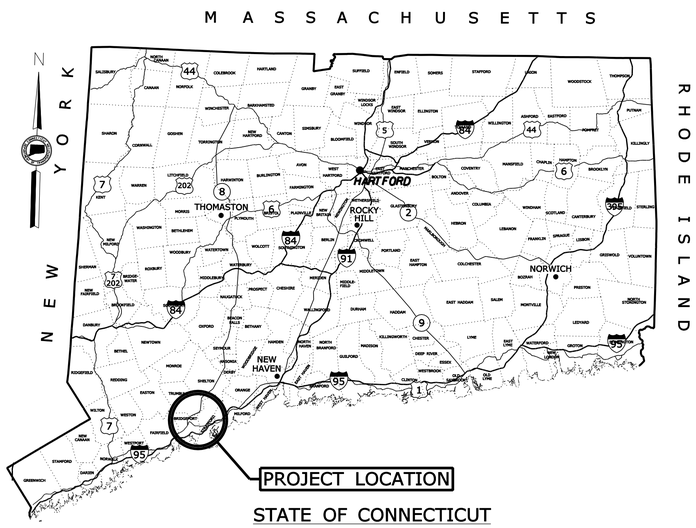
# CONNECTICUT DEPARTMENT OF TRANSPORTATION

*Plans For*

## RUNWAY SAFETY AREA PROJECT
## IGOR I. SIKORSKY MEMORIAL AIRPORT
## AIP 3-09-0002-28

*Town of*

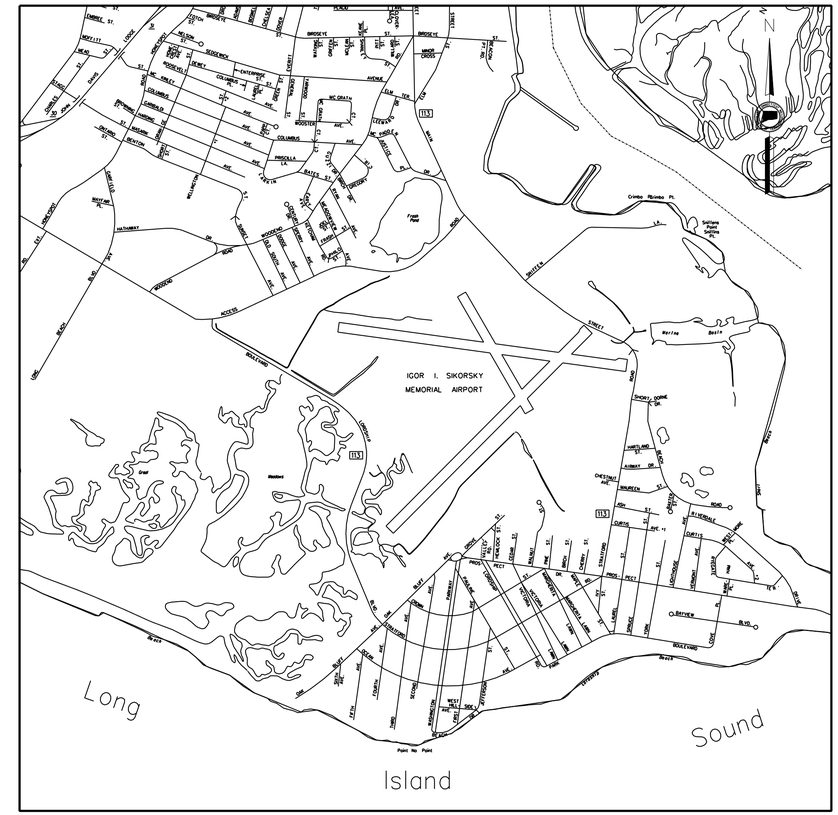
## STRATFORD




STATE OF CONNECTICUT

| ROAD | MAINTENANCE RESPONSIBILITY | LENGTH |
|---|---|---|
| ROUTE 113 | STATE | 2,150 FEET |

| F.A.P. # | MAINTENANCE RESPONSIBILITY | PROJECT # |
|---|---|---|
| ####(###) | STATE | ####-#### |




LOCATION PLAN
NOT TO SCALE

### GENERAL NOTES:

1. FEDERAL AID PROJECT NO.
2. F.H.W.A. REGION NO. 1
3. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated January 2013; and Special Provisions
4. BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983
5. VERTICAL DATUM BASED ON NGVD OF 1929

### DISCLAIMER

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### LIST OF VOLUMES

| VOLUME NO. | VOLUME TITLE | *VOLUME SHEET COUNT |
|---|---|---|
| 01 | GENERAL PLANS | # |
| 02 | HIGHWAY | # |
| 03 | RUNWAY REHABILITATION | # |
| 04 | EMAS | # |
| 05 | UTILITIES | # |
| 06 | SOIL MANAGEMENT | # |
| 07 | MITIGATION PLANS | # |
| 08 | RAYMARK WASTE DISPOSAL PLANS | # |
| 09 | CONNDOT STANDARD SHEETS | # |

*THE INITIAL VOLUME SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS

### LIST OF DRAWINGS
### VOLUME 01 - GENERAL

| DRAWING TITLE | DRAWING NO. |
|---|---|
| TITLE SHEET | TSH-1.01 |
| LIST OF REVISIONS | REV-1.01 |
| GENERAL PROJECT LAYOUT | GPL-1.01 |
| DETAILED ESTIMATE SHEETS | EST-1.01 THRU EST-1.04 |

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Grid Arrow
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Granite Curb
Guide Rail
Concrete Median Barrier
Bit. Walk
Conc. Sidewalk
Railroad Tracks
Limit Of Marsh
Stone Wall
Ledge Outcrop
Inland Wetland Limits
STATE LINE
Power Line
Swamp
Building
Transmission Tower
Chain Link Fence
Rustic Fence
Pipe Fence
Board Fence
Water Edge
Stream
Ditch
TOWN LINE
Riprap
Hedge Row
Tree Line
Shrub
Evergreen Tree
Deciduous Tree
Retaining Wall
Highway Line
Street Line
Property Line
Lot Line
Easement Line

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

SUBMITTED BY: TRANSPORTATION PRINCIPAL ENGINEER -

APPROVAL RECOMMENDED BY: MANAGER OF -

APPROVED BY: TRANSPORTATION ENGINEERING ADMINISTRATOR - JAMES H. NORMAN P.E.

FINAL PLANS FOR REVIEW #2
FOR REVIEW ONLY NOT FOR CONSTRUCTION

*Plans For*
RUNWAY SAFETY AREA PROJECT
IGOR. I. SIKORSKY MEMORIAL AIRPORT

*Town of*
STRATFORD

STATE PROJECT NO.
15-336

DRAWING NO.
TSH-1.01

SHEET NO.
01.001

| REV. No. | SHEET No. | DATE dd/mm/yy | NEW | REV. | DEL. | DESCRIPTION | BY | REV. No. | SHEET No. | DATE mm/dd/yy | NEW | REV. | DEL. | DESCRIPTION | BY | REV. No. | SHEET No. | DATE mm/dd/yy | NEW | REV. | DEL. | DESCRIPTION | BY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

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Plotted Date: 10/7/2011

DESIGNER/DRAFTER:

CHECKED BY:

SCALE AS NOTED

**STATE OF CONNECTICUT**
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\New_Revision_Sheet.dgn

SIGNATURE BLOCK:

PROJECT TITLE:

RUNWAY SAFETY AREA PROJECT
IGOR I. SIKORSKY MEMORIAL AIRPORT

TOWN: STRATFORD

DRAWING TITLE:

**LIST OF REVISIONS**

PROJECT NO. 15-336

DRAWING NO. REV-01

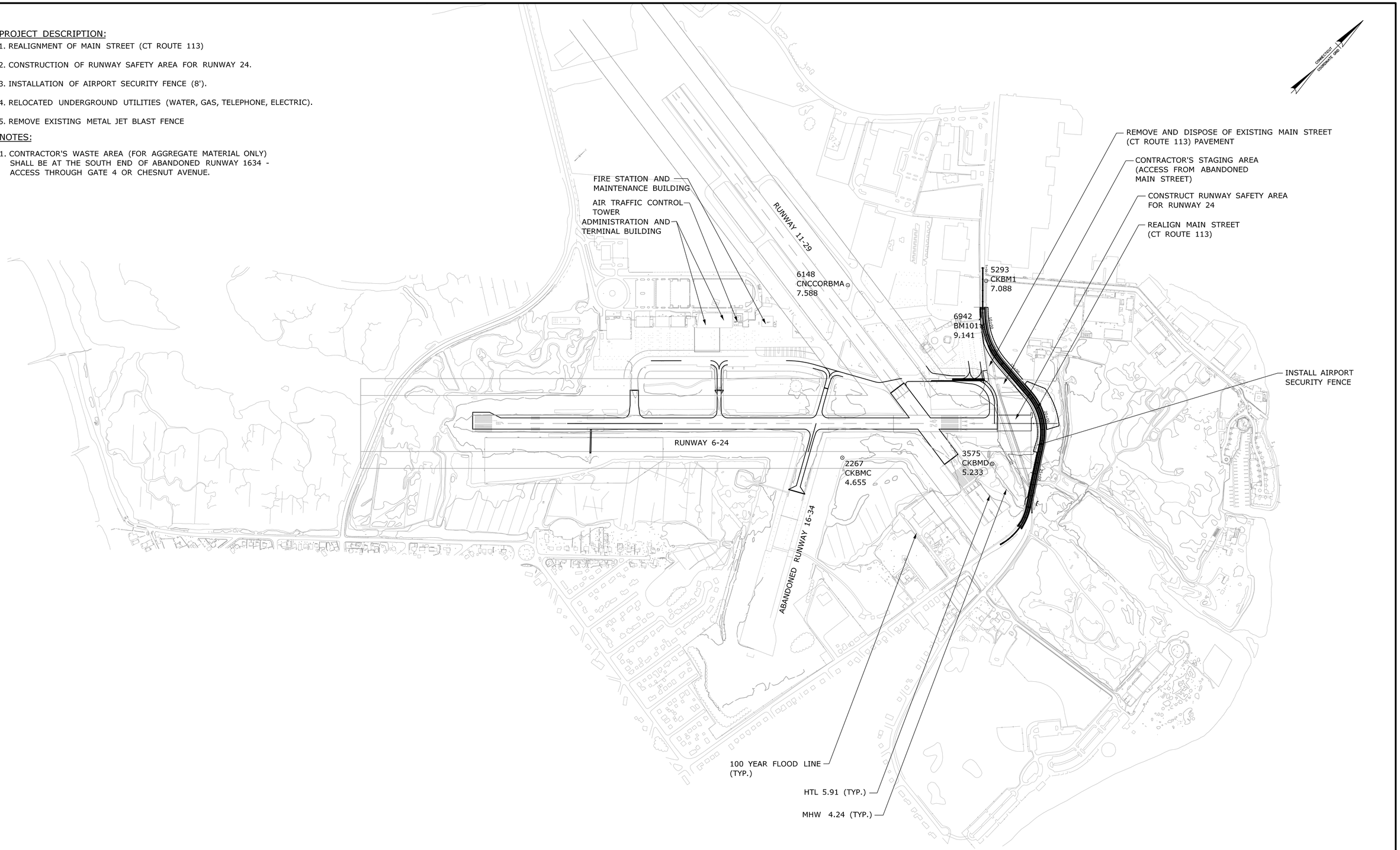
SHEET NO. 01.002

PROJECT DESCRIPTION:

1. REALIGNMENT OF MAIN STREET (CT ROUTE 113)
2. CONSTRUCTION OF RUNWAY SAFETY AREA FOR RUNWAY 24.
3. INSTALLATION OF AIRPORT SECURITY FENCE (8').
4. RELOCATED UNDERGROUND UTILITIES (WATER, GAS, TELEPHONE, ELECTRIC).
5. REMOVE EXISTING METAL JET BLAST FENCE

NOTES:

1. CONTRACTOR'S WASTE AREA (FOR AGGREGATE MATERIAL ONLY) SHALL BE AT THE SOUTH END OF ABANDONED RUNWAY 1634 - ACCESS THROUGH GATE 4 OR CHESNUT AVENUE.




| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

Plotted: 2/11/2013

DESIGNER/DRAFTER: S. HARLEY

CHECKED BY: S. MITCHELL

SCALE IN FEET 0 400 800

SCALE 1"=400'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_015-336_GPL-01.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: RUNWAY SAFETY AREA PROJECT
IGOR. I. SIKORSKY MEMORIAL AIRPORT

TOWN: STRATFORD

DRAWING TITLE: GENERAL PROJECT LAYOUT

PROJECT NO. 15-336

DRAWING NO. GPL-1.01

SHEET NO. 01.003

Border Version: 10/19/07

## ROADWAY ITEMS

| ITEM NUMBER | 0201001A | 0202000 | 0202100 | 0202200 | 0202254A | 0202451 | 0202502 | 0202522 | 0202529 | 0205001 | 0205003 | 0207003 | 0209001 | 0210306 | 0212000 | 0216011 | 0219001 | 0406170 | 0406172 | 0406236 | 0406267A | 0506001A | 0507001 | 0507153 | 0507222 | 0507598 | 0507626A | 0507654A | 0601000A | 0651001 | 0651051A | 0651173A | 0651XXXA | 0651055 | 0651234 | 0651237 | 0651251A | 0651XXXA | 0651656 | 0651658 | 0703029A | 0714050 | 0728032 | 0755009 | 0811001 | 0822001 | 0910170 | 0911923 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | CLEARING AND GRUBBING | EARTH EXCAVATION | ROCK EXCAVATION | CHANNEL EXCAVATION-EARTH | EXCAVATION FOR UTILITY REMOVAL | TEST PIT EXCAVATION | REMOVAL OF CONCRETE PAVEMENT | REMOVAL OF BITUMINOUS TYPE CONCRETE | CUT BITUMINOUS CONCRETE PAVEMENT | TRENCH EXCAVATION 0-4' | TRENCH EXCAVATION 0-10' | BORROW | FORMATION OF SUBGRADE | TURBIDITY CONTROL CURTAINS | SUBBASE | FLOWABLE FILL | SEDIMENTATION CONTROL SYSTEM | HMA S1 | HMA S0.375 | MATERIAL FOR TACK COAT | MILLING OF HMA (0'-4") | CONCRETE FOR STEPS AND COPINGS | TYPE "C" CATCH BASIN | POND OUTLET STRUCTURE | TYPE "C-1" CATCH BASIN DOUBLE GRATE TYPE II | TRASH RACK | SPECIAL MANHOLE | SHALLOW MANHOLE | CLASS "A" CONCRETE | BEDDING MATERIAL | 12" R.C. PIPE CLASS V | 19" X 30" R.C. PIPE ELLIPTICAL CLASS V | 22" X 34" R.C. PIPE ELLIPTICAL CLASS V | 22" X 36" RCP ARCH | FLEX VALVE BACKFLOW PREVENTER | 36" CORRUGATED ALUMINUM PIPE (SMOOTH INTERIOR) | 15" R.C. PIPE CLASS V | 12" HIGH DENSITY POLYETHYLENE PIPE-PERFORATED (SMOOTH INTERIOR) | 12" CORRUGATED PE PIPE (SMOOTH INTERIOR) | 18" CORRUGATED PE PIPE (SMOOTH INTERIOR) | ROUNDED STONE RIPRAP | TEMPORARY EARTH RETAINING SYSTEM | NO. 3 CRUSHED STONE | GEOTEXTILE | CONCRETE CURBING | TEMPORARY PRECAST CONCRETE BARRIER CURB | METAL BEAM RAIL (TYPE R-B 350) | R-B END ANCHORAGE TYPE I |
| UNIT | L.S. | C.Y. | C.Y. | C.Y. | C.Y. | C.Y. | S.Y. | S.Y. | L.F. | C.Y. | C.Y. | C.Y. | S.Y. | L.F. | C.Y. | C.Y. | L.F. | TON | TON | GAL. | S.Y. | C.Y. | EA. | EA. | EA. | EA. | EA. | EA. | C.Y. | C.Y. | L.F. | L.F. | L.F. | L.F. | EA. | L.F. | L.F. | L.F. | L.F. | L.F. | C.Y. | S.F. | C.Y. | S.Y. | L.F. | L.F. | L.F. | EA. |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 1 | 25100 | 150 | 4455 | 2800 | 50 | 8122 | 18150 | 900 | 880 | 2260 | 3000 | 12130 | 52 | 2600 | 3 | 1970 | 2791 | 1755 | 1020 | 200 | 60 | 5 | 2 | 4 | 6 | 2 | 4 | 45 | 215 | 135 | 52 | 221 | 2204 | 4 | 240 | 39 | 80 | 68 | 610 | 660 | 900 | 255 | 3240 | 825 | 100 | 400 | 2 |

## ROADWAY ITEMS

| ITEM NUMBER | 0912503 | 0913000A | 0913003 | 0913021 | 0913068 | 0913XXXA | 0913XXXA | 0913911 | 0913859 | 0921001A | 0922500 | 0944001 | 0950005 | 0969030 | 0950036 | 0969050 | 0969064 | 0971001A | 0975002 | 0976002A | 0977001A | 0978002 | 0979003A | 0980001A | 0981101A | 1131002A | 1206023A | 1208928 | 1209114 | 1209124 | 1210101A | 1210102A | 1220013A | 1806200 | L-108-5.1 | L-108-5.2 | L-108-5.3 | L-108-5.4 | L-109-5.1 | L-109-5.2 | L-109-5.3 | L-115-5.1 | L-115-5.2 | L-110-5.1 | L-110-5.2 | L-125-5.1 | L-125-5.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | REMOVE METAL BEAM RAIL | REMOVAL OF CHAIN LINK FENCE | 4" PVC CHAIN LINK FENCE | 6' CHAIN LINK FENCE | TEMPORARY 6' CHAIN LINK FENCE | AIRPORT SECURITY FENCE | 12' AIRPORT SECURITY GATE | 12' CHAIN LINK DOUBLE GATE 4' HIGH | 24' CHAIN LINK SLIDING GATE 6' HIGH | CONCRETE SIDEWALK | BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL) | FURNISHING AND PLACING TOPSOIL | TURF ESTABLISHMENT | PROJECT COORDINATOR (MINIMUM BID) | EROSION CONTROL MATTING TYPE E | DOCUMENT CONTROL SPECIALIST | CONSTRUCTION FIELD OFFICE, LARGE | MAINTENANCE AND PROTECTION OF TRAFFIC | MOBILIZATION | BARRICADE WARNING LIGHTS-HIGH INTENSITY | TRAFFIC CONE | TRAFFIC DRUM | CONSTRUCTION BARRICADE TYPE III | CONSTRUCTION STAKING | OPPOSING TRAFFIC LANE DIVIDER | REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN | REMOVAL AND RELOCATION OF EXISTING SIGNS | SIGN FACE - SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING) | HOT APPLIED PAINTED PAVEMENT MARKINGS 4" YELLOW | HOT APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE | 4" WHITE EPOXY RESIN PAVEMENT MARKINGS | 4" YELLOW EPOXY RESIN PAVEMENT MARKINGS | CONSTRUCTION SIGNS-BRIGHT FLUORESCENT SHEETING | FURNISHING AND USE OF PORTABLE IMPACT ATTENUATION SYSTEM | UNDERGROUND CABLE NO. 8 AWG, 5KV, L-824, TYPE B INSTALLED IN EXIST. OR NEW CONDUIT | UNDERGROUND CABLE NO. 3 AWG, 5KV, CROSSLINK, INSTALLED IN EXISTING OR NEW CONDUIT | NO. 6 AWG BARE COUNTERPOISE WIRE INSTALLED IN TRENCH INCLUDING GROUNDING RODS AND CONNECTIONS | REMOVAL AND DISPOSAL OF EXISTING CABLES | SINGLE PHASE, 480/277VAC, 3kV, NEMA 3R ENCLOSURE, TRANSFORMER | 600V DISCONNECT SWITCH NEMA 3R, DISCONNECT SWITCH D103 | EQUIPMENT RACK WITH FOUNDATION | ELECTRICAL HANDHOLE 3'x3'x3' | REMOVE ELECTRICAL HANDHOLE | TWO INCH SCHEDULE 40 PVC CONDUIT DIRECT BURIAL IN GRASS AREA | TWO WAY 4 INCH DUCTBANK, CONCRETE ENCASED | SINGLE OBSTRUCTION LIGHT AND SUPPORT POLE | DOUBLE OBSTRUCTION LIGHT AND SUPPORT POLE |
| UNIT | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | EA. | EA. | EA. | L.F. | S.Y. | S.Y. | S.Y. | L.S. | S.Y. | L.S. | MO. | L.S. | L.S. | DAY | EA. | EA. | EA. | L.S. | EA. | DAY | L.S. | S.F. | L.F. | L.F. | L.F. | L.F. | S.F. | HR. | L.F. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | EA. | L.F. | L.F. | EA. | EA. |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 1100 | 3880 | 1240 | 820 | 125 | 2135 | 2 | 1 | 1 | 430 | 130 | 41555 | 41555 | 1 | 251 | 1 | 20 | 1 | 1 | 8000 | 50 | 100 | 7 | 1 | 20 | 84 | 1 | 80 | 200 | 200 | 4550 | 4550 | 400 | 200 | 1650 | 7000 | 720 | 1200 | 1 | 2 | 1 | 6 | 1 | 2320 | 800 | 13 | 4 |

P = FEDERAL AID PARTICIPATING
NP= FEDERAL AID NON PARTICIPATING
=FOR INTERNAL USE ONLY
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| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

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Plotted: 2/12/2013

DESIGNER/DRAFTER: S. MAHAJAN
CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_015-336_EST-01.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RUNWAY SAFETY AREA PROJECT
IGOR I. SIKORSKY MEMORIAL AIRPORT

TOWN: STRATFORD

DRAWING TITLE: DETAILED ESTIMATE - 1

PROJECT NO. 15-336
DRAWING NO. EST-1.01
SHEET NO. 01.004

## RUNWAY ITEMS

| ITEM NUMBER | 0000152A | 0000000A | 0001540A | 0000209A | 0000401A | 0000486A | 0000603A | 0000621A | 0620000A | 0000622A | 0000901A | 0000905A | 0000908A | 0001083A | 0001086A | 0100000A | 0000583A | 0100000A | 0120000A | 0120000A | 0120000A | 0120000A | 1001001A | 0150000A | 0100000A | 0100000A | 0110000A | 0110000A | 0110000A | 0110000A | 0000105A | 0000106A | 0110000A | 0110000A | 0110000A | 0000444A | 0000164A | 0110000A | 0110000A | 0110000A | 0110000A | 0110000A | 0110000A | 0120000A | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | UNCLASSIFIED EXCAVATION | EARTH EMBANKMENT | SUBBASE COURSE | CRUSHED AGGREGATE BASE COURSE | BITUMINOUS SURFACE COURSE | PAVEMENT GROOVING | BITUMINOUS TACK COAT | RUNWAY AND TAXIWAY PAINTING | TEMPORARY RUNWAY AND TAXIWAY PAINTING | REMOVAL OF PAVEMENT MARKINGS | SEEDING | TOPSOILING | MULCHING | 1/C NO. 8 -5KV CABLE IN CONDUIT | 1/C BARE NO. 6 COUNTERPOISE IN TRENCH (INCLUDING GROUND RODS AND CONNECTIONS) | NO. 1/0 AWG BARE COUNTERPOISE WIRE INSTALLED IN TRENCH INCLUDING GROUND RODS AND CONNECTIONS | REMOVAL AND DISPOSAL OF 5KV CABLES | TEMPORARY CABLES TO MAINTAIN LIGHTING | RUNWAY 6 PAPI FOUNDATION | RUNWAY 24 PAPI FOUNDATION | RUNWAY 6 REIL FOUNDATION | RUNWAY 24 REIL (COMPLETE) | TRENCHING AND BACKFILLING FOR INSTALLATION OF COUNTERPOISE CABLE) | COIR COIL | 20KW CONSTANT CURRENT REGULATOR | 10 KW CONSTANT CURRENT REGULATOR | 2" SCHEDULE 40 PVC CONDUIT, DIRECT EARTH BURIAL IN EXISTING PAVEMENT | 2" SCHEDULE 40 PVC CONDUIT, CONC. ENCASED IN EXITING PAVEMENT | 2" SCHEDULE 40 PVC CONDUIT, DIRECT EARTH BURIAL IN EXISTING GRASS | 2 WAY - 4" SCHEDULE 40 PVC DUCT BANK | 4 WAY - 4" SCHEDULE 40 PVC DUCT BANK | FOUR-WAY, 4" DUCTBANK CONCRETE ENCASED IN EXISTING PAVEMENT | FOUR-WAY, 4" DUCTBANK CONCRETE ENCASED | FOUR-WAY, 2" DUCTBANK IN GRASS AREA | TWO-WAY 2" DUCTBANK CONCRETE ENCASED IN EXISTING PAVED AREA | 2" TWO WAY DUCT BANK | 6 WAY, 4" SCHEDULE 40 PVC DUCT BANK | SIX-WAY, 4" DUCTBANK CONCRETE ENCASED IN EXISTING PAVEMENT | ELECTRICAL HANDHOLE 3'x3'x3' | ELECTRICAL HANDHOLE 4'x4'x34 | NEW L-868 SIZE B JUNCTION CAN WITH 1/2" STEEL COVER IN EXISTING GRASS | NEW L-867 SIZE B JUNCTION CAN IN EXISTING GRASS | EXISTING ELECTRICAL HANDHOLE/ MANHOLE ADJUSTED TO NEW GRADE | REMOVE EXISTING HANDHOLE/MANHOLE | L-858(L) AIRFIELD GUIDANCE SIGN | | |
| UNIT | C.Y. | C.Y. | C.Y. | C.Y. | TON | S.Y. | GAL. | S.F. | S.F. | S.F. | AC. | C.Y. | S.Y. | L.F. | L.F. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | L.F. | L.F. | EA. | EA. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | | |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 40000 | 11000 | 1300 | 36006 | 18700 | 41500 | 8100 | 118000 | 118000 | 7000 | 25.3 | 10215 | 122582 | 31100 | 18200 | 5250 | 19000 | 2000 | 1 | 1 | 1 | 1 | 16300 | 14500 | 1 | 1 | 12300 | 2000 | 4900 | 400 | 3120 | 275 | 110 | 310 | 310 | 350 | 860 | 480 | 27 | 6 | 1 | 1 | 8 | 1 | 29 | | |

## RUNWAY ITEMS

| ITEM NUMBER | 0120000A | 0040020A | 0120000A | 0120000A | 0120000A | 0120000A | 0000619A | 0000146A | 0000134A | 0120000A | 0120000A | 0120000A | 0120000A | 0120000A | 0120000A | 0000605A | 0406267A | 0603169A | 0939001A | 0970000A | 0150000A | 0150000A | 0507002A | 0507900A | 0751902A | 0507215A | 1304123A | 1301948A | 0210100A | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | L-858(L) RUNWAY DISTANCE REMAINING SIGN | TAXIWAY EDGE LIGHTS (L-861T) | L-861T(L) ELEVATED TAXIWAY EDGE LIGHT | L-862 ELEVATED RUNWAY EDGE LIGHT | L-850C IN-PAVEMENT RUNWAY EDGE LIGHT | L-862E ELEVATED RUNWAY THRESHOLD LIGHT | TAXIWAY REFLECTIVE MARKER L-853 | REMOVE GUIDANCE SIGN FOUNDATION | REMOVE GUIDANCE SIGN | REMOVE ELEVATED LIGHT AND BASE | REMOVE IN-PAVEMENT LIGHT AND BASE AND FILL VOID | REMOVE LIGHT BASE | REMOVE ELEVATED RETRO-REFLECTIVE EDGE MARKER | SUPPLEMENTAL COMPONENTS | RUNWAY 6 REIL | JOINT SEALING FILLER | MILLING OF HMA (0 TO 4 INCH) | PROGRESS PHOTOGRAPHS (INCLUDING AERIAL PHOTO) | SWEEPING FOR DUST CONTROL | TEMPORARY CONSTRUCTION ITEMS | REMOVAL AND PLUGGING OF EXISTING DRAINAGE PIPE (SMALLER THAN 12") | REMOVAL AND PLUGGING OF EXISTING DRAINAGE PIPE (12" AND LARGER) | ABANDON CATCH BASIN | SPECIAL TRENCH DRAIN | CONCRETE HEADWALL AND APRON | SPECIAL TYPE "C-L" CATCH BASIN | COMPACTED GRAVEL FILL (WATERMAIN) | 16" STEEL PIPE SLEEVE | ANTI-TRACKING PAD | | | | | | | | | | | | | | | | | | | | | | |
| UNIT | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | L.S. | EA. | L.F. | S.Y. | EA. | HR. | EA. | L.F. | L.F. | EA. | L.F. | EA. | EA. | C.Y. | L.F. | S.Y. | | | | | | | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 3 | 5 | 137 | 38 | 8 | 24 | 8 | 40 | 39 | 148 | 7 | 3 | 11 | 1 | 1 | 1200 | 4000 | 4 | 240 | 1 | 10500 | 1425 | 54 | 111 | 1 | 1 | 60 | 200 | 300 | | | | | | | | | | | | | | | | | | | |

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Plotted: 2/12/2013

DESIGNER/DRAFTER: F. WALSH

CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_015-336_EST-02.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: RUNWAY SAFETY AREA PROJECT
IGOR I. SIKORSKY MEMORIAL AIRPORT

TOWN: STRATFORD

DRAWING TITLE: DETAILED ESTIMATE - 2

PROJECT NO. 15-336

DRAWING NO. EST-1.02

SHEET NO. 01.005

## EMAS ITEMS

| ITEM NUMBER | 0000152A | 0000209A | 0000300A | 0000401A | 0000486A | 0000538A | 0000603A | 0000605A | 0000621A | 0000901A | 0000905A | 0000908A | 0001083A | 0001086A | 0001540A | 0210100A | 0406257A | 0603169A | 0939001A | 1001001A | 010XXXXA | 010XXXXA | 010XXXXA | 011XXXXA | 011XXXXA | 011XXXXA | 011XXXXA | 011XXXXA | 012XXXXA | 012XXXXA | 012XXXXA | 015XXXXA | 061XXXXA | 062XXXXA | 097XXXXA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | UNCLASSIFIED EXCAVATION | CRUSHED AGGREGATE BASE COURSE | ENGINEERED MATERIAL ARRESTING SYSTEM (EMAS) | BITUMINOUS SURFACE COURSE | PAVEMENT GROOVING | REMOVAL AND DISPOSAL OF EXISTING 5KV CABLES | BITUMINOUS TACK COAT | JOINT SEALER FILLER | RUNWAY AND TAXIWAY PAINTING | SEEDING | TOPSOILING | MULCHING | 1/C NO. 8 - 5KV CABLE IN CONDUIT | 1/C BARE NO. 6 COUNTERPOISE IN CONDUIT (INCLUDE GROUND RODS AND CONNECTIONS) | SUBBASE COURSE | ANTI-TRACKING PAD | MILLING OF HMA (0 TO 4 IN) | PROGRESS PHOTOGRAPHS (INCLUDING AERIAL PHOTO) | SWEEPING FOR DUST CONTROL | TRENCHING AND BACKFILLING (FOR INSTALLATION OF COUNTERPOISE CABLE) | NO. 1/0 AWG BARE COUNTERPOISE WIRE INSTALLED IN TRENCH INCLUDING GROUND RODS AND CONNECTIONS | TEMPORARY CABLES TO MAINTAIN LIGHTING | RUNWAY 6 REIL POWER AND CONTROL CABLE | 2 INCH SCHEDULE 40 PVC CONDUIT, DIRECT BURIAL IN EXISTING PAVEMENT | 2 INCH SCHEDULE 40 PVC CONDUIT, CONCRETE ENCASED IN EXISTING PAVEMENT | 2 INCH SCHEDULE 40 PVC CONDUIT, DIRECT EARTH BURIAL IN EXISTING GRASS AREA | NEW L-867 SIZE B LIGHT BASE AND ½" STEEL COVER IN PAVED AREA | NEW L-867 SIZE B LIGHT BASE AND ½" STEEL COVER IN GRASS AREA | RUNWAY THRESHOLD LIGHT ON NEW BASE IN GRASS AREA | RUNWAY THRESHOLD LIGHT ON NEW BASE IN PAVED AREA | REMOVE LIGHT BASE | COIR COIL | STRUCTURAL PORTLAND CEMENT CONCRETE | TEMPORARY RUNWAY AND TAXIWAY PAINTING | TEMPORARY CONSTRUCTION ITEMS |
| UNIT | C.Y. | C.Y. | L.S. | TON | S.Y. | L.F. | GAL. | L.F. | S.F. | AC | C.Y. | S.Y. | L.F. | L.F. | C.Y. | S.Y. | S.Y. | EA. | HR. | L.F. | L.F. | L.F. | L.S. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | EA. | L.F. | C.Y. | S.F. | L.S. |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 5500 | 1800 | 1 | 2100 | 450 | 1560 | 1500 | 310 | 20000 | 0.6 | 239 | 2869 | 540 | 290 | 1500 | 150 | 4600 | 4 | 90 | 30 | 320 | 500 | 1 | 200 | 190 | 190 | 5 | 3 | 3 | 5 | 2 | 1300 | 38 | 18000 | 1 |

## MITIGATION ITEMS

| ITEM NUMBER | 0000152 | 0000156 | 0000209A | 0000309 | 0000401A | 0000602A | 0000603A | 0000901 | 0000905A | 0101135 | 0201001A | 0202522 | 0205001 | 0205001 | 0208602 | 0210304A | 0210306 | 0212000 | 0213001 | 0403873 | 0406236 | 0601000A | 0651001 | 0651059 | 0913850A | 0948011A | 0948013 | 0948014A | 0949999A | 0950005A | 0950011A | 0950012A | 0950201A | 0950202A | 1301083 | 1301514 | 1301948 | 1302211 | 1307001 | 1309301 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | UNCLASSIFIED EXCAVATION | EROSION CONTROL | CRUSHED AGGREGATE BASE COURSE | FURNISH AND INSTALL AVIAN NESTING BOX | BITUMINOUS PAVEMENT | BITUMINOUS PRIME COAT | BITUMINOUS TACK COAT | SEEDING | TOPSOILING | DEBRIS REMOVAL | CLEARING AND GRUBBING | REMOVAL OF BITUMINOUS TYPE PAVEMENT | TRENCH EXCAVATION 0-10' | TRENCH EXCAVATION 0-4' | SAND | SAND BAGS | TURBIDITY CONTROL CURTAINS | SUBBASE | GRAVEL | FULL DEPTH PAVEMENT RECLAMATION | MATERIAL FOR TACK COAT | CLASS "A" CONCRETE | BEDDING MATERIAL | 36" R.C. PIPE | HIGH VISIBILITY SAFETY FENCE | WHAMM | TIDAL WETLAND PLANTING | UPLAND PLANTING | SPRANGLE TOP TRANSPLANTING | TURF ESTABLISHMENT SPRANGLE TOP SEEDING | UPLAND SEEDING | WETLAND SEEDING | SCARIFING AND SEEDING | SHORELINE GRASS ESTABLISHMENT | 10" DUCTILE IRON PIPE (WATER) | 10" 45 DEGREE BENDS | 16" STEEL SLEEVE | 10"x10" TAPPING SLEEVE & VALVE | BEDDING MATERIAL | DISINFECTION OF WATERMAIN |
| UNIT | C.Y. | L.F. | C.Y. | EA. | TON | GAL. | GAL. | AC. | C.Y. | L.S. | AC. | S.Y. | C.Y. | C.Y. | C.Y. | C.Y. | L.F. | C.Y. | C.Y. | S.Y. | GAL. | C.Y. | C.Y. | L.F. | L.F. | AC. | L.S. | L.S. | S.Y. | S.Y. | S.Y. | S.Y. | S.Y. | S.Y. | L.F. | EA. | L.F. | EA. | C.Y. | EA. |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 1396 | 5812 | 6 | 1 | 889 | 198 | 793 | 1 | 294 | 2 | 2 | 6611 | 1442 | 200 | 11 | 100 | 110 | 185 | 46 | 940 | 1020 | 45 | 480 | 1100 | 1900 | 7 | 1 | 1 | 1305 | 940 | 7744 | 7306 | 3386 | - | 200 | 4 | 50 | 2 | 50 | 1 |

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| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

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Plotted: 2/12/2013

DESIGNER/DRAFTER: F. WALSH
CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_015-336_EST-03.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RUNWAY SAFETY AREA PROJECT
IGOR I. SIKORSKY MEMORIAL AIRPORT

TOWN: STRATFORD

DRAWING TITLE: DETAILED ESTIMATE - 3

PROJECT NO. 15-336
DRAWING NO. EST-1.03
SHEET NO. 01.006

## UTILITIES

| ITEM NUMBER | 0205003 | 0205004 | 0208602 | 1301082 | 1301181 | 1301307 | 1301324 | 1301479 | 1302122 | 1320204 | 1302206 | 1303202 | XXXXXX | 1401XXA | 15001XXA | 15001XXA | 15001XXA | 15002XXA | 15002XXA | 15002XXA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | TRENCH EXCAVATION 0'-10' DEEP | ROCK IN TRENCH EXCAVATION 0'-10' DEEP | SAND | 8" DUCTILE IRON PIPE (WATER MAIN) | 6" DUCTILE IRON PIPE (WATER MAIN) | 2" COPPER PIPE (TYPE K) | RECONNECT COPPER SERVICE (WATER MAIN) | 8"x8" DUCTILE IRON TEE (WATER MAIN) | 8" INSERTION VALVE (WATER MAIN) | 6"x6" TAPPING SLEEVE & VALVE | 8"x8" TAPPING SLEEVE & VALVE | INSTALL FIRE HYDRANT | METER PIT | INSTALL 14" SANITARY FORCE MAIN IN TRENCH | INSTALL CONDUIT IN TRENCH - U.I. | INSTALL CONDUIT IN TRENCH - AT&T | INSTALL CONDUIT IN TRENCH - CABLEVISION | INSTALL MANHOLE - U.I. | INSTALL MANHOLE - AT&T | INSTALL MANHOLE - CABLEVISION |
| UNIT | C.Y. | C.Y. | C.Y. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | L.F. | L.F. | L.F. | L.F. | EA. | EA. | EA. |
| UI | | | | | | | | | | | | | | | 1903 | | | 4 | | |
| AT&T | | | | | | | | | | | | | | | | 2001 | | | 5 | |
| CABLE VISION | | | | | | | | | | | | | | | | | 1928 | | | 4 |
| WATER MAIN | 2867 | 10 | 478 | 2150 | 2150 | 1000 | 9 | 1 | 1 | 2 | 2 | 1 | 1 | | | | | | | |
| SANITARY FORCE MAIN | | | | | | | | | | | | | | 2040 | | | | | | |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 2867 | 10 | 478 | 2150 | 2150 | 1000 | 9 | 1 | 1 | 2 | 2 | 1 | 1 | 2040 | 1903 | 2001 | 1928 | 4 | 5 | 4 |

## SOIL MANAGEMENT

| ITEM NUMBER | 0101000A | 0101117A | 0101XXA | 0101XXA | 0202315A | 0202318A | 0204213A | 0202640A |
|---|---|---|---|---|---|---|---|---|
| ITEM | ENVIRONMENTAL HEALTH AND SAFETY (HASP & MOB) | CONTROLLED MATERIALS CHARACTERIZATION & HANDLING | CONSTRUCTION AND DISMANTLING OF A WASTE STOCKPILE AREA NO. 1 | CONSTRUCTION AND DISMANTLING OF A WASTE STOCKPILE AREA NO. 2 | TRANSPORTATION & DISPOSAL OF CONTROLLED MATERIALS | MANAGEMENT OF REUSABLE CONTROLLED MATERIAL | TREATMENT & HANDLING CONTAMINATED GROUNDWATER | 2" MONITORING WELL ABANDONMENT |
| UNIT | L.S. | TON | L.S. | L.S. | TON | C.Y. | L.S. | L.S. |
| SUBTOTAL | | | | | | | | |
| UNASSIGNED | | | | | | | | |
| TOTAL | 1 | 59430 | 1 | 1 | 59430 | - | 1 | 1 |

## RAYMARK WASTE DISPOSAL

| ITEM NUMBER | 0101006A | 0101109A | 0101126A | 0101130 | 0177100A | 0202315A | 0204213A | 10010XXA | 0213XXXA | 0702XXXA | 070XXXXA | 0944XXXA | 070XXXXA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | ENVIRONMENTAL HEALTH AND SAFETY MOB AND SUPPORT DOCUMENTS | HAZARDOUS MATERIAL EXCAVATION | DISPOSAL OF HAZARDOUS WASTE (TSCA) | ENVIRONMENTAL WORK-SOLIDIFICATION | INSTALLATION/REMOVAL OF TEMPORARY HAUL ROADS | DISPOSAL OF CONTROLLED MATERIALS (STABLIZED RMW) | HANDLING, TREATMENT & DISPOSAL OF CONTAMINATED GROUND-WATER (25000 GAL) | SPECIAL BACKFILL | CONSTRUCTION/ BREAKDOWN OF 100'x100' STOCKPILING PAD AT GRADE | INSTALLATION OF SHEETPILE | EROSION AND SEDIMENT CONTROLS | SPECIAL TOPSOIL | CONFIRMATION TESTING, TIER III DATA VALIDATION | SOILS TESTING - DISPOSAL CHARACTERIZATION |
| UNIT | L.S. | TON | TON | TON | L.S. | TON | L.S. | C.Y. | L.S. | S.F. | L.S. | S.Y. | L.S. | EA. |
| SUBTOTAL | | | | | | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | |
| TOTAL | 1 | 18000 | 216 | 18000 | 1 | 19000 | 1 | 13500 | 1 | 10000 | 1 | 5812 | 1 | 40 |

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Plotted: 2/12/2013

DESIGNER/DRAFTER: S. MAHAJAN
CHECKED BY: S. MITCHELL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW..MSH..015-336..EST-04.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
RUNWAY SAFETY AREA PROJECT
IGOR I. SIKORSKY MEMORIAL AIRPORT

TOWN: STRATFORD

DRAWING TITLE: DETAILED ESTIMATE - 4

PROJECT NO. 15-336
DRAWING NO. EST-1.04
SHEET NO. 01.007