETAIL- | J
C403 |
| 6 | INSTALL TAXIWAY-RUNWAY LEAD IN MARKING | SEE DETAIL- | C
C403 |
| 7 | INSTALL 6"-WIDE SOLID WHITE EDGE PAVEMENT MARKING. | SEE DETAIL- | F
C403 |
| 8 | INSTALL 3"-WIDE 25"-LONG SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKINGS | SEE DETAIL- | E
C403 |
| 9 | INSTALL ENHANCED 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING | SEE DETAIL- | H
C403 |
| 10 | INSTALL ENHANCED DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING | SEE DETAIL- | I
C403 |
| 11 | INSTALL 6"-WIDE SOLID YELLOW TAXILANE CENTERLINE PAVEMENT MARKING. | SEE DETAIL- | G
C403 |

UTILITY WARNING

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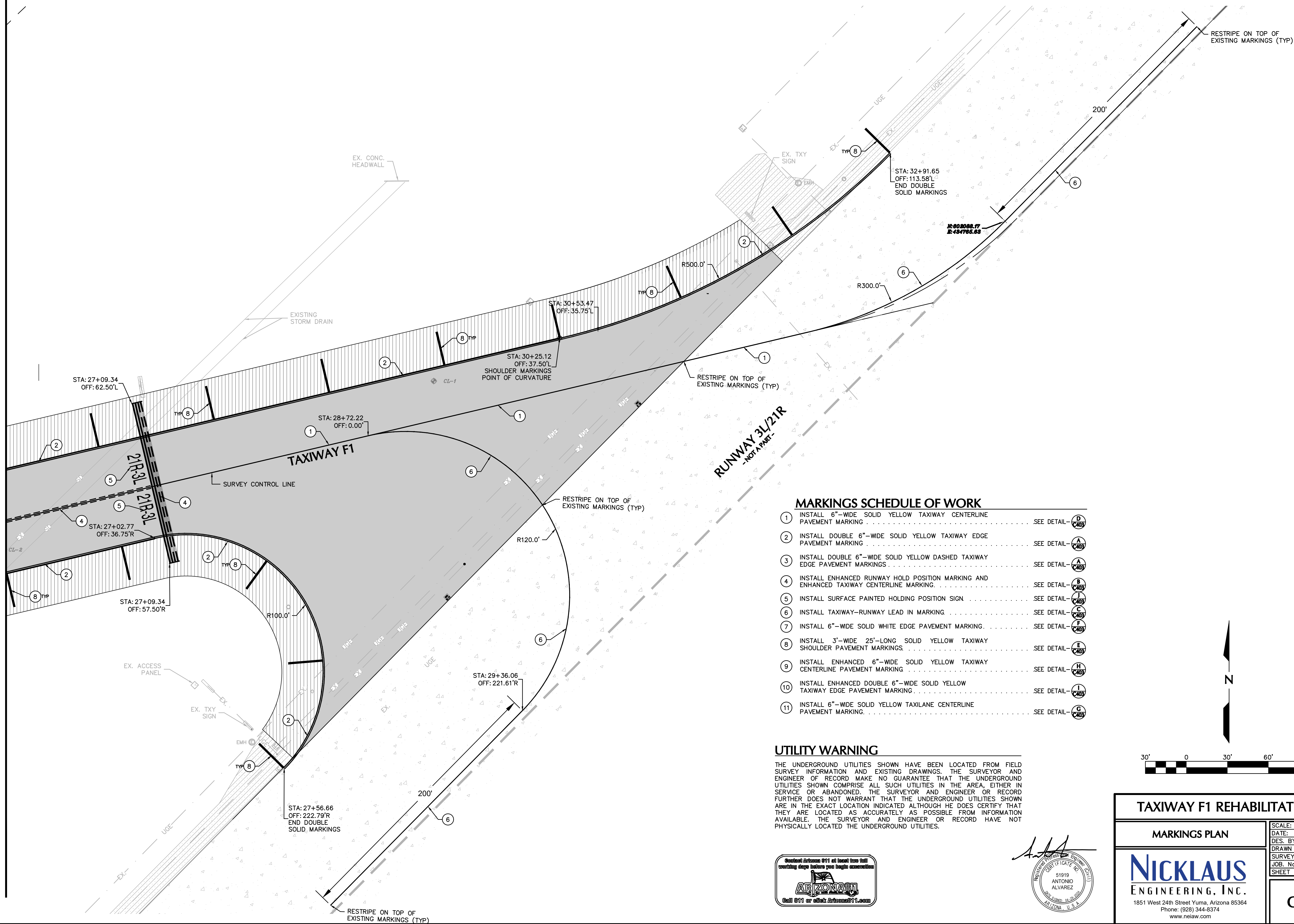
TAXIWAY F1 REHABILITATION	
MARKINGS PLAN	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 24 OF 47	C303

N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100% Eng

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N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%².dwg

MATCH LINE - STA 26+00
SEE SHEET C-303

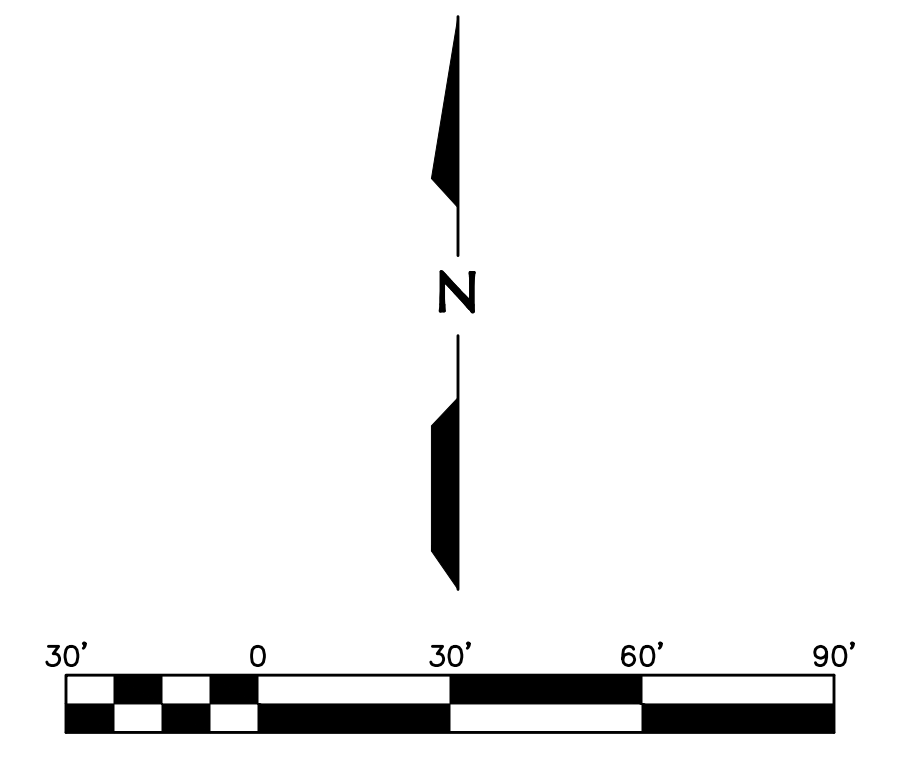
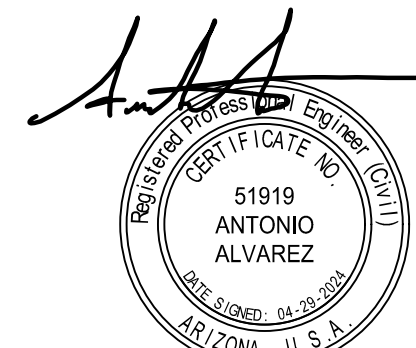
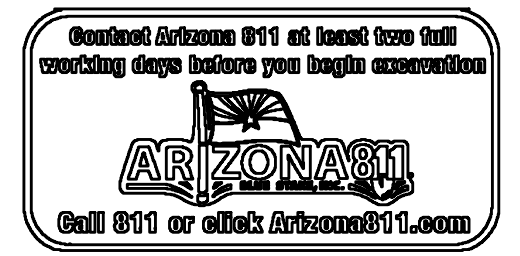


MARKINGS SCHEDULE OF WORK

- 1 INSTALL 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING SEE DETAIL - **D** **C403**
- 2 INSTALL DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING SEE DETAIL - **A** **C403**
- 3 INSTALL DOUBLE 6"-WIDE SOLID YELLOW DASHED TAXIWAY EDGE PAVEMENT MARKINGS SEE DETAIL - **A** **C403**
- 4 INSTALL ENHANCED RUNWAY HOLD POSITION MARKING AND ENHANCED TAXIWAY CENTERLINE MARKING. SEE DETAIL - **B** **C403**
- 5 INSTALL SURFACE PAINTED HOLDING POSITION SIGN SEE DETAIL - **J** **C403**
- 6 INSTALL TAXIWAY-RUNWAY LEAD IN MARKING SEE DETAIL - **C** **C403**
- 7 INSTALL 6"-WIDE SOLID WHITE EDGE PAVEMENT MARKING. SEE DETAIL - **F** **C403**
- 8 INSTALL 3'-WIDE 25'-LONG SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKINGS SEE DETAIL - **E** **C403**
- 9 INSTALL ENHANCED 6"-WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING SEE DETAIL - **H** **C403**
- 10 INSTALL ENHANCED DOUBLE 6"-WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING. SEE DETAIL - **I** **C403**
- 11 INSTALL 6"-WIDE SOLID YELLOW TAXILANE CENTERLINE PAVEMENT MARKING. SEE DETAIL - **G** **C403**

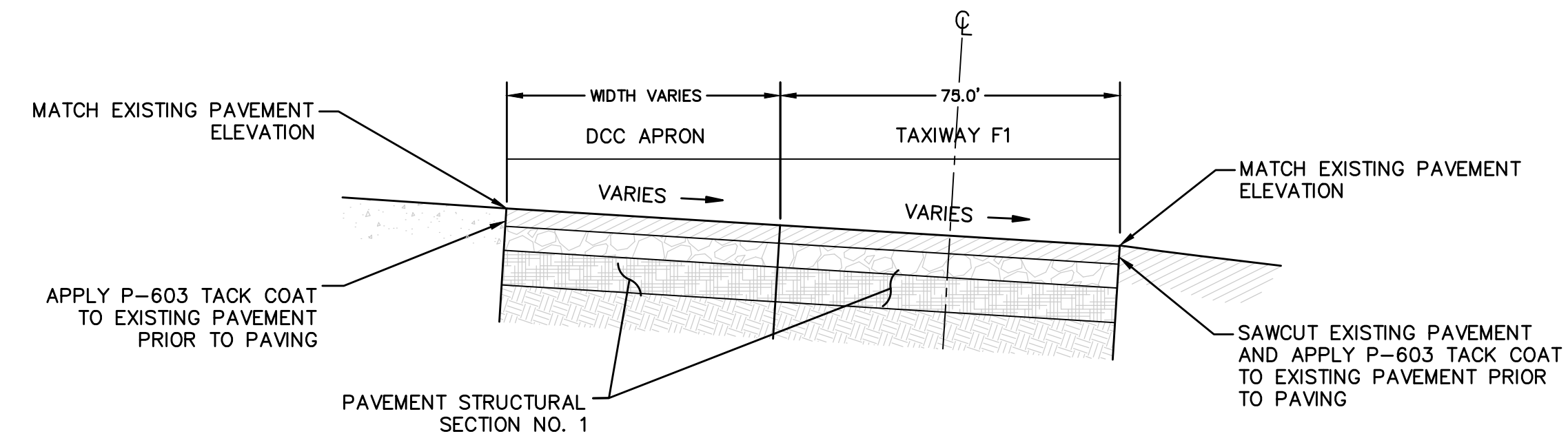
UTILITY WARNING

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TAXIWAY F1 REHABILITATION	
MARKINGS PLAN	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 25 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C304	

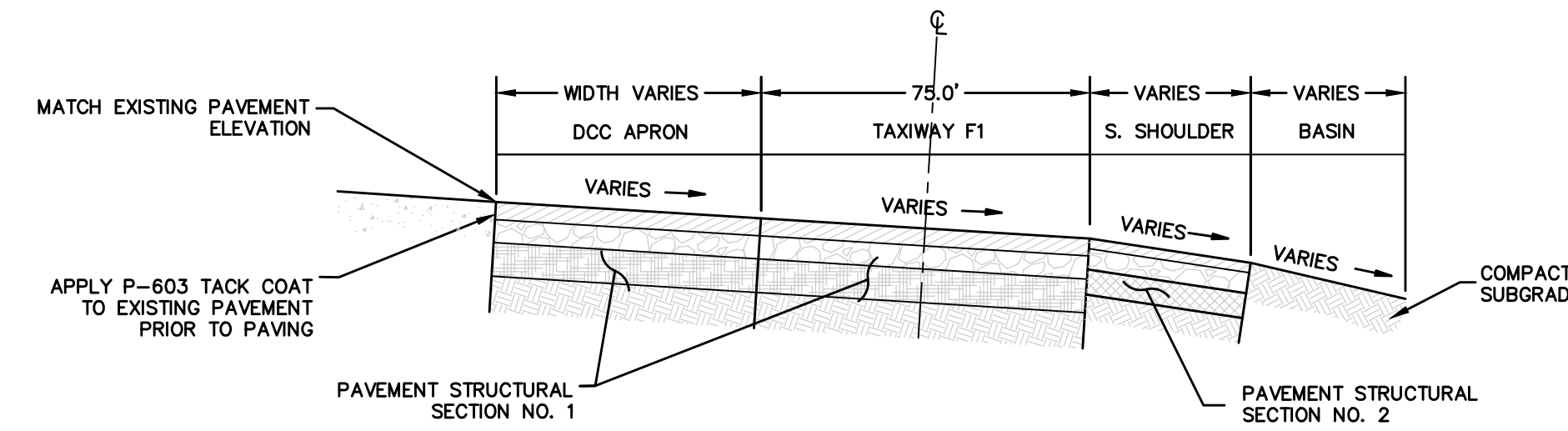
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TYPICAL TAXIWAY SECTION STA 10+00 TO 18+95.05

N.T.S. & GRADES PER PLAN

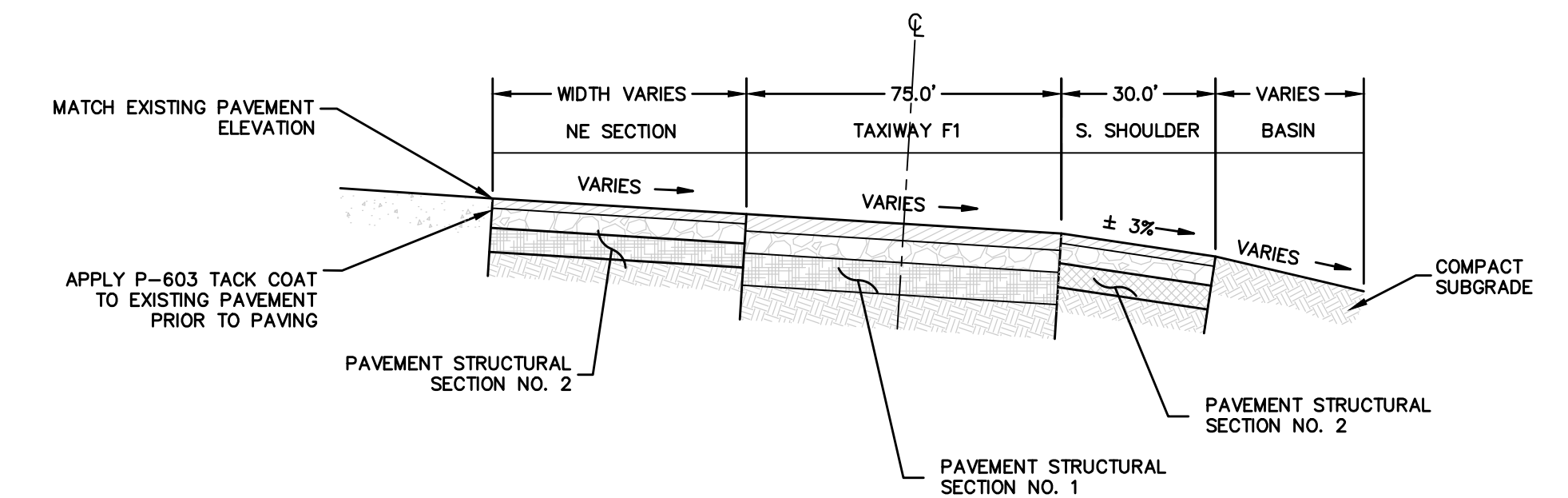
A
C401



TYPICAL TAXIWAY SECTION STA 18+95.05 TO 19+24.91

N.T.S. & GRADES PER PLAN

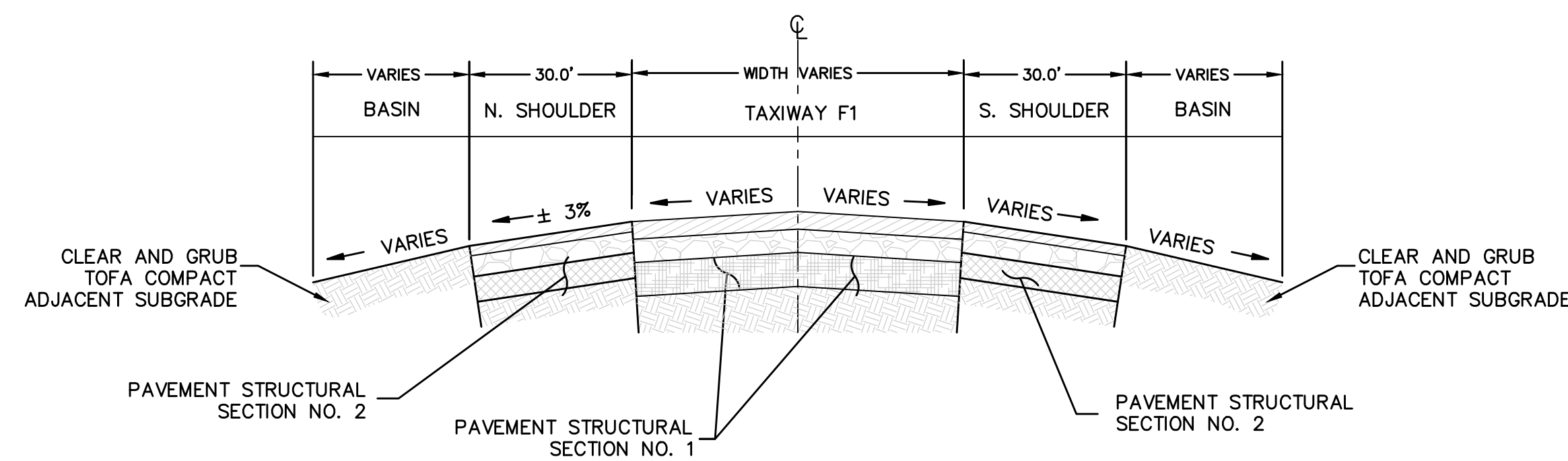
B
C401



TYPICAL TAXIWAY SECTION - STA 19+24.91 TO STA 19+17.07

N.T.S. & GRADES PER PLAN

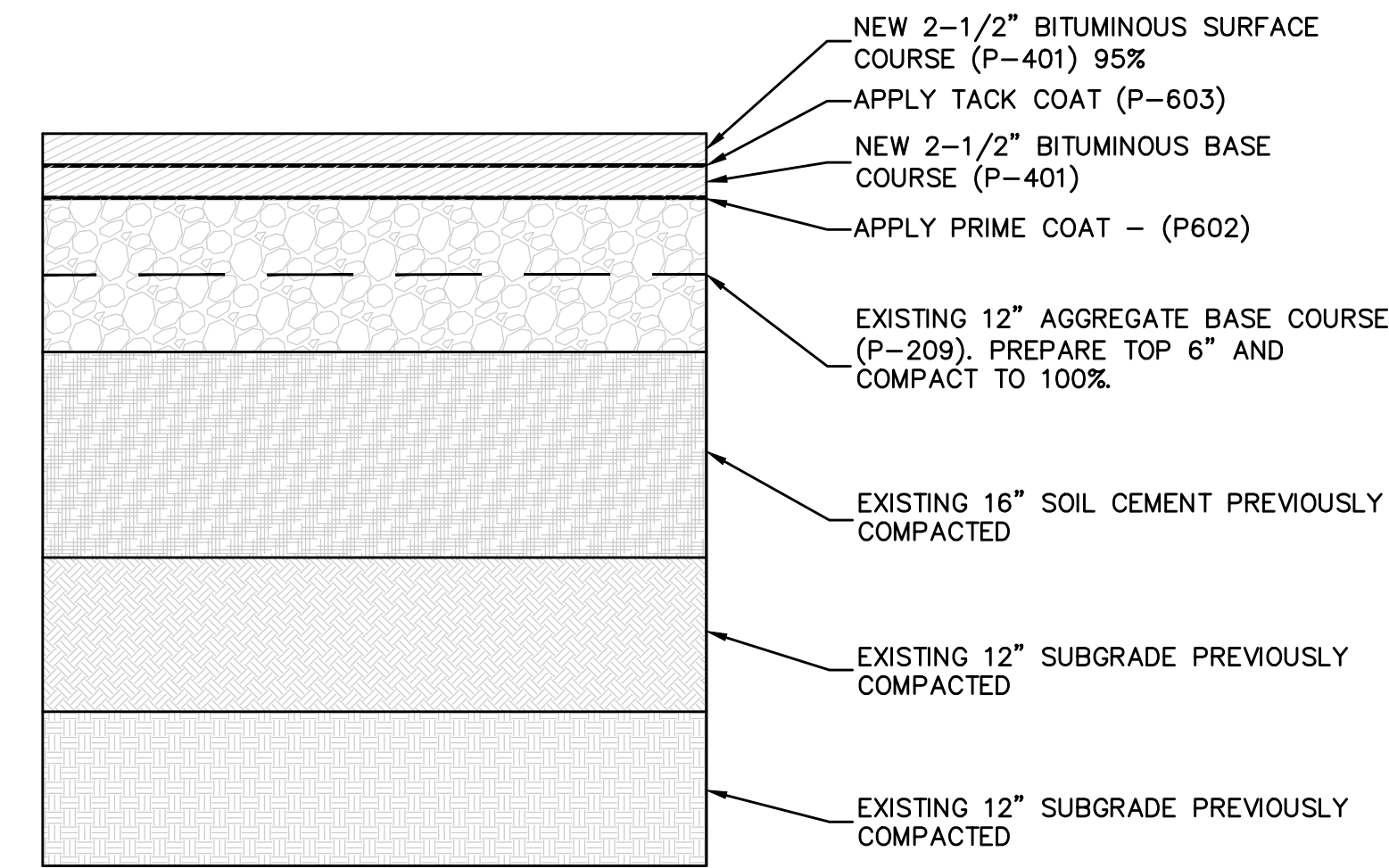
C
C401



TYPICAL TAXIWAY SECTION - STA 20+49.20 TO INTERSECTION W/ RWY 21R-3L

N.T.S. & GRADES PER PLAN

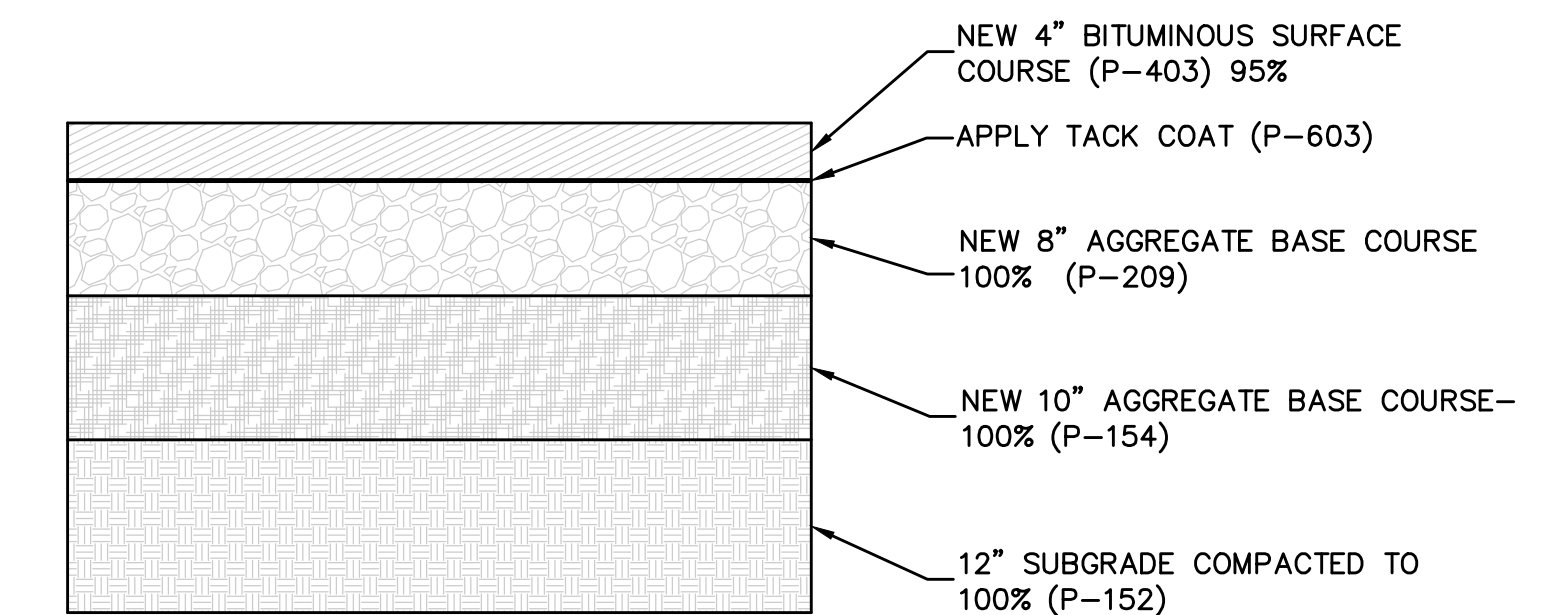
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PAVEMENT STRUCTURAL SECTION NO. 1 [TAXIWAY F1 & N. APRON]

NTS

E
C401



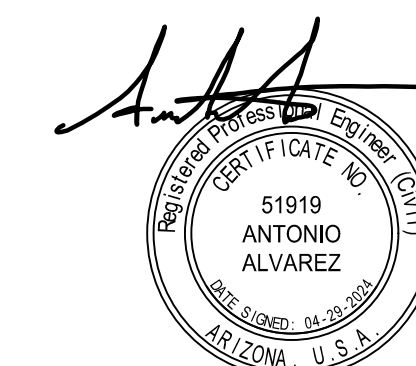
PAVEMENT STRUCTURAL SECTION NO. 2 [SHOULDERS, NW SECTION, & NE SECTION]

NTS

F
C401

UTILITY WARNING

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TAXIWAY F1 REHABILITATION

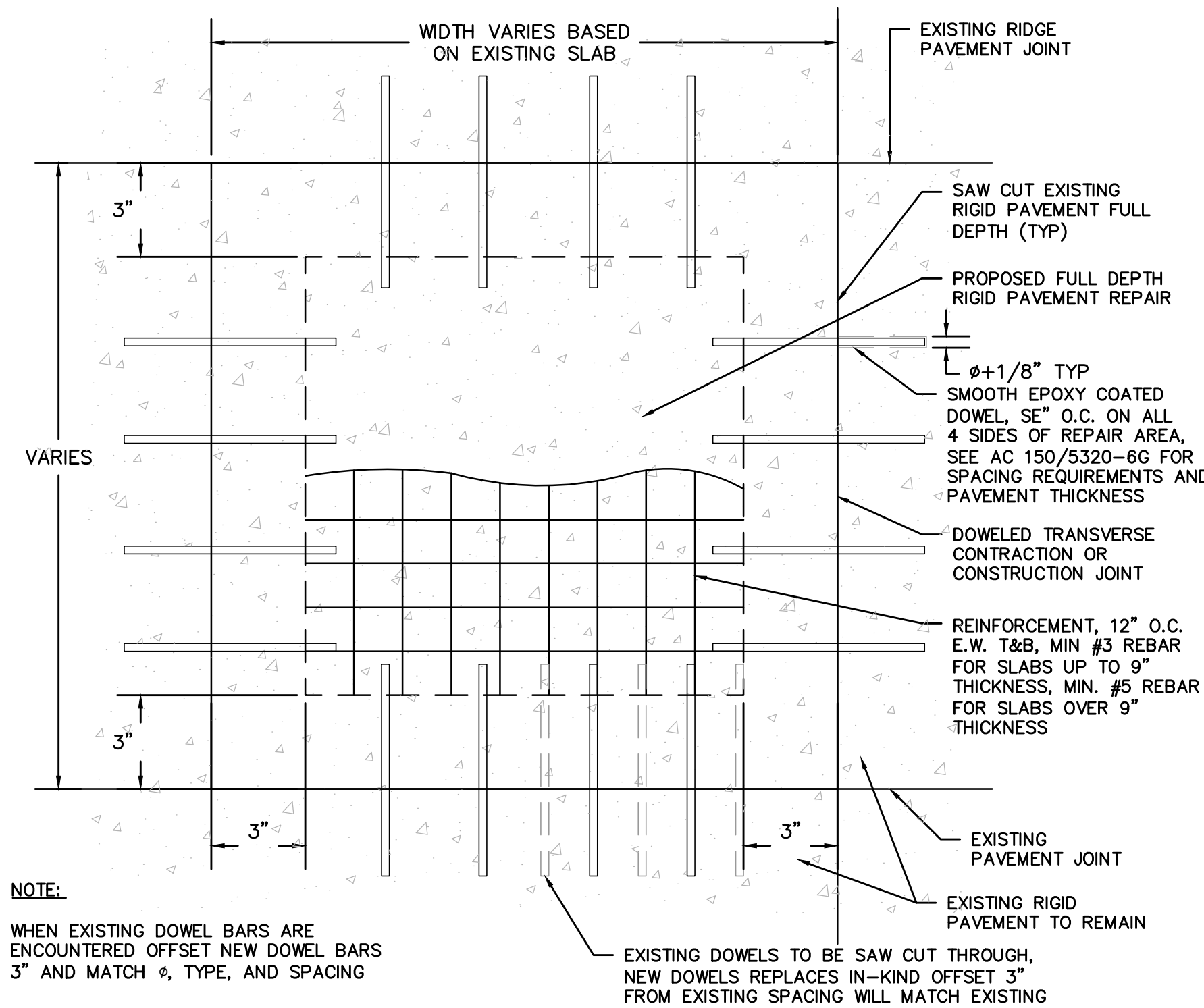
TYPICAL CROSS SECTIONS & PAVEMENT STRUCTURAL SECTIONS

NICKLAUS
ENGINEERING, INC.

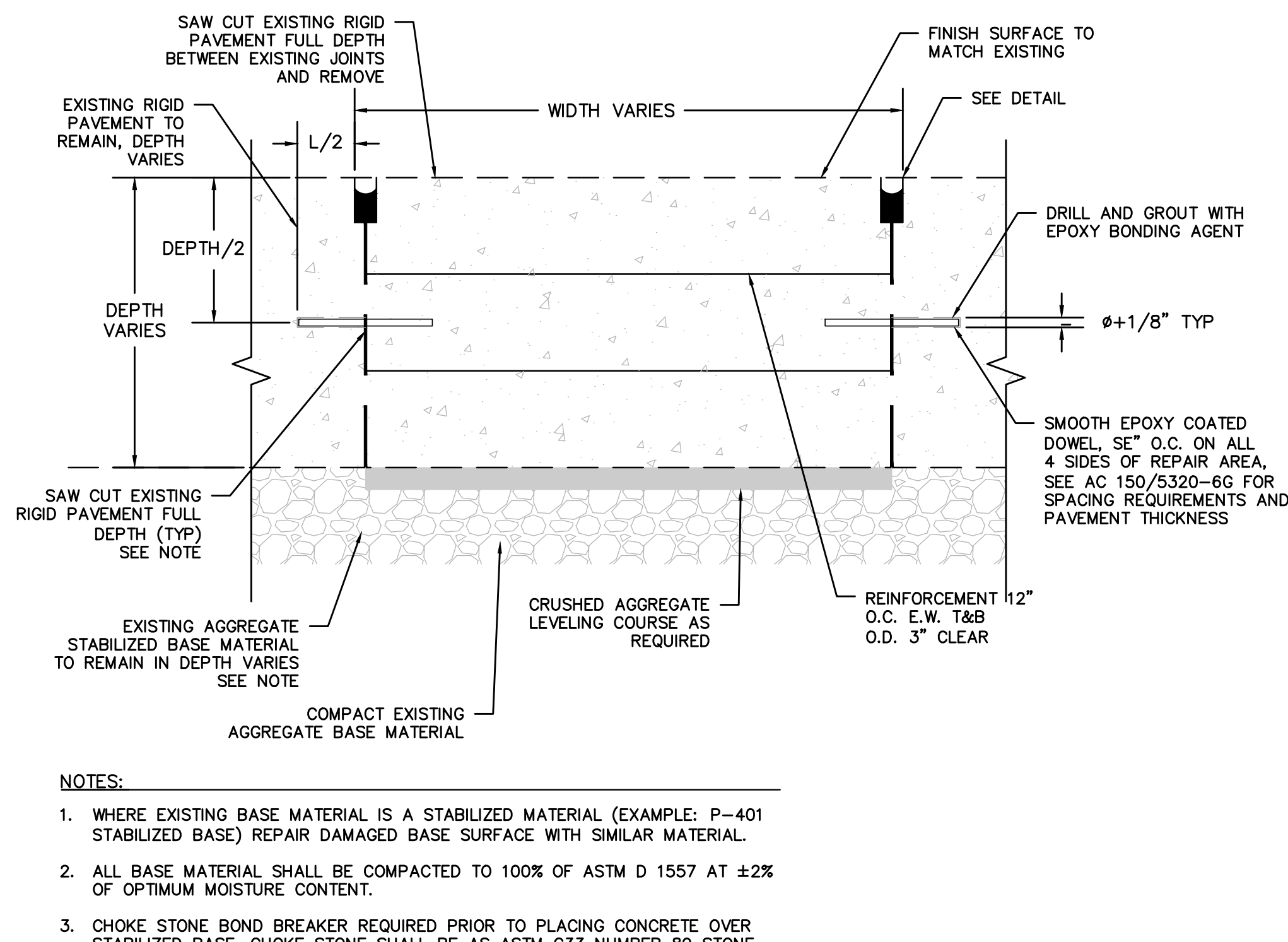
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: STAFF
DRAWN BY: JMC
SURVEYED BY: DSE
JOB. No.: 023-0005
SHEET 26 OF 47

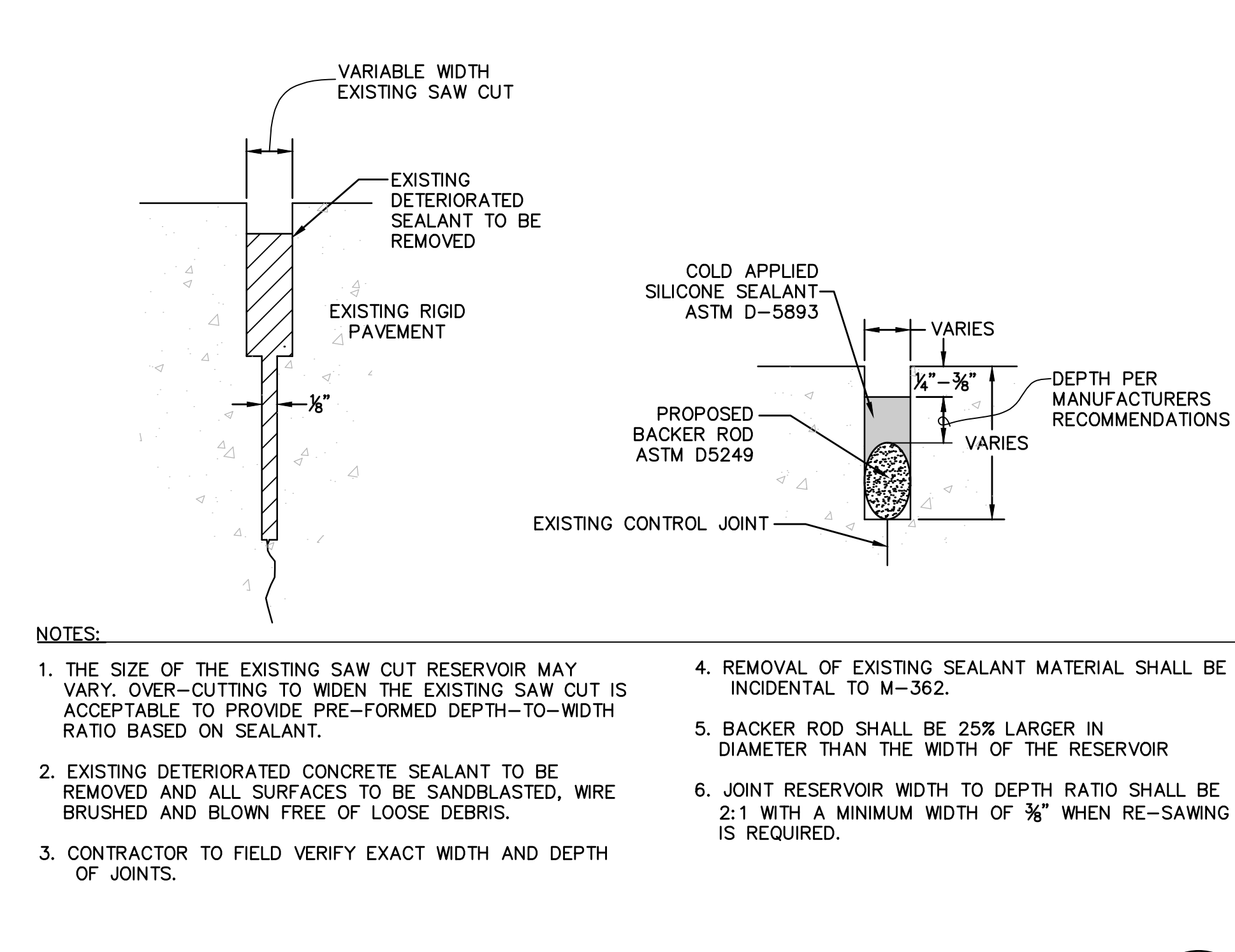
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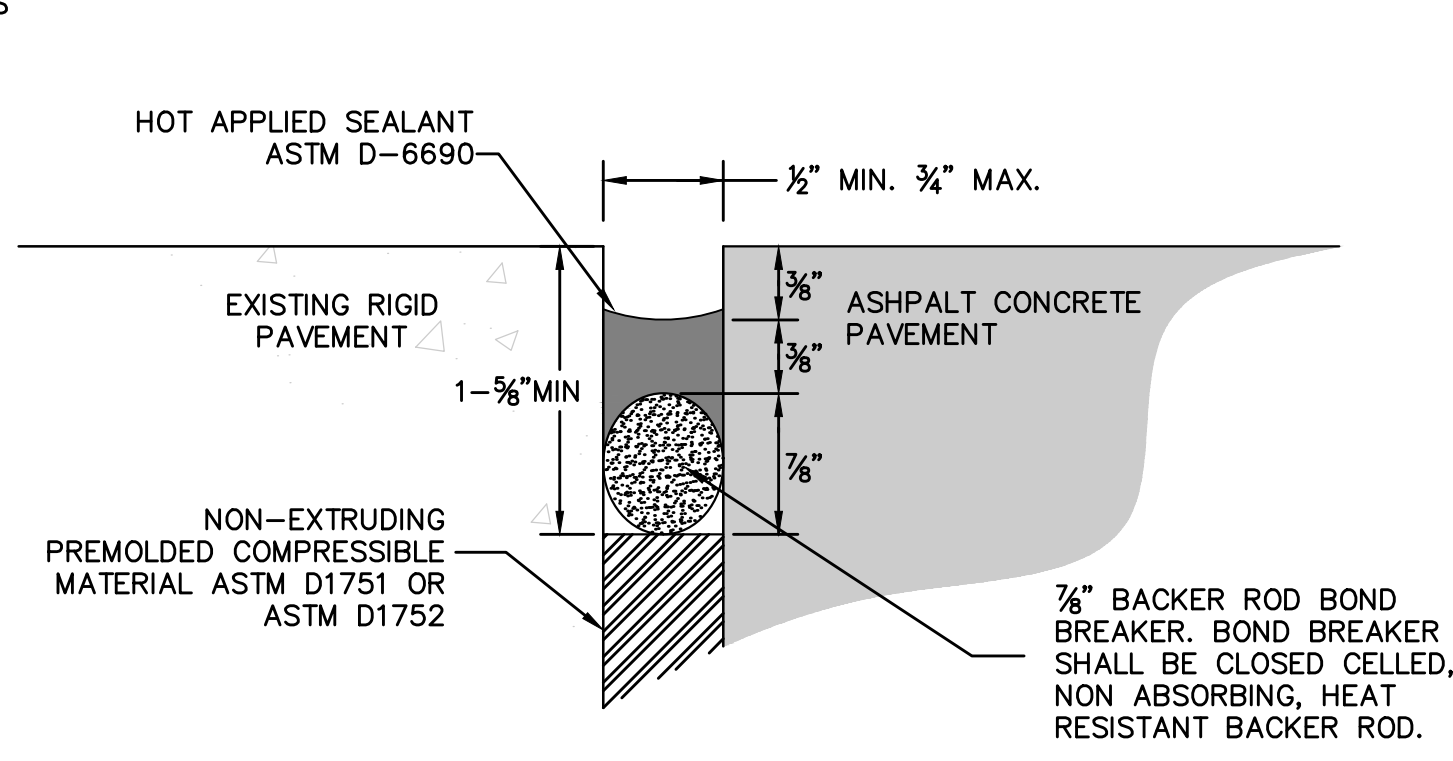
SLAB REPAIR DETAIL
NTS



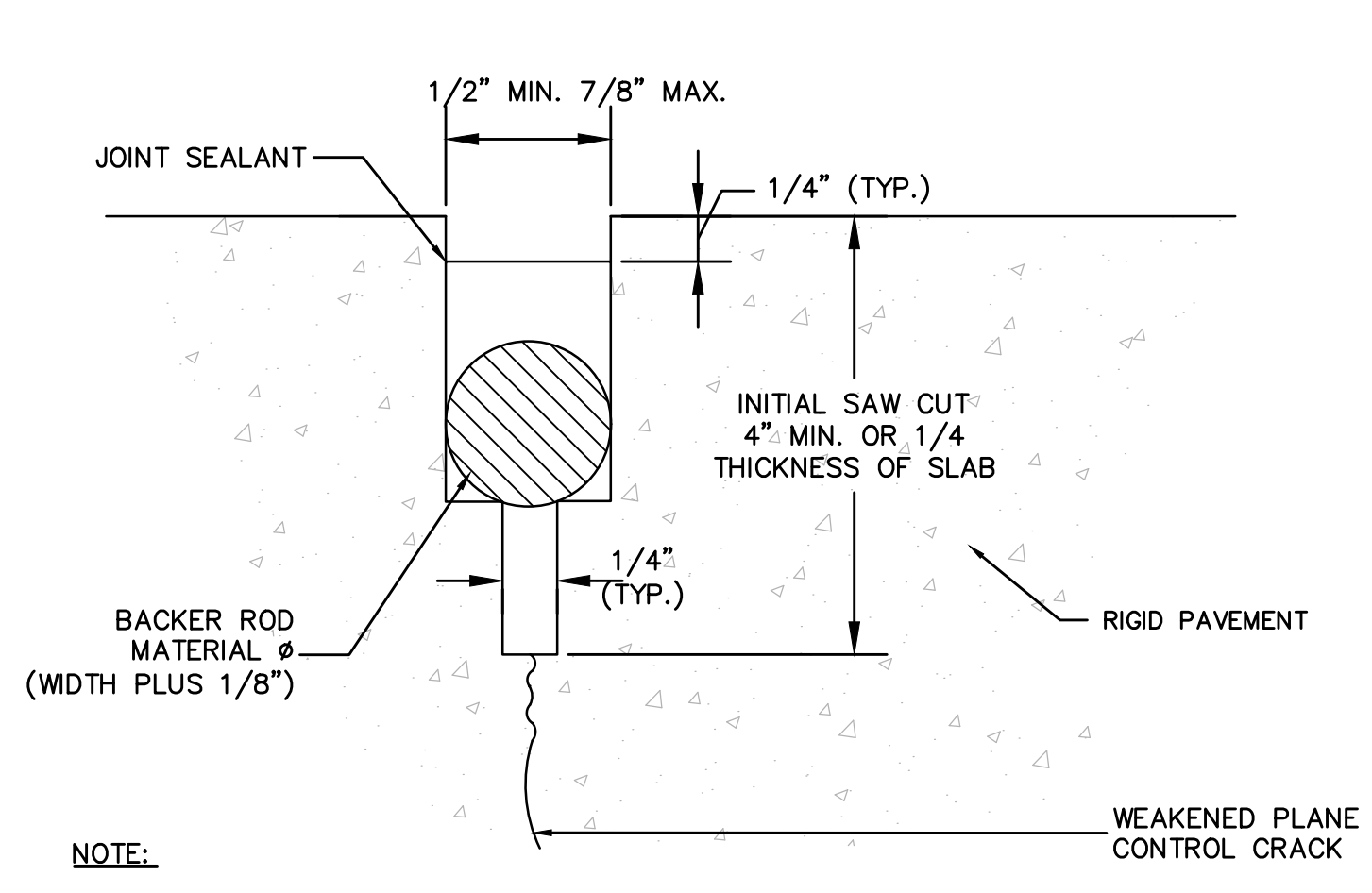
EXISTING CONDITION RESEAL / REPAIR OF SAW CUT JOINT DETAIL
NTS



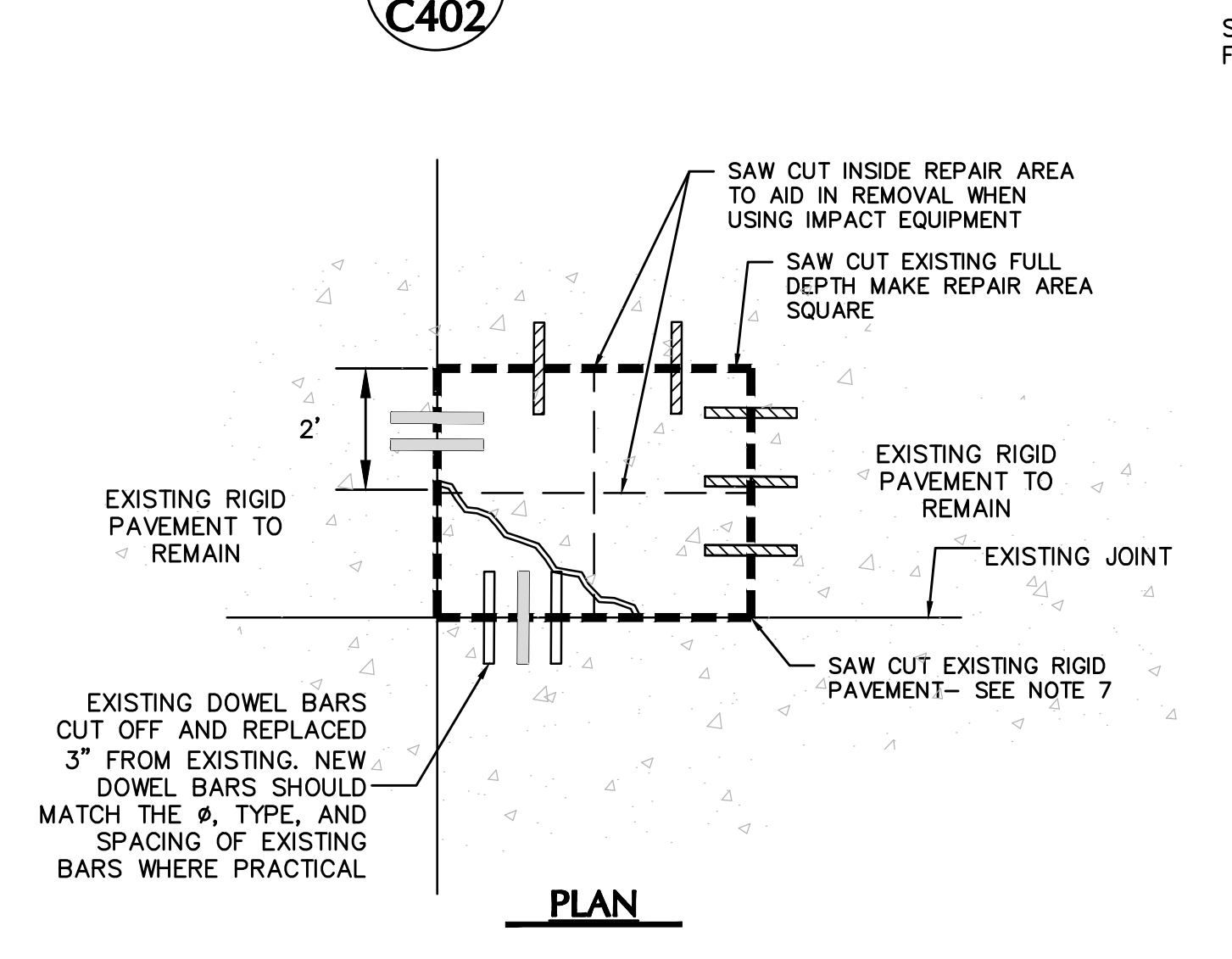
EXISTING CONDITION RESEAL / REPAIR OF SAW CUT JOINT DETAIL
NTS



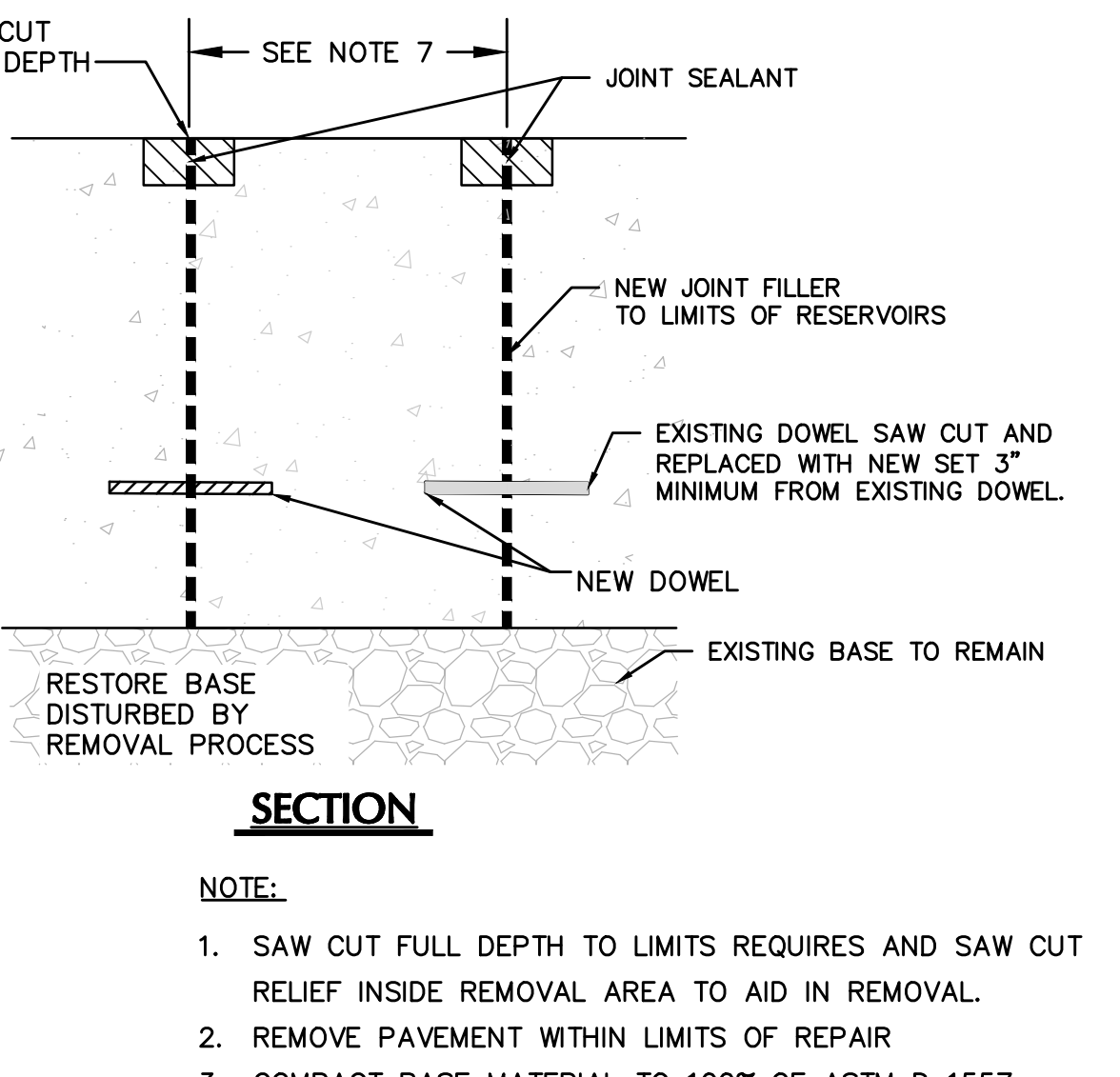
SAW AND SEAL JOINT DETAIL RIGID/FLEXIBLE PAVEMENT
NTS



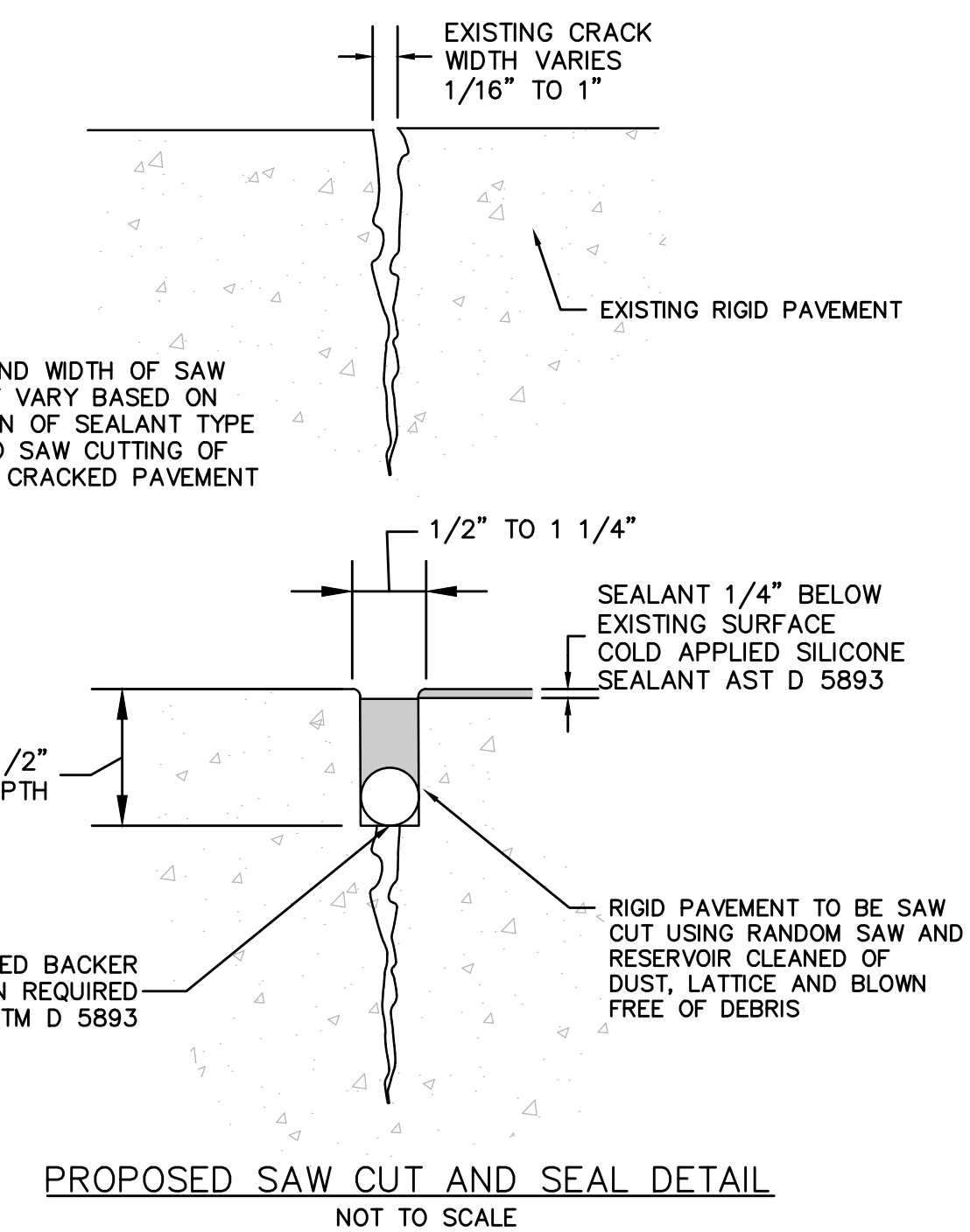
SAW CUT CONTRACTION JOINT DETAIL
NTS



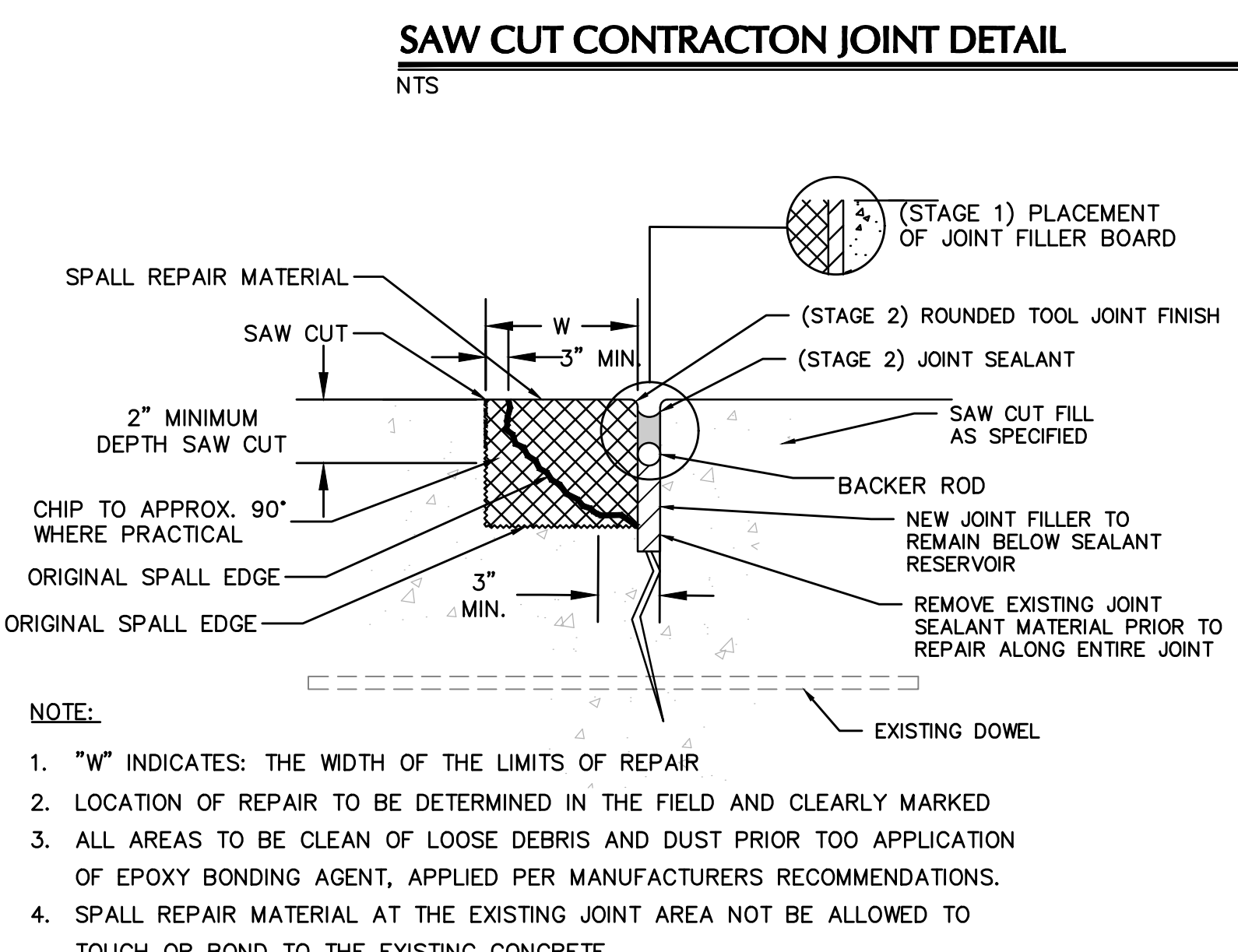
CORNER BREAK REPAIR DETAIL
NTS



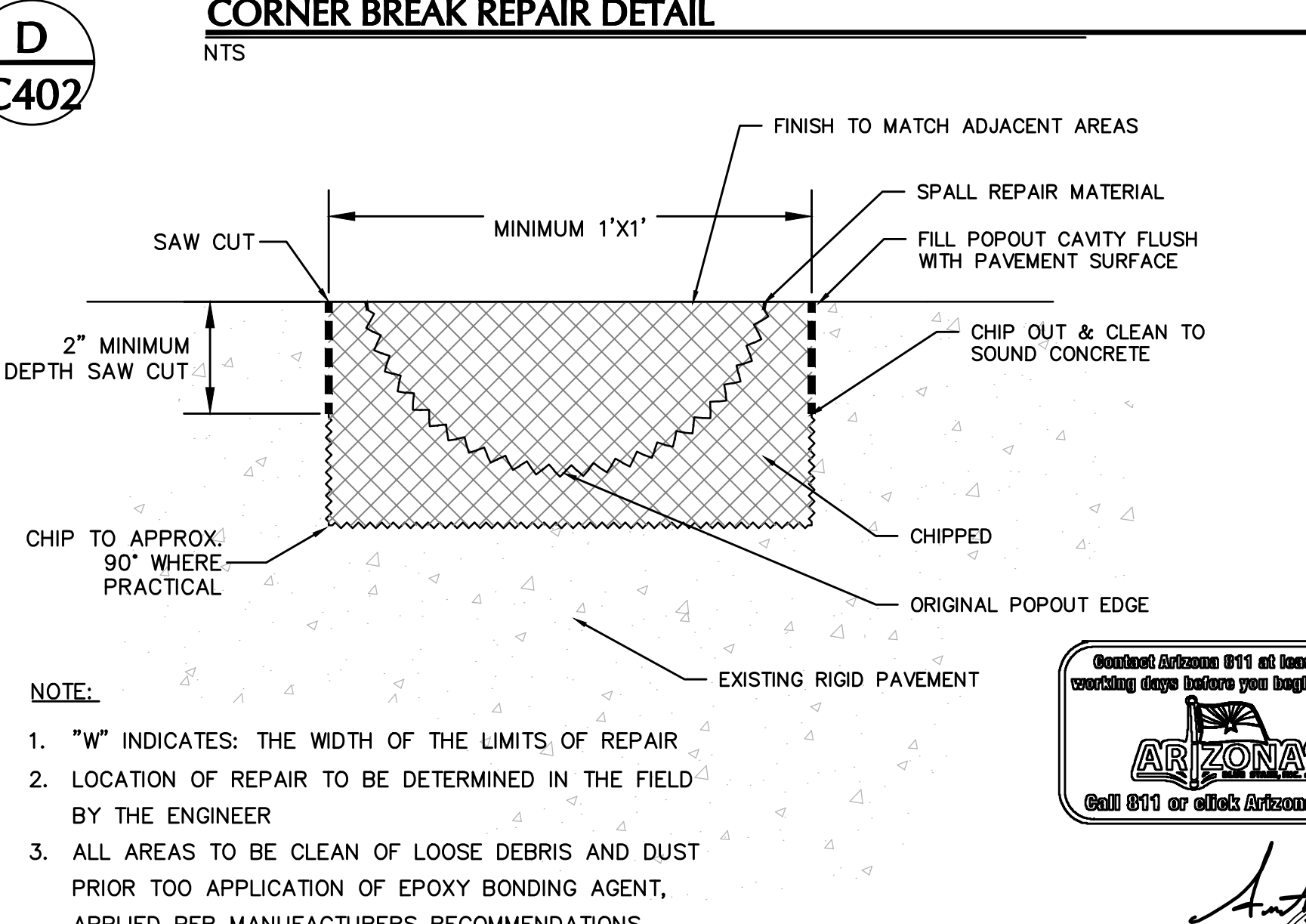
UTILITY WARNING
NTS



EXISTING CRACK REPAIR DETAIL
NTS



JOINT SPALL REPAIR DETAIL
NTS



POPOUT SPALL REPAIR DETAIL
NTS

TAXIWAY F1 REHABILITATION

RIGID PAVEMENT REHABILITATION DETAILS

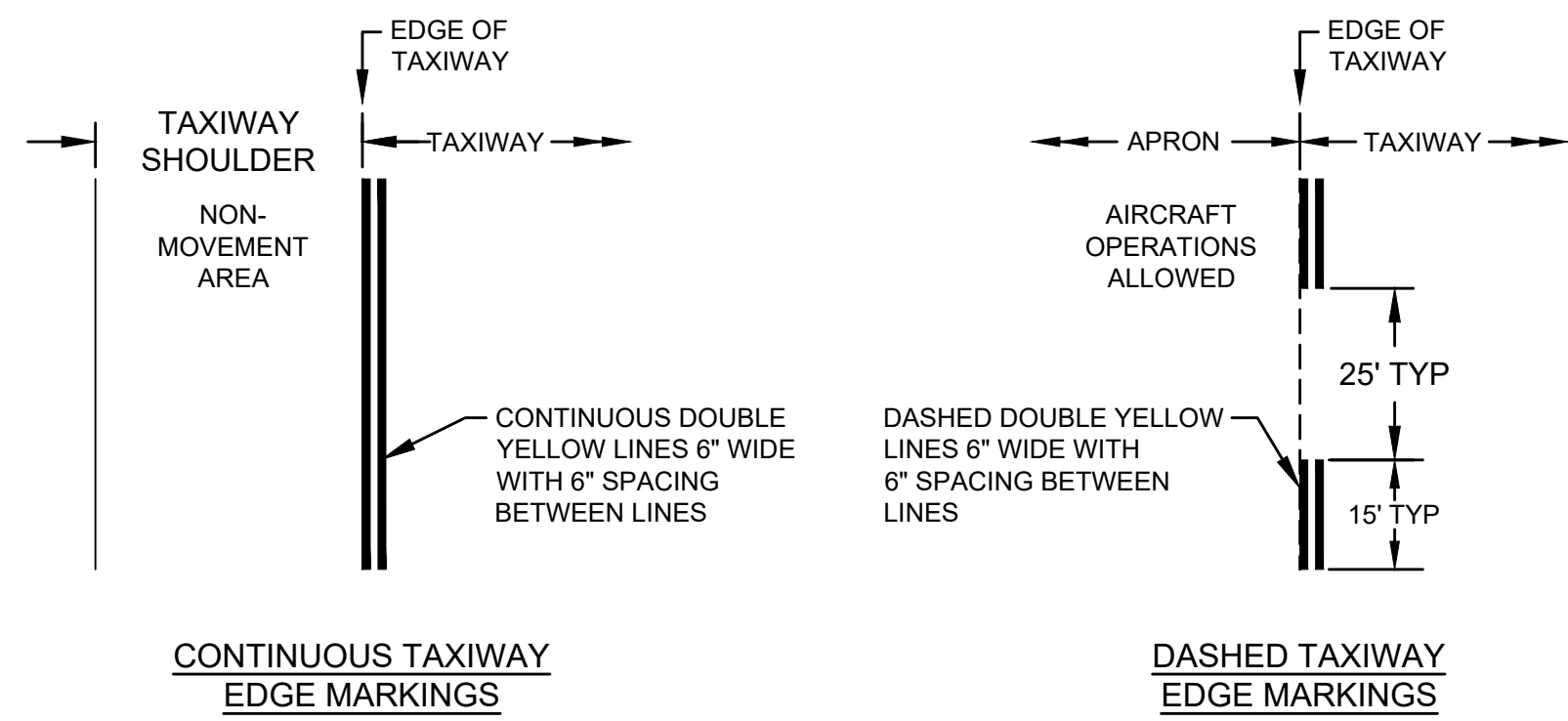
NICKLAUS ENGINEERING, INC.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: AS SHOWN
DATE: APRIL, 2024
DES. BY: DESIGNER
DRAWN BY: STAFF
SURVEYED BY: STAFF
JOB. No.: 023-005
SHEET 27 OF 47

ARIZONA
Professional Engineer
51919 ANTONIO ALVAREZ
LICENSED IN THE STATE OF ARIZONA
U.S.A.

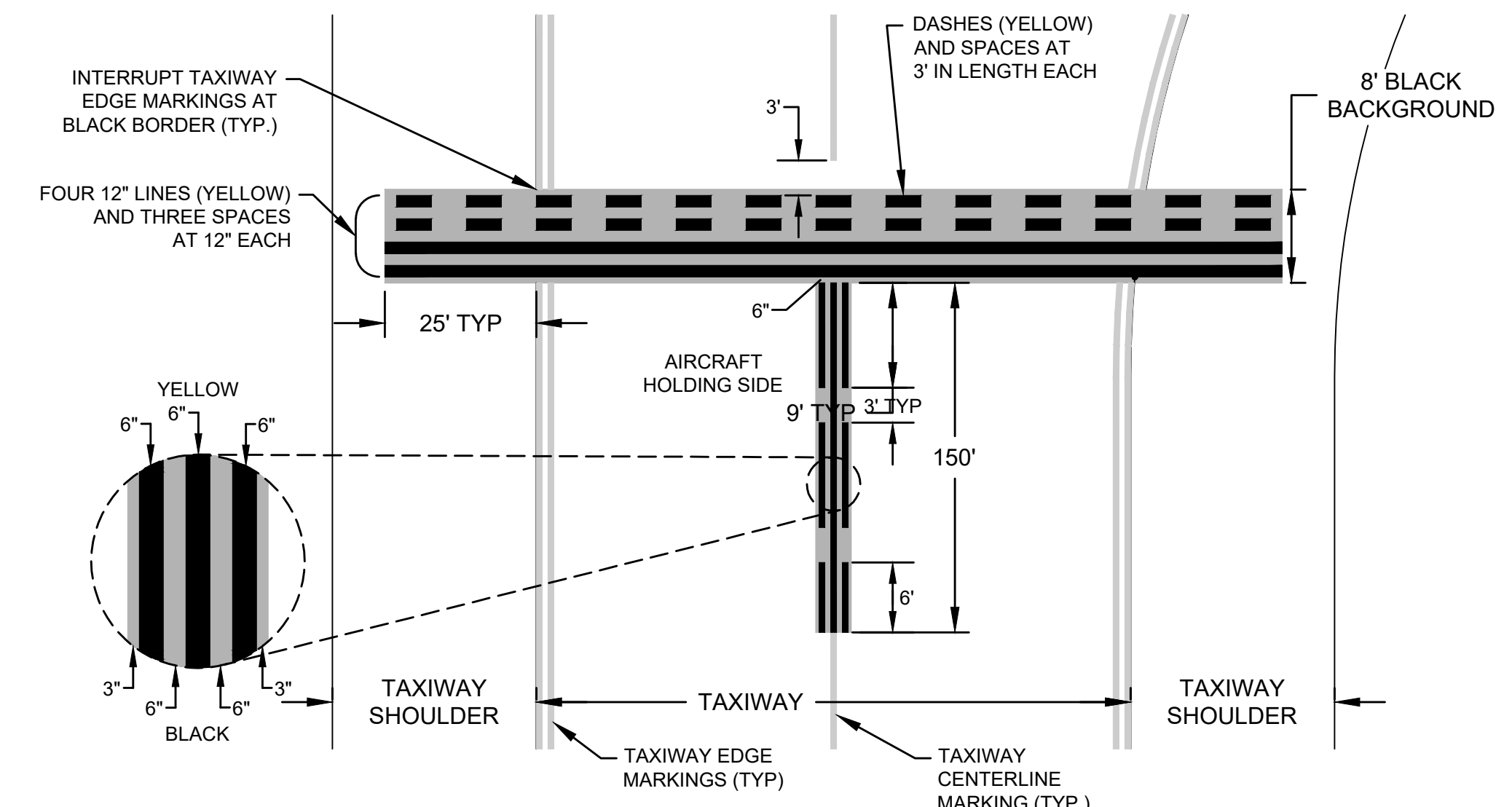
N:\2023\023-0005\0000 Taxiway F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxiway F1 Rehabilitation 100%&eng

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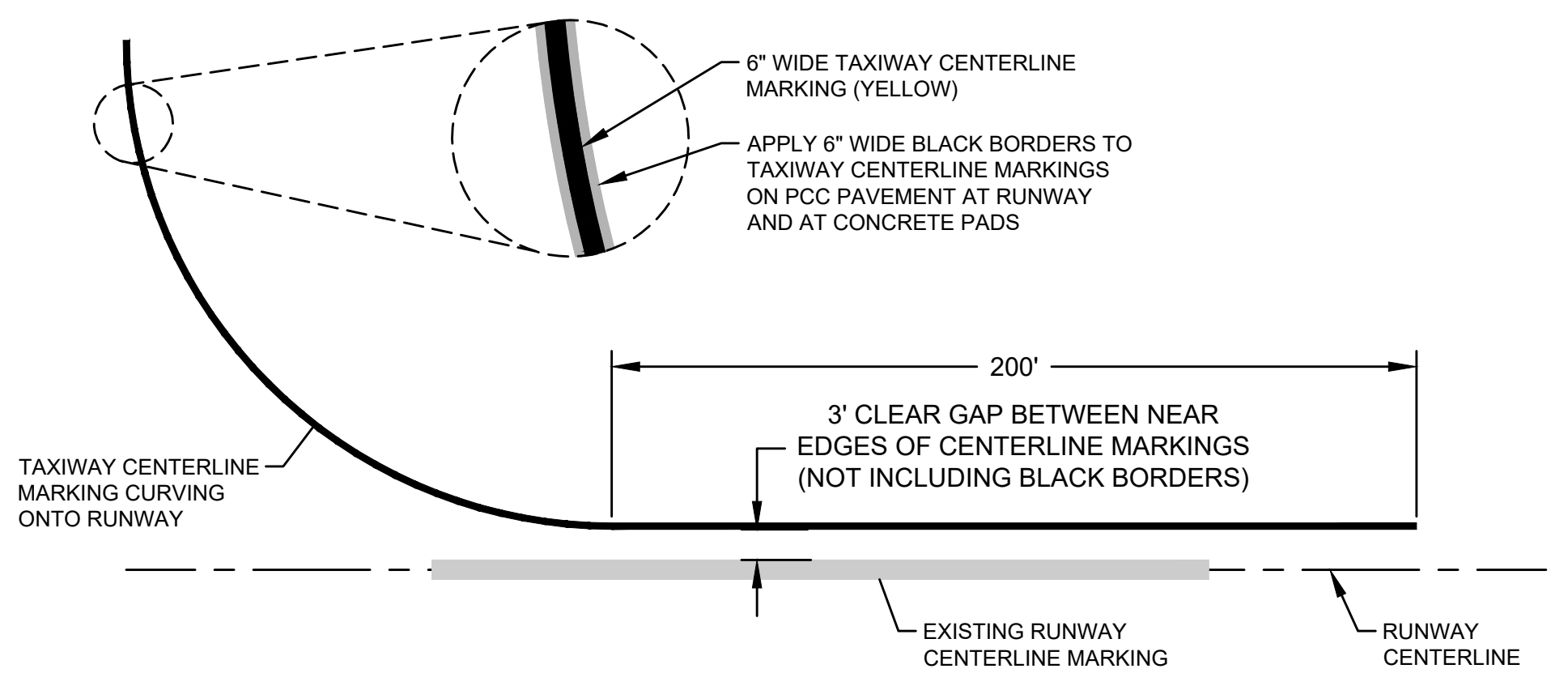


NOTE
1) TAXIWAY EDGE MARKINGS SHALL BE INTERRUPTED AT RUNWAY HOLDING POSITION MARKINGS AND STOP AT RUNWAY SIDE STRIPE MARKINGS.

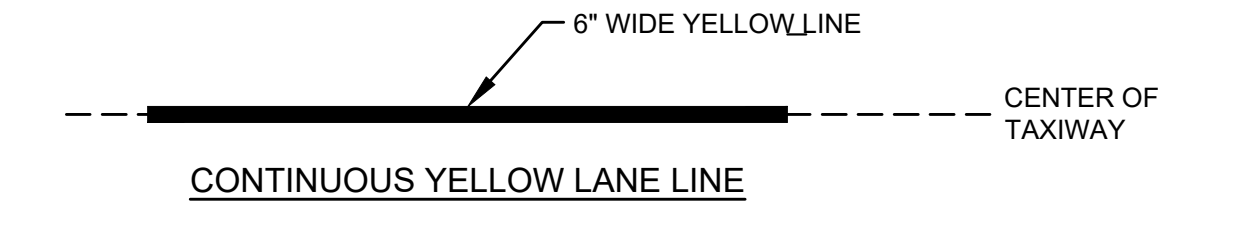
TAXIWAY EDGE MARKINGS A
C403



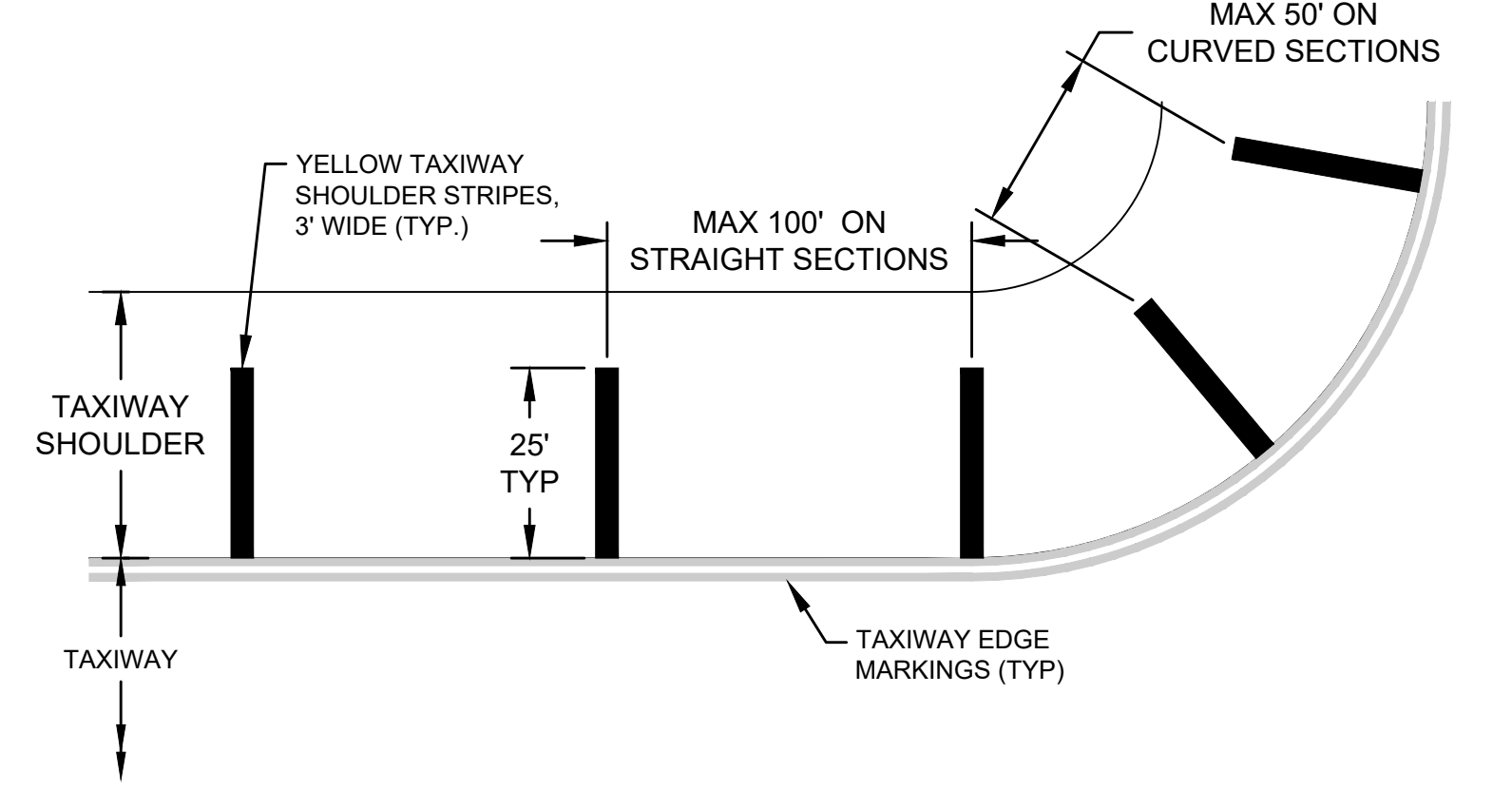
RUNWAY HOLDING POSITION MARKING & ENHANCED TAXIWAY CENTERLINE B
C403



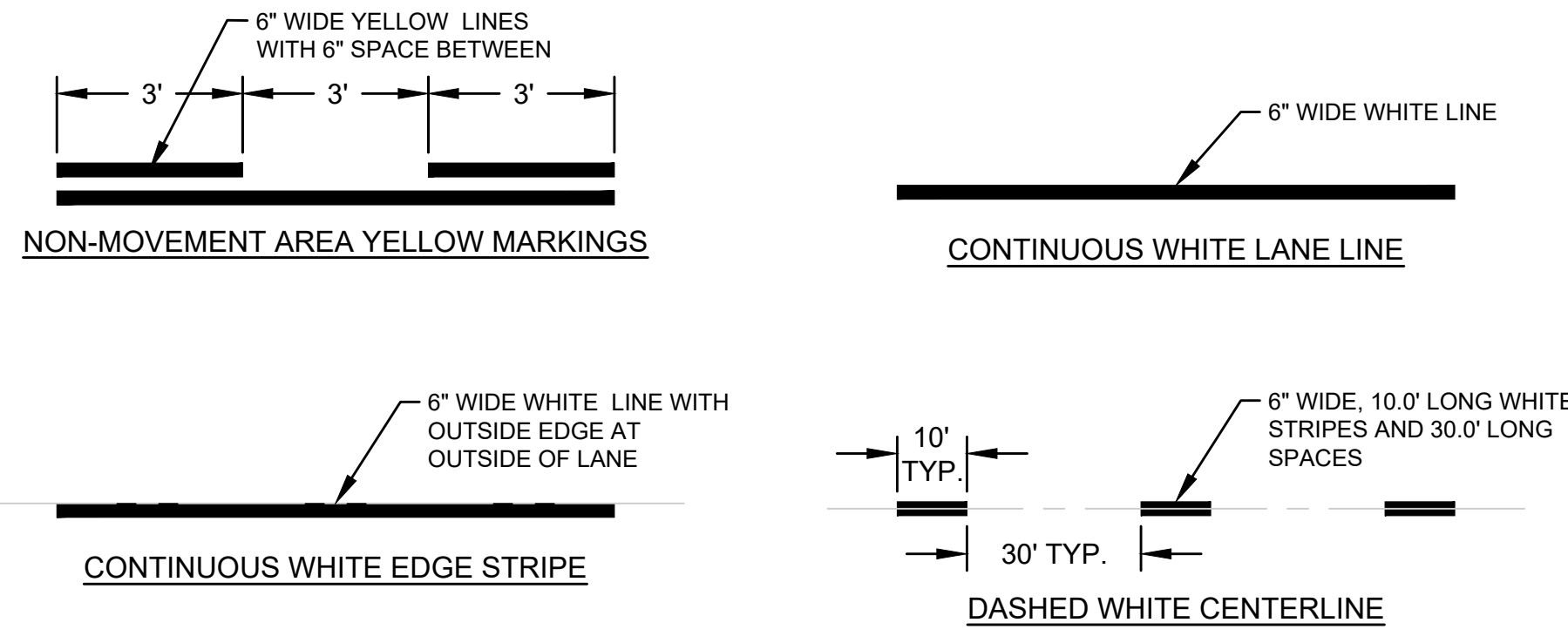
TAXIWAY-RUNWAY LEAD IN MARKING C
C403



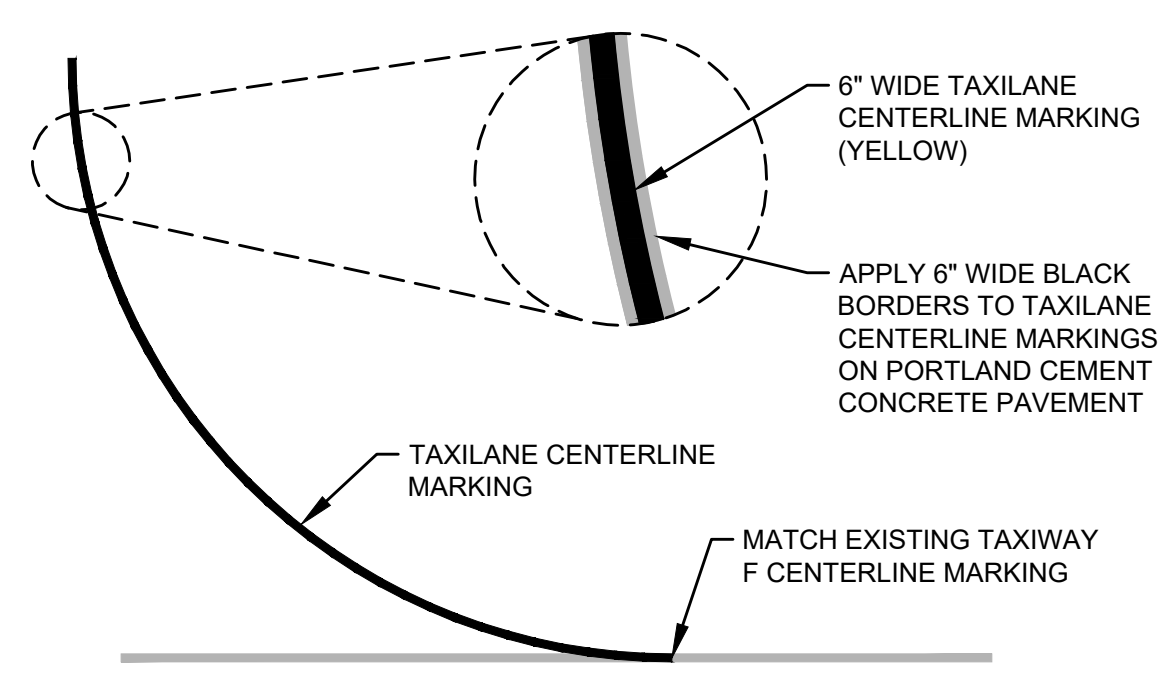
TAXIWAY CENTERLINE MARKINGS D
C403



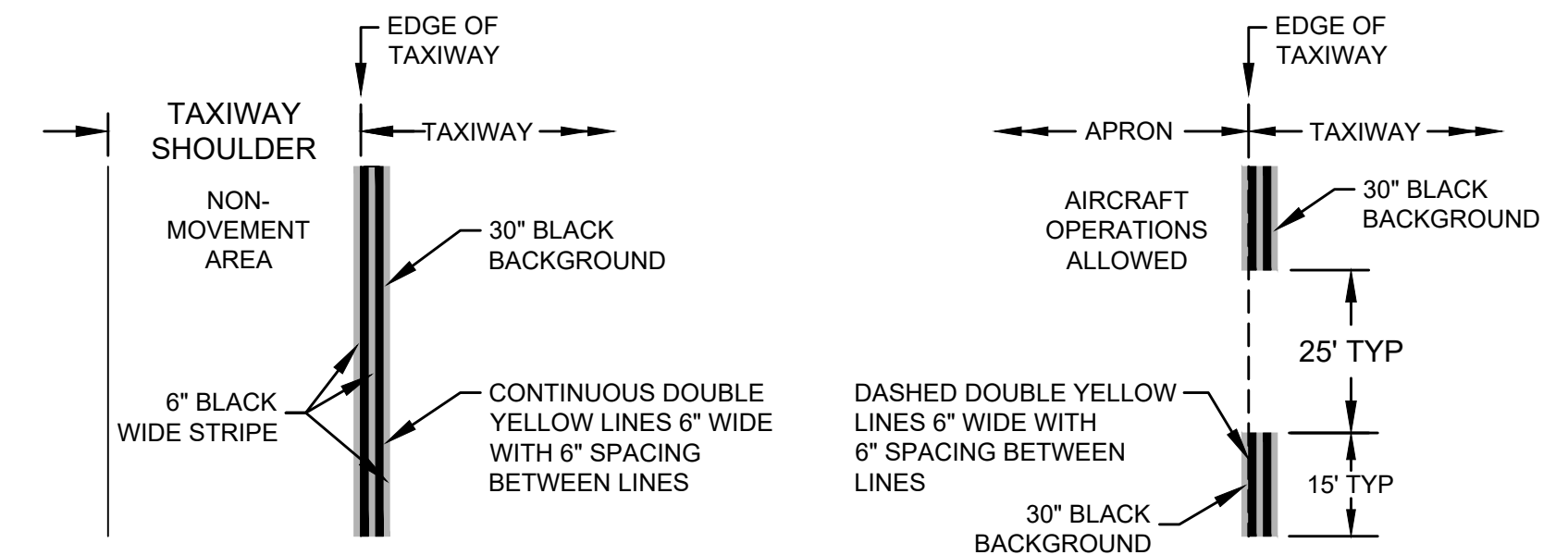
TAXIWAY SHOULDER MARKINGS E
C403



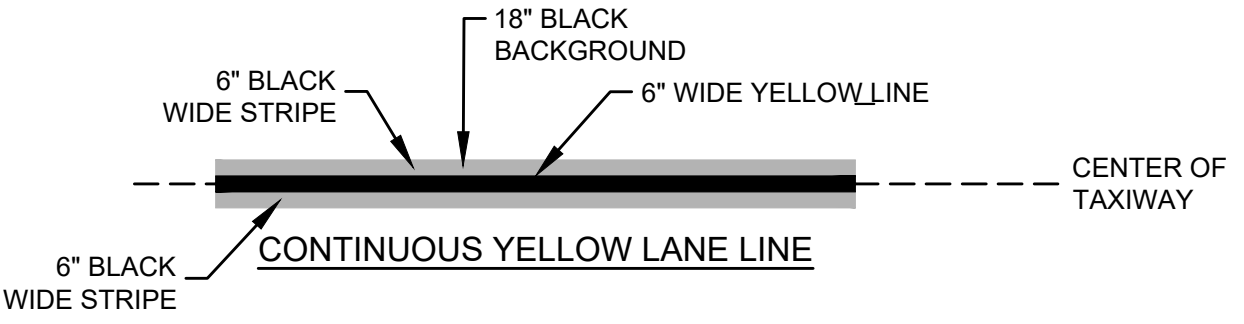
TYPICAL STRIPING DETAILS F
C403



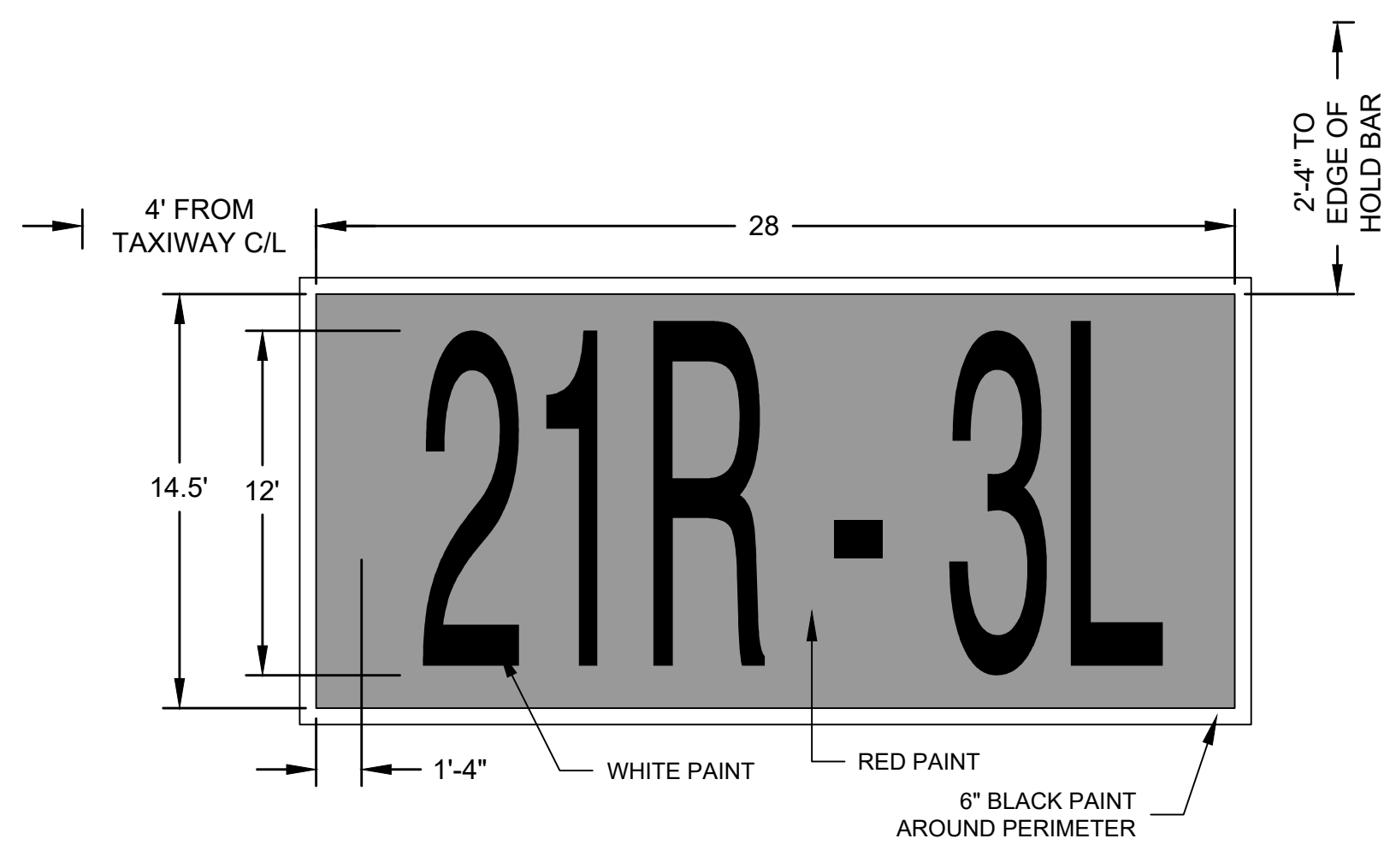
TAXILANE CENTERLINE MARKING G
C403



ENHANCED TAXIWAY EDGE MARKINGS I
C403



ENHANCED TAXIWAY CENTERLINE MARKINGS H
C403

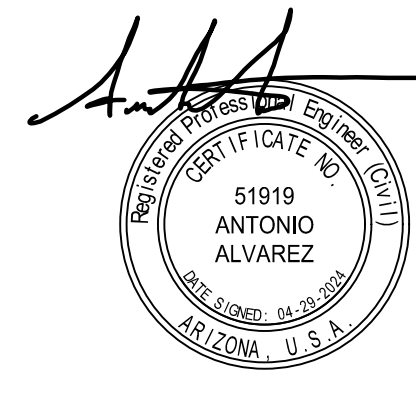


SURFACE PAINTED HOLD SIGN J
C403



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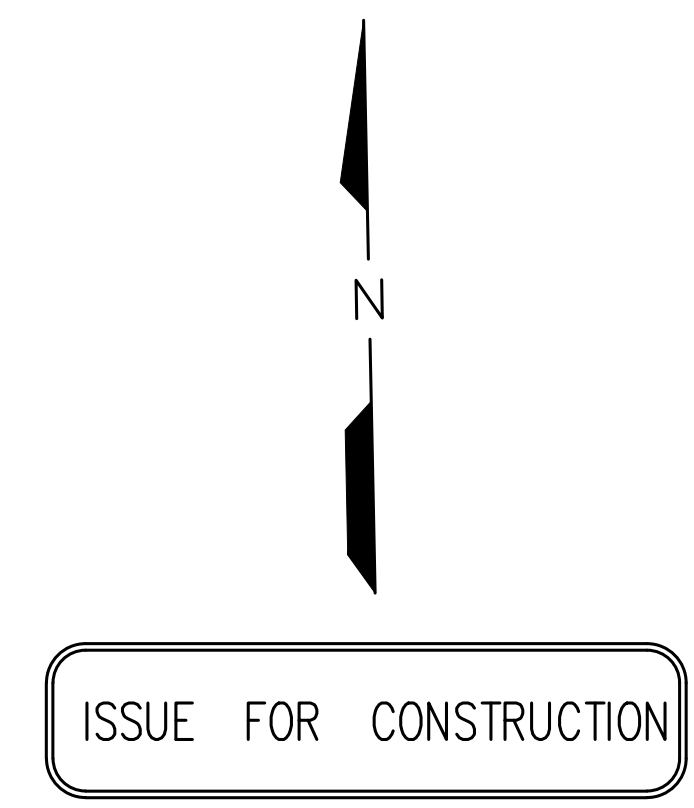
TAXIWAY F1 REHABILITATION	
MARKING DETAILS	SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 28 OF 47
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
C403	

N:\2023\023-0005\0000 Taxilane F1 Rehabilitation\02 Civil\02 - Drawings\023-0005 Taxilane F1 Rehabilitation 100%².dwg

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ELECTRIC STANDARD SYMBOLS AND ABBREVIATIONS (NOT ALL APPLY)

STANDARD SYMBOLS - POWER		STANDARD SYMBOLS - POWER		STANDARD SYMBOLS - LIGHTING		STANDARD SYMBOLS - COMM/DATA																																																																																																																																																																																																													
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION																																																																																																																																																																																																												
	SINGLE RECEPTACLE, 125V, 20A, NEMA 5-20R		BALANCED MAGNETIC SWITCH		FLUORESCENT LIGHT, SURFACE OR PENDANT MOUNT (SEE FIXTURE SCHEDULE FOR MOUNTING TYPE)		DATA JACK, WALL MOUNT																																																																																																																																																																																																												
	DUPLEX RECEPTACLE, 125V, 20A, NEMA 5-20R		SAFETY SWITCH AND MOTOR CONTROLLER, COMBINATION, PROVIDE WITH ELECTRICAL LOCK-OUT PROVISIONS. MOUNT TOP AT 72" ABOVE FLOOR UNLESS NOTE OTHERWISE		FLUORESCENT LIGHT, SURFACE, PENDANT, OR RECESSED MOUNT, EMERGENCY (SEE FIXTURE SCHEDULE FOR MOUNTING TYPE)		DATA JACK, FLOOR MOUNT																																																																																																																																																																																																												
	DUAL DUPLEX RECEPTACLE, 125V, 20A, NEMA 5-20R		FUSED DISCONNECT, MOUNT TOP AT 72" ABOVE FLOOR UNLESS NOTE OTHERWISE		FLUORESCENT LIGHT, STRIP		COMBINATION DATA/TELEPHONE JACK, WALL MOUNT																																																																																																																																																																																																												
	DUPLEX RECEPTACLE, GFI, 125V, 20A, NEMA 5-20R		SAFETY SWITCH, MOUNT TOP AT 72" ABOVE FLOOR UNLESS NOTE OTHERWISE		FLUORESCENT LIGHT, STRIP, NIGHT LIGHT		COMBINATION DATA/TELEPHONE JACK, FLOOR MOUNT																																																																																																																																																																																																												
	DUPLEX RECEPTACLE, WEATHERPROOF, 125V, 20A, NEMA 5-20R		ENCLOSED BREAKER, MOUNT TOP AT 72" ABOVE FLOOR UNLESS NOTE OTHERWISE		FLUORESCENT LIGHT, STRIP, EMERGENCY		TELEPHONE JACK, WALL MOUNT																																																																																																																																																																																																												
	DUPLEX RECEPTACLE, IG, 125V, 20A, NEMA 5-20R		SWITCH-MOTOR RATED, THERMAL OVERLOAD, FOR FRACTIONAL HORSEPOWER MOTORS		LIGHT, CEILING OR PENDANT		TELEPHONE JACK, FLOOR MOUNT																																																																																																																																																																																																												
	DUPLEX RECEPTACLE, FLOOR MOUNT, 125V, 20A, NEMA 5-20R		CABLE TRAY		LIGHT, RECESSED		COMMUNICATION CABLE, AERIAL																																																																																																																																																																																																												
	DUPLEX RECEPTACLE, CEILING MOUNTED, 125V, 20A, NEMA 5-20R		ELECTRICAL PRIMARY, AERIAL		EXIT LIGHT, WALL MOUNT, SINGLE FACE, 90 MINUTE BATTERY PACK		COMMUNICATION CABLE, AERIAL, EXISTING																																																																																																																																																																																																												
	RECEPTACLE, 20A, 125V, 2P/3W, LOCKING, NEMA REF XX-20R		ELECTRICAL PRIMARY, AERIAL, EXISTING		SWITCH, SINGLE POLE SINGLE THROW (SPST) SWITCH, SMALL LETTER INDICATES DEVICE SWITCHED		COMMUNICATION CABLE, UNDERGROUND																																																																																																																																																																																																												
	POWER POLE, RECESS MOUNT		ELECTRICAL PRIMARY, UNDERGROUND		SWITCH, DOUBLE POLE SINGLE THROW (DPST) SWITCH, SMALL LETTER INDICATES DEVICE SWITCHED (IF USED)		COMMUNICATION CABLE, UNDERGROUND, EXISTING																																																																																																																																																																																																												
	PLUG-IN STRIP, AS SPECIFIED ON PLANS		ELECTRICAL PRIMARY, UNDERGROUND, EXISTING		SWITCH, SINGLE POLE DOUBLE THROW (SPDT-3 POLE) SWITCH, SMALL LETTER INDICATES DEVICE SWITCHED (IF USED)		FIBER OPTIC CABLE																																																																																																																																																																																																												
	PANELBOARD, 240V OR 208V, RECESS MOUNT		ELECTRICAL SECONDARY, AERIAL		SWITCH, DOUBLE POLE DOUBLE THROW (DPDT-4 POLE) SWITCH, SMALL LETTER INDICATES DEVICE SWITCHED (IF USED)	ANNOTATIVE SYMBOLS																																																																																																																																																																																																													
	PANELBOARD, 240V OR 208V, SURFACE MOUNT		ELECTRICAL SECONDARY, AERIAL, EXISTING		SWITCH, SINGLE POLE, DIMMING TYPE SWITCH, SMALL LETTER INDICATES DEVICE SWITCHED (IF USED)		KEY NOTE, X - DENOTES THE KEY NOTE NUMBER																																																																																																																																																																																																												
	PANELBOARD, 480V, RECESS MOUNT		ELECTRICAL SECONDARY, UNDERGROUND		SWITCH, EMERGENCY POWER OFF		CIRCUIT IDENTIFICATION, XX - DENOTES FEEDER NUMBER/IDENTIFICATION																																																																																																																																																																																																												
	PANELBOARD, 480V, SURFACE MOUNT		ELECTRICAL SECONDARY, UNDERGROUND, EXISTING		SWITCH, SINGLE POLE, WEATHERPROOF SWITCH, SMALL LETTER INDICATES DEVICE SWITCHED (IF USED)	TITLE																																																																																																																																																																																																													
	CONTROL PANEL, SURFACE MOUNT		ELECTRICAL DUCTBANK		PHOTOCELL, HEAVY DUTY DIE CAST HOUSING, SPST, 120V OR 208/277V, 1800VA	NOT TO SCALE																																																																																																																																																																																																													
	JUNCTION BOX, SIZE FOR WIRE FILL OR AS SPECIFIED		ELECTRICAL DUCTBANK, EXISTING		OCCUPANCY SENSOR, CEILING MOUNT	DETAIL BUBBLE, TITLE - INDICATES THE TITLE OF THE DETAIL SCALE - INDICATES THE SCALE OF THE DETAIL (IF APPLICABLE) X - DENOTES DETAIL NUMBER Y - DENOTES SHEET NUMBER Z - DENOTES REFERENCE SHEET NUMBER																																																																																																																																																																																																													
	JUNCTION BOX, FLOOR MOUNT		ELECTRICAL FLEX CONDUIT		OCCUPANCY SENSOR, WALL MOUNT	ABBREVIATIONS																																																																																																																																																																																																													
	GENERATOR, AS SPECIFIED ON PLANS		CONDUIT OR WIRE REPAIR ITEM	<table style="width: 100%; border: none;"> <tr> <td>A</td><td>AMPERE(S)</td> <td>F.C.O.</td><td>FLOOR CLEAN OUT</td> <td>N.T.S.</td><td>NOT TO SCALE</td> </tr> <tr> <td>A.C.</td><td>ABOVE COUNTER</td> <td>F.D.</td><td>FIRE DAMPER</td> <td>O</td><td>OXYGEN</td> </tr> <tr> <td>A/C</td><td>AIR CONDITIONED</td> <td>FLR</td><td>FLOOR</td> <td>O.A.</td><td>OUTSIDE AIR</td> </tr> <tr> <td>A.D.</td><td>AIR CONDITIONED</td> <td>FPM</td><td>FEET PER MINUTE</td> <td>OBD</td><td>OPPOSED BLADE DAMPER</td> </tr> <tr> <td>A.F.F.</td><td>ABOVE FINISHED FLOOR</td> <td>F.S.D.</td><td>FIRE/SMOKE DAMPER</td> <td>O.C.</td><td>ON CENTER</td> </tr> <tr> <td>AHU</td><td>AIR HANDLING UNIT</td> <td>FT</td><td>FEET, FOOT</td> <td>O.H.</td><td>OVERHEAD</td> </tr> <tr> <td>AP</td><td>ACCESS PANEL</td> <td>GFCI</td><td>GROUND FAULT CURRENT INTERRUPTER</td> <td>P</td><td>PUMP</td> </tr> <tr> <td>AS</td><td>AIR SEPARATOR</td> <td>GND.</td><td>GROUND</td> <td>PRV</td><td>PRESSURE REDUCING VALVE</td> </tr> <tr> <td>B</td><td>BOILER</td> <td>GPM</td><td>GALLONS PER MINUTE</td> <td>PSIG</td><td>POUNDS PER SQUARE INCH</td> </tr> <tr> <td>B.F.</td><td>BELOW FLOOR</td> <td>GW</td><td>GREASE WASTE</td> <td>QTY.</td><td>QUANTITY</td> </tr> <tr> <td>B.G.</td><td>BELOW GRADE</td> <td>H</td><td>HOOD</td> <td>RA</td><td>RETURN AIR</td> </tr> <tr> <td>CB</td><td>CIRCUIT BREAKER</td> <td>HP</td><td>HORSEPOWER</td> <td>REQ'D</td><td>REQUIRED</td> </tr> <tr> <td>CH</td><td>WATER COOLED CHILLER</td> <td>HW</td><td>HOT WATER</td> <td>RPM</td><td>REVOLUTIONS PER MINUTE</td> </tr> <tr> <td>CISP</td><td>CAST IRON SOIL PIPE</td> <td>HWCP</td><td>HOT WATER CIRCULATION PUMP</td> <td>RTU</td><td>ROOF TOP UNIT</td> </tr> <tr> <td>CKT</td><td>CIRCUIT</td> <td>HZ</td><td>HERTZ</td> <td>SC</td><td>SHARED CIRCUIT</td> </tr> <tr> <td>CLG.</td><td>CEILING</td> <td>IN.</td><td>INCHES</td> <td>S.D.</td><td>SMOKE DAMPER</td> </tr> <tr> <td>C.O.</td><td>CLEANOUT</td> <td>IN. 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TAXIWAY F-1 REHABILITATION

SYMBOLS & ABBREVIATIONS

Nicklaus

Engineering, Inc.

1851 West 24th Street Yuma, Arizona 85364

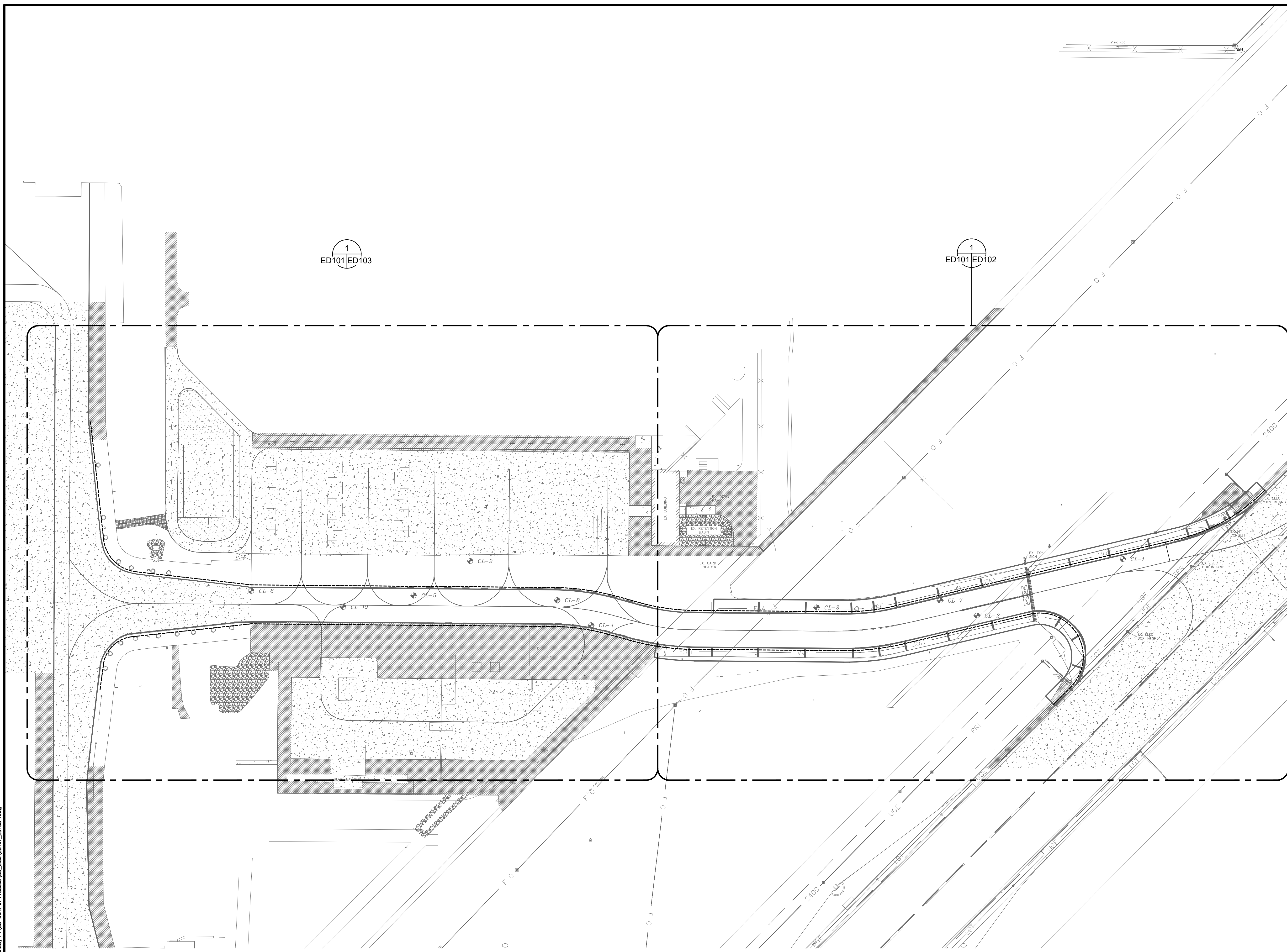
Phone: (928) 344-8374

www.nieaw.com

SCALE:	NTS
DATE:	4/26/2024
DES. BY:	APM
DRAWN BY:	DM
SURVEYED BY:	---
JOB. No.:	023.0005
SHEET	1 OF 42

E-000

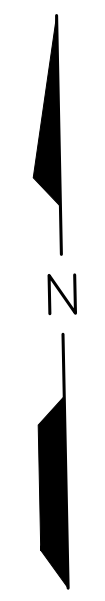
16414 San Pedro, Suite 425
San Antonio, Texas
Phone: (210) 491-8000
www.wsp.com



GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL ELECTRICAL DEMOLITION DRAWINGS UNLESS NOTED OTHERWISE.
2. EXISTING INFORMATION SHOWN WAS TAKEN FROM EXISTING DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL FIELD VERIFY QUANTITIES, LOCATIONS, AND CIRCUITING PRIOR TO BID AND NOTIFY CONTRACTING OFFICER OF ANY SUBSTANTIAL DISCREPANCIES WHICH WOULD IMPACT BASIS OF DESIGN AND CONSTRUCTION.
3. CONTRACTOR SHALL REMOVE EXISTING TAXIWAY EDGE, RUNWAY THRESHOLD LIGHT FIXTURES AND TRANSFORMERS AS INDICATED AND STORE FOR RE-USE. EXISTING TRANSFORMER CANS TO BE DEMOLISHED AS INDICATED.
4. ELECTRICAL ITEMS IN BOLD AND DASHED DENOTE ITEMS TO BE REMOVED. THE CONTRACTOR SHALL REMOVE, DEMOLISH, AND DISPOSE OF ALL ITEMS AND EQUIPMENT THAT ARE SHOWN FOR DEMOLITION AND NOT TO REMAIN.
5. CONTRACTOR SHALL VERIFY EXISTING CIRCUITS AND UPDATE DRAWINGS AS APPROPRIATE.
6. REFER TO GENERAL NOTES AND KEY NOTES ON THIS DRAWING FOR INFORMATION PERTAINING TO THE MAINTENANCE, UPGRADING OR RETROFITTING OF EXISTING ITEMS.

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THESE RESTRICTIONS.



ISSUE FOR CONSTRUCTION

TAXIWAY F-1 LIGHTING DEMOLITION SITE PLAN

SCALE: 1:100

1
ED101

TAXIWAY F-1 REHABILITATION

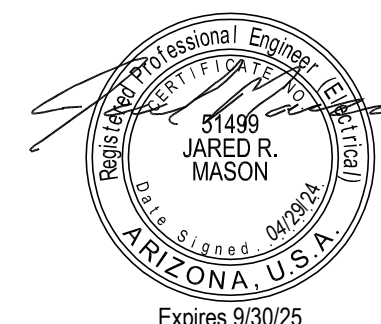
AIRFIELD DEMO LIGHTING

SCALE:	1:100
DATE:	4/26/2024
DES. BY:	APM
DRAWN BY:	DM
SURVEYED BY:	---
JOB. No.:	023.0005
SHEET	2 OF 42

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ED-101

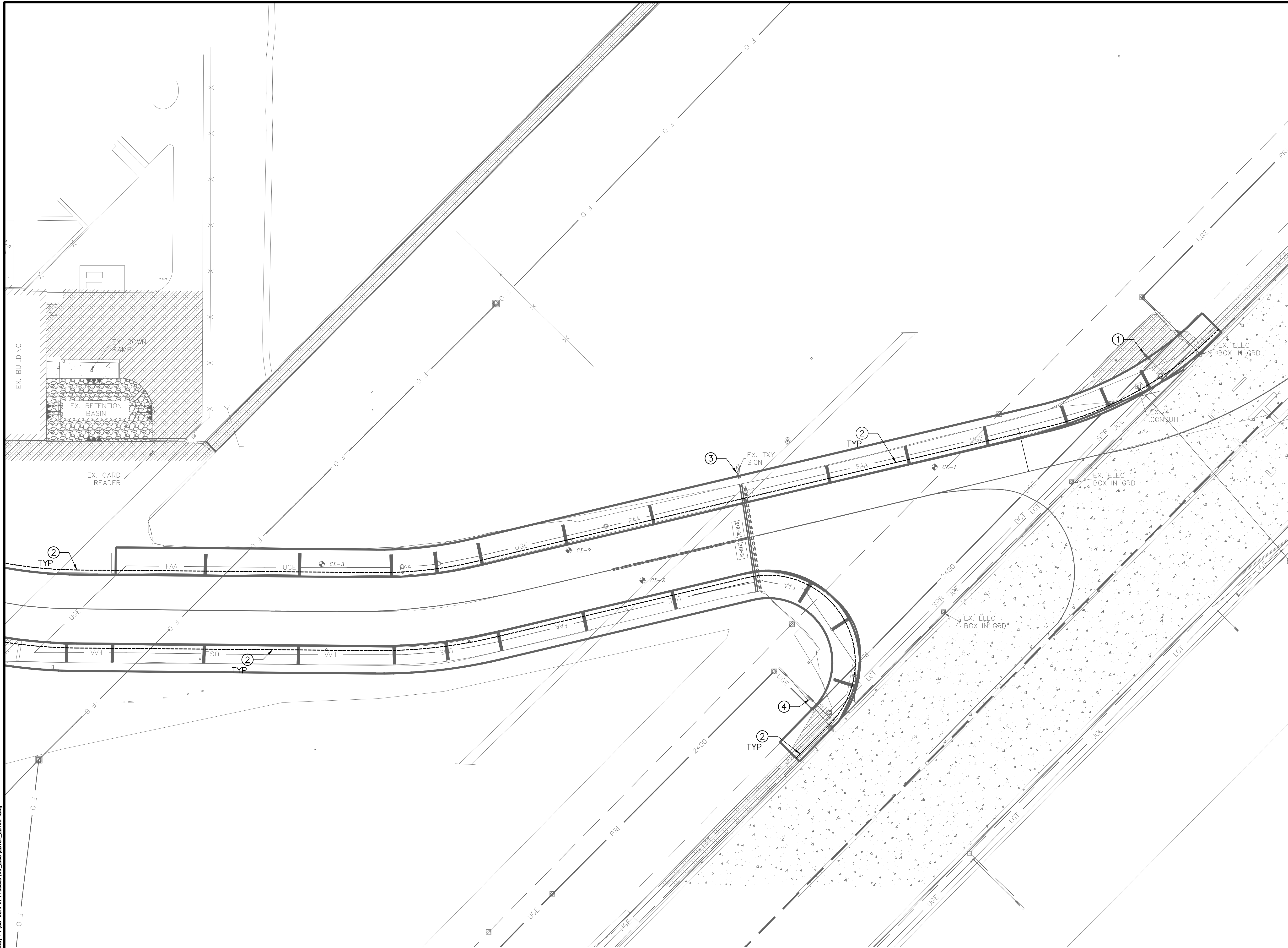


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KEY NOTES: (X)

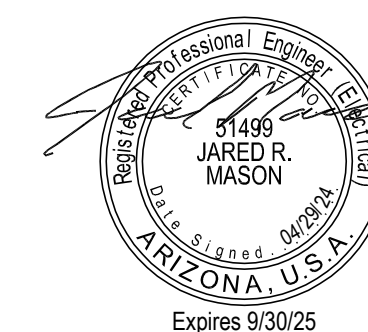
1. REMOVE, CLEAN, AND STORE EXISTING TAXIWAY SIGN TO BE RELOCATED.
2. DEMOLISH AND REMOVE GROUND COUNTERPOISE AT TAXIWAY EDGE.
3. DISCONNECT CONDUCTORS AND CONDUIT AT EXISTING MANDATORY SIGN TO BE RECONNECTED.
4. EXISTING TAXIWAY SIGN TO REMAIN.



ISSUE FOR CONSTRUCTION

TAXIWAY F-1 LIGHTING DEMOLITION PARTIAL SITE PLAN
SCALE: 1:50

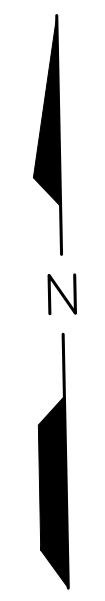
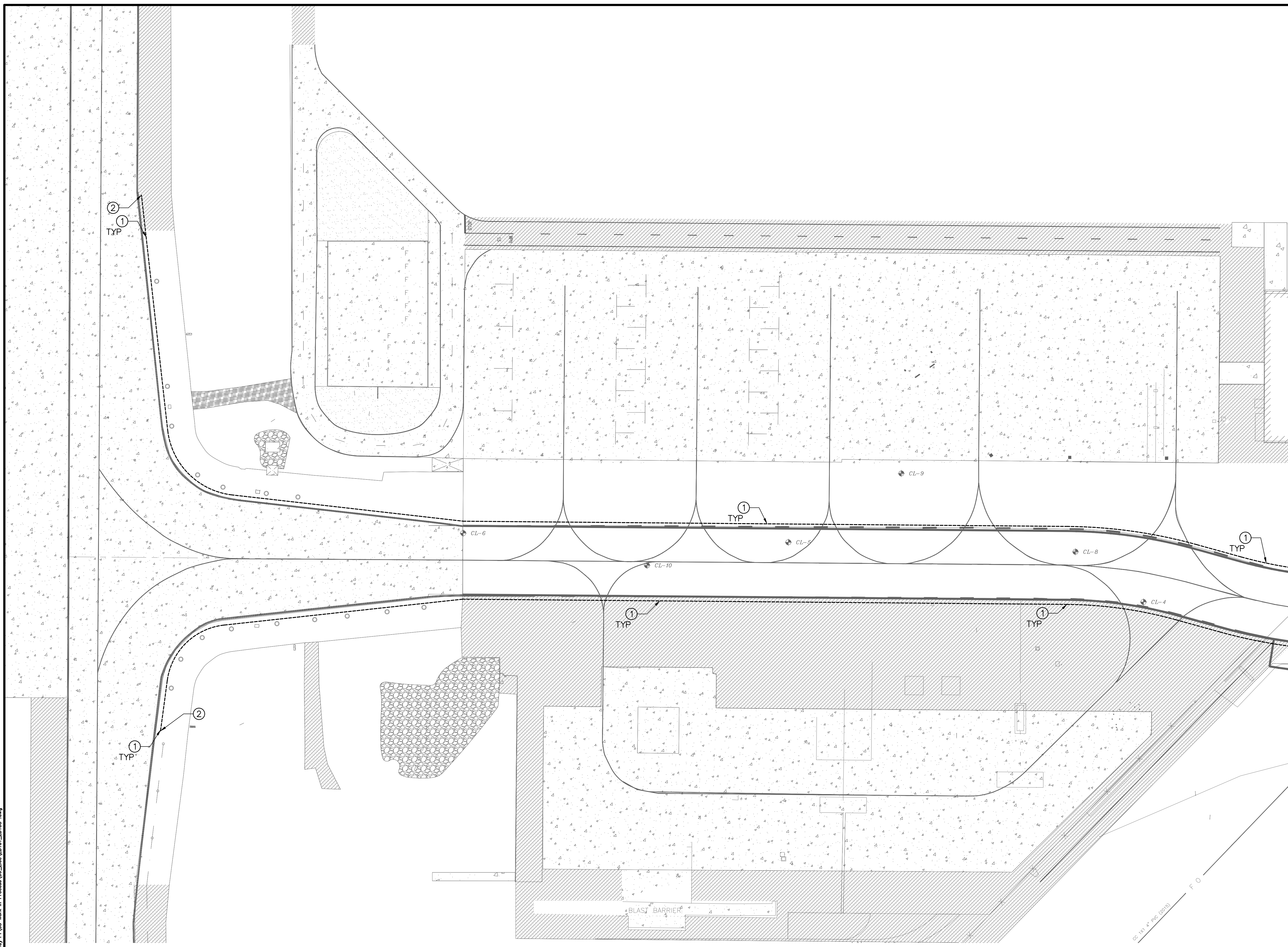
1
ED102



TAXIWAY F-1 REHABILITATION	
AIRFIELD DEMO LIGHTING	
Nicklaus Engineering, Inc.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.nielaw.com	
SCALE: 1:50 DATE: 4/26/2024 DES. BY: APM DRAWN BY: DM SURVEYED BY: --- JOB. No.: 023.0005 SHEET 3 OF 42	ED-102

KEY NOTES: (X)

1. DEMOLISH AND REMOVE TAXIWAY F GROUND COUNTERPOISE AT TAXIWAY EDGE.
2. EXISTING TAXIWAY H GROUND COUNTERPOISE TO REMAIN FOR CONNECTION TO NEW.



ISSUE FOR CONSTRUCTION

TAXIWAY F-1 LIGHTING DEMOLITION PARTIAL SITE PLAN
 SCALE: 1:50
 1
 ED103



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 San Antonio, Texas
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 www.wsp.com

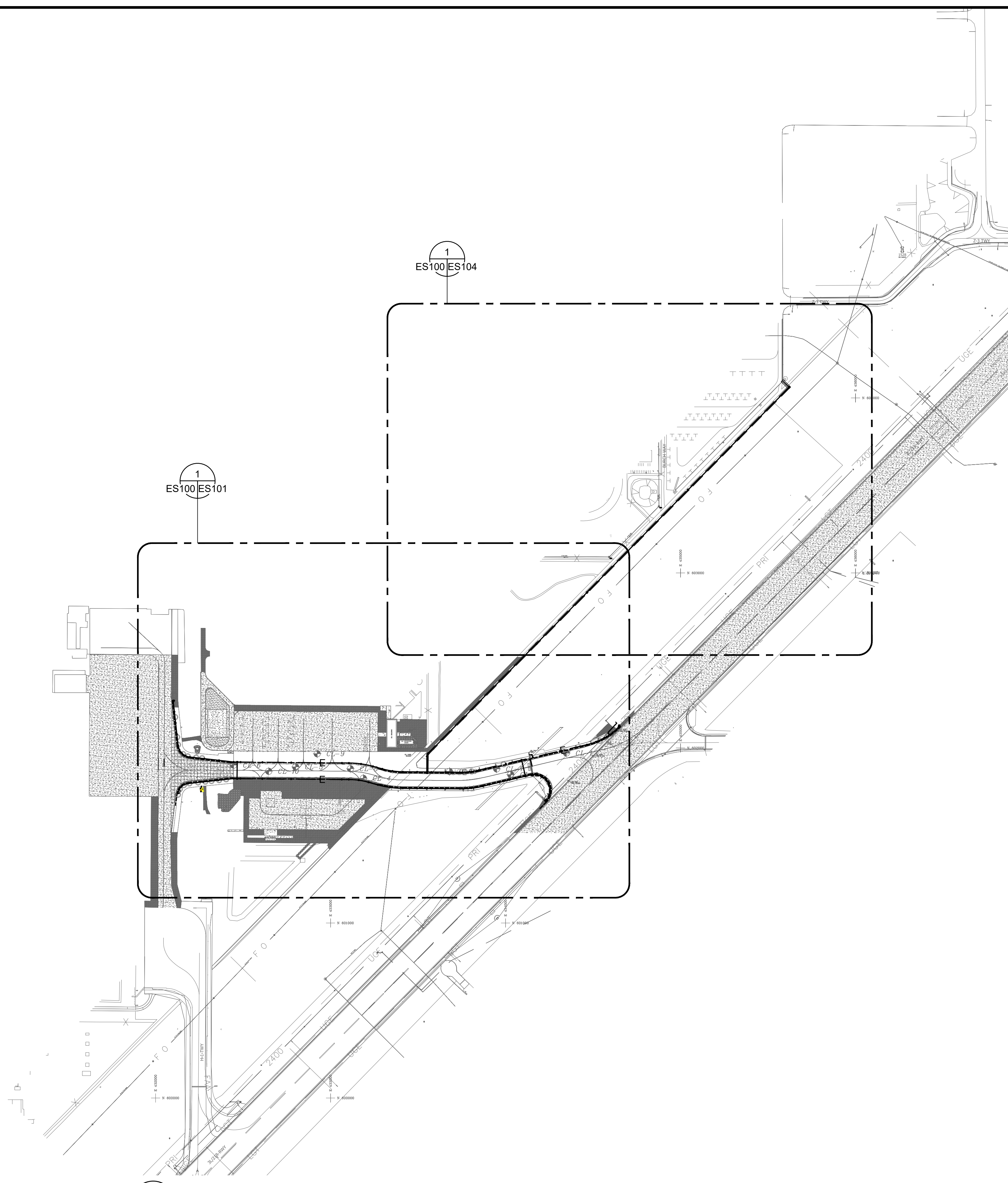
TAXIWAY F-1 REHABILITATION	
AIRFIELD DEMO LIGHTING	
Nicklaus Engineering, Inc.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.nielaw.com	
SCALE: 1:50 DATE: 4/26/2024 DES. BY: APM DRAWN BY: DM SURVEYED BY: --- JOB. No.: 023.0005 SHEET 4 OF 42	ED-103

C:\Yuma International Airport - Taxiway F1\03 Work In Progress\08_ED101_ED103.dwg

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GENERAL NOTES:

1. THESE NOTES APPLY TO ALL ELECTRICAL DRAWINGS AS APPROPRIATE.
2. LIGHT BASES SHALL BE INSTALLED WITH CARE TO ASSURE VERTICAL AND AZIMUTH ALIGNMENT OF FIXTURE. USE MANUFACTURER'S RECOMMENDED ALIGNMENT JIG FOR INSTALLATION.
3. PROVIDE 2' TO 3' CABLE SLACK WITHIN LIGHT BASE AND INSIDE HANDHOLES TO ALLOW FIXTURE AND TRANSFORMER SERVICING. PROVIDE ONE LOOP OF CABLE FULL PERIMETER INSIDE MAINTENANCE HOLES.
4. SEE MANUFACTURER'S RECOMMENDATION FOR BOLT AND WASHER SPECIFICATION REQUIREMENTS, RECOMMENDED LUBRICANTS, BOLT TORQUE SEQUENCE AND INSTALLATION GUIDANCE.
5. FIELD VERIFY LOW DRAINAGE POINT OF EACH LIGHT BASE AND COORDINATE WITH MANUFACTURER EXACT LOCATION OF HUB CONNECTION FOR 2" DRAIN TO FACILITATE PROPER DRAINAGE. USE TEFLON TAPE WITH THREADED PVC FITTING TO 2" THREADED FEMALE HUB ON LIGHT BASE.
6. AT SHOULD PAVEMENT INSTALLATION, GROUND ROD LOCATION IS OUTSIDE THE BASE CAN ON THE SIDE OPPOSITE THE COUNTERPOISE AND CONNECTED TO THE EXTERNAL GROUND LUG.
7. PROVIDE 48" BRAIDED COPPER GROUND STRAP BETWEEN LIGHT BASE CAN AND LIGHT FIXTURE. STRAP MUST BE EQUIVALENT TO NO. 6 CABLE.
8. THE EXISTING AIRFIELD LIGHTING SYSTEMS MUST REMAIN IN OPERATING CONDITION EXCEPT WHERE COORDINATED AND SCHEDULED WITH THE AIRFIELD MANAGER AND APPROVED IN WRITING BY THE CONTRACTING OFFICER. PRIOR TO EACH SCHEDULED OUTAGE, ALL NECESSARY MATERIALS AND A SUFFICIENT LABOR FORCE SHALL BE ASSEMBLED TO PERMIT COMPLETING THE WORK WITHIN THE SCHEDULED TIME INTERVAL. UNDER NO CIRCUMSTANCES MUST ANY OF THE EXISTING AIRFIELD LIGHTING CIRCUITS BE LEFT INOPERATIVE WITHOUT WRITTEN APPROVAL OF THE CONTRACTING OFFICER.
9. ALL TEMPORARY AIRFIELD LIGHTING POWER CABLES ARE TO BE DIRECT BURIED A MINIMUM OF 24" WITH METALLIC BURIED WARNING TAPE AT 6" BELOW GRADE.
10. ALL AIRFIELD LIGHTING CIRCUITS COVERED UNDER THIS CONTRACT MUST BE RESTORED IN SUCH A MANNER THAT THEY WILL BE OPERATIONAL AT DUSK EACH DAY AND DURING ADVERSE VISIBILITY WEATHER EVENTS.
11. FIELD VERIFY ALL EXISTING COUNTERPOISE CONDUCTOR LOCATIONS AND CONNECT NEW COUNTERPOISE CONDUCTORS TO EXISTING USING EXOTHERMIC WELDS.



TAXIWAY F-1 SITE PLAN
SCALE: 1:200

1
ES100

ISSUE FOR CONSTRUCTION

TAXIWAY F-1 REHABILITATION

AIRFIELD LIGHTING

Nicklaus
Engineering, Inc.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: 1:200
DATE: 4/26/2024
DES. BY: APM
DRAWN BY: DM
SURVEYED BY: ---
JOB. No.: 023.0005
SHEET 5 OF 42

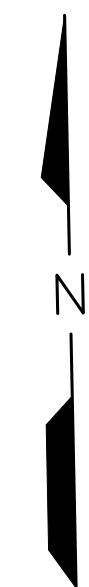
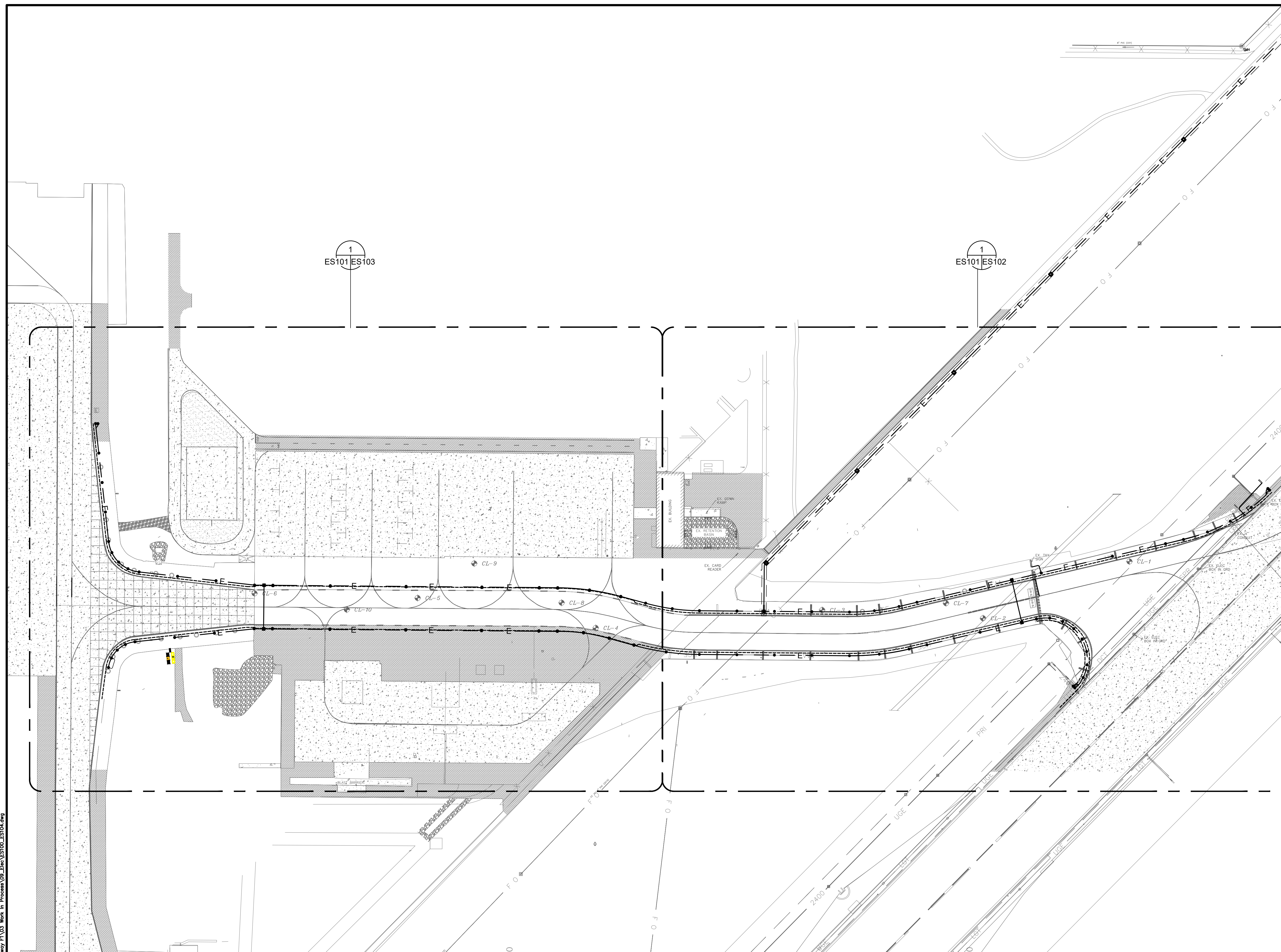
ES-100



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San Antonio, Texas
Phone: (210) 491-6000
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GENERAL NOTES:

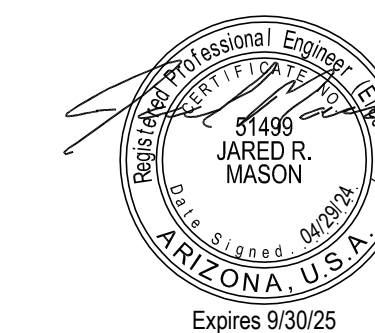
1. THESE NOTES APPLY TO ALL ELECTRICAL DRAWINGS AS APPROPRIATE.
2. LIGHT BASES SHALL BE INSTALLED WITH CARE TO ASSURE VERTICAL AND AZIMUTH ALIGNMENT OF FIXTURE. USE MANUFACTURER'S RECOMMENDED ALIGNMENT JIG FOR INSTALLATION.
3. PROVIDE 2' TO 3' CABLE SLACK WITHIN LIGHT BASE AND INSIDE MANHOLES TO ALLOW FIXTURE AND TRANSFORMER SERVICING.
4. SEE MANUFACTURER'S RECOMMENDATION FOR BOLT AND WASHER SPECIFICATION REQUIREMENTS, RECOMMENDED LUBRICANTS, BOLT TORQUE SEQUENCE AND INSTALLATION GUIDANCE.
5. FIELD VERIFY LOW DRAINAGE POINT OF EACH LIGHT BASE AND COORDINATE WITH MANUFACTURER EXACT LOCATION OF HUB CONNECTION FOR 2" DRAIN TO FACILITATE PROPER DRAINAGE. USE TEFLON TAPE WITH THREADED PVC FITTING TO 2" THREADED FEMALE HUB ON LIGHT BASE.
6. GROUND ROD LOCATION IS OUTSIDE THE BASE CAN ON THE SIDE OPPOSITE THE COUNTERPOISE AND CONNECTED TO THE EXTERNAL GROUND LUG.
7. PROVIDE 48" BRAIDED COPPER GROUND STRAP BETWEEN LIGHT BASE CAN AND LIGHT FIXTURE. WIRE MUST BE EQUIVALENT TO NO. 6 CABLE.
8. THE EXISTING AIRFIELD LIGHTING SYSTEMS MUST REMAIN IN OPERATING CONDITION EXCEPT WHERE COORDINATED AND SCHEDULED WITH THE AIRFIELD MANAGER AND APPROVED IN WRITING BY THE CONTRACTING OFFICER. PRIOR TO EACH SCHEDULED OUTAGE, ALL NECESSARY MATERIALS AND A SUFFICIENT LABOR FORCE SHALL BE ASSEMBLED TO PERMIT COMPLETING THE WORK WITHIN THE SCHEDULED TIME INTERVAL. UNDER NO CIRCUMSTANCES MUST ANY OF THE EXISTING AIRFIELD LIGHTING CIRCUITS BE LEFT INOPERATIVE WITHOUT WRITTEN APPROVAL OF THE CONTRACTING OFFICER.
9. ALL TEMPORARY AIRFIELD LIGHTING POWER CABLES ARE TO BE DIRECT BURIED A MINIMUM OF 18" WITH METALLIC BURIED WARNING TAPE AT 6" BELOW GRADE.
10. ALL AIRFIELD LIGHTING CIRCUITS COVERED UNDER THIS CONTRACT MUST BE RESTORED IN SUCH A MANNER THAT THEY WILL BE OPERATIONAL AT DUSK EACH DAY AND DURING ADVERSE VISIBILITY WEATHER EVENTS.
11. FIELD VERIFY ALL EXISTING COUNTERPOISE CONDUCTOR LOCATIONS AND CONNECT NEW COUNTERPOISE CONDUCTORS TO EXISTING USING EXOTHERMIC WELDS.



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TAXIWAY F-1 SITE PLAN
SCALE: 1:100

1
ES101



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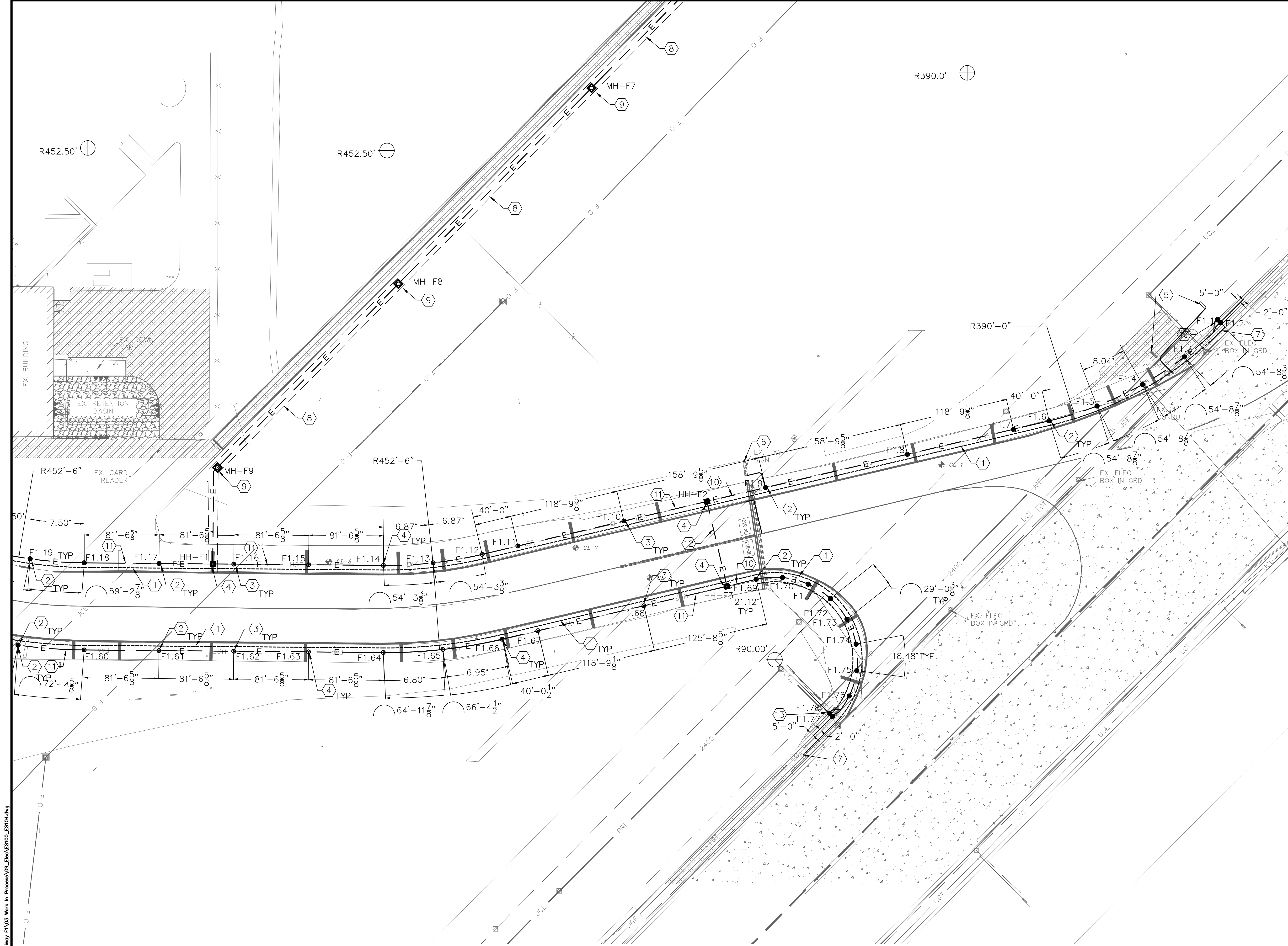
TAXIWAY F-1 REHABILITATION

AIRFIELD LIGHTING

Nicklaus
Engineering, Inc.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

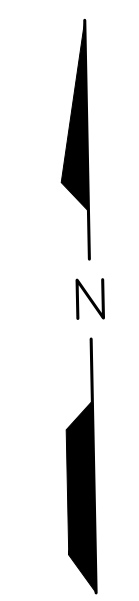
SCALE: 1:100
DATE: 4/26/2024
DES. BY: APM
DRAWN BY: DM
SURVEYED BY: ---
JOB. No.: 023.0005
SHEET 6 OF 42

ES-101



KEY NOTES: (X)

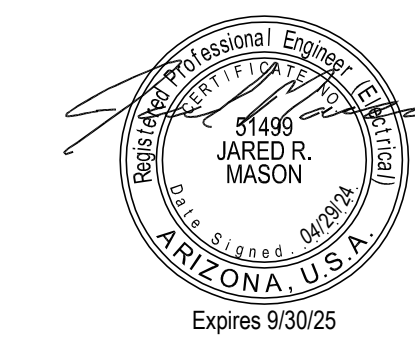
- #6 AWG COUNTERPOISE LOCATED HALF THE DISTANCE BETWEEN THE EDGE OF THE PCC PAVEMENT AND TAXIWAY LIGHTING SYSTEM (5'). SEE DETAILS 1/ES-503 AND 3/ES-503. PROVIDE 10' X 3/4" COPPER CLAD STEEL GROUND RODS NOT TO EXCEED EVERY 2000 FEET. EXOTHERMIC WELD COUNTERPOISE TO GROUND ROD AND PROVIDE TEST WELL ENCLOSURE WITH BOLTED COVERS AT EACH GROUND ROD. TYPICAL OF FLEXIBLE PAVEMENT LOCATION.
- PROVIDE AND INSTALL RECESSED L852T(L) LED TAXIWAY EDGE LIGHT FIXTURE IN SHOULDER PAVEMENT, L-868B 24" DEEP BASE AND TRANSFORMER. SEE DETAIL 1/ES-501.
- PROVIDE AND INSTALL ELEVATED L-861T(L) LED TAXIWAY EDGE LIGHT FIXTURE IN SHOULDER PAVEMENT, L-867B 24" DEEP BASE AND TRANSFORMER. SEE DETAIL 2/ES-501.
- AIRFIELD RATED PRE-CAST CONCRETE HANDHOLE AND HINGED COVER. SEE DETAIL 2/ES-505.
- RELOCATE EXISTING TAXIWAY EXIT SIGN AS INDICATED. ROUTE NEW CONDUCTORS TO MATCH EXISTING LIGHTING SYSTEM CONDUCTORS IN 2" SCH. 80 CONCRETE ENCASED CONDUIT AND RECONNECT TO EXISTING LIGHTING SYSTEM CIRCUIT. SEE DETAIL 1/ES-504 FOR INSTALLATION REQUIREMENTS.
- EXISTING AIRFIELD LIGHTING SIGN. VERIFY EXISTING CIRCUIT AND DISCONNECT FROM SOURCE. ROUTE #6 AWG L924C CONDUCTOR IN 2" SCH. 80 CONCRETE ENCASED PVC CONDUIT AND CONNECT TO NEW TAXIWAY F-1 LIGHTING CIRCUIT AS APPROPRIATE. SEE DETAIL 1/ES-504 FOR UNDERGROUND CABLE INSTALLATION REQUIREMENTS.
- ATTACH NEW COUNTERPOISE TO EXISTING USING EXOTHERMIC WELD. FIELD VERIFY EXACT LOCATION. SEE DETAIL 4/ES-503.
- (2) 4" SCH. 80 PVC DUCTBANK FROM FROM TAXIWAY F1 TO TAXIWAY Z LIGHTING CIRCUIT. BURY DUCT A MINIMUM OF 36" BELOW FINISHED GRADE. PROVIDE #6 AWG BARE COPPER COUNTERPOISE ABOVE DUCT, ROUTE (2) #6 AWG L824C CONDUCTORS TO TAXIWAY Z CIRCUIT. SEE DETAIL 4/ES-505.
- INSTALL NEW 6'x6'x7" MAINTENANCE HOLE WITH 48" BOLTED COVER. USE STAINLESS STEEL PENTAHEX BOLTS. SEE DETAIL 1/ES-505.
- (2) 2" SCH. 80 CONCRETE ENCASED DUCTS (1 TO FIXTURES/1 TO BYPASS) WITH #6 L-824C CONDUCTOR IN EACH. SEE DETAIL.
- (2) 2" SCH. 80 CONCRETE ENCASED DUCTS (1 TO FIXTURES/1 TO BYPASS AS SPARE) WITH #6 L-824C CONDUCTOR IN CONDUIT CONNECTED TO FIXTURES. SEE DETAIL.
- (2) 3" SCH. 80 CONCRETE ENCASED DUCTS WITH #6 L-824C CONDUCTOR IN EACH. BURY DUCTS A MINIMUM OF 36" BELOW FINISHED GRADE AND SLOPE TO HANDHOLES FOR DRAINAGE. SEE DETAILS 3/ES-503 AND 3/ES-505.
- TERMINATE BOTH 2" CONDUITS INTO END LIGHT FIXTURE BASES LOOP CIRCUIT CONDUCTORS AT THIS LOCATION.



ISSUE FOR CONSTRUCTION

TAXIWAY F-1 PARTIAL SITE PLAN
SCALE: 1:50

1
E102



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TAXIWAY F-1 REHABILITATION

AIRFIELD LIGHTING	SCALE: 1:50
<p>Nicklaus Engineering, Inc. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com</p>	DATE: 4/26/2024
	DES. BY: APM
	DRAWN BY: DM
	SURVEYED BY: ---
	JOB. No.: 023.0005
	SHEET 7 OF 42

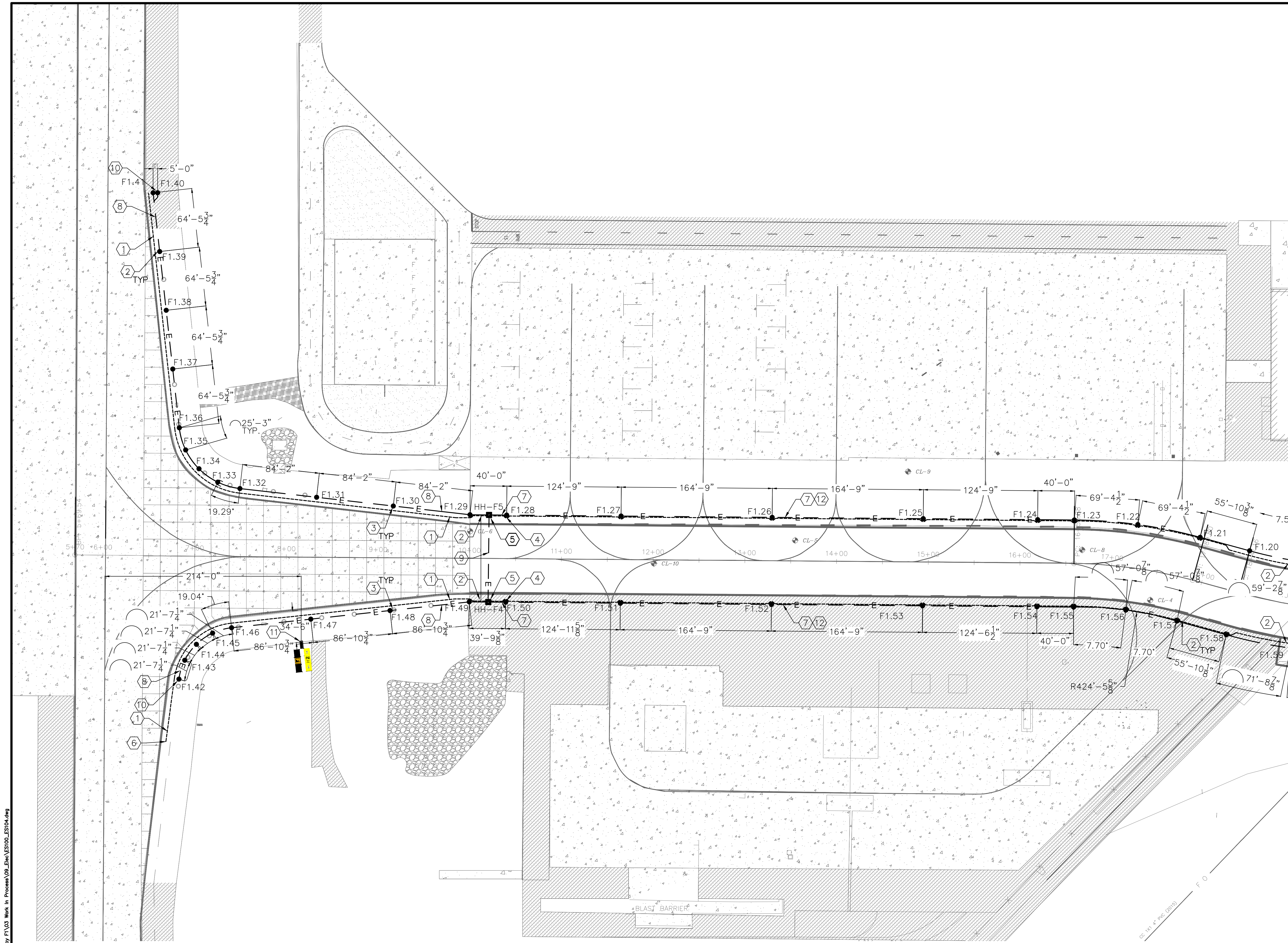
ES-102

C:\Yuma International Airport - Taxiway F-103 Work in Process\04_Elec\ES100_E102.dwg

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KEY NOTES: (X)

- #6 AWG COUNTERPOISE LOCATED HALF THE DISTANCE BETWEEN THE EDGE OF THE PCC PAVEMENT AND TAXIWAY LIGHTING SYSTEM (5'). SEE DETAILS 1/ES-503 AND 3/ES-503. PROVIDE 10' X 3/4" COPPER CLAD STEEL GROUND RODS NOT TO EXCEED EVERY 2000 FEET. EXOTHERMIC WELD COUNTERPOISE TO GROUND ROD AND PROVIDE TEST WELL ENCLOSURE WITH BOLTED COVERS AT EACH GROUND ROD. TYPICAL OF FLEXIBLE PAVEMENT LOCATION.
- #6 AWG COUNTERPOISE ABOVE DUCTS UNDER FULL STRENGTH PAVEMENT. ROUTE COUNTERPOISE AROUND LIGHT BASE 6" NOMINAL FROM BASE USING MINIMUM 12" BEND RADIUS IN WIRE. BOND LIGHT FIXTURE CANS TO COUNTERPOISE USING EXOTHERMIC WELD TO COUNTERPOISE. SEE DETAILS 2/ES-503, 3/ES-503, AND 3/ES-505.
- PROVIDE AND INSTALL RECESSED L852(L) LED TAXIWAY EDGE LIGHT FIXTURE IN SHOULDER PAVEMENT, L-868B 24" DEEP BASE AND TRANSFORMER. SEE DETAIL 1/ES-501.
- PROVIDE AND INSTALL RECESSED L852(L) LED TAXIWAY EDGE LIGHT FIXTURE IN FULL STRENGTH PAVEMENT, L-868B 24" DEEP BASE AND TRANSFORMER. SEE DETAIL 1/ES-501.
- AIRFIELD RATED PRE-CAST CONCRETE HANDHOLE AND HINGED COVER. SEE DETAIL 2/ES-505.
- ATTACH NEW COUNTERPOISE TO EXISTING. FIELD VERIFY EXACT LOCATION. CONNECT USING EXOTHERMIC WELD. SEE DETAIL 4/ES-503.
- (2) 2" SCH. 80 CONCRETE ENCASED DUCTS (1 TO FIXTURES/1 TO BYPASS) WITH #6 L-824C CONDUCTOR IN EACH. SEE DETAIL 3/ES-503 AND 3/ES-505.
- (2) 2" SCH. 80 CONCRETE ENCASED DUCTS (1 TO FIXTURES/1 TO BYPASS AS SPARE) WITH #6 L-824C CONDUCTOR IN CONDUIT CONNECTED TO FIXTURES. SEE DETAILS 3/ES-503 AND 3/ES-505.
- (2) 3" SCH. 80 CONCRETE ENCASED DUCTS WITH #6 L-824C CONDUCTOR IN EACH. BURY DUCTS A MINIMUM OF 36" BELOW FINISHED GRADE AND SLOPE TO HANDHOLES FOR DRAINAGE. SEE DETAIL 4/ES-505.
- TERMINATE BOTH 2" CONDUITS INTO END LIGHT FIXTURE BASES. LOOP CIRCUIT CONDUCTORS AT THIS LOCATION.
- NEW TAXIWAY GUIDANCE SIGN FOR INTERSECTION "TAXIWAY F1 AND TAXIWAY H2". SIGN TYPE IS DOUBLE FACE (L-858L "F1" LOCATION SIGN, L-858Y "H2" DIRECTION SIGN), SIZE 2, STYLES 2/3/5, CLASS 2, MODE 2 WITH ON/OFF SWITCH AND TWO TETHERS. PROVIDE NEW SIGN FOUNDATION, BASE CAN, TRANSFORMER, AND GROUNDING. SEE DETAIL 1/ES-504.
- PROVIDE STRUCTURAL STEEL REINFORCEMENT IN CONCRETE AT DUCTS UNDER FULL STRENGTH PAVEMENT. USE #4 BAR AT EACH CORNER AND #3 STIRRUPS AT 12" CENTERS, SEE DETAIL 3/ES-505.



N

ISSUE FOR CONSTRUCTION

TAXIWAY F-1 PARTIAL SITE PLAN
SCALE: 1:50

1
ES103

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TAXIWAY F-1 REHABILITATION
AIRFIELD LIGHTING

Nicklaus
Engineering, Inc.

1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: 4/26/2024
DATE: APM
DES. BY: DM
DRAWN BY: DM
SURVEYED BY:
JOB. No.: 023.0095
SHEET OF

ES-103

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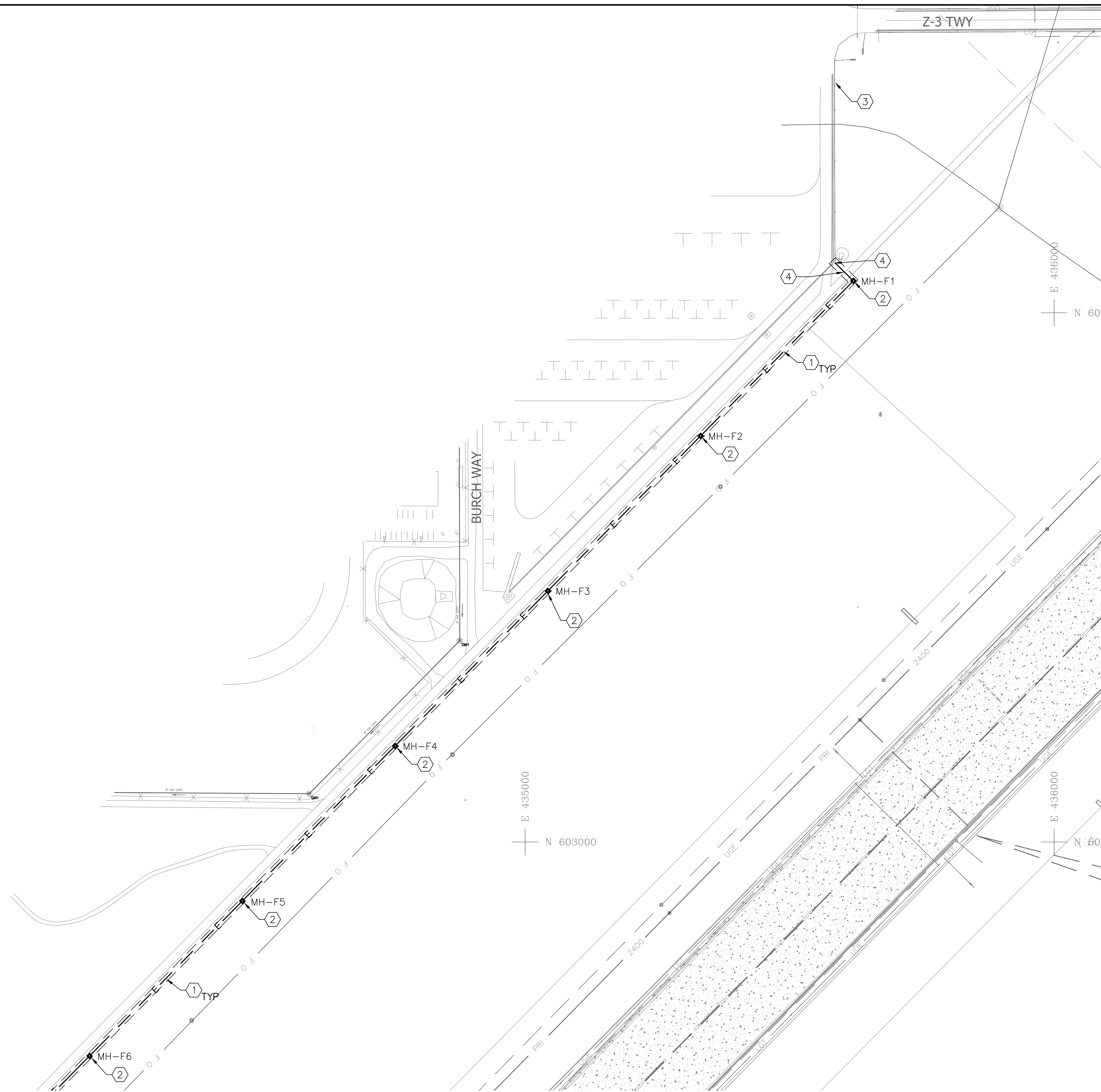
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TAXIWAY F-1 TO TAXIWAY Z PARTIAL SITE PLAN

SCALE: 1:100

1
ES104



KEY NOTES: (X)

- (2) 4" SCH. 80 PVC DUCTBANK FROM TAXIWAY F1 TO TAXIWAY Z LIGHTING CIRCUIT. BURY DUCT A MINIMUM OF 36" BELOW FINISHED GRADE. PROVIDE #6 AWG BARE COPPER COUNTERPOISE ABOVE DUCT, ROUTE (2) #8 AWG L824C CONDUCTORS TO TAXIWAY Z CIRCUIT. SEE DETAIL 4/ES-505.
- INSTALL NEW 6'x6'x7" MAINTENANCE HOLE WITH 48" BOLTED COVER. USE STAINLESS STEEL PENTAHEX BOLTS. SEE DETAIL 1/ES-505.
- EXISTING TAXIWAY Z LIGHTING CIRCUIT.
- MAKE CONNECTION AT LAST AIRFIELD LIGHTING BASE CAN. VERIFY OPENINGS IN BASE AND PROVIDE NEW BASE TO MATCH EXISTING CONDUIT OPENINGS TO MATCH EXISTING. PROVIDE 2" SCH. 40 PVC CONCRETE ENCASED CONDUIT FROM BASE CAN TO MAINTENANCE HOLE.
- SAW CUT EXISTING PAVEMENT, EXCAVATE AND INSTALL CONCRETE ENCASED DUCTBANK FROM MH-F1 TO TAXIWAY ZULU LIGHT FIXTURE BASE CAN. PROVIDE #4 STRUCTURAL STEEL REBAR AT FOUR CORNERS OF DUCTS CROSSING ROAD WITH #3 STIRRUPS AT 12" O.C. BACKFILL DUCTS AND RESTORE PAVEMENT PER CIVIL PLANS.

N

ISSUE FOR CONSTRUCTION

TAXIWAY F-1 REHABILITATION

AIRFIELD LIGHTING	SCALE: 1:100
	DATE: 4/26/2024
	DES. BY: APM
	DRAWN BY: DM
	SURVEYED BY: ---
	JOB. No.: 023.0005
	SHEET 9 OF 42

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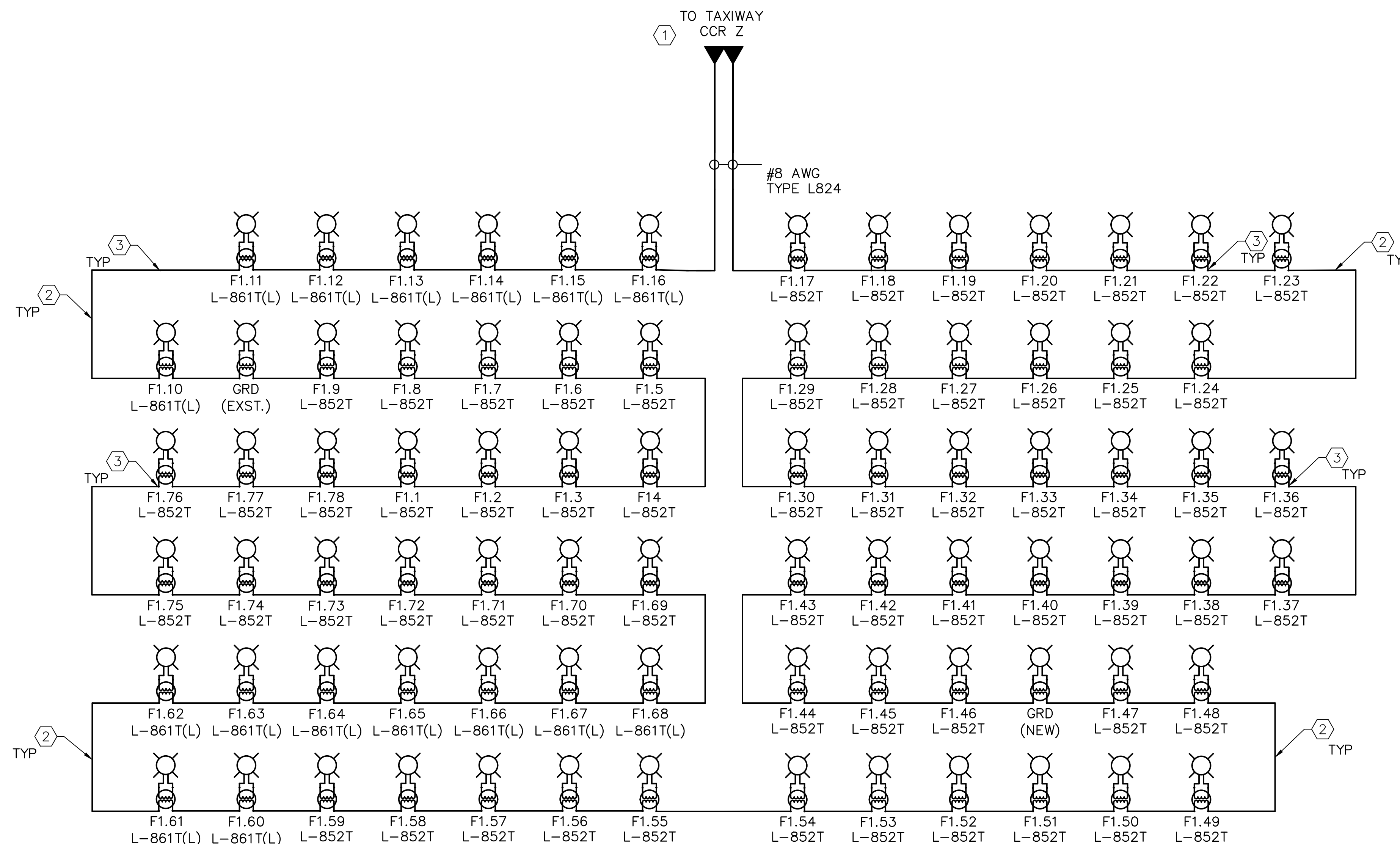
Nicklaus
Engineering, Inc.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

ES-104

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KEY NOTES: (X)

- TO PANEL "DP".
- NEW FAA L-824 TYPE C #8AWG COPPER PRIMARY CONDUCTORS AS INDICATED BY HEAVY LINE WEIGHT.
- FAA L-823/L-824 FACTORY FABRICATED SECONDARY CORD SET, TYPICAL OF ALL.



TAXIWAY F-1 ONELINE DIAGRAM

SCALE: NTS

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ES401



ISSUE FOR CONSTRUCTION

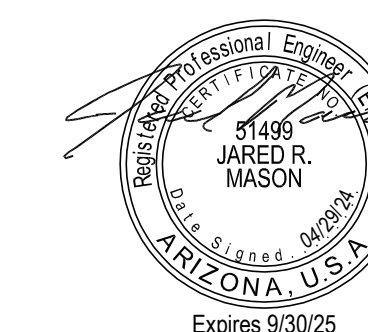
TAXIWAY F-1 REHABILITATION

ONELINE DIAGRAM

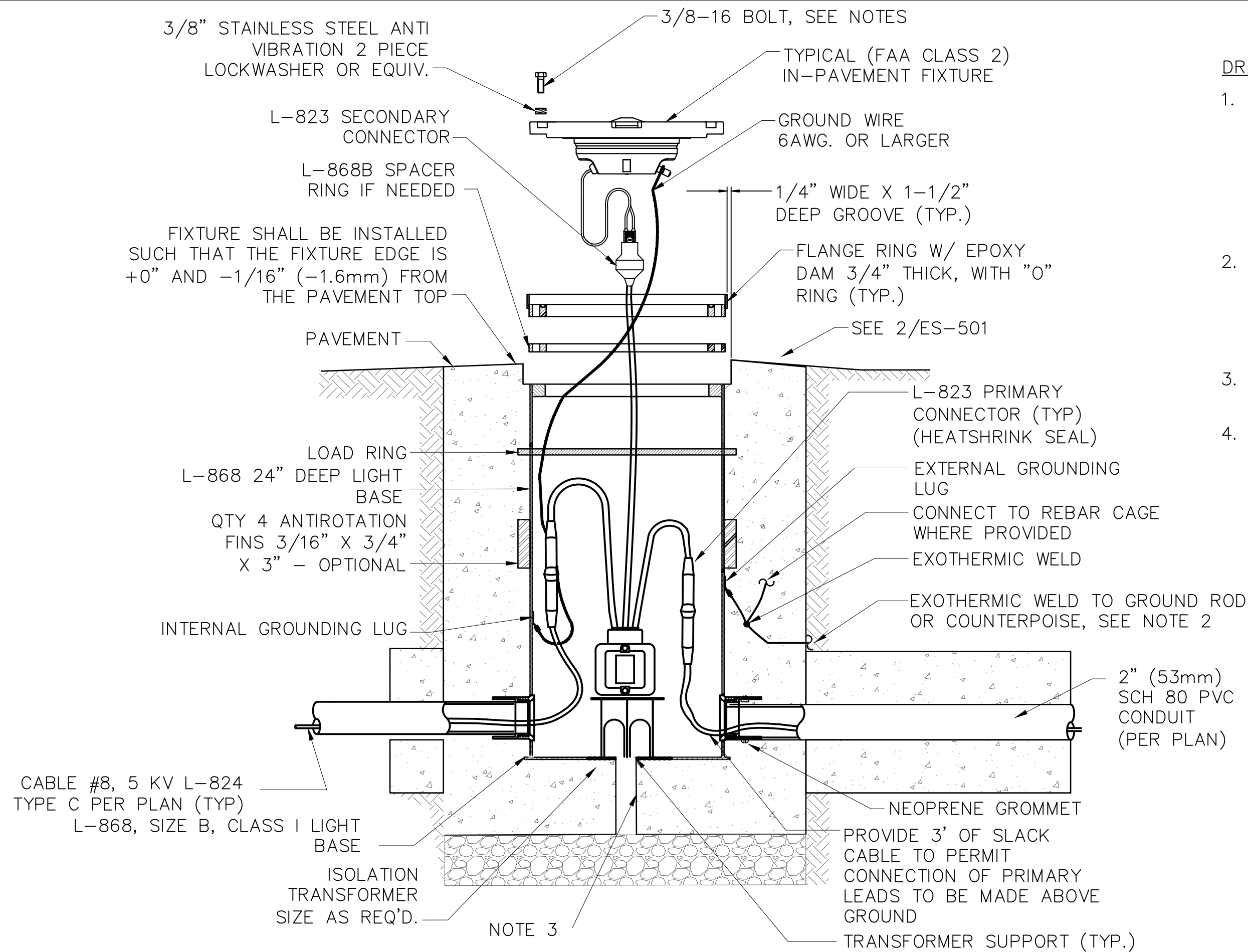
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SCALE: NTS
DATE: 4/26/2024
DES. BY: APM
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JOB. No.: 023.0005
SHEET 10 OF 42

ES-401



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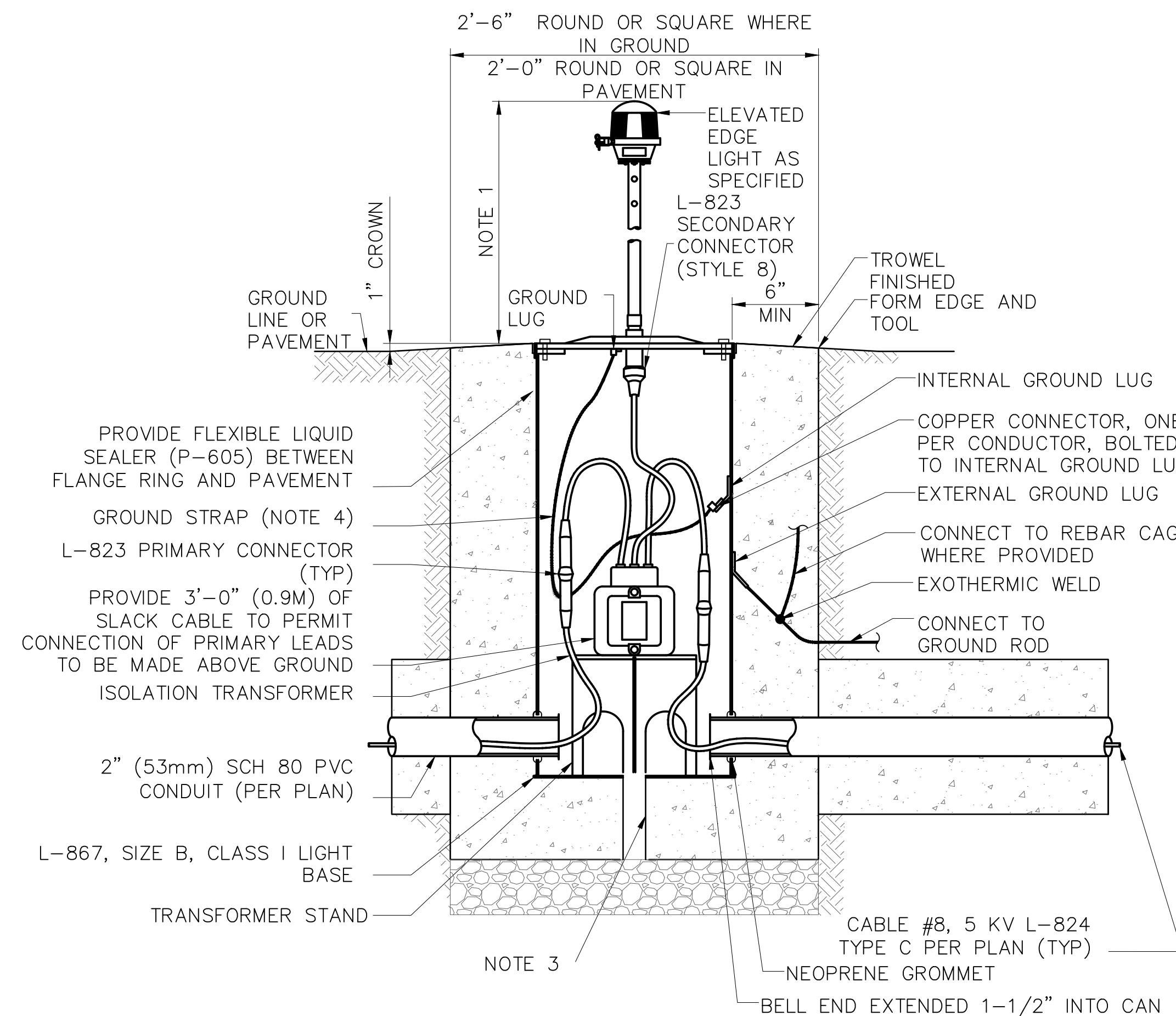
L852T(L) IN PAVEMENT LIGHT FIXTURE INSTALLATION DETAIL

SCALE: N.T.S.

1
E501

DRAWING NOTES:

1. AT FLEXIBLE PAVEMENT (SHOULDER) LOCATIONS, GROUND ROD LOCATION IS OUTSIDE THE BASE CAN ON THE SIDE OPPOSITE THE COUNTERPOISE AND CONNECTED TO THE EXTERNAL GROUND LUG.
2. AT FULL STRENGTH PAVEMENT LOCATIONS, CONNECT COUNTERPOISE TO EXTERNAL GROUNDED LUG AND REINFORCEMENT CAGE.
3. 3/4" WEEP HOLE TO 6" ABC FILL SUMP.
4. PROVIDE 48" (1200mm) BRAIDED COPPER GROUND STRAP BETWEEN LIGHT BASE CAN AND LIGHT FIXTURE. STRAP MUST BE EQUIVALENT TO NO. 6 (16mm²) CABLE.



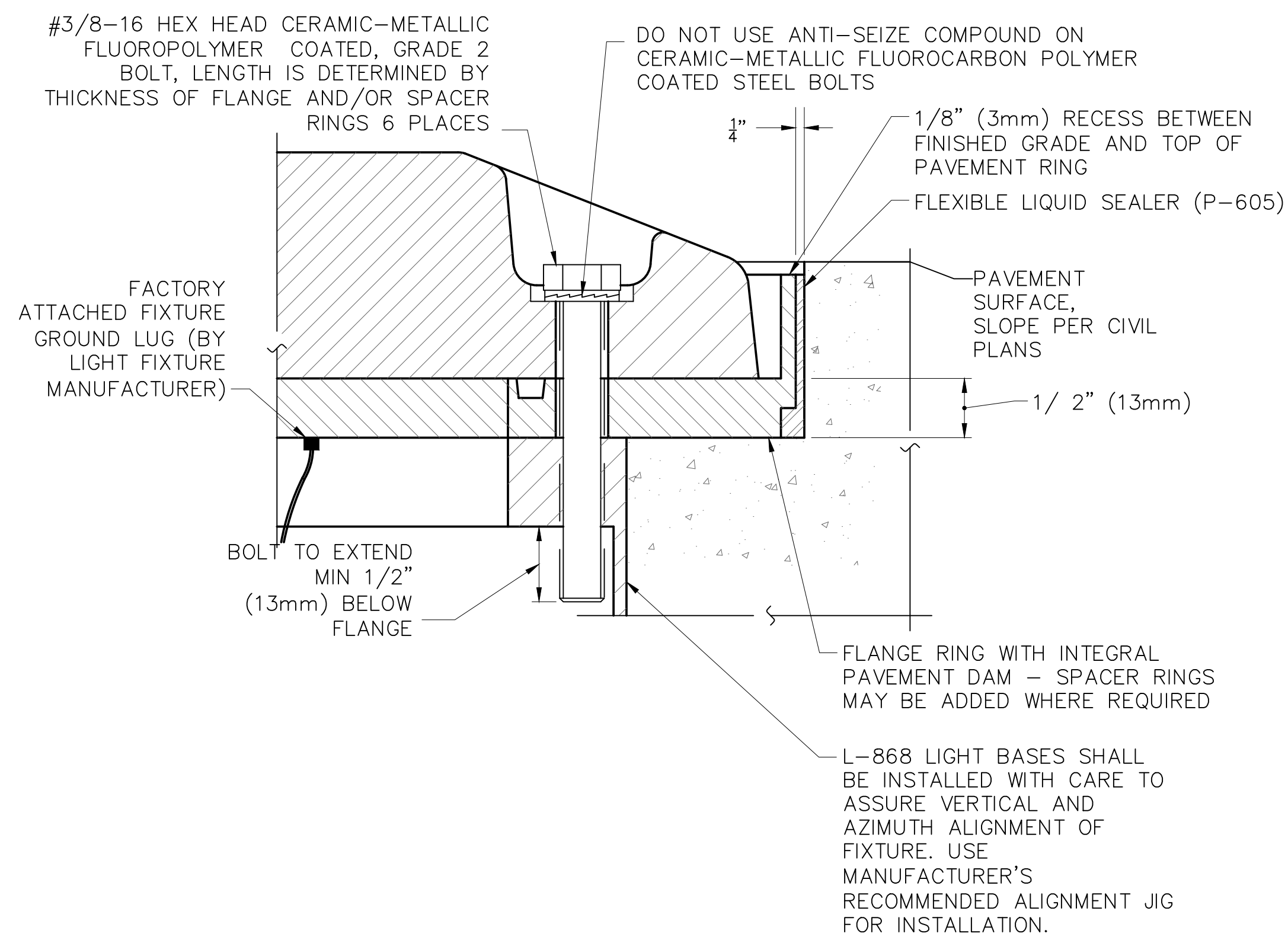
L-852T(L) ELEVATED LIGHT FIXTURE INSTALLATION DETAIL

SCALE: N.T.S.

2
E501

DRAWING NOTES:

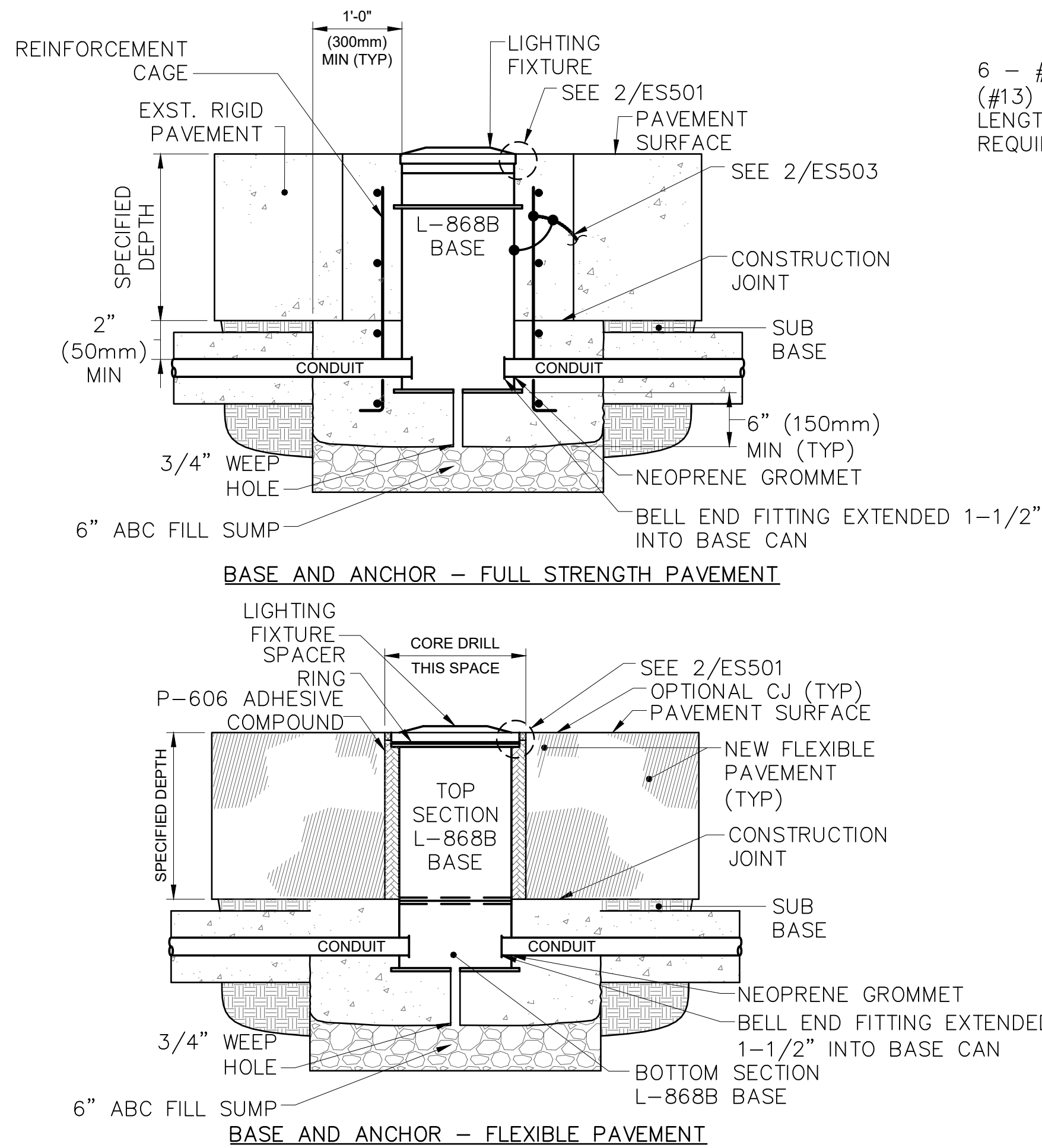
1. STANDARD HEIGHT IS 14" (350mm). HEIGHT MAY BE ADJUSTED IN AREAS SUBJECT TO SNOW CONDITIONS.
2. GROUND ROD LOCATION IS OUTSIDE THE BASE CAN ON THE SIDE ADJACENT TO THE COUNTERPOISE AND CONNECTED TO THE EXTERNAL GROUND LUG AND REINFORCEMENT CAGE. PROVIDE 12" (300mm) SEPARATION FROM COUNTERPOISE.
3. 3/4" WEEP HOLE TO 6" ABC FILL SUMP.
4. PROVIDE 48" (1200mm) BRAIDED COPPER GROUNDING STRAP EQUIVALENT TO #6AWG (16 SQUARE mm) WIRE.



L852T(L) IN PAVEMENT LIGHT DETAIL

SCALE: N.T.S.

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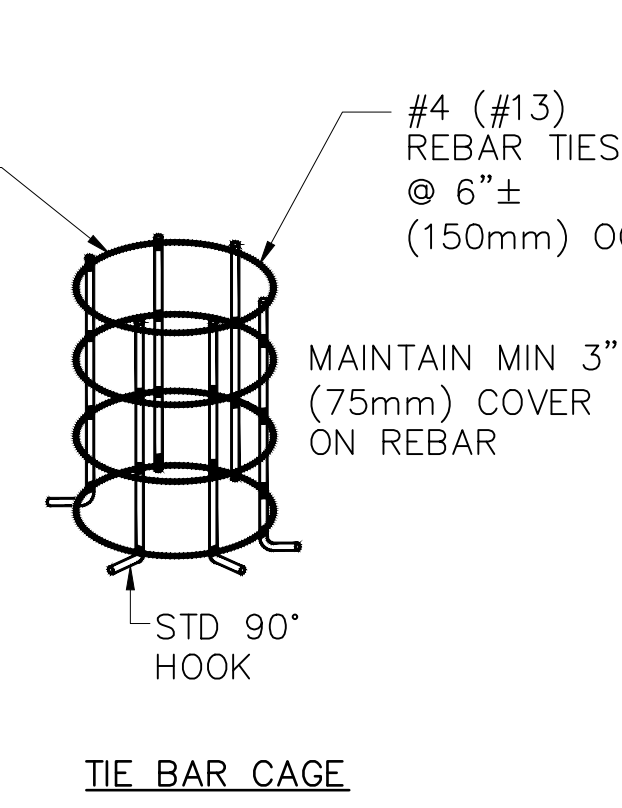
BASE AND ANCHOR DETAIL IN PAVEMENT LIGHT

SCALE: N.T.S.

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E501

DRAWING NOTES:

1. THE USE OF MUD PLATES, SPACER RINGS, EXTENSIONS, ETC., IS DEPENDENT ON PAVING TECHNIQUES.
2. ORIENTATION TOLERANCE FOR THE BASE IS ±1/2 DEGREE FROM THE CENTERLINE INDICATED ON THE PLANS.
3. CONDUIT ENTRANCE CAN BE MADE WITH EITHER A HUB OR GROMMET. IF GROMMET IS USED, CONDUITS MUST PROTRUDE INTO LIGHT BASE NOT MORE THAN 3/4" (19mm) FOR STEEL AND 1" (25mm) TO 1-1/2" (38mm) FOR PVC.



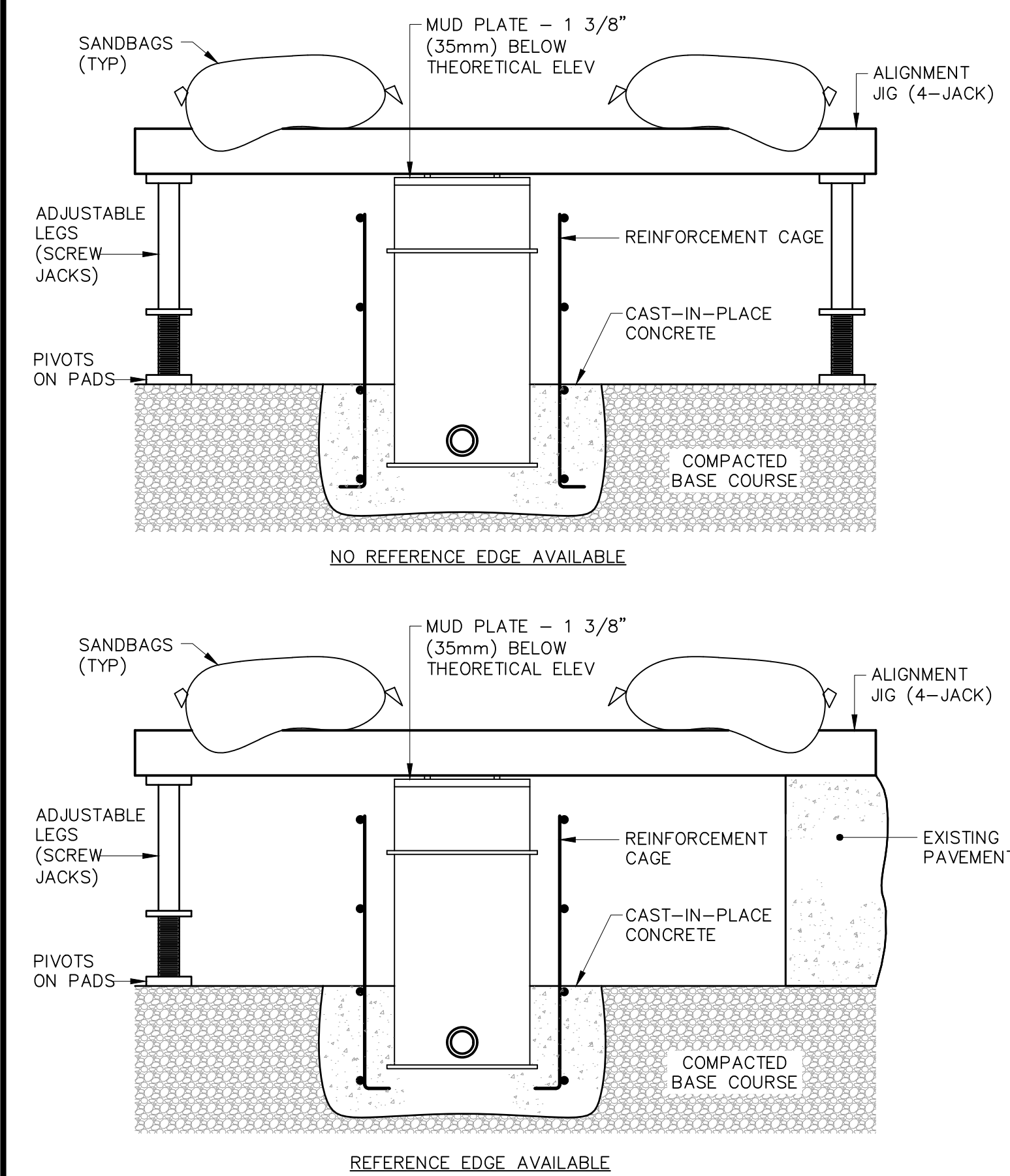
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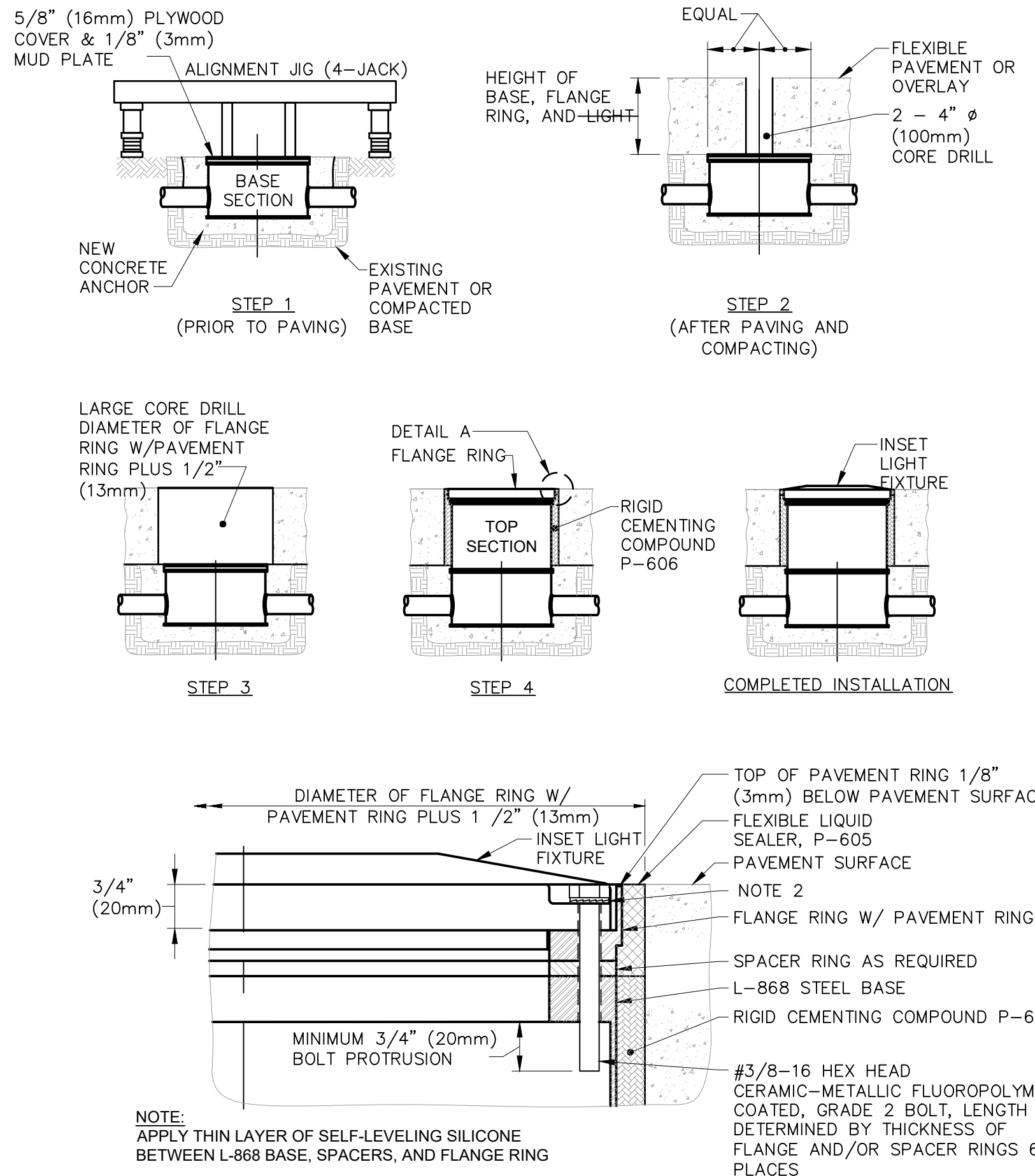
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DRAWING NOTES

1. INSTALL THE ALIGNMENT JIG PER THE BASE MANUFACTURER'S REQUIREMENTS. THE JIG SHOULD BE PROVIDED WITH ADJUSTABLE LEGS FOR SETTING ELEVATION AND ALIGNMENT PINS FOR SETTING AZIMUTH.
2. ONCE LIGHT BASES ARE SET AT CORRECT ELEVATION, CONDUIT IS INSTALLED BETWEEN THE BASES AND REINFORCEMENT CAGES ARE FORMED AROUND THE BASE. SUFFICIENT WEIGHT, SUCH AS SAND BAGS, SHOULD BE PLACED ON TOP OF THE JIG TO PREVENT THE LIGHT BASE FROM FLOATING DURING CONCRETE INSTALLATION. THE CONCRETE ANCHOR IS POURED AROUND THE BASE AND ALONG THE CONDUIT TRENCH. THE CONTRACTOR MUST ENSURE THAT ALL VOIDS OR LOOSE MATERIAL BENEATH THE CONDUIT HAVE BEEN ELIMINATED PRIOR TO ENCASING IN CONCRETE. CONCRETE SHOULD BE FLUSH WITH SUB BASE AND NOT PROTRUDE ABOVE SUB BASE.
3. ONCE THE CONCRETE HAS CURED A MINIMUM OF 24 HOURS, THE JIG MAY BE REMOVED.
4. PAVING CANNOT COMMENCE UNTIL LIGHT BASE CONCRETE ANCHOR HAS CURED FOR 3 DAYS OR REACHED A STRENGTH OF 3000 PSI.



DRAWING NOTES

1. TYPICAL INSTALLATION IN NEW FLEXIBLE PAVEMENT OR OVERLAY OF FLEXIBLE OR RIGID (PCC) PAVEMENT.
2. TWO-PIECE STAINLESS STEEL LOCKING WASHER. DO NOT USE SPLIT-RING TYPE.
3. THE BOTTOM SECTION OF THE LIGHT BASE IS SET AT AN ELEVATION SUCH THAT THE TOP OF THE PLYWOOD COVER AND MUD PLATE IS FLUSH WITH THE SURROUNDING BASE COURSE. THE CONCRETE ANCHOR IS POURED AND ALLOWED TO CURE FOR 24 HOURS.
4. THE JIG MAY THEN BE REMOVED AND PAVING OPERATIONS MAY BE ACCOMPLISHED.
5. ENSURE CORE DRILLING FOR THE LIGHT BASES IS ACCOMPLISHED AFTER COMPACTION HAS BEEN COMPLETED AND THE PAVEMENT HAS BEEN ACCEPTED BY THE OWNER.
6. RIGID CEMENTING COMPOUND P-606 IS USED TO FIRMLY SET THE TOP SECTION OR BASE EXTENSION IN PLACE AND BOND TO PAVEMENT. THE FLEXIBLE P-605 IS INSTALLED FROM THE TOP OF THE TOP SECTION OR BASE EXTENSION TO THE TOP OF THE FINISHED PAVEMENT SURFACE. THIS ALLOWS FUTURE ADJUSTMENT OF THE FIXTURE BY REMOVING OR ADDING SPACER RINGS WITHOUT DISRUPTION OF THE BASE. BOTH P-606 AND P-605 MUST BE SPECIFIED AS BEING COMPATIBLE WITH TYPE OF PAVEMENT BEING INSTALLED.

FULL STRENGTH PAVEMENT L-868 BASE INSTALLATION METHOD

SCALE: N.T.S.

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FLEXIBLE (SHOULDER) PAVEMENT L-868 BASE INSTALLATION METHOD

SCALE: N.T.S.

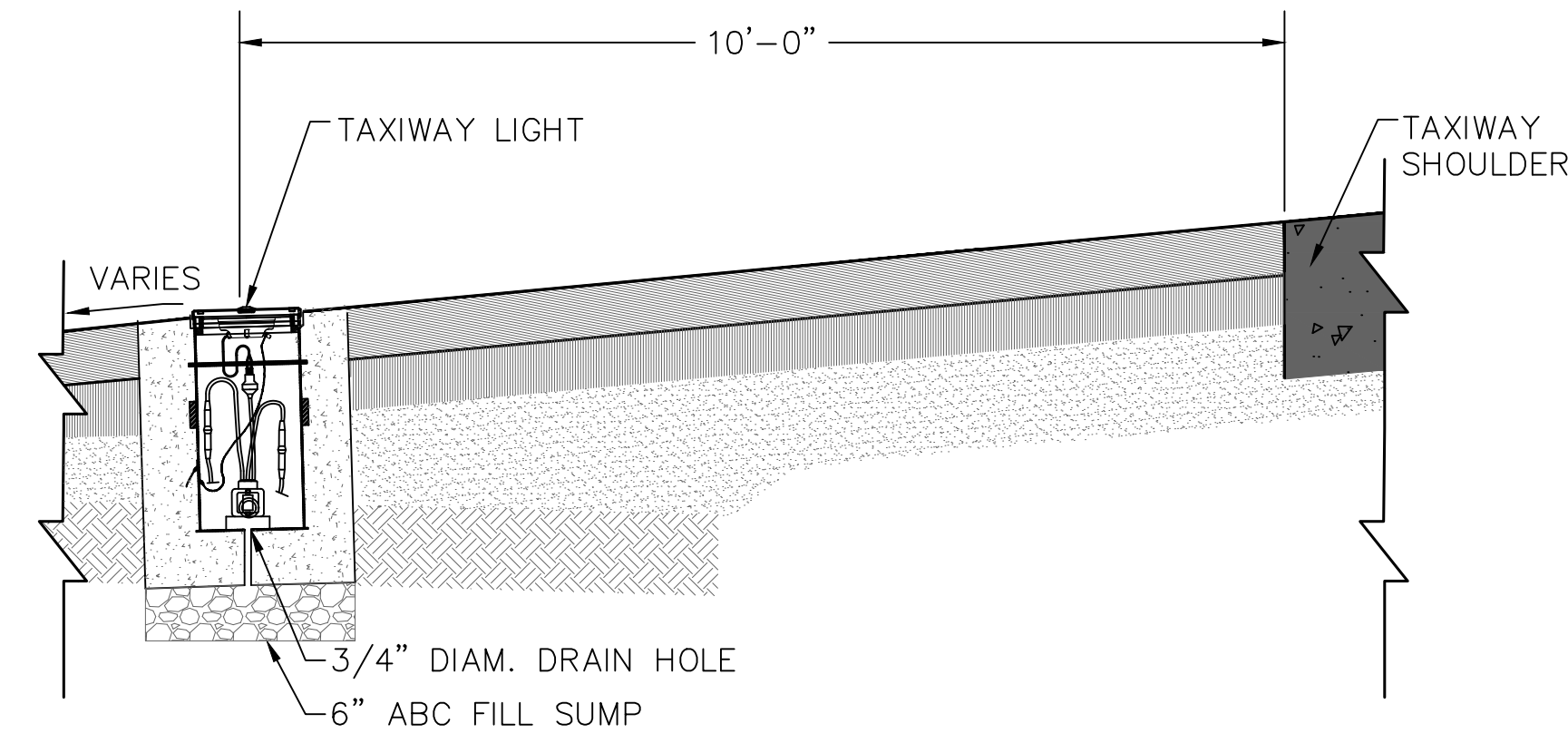
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LIGHT FIXTURE INSTALLATION TOLERANCES

IN-PAVEMENT	
ELEVATION (RELATIVE TO FINISHED PAVEMENT SURFACE FOR INPAVEMENT; RELATIVE TO FINISHED GRADE AT FIXTURE FOR ELEVATED)	+0", -1/16" (1.6MM) (FIXTURE EDGE ON LOW SIDE IN SNOW AREAS OR ON HIGH SIDE IN NON-SNOW AREAS)
AZIMUTH	±1/2 degree
LEVEL	±1/2 degree
STATIONING	+/-2' (50mm)
OFFSET	+/-1/4" (6mm)

DRAWING NOTES

1. LIGHT BASES SHALL BE INSTALLED WITH CARE TO ASSURE VERTICAL AND AZIMUTH ALIGNMENT OF FIXTURE. USE MANUFACTURER'S RECOMMENDED ALIGNMENT JIG FOR INSTALLATION.
2. PROVIDE 2' TO 3' CABLE SLACK WITHIN LIGHT BASE TO ALLOW TRANSFORMER SERVICING.
3. SEE MANUFACTURER'S RECOMMENDATION FOR BOLT AND WASHER SPECIFICATION REQUIREMENTS, RECOMMENDED LUBRICANTS, BOLT TORQUE SEQUENCE AND INSTALLATION GUIDANCE. USE BRASS BOLTS FOR TAXIWAY EDGE LIGHTING AND CERAMIC-METALLIC /FLUOROCARBON POLYMER COATED STEEL BOLT FOR THRESHOLD, END OF RUNWAY AND RUNWAY EDGE LIGHTING.
4. DO NOT USE ANTI-SEIZE COMPOUND ON CERAMIC-METALLIC FLUOROCARBON POLYMER COATED STEEL BOLTS.
5. FOR TWO-PIECE LOCKING WASHER, DO NOT USE SPLIT RING TYPE.
6. GROUND ROD LOCATION IS OUTSIDE THE BASE CAN ON THE SIDE OPPOSITE THE COUNTERPOISE AND CONNECTED TO THE EXTERNAL GROUND LUG.
7. PROVIDE 48" BRAIDED COPPER GROUND STRAP BETWEEN LIGHT BASE CAN AND LIGHT FIXTURE. WIRE MUST BE EQUIVALENT TO NO. 6 AWG CABLE.



FIXTURE INSTALLATION SECTION FLEXIBLE (SHOULDER) PAVEMENT

SCALE: N.T.S.

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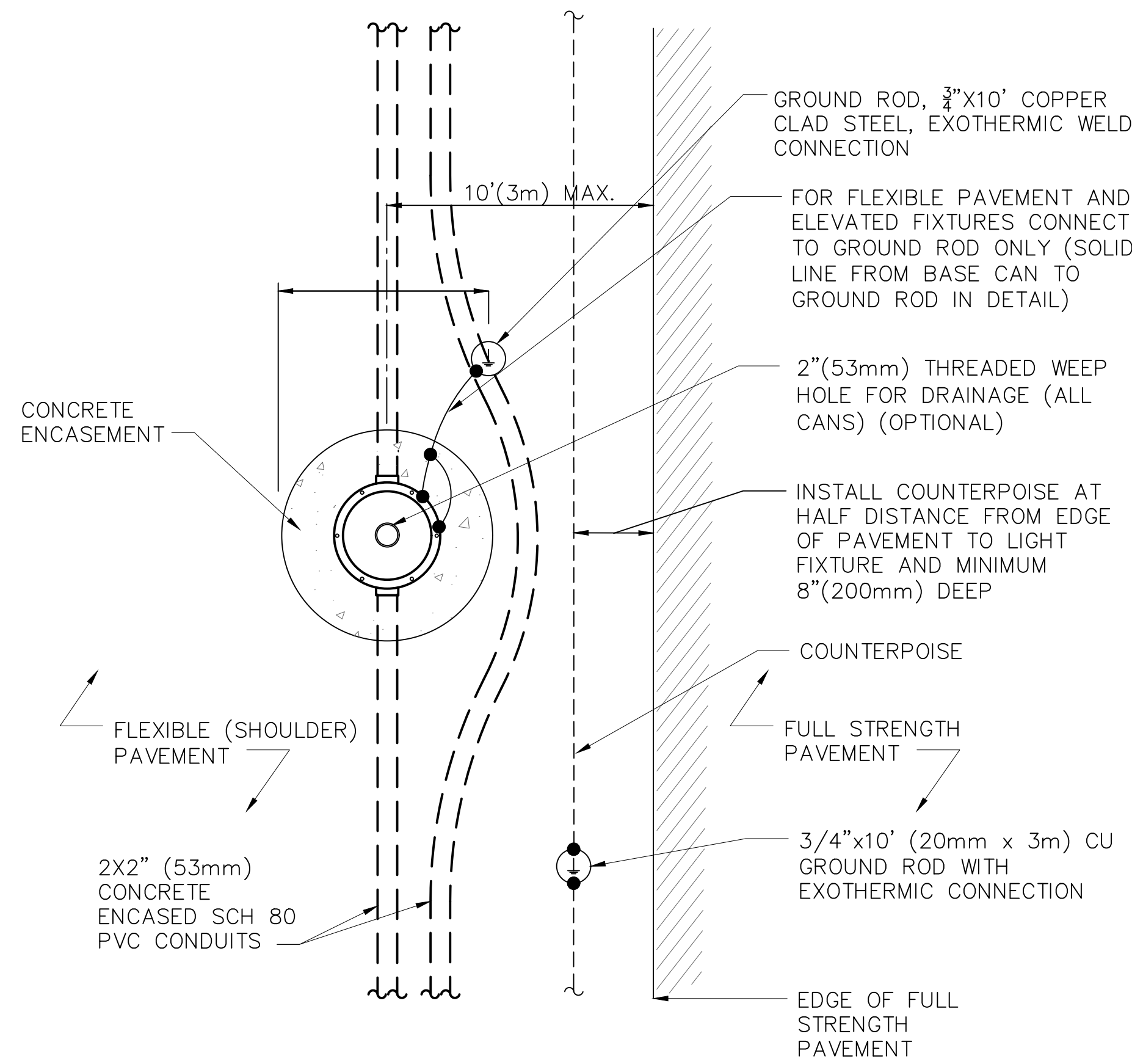
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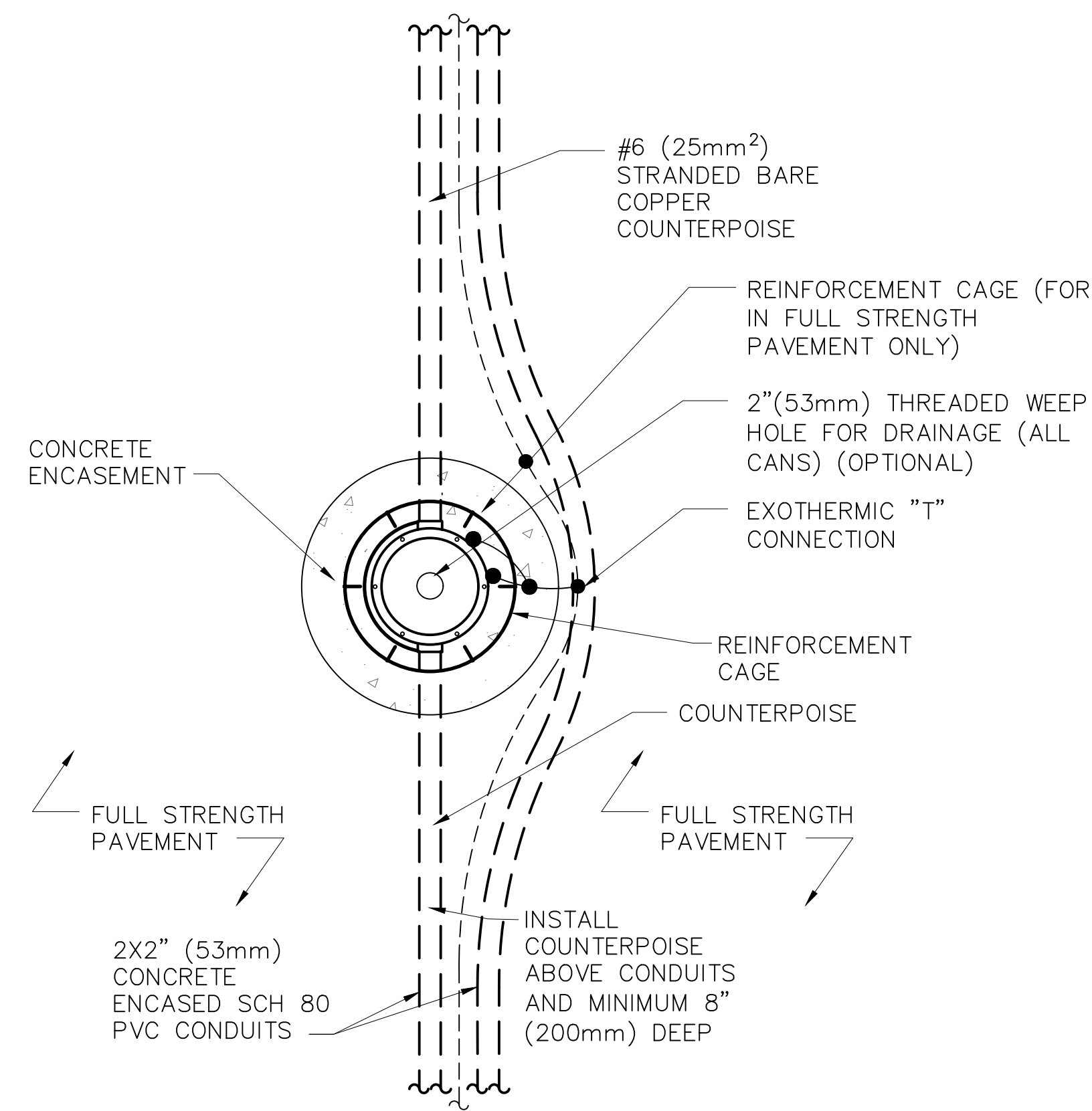
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LIGHT BASE MOUNTING
FLEXIBLE PAVEMENT (SHOULDER) DETAIL

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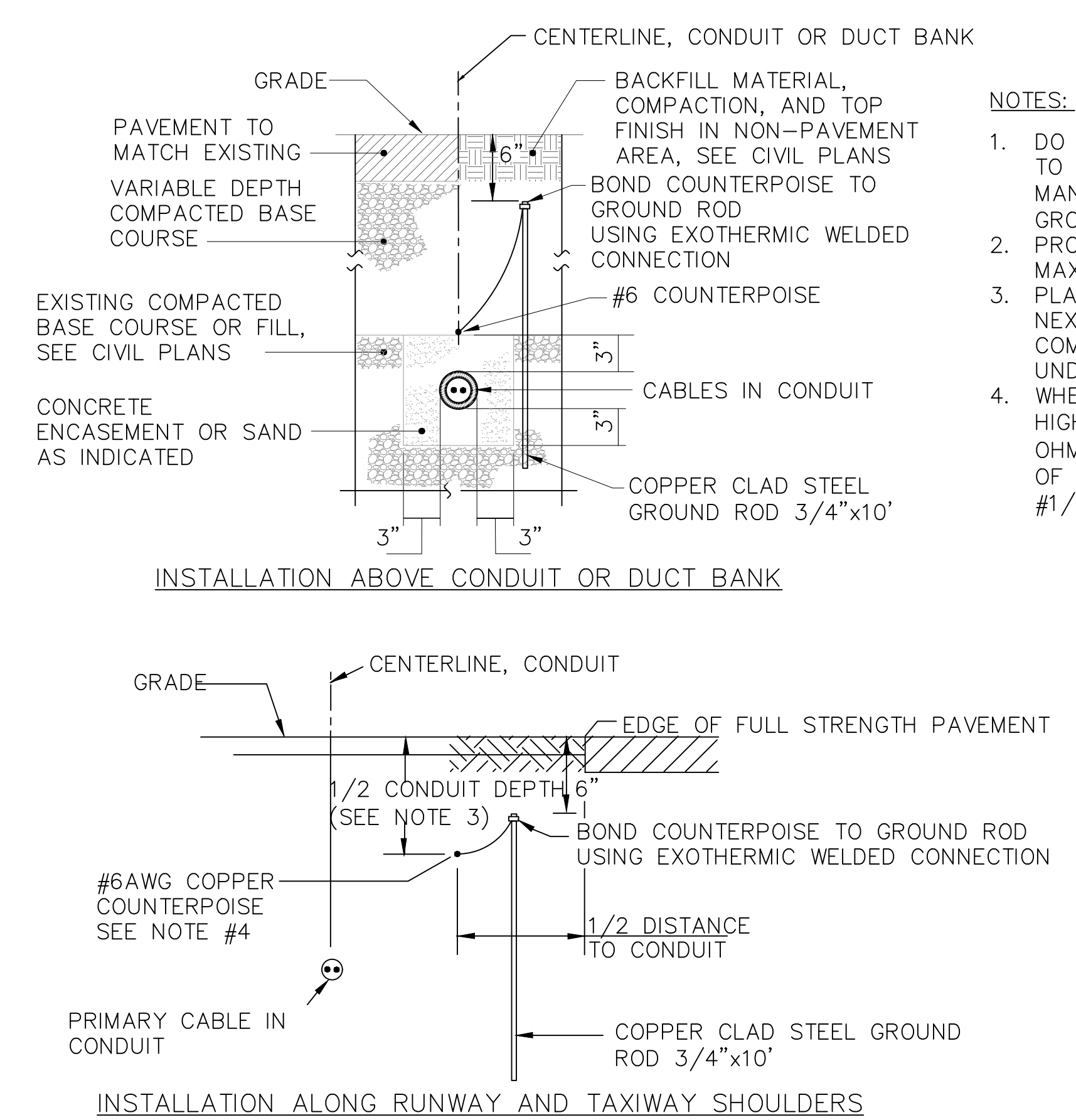
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LIGHT BASE MOUNTING
FULL STRENGTH PAVEMENT DETAIL

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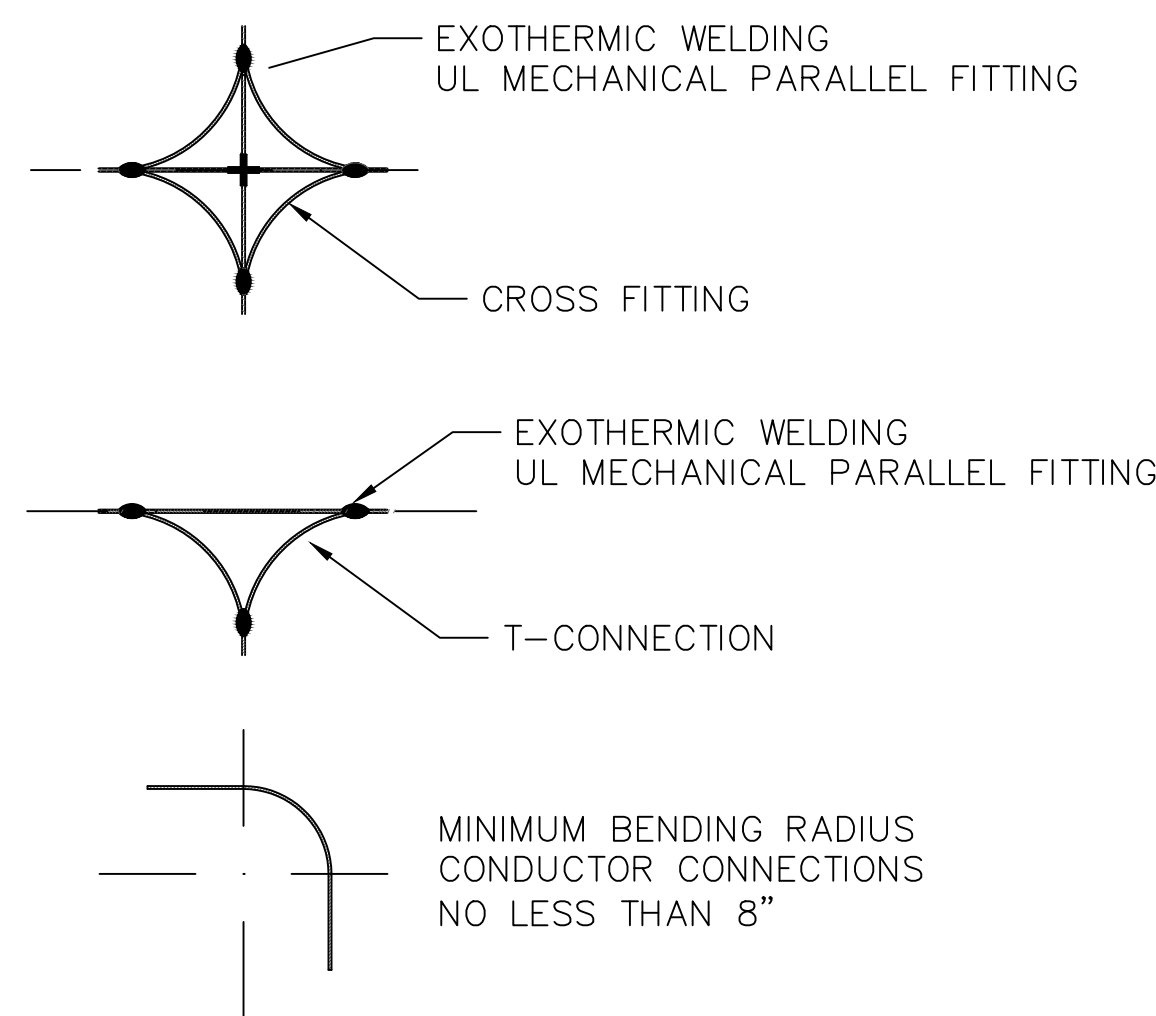


GROUND ROD INSTALLATION DETAIL
COUNTERPOISE AND

SCALE: N.T.S.

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E503

- NOTES:
- DO NOT CONNECT COUNTERPOISE TO LIGHT BASES OR MANHOLES/HANDHOLES GROUNDING COMPONENTS.
 - PROVIDE GROUND RODS SPACED MAX. 500FT.
 - PLACE COUNTERPOISE ON NEXT-TO-LAST LIFT OF COMPACTED BASE MATERIAL UNDER SHOULDER.
 - WHERE SOIL IS CONSIDERED HIGHLY CORROSIVE (<10,000 OHM-CM RESISTIVITY), THE SIZE OF THE COUNTERPOISE SHALL BE #1/0 AWG.



GROUND CONNECTION DETAILS

SCALE: N.T.S.

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TAXIWAY F-1 REHABILITATION

DETAIL

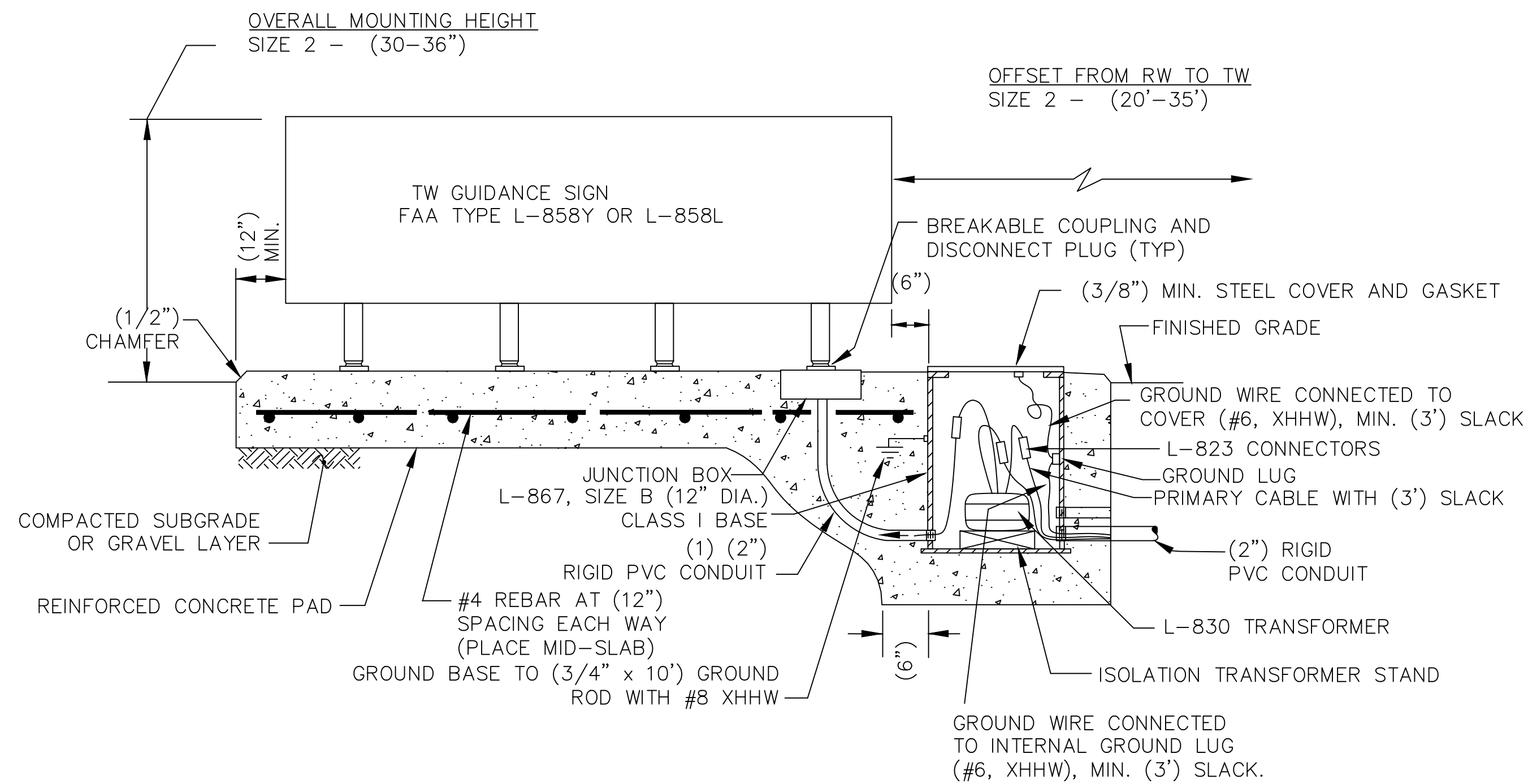
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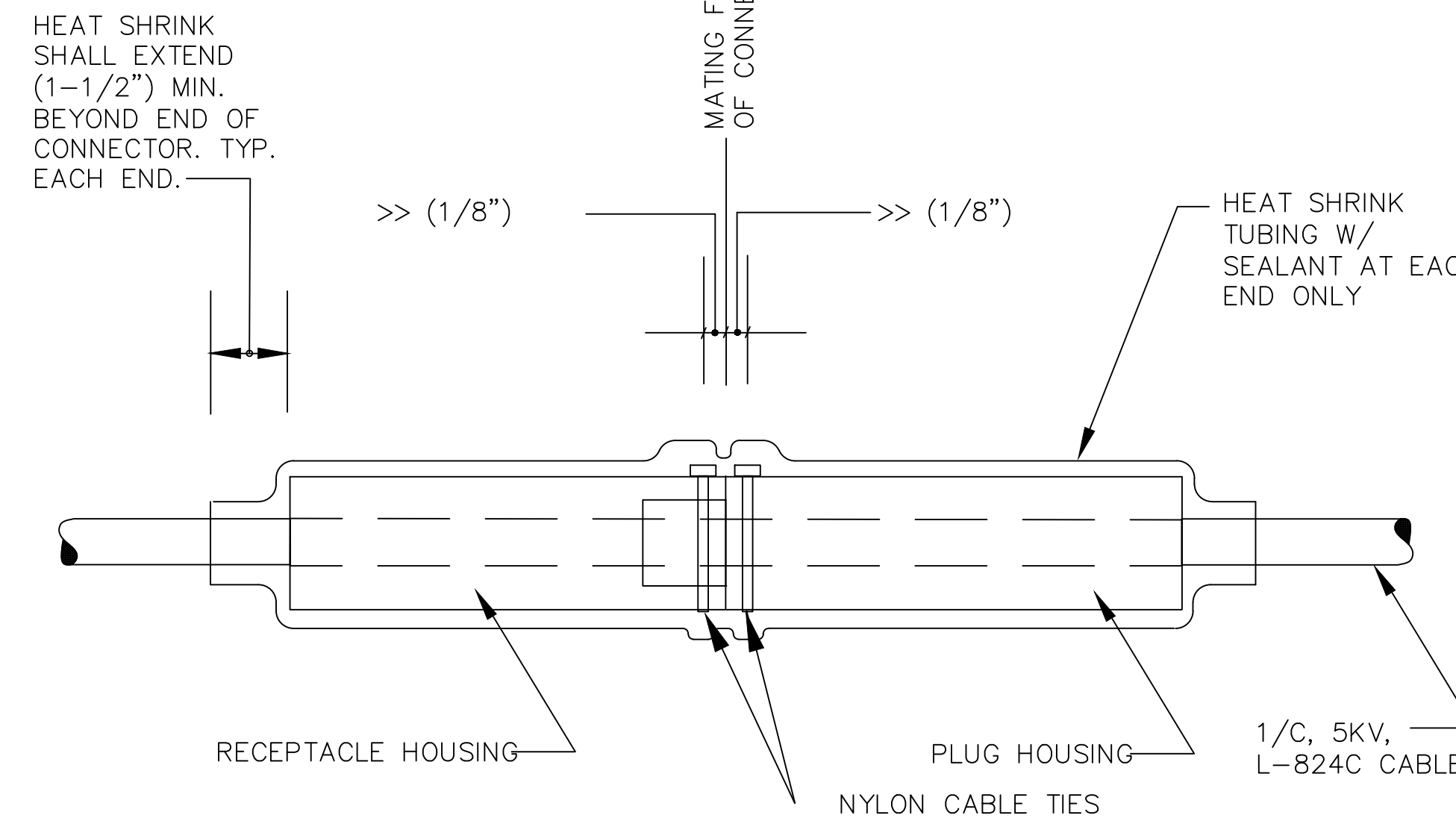
NOTES:

- SIGN SHALL MEET THE FOLLOWING CLASSIFICATIONS:
 TYPE: L858Y - DIRECTION, DESTINATION AND BOUNDARY SIGNS;
 SIZE: 2 - 24 IN. LEGEND PANEL WITH A 15 IN. LEGEND;
 STYLE: 2 - STYLE 2 -POWERED FROM A SERIES LIGHTING CIRCUIT OF 4.8 TO 6.6 AMPERES (A);
 CLASS: 1 - OPERATION FROM -40 DEGREES F (-40 DEGREES C) TO 131 DEGREES F (55 DEGREES C) ENVIRONMENT.
- DO NOT CONNECT COUNTERPOISE ABOVE CONDUIT LEADING TO SIGN TO THE BASE. CONNECT COUNTERPOISE TO SEPARATE GROUND ROD.
- FOUNDATION: THICKNESS = (12")
 WIDTH = MIN. (3'). PROVIDE (12") CLEAR ON ALL SIDES OF SIGN.
 SLOPE FOUNDATION SURFACE TO DRAIN AWAY FROM SIGN, APPROX. 2% (1/4"/FT)
- MAXIMUM OVERALL SIGN LENGTH: SIZE 2 - (145")
- PROVIDE TETHERS, MINIMUM 2 PER SIGN.
- CONSIDER (3") ASPHALT OR (4") GRAVEL STRIP, (3") WIDE AROUND FOUNDATION FOR PROTECTION FROM MOWERS.
- CONCRETE FOUNDATION SHALL BE FLUSH WITH FINISHED GRADE.

AIRFIELD GUIDANCE SIGN DETAIL

SCALE: NTS

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ES504



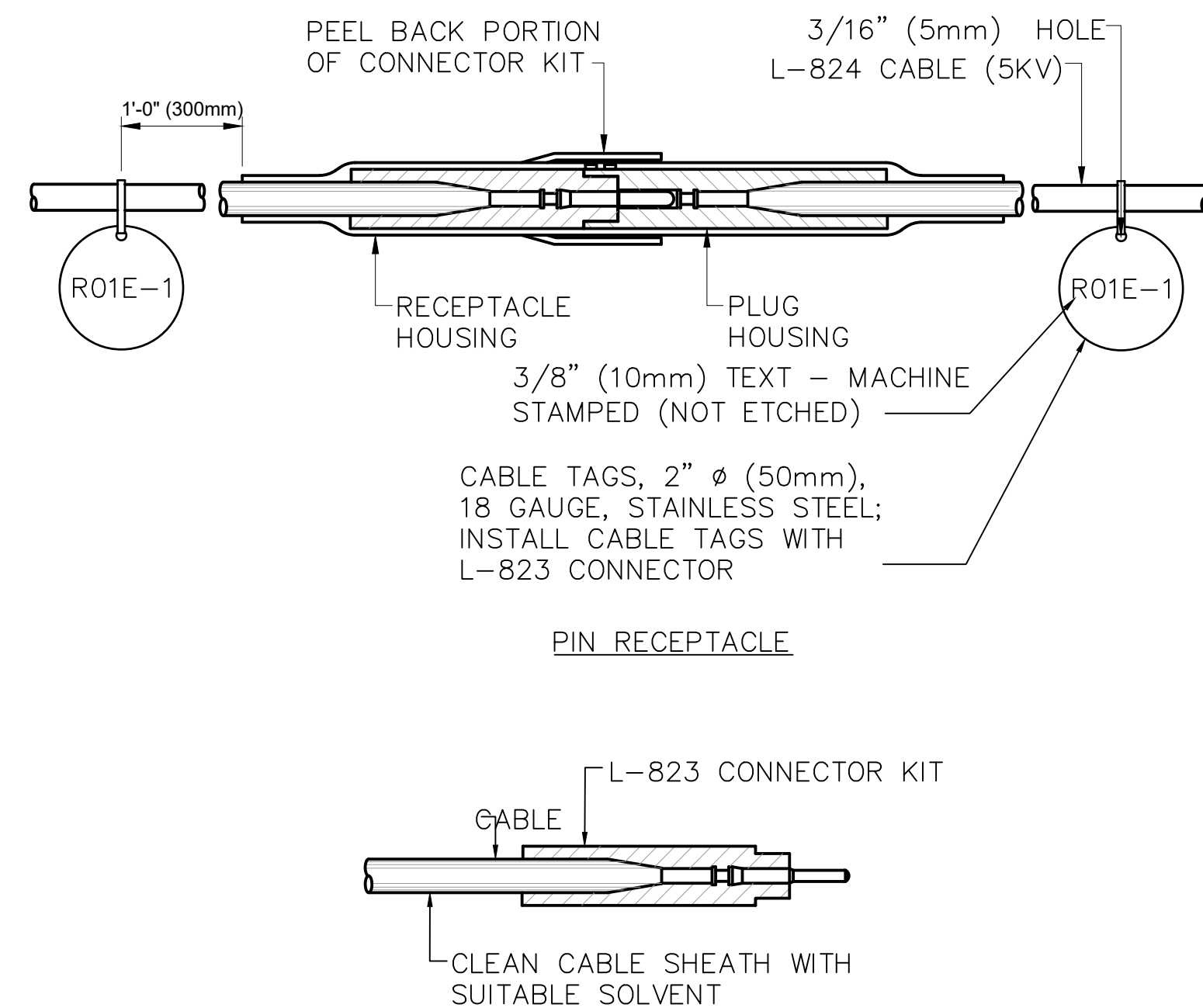
DRAWING NOTES:

- INTERIOR PIN AND SOCKETS ARE NOT SHOWN FOR CLARITY.
- ATTACH EACH CABLE TIE 1/8" FROM THE MATING FACE OF THE CONNECTOR HOUSING. TIGHTEN CABLE TIE ENOUGH TO HOLD IN PLACE WITHOUT COMPRESSING HOUSING. TRIM OFF EXCESS CABLE TIE.
- INSTALLATION OF L-823 AND HEAT SHRINK TUBING SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- INSTALLATION OF L-823 SUPER KIT SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- EACH KIT SHALL CONSIST OF A STYLE 3 (PLUG) AND STYLE 10 (RECEPTACLE) AND SHALL MEET ALL REQUIREMENTS OF FAA AC 150/5345-26C (TYPE 1, CLASS B).
- AFTER ASSEMBLY, THE CONNECTION BETWEEN THE CONNECTOR HOUSINGS (BOTH PLUG AND RECEPTACLE) AND THE CABLE MUST BE CAPABLE OF WITHSTANDING A STATIC LONGITUDINAL PULL TEST OF 50 kg. THIS SHALL BE CONFIRMED BY A PULL TEST IN WHICH THE CONNECTOR HOUSINGS SHALL BE HELD OR PULLED IN SUCH A MANNER AS NOT TO IMPART A CRIMPING OR CLAMPING ACTION TO THE CABLE AND THE CABLE SHALL BE HELD OR PULLED FROM THE CONDUCTOR ONLY (TO PREVENT SEPARATION OF THE INSULATION FROM THE REMAINDER OF THE CABLE). A FORCE OF AT LEAST 110 lb SHALL BE APPLIED AND THEN RELEASED. A CHANGE IN POSITION BETWEEN A CONNECTOR HOUSING AND THE OUTSIDE OF THE CABLE OF MORE THAN 10 mm SHALL BE CAUSE FOR REJECTION.
- EACH PLUG AND RECEPTACLE HOUSING SHALL HAVE A METAL INSERT MOLDED INTO THE RUBBER WHICH SHALL MATE WITH A CORRESPONDING PART OF THE APPROPRIATE PIN OR SOCKET TO PROVIDE A PERMANENT METAL CONNECTION BETWEEN THE HOUSING AND THE PIN OR SOCKET.
- EACH PLUG AND RECEPTACLE SHALL HAVE A PERMANENTLY MOLDED PULL OVER SLEEVE AT THE INTERFACE END, TO BE PULLED OVER COMPLETED CONNECTIONS, THUS PROVIDING A FULL SEAL AGAINST DIRT AND A SECOND SEAL AGAINST WATER ENTRY. THE SLEEVE SHALL BE REUSABLE FOR THE LIFE OF THE CONNECTOR.

FIELD ATTACHED PLUG-IN SPLICE FAA TYPE L-823

SCALE: NTS

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ES504



DRAWING NOTES:

- CONTRACTOR MUST PROVIDE CABLE CIRCUIT IDENTIFICATION MARKERS ATTACHED TO BOTH SIDES OF EACH CABLE CONNECTION.
- ATTACH CABLE IDENTIFICATION MARKERS WITH CORROSION RESISTANT MATERIAL.
- THOROUGHLY CLEAN THE CABLE PRIOR TO THE INSTALLATION OF THE L-823 CONNECTOR KIT.
- COMPLETE INSTALLATION OF THE PIN/RECEPTACLE WITH "CRIMPING" TOOL SUPPLIED OR RECOMMENDED BY THE MANUFACTURER AND DESIGNED FOR THIS SPECIFIC PURPOSE. TWO CRIMPING TOOLS MUST BE TURNED OVER TO THE GOVERNMENT UPON COMPLETION OF THE PROJECT.
- ATTACH EACH CABLE TIE ENOUGH TO HOLD IN PLACE WITHOUT COMPRESSING HOUSING. TRIM OFF EXCESS CABLE TIE.
- INSTALLATION OF COMPLETE KIT CONNECTOR MUST BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

TYPICAL L-823 CONNECTOR WITHOUT HEAT SHRINK DETAIL

SCALE: N.T.S.

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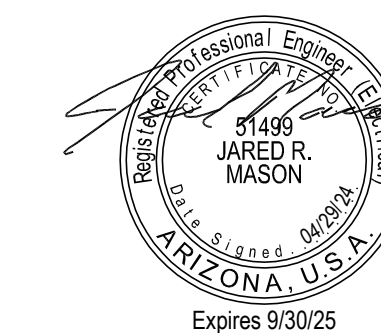
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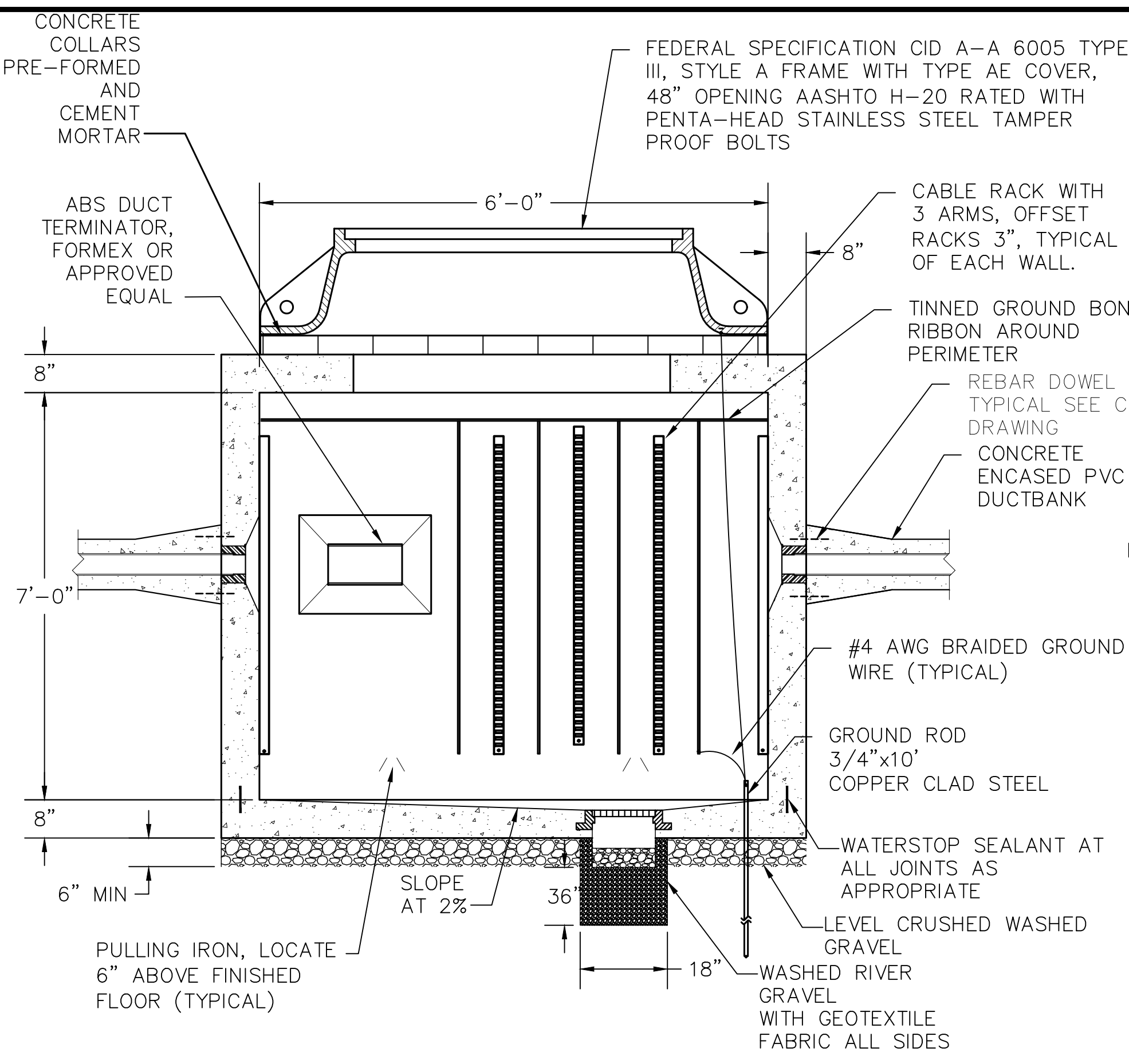
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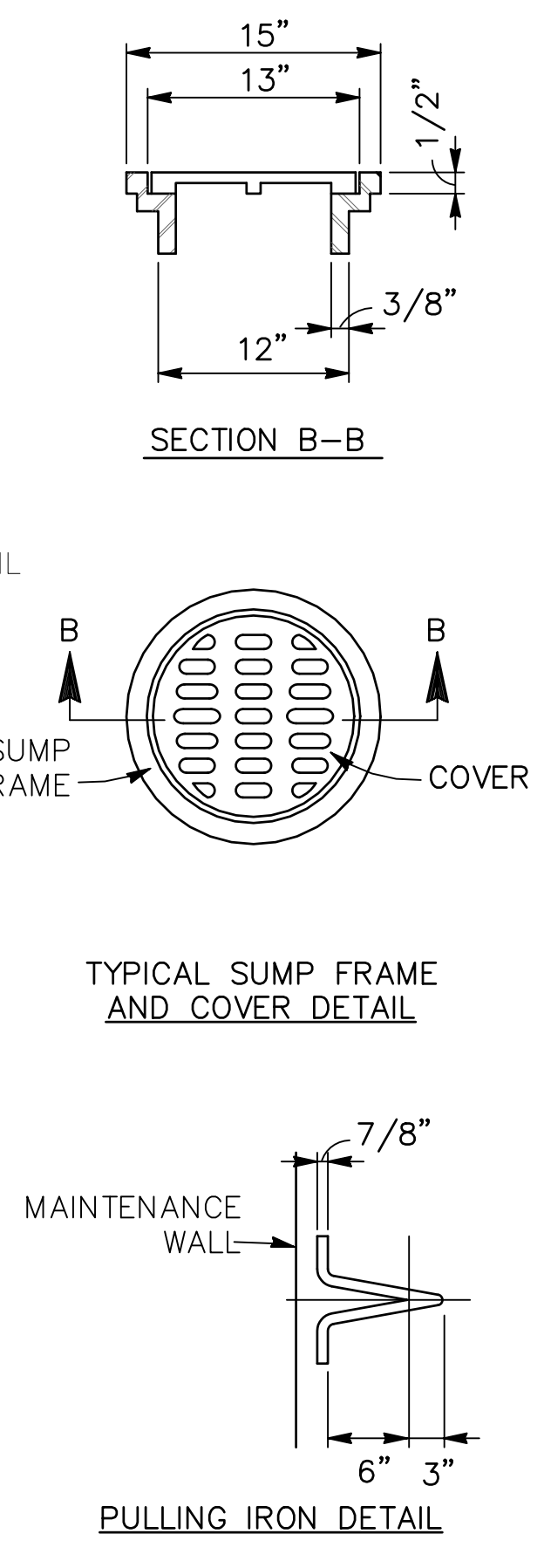
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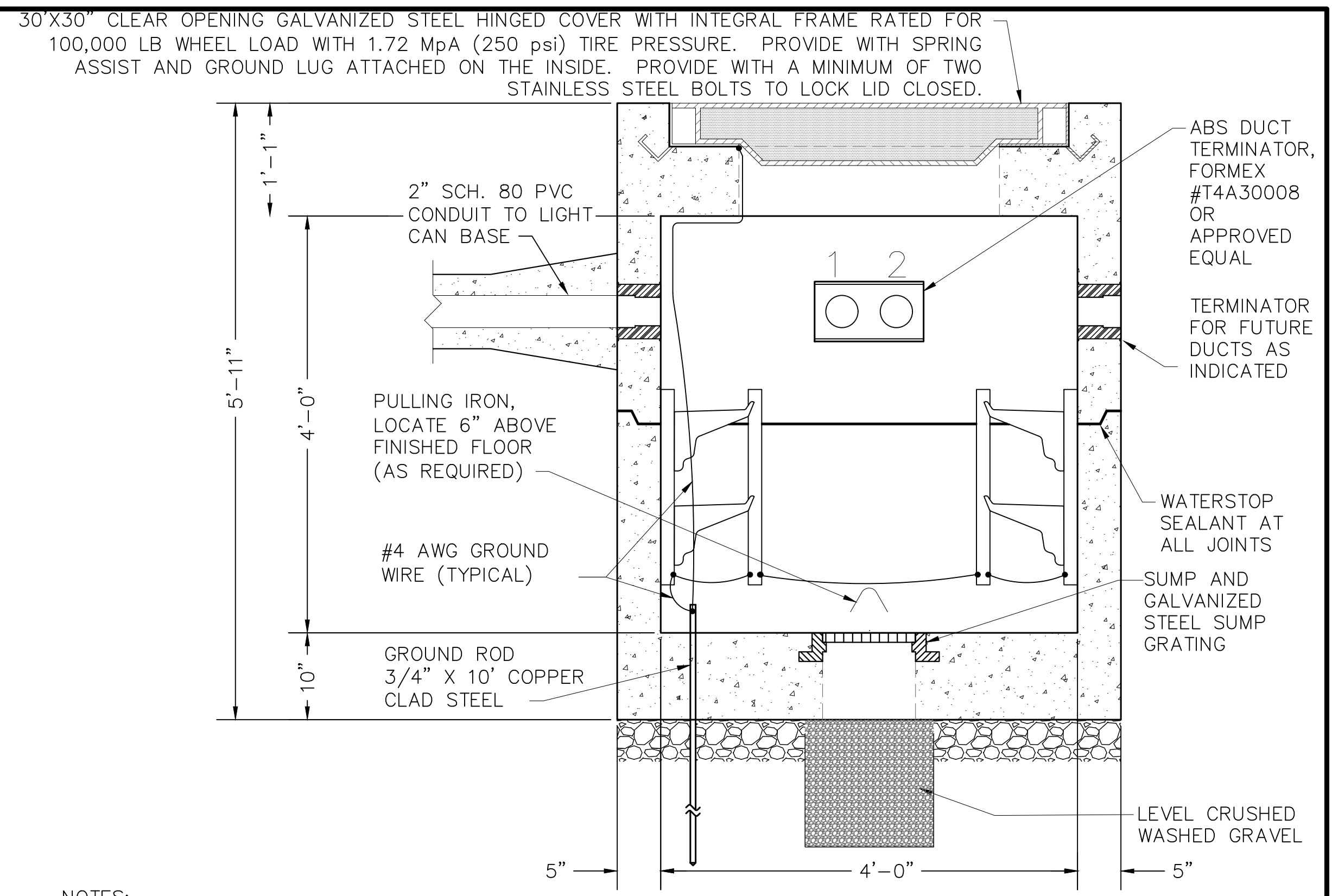


6X6X7 TRAFFIC RATED PRE-FABRICATED MANHOLE
SCALE:N.T.S.

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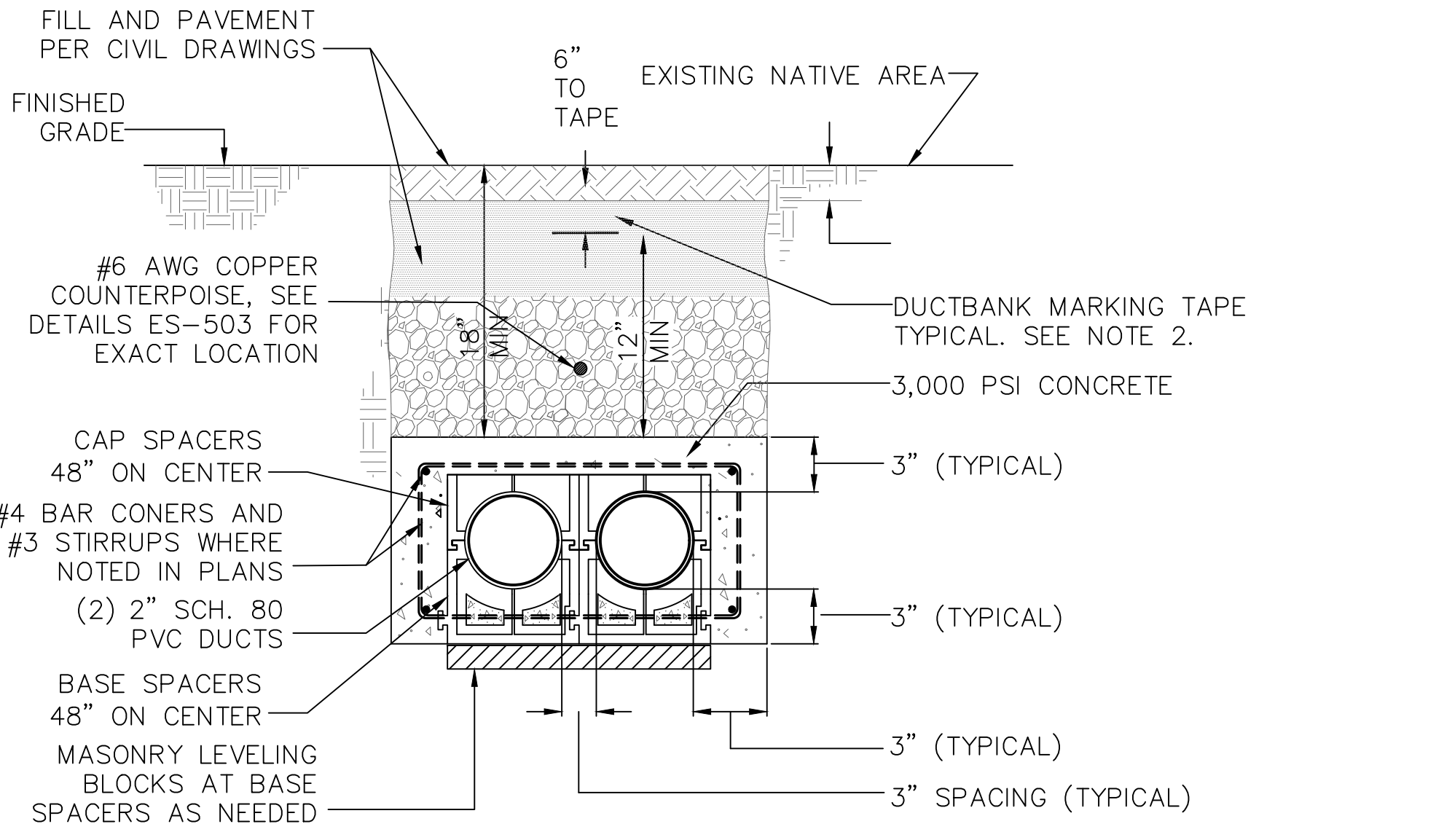
- NOTES - MAINTENANCE HOLES**
- ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.
 - REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS.
 - MAINTENANCE HOLE AND COVERS ARE DESIGNED FOR MAXIMUM WHEEL LOAD IN ACCORDANCE WITH AASHTO HS20-44.
 - WATER TABLE IS AT 3 FEET BELOW GRADE FOR STANDARD STRUCTURAL DESIGN.
 - THE STRUCTURE SHALL BE PLACED ON A COMPACTED GRANULAR BASE TO INSURE UNIFORM DISTRIBUTION OF SOIL PRESSURES.
 - PROVIDE A MINIMUM OF 4 ABS CONDUIT KNOCKOUTS AT EACH WALL AND PULLING IRONS OPPOSITE.
 - REFER TO DETAIL THIS SHEET FOR COVER HARDWARE AND FRAME, CABLE STANCHION AND PULLING IRON DETAILS.
 - PROVIDE CONCRETE SUMP IN LIEU OF DRYWELL IN LOCATIONS PRONE TO FLOODING DUE TO EXCESSIVE RUNOFF OR A MAINTENANCE HOLE LOCATED AT THE LOWEST END OF A DUCTBANK SYSTEM.
 - THE BACKFILL MEASURED FROM THE SIDE OF THE MAINTENANCE HOLE SHALL BE AT LEAST 18" OF COMPACTED, FREE DRAINING, NON-FROST SUSCEPTIBLE FILL.
 - PROVIDE TYPE "I" SUMP GRATING AND TYPE "VII" SUMP FRAME, FED SPEC A-A-60005.
 - CAST INTO COVER WITH 2" HIGH LETTERS THE FOLLOWING:
AIRFIELD LIGHTING
DANGER HIGH VOLTAGE - KEEP OUT
 - CAST REBAR IN PLACE IN THE MAINTENANCE HOLE WALL OR USE REBAR DOWELS EPOXIED INTO WALL OF MAINTENANCE HOLE AND STUBBED OUT WHERE MATING TO CONCRETE ENCASED CONDUITS IN DUCTBANK.
 - PROVIDE (2) 6" NON-METALLIC CABLE ARMS ON 18" STAINLESS STEEL STRUCTURAL CHANNEL, EACH WALL. ANCHOR CHANNEL TO WALL WITH STAINLESS STEEL FASTENERS.
 - MOUNT TOP OF MAINTENANCE 4" ABOVE EXISTING GRADE AND SLOPE OUT TO GRADE OVER A DISTANCE OF 15 FEET.



- NOTES:**
- HANDHOLES ARE TO BE REINFORCED CONCRETE.
 - CONCRETE PULL BOXES SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.
 - REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS.
 - CAST REBAR IN PLACE IN THE HANDHOLE WALL AND STUBBED OUT WHERE MATING TO CONCRETE ENCASED CONDUITS IN DUCTBANK.
 - COAT HANDHOLE EXTERIORS WITH A WATER SEALANT ON THE BOTTOM AND ALL SIDES. SEALANT MUST NOT BE PLACED ON THE HANDHOLE TOP.
 - COVER MUST BE DESIGNED FOR MAXIMUM SINGLE WHEEL LOAD OF 100,000 LBS AT 1.72 MPa (250 psi) TIRE PRESSURE.
 - THE STRUCTURE SHALL BE PLACED ON A COMPACTED GRANULAR BASE TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURES.
 - PROVIDE A MINIMUM OF 2 CONDUIT KNOCKOUTS AT EACH WALL AND PULLING IRONS OPPOSITE.
 - PROVIDE SUMP IN LIEU OF DRYWELL IN LOCATIONS PRONE TO FLOODING DUE TO EXCESSIVE RUNOFF.
 - THE BACKFILL MEASURED FROM THE SIDE OF THE MANHOLE SHALL BE AT LEAST 18" OF COMPACTED, FREE DRAINING, NON-FROST SUSCEPTIBLE FILL.
 - EACH OPENING MUST HAVE AN END BELL AND COUPLING OR, IF UNUSED, MUST HAVE A CAP OR WATERTIGHT MEMBRANE.
 - PROVIDE (2) 7.5" NON-METALLIC CABLE ARMS ON 18" STAINLESS STEEL STRUCTURAL CHANNEL, EACH WALL. ANCHOR CHANNEL TO WALL WITH STAINLESS STEEL FASTENERS.
 - PROVIDE FOR FUTURE DUCT OPENINGS ON EACH UNUSED WALL.
 - MOUNT TOP OF HANDHOLE 4" ABOVE EXISTING GRADE AND SLOPE OUT TO GRADE OVER A DISTANCE OF 15 FEET.
 - PROVIDE PRECAST HOLE IN THE FLOOR OF THE HANDHOLE FOR A GROUND ROD. GROUND ROD MUST "STUB UP" A MINIMUM OF 6" ABOVE THE HANDHOLE FLOOR. GROUND CONNECTIONS MUST BE PROVIDED TO ALL METAL EQUIPMENT IN THE HANDHOLE USING A #6 AWG BARE STRANDED COPPER CABLE. THIS INCLUDED THE METAL FRAME FOR THE HANDHOLE LID, CABLE RACKS AND ANY GROUND WIRES THAT MAY FEED THROUGH THE CONDUITS. DO NOT CONNECT COUNTERPOISE TO THIS GROUND.
 - CAST INTO COVER THE APPLICABLE FOLLOWING:
AIRFIELD LIGHTING
DANGER HIGH VOLTAGE-KEEP OUT
INSTALLED YEAR-XXXX
WHEEL LOAD RATING

4X4X4 AIRFIELD RATED PRE-FABRICATED HANDHOLE
SCALE:N.T.S.

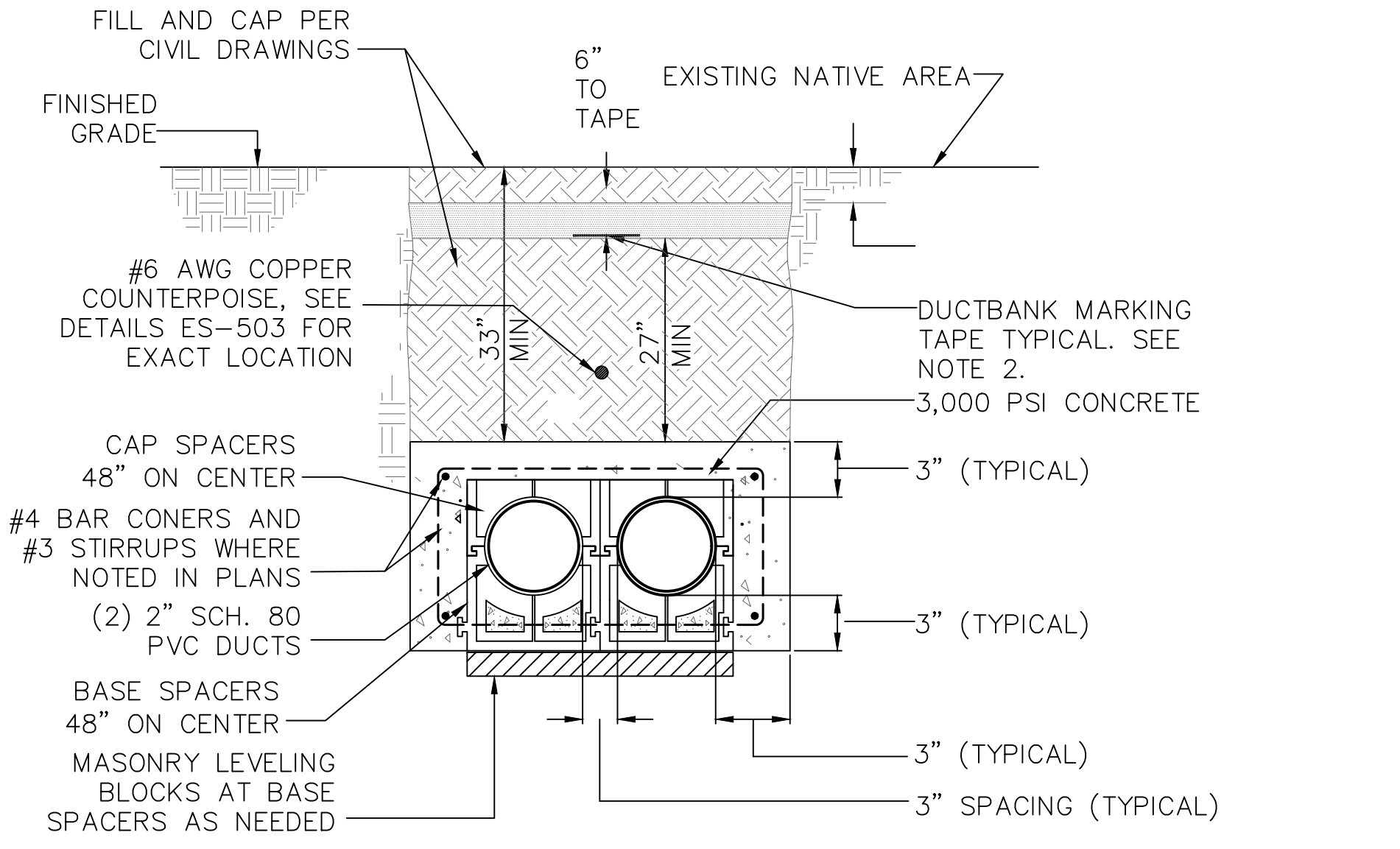
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- NOTES:**
- CONCRETE COVER ON TOP, BOTTOM AND SIDES SHALL BE 3" MINIMUM.
 - CONCRETE SHALL BE TINTED RED WITH RED IRON OXIDE PIGMENT AT 12 LBS PIGMENT TO 1 YARD CONCRETE.
 - CONCRETE PLACEMENT SHALL BE AGAINST UNDISTURBED INSITU MATERIAL. DISTURBED MATERIAL SHALL BE REPLACED WITH CRUSHER RUN MATERIAL.
 - BURIED MARKING TAPE SHALL BE 6" WIDE, HAVE A DETECTABLE METALLIC CORE, AND READ "CAUTION: BURIED ELECTRIC LINE BELOW". PRO-LINE SAFETY PRODUCTS, SETON OR APPROVED EQUAL.
 - FOR NON-METALLIC CONDUITS, TERMINATE WITH PLASTIC COUPLINGS SET FLUSH WITH END OF CONCRETE ENVELOPE AND INSTALL PLASTIC PLUGS. FOR METALLIC CONDUITS, TERMINATE WITH METALLIC COUPLINGS SET FLUSH WITH END OF CONCRETE ENVELOPE AND INSTALL WELL-GREASED PLUMBERS PLUGS OR THREADED PLASTIC PLUGS.
 - "FILL AND PAVEMENT PER CIVIL DRAWINGS" TO "MATCH AND REPLACE EXISTING PAVEMENT STRUCTURAL SECTIONS' MATERIALS AND THICKNESS NECESSARY FOR WORK, SEE CIVIL SPECIFICATIONS FOR MATERIAL DETAILS")

CONCRETE ENCASED DUCTS
SCALE:NTS

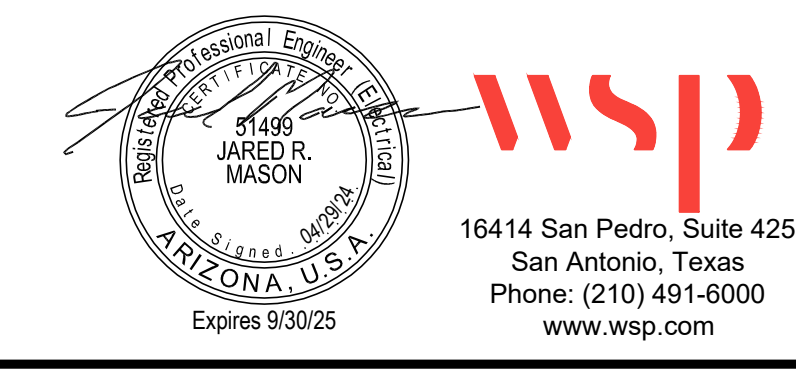
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- NOTES:**
- CONCRETE COVER ON TOP, BOTTOM AND SIDES SHALL BE 3" MINIMUM.
 - CONCRETE SHALL BE TINTED RED WITH RED IRON OXIDE PIGMENT AT 12 LBS PIGMENT TO 1 YARD CONCRETE.
 - CONCRETE PLACEMENT SHALL BE AGAINST UNDISTURBED INSITU MATERIAL. DISTURBED MATERIAL SHALL BE REPLACED WITH CRUSHER RUN MATERIAL.
 - BURIED MARKING TAPE SHALL BE 6" WIDE, HAVE A DETECTABLE METALLIC CORE, AND READ "CAUTION: BURIED ELECTRIC LINE BELOW". PRO-LINE SAFETY PRODUCTS, SETON OR APPROVED EQUAL.
 - FOR NON-METALLIC CONDUITS, TERMINATE WITH PLASTIC COUPLINGS SET FLUSH WITH END OF CONCRETE ENVELOPE AND INSTALL PLASTIC PLUGS. FOR METALLIC CONDUITS, TERMINATE WITH METALLIC COUPLINGS SET FLUSH WITH END OF CONCRETE ENVELOPE AND INSTALL WELL-GREASED PLUMBERS PLUGS OR THREADED PLASTIC PLUGS.

CONCRETE ENCASED DUCT BANK DETAILS-UNPAVED AREAS
SCALE:NTS

4
ES505



TAXIWAY F-1 REHABILITATION

DETAIL

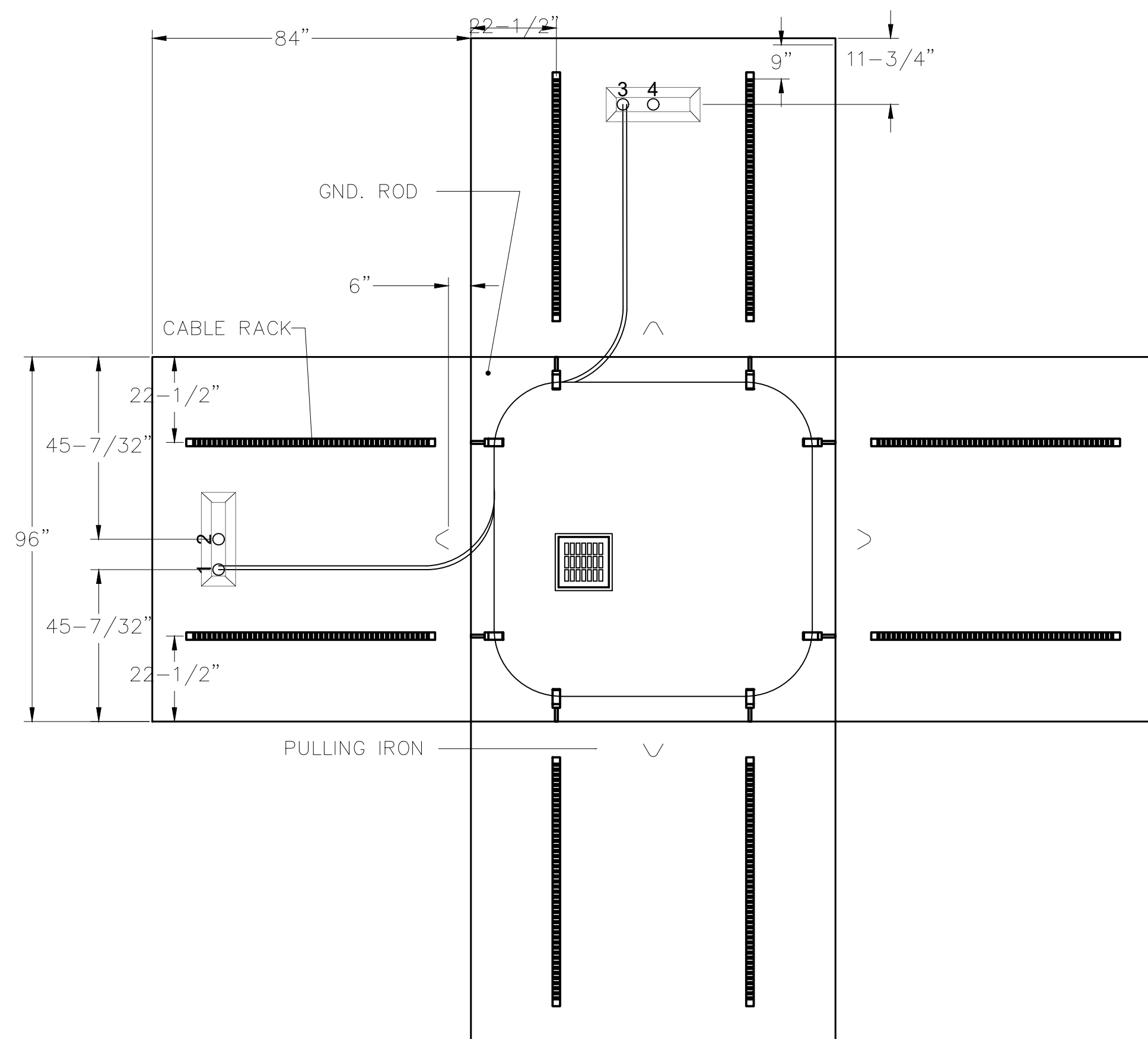
Nicklaus Engineering, Inc.
1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

SCALE: NTS
DATE: 4/26/2024
DES. BY: APM
DRAWN BY: DM
SURVEYED BY: ---
JOB No.: 023.0005
SHEET 15 OF 41

ES-505

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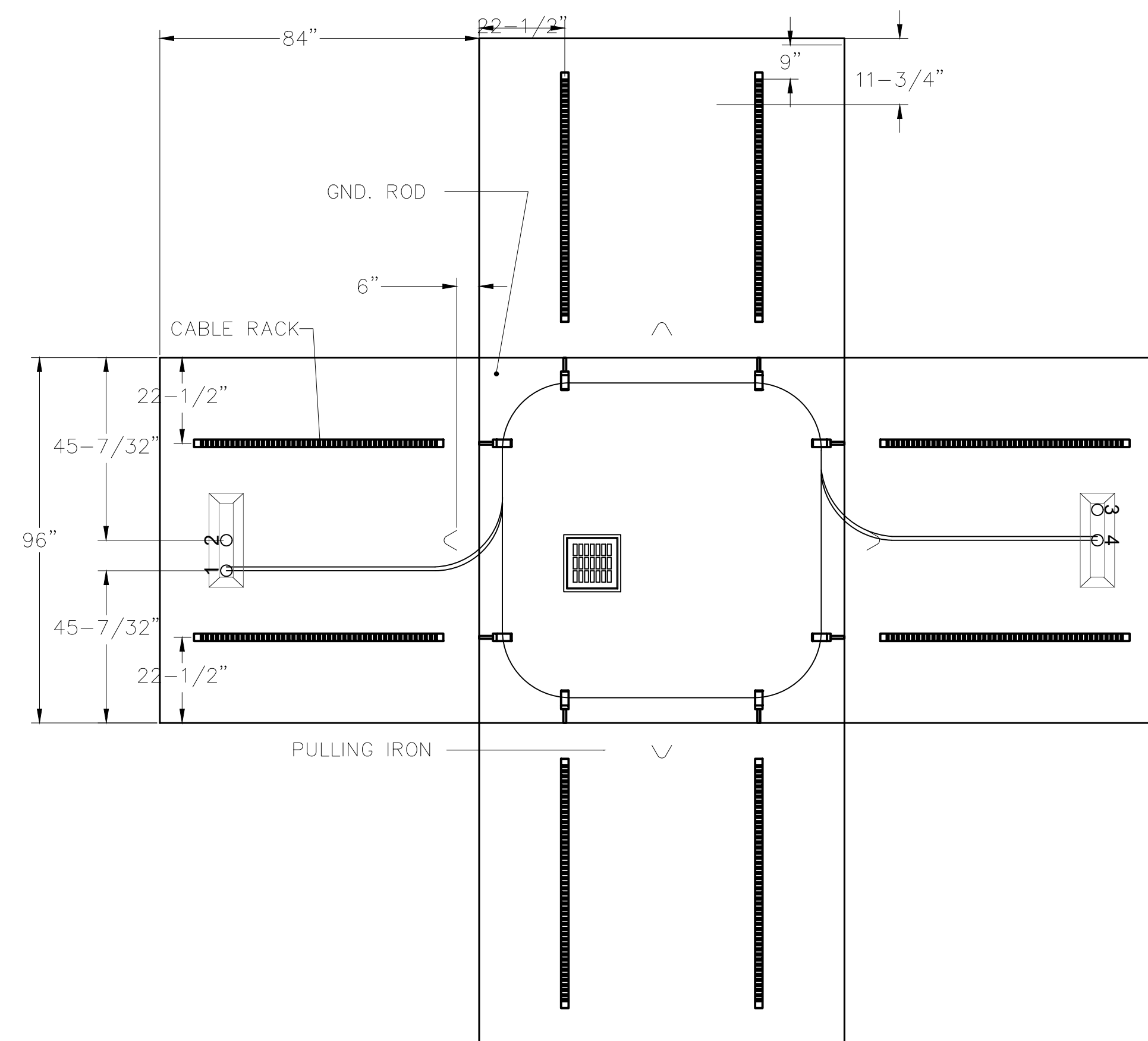
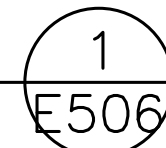
MH-F1

LOCATION: MH-F1

NO.	CONDUIT	CABLE
1	4"	CCR#Z,F1-#8-L824C-A, CCR#Z,F1-#8-L824C-B
2	4"	---
3	4"	CCR#Z,F1-#8-L824-A, CCR#Z,F1-#8-L824C-B
4	4"	---

MANHOLE MH-F1 CABLE
INSTALLATION FOLD DOWN DIAGRAM

SCALE: N.T.S.



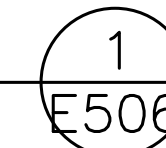
MH-F2 THRU MH-F9

LOCATION: MH-F2 THRU MH-F9

NO.	CONDUIT	CABLE
1	4"	CCR#Z,F1-#8-L824C-A, CCR#Z,F1-#8-L824C-B
2	4"	---
3	4"	---
4	4"	CCR#Z,F1-#8-L824-A, CCR#Z,F1-#8-L824C-B

MANHOLE MH-F2 THRU MH-F9 CABLE
INSTALLATION FOLD DOWN DIAGRAM

SCALE: N.T.S.



ISSUE FOR CONSTRUCTION

TAXIWAY F-1 REHABILITATION

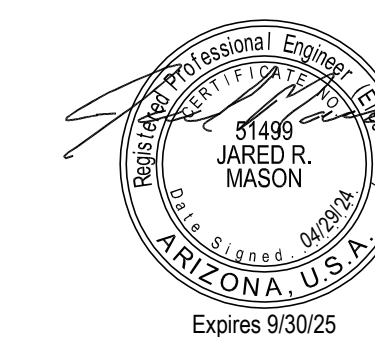
DETAIL

Nicklaus
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SCALE:	NTS
DATE:	4/26/2024
DES. BY:	APM
DRAWN BY:	DM
SURVEYED BY:	---
JOB. No.:	023.0005
SHEET	16 OF 41

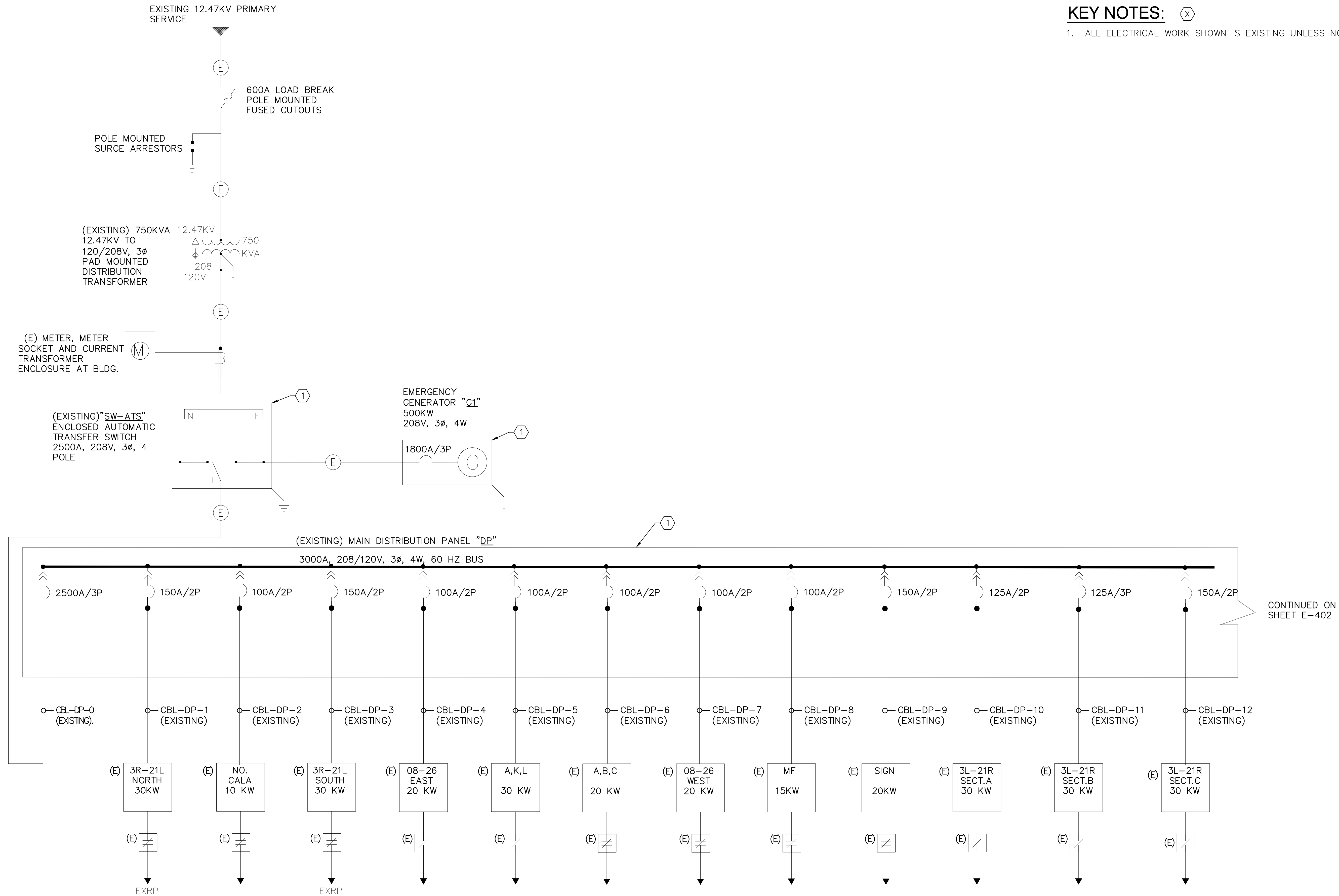
ES-506



wsp
16414 San Pedro, Suite 425
San Antonio, Texas
Phone: (210) 491-6000
www.wsp.com

KEY NOTES: (X)

1. ALL ELECTRICAL WORK SHOWN IS EXISTING UNLESS NOTED OTHERWISE.



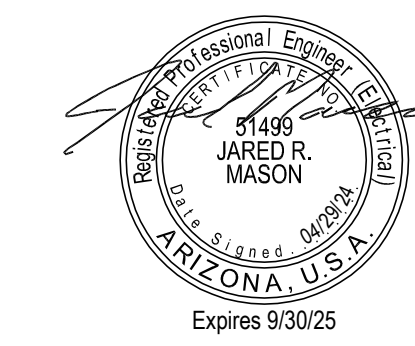
CONTINUED ON SHEET E-402

ISSUE FOR CONSTRUCTION

TAXIWAY F-1 ONELINE DIAGRAM

SCALE: NTS

1
E401



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TAXIWAY F-1 REHABILITATION

ONELINE DIAGRAM

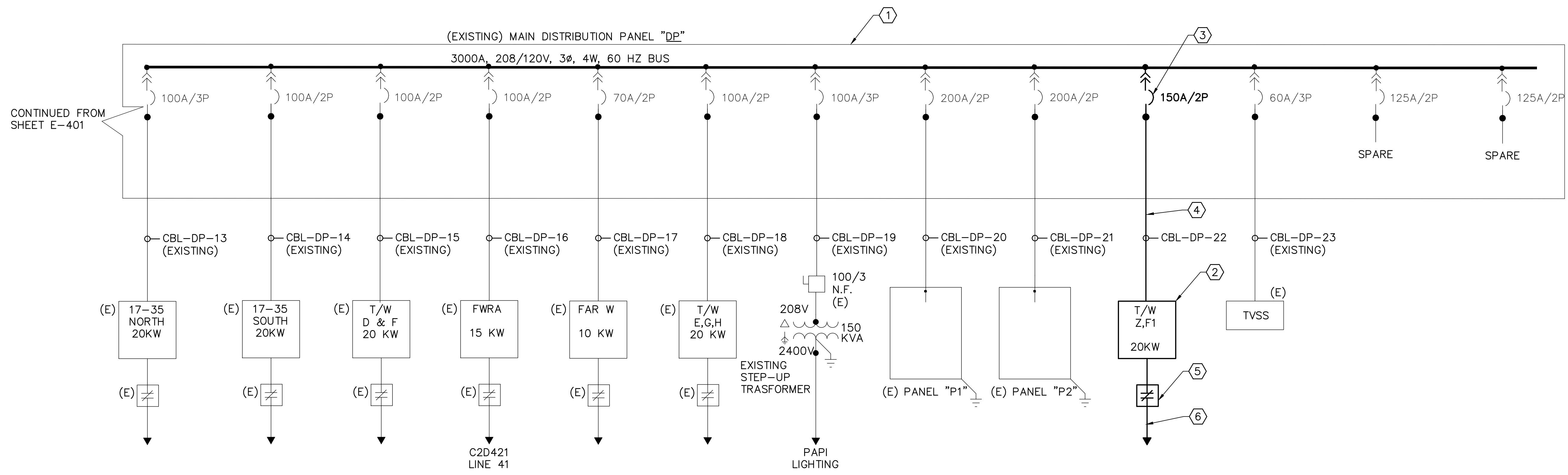
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SCALE:	NTS
DATE:	4/26/2024
DES. BY:	APM
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SURVEYED BY:	---
JOB. No.:	023.0005
SHEET	17 OF 42

E-401

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- KEY NOTES:**
- ALL ELECTRICAL WORK SHOWN IS EXISTING EXCEPT AS NOTED OTHERWISE.
 - PROVIDE NEW 20KW CONSTANT CURRENT REGULATOR (CCR). CCR TO BE FAA AC 150/5345-10, TYPE L-829, CLASS 1, STYLE 1 WITH MONITORING DRY-TYPE SYSTEM AND WITH CURRENT RATING OF 6.6A. USE REGULATOR OF FERRORESONANT DESIGN. REGULATOR MUST HAVE: INTERNAL PRIMARY SWITCH; INPUT VOLTAGE OF 208V, 60 HZ; AND BE CONNECTED, PROGRAMMED AND CONTROLLED BY THE EXISTING AIRFIELD LIGHTING CONTROL SYSTEM. PROVIDE FIVE (5) BRIGHTNESS STEPS, AS INDICATED. PROVIDE REGULATOR WITH INSULATION RESISTANCE MONITORING SYSTEMS AND CURRENT CLAMP TEST POINT. INSURE THAT CONSTANT CURRENT REGULATORS ARE COMPATIBLE WITH SIGNS, LED LIGHT FIXTURES, AND OTHER CONNECTED LOADS. PROVIDE WITH REMOTE MOUNT SERIES CUT OUT SWITCH, SEE KEYNOTE 5 BELOW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS
 - PROVIDE NEW 150A/2P CIRCUIT BREAKER. VERIFY AIC RATING OF EXISTING PANEL AND CIRCUIT BREAKER AND MATCH RATINGS.
 - PROVIDE NEW FEEDER OF 3-#1/0 COPPER CONDUCTORS AND 1-#6 GND IN 2" CONDUIT.
 - AIRFIELD LIGHTING SERIES CIRCUIT CUTOUT (SCO). SCO MUST COMPLY WITH FAA AC 150/5340-30 AND BE ABLE TO OPERATE AT 5000 VOLTS AND WITHSTAND A HI-POT TEST OF 23KV FOR 1 MINUTE. SCO MUST HAVE LOCK OUT/TAG OUT (LOTO) CAPABILITY IN THE OPEN POSITION AND BE CAPABLE OF SHORTING FOR TESTING PURPOSES BY ROTATION OF THE "IN SERVICE" HANDLE.
 - 2-#8 AWG L-824 TYPE C CONDUCTORS TO AIRFIELD LIGHTING CIRCUIT IN 2" CONDUIT. SEE SHEET E-401 FOR ADDITIONAL INFORMATION.

TAXIWAY F-1 PARTIAL ONE-LINE DIAGRAM
SCALE: NTS

N

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TAXIWAY F-1 REHABILITATION	
ONELINE DIAGRAM	SCALE: NTS DATE: 4/26/2024 DES. BY: APM DRAWN BY: DM SURVEYED BY: --- JOB. No.: 023.0005 SHEET 18 OF 42
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
E-402	

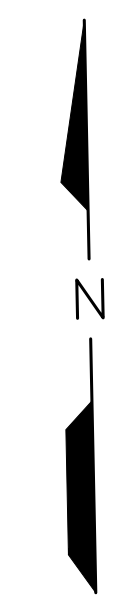
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TAXIWAY F1 AIRFIELD LIGHT FIXTURE SCHEDULE

LIGHT NUMBER	STATION	OFFSET	LIGHT FIXTURE						LIGHT BASE						
			TYPE	COLOR	LAMP TYPE	CLASS (IN PAVEMENT)	HEIGHT (ELEVATED)	MODE	TYPE	CLASS	SIZE	DEPTH	TYPE OPENING	OPENING QTY / LOCATION	TYPE DRAIN
F1.1	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 90°	2" COUPLING
F1.2	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 90°	2" COUPLING
F1.3	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.4	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.5	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.6	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.7	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.8	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.9	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.10	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.11	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.12	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.13	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.14	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.15	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.16	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.17	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.18	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.19	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.20	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.21	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.22	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.23	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.24	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.25	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.26	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.27	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.28	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.29	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.30	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.31	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.32	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.33	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.34	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.35	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.36	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.37	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.38	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.39	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.40	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 180°, 90°	2" COUPLING
F1.41	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 180°, 90°	2" COUPLING
F1.42	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 90°	2" COUPLING
F1.43	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 90°	2" COUPLING
F1.44	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.45	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.46	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.47	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.48	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.49	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.50	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.51	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.52	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.53	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.54	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.55	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.56	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.57	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.58	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.59	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.60	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.61	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.62	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.63	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.64	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.65	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.66	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.67	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.68	---	10' EDGE	L-861T	BLUE	LED	-	14"	1 (6.6A)	L-867	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.69	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.70	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.71	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.72	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.73	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.74	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.75	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.76	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 180°	2" COUPLING
F1.77	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 90°	2" COUPLING
F1.78	---	10' EDGE	L-852T	BLUE	LED	2	---	1 (6.6A)	L-868	IB	B	24"	2" COUPLING	2 / 0°, 90°	2" COUPLING



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SCHEDULE	
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SCALE: NTS DATE: 4/26/2024 DES. BY: APM DRAWN BY: DM SURVEYED BY: --- JOB. No.: 023.0005 SHEET 19 OF 42	E-601

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