

VILLAGE OF RANTOUL RANTOUL NATIONAL AVIATION CENTER

RECONSTRUCT AND REALIGN TAXIWAY E AT THE WEST END OF THE INTERSECTION WITH RUNWAY 9-27

APRIL 20, 2018

BURNS & MCDONNELL
PROJECT: 95601

IL PROJECT NO. TIP-4579
SBG PROJECT 3-17-SBGP-120/139

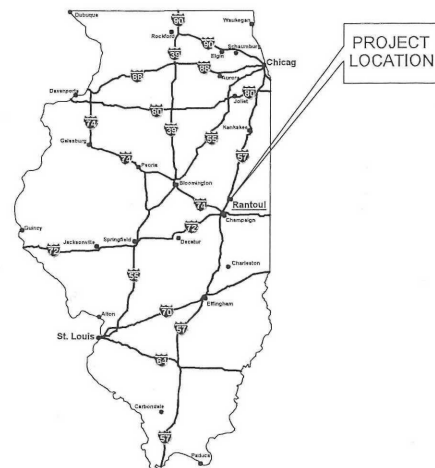
RANTOUL AIRPORT

TOWNSHIP: 21 NORTH RANTOUL TOWNSHIP
RANGE: 9 EAST SECTION: 11
CHAMPAIGN COUNTY

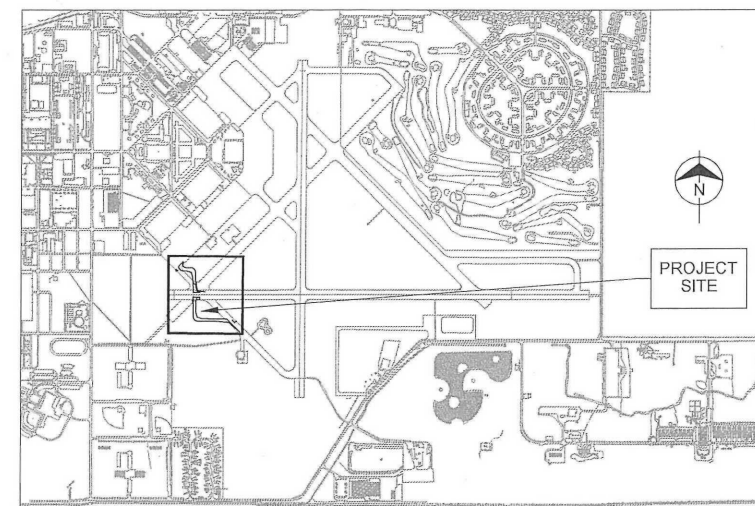
811 Know what's below.
Call before you dig.
J.U.L.I.E.
JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS
www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED, IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED, ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.



LOCATION MAP



SITE MAP



333 SOUTH TANNER
RANTOUL, IL 61866

APPROVED BY *Eric Vences*
DATE 4/18/2018

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

BURNS & MCDONNELL
200 W ADAMS ST, STE 2601
CHICAGO, IL 60606
PHONE (312) 223-0920
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LICENSEE NO. 184-001310

DRAWINGS: G-000 THRU CX-105
SUBMITTED BY *Stephen J. McLaughlin* EXP. 11/30/19
DATE 20-April-2018

DRAWINGS: EA-101 THRU EA-113
SUBMITTED BY *Eric Vences* EXP. 11/30/19
DATE 20-APR-2018

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35	CX-102	CROSS SECTIONS
36	CX-103	CROSS SECTIONS
37	CX-104	CROSS SECTIONS
38	CX-105	CROSS SECTIONS

ITEM NO.	PAY ITEM NO.	DESCRIPTION	UOM	QUANTITY
1	AR108158	1/C #8 5KV UG CABLE IN UD	LF	4,050
2	AR108960	REMOVE CABLE	LF	4,100
3	AR110212	2" STEEL DUCT, DIRECT BURY	LF	101
4	AR125410	MITL-STAKE MOUNTED	EA	56
5	AR125902	REMOVE BASE MOUNTED LIGHT	EA	29
6	AR125904	REMOVE TAXI GUIDANCE SIGN	EA	1
7	AR125964	RELOCATE TAXI GUIDANCE SIGN	EA	3
8	AR150520	MOBILIZATION	LS	1
9	AR150530	TRAFFIC MAINTENANCE	LS	1
10	AR152410	UNCLASSIFIED EXCAVATION	CY	4,700
11	AR155530	HYDRATED LIME	TON	157
12	AR156510	SILT FENCE	LF	524
13	AR156520	INLET PROTECTION	EA	4
14	AR209608	CRUSHED AGG. BASE COURSE - 8"	SY	8,097
15	AR401613	BIT. SURF. CSE-METHOD I, SUPERPAVE	TON	750
16	AR401650	BITUMINOUS PAVEMENT MILLING	SY	839
17	AR403613	BIT. BASE CSE-METHOD I, SUPERPAVE	TON	1,093
18	AR501905	REMOVE PAVEMENT	SY	9,713
19	AR602510	BITUMINOUS PRIME COAT	GAL	3,902
20	AR603510	BITUMINOUS TACK COAT	GAL	1,296
21	AR620520	PAVEMENT MARKING - WATERBORNE	SF	5,900
22	AR620900	PAVEMENT MARKING REMOVAL	SF	1,000
23	AR701512	12" RCP, CLASS IV	LF	535
24	AR751412	INLET-TYPE B	EA	3
25	AR751550	MANHOLE 5'	EA	1
26	AR751903	REMOVE MANHOLE	EA	1
27	AR752412	PRECAST REINFORCED CONC. FES 12"	EA	1
28	AR901510	SEEDING	ACRE	3.25
29	AR908510	MULCHING	ACRE	3.25

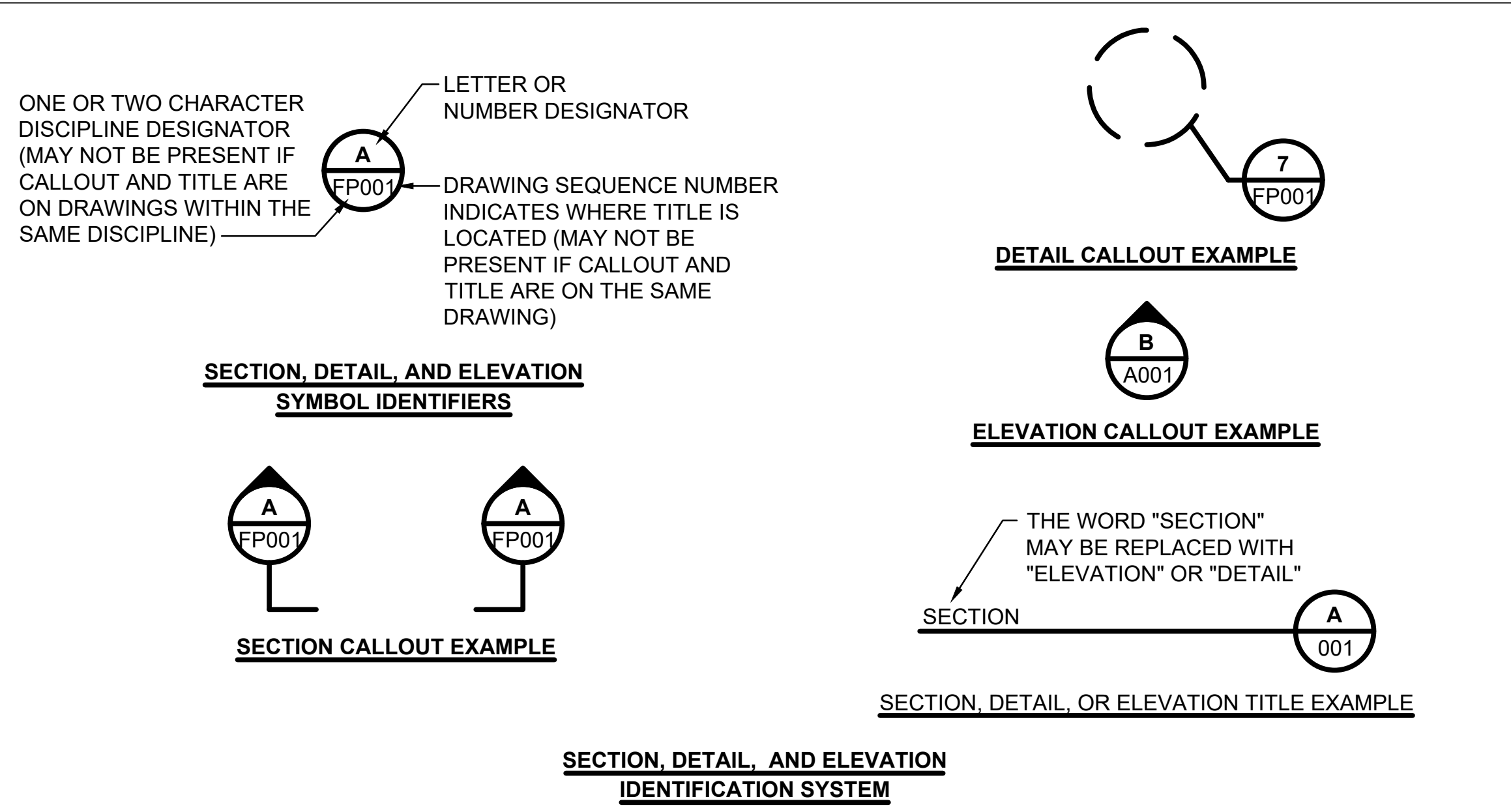
ABBREVIATIONS:

AC	ADVISORY CIRCULAR
AOA	AIR OPERATIONS AREA
AWOS	AUTOMATED WEATHER OBSERVATION SYSTEM
BM	BENCHMARK
BP	BEGINNING OF PROFILE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CL	CENTERLINE
COMM	COMMUNICATIONS
EA	EACH
EG	EXISTING GROUND
ELEV	ELEVATION
EP	END OF PROFILE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FG	FINISHED GRADE
FOD	FOREIGN OBJECT DEBRIS
FT	FEET
GRS	GALVANIZED RIGID STEEL
GRSC	GALVANIZED RIGID STEEL CONDUIT
HMA	HOT MIX ASPHALT
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
IDOT-DOA	ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS
INV	INVERT
LF	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
NTS	NOT TO SCALE
OC	ON-CENTER
OFA	OBJECT FREE AREA
OFZ	OBSTACLE FREE ZONE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PGE	POROUS GRANULAR EMBANKMENT
PR	PROPOSED
PT	POINT OF TANGENCY
R	RADIUS
RC	REMOVE ADVERSE CROWN
REIL	RUNWAY END IDENTIFIER LIGHTS
RSA	RUNWAY SAFETY AREA
RT	RIGHT
RW	RUNWAY
S	SOUTH
SCH	SCHEDULE
STA	STATION
SW	SOUTHWEST
SY	SQUARE YARD
TBM	TEMPORARY BENCHMARK
TS	TOPSOIL
TSA	TAXILANE/TAXIWAY SAFETY AREA
TW	TAXIWAY
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VC	VERTICAL CURVE
VERT	VERTICAL
W	WEST

Scale For Microfilming

Inches

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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

BURNS MCDONNELL

200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	DECEMBER 28, 2017	detailed	J. YAHYA
designed	S. MCLAUGHLIN	checked	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E

INDEX OF DRAWINGS, SUMMARY OF QUANTITIES AND ABBREVIATIONS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016

drawing **G-001** - **0** rev.

sheet 2 of 38 sheets

file 95601_G-001_INDEX

ACCESS AND SAFETY NOTES:

I. ACCESS AND VEHICLE PARKING:

- A. ACCESS POINT AND HAUL ROUTE FOR ALL CONTRACTOR PERSONNEL, VEHICLES AND EQUIPMENT ARE AS SHOWN ON THE ACCESS, SAFETY AND PHASING PLAN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS AND COORDINATE OFF SITE HAUL ROUTES WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. HAUL ROUTES ARE TO REMAIN CLEAN AT ALL TIMES.
- B. CONTRACTOR SHALL PROVIDE AND INSTALL A PROFESSIONALLY PAINTED SIGN MEETING AIRPORT MANAGER APPROVAL AT THE CONSTRUCTION ENTRANCE TO DIRECT MATERIAL SUPPLIERS AND EMPLOYEES TO THE CONSTRUCTION SITE. THE SIGN SHALL READ "CONSTRUCTION VEHICLES ONLY - NO VENDORS ALLOWED".
- C. ALL CONTRACTOR VEHICLES AND PERSONNEL SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES. NO CONTRACTOR VEHICLES WILL BE ALLOWED ON OTHER AIRFIELD OPERATIONS AREAS.
- D. THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY THE ENGINEER AND AIRPORT MANAGER.
- E. ALL ACCESS GATES SHALL BE KEPT CLOSED DURING CONTRACTOR'S WORK HOURS. THE CONTRACTOR SHALL CLOSE AND LOCK ACCESS GATE AT THE COMPLETION OF EACH WORK DAY. AIRPORT MANAGER WILL PROVIDE LOCK AND KEYS FOR ACCESS GATE.
- F. CONTRACTOR WORK HOURS ARE FROM 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE VILLAGE OF RANTOUL TO CONDUCT WORK OUTSIDE OF THE DESIGNATED WORK HOURS.

II. COORDINATION AND COMMUNICATION DURING CONSTRUCTION:

- A. CONTRACTOR SHALL ADVISE AND THEN VERIFY WITH RESIDENT ENGINEER 72 HOURS IN ADVANCE AS TO THE NEED FOR NOTICES TO AIRMEN (NOTAMS). NO RUNWAY, TAXIWAY OR APRON SHALL BE CLOSED WITHOUT APPROVAL FROM THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
- B. CONTRACTOR SHALL APPOINT A CONSTRUCTION SUPERINTENDENT, SUBJECT TO THE APPROVAL OF THE AIRPORT MANAGER, WHO SHALL BE PRESENT ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE JOB IS IN PROGRESS. THE SUPERINTENDENT SHALL BE DESIGNATED THE RESPONSIBLE CONTRACTOR'S REPRESENTATIVE WHO SHALL BE AVAILABLE ON A 24-HOUR BASIS.
- C. PRIOR TO CONSTRUCTION IN THE RESPECTIVE WORK AREAS, THE CONTRACTOR SHALL CORDON OFF THE WORK AREA AS SHOWN ON DRAWING G-101 THROUGH G-104 BY USING BARRICADES AS DETAILED ON G-101. CONTRACTOR SHALL MAINTAIN, MOVE AND REMOVE BARRICADES (AS DIRECTED) TO DELINEATE AREAS CLOSED TO AIRCRAFT TRAFFIC.
- D. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO AIRPORT MANAGER THE NAME AND TELEPHONE NUMBER OF THE INDIVIDUAL(S) WHO WILL BE ON CALL 24 HOURS PER DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING & BARRICADES.
- E. CONTRACTOR SHALL FURNISH AN AIRPORT RADIO AND CONTINUOUSLY MONITOR AIRCRAFT TRAFFIC ON AND AROUND THE AIRPORT. THE FREQUENCY FOR LOCAL TRAFFIC IS 123.0 MHZ.

F. THE FOLLOWING CONTACT INFORMATION IS PROVIDED FOR CONTRACTOR'S USE IN CASE OF EMERGENCY:

EMERGENCY
911

RANTOUL MUNICIPAL BUILDING
(217) 892-6800

RANTOUL NATIONAL AVIATION CENTER
AIRPORT MANAGER, ERIC VENCES
(217) 892-6896

RANTOUL PUBLIC WORKS DEPARTMENT
(ELECTRIC, GAS, WATER & SEWER)
GREG HAZEL
(217) 892-6526

VERIZON COMMUNICATIONS
JOE BIRCH
(217) 892-3338, (217) 493-7786

OTHER CONTACTS AS DIRECTED AT
PRE-CONSTRUCTION MEETING

G. PRIOR TO THE COMPLETION OF EACH WORK DAY, ALL AIRFIELD PAVEMENT SURFACES WITHIN AND ADJACENT TO THE WORK AREA AND THOSE USED AS HAUL ROUTES SHALL BE SWEEPED CLEAN.

H. PRIOR TO THE OPENING OF A CLOSED RUNWAY OR TAXIWAY, THE CONTRACTOR SHALL REQUEST THE ENGINEER TO SCHEDULE AN INSPECTION. NO TAXIWAY OR RUNWAY SHALL BE RE-OPENED UNTIL THE ENGINEER AND THE AIRPORT MANAGER HAS COMPLETED INSPECTION AND APPROVED THE RE-OPENING OF ACTIVE AREAS.

III. TRAFFIC CONTROL:

- A. ALL CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE MARKED WITH COMPANY PAINT DESIGNS, INSIGNIAS OR OTHER COMPANY MARKINGS, WHICH ARE CLEARLY VISIBLE. CONTRACTOR SHALL PROVIDE EACH VEHICLE WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHOULD BE AT LEAST 3 FOOT SQUARE, AND HAVE A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE.
- B. CONSTRUCTION EQUIPMENT SHALL HAVE AUTOMATIC SIGNALING DEVICES TO SOUND AN ALARM WHEN MOVING IN REVERSE.
- C. ONLY RUBBER Tired VEHICLES WILL BE ALLOWED ON PAVEMENT.
- D. NO PEDESTRIAN TRAFFIC OUTSIDE THE CONSTRUCTION WORK SITE WILL BE PERMITTED.
- E. ANY DAMAGE TO AIRPORT ROADS, AIRFIELD PAVEMENT, PARKING AREAS, STORAGE AREAS OR TURF AREAS DUE TO CONSTRUCTION EQUIPMENT OR CONSTRUCTION TRAFFIC SHALL BE REPAIRED TO ORIGINAL CONDITION TO THE SATISFACTION OF AND AT NO EXPENSE TO THE OWNER.
- F. ANY WORKERS AND/OR EQUIPMENT NOT IN COMPLIANCE WITH SAFETY PLAN SHALL IMMEDIATELY BE REMOVED FROM THE WORK AREA AND THEY WILL NOT BE PERMITTED TO WORK ON THE SITE THROUGHOUT THE REMAINDER OF THE PROJECT.

IV. EQUIPMENT AND STOCKPILE HEIGHT:

- A. THE MAXIMUM ALLOWABLE HEIGHT OF CONSTRUCTION EQUIPMENT OPERATING IN THE AOA IS 20'. HOWEVER, EQUIPMENT MUST NOT PENETRATE THE OFZ OF ANY ACTIVE RUNWAY AS DEFINED IN FAA AC 150/5300-13A, CURRENT VERSION.
- B. CONTRACTOR SHALL NOT STOCKPILE CONSTRUCTION MATERIALS, SPOILS, DEBRIS OR REFUSE IN ANY AREA WHERE SUCH STOCKPILES WOULD PENETRATE APPROACH SURFACES. STOCKPILING OF MATERIAL WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY OR TAXIWAY IS PROHIBITED.
- C. ALL STOCKPILES ADJACENT TO ACTIVE RUNWAY SAFETY AREAS OR OBSTACLE FREE ZONES SHALL BE IDENTIFIED WITH A 360 DEGREE RED OBSTRUCTION LIGHT PLACED AT THE HIGHEST POINT OF THE STOCKPILE.
- D. STOCKPILED MATERIAL SHALL BE CONTAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT PROP WASH OR WIND CONDITIONS. IN ADDITION, STOCKPILED MATERIAL SHALL HAVE SILT FENCE PLACED AROUND IT TO PREVENT FOD FROM MOVING ONTO THE AIRFIELD PAVEMENTS OR POLLUTING WATERCOURSES.

V. EXCAVATION AND TRENCHES:

- A. OPEN TRENCHES AND EXCAVATIONS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE BARRICADES WITH FLASHING RED LIGHTS ACCEPTABLE TO THE AIRPORT MANAGER.
- B. ALL CONSTRUCTION AREAS THAT POSE A HAZARD TO OPERATING AIRCRAFT SHALL BE PROPERLY MARKED WITH LOW-PROFILE BARRICADES.
- C. ALL BARRICADES LOCATED WITHIN OR ADJACENT TO AREAS OF AIRCRAFT OPERATION SHALL BE LOW PROFILE TYPE AS DETAILED ON G-101.
- D. LOW PROFILE BARRICADES SHALL BE KEPT OUTSIDE THE LIMITS OF ANY ACTIVE RUNWAY SAFETY AREA OR TAXIWAY SAFETY AREA.

VI. OTHER SAFETY REQUIREMENTS:

- A. CONTRACTOR SHALL MAINTAIN SAFETY PRACTICES THAT CONFORM TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
- B. DEBRIS - WASTE AND LOOSE MATERIALS CAPABLE OF CAUSING DAMAGE TO AIRCRAFT AND HELICOPTER LANDING GEAR, PROPELLERS AND ROTORS SHALL NOT BE LEFT WITHIN ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY.
- C. THE CONTRACTOR SHALL CONTROL BLOWING DUST FROM ANY HAUL ROUTE OR WORK AREA REGARDLESS OF SOURCE.

VII. CONTRACTOR SAFETY PLAN SUBMITTALS:

- A. CONTRACTOR SHALL FURNISH A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) THAT PROVIDES DETAILED INFORMATION REGARDING COMPLIANCE WITH THE PROJECT SAFETY PLAN IN CONJUNCTION WITH HIS/HER PROJECT SCHEDULE. CONTRACTOR SHALL PROVIDE SPCD 7 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS:
 - 1. PROPOSED ACCESS POINTS, STAGING AREA AND HAUL ROUTES.
 - 2. ANY TEMPORARY MARKINGS TO BE USED.
 - 3. THE LOCATION AND TYPE OF BARRICADES OR OTHER TRAFFIC CONTROL DEVICES.
 - 4. AREAS TO WHICH CONSTRUCTION OPERATIONS WILL BE LIMITED, ALONG WITH PROPOSED MEASURES TO MINIMIZE THE POSSIBILITY OF CONTRACTOR EQUIPMENT AND/OR WORKERS ACCIDENTALLY ENTERING ANY AOA.
 - 5. ANY REQUESTED TEMPORARY AMENDMENTS TO THE AIRPORT SECURITY PLAN FOR SPECIAL CONDITION OR MODIFICATIONS.
- B. CONTRACTOR SPCD SHALL COMPLY WITH ALL REQUIREMENTS INDICATED IN THESE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND FAA ADVISORY CIRCULAR (AC) 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, CURRENT EDITION.

GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, FEES AND LICENSES FOR CONSTRUCTION AND EQUIPMENT.
2. TRAFFIC MAINTENANCE, INCLUDING BUT NOT LIMITED TO, BARRICADES, RUNWAY CLOSURE MARKINGS, ETC SHALL BE PAID FOR UNDER PAY ITEM NO. AR150530.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTANT COORDINATION BETWEEN THE SUBCONTRACTORS AND THE ENGINEER. ALL CONSTRUCTION ACTIVITIES PLANNED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND OWNER.
4. LIMITS OF WORK SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK.
5. THERE SHALL BE NO PERMANENT WASTE SITES ON AIRPORT PROPERTY. ANY TEMPORARY WASTE AREA WILL BE APPROVED BY THE ENGINEER AND SHALL BE KEPT IN A NEAT CONDITION. THE OWNER MAY DIRECT THE CONTRACTOR TO REMOVE WASTE IF NOT PROPERLY MAINTAINED.
6. PRIOR TO COMPLETION OF THE PROJECT THE CONTRACTOR SHALL RESTORE ALL DAMAGED AREAS (NOT DESIGNATED FOR CONSTRUCTION) TO THEIR PRE-CONSTRUCTION CONDITION.
7. LOCATING, FLAGGING, AND PROTECTING THE EXISTING UTILITIES DURING THE DURATION OF THE CONSTRUCTION PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATIONS OF THE EXISTING UTILITIES ON THE CONTRACT DRAWINGS WERE OBTAINED FROM EXISTING RECORDS AND NO GUARANTEE OF ACCURACY OR SUFFICIENCY FOR THIS INFORMATION IS ASSUMED BY THE OWNER OR ENGINEER. ANY DAMAGE TO ANY EXISTING UTILITIES WILL BE REPAIRED OR REPLACED TO THE SATISFACTION OF AND AT NO EXPENSE TO THE OWNER.
8. THE CONSTRUCTION COVERED BY THE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE FAA, IDOT AND IDOT-DOA.
9. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE ENGINEER.

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

Millimeters

Scale For Microfinishing

Inches

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200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	JANUARY 3, 2018	detailed	J. YAHYA
designed	S. MCLAUGHLIN	checked	B. QUINLAN

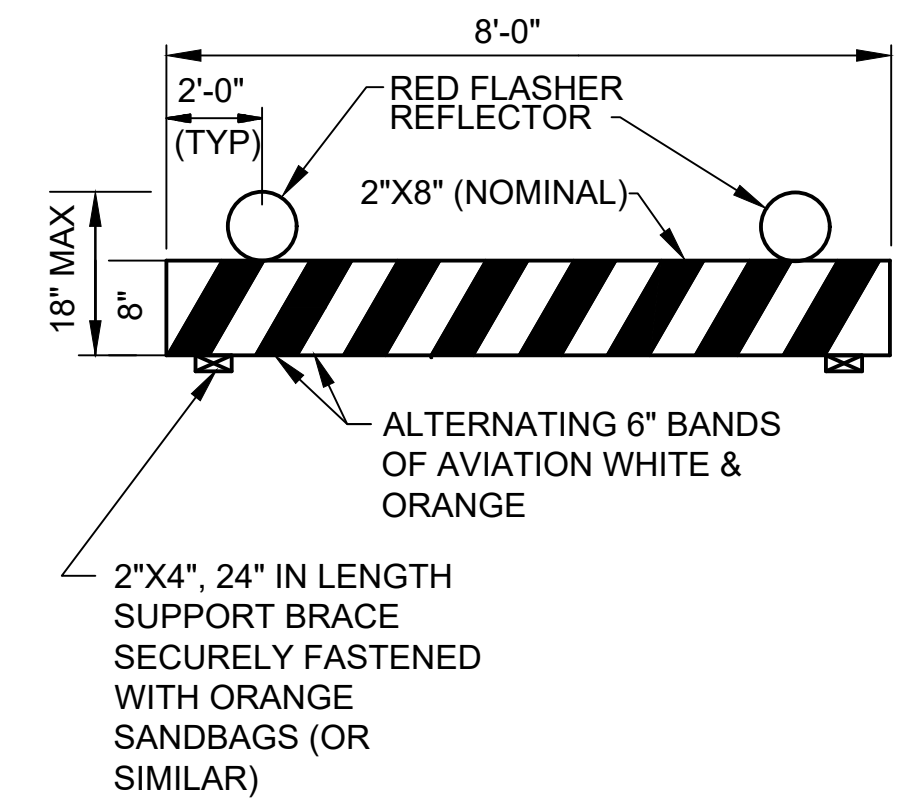
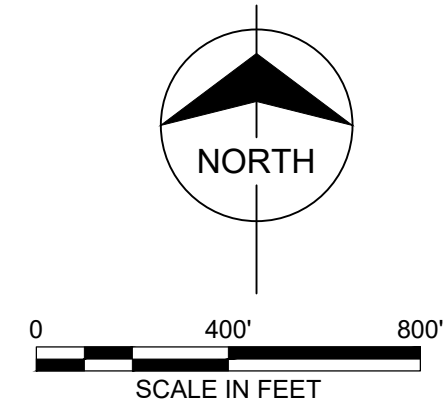


RECONSTRUCT AND REALIGN TAXIWAY E
CONSTRUCTION ACCESS
AND SAFETY NOTES

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
G-002	- 0
sheet 3	of 38 sheets
file 95601_G-002_ACCESS NOTES	

THRESHOLD LOCATION TABLE			
RUNWAY THRESHOLD	LATITUDE	LONGITUDE	ELEVATION
9	40° 17' 31.11841"	88° 08' 59.62096"	735.52
27	40° 17' 31.47419"	88° 07' 55.09473"	728.47
36	40° 17' 18.94840"	88° 08' 37.87045"	733.43
18	40° 18' 07.31820"	88° 08' 37.90095"	736.88

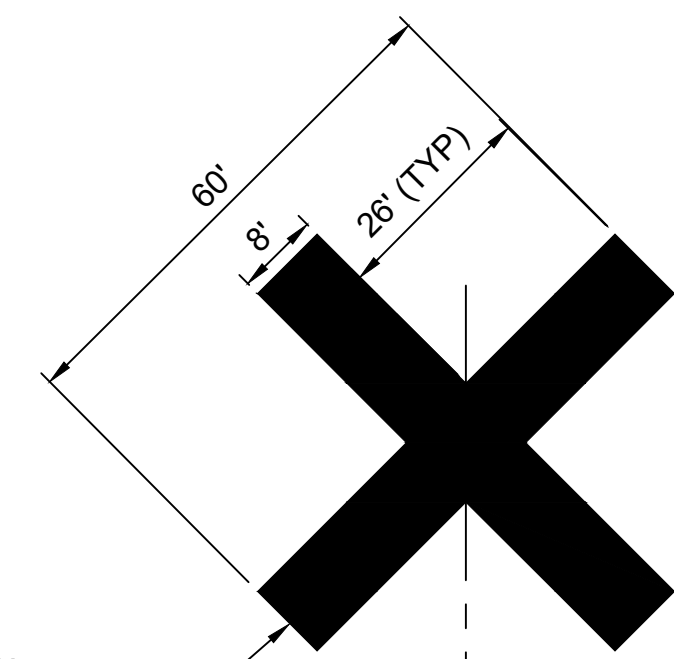
- LEGEND**
- CONTRACTOR ACCESS ROUTE
 - LOW PROFILE BARRICADES
 - RUNWAY CLOSURE
 - CP-# CRITICAL POINT



LOW PROFILE BARRICADE

DETAIL 1
NOT TO SCALE

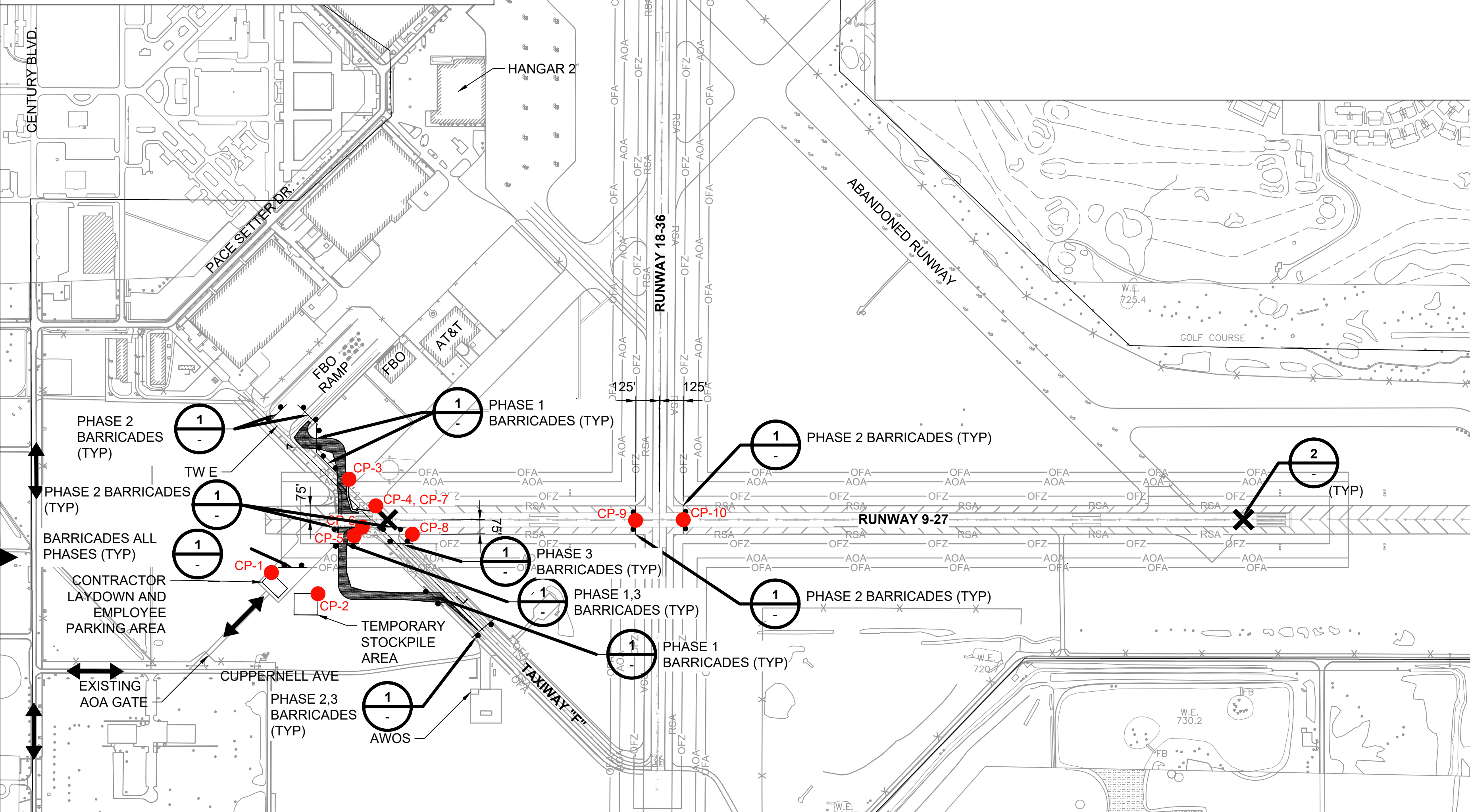
NOTE:
BARRICADES SHALL BE PLACED ACROSS THE FULL LENGTH OF THE INTERFACE BETWEEN THE WORK AREA AND THE AIR OPERATIONS AREA WITH GAPS NOT EXCEEDING 5 FEET.



FAA RUNWAY CLOSED SYMBOL

DETAIL 2
NOT TO SCALE

NOTE:
CLOSED RUNWAY CROSS TO BE CONSTRUCTED OF PLYWOOD, DOUBLE-LAYERED PAINTED SNOW FENCE, COLORED PLASTIC, OR SIMILAR MATERIAL APPROVED BY ENGINEER. CROSS SHALL BE CONSTRUCTED FOR TEMPORARY USE AND EASY REMOVAL, AND NOT SUBJECT TO MOVEMENT BY WIND. ANCHOR WITH SAND BAGS AS REQUIRED. CROSS SHALL BE PLACED OVER RUNWAY NUMERALS.



Scale For Microfilming
Millimeters
Inches

CRITICAL POINT DATA TABLE

POINT	DESCRIPTION	PHASE	MOBILITY	GROUND ELEVATION	OBJECT ELEVATION	LATITUDE	LONGITUDE	RUNWAY 9-27 STATION	RUNWAY 9-27 OFFSET	RUNWAY 9-27 EXIST. EL.	RUNWAY 18-36 STATION	RUNWAY 18-36 OFFSET	RUNWAY 18-36 EXIST. EL.
CP-1	CONTRACTOR'S CONSTRUCTION STORAGE	ALL	STATIONARY	733.81	753.81	40°17'28.37"	88°09'04.13"	22+51	274.76	734.74	110+20	2034.49	734.01
CP-2	TEMPORARY STOCKPILE	ALL	STATIONARY	734.68	754.68	40°17'27.29"	88°09'00.97"	24+96	387.53	734.90	109+11	1789.21	733.37
CP-3	CONSTRUCTION EQUIPMENT	1	MOVING	734.30	754.30	40°17'33.24"	88°08'58.92"	26+53	213.20	735.14	115+13	1630.38	735.00
CP-4	CONSTRUCTION EQUIPMENT	1	MOVING	734.47	754.47	40°17'28.66"	88°08'58.42"	27+95	73.60	735.40	113+74	1489.16	735.23
CP-5	CONSTRUCTION EQUIPMENT	1	MOVING	734.38	754.38	40°17'30.31"	88°08'58.55"	26+82	82.93	735.09	112+17	1601.79	734.65
CP-6	CONSTRUCTION EQUIPMENT	2	MOVING	734.72	754.72	40°17'31.87"	88°08'57.09"	27+25	37.83	735.10	112+62	1558.62	735.00
CP-7	CONSTRUCTION EQUIPMENT	2	MOVING	734.47	754.47	40°17'31.87"	88°08'57.09"	27+95	73.60	735.40	113+74	1489.16	735.23
CP-8	CONSTRUCTION EQUIPMENT	3	MOVING	734.16	754.16	40°17'30.41"	88°08'54.61"	29+88	75.16	734.84	112+27	1296.16	734.67
CP-9	CONSTRUCTION BARRICADES	2	STATIONARY	735.57	736.24	40°17'31.21"	88°08'39.50"	41+59	0	735.57	113+14	125.00	735.27
CP-10	CONSTRUCTION BARRICADES	2	STATIONARY	734.64	735.31	40°17'31.27"	88°08'36.27"	44+09	0	734.64	113+14	125.00	735.27

- NOTES:**
- A. WORK MUST BE STAGED AND CONTROLLED.
 - B. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT 20 FEET FOR ALL WORK, EXCEPT BY PRIOR APPROVAL OF THE ENGINEER.
 - C. CLOSURES TO THE TAXIWAY AND RUNWAY SHALL BE COORDINATED WITH THE AIRPORT MANAGER. SEE SAFETY NOTES.
 - D. COORDINATES ARE IN NAD83 FOR HORIZONTAL AND NAVD88 FOR VERTICAL.
 - E. STATIONS, OFFSETS AND ELEVATIONS ARE SHOWN IN FEET.

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

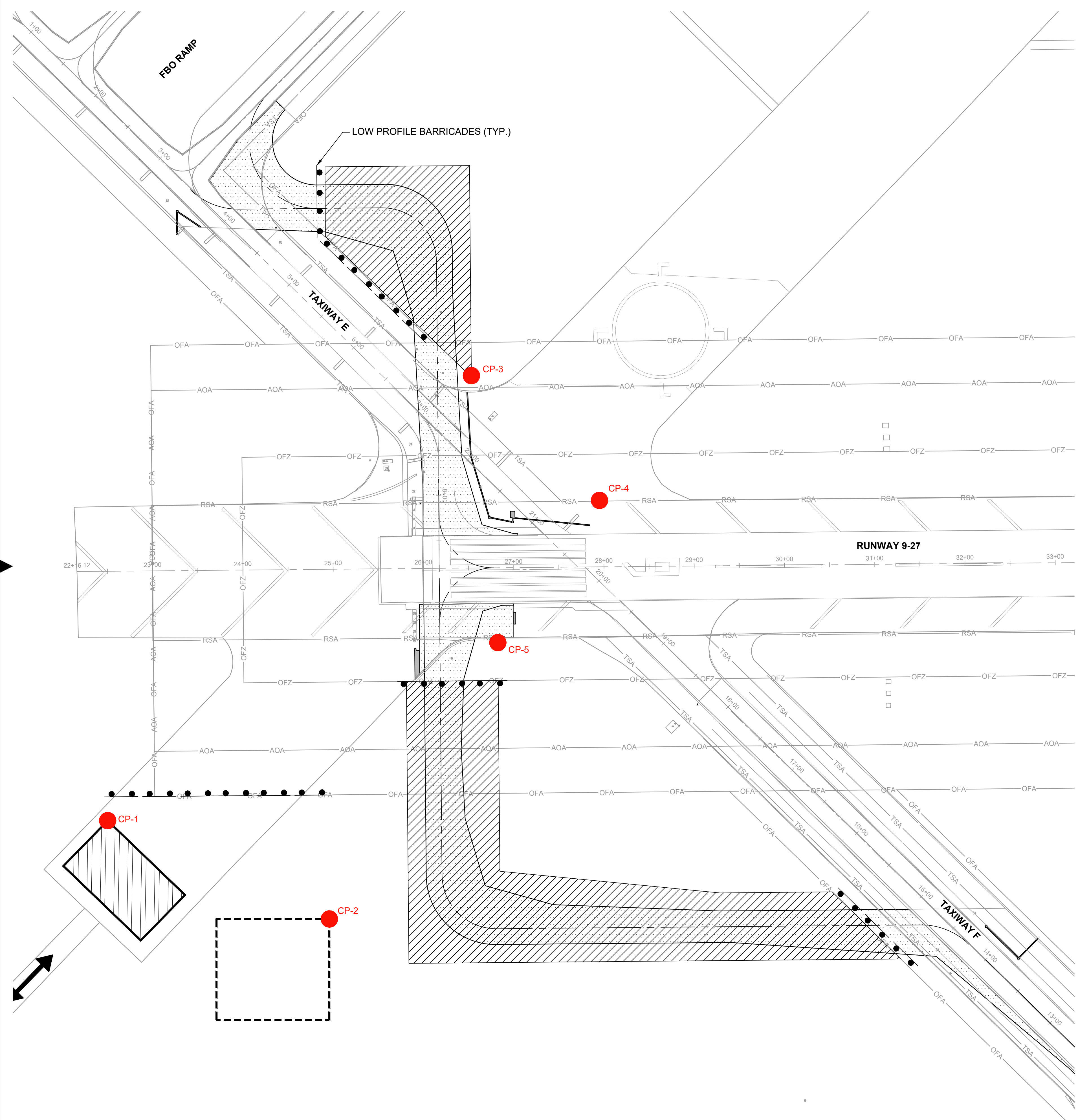
date	JANUARY 3, 2018	detailed	J. YAHYA
designed	S. MCLAUGHLIN	checked	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E
CONSTRUCTION ACCESS,
SAFETY AND PHASING PLAN

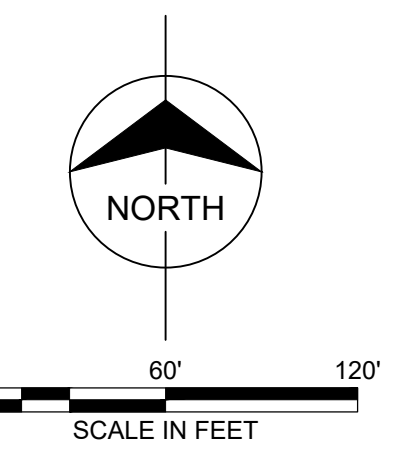
IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
G-101	0
sheet 4 of 38 sheets	file 95601_G-101_ACCESS PLAN

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SAFETY & PHASING NARRATIVE

PHASE 1 - NO CLOSURES
 DURATION: 60 CALENDAR DAYS
 MAJOR WORK ITEMS:
 - PLACE AND MAINTAIN BARRICADES / REMOVE BARRICADES
 - INSTALLATION OF EROSION AND SEDIMENT CONTROL
 - DEMOLITION OF EXISTING PAVEMENTS
 - CLEARING AND GRUBBING
 - EARTHWORK
 - AGGREGATE BASE COURSE
 - ASPHALT PAVING
 - TAXIWAY EDGE LIGHTING
 - LANDSCAPING
 GENERAL SAFETY REQUIREMENTS:
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-002



- LEGEND**
- CONTRACTOR ACCESS ROUTE
 - LOW PROFILE BARRICADES
 - CP-# CRITICAL POINT
 - PROPOSED IMPROVEMENTS
 - PHASE 1 WORK AREA
 - CONTRACTOR LAYDOWN AND EMPLOYEE PARKING AREA
 - TEMPORARY STOCKPILE LOCATION

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

BURNS MEDONNELL
 200 W ADAMS ST. STE 2601
 CHICAGO, IL 60606
 312-223-0920
 LICENSEE NO. 184-001310

date JANUARY 3, 2018	detailed J. YAHYA
designed S. MCLAUGHLIN	checked B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
 ENLARGED PHASING PLAN
 PHASE 1**

IL Proj. No. TIP-4579	contract RA016
BMCD Proj. No. 95601	rev. G-102 - 0
drawing	sheet 5 of 38 sheets
file 95601_G-102_PHASING PLAN	

Scale For Microfilming
 Millimeters

Inches

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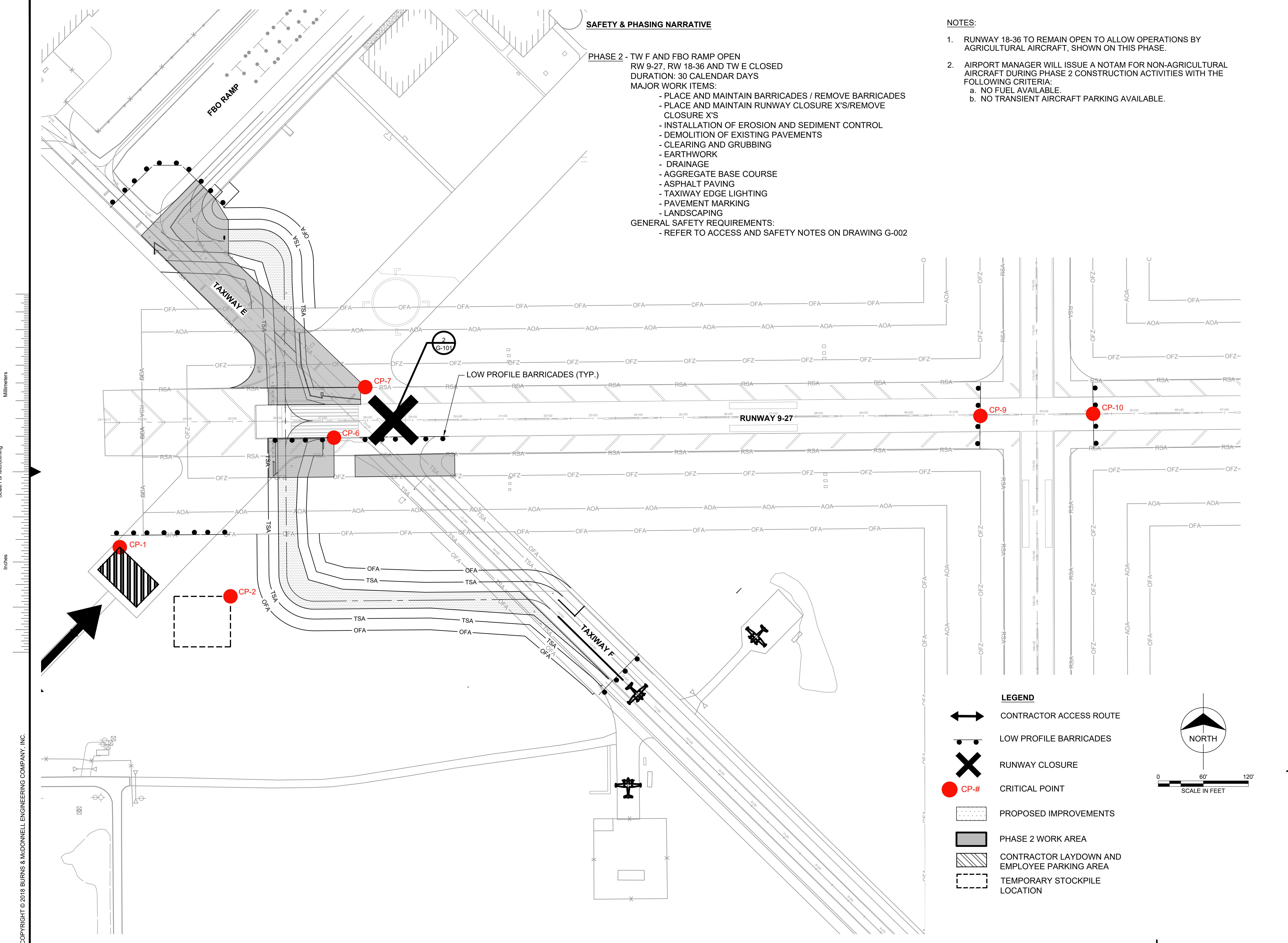
SAFETY & PHASING NARRATIVE

PHASE 2 - TW F AND FBO RAMP OPEN
 RW 9-27, RW 18-36 AND TW E CLOSED
 DURATION: 30 CALENDAR DAYS
 MAJOR WORK ITEMS:
 - PLACE AND MAINTAIN BARRICADES / REMOVE BARRICADES
 - PLACE AND MAINTAIN RUNWAY CLOSURE X'S/REMOVE CLOSURE X'S
 - INSTALLATION OF EROSION AND SEDIMENT CONTROL
 - DEMOLITION OF EXISTING PAVEMENTS
 - CLEARING AND GRUBBING
 - EARTHWORK
 - DRAINAGE
 - AGGREGATE BASE COURSE
 - ASPHALT PAVING
 - TAXIWAY EDGE LIGHTING
 - PAVEMENT MARKING
 - LANDSCAPING
 GENERAL SAFETY REQUIREMENTS:
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-002

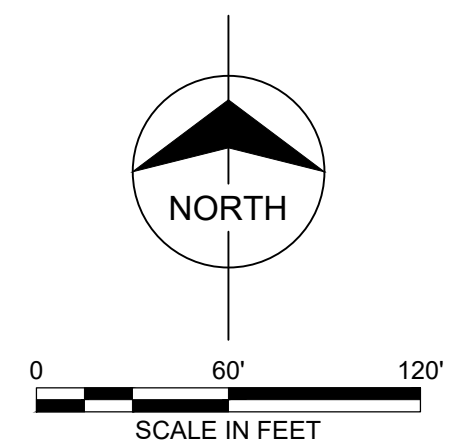
NOTES:

1. RUNWAY 18-36 TO REMAIN OPEN TO ALLOW OPERATIONS BY AGRICULTURAL AIRCRAFT, SHOWN ON THIS PHASE.
2. AIRPORT MANAGER WILL ISSUE A NOTAM FOR NON-AGRICULTURAL AIRCRAFT DURING PHASE 2 CONSTRUCTION ACTIVITIES WITH THE FOLLOWING CRITERIA:
 - a. NO FUEL AVAILABLE.
 - b. NO TRANSIENT AIRCRAFT PARKING AVAILABLE.

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



- LEGEND**
- CONTRACTOR ACCESS ROUTE
 - LOW PROFILE BARRICADES
 - RUNWAY CLOSURE
 - CP-# CRITICAL POINT
 - PROPOSED IMPROVEMENTS
 - PHASE 2 WORK AREA
 - CONTRACTOR LAYDOWN AND EMPLOYEE PARKING AREA
 - TEMPORARY STOCKPILE LOCATION



BURNS MEDONNELL

200 W ADAMS ST. STE 2601
 CHICAGO, IL 60606
 312-223-0920
 LICENSEE NO. 184-001310

date	MARCH 16, 2018	detailed	S. MCLAUGHLIN
designed	S. MCLAUGHLIN	checked	B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
 ENLARGED PHASING PLAN
 PHASE 2**

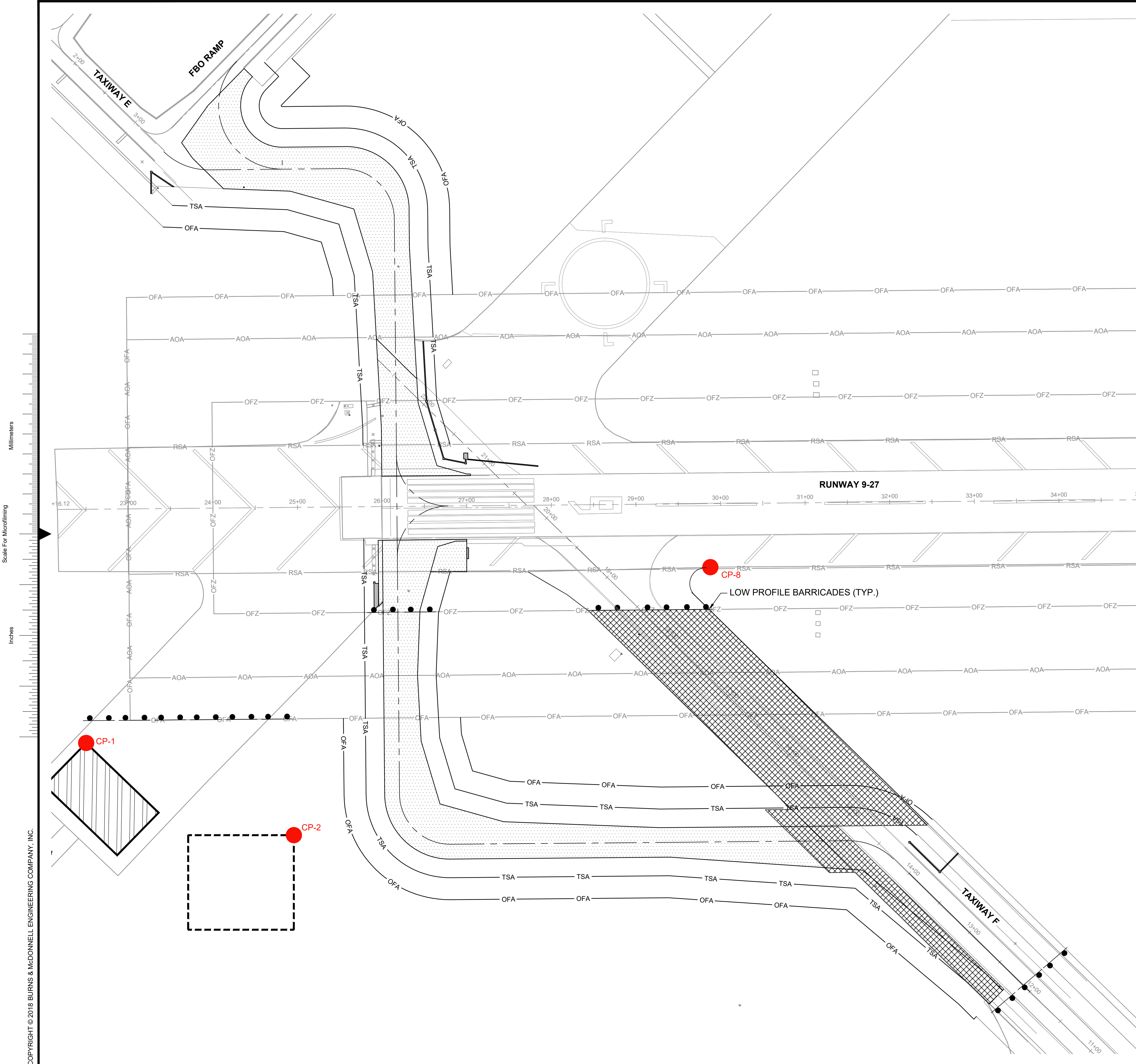
IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
G-103	0
sheet 6 of 38 sheets	
file 95601_G-103_PHASING PLAN	

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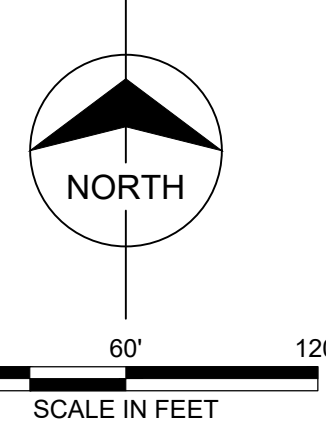
no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

SAFETY & PHASING NARRATIVE

PHASE 3: - RW 9-27, RW 18-36, TW E AND FBO RAMP 2 OPEN
 TW F CLOSED
 DURATION: 21 CALENDAR DAYS
 MAJOR WORK ITEMS:
 - PLACE AND MAINTAIN BARRICADES / REMOVE BARRICADES
 - INSTALLATION OF EROSION AND SEDIMENT CONTROL
 - DEMOLITION OF EXISTING PAVEMENTS
 - CLEARING AND GRUBBING
 SAFETY REQUIREMENTS:
 - PLACE AND MAINTAIN BARRICADES / REMOVE BARRICADES
 GENERAL SAFETY REQUIREMENTS:
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-002



Scale For Microfilming
 Millimeters
 Inches



- LEGEND**
- CONTRACTOR ACCESS ROUTE
 - LOW PROFILE BARRICADES
 - CP-# CRITICAL POINT
 - PROPOSED IMPROVEMENTS
 - PHASE 3 WORK AREA
 - CONTRACTOR LAYDOWN AND EMPLOYEE PARKING AREA
 - TEMPORARY STOCKPILE LOCATION



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 CHICAGO, IL 60606
 312-223-0920
 LICENSEE NO. 184-001310

date	MARCH 16, 2018	detailed	S. MACLAUGHLIN
designed	S. MACLAUGHLIN	checked	B. QUINLAN


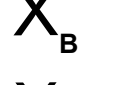


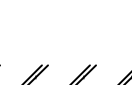

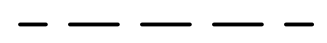
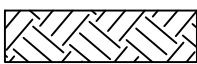

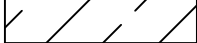


**RECONSTRUCT AND REALIGN TAXIWAY E
 ENLARGED PHASING PLAN
 PHASE 3**

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
G-104	0
sheet 7 of 38 sheets	
file 95601_G-104_PHASING PLAN	

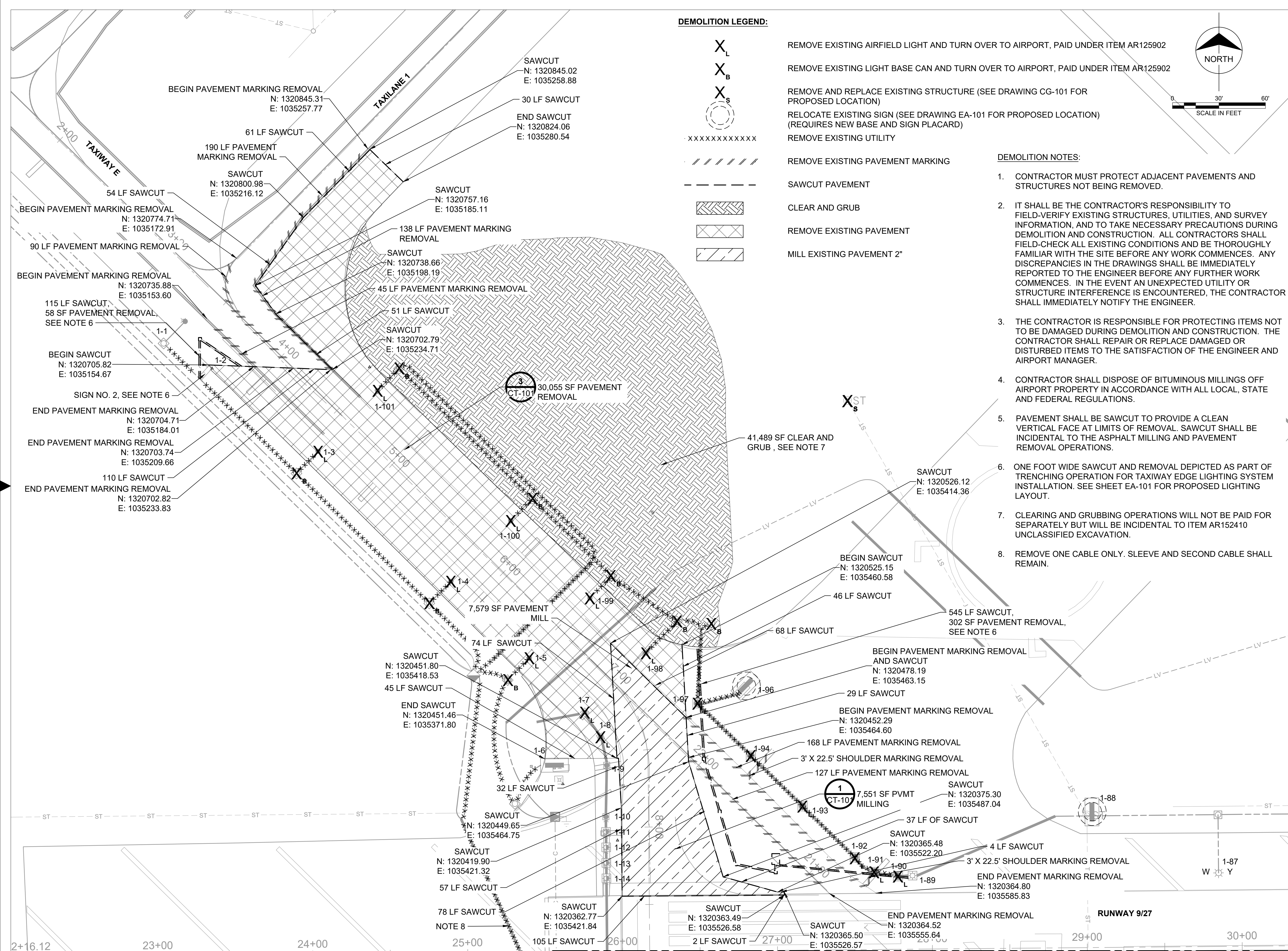
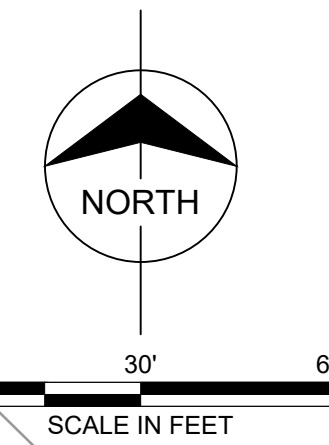
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DEMOLITION LEGEND:

-  REMOVE EXISTING AIRFIELD LIGHT AND TURN OVER TO AIRPORT, PAID UNDER ITEM AR125902
-  REMOVE EXISTING LIGHT BASE CAN AND TURN OVER TO AIRPORT, PAID UNDER ITEM AR125902
-  REMOVE AND REPLACE EXISTING STRUCTURE (SEE DRAWING CG-101 FOR PROPOSED LOCATION)
-  RELOCATE EXISTING SIGN (SEE DRAWING EA-101 FOR PROPOSED LOCATION) (REQUIRES NEW BASE AND SIGN PLACARD)
-  REMOVE EXISTING UTILITY
-  REMOVE EXISTING PAVEMENT MARKING
-  SAWCUT PAVEMENT
-  CLEAR AND GRUB
-  REMOVE EXISTING PAVEMENT
-  MILL EXISTING PAVEMENT 2"

DEMOLITION NOTES:

1. CONTRACTOR MUST PROTECT ADJACENT PAVEMENTS AND STRUCTURES NOT BEING REMOVED.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY EXISTING STRUCTURES, UTILITIES, AND SURVEY INFORMATION, AND TO TAKE NECESSARY PRECAUTIONS DURING DEMOLITION AND CONSTRUCTION. ALL CONTRACTORS SHALL FIELD-CHECK ALL EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE SITE BEFORE ANY WORK COMMENCES. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE ANY FURTHER WORK COMMENCES. IN THE EVENT AN UNEXPECTED UTILITY OR STRUCTURE INTERFERENCE IS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ITEMS NOT TO BE DAMAGED DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED OR DISTURBED ITEMS TO THE SATISFACTION OF THE ENGINEER AND AIRPORT MANAGER.
4. CONTRACTOR SHALL DISPOSE OF BITUMINOUS MILLINGS OFF AIRPORT PROPERTY IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
5. PAVEMENT SHALL BE SAWCUT TO PROVIDE A CLEAN VERTICAL FACE AT LIMITS OF REMOVAL. SAWCUT SHALL BE INCIDENTAL TO THE ASPHALT MILLING AND PAVEMENT REMOVAL OPERATIONS.
6. ONE FOOT WIDE SAWCUT AND REMOVAL DEPICTED AS PART OF TRENCHING OPERATION FOR TAXIWAY EDGE LIGHTING SYSTEM INSTALLATION. SEE SHEET EA-101 FOR PROPOSED LIGHTING LAYOUT.
7. CLEARING AND GRUBBING OPERATIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCIDENTAL TO ITEM AR152410 UNCLASSIFIED EXCAVATION.
8. REMOVE ONE CABLE ONLY. SLEEVE AND SECOND CABLE SHALL REMAIN.



MATCH LINE: SEE SHEET CD-102

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	designed	detailed
FEBRUARY 28, 2018	J. YAHYA	J. YAHYA
checked		
B. QUINLAN		



RECONSTRUCT AND REALIGN TAXIWAY E DEMOLITION PLAN

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016

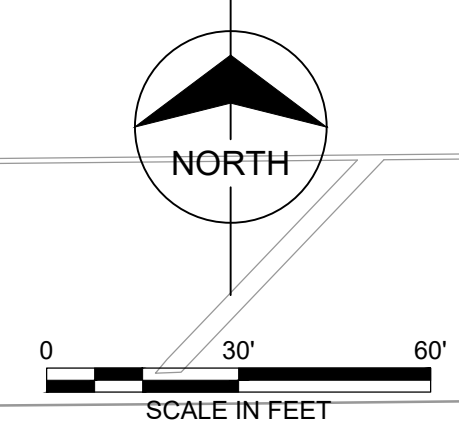
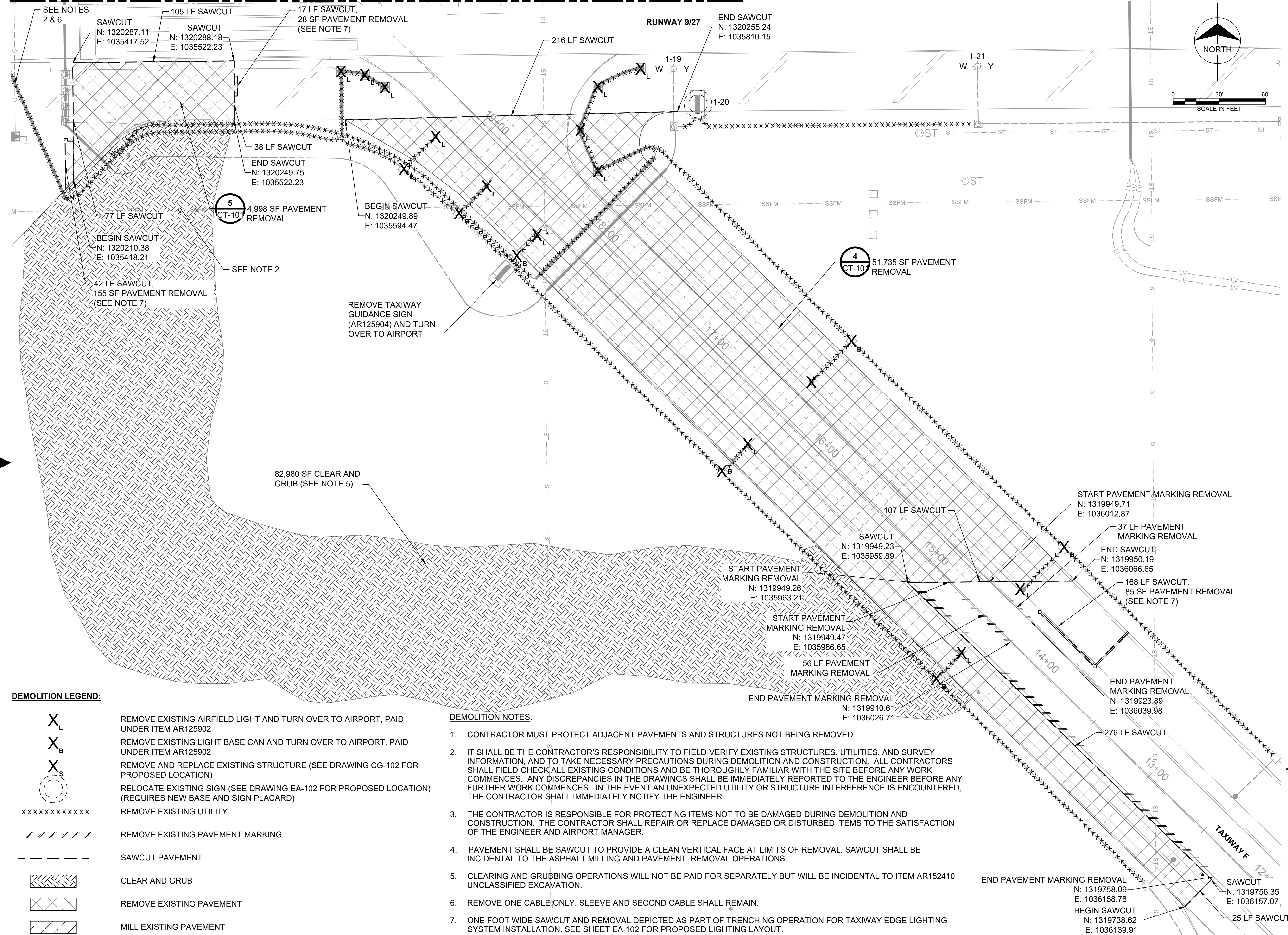
drawing **CD-101** rev. **0**

sheet 8 of 38 sheets
file 95601_CD-101_DEMO PLAN

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MATCH LINE: SEE SHEET CD-101

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



DEMOLITION LEGEND:

- REMOVE EXISTING AIRFIELD LIGHT AND TURN OVER TO AIRPORT, PAID UNDER ITEM AR125902
- REMOVE EXISTING LIGHT BASE CAN AND TURN OVER TO AIRPORT, PAID UNDER ITEM AR125902
- REMOVE AND REPLACE EXISTING STRUCTURE (SEE DRAWING CG-102 FOR PROPOSED LOCATION)
- RELOCATE EXISTING SIGN (SEE DRAWING EA-102 FOR PROPOSED LOCATION) (REQUIRES NEW BASE AND SIGN PLACARD)
- REMOVE EXISTING UTILITY
- REMOVE EXISTING PAVEMENT MARKING
- SAWCUT PAVEMENT
- CLEAR AND GRUB
- REMOVE EXISTING PAVEMENT
- MILL EXISTING PAVEMENT

DEMOLITION NOTES:

1. CONTRACTOR MUST PROTECT ADJACENT PAVEMENTS AND STRUCTURES NOT BEING REMOVED.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY EXISTING STRUCTURES, UTILITIES, AND SURVEY INFORMATION, AND TO TAKE NECESSARY PRECAUTIONS DURING DEMOLITION AND CONSTRUCTION. ALL CONTRACTORS SHALL FIELD-CHECK ALL EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE SITE BEFORE ANY WORK COMMENCES. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE ANY FURTHER WORK COMMENCES. IN THE EVENT AN UNEXPECTED UTILITY OR STRUCTURE INTERFERENCE IS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ITEMS NOT TO BE DAMAGED DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED OR DISTURBED ITEMS TO THE SATISFACTION OF THE ENGINEER AND AIRPORT MANAGER.
4. PAVEMENT SHALL BE SAWCUT TO PROVIDE A CLEAN VERTICAL FACE AT LIMITS OF REMOVAL. SAWCUT SHALL BE INCIDENTAL TO THE ASPHALT MILLING AND PAVEMENT REMOVAL OPERATIONS.
5. CLEARING AND GRUBBING OPERATIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCIDENTAL TO ITEM AR152410 UNCLASSIFIED EXCAVATION.
6. REMOVE ONE CABLE ONLY. SLEEVE AND SECOND CABLE SHALL REMAIN.
7. ONE FOOT WIDE SAWCUT AND REMOVAL DEPICTED AS PART OF TRENCHING OPERATION FOR TAXIWAY EDGE LIGHTING SYSTEM INSTALLATION. SEE SHEET EA-102 FOR PROPOSED LIGHTING LAYOUT.

BURNS MEDONNELL
 200 W ADAMS ST. STE 2601
 CHICAGO, IL 60606
 312-223-0920
 LICENSEE NO. 184-001310

date	designed	detailed
FEBRUARY 28, 2018	J. YAHYA	J. YAHYA
checked		
B. QUINLAN		

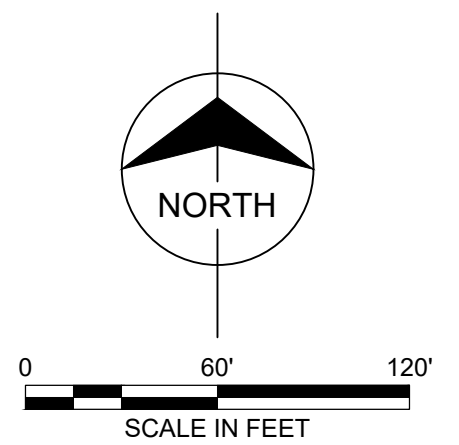


RECONSTRUCT AND REALIGN TAXIWAY E DEMOLITION PLAN

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CD-102	0
sheet 9 of 38 sheets	file 95601_CD-102_DEMO PLAN

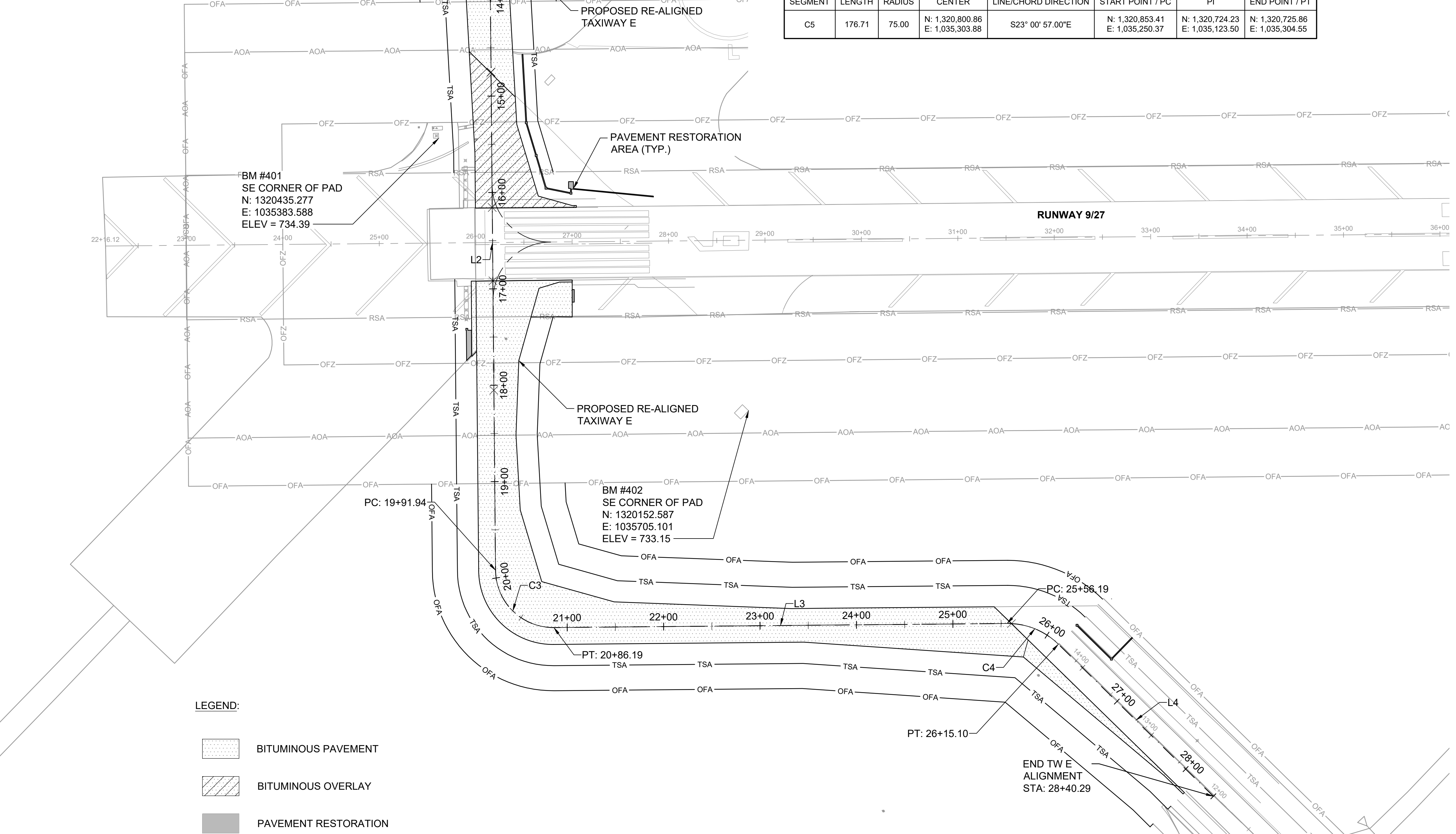
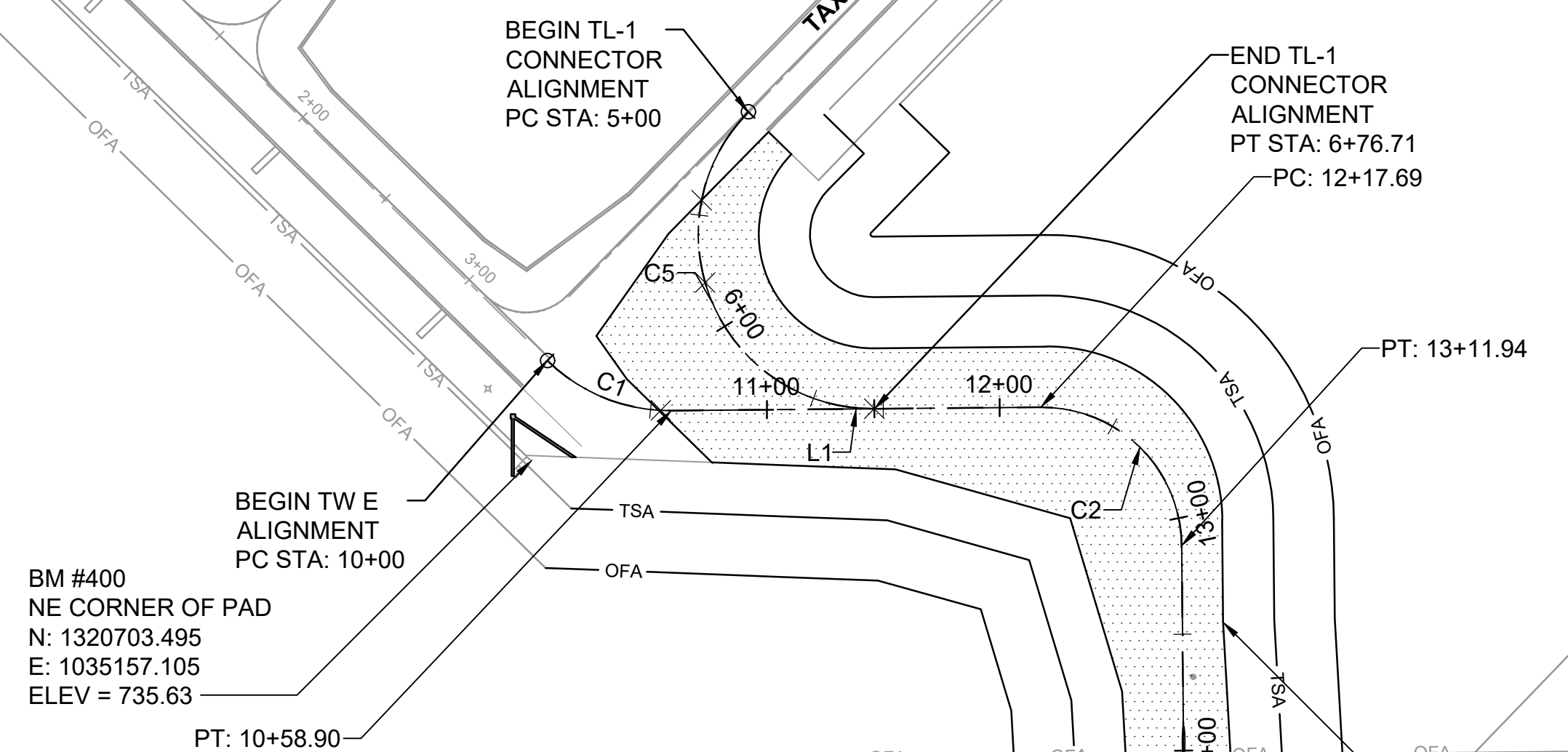
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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



TW E							
SEGMENT	LENGTH	RADIUS	CENTER	LINE/CHORD DIRECTION	START POINT / PC	PI	END POINT / PT
C1	58.90	75.00	N: 1,320,800.07 E: 1,035,216.61	S68° 00' 57.00"E	N: 1,320,746.56 E: 1,035,164.05	N: 1,320,724.80 E: 1,035,186.22	N: 1,320,725.08 E: 1,035,217.28
L1	158.79			N89° 29' 03.00"E	N: 1,320,725.08 E: 1,035,217.28		N: 1,320,726.51 E: 1,035,376.06
C2	94.25	60.00	N: 1,320,666.51 E: 1,035,376.60	S45° 30' 57.00"E	N: 1,320,726.51 E: 1,035,376.06	N: 1,320,727.05 E: 1,035,436.06	N: 1,320,667.05 E: 1,035,436.60
L2	680.00			S00° 30' 57.00"E	N: 1,320,667.05 E: 1,035,436.60		N: 1,319,987.08 E: 1,035,442.72
C3	94.25	60.00	N: 1,319,987.62 E: 1,035,502.72	S45° 30' 56.33"E	N: 1,319,987.08 E: 1,035,442.72	N: 1,319,927.08 E: 1,035,503.26	N: 1,319,927.62 E: 1,035,503.26
L3	470.00			N89° 29' 04.34"E	N: 1,319,927.62 E: 1,035,503.26		N: 1,319,931.85 E: 1,035,973.24
C4	58.90	75.00	N: 1,319,856.85 E: 1,035,973.92	S68° 00' 55.66"E	N: 1,319,931.85 E: 1,035,973.24	N: 1,319,932.13 E: 1,036,004.31	N: 1,319,910.36 E: 1,036,026.47
L4	225.19			S45° 30' 55.66"E	N: 1,319,910.36 E: 1,036,026.47		N: 1,319,752.56 E: 1,036,187.13

TL-1 CONNECTOR							
SEGMENT	LENGTH	RADIUS	CENTER	LINE/CHORD DIRECTION	START POINT / PC	PI	END POINT / PT
C5	176.71	75.00	N: 1,320,800.86 E: 1,035,303.88	S23° 00' 57.00"E	N: 1,320,853.41 E: 1,035,250.37	N: 1,320,724.23 E: 1,035,123.50	N: 1,320,725.86 E: 1,035,304.55



LEGEND:

	BITUMINOUS PAVEMENT
	BITUMINOUS OVERLAY
	PAVEMENT RESTORATION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	designed	checked	detailed
FEBRUARY 28, 2018	J. YAHYA	B. QUINLAN	J. YAHYA



**RECONSTRUCT AND REALIGN TAXIWAY E
OVERALL SITE PLAN**

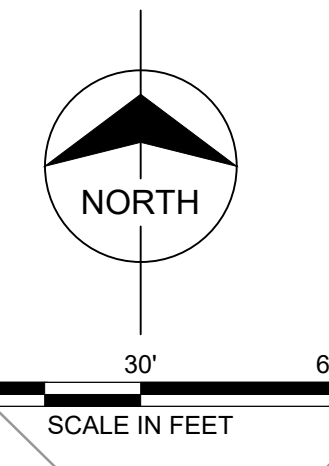
IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CS-100	0
sheet 10 of 38 sheets	file 95601_CS-100_OVERALL SITE PLAN

Scale For Microfining
Millimeters
Inches

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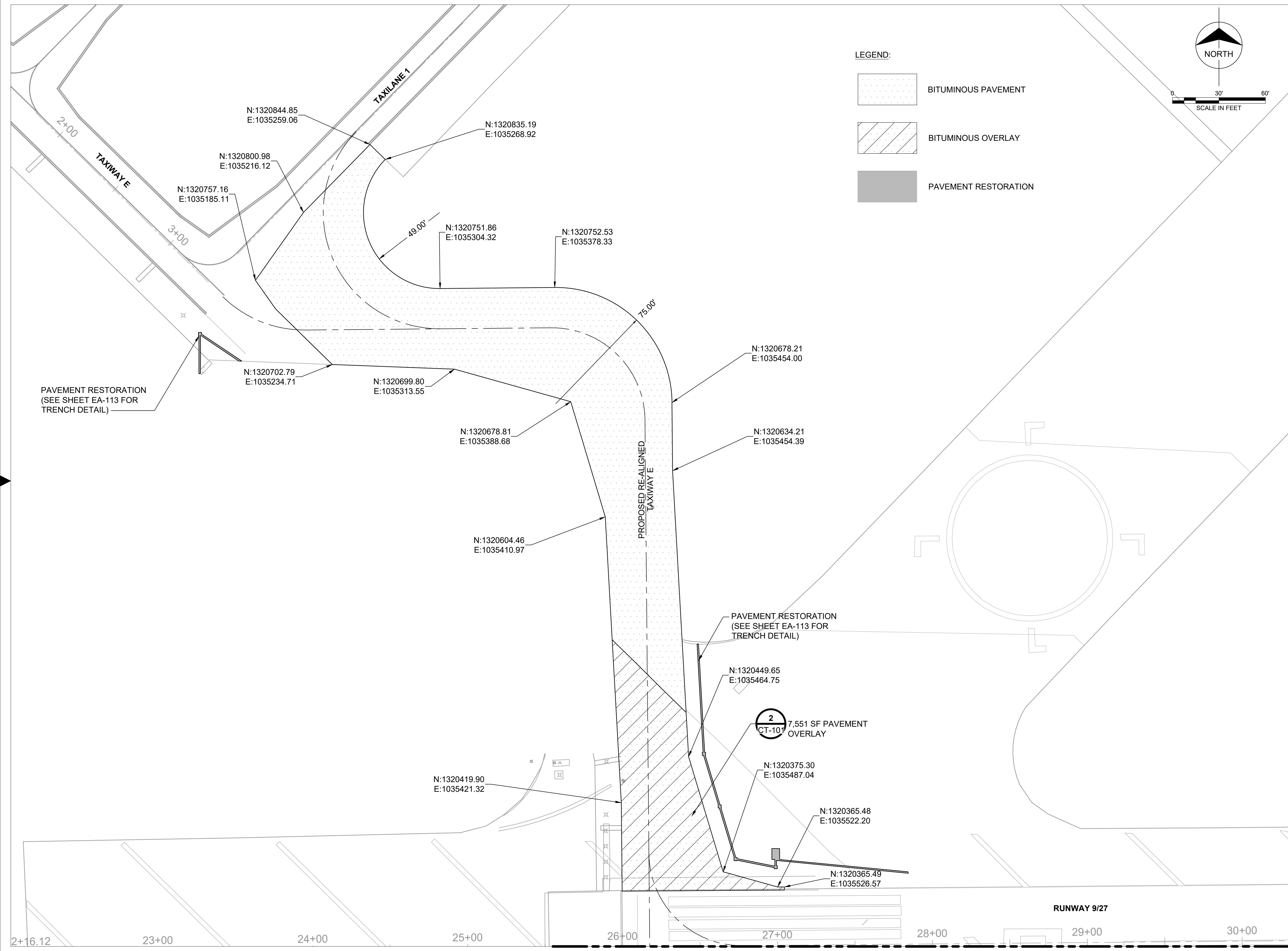
1 2 3 4 5 6 7 8 9 10 11 12 13

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



LEGEND:

- BITUMINOUS PAVEMENT
- BITUMINOUS OVERLAY
- PAVEMENT RESTORATION



Scale For Microfinishing
Millimeters
Inches

BURNS MEDONNELL

200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 1, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
SITE PLAN**

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CS-101	0
sheet 11 of 38 sheets	file 95601_CS-101_SITE PLAN

MATCH LINE: SEE SHEET CS-102

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MATCH LINE: SEE SHEET CS-101

RUNWAY 9/27

N: 1320287.11
E: 1035417.52

N: 1320288.18
E: 1035522.23

PAVEMENT RESTORATION
(SEE SHEET EA-113 FOR
TRENCH DETAIL)

N: 1320249.75
E: 1035522.23

N: 1320249.80
E: 1035479.55

PAVEMENT RESTORATION
(SEE SHEET EA-113 FOR
TRENCH DETAIL)

N: 1320204.55
E: 1035466.90

N: 1320208.90
E: 1035418.21

N: 1320127.27
E: 1035464.00

N: 1320049.66
E: 1035468.35

N: 1319975.32
E: 1035490.64

N: 1319986.42
E: 1035425.23

N: 1319954.32
E: 1035565.77

N: 1319947.34
E: 1035750.09

N: 1319949.23
E: 1035959.89

PAVEMENT RESTORATION
(SEE SHEET EA-113 FOR
TRENCH DETAIL)

N: 1319910.11
E: 1035502.92

N: 1319912.45
E: 1035762.32

N: 1319897.06
E: 1035990.15

N: 1319756.42
E: 1036157.14

77.00'

PROPOSED RE-ALIGNED
TAXIWAY E

14+00

13+00

12+00

N: 1319773.83
E: 1036136.46

N: 1319754.99
E: 1036155.74

RECONSTRUCT AND REALIGN TAXIWAY E
SITE PLAN

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 1, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E
SITE PLAN

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016

drawing	rev.
CS-102	0

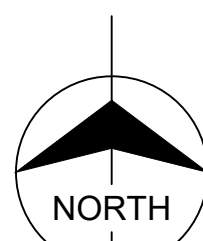
sheet 12	of 38	sheets
file 95601_CS-102_SITE PLAN		

LEGEND:

BITUMINOUS PAVEMENT

BITUMINOUS OVERLAY

PAVEMENT RESTORATION



0 30' 60'
SCALE IN FEET

Millimeters

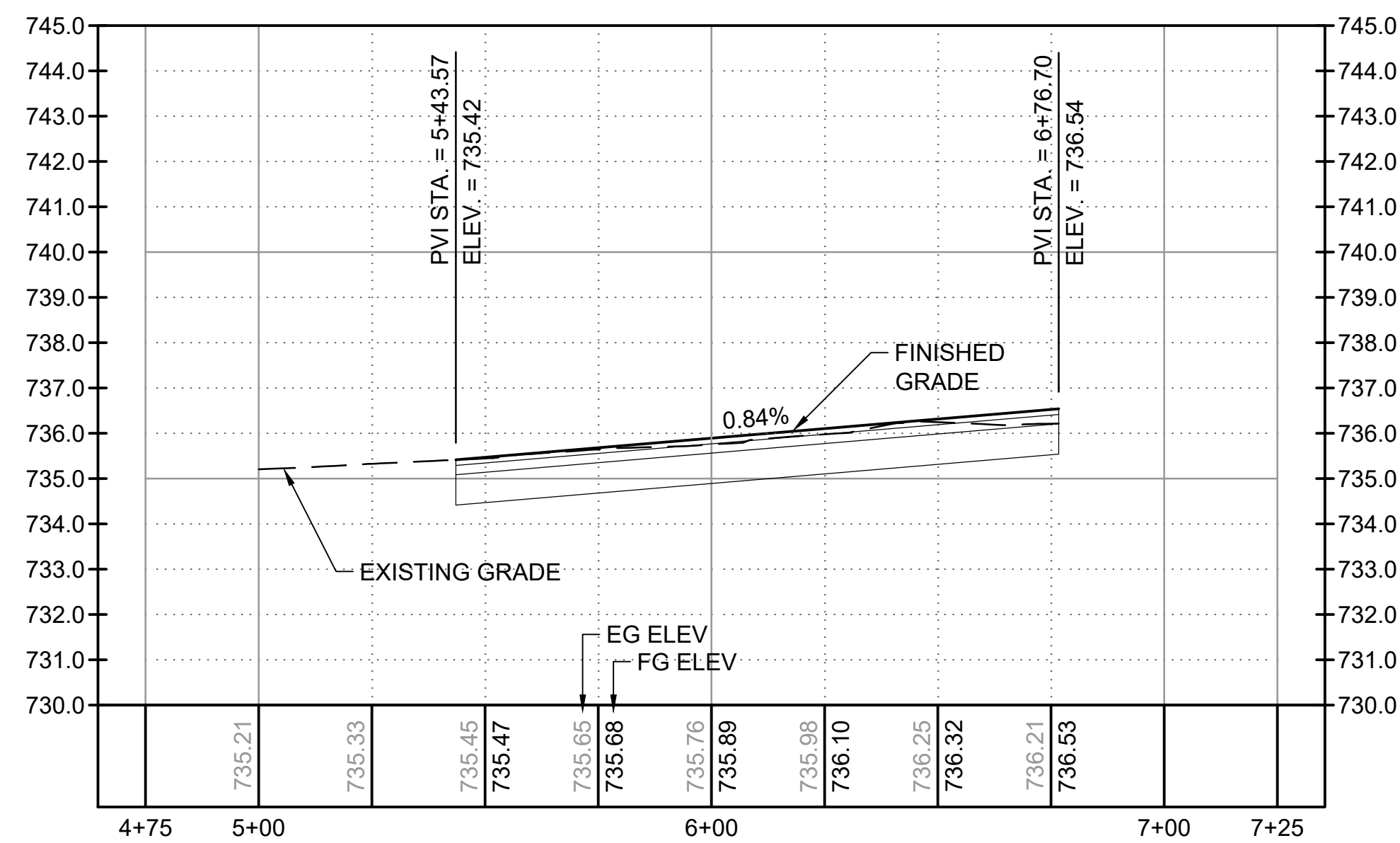
Scale For Microfilming

Inches

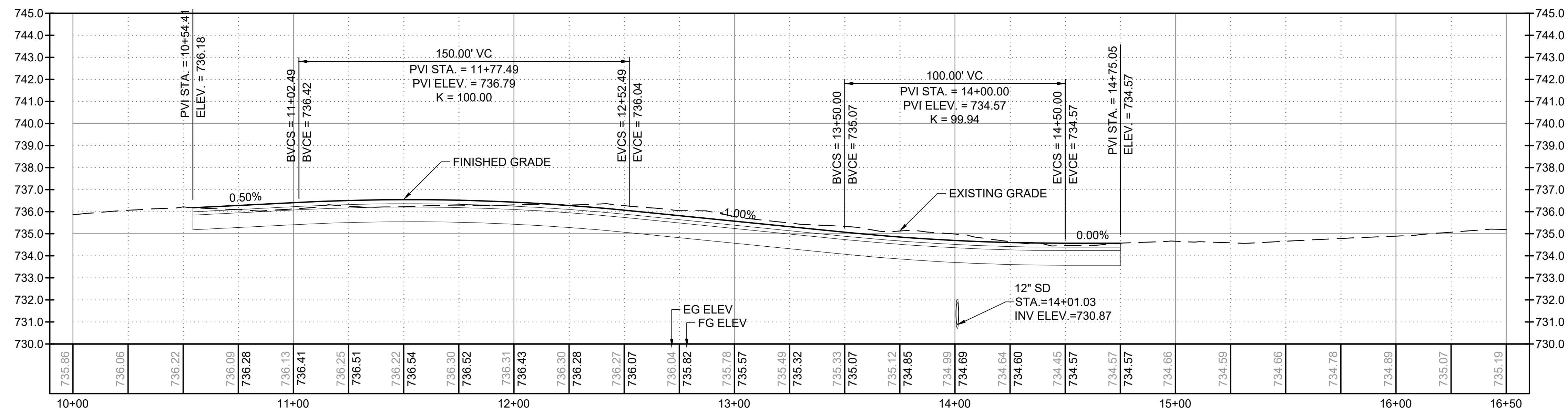
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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

Profile View of TL-1 CONNECTOR



Profile View of TW E



Scale For Microfinishing
Millimeters

Inches

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date	MARCH 6, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

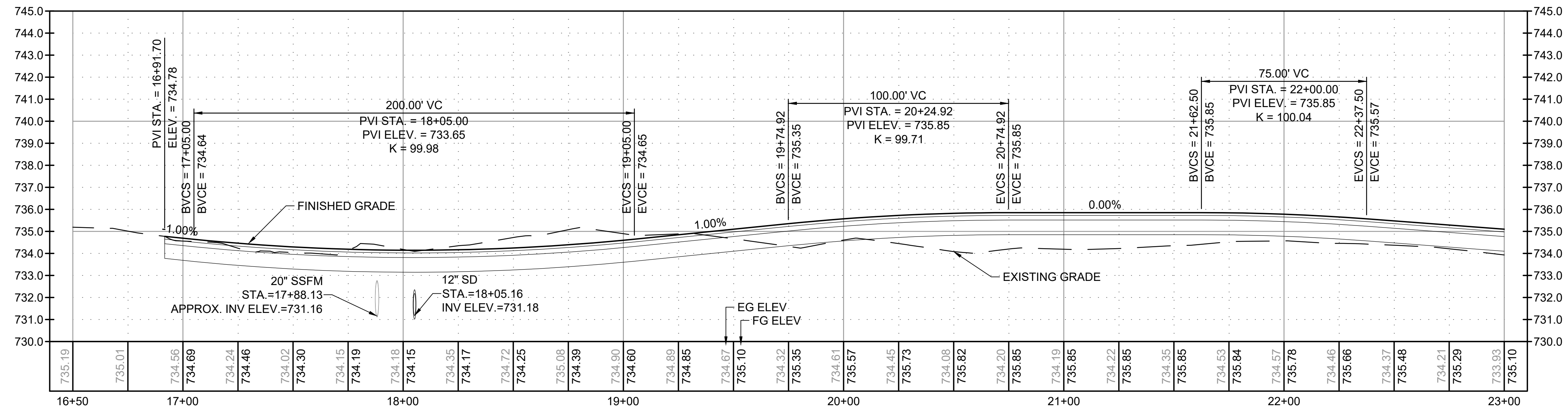


RECONSTRUCT AND REALIGN TAXIWAY E TAXIWAY E PROFILE

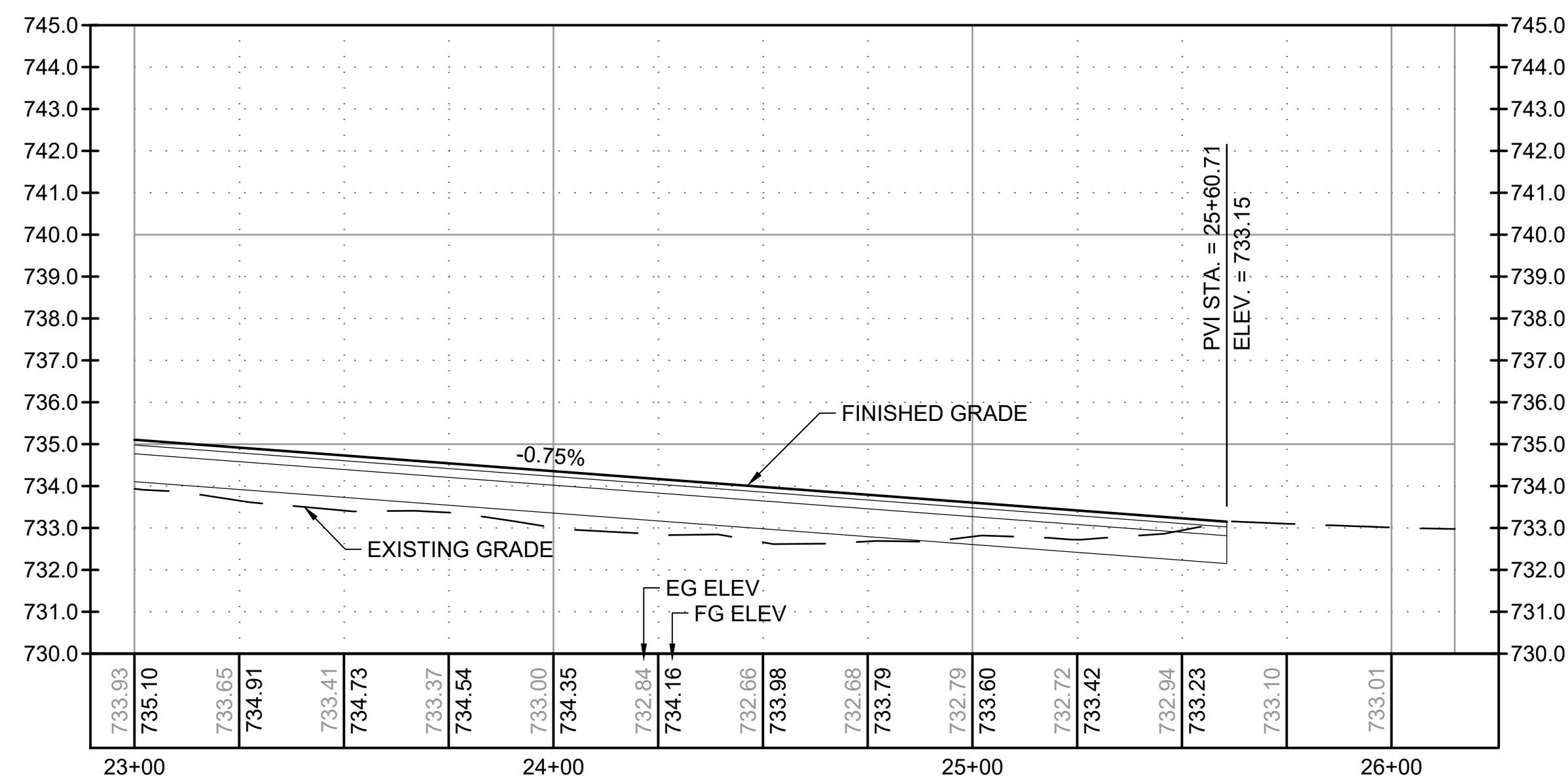
IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CS-110 - 0	
sheet 13	of 38 sheets
file 95601_CS-110_TAXIWAY E PROFILE	

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

Profile View of TW E



Profile View of TW E



Scale For Microfitting
Millimeters
Inches

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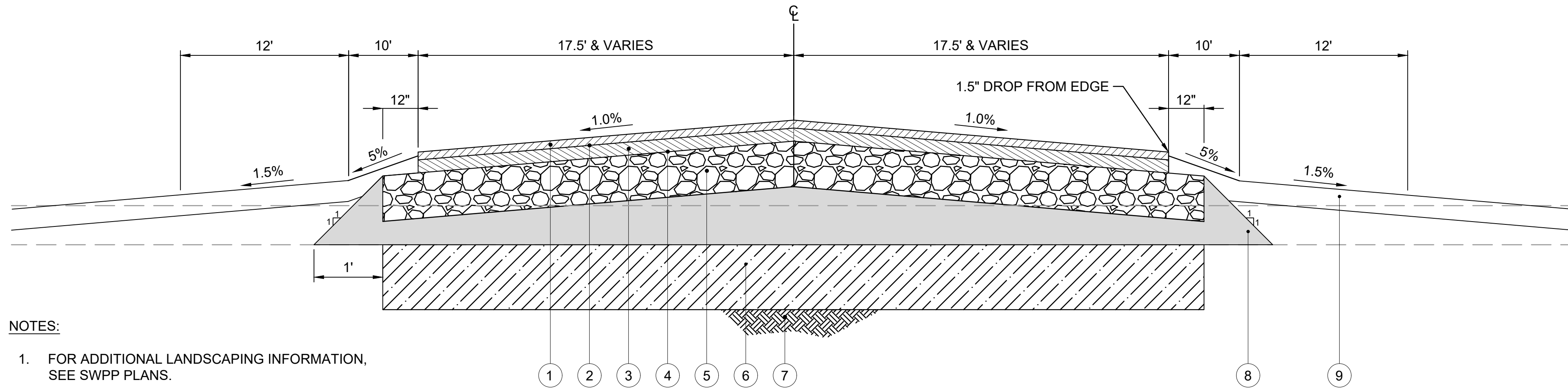
date	MARCH 06, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E
 TAXIWAY E PROFILE

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CS-111	0
sheet 14 of 38 sheets	file 95601_CS-111_TAXIWAY E PROFILE

CENTERLINE TAXIWAY E

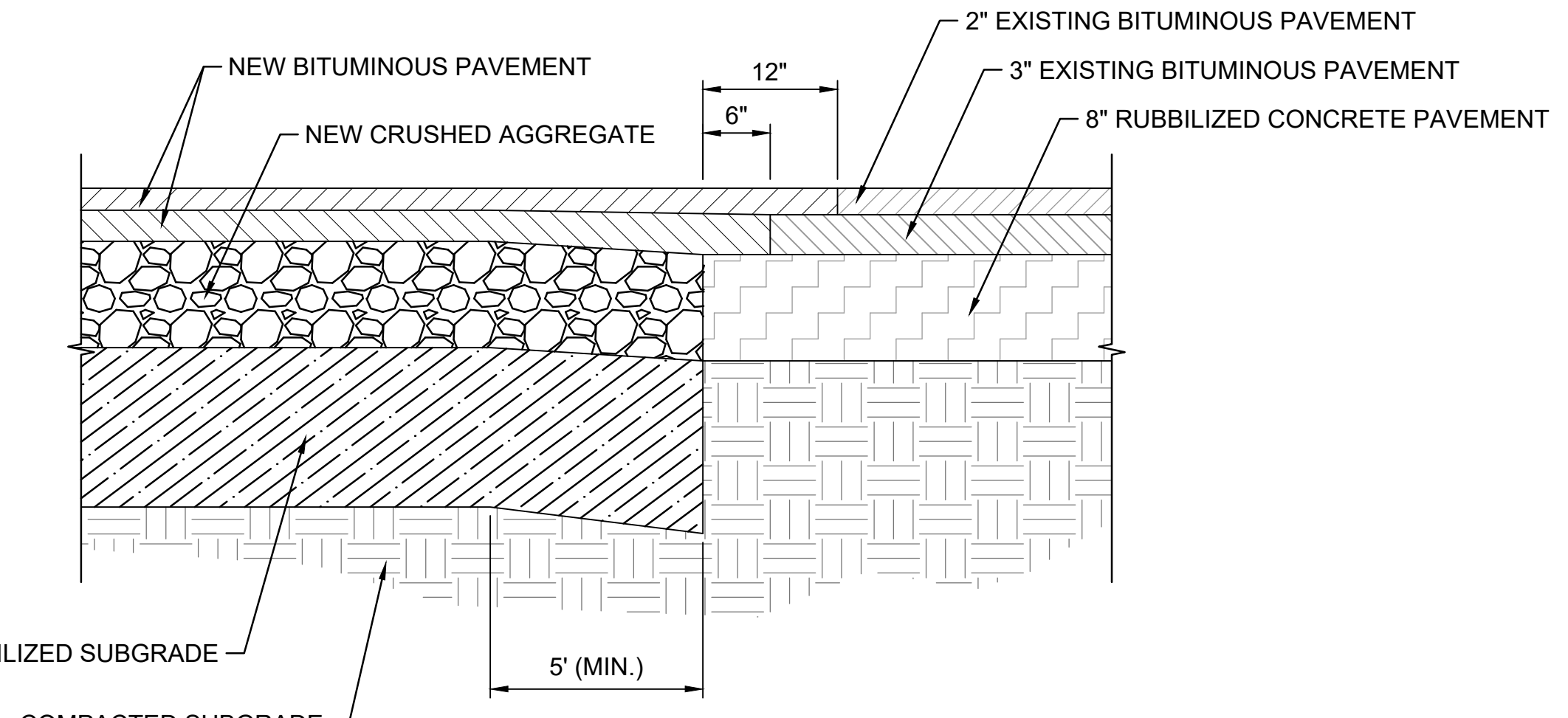


LEGEND

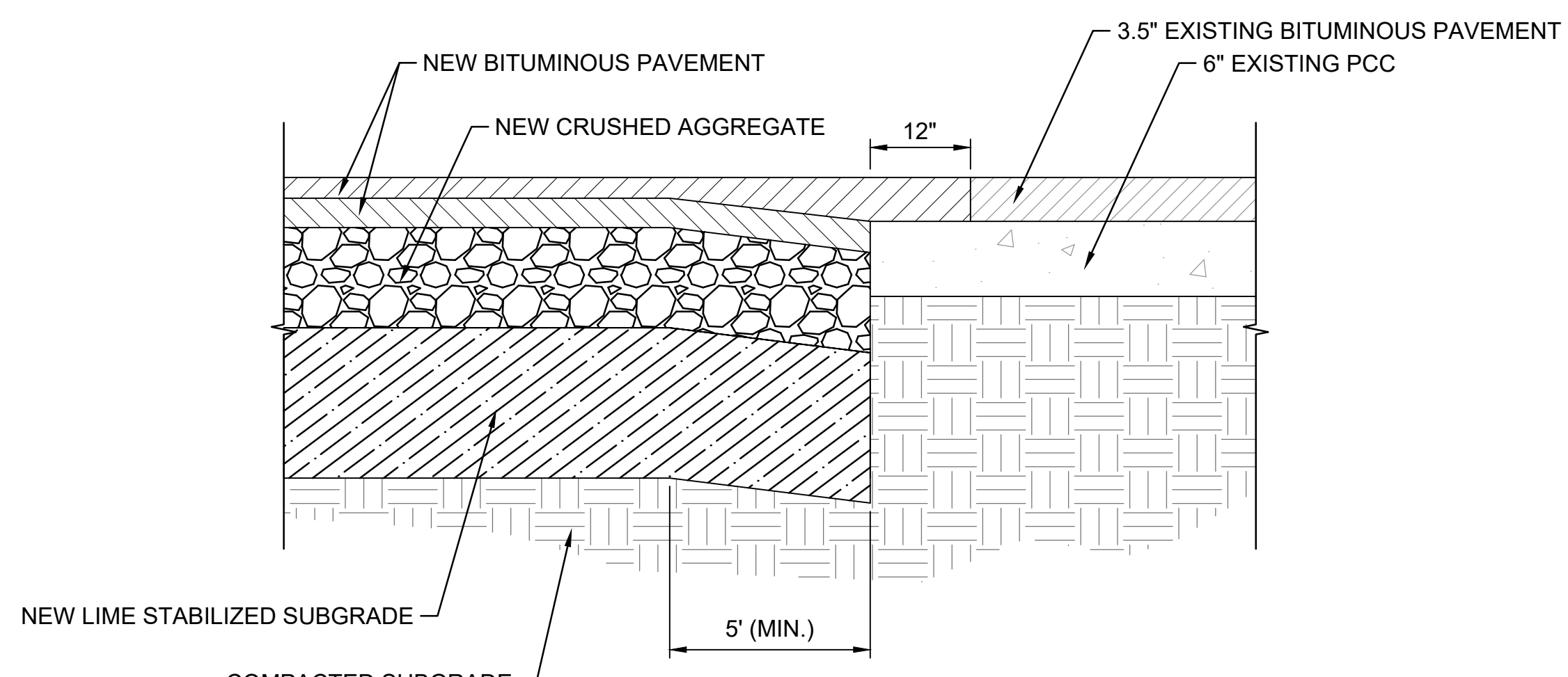
- ① 1.5" BITUMINOUS SURFACE COURSE (AR401613)
- ② TACK COAT (AR603510)
- ③ 2.5" BITUMINOUS BASE COURSE (AR403613)
- ④ PRIME COAT (AR602510)
- ⑤ 8" CRUSHED AGGREGATE BASE COURSE (AR209608)
- ⑥ 12" LIME STABILIZED SUBGRADE (AR155530)
- ⑦ COMPACTED SUBGRADE
- ⑧ FILL WITH SUITABLE MATERIAL
- ⑨ 4" TOPSOIL

- NOTES:
1. FOR ADDITIONAL LANDSCAPING INFORMATION, SEE SWPP PLANS.
 2. ITEM AR209608 CRUSHED AGGREGATE BASE COURSE, EXTEND 1' OUTSIDE ALL PAVEMENT EDGES.

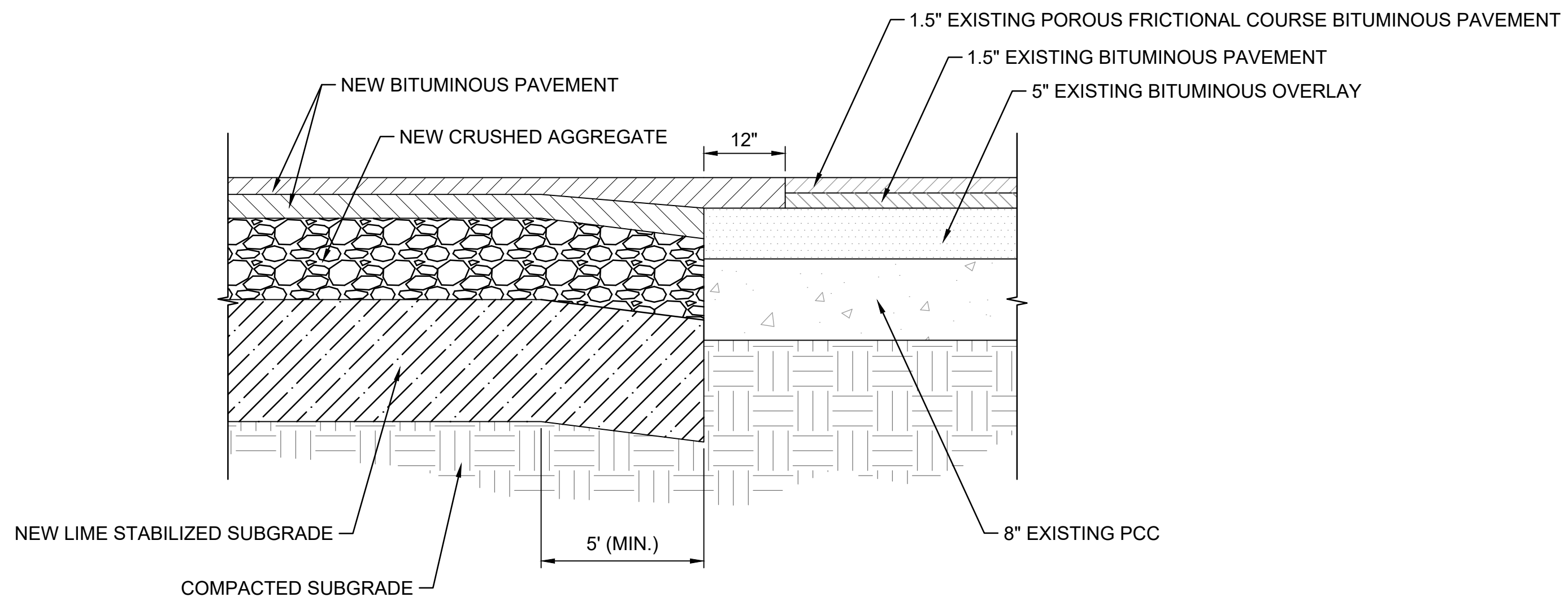
PROPOSED TYPICAL SECTION - TAXIWAY E
NOT TO SCALE



JUNCTURE BETWEEN EXISTING TAXIWAY F PAVEMENT AND PROPOSED PAVEMENT SECTION
SCALE: NONE



JUNCTURE BETWEEN EXISTING RAMP PAVEMENT AND PROPOSED PAVEMENT SECTION
SCALE: NONE



JUNCTURE BETWEEN EXISTING RUNWAY 9/27 PAVEMENT AND PROPOSED PAVEMENT SECTION
SCALE: NONE

Scale For Microfinishing
Millimeters
Inches

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



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CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 5, 2018	detailed	K. GOODWIN
designed	J. YAHYA	checked	B. QUINLAN

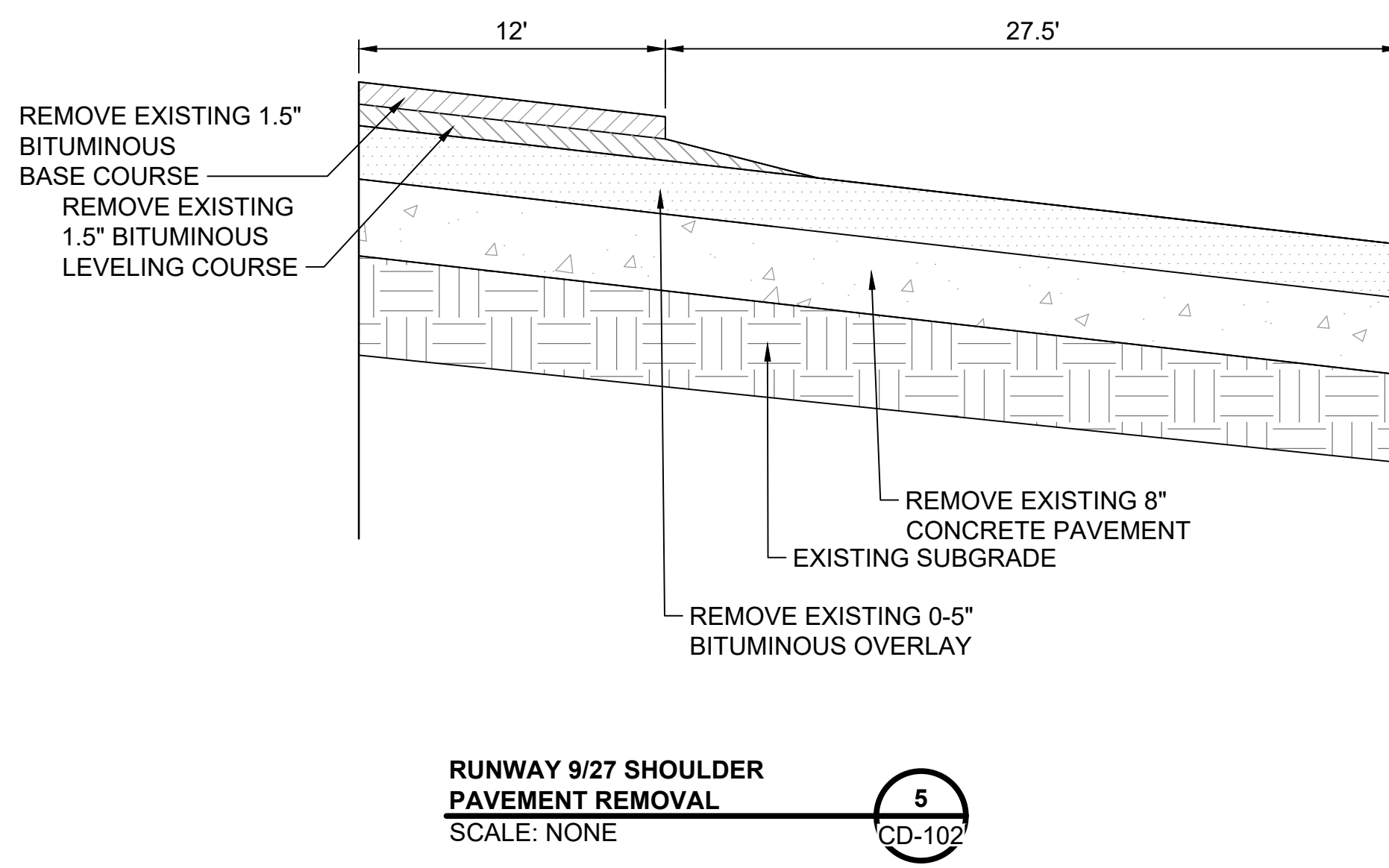
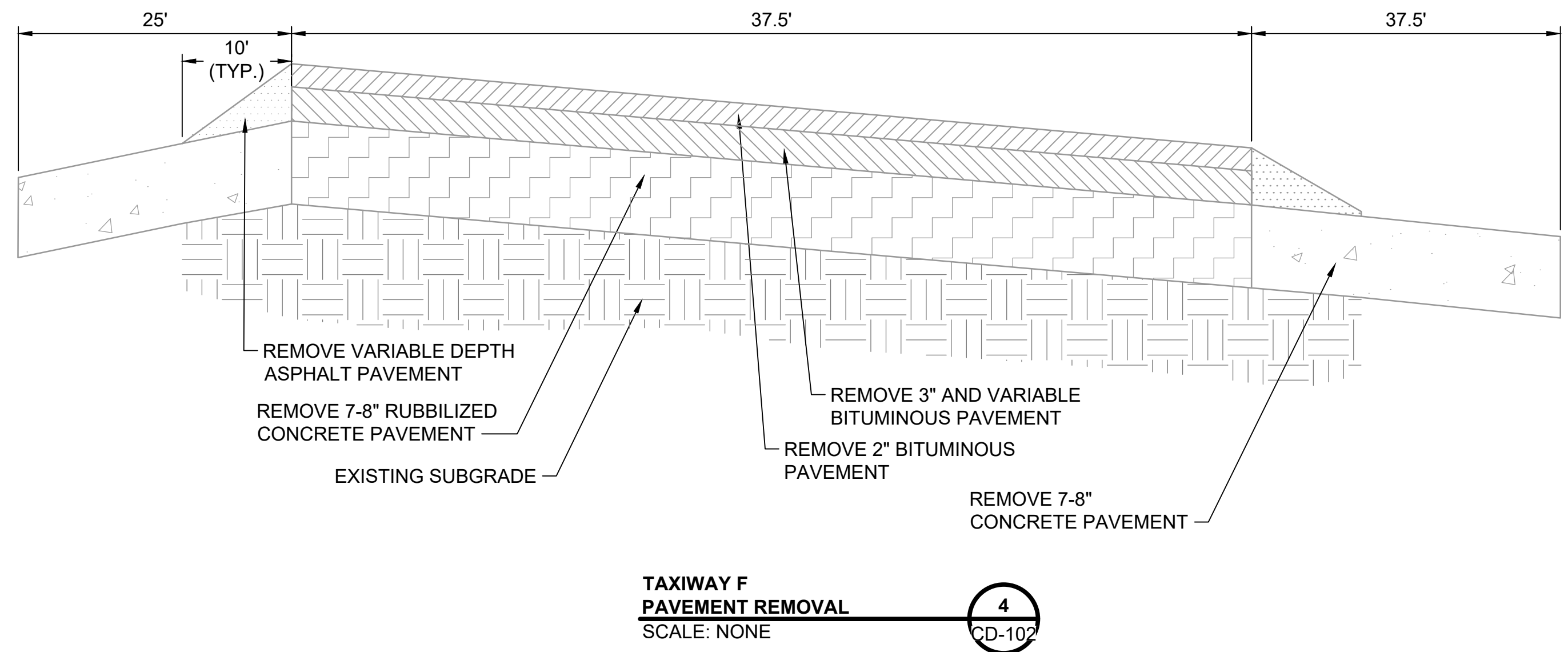
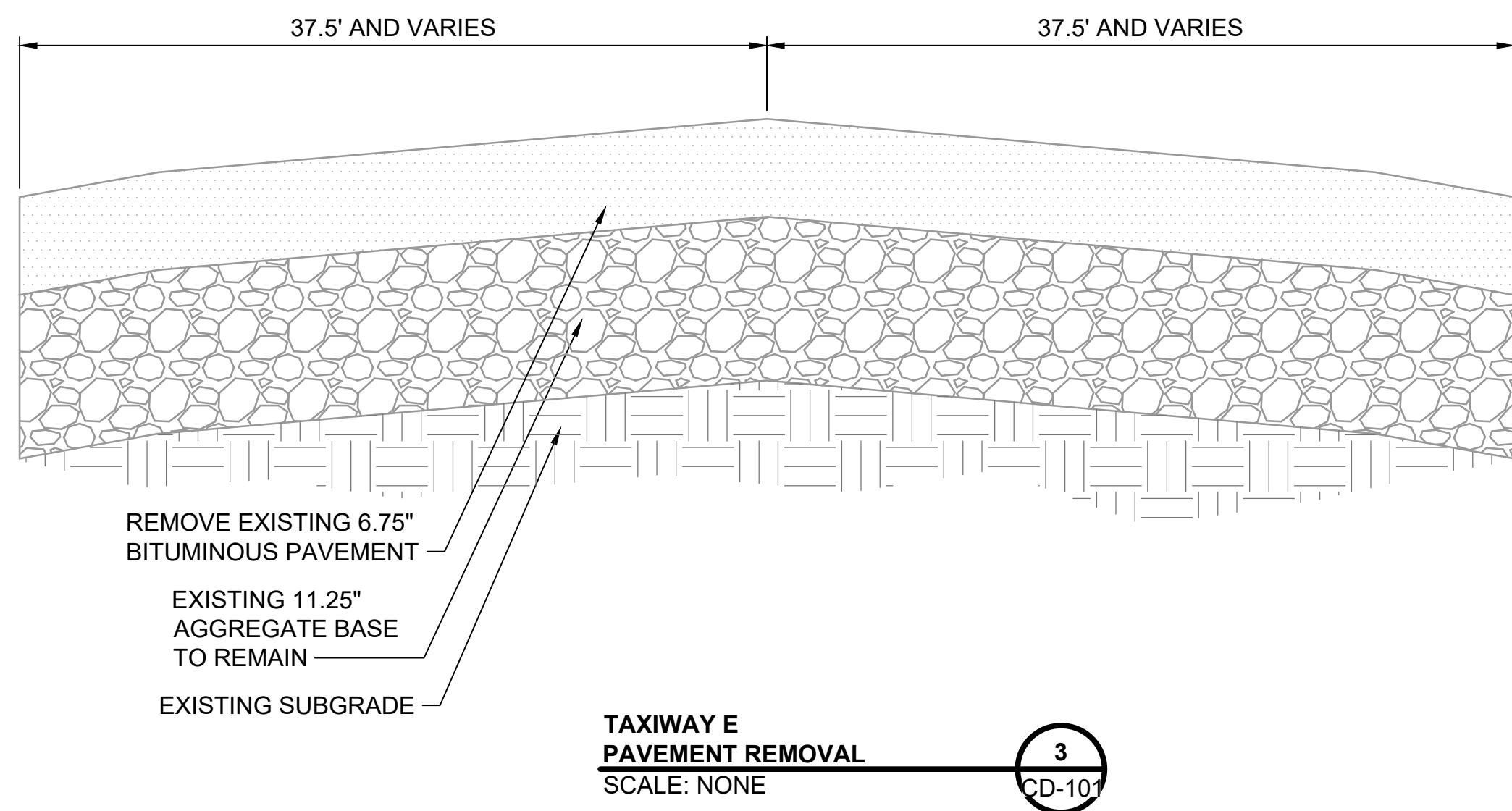
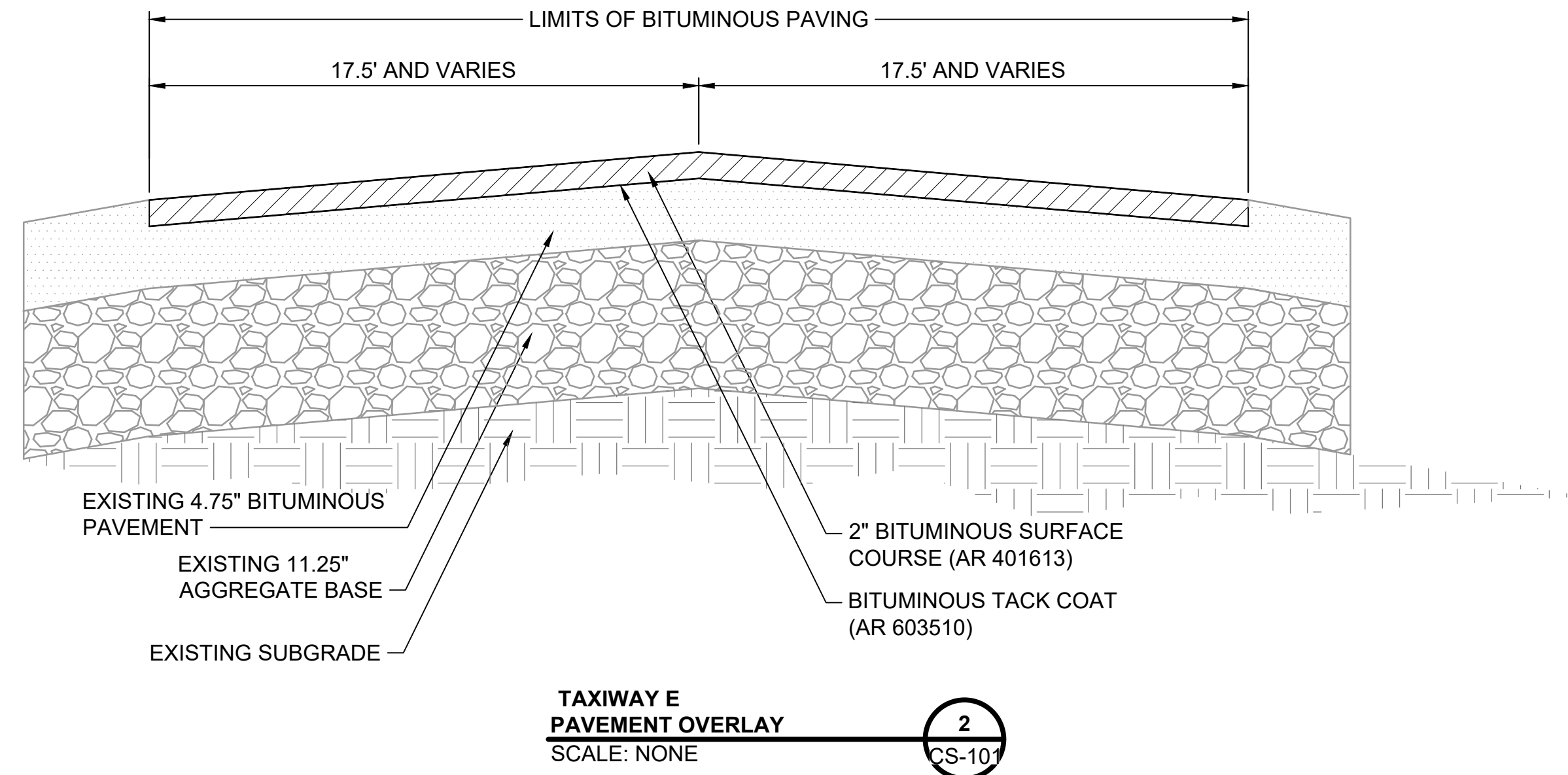
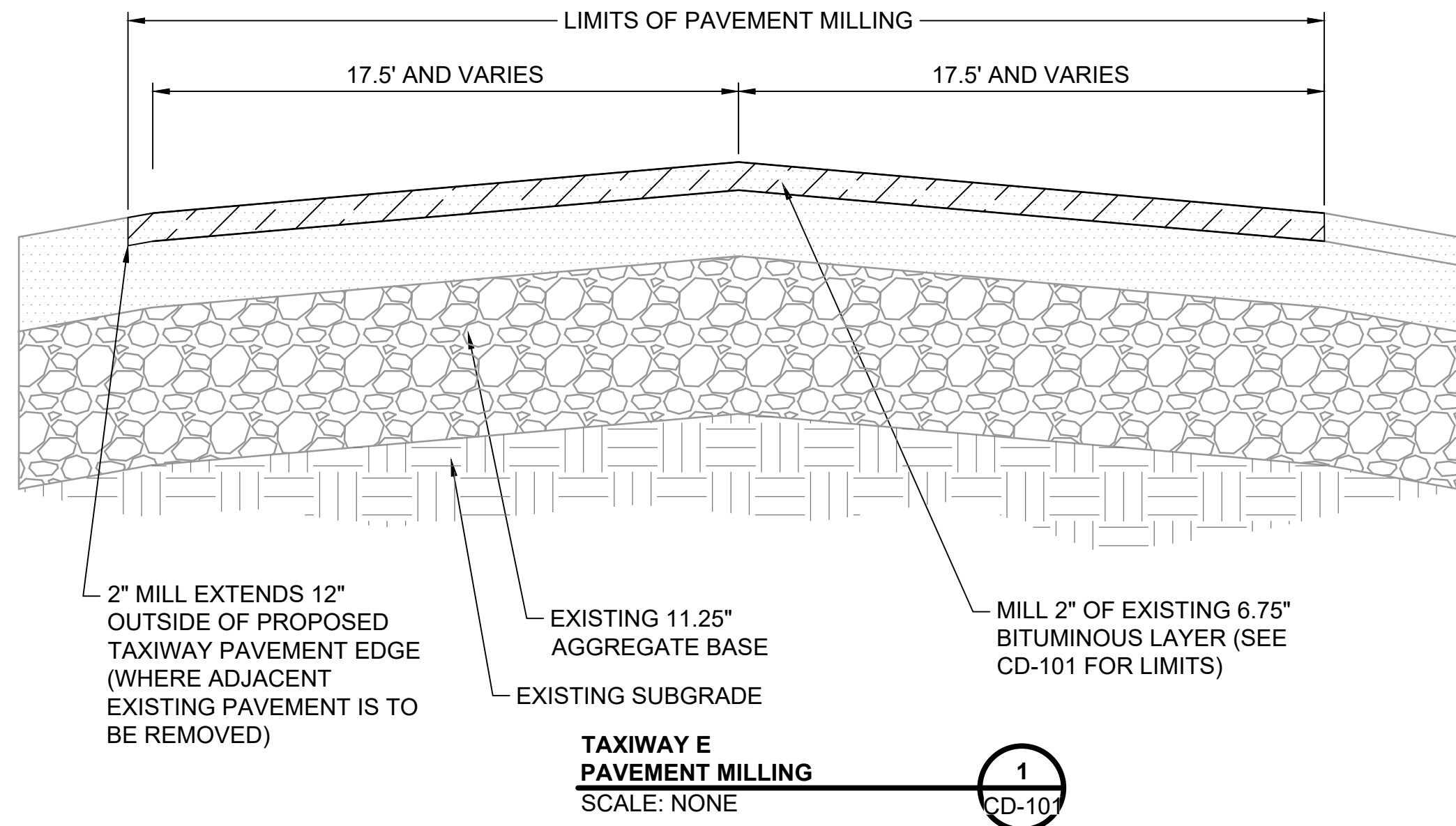


RECONSTRUCT AND REALIGN TAXIWAY E
TYPICAL SECTIONS AND DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CT-100	0
sheet 15 of 38 sheets	

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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



Scale For Microfinishing
Millimeters
Inches

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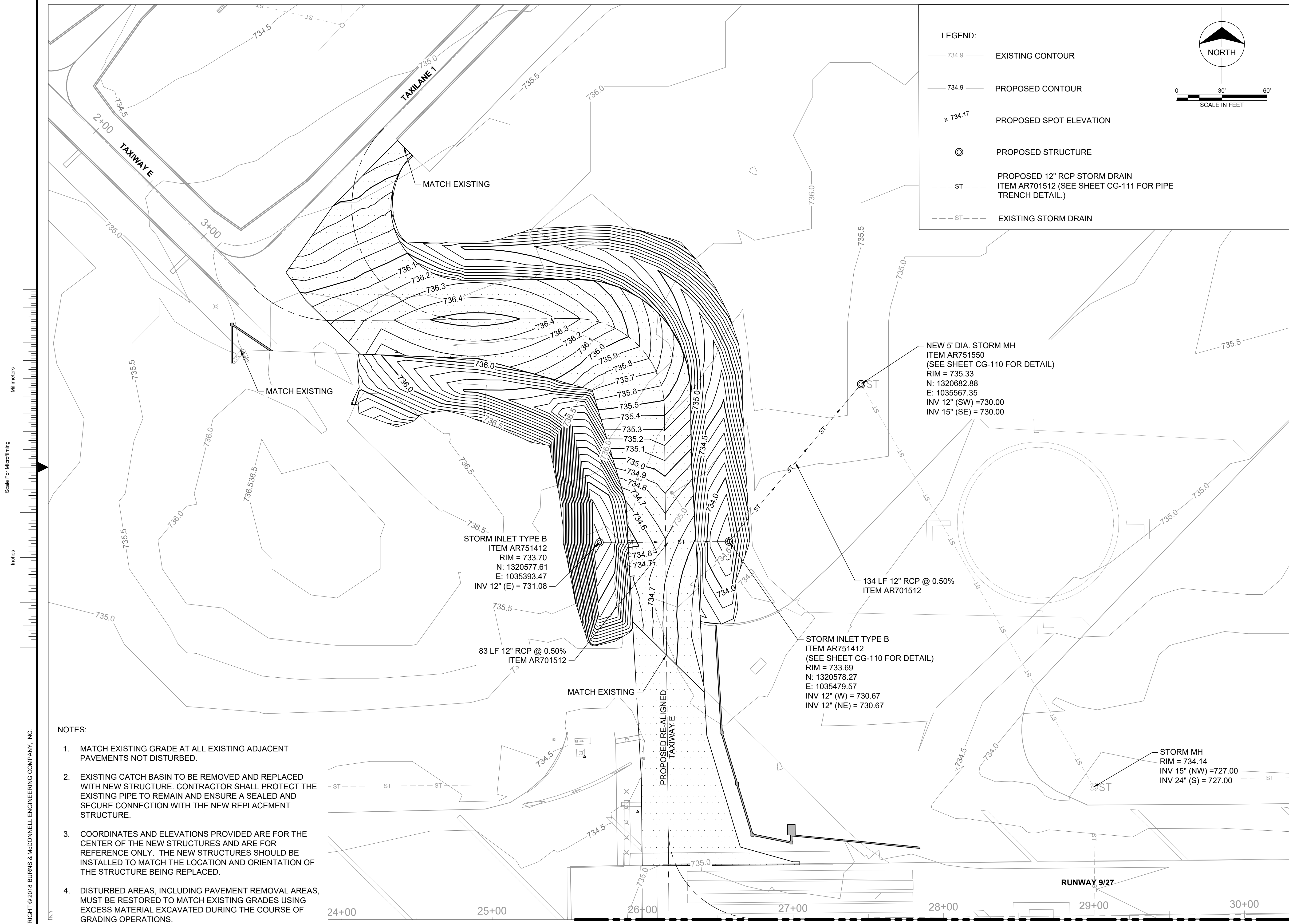
200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 22, 2018	detailed	K. GOODWIN
designed	K. GOODWIN	checked	B. QUINLAN



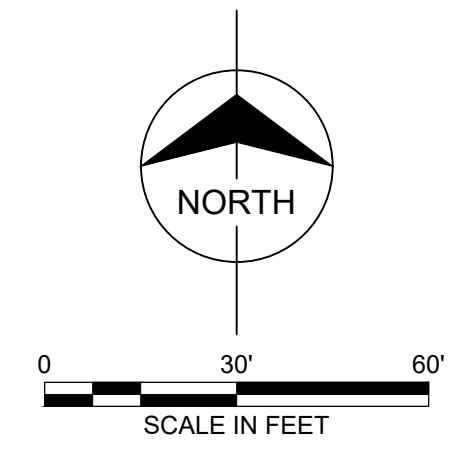
RECONSTRUCT AND REALIGN TAXIWAY E
TYPICAL SECTIONS AND DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CT-101	0
sheet 16 of 38 sheets	



LEGEND:

- 734.9 — EXISTING CONTOUR
- 734.9 — PROPOSED CONTOUR
- x 734.17 PROPOSED SPOT ELEVATION
- ⊙ PROPOSED STRUCTURE
- - - ST - - - PROPOSED 12" RCP STORM DRAIN
ITEM AR701512 (SEE SHEET CG-111 FOR PIPE TRENCH DETAIL.)
- - - ST - - - EXISTING STORM DRAIN



Millimeters
 Scale For Microfining
 Inches

- NOTES:**
1. MATCH EXISTING GRADE AT ALL EXISTING ADJACENT PAVEMENTS NOT DISTURBED.
 2. EXISTING CATCH BASIN TO BE REMOVED AND REPLACED WITH NEW STRUCTURE. CONTRACTOR SHALL PROTECT THE EXISTING PIPE TO REMAIN AND ENSURE A SEALED AND SECURE CONNECTION WITH THE NEW REPLACEMENT STRUCTURE.
 3. COORDINATES AND ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE NEW STRUCTURES AND ARE FOR REFERENCE ONLY. THE NEW STRUCTURES SHOULD BE INSTALLED TO MATCH THE LOCATION AND ORIENTATION OF THE STRUCTURE BEING REPLACED.
 4. DISTURBED AREAS, INCLUDING PAVEMENT REMOVAL AREAS, MUST BE RESTORED TO MATCH EXISTING GRADES USING EXCESS MATERIAL EXCAVATED DURING THE COURSE OF GRADING OPERATIONS.

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

BURNS MEDONNELL

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CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 5, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
GRADING PLAN**

IL Proj. No. TIP-4579	contract	RA016
BMCD Proj. No. 95601		
drawing	CG-101	rev. 0
sheet 17	of 38	sheets
file 95601_CG-101_GRADING PLAN		

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MATCH LINE: SEE SHEET CG-102

MATCH LINE: SEE SHEET CG-101

RUNWAY 9/27

LEGEND:

- 734.9 — EXISTING CONTOUR
- 734.9 — PROPOSED CONTOUR
- x 734.17 PROPOSED SPOT ELEVATION
- ◁ PROPOSED FLARED END SECTION ITEM AR752412 (SEE SHEET CG-110 FOR DETAIL).
- ◎ PROPOSED STRUCTURE
- ST --- PROPOSED 12" RCP STORM DRAIN ITEM AR701512 (SEE SHEET CG-111 FOR PIPE TRENCH DETAIL.)
- ST --- EXISTING STORM DRAIN

NEW 12" FLARED END SECTION
ITEM AR752412
N: 1320173.17
E: 1035402.62
INV (E) = 733.16

STORM INLET TYPE B
ITEM AR751412
(SEE SHEET CG-110 FOR DETAIL)
RIM= 733.10
N: 1320174.69
E: 1035487.35
INV (E) = 728.17
INV (W) = 728.17

CORE EXISTING 24" SD
N: 1320176.80
E: 1035724.04
INV (W) = 725.89

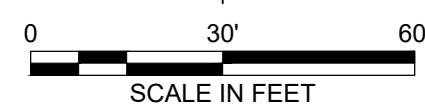
75 LF 12" RCP @ 6.65%
ITEM 701512

236 LF 12" RCP @ 0.97%
ITEM 701512

PROPOSED RE-ALIGNED
TAXIWAY E

NOTES:

1. MATCH EXISTING GRADE AT ALL EXISTING ADJACENT PAVEMENTS NOT DISTURBED.
2. COORDINATES AND ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE NEW STRUCTURES AND ARE FOR REFERENCE ONLY. THE NEW STRUCTURES SHOULD BE INSTALLED TO MATCH THE LOCATION AND ORIENTATION OF THE STRUCTURE BEING REPLACED.
3. DISTURBED AREAS, INCLUDING PAVEMENT REMOVAL AREAS, MUST BE RESTORED TO MATCH EXISTING GRADES USING EXCESS MATERIAL EXCAVATED DURING THE COURSE OF GRADING OPERATIONS.



Scale For Microfilming

Inches

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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



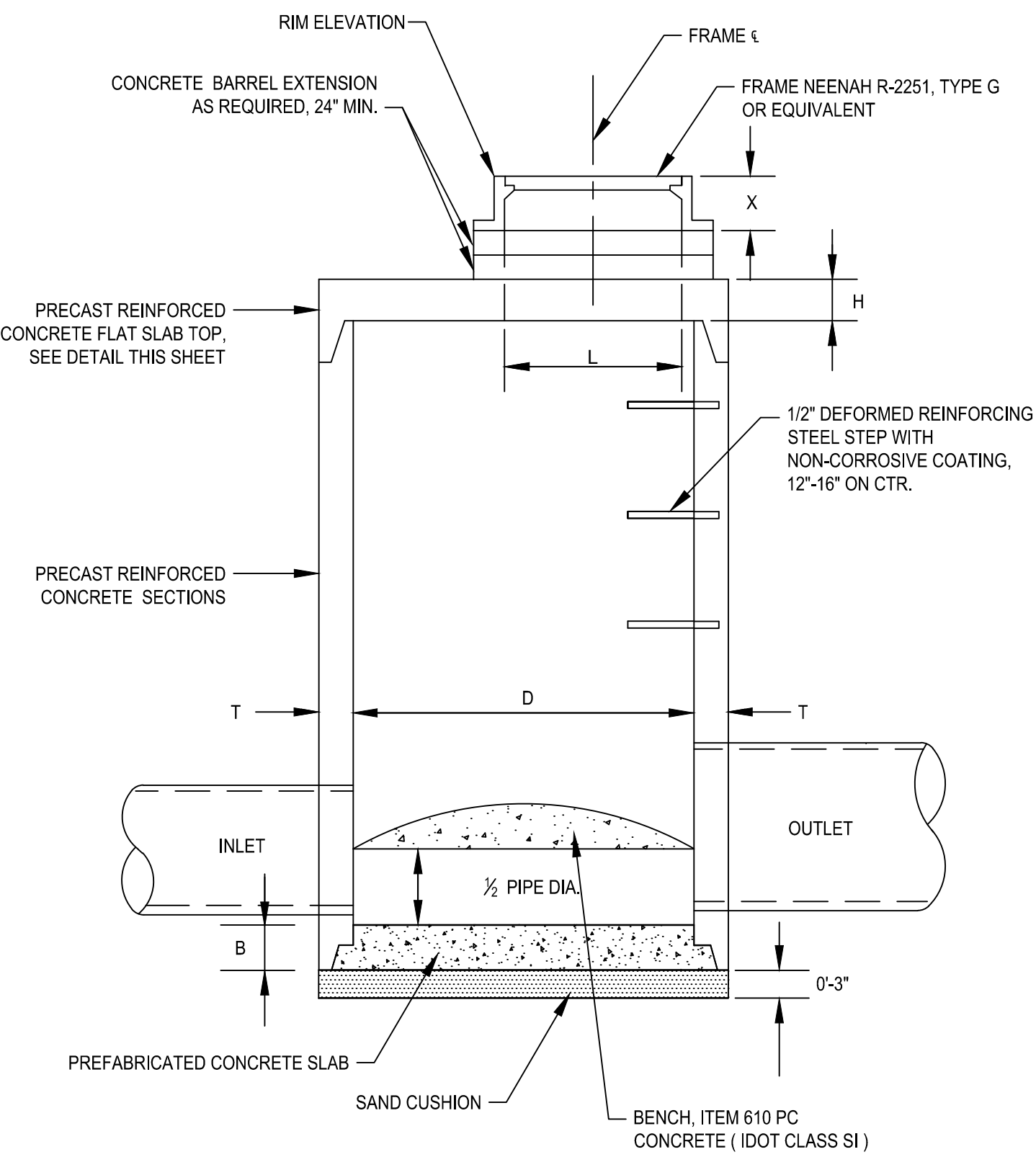
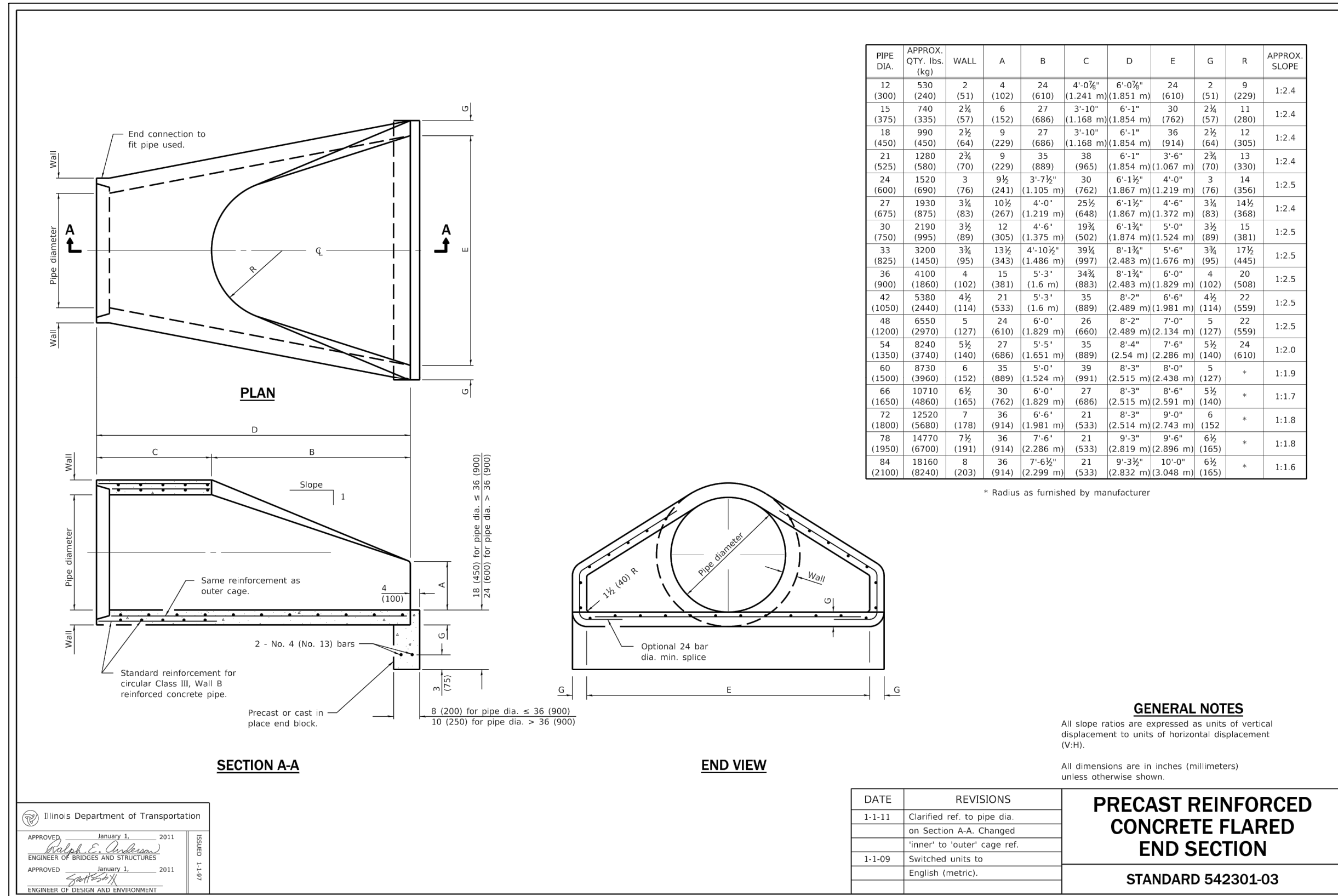
200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 5, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



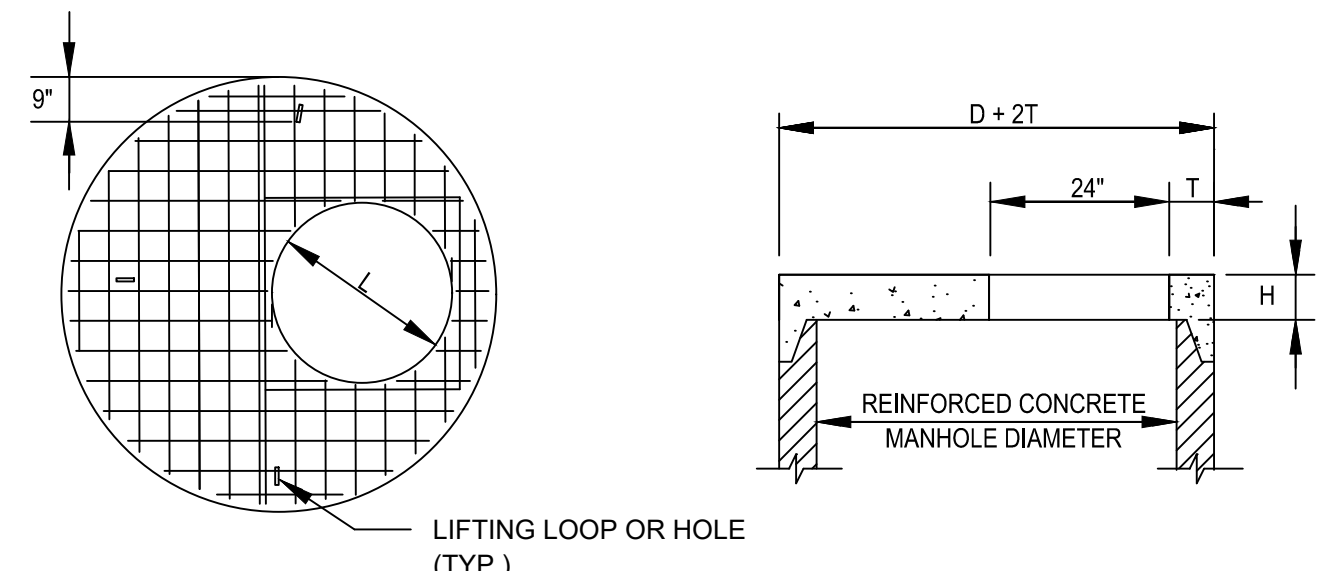
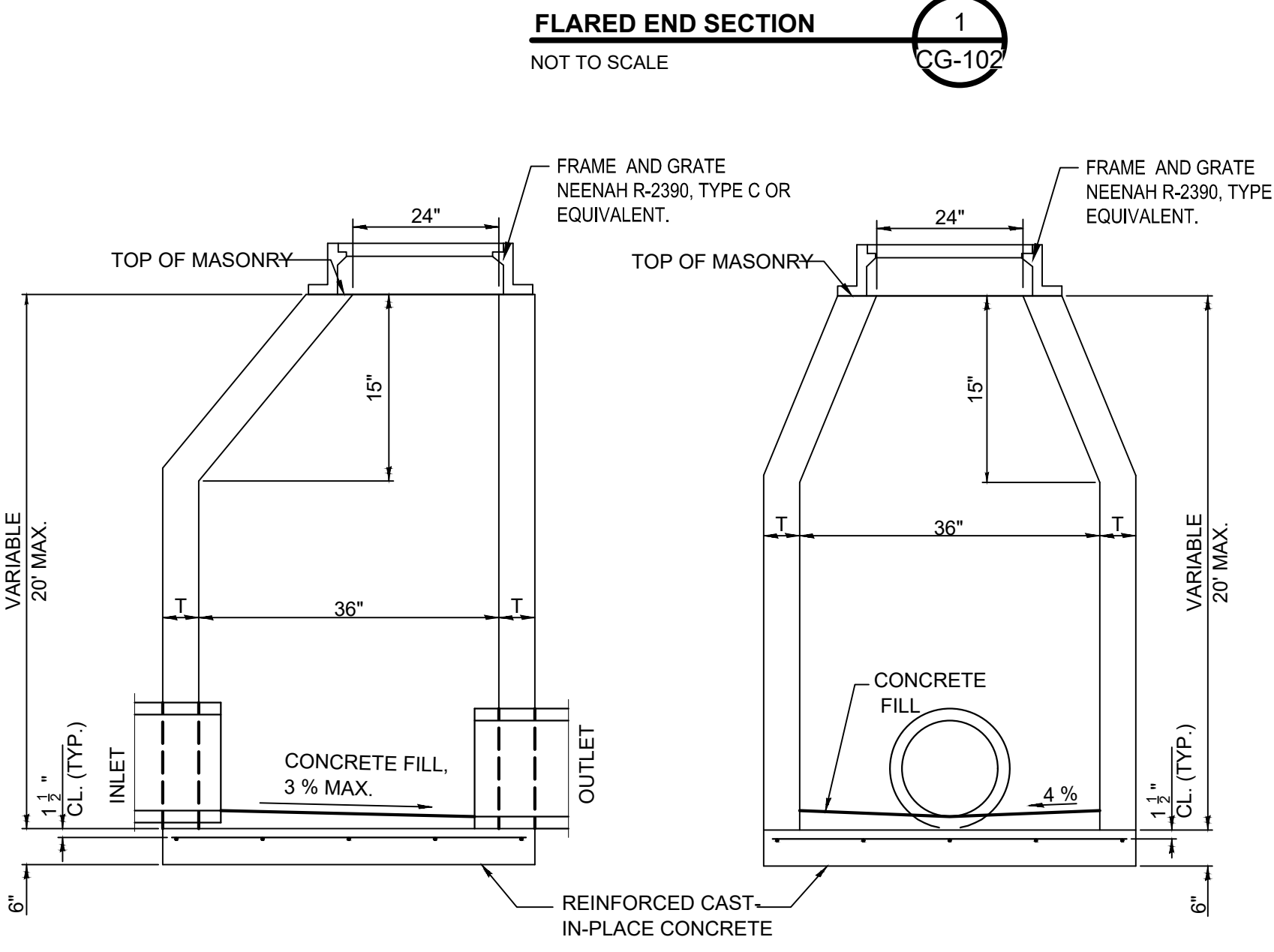
RECONSTRUCT AND REALIGN TAXIWAY E
GRADING PLAN

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CG-102	0
sheet 18	of 38 sheets
file 95601_CG-102_GRADING PLAN	



- NOTES:
- FOR "L" DIMENSION AND FRAME AND LID INFORMATION SEE STORM SEWER SCHEDULES.
 - CENTER OF FRAME TO BE USED FOR LOCATING STRUCTURE. FOR STRUCTURE LOCATIONS AND ADDITIONAL INFORMATION SEE SCHEDULE.
 - ALL STRUCTURES TO BE PRECAST REINFORCED CONCRETE SECTIONS; BENCHES MAY BE CAST IN PLACE.

INSIDE DIA. "D" (IN.)	WALL THICKNESS "T" (IN.)	TOP THICKNESS "H" (IN.)	BOTTOM THICKNESS "B" (IN.)
48	5	6	6
60	5	8	8
72	6	8	8
84	7	8	8



- NOTES:
- BOTTOM SLABS SHALL BE REINFORCED WITH A MINIMUM OF 0.20 SQ. IN./FT. IN BOTH DIRECTION WITH A MAXIMUM SPACING OF 12".
 - BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.
 - SEE STANDARD 602301-04 FOR INLET TYPE A AND 602306-03 FOR INLET TYPE B. SEE STANDARD 602601-03 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT SLAB TOP.

5' DIAMETER STORM MH
NOT TO SCALE

no.	date	by	ckd	description
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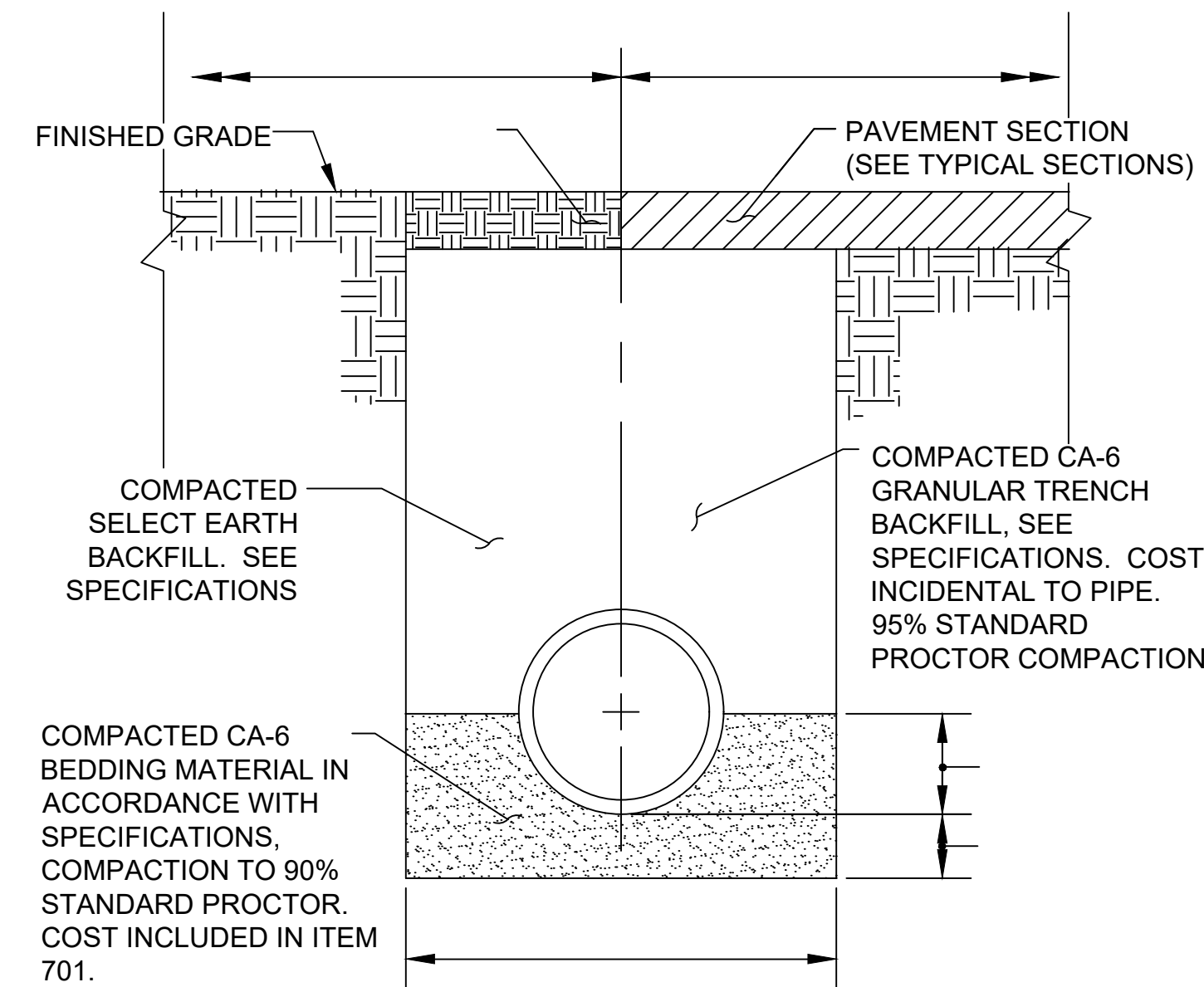
date	designed	checked
MARCH 23, 2018	A. GALLAGHER	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E DRAINAGE DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CG-110	0
sheet 19 of 38 sheets	file 95601_CG-110_DRAINAGE DETAILS

Scale For Microfinishing
Inches
Millimeters
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Z:\Clients\ANF\Rantoul\VIII\TIP\95601_TWR\Recon\Design\Civil\Sheets\95601_CG-110_DRAINAGE DETAILS.dwg 4/18/2018 3:39:58 PM YAHYA, JUNAID

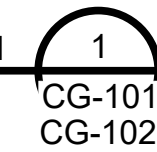


NOTES:

1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
2. WITHIN 3 FEET OF FUTURE PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
3. AT CONTRACTOR'S OPTION IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL", MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS.

STORM DRAIN PIPE TRENCH

NOT TO SCALE



Millimeters

Scale For Microfilming

Inches

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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



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CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 23, 2018	detailed	A. GALLAGHER
designed	A. GALLAGHER	checked	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E DRAINAGE DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CG-111	0
sheet 20 of 38 sheets	file 95601_CG-111_DRAINAGE DETAILS

SWPPP LEGEND:

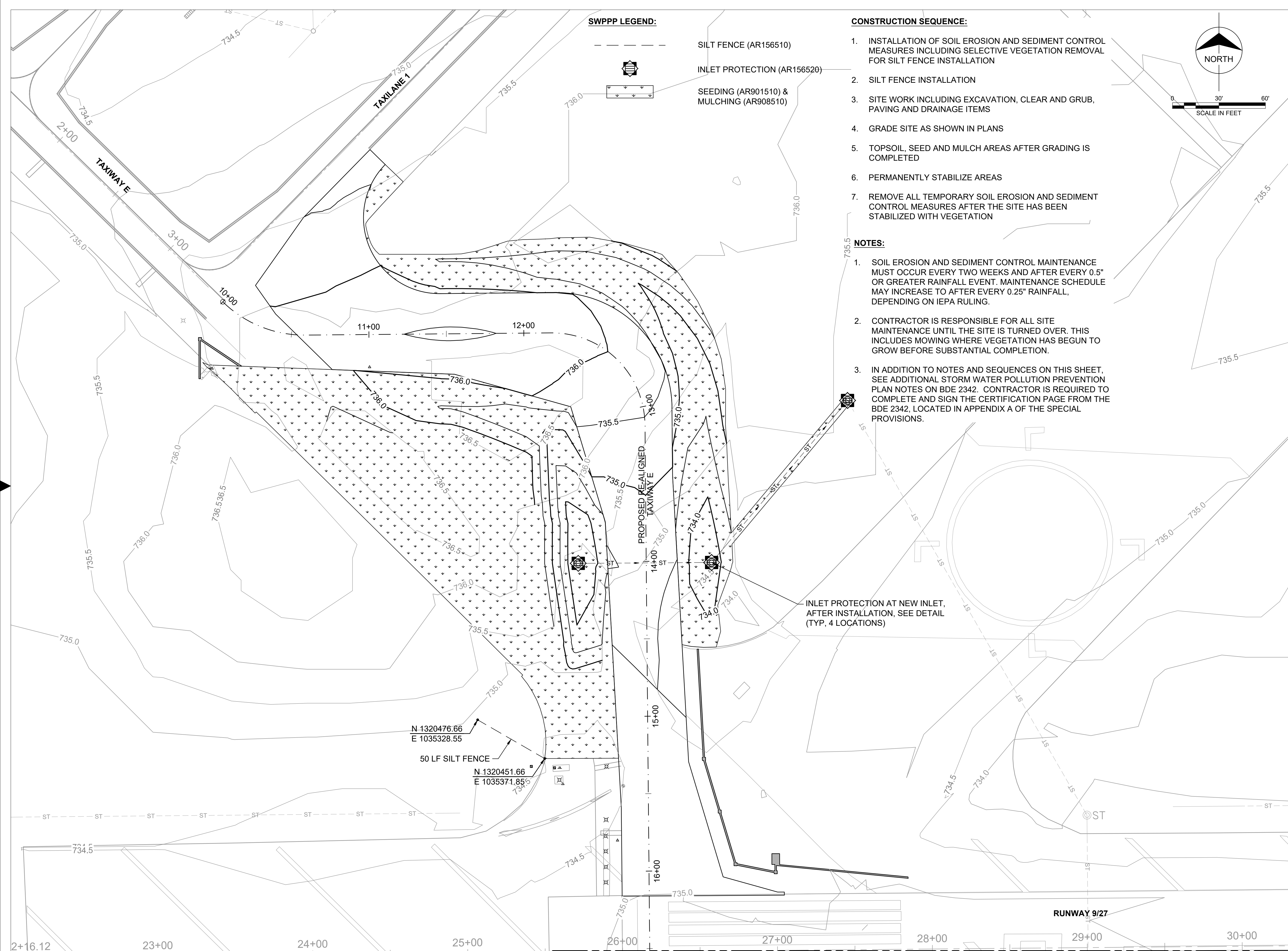
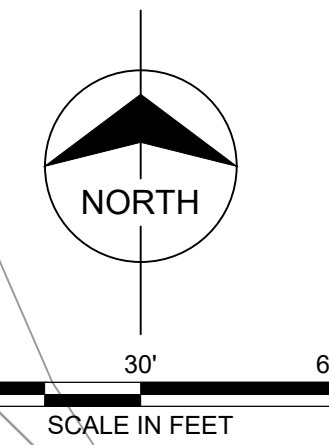
- SILT FENCE (AR156510)
- ▣ INLET PROTECTION (AR156520)
- ▣ SEEDING (AR901510) & MULCHING (AR908510)

CONSTRUCTION SEQUENCE:

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
2. SILT FENCE INSTALLATION
3. SITE WORK INCLUDING EXCAVATION, CLEAR AND GRUB, PAVING AND DRAINAGE ITEMS
4. GRADE SITE AS SHOWN IN PLANS
5. TOPSOIL, SEED AND MULCH AREAS AFTER GRADING IS COMPLETED
6. PERMANENTLY STABILIZE AREAS
7. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER THE SITE HAS BEEN STABILIZED WITH VEGETATION

NOTES:

1. SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 0.5" OR GREATER RAINFALL EVENT. MAINTENANCE SCHEDULE MAY INCREASE TO AFTER EVERY 0.25" RAINFALL, DEPENDING ON IEPA RULING.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SITE MAINTENANCE UNTIL THE SITE IS TURNED OVER. THIS INCLUDES MOWING WHERE VEGETATION HAS BEGUN TO GROW BEFORE SUBSTANTIAL COMPLETION.
3. IN ADDITION TO NOTES AND SEQUENCES ON THIS SHEET, SEE ADDITIONAL STORM WATER POLLUTION PREVENTION PLAN NOTES ON BDE 2342. CONTRACTOR IS REQUIRED TO COMPLETE AND SIGN THE CERTIFICATION PAGE FROM THE BDE 2342, LOCATED IN APPENDIX A OF THE SPECIAL PROVISIONS.



no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date MARCH 19, 2018	detailed K. GOODWIN
designed J. YAHYA	checked B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
SWPP PLAN**

IL Proj. No. TIP-4579	contract RA016
BMCD Proj. No. 95601	rev. 0
drawing CG-201	sheet 21 of 38 sheets
file 95601_CG-201_SWPP PLAN	

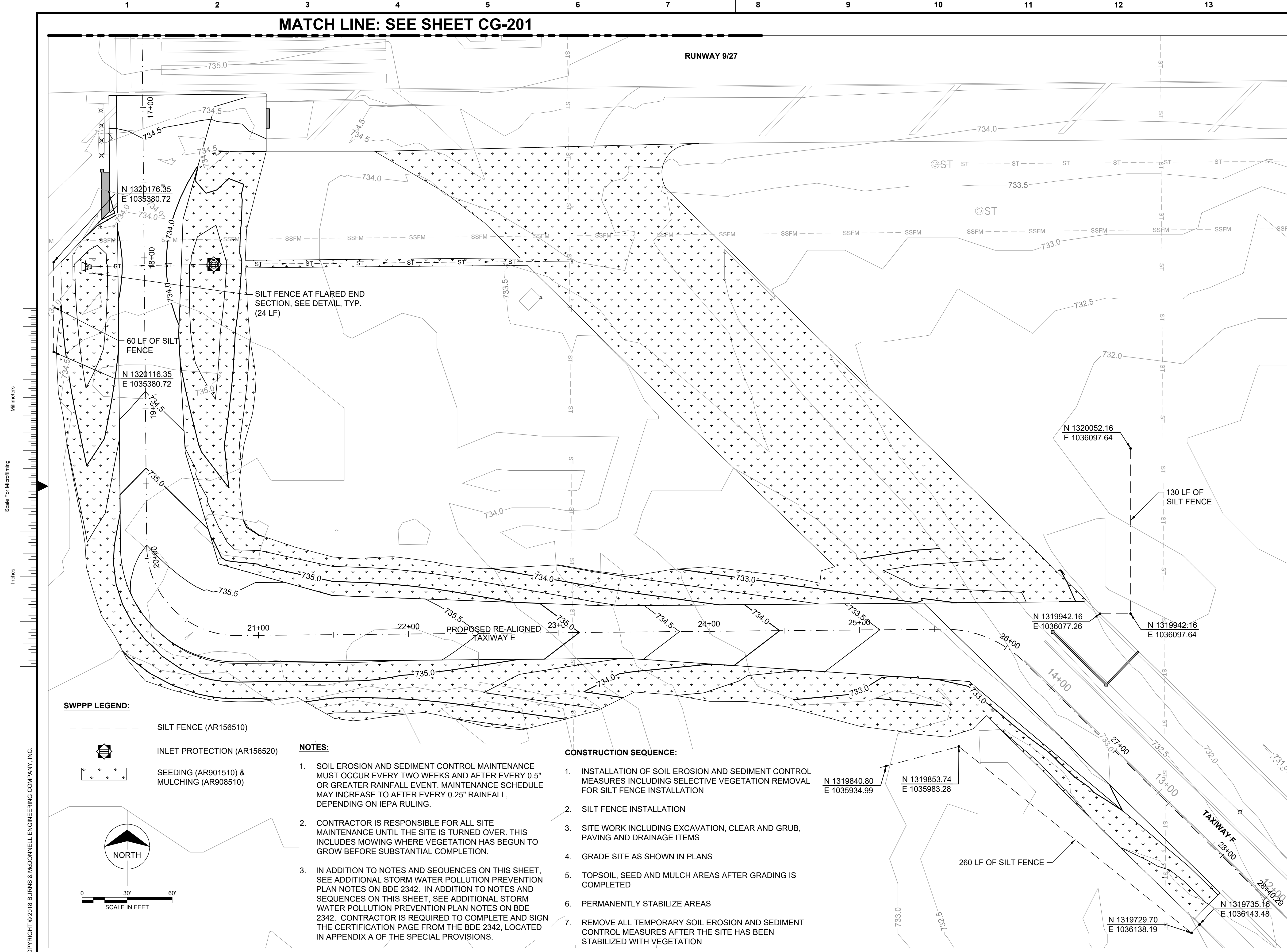
MATCH LINE: SEE SHEET CG-202

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MATCH LINE: SEE SHEET CG-201



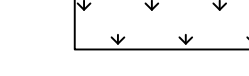
RUNWAY 9/27

no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



Scale For Microfining
Millimeters
Inches

SWPPP LEGEND:

-  SILT FENCE (AR156510)
-  INLET PROTECTION (AR156520)
-  SEEDING (AR901510) & MULCHING (AR908510)

NOTES:

1. SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 0.5" OR GREATER RAINFALL EVENT. MAINTENANCE SCHEDULE MAY INCREASE TO AFTER EVERY 0.25" RAINFALL, DEPENDING ON IEPA RULING.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SITE MAINTENANCE UNTIL THE SITE IS TURNED OVER. THIS INCLUDES MOWING WHERE VEGETATION HAS BEGUN TO GROW BEFORE SUBSTANTIAL COMPLETION.
3. IN ADDITION TO NOTES AND SEQUENCES ON THIS SHEET, SEE ADDITIONAL STORM WATER POLLUTION PREVENTION PLAN NOTES ON BDE 2342. IN ADDITION TO NOTES AND SEQUENCES ON THIS SHEET, SEE ADDITIONAL STORM WATER POLLUTION PREVENTION PLAN NOTES ON BDE 2342. CONTRACTOR IS REQUIRED TO COMPLETE AND SIGN THE CERTIFICATION PAGE FROM THE BDE 2342, LOCATED IN APPENDIX A OF THE SPECIAL PROVISIONS.

CONSTRUCTION SEQUENCE:

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
2. SILT FENCE INSTALLATION
3. SITE WORK INCLUDING EXCAVATION, CLEAR AND GRUB, PAVING AND DRAINAGE ITEMS
4. GRADE SITE AS SHOWN IN PLANS
5. TOPSOIL, SEED AND MULCH AREAS AFTER GRADING IS COMPLETED
6. PERMANENTLY STABILIZE AREAS
7. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER THE SITE HAS BEEN STABILIZED WITH VEGETATION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 19, 2018	detailed	K. GOODWIN
designed	J. YAHYA	checked	B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
SWPPP PLAN**

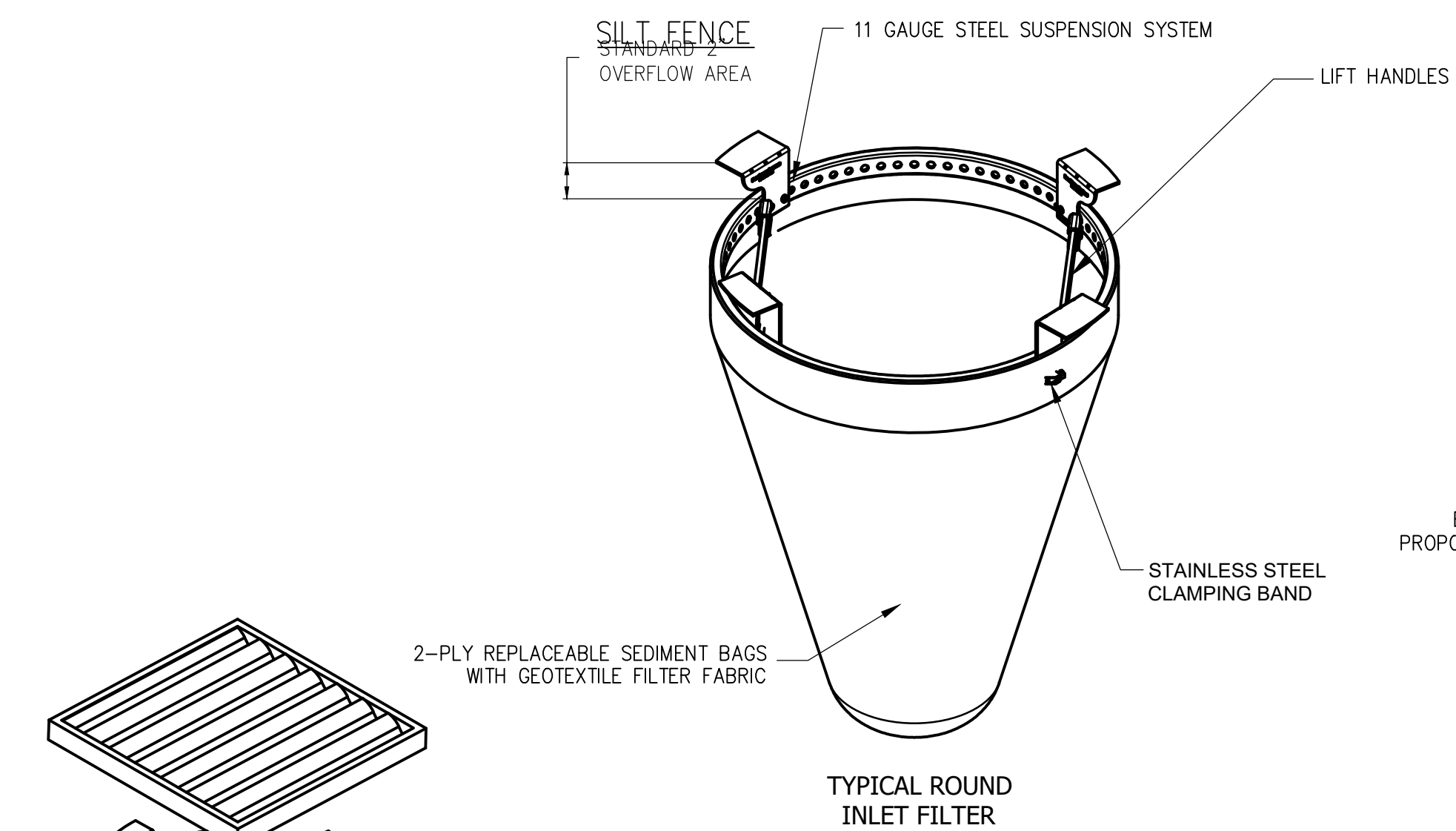
IL Proj. No. TIP-4579	contract	RA016
BMCD Proj. No. 95601		
drawing	rev.	
CG-202 - 0		
sheet 22	of 38	sheets
file 95601_CG-202_SWPPP PLAN		

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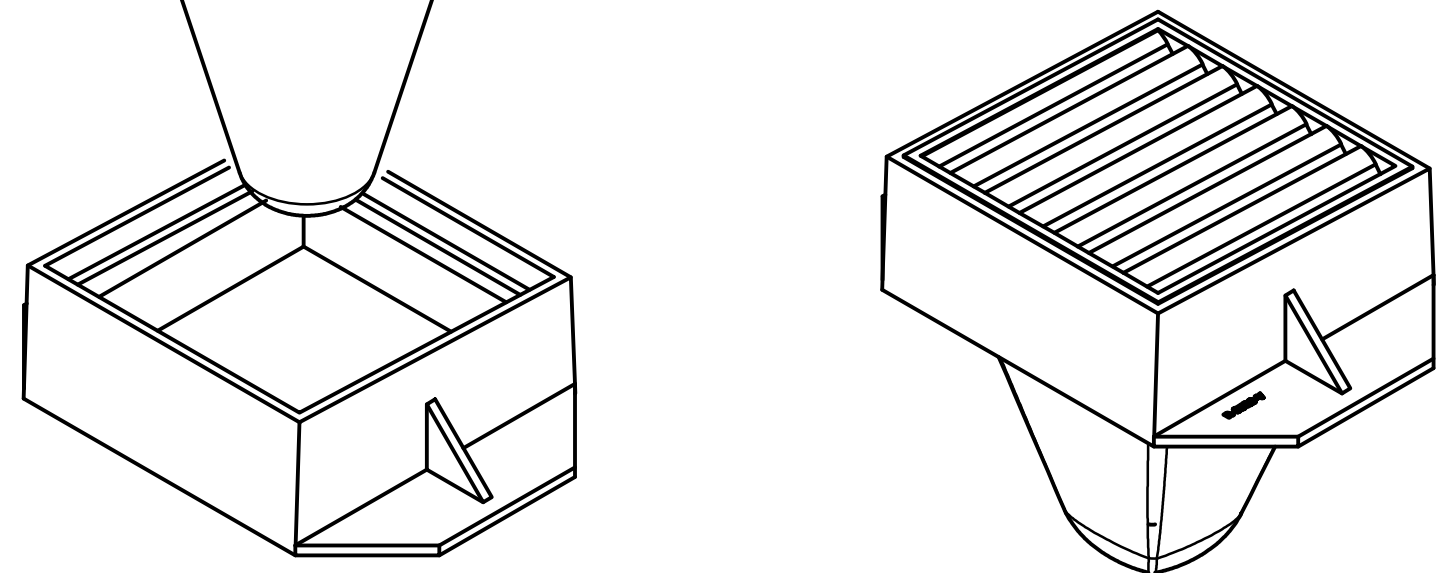
NOTES:

- FENCE POST SHALL BE EITHER STEEL "1" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 2.0 SQUARE INCHES. A CARPENTER'S (NOMINAL) 2"x2" POST WILL MEET SPECIFICATIONS.
- TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
- WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
- FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
- FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH APPARENT OPENING SIZE (AOS) OF AT LEAST 40 FOR NONWOVEN AND WOVEN (OR MAXIMUM OF 0.60mm).
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

Scale For Microfining
Millimeters
Inches

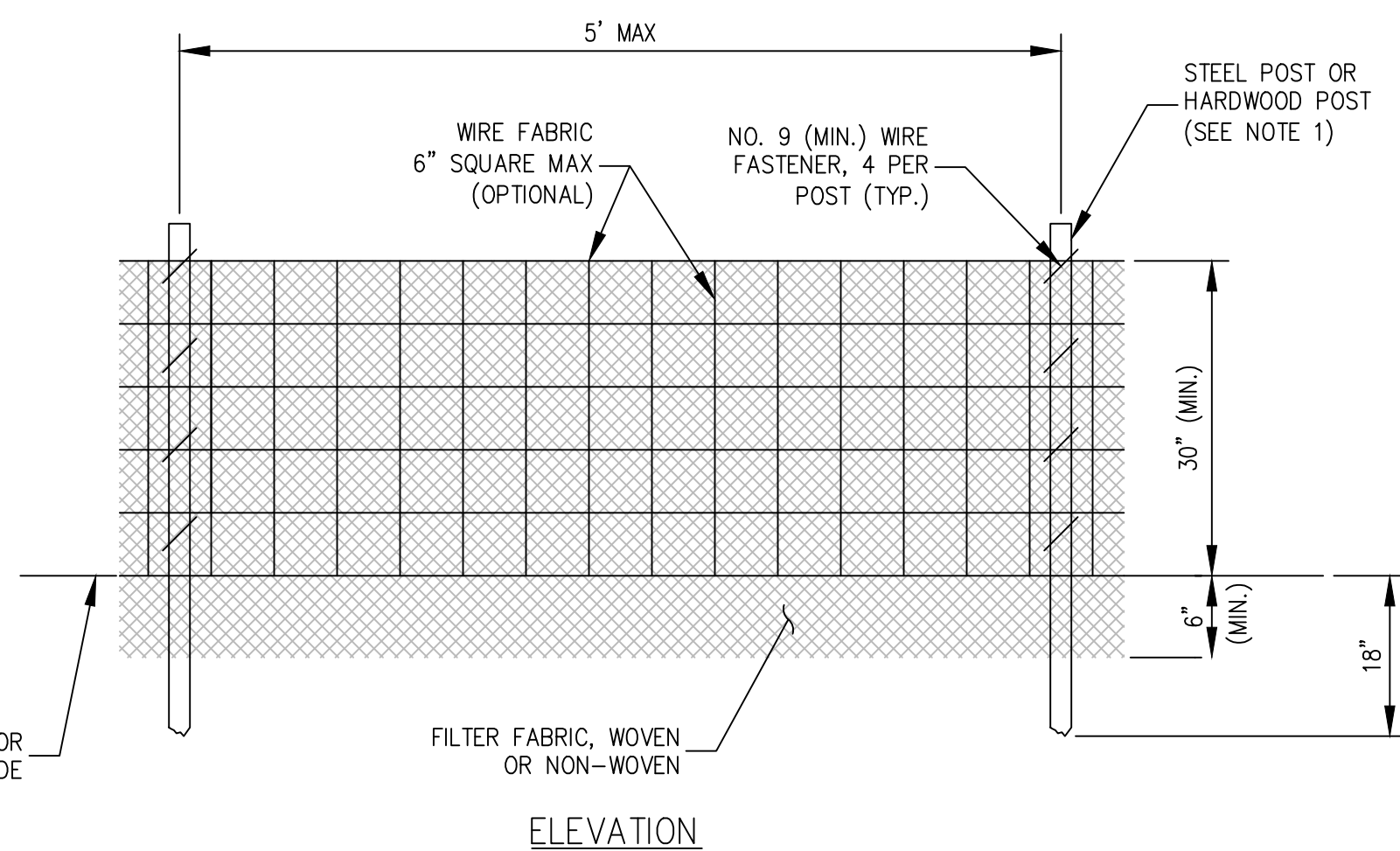
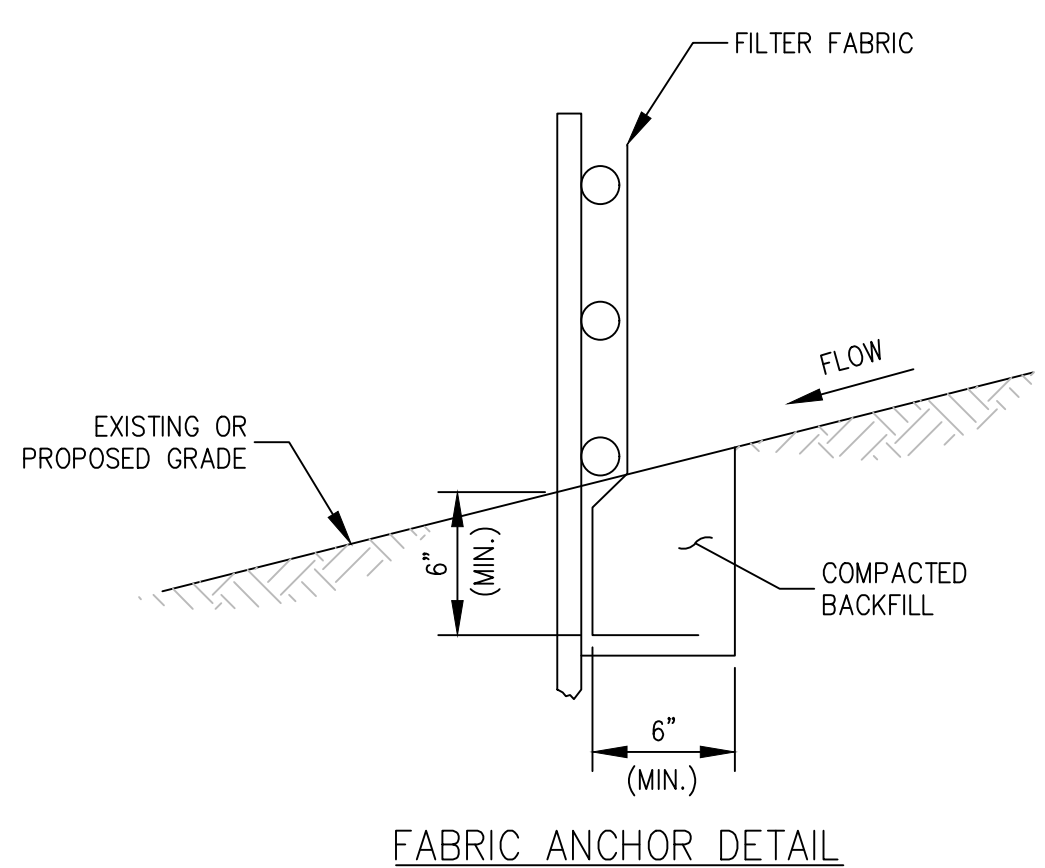


- INSTALLATION:**
- REMOVE GRATE
 - DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
 - REPLACE GRATE



NOTES:

- FILTER FABRIC INLET PROTECTION SHALL CONSIST OF INLET BASKET AND FABRIC INSERT, IPP FLEXSTORM BY EROTEX OR EQUAL.
- DEVICE SHALL BE EQUIPPED WITH AN OVERFLOW FEATURE SO DRAINAGE TO INLET IS NOT COMPLETELY BLOCKED IF DEVICE IS FULL OF SILT.
- INLET BASKET IS AVAILABLE TO FIT ROUND, RECTANGULAR, BEEHIVE OR CURB INLET CASTINGS.
- FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE (AOS) OF AT LEAST 70 SIEVE FOR NONWOVEN.
- FILTER FABRIC SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 100 LBS FOR NON WOVEN.
- POLYESTER OUTER REINFORCEMENT BAG SHALL HAVE FABRIC WITH A WEIGHT OF 4.55 OZ/SQYD +/- 15 PERCENT.
- FRAME CONSTRUCTION SHALL HAVE A TENSILE STRENGTH OF AT LEAST 58,000 PSI AND A YIELD STRENGTH OF AT LEAST 36,000 PSI.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED. REMOVE SILT FROM FABRIC INSERT WHEN 50% OF CAPACITY IS REACHED. REMOVE SILT FROM INTERIOR AND EXTERIOR OF INLET DAM WHEN 50% OF DAM HEIGHT IS REACHED.
- PAYMENT FOR INLET PROTECTION MAINTENANCE SHALL BE INCIDENTAL TO INLET PROTECTION.



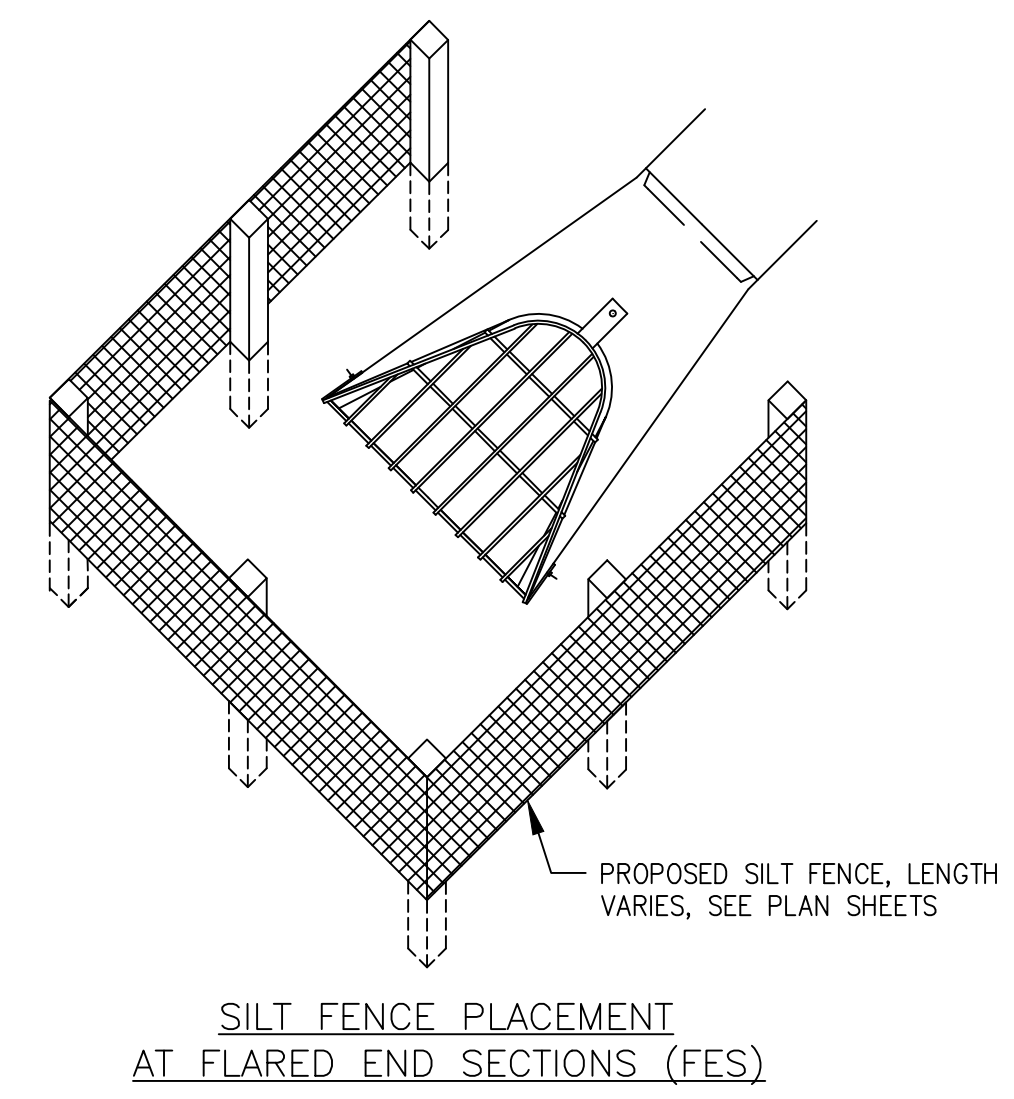
INLET PROTECTION - PERVIOUS AREAS

SILT FENCE - SPLICING TWO FENCES

ATTACHING TWO SILT FENCES

- Place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
- Drive both posts a minimum of 18 inches into the ground and bury the flap.
- Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE			STANDARD DWG. NO.
Project	Date		IUM-620B(W)
Designed	Date		SHEET 1 OF 1
Checked	Date		DATE 3-16-2012
Approved	Date		



no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

BURNS & MCDONNELL

200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date MARCH 19, 2018	designed J. YAHYA	detailed K. GOODWIN	checked B. QUINLAN
------------------------	----------------------	------------------------	-----------------------



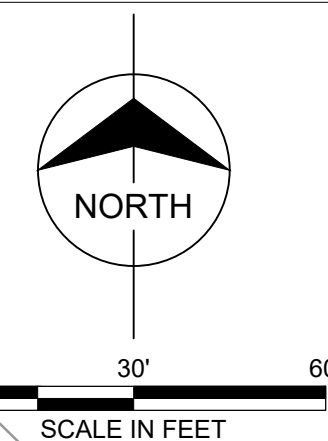
**RECONSTRUCT AND REALIGN TAXIWAY E
SWPPP NOTES AND DETAILS**

IL Proj. No. TIP-4579	contract RA016
BMCD Proj. No. 95601	rev. 0
CG-210	
sheet 23 of 38 sheets	

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NOTES:

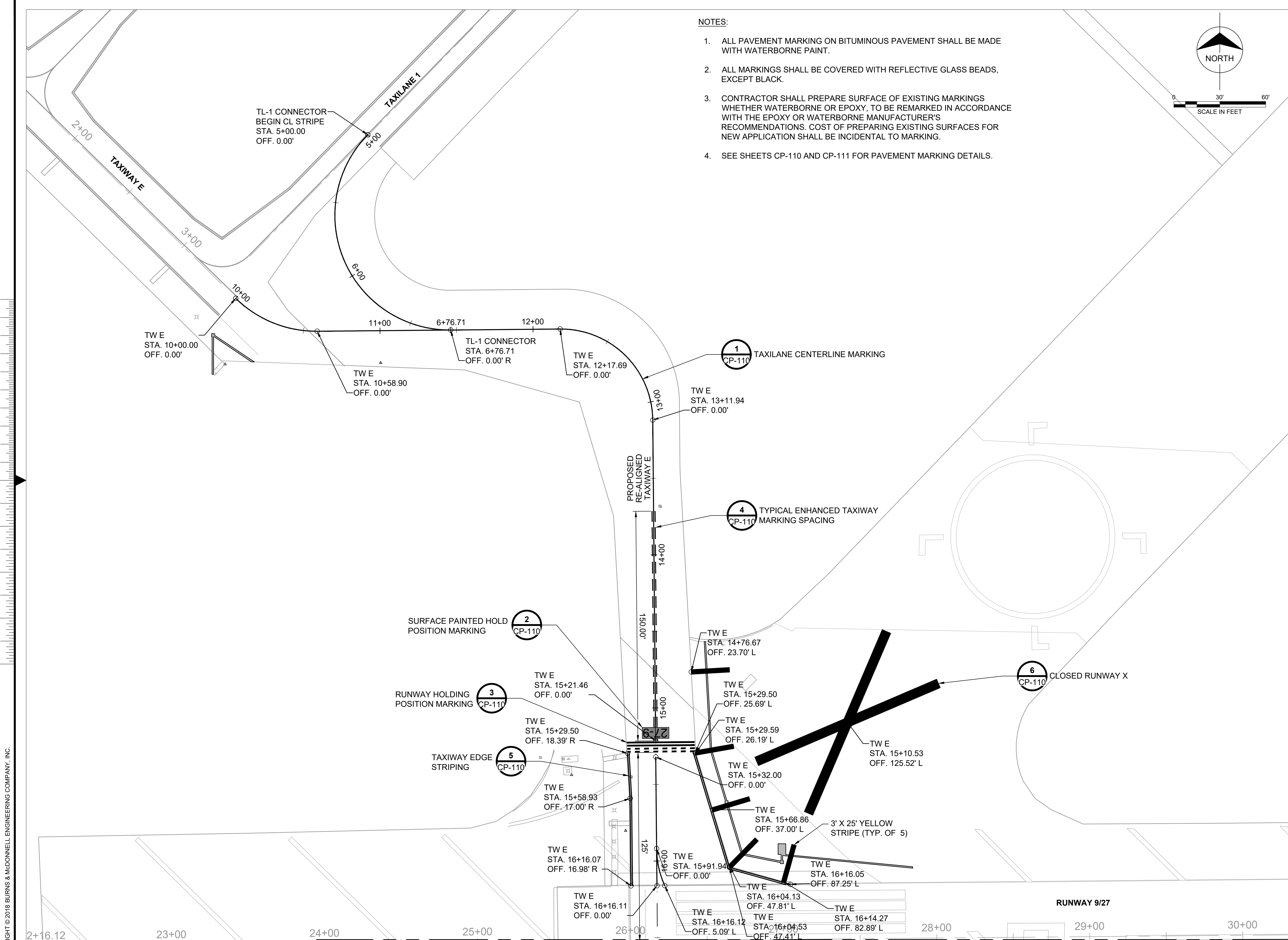
1. ALL PAVEMENT MARKING ON BITUMINOUS PAVEMENT SHALL BE MADE WITH WATERBORNE PAINT.
2. ALL MARKINGS SHALL BE COVERED WITH REFLECTIVE GLASS BEADS, EXCEPT BLACK.
3. CONTRACTOR SHALL PREPARE SURFACE OF EXISTING MARKINGS WHETHER WATERBORNE OR EPOXY, TO BE REMARKED IN ACCORDANCE WITH THE EPOXY OR WATERBORNE MANUFACTURER'S RECOMMENDATIONS. COST OF PREPARING EXISTING SURFACES FOR NEW APPLICATION SHALL BE INCIDENTAL TO MARKING.
4. SEE SHEETS CP-110 AND CP-111 FOR PAVEMENT MARKING DETAILS.



no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

Millimeters
Scale For Microfining

Inches



MATCH LINE: SEE SHEET CP-102



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH, 16, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



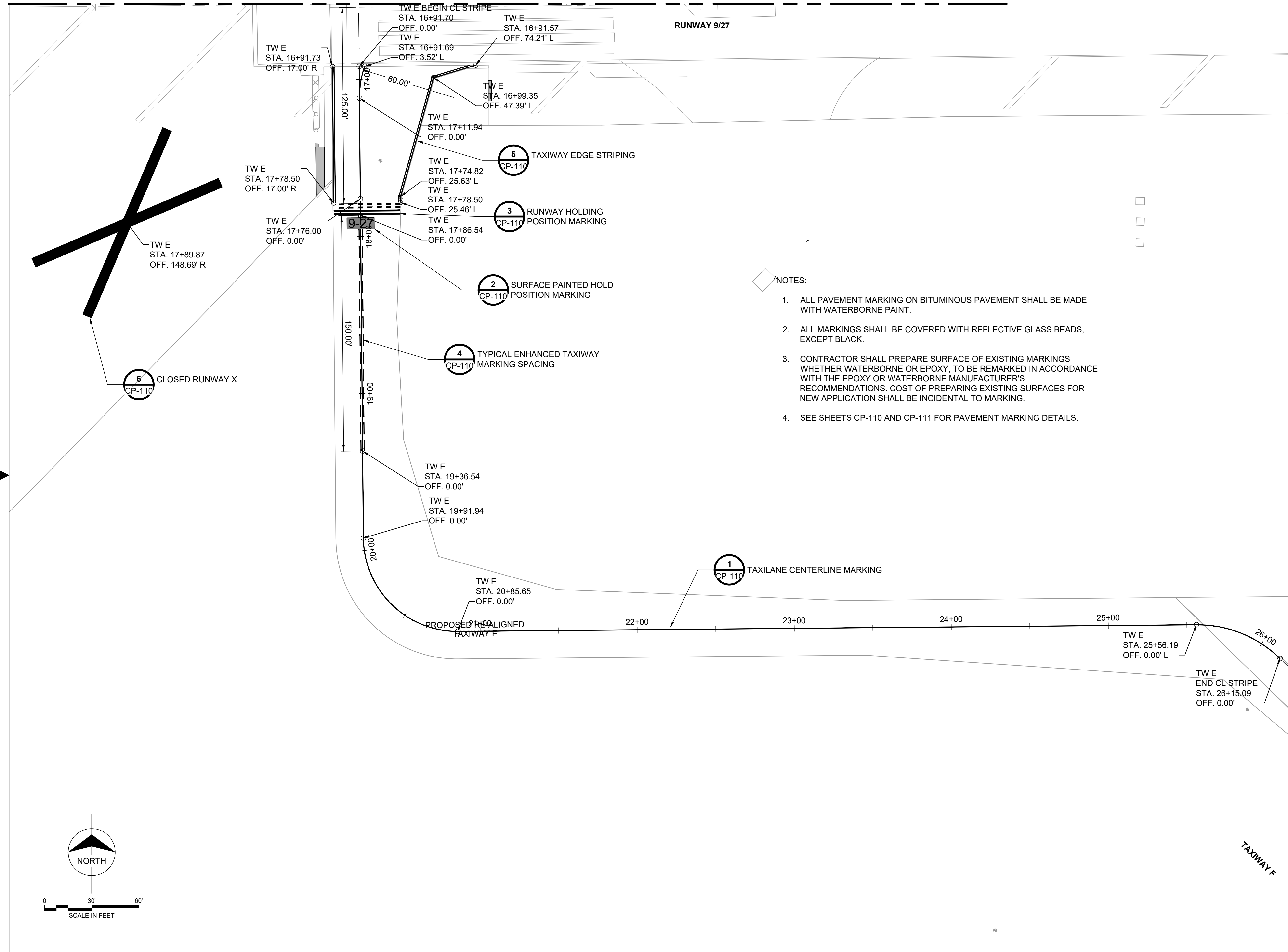
**RECONSTRUCT AND REALIGN TAXIWAY E
PAVEMENT MARKING PLAN**

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CP-101	0
sheet 24 of 38 sheets	
file 95601_CP-101_PAVEMENT MARKING PLAN	

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MATCH LINE: SEE SHEET CP-101

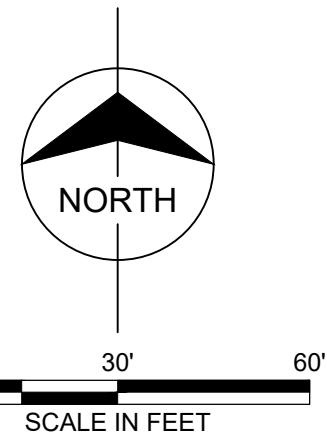
no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



- NOTES:**
- ALL PAVEMENT MARKING ON BITUMINOUS PAVEMENT SHALL BE MADE WITH WATERBORNE PAINT.
 - ALL MARKINGS SHALL BE COVERED WITH REFLECTIVE GLASS BEADS, EXCEPT BLACK.
 - CONTRACTOR SHALL PREPARE SURFACE OF EXISTING MARKINGS WHETHER WATERBORNE OR EPOXY, TO BE REMARKED IN ACCORDANCE WITH THE EPOXY OR WATERBORNE MANUFACTURER'S RECOMMENDATIONS. COST OF PREPARING EXISTING SURFACES FOR NEW APPLICATION SHALL BE INCIDENTAL TO MARKING.
 - SEE SHEETS CP-110 AND CP-111 FOR PAVEMENT MARKING DETAILS.

Scale For Microfilming
Millimeters

Inches



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 16, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

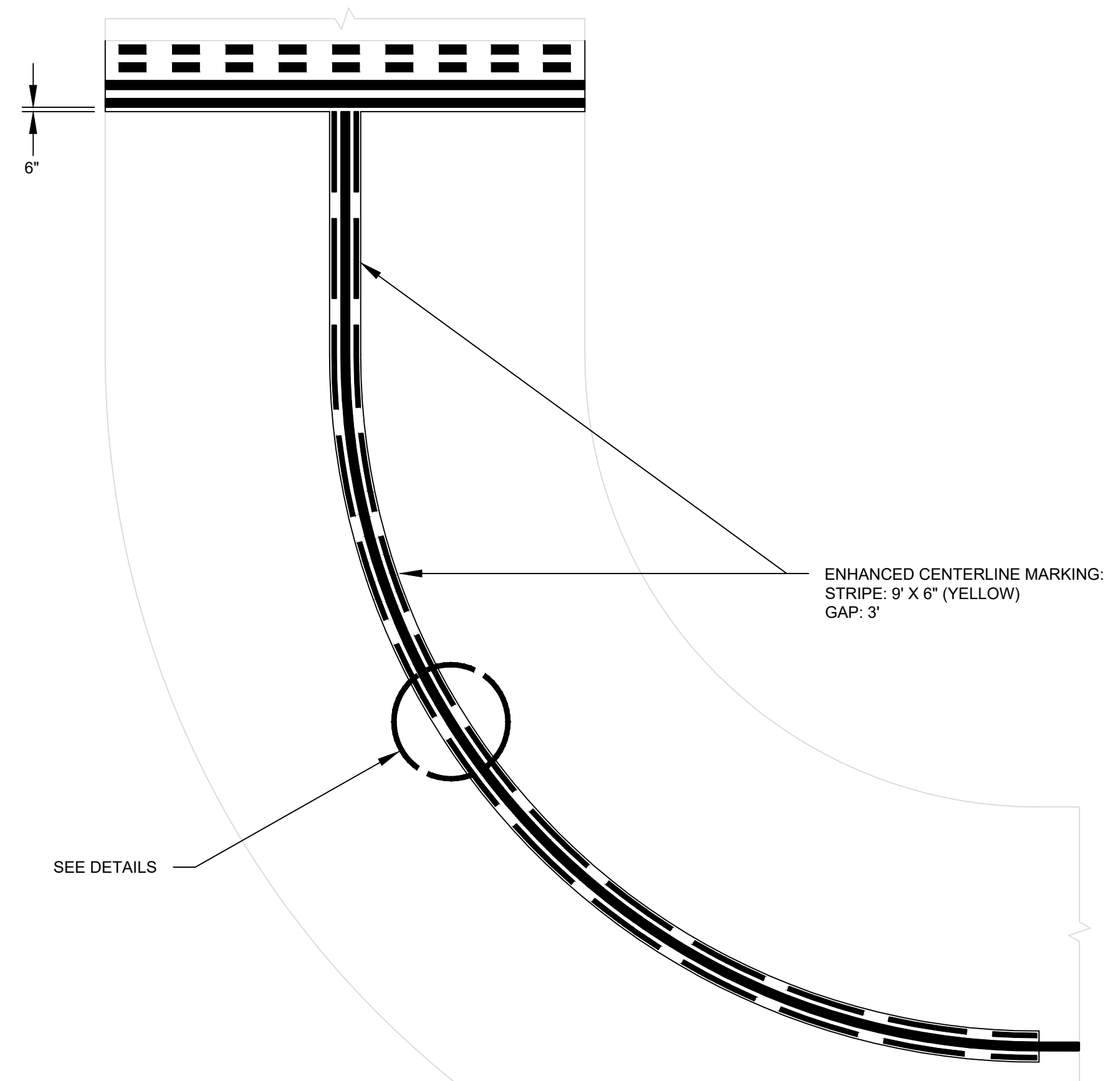
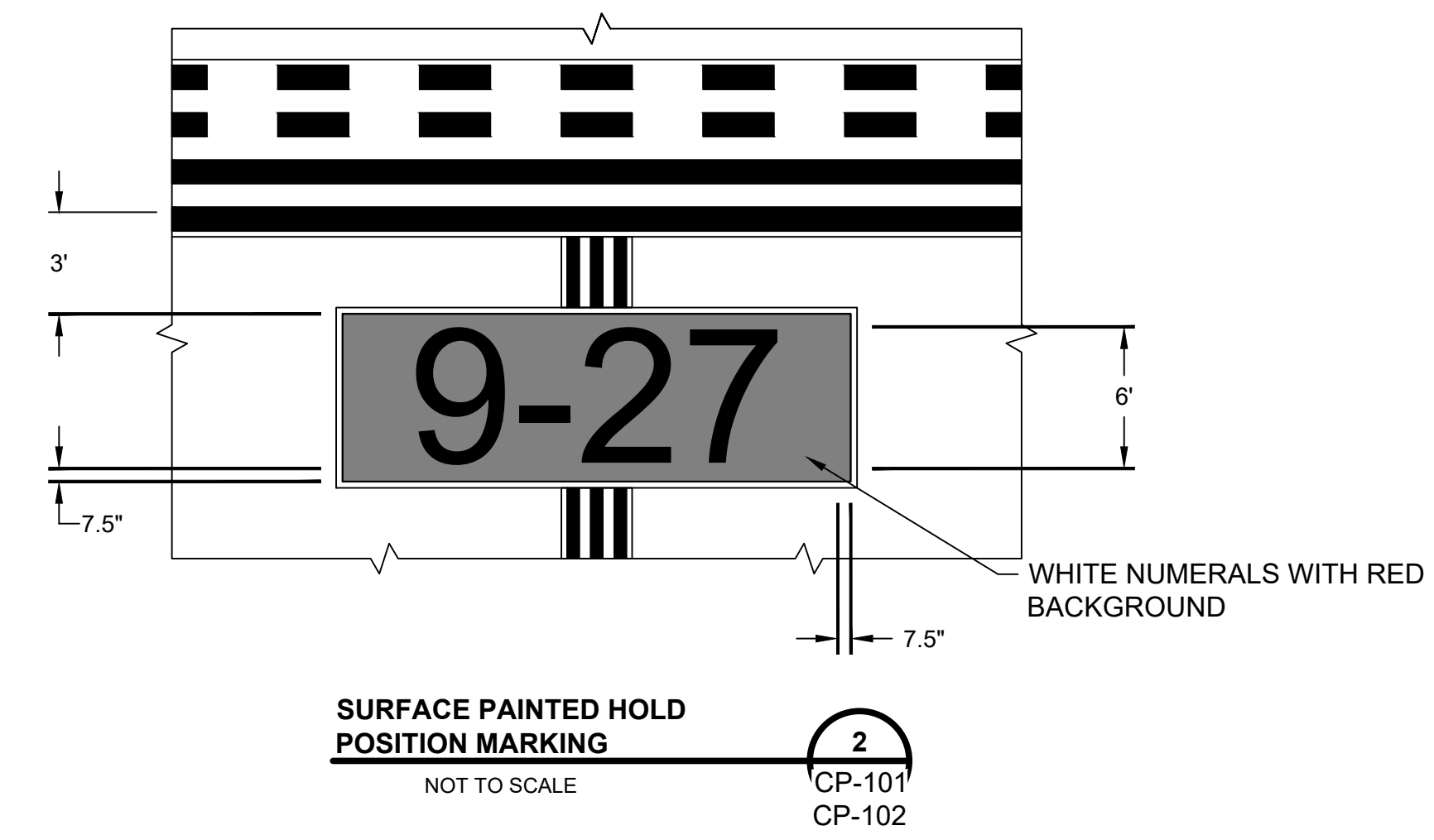
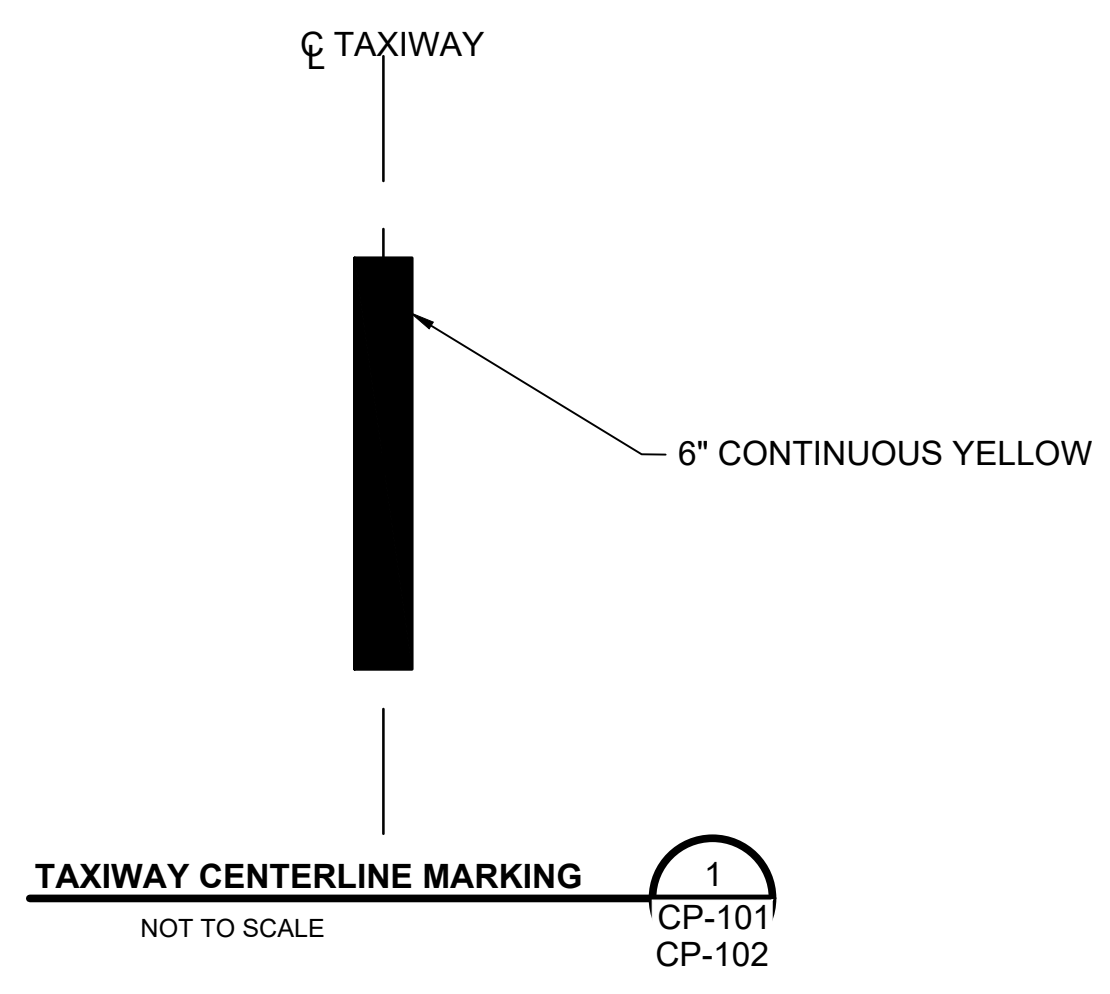


**RECONSTRUCT AND REALIGN TAXIWAY E
PAVEMENT MARKING PLAN**

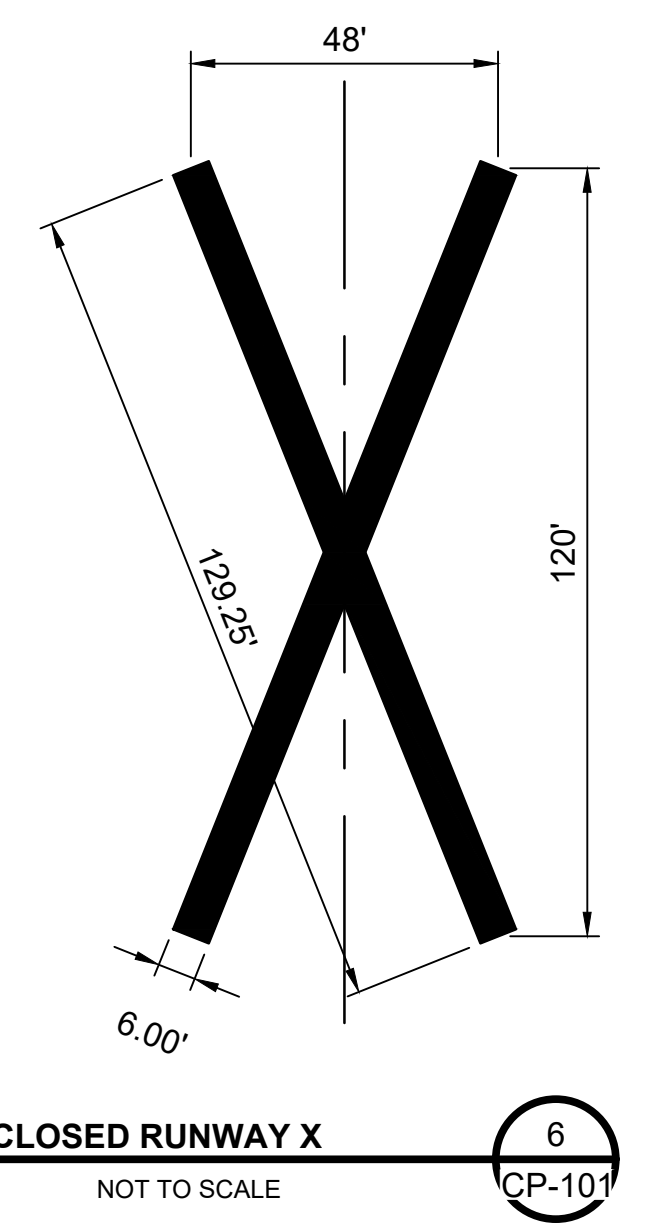
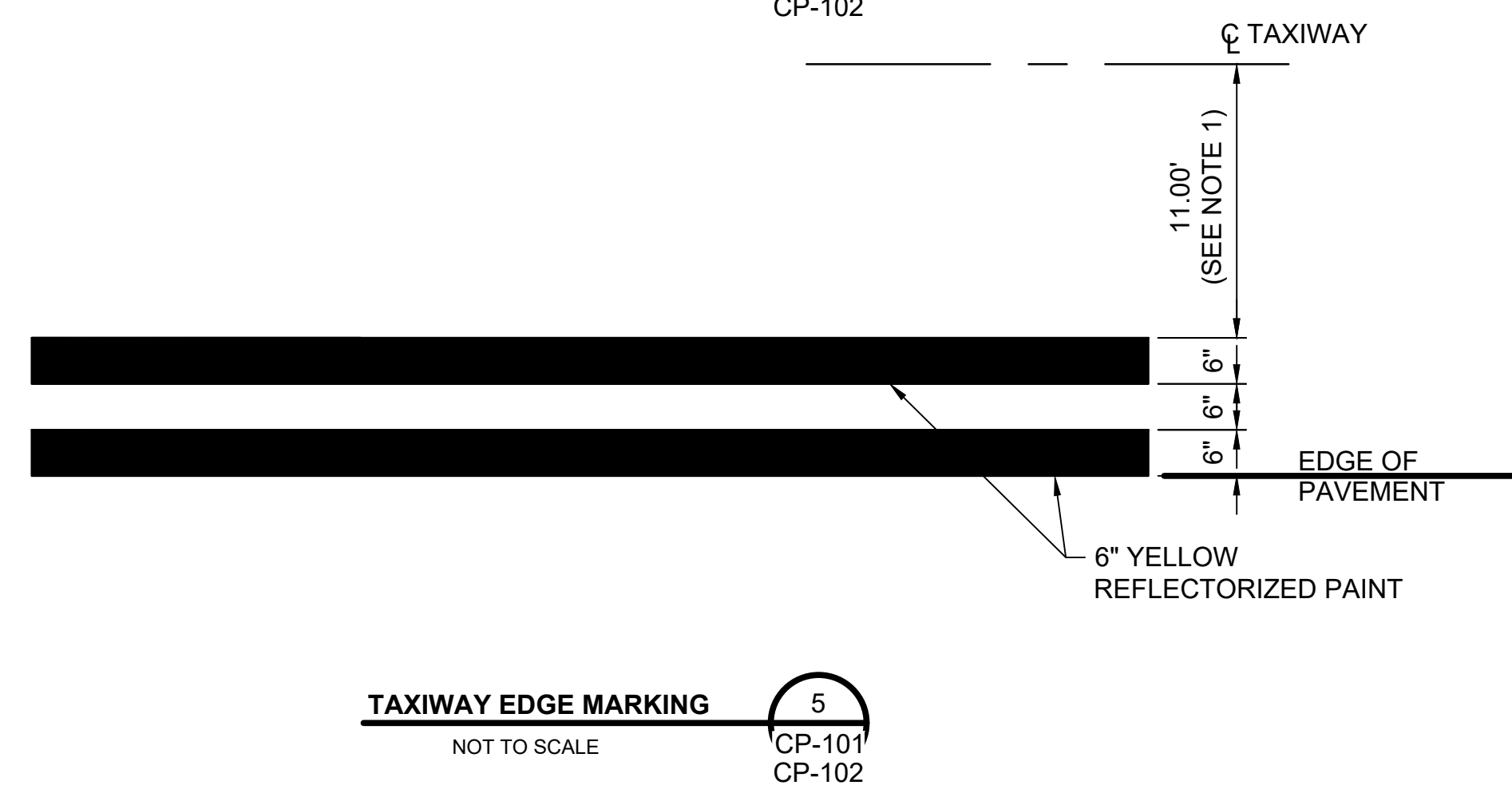
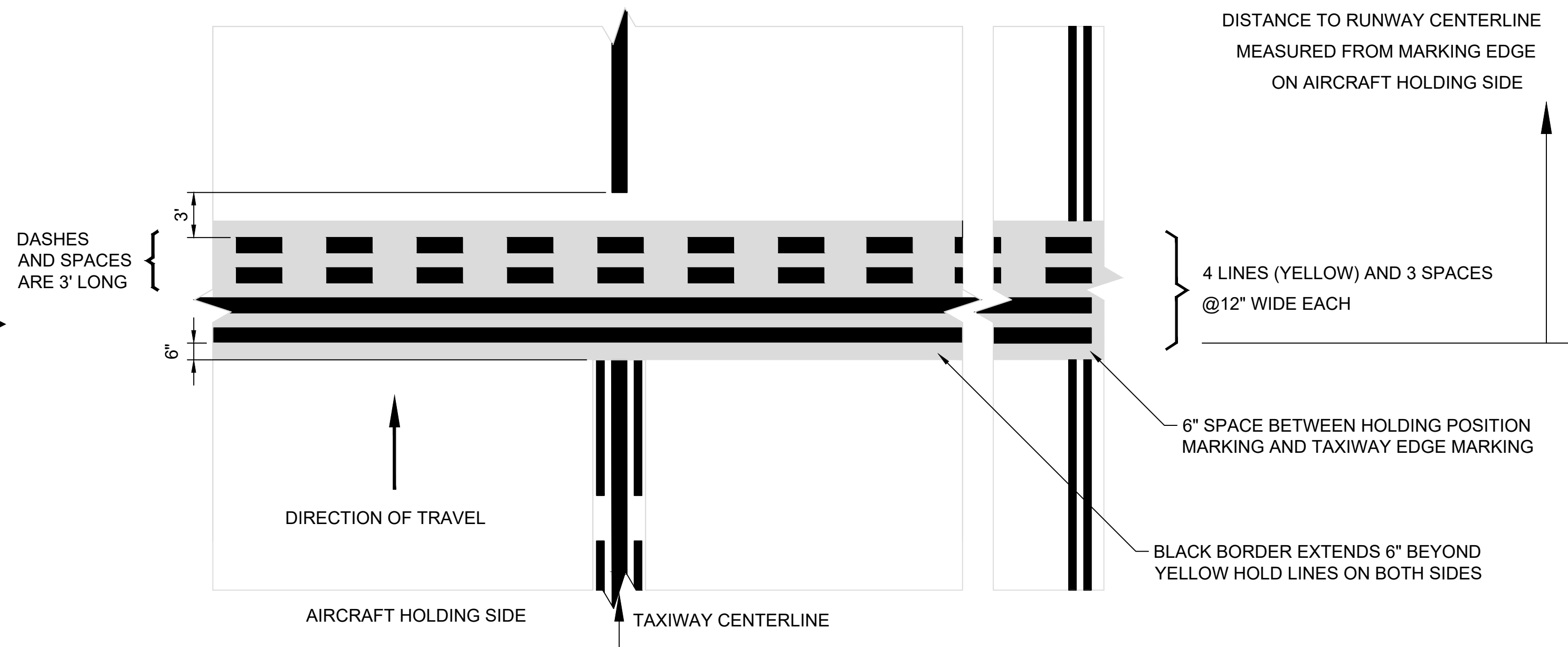
IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CP-102	0
sheet 25 of 38 sheets	

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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



Scale For Microfilming
Millimeters
Inches



- PAVEMENT MARKING NOTES:**
- CONTRACTOR SHALL USE CUT-OFF SHEETS TO ENSURE STRAIGHT EDGES OF PAINTED MARKINGS.
 - SEE SHEET CP-111 FOR NUMERAL MARKINGS GUIDE SHEET.
 - ALL NEW PAVEMENT MARKINGS NOT ON NEWLY PAVED ASPHALT MUST HAVE A 6" BLACK BORDER, UNLESS OTHERWISE NOTED.

BURNS & MCDONNELL
200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 16, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

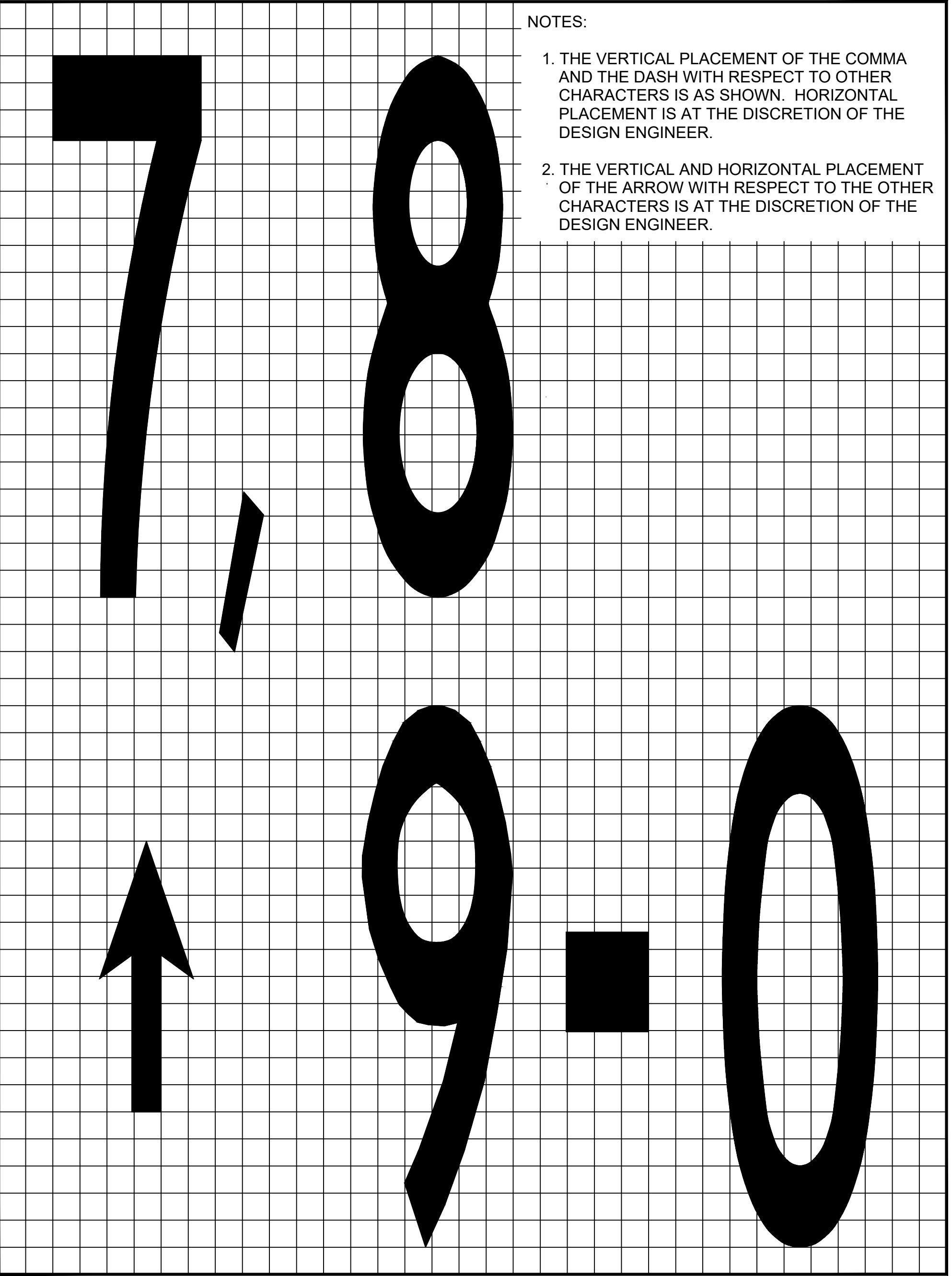
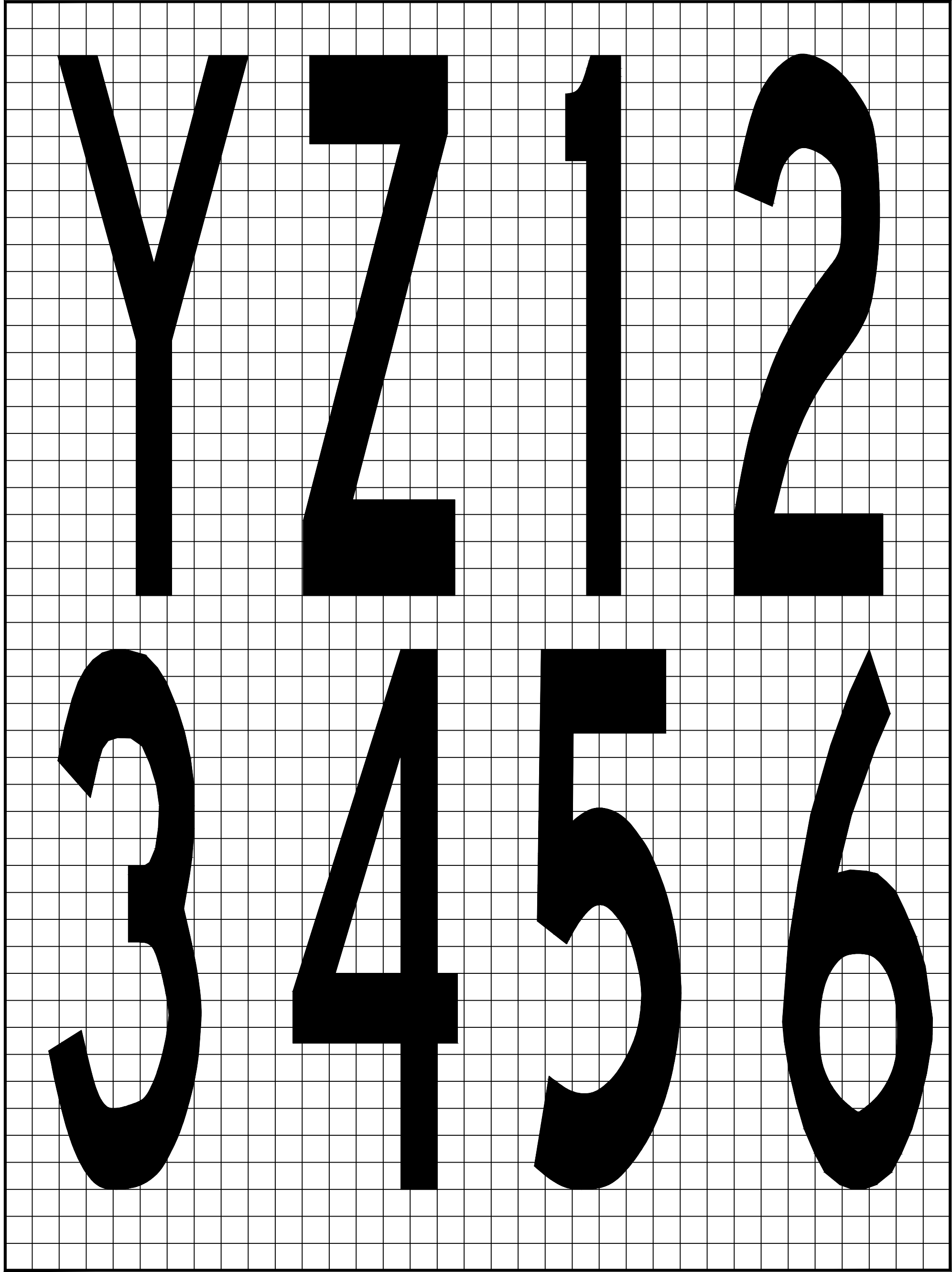


RECONSTRUCT AND REALIGN TAXIWAY E PAVEMENT MARKING DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CP-110 - 0	
sheet 26	of 38 sheets

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no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION

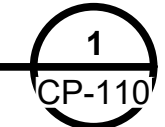


NOTES:

1. THE VERTICAL PLACEMENT OF THE COMMA AND THE DASH WITH RESPECT TO OTHER CHARACTERS IS AS SHOWN. HORIZONTAL PLACEMENT IS AT THE DISCRETION OF THE DESIGN ENGINEER.
2. THE VERTICAL AND HORIZONTAL PLACEMENT OF THE ARROW WITH RESPECT TO THE OTHER CHARACTERS IS AT THE DISCRETION OF THE DESIGN ENGINEER.

Scale For Microfining
Millimeters
Inches

RUNWAY HOLDING POSITION NUMERAL MARKINGS
NOT TO SCALE



- PAVEMENT MARKING NOTES:
1. CONTRACTOR SHALL USE CUT-OFF SHEETS TO ENSURE STRAIGHT EDGES OF PAINTED MARKINGS.
 2. SURFACE PAINTED NUMERALS ARE 6" HIGH. CONTRACTOR MUST PAINT NUMERALS PROPORTIONALLY PER THE THE GRID SHOWN ON THIS SHEET.



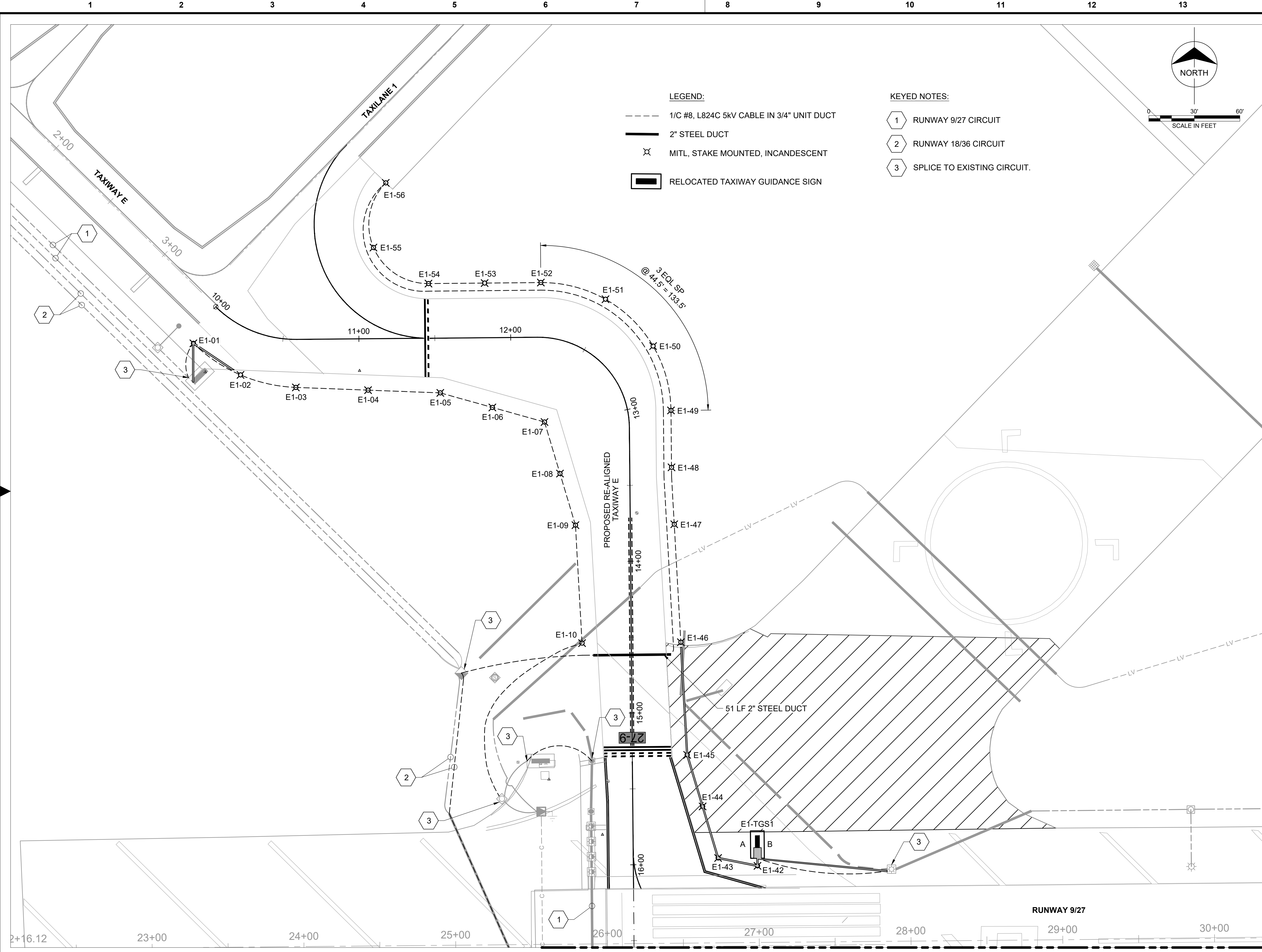
200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	APRIL 17, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



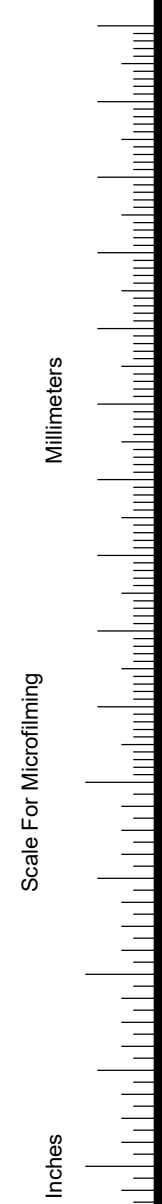
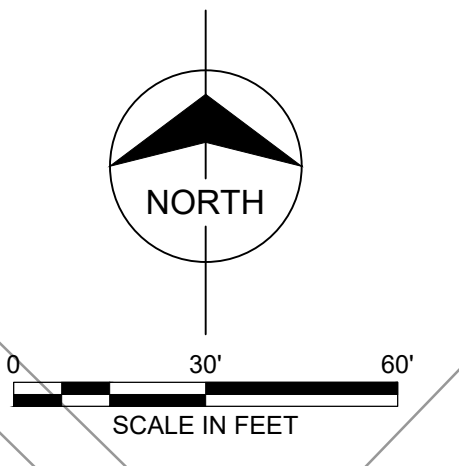
RECONSTRUCT AND REALIGN TAXIWAY E PAVEMENT MARKING DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CP-111	0
sheet 27	of 38 sheets



- LEGEND:**
- 1/C #8, L824C 5kV CABLE IN 3/4" UNIT DUCT
 - 2" STEEL DUCT
 - ⊗ MITL. STAKE MOUNTED, INCANDESCENT
 - ▭ RELOCATED TAXIWAY GUIDANCE SIGN

- KEYED NOTES:**
- 1 RUNWAY 9/27 CIRCUIT
 - 2 RUNWAY 18/36 CIRCUIT
 - 3 SPLICE TO EXISTING CIRCUIT.



no.	date	by	ckd	description
0	04/20/18	AC	SRK	ISSUED FOR CONSTRUCTION

BURNS MEDONNELL
 200 W ADAMS ST. STE 2601
 CHICAGO, IL 60606
 312-223-0920
 LICENSEE NO. 184-001310

date	MARCH 5, 2018	detailed	A. CHAMBERLAIN
designed	A. CHAMBERLAIN	checked	B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
 ELECTRICAL SITE PLAN**

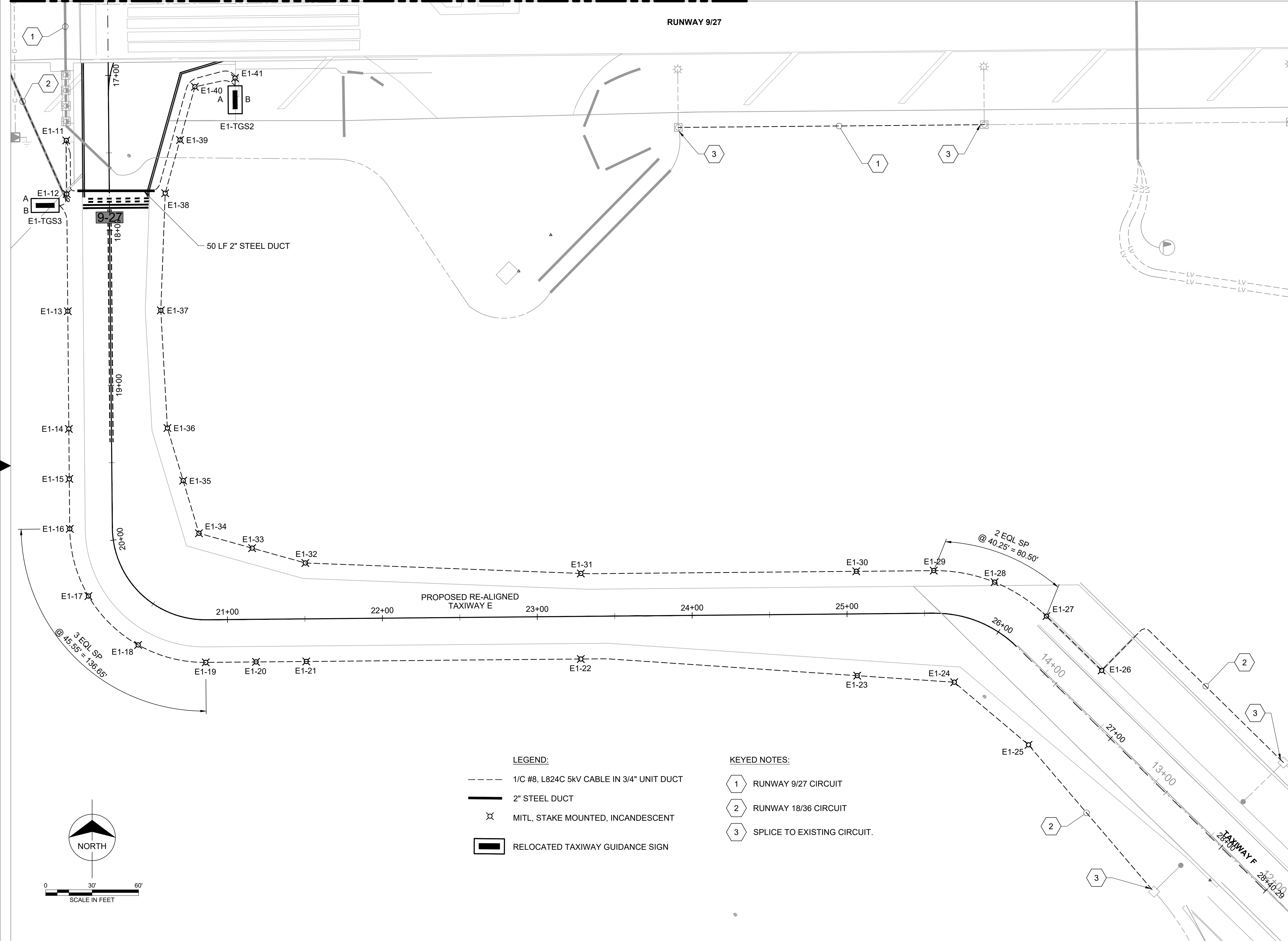
IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
EA-101	0
sheet 28 of 38 sheets	file 95601_EA-101_ELECTRICAL SITE PLAN

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MATCH LINE: SEE SHEET EA-102

MATCH LINE: SEE SHEET EA-101

RUNWAY 9/27



LEGEND:

- 1/C #8, L824C 5KV CABLE IN 3/4" UNIT DUCT
- 2" STEEL DUCT
- ⊗ MITL. STAKE MOUNTED, INCANDESCENT
- █ RELOCATED TAXIWAY GUIDANCE SIGN

KEYED NOTES:

- 1 RUNWAY 9/27 CIRCUIT
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- 3 SPLICE TO EXISTING CIRCUIT.

no.	date	by	ckd	description
0	04/20/18	AC	SRK	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 5, 2018	detailed	A. CHAMBERLAIN
designed	J. YAHYA	checked	B. QUINLAN



**RECONSTRUCT AND REALIGN TAXIWAY E
ELECTRICAL SITE PLAN**

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
EA-102	0
sheet 29 of 38 sheets	file 95601_EA-102_ELECTRICAL SITE PLAN

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TAXIWAY LIGHTING SCHEDULE

TAG ID.	DESCRIPTION	TYPE	DIRECTION	COLOR	MOUNTING	STATION	OFFSET	LT/RT	TAG ID.
E1-01	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+18.6	102.58	LT	E1-01
E1-02	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+10.15	60.08	LT	E1-02
E1-03	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+46.18	36	LT	E1-03
E1-04	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+83.19	36	LT	E1-04
E1-05	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	12+19.25	36.03	LT	E1-05
E1-06	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	12+47.02	35.83	LT	E1-06
E1-07	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	12+75.18	33.03	LT	E1-07
E1-08	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	13+04.43	28.19	LT	E1-08
E1-09	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	13+38.46	27.5	LT	E1-09
E1-10	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	13+75.94	28.97	LT	E1-10
E1-11	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	14+53.69	32.63	LT	E1-11
E1-12	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	15+27.94	36.13	LT	E1-12
E1-13	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	15+61.99	46	LT	E1-13
E1-14	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	15+96.05	55.88	LT	E1-14
E1-15	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	16+01.44	81.79	LT	E1-15
E1-16	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	14+53.69	32.47	RT	E1-16
E1-17	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	13+75.94	36.13	RT	E1-17
E1-18	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	13+41.88	46	RT	E1-18
E1-19	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	12+64.86	54.18	RT	E1-19
E1-20	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+87.55	45.98	RT	E1-20
E1-21	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+53.29	36.07	RT	E1-21
E1-22	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	11+05.73	33.84	RT	E1-22
E1-23	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	10+58.38	31.61	RT	E1-23
E1-24	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	10+31.76	29.85	RT	E1-24
E1-25	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	10+04.65	27.69	RT	E1-25
E1-26	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	17+02.44	81.79	LT	E1-26
E1-27	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	17+07.82	55.89	LT	E1-27
E1-28	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	17+42.08	45.98	LT	E1-28
E1-29	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	17+76.33	36.07	LT	E1-29
E1-30	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	18+51.94	32.55	LT	E1-30
E1-31	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	19+27.94	36.13	LT	E1-31
E1-32	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	19+61.99	46	LT	E1-32
E1-33	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	20+39.02	54.18	LT	E1-33
E1-34	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	21+16.33	45.98	LT	E1-34
E1-35	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	21+50.58	36.07	LT	E1-35
E1-36	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	23+28.35	27.74	LT	E1-36
E1-37	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	25+06.19	27.5	LT	E1-37
E1-38	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	25+56.19	27.5	LT	E1-38
E1-39	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	25+85.64	27.5	LT	E1-39
E1-40	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	26+15.09	27.5	LT	E1-40
E1-41	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	26+49.95	27.59	LT	E1-41
E1-42	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	26+50.06	39.78	RT	E1-42
E1-43	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	25+85.71	42.15	RT	E1-43
E1-44	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	25+06.19	39.87	RT	E1-44
E1-45	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	23+27.85	27.5	RT	E1-45
E1-46	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	21+50.58	27.5	RT	E1-46
E1-47	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	21+18.14	27.5	RT	E1-47
E1-48	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	20+85.84	27.5	RT	E1-48
E1-49	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	20+54.65	27.68	RT	E1-49
E1-50	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	20+23.48	27.68	RT	E1-50
E1-51	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	19+92.28	27.5	RT	E1-51
E1-52	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	19+60.19	27.5	RT	E1-52
E1-53	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	19+27.94	27.5	RT	E1-53
E1-54	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	18+51.94	27.5	RT	E1-54
E1-55	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	17+76.33	27.5	RT	E1-55
E1-56	TAXIWAY EDGE LIGHT	L-861T	OMNIDIRECTIONAL	BLUE	STAKE	17+41.70	27.5	RT	E1-56

TAXI GUIDANCE SIGN SCHEDULE

TAG ID.	DESCRIPTION	DIRECTION	SIDE A	SIDE B	EXISTING STATION	EXISTING OFFSET	RT/LT	RELOCATED STATION	RELOCATED OFFSET	RT/LT	TAG ID.
E1-TGS1	GUIDANCE SIGN	DOUBLE FACE		FB O → ¹	15+73.38	286.27	LT	15+96.44	81.75	LT	E1-TGS1
E1-TGS2	GUIDANCE SIGN	DOUBLE FACE		← E → ¹	24+09.35	338.41	LT	17+07.44	81.75	LT	E1-TGS2
E1-TGS3	GUIDANCE SIGN	DOUBLE FACE	E 9 ²	E ²	14+87.62	57.30	LT	17+83.52	32.50	RT	E1-TGS3

NOTES:

1. YELLOW PLACARD WITH BLACK TEXT AND SYMBOLS.
2. THE LETTERING IS YELLOW TEXT ON A BLACK PLACARD. THE NUMERAL IS WHITE TEXT ON A RED PLACARD.

no.	date	by	ckd	description
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Millimeters

Scale For Microfining

Inches

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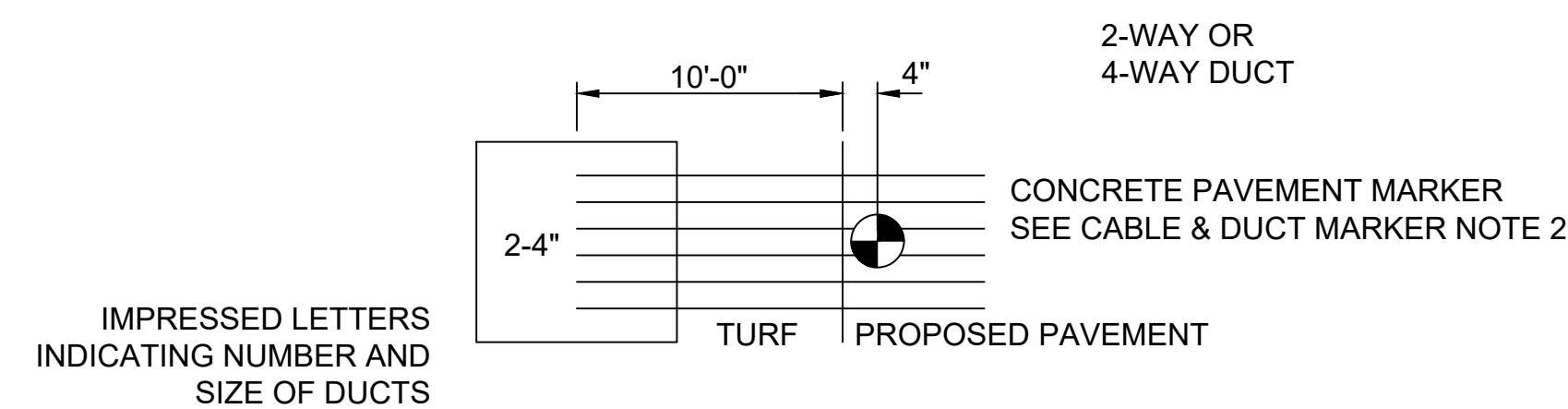
date	MARCH 22, 2018	detailed	A. CHAMBERLAIN
designed	J. YAHYA	checked	B. QUINLAN



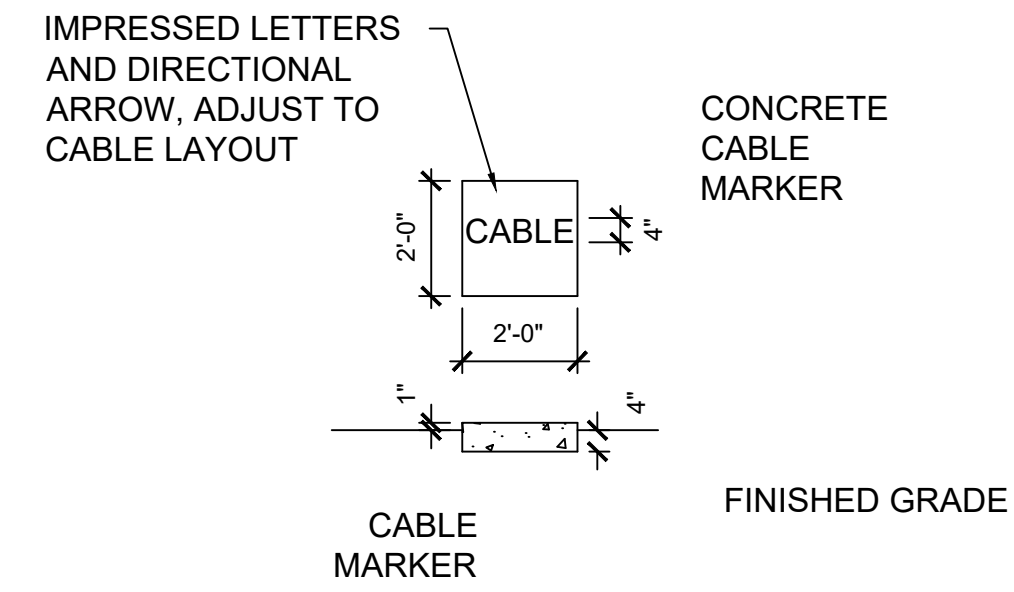
RECONSTRUCT AND REALIGN TAXIWAY E LIGHTING AND SIGNAGE SCHEDULES

IL Proj. No. TIP-4579	contract	RA016
BMCD Proj. No. 95601	rev.	
drawing	EA-110	0
sheet 30	of 38	sheets
file 95601_EA-110 LIGHTING AND SIGNAGE SCHEDULES		

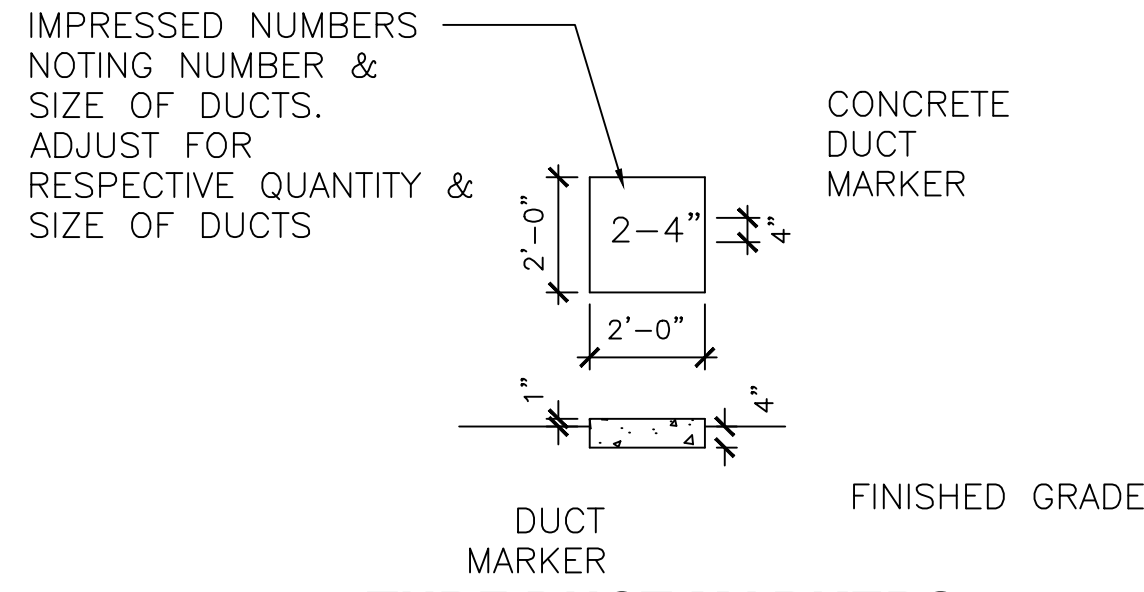
Scale For Microfinishing
Millimeters
Inches



DUCT MARKER DETAIL
"NOT TO SCALE"



TURF CABLE MARKERS
"NOT TO SCALE"

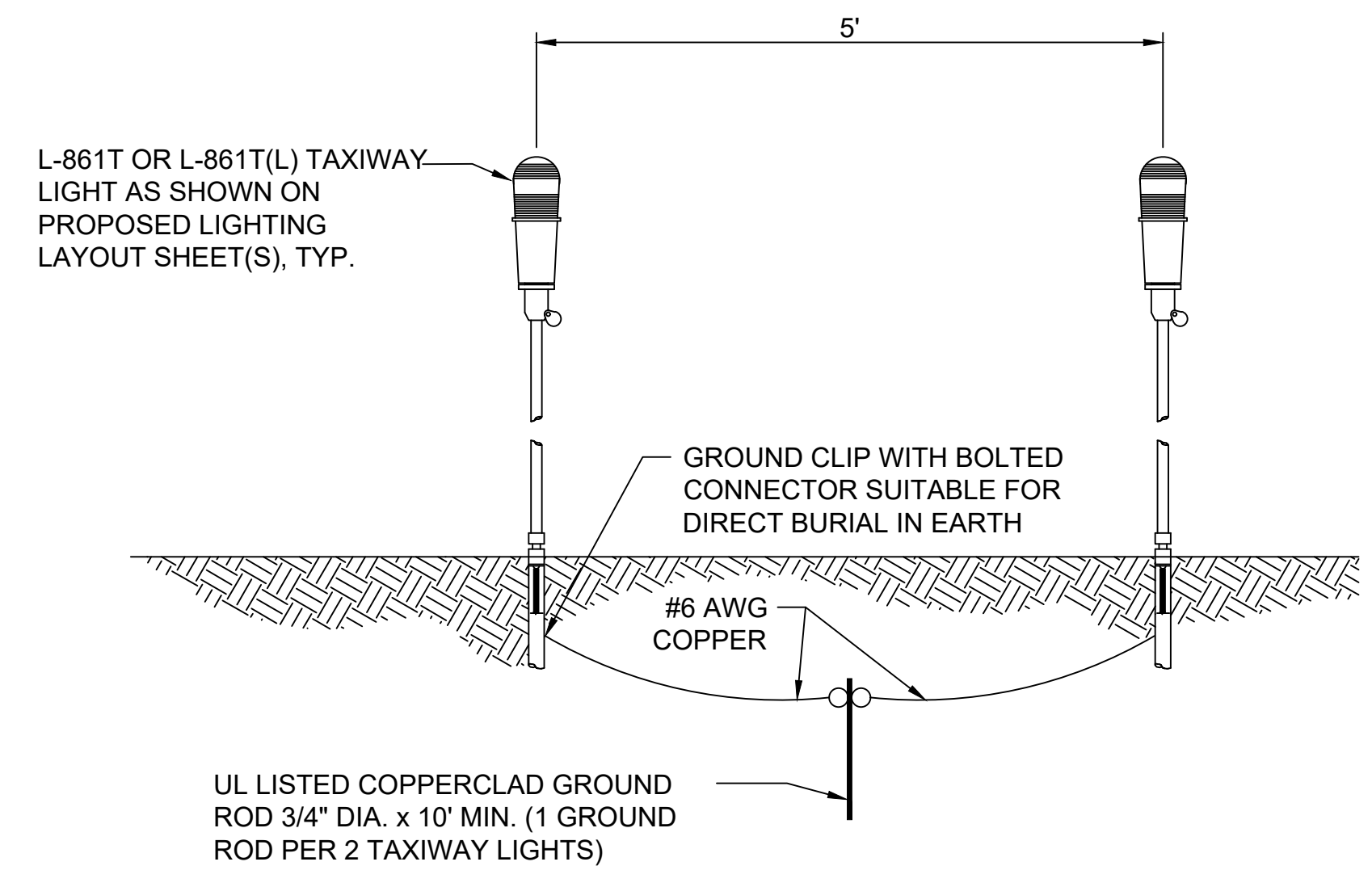


TURF DUCT MARKERS
"NOT TO SCALE"

- CABLE & DUCT MARKER NOTES:**
1. THE COST OF ALL TURF AND PAVEMENT DUCT MARKERS SHALL BE INCIDENTAL TO THE DUCT. THE COST OF ALL CABLE MARKERS SHALL BE INCIDENTAL TO THE CABLE.
 2. BITUMINOUS PAVEMENT DUCT MARKER AND CONCRETE DUCT MARKER TO BE PROVIDED AT EACH END OF EACH DUCT AS SHOWN ON THE LOCATION PLAN. FOR CONCRETE PAVEMENT, THE LETTER "D" SHALL BE IMPRESSED IN THE PAVEMENT INSTEAD OF THE MARKER. THE LETTER SHALL BE FORMED AS DESCRIBED IN NOTE 4.
 3. CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND APPROXIMATELY EVERY 200' ALONG CABLE RUNS.
 4. CONCRETE CABLE MARKERS AND DUCT MARKERS SHALL HAVE LETTERS 4" HIGH, 3" WIDE WITH WIDTH OF STROKE 1/2" AND 1/4" DEEP. ALL LETTERS, NUMBERS AND ARROWS TO BE IMPRESSED.
 5. EMPLOY THE FOLLOWING METHODS WERE ADDITIONAL SPACE TO FIT LEGEND IS REQUIRED:
 - A. REDUCE LETTER SIZE TO 3" HIGH, 2" WIDE.
 - B. INCREASE THE MARKER SIZE TO 30" X 30".
 - C. PROVIDE ADDITIONAL MARKERS PLACED SIDE BY SIDE.

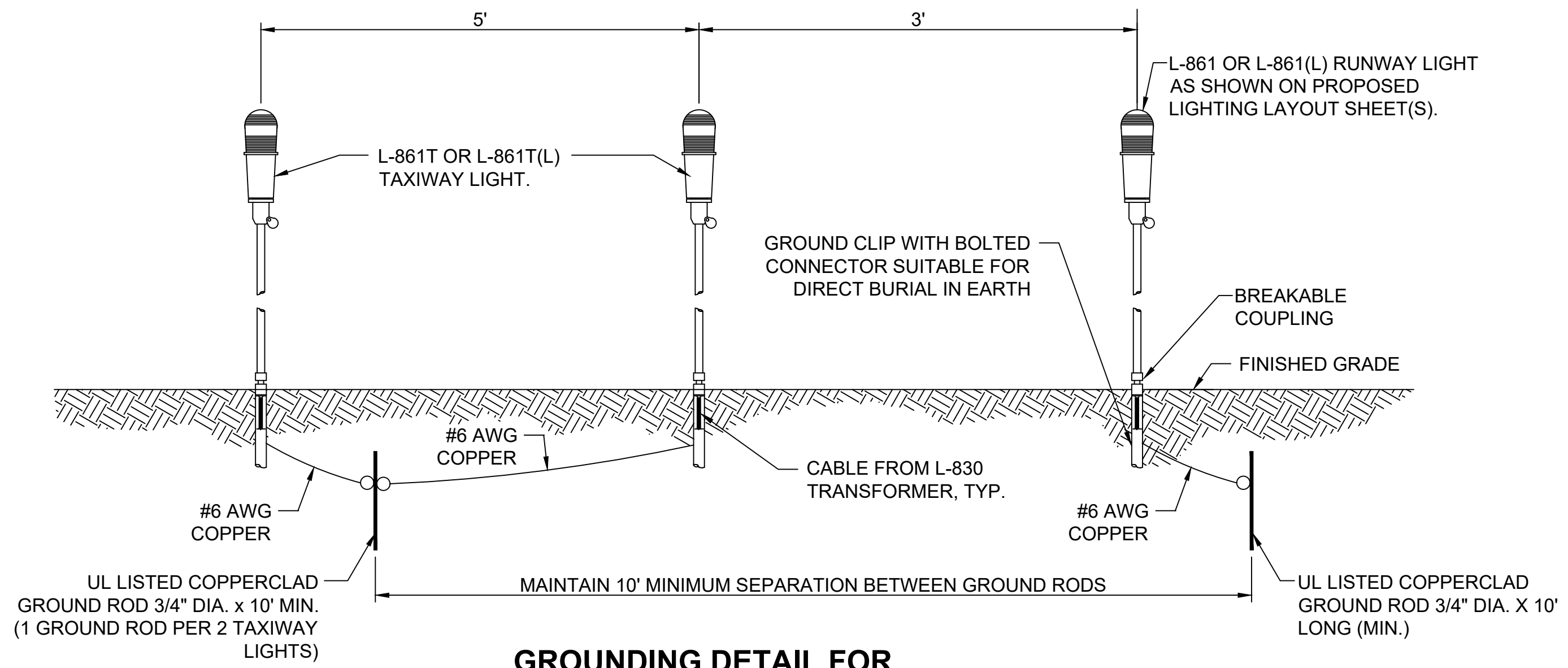
NOTES

1. GROUNDING FOR RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS SHALL BE AS DETAILED ON THE PLANS AND AS SPECIFIED HEREIN. PER FAA AC 150/5340-30J DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, CHAPTER 12, PART 12.6: A GROUND MUST BE INSTALLED AT EACH LIGHT FIXTURE. THE PURPOSE OF THE LIGHT BASE GROUND IS TO PROVIDE A DEGREE OF PROTECTION FOR MAINTENANCE PERSONNEL FROM POSSIBLE CONTACT WITH AN ENERGIZED LIGHT BASE OR MOUNTING STAKE THAT MAY RESULT FROM A SHORTED POWER CABLE OR ISOLATION TRANSFORMER. A LIGHT BASE GROUND SHALL BE INSTALLED AT EACH TRANSFORMER BASE/LIGHT CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS. A LIGHT BASE GROUND SHALL ALSO BE INSTALLED AT EACH STAKE MOUNTED LIGHT FIXTURE. A LIGHT BASE GROUND SHALL BE INSTALLED AND CONNECTED TO THE METAL FRAME OF EACH TAXI GUIDANCE SIGN AS DETAILED ON THE PLANS AND IN ACCORDANCE WITH THE RESPECTIVE TAXI GUIDANCE SIGN MANUFACTURER RECOMMENDATIONS. THE LIGHT BASE GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR BONDED TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE AND A 3/4-INCH DIAMETER BY 10-FEET LONG (MINIMUM) UL LISTED COPPER CLAD GROUND ROD. CONNECTIONS TO GROUND LUGS ON THE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE SHALL BE WITH A UL LISTED GROUNDING CONNECTOR SUITABLE FOR DIRECT BURIAL IN EARTH OR CONCRETE. CONNECTIONS TO GROUND RODS SHALL BE MADE WITH EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., SOLON, OHIO, (PHONE: 800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE: 918-663-1440), ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE: 800-842-7437), OR APPROVED EQUAL. EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS AS REQUIRED FOR EACH RESPECTIVE APPLICATION. BOLTED CONNECTIONS WILL NOT BE PERMITTED AT GROUND RODS. TOP OF GROUND RODS SHALL BE BURIED 12 INCHES MINIMUM BELOW GRADE, UNLESS SPECIFIED OTHERWISE HEREIN, FOR RESPECTIVE APPLICATIONS
2. FOR TAXIWAY LIGHTS THAT ARE SPACED WITH LESS THAN 10 FEET OF SEPARATION BETWEEN THEM PROVIDE ONE 5/8-INCH DIAMETER BY 8-FOOT LONG GROUND ROD PER TWO ADJACENT TAXIWAY LIGHTS.
3. CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS. METALLIC SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON-CONDUCTIVE MATERIAL PER 2017 NATIONAL ELECTRICAL CODE ARTICLE 250-12.
4. PER FAA 150/5430-30G THE RESISTANCE TO THE GROUND OF THE RESPECTIVE MOUNTING STAKE OR LIGHT BASE (WITH GROUND ROD CONNECTED) MUST BE 25 OHMS OR LESS.
5. FOR EACH GROUNDING ELECTRODE SYSTEM THE CONTRACTOR SHALL TEST THE MADE ELECTRODE GROUND SYSTEM WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUNDING SYSTEMS. TEST RESULTS SHALL BE RECORDED FOR EACH GROUNDING ELECTRODE SYSTEM. IF GROUND RESISTANCE EXCEEDS 25 OHMS, CONTACT THE PROJECT ENGINEER FOR FURTHER DIRECTION. COPIES OF THE GROUND SYSTEM TEST RESULTS SHALL BE FURNISHED TO THE RESIDENT ENGINEER.



GROUNDING DETAIL FOR ADJACENT TAXIWAY LIGHTS

(NOT TO SCALE)



GROUNDING DETAIL FOR ADJACENT RUNWAY AND TAXIWAY LIGHTS

(NOT TO SCALE)

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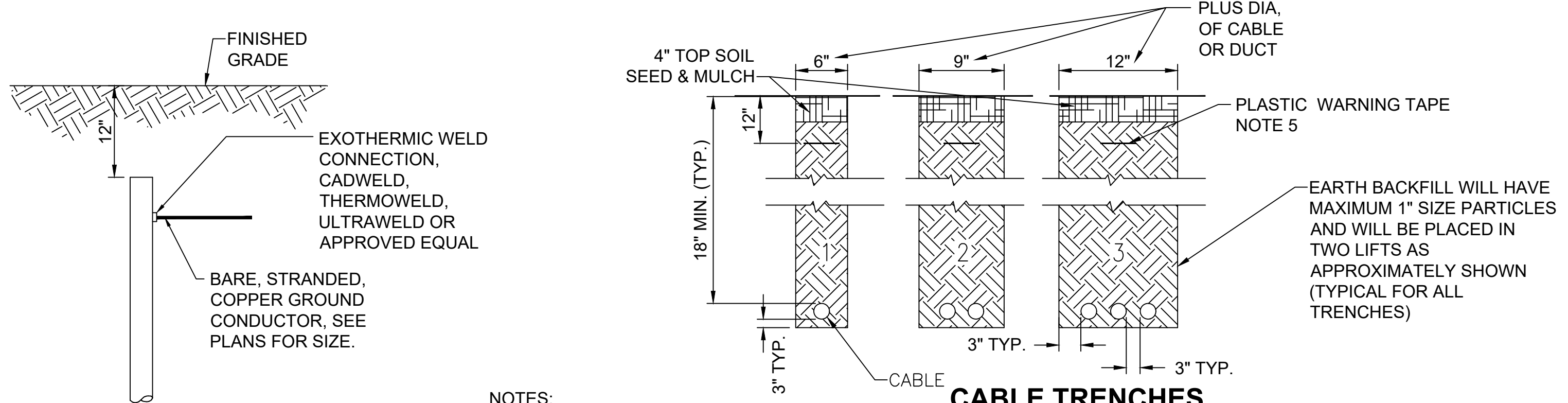
200 W ADAMS ST. STE 2601
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312-223-0920
LICENSEE NO. 184-001310

date	MARCH 22, 2018	detailed	A. CHAMBERLAIN
designed	J. YAHYA	checked	B. QUINLAN



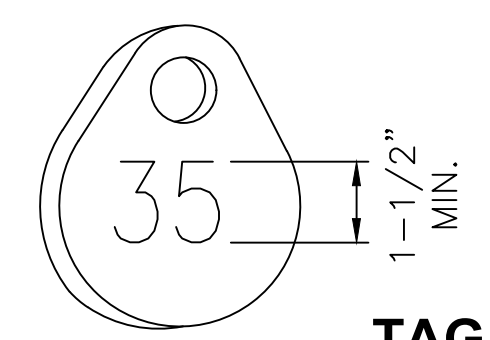
RECONSTRUCT AND REALIGN TAXIWAY E ELECTRICAL DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
EA-111 - 0	
sheet 31	of 38 sheets
file 95601_EA-111 ELECTRICAL DETAILS	



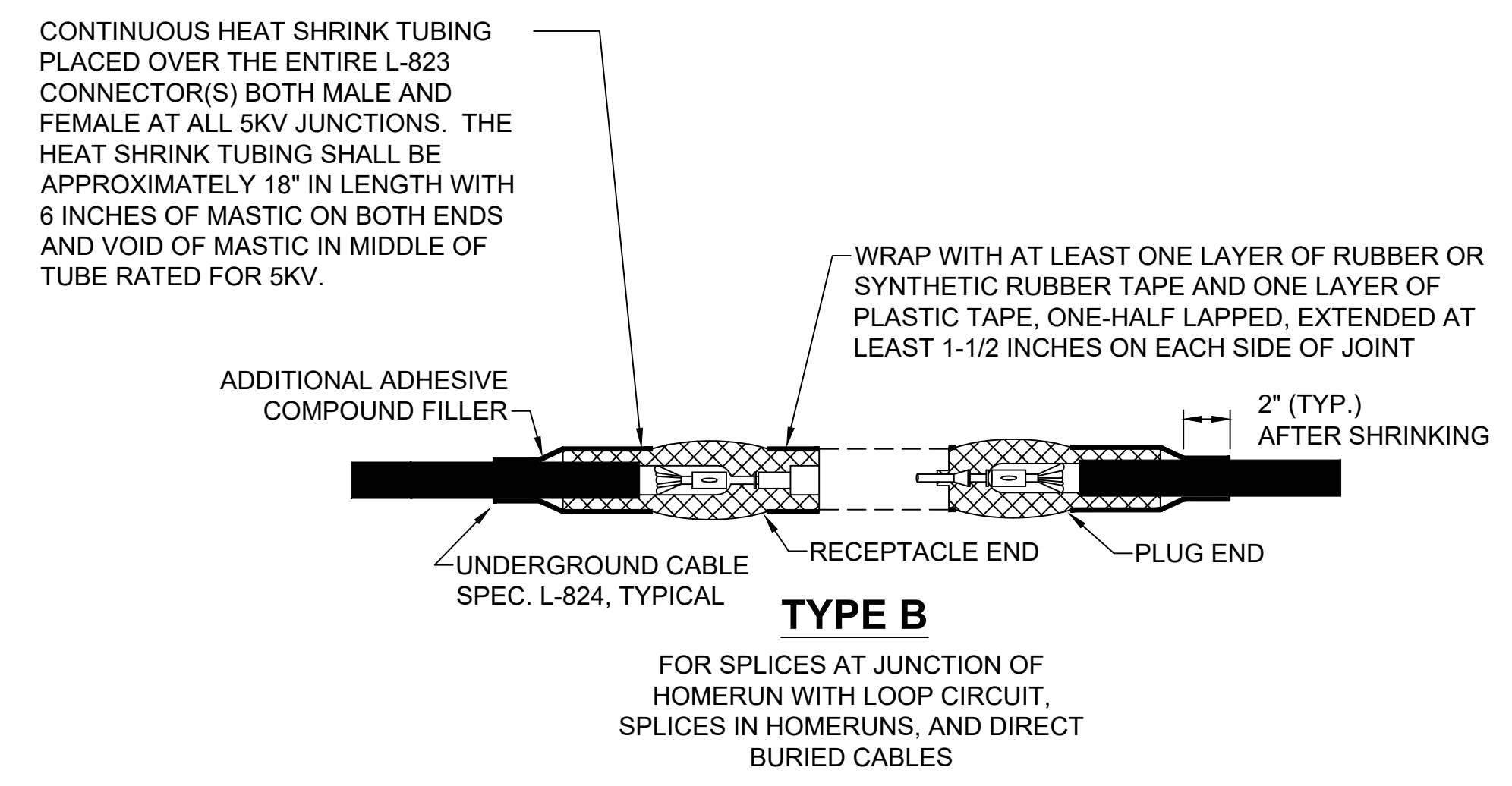
CABLE TRENCHES
(NOT TO SCALE)

- NOTES:**
1. DETAIL NUMBERS INDICATE NO. OF CABLES.
 2. TRENCHES WITH MORE THAN THREE CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE; IF SPECIFIED ON PLANS TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
 3. DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS. MINIMUM COVER REQUIREMENTS FOR CABLES AND DUCTS AT AIRPORT RUNWAYS OR ADJACENT AREAS WHERE TRESPASSING IS PROHIBITED IS 18 INCHES PER NEC 300.5 AND 300.50. COVER IS DEFINED AS THE SHORTEST DISTANCE IN INCHES MEASURED BETWEEN A POINT ON THE TOP SURFACE OF ANY DIRECT-BURIED CONDUCTOR, CABLE, CONDUIT, OR OTHER RACEWAY AND THE TOP SURFACE OF FINISHED GRADE, CONCRETE, OR SIMILAR COVER.
 4. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.
 5. INSTALL AN APPROVED DETECTABLE, MAGNETIC, 6" WIDE TAPE 12" BELOW FINISHED GRADE ABOVE ALL PORTIONS OF DUCTS. TAPE SHALL BE RED WITH "CAUTION BURIED ELECTRICAL LINE BELOW".



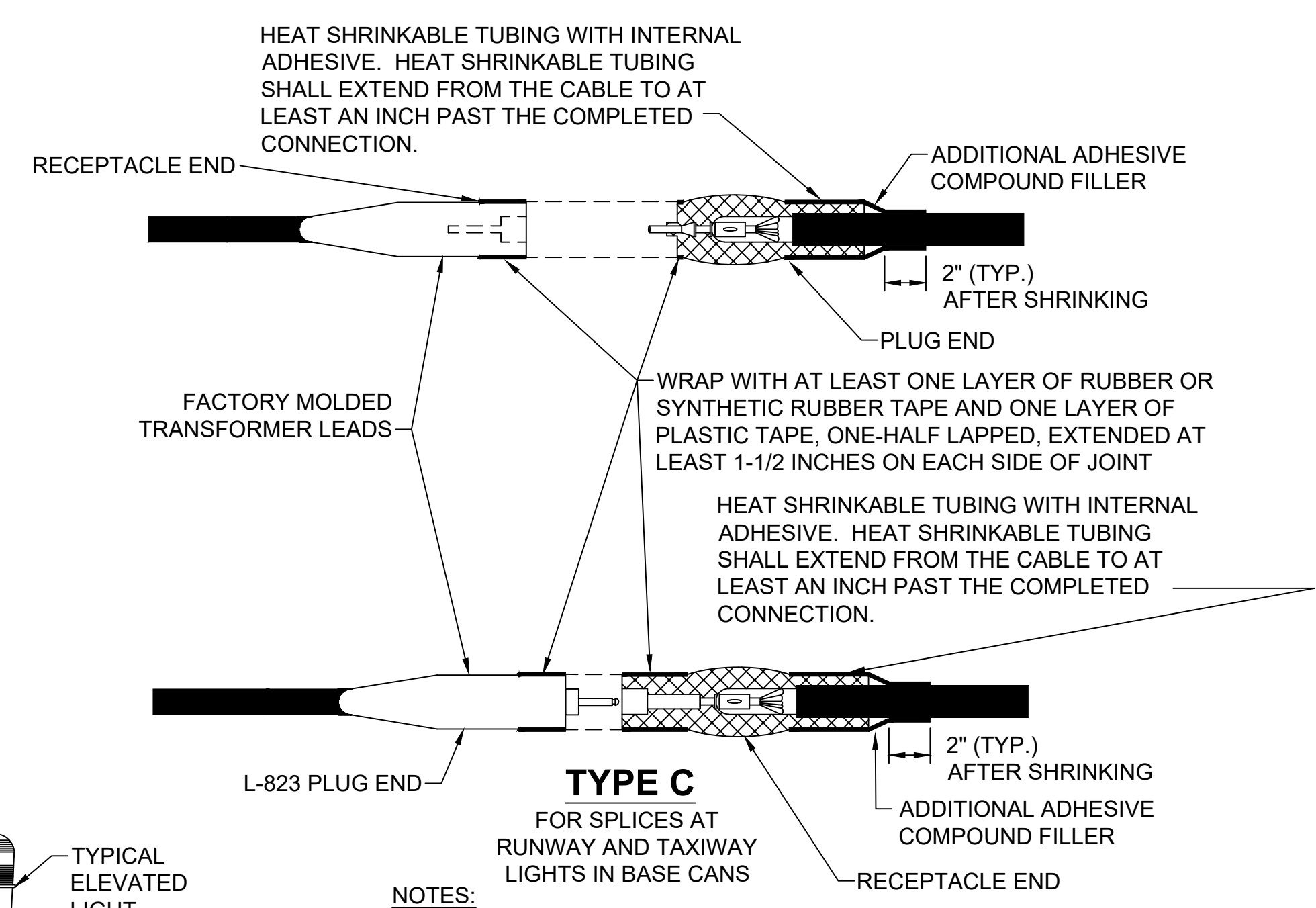
TAG DETAIL
(NOT TO SCALE)

NOTE:
AFFIX NON-CORROSIVE TAG TO FIXTURE FACING RUNWAY WITH SET SCREW, WIRE TIE, OR METAL BAND. NUMERALS SHALL BE ENGRAVED FOR PERMANENT READABILITY.



TYPE B

FOR SPLICES AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT, SPLICES IN HOMERUNS, AND DIRECT BURIED CABLES



TYPE C

FOR SPLICES AT RUNWAY AND TAXIWAY LIGHTS IN BASE CANS

NOTES:
SEE PROPOSED LIGHTING LAYOUT SHEET(S) FOR SPLICE TYPE.

INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.

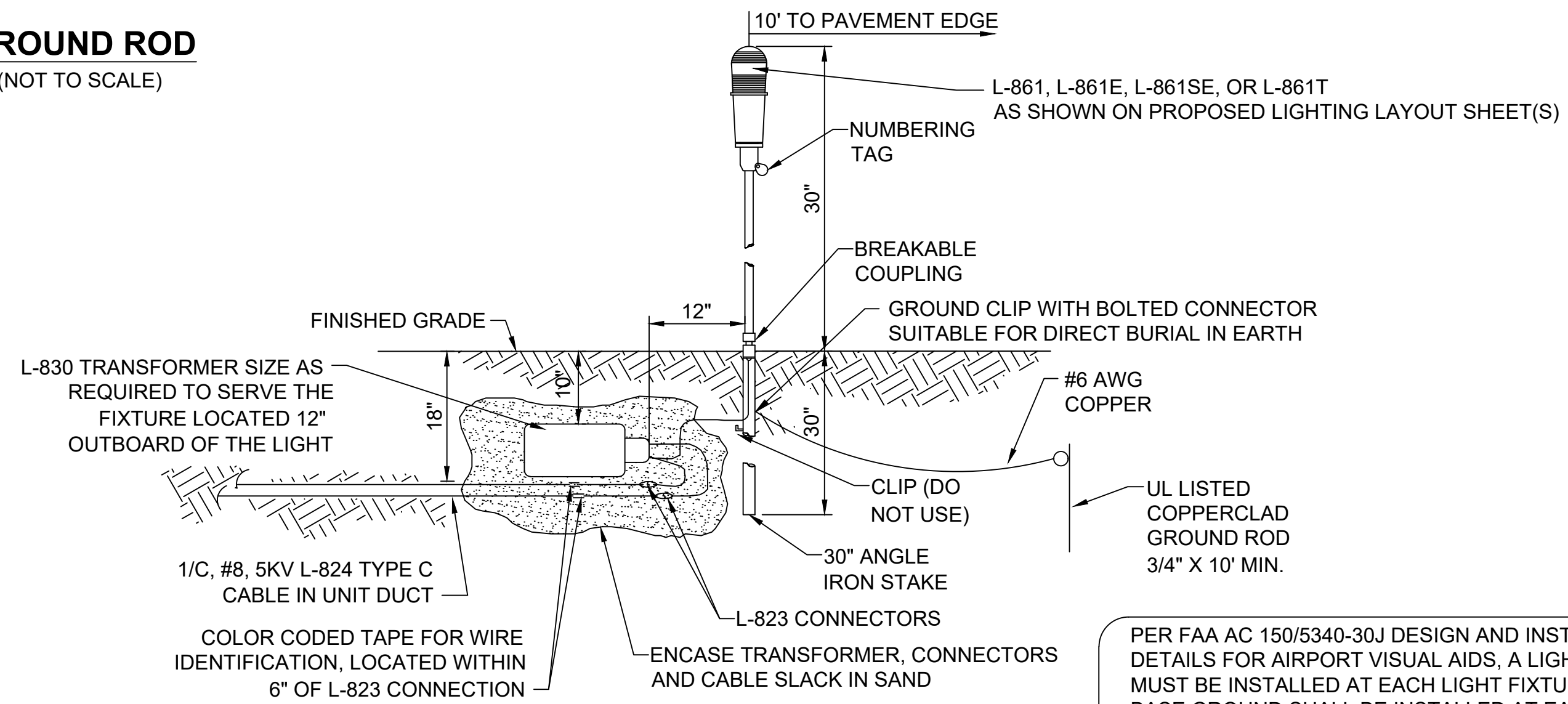
CABLE SPLICES
(NOT TO SCALE)

NOTES:
TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.

THE RESISTANCE TO GROUND OF THE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.

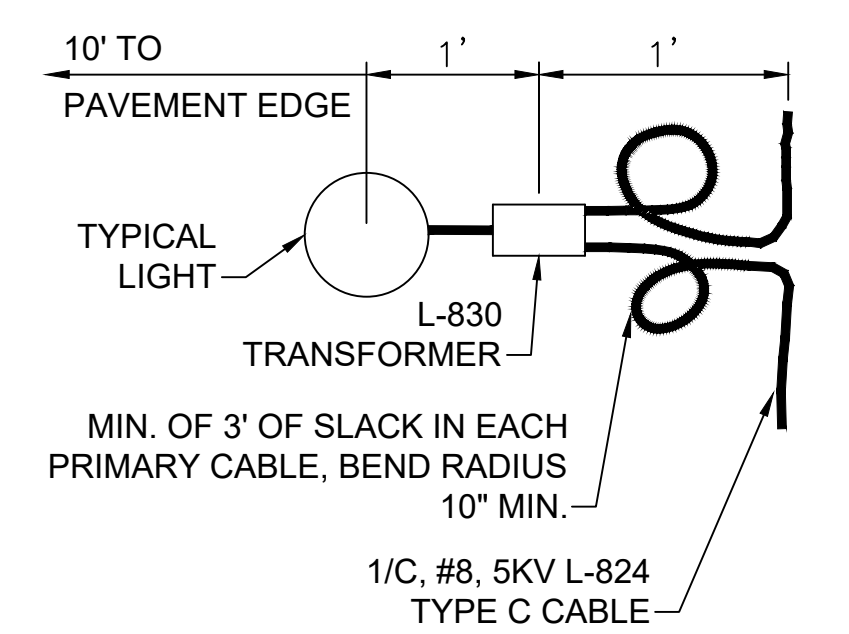
COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.

GROUND ROD
(NOT TO SCALE)

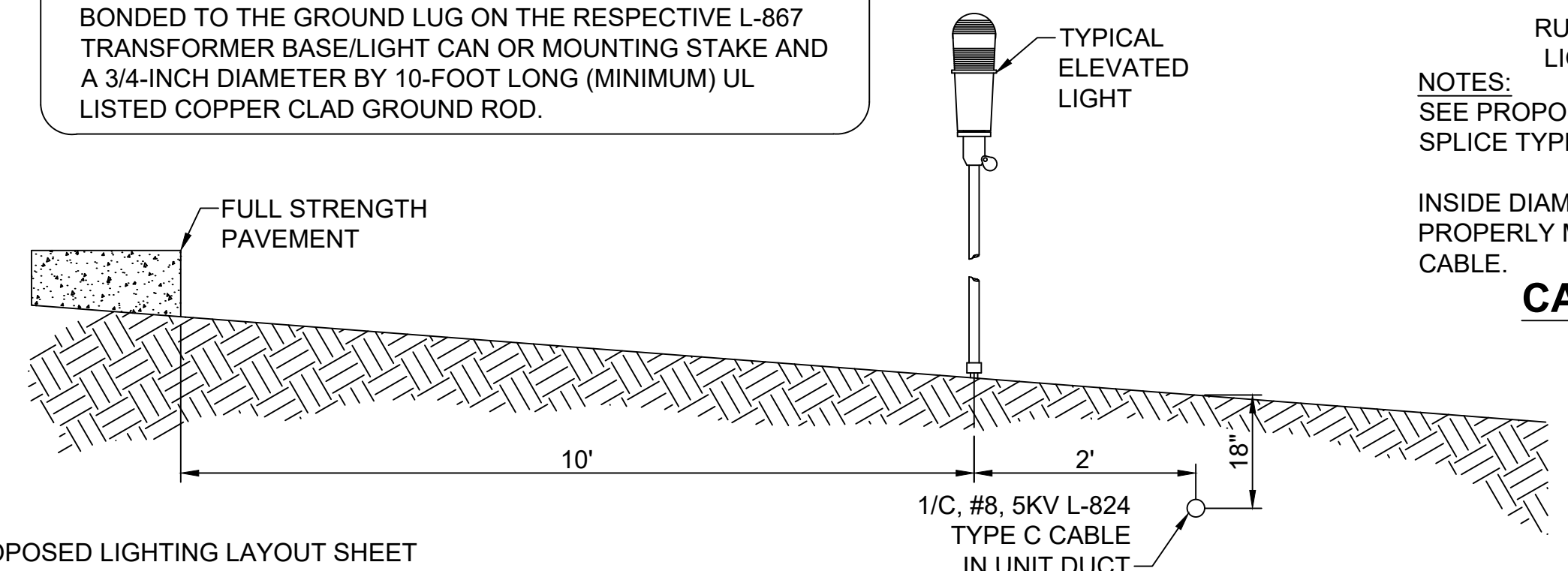


MEDIUM INTENSITY LIGHT - STAKE MOUNTED
(NOT TO SCALE)

PER FAA AC 150/5340-30J DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, A LIGHT BASE GROUND MUST BE INSTALLED AT EACH LIGHT FIXTURE. A LIGHT BASE GROUND SHALL BE INSTALLED AT EACH STAKE MOUNTED LIGHT AND EACH TRANSFORMER BASE/LIGHT CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS. THE LIGHT BASE GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR BONDED TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE AND A 3/4-INCH DIAMETER BY 10-FOOT LONG (MINIMUM) UL LISTED COPPER CLAD GROUND ROD.



PLAN VIEW



PROFILE VIEW

LIGHT AND CABLE INSTALLATION DETAIL
(NOT TO SCALE)

NOTES:
SEE PROPOSED LIGHTING LAYOUT SHEET FOR LIGHT LOCATIONS.

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date	MARCH 22, 2018	detailed	A. CHAMBERLAIN
designed	J. YAHYA	checked	B. QUINLAN

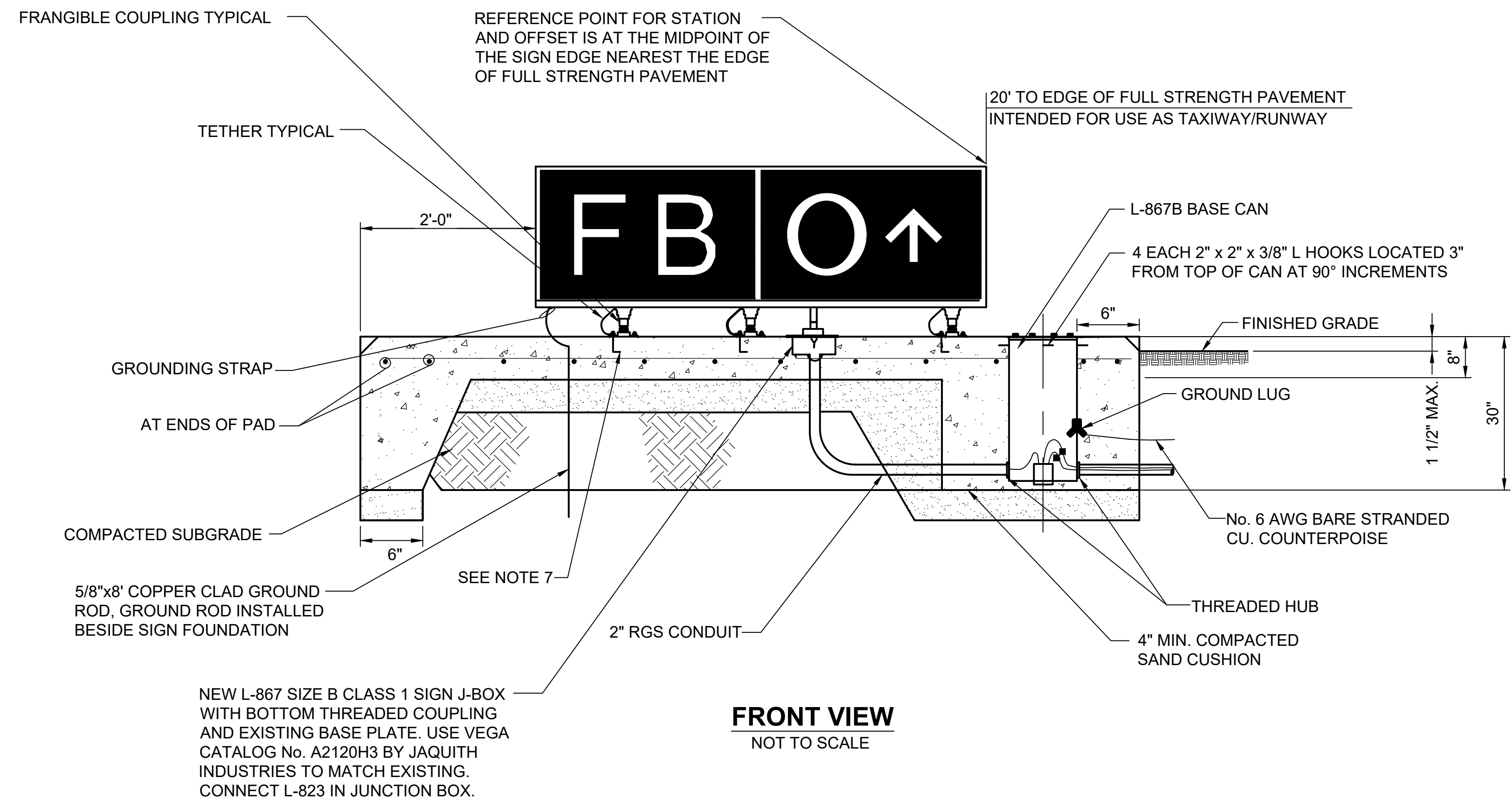


RECONSTRUCT AND REALIGN TAXIWAY E
ELECTRICAL DETAILS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
EA-112 - 0	
sheet 32	of 38 sheets
file 95601_EA-112 ELECTRICAL DETAILS	

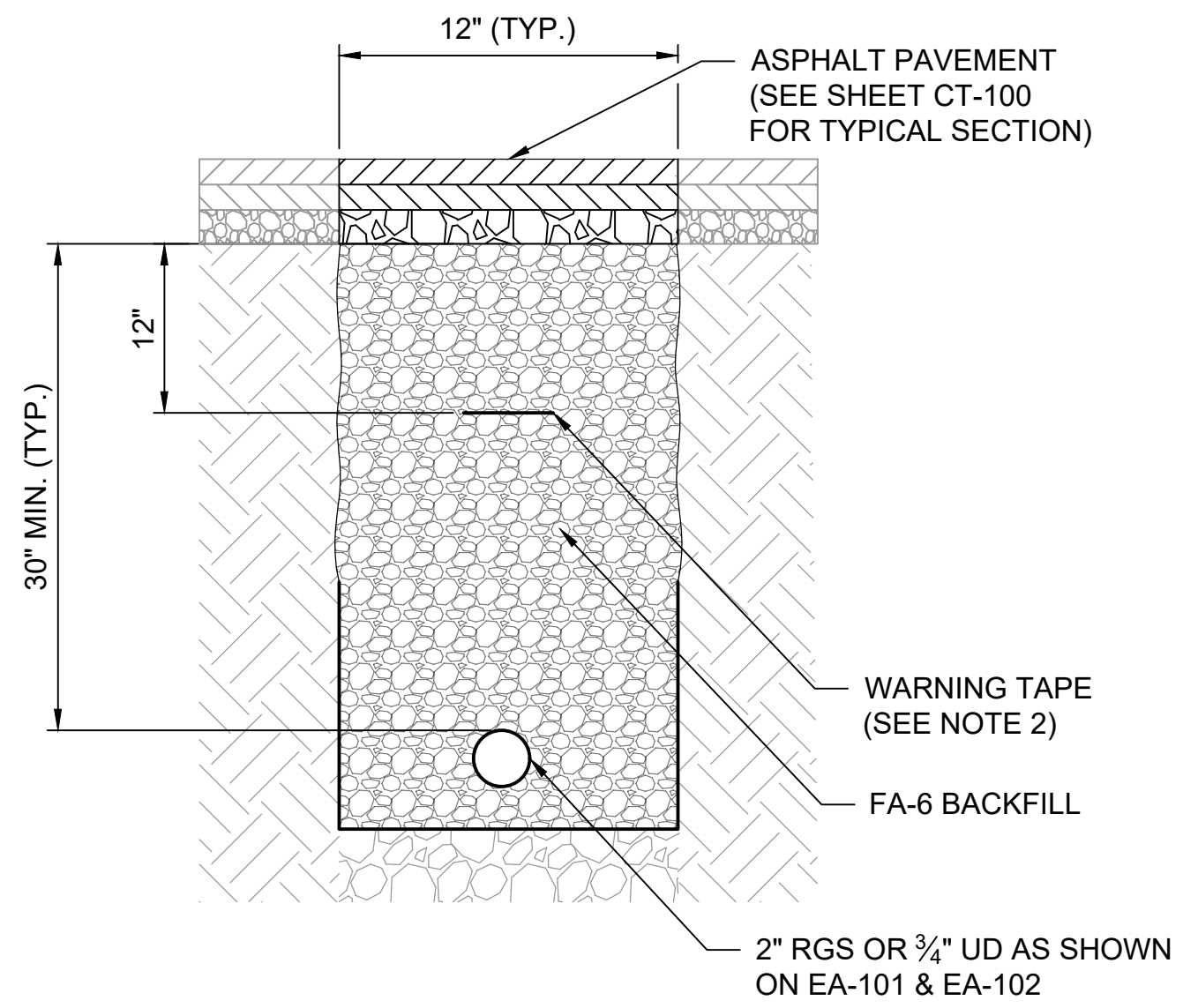
Scale For Microfining
Millimeters
Inches

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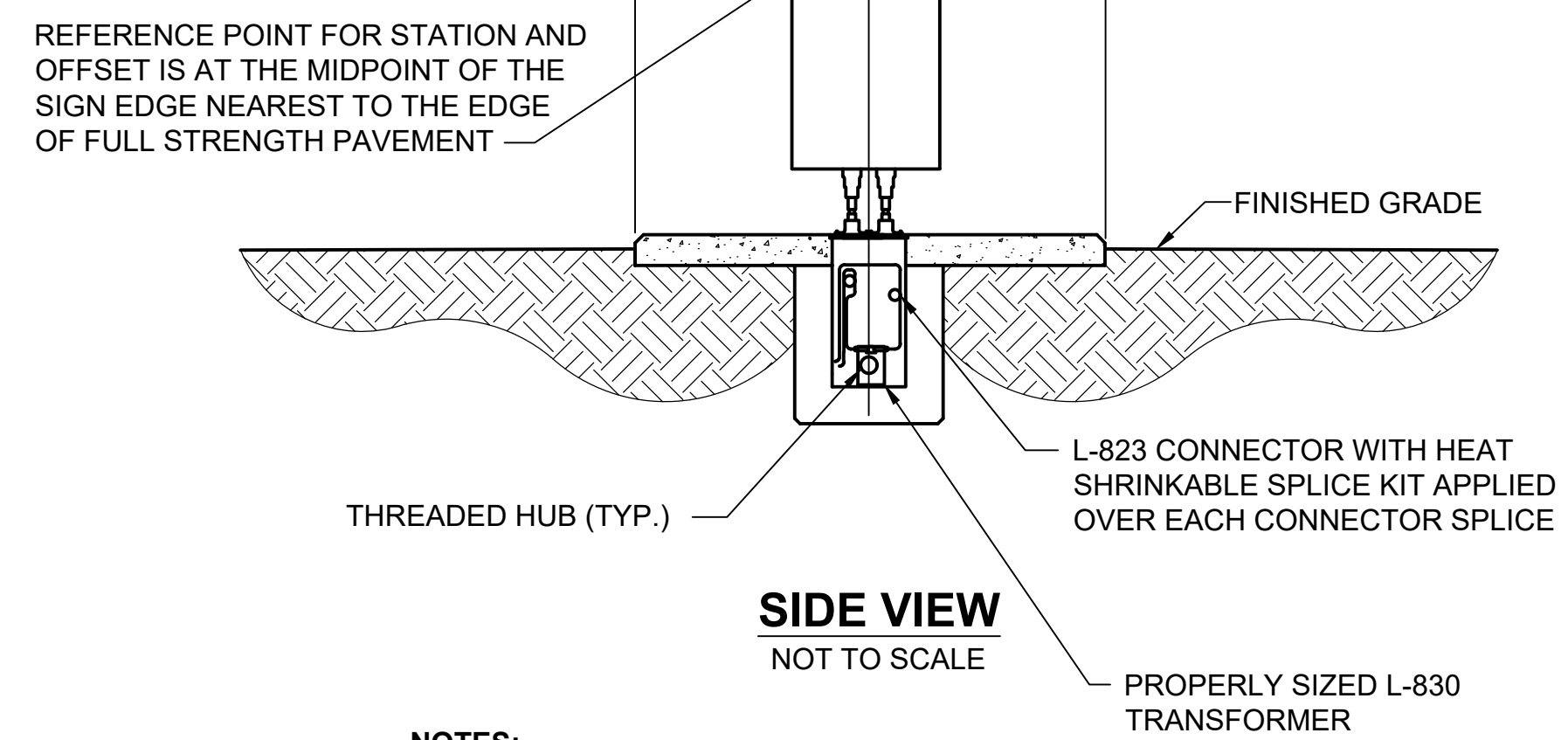
NEW L-867 SIZE B CLASS 1 SIGN J-BOX WITH BOTTOM THREADED COUPLING AND EXISTING BASE PLATE. USE VEGA CATALOG No. A2120H3 BY JAQUITH INDUSTRIES TO MATCH EXISTING. CONNECT L-823 IN JUNCTION BOX.

TYPICAL TAXIWAY GUIDANCE SIGN DETAIL



NOTES:

1. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.
2. INSTALL AN APPROVED DETECTABLE, MAGNETIC, 6" WIDE TAPE 12" BELOW FINISHED GRADE ABOVE ALL PORTIONS OF DUCTS. TAPE SHALL BE RED WITH "CAUTION BURIED ELECTRICAL LINE BELOW".



NOTES:

1. ALL NEW MATERIALS, BASE DETAILS ETC SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
2. CONCRETE FOR SIGN BASE SHALL CONFORM TO SPECIFICATION AR610000.
3. REINFORCEMENT FOR SIGN BASE SHALL BE #4 TYPE ASTM GRADE 60. REINFORCEMENT SHALL HAVE A MINIMUM 2" COVER.
4. THE SIGN'S BOLTING PATTERN AND ANCHORING METHOD SHALL MATCH EXISTING SIGNS.
5. ALL CONDUITS SHALL BE PVC 2" DIAMETER SCHEDULE 40 UNLESS OTHERWISE NOTED.
6. THE CONCRETE BASE SHALL EXTEND 2'-0" MINIMUM BEYOND EACH SIDE OF THE SIGN. THE EDGE OF THE CONCRETE BASE SHALL EXTEND 20" BEYOND THE CENTERLINE OF THE L-867B BASE CAN. CONCRETE BASE SHALL BE INSTALLED LEVEL.
7. CONTRACTOR SHALL PROVIDE NEW ANCHOR BOLTS AS RECOMMENDED BY THE SIGN MANUFACTURER, BUT NO LESS THAN 4" LONG AND 1/2" DIAMETER.
8. CONTRACTOR SHALL INSTALL NEW L-830 ISOLATION TRANSFORMER AND WIRING.
9. SEE EA-110 FOR SIGN SCHEDULE.

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designed	J. YAHYA	checked	B. QUINLAN

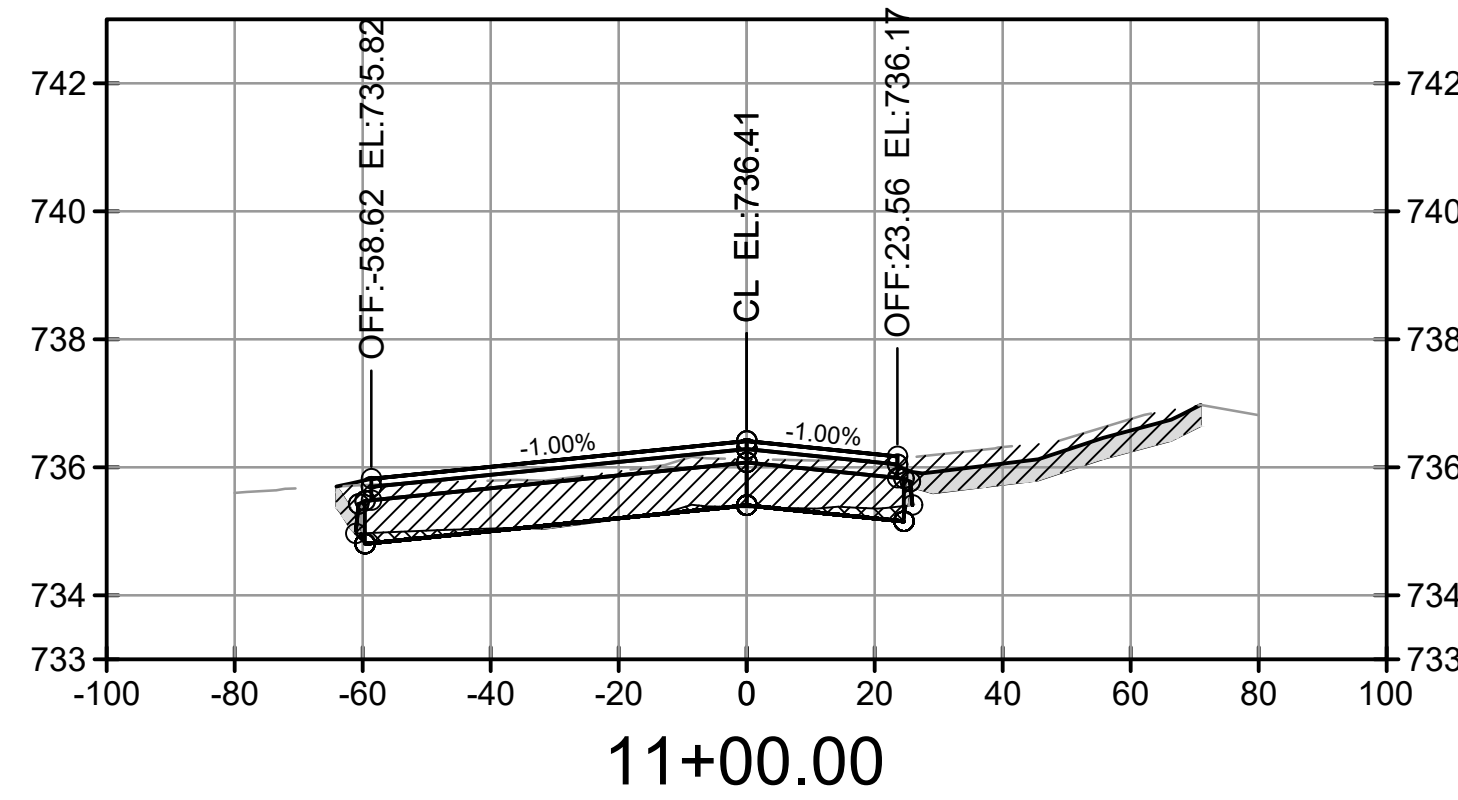


**RECONSTRUCT AND REALIGN TAXIWAY E
ELECTRICAL DETAILS**

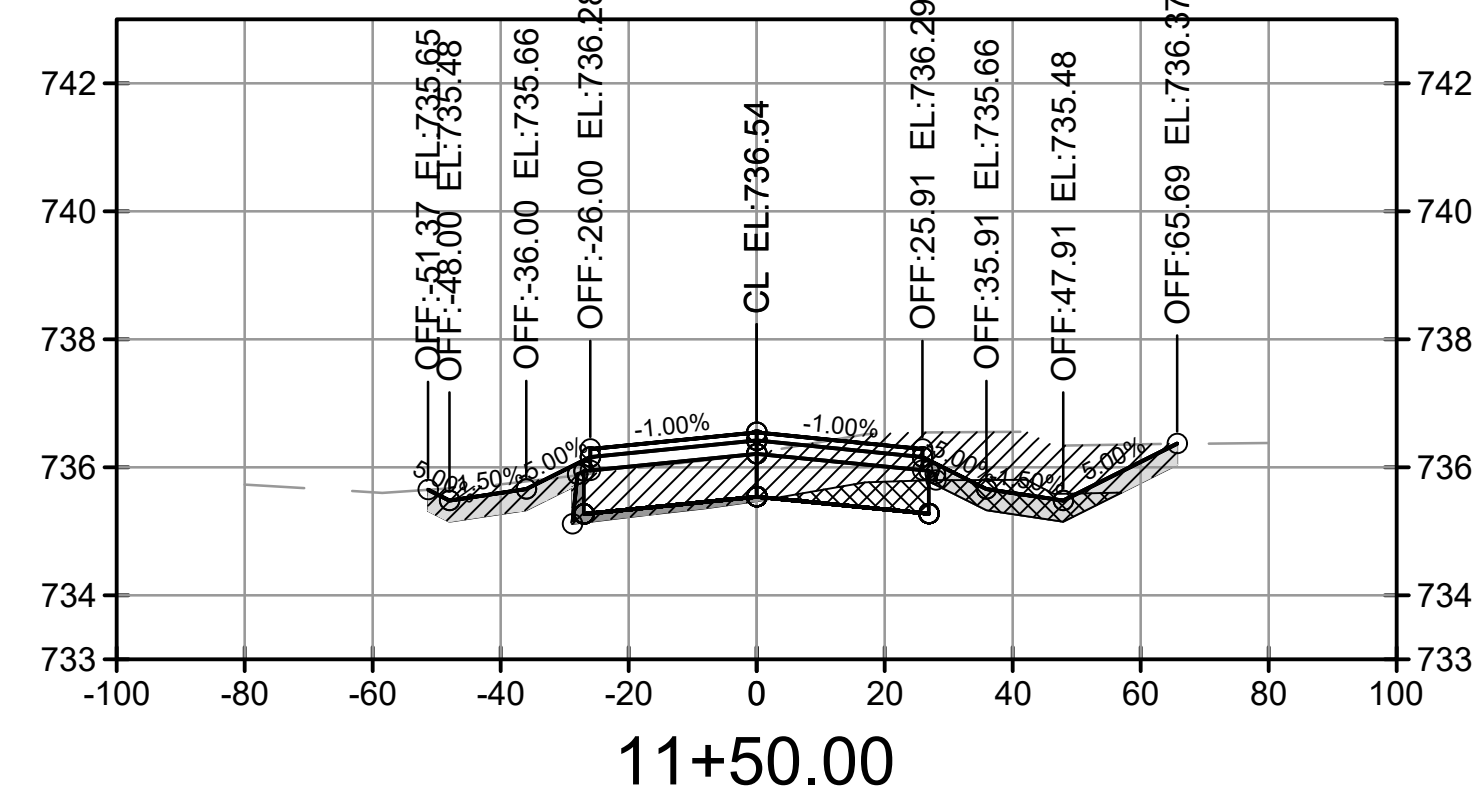
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BMCD Proj. No. 95601	RA016
drawing	rev.
EA-113	0
sheet 33 of 38 sheets	file 95601_EA-113 ELECTRICAL DETAILS

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 Millimeters
 Inches
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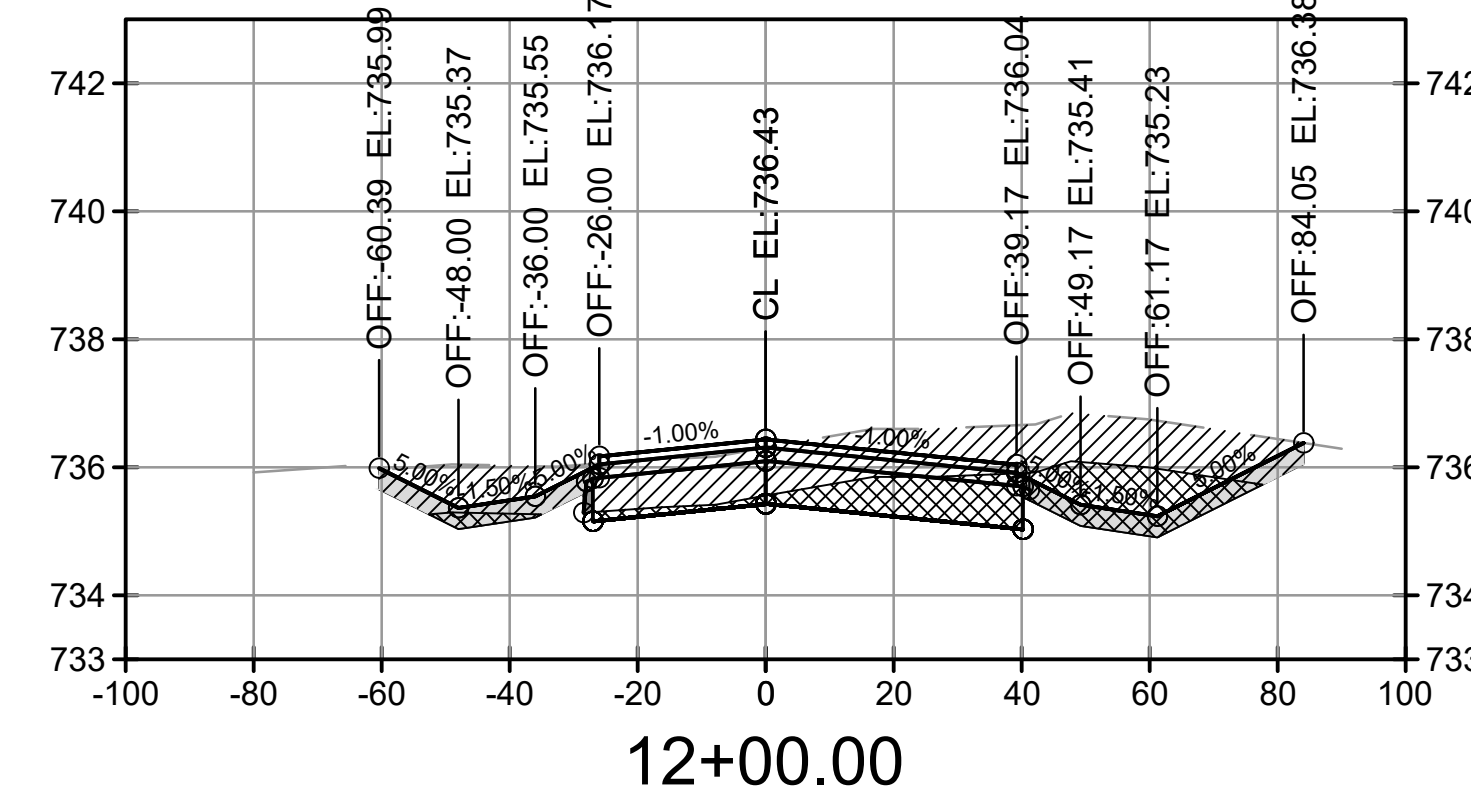
no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



MATERIAL(S) AT STATION 11+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	1.59	0	0
CLAY CUT	5.12	0	0
TS CUT (TO SUBGRADE)	89.99	0	0
TS CUT (UNDER PVMT)	0.47	0	0
TS FILL (SHOULDER)	16.26	0	0
TS FILL (ADJ PVMT)	0.00	0	0



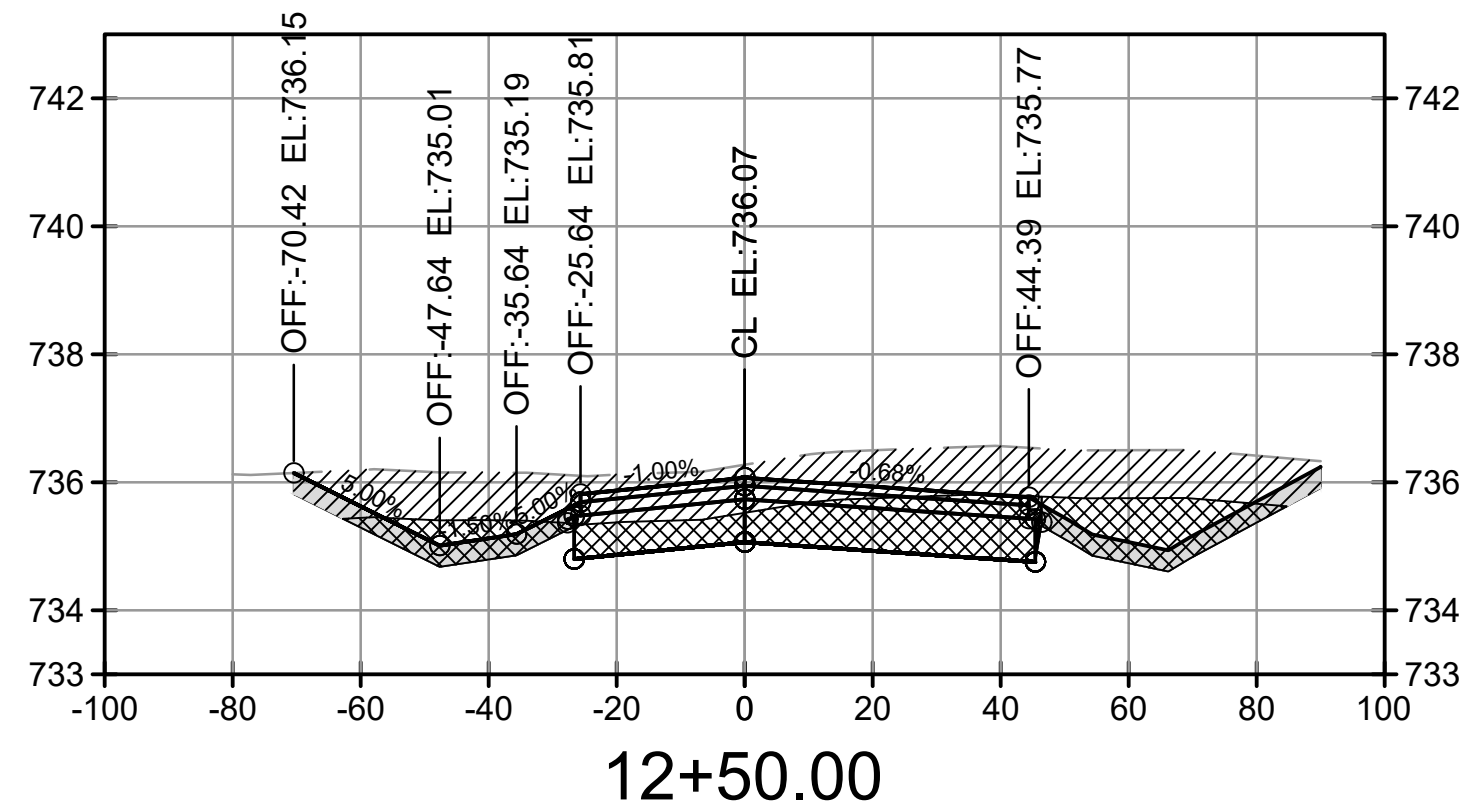
MATERIAL(S) AT STATION 11+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	4.16	5	5
CLAY CUT	17.53	21	21
TS CUT (TO SUBGRADE)	74.39	152	152
TS CUT (UNDER PVMT)	4.06	4	4
TS FILL (SHOULDER)	20.84	34	34
TS FILL (ADJ PVMT)	0.20	0	0



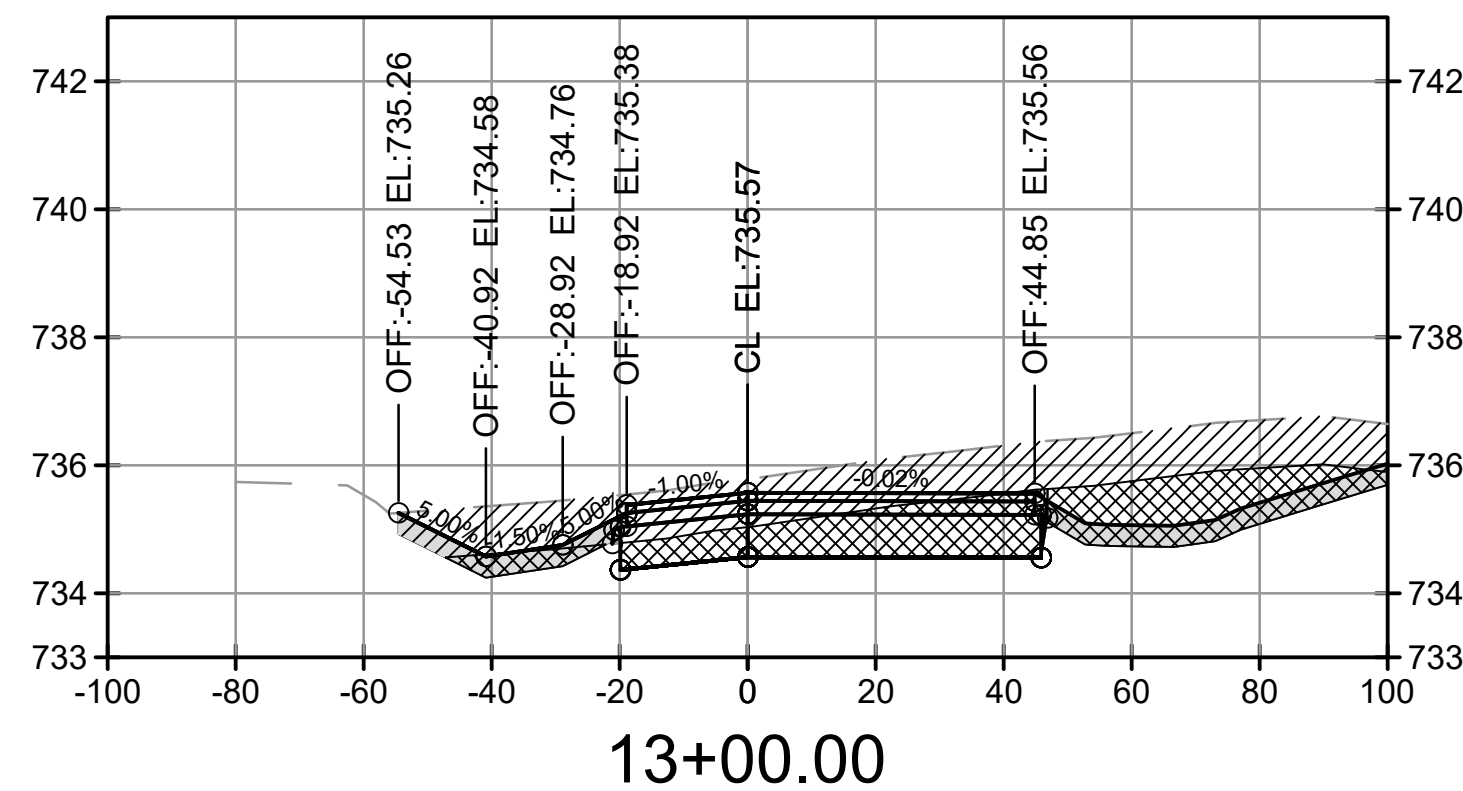
MATERIAL(S) AT STATION 12+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.62	4	10
CLAY CUT	55.89	68	89
TS CUT (TO SUBGRADE)	103.71	165	317
TS CUT (UNDER PVMT)	0.51	4	8
TS FILL (SHOULDER)	25.50	43	77
TS FILL (ADJ PVMT)	0.06	0	0

Scale For Microfining
Millimeters

Inches



MATERIAL(S) AT STATION 12+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.09	1	11
CLAY CUT	95.25	102	191
TS CUT (TO SUBGRADE)	117.84	180	497
TS CUT (UNDER PVMT)	0.00	1	9
TS FILL (SHOULDER)	29.38	44	121
TS FILL (ADJ PVMT)	0.00	0	0



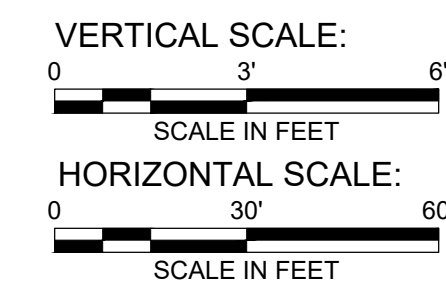
MATERIAL(S) AT STATION 13+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.25	0	11
CLAY CUT	95.11	89	280
TS CUT (TO SUBGRADE)	114.26	154	651
TS CUT (UNDER PVMT)	0.08	0	9
TS FILL (SHOULDER)	29.15	36	157
TS FILL (ADJ PVMT)	0.00	0	0

NOTES:

- THE EXISTING TOPSOIL DEPTH VARIES WITHIN THE LIMITS OF WORK. THE CONTRACTOR WILL BE REQUIRED TO STRIP 9" OF TOPSOIL FROM ADJACENT TO AND UNDERNEATH THE PAVEMENT SECTION AS SHOWN ON SHEET CT-100. BEYOND THE LIMITS OF PAVEMENT, TOPSOIL STRIPPING DEPTH WILL BE DRIVEN BY THE DEPTH OF SUBGRADE.
- IN CUT AREAS, THE CONTRACTOR WILL BE REQUIRED STRIP THE TOP 9" OF TOPSOIL, LIME STABILIZE THE UNDERLYING CLAY, AND THEN PLACE THE TAXIWAY PAVEMENT SECTION.
- IN FILL AREAS, THE CONTRACTOR WILL BE REQUIRED TO STRIP THE TOP 9" OF TOPSOIL, LIME STABILIZE THE UNDERLYING CLAY, PLACE SUITABLE MATERIAL EXCAVATED FROM THE CUT SECTIONS, AND THEN PLACE THE TAXIWAY PAVEMENT SECTION.
- EXCESS MATERIAL GENERATED FROM EARTHWORK OPERATIONS WILL BE RE-USED ONSITE TO RESTORE AREAS OF PAVEMENT DEMOLITION TO EXISTING GRADES.

LEGEND:

- TOPSOIL CUT
- CLAY CUT
- TOPSOIL FILL
- CLAY FILL



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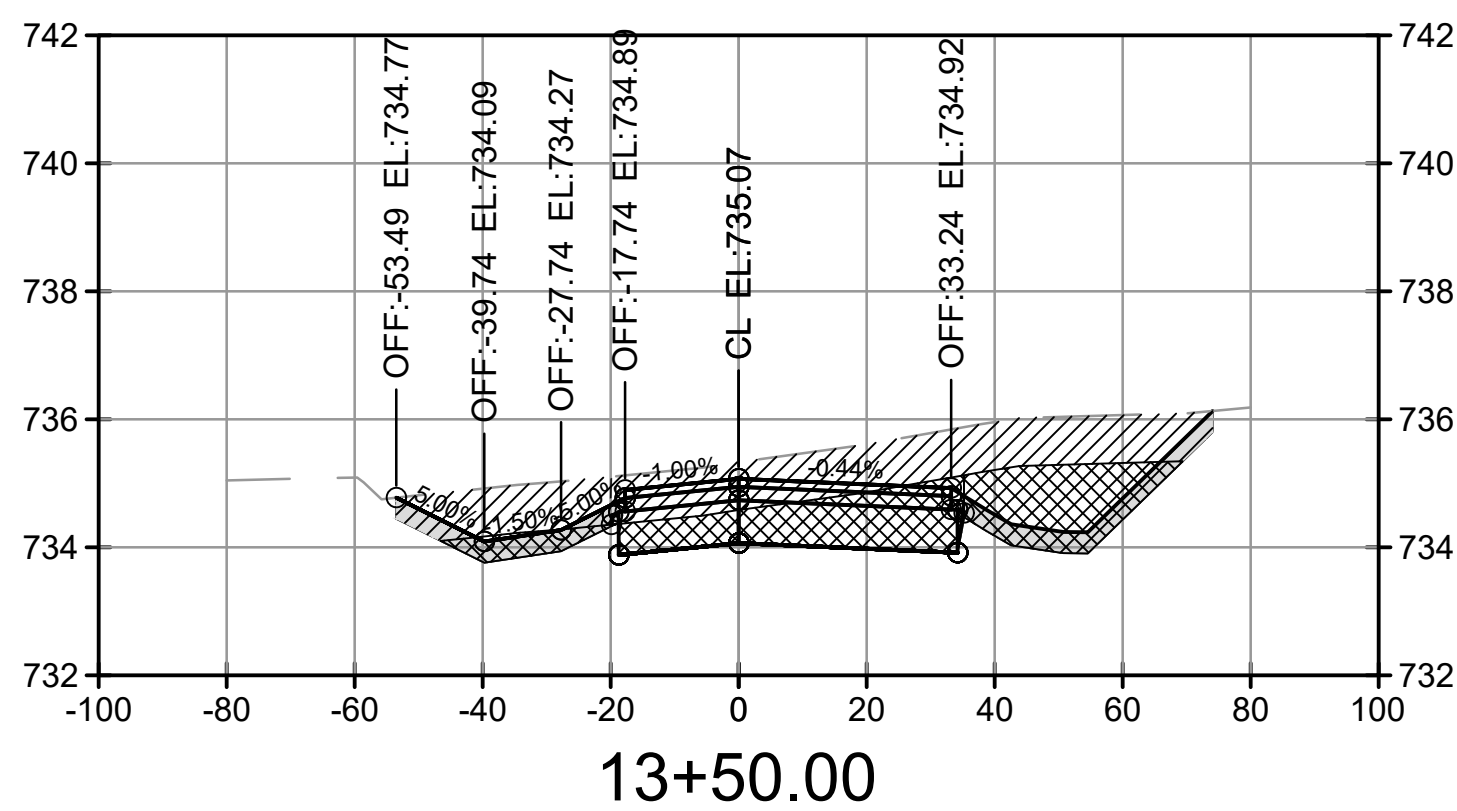
date	MARCH 23, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



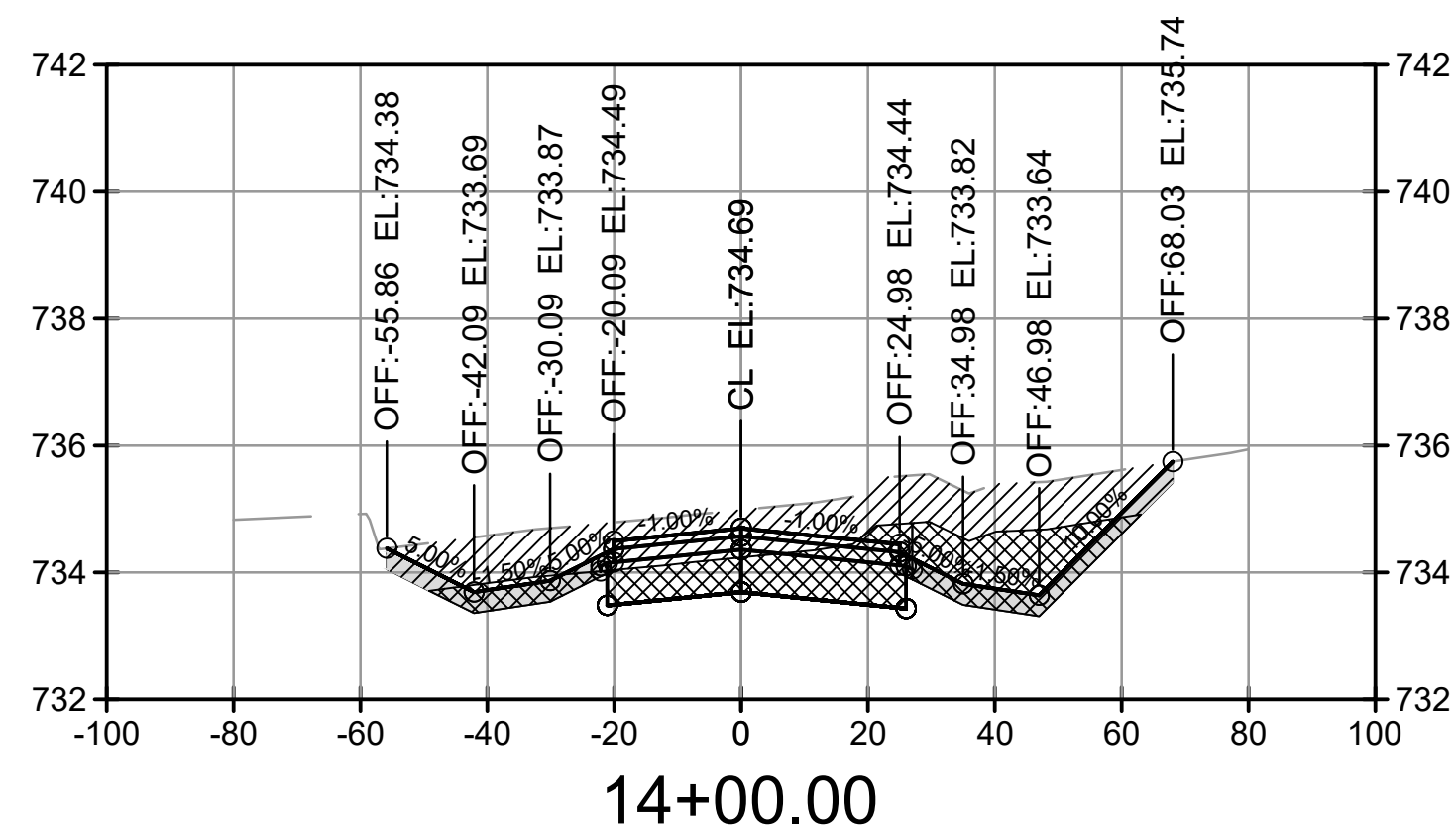
RECONSTRUCT AND REALIGN TAXIWAY E CROSS SECTIONS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
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CX-101 - 0	
sheet 34	of 38 sheets
file 95601_CX-101_CROSS SECTIONS	

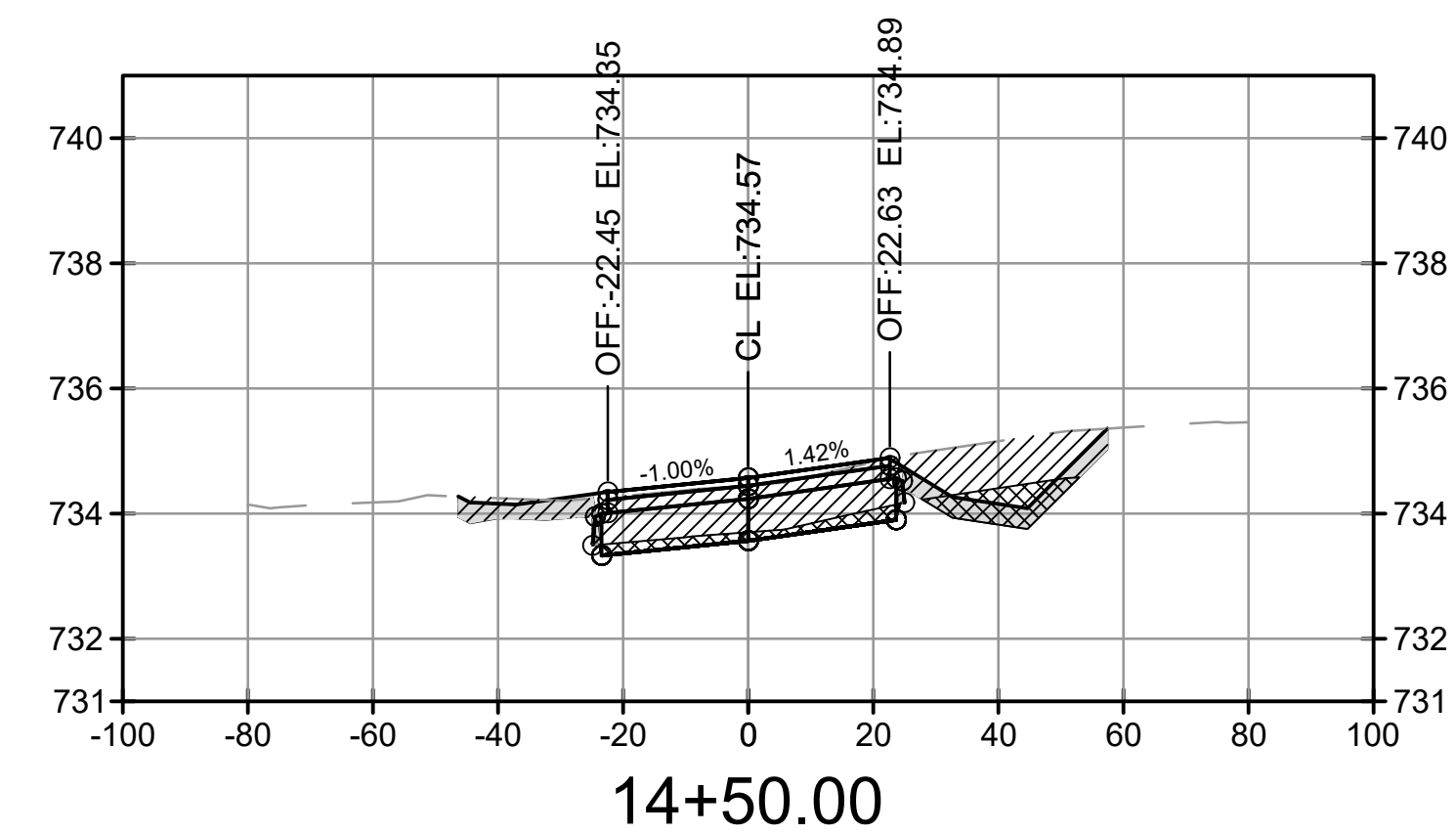
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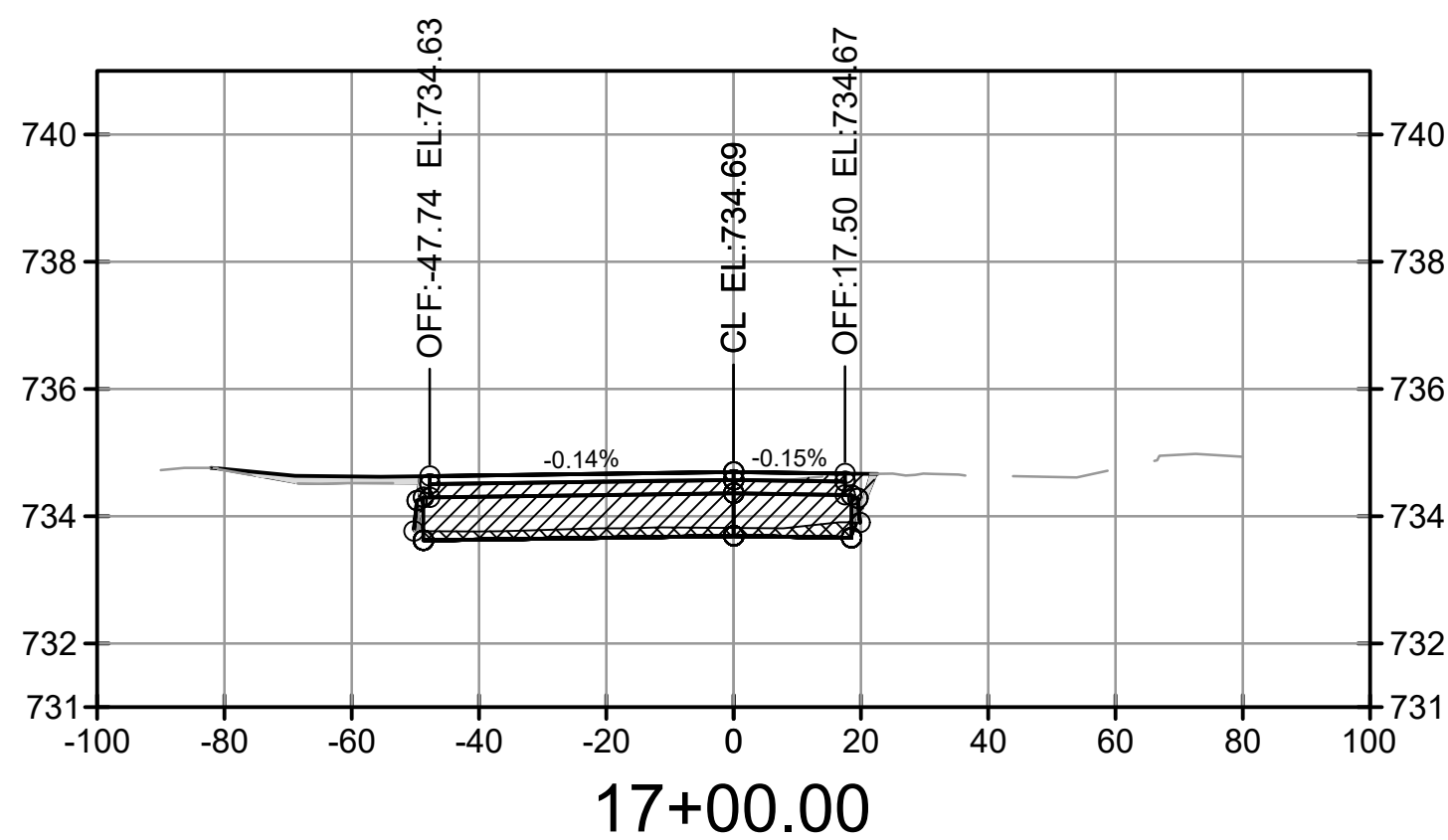
MATERIAL(S) AT STATION 13+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.17	0	11
CLAY CUT	79.47	141	421
TS CUT (TO SUBGRADE)	93.23	178	830
TS CUT (UNDER PVMT)	0.01	0	9
TS FILL (SHOULDER)	24.45	45	202
TS FILL (ADJ PVMT)	0.00	0	0



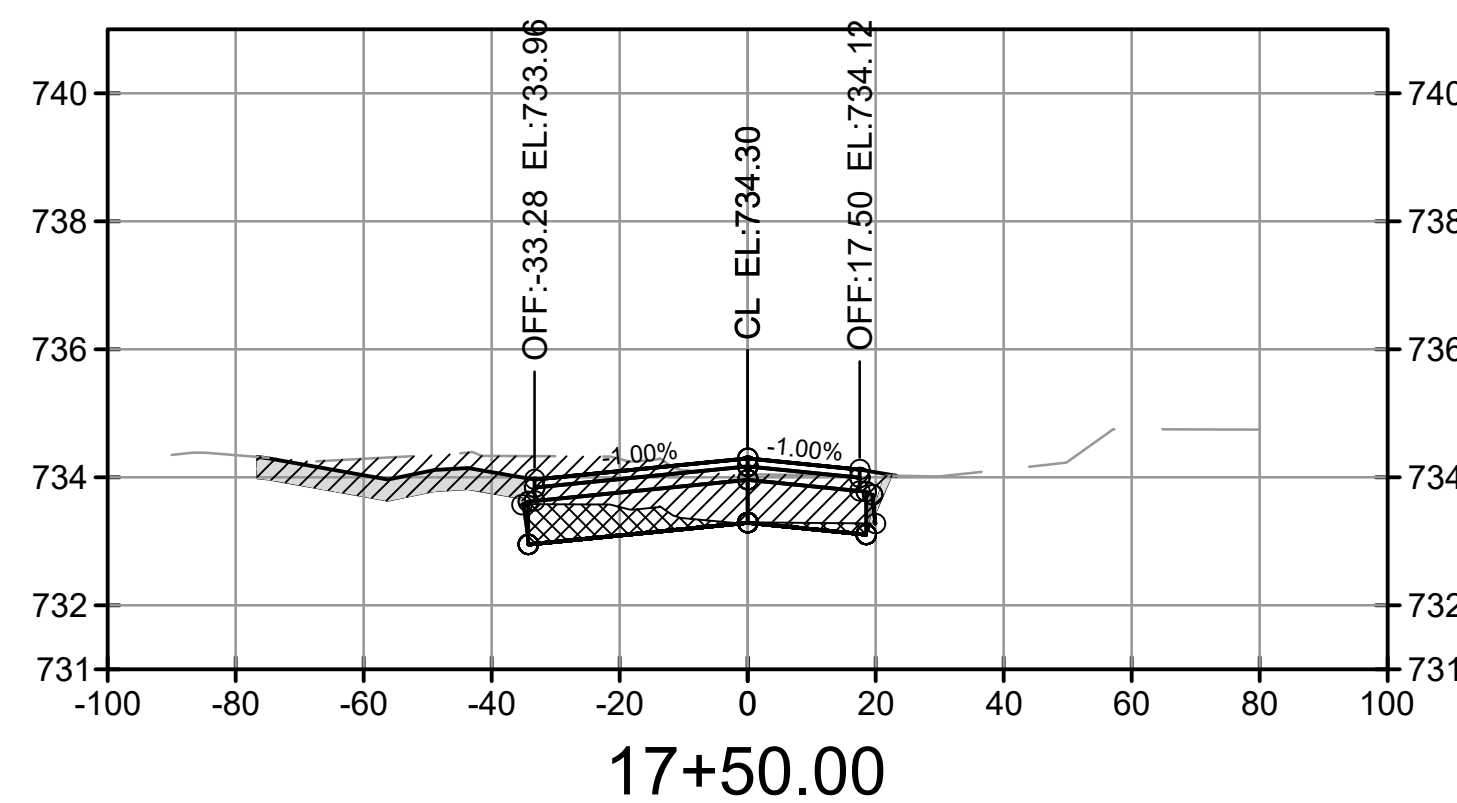
MATERIAL(S) AT STATION 14+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.10	0	12
CLAY CUT	77.68	146	566
TS CUT (TO SUBGRADE)	90.46	170	1000
TS CUT (UNDER PVMT)	0.00	0	9
TS FILL (SHOULDER)	25.39	46	249
TS FILL (ADJ PVMT)	0.00	0	0



MATERIAL(S) AT STATION 14+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	1.03	1	13
CLAY CUT	18.03	89	655
TS CUT (TO SUBGRADE)	67.10	146	1146
TS CUT (UNDER PVMT)	0.27	0	9
TS FILL (SHOULDER)	17.47	40	288
TS FILL (ADJ PVMT)	0.09	0	1



MATERIAL(S) AT STATION 17+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	1.09	10	23
CLAY CUT	10.03	130	785
TS CUT (TO SUBGRADE)	52.68	555	1700
TS CUT (UNDER PVMT)	0.00	1	11
TS FILL (SHOULDER)	0.66	84	372
TS FILL (ADJ PVMT)	2.83	14	14



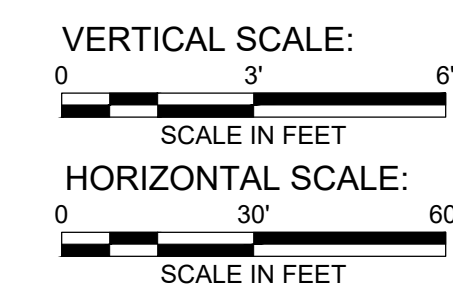
MATERIAL(S) AT STATION 17+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.62	2	24
CLAY CUT	14.03	22	807
TS CUT (TO SUBGRADE)	64.07	108	1808
TS CUT (UNDER PVMT)	0.03	0	11
TS FILL (SHOULDER)	14.31	14	386
TS FILL (ADJ PVMT)	0.01	3	17

NOTES:

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2. IN CUT AREAS, THE CONTRACTOR WILL BE REQUIRED TO STRIP THE TOP 9" OF TOPSOIL, LIME STABILIZE THE UNDERLYING CLAY, AND THEN PLACE THE TAXIWAY PAVEMENT SECTION.
3. IN FILL AREAS, THE CONTRACTOR WILL BE REQUIRED TO STRIP THE TOP 9" OF TOPSOIL, LIME STABILIZE THE UNDERLYING CLAY, PLACE SUITABLE MATERIAL EXCAVATED FROM THE CUT SECTIONS, AND THEN PLACE THE TAXIWAY PAVEMENT SECTION.
4. EXCESS MATERIAL GENERATED FROM EARTHWORK OPERATIONS WILL BE RE-USED ONSITE TO RESTORE AREAS OF PAVEMENT DEMOLITION TO EXISTING GRADES.

LEGEND:

- TOPSOIL CUT
- CLAY CUT
- TOPSOIL FILL
- CLAY FILL



no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 23, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

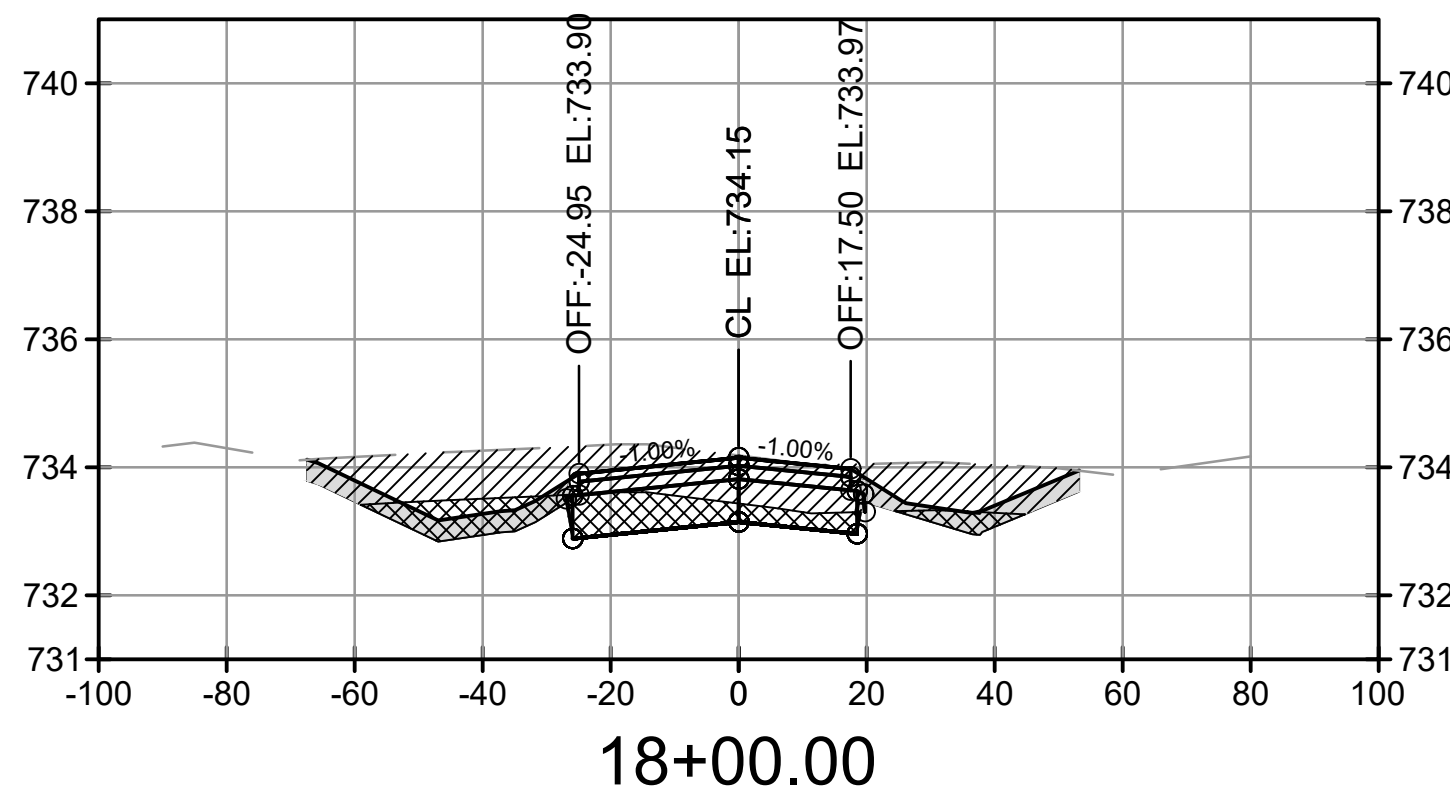


RECONSTRUCT AND REALIGN TAXIWAY E CROSS SECTIONS

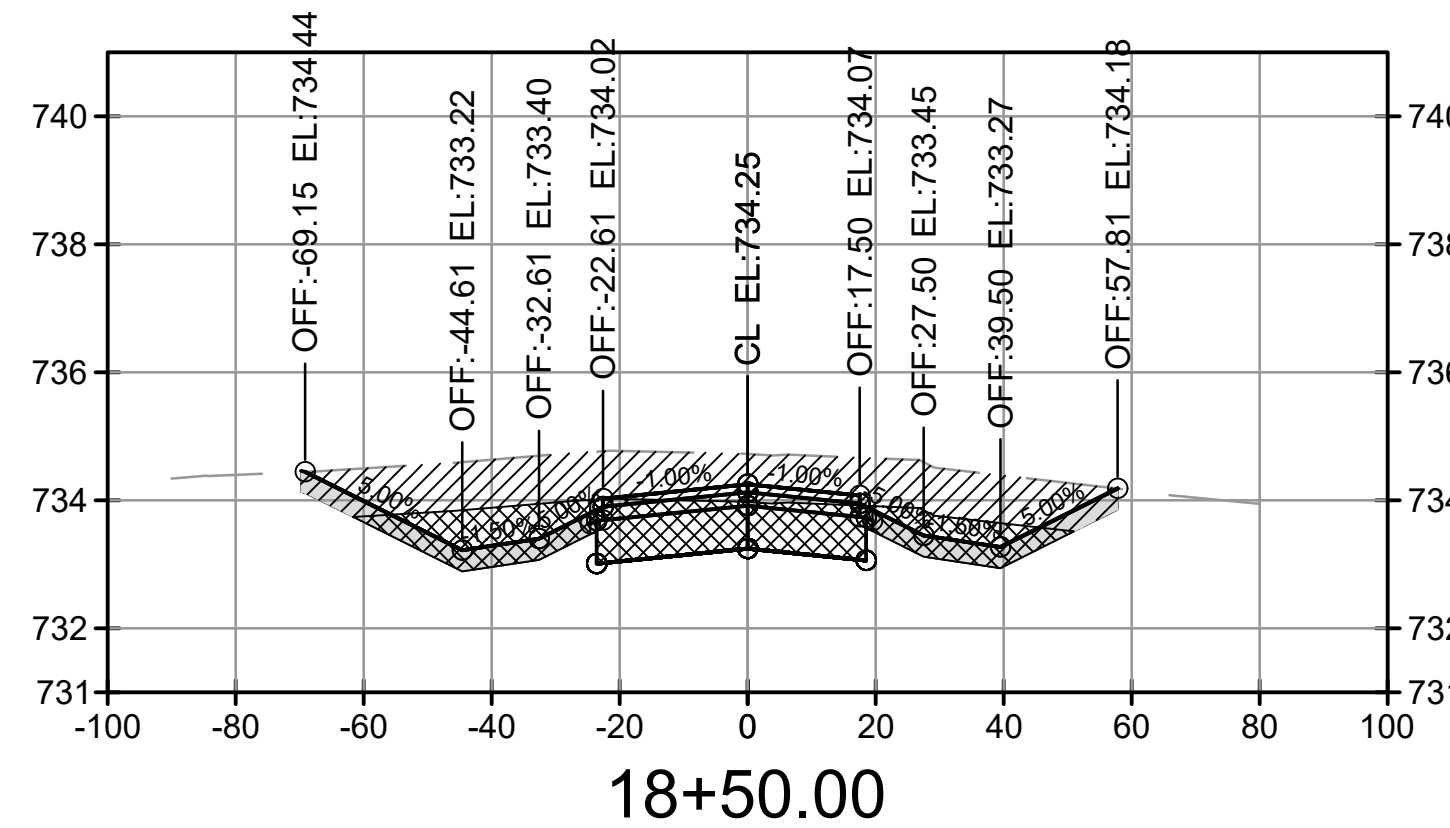
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BMCD Proj. No. 95601	RA016
drawing	rev.
CX-102 - 0	
sheet 35	of 38 sheets
file 95601_CX-102_CROSS SECTIONS	

Scale For Microfining

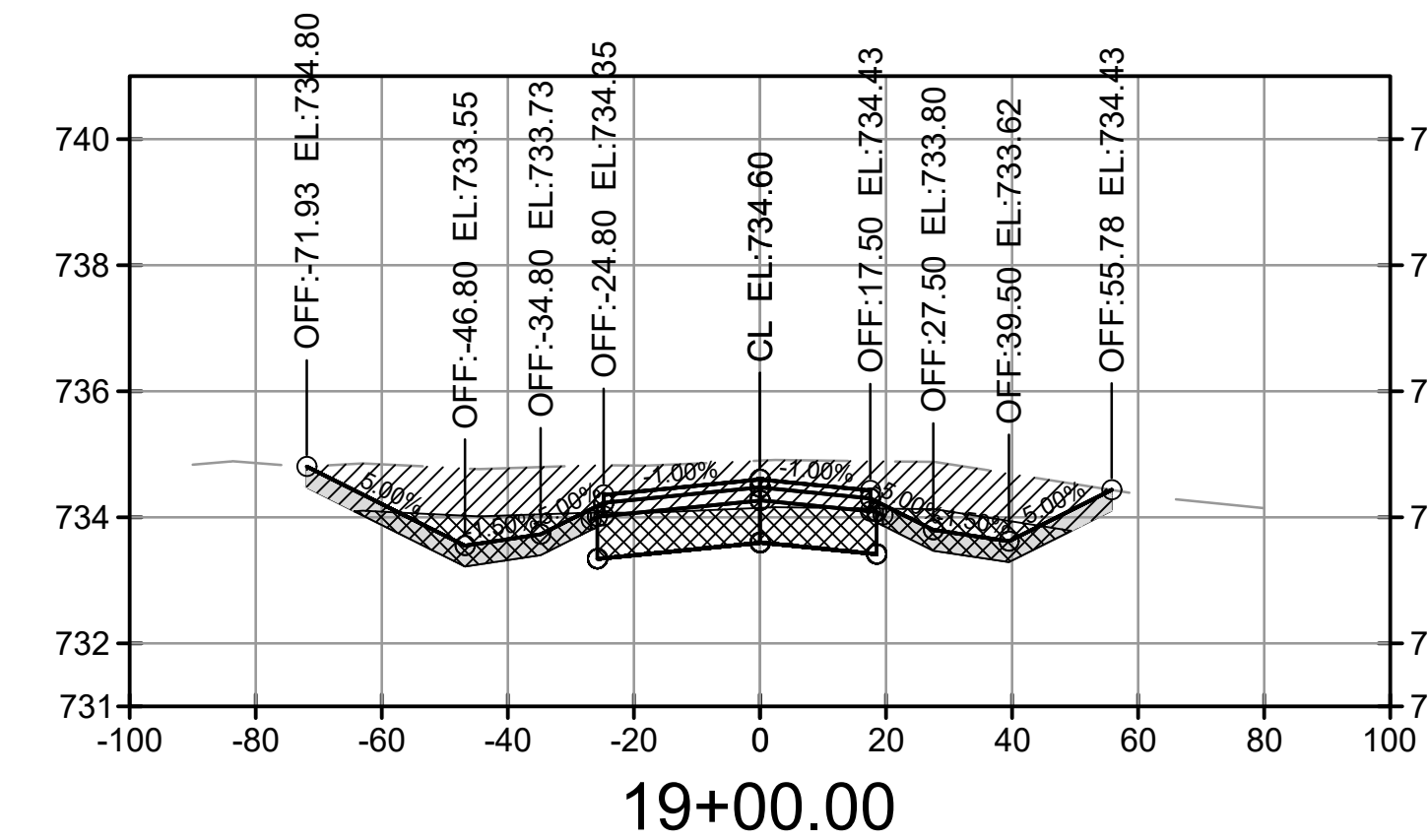
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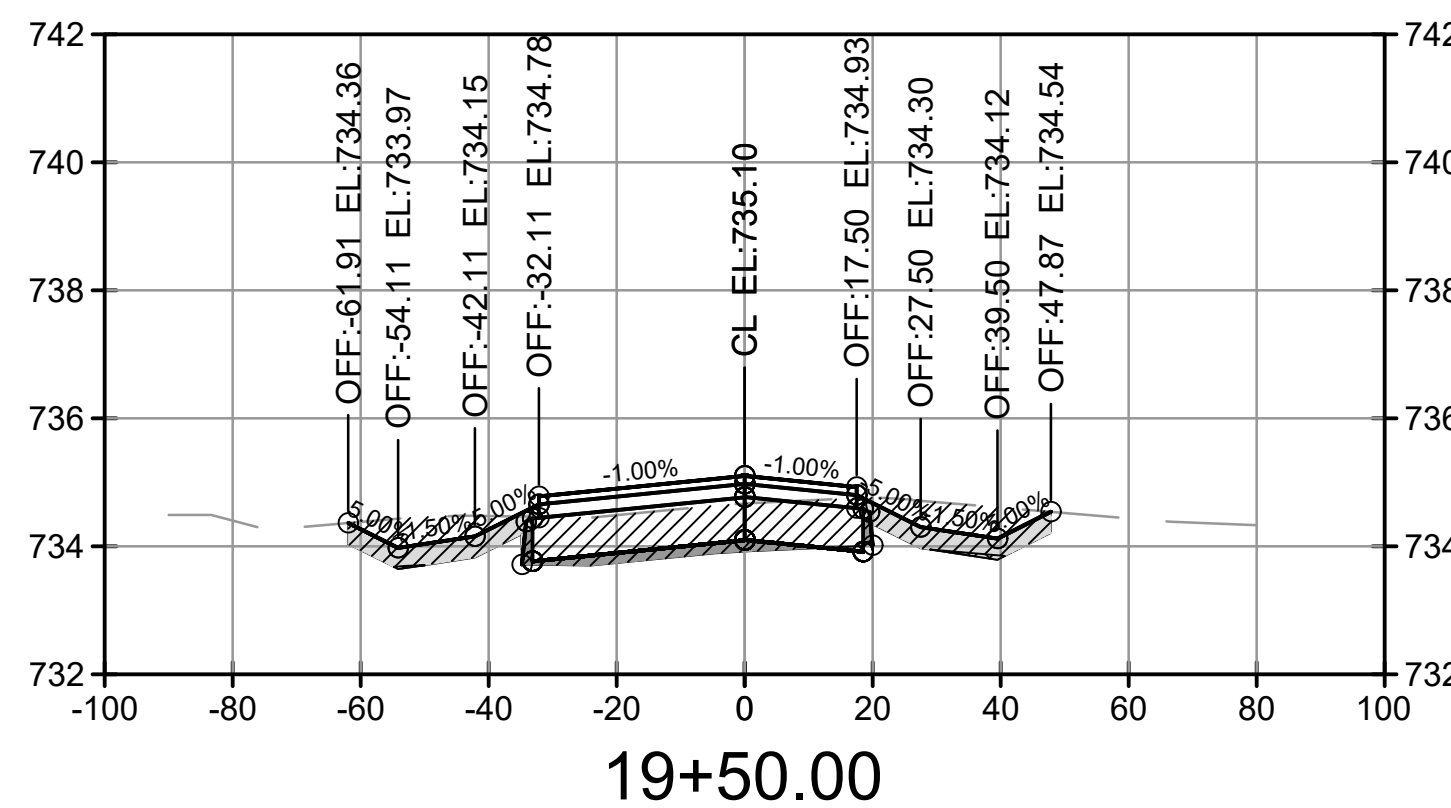
MATERIAL(S) AT STATION 18+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.34	1	25
CLAY CUT	37.19	47	854
TS CUT (TO SUBGRADE)	86.46	139	1948
TS CUT (UNDER PVMT)	0.08	0	11
TS FILL (SHOULDER)	23.62	35	421
TS FILL (ADJ PVMT)	0.01	0	17



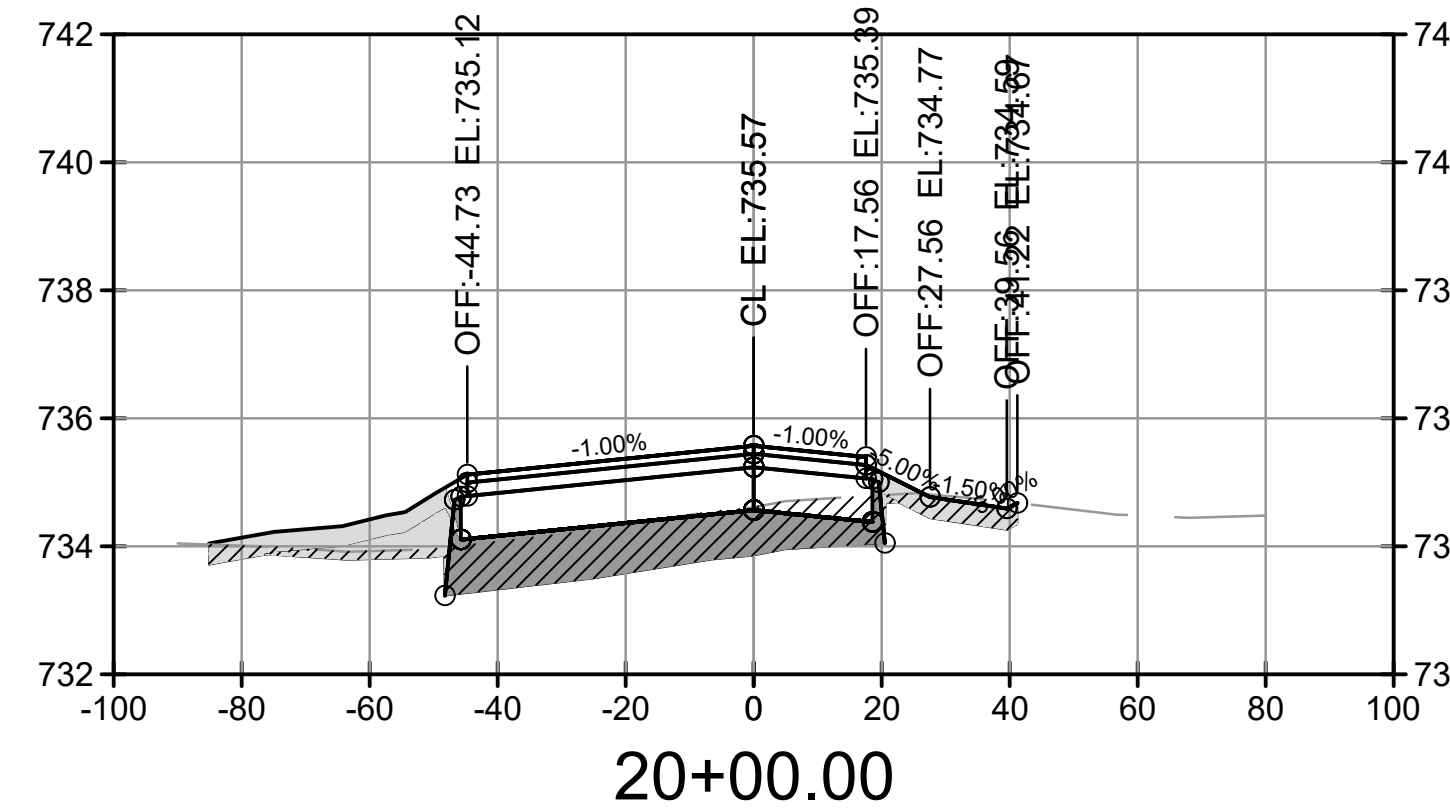
MATERIAL(S) AT STATION 18+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.00	0	25
CLAY CUT	77.86	107	961
TS CUT (TO SUBGRADE)	92.40	166	2113
TS CUT (UNDER PVMT)	0.00	0	11
TS FILL (SHOULDER)	28.22	48	469
TS FILL (ADJ PVMT)	0.00	0	17



MATERIAL(S) AT STATION 19+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	0.00	0	25
CLAY CUT	63.11	131	1091
TS CUT (TO SUBGRADE)	92.85	172	2285
TS CUT (UNDER PVMT)	0.00	0	11
TS FILL (SHOULDER)	27.52	52	521
TS FILL (ADJ PVMT)	0.00	0	17



MATERIAL(S) AT STATION 19+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	7.55	7	32
CLAY CUT	0.80	59	1151
TS CUT (TO SUBGRADE)	68.25	149	2434
TS CUT (UNDER PVMT)	7.40	7	18
TS FILL (SHOULDER)	19.19	43	564
TS FILL (ADJ PVMT)	0.21	0	17



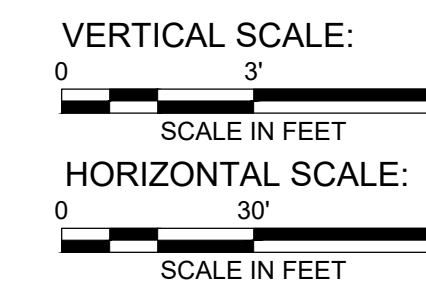
MATERIAL(S) AT STATION 20+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	49.18	50	82
CLAY CUT	0.00	1	1151
TS CUT (TO SUBGRADE)	14.35	76	2510
TS CUT (UNDER PVMT)	49.70	50	68
TS FILL (SHOULDER)	20.05	35	599
TS FILL (ADJ PVMT)	8.91	7	24

NOTES:

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LEGEND:

- TOPSOIL CUT
- CLAY CUT
- TOPSOIL FILL
- CLAY FILL



no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



200 W ADAMS ST. STE 2601
CHICAGO, IL 60606
312-223-0920
LICENSEE NO. 184-001310

date	MARCH 23, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



RECONSTRUCT AND REALIGN TAXIWAY E CROSS SECTIONS

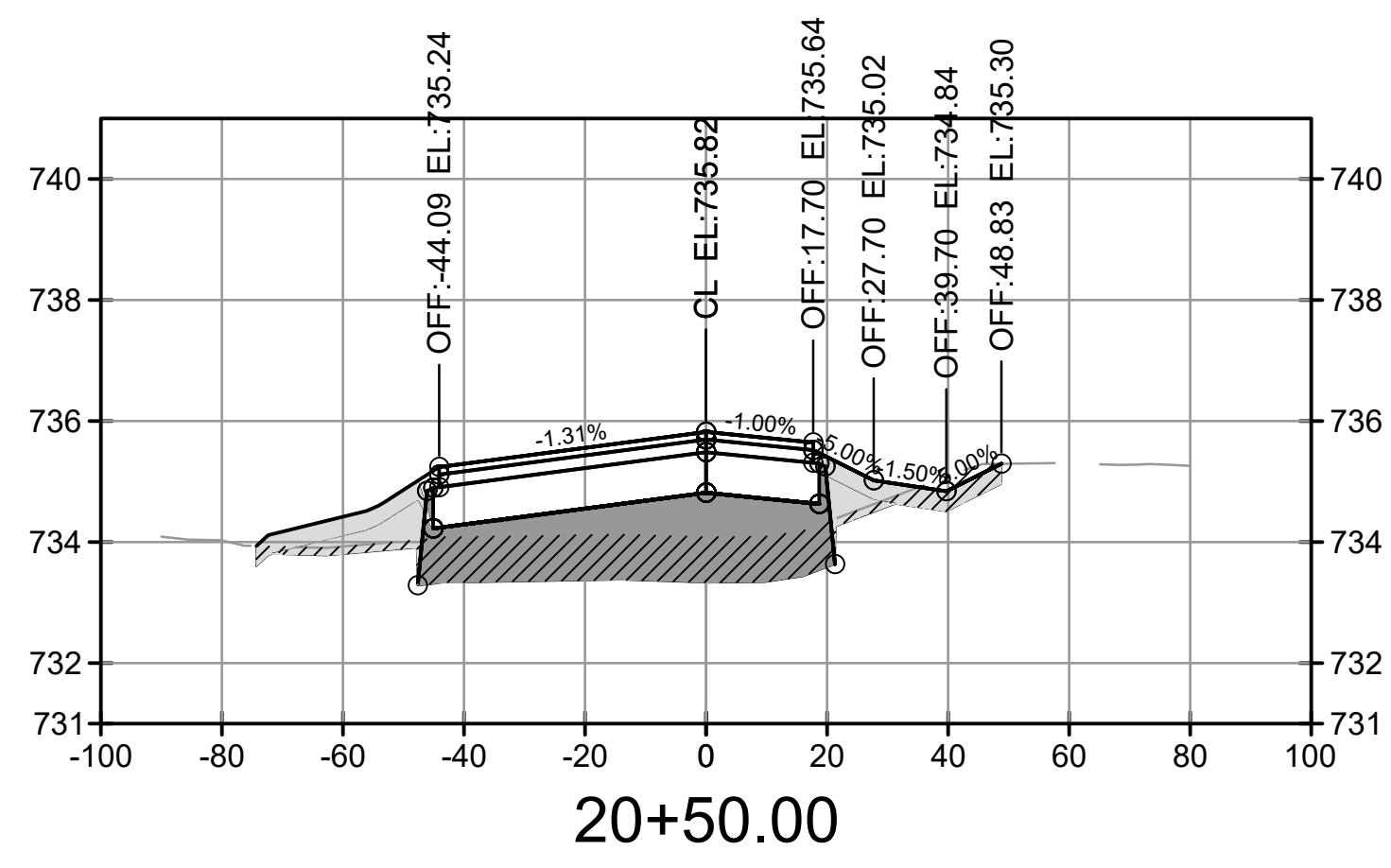
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drawing	rev.
CX-103 - 0	
sheet 36	of 38 sheets
file 95601_CX-103_CROSS SECTIONS	

Scale For Microfining

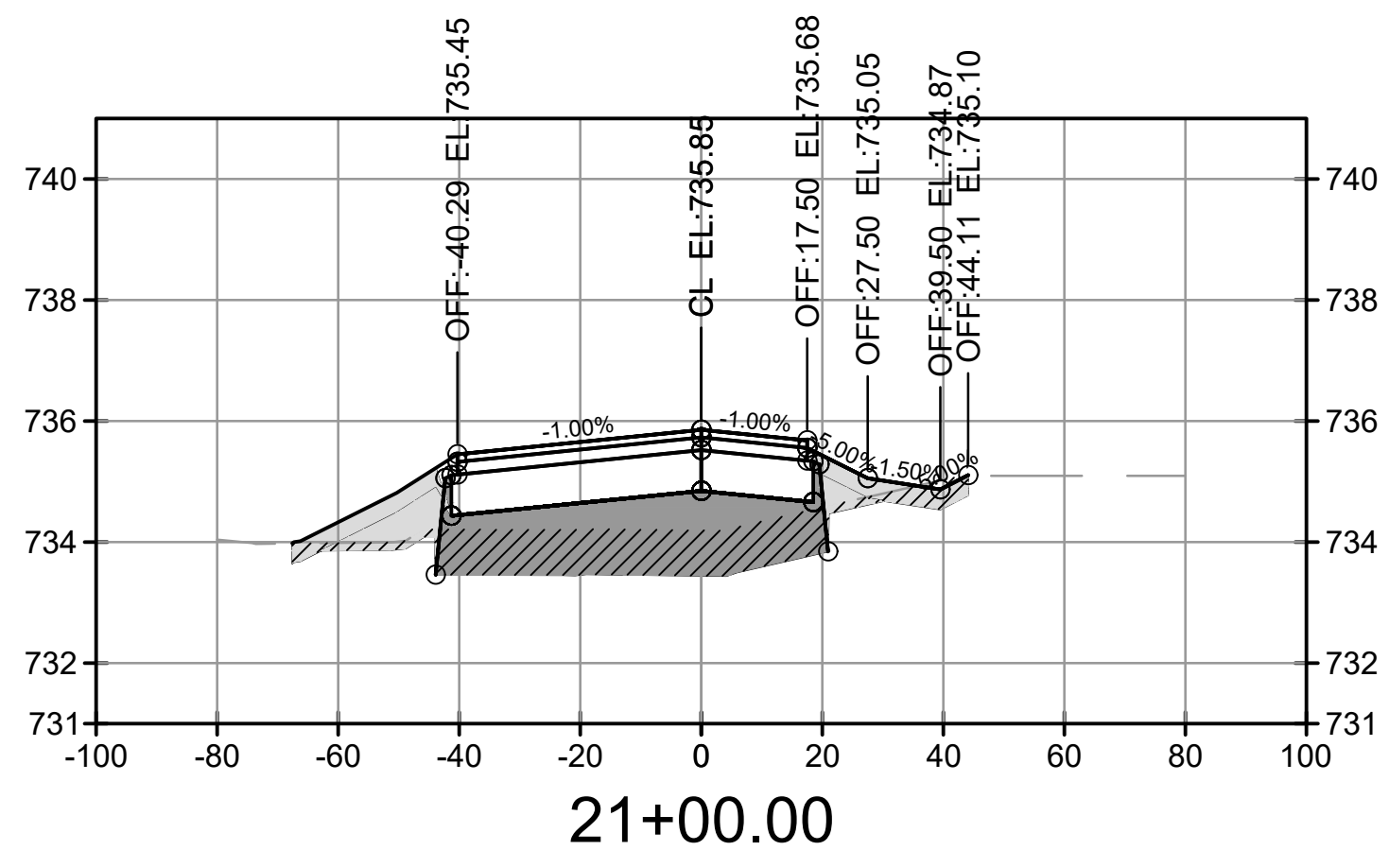
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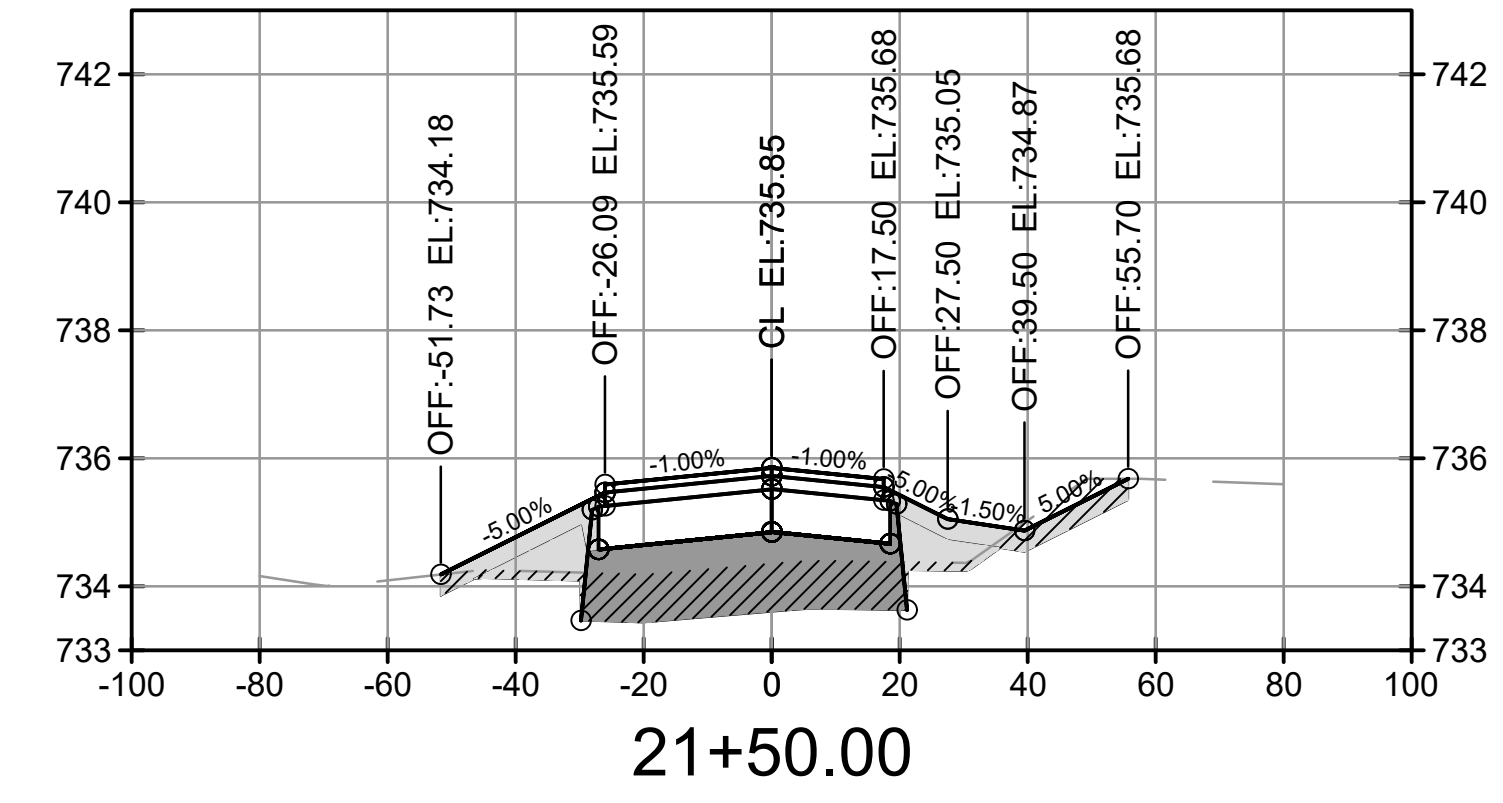
no.	date	by	ckd	description
0	04/20/18	JY	SJM	ISSUED FOR CONSTRUCTION



MATERIAL(S) AT STATION 20+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	83.65	95	178
CLAY CUT	0.00	0	1151
TS CUT (TO SUBGRADE)	8.33	26	2536
TS CUT (UNDER PVMT)	55.60	70	138
TS FILL (SHOULDER)	19.57	24	622
TS FILL (ADJ PVMT)	12.88	7	32



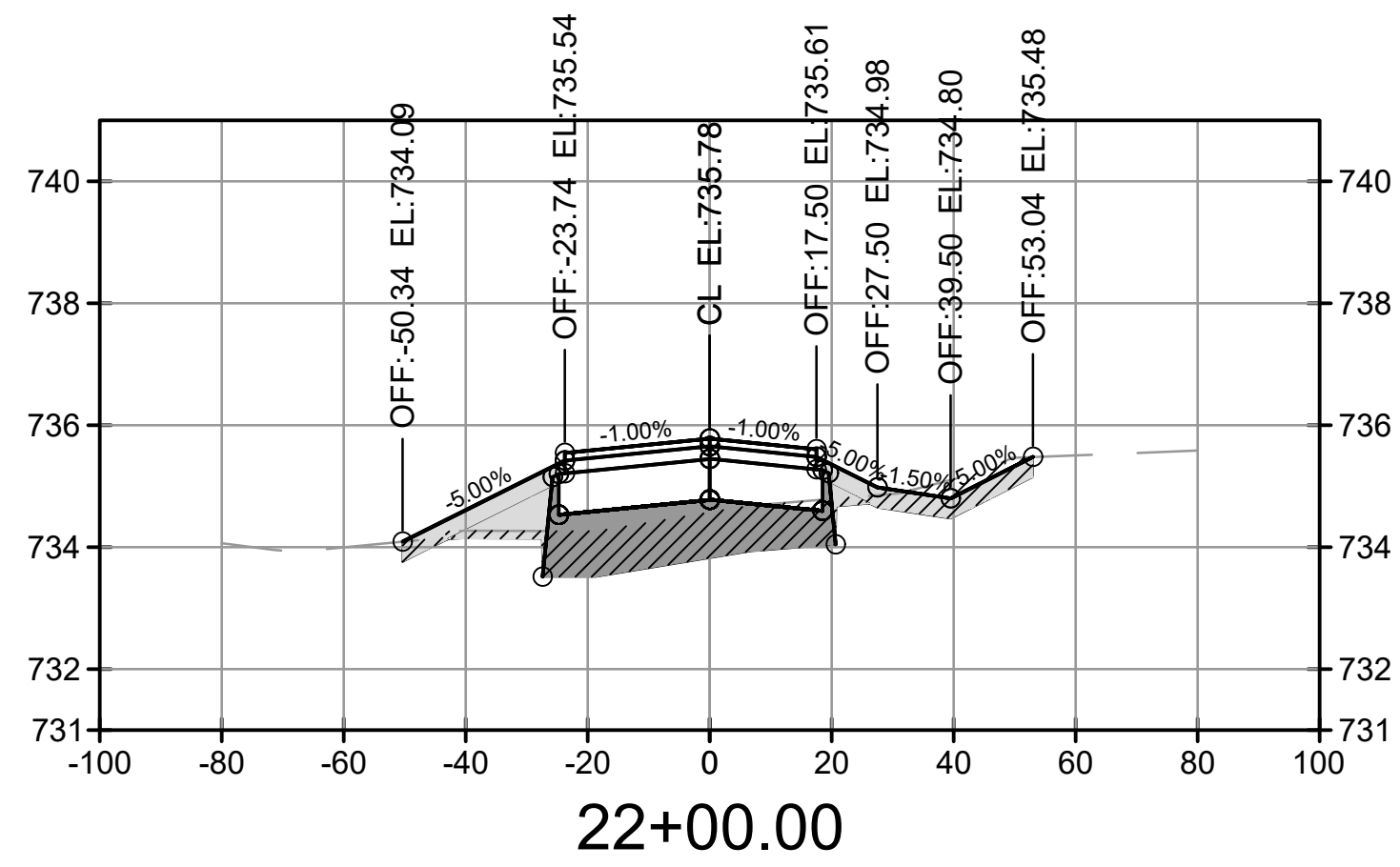
MATERIAL(S) AT STATION 21+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	76.06	128	306
CLAY CUT	0.00	0	1151
TS CUT (TO SUBGRADE)	6.15	17	2553
TS CUT (UNDER PVMT)	51.84	83	222
TS FILL (SHOULDER)	16.53	29	651
TS FILL (ADJ PVMT)	12.35	15	47



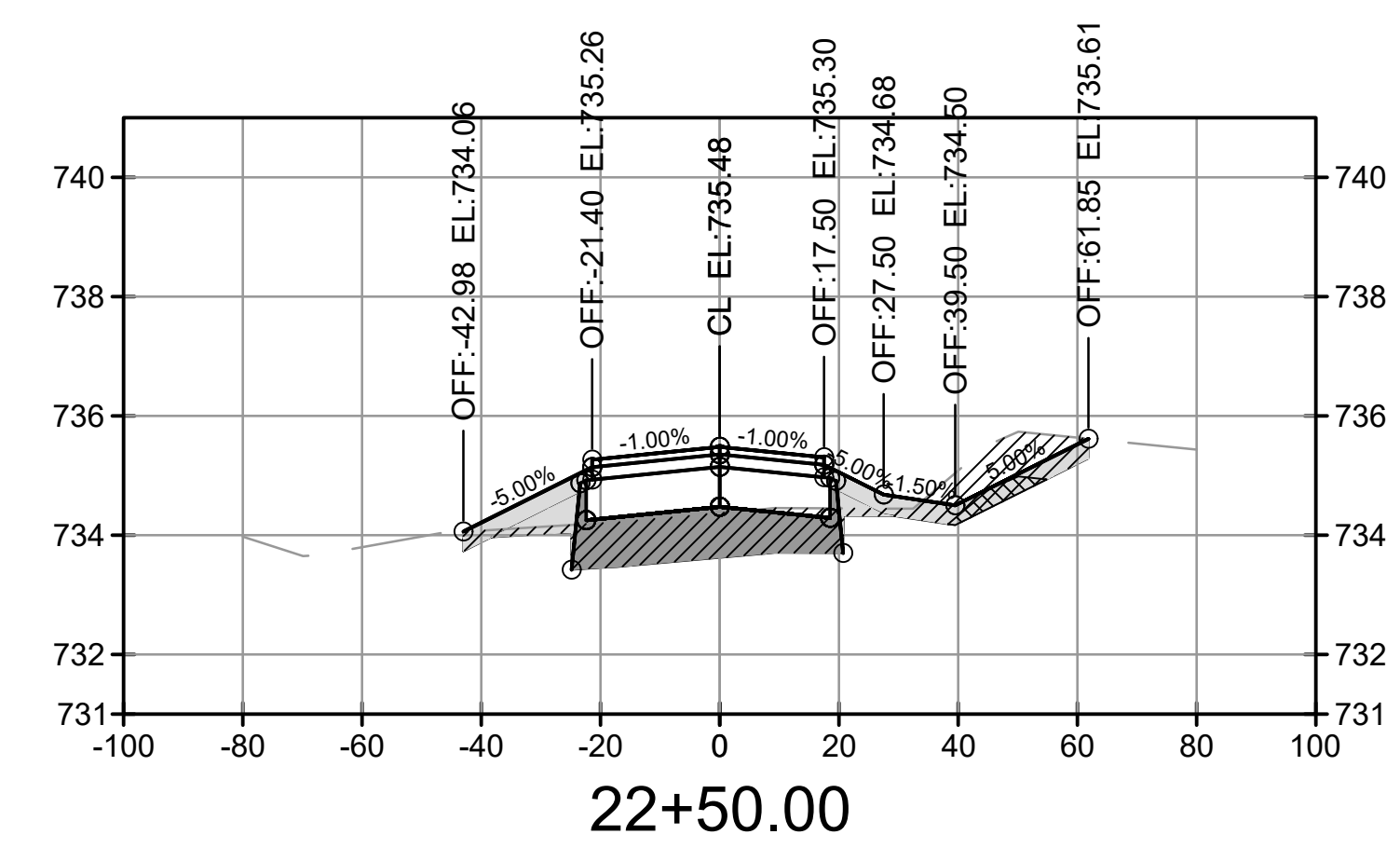
MATERIAL(S) AT STATION 21+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	59.80	126	432
CLAY CUT	0.00	0	1151
TS CUT (TO SUBGRADE)	11.09	16	2569
TS CUT (UNDER PVMT)	41.93	87	308
TS FILL (SHOULDER)	21.32	35	686
TS FILL (ADJ PVMT)	15.42	26	72

Millimeters
Scale For Microfinishing

Inches



MATERIAL(S) AT STATION 22+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	44.01	96	528
CLAY CUT	0.00	0	1151
TS CUT (TO SUBGRADE)	14.34	24	2593
TS CUT (UNDER PVMT)	37.58	74	382
TS FILL (SHOULDER)	19.85	38	724
TS FILL (ADJ PVMT)	8.32	22	94



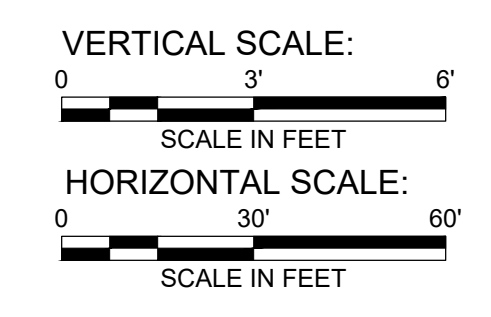
MATERIAL(S) AT STATION 22+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	36.13	74	602
CLAY CUT	3.50	3	1155
TS CUT (TO SUBGRADE)	22.11	34	2626
TS CUT (UNDER PVMT)	35.30	67	449
TS FILL (SHOULDER)	21.09	38	762
TS FILL (ADJ PVMT)	6.66	14	108

NOTES:

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LEGEND:

- TOPSOIL CUT
- CLAY CUT
- TOPSOIL FILL
- CLAY FILL



BURNS MEDONNELL
 200 W ADAMS ST. STE 2601
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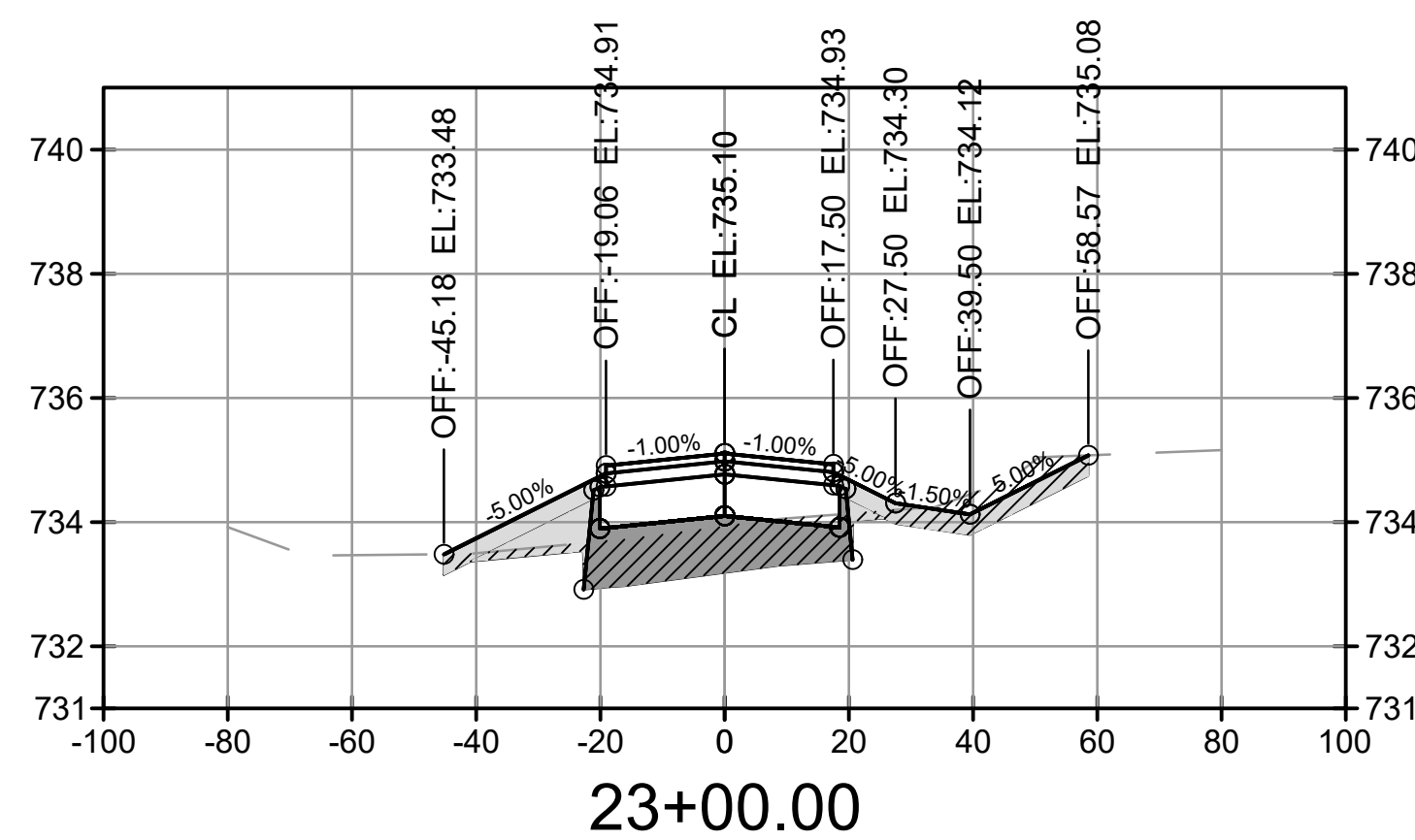
date	MARCH 23, 2018	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



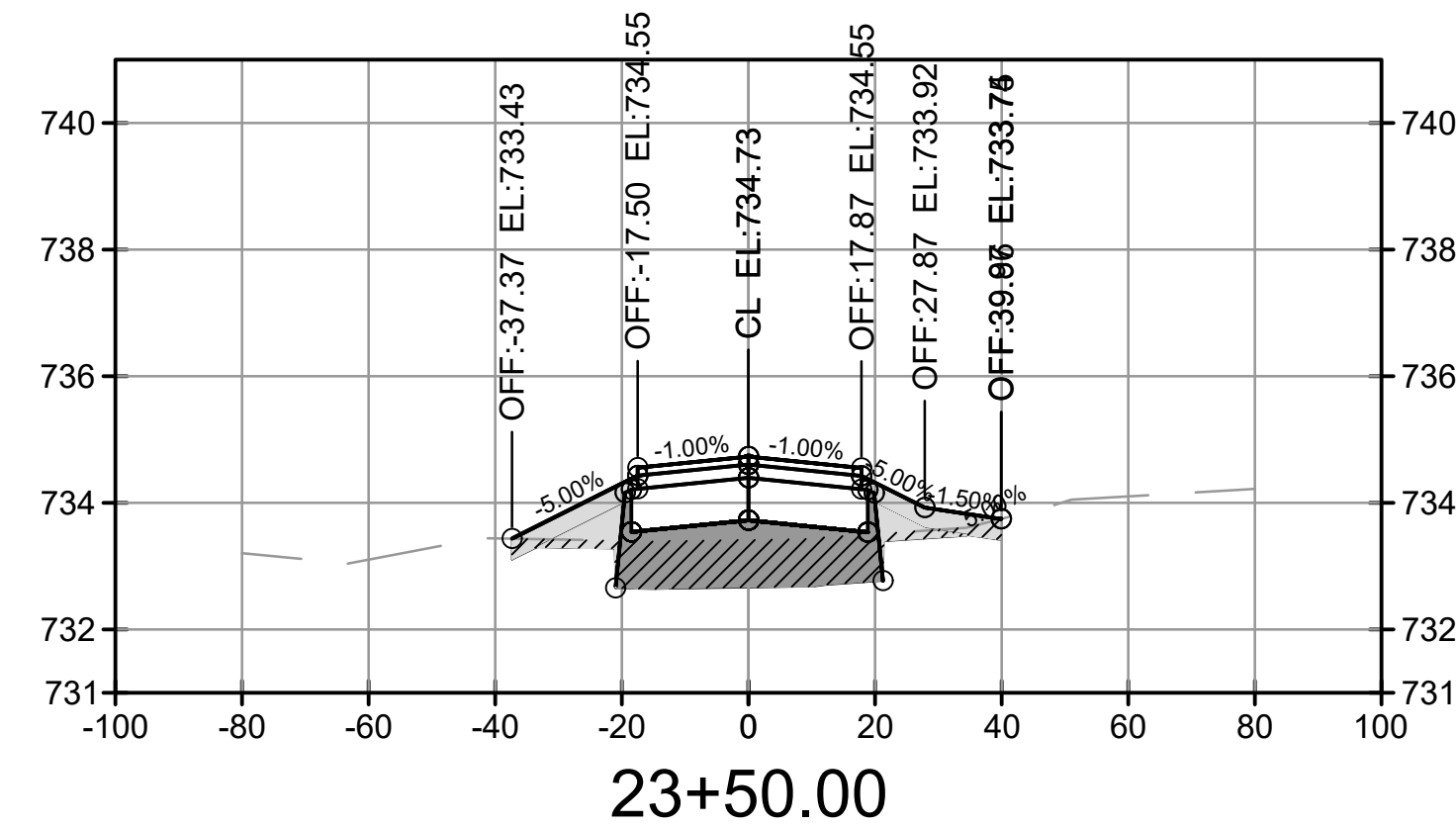
RECONSTRUCT AND REALIGN TAXIWAY E CROSS SECTIONS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CX-104 - 0	
sheet 37	of 38 sheets
file 95601_CX-104_CROSS SECTIONS	

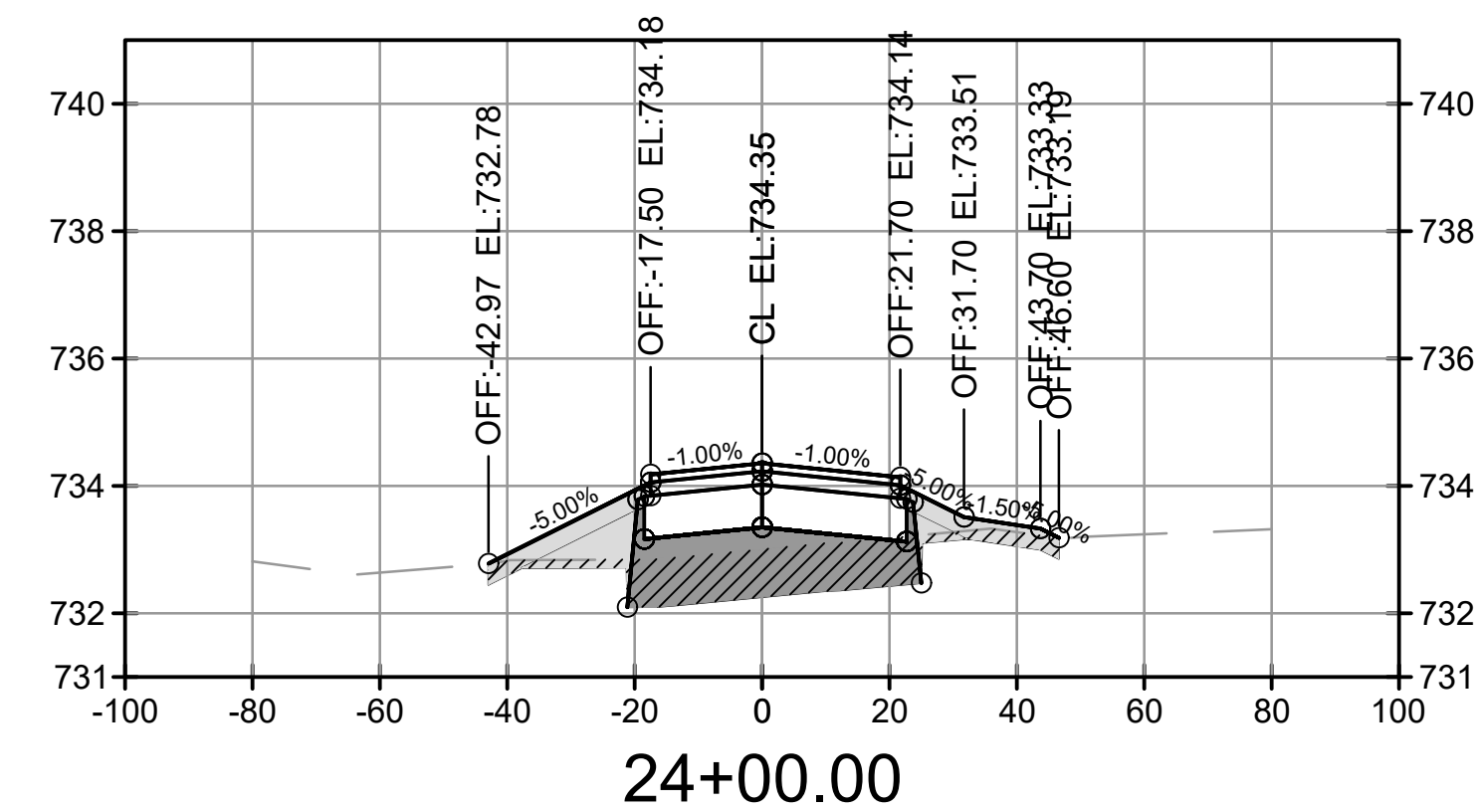
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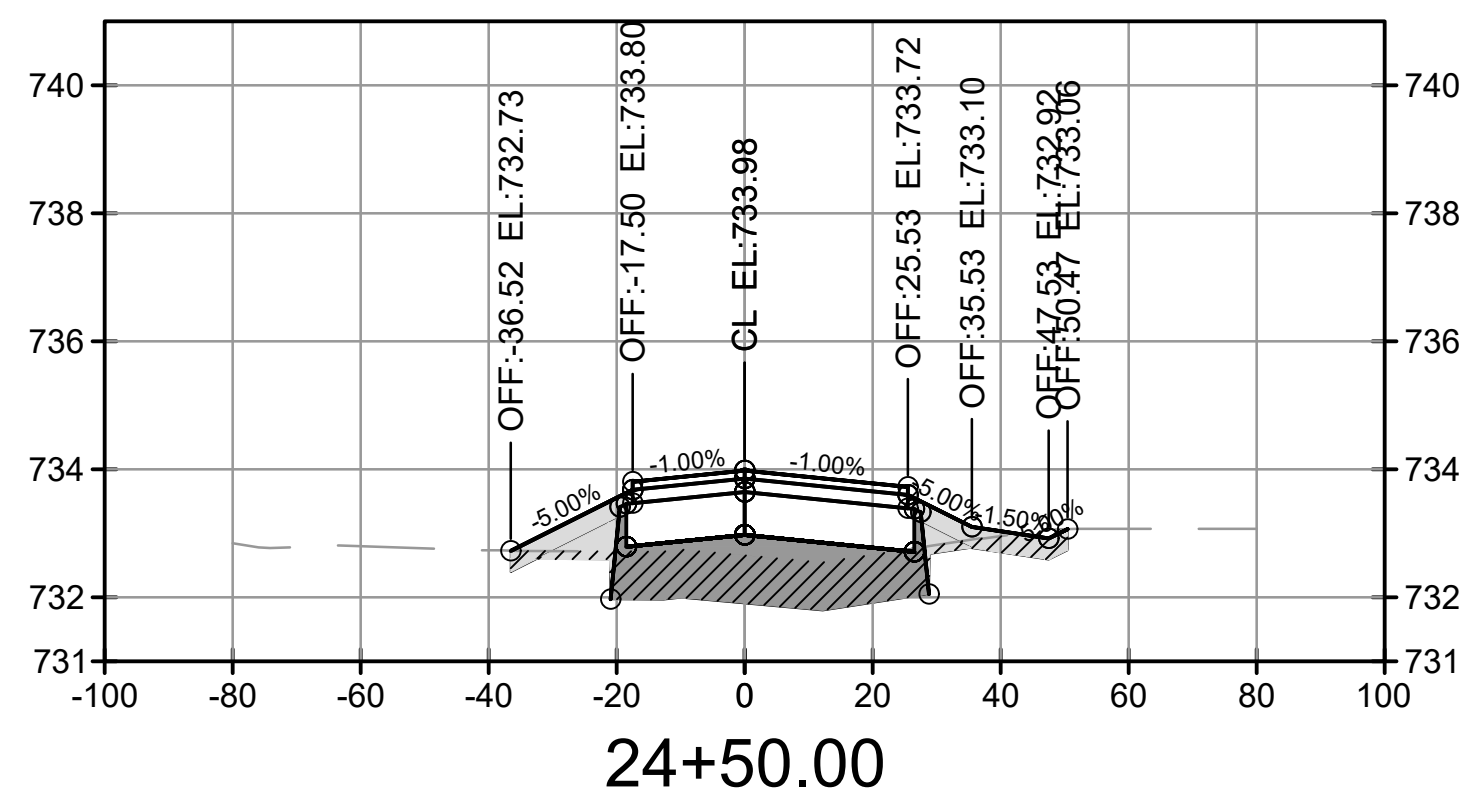
MATERIAL(S) AT STATION 23+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	36.91	68	670
CLAY CUT	0.00	3	1158
TS CUT (TO SUBGRADE)	18.56	38	2664
TS CUT (UNDER PVMT)	33.89	64	514
TS FILL (SHOULDER)	21.52	39	801
TS FILL (ADJ PVMT)	8.98	14	123



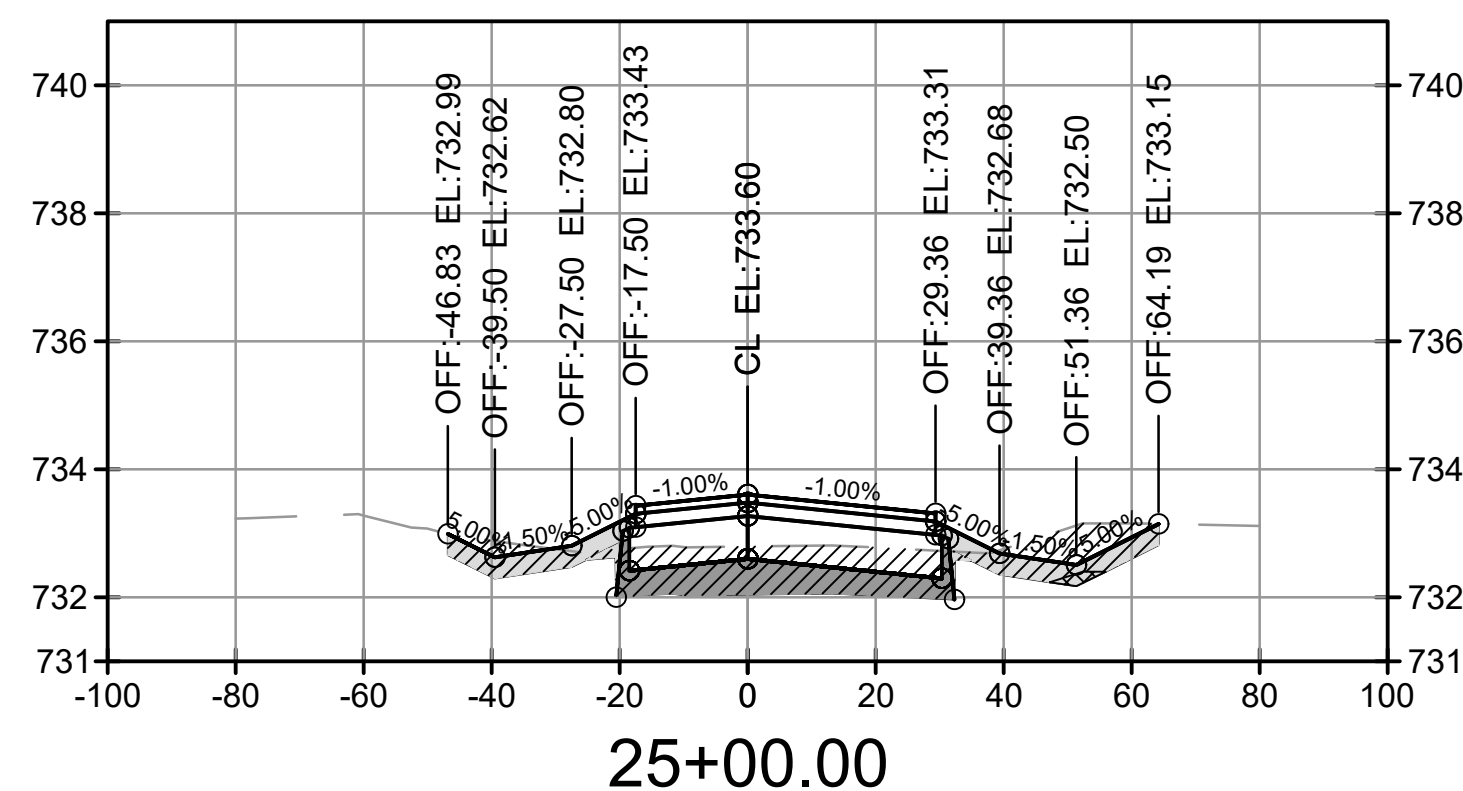
MATERIAL(S) AT STATION 23+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	40.81	72	742
CLAY CUT	0.00	0	1158
TS CUT (TO SUBGRADE)	2.58	20	2684
TS CUT (UNDER PVMT)	34.52	63	577
TS FILL (SHOULDER)	13.01	32	833
TS FILL (ADJ PVMT)	8.44	16	139



MATERIAL(S) AT STATION 24+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	45.35	80	821
CLAY CUT	0.00	0	1158
TS CUT (TO SUBGRADE)	4.83	7	2691
TS CUT (UNDER PVMT)	37.16	66	643
TS FILL (SHOULDER)	15.96	27	860
TS FILL (ADJ PVMT)	9.96	17	156



MATERIAL(S) AT STATION 24+50.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	47.18	86	907
CLAY CUT	0.00	0	1158
TS CUT (TO SUBGRADE)	6.01	10	2701
TS CUT (UNDER PVMT)	39.31	71	714
TS FILL (SHOULDER)	13.90	28	888
TS FILL (ADJ PVMT)	6.18	15	171



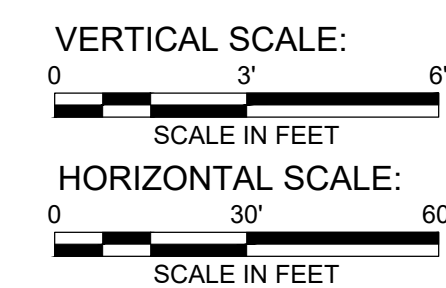
MATERIAL(S) AT STATION 25+00.00			
MATERIAL NAME	AREA (SF)	VOLUME (CY)	CUMULATIVE VOLUME (CY)
CLAY FILL	24.27	66	973
CLAY CUT	0.91	1	1159
TS CUT (TO SUBGRADE)	40.95	43	2744
TS CUT (UNDER PVMT)	24.88	59	773
TS FILL (SHOULDER)	20.51	32	920
TS FILL (ADJ PVMT)	1.33	7	178

NOTES:

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LEGEND:

- TOPSOIL CUT
- CLAY CUT
- TOPSOIL FILL
- CLAY FILL



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RECONSTRUCT AND REALIGN TAXIWAY E CROSS SECTIONS

IL Proj. No. TIP-4579	contract
BMCD Proj. No. 95601	RA016
drawing	rev.
CX-105 - 0	
sheet 38	of 38 sheets
file 95601_CX-105_CROSS SECTIONS	