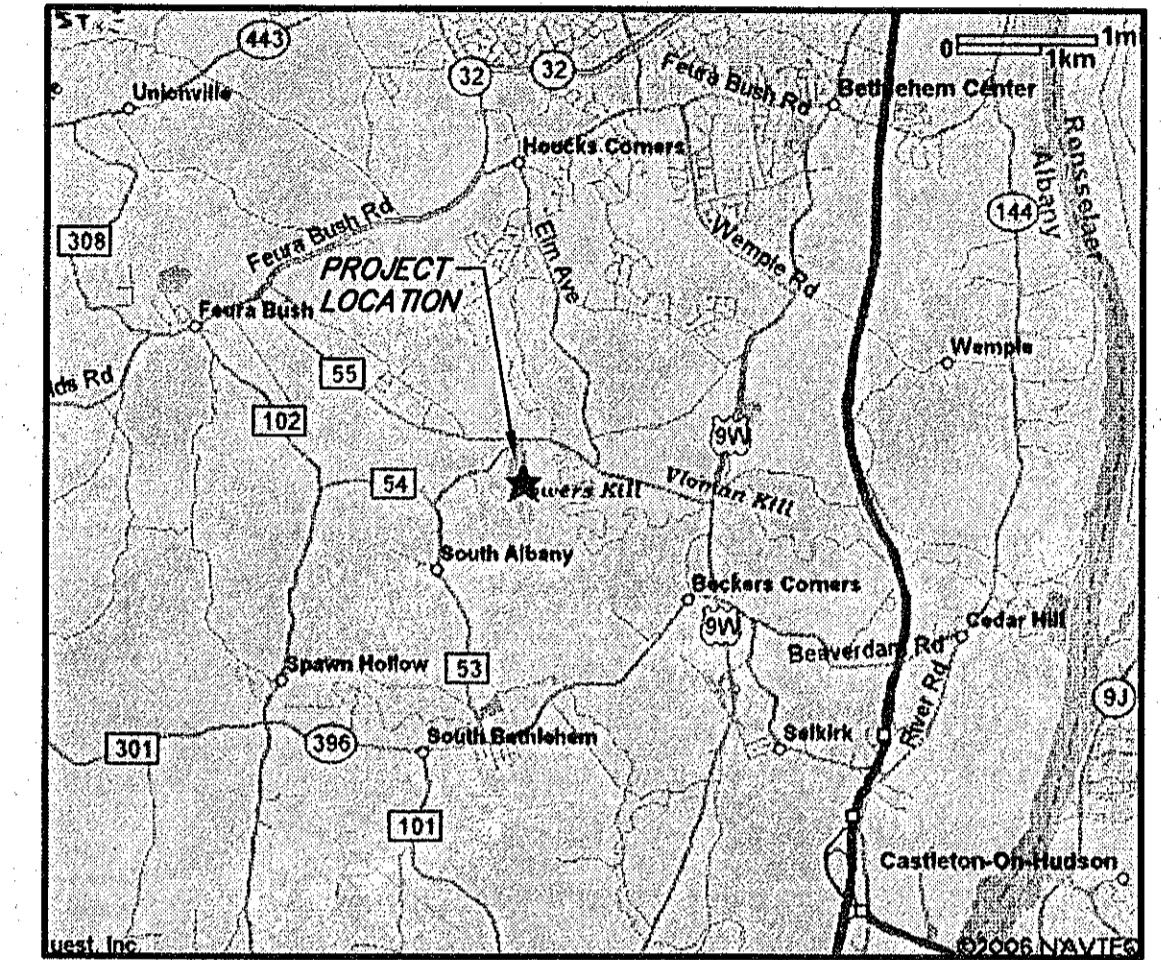


CONTRACT DRAWINGS FOR
TRANSIENT AIRCRAFT
PARKING APRON AND T-HANGAR

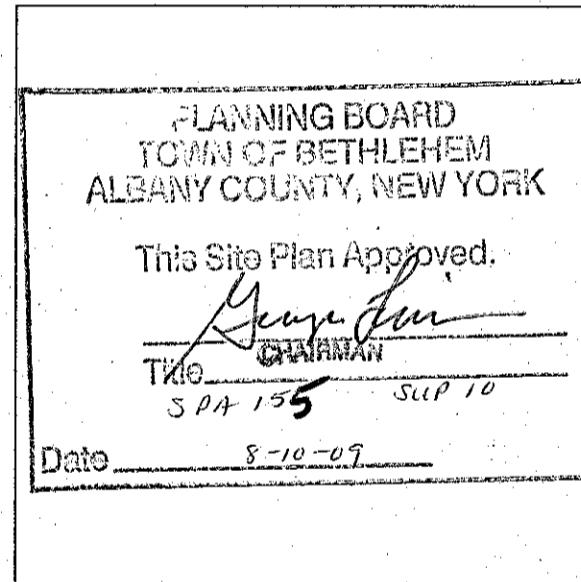
SOUTH ALBANY AIRPORT (4BO)
SELKIRK, NEW YORK



LOCATION MAP
NOT TO SCALE

SOUTH ALBANY AIRPORT CORPORATION
SELKIRK, NEW YORK
JULY, 2009

TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL

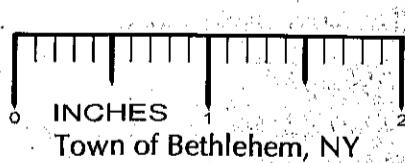


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AUG 10 2009
PLANNING BOARD
TOWN OF BETHLEHEM

OWNER/APPLICANT:
SOUTH ALBANY AIRPORT CORPORATION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROJECT NO. 1915.52

SITE PLAN REVIEW



Passero Associates
100 Liberty Pole Way, Rochester, NY 14604
585-325-1090 FAX: 585-325-1091 www.passero.com
Engineering Surveying
Architecture Planning
N.Y.S.P.E. LICENSE NO. 071383

BA

SUBMITTED BY: *Shawn R. Bray* DATE: *08/10/09*
SHAWN R. BRAY, P.E.

SOUTH ALBANY AIRPORT

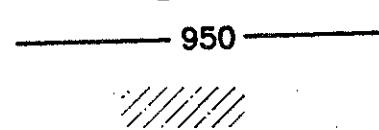
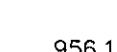
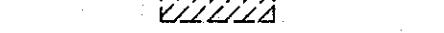
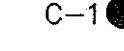
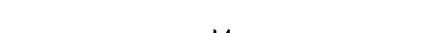
APPROVED BY: _____ DATE: _____
PRESIDENT

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION

APPROVED BY: _____ DATE: _____
DIRECTOR

SPA 155
PBF 10/09

LEGEND

<u>R.O.W.</u>	RIGHT OF WAY LINE
<u>P</u>	EXISTING PROPERTY LINE
<u>EAPL/FAPL</u>	AIRPORT PROPERTY LINE EXISTING/FUTURE
<u>— — — — —</u>	CENTERLINE PROPOSED RUNWAY/TAXIWAY
○	EXISTING LIGHT UNIT (TO BE REMOVED)
○	EXISTING LIGHT UNIT
○	PROPOSED LIGHT UNIT 1
○	PROPOSED LIGHT UNIT 2
<u>— — — — —</u>	EXISTING WATERWAY
<u>— — — — —</u>	EXISTING CENTERLINE SWALE
	PROPOSED CENTERLINE SWALE W/FLOW DIRECTION
SWALE 957	EXISTING CONTOUR
<u>950</u>	PROPOSED CONTOUR
	CLEARING & GRUBBING
	CLEARING & GRUBBING ALTERNATE AREA
956.1 X	EXISTING SPOT ELEVATION
956.5 X	PROPOSED SPOT ELEVATION
	PROPOSED DUCT BANK
	EXISTING EDGE OF TREES / BRUSH
	EXISTING BUILDING
	PROPOSED BUILDING
	PROPOSED STORM DRAINAGE PIPE W/ END SECTIONS
C-1 ●	PAVEMENT CORE
B-1 ○	SOIL BORING W/ IDENTIFICATION NUMBER
TP-1 □	TEST PIT W/ IDENTIFICATION NUMBER
	LIGHT STONE FILL
<u>— — — — —</u>	RUNWAY OBJECT FREE AREA (ROFA)
<u>— — — — —</u>	RUNWAY SAFETY AREA (RSA)/ TAXIWAY SAFETY AREA (TSA)
	PROPOSED OBSTRUCTION LIGHT
	PROPOSED NEW LIGHT POLE W/ OBSTRUCTION LIGHT
	STAKED STRAW BALES
	STAKED STRAW BALES
	SEDIMENT FENCE
	NORTH AMERICAN GREEN LINED SWALE
○	EXISTING RETROREFLECTIVE MARKER
○	PROPOSED RETROREFLECTIVE MARKER
CP-1 BM-1	SURVEY CONTROL POINT AND SITE BENCH MARK
<u>○ — ○ — ○ —</u>	EXISTING CHAIN LINK FENCE
Ø ^{PP}	EXISTING POWER POLE
Ø ^{LP}	EXISTING POWER POLE W/LIGHT
Ⓜ	ELECTRIC CABLE MARKER
Ⓓ	ELECTRIC DUCT MARKER

ABBREVIATIONS

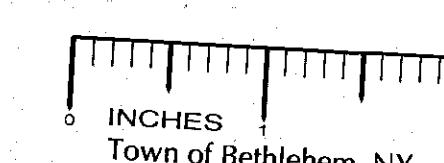
&	AND
ABND	ABANDONED
ADJ	ADJUST
AOBE	AS ORDERED BY THE ENGINEER
ASPH	ASPHALT
BIT	BITUMINOUS
B	BASELINE
BM	BENCH MARK
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CB	CATCH BASIN
C	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE (ARCH)
CP	CONTROL POINT
Δ	DELTA
D	DEGREE OF CURVATURE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVEWAY / DRAINAGE STRUCTURE WITH No. e.g. DR 6
e	CENTER OF CORRECTION
E	EXTERNAL DISTANCE
EL / ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ES	END SECTION
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EXIST / EX	EXISTING
FBO	FIXED BASED OPERATOR
FI	FIELD INLET
G	GAS LINE
GR	GRAVEL
GV	GAS VALVE
GVGI	GENERIC VISUAL GLIDESLOPE INDICATOR
HCL	HORIZONTAL CONTROL LINE
HORIZ	HORIZONTAL
HP	HIGH POINT
HYD	HYDRANT
INV	INVERT
IP	IRON PIPE
LF	LINEAR FEET
LP / L POLE	LIGHT POLE
LP	LOW POINT
MH	MANHOLE
MAX	MAXIMUM
MIRL	MEDIUM INTENSITY RUNWAY LIGHT
MON	MONUMENT
M	MONUMENT LINE
N/F	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
OHE	OVERHEAD ELECTRIC
P	PARCEL
PAPI	PRECISION APPROACH PATH INDICATOR
PAV'T	PAVEMENT
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	PORTLAND CONCRETE CEMENT / POINT OF COMPOUND CUR
PI	POINT OF INTERSECTION
PK	PK NAIL (SURVEY MARKER)
P	PROPERTY LINE
PP	POWER POLE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS OF CURVE
RCP	REINFORCED CONCRETE PIPE
RE	RESIDENT ENGINEER
(REC)	RECORD
REIL	RUNWAY END IDENTIFICATION LIGHTS
ROFA	RUNWAY OBJECT FREE AREA
ROW	RIGHT-OF-WAY
RPZ	RUNWAY PROTECTION ZONE
RR	RAILROAD
RSA	RUNWAY SAFETY AREA
RW	RETAINING WALL
R/W	RUNWAY
S	SIGN
SAN	SANITARY
SFCMPA	SMOOTH FLOW CORRUGATED METAL PIPE (ARCH)
SP	SPECIAL
STA	STATION
STD	STANDARD
STY	STORY
SW	SIDEWALK
T	TELEPHONE LINE
TG	TOP OF GRATE
TGL	THEORETICAL GRADE LINE
TL	TANGENT LENGTH
TSA	TAXIWAY SAFETY AREA
TRANS	TRANSITION
TYP	TYPICAL
T/W	TAXIWAY
USC&GS	UNITED STATES COASTAL AND GEODETIC SURVEY
V	VALVE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VT	VITRIFIED TILE
VTP	VITRIFIED TILE PIPE
W	WATER LINE
WV	WATER VALVE
XVCP	EXTRA STRENGTH VITRIFIED CLAY PIPE

INDEX TO SHEETS

<u>DRAWING NO.</u>	<u>TITLE</u>
1	COVER SHEET
2	INDEX, LEGEND, ABBREVIATIONS AND QUANTITIES FOR CANVAS OF BID
3	SITE PLAN
4	GEOMETRY PLAN
5	GRADING AND DRAINAGE PLAN
6	EROSION AND SEDIMENT CONTROL PLANS
7	MARKING PLAN
8-10	DETAILS

QUANTITIES FOR CANVAS OF BIDS

SPEC ITEM NO.	DESCRIPTION	QUANTITY/ UNIT
08502.5014	SAWCUTTING	780 LF
A-300.2	TIE-DOWN ANCHORS (IN PAVEMENT)	36 EA
D-701.08	8" DIA. HDPE PIPE, SMOOTH INTERIOR	550 LF
D-701.12ES	12" CORRUGATED STEEL PIPE END SECTION	1 EA
D-701.18	18" DIA. HDPE PIPE, SMOOTH INTERIOR	150 LF
D-701.21ES	21" CORRUGATED STEEL PIPE END SECTION	2 EA
D-705-6.1	6" PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING AND FITTINGS	300 LF
D-710	STABILIZATION FABRIC	3,500 SY
D-751-6.1	CATCH BASIN, COMPLETE	4 EA
L-110-6.2	2" GALVANIZED RIGID STEEL CONDUIT (INCLUDING EXCAVATION AND BACKFILL)	210 LF
P-152-6.1	UNCLASSIFIED EXCAVATION	1,500 CY
P-152-6.3	EMBANKMENT IN PLACE	100 CY
P-155	SUBBASE COURSE	750 CY
P-156	SOIL EROSION AND SILTATION CONTROL	1 LS
P-409-5.1	19mm F9 SUPERPAVE HMA, 70 SERIES COMPACTION, NYSDOT ITEM 402.197901M	500 TON
P-409-5.2	12.5mm F3 SUPERPAVE HMA, 70 SERIES COMPACTION, NYSDOT ITEM 402.127301M	300 TON
P-610	CONCRETE PAVEMENT	11,300 SF
P-612.1	ENGINEER'S FIELD OFFICE	1 FIXED
P-620	RUNWAY AND TAXIWAY PAINTING	700 SF
S-140.1	SPOIL AREA/STOCKPILE	1 LS
S-126-5.1	PROJECT SURVEY AND STAKEOUT	1 LS
T-901	SEEDING	0.2 AC
T-905	TOPSOILING	100 CY
M-100	MAINTENANCE & PROTECTION OF TRAFFIC	1 LS
M-200	MOBILIZATION (4% SUB. MAX)	1 LS



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<h1>Index</h1>	
<h2>Transient Aircraft Parking Apron & T-Hangar South Albany Airport</h2>	
Town/City: Bethlehem	
County: Albany	State: New York
Project No.	25247.05
Drawing No.	2
	Sheet No.
Scale:	N.T.S.
Date	July, 2009

RA

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**TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL**

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK

Client:
**South Albany
Airport Corporation**
6 Old School Road
Selkirk, New York 12158
(518) 767-9189

Passero Associates
100 Liberty Pole Way (585) 325-1000
Rochester, New York 14604 Fax: (585) 325-1691

Principal-in-Charge Wayne F. Wegman, P.E.
Project Manager Shawn R. Bray P.E.
Designed by SRB, MAS



Revisio

REVISIONS

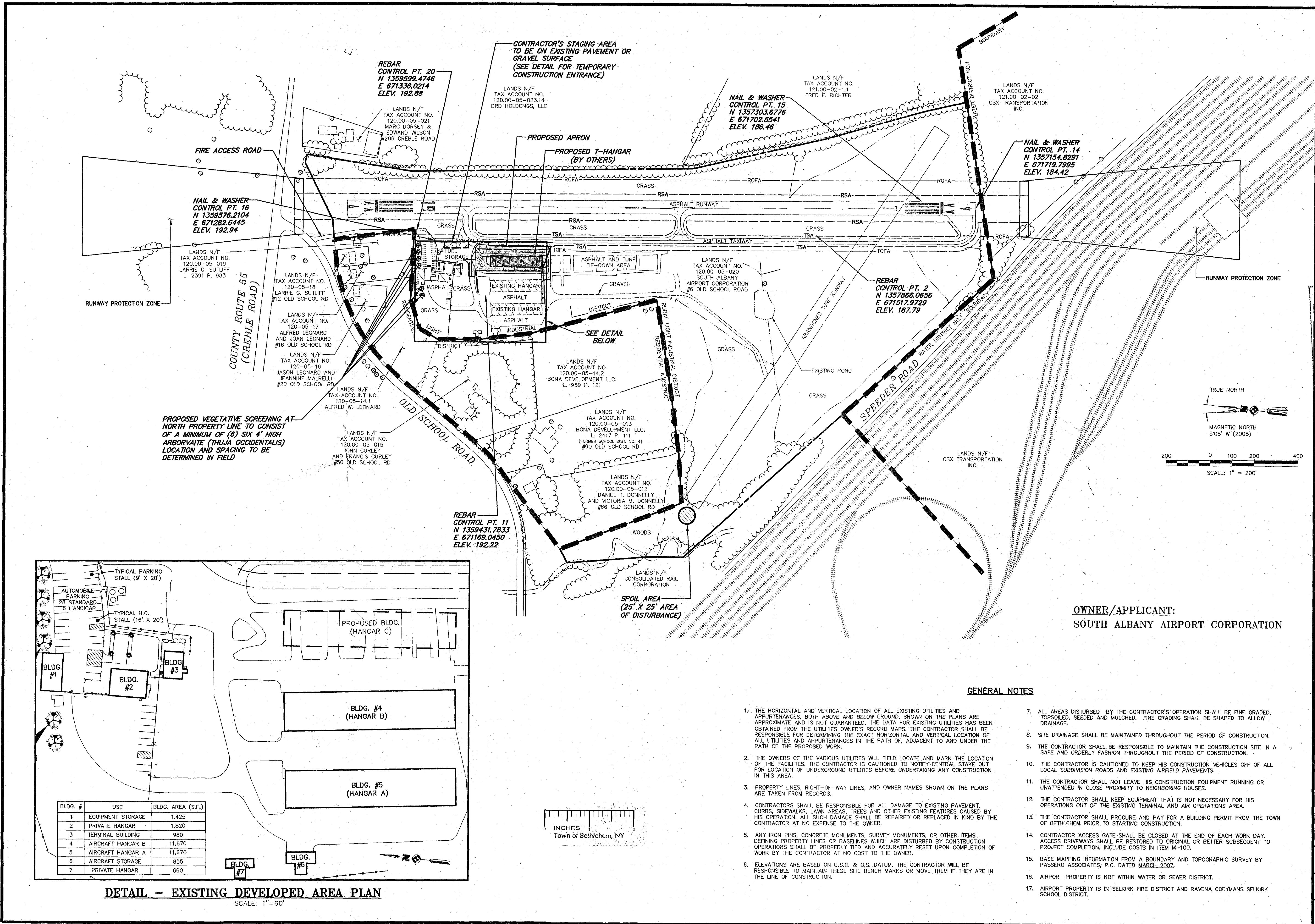
Index

Transient Aircraft Parking Apron & T-Hangar South Albany Airport

Town/City: Bethlehem
County: Albany State: New York

25247.05

Drawing No.	Sheet No.
2	
Scale:	N.T.S.
Date	July, 2009



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ENGINEERING • **ARCHITECTURE**

**TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL**

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK

This Site Plan Approved.
George Jain
Title CHAIRMAN
SPA 155 SUP 10
Date 8-10-09

Client:
**South Albany
Airport Corporation**
6 Old School Road
Selkirk, New York 12158
(518) 767-9189

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Principal-in-Charge Wayne F. Wegman, P.E.
Project Manager Shawn R. Bray P.E.
Designed by SRB MAS



OWNER/APPLICANT:
SOUTH ALBANY AIRPORT CORPORATION

GENERAL NOTE

1. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND APPURTENANCES, BOTH ABOVE AND BELOW GROUND, SHOWN ON THE PLANS ARE APPROXIMATE AND IS NOT GUARANTEED. THE DATA FOR EXISTING UTILITIES HAS BEEN OBTAINED FROM THE UTILITIES OWNER'S RECORD MAPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES AND APPURTENANCES IN THE PATH OF, ADJACENT TO AND UNDER THE PATH OF THE PROPOSED WORK.
2. THE OWNERS OF THE VARIOUS UTILITIES WILL FIELD LOCATE AND MARK THE LOCATION OF THE FACILITIES. THE CONTRACTOR IS CAUTIONED TO NOTIFY CENTRAL STAKE OUT FOR LOCATION OF UNDERGROUND UTILITIES BEFORE UNDERTAKING ANY CONSTRUCTION IN THIS AREA.
3. PROPERTY LINES, RIGHT-OF-WAY LINES, AND OWNER NAMES SHOWN ON THE PLANS ARE TAKEN FROM RECORDS.
4. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, CURBS, SIDEWALKS, LAWN AREAS, TREES AND OTHER EXISTING FEATURES CAUSED BY HIS OPERATION. ALL SUCH DAMAGE SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
5. ANY IRON PINS, CONCRETE MONUMENTS, SURVEY MONUMENTS, OR OTHER ITEMS DEFINING PROPERTY LINES OR BASELINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET UPON COMPLETION OF WORK BY THE CONTRACTOR AT NO COST TO THE OWNER.
6. ELEVATIONS ARE BASED ON U.S.C. & G.S. DATUM. THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN THESE SITE BENCH MARKS OR MOVE THEM IF THEY ARE IN THE LINE OF CONSTRUCTION.
7. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE FINE GRADED, TOPSOILED, SEEDED AND MULCHED. FINE GRADING SHALL BE SHAPED TO ALLOW DRAINAGE.
8. SITE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONSTRUCTION SITE IN A SAFE AND ORDERLY FASHION THROUGHOUT THE PERIOD OF CONSTRUCTION.
10. THE CONTRACTOR IS CAUTIONED TO KEEP HIS CONSTRUCTION VEHICLES OFF OF ALL LOCAL SUBDIVISION ROADS AND EXISTING AIRFIELD PAVEMENTS.
11. THE CONTRACTOR SHALL NOT LEAVE HIS CONSTRUCTION EQUIPMENT RUNNING OR UNATTENDED IN CLOSE PROXIMITY TO NEIGHBORING HOUSES.
12. THE CONTRACTOR SHALL KEEP EQUIPMENT THAT IS NOT NECESSARY FOR HIS OPERATIONS OUT OF THE EXISTING TERMINAL AND AIR OPERATIONS AREA.
13. THE CONTRACTOR SHALL PROCURE AND PAY FOR A BUILDING PERMIT FROM THE TOWN OF BETHLEHEM PRIOR TO STARTING CONSTRUCTION.
14. CONTRACTOR ACCESS GATE SHALL BE CLOSED AT THE END OF EACH WORK DAY. ACCESS DRIVEWAYS SHALL BE RESTORED TO ORIGINAL OR BETTER SUBSEQUENT TO PROJECT COMPLETION. INCLUDE COSTS IN ITEM M-100.
15. BASE MAPPING INFORMATION FROM A BOUNDARY AND TOPOGRAPHIC SURVEY BY PASSERO ASSOCIATES, P.C. DATED MARCH 2007.
16. AIRPORT PROPERTY IS NOT WITHIN WATER OR SEWER DISTRICT.

Site Plan

Transient Aircraft Parking Apron & T-Hangar South Albany

Airport

County: Albany State: New York
Project No. 25-17-27

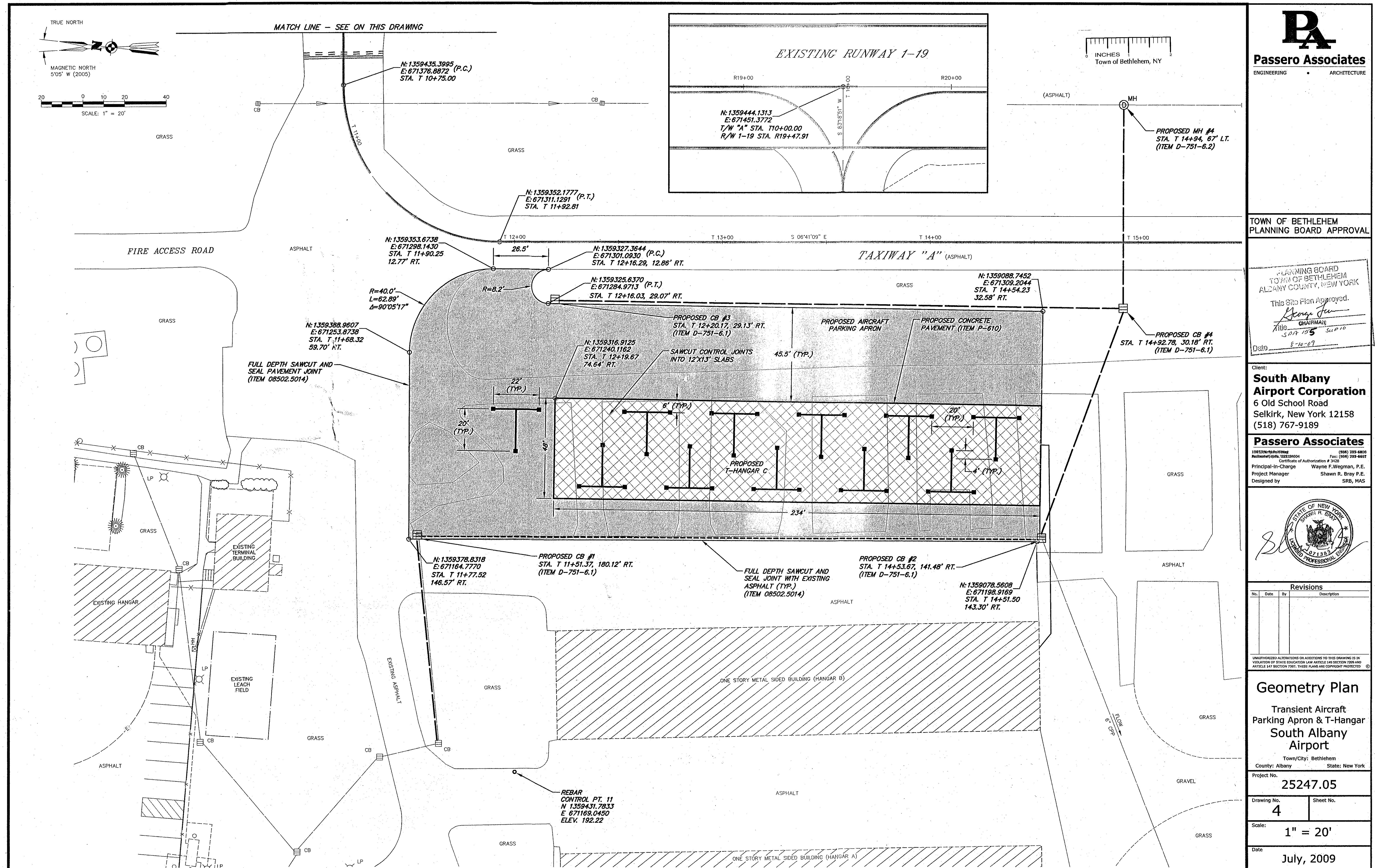
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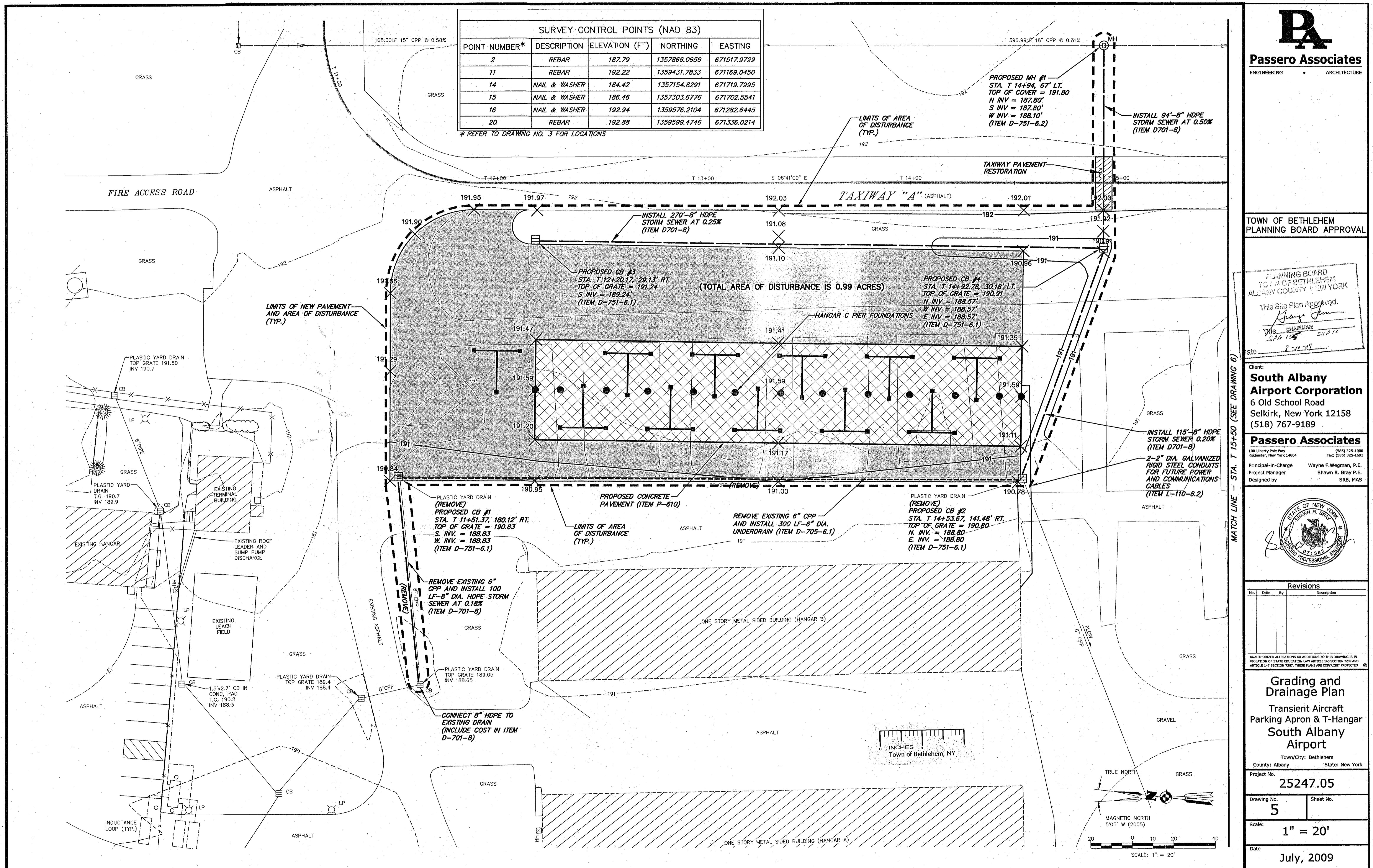
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Scale: 1" = 200'

Date 1-1-2000

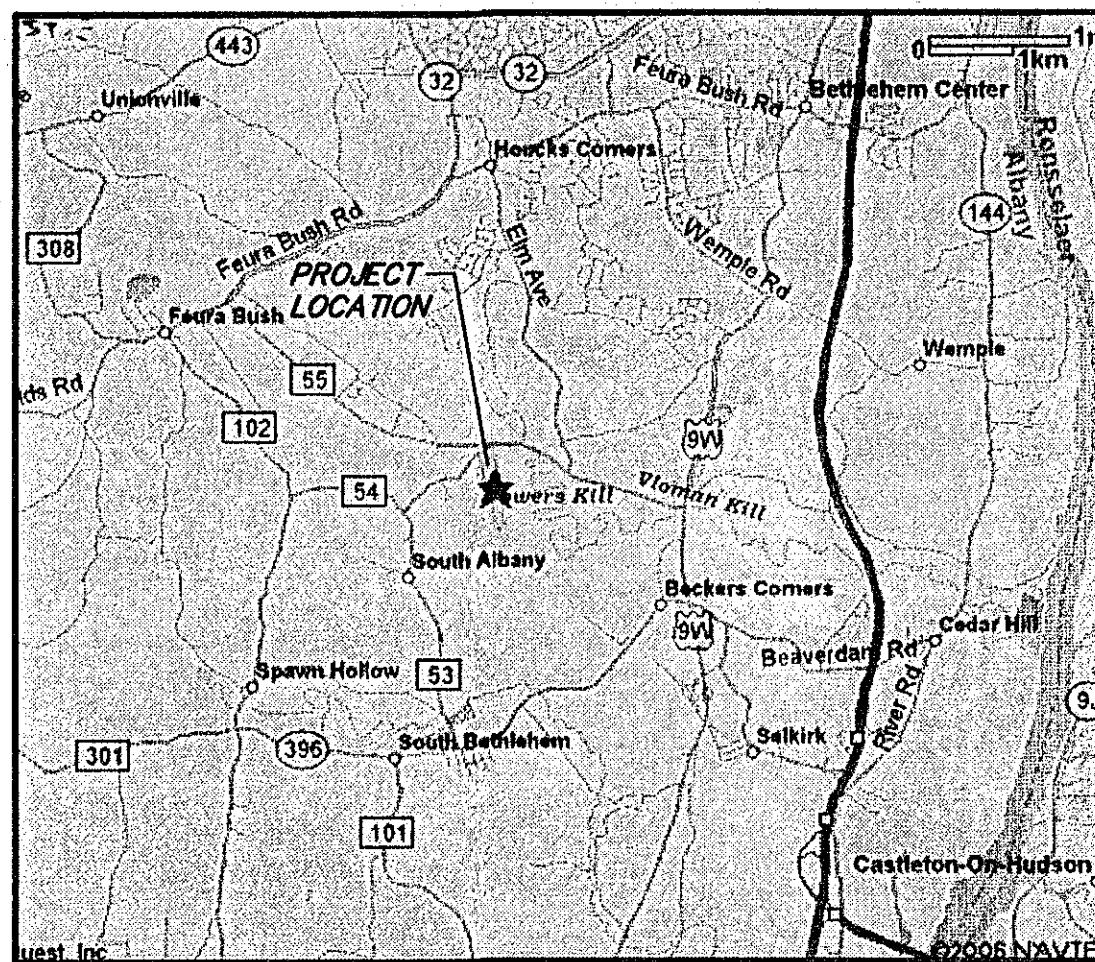
July, 2009





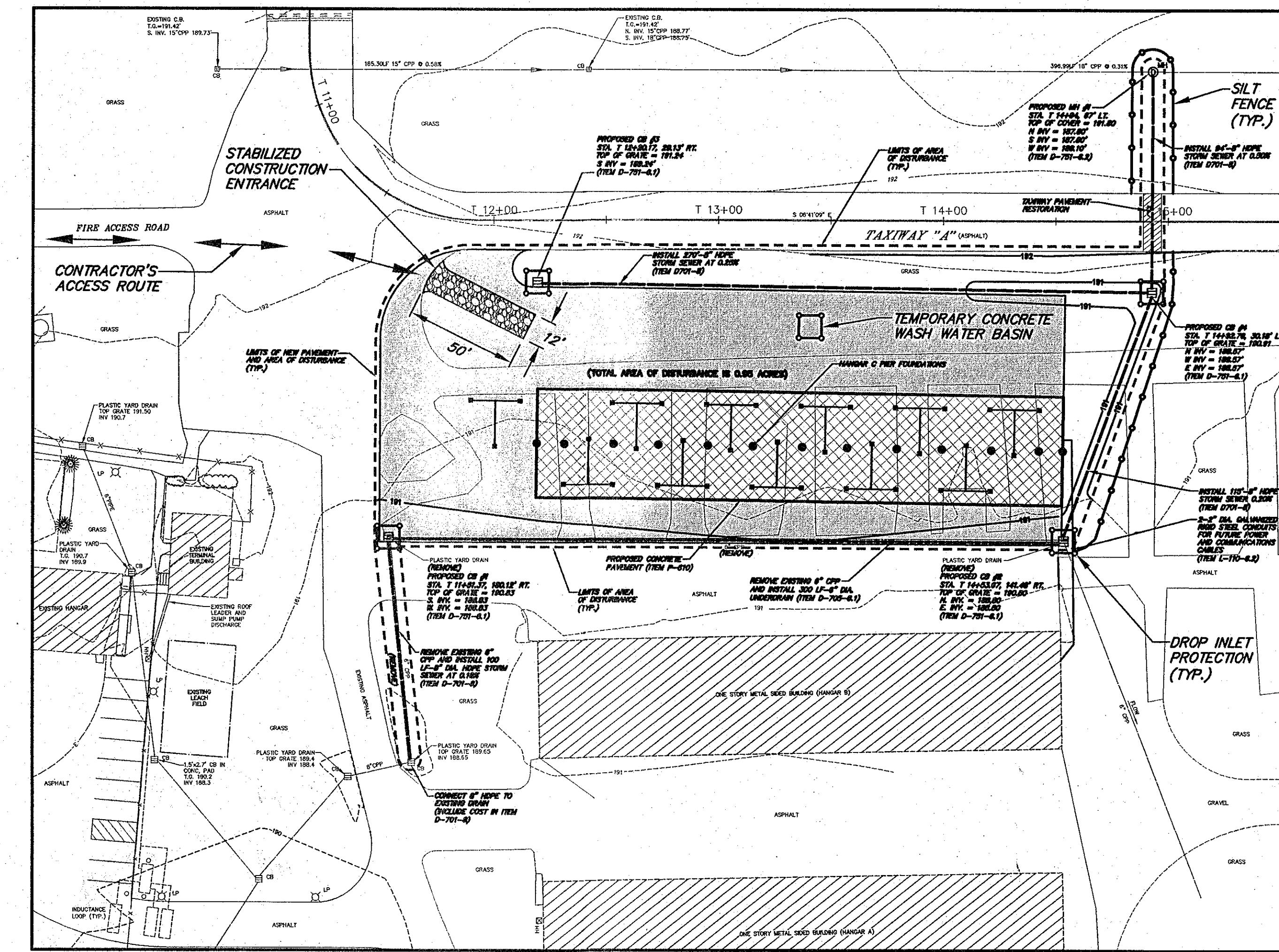


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LOCATION MAP

NOT TO SCALE

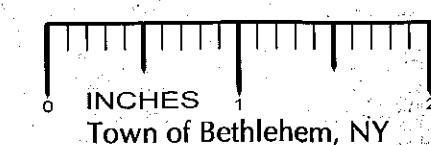


PLAN - EROSION AND SEDIMENT CONTROL

SCALE: 1"=40'

SOIL EROSION CONTROL NOTES:

- THE SOIL EROSION AND WATER POLLUTION CONTROL PLANS AND DETAILS AS SHOWN ARE INTENDED TO REFLECT THE MINIMUM REQUIREMENTS TO SATISFY ITEM P-156.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY EXISTING ADJACENT STREAMS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS.
- ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
- ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF ON-SITE AND SHALL BE SUITABLY STABILIZED SO THAT IT CANNOT EASILY RE-ENTER ANY WATER BODY OR WETLAND AREA.
- THE STAKES SHALL BE DRIVEN INTO THE GROUND IN SUCH A MANNER THAT THE STRAW BALES ARE FORCED TOGETHER AND SECURED IN PLACE.
- PERIODIC CLEANING AND MAINTENANCE OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES MAY BE NECESSARY AND WILL BE REQUIRED AS DETERMINED BY THE ENGINEER.
- EROSION CONTROLS SHALL BE PLACED AS DIRECTED BY THE ENGINEER PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE NEW WORKS ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION AND PERMANENT VEGETATION IS AT LEAST 2' HIGH.
- IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SETTING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS ADJACENT FLOWING STREAMS.
- THE COST OF INSTALLING, CLEANING, MAINTAINING & REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE PAID FOR UNDER ITEM P-156.



CONSTRUCTION SCHEDULE

- Obtain plan approval and building permit.
- Set up contractor staging area and engineer's office.
- Set up maintenance and protection of traffic measures as specified on plans.
- Install stabilized construction entrance, silt fence and other erosion control measures as specified on plans.
- Strip and stockpile topsoil.
- Demolition of existing bituminous pavement and aircraft tie-down anchors.
- Excavation for building foundation.
- Form and pour footings and piers.
- Backfill and compact subgrade, install building slab.
- Erect building structure.
- Installation of storm sewers, and underdrain. Install filter fabric drop inlet protection.
- Stabilize disturbed areas and stockpiles within 14 days of last construction activity in that area.
- Place subbase material and pavement structure.
- When pavement structure is complete, install final pavement markings.
- Final grading, seeding, and mulching of all disturbed areas.
- When all work areas are complete and the entire area is stabilized, remove the erosion control and maintenance and protection of traffic measures.
- Estimated time to complete work - 4 months.

Planned Erosion and Sediment Control Practices

Temporary Stabilized Construction Entrance

A temporary stabilized construction entrance will be installed at the northeast corner of the construction site where construction vehicle will enter on to the existing asphalt pavement access route. The entrance will be constructed according to the details shown on the plans and the New York Standards and Specifications for Erosion and Sediment Control.

Drop Inlet Protection

Drop inlet protection will be installed at four proposed catch basin structures located at the corners of the site. The devices will be constructed according to the details shown on the plans.

Siltation Fence

A siltation barrier constructed according to the details shown on the plans will be installed adjacent to the storm drain pipe excavation and across the south portion of the construction site where sediment has the potential to migrate across undisturbed land. The remaining boundaries of the site are adjacent to existing pavements where a silt fence would be inappropriate.

Surface Stabilization

Temporary Stabilization - Disturbed portions of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in that area. The temporary seed shall be Rye (grain) applied at the rate of 120 pounds per acre. Prior to seeding, 2,000 pounds per acre of ground agricultural limestone and 1,000 pounds per acre of 10-10-10 fertilizer shall be applied. Areas of the site which are to be paved will be temporarily stabilized by applying geotextile and stone sub-base until bituminous pavement can be installed.

Narrative

Project Description

The project will consist of constructing a 10 bay open T-hangar with an approximately 234' x 48' concrete slab and approximately 24,000 square feet of asphalt pavement, including installation of drainage improvements and pavement markings. Soil disturbing activities will include grading, clearing, installation of catch basins and storm drains, construction of both flexible and rigid pavement, and preparation of disturbed areas for topsoil and seeding. The total area of disturbance is 0.99 acres.

Site Description

The area of proposed development is currently used as an aircraft tie-down area. The new hangar location is between an existing T-hangar building and the parallel taxiway "Taxiway A". The topography is flat with slopes less than 2% in any direction. The ground cover in the area is a mix of asphalt pavement and turf.

Adjacent Property

Adjacent parcels are zoned Rural Light Industrial (RL), Heavy Industrial (I) and Residential A (RA). Residences are located to the north and west of the site. The CSX Transportation rail yards are located to the south and west. Parcels to the east are primarily agricultural.

Soils

Soils on the site are Rhinebeck silty clay loam, 0 to 3 percent slopes (RHA) according to USDA Natural Resources Conservation Service National Cooperative Soil Survey for Albany County, New York. This nearly level soil is very deep and somewhat poorly drained. The seasonal high water table in this soil is typically at a depth of 1/2 foot to 1 1/2 feet. Depth to bedrock is more than 60 inches. Permeability is moderately slow in the surface and subsurface layers and slow below. The available water capacity is moderate and runoff is slow.

TOWN OF BETHLEHEM PLANNING BOARD APPROVAL

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
George Lien
Title CHAIRMAN
SAP 156 SUP 10
Date 8-10-09

Client:
South Albany Airport Corporation
6 Old School Road
Selkirk, New York 12158
(518) 767-9189

Passero Associates
100 Liberty Pole Way
Rochester, New York 14609
(585) 325-1000
Fax: (585) 325-1691

Principal-In-Charge Wayne F. Wegman, P.E.
Project Manager Shawn R. Bray P.E.
Designed by SRB, MAS



Revisions

No.	Date	By	Description
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Erosion and Sediment Control Plan

Transient Aircraft
Parking Apron & T-Hangar
South Albany Airport

Town/City: Bethlehem State: New York

Project No. 25247.05
Drawing No. 6.0 Sheet No.

Scale: 1" = 40'

Date July, 2009



Passero Associates
ENGINEERING • ARCHITECTURE

CB Protection

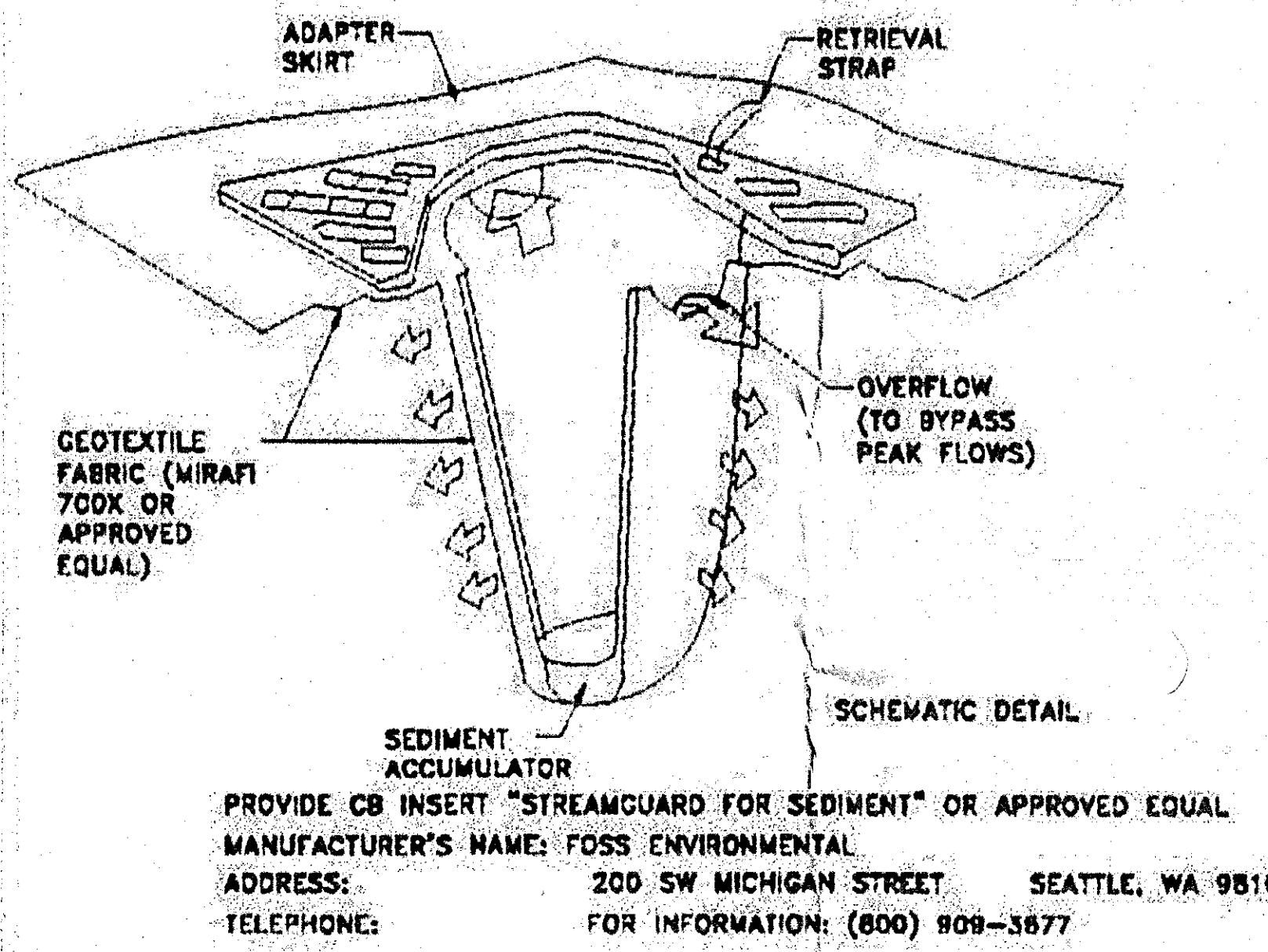
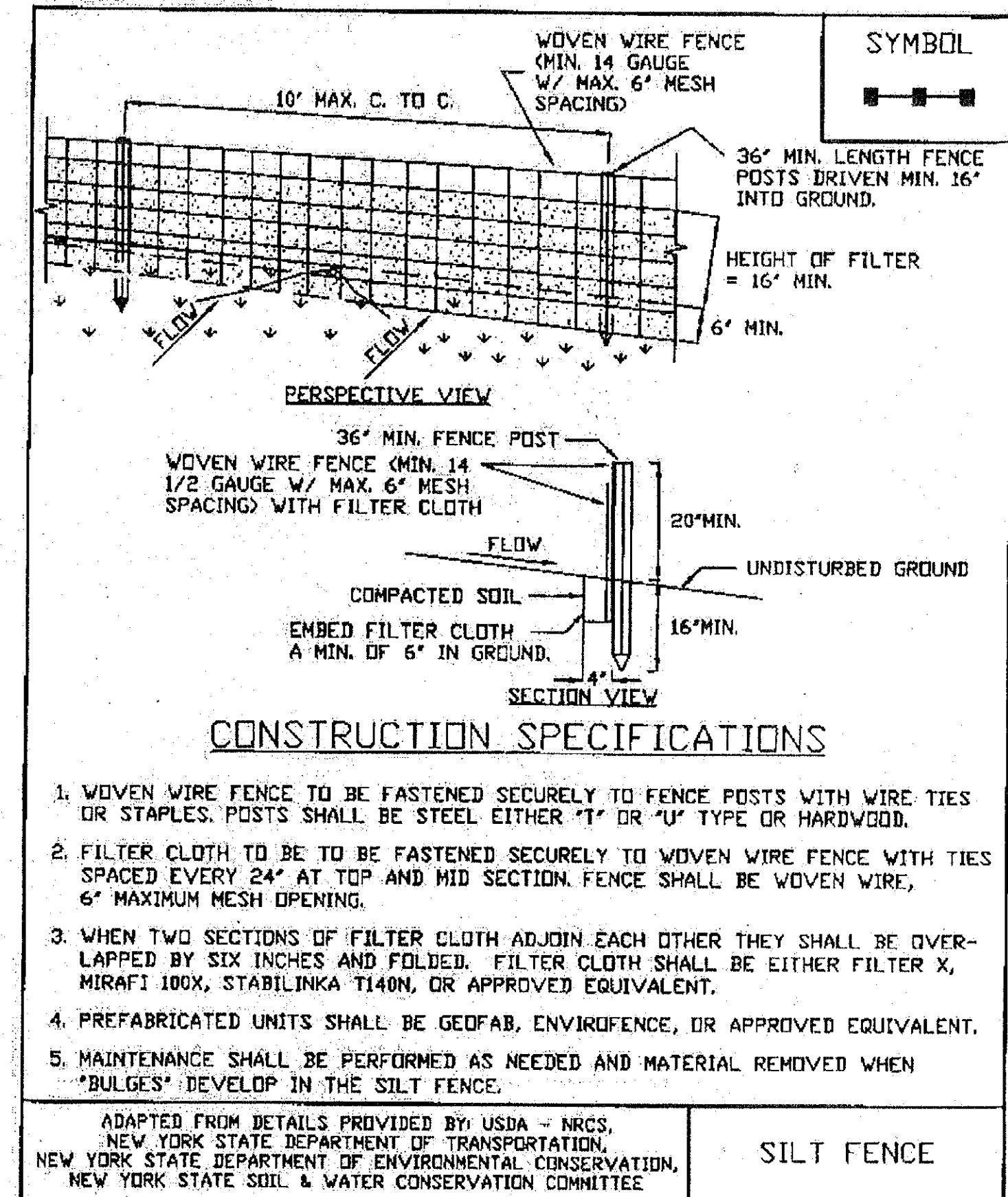


Figure 5A.8
Silt Fence



August 2005

Page 5A.21

New York Standards and Specifications
For Erosion and Sediment Control

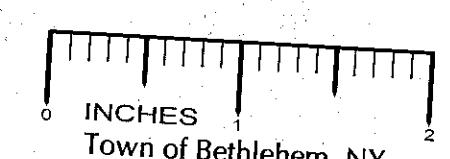
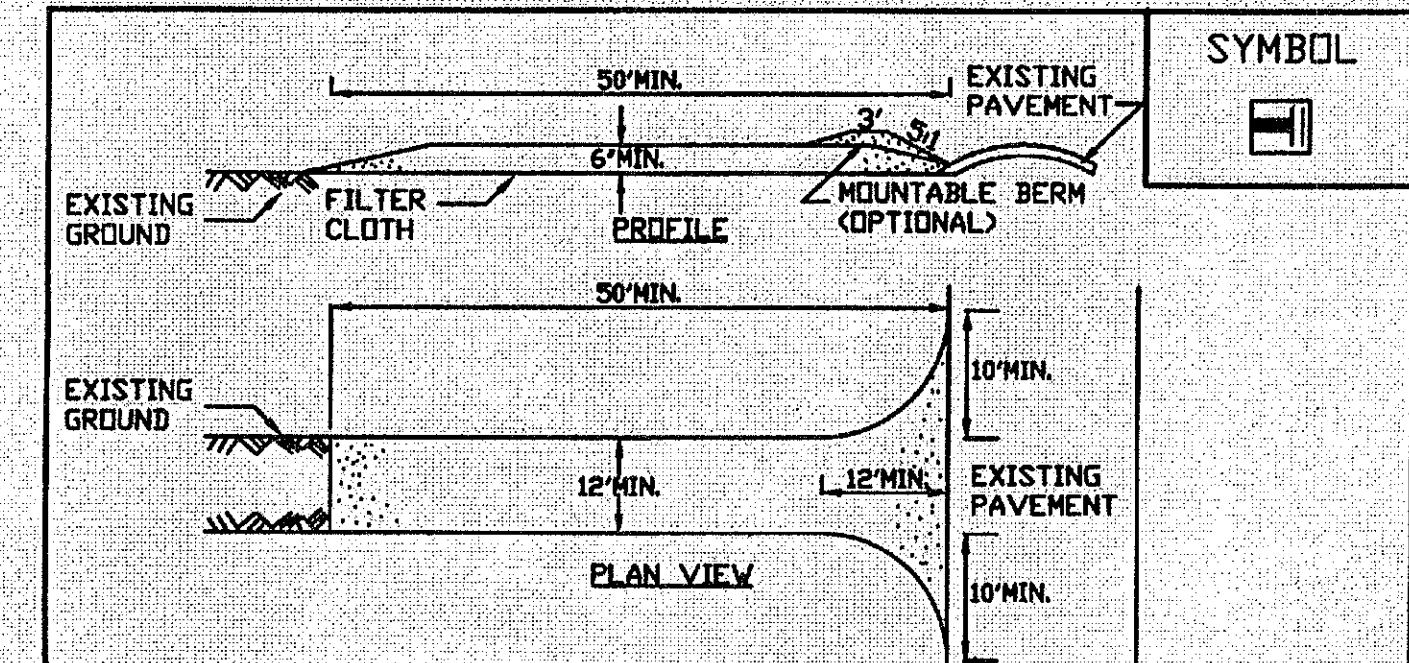


Figure 5A.35
Stabilized Construction Entrance



1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BEHIND THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRICKLING EROSION OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT TRICKLING DOWNPIPE MUST BE WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ENTRANCE

New York Standards and Specifications
For Erosion and Sediment Control

Page 5A.76

August 2005

TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL

PLANNING BOARD
CITY OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
Haze Lien
TODD CHAIRMAN
SOT 155 SUP 10
Date 8-10-09

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Airport Corporation**
6 Old School Road
Selkirk, New York 12158
(518) 767-9199

Passero Associates
100 Liberty Pole Way
Rochester, New York 14604
Fax: (585) 225-1000
Principal-In-Charge Wayne F. Wegman, P.E.
Project Manager Shawn R. Bray, P.E.
Designed by SRB, MAS



Revisions

No.	Date	By	Description

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Erosion and Sediment Control Plan

Transient Aircraft
Parking Apron & T-Hangar
**South Albany
Airport**

Town/City: Bethlehem
County: Albany State: New York

Project No. 25247.05
Drawing No. 6.1 Sheet No.

Scale: N.T.S.

Date July, 2009

STORM WATER POLLUTION PREVENTION PLAN

SITE DESCRIPTION			
Project Name and Location: (Latitude, Longitude, or Address)	Transient Aircraft Parking and T-Hangar South Albany Airport 6 Old School Road Selkirk, NY 12158	Owner Name and Address:	South Albany Airport Corporation 6 Old School Road Selkirk, NY 12158
Description (Purpose and Types of Soil Disturbing Activities)	The project will consist of constructing approximately 35,000 square feet of asphalt and concrete pavement, including installation of drainage improvements and pavement markings. Soil disturbing activities will include: grading, clearing and grubbing, installation of culverts, construction of both flexible and rigid pavement, and preparation of disturbed areas for topsoil and seeding.		
Runoff Coefficient:	The runoff curve number for the site is 81 after construction.		
Site Area:	The area of work encompasses approximately 0.99 acres.		
Sequence of Major Activities			
<p>The order of activities will be as follows:</p> <ol style="list-style-type: none"> 1. Set up contractor staging area and engineers office. 2. Set up maintenance and protection of traffic measures as specified on plans. 3. Install silt fence and other erosion control measures as specified on plans. 4. Strip and stockpile topsoil. 5. Clearing and grubbing. 6. Earthwork. 7. Installation of storm sewers, and underdrain. 8. Stabilize disturbed areas and stockpiles within 14 days of last construction activity in that area. 9. Place subbase material and pavement structure. 10. When pavement structure is complete, install final pavement markings. 11. Final grading, seeding, and mulching of all disturbed areas. 12. When all work areas are complete and the entire area is stabilized, remove the erosion control and maintenance and protection of traffic measures. 			
Name of Receiving Waters:	Unidentified Tributary to Coeymans Creek		

CONTROLS	
Erosion and Sediment Controls	
Stabilization Practices	
<p>Temporary Stabilization - Topsoil stock piles and disturbed portions of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in that area. The temporary seed shall be Rye (grain) applied at the rate of 120 pounds per acre. Prior to seeding, 2,000 pounds per acre of ground agricultural limestone and 1,000 pounds per acre of 10-10-10 fertilizer shall be applied. Areas of the site which are to be paved will be temporarily stabilized by applying geotextile and stone sub-base until bituminous pavement can be installed.</p> <p>Permanent Stabilization - Disturbed portions of the site where construction activities permanently cease shall be stabilized with permanent seed no later than 14 days after the last construction activity. The permanent seed mix shall be as indicated on the plans and specifications.</p>	
Structural Practices	
<p>Silt fence, hay bales, and light stone fill will be installed along flow lines and at the discharge side of culvert excavations to act as a runoff "filter" as per the plans and specifications.</p> <p>Stormwater Management</p>	
OTHER CONTROLS	
Waste Disposal:	
<p>Waste Material - All waste material will be collected and stored in a metal dumpster rented from a NYSDEC approved hauler, which is a licensed solid waste management company. The dumpster will meet all local and state solid waste management regulations. All trash and construction debris from the site will be disposed in the dumpster. The dumpster will be emptied a minimum of twice per week or more often if necessary, and the trash will be hauled to a NYSDEC approved dump. No construction waste material will be buried on site. All personnel will be instructed regarding the correct procedures for waste disposal. Notices stating these practices will be posted in the office trailer and the individual who manages the day-to-day operations will be responsible for seeing that these procedures are followed.</p> <p>Hazardous Waste - All hazardous waste materials will be disposed of in a manner specified by local and state regulations or by the manufacturer. Site personnel will be instructed in these practices and the individual who manages the day-to-day operations will be responsible for seeing that these practices are followed.</p> <p>Sanitary Waste - All sanitary waste will be collected from the portable units a minimum of three times per week by a licensed sanitary waste management contractor, as required by local regulation.</p>	

Offsite Vehicle Tracking:
The paved streets adjacent to the site will be swept daily to remove any excess mud, dirt, or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin as needed. A stabilized construction entrance will be constructed to reduce the tracking of mud, dirt, or rock from the construction site onto a street, alley, sidewalk or parking area.
TIMING OF CONTROLS/MEASURES
As indicated in the Sequence of Major Activities, the erosion and sedimentation control measures, including silt fences, will be constructed prior to clearing or grading of any other portions of the site. Areas where construction activity temporarily ceases for more than 21 days will be stabilized with a temporary seed and mulch within 14 days of the last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch.
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS
The stormwater collection and discharge reflects the NYSDEC requirements for stormwater management and erosion and sediment control. To ensure compliance, the plan will be prepared in conformance to the New York State "Guidelines for Urban Erosion and Sediment Control."
MAINTENANCE/INSPECTION PROCEDURES
Erosion and Sediment Control Inspection and Maintenance Practices These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls: <ul style="list-style-type: none">• All control measures will be inspected at least once each week and following any storm event of 0.5 inches or greater.• All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.• Built-up sediment will be removed from silt fence when it has reached one-third the height of the fence.• Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and health of growth.• A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached.• The site superintendent will select individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.• Personnel selected for inspection and maintenance responsibilities will receive training from the site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used on-site in good working order.
No-Stormwater Discharges It is expected that the following non-storm water discharges will occur from the site during the construction period: <ul style="list-style-type: none">• Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).

SPILL PREVENTION (Continued)	
Product Specific Practices	
The following product specific practices will be followed on-site:	
Petroleum Products:	All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Fuel oil for construction machinery will be stored in an above-ground tank with a suitable containment system. Material safety data sheets will be filed in the site superintendent's trailer. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.
Fertilizers:	Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. The contents of any partially used bags of fertilizer will be transferred to resalable plastic bags to avoid spills.
Paints:	All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system, but will be properly disposed of according to manufacturers' instructions or state and local regulations.
Concrete Trucks:	Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on site in a manner that prevents contamination of stormwater discharge. A designated area will be excavated or a dike constructed to contain these materials until they harden, at which time they will be covered with fill or disposed of off the site. Excess concrete or concrete that does not meet the specifications will be handled in the same manner.
Spill Control Practices	
In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:	
<ul style="list-style-type: none"> • Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies. • Materials and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose. • All spills will be cleaned up immediately after discovery. • The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substance. • Reportable spills of any petroleum based material will be reported to the appropriate state or local government agency. • The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included. • The site superintendent responsible for the day-to-day operations will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the office trailer on-site. 	

BA
Passero Associates
ENGINEERING • ARCHITECTURE

TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
George L. Sen
Chairman
SPA 155 Sept 10
Date 8/10/09

Client:
**South Albany
Airport Corporation**
6 Old School Road
Selkirk, New York 12158
(518) 767-9198

Passero Associates
100 Liberty Pole Way
Rochester, New York 14604
Fax: (585) 325-1000
Principal-in-Charge Wayne F. Wegman, P.E.
Project Manager Shawn R. Bray, P.E.
Designed by SRB, MAS



No.	Date	By	Description

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Erosion and Sediment
Control Plan

Transient Aircraft
Parking Apron & T-Hangar
**South Albany
Airport**

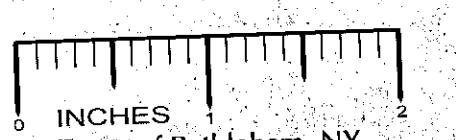
Town/City: Bethlehem
County: Albany
State: New York

Project No. 25247.05

Drawing No. 6.2 Sheet No.

Scale: N.T.S.

Date July, 2009





Passero Associates

ENGINEERING • ARCHITECTURE

TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
George J. Pavia
Chairman
Type SPA 155 SLIP 10
Date 8-10-09

Client:
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Passero Associates
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Rensselaer, NY 12144-1604
(518) 233-4400
Certificate of Authorization # 3426
Principal-in-Charge Wayne F. Wegman, P.E.
Project Manager Shawn R. Bray, P.E.
Designed by SRB, MAS



Revisions			
No.	Date	By	Description

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Marking Plan

Transient Aircraft
Parking Apron & T-Hangar
**South Albany
Airport**

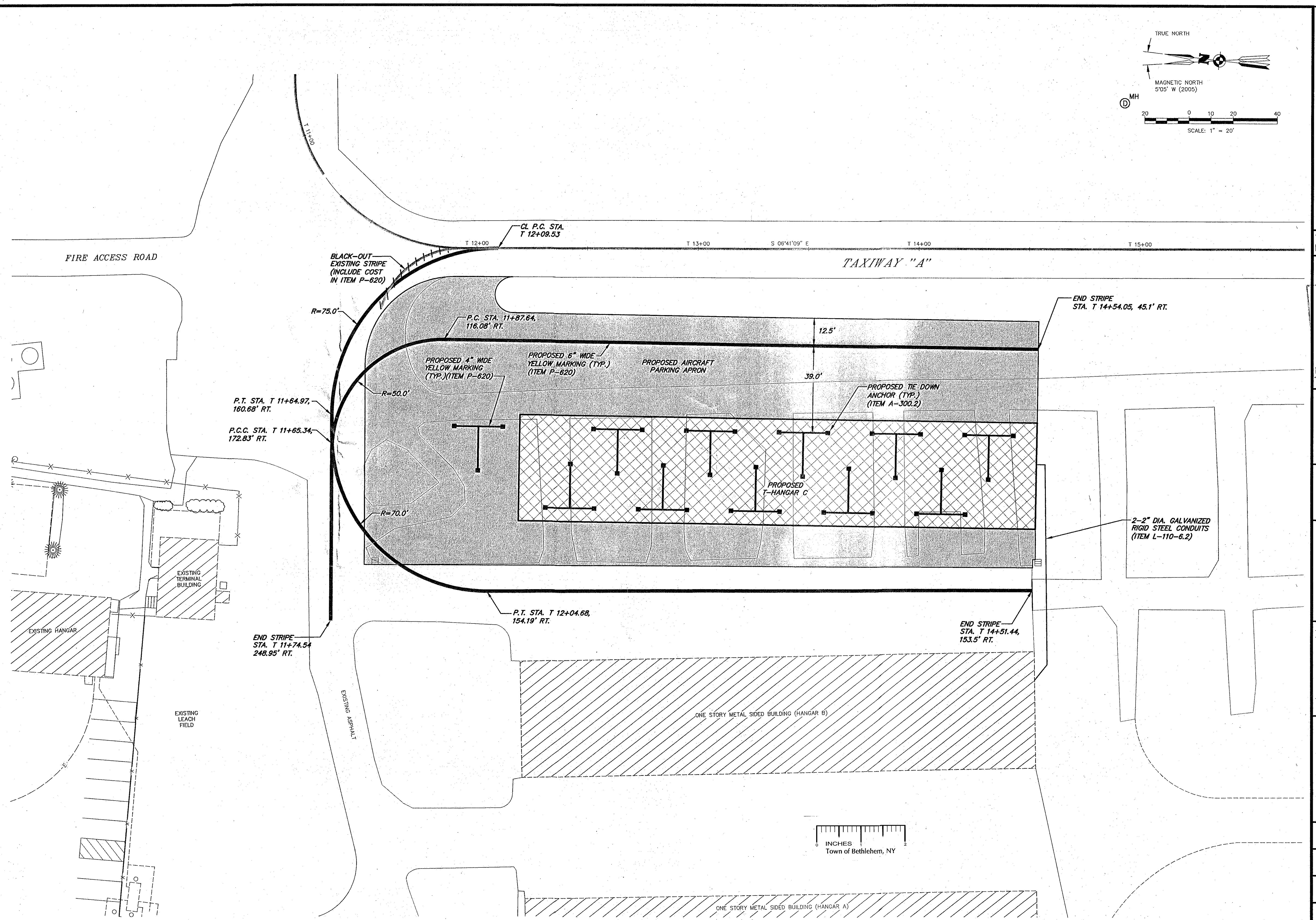
Town/City: Bethlehem
County: Albany State: New York

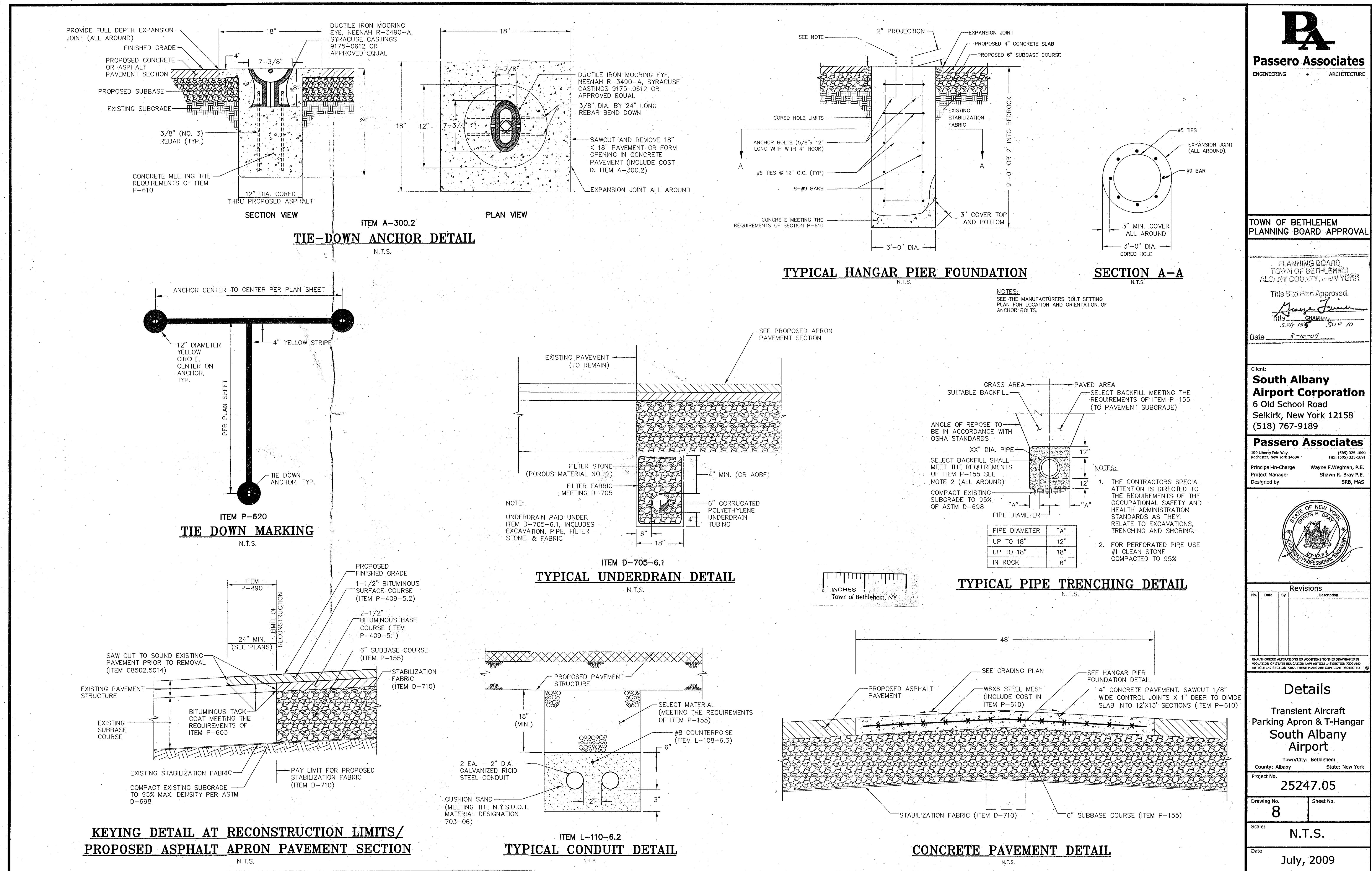
Project No. 25247.05

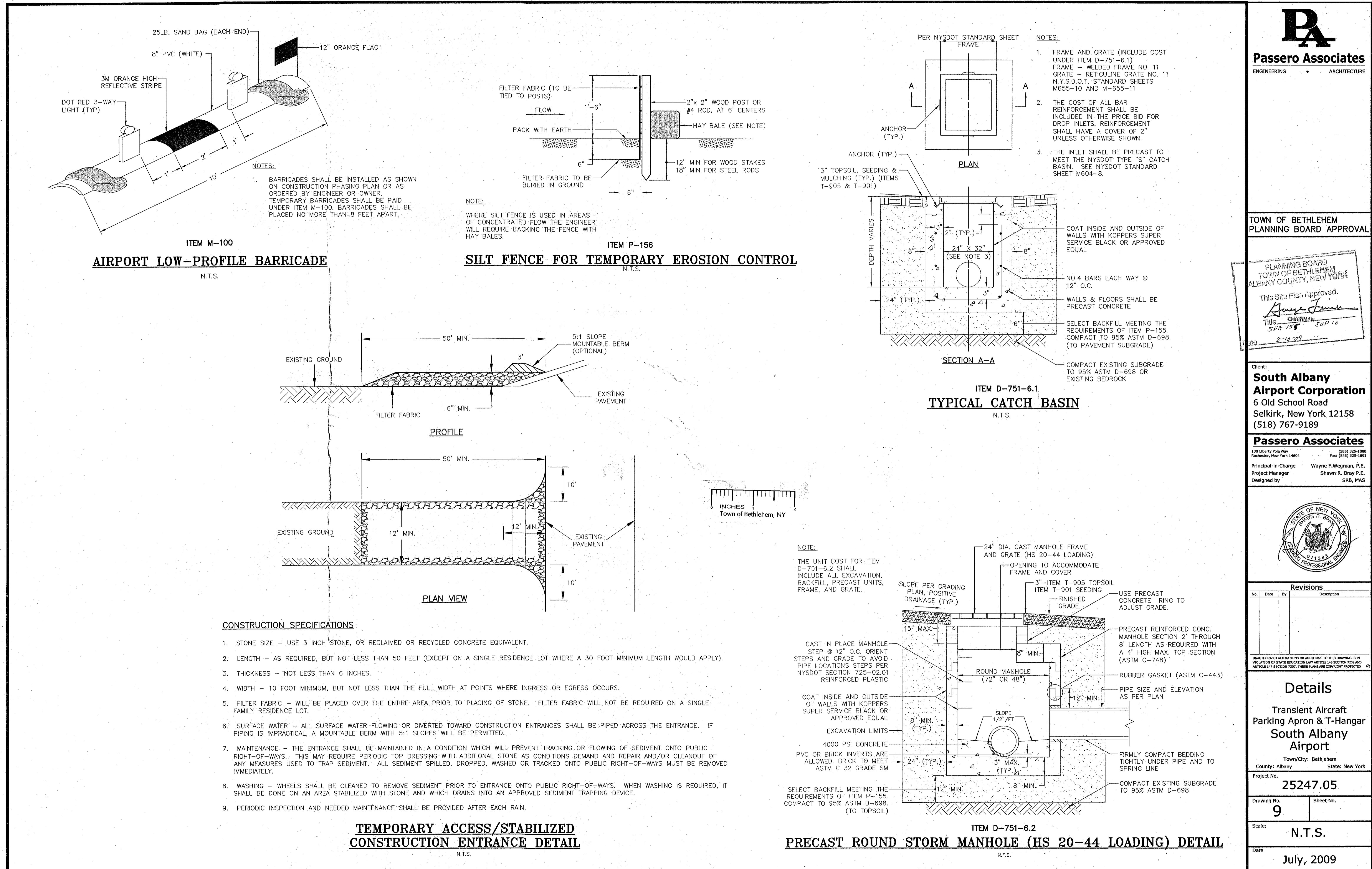
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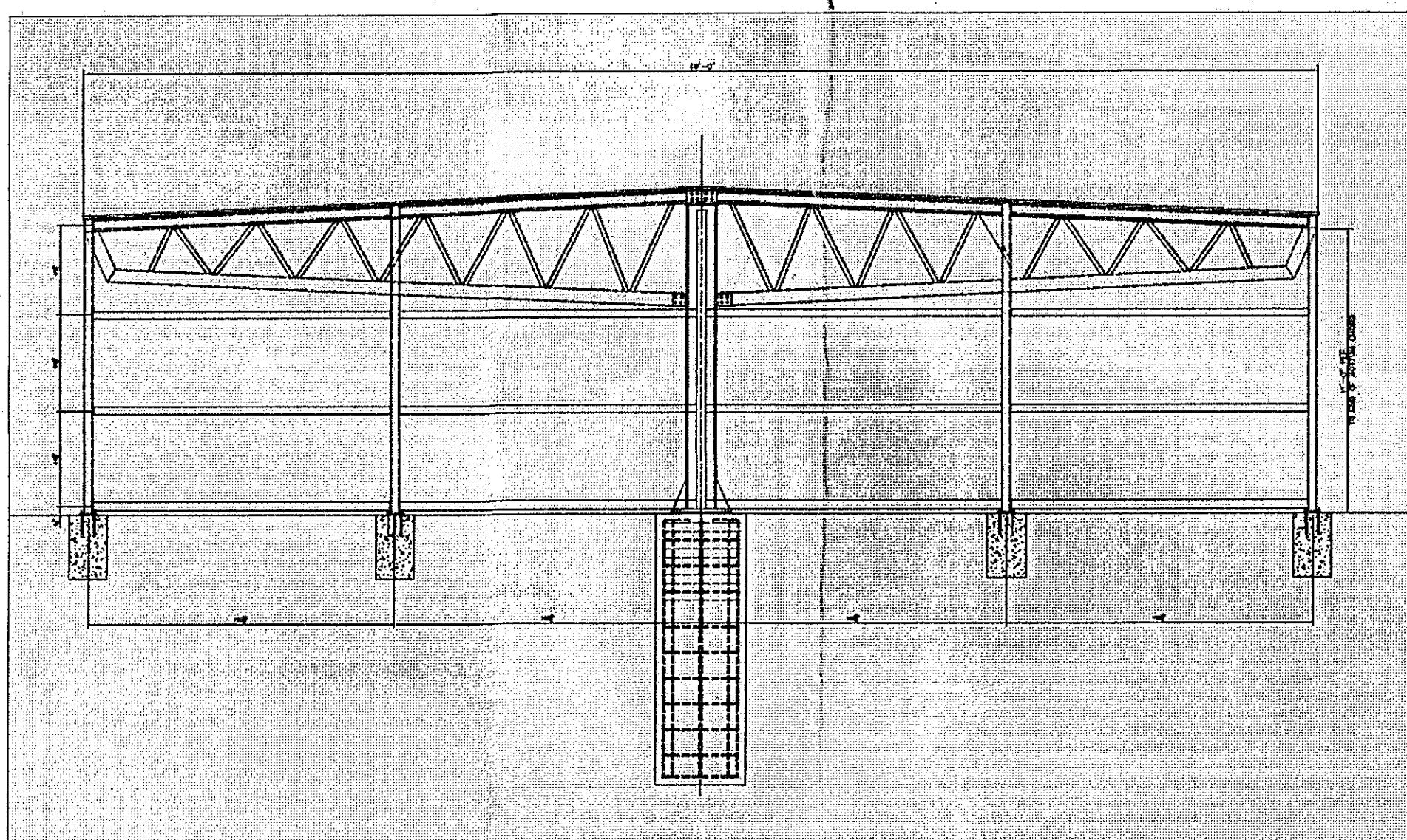
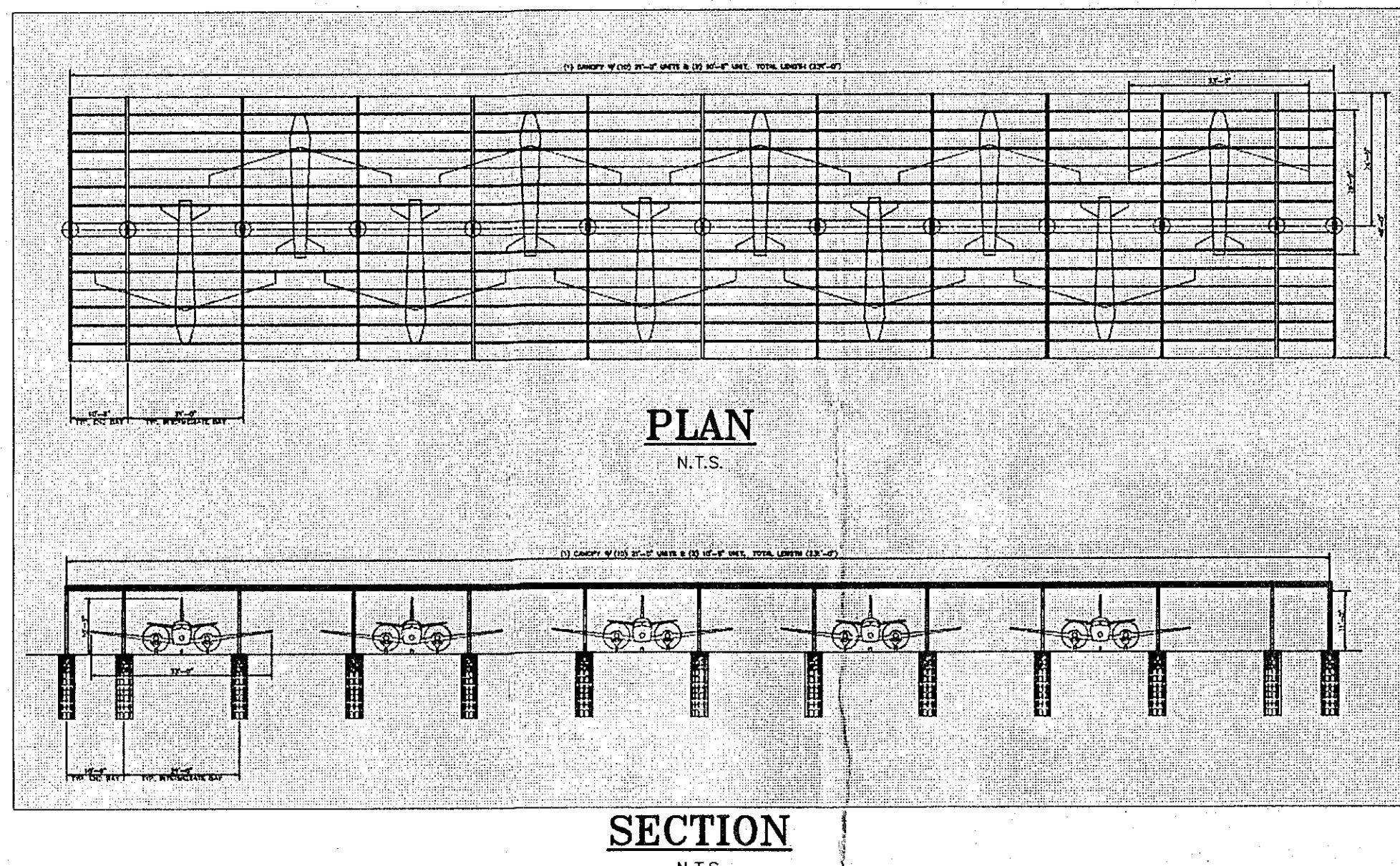
Scale: 1" = 20'

Date July, 2009

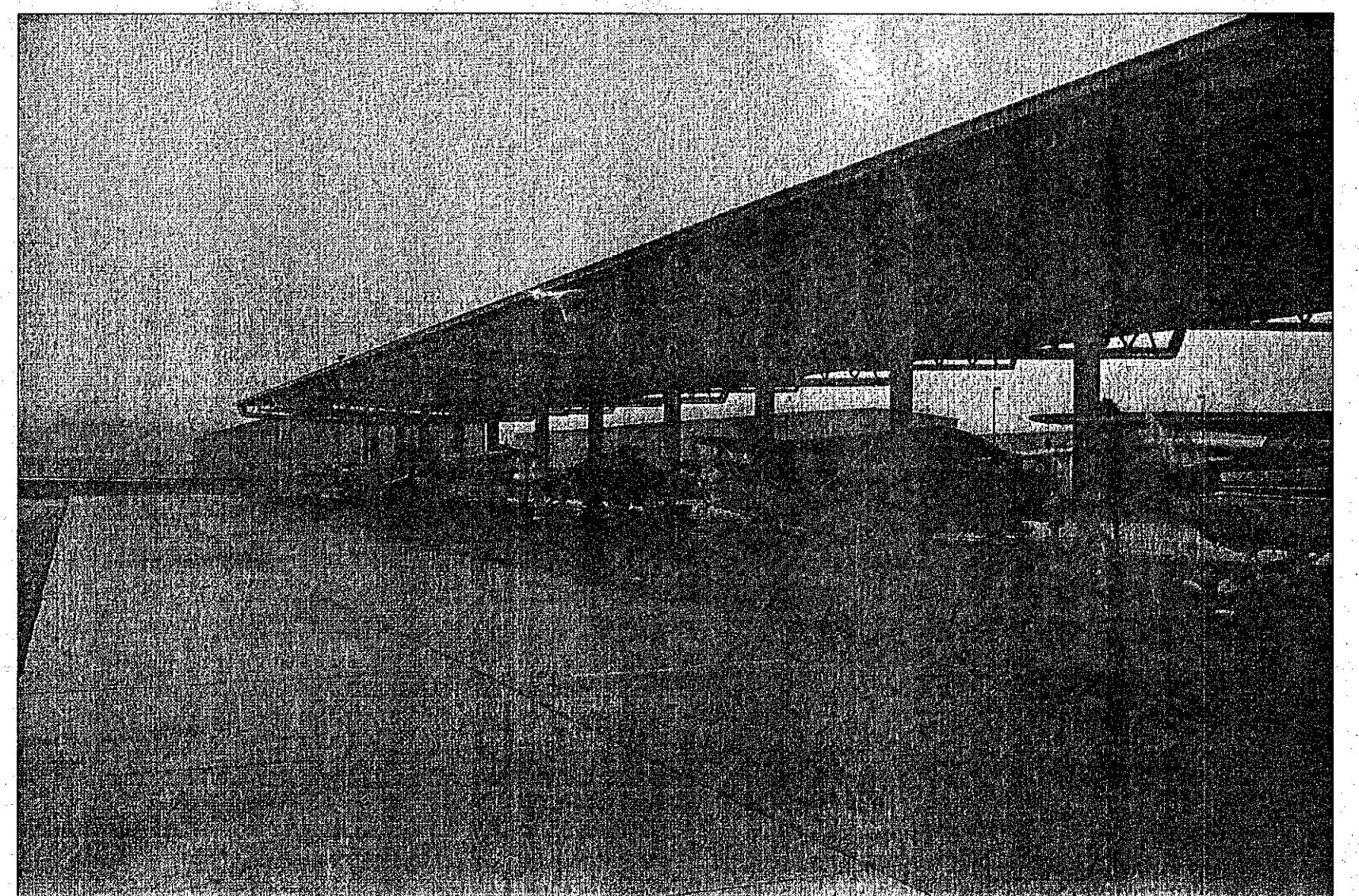




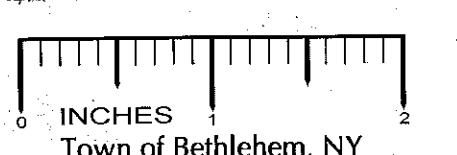




PHOTOGRAPH #1 – EXAMPLE OF SIMILAR STRUCTURE



PHOTOGRAPH #2 – EXAMPLE OF SIMILAR STRUCTURE



SPECIFICATIONS:

ITEM S-131 OPEN HANGAR BUILDING

I. Scope of Work

A. This Contract shall include all labor, equipment, and materials required to manufacture and deliver one prefabricated open nested steel T-Hangar building. The bidder shall deliver all building materials to South Albany Airport, 6 Old School Road, Selkirk, New York 12158 at a location approved by the Owner.

The minimum building and individual unit dimensions shall be as follows:

48'0" wide building
40'0" clear clear width (for 10 interior bays)
110' clear tall height
21'0" clear tall width
26'0" clear depth/unit
231'0" Approximate Overall Building Length
 $\frac{1}{2} : 12$ Roof Slope

B. The building shall include the following standard features for the Base Bid:

1. Standard color choice for roof panels *See note below
2. Bird proofing of all trusses
3. No gutters or downspouts

C. Installation of an interior roof liner is also included in the bid alternates. The liner shall be suitable to prevent roof condensation from falling on stored aircraft.

D. The nested T-Hangar will be erected on pier foundations, and a concrete floor is also proposed for the T-Hangar.

E. The building erection, pier foundations and concrete floor will be constructed by others. The bidder shall supply the required foundation reactions for the owner to design the foundation. Also, the bidder shall furnish the necessary anchor bolt layout plan, drawings and documents to obtain a local building permit and facilitate building erection.

F. The building shall be designed to meet local and New York State Building Codes with a minimum 40 PSF Roof Snow Load, a 90 MPH fastest wind speed and a 10 PSF Building Dead Load. Assume no collateral loads.

G. The T-Hangar package shall be supplied as a complete system by a manufacturer who has provided hangar building systems for a minimum of five years.

II. Material Specifications

A. Columns – Columns shall be ASTM A500 Grade B steel tubing or equal with a minimum yield stress of 46,000 lbs. with factory welded brackets and plates of ASTM A36 structural steel plate. No on-site welding shall be required. Columns will be shot blasted, e-coated and powder coated after fabrication.

B. Trusses – Trusses shall use ASTM A500 steel tubing or equal with a minimum yield stress of 46,000 PSI for the top chord, bottom chord, and all webs. All trusses will be factory welded, and purlin clips shall be welded to the sides of the truss top chord. No on-site welding shall be required. Trusses shall be designed to minimize roosting or nesting of birds. Truss members shall have a full zinc based organic coating applied to the interior surface for corrosion protection. The exterior coating shall be galvanized and/or e-coated and powder coated after fabrication.

C. Purlins – Purlins shall be ASTM A-500 steel tubing or equal. Purlin sections shall have a full zinc based organic coating applied to the interior surface for corrosion protection. The exterior coating shall be galvanized and/or e-coated and powder coated after fabrication. The finished building system shall include an approved bird proofing system to minimize animal roosting in the trusses.

D. Roof – The roof system shall be 26 gauge (UL 90 rated), 36" wide x 1-1/4" high, with major ribs at 12" on-center and two minor ribs between each major rib with a trapezoidal rib configuration. Field applied sealant is required at all side laps and end laps. The minimum roof slope shall be $\frac{1}{2} : 12$. The substrate shall be galvalume sheet steel with a minimum yield strength of 80,000 PSI. Panels shall be one piece from eave to ridge. No splicing of roof panels will be permitted. The panels shall have a finish side coated with a full coat of premium silicone polyester. The color shall be selected from the metal roof system manufacturer's standard offering. Panels shall have a minimum 20 year manufacturer's finish warranty against cracking, checking and fading.

E. Fasteners – Roof fasteners shall be self tapping/self drilling type and shall be designed to withstand specified design loads. Fasteners shall be provided with a factory applied coating in a color to match the metal panels. Neoprene washers under the heads will be supplied for all roof fasteners. Fasteners shall be located and spaced in a true vertical and horizontal alignment and in a pattern recommended by panel manufacturer. Proper torque settings shall be applied to obtain controlled uniform compression for a positive seal without rupturing the neoprene washer.

III. Warranty

The building manufacturer shall provide a one (1) year warranty on all materials and workmanship from the date of substantial completion.

*Note: Hangar structure to be white or off-white and match existing buildings adjacent to new building.

PA
Passero Associates
ENGINEERING • ARCHITECTURE

TOWN OF BETHLEHEM
PLANNING BOARD APPROVAL

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
George James
Title: CHAIRMAN
S-131-195
Date: 8-10-09

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Designed by SRB, MAS



Revisions
No. Date By Description

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Building Details
Transient Aircraft
Parking Apron & T-Hangar
South Albany
Airport

Town/City: Bethlehem
County: Albany State: New York

Project No. 25247.05

Drawing No. 10 Sheet No.

Scale: N.T.S.

Date July, 2009