TOTAL SHEETS: 15

WI050

CONSTRUCTION PLANS FOR OVERLAY

RSA IMPROVEMENTS - EASTSIDE TAXIWAY RELOCATION MARION-HERRIN, WILLIAMSON COUNTY, ILLINOIS DATE: MARCH 6, 2007

INDEX OF SHEETS

CONSTRUCTION SAFETY PLAN TYPICAL SECTION & STAKING PLAN

TAXIWAY PLAN & PROFILE ACCESS ROAD PLAN & PROFILE

PAVEMENT MARKING AND REMOVAL PLAN

EXISTING ELECTRIC PLAN

PROPOSED ELECTRIC PLAN MISC. ELECTRIC DETAILS

ELECTRICAL NOTES

13.-14. ACCESS ROAD CROSS SECTIONS

STORM SEWER DETAILS

RECURRING SPECIAL PROVISIONS

	•	JRRING SPECIAL PROVISIONS indicated by an "X" a luded by reference:	are Applicable	to th
Chec				
Shee				
<u>N0.</u>	Item No.		Page No.	
1	AR101580	Refurbish 36" Beacon	155	
2	AR106000	Apron Lighting	160	
3	AR119000	Airport Obstruction Lighting (Not Included)	166	
4	AR127000	Airport Navaid Installation (Not Included)	167	
X 5	AR150510	Engineer's Field Office	168	
6	AR150560	Temporary Threshold	170	
7	AR152540	Soil Stabilization Fabric	173	
8	AR156000	Erosion Control	175	
9	AR156513	Separation Fabric	180	
10	AR156540	Riprap	182	
X11	AR201001	Bituminous Base Course - Method I	185	
12	AR201002	Bituminous Base Course - Method II	193	
13	AR201003	Bituminous Base Course - Method I, Superpave	209	
14	AR201004	Bituminous Base Course - Method II, Superpave	217	
15	AR201661	Clean & Seal Bituminous Cracks	230	
16	AR201663	Sand Mix Crack Repair	233	
17	AR201671	Crack Control Fabric	235	
18	AR302000	Asphalt Treated Permeable Subbase	237	
19	AR401001	Bituminous Surface Course - Method I	245	
20	AR401002	Bituminous Surface Course - Method II	253	
21	AR401003	Bituminous Surface Course - Method I, Superpave	269	
22	AR401004	Bituminous Surface Course - Method II, Superpave	277	
23	AR401640	Bituminous Pavement Grooving	290	
24	AR401650	Bituminous Pavement Milling	293	
25	AR401655	Butt Joint Construction	295	
X26	AR401900	Remove Bituminous Pavement	297	
X27	AR501001	Portland Cement Concrete - Pavement Method I	299	
28	AR501002	Portland Cement Concrete - Pavement Method II	316	
29	AR501003	Portland Cement Concrete - Pavement Method III	338	
30	AR501115	Crack and Seat Pavement	362	
31	AR501540	PCC Pavement Grooving	365	
32	AR501550	PCC Pavement Milling	368	
33	AR501900	Remove PCC Pavement	370	
34	AR510500	Tie-down/Ground Rod	372	

NOTE REGARDING SPECIAL PROVISIONS

AR605000 Silicone Joint Sealing Filler

373

* THIS PROJECT HAS NO SPECIAL PROVISIONS. ALL WORK SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION ON AIRPORTS (JANUARY 1985) AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

DI ANG DEFDARED BY

¥	PLANS PREPARED BY :	
	CLARIDA & ZIEGLER ENGINEERING COMPANY P.O. Box 937, 308 South Court Street Marion, Illinois 62959	WILLIAMSON COUNTY AIRPORT AUTHORITY
	REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS NO. 24022	DATE:APRIL 16,2007
	SUBMITTED HAROLD G. CLARIDA ENGINEER	APPROVED
	DATE : APRIL 16, 2007	DATE : APRIL 16, 2007

SUMMARY OF QUANTITIES AS BUILT QTY. DESCRIPTION ITEM NO. 820 AR108156 1/C #6 5KV UG CABLE IN U.D. AR108158 1/C #8 5KV UG CABLE IN U.D L.F. 1440 L.F. 170 1" STEEL DUCT, DIRECT BURY 3" STEEL DUCT, DIRECT BURY L.F. 164 MITL BASE MOUNTED EACH 25 AR125415 AR125442 TAXI GUIDANCE SIGN, 2 CHARACTER EACH EACH AR125902 REMOVE BASE MOUNTED LIGHT 29 EACH AR125906 REMOVE SPLICE CAN EACH AR125962 RELOCATE BASE MOUNTED LIGHT AR125964 RELOCATE TAXI GUIDANCE SIGN EACH PAIR RELOCATE REIL AR125967 AR150510 ENGINEER'S FIELD OFFICE L.S. C.Y. 845 AR152410 UNCLASSIFIED EXCAVATION C.Y. AR152440 **BORROW EXCAVATION** AR201610 BITUMINOUS BASE COURSE TON 1195 12" PCC PAVEMENT S.Y. 2900 AR501512 EACH AR501530 PCC TEST BATCH S.Y. 3487 AR501900 REMOVE PCC PAVEMENT 3709 AR620520 PAVEMENT MARKING - WATERBOURNE S.F. AR620525 PAVEMENT MARKING - BLACK BORDER 675 S.F. 1273 PAVEMENT MARKING REMOVAL AR620900 L.F. 150 24" RCP, CLASS III AR701424 AR751415 INLET SPECIAL EACH EACH SPECIAL STRUCTURE ACRE MULCHING ACRE AR908510

ILLINOIS PROJECT No. MWA-3477 A.I.P. PROJECT 3-17-0065-

> LATITUDE 37° 45' 15" LONGITUDE 89° 00' 45" ELEVATION 471.00

BOARD MEMBERS

CHAIRMAN: CARL PLANINC

MEMBERS: BERNARD A. PAUL

DARREN PULLEY

RICHARD PISONI

SECRETARY: CRAIG PILLATSCH

AIRPORT MANAGER: DOUGLAS KIMMEL

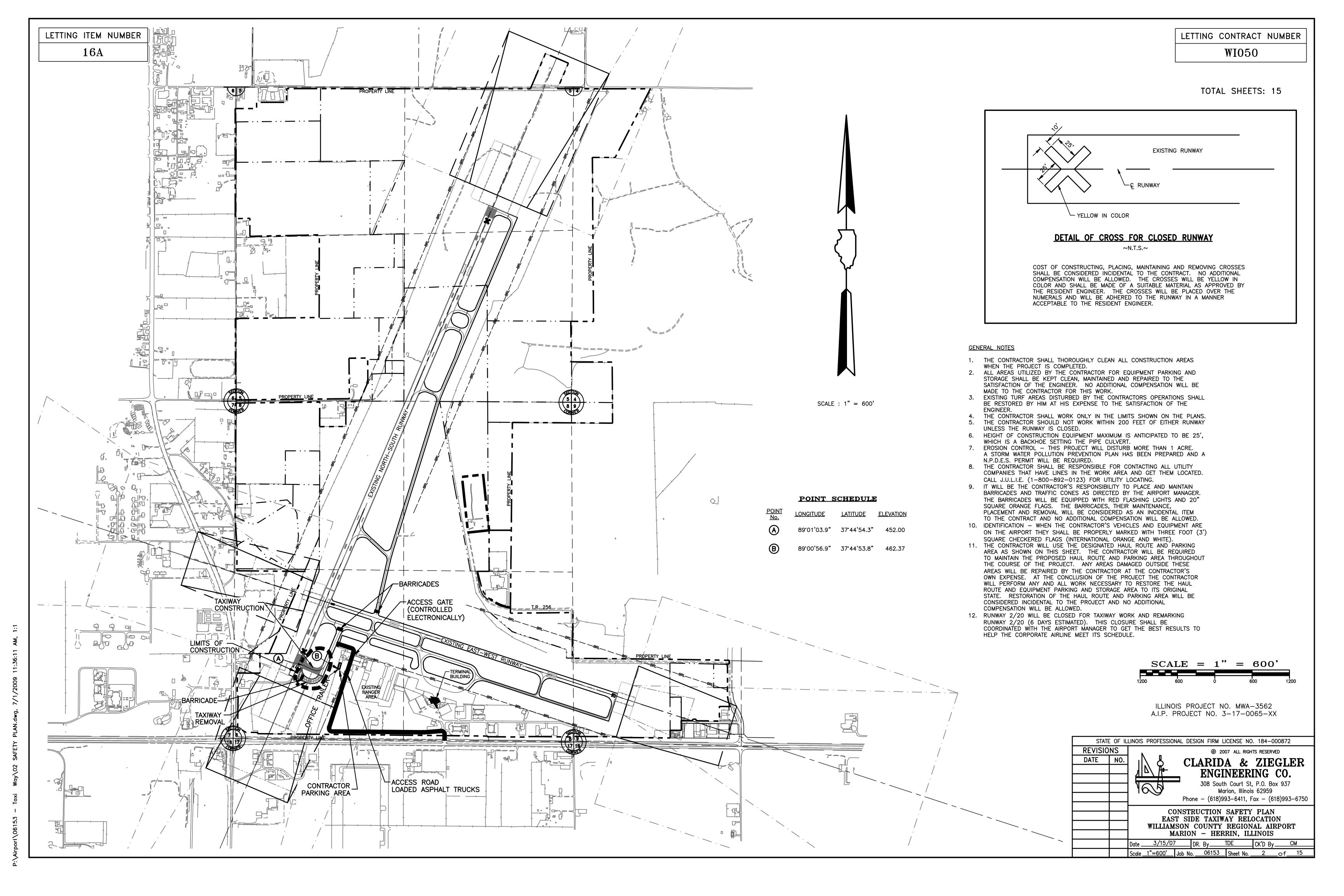
LICENSED PROFESSIONAL

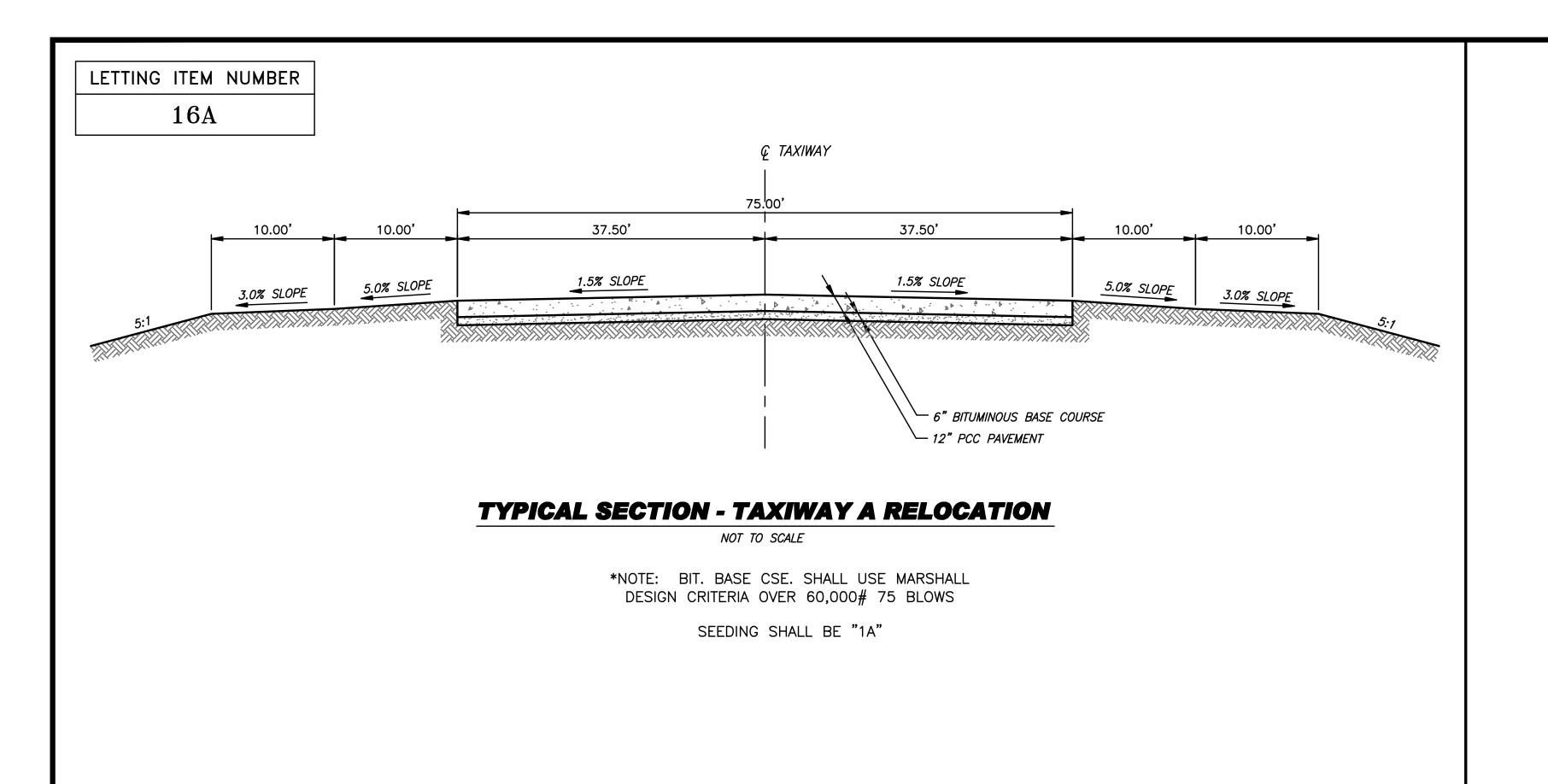
EXPIRES: NOVEMBER 30, 2007

_____MINES CRAINVILLE | | | | 2 MILES

VICINITY MAP

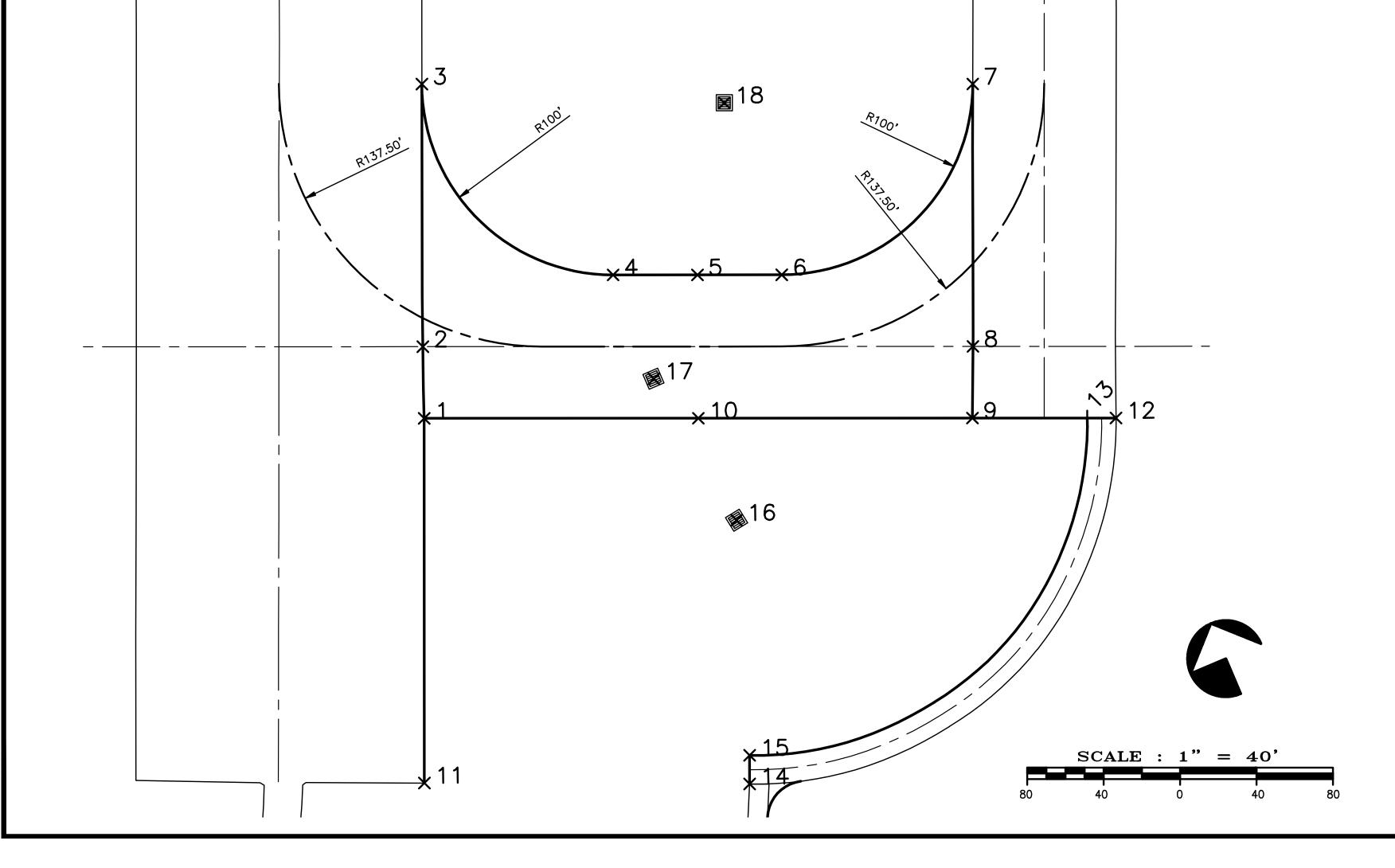
PROJECT 06153





LETTING CONTRACT NUMBER
WI050

TOTAL SHEETS: 15

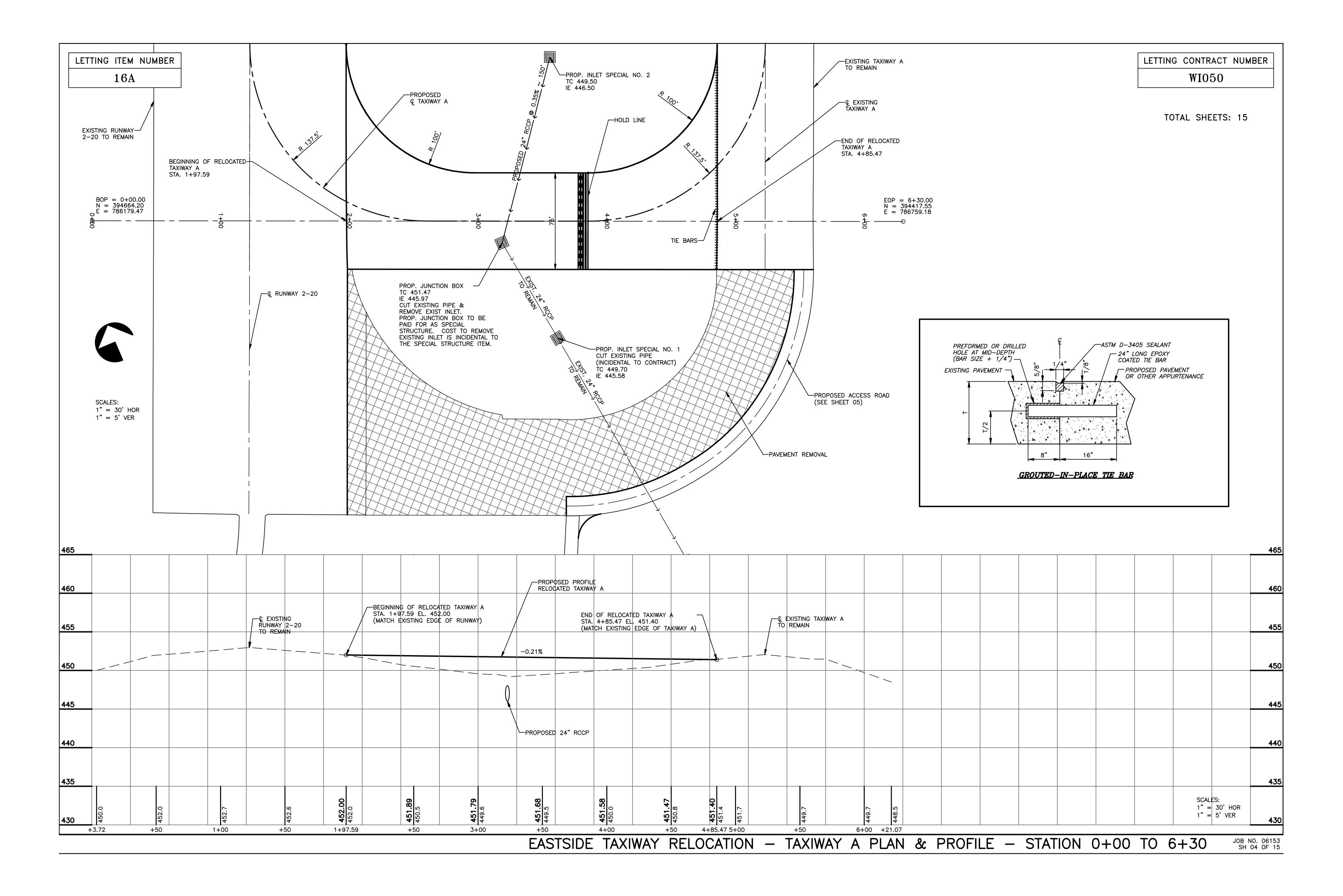


		STAKEOUT POINTS			
NODE ID	NORTHING	EASTING	ELEVATION	STATION	OFFSET
1	394552.05	786347.26	451.88	1+98.30	37.50 R
2	394586.84	786361.28	451.97	1+97.59	0.00 L
2 3	394713.48	786414.70	452.11	1+97.16	137.44 L
4	394582.36	786467.59	451.17	2+97.16	37.50 L
4 5	394565.09	786508.19	450.90	3+41.29	37.50 L
6	394547.81	786548.79	451.06	3+85.41	37.50 L
6 7	394600.50	786679.89	451.62	4+85.41	137.31 L
8 9	394474.13	786626.18	451.44	4+85.47	0.00 L
9	394439.75	786611.21	451.39	4+85.15	37.50 R
10	394495.90	786479.24	451.00	3+41.73	37.50 R
11	394376.45	786272.54	451.62	1+98.30	228.34 R
12	394410.34	786680.33	451.46	5+60.26	37.50 R
13	394416.12	786666.49	451.69	5+45.26	37.61 R
14	394309.30	786428.91	451.05	3+68.47	228.91 R
15	394323.10	786434.81	451.49	3+68.50	213.90 R
16	394438.96	786476.72	449.70	3+61.71	90.88 R
17	394523.99	786465.95	451.47	3+18.50	16.85 R
18	394642.38	786556.41	449.50	3+55.39	127.50 L

ILLINOIS PROJECT NO. MWA-3477 A.I.P. PROJECT NO. 3-17-0065-XX

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000872

REVISIONS		② 2007 ALL RIGHTS RESERVED			
DATE	NO.	CLARIDA & ZIEGLER			
		ENGINEERING CO.			
		# THE ENGINEERING CO.			
		308 South Court St, P.O. Box 937			
		Marion, Illinois 62959			
		Phone - (618)993-6411, Fax - (618)993-6750			
		(0.0)000 0111, 14% (010)000 0700			
		TYPICAL SECTION & STAKING PLAN			
		EAST SIDE TAXIWAY RELOCATION			
		WILLIAMSON COUNTY REGIONAL AIRPORT			
		MARION - HERRIN, ILLINOIS			
		Date 3/15/07 DR. By TDE CK'D By CM			
		Scale AS SHOWN Job No. 06153 Sheet No. 3 of 15			

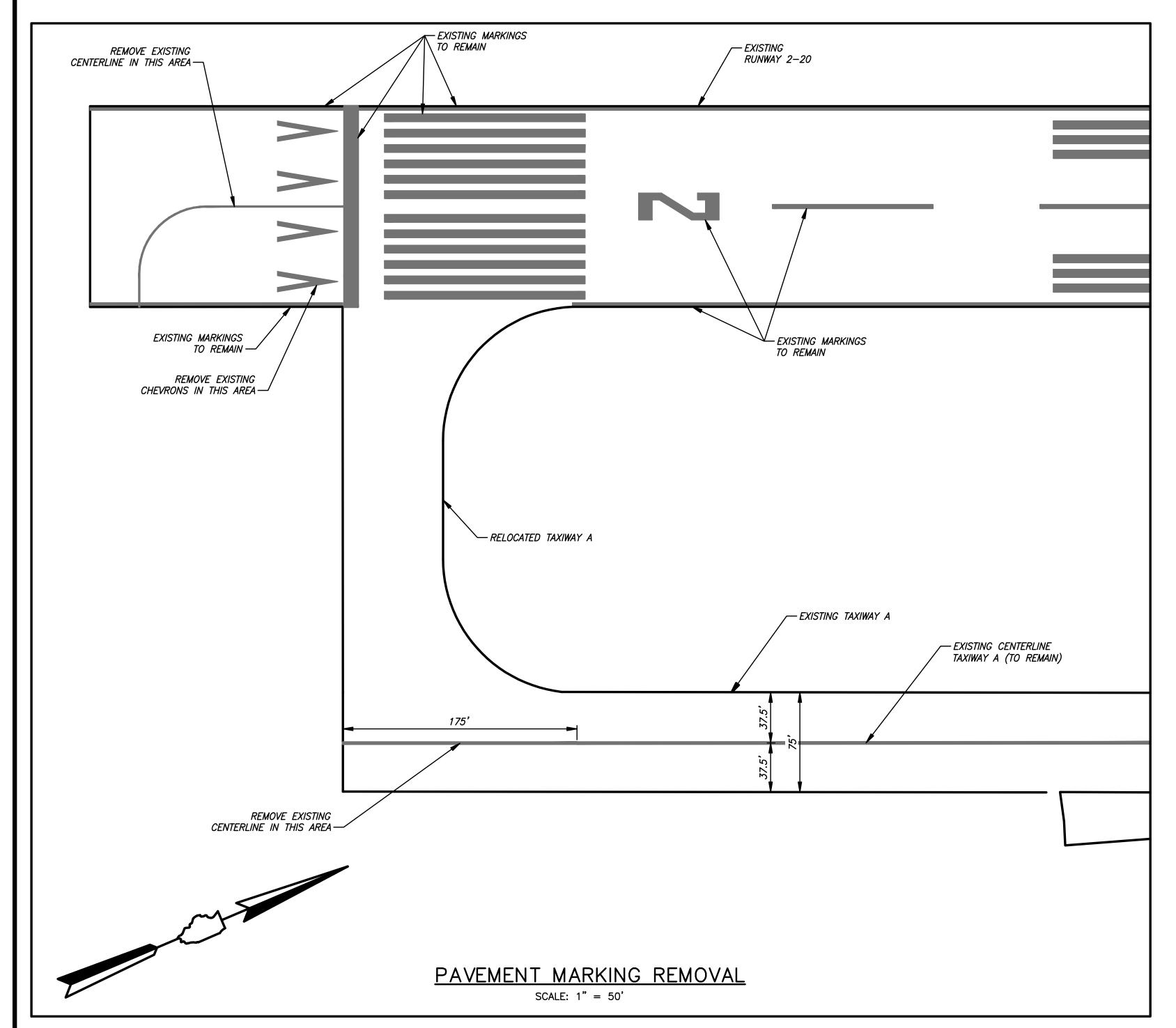


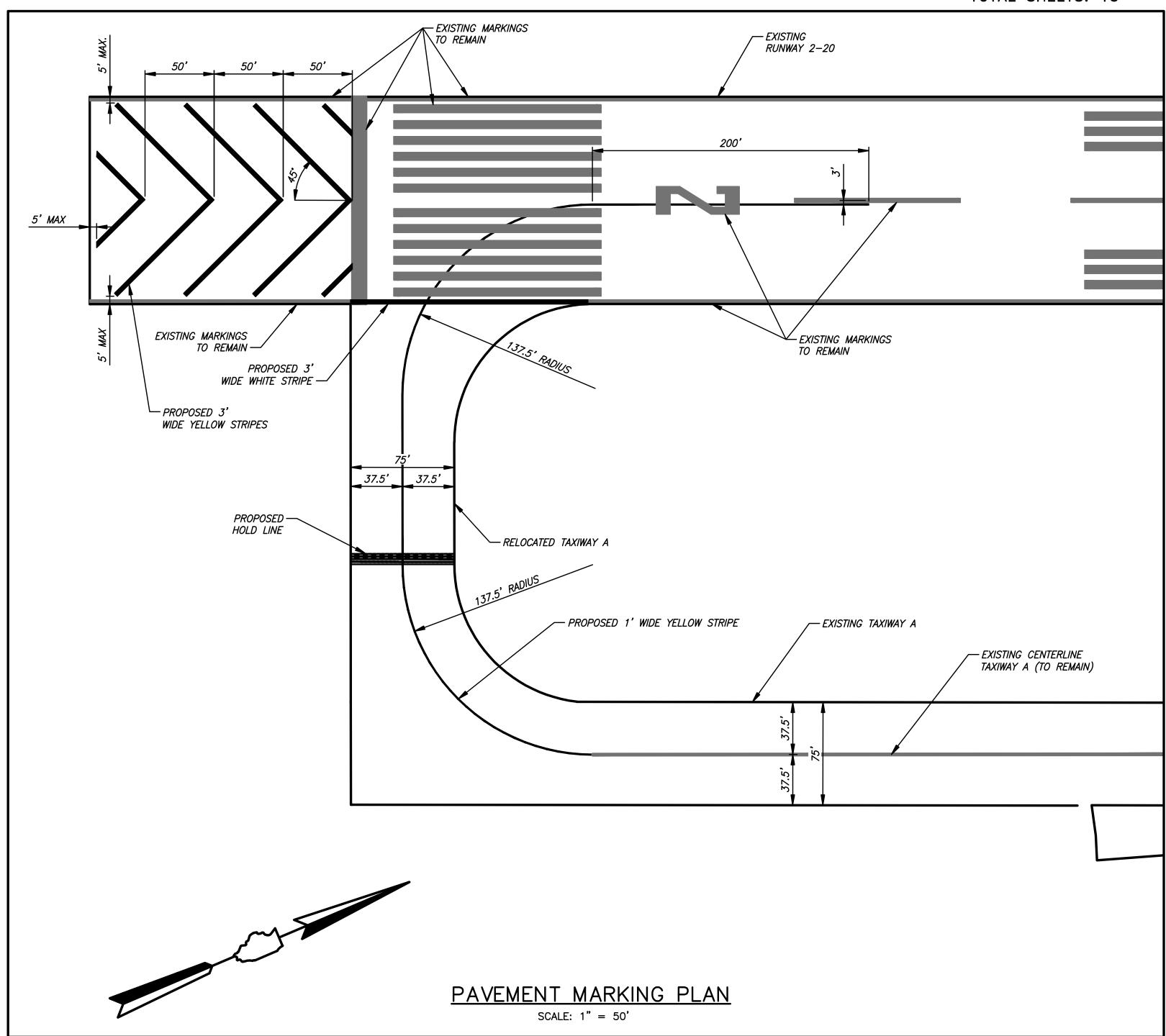
LETTING ITEM NUMBER

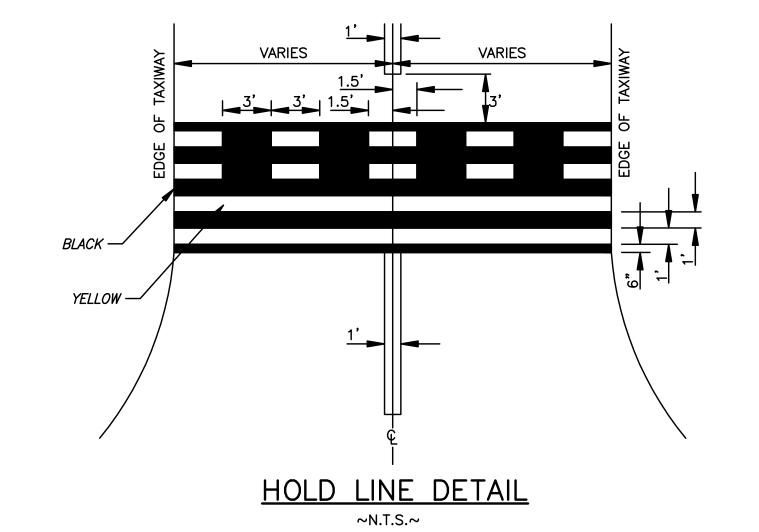
16A

LETTING CONTRACT NUMBER
WI050

TOTAL SHEETS: 15

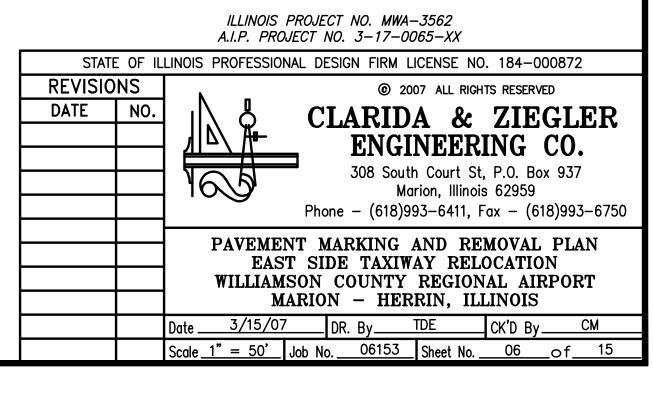


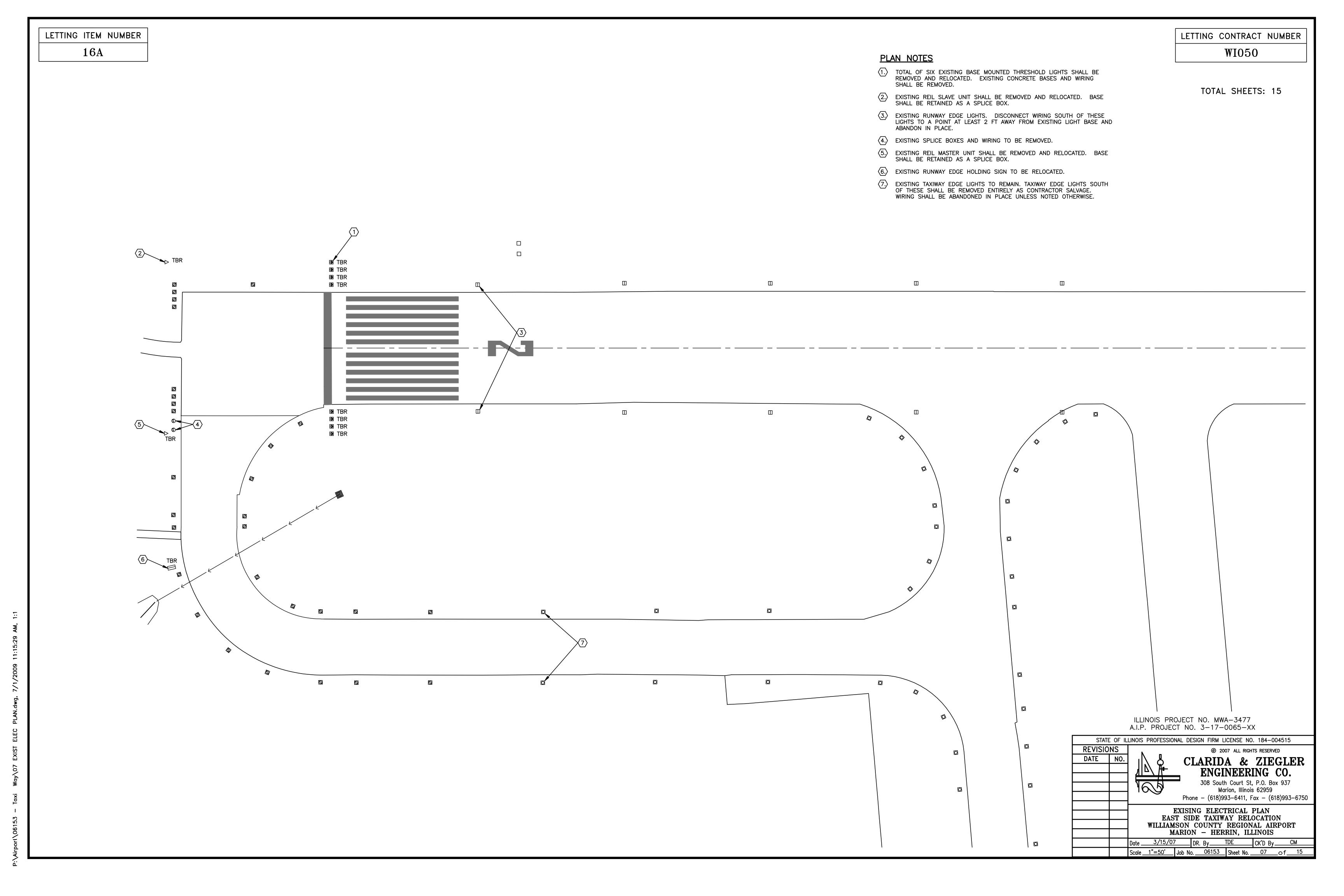




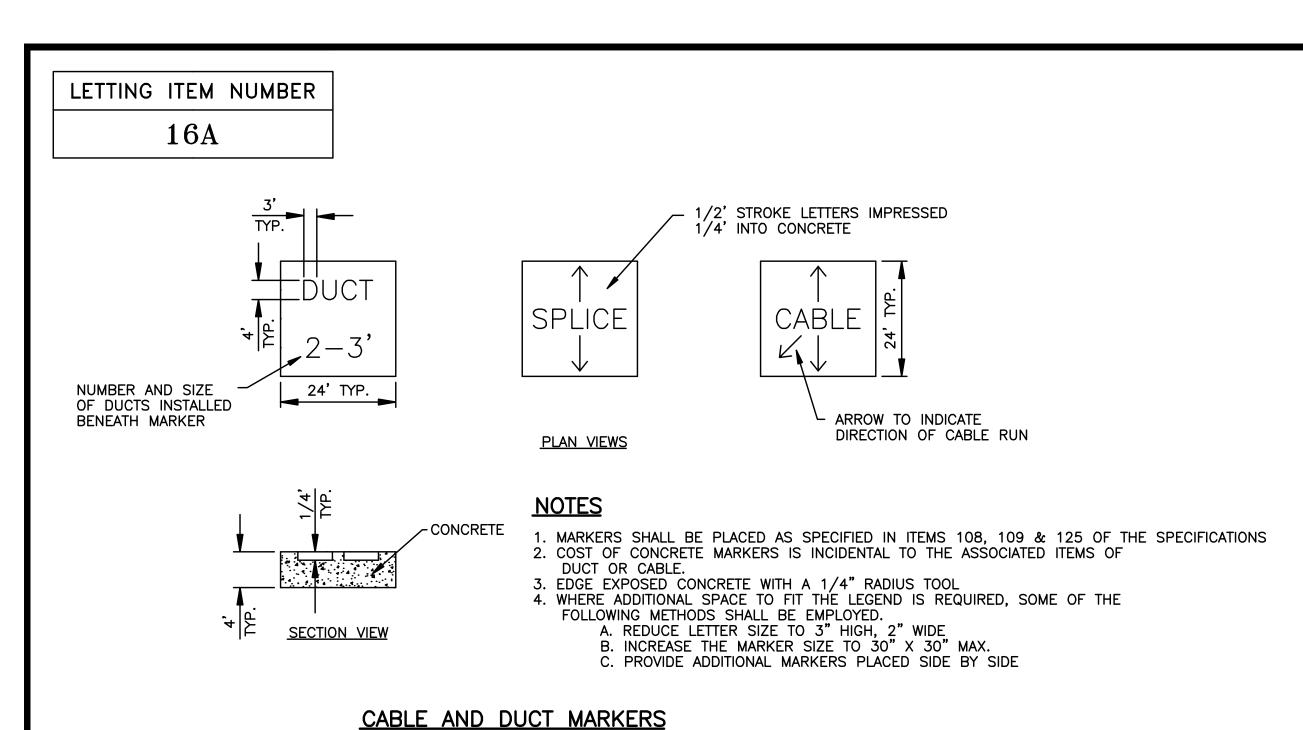
PAVEN	JENT	MARKING	REMOVAL
RUNWAY		1097 SQ.	FT.
TAXIWAY		175 SQ.	FT.

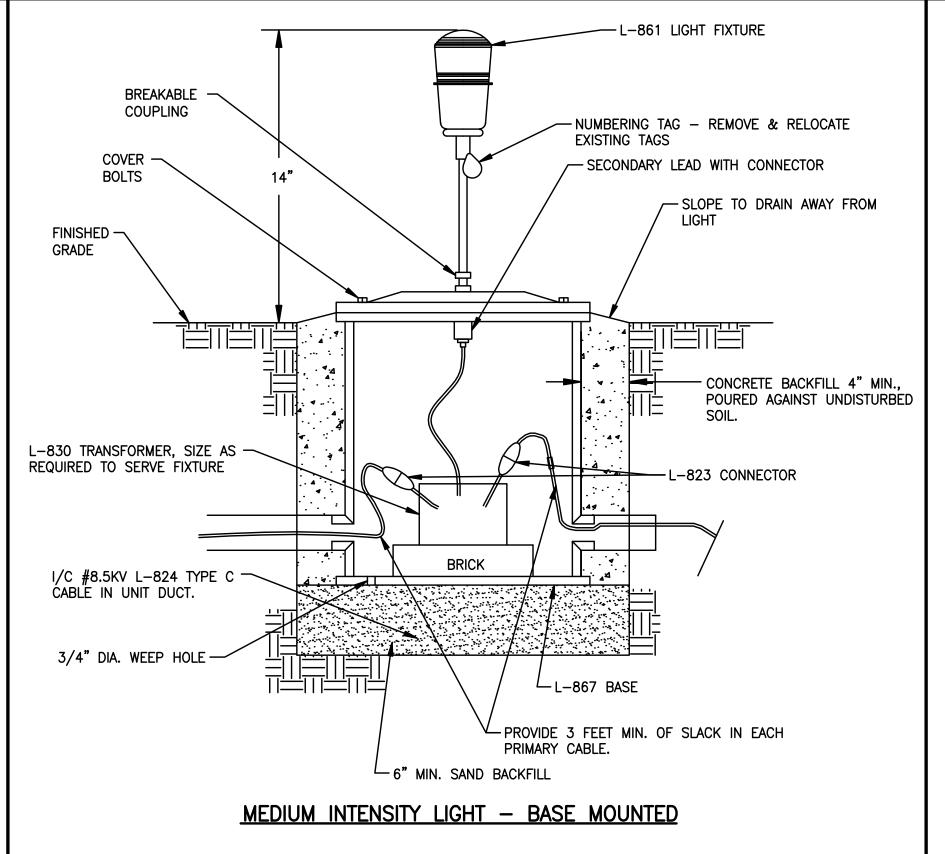
PAINT	QUANTITIES
YELLOW	3193 SQ. FT.
WHITE	516 SQ. FT.
BLACK	675 SQ. FT.





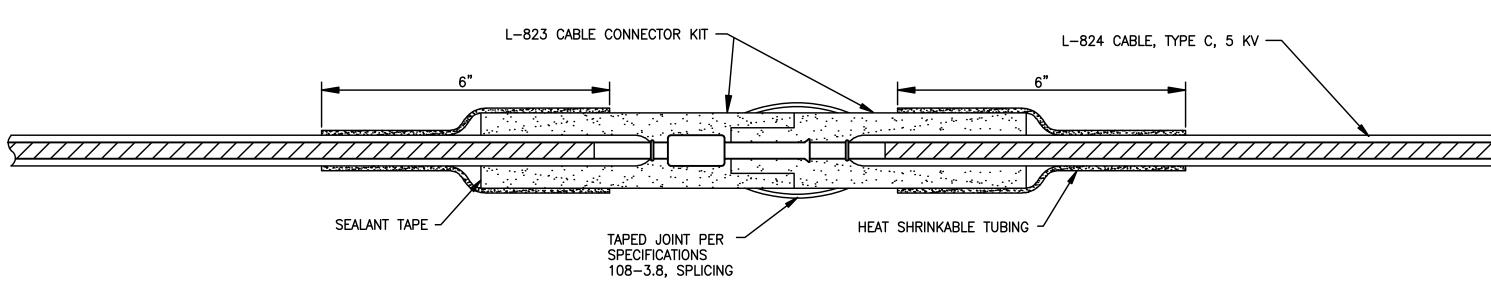
LETTING ITEM NUMBER LETTING CONTRACT NUMBER 16A WI050 TOTAL SHEETS: 15 PLAN NOTES 3 - #6 (120/240 VOLT FEED), 1 - #6 EQUIPMENT GROUND, AND 7 - #12 (INTERCONNECT CONTROL WIRING) IN 2" SCHEDULE 40 PVC IN TRENCH. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO RELOCATION OF THE REIL SYSTEM. (1.) 82 LINEAL FEET OF 3" GALVANIZED STEEL BURIED IN TRENCH. SEE DETAIL, SHEET 10 FOR PROPOSED L-867 CONCRETE BASE FOR MOUNTING THE EXISTING REIL SLAVE UNIT. COST FOR NEW CONCRETE BASE SHALL BE INCLUDED IN PRICE FOR RELOCATE REIL. 1 - 46, TYPE C, 5KV CONDUCTOR IN UNIT DUCT FOR 20 AMP RUNWAY LIGHTING CIRCUIT. (3.) 6 - #12 IN 1" SCHEDULE 40 PVC IN TRENCH FOR REIL CONTROL WIRING EXTENSIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO RELOCATION OF THE REIL SYSTEM. PROPOSED TAXIWAY GUIDANCE SIGN. SEE TYPICAL INSTALLATION DETAIL, SHEET 10. 4. EXISTING REIL SLAVE UNIT CONCRETE BASE SHALL BE SEALED WITH A BLANK GASKETED COVER AND CONVERTED TO A SPLICE BOX. 13 1 - #8, TYPE C, 5KV CONDUCTOR IN UNIT DUCT FOR 6.6 AMP TAXIWAY LIGHTING CIRCUIT. EXISTING 120/240 VOLT UNDERGROUND FEEDER SHALL REMAIN IN USE, EXTENDED AS CALLED FOR IN NOTE 10 ABOVE. 5. EXISTING REIL CONTROL WIRING SHALL BE RETAINED. TYPICAL FOR EIGHT RELOCATED RUNWAY THRESHOLD LIGHTS. SEE PROPOSED CONCRETE BASE DETAIL, SHEET 10. COST FOR NEW BASES SHALL BE INCLUDED IN PRICES FOR RELOCATE BASE MOUNTED (15) EXISTING DUCTS TO REMAIN. (16) EXISTING DUCT TO BE ABANDONED IN PLACE. $\overline{\langle 7. \rangle}$ POINT OF CONNECTION FOR PROPOSED WIRING TO EXISTING AT RUNWAY EDGE LIGHTS. EXISTING RUNWAY HOLD SIGN SHALL BE RELOCATED TO A PROPOSED CONCRETE BASE. SEE DETAILS, SHEET 10 FOR BASE INSTALLATION. 8. 1 - #6, TYPE C, 5KV, CONDUCTOR IN 1" RMC, SAWCUT INTO EXISTING PAVEMENT. SEE INSTALLATION DETAIL, SHEET 10. (18) POINT OF CONNECTION FOR PROPOSED TAXIWAY CIRCUIT WIRING TO EXISTING SYSTEM. 9. EXISTING REIL MASTER UNIT CONCRETE BASE SHALL BE SEALED WITH A BLANK GASKETED COVER AND CONVERTED TO A SPLICE BOX. **— - - — - - — - - — - - —** 8 — - - — - - — - - — - - — **-** - — **-**ILLINOIS PROJECT NO. MWA-3477 A.I.P. PROJECT NO. 3-17-0065-XX STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515 REVISIONS @ 2007 ALL RIGHTS RESERVED CLARIDA & ZIEGLER ENGINEERING CO. 308 South Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750 PROPOSED ELECTRICAL PLAN EAST SIDE TAXIWAY RELOCATION
WILLIAMSON COUNTY REGIONAL AIRPORT
MARION - HERRIN, ILLINOIS Scale 1"=50' Job No. 06153 Sheet No. 08 of





LETTING CONTRACT NUMBER
WI050

TOTAL SHEETS: 15



<u>DETAIL - CABLE SPLICING</u>

CABLE SPLICING NOTES:

1. HEAT—SHRINKABLE TUBING WILL NOT BE REQUIRED FOR ISOLATION TRANSFORMER PRIMARY CONNECTORS WHICH ARE MOLDED ON TO THE CABLE LEADS AT THE FACTORY.

2. THE SEALANT TAPE AROUND THE CONNECTOR SHALL BE WATER INSOLUBLE, MAINTAINING ELASTICITY OVER WIDE RANGE OF TEMPERATURE, AND SHALL BE RAYCHEM NO. 5-1011 OR APPROVED

NOT TO SCALE

3. HEAT-SHRINKABLE TUBING SHALL HAVE MINIMUM EXPANDED I.D. OF 1.200", MAXIMUM RECOVERED I.D. OF .300", MINIMUM EXPANDED WALL THICKNESS OF .04", NOMINAL RECOVERED WALL THICKNESS OF 0.17", A MASTIC WATER SEALANT COATING APPLIED ON THE INSIDE, AND SHALL BE RAYCHEM NO. WCS-300-6-S OR APROVED

4. MINIMUM LENGTH OF THE HEAT-SHRINKABLE TUBING SHALL BE 6".

5. CLEAN THE CABLE INSULATION BEFORE APPLYING THE TUBING WITH A SOLVENT SPECIFIED BY THE TUBING MANUFACTURER.

6. TO HEAT THE TUBING, USE PROPANE TORCH, OR ELECTRIC HEATER

RECOMMENDED BY THE TUBING MANUFACTURER.

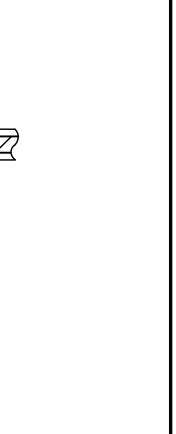
7. BEGIN HEATING THE TUBING AT THE CENTER, GO COMPLETELY AROUND, THEN MOVE TOWARD THE ENDS.

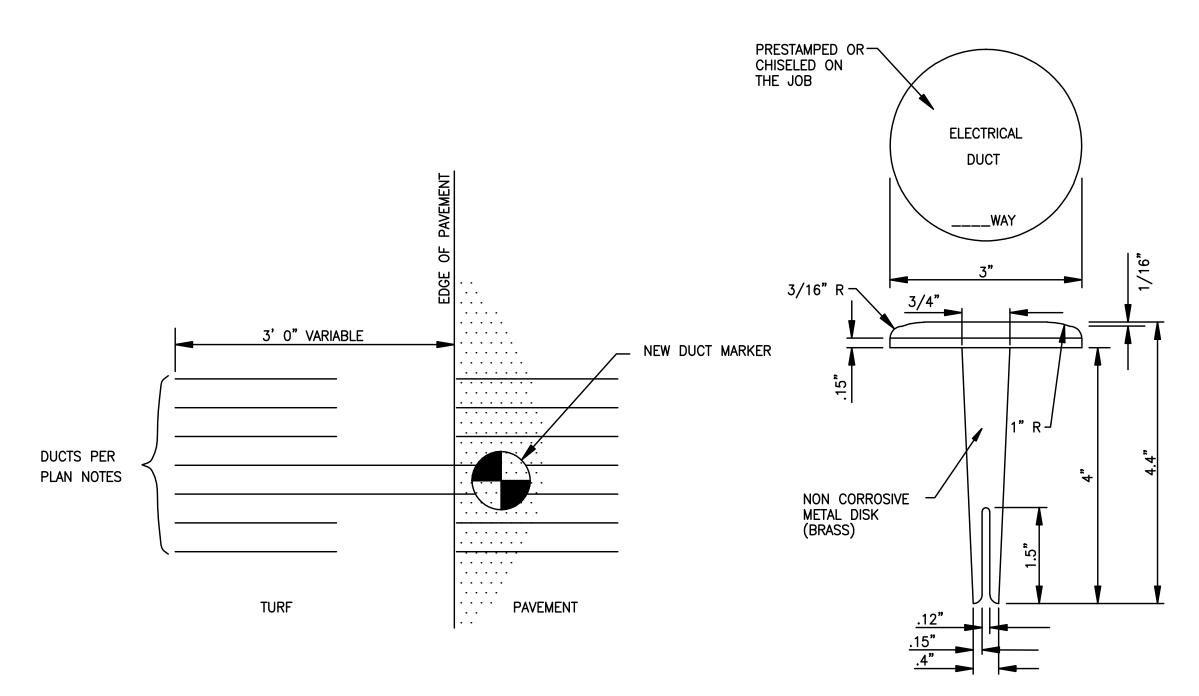
8. CONTINUE HEATING THE TUBING UNTIL IT SHRINKS COMPLETELY AND THE SEALANT IS BEING SQUEEZED OUT AT BOTH ENDS.

9. IF THERE IS ANY NOTICEABLE HEAT DAMAGE TO THE CABLE OR THE TUBING, THE CONNECTION, INCLUDING THE DAMANGED PORTION, WILL BE REMOVED AND ANOTHER CONNECTION MADE.

10. ALLOW THE CONNECTION TO COOL BEFORE HANDLING.

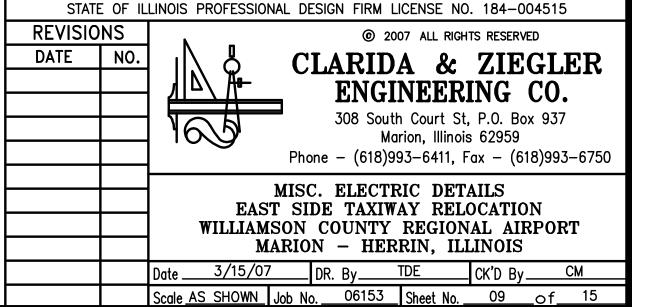
11. INSTALL THE CONNECTIONS WITHOUT BENDING THEM.

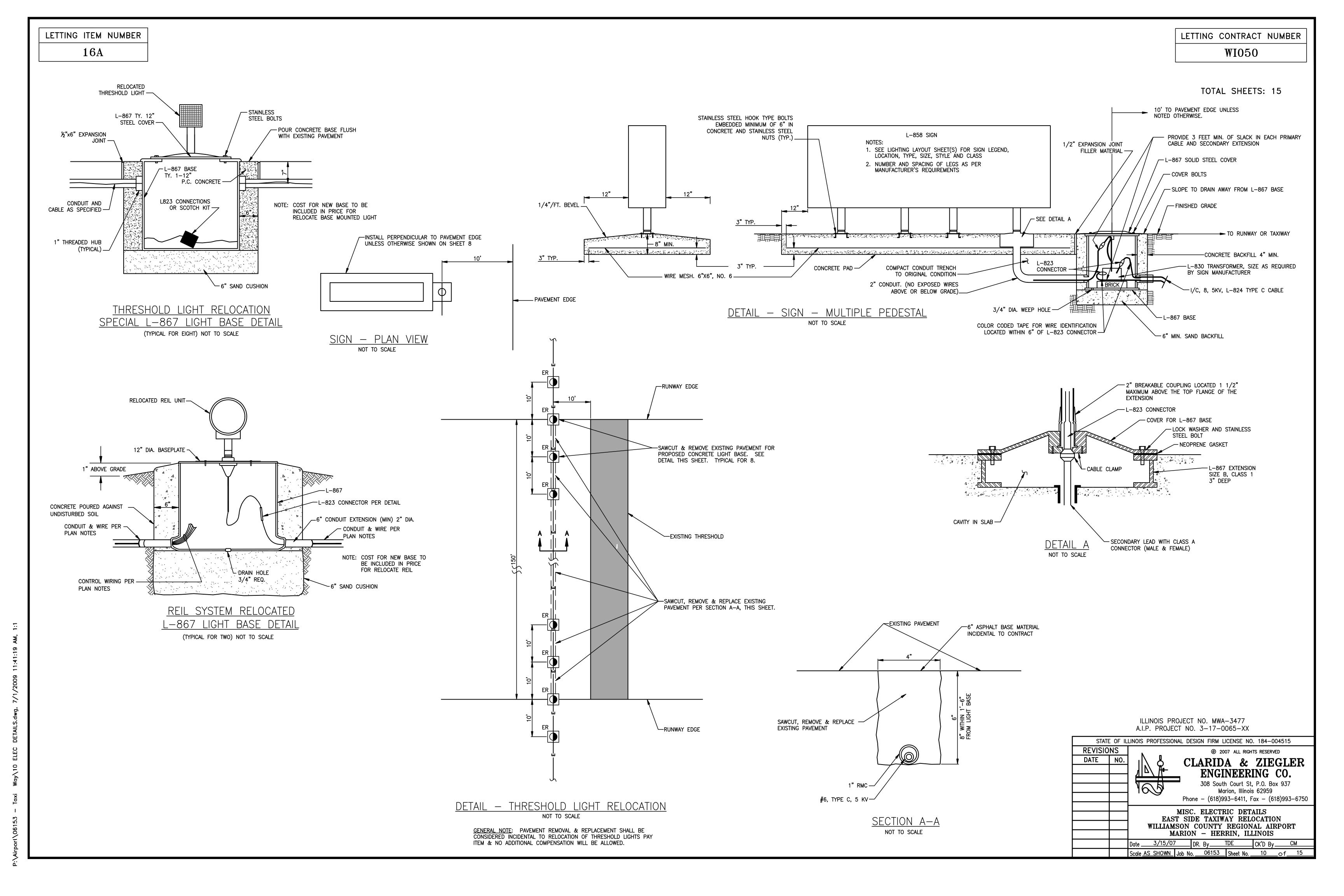




DUCT MARKER DETAIL

ILLINOIS PROJECT NO. MWA-3477 A.I.P. PROJECT NO. 3-17-0065-XX





16A

GENERAL ELECTRICAL NOTES

LETTING CONTRACT NUMBER

W1050

TOTAL SHEETS: 15

- 1. THE ELECTRICAL INSTALLATION, AS A MINIMUM, SHALL MEET THE NATIONAL ELECTRICAL CODE AND LOCAL REGULATIONS.
- 2. COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. BLACK AND RED SHALL BE USED FOR SINGLE PHASE, THREE WIRE SYSTEMS, AND BLACK, RED AND BLUE SHALL BE USED FOR THREE PHASE SYSTEMS. NEUTRAL CONDUCTORS SIZE NO. 6 AWG OR SMALLER SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS SIZE LARGER THAN NO. 6 SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE ENCLOSURES.
- 3. ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.
- 4. GROUND ALL NONCURRENT-CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT BY USING INSULATED COPPER WIRE TO BE RUN INSIDE CABINETS AND IN CONDUITS TOGETHER WITH OTHER WIRES.
- 5. SCHEDULE 40 RIGID STEEL CONDUIT (RMC) SHALL BE USED THROUGHOUT THE INSTALLATION UNLESS OTHERWISE SPECIFIED.
- 6. ALL STEEL CONDUITS, FITTINGS, NUTS, BOLTS, ETC., SHALL BE GALVANIZED.
- 7. UNLESS OTHERWISE NOTED, ALL SINGLE CONTROL CONDUCTORS SHALL BE NO. 12 AWG, THHN, STRANDED COPPER. EXTENSIONS TO EXISTING CONTROL CONDUCTORS SHALL BE THE SAME COLOR AS EXISTING.
- 8. BOTH ENDS OF EACH CONTROL CONDUCTOR SHALL BE TERMINATED AT A TERMINAL BLOCK. THE TERMINAL BLOCKS SHALL BE OF PROPER RATING AND SIZE AND THEY SHALL BE LOCATED IN EQUIPMENT ENCLOSURES OR SPECIAL TERMINAL CABINETS.
- 9. BOTH ENDS OF ALL CONTROL CONDUCTORS SHALL BE IDENTIFIED AS TO THE CIRCUIT, TERMINAL BLOCK, AND TERMINAL NUMBER. ONLY SHRINKABLE PERMANENT LABELS SHALL BE USED.
- 10. SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES AND LIGHT BASES.
- 11. UNLESS OTHERWISE NOTED, ALL UNDERGROUND FIELD POWER MULTIPLE AND SERIES CIRCUIT CONDUCTORS SHALL BE FAA APPROVED L-824, TYPE, INSULATION, VOLTAGE AND SIZE SHALL BE AS SPECIFIED.

- 12. THE JOINT OF THE PRIMARY L-823 PRIMARY CONNECTORS SHALL BE WRAPPED WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF THE JOINT. HEAT-SHRINK TUBING SHALL BE APPLIED WHERE CABLE ENTERS BACK OF CONNECTOR, SEE DETAIL DWG., SHEET 9.
- 13. THE ID OF THE PRIMARY L-823 FIELD ATTACHED CONNECTORS SHALL MATCH THE CABLE OD TO PROVIDE A WATERTIGHT CABLE ENTRANCE.
- 14. THE RESISTANCE TO GROUND OF THE GROUNDING SYSTEM WITH COMMERCIAL POWER LINE NEUTRAL DISCONNECTED SHALL NOT EXCEED 10 OHMS.
- 15. ALL POWER AND CONTROL CIRCUIT CONDUCTORS SHALL BE COPPER, ALUMINUM SHALL NOT BE ACCEPTED. THIS INCLUDES WIRE, CABLE, BUSSES, TERMINALS, SWITCH/PANEL COMPONENTS, ETC.
- 16. CABLE/SPLICE/DUCT MARKERS SHALL BE PRECAST CONCRETE OF SIZE SHOWN. LETTERS/NUMBERS FOR THE LEGEND TO BE IMPRESSED INTO TOPS OF THE MARKERS SHALL BE PREASSEMBLED AND SECURED IN MOLD BEFORE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE
- 17. THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM INCLUDING FAA APPROVED EQUIPMENT) ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NONCOMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED BY HIM AT NO ADDITIONAL COST TO THE AIRPORT SPONSOR WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER (DIFFERENT MODEL OF DIFFERENT MANUFACTURER) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.
- 18. IN CASE THE CONTRACTOR SELECTS TO FURNISH AND INSTALL AIRPORT LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTERS, MOUNTINGS, ETC., TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATIONS, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST.

- 19. THE CONTRACTOR INSTALLED EQUIPMENT (INCLUDING FAA APPROVED) SHALL NOT GENERATE ANY ELECTRO-MAGNETIC INTERFERENCE IN THE EXISTING AND/OR NEW COMMUNICATIONS, WEATHER, AND AIR TRAFFIC CONTROL EQUIPMENT. ANY EQUIPMENT GENERATING SUCH INTERFERENCE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST BY EQUIPMENT MEETING THE APPLICABLE SPECIFICATIONS AND NOT GENERATING ANY INTERFERENCE.
- 20. UNLESS NOTED OTHERWISE FOR IN PAVEMENT LIGHTS, WHERE EXISTING FIELD LIGHTS ARE TO BE REMOVED, THE AREA SHALL BE BACKFILLED WITH EARTH TO THE ORIGINAL GRADE, COMPACTED AND SEEDED. SUCH LIGHTS AND CONCRETE BASES SHALL BECOME CONTRACTOR SALVAGE AND SHALL BE REMOVED FROM THE PREMISES ENTIRELY.
- 21. WHERE PROPOSED LIGHTS OR SIGNS ARE SHOWN IN THE SAME LOCATION AS EXISTING LIGHTS OR SIGNS, CONTRACTOR SHALL REMOVE THE EXISTING WIRING TO AT LEAST ONE FOOT AWAY FROM PROPOSED WIRING
- 22. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND CIRCUITS WITH A PORTABLE CABLE LOCATOR WHERE POSSIBLE TO AVOID DAMAGE TO EXISTING CIRCUITS TO BE RETAINED. EXCAVATION REQUIRED IN CONGESTED AREAS CONTAINING OTHER CIRCUITS SHALL BE DONE BY HAND. ANY SUCH WIRING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AFTER DISCOVERY AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ALL UNDERGROUND SPLICES SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING TRENCHES.
- 23. SHOP DRAWINGS SHALL BE REQUIRED FOR THE FOLLOWING ITEMS:
 CABLE IN UNIT DUCT, FIELD LIGHTS, LAMPS, SPLICE CANS, FIELD LIGHT MODIFICATIONS, AND CABLE CONNECTORS.

ADDITIONAL ITEM 108 SPECIAL PROVISION:

- 1. CABLE TESTING SHALL BE PERFORMED WITH A 5000 VOLT DC MEGOHM METER.
- 2. A WRITTEN REPORT OF THE CABLE TESTING RESULTS LISTING THE SEGMENTS TESTED AND THE VALUES MEASURED SHALL BE SUBMITTED TO THE ENGINEER WITHIN 24 HOURS OF THE TEST.

ADDITIONAL ITEM 125 SPECIAL PROVISIONS:

- 1. TAXIWAY EDGE LIGHTS SHALL BE FAA TYPE L-861T, OMNIDIRECTIONAL BLUE LENS, MEDIUM INTENSITY WITH 30 WATT LAMPS, BASE MOUNTED WITH AN OVERALL HEIGHT NOT TO EXCEED 14", AND CONNECTED FOR 6.6 AMPERES APPLICATION.
- 2. PROPOSED TAXIWAY GUIDANCE, INTERSECTION, LOCATION, AND DESTINATION SIGNS; AND MODIFICATIONS TO EXISTING SIGNS SHALL CONFORM TO THE FOLLOWING:

(A) PROPOSED GUIDANCE, HOLDING, LOCATION, OR DESTINATION SIGNS SHALL BE SIZE 1, 18 INCH SIGN FACE WITH 12 INCH LEGEND, STYLE 2, POWERED FROM 4.8 TO 6.6 AMP SERIES LIGHTING CIRCUIT; CLASS 1, FOR OPERATION TO -20 DEGREE C., MEDIUM INTENSITY, BASE MOUNTED WITH LEGENDS AS SHOWN ON THE PLANS. SIGNS SHALL BE DOUBLE FACE WITH ALL OR A PORTION OF ONE FACE BLANKED OUT. HOLDING SIGNS SHALL DISPLAY LOCATION LEGENDS ON THE BACK SIDE. SIGNS ARE ORIENTED ON THE PLANS AS THEY SHOULD BE INSTALLED.

(B) FOR SIZE 1, STYLE 2 OPERATION, SIGNS SHALL BE LIGHTED WITH QUARTZ LAMPS. MAXIMUM VOLT/AMPERE LOADING, AND MINIMUM POWER FACTOR FOR THESE SIGNS, INCLUDING ISOLATION TRANSFORMERS, SHALL BE AS FOLLOWS. <u>DOCUMENTATION VERIFYING THESE VALUES SHALL BE PROVIDED ALONG WITH ORIGINAL PRODUCT SHOP DRAWINGS</u>.

MAXIMUM SIGN LENGTH	VA LOAD	POWER FACTOR
2.5'	 68	.88
5.0'	77	.98
7.5'	114	.88
10.0'	140	.87

(C) PROPOSED TAXIWAY GUIDANCE LEGENDS SHALL BE TYPE L-858Y, INFORMATION SIGNS WITH BLACK LEGEND ON A YELLOW BACKGROUND. (D) PROPOSED TAXIWAY LOCATION LEGENDS SHALL BE TYPE L-858L WITH YELLOW LEGEND ON BLACK BACKGROUND.

- 3. REMOVE CERTAIN EXISTING TAXIWAY LIGHTS, GUIDANCE SIGNS, BASES, AND TRANSFORMERS WHERE SHOWN ON THE PLANS. BACKFILLING AND RESTORATION OF EXISTING LOCATIONS SHALL BE INCLUDED IN THIS ITEM. MATERIAL REMOVED UNDER THESE ITEMS SHALL BECOME CONTRACTOR SALVAGE UNLESS NOTED OTHERWISE, AND SHALL BE REMOVED FROM THE SITE.
- 4. RELOCATE EIGHT EXISTING HI THRESHOLD LIGHTS ON NEW CONCRETE BASES. BASE CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
- 5. PRIOR TO INSTALLING THE PROPOSED LIGHT FIXTURES, THE CONTRACTOR WILL APPLY AN OXIDE INHIBITING, ANTI-SEIZING COMPOUND TO ALL SCREWS, NUTS, BREAKABLE COUPLING AND ALL PLACES WHERE METAL COMES INTO CONTACT WITH METAL. THE ANTI-SEIZE COMPOUND WILL BE AS MANUFACTURED BY I.T.T. BRAND NAME "CONTAX" OR AN APPROVED EQUAL.
- 6. ALL L-867 BASE PLATE MOUNTING BOLTS AND STAKE MOUNTING BOLTS SHALL BE STAINLESS STEEL.
- 7. RELOCATE EXISTING RUNWAY END IDENTIFICATION LIGHT (REIL) SYSTEM. CONSTRUCTION OF CONCRETE BASES SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.

FIELD LIGHTING PLAN LEGEND EXISTING BASE MOUNTED THRESHOLD LIGHT — TO BE REMOVED EXISTING BASE MOUNTED THRESHOLD LIGHT - TO BE RELOCATED EXISTING REIL - TO BE RELOCATED EXISTING SPLICE BOX - TO BE REMOVED EXISTING TAXIWAY GUIDANCE SIGN - TO BE RELOCATED EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT - TO REMAIN EXISTING BASE MOUNTED RUNWAY EDGE LIGHT - TO REMAIN EXISTING REIL RELOCATED EXISTING BASE MOUNTED THRESHOLD LIGHT - RELOCATED EXISTING TAXIWAY GUIDANCE SIGN - RELOCATED PROPOSED BASE MOUNTED TAXIWAY EDGE LIGHT PROPOSED SPLICE BOX PROPOSED TAXIWAY GUIDANCE SIGN (SHADED AREA INDICATES BLANK PANEL) PROPOSED UNDERGROUND ELECTRICAL —— - ——E—— - —— EXISTING UNDERGROUND ELECTRICAL PROPOSED DUCT

ILLINOIS PROJECT NO. MWA-3477 A.I.P. PROJECT NO. 3-17-0065-XX

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS		② 2007 ALL RIGHTS RESERVED
DATE	NO.	CLARIDA & ZIEGLER ENGINEERING CO. 308 South Court St, P.O. Box 937 Marion, Illinois 62959 Phone - (618)993-6411, Fax - (618)993-6750
		ELECTRICAL NOTES EAST SIDE TAXIWAY RELOCATION WILLIAMSON COUNTY REGIONAL AIRPORT MARION - HERRIN, ILLINOIS
		Date 3/15/07 DR. By TDE CK'D By CM
		Scale NONE Job No. 06153 Sheet No. 11 of 15

LETTING CONTRACT NUMBER

LETTING ITEM NUMBER

