

DUPAGE AIRPORT AUTHORITY

CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO



NOVEMBER 2018

BURNS & MCDONNELL
PROJECT: 108644
IL PROJECT NO. DPA-4564
SBG PROJECT NO. 3-17-SBGP-129

| DUPAGE AIRPORT | |
|--------------------|-------------------------|
| TOWNSHIP: 40 NORTH | WAYNE TOWNSHIP |
| RANGE: 9 EAST | (SECTIONS: 29,30,31,32) |
| DUPAGE COUNTY | |

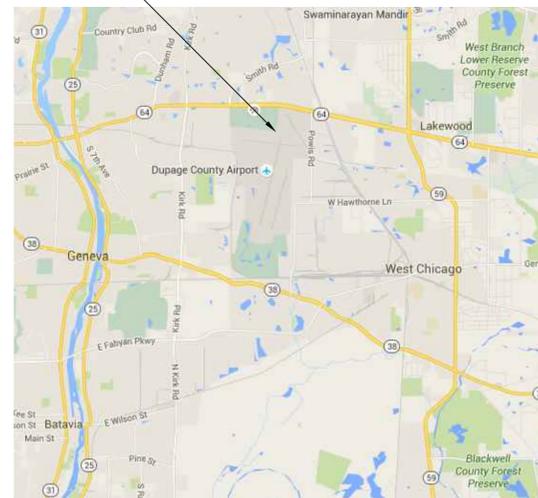
811 Know what's below.
Call before you dig.

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.

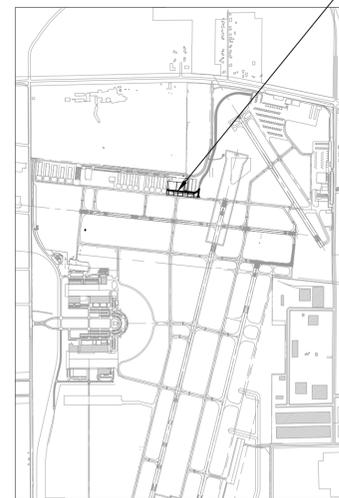
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

PROJECT LOCATION



LOCATION MAP

PROJECT LOCATION



SITE MAP



BURNS & MCDONNELL

BURNS & MCDONNELL
1431 OPUS PLACE
SUITE 400
DOWNERS GROVE, IL 60515
PHONE (630) 724-3200
FAX (630) 724-3201

062-070626
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

SUBMITTED BY: *Janaid Yahya* EXP. 11/30/19

DATE: 11/16/18

**DUPAGE AIRPORT
AUTHORITY**

2700 INTERNATIONAL DRIVE
SUITE 200
WEST CHICAGO, IL 60185

APPROVED BY: *David Bird*
DAVID BIRD - EXECUTIVE DIRECTOR

DATE: 11/16/18

| no. | date | by | ckd | description |
|-----|----------|----|-----|----------------|
| | 11/16/18 | JY | SJM | 100% SUBMITTAL |



1431 OPUS PLACE, SUITE 400
DOWNERS GROVE, IL 60515
630-724-3200
ILLINOIS FIRM REGISTRATION NO. 184-001310

PROJECT ADDRESS:
2700 INTERNATIONAL DRIVE #200
WEST CHICAGO, IL 60185

| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |

| INDEX OF DRAWINGS | | |
|-------------------|-------------|--|
| PAGE NO. | DRAWING NO. | TITLE |
| 1 | G-000 | COVER |
| 2 | G-001 | INDEX OF DRAWINGS, SUMMARY OF QUANTITIES AND ABBREVIATIONS |
| 3 | G-101 | CONTRACTOR ACCESS AND SAFETY NOTES |
| 4 | G-102 | CONSTRUCTION ACCESS, SAFETY AND PHASING PLAN |
| 5 | G-103 | CONSTRUCTION ACCESS, SAFETY AND PHASING PLAN |
| 6 | CD-101 | DEMOLITION PLAN |
| 7 | CS-101 | ROADWAY PLAN AND PROFILE |
| 8 | CT-100 | TYPICAL SECTION AND DETAILS |
| 9 | CG-101 | GRADING PLAN |
| 10 | CU-101 | DRAINAGE AND SOIL EROSION SEDIMENT CONTROL PLAN |
| 11 | CU-201 | DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS |
| 12 | CU-202 | DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS |
| 13 | CU-203 | DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS |
| 14 | CP-101 | PAVEMENT MARKING AND SIGNAGE PLAN |
| 15 | CP-110 | PAVEMENT MARKING AND SIGNAGE DETAILS |
| 16 | CX-101 | CROSS SECTIONS |
| 17 | CX-102 | CROSS SECTIONS |

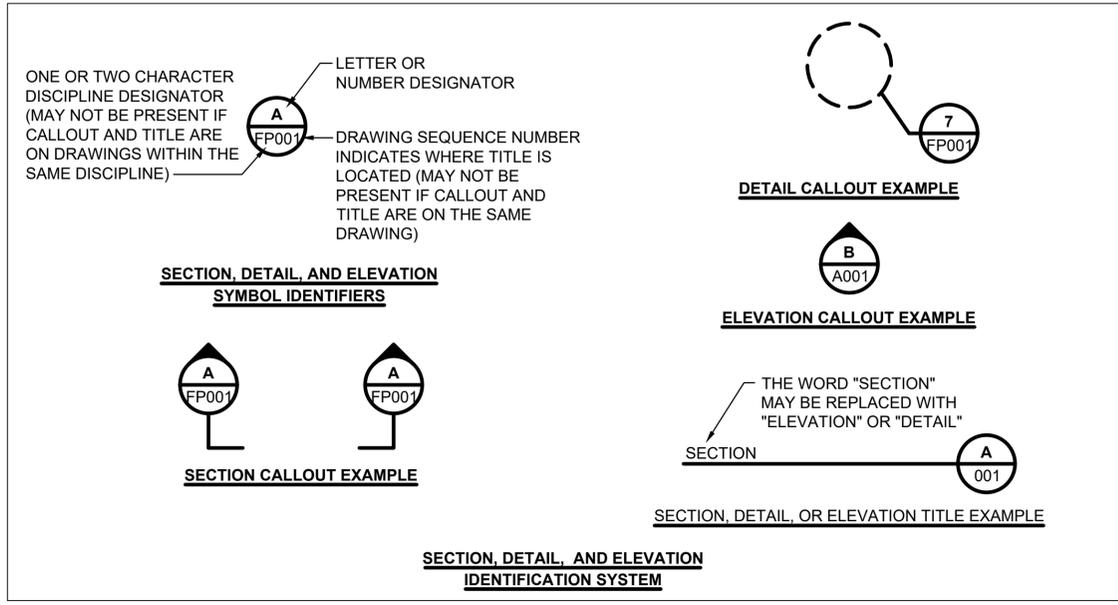
| ITEM NO. | PAY ITEM NO. | DESCRIPTION | UOM | QUANTITY |
|----------|--------------|--|------|----------|
| 1 | AR150520 | MOBILIZATION | LS | 1 |
| 2 | AR150530 | TRAFFIC MAINTENANCE | LS | 1 |
| 3 | AR108960 | REMOVE CABLE | LF | 50 |
| 4 | AR110550 | SPLIT DUCT | LF | 100 |
| 5 | AR152410 | UNCLASSIFIED EXCAVATION | CY | 500 |
| 6 | AR152520 | UNDERCUT | SY | 1,408 |
| 7 | AR156510 | SILT FENCE | LF | 625 |
| 8 | AR156520 | INLET PROTECTION | EA | 6 |
| 9 | AR156531 | EROSION CONTROL BLANKET | SY | 1,645 |
| 10 | AR156543 | RIPRAP - GRAD. NO. 3 | SY | 2.5 |
| 11 | AR201663 | SAND MIX CRACK REPAIR | LF | 20 |
| 12 | AR209600 | GEOTEXTILE FABRIC | SY | 2,125 |
| 13 | AR209610 | CRUSHED AGG. BASE COURSE - 10" | SY | 1,286 |
| 14 | AR401610 | BITUMINOUS SURFACE COURSE | TON | 125 |
| 15 | AR401650 | BITUMINOUS PAVEMENT MILLING | SY | 322 |
| 16 | AR401900 | REMOVE BITUMINOUS PAVEMENT | SY | 425 |
| 17 | AR403610 | BITUMINOUS BASE COURSE | TON | 163 |
| 18 | AR602510 | BITUMINOUS PRIME COAT | GAL | 582 |
| 19 | AR603510 | BITUMINOUS TACK COAT | GAL | 223 |
| 20 | AR620520 | PAVEMENT MARKING - WATERBORNE | SF | 580 |
| 21 | AR620900 | PAVEMENT MARKING REMOVAL | SF | 20 |
| 22 | AR701512 | 12" RCP, CLASS IV | LF | 160 |
| 23 | AR701900 | REMOVE PIPE | LF | 17 |
| 24 | AR752412 | PRECAST REINFORCED CONC. FES 12" | EA | 2 |
| 25 | AR752900 | REMOVE END SECTION | EA | 2 |
| 26 | AR754410 | COMB CONCRETE CURB & GUTTER | LF | 20 |
| 27 | AR754904 | REMOVE COMB CURB & GUTTER | LF | 20 |
| 28 | AR803062 | 48" DIA. CATCH BASIN W/ 18R SNOUT & BIOSKIRT | EA | 2 |
| 29 | AR803065 | CONSTRUCTION ENTRANCE | LS | 1 |
| 30 | AR803066 | CORE & CONNECT TO EXISTING BOX MANHOLE | EA | 2 |
| 31 | AR803071 | COIR WATTLE | EA | 4 |
| 32 | AR901510 | SEEDING | ACRE | 0.34 |
| 33 | AR910200 | ROADWAY SIGN | EA | 7 |
| 34 | AR910975 | RELOCATE ROADWAY SIGN | EA | 3 |

ABBREVIATIONS:

| | |
|----------|---|
| AC | ADVISORY CIRCULAR |
| AOA | AIR OPERATIONS AREA |
| ARFF | AIRPORT RESCUE AND FIRE FIGHTING |
| ACTC | AIR TRAFFIC CONTROL TOWER |
| 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 |
| DAA | DUPAGE AIRPORT AUTHORITY |
| 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 |
| UOM | UNIT OF MEASURE |
| UON | UNLESS OTHERWISE NOTED |
| VC | VERTICAL CURVE |
| VERT | VERTICAL |
| W | WEST |

Scale For Microfitting

Inches



1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| | | | |
|----------|---------------|----------|---------------|
| date | JULY 30, 2018 | detailed | J. YAHYA |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |



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|--|----------|--------|--|
| CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO | | | |
| INDEX OF DRAWINGS, SUMMARY OF QUANTITIES AND ABBREVIATIONS | | | |
| IL Proj. No. DPA-4564 | contract | | |
| BMcD Proj. No. 108644 | DU084 | | |
| drawing | rev. | | |
| G-001 — — — — | | | |
| sheet 2 | of 17 | sheets | |
| file | | | |

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 AND PASSABLE AT ALL TIMES.
- B. CONTRACTOR SHALL FURNISH AND INSTALL A PROFESSIONALLY PAINTED SIGN MEETING OWNER 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.

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-004 BY USING BARRICADES AS DETAILED ON G-005. 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 ATCT GROUND CONTROL IS 121.800.
- F. 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.

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 SHALL BE IN CONFORMANCE WITH THE FAA FORM 7460 DEVELOPED FOR THIS PROJECT. EQUIPMENT MUST NOT PENETRATE THE ROFA OF ANY ACTIVE RUNWAY AS DEFINED IN FAA AC 150/5300-13A, (CURRENT EDITION).
- 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-102.
- 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 10 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.
10. CONTRACTOR SHALL VERIFY WITH THE DUPAGE AIRPORT AUTHORITY AND ASSOCIATED UTILITY COMPANIES AND AGENCIES THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL EXAMINE THE FINISHED SURFACE, GRADES, TOPSOIL QUALITY, AND TOPSOIL DEPTH PRIOR TO LANDSCAPING. NO WORK SHALL BE CONDUCTED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. CONTRACTOR SHALL VERIFY LIMITS OF WORK BEFORE STARTING.
12. CONTRACTOR SHALL IMPORT AND/OR PROVIDE SALVAGED TOPSOIL MEETING THE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
13. THE CONTRACTOR SHALL FURNISH AND PLACE A MINIMUM OF 4.00 INCHES OF TOPSOIL, WITH THE LOWER PORTION BLENDED INTO EXISTING SOILS.
14. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR ALL LANDSCAPE AND LAWN AREAS.
15. PROPOSED ELEVATIONS INDICATED ARE FOR TOP OF FINAL GRADE, PAVEMENT, OR STRUCTURE UNLESS INDICATED OTHERWISE.
16. ELEVATIONS DENOTED AS "MATCH" ARE INTENDED TO MEET EXISTING GRADE ELEVATIONS. CONTRACTOR SHALL VERIFY ELEVATIONS AT TIE-INS AND MATCH POINTS PRIOR TO BEGINNING CONSTRUCTION.

17. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE FEATURE OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER SUBJECT TO THE APPROVAL OF THE OWNER.
18. THE CONTRACTOR SHALL REMOVE STANDING WATER FROM THE PROJECT WORK LIMITS AS NECESSARY TO PROTECT SUBGRADE, SUBBASE, AND/OR BASE COURSE TO NEW PAVEMENT, SURROUNDING PAVEMENT-TO-REMAIN, OR OTHER COMPLETED WORKS.
19. CONNECTION TO EXISTING WATER, SEWER, AND STORM MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL REQUIREMENTS OF ASSOCIATED UTILITY COMPANIES AND AGENCIES.
20. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING ALL UTILITY CONNECTION FEES AND OBTAINING ALL PERMITS REQUIRED FOR THE UTILITY CONSTRUCTION AND CONNECTIONS. THIS INCLUDES ALL FEES ASSOCIATED WITH CONNECTION CHARGES AND METERS.
21. THE CONTRACTOR MUST ATTEND A MANDATORY SAFETY TRAINING MEETING LED BY THE DAA STAFF PRIOR TO THE START OF CONSTRUCTION.

| no. | date | by | ckd | description |
|-----|----------|----|-----|----------------|
| | 11/16/18 | JY | SJM | 100% SUBMITTAL |



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LICENSEE NO. 184-001310

| | | | |
|----------|----------------|----------|---------------|
| date | AUGUST 2, 2018 | detailed | J. YAHYA |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |



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|---|----------|-----------------------|-------|
| CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO CONTRACTOR ACCESS AND SAFETY NOTES | | | |
| IL Proj. No. DPA-4564 | contract | BMcD Proj. No. 108644 | DU084 |
| drawing | rev. | | |
| G-101 | | --- | ---- |
| sheet 3 | of 17 | sheets | |
| file | | | |

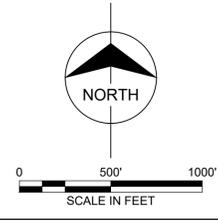
Millimeters

Scale For Microfinishing

Inches

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| no. | date | by | ckd | description |
|----------|------|-----|------|-------------|
| 11/16/18 | JY | SJM | 100% | SUBMITTAL |



SEE SHEET G-103 FOR NORTH PERIMETER ROAD NORTH ENTRANCE TRAFFIC MAINTENANCE REQUIREMENTS

E MAIN STREET

E NORTH AVENUE

CONTROLLED ACCESS GATE
200' X 50' CONTRACTOR STAGING AREA
LIMITS OF WORK

TOWER ROAD

CP-1

CP-4

RUNWAY 15-33

CP-2

CP-3

TAXIWAY E

CP-5

RUNWAY 10-28

TAXIWAY G

RUNWAY 2L-20R

RUNWAY 2R-20L

CP-6 DISPOSAL AREA FOR EXCESS TOPSOIL AND EXCAVATION MATERIAL

CP-7

LEGEND:

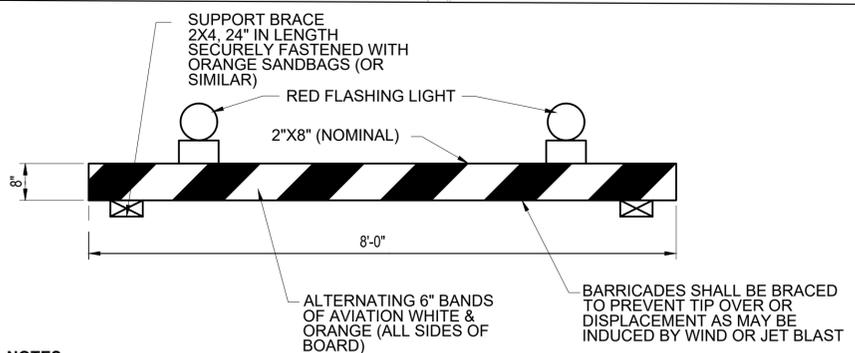
- LOW PROFILE BARRICADES
- CONTRACTOR ACCESS ROUTE
- PART 77 APPROACH AND TRANSITIONAL SURFACE
- LIMITS OF WORK

CIVIL AIR PATROL HEADQUARTERS

FREEDOM DRIVE

CP-8

DISPOSAL AREA FOR EXCESS MILLINGS



NOTES:

1. FLASHERS SHALL BE BATTERY OPERATED. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.
2. SUPPORT BRACES SHALL BE SECURELY ATTACHED TO 2"x8".
3. SAND BAGS SHALL BE PLACED ON BOTH SIDES OF EACH SUPPORT BRACE. ALL SAND BAGS USED TO SECURE BARRICADES SHALL BE ORANGE.
4. FACING OF 2"x8" TO BE COVERED WITH REFLECTIVE TAPE OR PAINT.
5. LOW PROFILE BARRICADES ARE NOT SHOWN TO SCALE ON CONTRACTOR ACCESS AND SAFETY PLAN. CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF LOW PROFILE BARRICADES TO EXTEND ACROSS THE FULL PAVEMENT WIDTH AT THE LOCATIONS SHOWN WITH BARRICADES PLACED END TO END.
6. LOW-PROFILE BARRICADES DIFFERENT THAN DETAILED HERE MAY BE APPROVED FOR USE BY THE OWNER/ENGINEER. ALL LOW-PROFILE BARRICADES MUST MEET OR EXCEED REQUIREMENTS OF FAA ADVISORY CIRCULAR 150/5370-2 (CURRENT EDITION).

LOW-PROFILE BARRICADE
NOT TO SCALE



Scale For Microfitting
Millimeters
Inches

CRITICAL POINT DATA TABLE

| POINT | NORTHING | EASTING | LATITUDE | LONGITUDE | EG ELEVATION | PART 77 SURFACE ELEVATION | MAX EQUIPMENT HEIGHT (FT) |
|-------|------------|------------|----------------|----------------|--------------|---------------------------|---------------------------|
| CP-1 | 1911634.97 | 1006853.05 | 41° 54' 54.08" | 88° 15' 01.03" | 753.00 | 796.24 | 22.00 |
| CP-2 | 1911603.82 | 1006480.12 | 41° 54' 53.78" | 88° 15' 05.97" | 753.00 | 786.06 | 22.00 |
| CP-3 | 1911494.74 | 1006467.61 | 41° 54' 52.70" | 88° 15' 06.13" | 750.00 | 770.37 | 20.37 |
| CP-4 | 1911610.57 | 1007264.07 | 41° 54' 53.84" | 88° 14' 55.60" | 751.89 | 768.25 | 16.36 |
| CP-5 | 1911375.05 | 1007238.55 | 41° 54' 51.51" | 88° 14' 55.94" | 752.82 | 763.53 | 10.71 |
| CP-6 | 1910103.60 | 1010710.95 | 41° 54' 38.91" | 88° 14' 10.03" | 764.00 | 816.29 | 22.00 |
| CP-7 | 1909603.60 | 1010710.95 | 41° 54' 33.97" | 88° 14' 10.03" | 765.00 | 811.44 | 22.00 |
| CP-8 | 1906780.24 | 1004779.63 | 41° 54' 06.14" | 88° 15' 28.51" | 754.00 | 909.01 | 155.01 |

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1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| | | | |
|----------|----------------|----------|---------------|
| date | AUGUST 8, 2018 | detailed | W. JOHNSON |
| designed | W. JOHNSON | checked | S. MCLAUGHLIN |



DuPage County, Illinois

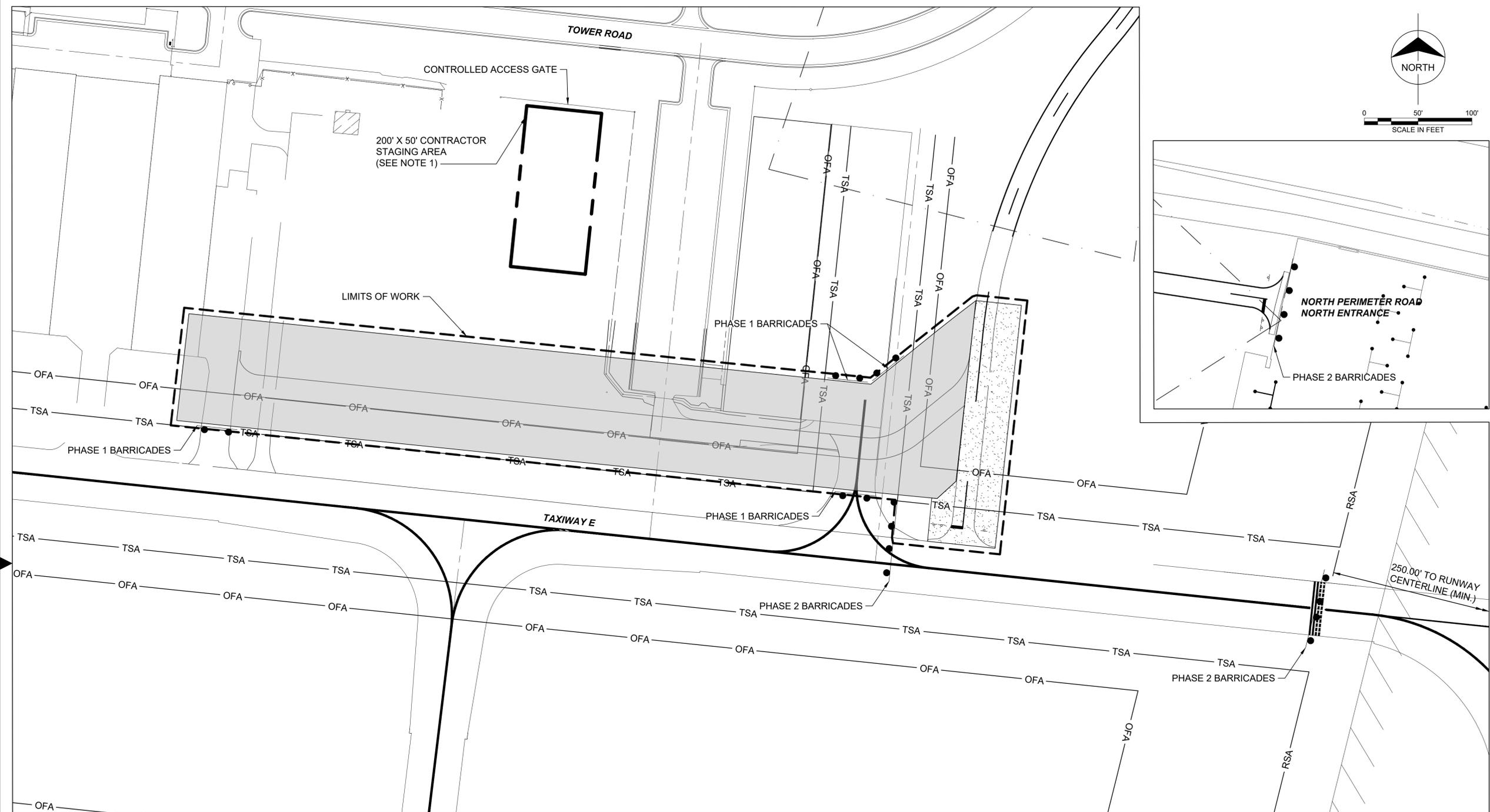
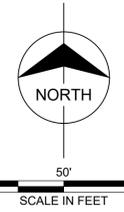
**CONSTRUCT NORTH SERVICE ROAD
EXTENSION PARALLEL TO TAXIWAY ECHO
CONSTRUCTION ACCESS, SAFETY
AND PHASING PLAN**

| | |
|-----------------------|----------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |

drawing **G-102** rev. -----

sheet 4 of 17 sheets
file

| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |



Millimeters
 Scale For Microfinishing
 Inches

BURNS MEDONNELL

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| | | | |
|----------|------------------|----------|---------------|
| date | SEPTMBER 5, 2018 | detailed | W. JOHNSON |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |

DUPAGE AIRPORT AUTHORITY

DuPage County, Illinois

CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO CONSTRUCTION ACCESS, SAFETY AND PHASING PLAN

| | |
|-----------------------|--------------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |
| drawing | rev. |
| G-103 | |
| sheet 5 | of 17 sheets |
| file | |

SAFETY & PHASING NARRATIVE

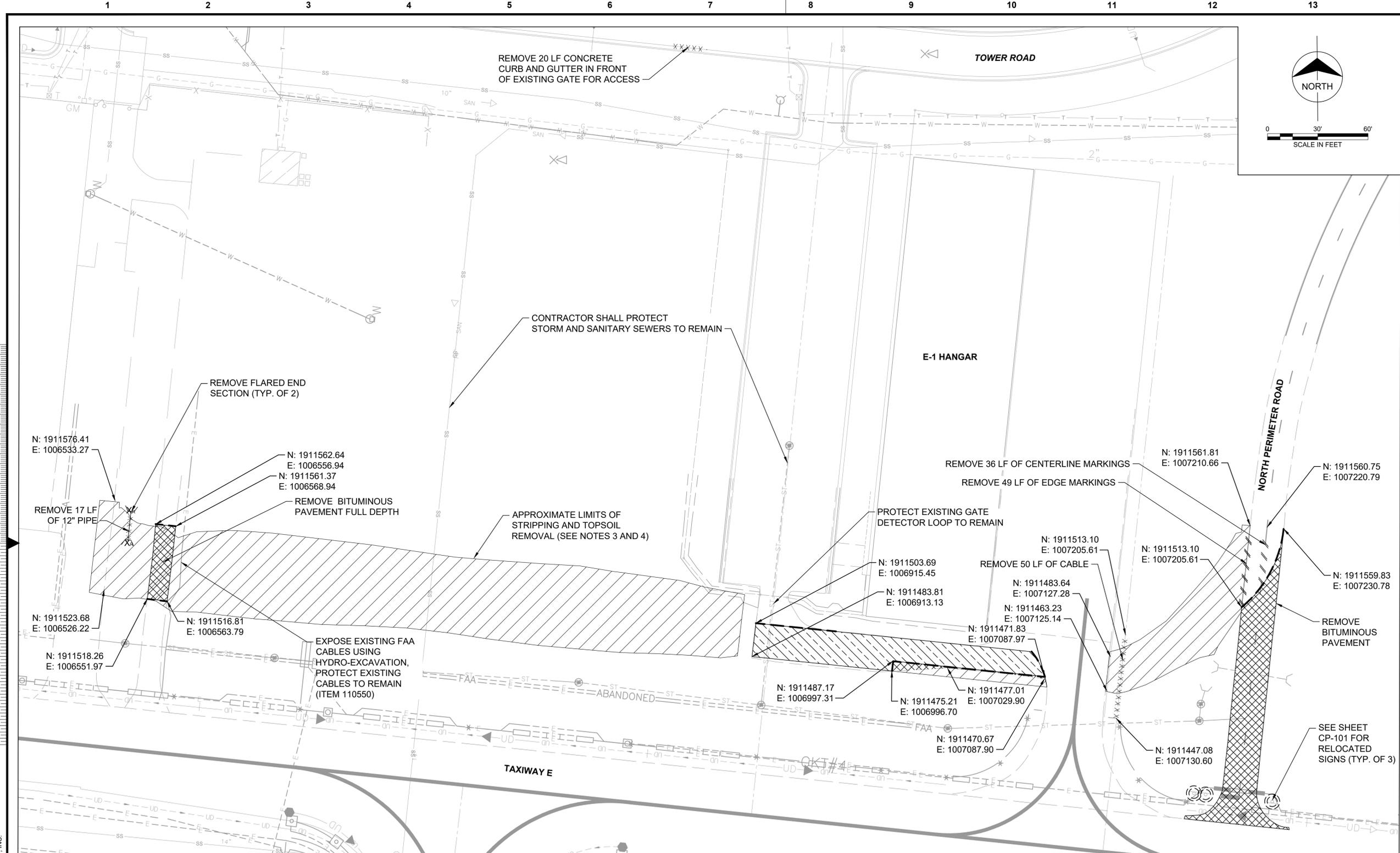
PHASE 1 - NO AIRFIELD PAVEMENTS CLOSED
 REQUEST NOTAM ADVISING REDUCED SPEEDS FOR CONSTRUCTION AREA (SEE NOTES 2 & 3)
 DURATION: 23 CALENDAR DAYS
 MAJOR WORK ITEMS:
 - PLACE AND MAINTAIN TRAFFIC CONTROL / REMOVE TRAFFIC CONTROL
 - INSTALL EROSION CONTROL
 - EARTHWORK
 - INSTALL DRAINAGE
 - SAWCUT REMOVE EXISTING PAVEMENT
 - AGGREGATE BASE INSTALLATION / SURFACE PAVING
 - PAVEMENT MARKING AND SIGNAGE
 - LANDSCAPING
 GENERAL SAFETY REQUIREMENTS:
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-101

PHASE 2 - TAXIWAY E CLOSED
 REQUEST NOTAM FOR TAXIWAY E CLOSURE (SEE NOTE 2)
 DURATION: 8 CALENDAR DAYS (INTERMITTENT CLOSURES, TO BE COORDINATED WITH DAA)
 MAJOR WORK ITEMS:
 - PLACE AND MAINTAIN TRAFFIC CONTROL / REMOVE TRAFFIC CONTROL
 - INSTALL EROSION CONTROL
 - SAWCUT AND REMOVE EXISTING PAVEMENT
 GENERAL SAFETY REQUIREMENTS:
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-101

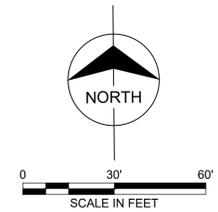
| TIME OF COMPLETION SCHEDULE | | | | | |
|-----------------------------|--------------------------|----|----|----|----|
| DESCRIPTION | DURATION (CALENDAR DAYS) | 10 | 20 | 30 | 40 |
| PHASE 1 | 23 | | | | |
| PHASE 2 | 8 | | | | |

- NOTES:**
- RESTORE ACCESS AND STAGING AREAS AT PROJECT COMPLETION. RESTORATION WILL NOT BE PAID FOR SEPARATELY.
 - CONTRACTOR SHALL NOTIFY AND THEN VERIFY WITH RESIDENT ENGINEER 72 HOURS IN ADVANCE AS TO THE NEED FOR NOTICES TO AIRMEN (NOTAM). NO RUNWAY, TAXIWAY, OR APRON OPERATIONS SHALL BE CLOSED OR THEIR OPERATIONS IMPACTED WITHOUT PRIOR APPROVAL FROM THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
 - CONTRACTOR TO FURNISH FLAGGERS TO DIRECT AND CONTROL CONSTRUCTION EQUIPMENT AND PERSONNEL BEYOND TAXIWAY E OFA FOR SAFE PASSAGE OF AIRCRAFT. FLAGGERS WILL NOT BE PAID FOR SEPARATELY.

- LEGEND:**
- PHASE 1 WORK LIMITS (SEE NOTE 3)
 - PHASE 2 WORK LIMITS
 - LOW PROFILE BARRICADES WITH PHASE INDICATOR
 - PART 77 APPROACH AND TRANSITIONAL SURFACE
 - TSA — OBJECT FREE AREA
 - OFA — OBJECT FREE AREA



| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
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Millimeters
 Scale For Microfining
 Inches

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 LICENSEE NO. 184-001310

| date | designed | checked | detailed |
|-----------------|------------|---------------|------------|
| AUGUST 07, 2018 | W. JOHNSON | S. MCLAUGHLIN | W. JOHNSON |

DUPAGE AIRPORT AUTHORITY
 DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
 EXTENSION PARALLEL TO TAXIWAY ECHO
 DEMOLITION PLAN**

| | |
|-----------------------|--------------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DJ084 |
| drawing | rev. |
| CD-101 | |
| sheet 6 | of 17 sheets |
| file | |

LEGEND:

- | | | | |
|------------|--------------------------------|------------------------|---|
| --- ST --- | EXISTING STORM SEWER | [Hatched Box] | TOPSOIL REMOVAL (SEE NOTES 3 AND 4) |
| --- SS --- | EXISTING SANITARY SEWER | [Cross-hatched Box] | REMOVE BITUMINOUS PAVEMENT (4" TYP.) |
| --- G --- | EXISTING GAS SEWER | [Diagonal Hatched Box] | BITUMINOUS PAVEMENT MILLING (1.5" TYP.) |
| --- W --- | EXISTING WATERMAIN | [Dotted Line] | UTILITY REMOVAL |
| --- UD --- | EXISTING UNDERDRAIN | [Dashed Line] | MARKING REMOVAL |
| --- E --- | EXISTING BURIED ELECTRIC CABLE | [X in Circle] | REMOVE STRUCTURE |
| --- T --- | EXISTING COMM DUCTBANK | [Dashed Line] | PAVEMENT SAWCUT |
| --- | EXISTING FENCE | | |
| ⊕ | EXISTING MANHOLE | | |
| ⊗ | SOIL BORING | | |
| ⊙ | SIGN RELOCATION | | |
| --- | EXISTING ELECTRICAL DUCT | | |

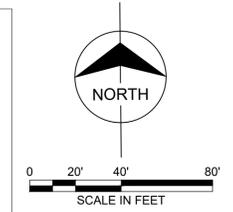
NOTES:

- CONTRACTOR SHALL TAKE CARE TO PROTECT ALL ITEMS TO REMAIN AND MUST REPAIR OR REPLACE ANY DAMAGED EQUIPMENT OR PROPERTY TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
- 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.
- TOPSOIL REMOVAL SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION. STRIPPING OF VEGETATION AND ROOT STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION.
- COORDINATE LIMITS OF STRIPPING AND TOPSOIL REMOVAL WITH GRADING LIMITS DEFINED ON THE GRADING PLANS, PROFILES AND CROSS SECTIONS.
- CONTRACTOR SHALL DISPOSE OF TOPSOIL SPOILS AND BITUMINOUS MILLING AT DESIGNATED STOCKPILES IDENTIFIED ON SHEET G-102.
- PAVEMENT SHALL BE SAWCUT AT LIMITS OF REMOVAL TO PROVIDE A CLEAN VERTICAL FACE AT LIMITS OF REMOVAL. SAWCUT SHALL BE INCIDENTAL TO THE ASPHALT MILLING AND PAVEMENT REMOVAL OPERATIONS.

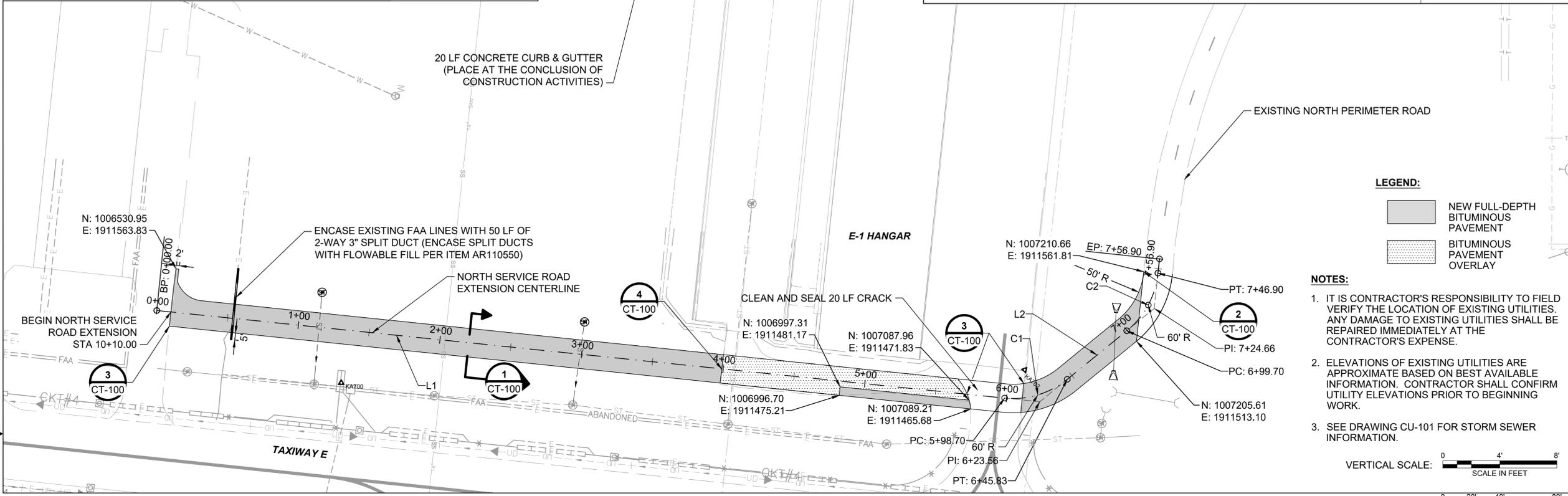
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| Extension | | | | | | |
|-----------|---------|--------|------------------------------------|----------------------|------------------------------------|------------------------------------|
| SEGMENT | LENGTH | RADIUS | CENTER | LINE/CHORD DIRECTION | START POINT / PC | END POINT / PT |
| L1 | 598.703 | | | S84° 07' 05.11"E | N: 1,911,534.64 E: 1,006,517.39 | N: 1,911,473.28 E: 1,007,112.94 |
| C1 | 47.124 | 60.000 | N: 1,911,532.97 E: 1,007,119.09 | N73° 22' 54.89"E | N: 1,911,473.28 E: 1,007,112.94 | N: 1,911,486.42 E: 1,007,156.94 |
| L2 | 53.875 | | | N50° 52' 54.89"E | N: 1,911,486.42 E: 1,007,156.94 | N: 1,911,520.41 E: 1,007,198.74 |
| C2 | 47.196 | 58.760 | N: 1,911,566.35 E: 1,007,162.11 | N28° 25' 15.82"E | N: 1,911,520.41 E: 1,007,198.74 | N: 1,911,560.81 E: 1,007,220.60 |

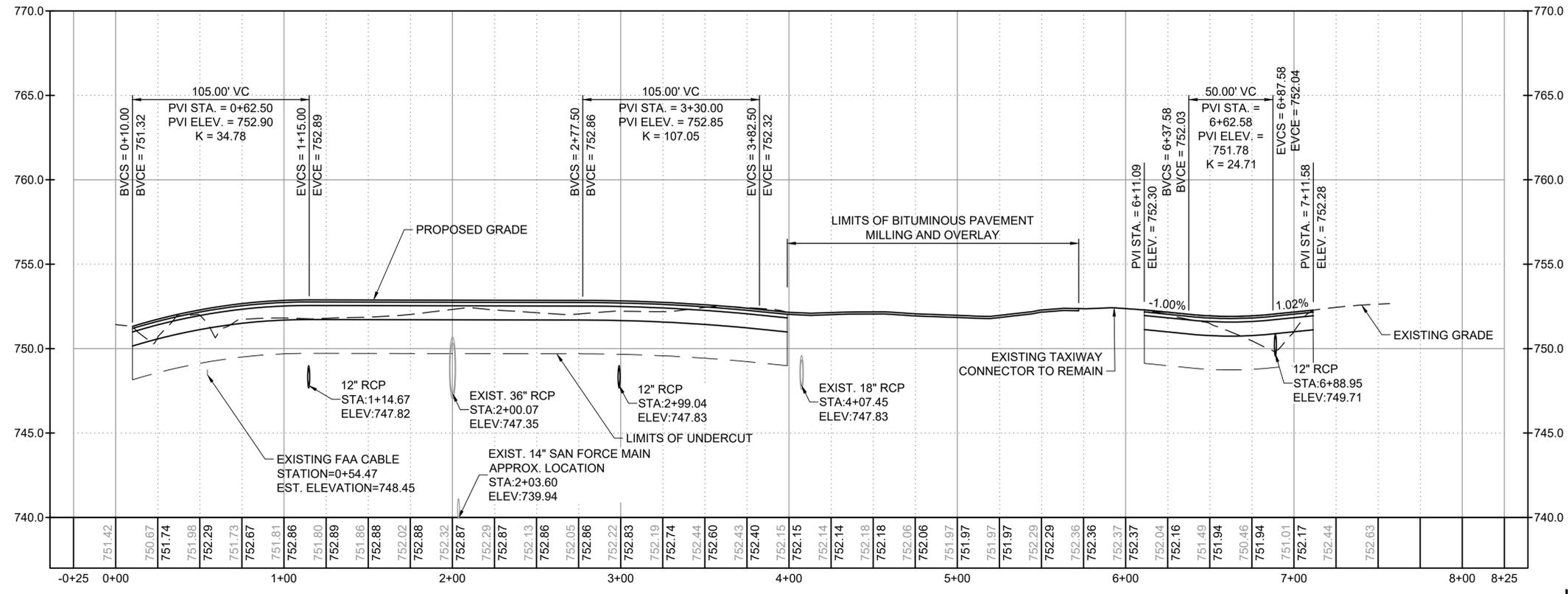
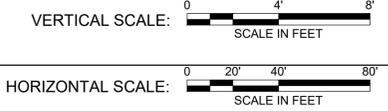
| CONTROL TABLE | | | | |
|---------------|--------------|--------------|-----------|--------------------------------|
| NAME | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 100 | 1913815.0510 | 1008012.9510 | 758.9200 | CP KA100 CHISEL CROSS |
| 102 | 1913258.9290 | 1007427.1130 | 754.1000 | CP KA102 IRON ROD WITH CAP |
| 104 | 1912246.9380 | 1007387.3570 | 756.1000 | CP KA104 CHISEL CROSS |
| 700 | 1911483.9730 | 1006646.9550 | 751.1070 | CP K700 CHISEL CROSS SIGN BASE |



| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |



Profile View of Extension



BURNS MEDONNELL
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 630-724-3200
 LICENSEE NO. 184-001310

| | | | |
|----------|----------------|----------|---------------|
| date | AUGUST 9, 2018 | detailed | J. YAHYA |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |

DUPAGE AIRPORT AUTHORITY
 DuPage County, Illinois

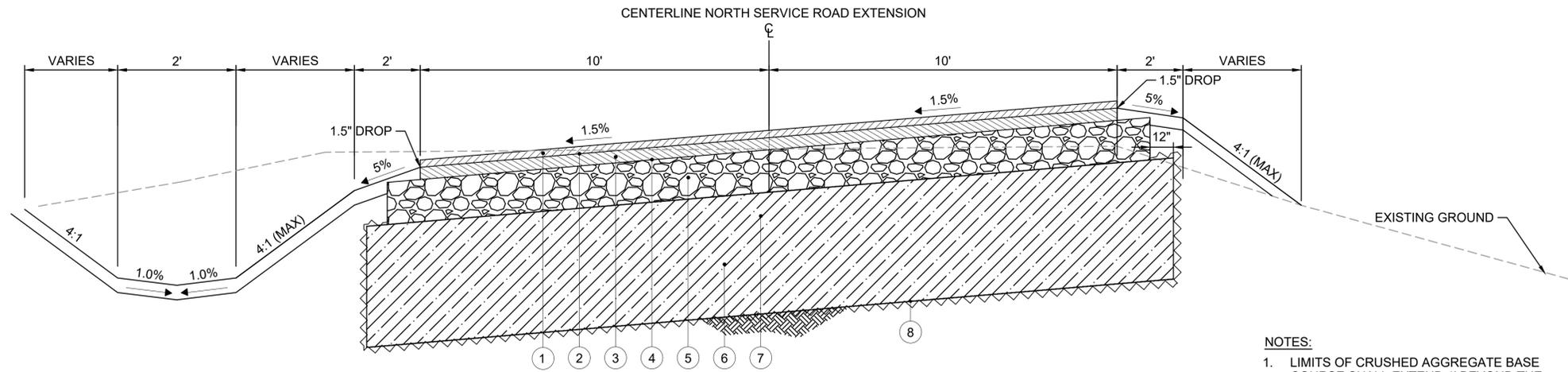
CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO ROADWAY PLAN AND PROFILE

| | |
|-----------------------|----------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |

| | | | |
|---------|---------------|------|-----------|
| drawing | CS-101 | rev. | ---- |
| sheet | 7 | of | 17 sheets |

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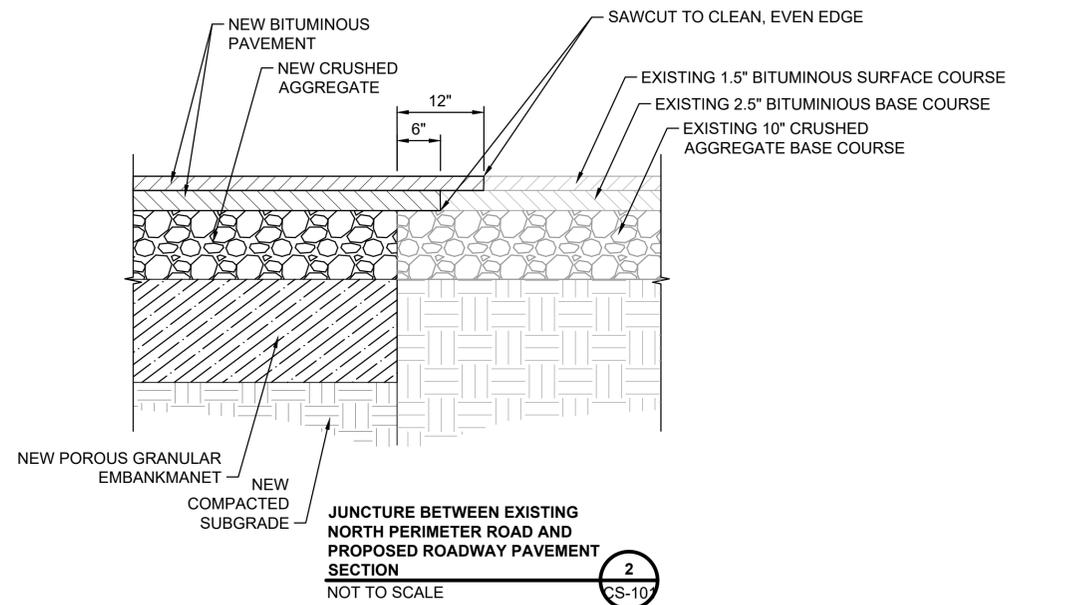


- LEGEND**
- ① 1.5" BITUMINOUS SURFACE COURSE (AR401610)
 - ② TACK COAT (AR603510)
 - ③ 2.5" BITUMINOUS BASE COURSE (AR403610)
 - ④ PRIME COAT (AR602510)
 - ⑤ 10" CRUSHED AGGREGATE BASE COURSE (AR209610)
 - ⑥ COMPACTED SUBGRADE
 - ⑦ 24" POROUS GRANULAR EMBANKMENT (AR152520) (SEE NOTE 2)
 - ⑧ NON-WOVEN GEOTEXTILE FABRIC (AR209600) (SEE NOTE 2)

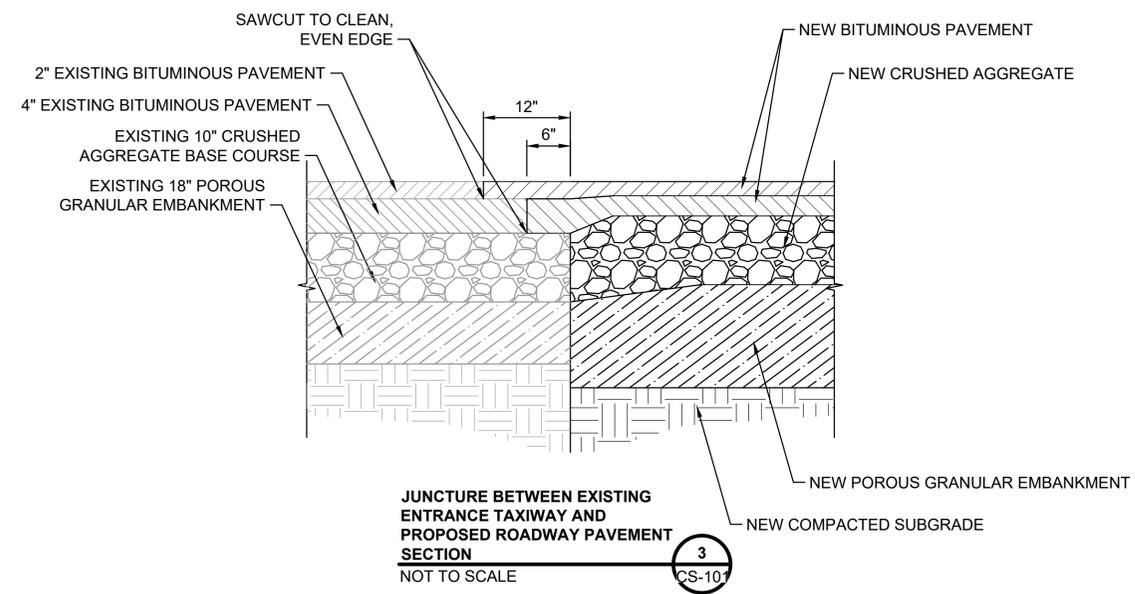
- NOTES:**
- LIMITS OF CRUSHED AGGREGATE BASE COURSE SHALL EXTEND 1' BEYOND THE EDGE OF PAVEMENT.
 - LIMITS OF PGE SHALL EXTEND 2' BEYOND THE EDGES OF PAVEMENT. THE ACTUAL LIMITS SHALL BE CONFIRMED BY THE ENGINEER.

PROPOSED TYPICAL SECTION - NORTH SERVICE ROAD EXTENSION
NOT TO SCALE

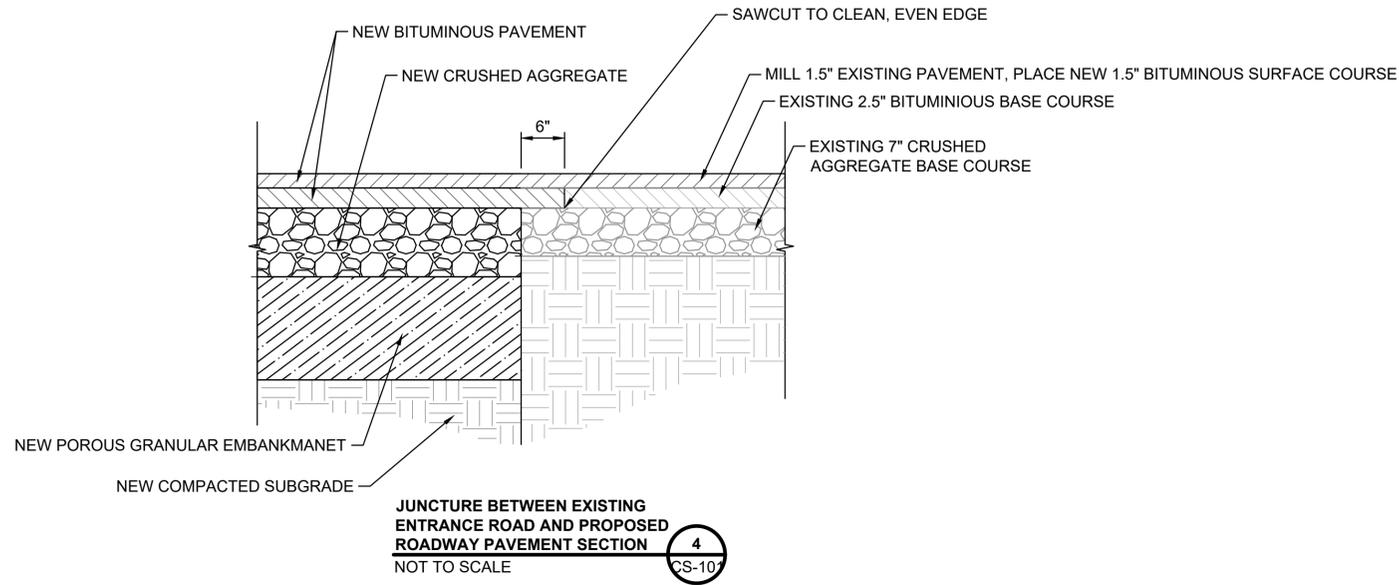
Scale For Microfinishing
Millimeters
Inches



JUNCTURE BETWEEN EXISTING NORTH PERIMETER ROAD AND PROPOSED ROADWAY PAVEMENT SECTION
NOT TO SCALE



JUNCTURE BETWEEN EXISTING ENTRANCE TAXIWAY AND PROPOSED ROADWAY PAVEMENT SECTION
NOT TO SCALE



JUNCTURE BETWEEN EXISTING ENTRANCE ROAD AND PROPOSED ROADWAY PAVEMENT SECTION
NOT TO SCALE

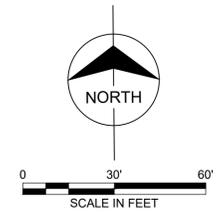
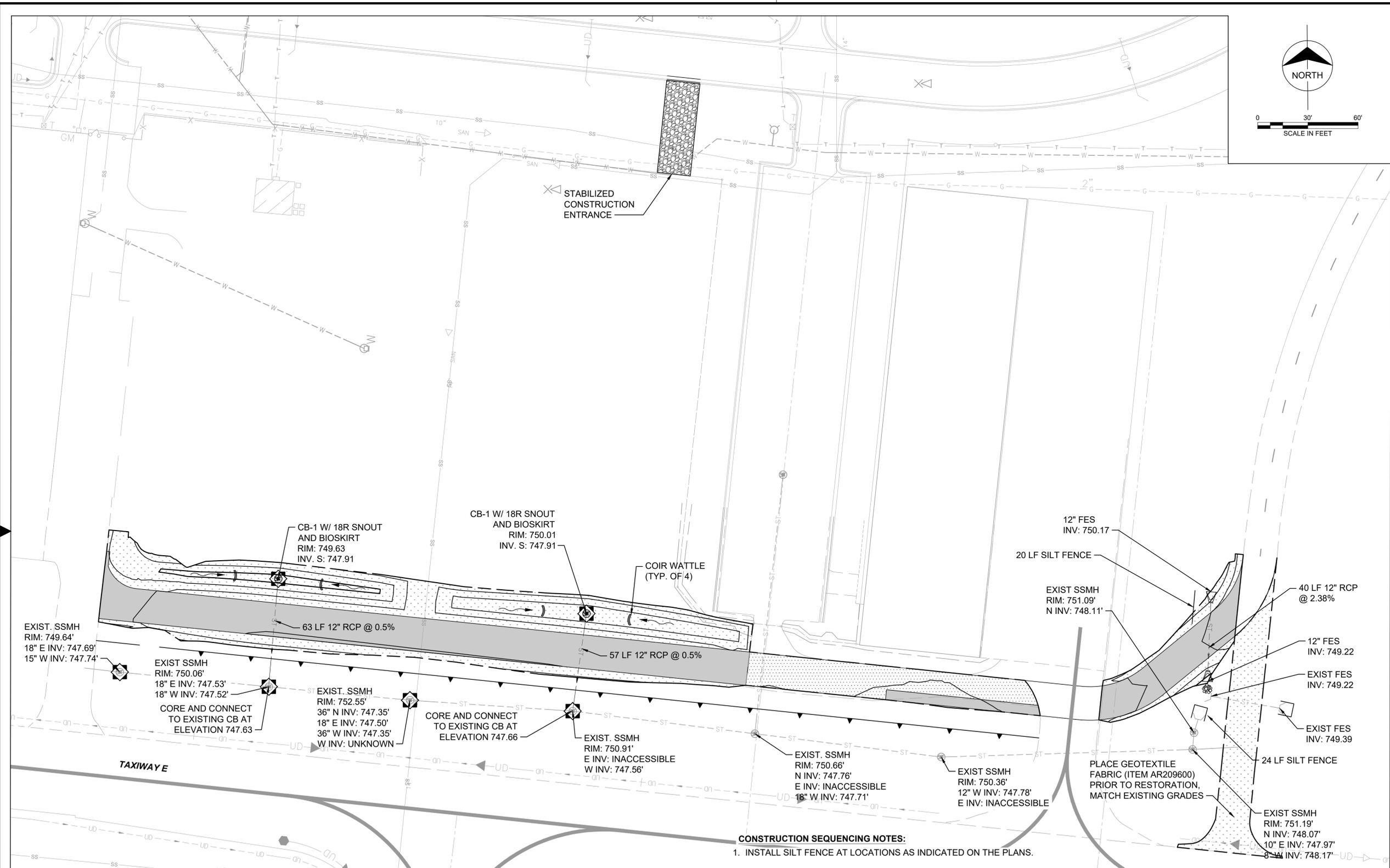
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DOWNERS GROVE, IL 60515
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LICENSEE NO. 184-001310

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| date | AUGUST 2, 2018 | detailed | J. YAHYA |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |

DUPAGE AIRPORT AUTHORITY
DuPage County, Illinois

CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO TYPICAL SECTION AND DETAILS

| | | | |
|-----------------------|----------|-----------------------|-----------|
| IL Proj. No. DPA-4564 | contract | BMcD Proj. No. 108644 | DU084 |
| drawing | CT-100 | rev. | ---- |
| sheet | 8 | of | 17 sheets |
| file | | | |



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| 11/16/18 | JY | SJM | | 100% SUBMITTAL |

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|----------|-----------------|----------|---------------|
| date | AUGUST 10, 2018 | detailed | W. JOHNSON |
| designed | W. JOHNSON | checked | S. MCLAUGHLIN |

DuPAGE AIRPORT AUTHORITY

DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
 EXTENSION PARALLEL TO TAXIWAY ECHO
 DRAINAGE AND SOIL EROSION
 SEDIMENT CONTROL PLAN**

| | | | |
|-----------------------|----------|-----------------------|-------|
| IL Proj. No. DPA-4564 | contract | BMcD Proj. No. 108644 | DU084 |
| drawing | | rev. | |
| CU-101 | | ---- | |
| sheet 10 | of 17 | sheets | |
| file | | | |

- NOTES:**
- 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.
 - 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.
 - 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 SEQUENCING NOTES:**
- INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
 - PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
 - CUT AND FILL SITE TO PLAN SUBGRADE.
 - CONSTRUCT UNDERGROUND IMPROVEMENTS, I.E. SANITARY SEWER WATERMAIN AND STORM SEWER**, ETC.
 - CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN.
 - COMPLETE CONSTRUCTION OF SITE WITH PERMANENT STABILIZATION.
 - REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
 - RESTORE CONSTRUCTION STAGING AND ACCESS AREAS.
- ** INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.

- LEGEND:**
- TEMPORARY SILT FENCE
 - PROPOSED SEEDING AND EROSION CONTROL BLANKET
 - DESIGNATED CONSTRUCTION ENTRANCE
 - PROPOSED CATCH BASIN
 - COIR WATTLE
 - INLET PROTECTION
 - SWALE DRAINAGE FLOW
 - RIP RAP

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| no. | date | by | ckd | description |
|----------|------|-----|----------------|-------------|
| 11/16/18 | JY | SJM | 100% SUBMITTAL | |

STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

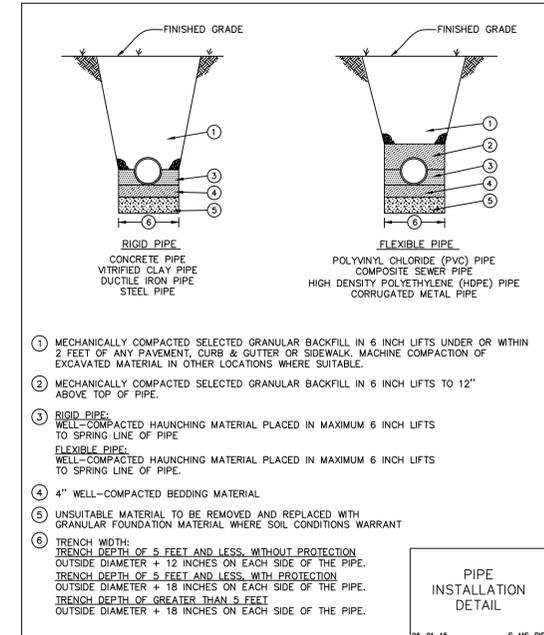
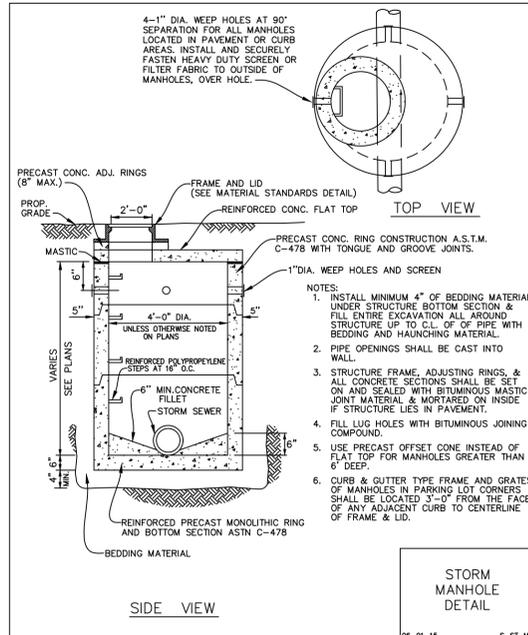
41-2.01 PROTECTION OF WATER MAIN AND WATER SERVICE LINES

41-2.01A GENERAL

Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

41-2.01B HORIZONTAL SEPARATION - WATER MAINS AND SEWERS

- Water mains shall be located at least ten (10) feet (3.1 m) horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.
- Water mains may be located closer than ten (10) feet (3.1 m) to a sewer line when:
 - local conditions prevent a lateral separation of ten (10) feet (3.1 m); and
 - the water main invert is at least eighteen (18) inches (460 mm) above the crown of the sewer; and
 - the water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- When it is impossible to meet (1) or (2) above, both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, prestressed concrete pipe, or PVC pipe equivalent to water main standards of construction. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling. See Standard Drawing No. 18.



MATERIAL STANDARDS

| ITEM | BRAND | PRODUCT |
|--|--|--------------------------------|
| FIRE HYDRANTS (TRAFFIC MODEL) | MUELLER SUPER CENTURION WATEROUS PACER | A-423 WB-67 |
| GATE VALVES (SPECIFY SIZE NON-RISING STEM, 2" NUT, M.A., OPEN LEFT) | MUELLER (SIZE) AMERICAN FLOW CONTROL | A-2360-20L SERIES 2500 |
| VALVE BOXES 3 PIECE | EAST JORDAN TYLER/UNION | SCREW ADJUSTING EXTENSION TYPE |
| CURB STOPS (SPECIFY SIZE) | MUELLER FORD | 300 BALL VALVE BALL VALVE |
| CORPORATION VALVE (SPECIFY SIZE) | MUELLER FORD | H-15000 FB600 (AWWA/CC THREAD) |
| MANHOLES/CATCHBASINS/INLETS IN OPEN AREAS AND PAVEMENT (SELF-SEALING LID WITH PROPER UTILITY MARKINGS) | NEENAH CLOSED LID OPEN LID *1 SWALES AND DITCHES | R-1772 R-2502 C R-4340 B |
| MANHOLES/CATCH BASINS/INLETS IN COMBINATION CURB & GUTTER (BICYCLE SAFE) | NEENAH ROLL/MOUNTABLE CURB B6.12 CURB | R-3501-D2A R-3281A *-3281-AL |
| WATER SERVICE SADDLES (ALL SERVICE SADDLES SHALL BE DOUBLE STRAP, BRONZE, NYLON COATED OR STAINLESS STEEL) | MUELLER FORD SMITH-BLAIR 3/4" & 1" | DR2S FS 303 # 317 |
| B-BOX (AT LEAST 1 1/4" TOP SECTION) AROUND PATTERN PLUG STYLE LID | FORD MUELLER | EA2 CURB BOX |

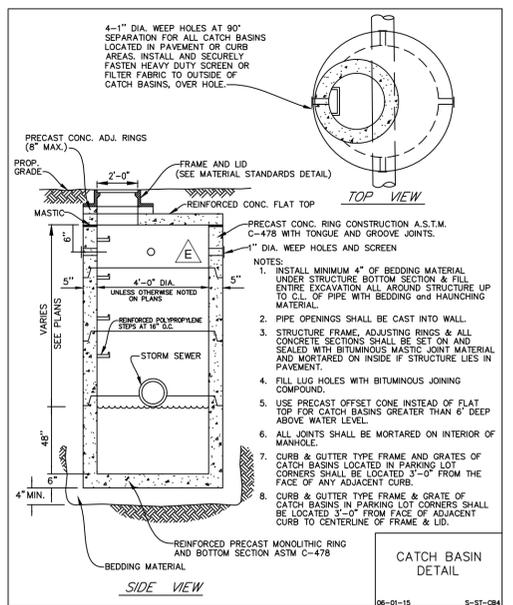
*1 WHEREVER STORMWATER COULD POSSIBLY ENTER STORM STRUCTURE

WATER AND SEWER SEPARATION REQUIREMENTS
NOT TO SCALE

STORM MANHOLE DETAIL
NOT TO SCALE

PIPE INSTALLATION DETAIL
NOT TO SCALE

MATERIAL STANDARDS
NOT TO SCALE

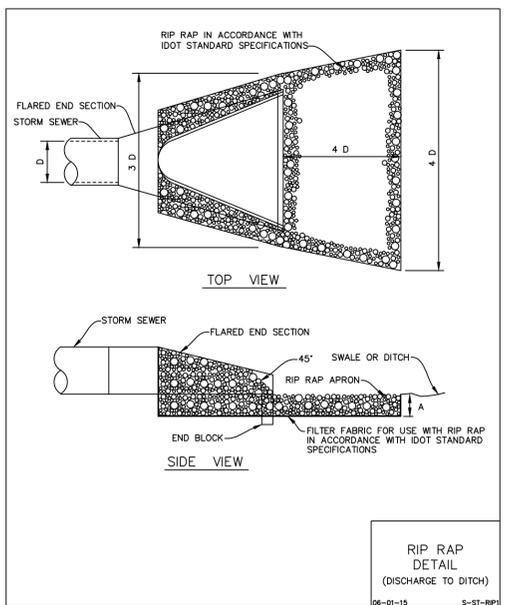
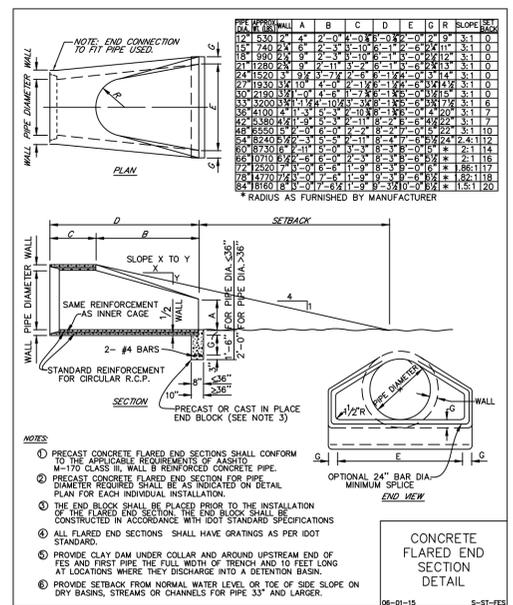


RIP-RAP

| PIPE DIAMETER (N.) | STONE RIP-RAP | | | | BEDDING | |
|--------------------|---------------------|------------------|------------------------|----------------------------|--------------------|------------------|
| | QUALITY DESIGNATION | GRADATION NUMBER | MINIMUM THICKNESS (N.) | MINIMUM LENGTH RANGE (FT.) | WEIGHT AVERAGE (#) | WEIGHT RANGE (#) |
| 12" | B | 3 | 8" | 4' | 1-50 | 10 |
| 15" | B | 3 | 8" | 5' | 1-50 | 10 |
| 18" | B | 4 | 16" | 6' | 1-150 | 40 |
| 21" | B | 4 | 16" | 7' | 1-150 | 40 |
| 24" | B | 4 | 16" | 8' | 1-150 | 40 |
| 27" | B | 4 | 16" | 9' | 1-150 | 40 |
| 30" | B | 4 | 16" | 10' | 1-150 | 40 |
| 36" | B | 5 | 22" | 12' | 3-400 | 90 |
| 42" | B | 5 | 22" | 14' | 3-400 | 90 |
| 48" | B | 6 | 26" | 16' | 6-600 | 170 |
| 54" | B | 6 | 26" | 18' | 6-600 | 170 |
| 60" | B | 6 | 26" | 20' | 6-600 | 170 |
| 72" | B | 6 | 26" | 24' | 6-600 | 170 |

NOTE:

- FOR PIPE LARGER THAN 72" A SPECIAL DESIGN OF RIP-RAP OR APRON IS REQUIRED.
- REFER TO I.D.O.T. SPECIFICATIONS AND STANDARDS FOR BEDDING GRADATION.



CATCH BASIN DETAIL
NOT TO SCALE

STONE RIP RAP DETAIL
NOT TO SCALE

CONCRETE FLARED END SECTION DETAIL
NOT TO SCALE

RIP RAP DETAIL
NOT TO SCALE

BURNS MEDONNELL

1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| | | | |
|----------|----------------|----------|---------------|
| date | AUGUST 6, 2018 | detailed | W. JOHNSON |
| designed | W. JOHNSON | checked | S. MCLAUGHLIN |

DuPAGE AIRPORT AUTHORITY

DuPage County, Illinois

CONSTRUCT NORTH SERVICE ROAD EXTENSION PARALLEL TO TAXIWAY ECHO DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS

IL Proj. No. DPA-4564 contract
BMcD Proj. No. 108644 DU084

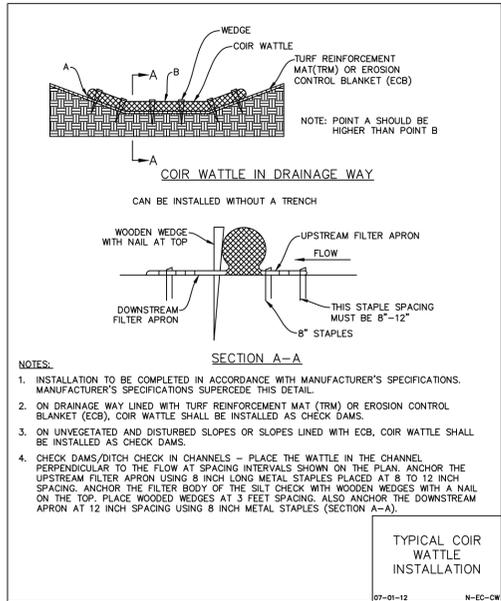
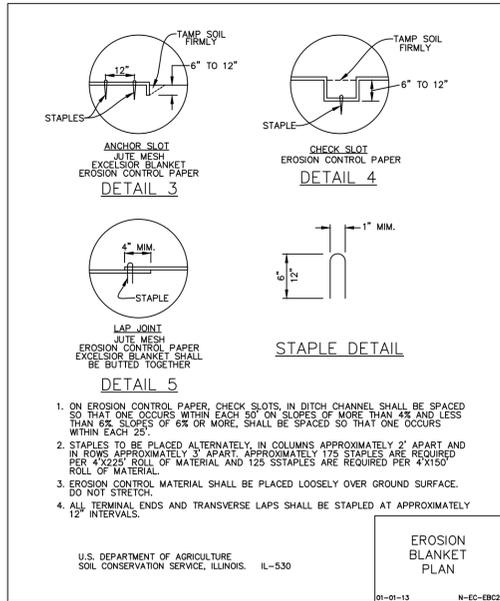
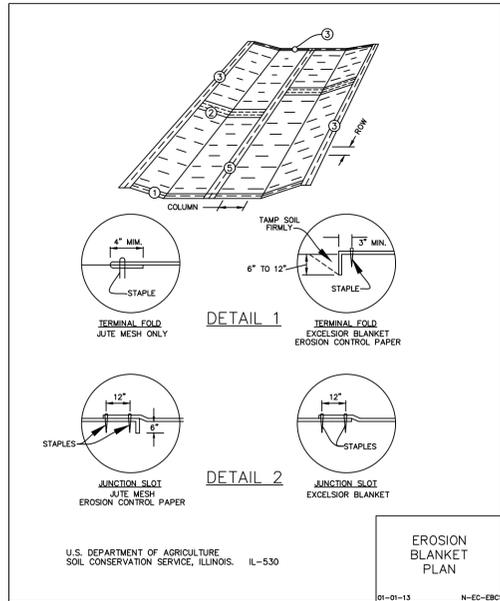
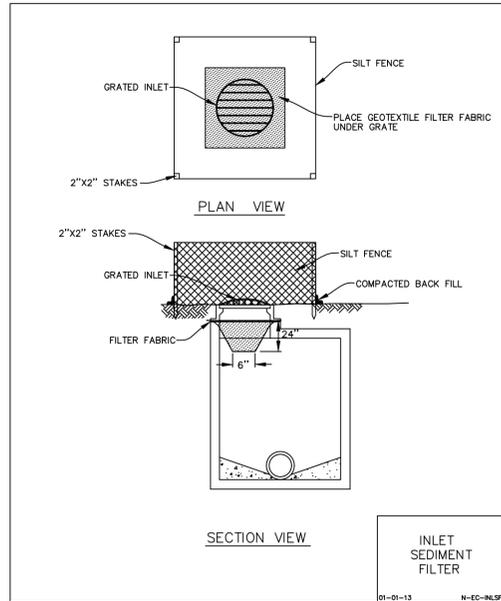
drawing rev.

CU-201 - - - -

sheet 11 of 17 sheets
file

Scale For Microfining
Millimeters
Inches
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| no. | date | by | ckd | description |
|----------|------|-----|------|-------------|
| 11/16/18 | JY | SJM | 100% | SUBMITTAL |

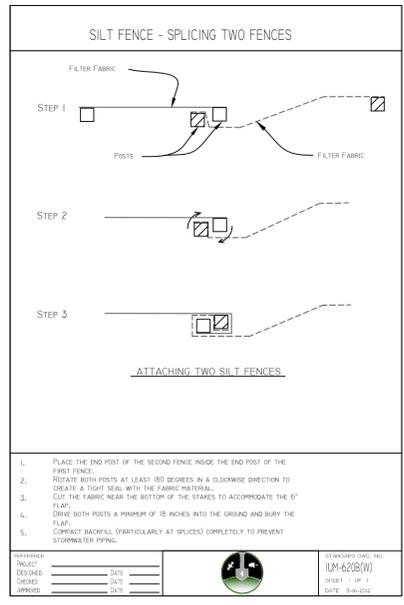
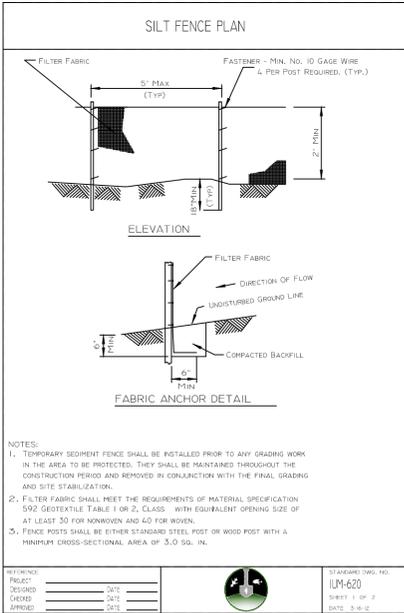


INLET SEDIMENT FILTER
NOT TO SCALE

EROSION BLANKET PLAN (1 OF 2)
NOT TO SCALE

EROSION BLANKET PLAN (2 OF 2)
NOT TO SCALE

TYPICAL COIR WATTLE INSTALLATION
NOT TO SCALE



SILT FENCE PLAN
NOT TO SCALE

SILT FENCE - SPLICING TWO FENCES
NOT TO SCALE

- SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:**
- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL".
 - MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
 - THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
 - INSTALL ALL PERIMETER SILT FENCING PRIOR TO ANY CLEARING OR GRADING. ONSITE SEDIMENT CONTROL MEASURES AS SHOWN AND SPECIFIED BY THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STRIPPING, EXCAVATION OR FILLING ACTIVITIES ON THE SITE.
 - STORM WATERS FALLING ON THE ENTIRE SITE SHALL BE DIVERTED INTO THE DETENTION SWALES, PRIOR TO BEGINNING MASS EXCAVATION, THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, SEDIMENTATION TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY AND CONVEY THEM TO THE DETENTION SWALES.
 - DISTURBED AREA SHALL BE STABILIZED BY SEEDING AT A MINIMUM, WITHIN SEVEN (7) DAYS OF COMPLETION OF DISTURBANCE UNLESS THE AREA WILL BE DISTURBED WITHIN FOURTEEN (14) DAYS AND GRASS SOWN AS NECESSARY TO RE- ESTABLISH VEGETATION FOR CONTROL OF SILTATION AND SOIL EROSION.
 - TEMPORARY SEED MIXTURE SHALL BE APPLIED AT 64 LBS/ACRE.
 - INLET PROTECTION SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE.
 - TOPSOIL STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION FOR EROSION CONTROL UNLESS THEY WILL BE DISTURBED WITHIN FOURTEEN (14) CALENDAR DAYS. ALL SOIL STORAGE PILES SHALL BE PROTECTED FROM EROSION WITH SILT FENCE ON THE DOWN SLOPE SIDE OF THE PILES.
 - DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO DETENTION SWALES. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
 - WATER PUMPED DURING CONSTRUCTION OPERATION SHALL BE FILTERED.
 - DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPERSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROVIDE A UNIFORM RATE OF APPLICATION.
 - TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED, ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADWAYS. ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
 - ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
 - OVERLAND FLOW SHALL BE DIRECTED TO THE DETENTION SWALES PRIOR TO LEAVING THE SITE.
 - THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.
 - ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.

BURNS MEDONNELL

1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| | | | |
|----------|----------------|----------|---------------|
| date | AUGUST 6, 2018 | detailed | W. JOHNSON |
| designed | W. JOHNSON | checked | S. MCLAUGHLIN |

DUPAGE AIRPORT AUTHORITY

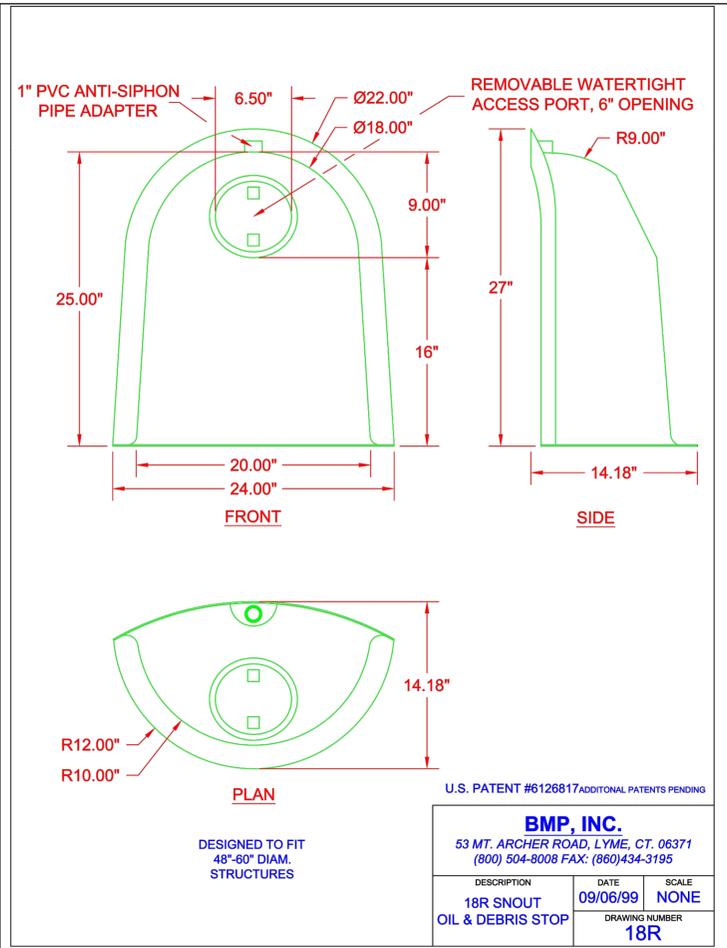
DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
EXTENSION PARALLEL TO TAXIWAY ECHO
DRAINAGE, SOIL EROSION
SEDIMENT CONTROL DETAILS**

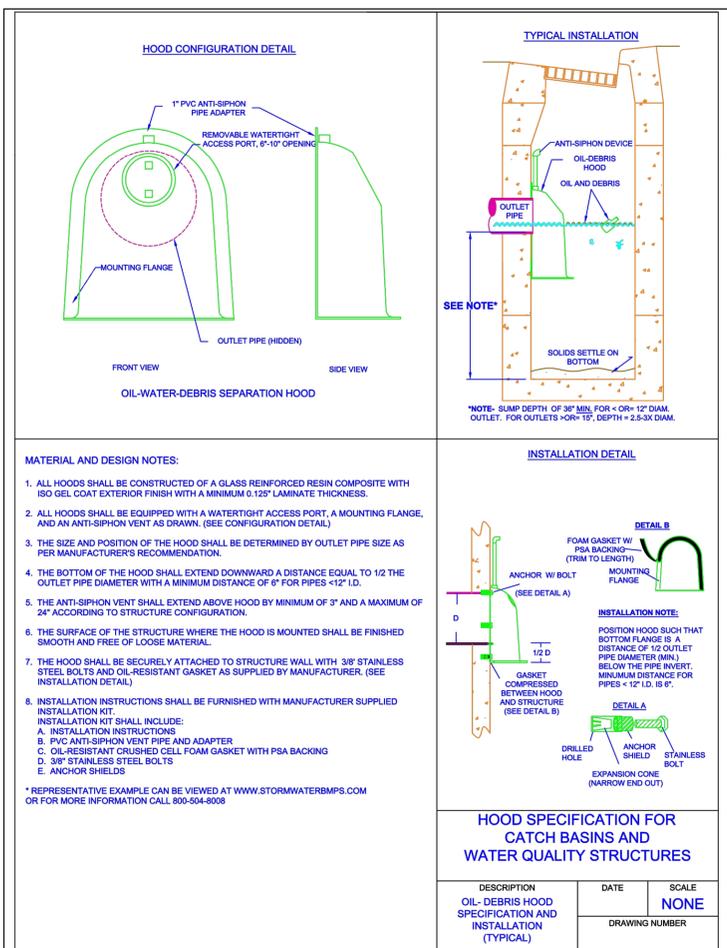
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|-----------------------|--------------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |
| drawing | rev. |
| CU-202 | |
| sheet 12 | of 17 sheets |
| file | |

Scale For Microfinishing
Millimeters
Inches

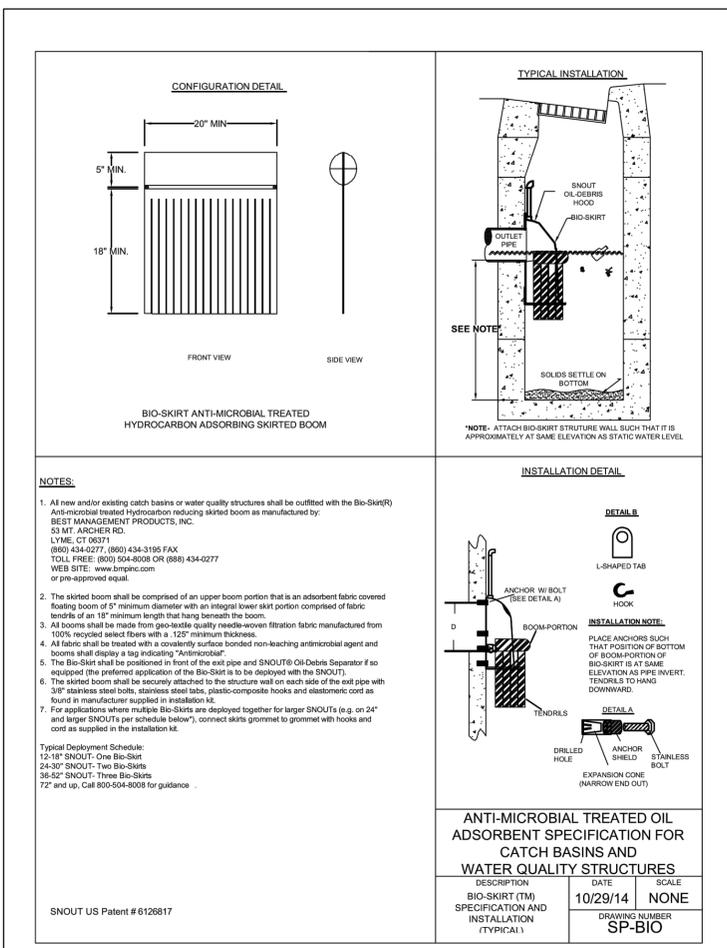
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18R SNOUT OIL & DEBRIS STOP
NOT TO SCALE



HOOD SPECIFICATION
NOT TO SCALE



BIO-SKIRT SPECIFICATION
NOT TO SCALE

| no. | date | by | ckd | description |
|----------|------|-----|------|-------------|
| 11/16/18 | JY | SJM | 100% | SUBMITTAL |

Scale For Microfinishing
Inches
Millimeters



Contractor Certification Statement

Prior to conducting any professional services at the site covered by this contract, the Contractor and every subcontractor must complete and return to the Resident Engineer the following certification. A separate certification must be submitted by each firm. Attach to this certification all items required by Section II.G of the Storm Water Pollution Prevention Plan (SWPPP) which will be handled by the Contractors/subcontractor completing this form.

| | | |
|----------------|---------------|-----------------|
| Route | Marked Route | Section |
| Project Number | County | Contract Number |
| DPA-4564 | DuPage County | |

This certification statement is a part of SWPPP for the project described above, in accordance with the General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the Permit No. ILR10 that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in SWPPP for the above mentioned project; I have received copies of all appropriate maintenance procedures; and, I have provided all documentation required to be in compliance with the Permit ILR10 and SWPPP and will provide timely updates to these documents as necessary.

Contractor
 Sub-Contractor

| | |
|----------------|----------------|
| Print Name | Signature |
| Title | Date |
| Name of Firm | Telephone |
| Street Address | City/State/Zip |

Items which the Contractor/subcontractor will be responsible for as required in Section II.G. of SWPPP:

IDOT BDE SWPPP SHEET
NOT TO SCALE



1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| | |
|----------------|---------------|
| date | detailed |
| AUGUST 6, 2018 | W. JOHNSON |
| designed | checked |
| W. JOHNSON | S. MCLAUGHLIN |



DuPAGE AIRPORT AUTHORITY

DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
EXTENSION PARALLEL TO TAXIWAY ECHO
DRAINAGE, SOIL EROSION
SEDIMENT CONTROL DETAILS**

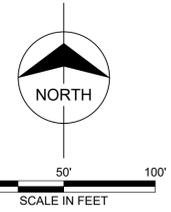
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| BMcD Proj. No. 108644 | DU084 |

drawing **CU-203** rev. -----

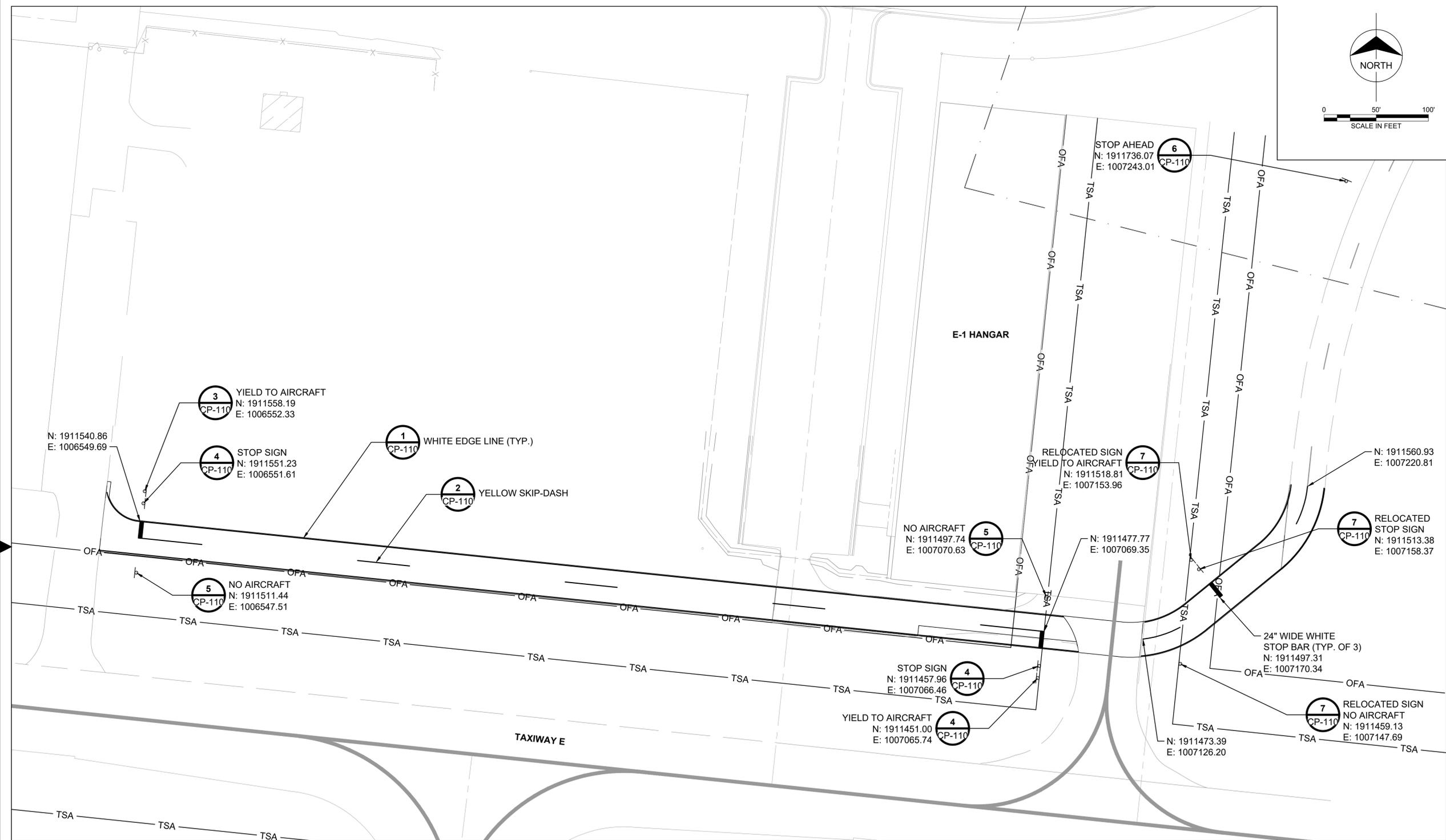
sheet 13 of 17 sheets
file

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| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |



Millimeters
 Scale For Microfinishing
 Inches



BURNS MEDONNELL
 1431 OPUS PLACE
 DOWNERS GROVE, IL 60515
 630-724-3200
 LICENSEE NO. 184-001310

| | | | |
|----------|-----------------|----------|---------------|
| date | OCTOBER 1, 2018 | detailed | W. JOHNSON |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |

DUPAGE AIRPORT AUTHORITY
 DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
 EXTENSION PARALLEL TO TAXIWAY ECHO
 PAVEMENT MARKING AND
 SIGNAGE PLAN**

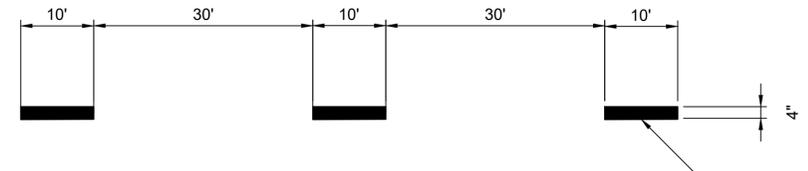
| | |
|-----------------------|--------------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |
| drawing | rev. |
| CP-101 — — — — | |
| sheet 14 | of 17 sheets |
| file | |

NOTES:
 1. SEE DRAWING CS-101 FOR CENTERLINE LAYOUT INFORMATION.

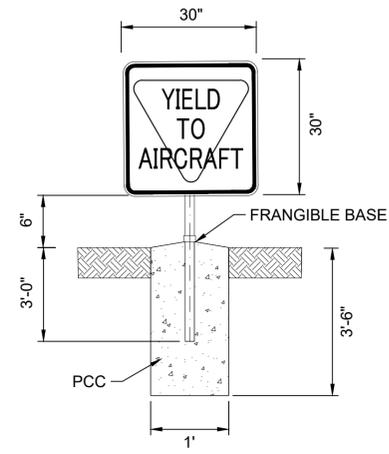
| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |



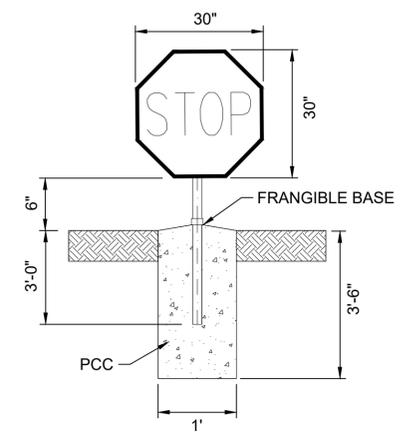
WHITE EDGE LINE
NOT TO SCALE



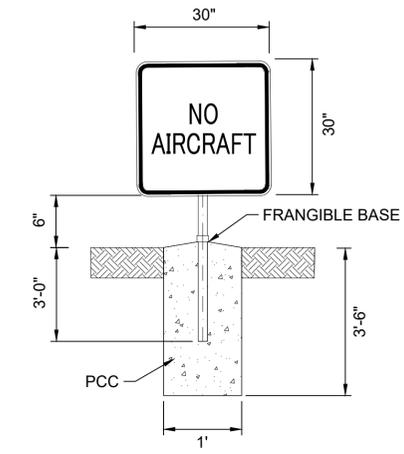
YELLOW SKIP-DASH
NOT TO SCALE



YIELD TO AIRCRAFT SIGN
NOT TO SCALE



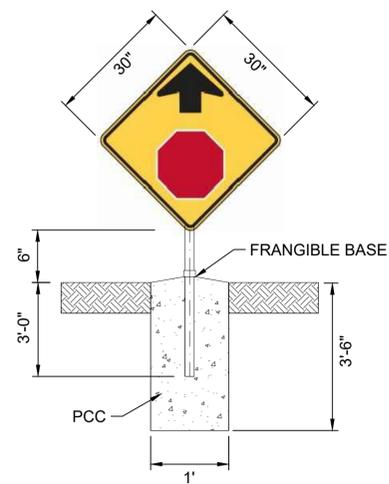
STOP SIGN
NOT TO SCALE



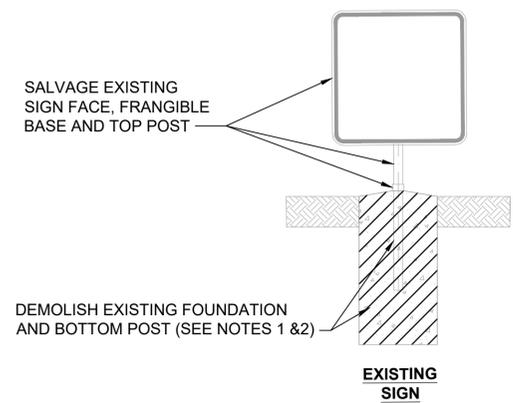
NO AIRCRAFT SIGN
NOT TO SCALE



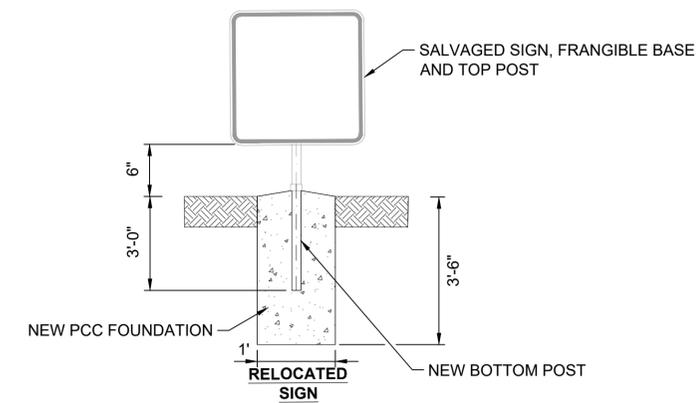
REVERSE



STOP AHEAD
NOT TO SCALE



SIGNAGE RELOCATION DETAIL
NOT TO SCALE



RELOCATION NOTES:

- CONTRACTOR SHALL DISPOSE OF DEMOLISHED SIGNAGE FOUNDATIONS IN ACCORDANCE WITH LOCAL LAWS AT NO ADDITIONAL COSTS TO THE CONTRACT.
- BACKFILL VOIDS WITH CRUSHED STONE AND TOP OF WITH 4" OF TOPSOIL AND SEED.

NOTE:
1. SEE SPECIAL PROVISION 910 FOR ADDITIONAL REQUIREMENTS.

Scale For Microfilming
Millimeters
Inches

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LICENSEE NO. 184-001310

| | |
|----------------|---------------|
| date | detailed |
| AUGUST 8, 2018 | W. JOHNSON |
| designed | checked |
| W. JOHNSON | S. MCLAUGHLIN |



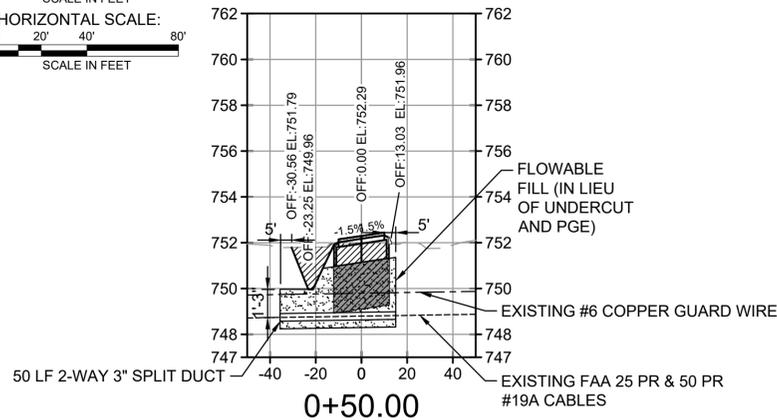
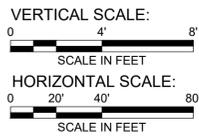
DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
EXTENSION PARALLEL TO TAXIWAY ECHO
PAVEMENT MARKING AND
SIGNAGE DETAILS**

| | |
|-----------------------|----------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |

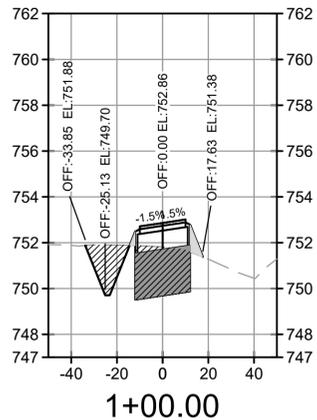
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| sheet 15 | of 17 | sheets |
|----------|-------|--------|



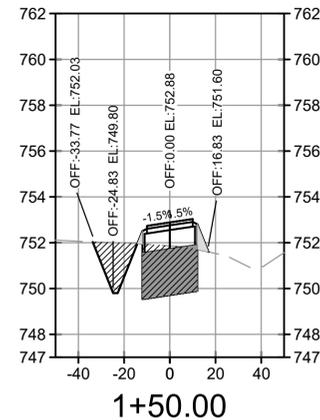
| MATERIAL(S) AT STATION 0+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 86.92 | 0 | 0 |
| FILL | 0.13 | 0 | 0 |

| MATERIAL(S) AT STATION 0+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 0 | 0 |



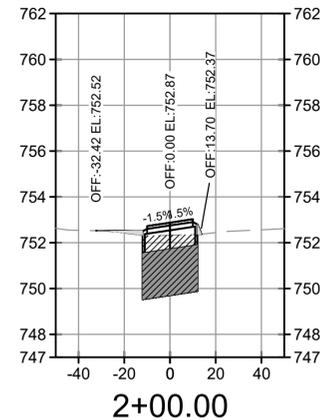
| MATERIAL(S) AT STATION 1+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 73.89 | 149 | 149 |
| FILL | 4.08 | 4 | 4 |

| MATERIAL(S) AT STATION 1+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 89 |



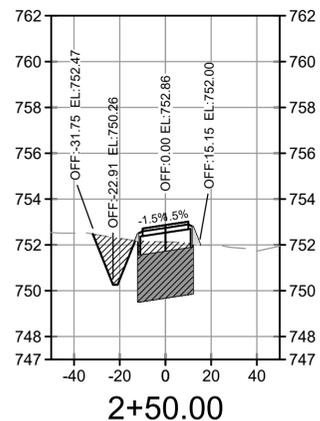
| MATERIAL(S) AT STATION 1+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 74.94 | 138 | 287 |
| FILL | 3.29 | 7 | 11 |

| MATERIAL(S) AT STATION 1+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 178 |



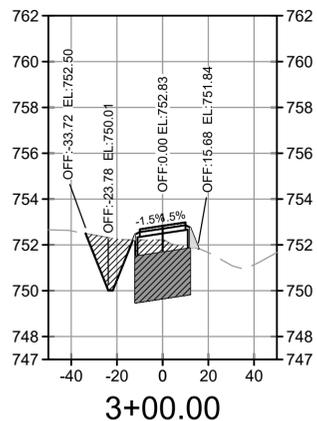
| MATERIAL(S) AT STATION 2+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 62.80 | 128 | 414 |
| FILL | 1.66 | 5 | 15 |

| MATERIAL(S) AT STATION 2+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 267 |



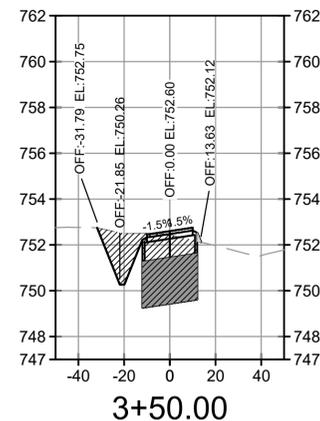
| MATERIAL(S) AT STATION 2+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 79.25 | 132 | 546 |
| FILL | 1.39 | 3 | 18 |

| MATERIAL(S) AT STATION 2+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 356 |



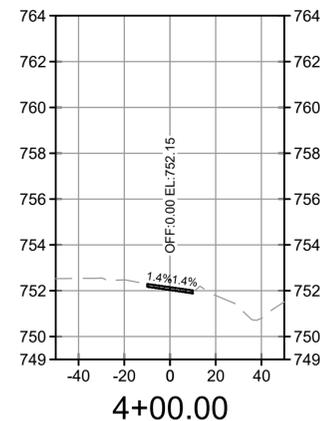
| MATERIAL(S) AT STATION 3+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 84.88 | 152 | 698 |
| FILL | 1.66 | 3 | 21 |

| MATERIAL(S) AT STATION 3+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 444 |



| MATERIAL(S) AT STATION 3+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 96.53 | 168 | 866 |
| FILL | 0.30 | 2 | 23 |

| MATERIAL(S) AT STATION 3+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 533 |

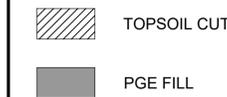


| MATERIAL(S) AT STATION 4+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 2.50 | 92 | 957 |
| FILL | 0.00 | 0 | 23 |

| MATERIAL(S) AT STATION 4+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 0.00 | 44 | 578 |

| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |

LEGEND:



NOTES:

- THE EXISTING TOPSOIL DEPTH VARIES WITHIN THE LIMITS OF WORK. TOPSOIL STRIPPING DEPTH WILL BE DRIVEN BY THE DEPTH OF SUBGRADE.
- EXCESS MATERIAL GENERATED FROM EARTHWORK OPERATIONS WILL BE RE-USED ONSITE TO RESTORE AREAS OF PAVEMENT DEMOLITION TO EXISTING GRADES.
- MATERIAL QUANTITIES DEPICTED ON THIS SHEET WILL BE PAID UNDER ITEM AR152410 UNCLASSIFIED EXCAVATION AND ITEM AR152520 UNDERCUT. THE EXCAVATION VOLUME ITEM REQUIRED FOR UNDERCUT IS TO BE PAID FOR UNDER ITEM AR152520. NO ADDITIONAL PAYMENT WILL BE MADE FOR RE-SPREADING EXCAVATED MATERIAL.



1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| date | detailed |
|-----------------|---------------|
| OCTOBER 6, 2018 | J. YAHYA |
| designed | checked |
| J. YAHYA | S. MCLAUGHLIN |

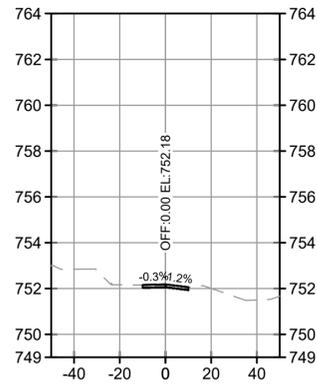
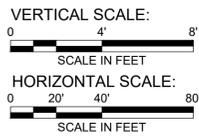


DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
EXTENSION PARALLEL TO TAXIWAY ECHO
CROSS SECTIONS**

| IL Proj. No. | DPA-4564 | contract |
|----------------|----------|----------|
| BMcD Proj. No. | 108644 | DU084 |
| drawing | rev. | |
| CX-101 | ---- | |
| sheet 16 | of 17 | sheets |
| file | | |

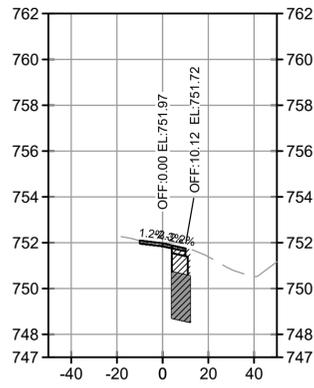
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4+50.00

| MATERIAL(S) AT STATION 4+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 0.00 | 2 | 960 |
| FILL | 0.00 | 0 | 23 |

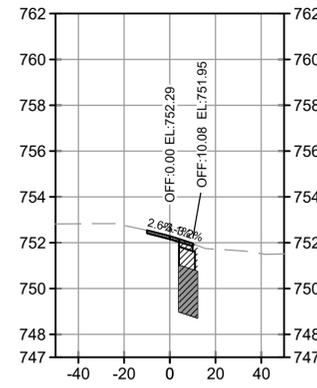
| MATERIAL(S) AT STATION 4+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 0.00 | 0 | 578 |



5+00.00

| MATERIAL(S) AT STATION 5+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 25.17 | 23 | 983 |
| FILL | 0.00 | 0 | 23 |

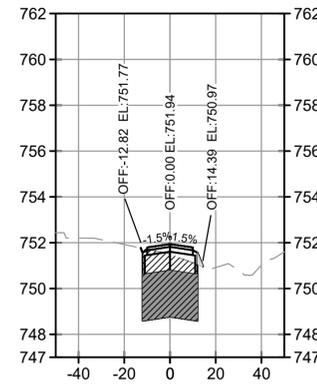
| MATERIAL(S) AT STATION 5+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 16.00 | 15 | 593 |



5+50.00

| MATERIAL(S) AT STATION 5+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 25.25 | 47 | 1030 |
| FILL | 0.00 | 0 | 23 |

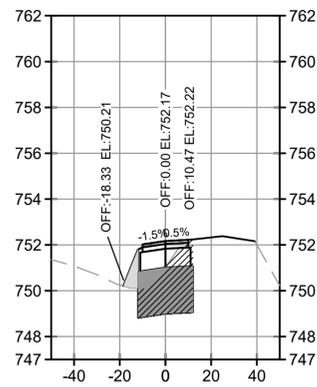
| MATERIAL(S) AT STATION 5+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 16.00 | 30 | 622 |



6+50.00

| MATERIAL(S) AT STATION 6+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 66.41 | 61 | 1114 |
| FILL | 0.61 | 1 | 24 |

| MATERIAL(S) AT STATION 6+50.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 44 | 682 |



7+00.00

| MATERIAL(S) AT STATION 7+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| CUT | 50.93 | 109 | 1223 |
| FILL | 5.46 | 6 | 29 |

| MATERIAL(S) AT STATION 7+00.00 | | | |
|--------------------------------|-----------|-----------|----------------|
| MATERIAL | AREA (SF) | VOL. (CY) | CUM. VOL. (CY) |
| UNDERCUT / PGE | 48.00 | 89 | 770 |

| no. | date | by | ckd | description |
|----------|------|-----|-----|----------------|
| 11/16/18 | JY | SJM | | 100% SUBMITTAL |

LEGEND:

- TOPSOIL CUT
- PGE FILL

NOTES:

1. THE EXISTING TOPSOIL DEPTH VARIES WITHIN THE LIMITS OF WORK. TOPSOIL STRIPPING DEPTH WILL BE DRIVEN BY THE DEPTH OF SUBGRADE.
2. EXCESS MATERIAL GENERATED FROM EARTHWORK OPERATIONS WILL BE RE-USED ONSITE TO RESTORE AREAS OF PAVEMENT DEMOLITION TO EXISTING GRADES.
3. MATERIAL QUANTITIES DEPICTED ON THIS SHEET WILL BE PAID UNDER ITEM AR152410 UNCLASSIFIED EXCAVATION AND ITEM AR152520 UNDERCUT. THE EXCAVATION VOLUME ITEM REQUIRED FOR UNDERCUT IS TO BE PAID FOR UNDER ITEM AR152520. NO ADDITIONAL PAYMENT WILL BE MADE FOR RE-SPREADING EXCAVATED MATERIAL.



1431 OPUS PLACE
DOWNERS GROVE, IL 60515
630-724-3200
LICENSEE NO. 184-001310

| | | | |
|----------|-----------------|----------|---------------|
| date | OCTOBER 6, 2018 | detailed | J. YAHYA |
| designed | J. YAHYA | checked | S. MCLAUGHLIN |



DuPage County, Illinois

**CONSTRUCT NORTH SERVICE ROAD
EXTENSION PARALLEL TO TAXIWAY ECHO
CROSS SECTIONS**

| | |
|-----------------------|--------------|
| IL Proj. No. DPA-4564 | contract |
| BMcD Proj. No. 108644 | DU084 |
| drawing | rev. |
| CX-102 — — — — | |
| sheet 17 | of 17 sheets |
| file | |

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Scale For Microfining

Millimeters

Inches