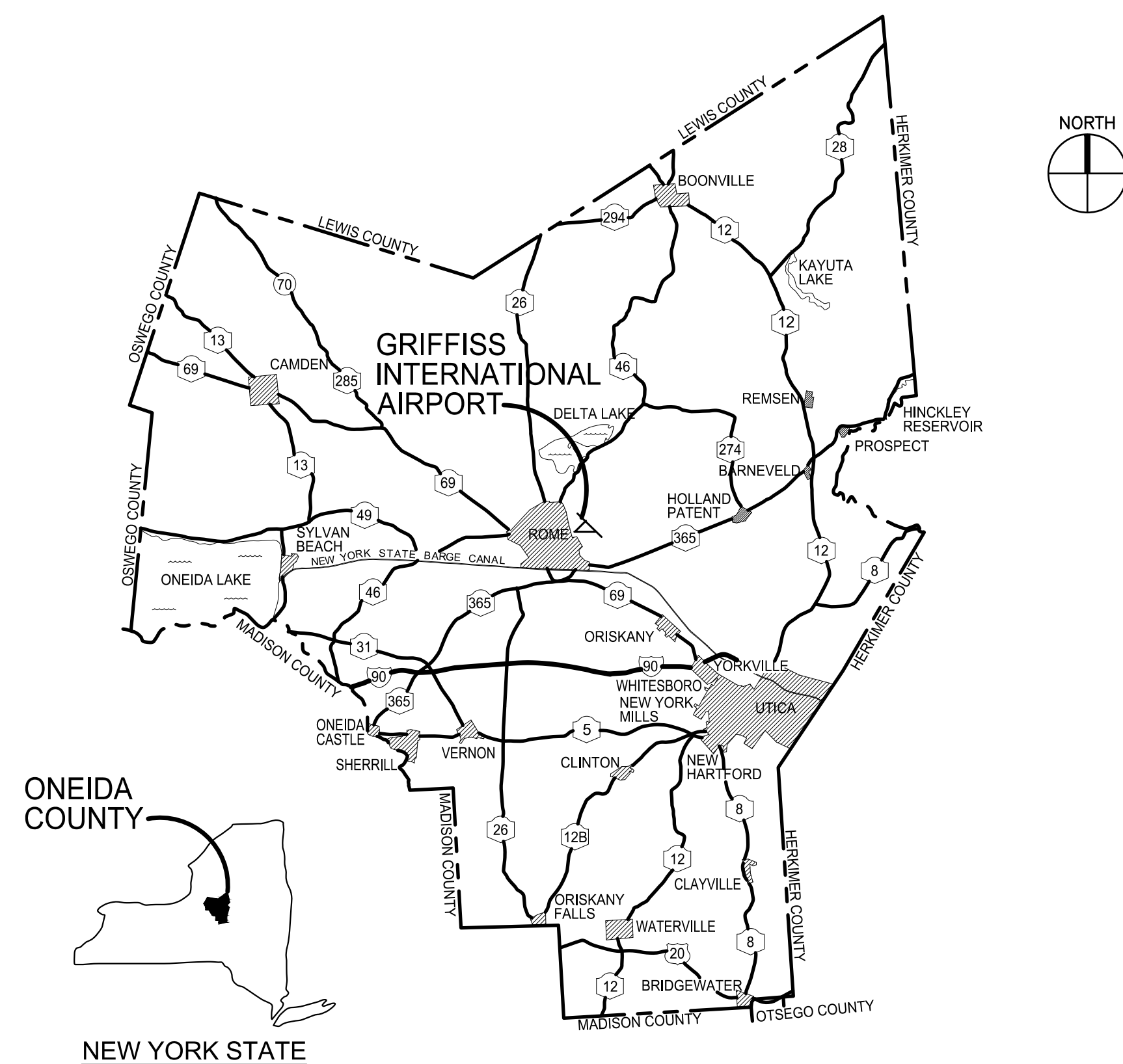




**CONTRACT DRAWINGS
FOR THE CONSTRUCTION OF
TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**PERIMETER ROAD
GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY
ROME, NEW YORK**



LOCATION MAP

C&S PROJECT NO.: 146.205.005

ONEIDA COUNTY CONTRACT NO. H-_____
BID REFERENCE NO. 2335

**MAY 2, 2025
BID DOCUMENTS
NOT FOR CONSTRUCTION**

NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
STATE EDUCATION LAW

GI-001

SHEET 1 OF 58

Copyright ©

C

C

B

B1

LEGEND
SCALE: NOT TO SCALE

A

A1

SURVEY CONTROL
SCALE: NOT TO SCALE

X—X—X—X—X—X—X

ST^{RCP}

UD6"^{UD}

CO

CB

DMH

SS

SMH

FO

T—T—T—T—T—T—T

E—E—E—E—E—E—E

W—W—W—W—W—W—W

WW

LP

B

tie-down

MW

taxiway edge light

retroreflective marker

airfield guidance sign

telephone junction box

TMH

EHH

PB

JC

E—E—E—E—E—E—E

4WD*B*

CP-16003

BM1

ST^{RCP}

CB

CB

X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X

EXISTING FENCE LINE

EXISTING DRAINAGE PIPE

EXISTING UNDERDRAIN PIPE

EXISTING UNDERDRAIN CLEANOUT

EXISTING STORMWATER CATCH BASIN

EXISTING STORMWATER DRAINAGE MANHOLE

EXISTING SANITARY LINE

EXISTING SANITARY MANHOLE

EXISTING FIBER OPTIC LINE

EXISTING COMMUNICATIONS LINE

EXISTING UNDERGROUND ELECTRIC LINE

EXISTING UNDERGROUND WATER LINE

EXISTING WATER VALVE

EXISTING LIGHT POLE

EXISTING BOLLARD OR POST

EXISTING TIE-DOWN

EXISTING MONITORING WELL

EXISTING TAXIWAY EDGE LIGHT

EXISTING RETROREFLECTIVE MARKER

EXISTING AIRFIELD GUIDANCE SIGN

EXISTING TELEPHONE JUNCTION BOX

EXISTING TELEPHONE MANHOLE

EXISTING ELECTRICAL HAND HOLE

EXISTING PULLBOX

EXISTING JUNCTION CAN

EXISTING AIRFIELD LIGHTING CABLE IN CONDUIT

EXISTING DUCT BANK

EXISTING SURVEY CONTROL POINT

EXISTING BENCHMARK LOCATION

EXISTING DRAINAGE PIPE TO BE REMOVED

EXISTING STORMWATER CATCH BASIN TO BE REMOVED

EXISTING FENCE LINE TO BE REMOVED

24"^{RCP}

FM

SMH

CHH

EHH

rack

light pole

X—X—X—X—X—X—X

temporary fence

traffic sign

sock location

inlet protection

work area limits

flagperson location

asphalt pavement

shoulder pavement

s Sidewalk

Asphalt Pavement To Be Removed

Gravel Drive Or Shoulder To Be Removed

Concrete Pavement To Be Rubblized And Removed

Concrete Pavement To Be Rubblized

PROPOSED SANITARY LINE

PROPOSED SANITARY FORCE MAIN

PROPOSED SANITARY MANHOLE

PROPOSED COMMUNICATION DUCT BANK

PROPOSED COMMUNICATION HAND HOLE

PROPOSED UNDERGROUND ELECTRIC LINE

PROPOSED ELECTRICAL HAND HOLE

PROPOSED ELECTRICAL RACK

PROPOSED LIGHT POLE AND LUMINAIRE

PROPOSED FENCE LINE

PROPOSED TEMPORARY CONSTRUCTION FENCE

PROPOSED TRAFFIC SIGN

PROPOSED COMPOST FILTER SOCK LOCATION

PROPOSED STORM DRAIN INLET PROTECTION

WORK AREA LIMITS

FLAGPERSON LOCATION

PROPOSED ASPHALT PAVEMENT

PROPOSED ASPHALT SHOULDER PAVEMENT

PROPOSED CONCRETE SIDEWALK

EXISTING ASPHALT PAVEMENT TO BE REMOVED

EXISTING GRAVEL DRIVE OR SHOULDER TO BE REMOVED

EXISTING CONCRETE PAVEMENT TO BE RUBBLIZED AND REMOVED

EXISTING CONCRETE PAVEMENT TO BE RUBBLIZED

B1

LEGEND
SCALE: NOT TO SCALE

BASELINE CONTROL POINTS

POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-101 (RME-A)	1,178,790.450	1,134,861.370	473.70'	PRIMARY AIRPORT CONTROL STATION (PACS)
CP-16003	1,178,821.676	1,129,507.147	479.37'	5/8" REBAR WITH CAP SET
CP-16005	1,179,023.956	1,129,033.073	479.59'	5/8" REBAR WITH CAP SET
CP-16007	1,178,795.454	1,128,583.264	479.86"	5/8" REBAR WITH CAP SET
CP-16009	1,179,141.129	1,128,279.119	480.53'	5/8" REBAR WITH CAP SET
CP-16011	1,179,334.622	1,128,755.249	481.49'	5/8" REBAR WITH CAP SET
CP-16013	1,179,790.147	1,128,889.423	482.25'	5/8" REBAR WITH CAP SET
CP-16015	1,179,974.799	1,129,362.718	483.18'	5/8" REBAR WITH CAP SET
CP-16017	1,180,448.798	1,129,511.112	483.41'	5/8" REBAR WITH CAP SET
CP-16019	1,180,606.955	1,129,960.008	483.86"	5/8" REBAR WITH CAP SET
CP-16021	1,181,124.423	1,130,140.709	483.80"	5/8" REBAR WITH CAP SET
CP-16023	1,181,259.532	1,130,583.463	484.82"	5/8" REBAR WITH CAP SET
CP-16025	1,181,693.163	1,130,676.939	484.98"	5/8" REBAR WITH CAP SET
CP-16027	1,181,726.003	1,131,073.131	485.80"	MAG NAIL SET IN CONC.
CP-16050	1,178,762.932	1,128,231.015	480.67"	5/8" REBAR WITH CAP SET
CP-16052	1,179,259.682	1,128,139.610	481.23'	5/8" REBAR WITH CAP SET

BENCHMARKS

ID	ELEVATION	DESCRIPTION
BM-1	481.55'	SPIKE SET IN POLE
BM-2	480.53'	' X ' CUT ON JUNCTION CAN RIM
BM-3	483.14'	5/8" REBAR WITH CAP SET
BM-4	484.66"	MAG NAIL DRILLED IN CONCRETE
BM-5	485.80"	MAG NAIL SET IN CONCRETE BASE

NOTES:

1. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON NYS CENTRAL ZONE NAD83(2011) (NORTH AMERICAN DATUM 1983/2011).

2. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDB8).

3. ALL HORIZONTAL AND VERTICAL CONTROL IS REFERENCED TO PRIMARY AIRPORT CONTROL STATION (PACS) "RME A", WITH AN ELEVATION OF 473.70'.

9	P-101	ASPHALT PAVEMENT REMOVAL (3" AVERAGE THICKNESS)	12,100	SY
10	P-101	CONCRETE PAVEMENT REMOVAL (7" AVERAGE THICKNESS)	18,500	SY
11	P-152	UNCLASSIFIED EXCAVATION	4,250	CY
12	P-152	EMBANKMENT IN PLACE	7,500	CY
13	P-215	CONCRETE PAVEMENT RUBBLIZATION	26,250	SY
14	P-219	RECYCLED CONCRETE AGGREGATE BASE COURSE, OWNER PROVIDED MATERIAL	8,500	CY
15	P-219	SEPARATION GEOTEXTILE	1,300	SY
16	404.097	NYSDOT 9.5 F2 TOP COURSE ASPHALT, 70 SERIES COMPACTION	2,400	TON
17	404.199	NYSDOT 19 F9 BINDER COURSE ASPHALT, 80 SERIES COMPACTION	2,850	TON
18	404.379	NYSDOT 37.5 F9 BASE COURSE ASPHALT, 80 SERIES COMPACTION	5,400	TON
19	608.01	CONCRETE SIDEWALK	230	CY
20	609.04	CAST IN PLACE CONCRETE CURB	7,500	LF
21	P-603	EMULSIFIED ASPHALT TACK COAT	1,570	GAL
22	P-605	JOINT SEALING FILLER	250	LF
23	P-620	PAVEMENT MARKINGS	5,400	SF
24	P-620	INTERIM PAVEMENT MARKINGS	5,400	SF
25	D-701	15-INCH CORRUGATED POLYETHYLENE PIPE (HDPE), TYPE S	1,880	LF
26	D-701	18-INCH CORRUGATED POLYETHYLENE PIPE (HDPE), TYPE S	450	LF
27	D-701	REMOVAL OF EXISTING PIPE, ALL TYPES AND SIZES	575	LF
28	D-705	4" PERFORATED CORRUGATED PE DRAINAGE PIPE UNDERDRAIN, TYPE CP	2,700	LF
29	D-751	STORMWATER CATCH BASIN	31	EACH
30	D-751	SANITARY SEWER MANHOLE, 4-FOOT DIAMETER	9	EACH
31	D-751	REMOVAL OF EXISTING STORM WATER STRUCTURE	10	EACH
32	331000	8-INCH DIAMETER DUCTILE IRON WATER PIPE	415	LF
33	331000	12-INCH DIAMETER DUCTILE IRON WATER PIPE	4,175	LF
34	331000	8 AND 12-INCH DIAMETER WATER GATE VALVE AND BOX	12	EACH
35	331000	WATER HYDRANT ASSEMBLY	7	EACH
36	333000	20-INCH DIAMETER HIGH DENSITY POLYETHYLENE, DR11 SANITARY SEWER FORCE MAIN PIPE	1,100	LF
37	333000	18-INCH DIAMETER SDR 35 PVC SANITARY SEWER PIPE	2,630	LF
38	T-901	SEEDING, WET APPLIED	32,000	SY
39	T-905	TOPSOIL, FURNISHED FROM OFF SITE	3,000	CY
40	T-908	MULCHING	32,000	SY
41	L-100	ROADWAY AREA LIGHTING UNIT	19	EACH
42	L-100	ROADWAY AREA LIGHTING POWER DISTRIBUTION RACK ASSEMBLY	1	LS
43	L-100	NO. 4/0 AWG, 600V, TYPE THWN-2 1/C POWER CABLE	3,500	LF
44	L-100	NO. 6 AWG, 600V, TYPE THWN-2 1/C POWER CABLE	13,750	LF
45	L-100	CONCRETE ENCASED ELECTRICAL CONDUIT, 1WAY-2INCH, SCH. 40 PVC CONDUIT PAVEMENT	70	LF
46	L-100	NON-ENCASED ELECTRICAL CONDUIT, 1WAY-2INCH, SCH. 80 PVC CONDUIT IN TURF	1,500	LF
47	L-100	CONCRETE ENCASED ELECTRICAL CONDUIT, 1WAY-1INCH, SCH. 40 PVC CONDUIT PAVEMENT	70	LF
48	L-100	NON-ENCASED ELECTRICAL CONDUIT, 1WAY-1INCH, SCH. 80 PVC CONDUIT IN TURF	4,200	LF
49	L-100	NON-ENCASED ELECTRICAL CONDUIT WITH 3-CELL INNERDUCT, 2WAY-4INCH, SCH. 80 PVC CONDUIT IN TURF	4,100	LF
50	L-100	NON-ENCASED ELECTRICAL CONDUIT, 2WAY-3INCH, SCH. 80 PVC CONDUIT IN TURF	1,150	LF
51	L-100	ELECTRICAL HAND HOLE, HEAVY DUTY POLYMER CONCRETE, TIER 22	6	EACH
52	L-100	TELECOMMUNICATIONS HAND HOLE, HEAVY DUTY PRECAST CONCRETE, H-20	8	EACH
53	L-102	ELECTRIC UTILITY ALLOWANCE	1	LS
54	L-102	UTILITY COORDINATION	1	LS
55	L-127	TRAFFIC SIGN ASSEMBLY	2	EACH
56	L-127	CONCRETE HIGHWAY JERSEY BARRIER	150	LF
57	F-162	8-FOOT CHAIN LINK FENCE WITH BARBED WIRE	15,000	LF
58	F-162	8-FOOT CHAIN LINK FENCE, PVC COATED BLACK	600	LF
59	F-162	PNEUMATICALLY DRIVEN WILDLIFE BARRIER	14,400	LF
60	F-162	4-FOOT BY 8-FOOT SINGLE SWING PEDESTRIAN GATE, PVC COATED BLACK	3	EACH
61	F-162	12-FOOT BY 8-FOOT DOUBLE SWING GATE, PVC COATED BLACK	1	EACH
62	F-162	24-FOOT BY 8-FOOT DOUBLE SWING GATE, PVC COATED BLACK	1	EACH
63	F-162	30-FOOT BY 8-FOOT SINGLE SLIDE CANTILEVER GATE	3	EACH
64	F-162	REMOVE CHAIN LINK FENCE AND GATES INCLUDING POSTS AND FOUNDATIONS, ALL TYPES	1,110	LF

A3

QUANTITIES

SCALE: NOT TO SCALE

C				
				
B	TRIANGLE AREA CIVIL SITE DEVELOPMENT GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK			
A	REVISIONS			
	PROJECT NO: 146.205.005			
	DATE: MAY 2, 2025			
	DRAWN BY: B. BUCKINGHAM			
	DESIGNED BY: C. BRUBACH			
	CHECKED BY: E. N. KENNA, P.E.			
	NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW			
	SURVEY CONTROL, LEGEND AND QUANTITIES			
	GI-003			
	SHEET NO. 3 OF 58			



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

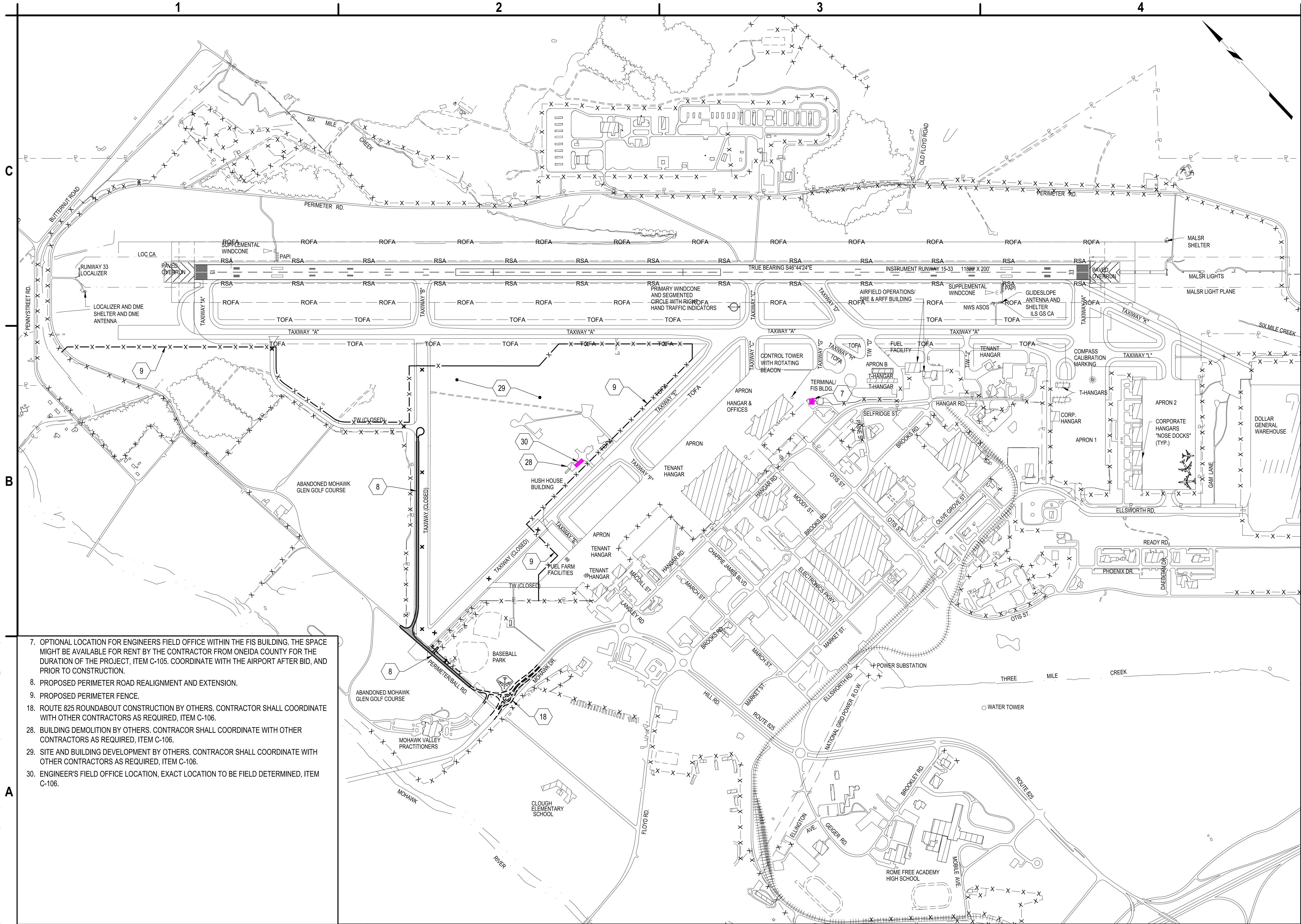
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

GENERAL PLAN

GC-101

SHEET NO. 4 OF 58

Copyright ©



May 05, 2025 - 10:26am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CADD\Sheet Files\146205005 GC-Series.dwg

A1	KEYED NOTES
	SCALE: NOT TO SCALE

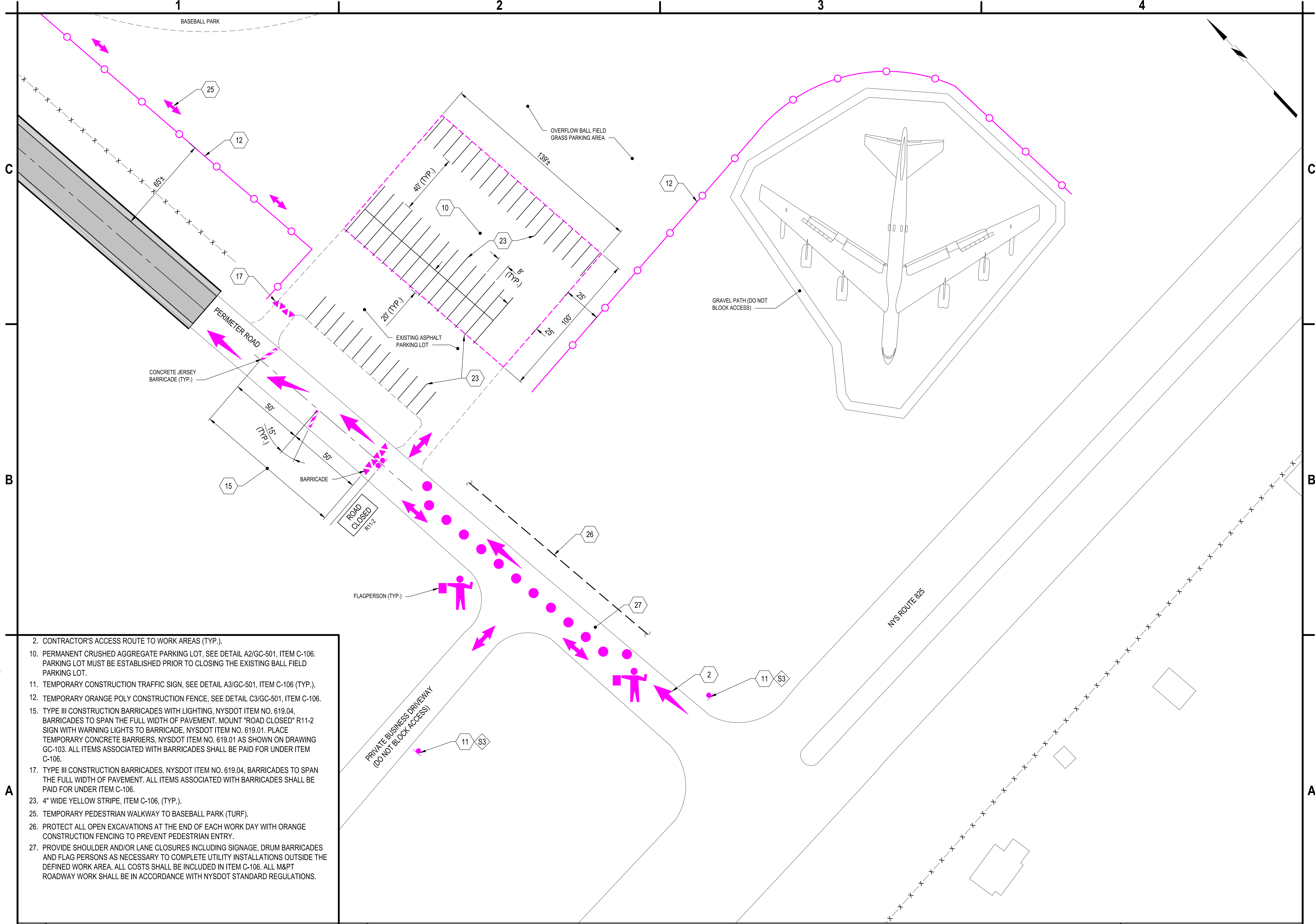
SCALE: NOT TO SCALE

A2	GENERAL PLAN
	SCALE: 1" = 600'

SCALE: 1" = 60'



May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\Sheet Files\146205005_GC-Series.dwg



2. CONTRACTOR'S ACCESS ROUTE TO WORK AREAS (TYP.).
10. PERMANENT CRUSHED AGGREGATE PARKING LOT, SEE DETAIL A2/GC-501, ITEM C-106. PARKING LOT MUST BE ESTABLISHED PRIOR TO CLOSING THE EXISTING BALL FIELD PARKING LOT.
11. TEMPORARY CONSTRUCTION TRAFFIC SIGN, SEE DETAIL A3/GC-501, ITEM C-106 (TYP.).
12. TEMPORARY ORANGE POLY CONSTRUCTION FENCE, SEE DETAIL C3/GC-501, ITEM C-106.
15. TYPE III CONSTRUCTION BARRICADES WITH LIGHTING, NYSDOT ITEM NO. 619.04, BARRICADES TO SPAN THE FULL WIDTH OF PAVEMENT. MOUNT "ROAD CLOSED" R11-2 SIGN WITH WARNING LIGHTS TO BARRICADE, NYSDOT ITEM NO. 619.01. PLACE TEMPORARY CONCRETE BARRIERS, NYSDOT ITEM NO. 619.01 AS SHOWN ON DRAWING GC-103. ALL ITEMS ASSOCIATED WITH BARRICADES SHALL BE PAID FOR UNDER ITEM C-106.
17. TYPE III CONSTRUCTION BARRICADES, NYSDOT ITEM NO. 619.04, BARRICADES TO SPAN THE FULL WIDTH OF PAVEMENT. ALL ITEMS ASSOCIATED WITH BARRICADES SHALL BE PAID FOR UNDER ITEM C-106.
23. 4" WIDE YELLOW STRIPE, ITEM C-106, (TYP.).
25. TEMPORARY PEDESTRIAN WALKWAY TO BASEBALL PARK (TURF).
26. PROTECT ALL OPEN EXCAVATIONS AT THE END OF EACH WORK DAY WITH ORANGE CONSTRUCTION FENCING TO PREVENT PEDESTRIAN ENTRY.
27. PROVIDE SHOULDER AND/OR LANE CLOSURES INCLUDING SIGNAGE, DRUM BARRICADES AND FLAG PERSONS AS NECESSARY TO COMPLETE UTILITY INSTALLATIONS OUTSIDE THE DEFINED WORK AREA. ALL COSTS SHALL BE INCLUDED IN ITEM C-106. ALL M&PT ROADWAY WORK SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD REGULATIONS.

A1 KEYED NOTES

SCALE: NOT TO SCALE

A2 ENLARGED CONSTRUCTION WORK PHASING PLAN

SCALE: 1" = 30'



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

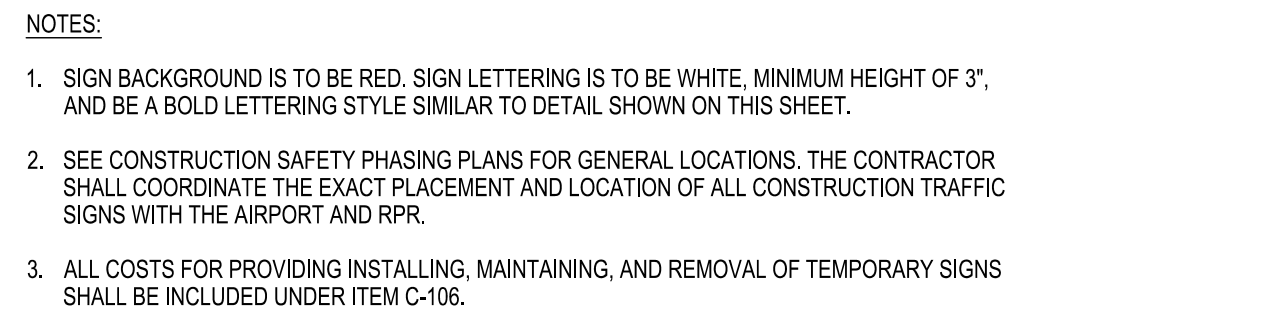
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

**ENLARGED
CONSTRUCTION
WORK PHASING PLAN**

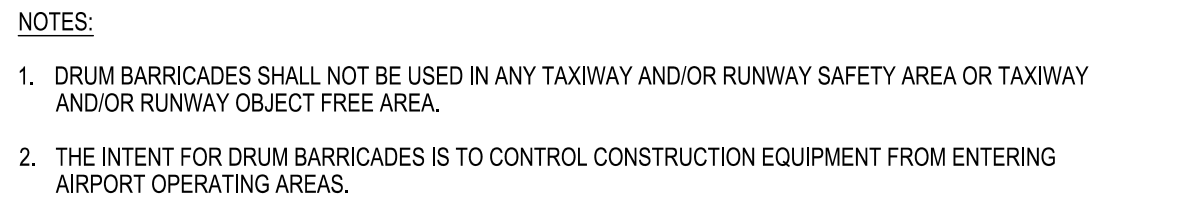
GC-103

SHEET NO. 6 OF 58

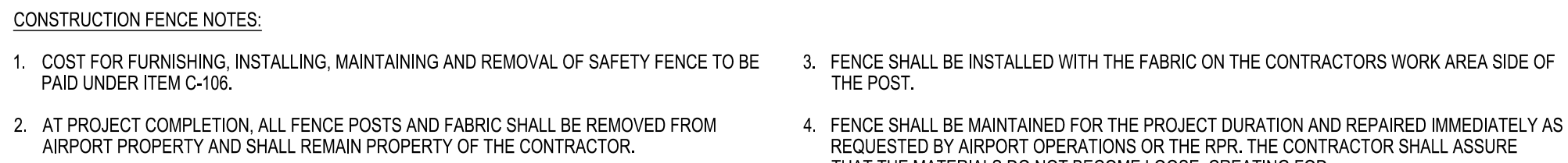
Copyright ©



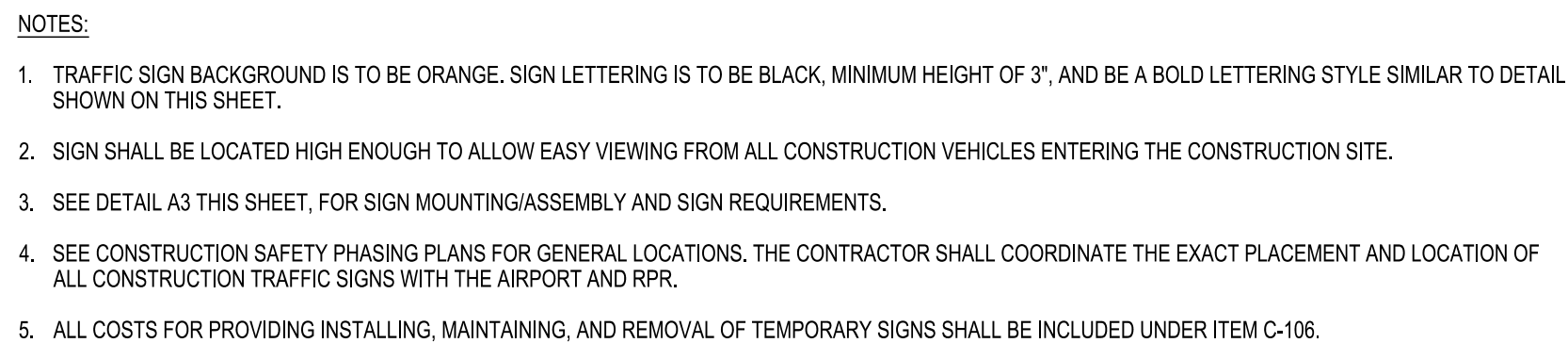
SCALE: NOT TO SCALE



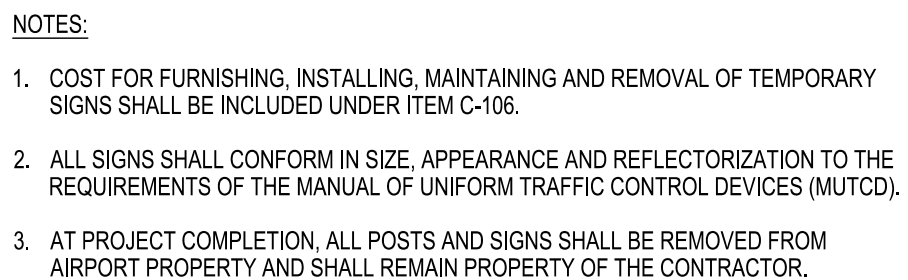
D2 SCALE: NOT TO SCALE



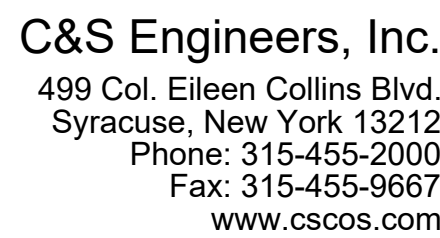
SCALE: NOT TO SCALE



D3 SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

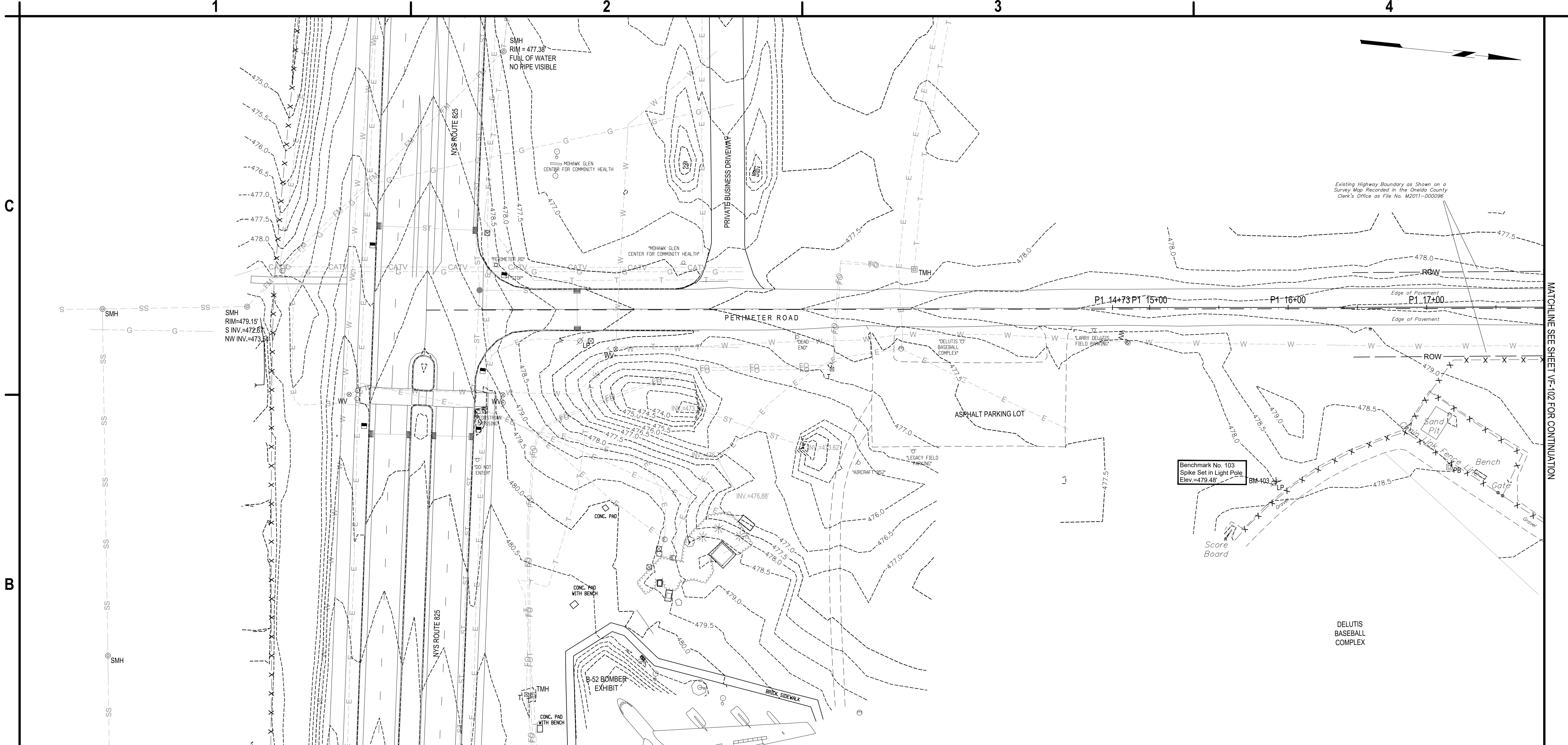
PROJECT NO:	146.205.005
DATE:	MAY 2, 2025
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	C. BRUBACH
CHECKED BY:	E. N. KENNA, P.E.

NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

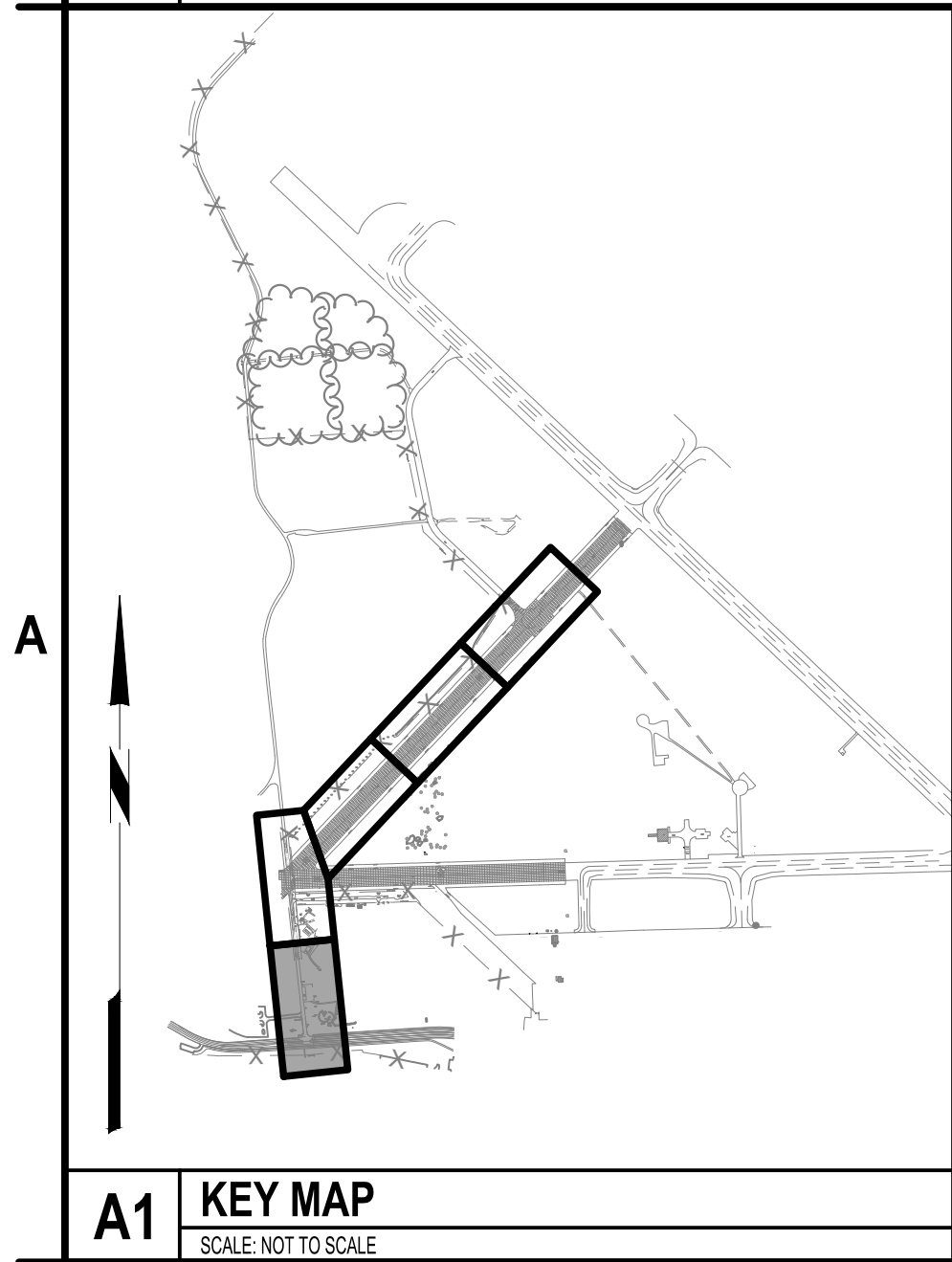
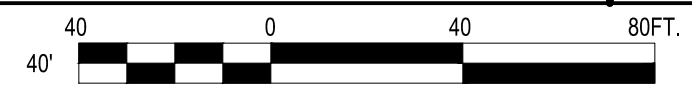
CONSTRUCTION WORK PHASING DETAILS

GC-501

May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CA\DD\Sheet Files\146205005_VF-Series.dwg



B1 EXISTING CONDITIONS PLAN
SCALE: 1" = 40'



A1 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

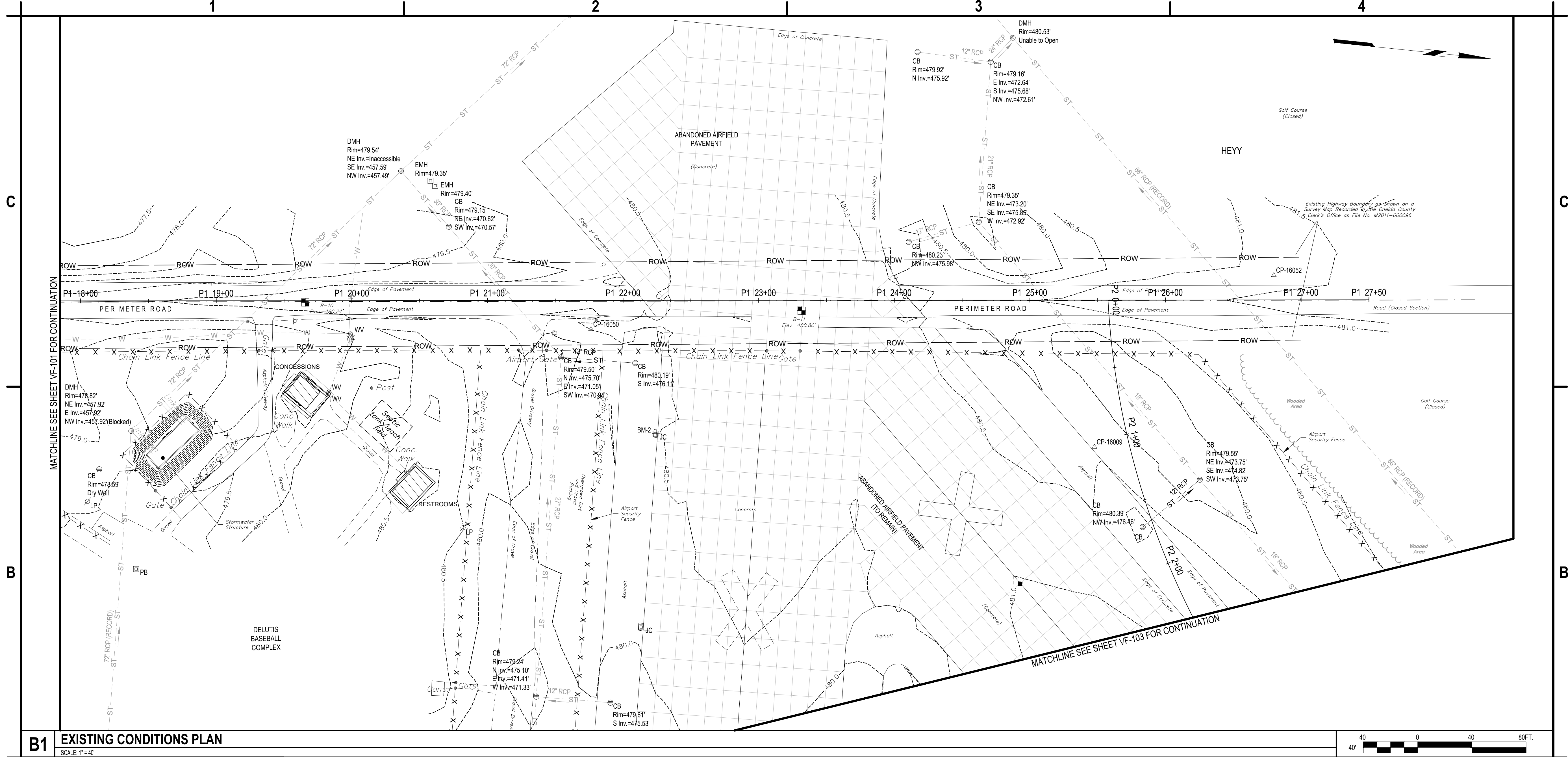
**EXISTING
CONDITIONS PLAN**

VF-101

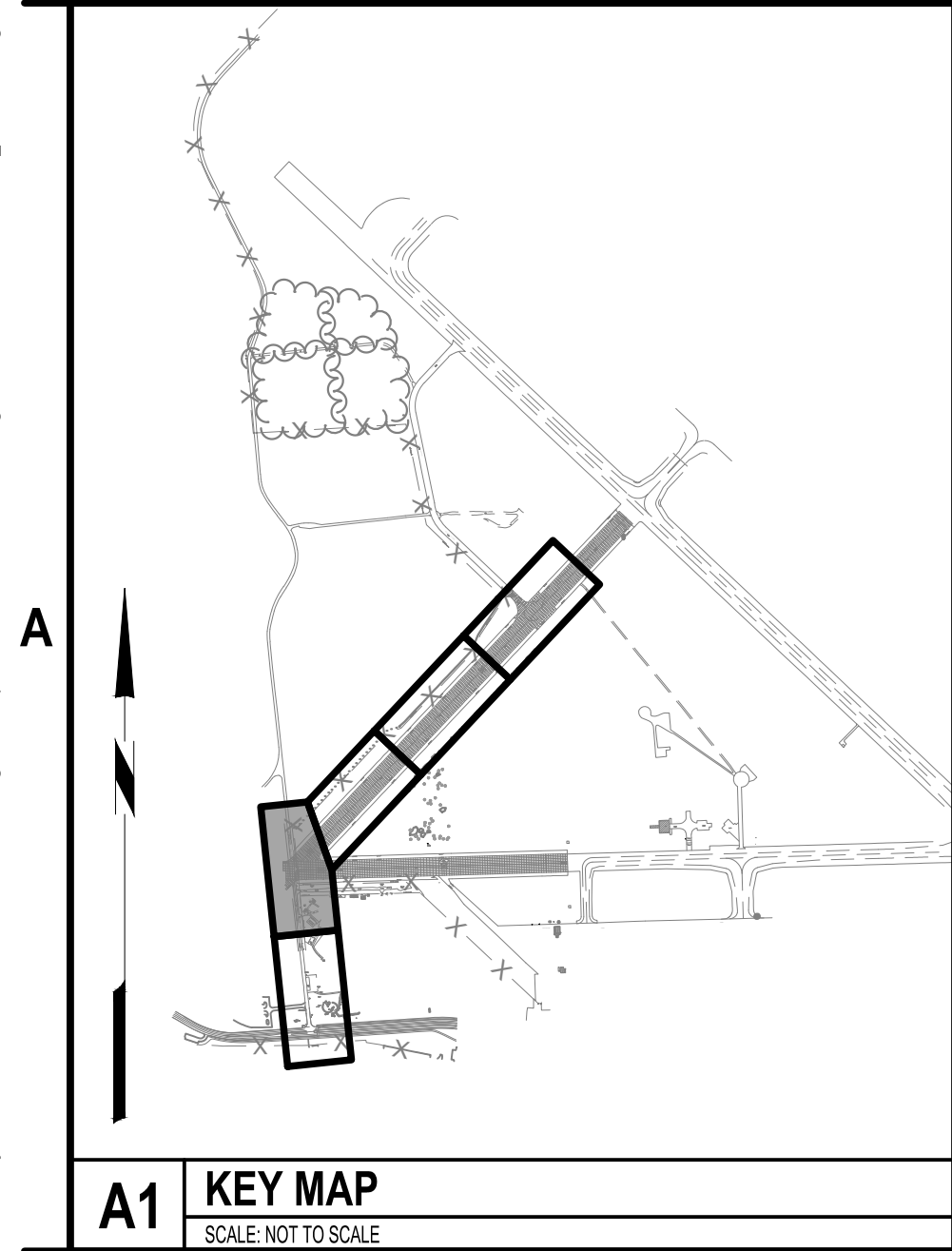
SHEET NO. 8 OF 58

Copyright ©

May 05, 2025 - 10:28am
F:\Project\146-ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CAD\Draw Files\146205005_VF-Series.dwg



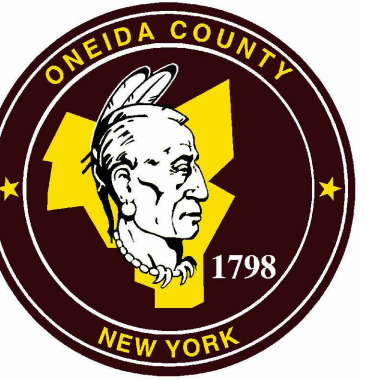
B1 EXISTING CONDITIONS PLAN
SCALE: 1"=40'



A1 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

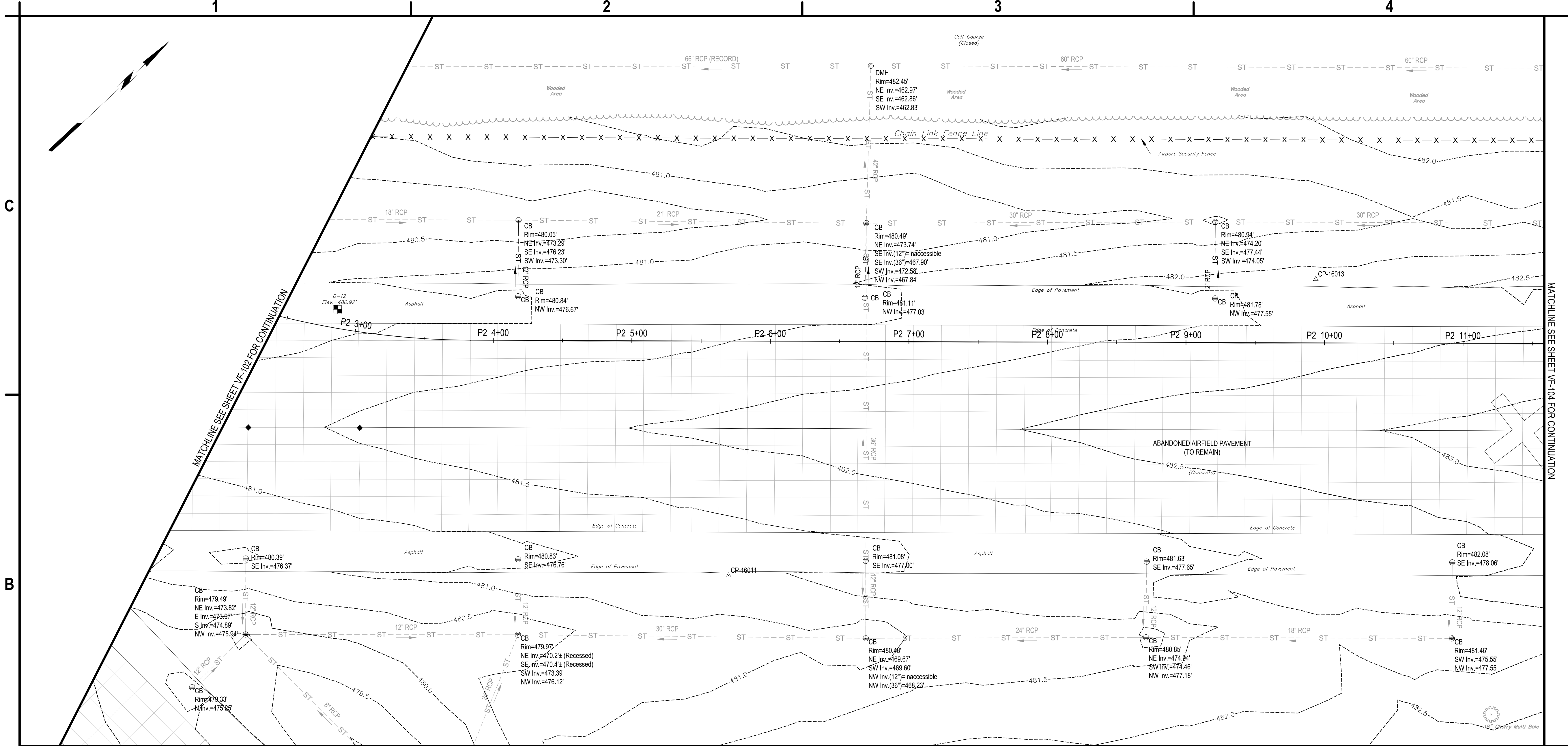
**EXISTING
CONDITIONS PLAN**

VF-102

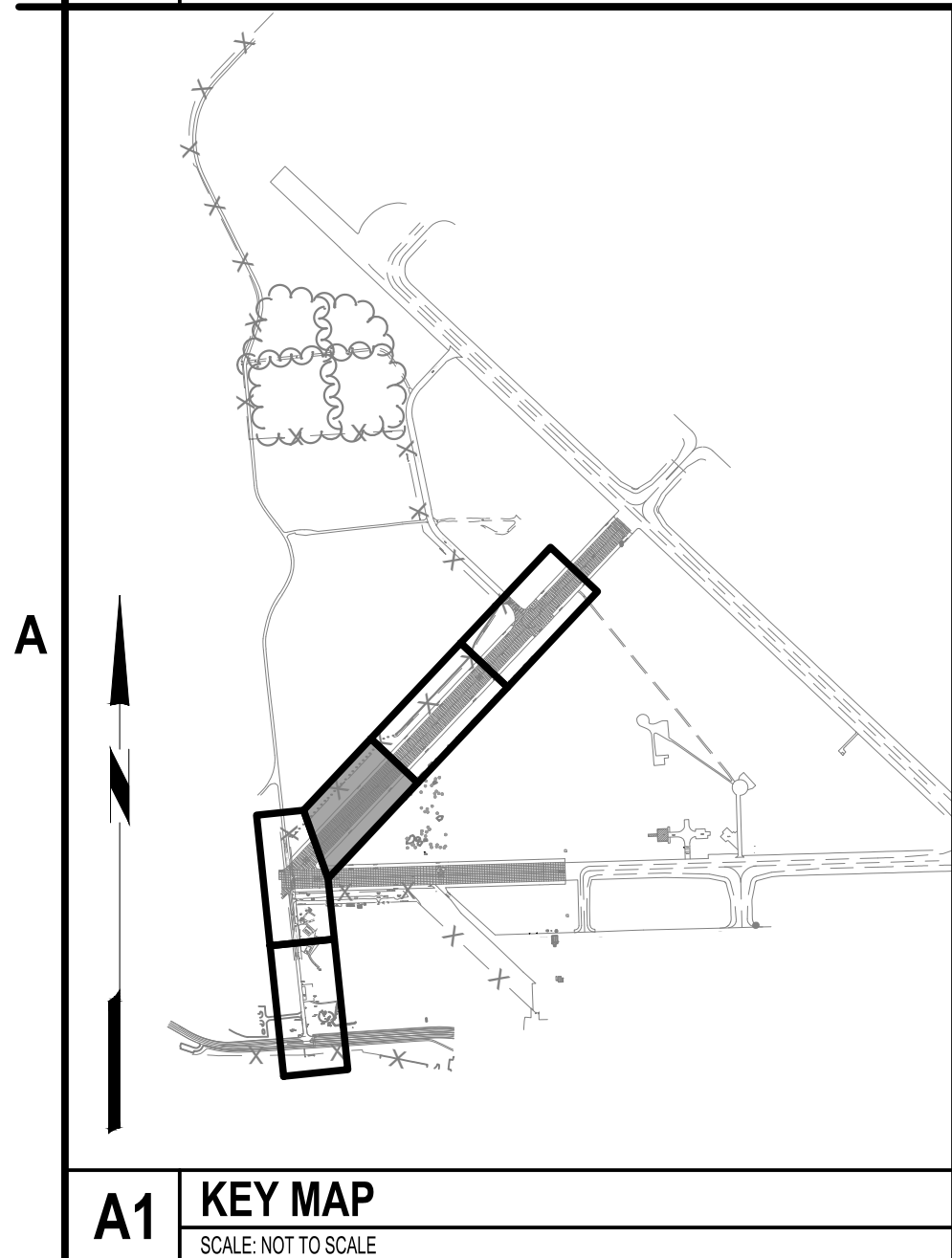
SHEET NO. 9 OF 58

Copyright ©

May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CAD\Draw Files\146205005_VF-Series.dwg



B1 EXISTING CONDITIONS PLAN
SCALE: 1" = 40'



A1 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		

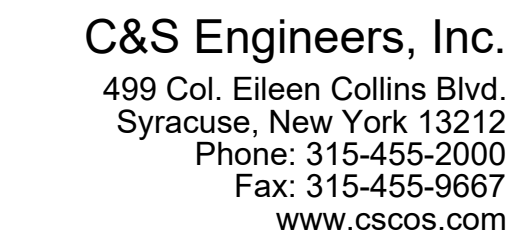
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

**EXISTING
CONDITIONS PLAN**

VF-103

SHEET NO. 10 OF 58

Copyright ©



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	146.205.005	
DATE:	MAY 2, 2025	
DRAWN BY:	B. BUCKINGHAM	
DESIGNED BY:	C. BRUBACH	
CHECKED BY:	E. N. KENNA, P.E.	

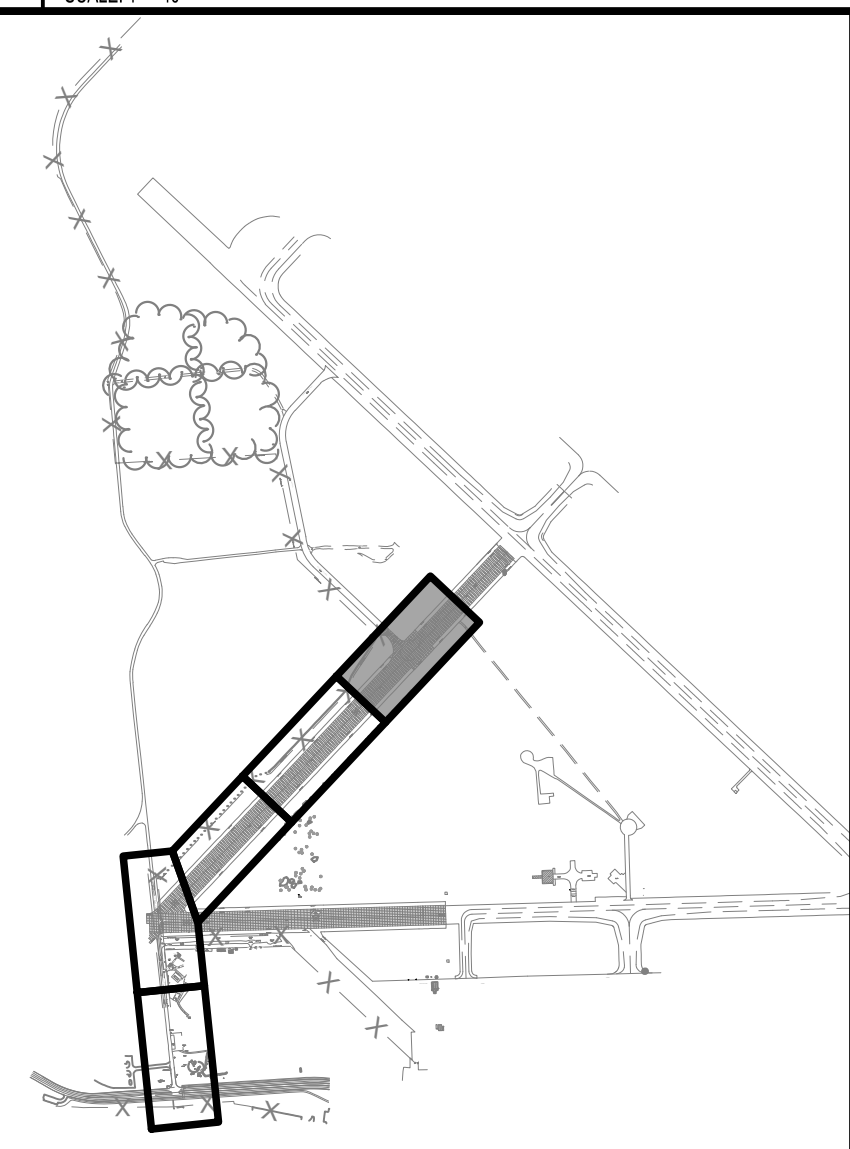
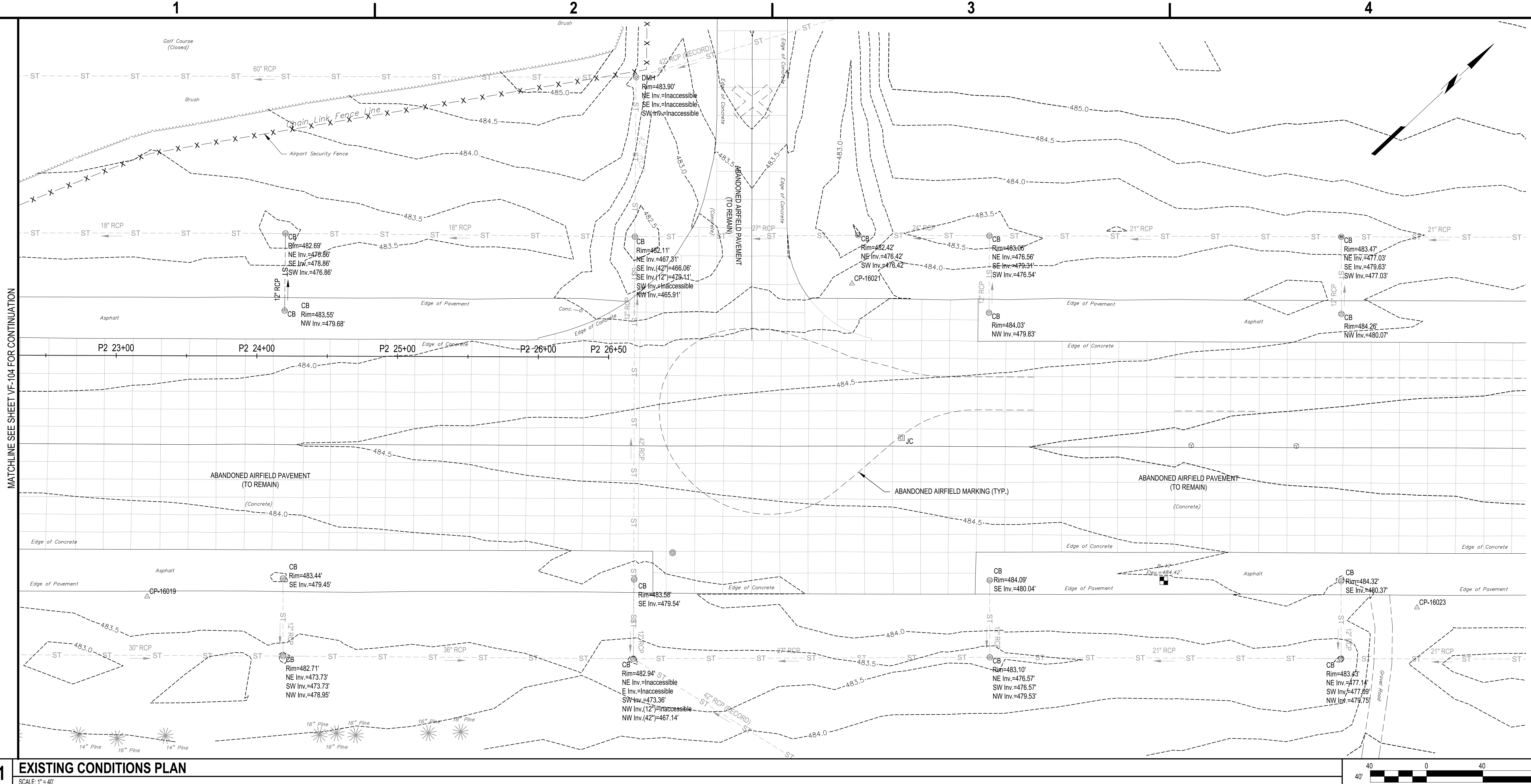
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

EXISTING CONDITIONS PLAN

VF-105

SHEET NO. 12 OF 58

copyright ©

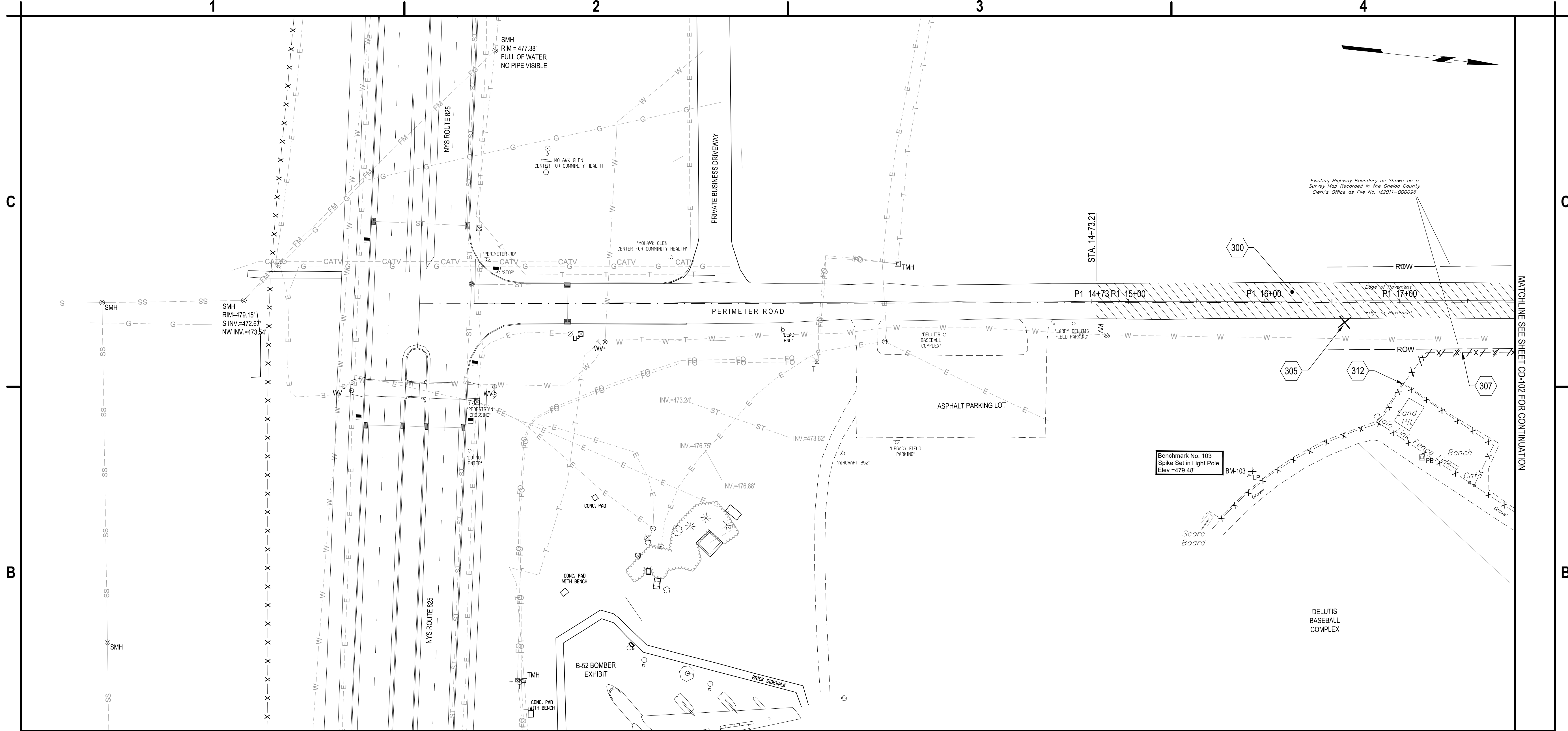


A1	KEY MAP
-----------	----------------

SCALE: NOT TO SCALE

May 05, 2025 - 10:26am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CADD\Sheet Files\146205005_VF-Series.dwg

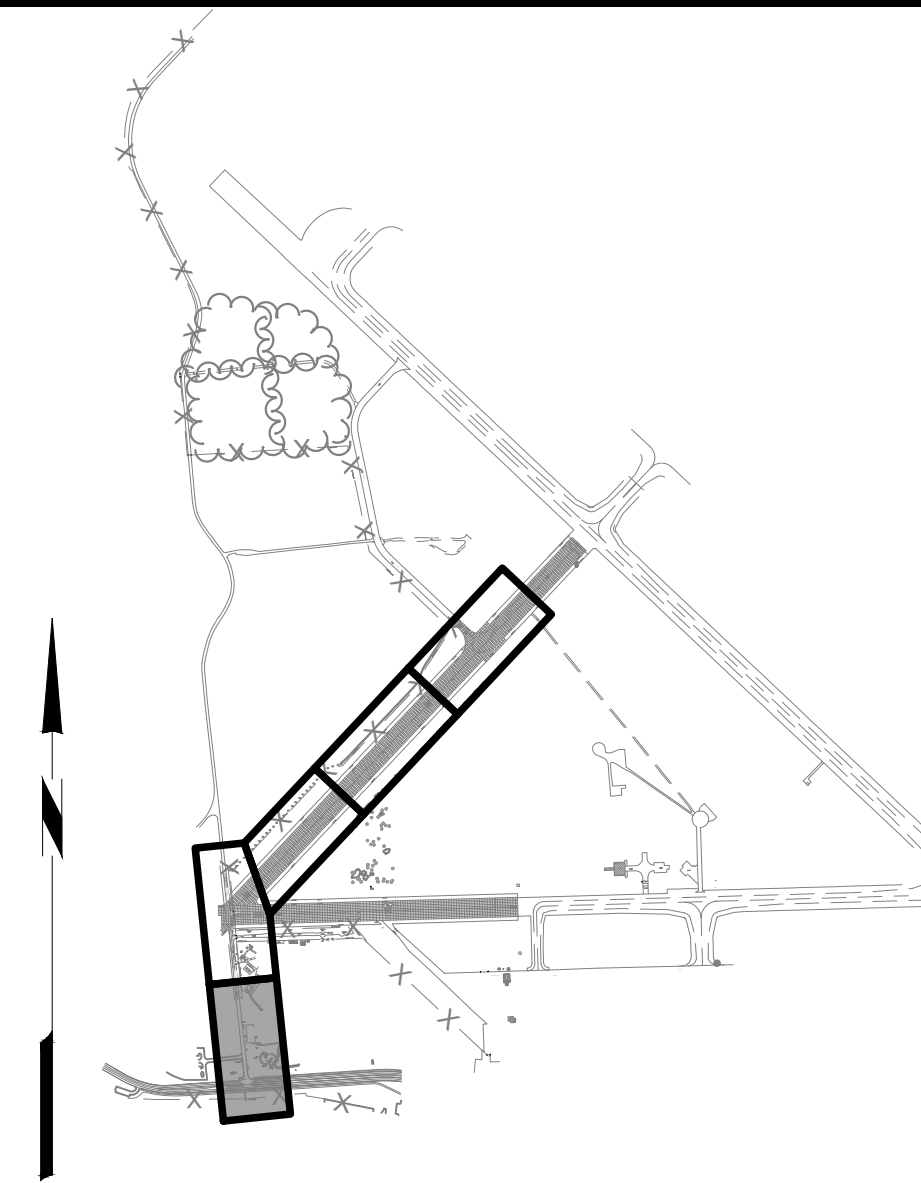
May 05, 2025 - 10:27am
F:\Project\146-ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\DD\Sheet Files\146205005_CD-Series.dwg



B1 DEMOLITION PLAN
SCALE: 1" = 40'

300. REMOVE ASPHALT PAVEMENT (PERIMETER ROAD) (3.6" AVERAGE THICKNESS), ITEM P-101.
305. EXISTING ROAD EDGE DELINEATOR TO BE REMOVED AND DISPOSED OF OFF-SITE, COST SHALL BE INCIDENTAL TO ITEM P-101.
307. EXISTING CHAIN LINK FENCE AND GATES TO BE REMOVED AND DISPOSED OF, ITEM F-162.
312. LIMIT OF FENCE REMOVAL.

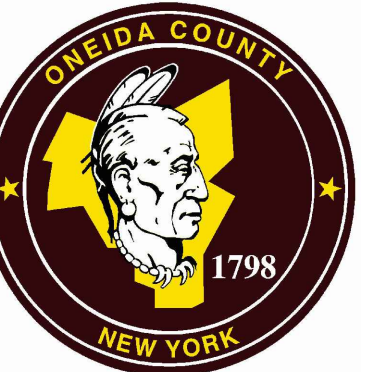
A1 KEYED NOTES
SCALE: NOT TO SCALE



A2 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

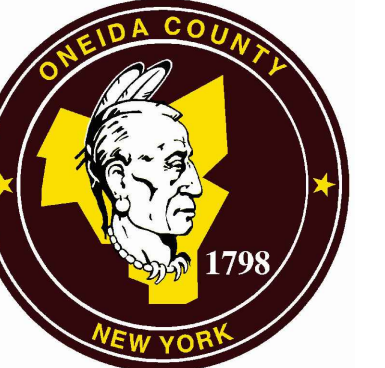
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

DEMOLITION PLAN

CD-101

SHEET NO. 13 OF 58

Copyright ©



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	146.205.005	
DATE:	MAY 2, 2025	
DRAWN BY:	B. BUCKINGHAM	
DESIGNED BY:	C. BRUBACH	
CHECKED BY:	E. N. KENNA, P.E.	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

CD-103



301. RUBBLIZE EXISTING CONCRETE PAVEMENT, ITEM P-215, AND REMOVE CONCRETE PAVEMENT (7" AVERAGE THICKNESS), ITEM P-101. REMOVAL IS ONLY REQUIRED WITHIN THE UTILITY CORRIDOR TO FACILITATE UTILITY INSTALLATION, OTHERWISE LEAVE IN PLACE.
303. EXISTING CONCRETE TO BE RUBBLIZED IN PLACE AND TO BE UTILIZED AS SUBBASE FOR NEW PAVEMENT, ITEM P-215.
308. EXISTING CATCH BASIN TO BE REMOVED, ITEM D-751.
309. EXISTING UNDERGROUND STORMWATER PIPE TO BE REMOVED, ITEM D-701.
313. REMOVE ASPHALT PAVEMENT (SHOULDER ON THE CONCRETE AIRFIELD PAVEMENT) (1" AVERAGE THICKNESS), ITEM P-101.



- ## A1 KEYED NOTES



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

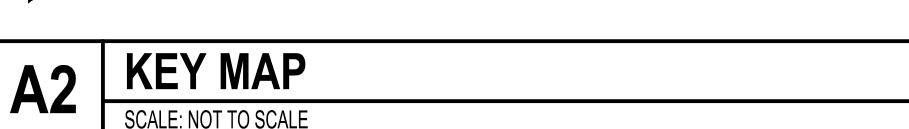
CD-105

SHEET NO. 17 OF 58



SCALE: 1" = 40'

301. RUBBLIZE EXISTING CONCRETE PAVEMENT, ITEM P-215, AND REMOVE CONCRETE PAVEMENT (7" AVERAGE THICKNESS), ITEM P-101. REMOVAL IS ONLY REQUIRED WITHIN THE UTILITY CORRIDOR TO FACILITATE UTILITY INSTALLATION, OTHERWISE LEAVE IN PLACE.
303. EXISTING CONCRETE TO BE RUBBLIZED IN PLACE AND TO BE UTILIZED AS SUBBASE FOR NEW PAVEMENT, ITEM P-215.
308. EXISTING CATCH BASIN TO BE REMOVED, ITEM D-751.
309. EXISTING UNDERGROUND STORMWATER PIPE TO BE REMOVED, ITEM D-701.
313. REMOVE ASPHALT PAVEMENT (SHOULDER ON THE CONCRETE AIRFIELD PAVEMENT) (1" AVERAGE THICKNESS), ITEM P-101.

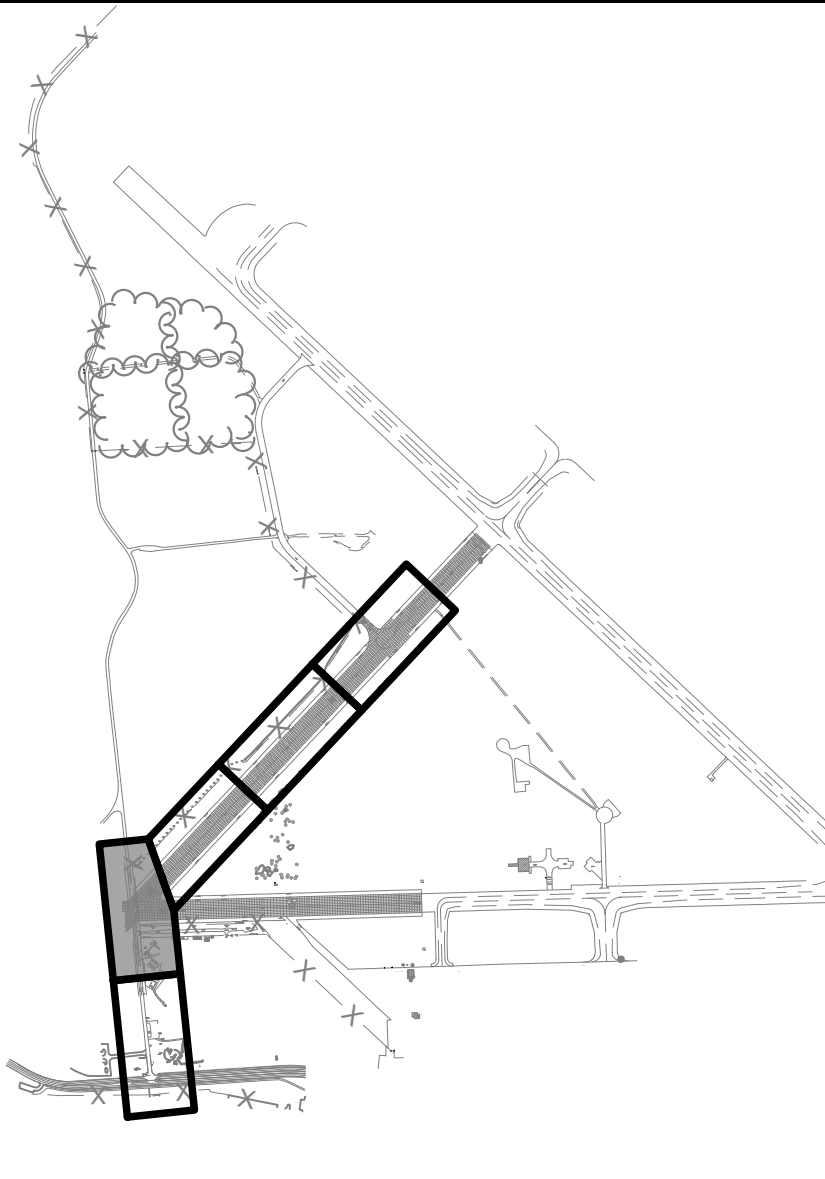


SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CA102\Sheet Files\146205005_CS-Series.dwg

500. PROPOSED ASPHALT ROAD PAVEMENT, SEE DETAIL C1/CG-501.
501. PROPOSED CONCRETE CURB, SEE DETAIL B2/CG-502.
502. PROPOSED CONCRETE SIDEWALK, SEE DETAIL C2/CG-502.
503. PROPOSED UTILITY EASEMENT LIMIT.
505. PROPOSED ASPHALT ROAD PAVEMENT, SEE DETAIL B1/CG-501.
507. PROPOSED CURB RAMP, SEE DETAIL B1/CG-502.



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

GEOMETRY, RIGHT-OF-WAY, AND UTILITY EASEMENT PLAN

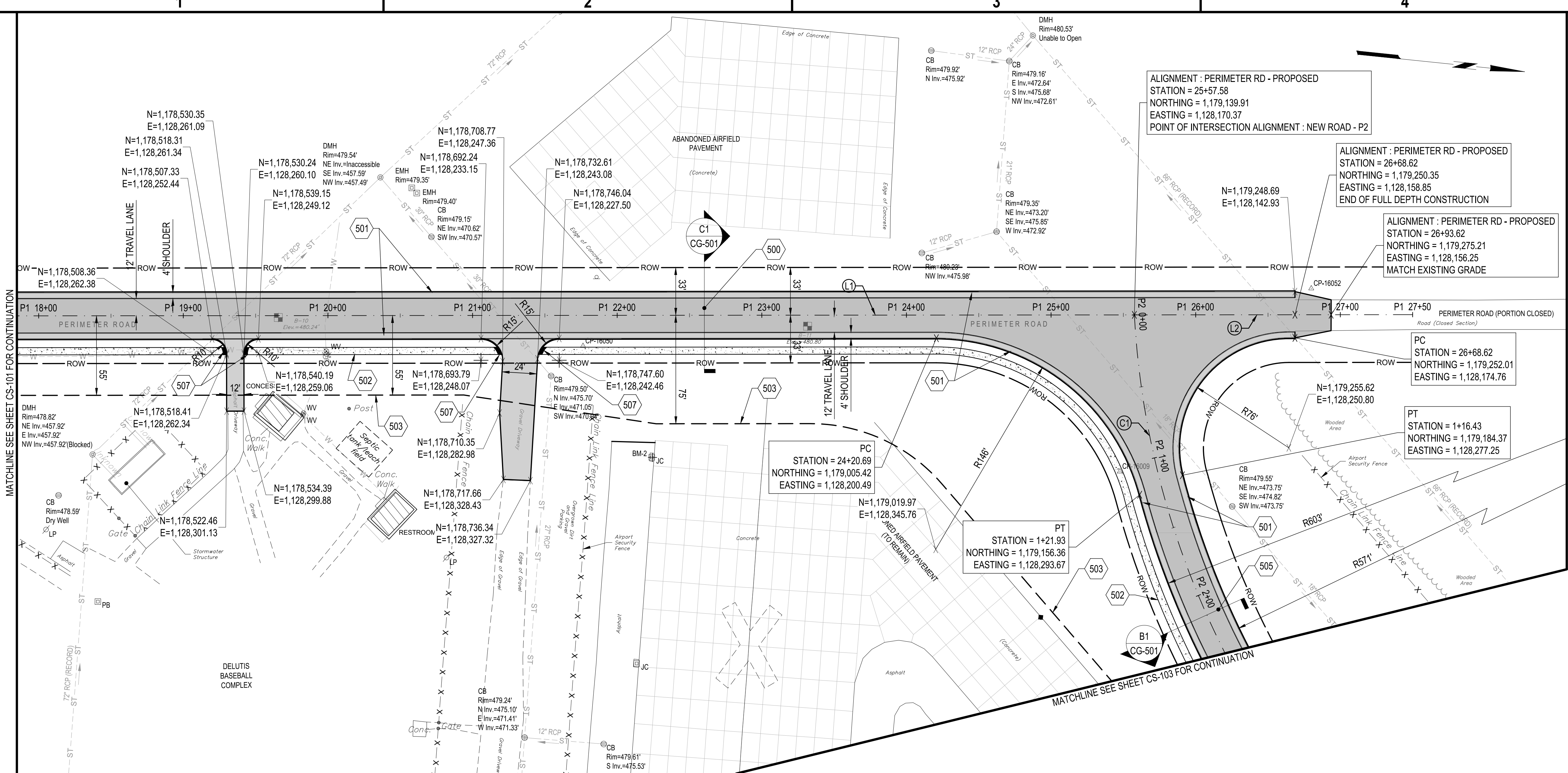
CS-102

SHEET NO. 19 OF 58

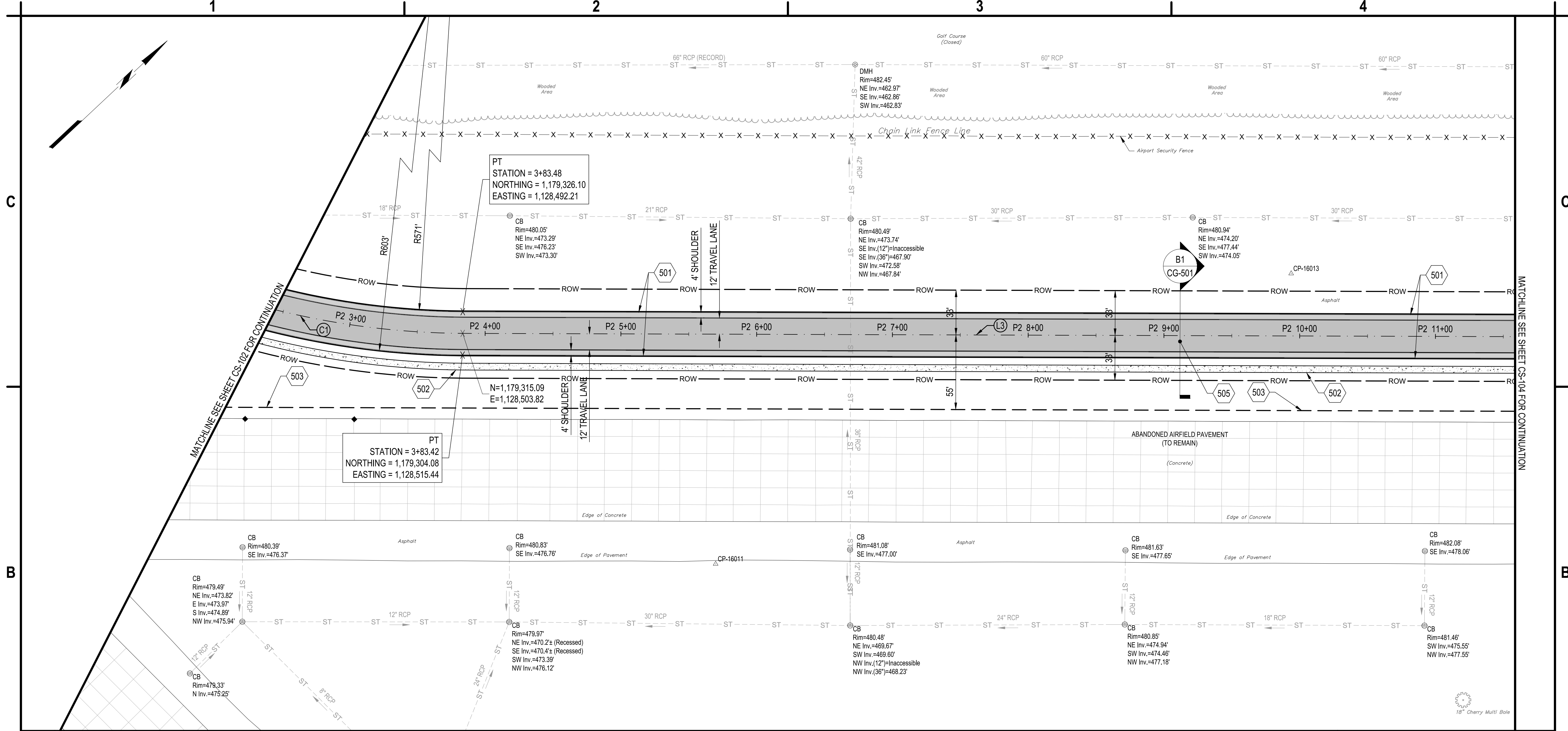
Copyright ©

B1 GEOMETRY, RIGHT-OF-WAY, AND UTILITY EASEMENT PLAN

SCALE: 1"=40'



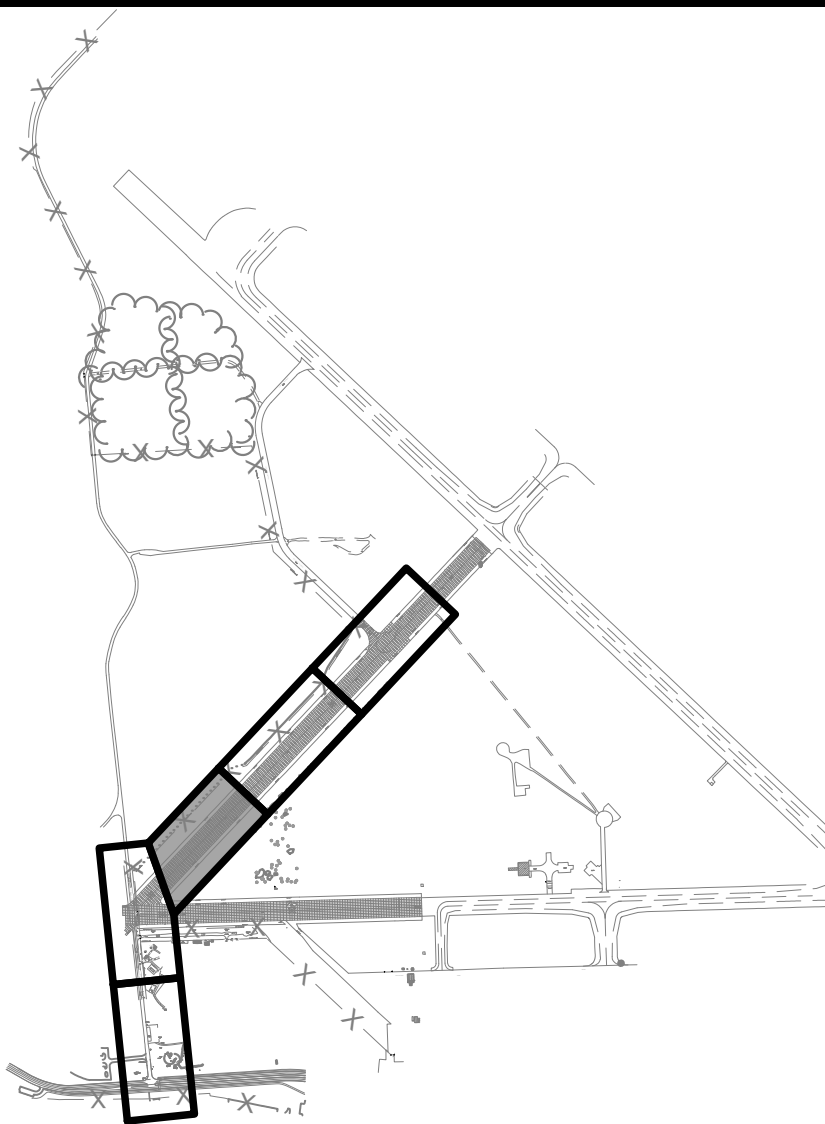
May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CAD\DD\Sheet Files\146205005_CS-Series.dwg



B1 GEOMETRY, RIGHT-OF-WAY, AND UTILITY EASEMENT PLAN
SCALE: 1" = 40'



501. PROPOSED CONCRETE CURB, SEE DETAIL B2/CG-502.
502. PROPOSED CONCRETE SIDEWALK, SEE DETAIL C2/CG-502.
503. PROPOSED UTILITY EASEMENT LIMIT.
505. PROPOSED ASPHALT ROAD PAVEMENT, SEE DETAIL B1/CG-501.

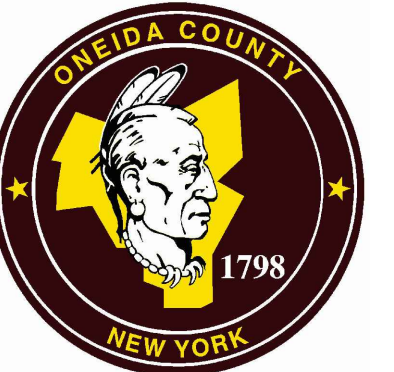


A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

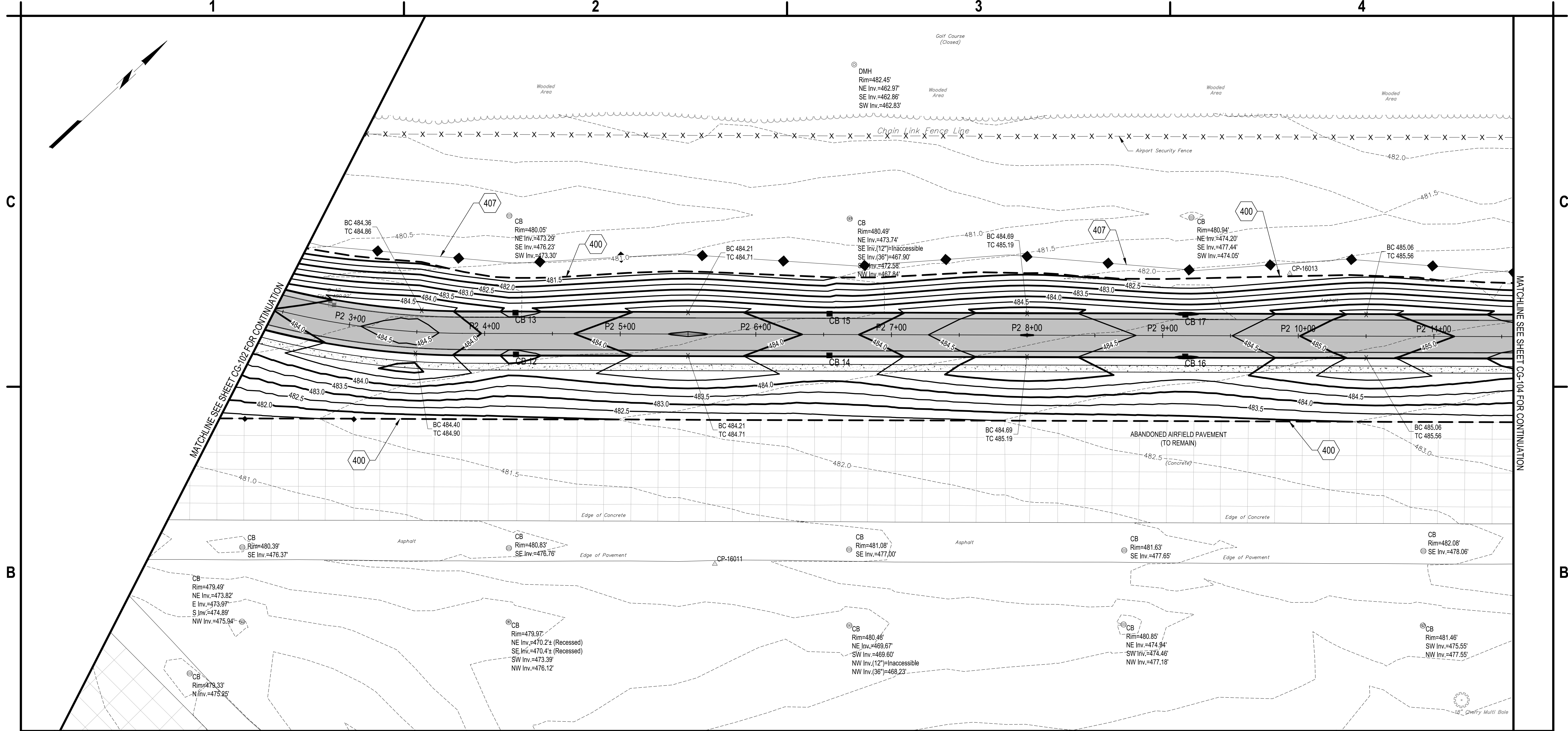
GEOMETRY, RIGHT-OF-WAY, AND UTILITY EASEMENT PLAN

CS-103

SHEET NO. 20 OF 58

Copyright ©

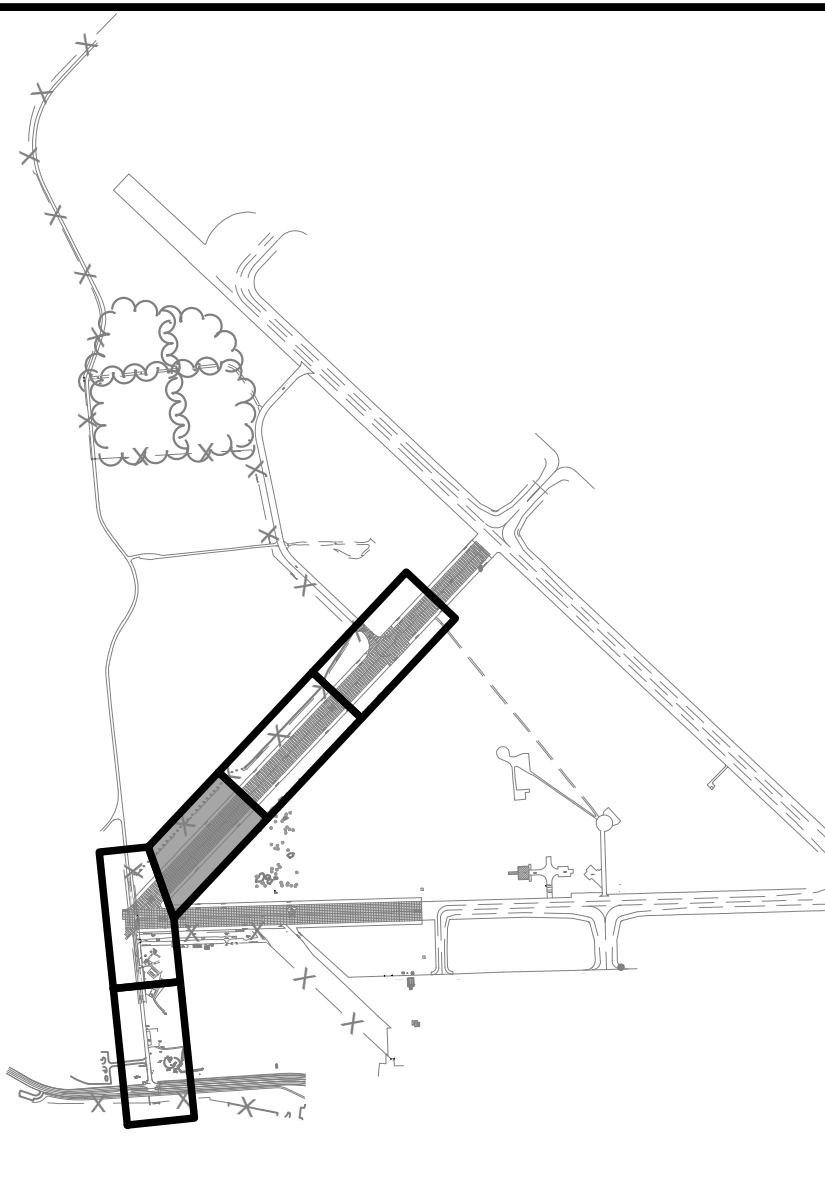
May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CAD\DWG\Sheet Files\146205005_CG-Series.dwg



B1 GRADING PLAN
SCALE: 1" = 40'



400. GRADING LIMIT LINE, MEET EXISTING GRADE FLUSH
407. PROVIDE COMPOST FILTER SOCK, SEE DETAIL A1/CG-502



A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

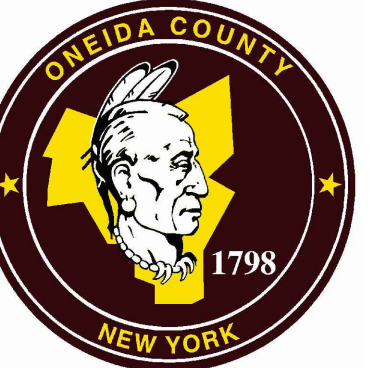
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

**GRADING AND SOIL
EROSION CONTROL
PLAN**

CG-103

SHEET NO. 25 OF 58

Copyright ©



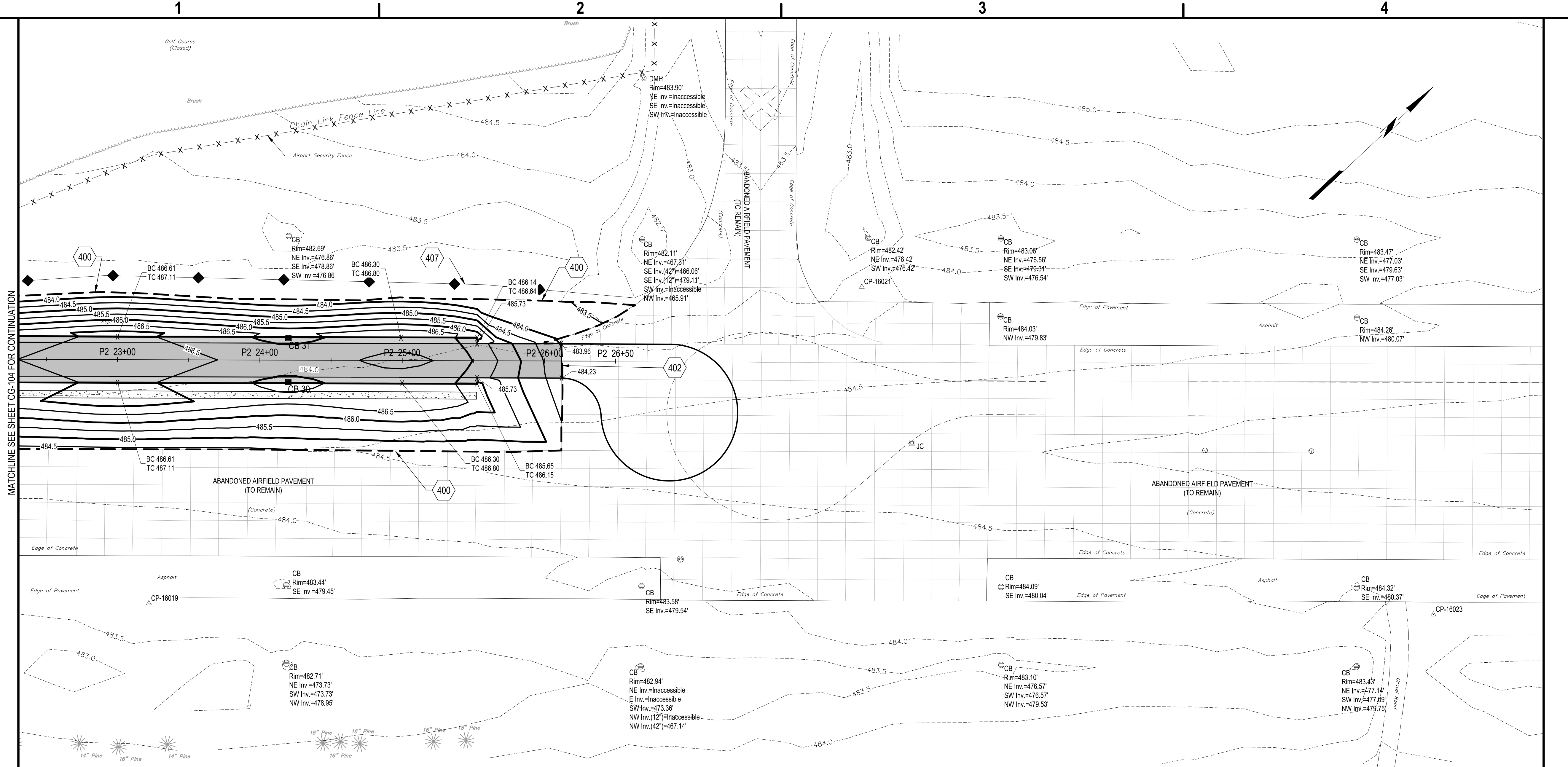
**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

GRADING AND SOIL EROSION CONTROL PLAN

CG-105

SHEET NO. 27 OF 58

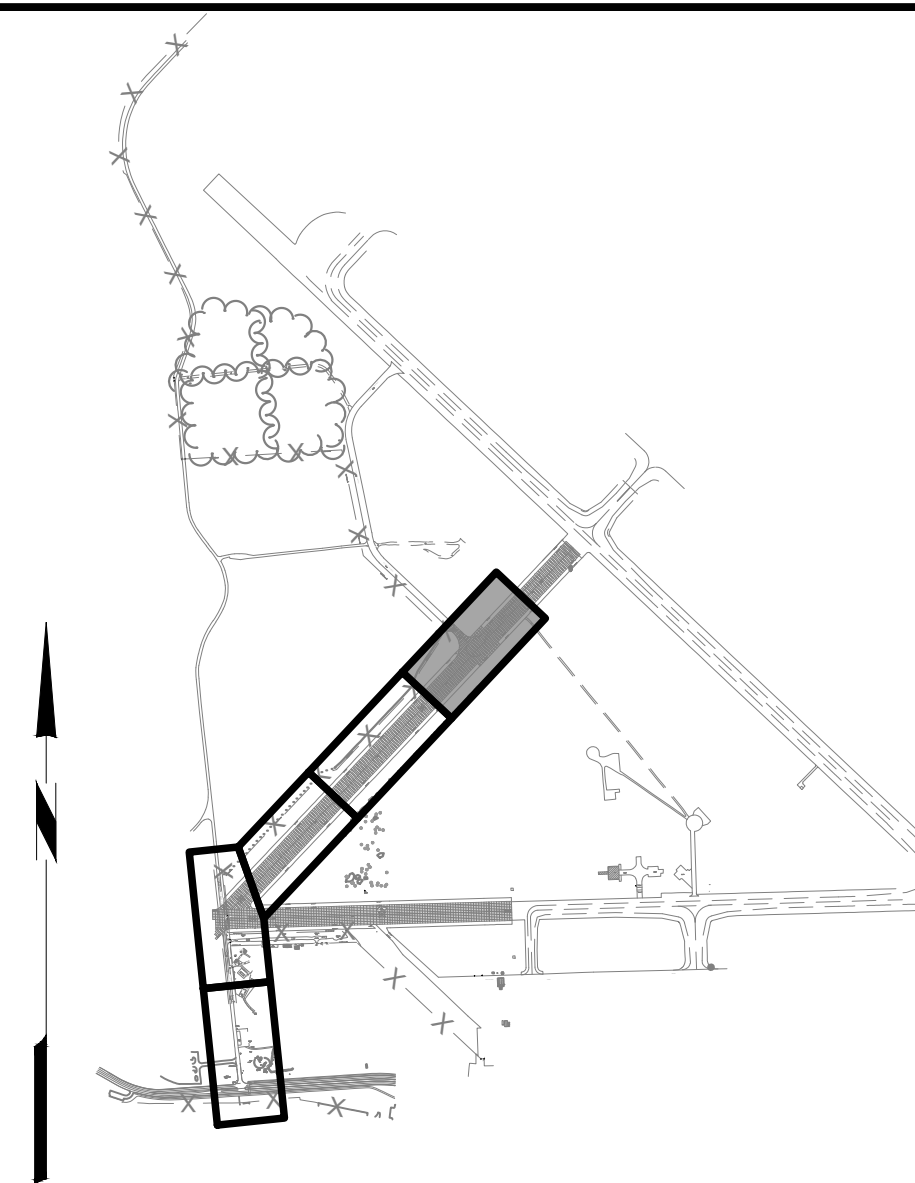


B1	GRADING PLAN
-----------	---------------------

SCALE: 1" = 40'



400. GRADING LIMIT LINE, MEET EXISTING GRADE FLUSH
402. MEET EXISTING PAVEMENT, SEE KEYING DETAIL A2/CG-501
407. PROVIDE COMPOST FILTER SOCK, SEE DETAIL A1/CG-502



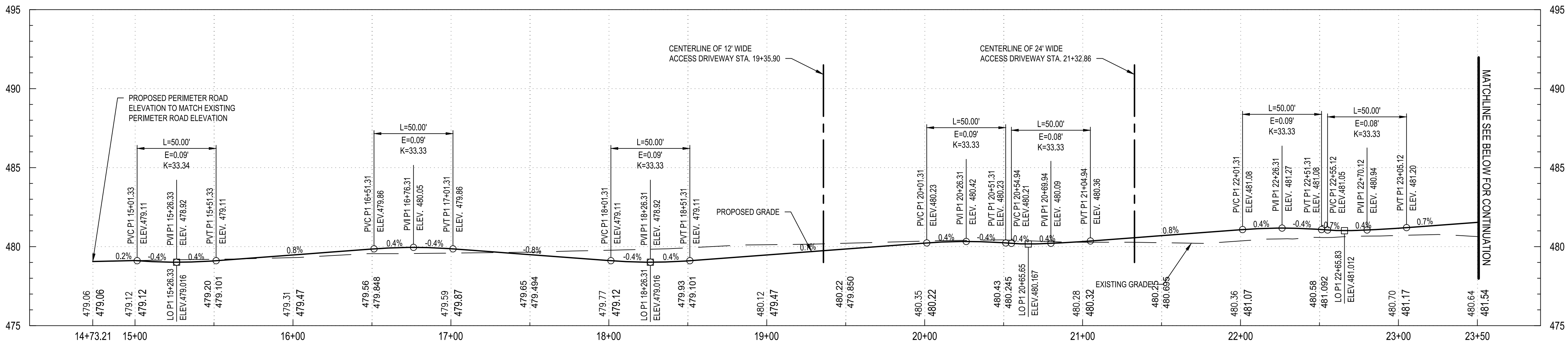
A2	KEY MAP
	SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

A1	KEYED NOTES
-----------	--------------------

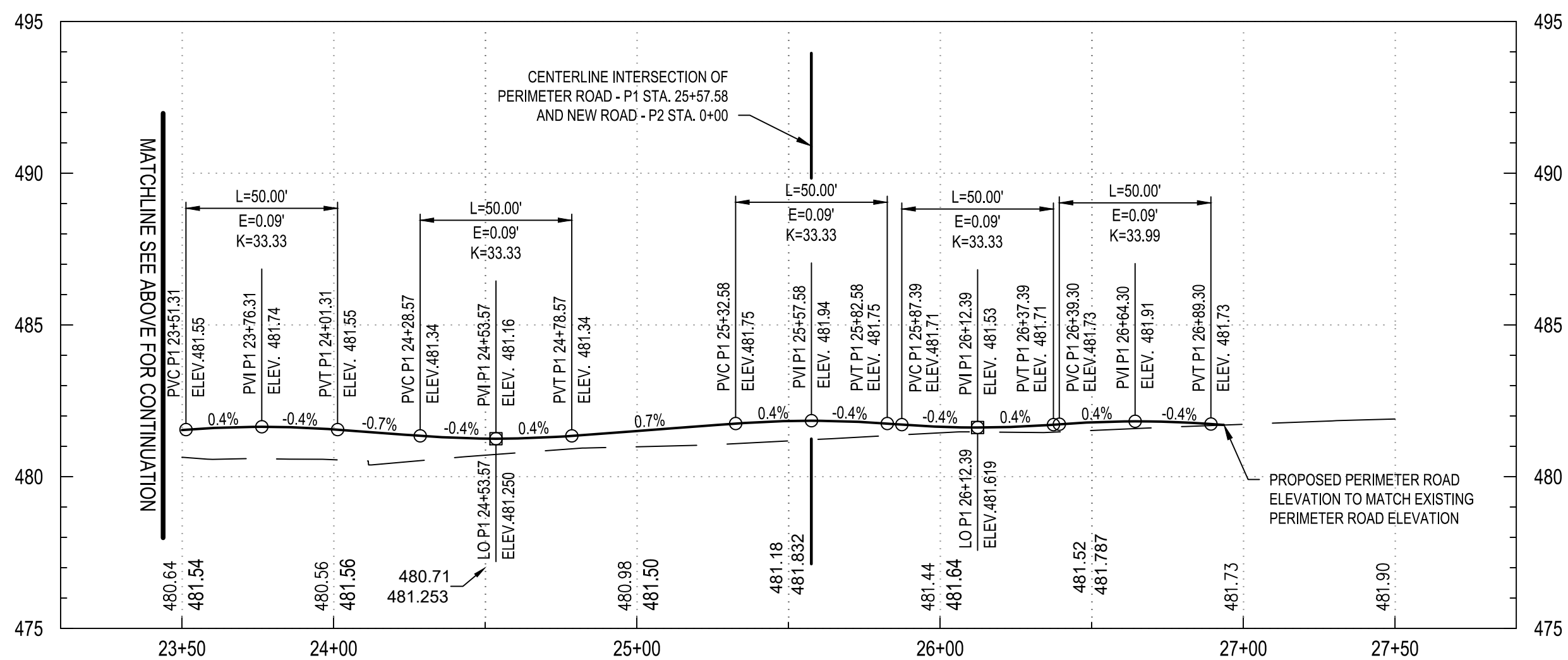
SCALE: NOT TO SCALE

May 05, 2025 - 10:28am
F:\Project\146 - ONEIDA COUNTY\146-05005 - Triangle Development - Access Rd & Utilities Design\CA\DD\Sheet Files\146205005_CG-Series.dwg



B1 ROAD PROFILE - PERIMETER ROAD P1

HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'

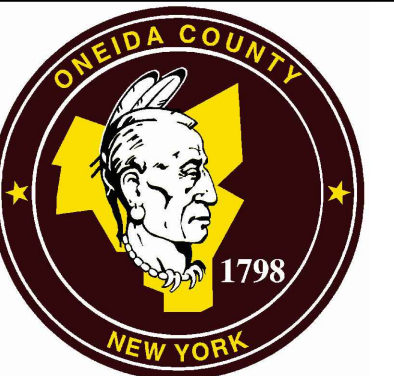
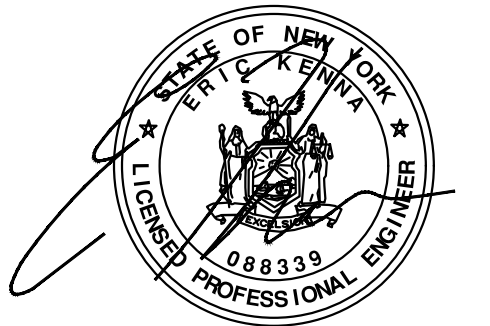


A1 ROAD PROFILE - PERIMETER ROAD P1

HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

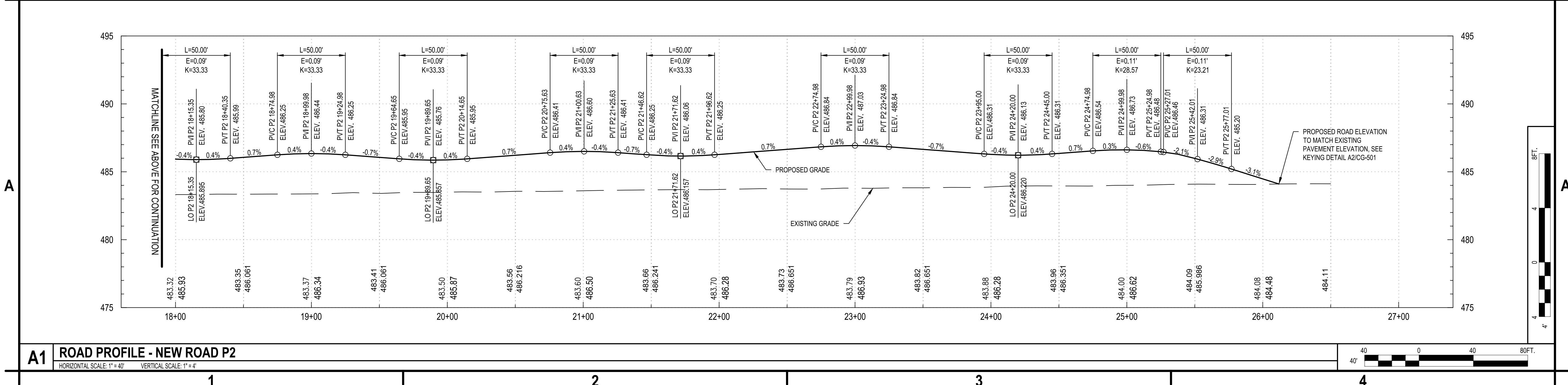
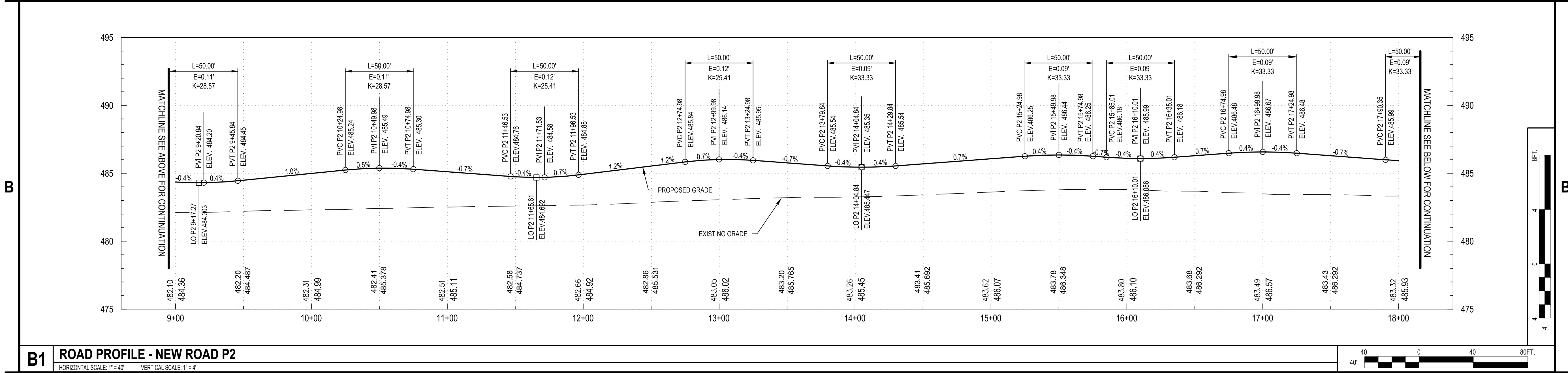
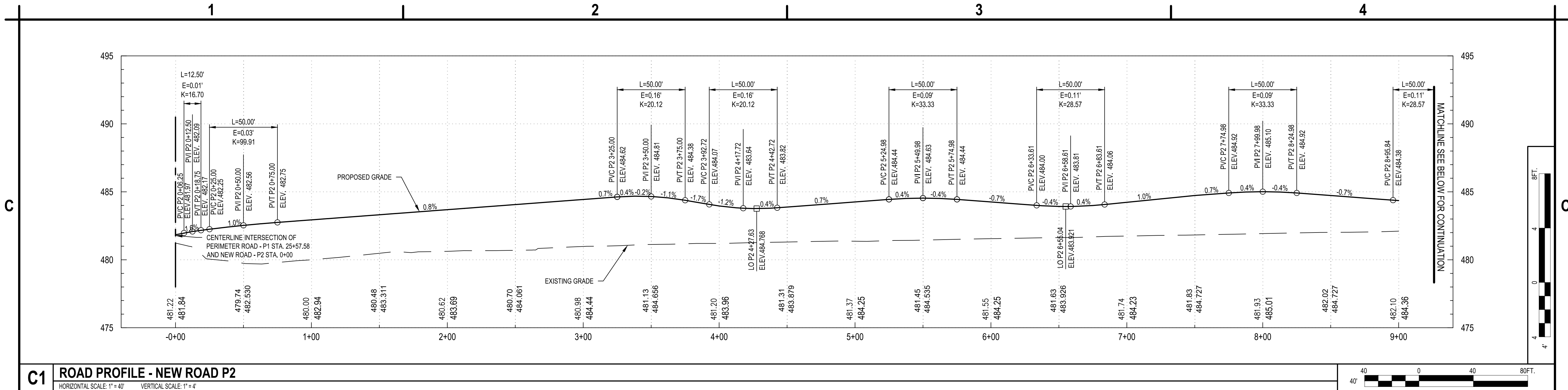
ROAD PROFILE

CG-301

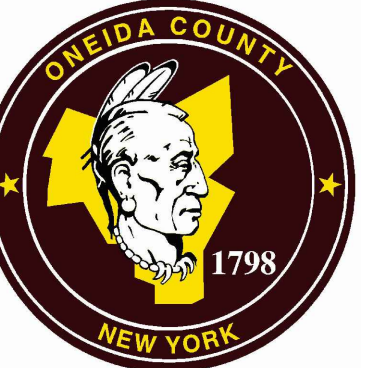
SHEET NO. 28 OF 58

Copyright ©

May 05, 2025 - 10:28am
F:\Project\145 - ONEIDA COUNTY\145205005 - Triangle Development - Access Rd & Utilities\Design\CA\01\Sheet\145205005_CG-Series.dwg



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

ROAD PROFILE

CG-302

SHEET NO. 29 OF 58

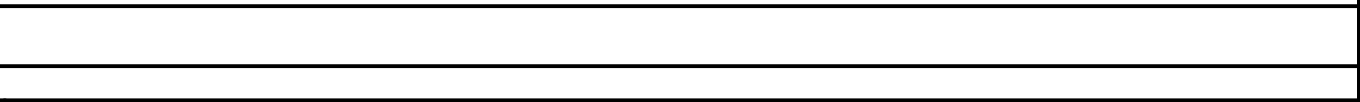
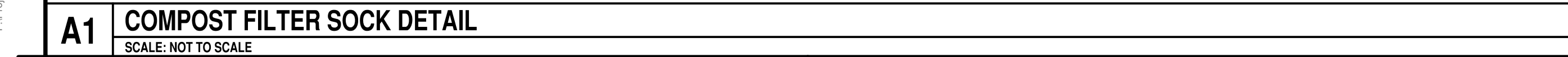
Copyright ©



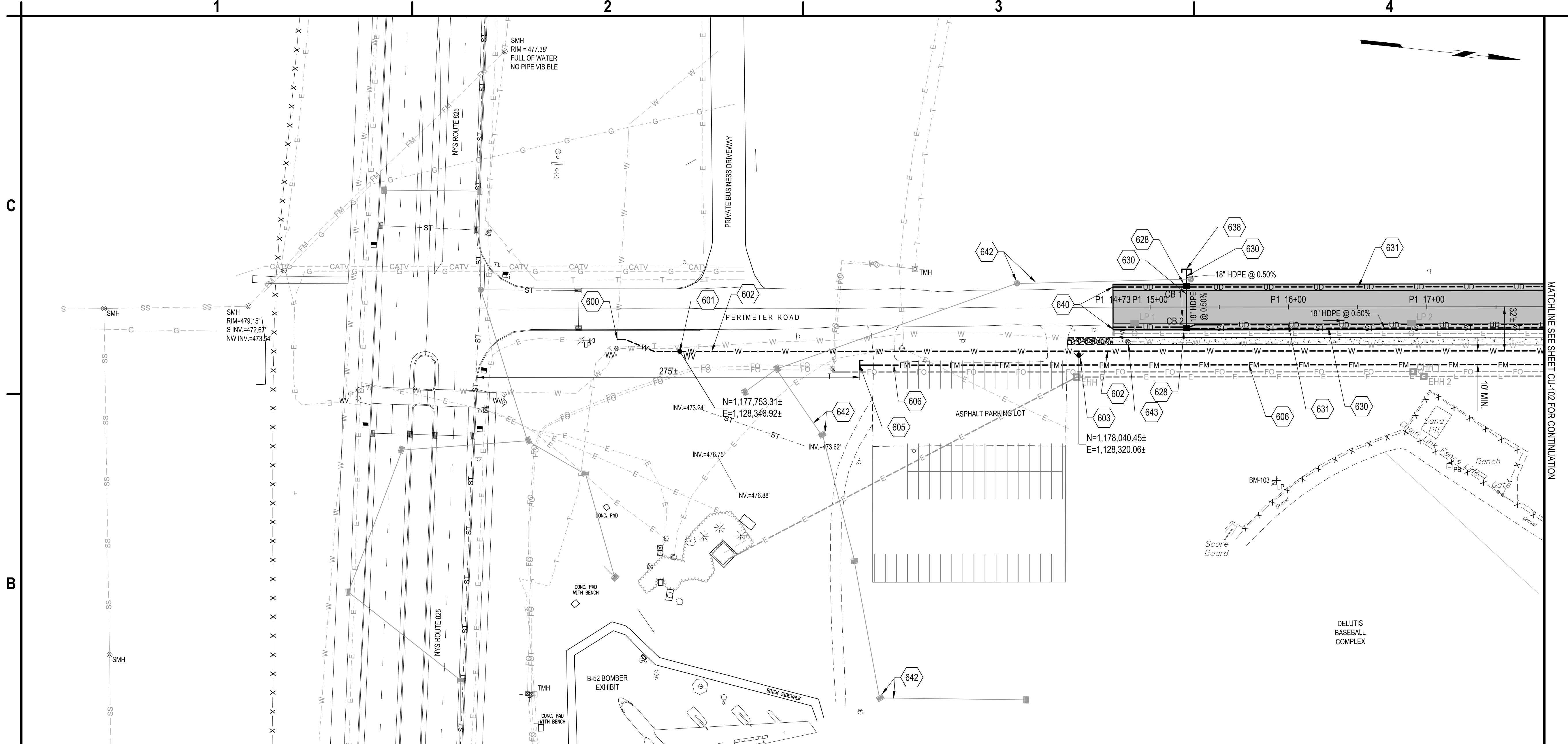
**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

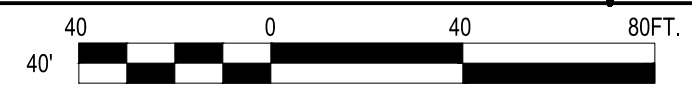
CG-502



May 05, 2022 - 10:30am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CAD\Draw Files\146205005_CU-Series.dwg

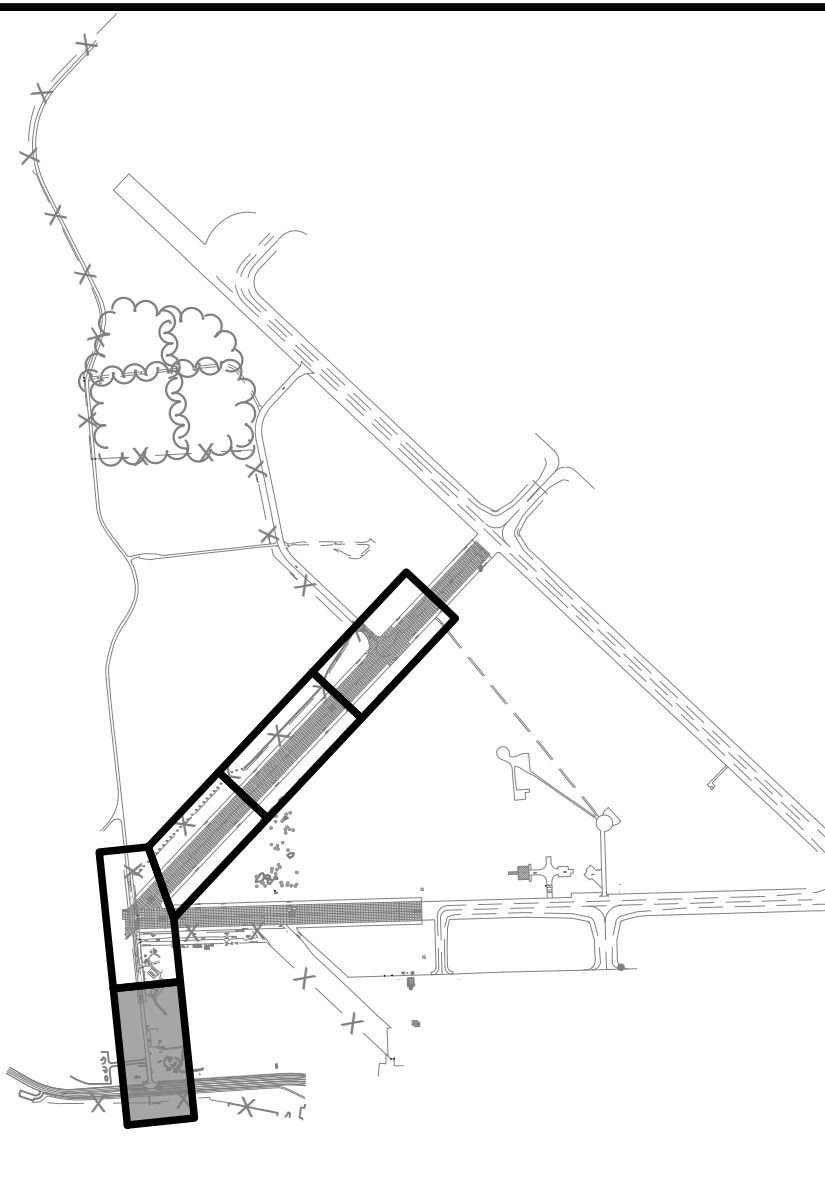


B1 UTILITY PLAN
SCALE: 1" = 40'



600. CONNECT TO EXISTING 12" WATER MAIN WITH TAPPING SLEEVE AND VALVE (CITY OF ROME); SEE DETAIL C1/CU-501.
601. PROPOSED 12" GATE VALVE BOX, ITEM 331000. SEE DETAIL B3/CU-501.
602. PROPOSED 12" DUCTILE IRON WATER MAIN, ITEM 331000. SEE DETAIL A3/CU-501.
603. PROPOSED HYDRANT ASSEMBLY COMPLETE, ITEM 331000. SEE DETAIL B1/CU-501.
605. CAP SANITARY SEWER FORCE MAIN FOR FUTURE CONNECTION.
606. PROPOSED 18" HDPE DR 11 SANITARY SEWER FORCE MAIN, ITEM 333000. SEE DETAIL A3/CU-501.
628. STORMWATER CATCH BASIN, ITEM D-751. SEE DETAIL A1/CU502.
630. CORRUGATED POLYETHYLENE PIPE, TYPE S (SMOOTH INTERIOR), SEE PLANS FOR SIZE, ITEM D-701. SEE TRENCHING DETAIL B3/CU502.
631. 4-INCH PERFORATED CORRUGATED PE DRAINAGE TUBING UNDERDRAIN, ITEM D-705 (TYP.), SEE DETAIL A4/CU502.
638. CAP 18" HDPE STORM SEWER AND STAKE LOCATION IN FIELD (FOR FUTURE USE).
640. CAP UNDERDRAIN PIPE ENDS (TYP.)
642. FUTURE STORM SEWER SYSTEM (BY OTHERS)
643. ADJUST EXISTING WATER VALVE BOX AND OR WATER HYDRANT TO PROPOSED FINISHED GRADE, ITEM 333000.

A1 KEYED NOTES
SCALE: NOT TO SCALE



A2 KEY MAP
SCALE: NOT TO SCALE

- NOTES:**
- A. GENERAL COORDINATES HAVE BEEN SHOWN TO THE CENTER OF IN-PAVEMENT CATCH BASINS. THE CONTRACTOR SHALL ENSURE EXACT PLACEMENT AND ALIGNMENT OF INLETS AS IT RELATES TO THE EDGE OF PAVEMENT AND CURB BOX.
- B. THE LOCATION OF SANITARY SEWER FORCE MAIN AND WATER MAIN ARE APPROXIMATE ONLY. THE LOCATION AND DEPTH MAY BE FIELD ADJUSTED AS NECESSARY TO AVOID CONFLICTS WHILE REMAINING WITHIN THE UTILITY CORRIDOR. MAINTAIN MINIMUM PIPE COVER DEPTHS FOR FROST PROTECTION.

A3 SHEET NOTES
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

UTILITY PLAN

CU-101

SHEET NO. 32 OF 58

Copyright ©



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. CRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

CU-105



SCALE: 1" = 40'

601. PROPOSED 12" GATE VALVE BOX, ITEM 331000. SEE DETAIL B3/CU-501.
602. PROPOSED 12" DUCTILE IRON WATER MAIN, ITEM 331000. SEE DETAIL A3/CU-501.
603. PROPOSED HYDRANT ASSEMBLY COMPLETE, ITEM 331000. SEE DETAIL B1/CU-501.
604. PROPOSED WATER MAIN CAPPED FOR FUTURE CONNECTION.
609. PROPOSED 18" PVC SANITARY SEWER AT 0.30% SLOPE, ITEM 333000.
610. PROPOSED 4' DIA. SANITARY MANHOLE, ITEM D-751. SEE DETAIL C3/CU-501.
627. CAP GRAVITY SEWER 5' OUTSIDE MANHOLE FOR FUTURE CONNECTION.
628. STORMWATER CATCH BASIN, ITEM D-751. SEE DETAIL A1/CU502.
629. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE, NON-SHRINK GROUT WATERTIGHT, INCIDENTAL TO ITEM D-701.
630. CORRUGATED POLYETHYLENE PIPE, TYPE S (SMOOTH INTERIOR), SEE PLANS FOR SIZE, ITEM D-701. SEE TRENCHING DETAIL B3/CU502.
635. FUTURE PVC SANITARY SEWER EXTENSION (BY OTHERS).
636. FUTURE 4' DIA. SANITARY MANHOLE (BY OTHERS).
637. FUTURE UTILITY CORRIDOR BY OTHERS.



SCALE: NOT TO SCALE

- NOTES:**
- A. GENERAL COORDINATES HAVE BEEN SHOWN TO THE CENTER OF IN-PAVEMENT CATCH BASINS. THE CONTRACTOR SHALL ENSURE EXACT PLACEMENT AND ALIGNMENT OF INLETS AS IT RELATES TO THE EDGE OF PAVEMENT AND CURB BOX.
- B. THE LOCATION OF SANITARY SEWER FORCE MAIN AND WATER MAIN ARE APPROXIMATE ONLY. THE LOCATION AND DEPTH MAY BE FIELD ADJUSTED AS NECESSARY TO AVOID CONFLICTS WHILE REMAINING WITHIN THE UTILITY CORRIDOR. MAINTAIN MINIMUM PIPE COVER DEPTHS FOR FROST PROTECTION.

SHEET NOTES

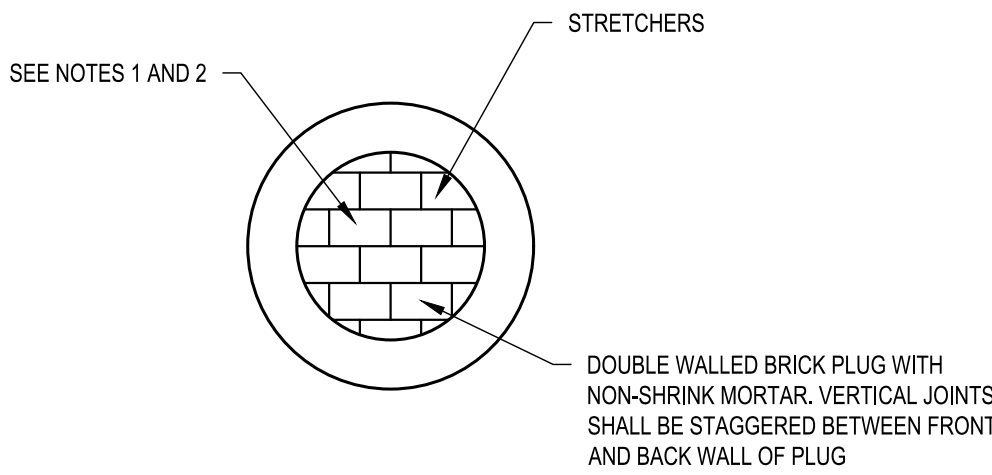
SCALE: NOT TO SCALE

May 05, 2025 - 10:31am
F:\Project\145 - ONEIDA COUNTY\145-0505 - Triangle Development - Access Rd & Utilities\Design\CA\DD\Sheet Files\1450505_05_CU-Details.dwg

DRAINAGE MANHOLE TABLE								
STRUCTURE NUMBER	NORTHING	EASTING	RIM	INVERT	INVERT	INVERT	INVERT	INVERT
DMH 1	1,179,035.44	1,128,167.63	480.89	15" INV 475.20 (S)	15" INV 475.20 (W)	4" INV 477.89 (S)	15" INV 475.77 (NE)	4" INV 477.89 (N)
DMH 2	1,179,090.93	1,128,215.39	480.39	15" INV 475.99 (N)	15" INV 475.99 (SW)	4" INV 477.39 (SW)	4" INV 477.39 (NE)	
DMH 3	1,179,191.62	1,128,205.46	481.08	15" INV 476.29 (S)	15" INV 476.29 (W)	4" INV 478.08 (NW)	4" INV 478.08 (SE)	

STORMWATER CATCH BASIN TABLE								
STRUCTURE NUMBER	NORTHING	EASTING	RIM	INVERT	INVERT	INVERT	INVERT	INVERT
CB 1	1,178,112.63	1,128,262.08	478.65	18" INV 468.51 (E)	18" INV 468.51 (W)	4" INV 475.65 (N)	4" INV 475.65 (S)	
CB 2	1,178,115.81	1,128,292.62	478.65	18" INV 468.36 (W)	18" INV 468.36 (N)	4" INV 475.65 (N)	4" INV 475.65 (S)	
CB 3	1,178,410.99	1,128,230.96	478.65	15" INV 473.85 (E)	4" INV 475.65 (N)	4" INV 475.65 (S)		
CB 4	1,178,414.18	1,128,261.50	478.65	15" INV 473.76 (W)	18" INV 466.86 (S)	18" INV 466.86 (E)	4" INV 475.65 (N)	4" INV 475.65 (S)
CB 5	1,178,651.90	1,128,236.70	479.81	15" INV 475.01 (W)	4" INV 476.81 (N)	4" INV 476.81 (S)		
CB 6	1,178,648.72	1,128,206.17	479.81	15" INV 474.92 (E)	4" INV 476.81 (N)	15" INV 474.92 (W)	4" INV 476.81 (S)	
CB 7	1,178,850.91	1,128,215.95	480.66	15" INV 475.86 (W)	4" INV 477.66 (N)	4" INV 477.66 (S)		
CB 8	1,178,847.72	1,128,185.41	480.66	15" INV 475.77 (E)	15" INV 475.77 (N)	4" INV 477.66 (N)	4" INV 477.66 (S)	
CB 9	1,179,190.08	1,128,149.70	481.26	15" INV 476.46 (E)	4" INV 478.26 (N)	4" INV 478.26 (S)		
CB 10	1,179,171.53	1,128,328.25	483.01	15" INV 478.21 (NW)	4" INV 480.01 (W)			
CB 11	1,179,199.46	1,128,315.53	483.02	15" INV 478.12 (SE)	15" INV 477.77 (NW)	4" INV 480.02 (SW)		
CB 12	1,179,333.41	1,128,542.25	483.38	15" INV 479.24 (NW)				
CB 13	1,179,354.17	1,128,519.63	483.38	15" INV 479.14 (SE)	15" INV 477.80 (NW)			
CB 14	1,179,501.44	1,128,701.00	483.56	15" INV 479.43 (NW)				
CB 15	1,179,522.51	1,128,678.68	483.56	15" INV 479.34 (SE)	15" INV 477.71 (NW)			
CB 16	1,179,692.14	1,128,881.18	483.94	15" INV 479.81 (NW)				
CB 17	1,179,713.23	1,128,858.87	483.94	15" INV 479.72 (SE)	15" INV 478.52 (NW)			
CB 18	1,179,870.83	1,129,050.00	484.33	15" INV 480.20 (NW)				
CB 19	1,179,891.91	1,129,027.69	484.33	15" INV 480.11 (SE)	15" INV 479.34 (NW)			
CB 20	1,180,046.99	1,129,216.45	485.09	15" INV 480.95 (NW)				
CB 21	1,180,068.08	1,129,194.13	485.09	15" INV 480.86 (SE)	15" INV 479.50 (NW)	15" INV 480.88 (NE)		
CB 22	1,180,196.13	1,129,357.35	485.72	15" INV 481.59 (NW)				
CB 23	1,180,217.21	1,129,335.03	485.72	15" INV 481.50 (SE)	15" INV 481.50 (SW)			
CB 24	1,180,345.38	1,129,498.36	485.53	15" INV 481.40 (NW)				
CB 25	1,180,366.47	1,129,476.05	485.53	15" INV 481.31 (SE)	15" INV 479.99 (NW)			
CB 26	1,180,472.08	1,129,618.07	485.50	15" INV 481.36 (NW)				
CB 27	1,180,493.16	1,129,595.75	485.50	15" INV 481.27 (SE)	15" INV 480.06 (NW)			
CB 28	1,180,604.35	1,129,743.04	485.80	15" INV 481.66 (NW)				
CB 29	1,180,625.44	1,129,720.72	485.80	15" INV 481.57 (SE)	15" INV 480.45 (NW)			
CB 30	1,180,784.90	1,129,913.62	485.86	15" INV 481.75 (NW)				
CB 31	1,180,805.98	1,129,891.30	485.86	15" INV 481.66 (SE)	15" INV 480.30 (NW)			

SANITARY MANHOLE TABLE				
STRUCTURE NUMBER	NORTHING	EASTING	RIM	INVERT
SMH 1	1,179,128.03	1,128,313.37	482.88	INV 463.95
SMH 2	1,179,207.34	1,128,459.80	482.85	INV 464.45
SMH 3	1,179,425.40	1,128,665.83	484.24	INV 465.35
SMH 4	1,179,707.40	1,128,932.26	484.63	INV 466.51
SMH 5	1,179,989.39	1,129,198.69	485.59	INV 467.68
SMH 6	1,180,271.38	1,129,465.11	486.08	INV 468.84
SMH 7	1,180,553.37	1,129,731.53	486.17	INV 470.00
SMH 8	1,180,722.43	1,129,891.26	486.37	INV 470.70
SMH 9	1,180,891.46	1,130,050.90	485.33	INV 471.40



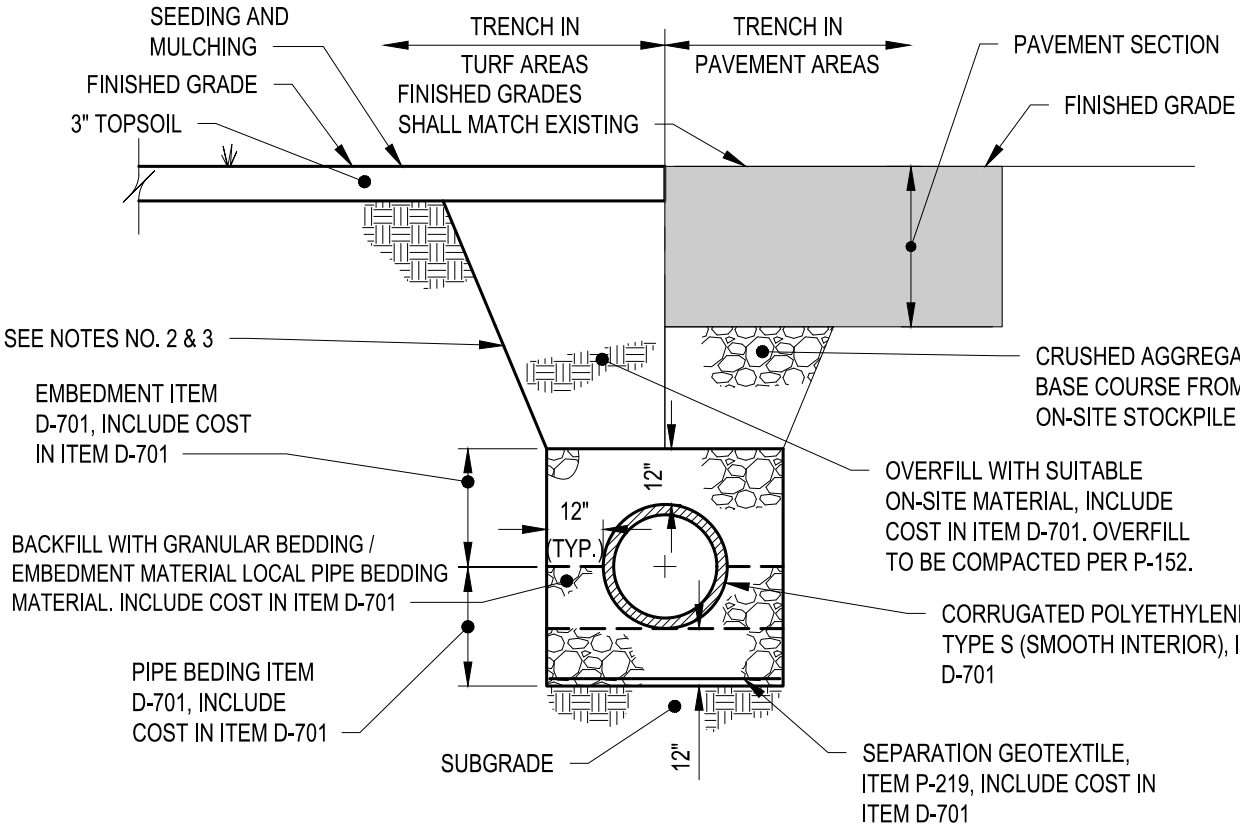
- NOTES:
- HEIGHT OF PLUG SHALL BE FULL HEIGHT UNLESS OTHERWISE NOTED OR ORDERED BY THE ENGINEER.
 - ABANDONED PIPES SHALL BE FILLED WITH FLOWABLE FILL AS ORDERED BY THE ENGINEER.

C4 TYPICAL BULKHEAD DETAIL

NOT TO SCALE

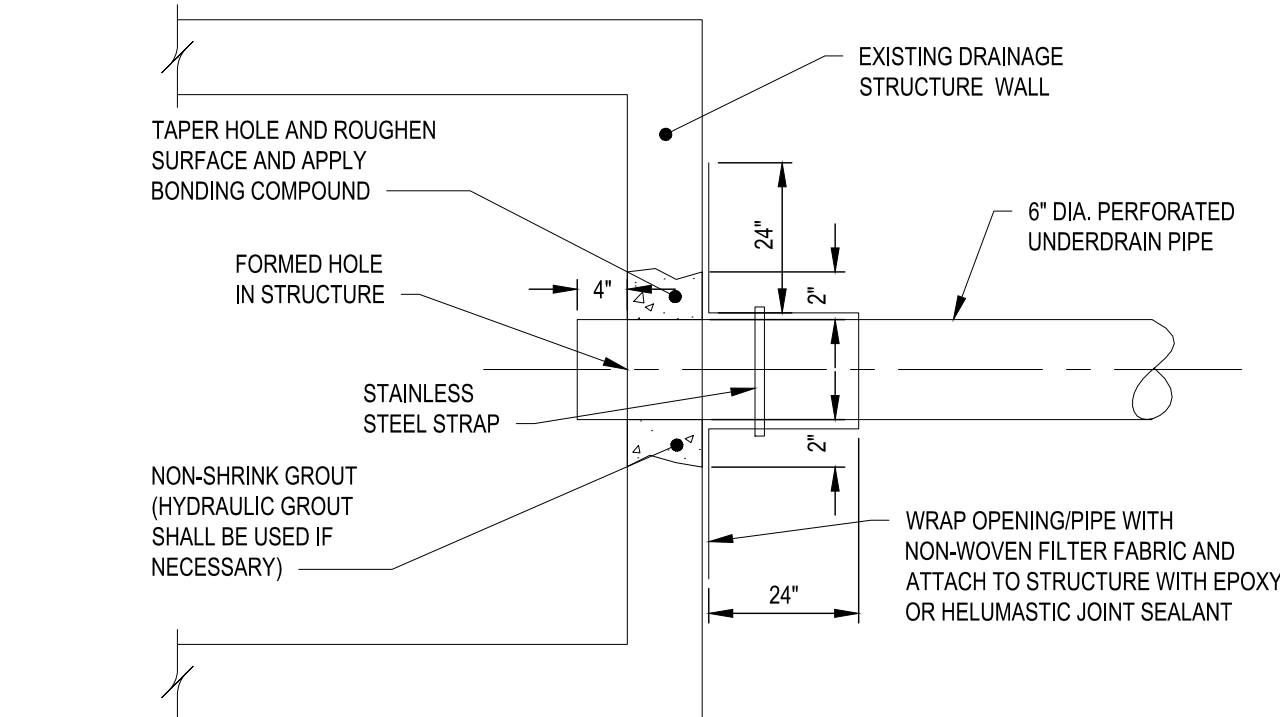
NOTES:

- PIPE BEDDING / SPECIAL BACK FILL EMBEDMENT AND SEPARATION GEOTEXTILE SHALL BE INCLUDED IN THE COST OF THE PIPE.
- EXCAVATIONS, TRENCHING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
- EXCAVATIONS SHALL NOT UNDERMINE EXISTING PAVEMENTS, STRUCTURES OR UTILITIES.
- SEPARATE PIPES IN A COMMON TRENCH BY A MINIMUM OF 24".
- SEE PLANS FOR PIPE SIZES.



B3 POLYETHYLENE PIPE TRENCHING DETAIL

SCALE: NOT TO SCALE



NOTES:

- WHERE REQUIRED, CONTRACTOR SHALL PROVIDE WYE JOINTS TO CONNECT UNDERDRAIN PIPE TO INLET STRUCTURE AT SPECIFIED ELEVATION.
- NO SEPARATE PAYMENT WILL BE MADE FOR UNDERDRAIN CONNECTIONS.

B4 UNDERDRAIN CONNECTION TO STRUCTURE

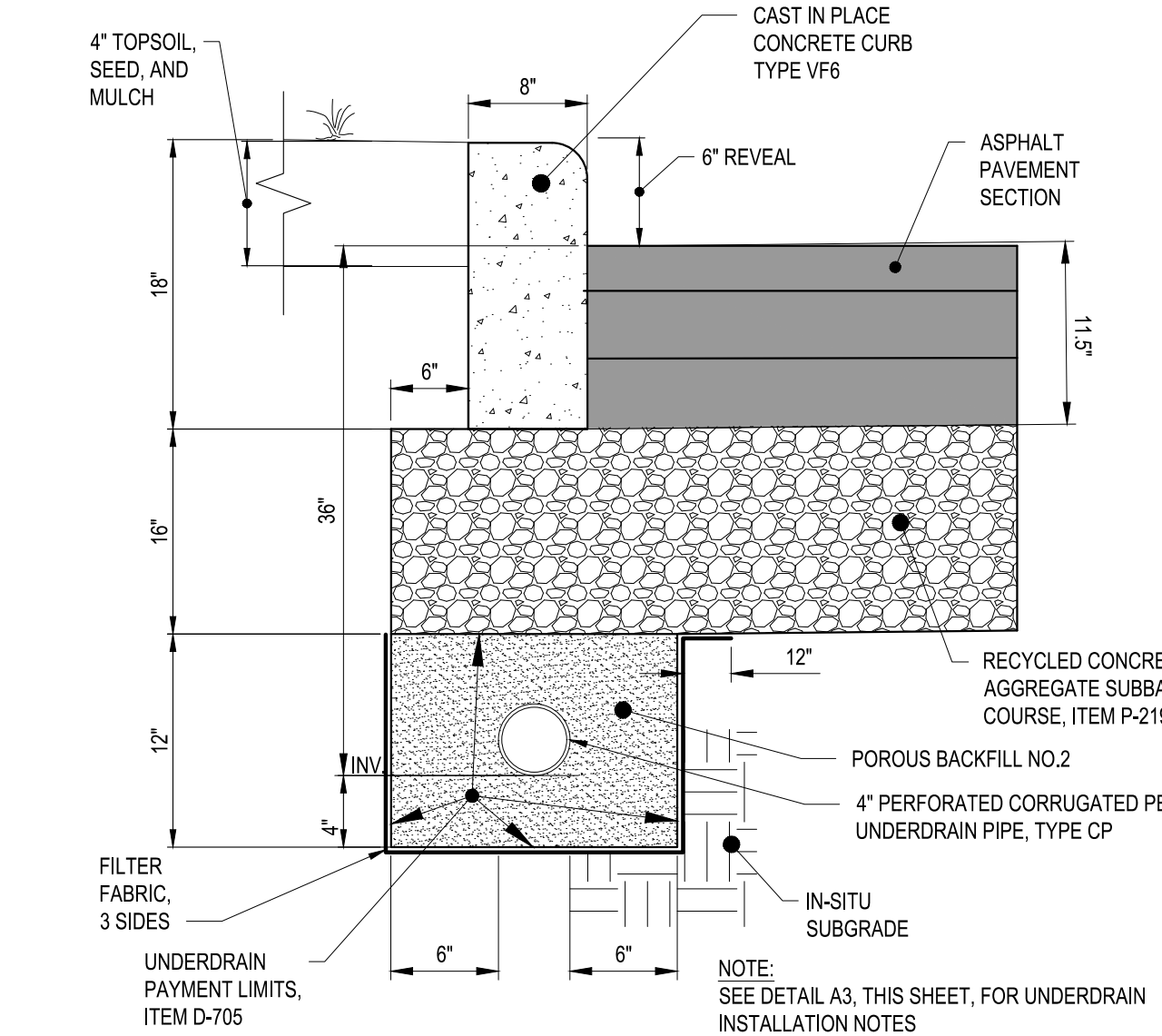
SCALE: NOT TO SCALE

UNDERDRAIN NOTES:

- UNDERDRAINS SHOULD BE INSTALLED PRIOR TO COMPACTING PAVEMENT SUBGRADE.
- THE CONTRACTOR SHALL PROTECT THE POROUS BACKFILL WITH FILTER FABRIC AS NECESSARY TO PREVENT THE INFILTRATION OF FINE MATERIAL INTO THE POROUS BACKFILL. THE SUBBASE MATERIAL SHALL BE IN DIRECT CONTACT WITH THE POROUS BACKFILL FOR ITS ENTIRE WIDTH.
- IN TURF AREAS, UNDERDRAIN PIPE SHALL BE INSTALLED SUCH THAT THE INVERT OF THE UNDERDRAIN PIPE SHALL BE A MINIMUM OF 6-INCHES BELOW SUBGRADE. IN PAVEMENT AREAS, THE PIPE INVERT SHALL BE PLACED A MINIMUM OF 4" BELOW SUBGRADE. THE CONTRACTOR SHALL ADJUST THE INVERTS FROM WHAT THE UNDERDRAIN INSTALLATION SCHEDULE SHOWS IF REQUIRED TO MEET THIS REQUIREMENT.
- EXCAVATION OF UNDERDRAIN PIPE ADJACENT TO EXISTING PAVEMENT EDGES SHALL NOT UNDERMINE THE EXISTING PAVEMENT SECTION. IF UNDERMINING OCCURS, THE OFFSET OF THE TRENCH SHALL BE INCREASED.
- UNDERDRAIN PIPE, POROUS BACKFILL, FILTER FABRIC AND EXCAVATION SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN.
- EXCAVATIONS, TRENCHING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
- EXCAVATIONS SHALL NOT UNDERMINE EXISTING PAVEMENTS, STRUCTURES OR UTILITIES.

A3 UNDERDRAIN NOTES

SCALE: NOT TO SCALE

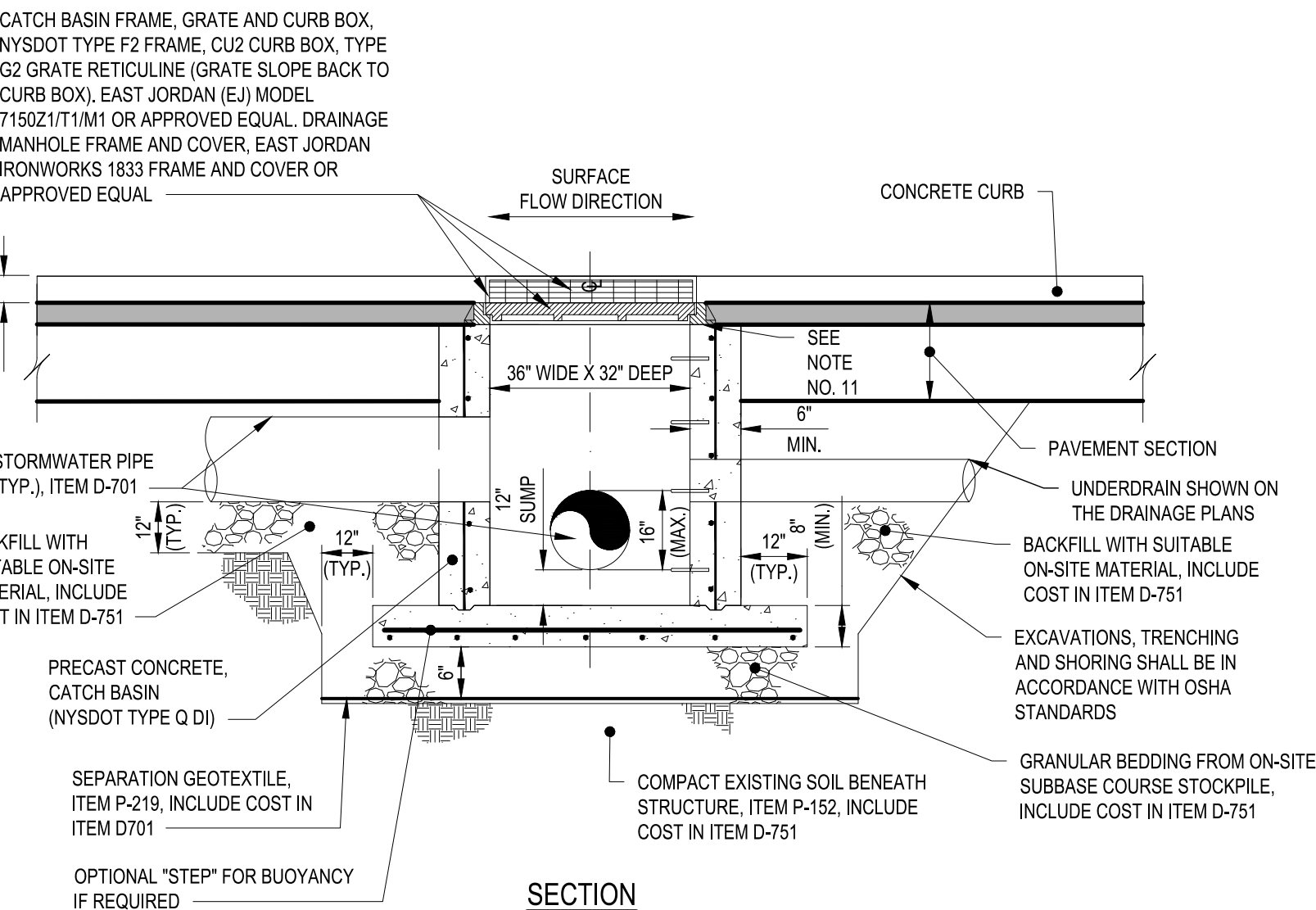


A4 EDGE OF PAVEMENT UNDERDRAIN DETAIL

SCALE: NOT TO SCALE

B1 DRAINAGE STRUCTURE DATA TABLES

SCALE: NOT TO SCALE

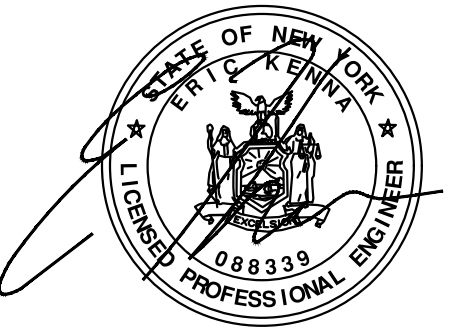


A1 PRECAST STORMWATER MANHOLE/CATCH BASIN DETAIL

SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:		146.205.005
DATE:		MAY 2, 2025
DRAWN BY:		B. BUCKINGHAM
DESIGNED BY:		C. BRUBACH
CHECKED BY:		E. N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

DRAINAGE DETAILS

CU-502

SHEET NO. 38 OF 58

Copyright ©



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: F. K. NEILEY, P.E.		
DESIGNED BY: F. K. NEILEY, P.E.		
CHECKED BY: S. SHOVA		

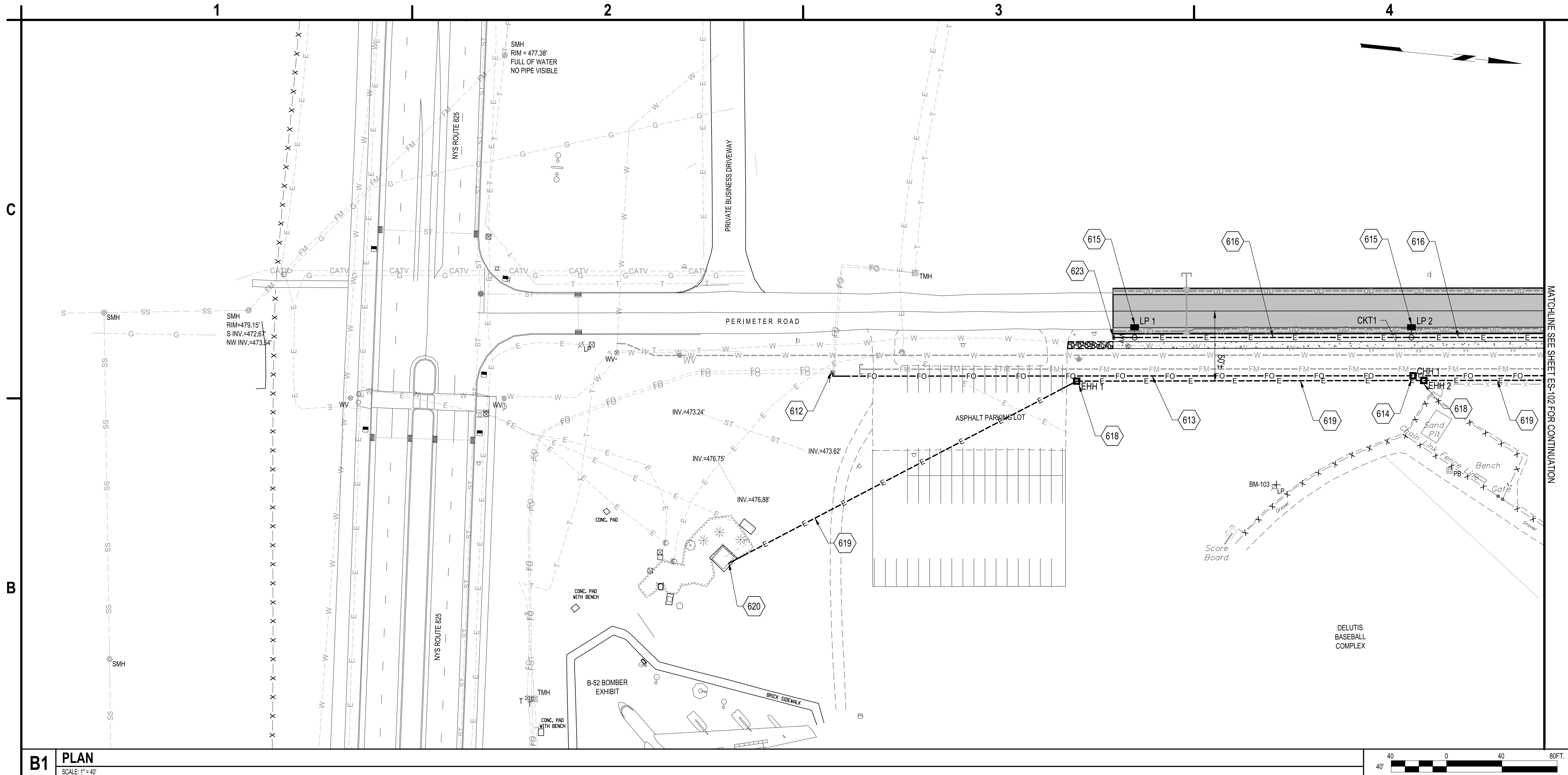
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

ELECTRICAL SITE PLAN

ES-101

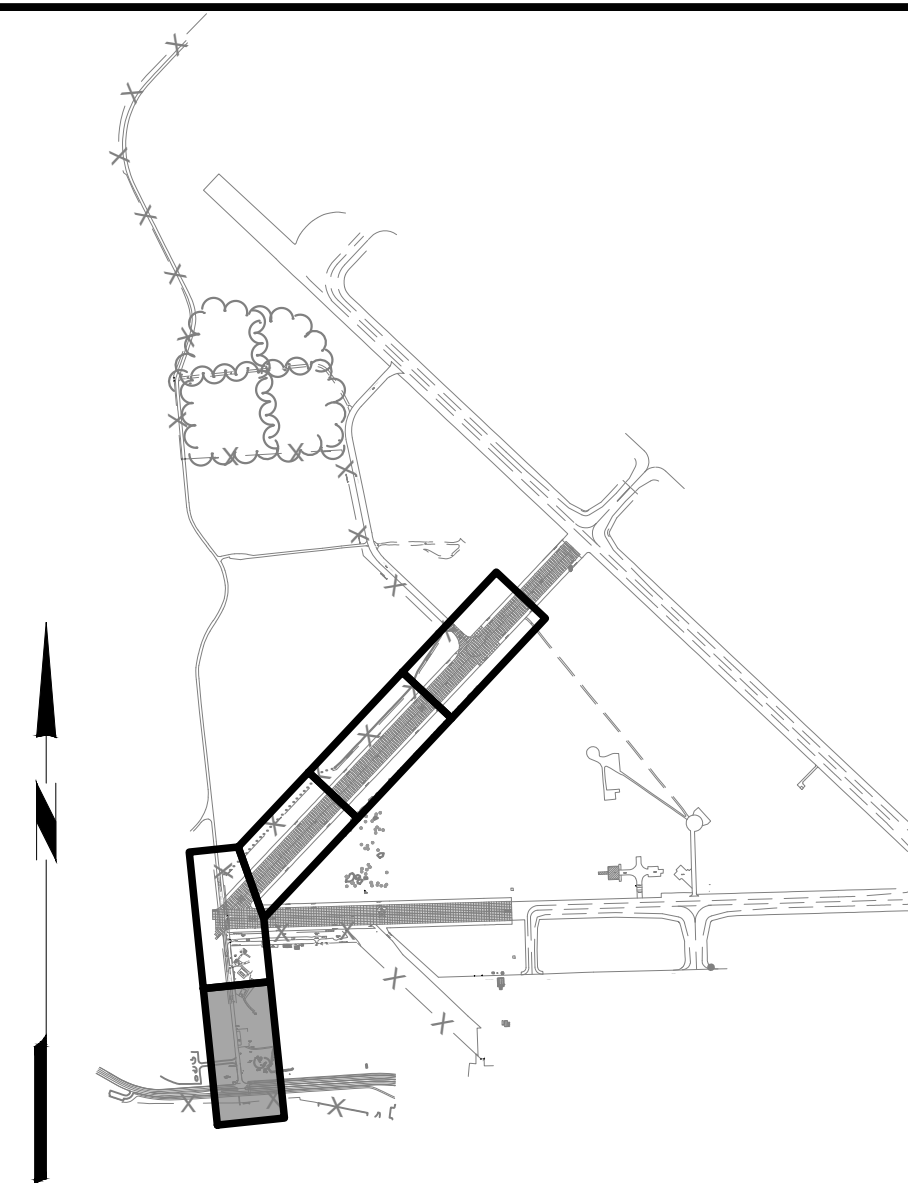
SHEET NO. 39 OF 58

Copyright ©



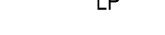
B1	PLAN
-----------	-------------

2. CONNECT CONDUITS TO EXISTING FIBER OPTIC CABINET USING UL APPROVED CONNECTORS AND SWEEPS.
3. PROPOSED UNDERGROUND (2) 4" SCH 80 PVC EACH WITH 3-CELL INNERDUCT FOR FUTURE COMMUNICATION CABLE, ITEM L-100. SEE DETAIL A3/ES-501.
4. PROPOSED COMMUNICATION HAND HOLE, ITEM L-100. SEE A2/ES-501.
5. PROPOSED STREET LIGHT AND POLE, ITEM L-100. SEE B1/ES-501.
6. PROPOSED 3#6 AWG IN 1" SCH 80 PVC CONDUIT, ITEM L-100. SEE DETAIL A3/ES-501.
7. PROPOSED ELECTRICAL HAND HOLE. ITEM L-100. SEE C2/ES-501.
9. PROPOSED SECONDARY ELECTRICAL POWER CABLES IN 3" CONDUIT AND (1) 3" SPARE CONDUIT TO ELECTRICAL RACK. ITEM L-100. SEE A3/ES-501.
10. EXISTING UTILITY TRANSFORMER. TAP SECONDARY SIDE WITH NEW FEEDERS. COORDINATE WITH GUSC. ITEM L-102.
3. CAP 1" CONDUIT FOR FUTURE. ITEM L-100. MARK SURFACE WITH FLUSH CONCRETE MARKER.



A2	KEY MAP
-----------	----------------

SCALE: NOT TO SCALE

  -----FO----- -----T-----T----- -----E-----E-----  LP  EHH -----E-----E----- -----FO-----  EHH  CHH  	PROPOSED ASPHALT PAVEMENT EXISTING FIBER OPTIC LINE EXISTING COMMUNICATIONS LINE EXISTING UNDERGROUND ELECTRIC LINE EXISTING LIGHT POLE EXISTING ELECTRICAL HAND HOLE PROPOSED UNDERGROUND ELECTRICAL LINE PROPOSED FIBER OPTIC LINE PROPOSED ELECTRICAL HAND HOLE PROPOSED COMMUNICATION HAND HOLE PROPOSED ELECTRICAL RACK PROPOSED STREET LIGHT POLE AND LUMINAIRE	ABOVE FINISHED GRADE BELOW FINISHED GRADE DISTRIBUTION PANEL ROUND JUNCTION BOX 10 AMP 150 VOLT 250 VOLT AMP	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION PULL BOX REMARKS RIGID GALVANIZED STEEL CONDUIT WATER PROOF
--	--	---	---

A3 ELECTRICAL SYMBOLS & ABBREVIATIONS

SCALE: NOT TO SCALE

1. ALL ELECTRICAL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND NATIONAL ELECTRICAL CODES.
2. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
3. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS.
5. ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
7. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL AS DETERMINED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
9. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
10. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
11. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12AWG UNLESS OTHERWISE SHOWN.
12. ALL BRANCH CIRCUITS SHALL CONSIST OF 2 CONDUCTORS PLUS GROUND, UNLESS OTHERWISE SHOWN.

Δ4 SHEET NOTES

SCALE: NOT TO SCALE



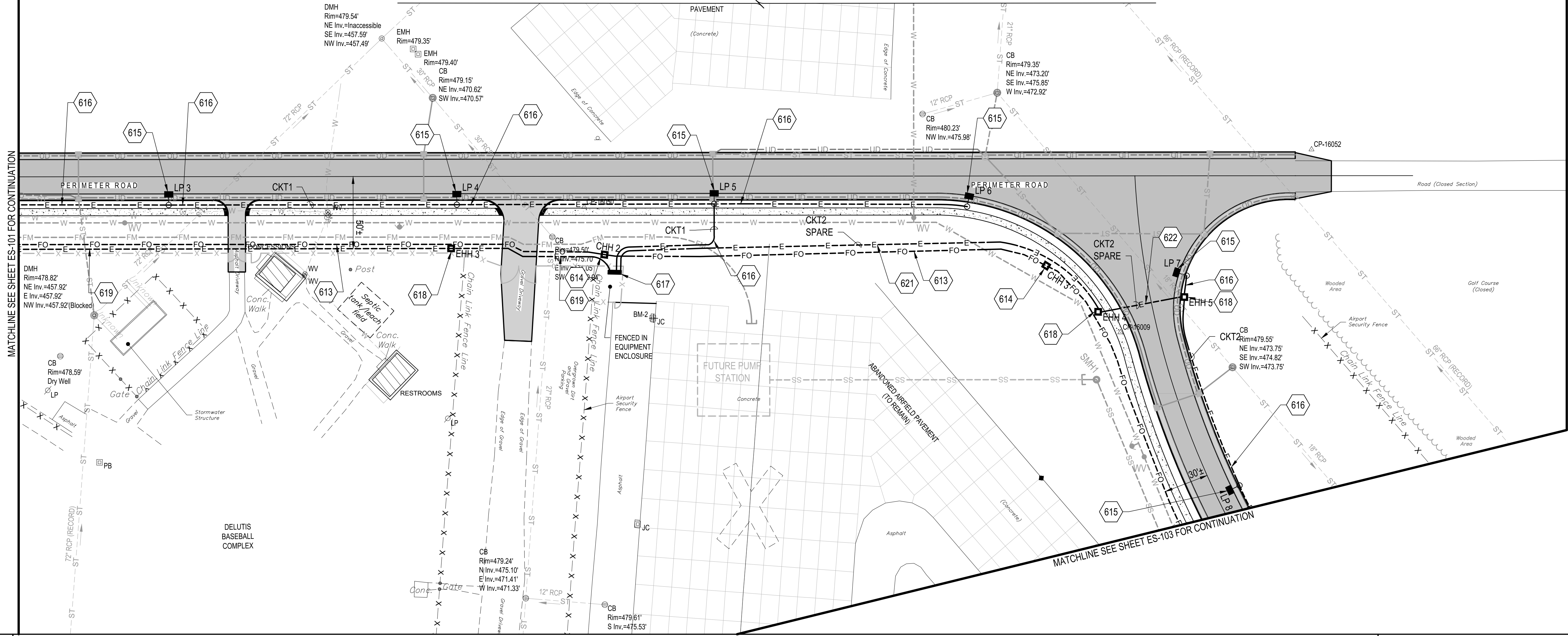
**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	146.205.005	
DATE:	MAY 2, 2025	
DRAWN BY:	F. K. NEILEY, P.E.	
DESIGNED BY:	F. K. NEILEY, P.E.	
CHECKED BY:	S. SHOVA	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

ELECTRICAL SITE PLAN

ES-102

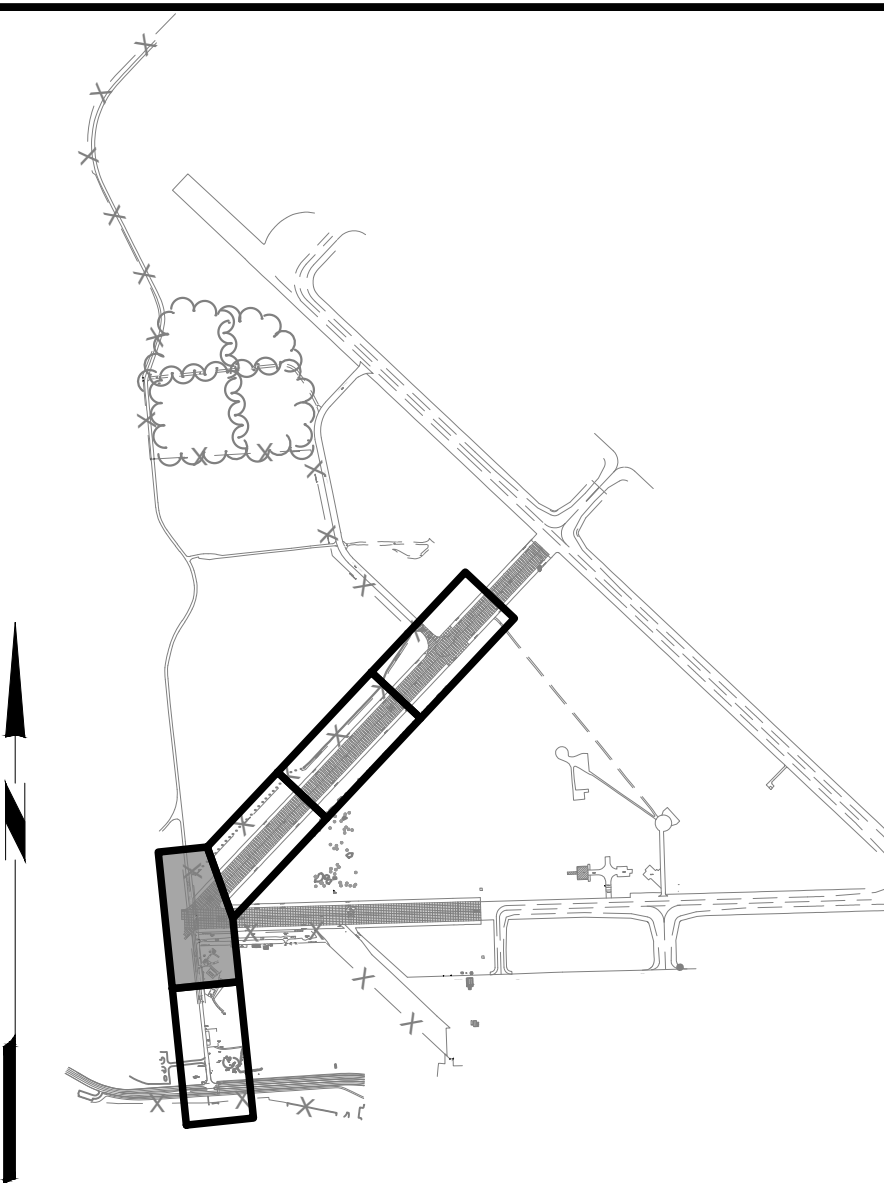
SHEET NO. 40 OF 58



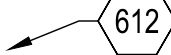
B1 PLAN
SCALE: 1" = 40'

40' 0' 40' 80' FT

613. PROPOSED UNDERGROUND (2) 4" SCH 80 PVC EACH WITH 3-CELL INNERDUCT FOR FUTURE COMMUNICATION CABLE, ITEM L-100. SEE DETAIL A3/ES-501.
614. PROPOSED COMMUNICATION HAND HOLE, ITEM L-100. SEE A2/ES-501.
615. PROPOSED STREET LIGHT AND POLE, ITEM L-100. SEE B1/ES-501.
616. PROPOSED 3#6 AWG IN 1" SCH 80 PVC CONDUIT, ITEM L-100. SEE DETAIL A3/ES-501.
617. PROPOSED ELECTRICAL EQUIPMENT RACK, ITEM L-100. SEE A2/ES-502.
618. PROPOSED ELECTRICAL HAND HOLE. ITEM L-100. SEE C2/ES-501.
619. PROPOSED SECONDARY ELECTRICAL POWER CABLES IN 3" CONDUIT AND (1) 3" SPARE CONDUIT TO ELECTRICAL RACK, ITEM L-100. SEE A3/ES-501.
621. PROPOSED 3#6 AWG IN 1" SCH 80 PVC CONDUIT AND (1) 2" SPARE CONDUIT, ITEM L-100. SEE DETAIL A3/ES-501.
622. PROPOSED 3#6 AWG IN 1" SCH 80 PVC CONDUIT AND (1) 2" SPARE CONDUIT; CONDUITS ARE CONCRETE-ENCASED, ITEM L-100. SEE DETAIL B2/ES-501.



A2 **KEY MAP**
SCALE: NOT TO SCALE

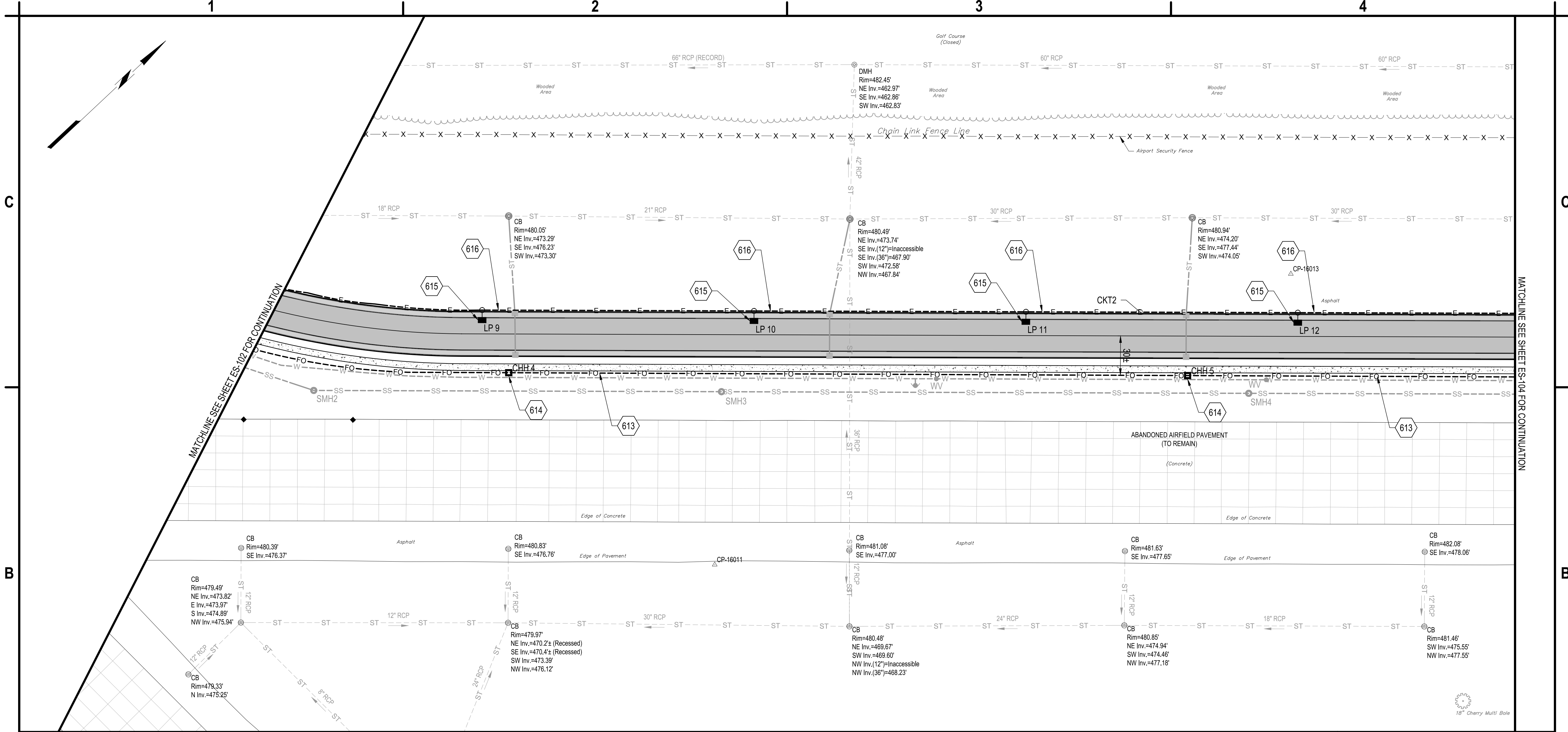
KEYED NOTE REFERENCE	
	
	PROPOSED ASPHALT PAVEMENT
-----FO-----	EXISTING FIBER OPTIC LINE
---T-----T---	EXISTING COMMUNICATIONS LINE
---E-----E---	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING LIGHT POLE
	EXISTING ELECTRICAL HAND HOLE
---E-----E---	PROPOSED UNDERGROUND ELECTRICAL LINE
-----FO-----	PROPOSED FIBER OPTIC LINE
	PROPOSED ELECTRICAL HAND HOLE
	PROPOSED COMMUNICATION HAND HOLE
	PROPOSED ELECTRICAL RACK
	PROPOSED STREET LIGHT POLE AND LUMINAIRE
ABOVE FINISHED GRADE BELOW FINISHED GRADE DISTRIBUTION PANEL GROUND SECTION BOX	NEMA PB REM RGS WP
	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION PULL BOX REMARKS RIGID GALVANIZED STEEL CONDUIT WATER PROOF

A3 ELECTRICAL SYMBOLS & ABBREVIATIONS

4. ALL ELECTRICAL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND NATIONAL ELECTRICAL CODES.
5. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
6. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS.
8. ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
10. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL AS DETERMINED BY THE ENGINEER.
11. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
12. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
14. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12AWG UNLESS OTHERWISE SHOWN.
15. ALL BRANCH CIRCUITS SHALL CONSIST OF 2 CONDUCTORS PLUS GROUND, UNLESS OTHERWISE SHOWN.

A4 **SHEET NOTES**
SCALE: NOT TO SCALE

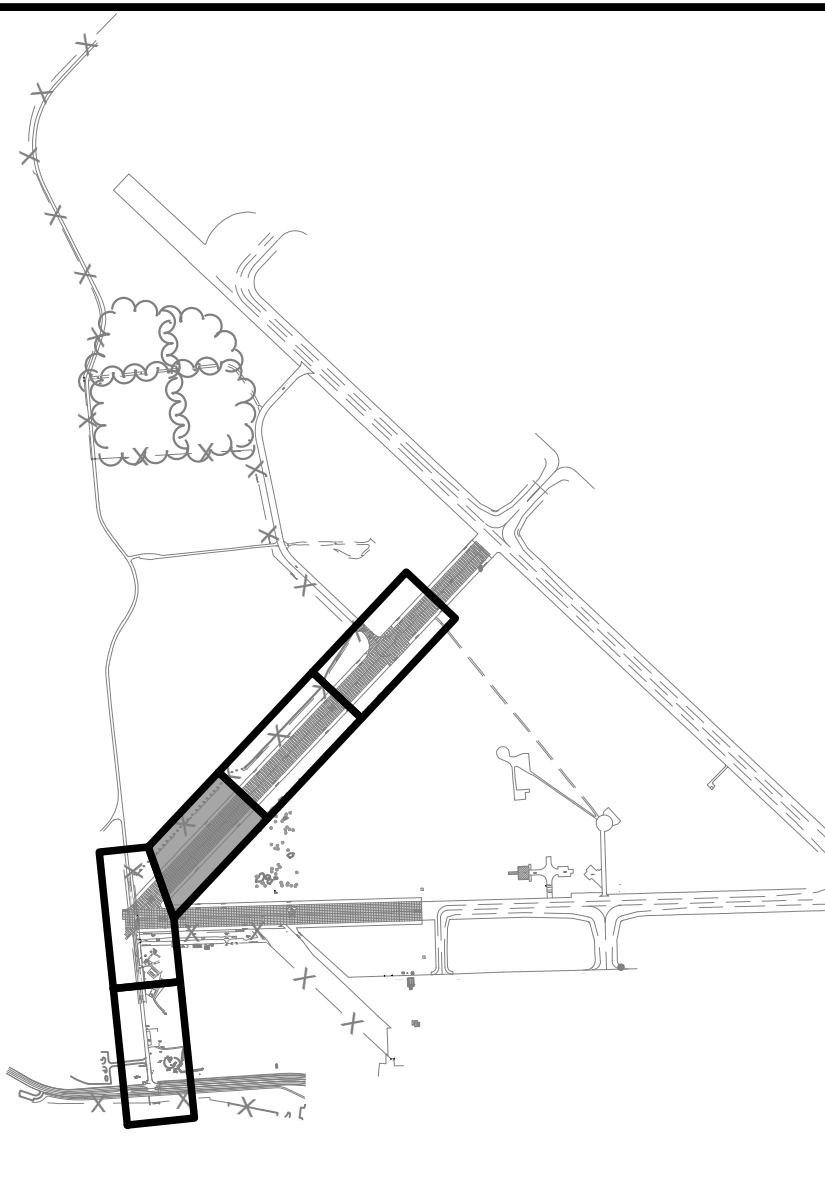
May 02, 2024 - 2:05pm
F:\Project\146-ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\Drawn Files\146205005_ES-Series.dwg



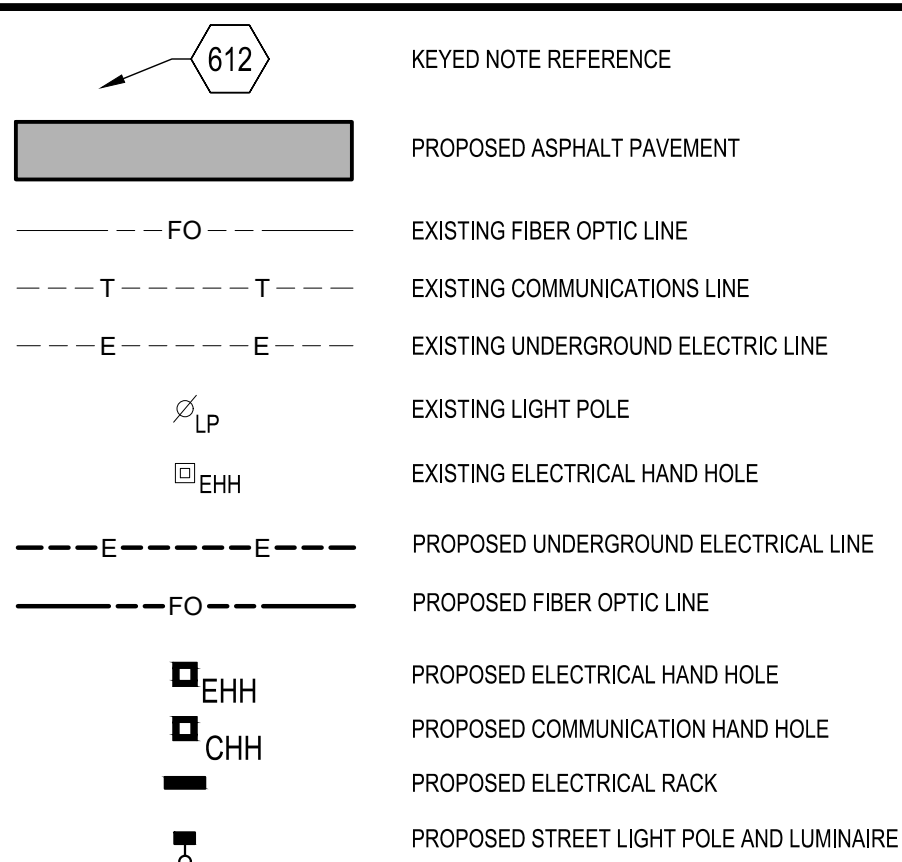
B1 PLAN
SCALE: 1" = 40'



613. PROPOSED UNDERGROUND (2) 4" SCH 80 PVC EACH WITH 3-CELL INNERDUCT FOR FUTURE COMMUNICATION CABLE, ITEM L-100. SEE DETAIL A3/ES-501.
614. PROPOSED COMMUNICATION HAND HOLE, ITEM L-100. SEE DETAIL A2/ES-501.
615. PROPOSED STREET LIGHT AND POLE, ITEM L-100. SEE B1/ES-501.
616. PROPOSED 3#6 AWG IN 1" SCH 80 PVC CONDUIT, ITEM L-100. SEE DETAIL A3/ES-501.



A2 KEY MAP
SCALE: NOT TO SCALE



AFG	ABOVE FINISHED GRADE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BFG	BELOW FINISHED GRADE	PB	PULL BOX
DP	DISTRIBUTION PANEL	REM	REMARKS
GND	GROUND	RGS	RIGID GALVANIZED STEEL CONDUIT
JB	JUNCTION BOX	WP	WATER PROOF
KA	KILO AMP		
KV	KILO VOLT		
KVA	KILO VOLT AMP		

A3 ELECTRICAL SYMBOLS & ABBREVIATIONS
SCALE: NOT TO SCALE

- ALL ELECTRICAL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND NATIONAL ELECTRICAL CODES.
- ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
- ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS.
- ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
- ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
- ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12AWG UNLESS OTHERWISE SHOWN.
- ALL BRANCH CIRCUITS SHALL CONSIST OF 2 CONDUCTORS PLUS GROUND, UNLESS OTHERWISE SHOWN.

A4 SHEET NOTES
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: F. K. NEILEY, P.E.		
DESIGNED BY: F. K. NEILEY, P.E.		
CHECKED BY: S. SHOVA		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

ELECTRICAL SITE PLAN

ES-103

SHEET NO. 41 OF 58

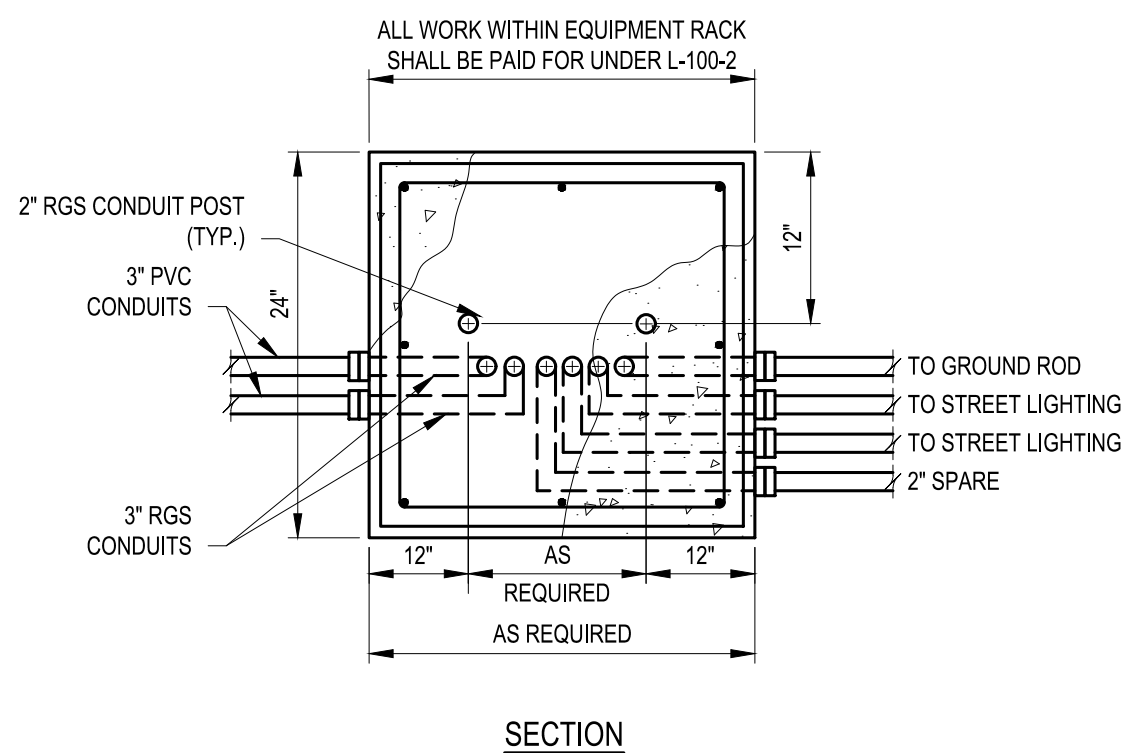
Copyright ©

May 02, 2022 - 2:05pm
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\DD\Sheet Files\146205005_ES-Details.dwg

ELECTRICAL HAND HOLE POINT TABLE			
ELECTRICAL HAND HOLE NO.	NORTHING	EASTING	
EHH 1	1,178,040.49	1,128,335.86	
EHH 2	1,178,290.00	1,128,309.56	
EHH 3	1,178,674.31	1,128,268.99	
EHH 4	1,179,124.31	1,128,266.58	
EHH 5	1,179,182.61	1,128,250.25	

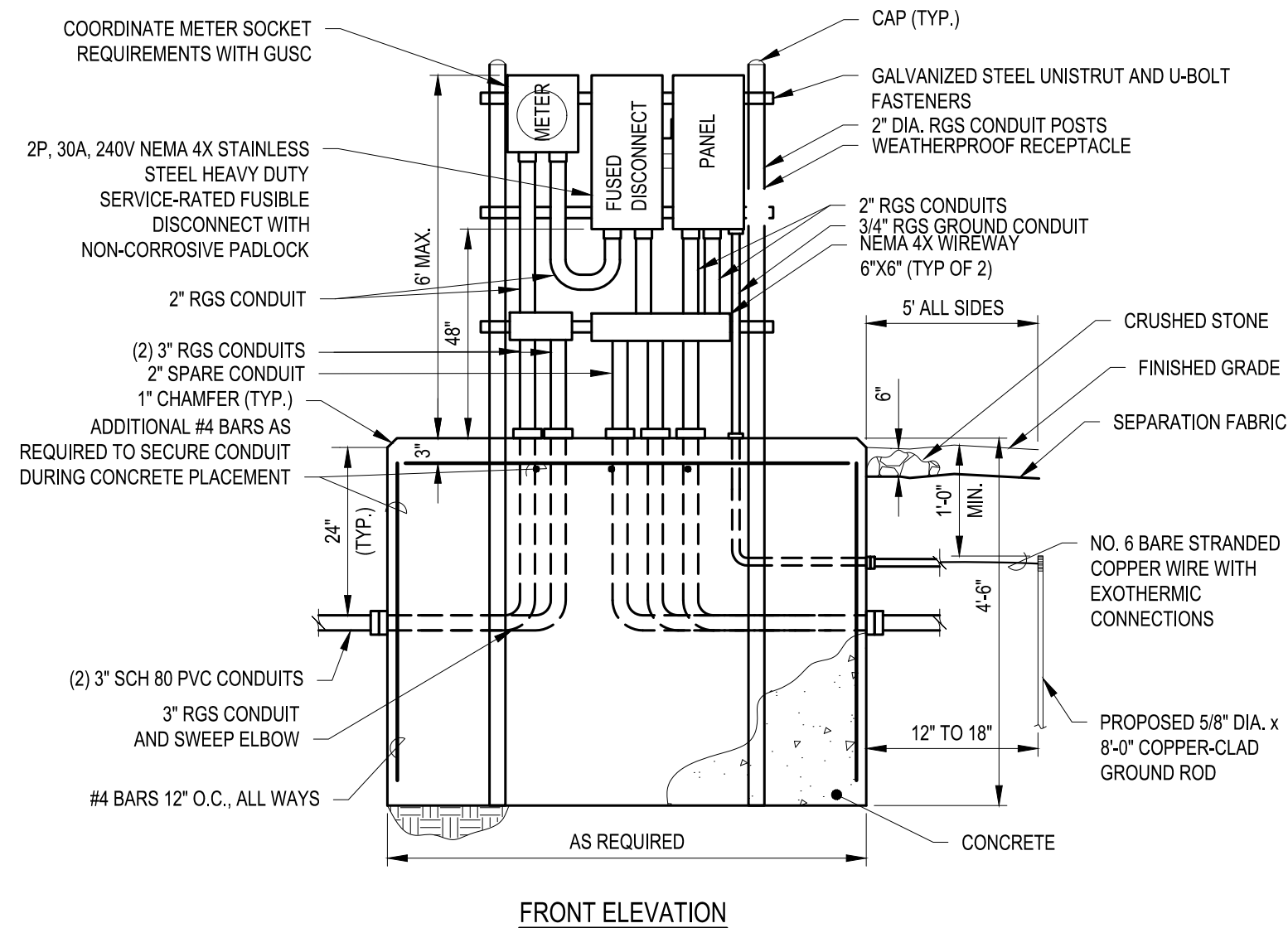
COMMUNICATION HAND HOLE POINT TABLE		
COMMUNICATION HAND HOLE NO.	NORTHING	EASTING
CHH 1	1,178,281.89	1,128,306.99
CHH 2	1,178,777.21	1,128,255.91
CHH 3	1,179,085.26	1,128,238.48
CHH 4	1,179,320.85	1,128,548.48
CHH 5	1,179,683.56	1,128,891.93
CHH 6	1,180,046.41	1,129,235.51
CHH 7	1,180,409.87	1,129,579.20
CHH 8	1,180,773.30	1,129,922.93

STREET LIGHT POLE POINT TABLE		
STREET LIGHT POLE NO.	NORTHING	EASTING
LP 1	1,178,078.83	1,128,300.18
LP 2	1,178,277.84	1,128,279.56
LP 3	1,178,476.72	1,128,259.26
LP 4	1,178,675.09	1,128,238.50
LP 5	1,178,852.21	1,128,219.65
LP 6	1,179,026.57	1,128,203.47
LP 7	1,179,182.72	1,128,235.39
LP 8	1,179,234.01	1,128,376.06
LP 9	1,179,338.13	1,128,501.51
LP 10	1,179,483.53	1,128,638.90
LP 11	1,179,628.97	1,128,776.30
LP 12	1,179,774.37	1,128,913.70
LP 13	1,179,919.40	1,129,050.70
LP 14	1,180,064.41	1,129,187.71
LP 15	1,180,209.44	1,129,324.73
LP 16	1,180,354.46	1,129,461.75
LP 17	1,180,499.48	1,129,598.76
LP 18	1,180,644.50	1,129,735.80
LP 19	1,180,789.54	1,129,872.81



NOTES:

- ALL POSTS SHALL BE SET VERTICALLY PLUMB, WITHIN A 1" TOLERANCE.
- FILE ALL CUT ENDS OF UNISTRUT SMOOTH AND COLD GALVANIZE PAINT IMMEDIATELY. PROVIDE SAFETY END CAPS ON UNISTRUT ENDS. ALL ELECTRICAL APPARATUSES SHALL BE SECURED WITH HOT DIPPED GALVANIZED OR STAINLESS STEEL HARDWARE. ZINC PLATED HARDWARE IS NOT ACCEPTABLE.
- USE U-BOLT FASTENER SYSTEM TO CONNECT UNISTRUT TO SUPPORT PIPES. DRILLING INTO SUPPORT PIPES FOR CONNECTIONS IS NOT PERMITTED.
- BOTTOM ENTRY ONLY ALLOWED FOR EQUIPMENT BOXES. TOP ENTRY IS ACCEPTABLE FOR WIREWAY.
- NO SPLICES ARE ALLOWED IN THE WIREWAY, ONLY AT LIGHT UNITS OR ELECTRICAL BOXES.



A1 ELECTRICAL STRUCTURE DATA TABLES

NOT TO SCALE

A2 ELECTRICAL EQUIPMENT RACK DETAIL

NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

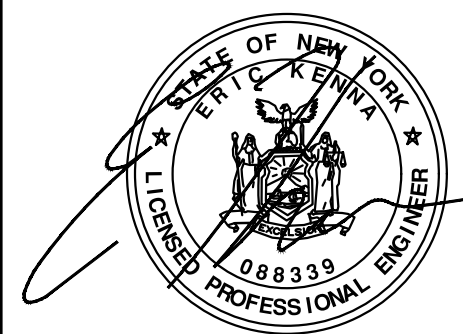
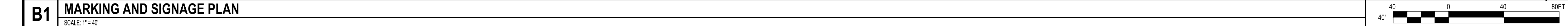
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: F. K. NEILEY, P.E.		
DESIGNED BY: F. K. NEILEY, P.E.		
CHECKED BY: S. SHOVA		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

**ELECTRICAL
DETAILS**

ES-502

SHEET NO. 45 OF 58

Copyright ©



TRIANGLE AREA CIVIL SITE DEVELOPMENT

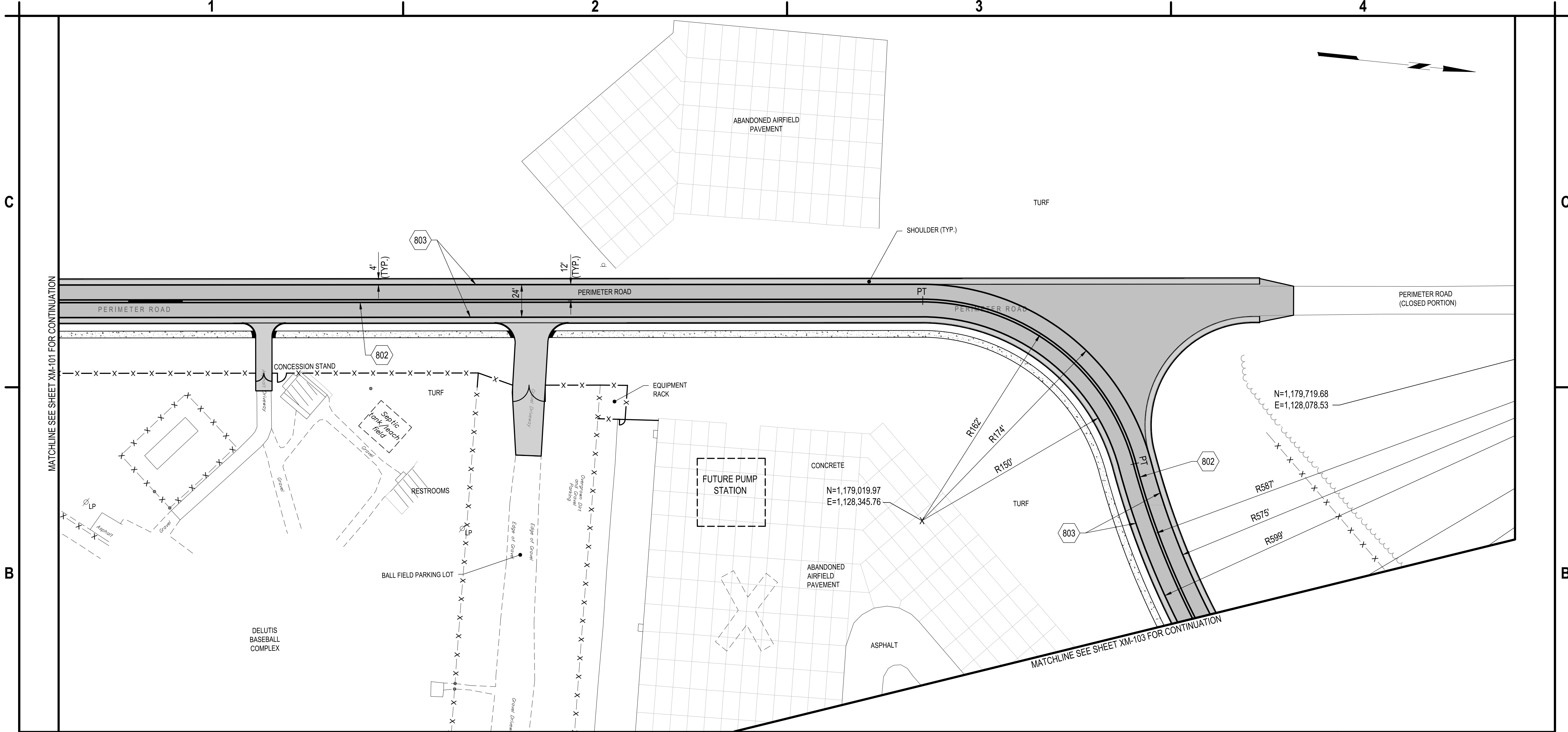
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	146.205.005	
DATE:	MAY 2, 2025	
DRAWN BY:	B. BUCKINGHAM	
DESIGNED BY:	C. BRUBACH	
CHECKED BY:	E. N. KENNA, P.E.	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

MARKING AND SIGNAGE PLAN

XM-101

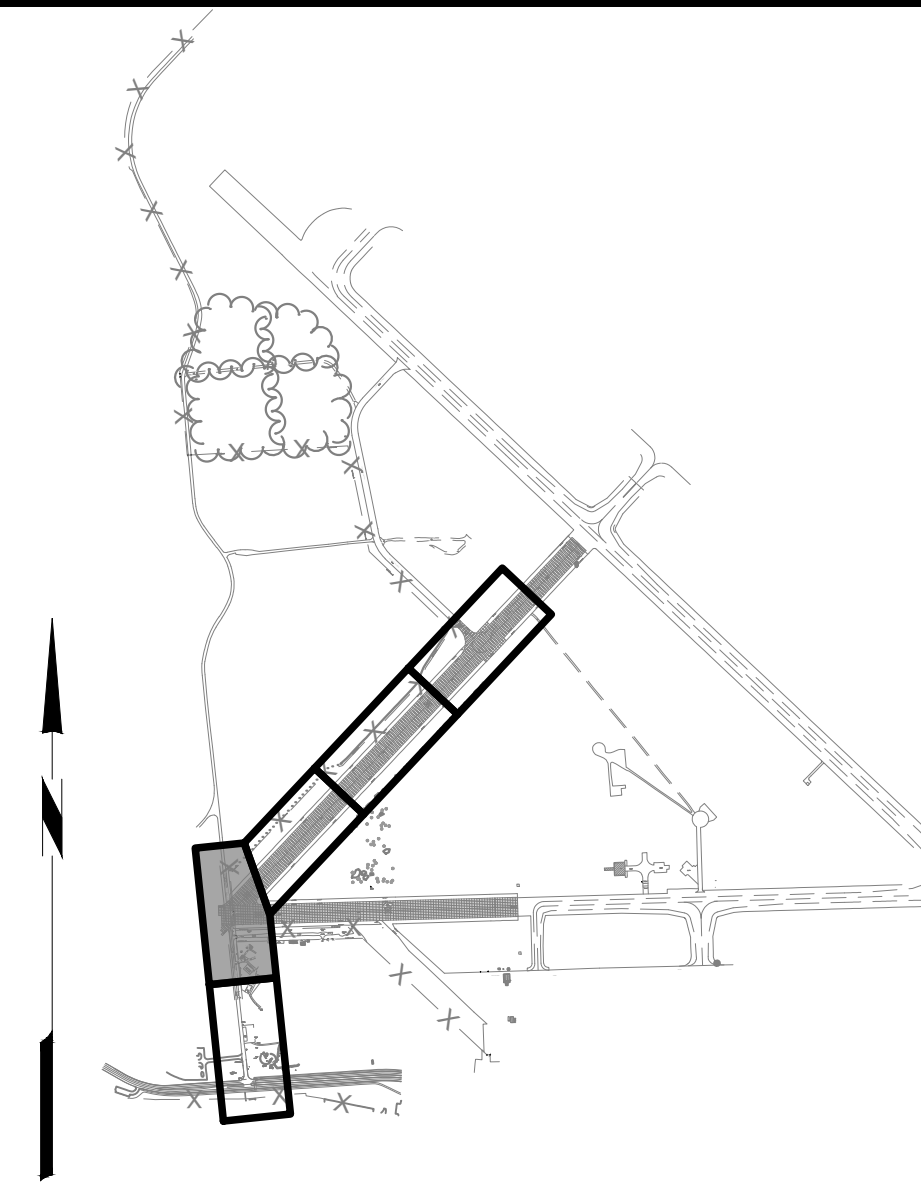
SHEET NO. 46 OF 58

May 05, 2025 - 10:28am
P:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\DD\Sheet Files\146205005_XM-Series.dwg



B1 MARKING AND SIGNAGE PLAN
SCALE: 1" = 40'

802. (2) 4" WIDE, YELLOW FULL BARRIER PAVEMENT MARKING, ITEM P-620.
803. 4" WIDE, WHITE EDGE MARKING, ITEM P-620.



A2 KEY MAP
SCALE: NOT TO SCALE

A1 KEYED NOTES
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

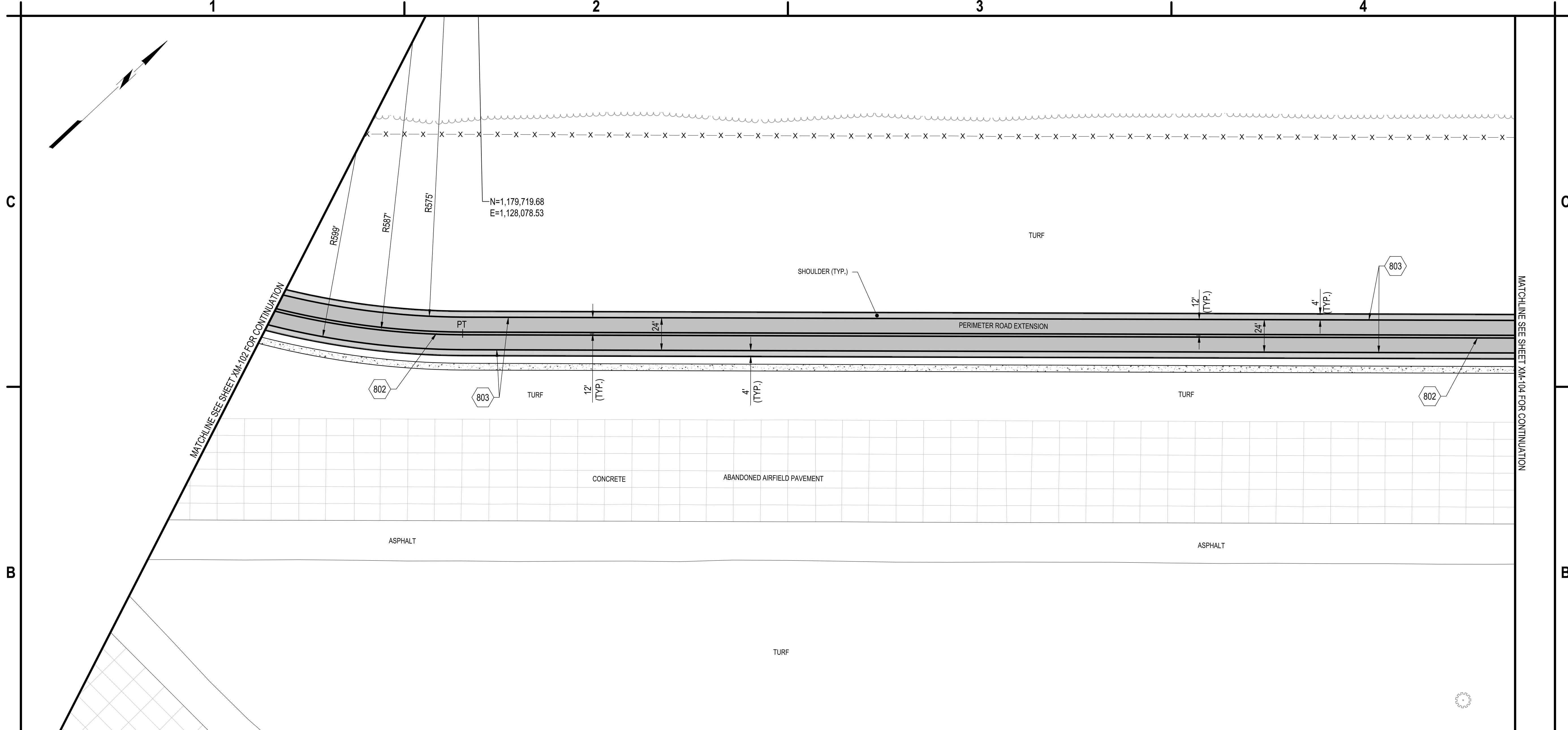
**MARKING AND
SIGNAGE PLAN**

XM-102

SHEET NO. 47 OF 58

Copyright ©

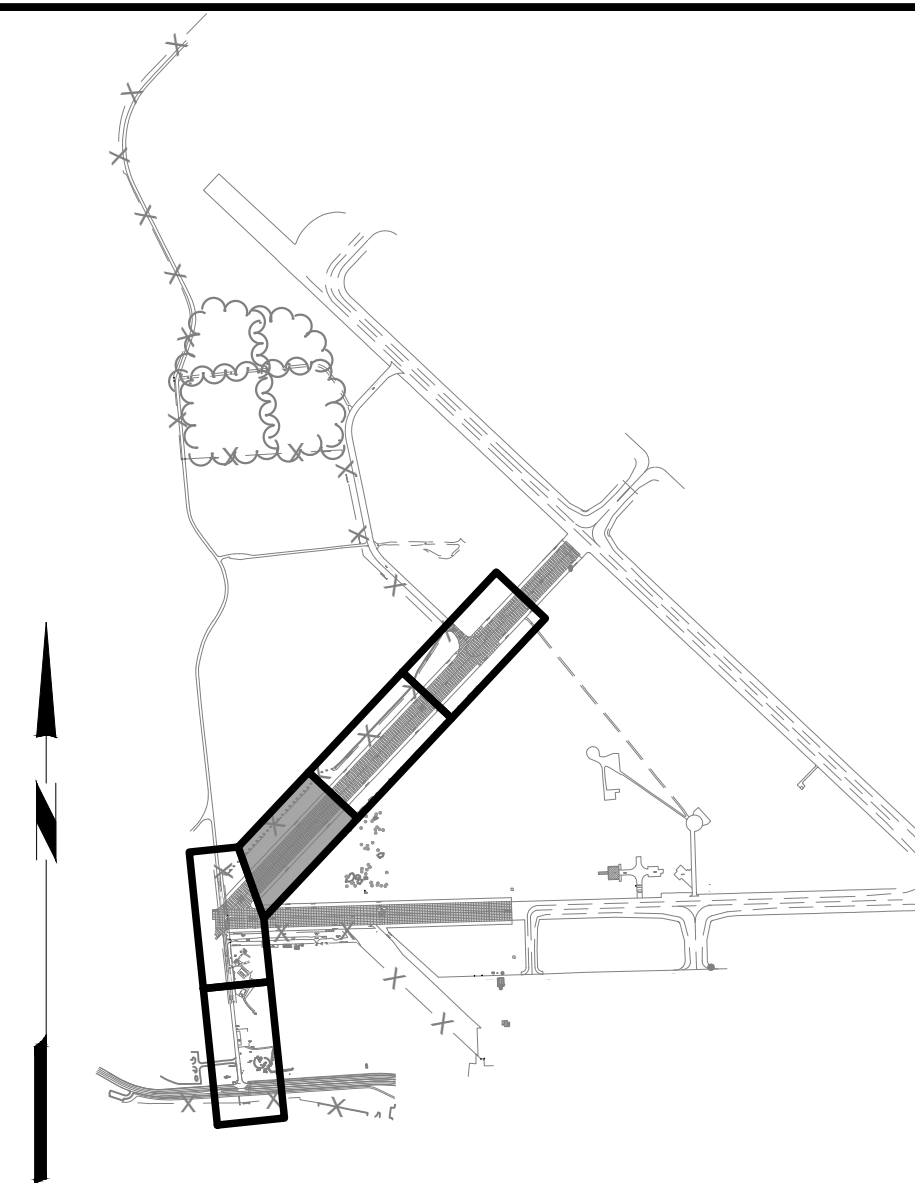
May 05, 2025 - 10:32am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\DD\Sheet Files\146205005_XM-Series.dwg



B1 MARKING AND SIGNAGE PLAN
SCALE: 1" = 40'

802. (2) 4" WIDE, YELLOW FULL BARRIER PAVEMENT MARKING, ITEM P-620.
803. 4" WIDE, WHITE EDGE MARKING, ITEM P-620.

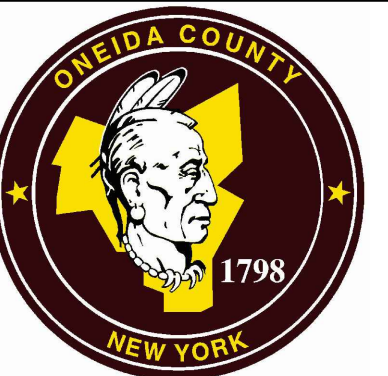
A1 KEYED NOTES
SCALE: NOT TO SCALE



A2 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA
CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

MARKING AND
SIGNAGE PLAN

XM-103

SHEET NO. 48 OF 58

Copyright ©



B1

802. (2) 4" WIDE, YELLOW FULL BARRIER PAVEMENT MARKING, ITEM P-620.

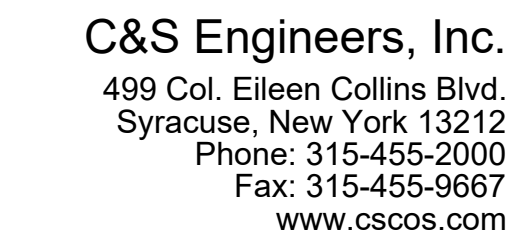
803. 4" WIDE, WHITE EDGE MARKING, ITEM P-620.

805. TRAFFIC SIGN ASSEMBLY, ITEM L-127. ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD REGULATIONS.



KEY MAP
SCALE: NOT TO SCALE

SCALE: NOT TO SCALE



TRIANGLE AREA CIVIL SITE DEVELOPMENT

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		

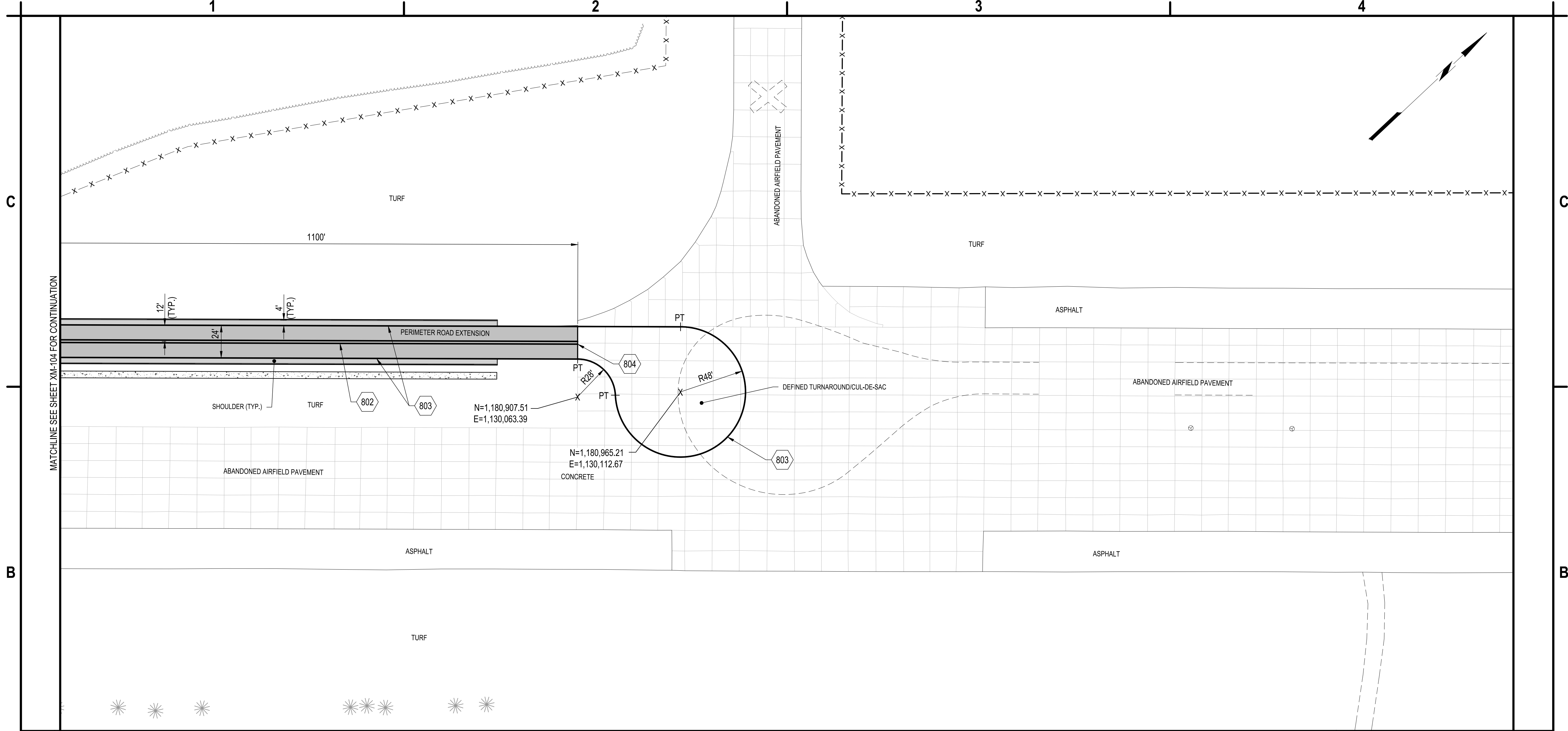
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

MARKING AND SIGNAGE PLAN

XM-104

SHEET NO. 49 OF 58

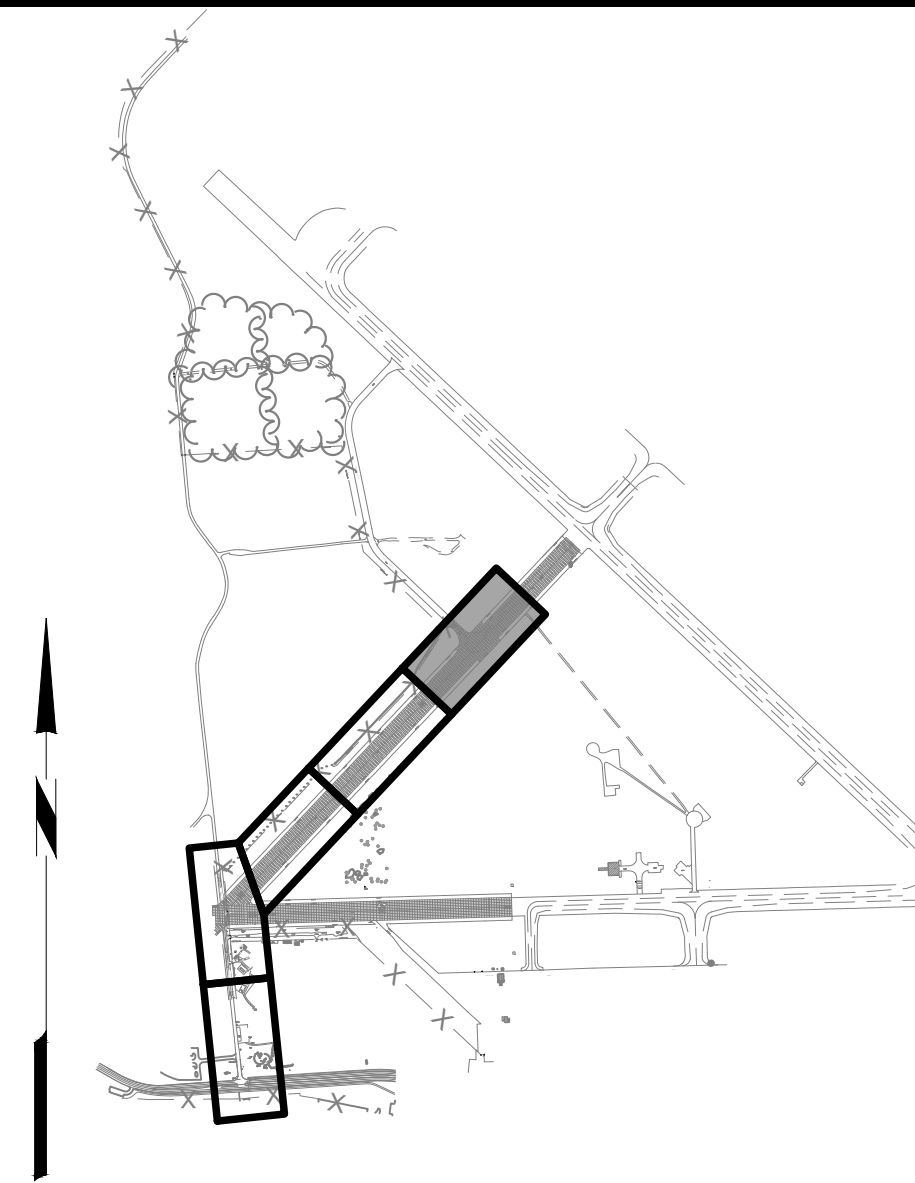
May 05, 2025 - 10:32am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities Design\CAD\DD\Sheet Files\146205005_XM-Series.dwg



B1 MARKING AND SIGNAGE PLAN
SCALE: 1" = 40'

802. (2) 4" WIDE, YELLOW FULL BARRIER PAVEMENT MARKING, ITEM P-620.
803. 4" WIDE, WHITE EDGE MARKING, ITEM P-620.
804. END NEW MARKINGS AT LIMIT OF WORK.

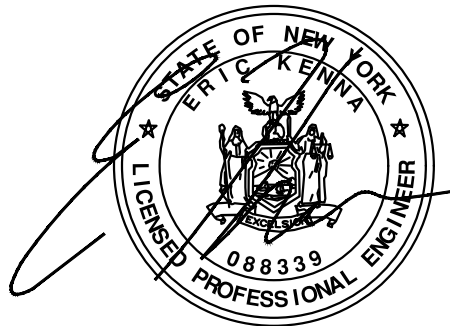
A1 KEYED NOTES
SCALE: NOT TO SCALE



A2 KEY MAP
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

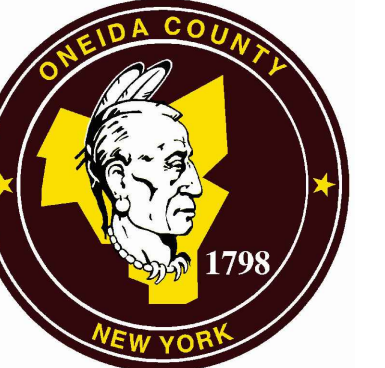
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

**MARKING AND
SIGNAGE PLAN**

XM-105

SHEET NO. 50 OF 58

Copyright ©



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

REVISIONS	
PROJECT NO:	146.205.005
DATE:	MAY 2, 2025
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	C. BRUBACH
CHECKED BY:	E. N. KENNA, P.E.

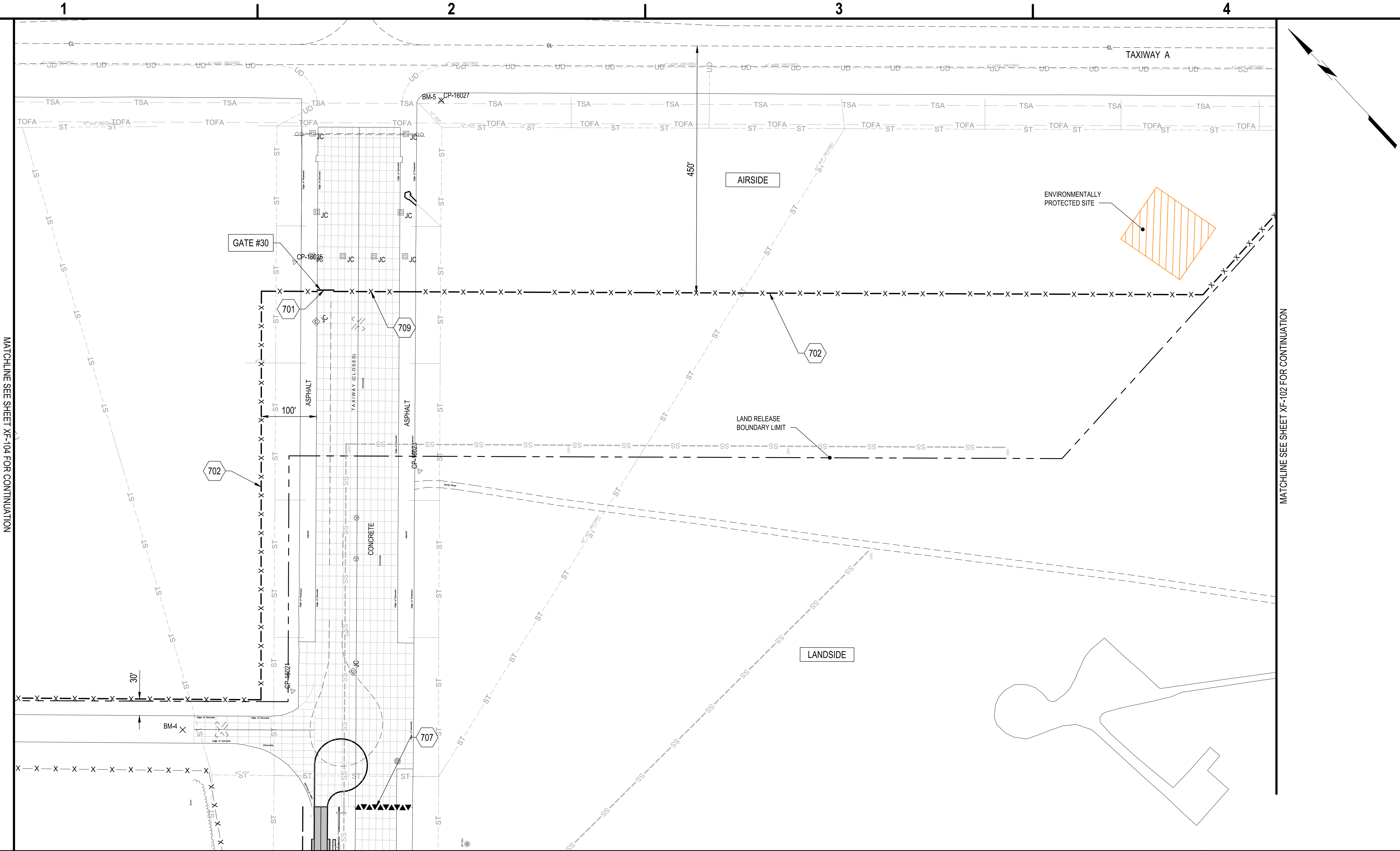
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

FENCE AND GATE PLAN

XF-103

SHEET NO. 53 OF 58

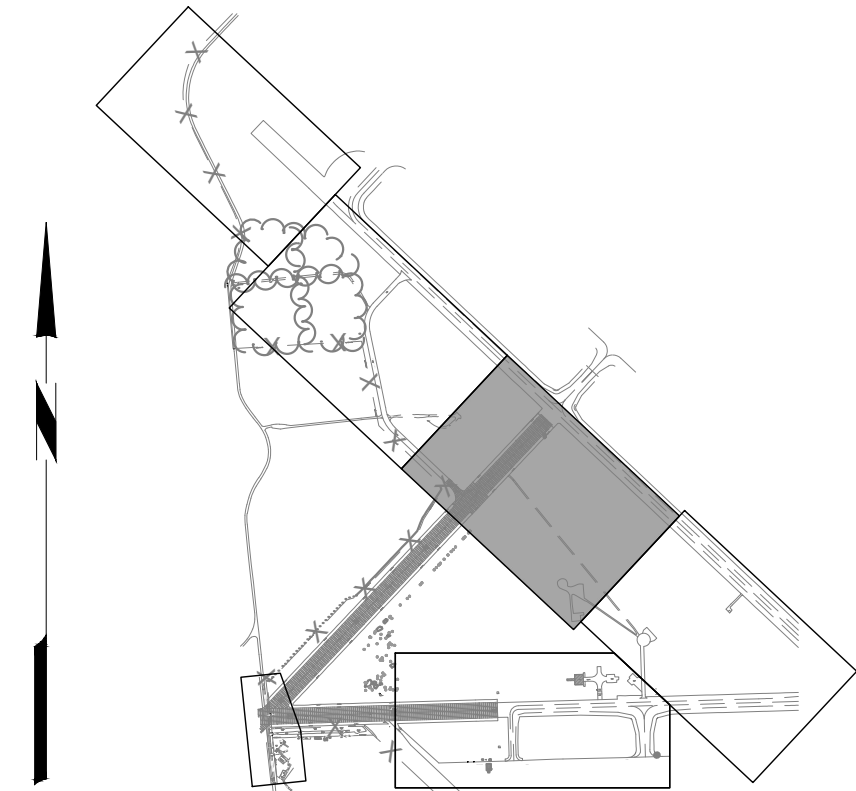
Copyright ©



B1	PLAN
	SCALE: 1" = 100'



701. 30" WIDE SINGLE SLIDE STRUCTURAL CANTILEVER GATE, ITEM F-162. SEE DETAIL B2/XF-502.
702. 8' HIGH CHAIN LINK FENCE WITH BARBED WIRE AND WILDLIFE BARRIER, ITEM F-162. SEE DETAIL B1/XF-501.
707. PERMANENT CONCRETE HIGHWAY JERSEY BARRIER, ITEM L-127.
709. CORE DRILL EXISTING PAVEMENT AS NECESSARY TO INSTALL FENCE POST AND CONCRETE FOUNDATION. CONCRETE FOUNDATION SHALL BE FINISHED FLUSH WITH THE PAVEMENT SURFACE. COST SHALL BE INCIDENTAL TO ITEM F-162.



A2	KEY MAP
	SCALE: NOT TO SCALE

A1	KEYED NOTES
	SCALE: NOT TO SCALE



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

REVISIONS	
PROJECT NO:	146.205.005
DATE:	MAY 2, 2025
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	C. BRUBACH
CHECKED BY:	E. N. KENNA, P.E.

NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

FENCE AND GATE PLAN

XF-104

SHEET NO. 54 OF 58



B1	PLAN
	SCALE: 1" = 10'

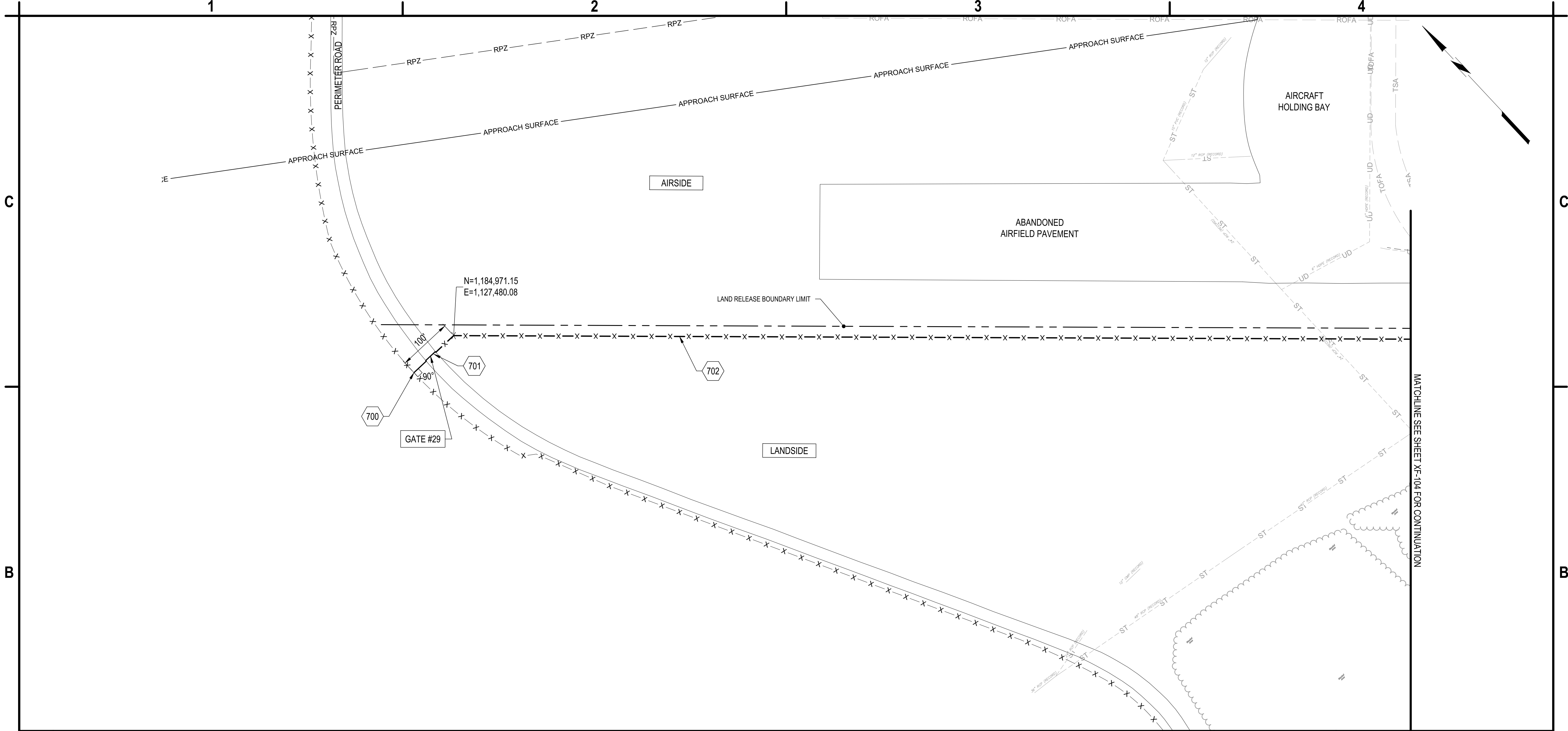
702. 8' HIGH CHAIN LINK FENCE WITH BARBED WIRE AND WILDLIFE BARRIER, ITEM F-162. SEE DETAIL B1/XF-501.

709. CORE DRILL EXISTING PAVEMENT AS NECESSARY TO INSTALL FENCE POST AND CONCRETE FOUNDATION. CONCRETE FOUNDATION SHALL BE FINISHED FLUSH WITH THE PAVEMENT SURFACE. COST SHALL BE INCIDENTAL TO ITEM F-162.



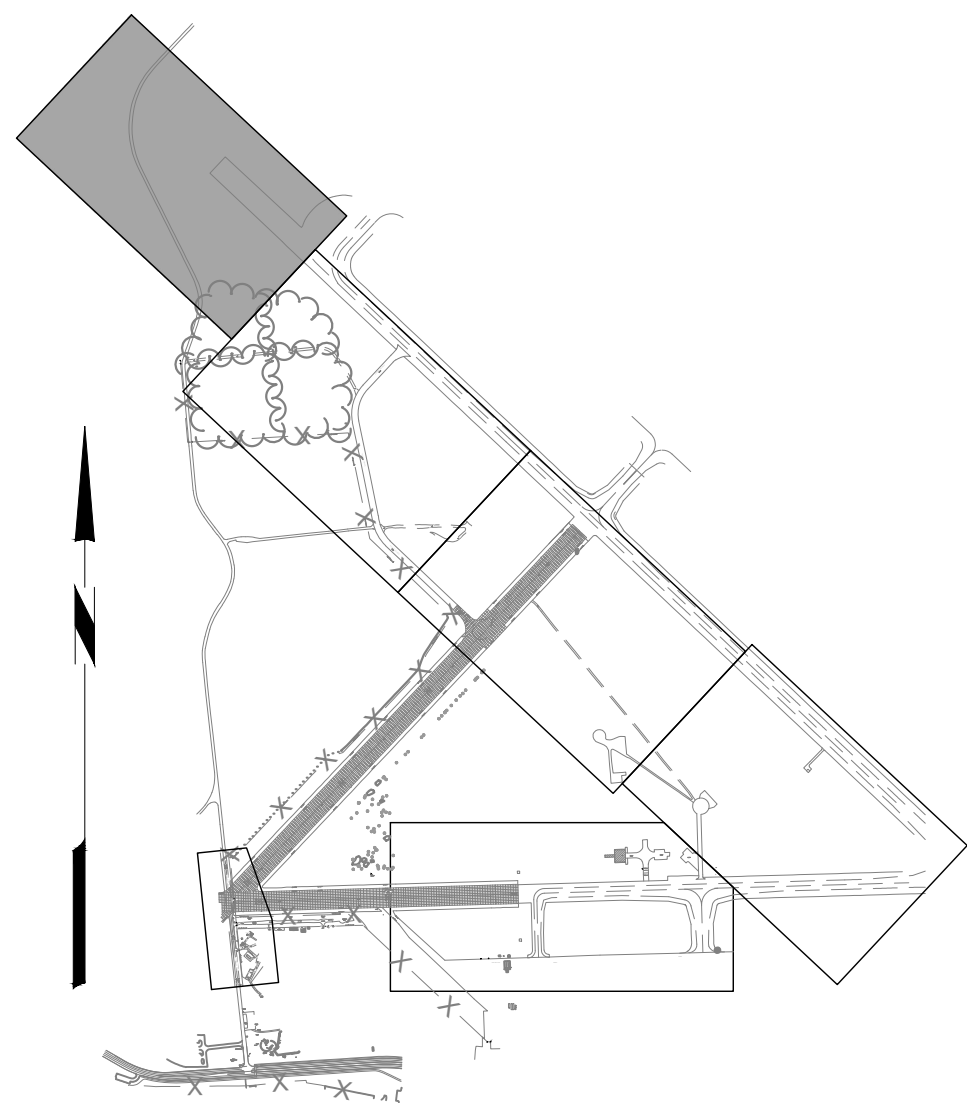
A1 KEYED NOTES

May 05, 2025 - 10:33am
F:\Project\146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CAD\DD\Sheet Files\146205005_XF-Series.dwg



B1 **PLAN**
SCALE: 1" = 100'

700. CONNECT PROPOSED FENCE TO EXISTING, NO GAPS (TYP.).
701. 30' WIDE SINGLE SLIDE STRUCTURAL CANTILEVER GATE, ITEM F-162. SEE DETAIL B2/XF-502.
702. 8' HIGH CHAIN LINK FENCE WITH BARBED WIRE AND WILDLIFE BARRIER, ITEM F-162. SEE DETAIL B1/XF-501.

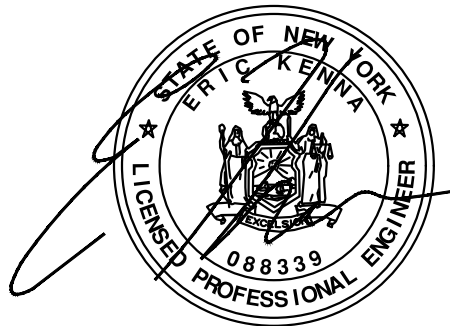


A1 **KEYED NOTES**
SCALE: NOT TO SCALE

A2 **KEY MAP**
SCALE: NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		

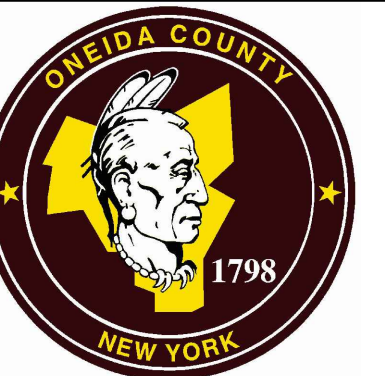
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

FENCE AND GATE PLAN

XF-105

SHEET NO. 55 OF 58

Copyright ©



**TRIANGLE AREA
CIVIL SITE DEVELOPMENT**

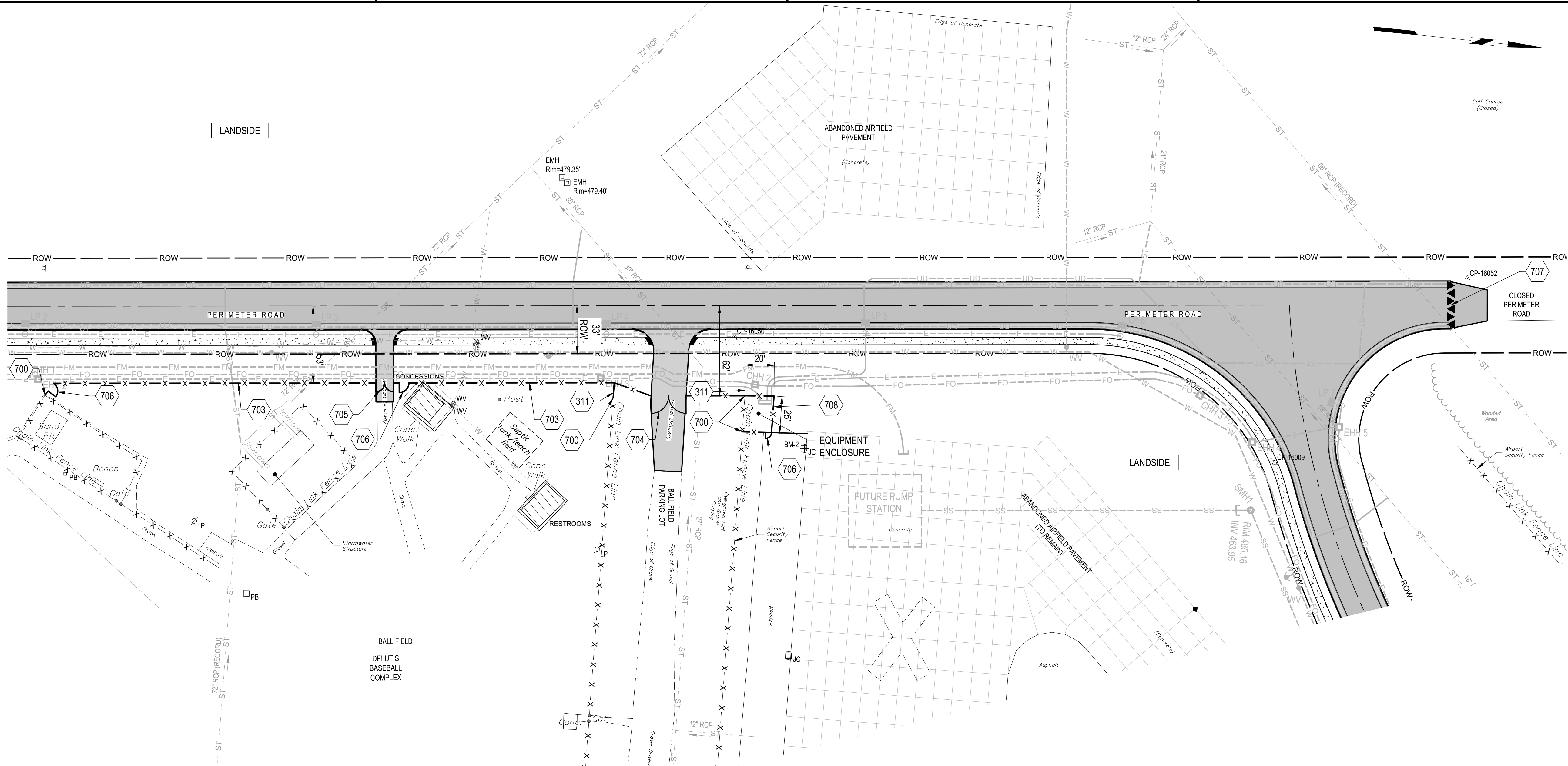
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: 146.205.005		
DATE: MAY 2, 2025		
DRAWN BY: B. BUCKINGHAM		
DESIGNED BY: C. BRUBACH		
CHECKED BY: E. N. KENNA, P.E.		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

FENCE AND GATE
PLAN

XF-106

SHEET NO. 56 OF 58

Copyright ©

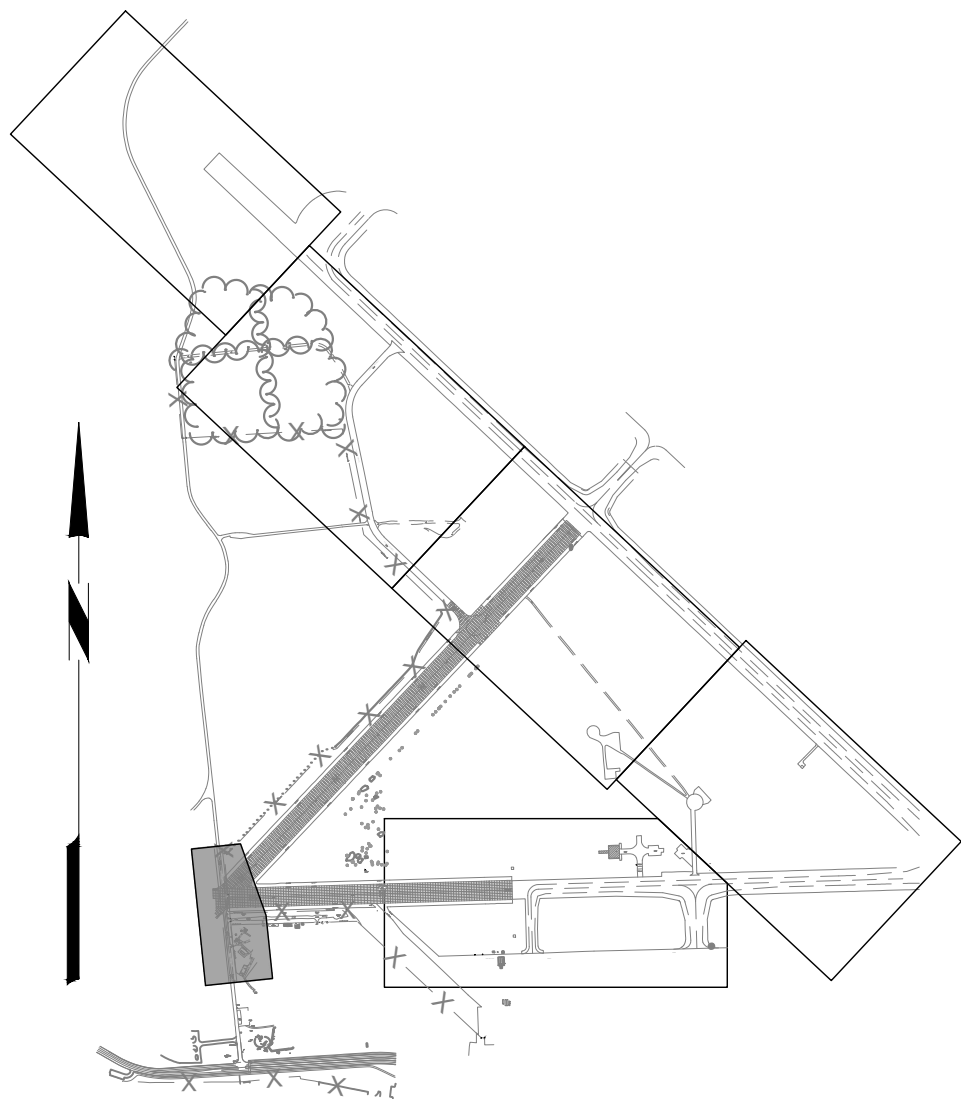


B1 PLAN

SCALE: 1" = 40'

40' 0 40 80FT.

311. EXISTING FENCE AND POSTS TO BE REMOVED TEMPORARILY FOR THE PLACEMENT OF UNDERGROUND UTILITIES. ONCE UTILITIES ARE INSTALLED, THE FENCE SHALL BE RE-INSTALLED USING NEW POSTS, TO ORIGINAL OR BETTER CONDITIONS.
700. CONNECT PROPOSED FENCE TO EXISTING, NO GAPS (TYP.).
703. 8' HIGH BLACK PVC COATED CHAIN LINK FENCE, ITEM F-162. SEE DETAIL B3/XF-501.
704. 24' WIDE DOUBLE SWING GATE, ITEM F-162. SEE DETAIL B2/XF-501.
705. 12' WIDE DOUBLE SWING GATE, ITEM F-162. SEE DETAIL B2/XF-501.
706. 4' WIDE SINGLE SWING PEDESTRIAN GATE, ITEM F-162. SEE DETAIL A1/XF-501.
707. PERMANENT CONCRETE HIGHWAY JERSEY BARRIER, ITEM L-127.
708. 8' HIGH BLACK PVC COATED CHAIN LINK FENCE WITH PRIVACY SLATS, ITEM F-162. SEE DETAIL B3/XF-501.



A2	KEY MAP
	SCALE: NOT TO SCALE

- A. REMOVE ALL EXISTING FENCE SIGNAGE, STORE AND REINSTALL ON REPLACEMENT FENCE. COST SHALL BE INCIDENTAL TO ITEM F-162.
- B. REFER TO CD-100 PLANS FOR FENCE DEMOLITION.
- C. FENCE AND GATES ON THIS PLAN SHALL BE REMOVED TO FACILITATE UTILITY INSTALLATION AND REINSTALLED WITH NEW MATERIALS UPON COMPLETION OF PROJECT RELATED WORK.
- D. COORDINATE EXACT LAYOUT OF BALL FIELD FENCE WITH OWNER AND FINAL UTILITY PLACEMENT. OBTAIN APPROVAL PRIOR TO INSTALLATION.

A3	SHEET NOTES
	SCALE: NOT TO SCALE



B1	CHAIN-LINK FENCE DETAIL (BARBED WIRE AND WILD LIFE BARRIER)
	NOT TO SCALE



B2	WILDLIFE BARRIER DETAIL (DIG DEFENCE DDAC MODEL)
	NOT TO SCALE



B3	CHAIN-LINK FENCE DETAIL (PVC COATED)
	NOT TO SCALE

- NOTES:**
1. PADLOCKS FOR MANUAL GATES TO BE FURNISHED BY THE AIRPORT AUTHORITY.
 2. THE CONTRACTOR SHALL RESTORE EXISTING GRADE (PAVEMENT AND TURF) TO ORIGINAL CONDITION AFTER INSTALLING FENCE AND GATES. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
 3. THE MAXIMUM GAP, IN ANY DIRECTION, FOR BOTH GATES AND FENCE SHALL BE 2-INCHES.
 4. SUPPORT POSTS FOR GATES SHALL BE OF THE SIZES AND DEPTHS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER.
 5. ALL ITEMS THAT ARE NOT PVC COATED ON PVC FABRIC FENCE SYSTEMS SHALL BE POWDER COATED BLACK TO MATCH THE FABRIC.

B4	FENCE AND GATE NOTES
	SCALE: NOT TO SCALE



A1	SINGLE SWING FRAMED PEDESTRIAN GATE DETAIL (PVC COATED)
	SCALE: NOT TO SCALE

A2	DOUBLE SWING GATE DETAIL (PVC COATED)
	SCALE: NOT TO SCALE



- NOTES:**
1. GATE SIGNS SHALL BE INSTALLED ON BOTH SIDES OF THE GATE WITH 8" ALUMINUM OR RUSTPROOF STEEL FENCE MOUNTING BRACKETS AND STAINLESS STEEL OR GALVANIZED NUTS AND BOLTS. ALL SIGNS SHALL CONFORM IN SIZE, APPEARANCE AND REFLECTORIZATION TO THE REQUIREMENTS OF THE NEW YORK STATE DOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 2. NO MEASUREMENT FOR PAYMENT OF GATE SIGNS SHALL BE MADE. THE COST OF PROVIDING THE SIGNS AND INSTALLING THEM SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE GATES.
 3. SIGN LOCATIONS ON GATE TO BE COORDINATED WITH OWNER.
 4. CONTRACTOR SHALL VERIFY SIZE OF SIGN AND LETTERING WITH AIRPORT OPERATIONS AND THE RPR PRIOR TO ORDERING.

A3	SECURITY GATE NUMBER SIGN DETAIL
	NOT TO SCALE

- NOTES:**
1. SECURITY SIGNS SHALL BE INSTALLED ON THE NON-SECURE SIDE OF THE SECURITY FENCE WITH 24" ALUMINUM OR RUSTPROOF STEEL FENCE MOUNTING BRACKETS AND GALVANIZED NUTS AND BOLTS.
 2. TOP OF SIGN SHALL BE 2' FROM TOP OF PROPOSED SECURITY FENCE.
 3. SIGNS SHALL BE INSTALLED AT 500' MAXIMUM INTERVALS, WITH ONE SIGN WITHIN 20 FEET ON EACH SIDE OF A FENCE CORNER OR ANGLE OF DEFLECTION GREATER THAN 30°.
 4. SIGNS SHALL CONFORM IN SIZE, APPEARANCE AND REFLECTORIZATION TO THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 5. SIGNS SHALL BE INCLUDED IN THE COST OF THE FENCE, ITEM F-162.

A4	SECURITY SIGN DETAIL
	NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



TRIANGLE AREA CIVIL SITE DEVELOPMENT

**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	146.205.005	
DATE:	MAY 2, 2025	
DRAWN BY:	B. BUCKINGHAM	
DESIGNED BY:	C. BRUBACH	
CHECKED BY:	E. N. KENNA, P.E.	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

FENCE AND GATE DETAILS

XF-501

SHEET NO. 57 OF 58

1. THE CONTRACTOR SHALL RESTORE EXISTING GRADE (PAVEMENT AND TURF) TO ORIGINAL CONDITION AFTER INSTALLING FENCE AND GATES. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
2. SUPPORT POSTS FOR GATES SHALL BE OF THE SIZES AND DEPTHS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER.
3. ALL GATES SHALL BE INSTALLED ON THE ENCLOSED SIDE OF THE FENCE (AIRSIDE) UNLESS OTHERWISE NOTED.
4. THE MAXIMUM GAP, IN ANY DIRECTION, FOR BOTH GATES AND FENCE SHALL BE 2-INCHES.
5. STRUCTURAL CANTILEVER GATES ARE REQUIRED WITH DUAL POSTS AND HANGER ASSEMBLIES REGARDLESS OF THE GATE WIDTH.

SCALE: NOT TO SCALE



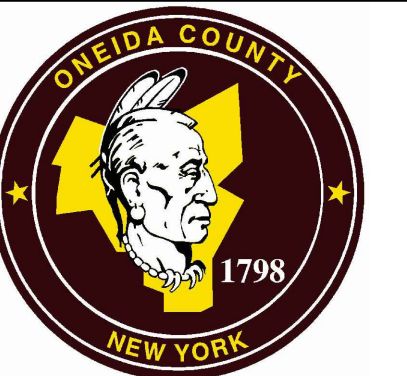
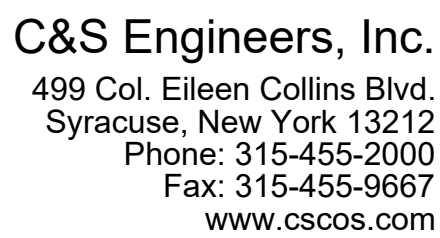
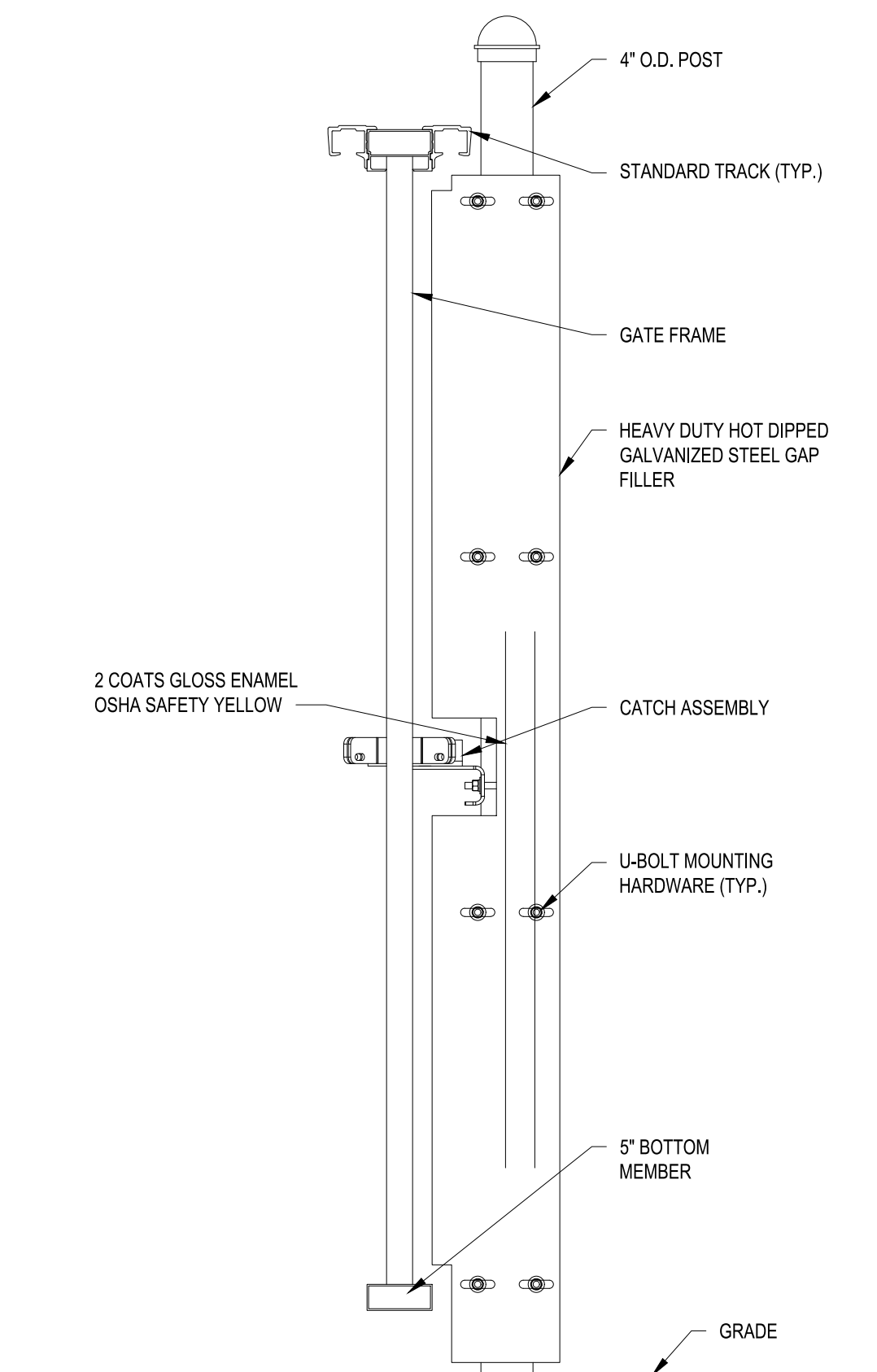
SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



**GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	146.205.005	
DATE:	MAY 2, 2025	
DRAWN BY:	B. BUCKINGHAM	
DESIGNED BY:	C. BRUBACH	
CHECKED BY:	E. N. KENNA, P.E.	
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

FENCE AND GATE DETAILS

XF-502

SHEET NO. 58 OF 58

Copyright ©

May 05, 2025 - 10:33am
F:\Project\1146 - ONEIDA COUNTY\146205005 - Triangle Development - Access Rd & Utilities\Design\CADD\Sheet Files\146205005 XF-Details.dwg