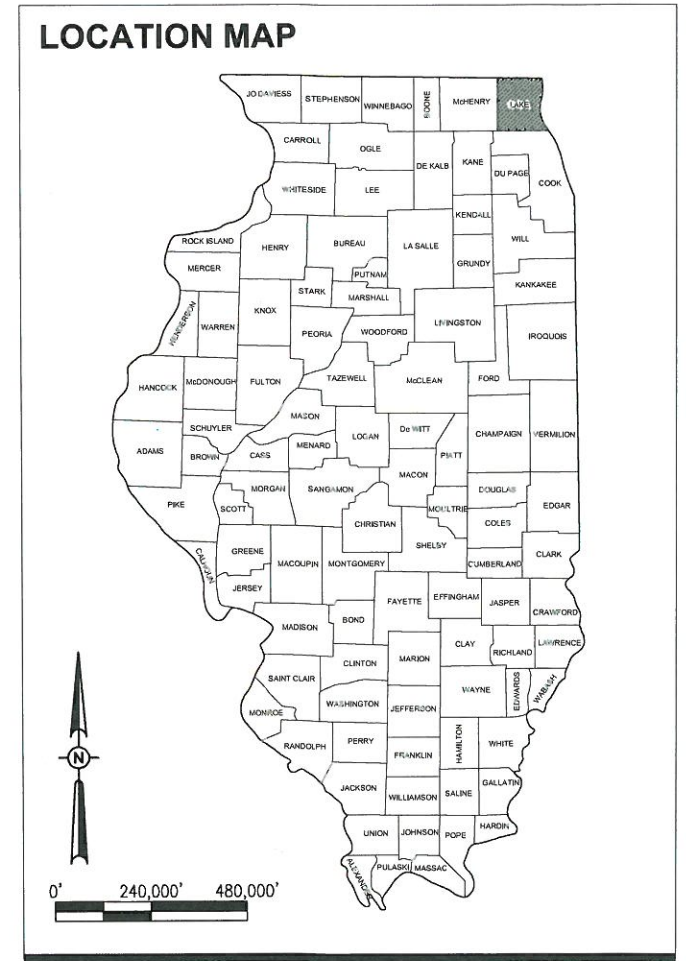
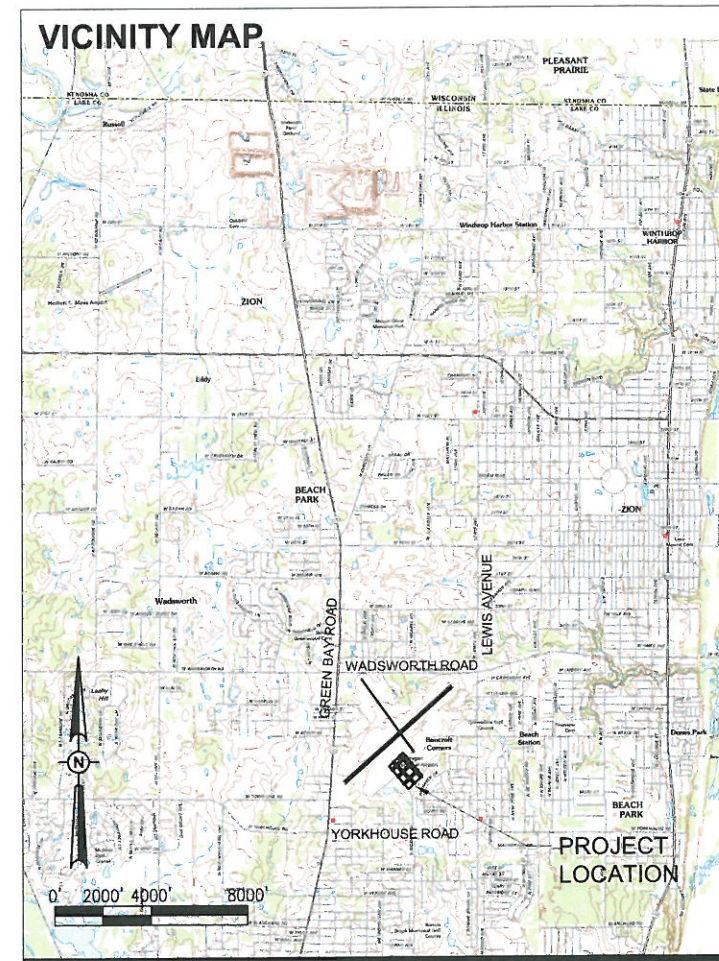


CONSTRUCTION PLANS

REHABILITATE SOUTHEAST PORTION OF MAIN RAMP -  
CONTRACT 1

WAUKEGAN PORT DISTRICT  
WAUKEGAN NATIONAL AIRPORT (UGN)  
WAUKEGAN, LAKE COUNTY, ILLINOIS

SBG PROJECT NO. 3-17-SBGP-TBD  
IDA PROJECT NO. UGN-4256



NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

No.	Issue/Description	Sheets Changed	Date	By

Seal  
  
 Kevin M. Spitz  
 Project Engineer  
 Date of Plans  
 June 5, 2015  
 Date

HANSON PROFESSIONAL SERVICES INC.  
 815 Commerce Drive, Suite 200  
 Oak Brook, Illinois 60523  
 Telephone: 630.990.3800  
 Fax: 630.990.3801  
  
 Ronald M. Hudson, AICP  
 Project Manager  
 June 5, 2015  
 Date

WAUKEGAN NATIONAL AIRPORT  
 WAUKEGAN PORT DISTRICT  
 2801 Plane Rest Drive  
 Waukegan, Illinois 60087  
 Telephone: 847.244.0055  
 Fax: 847.244.3813  
  
 James P. Stanczak  
 Airport Manager  
 June 5, 2015  
 Date

FILENAME:LONG







## GENERAL NOTES

### PROJECT DESCRIPTION

THIS PROJECT IS TO REHABILITATE THE SOUTHEAST AIRCRAFT PARKING APRON AT WAUKEGAN NATIONAL AIRPORT INCLUDING, AMONG OTHER INCIDENTAL WORK, THE FOLLOWING ITEMS:

- PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
- PROVISION OF TRAFFIC MAINTENANCE AND HAUL ROUTE.
- FULL DEPTH REMOVAL & PROVISION OF REQUIRED UNCLASSIFIED EXCAVATION.
- PLACEMENT OF SUBSURFACE UNDERDRAIN AND DRAINAGE PIPE AND STRUCTURES.
- REPLACEMENT OF EXISTING MANHOLE FRAMES AND GRATES.
- RECONSTRUCTION OF APRON PCC PAVEMENTS, STABILIZED SUBBASE, AND AGGREGATE BASE.
- CONCRETE PANEL FULL DEPTH REMOVE AND REPLACE.
- PLACEMENT OF PAVEMENT MARKINGS.
- GRADE, TOPSOIL, SEED, AND PLACE EROSION CONTROL BLANKET OUTSIDE OF PAVED AREAS.

### PROTECTION OF EXISTING AIRPORT FACILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT; DRIVEWAY AND ROAD PAVEMENT AND SHOULDERS; RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS; RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT; AND SEEDED AND TURFED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE.

IN ADDITION WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT MANAGER OR THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TYPE SWEEPER IN ALL ACTIVE CONSTRUCTION PAVEMENT AREAS. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SWEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE FAA (SMO) THROUGH THE RESIDENT ENGINEER TO LOCATE ALL FAA CABLES ON THE PROJECT SITE. ALL FAA CABLES SHALL BE PROTECTED AT ALL TIMES.

### CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN ON THIS SHEET. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

HEAVY VEHICLES SHALL NOT CROSS EXISTING PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT, STORAGE AND PARKING AREA AT THE LOCATION SHOWN ON THIS SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. AT THE AIRPORT MANAGER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT MANAGER. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

### RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND NEITHER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE OF ANY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (PHONE 800-892-0123) TO ASSIST IN THE ABOVE.

CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA.

THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING-AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY OR AGENCY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE IMMEDIATELY.

### AIRPORT SECURITY

THE CONTRACTOR IS TO COORDINATE GATE SECURITY, THROUGH THE RESIDENT ENGINEER, WITH THE AIRPORT MANAGEMENT. AIRPORT SECURITY SHALL BE MAINTAINED AT ALL TIMES.

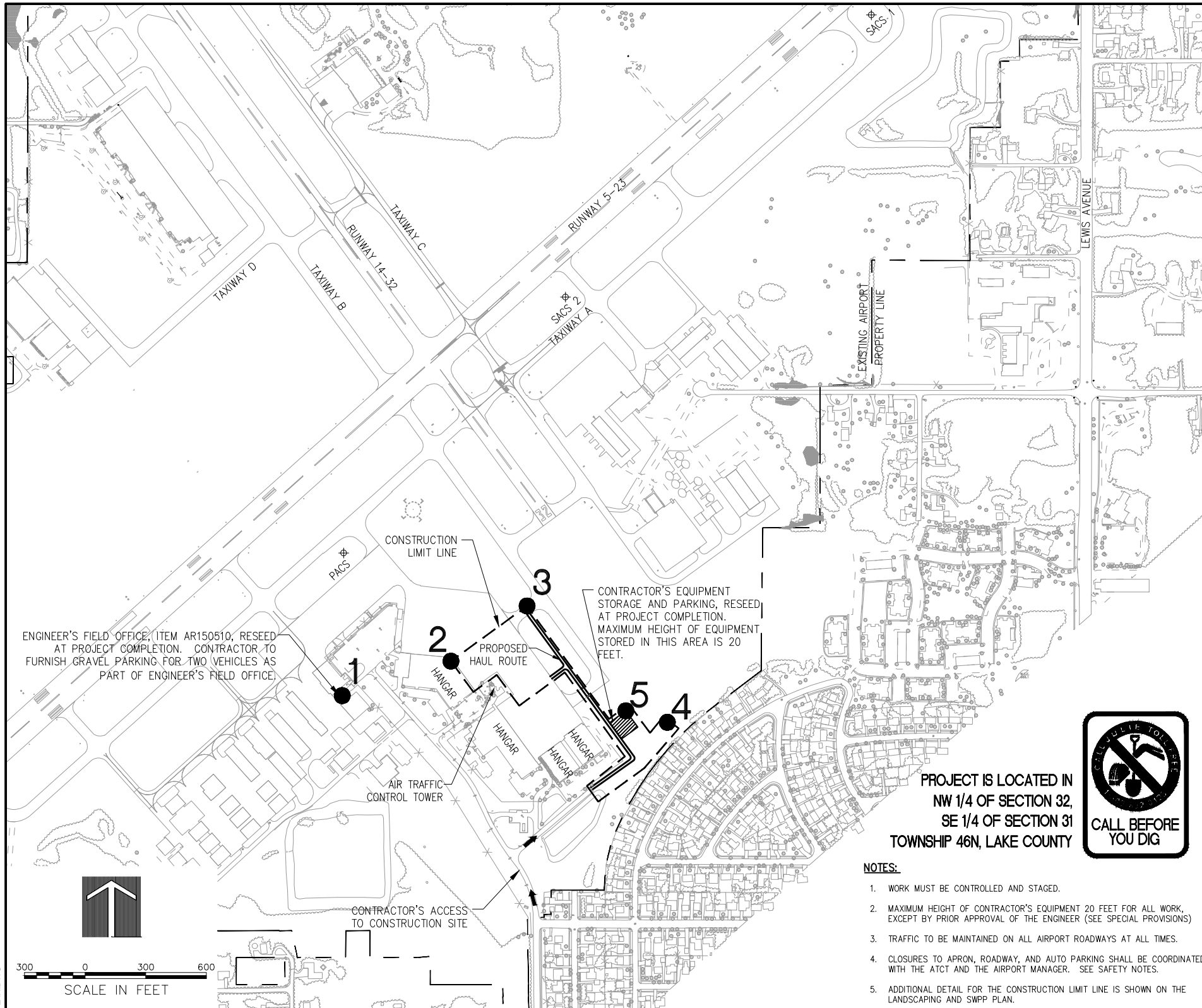
### EXISTING CONTROL POINTS

PACS:	N 2095587.482	SACS 1	N 2098251.587	SACS 2	N 2096854.703
	E 1109729.492		E 1112341.241		E 1110827.340
	ELEV. 705.1		ELEV. 717.6		ELEV. 709.1

### NOTES:

1. COORDINATES ARE IN NAD 83 FOR HORIZONTAL AND NAVD 88 FOR VERTICAL.
2. STATIONS, OFFSETS AND ELEVATIONS SHOWN ARE IN FEET.
3. THE APPROACH END OF RUNWAY 5 IS STATION 100+00. THE APPROACH END OF RUNWAY 32 IS STATION 200+00.
4. THE AIRPORT REFERENCE CODE FOR RUNWAY 14-32 IS B-II WITH VISUAL APPROACHES ON BOTH RUNWAY 14 AND RUNWAY 32.
5. THE AIRPORT REFERENCE CODE FOR RUNWAY 5-23 IS D-III WITH NONPRECISION APPROACH GREATER THAN 3/4 MILE FOR RUNWAY 5 AND PRECISION APPROACH TO RUNWAY 23.

RUNWAY END COORDINATES				
DESCRIPTION	LATITUDE	LONGITUDE	STATION	ELEVATION
RUNWAY 5 END	42° 24' 57.0507" N	87° 52' 32.2310" W	100+00.00	725.75
RUNWAY 23 END	42° 25' 36.3758" N	87° 51' 32.3244" W	159+98.70	723.50
RUNWAY 14 END	42° 25' 39.5792" N	87° 52' 22.7232" W	237+49.37	727.97
RUNWAY 14 END	42° 25' 35.5735" N	87° 52' 18.8240" W	232+49.41	728.14
RUNWAY 32 END	42° 25' 09.5378" N	87° 51' 53.4845" W	200+00.00	712.00



PROJECT IS LOCATED IN  
NW 1/4 OF SECTION 32,  
SE 1/4 OF SECTION 31  
TOWNSHIP 46N, LAKE COUNTY

### NOTES:

1. WORK MUST BE CONTROLLED AND STAGED.
2. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT 20 FEET FOR ALL WORK, EXCEPT BY PRIOR APPROVAL OF THE ENGINEER (SEE SPECIAL PROVISIONS)
3. TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES.
4. CLOSURES TO APRON, ROADWAY, AND AUTO PARKING SHALL BE COORDINATED WITH THE ATCT AND THE AIRPORT MANAGER. SEE SAFETY NOTES.
5. ADDITIONAL DETAIL FOR THE CONSTRUCTION LIMIT LINE IS SHOWN ON THE LANDSCAPING AND SWPP PLAN.

### OBJECT INFORMATION

ITEM NO.	DESCRIPTION	MOBILITY	GROUND ELEVATION	OBJECT ELEVATION	LATITUDE	LONGITUDE	RUNWAY 5-23 STATION	RUNWAY 5-23 OFFSET	RUNWAY 5-23 EXIST EL.	RUNWAY 14-32 STATION	RUNWAY 14-32 OFFSET	RUNWAY 14-32 EXIST EL.
1	ENGINEER'S FIELD OFFICE	STATIONARY	706.1	721.1	42° 25' 01.0665" N	87° 52' 07.2313" N	116+69.17	938.9	710.5	199+07.66	1337.9	712.4
2	CONSTRUCTION EQUIPMENT	MOVING	708.9	728.9	42° 25' 02.7227" N	87° 52' 00.0436" N	121+83.87	1171.0	711.0	197+28.33	802.6	712.4
3	CONSTRUCTION EQUIPMENT	MOVING	710.7	730.7	42° 25' 05.4023" N	87° 51' 55.0019" N	126+46.80	1218.8	709.5	197+27.17	337.2	712.4
4	CONSTRUCTION EQUIPMENT	MOVING	709.6	729.6	42° 24' 59.6725" N	87° 51' 45.7874" N	127+79.41	2111.3	709.4	188+53.03	115.8	712.4
5	CONTRACTOR STAGING AREA	STATIONARY	706.4	726.4	42° 25' 00.2465" N	87° 51' 48.5216" N	126+64.45	1931.8	709.5	190+19.52	248.1	712.4

## REHABILITATE SOUTHEAST PORTION OF MAIN RAMP - CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

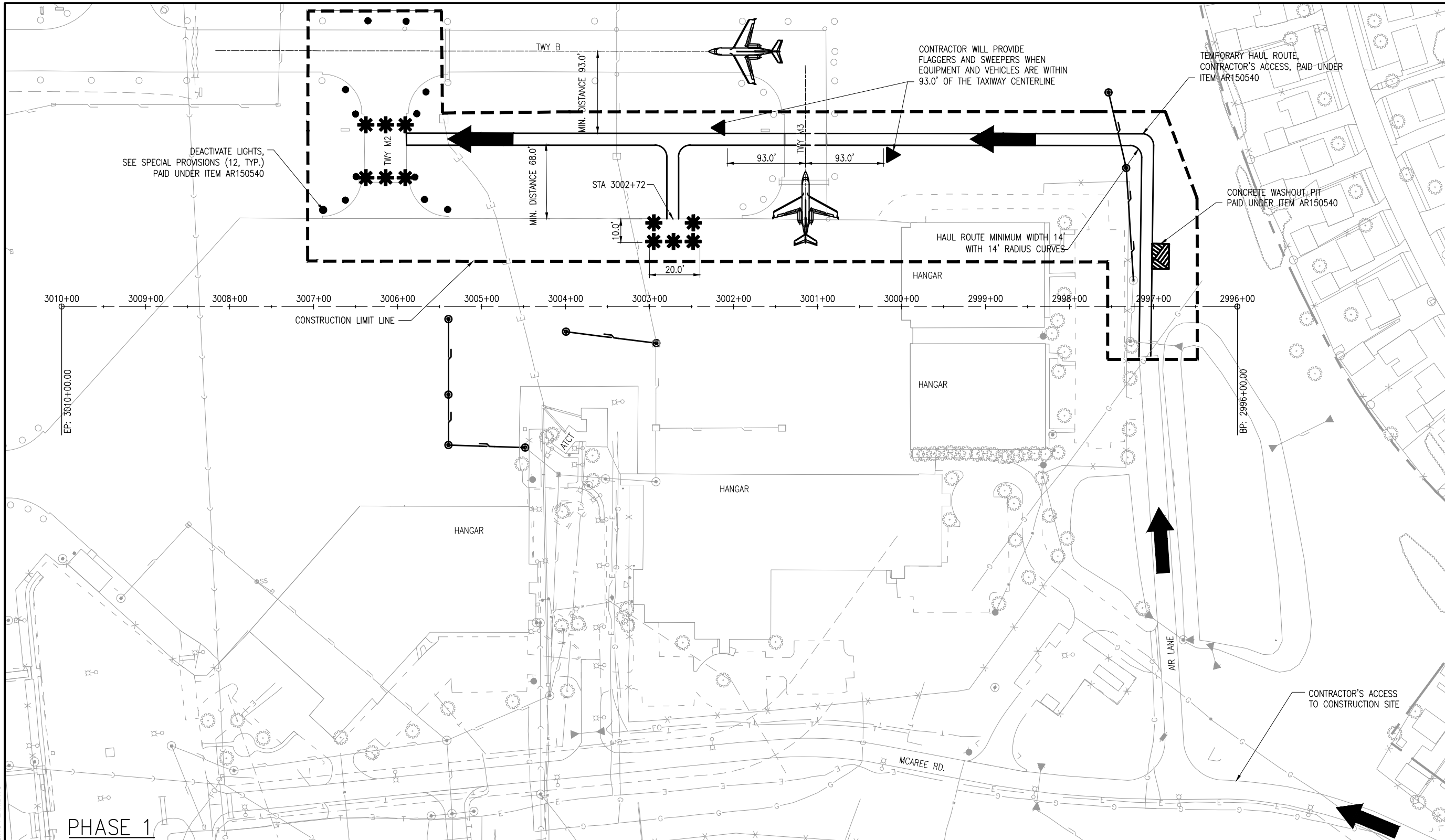
Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 03-SITEPLAN.DWG  
DESIGN BY: KMS 3/23/2015  
DRAWN BY: KMS 3/23/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

## SITE PLAN AND GENERAL NOTES





**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 05-PHASING PLAN.DWG  
DESIGN BY: KMS 3/5/2015  
DRAWN BY: KMS 3/5/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**PHASE 1**

**NOTES**

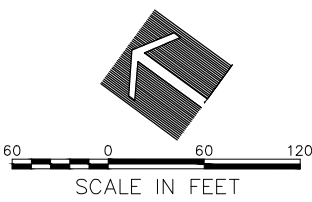
- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN CONSTRUCTION LIMIT LINES AS SHOWN.
- ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 20 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER (SEE SPECIAL PROVISIONS)
- CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 14-32 OR 5-23 AT ANY TIME.
- TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES.
- SEE CONSTRUCTION SITE PLAN ON SHEET 3 AND SAFETY NOTES ON SHEET 4.
- COORDINATE WITH RESIDENT ENGINEER FOR DEACTIVATING TAXIWAY LIGHTS.

**THE FOLLOWING ITEMS ARE TO BE COMPLETED IN PHASE 1:**

- INSTALL SILT FENCE AND EROSION CONTROL MEASURES WITHIN PHASE 1 LIMITS.
- EXCAVATE AND CONSTRUCT HAUL ROUTE AND CONCRETE WASHOUT PIT WITHIN PHASE 1 LIMITS.

HAUL ROUTE  
 HAUL ROUTE ON EXISTING PAVEMENT  
 TEMPORARY LOW PROFILE BARRICADES  
 MASKED LIGHT  
 AIRPLANE MOVEMENTS  
 VEHICLE MOVEMENTS  
 PAVEMENTS TO BE CONSTRUCTED

CONSTRUCTION VEHICLES SHALL BE CONTROLLED BY CONTRACTOR AND SHALL ALWAYS YIELD TO AIRCRAFT. SEE SPECIAL PROVISIONS



JUN 09 2015 10:01 AM HAUSM00682  
I:\14\JOBS\14A0097\14A0097\DRAWINGS\SHEETS\05-PHASING PLAN.DWG



**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

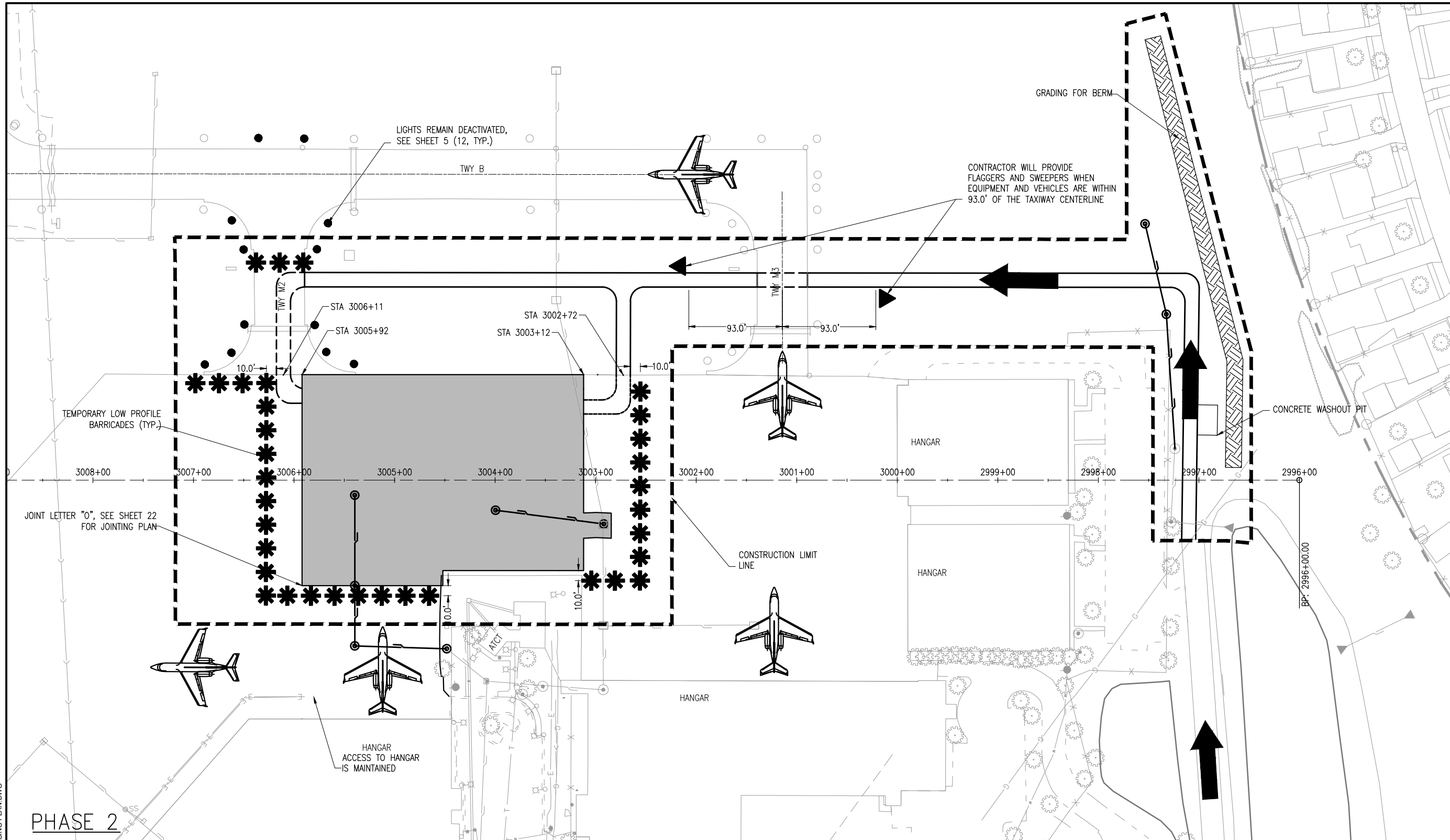
Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 06-PHASING PLAN.DWG  
DESIGN BY: KMS 3/9/2015  
DRAWN BY: KMS 3/9/2015  
REVIEWED BY: RMH 6/4/2015

© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**PHASING PLAN  
PHASE 2**



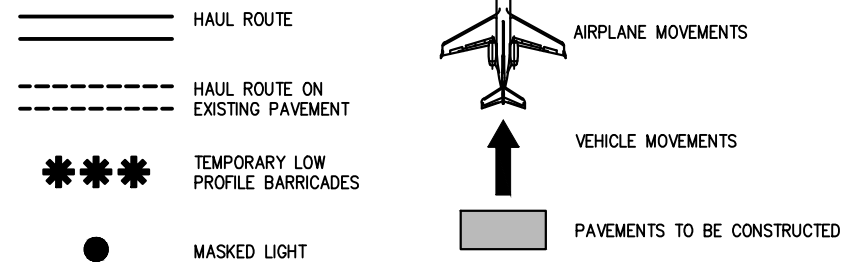
**PHASE 2**

**NOTES**

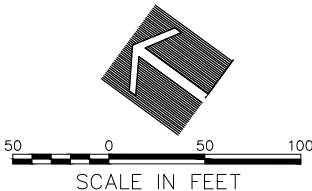
- SEE SHEET 5 FOR NOTES

**THE FOLLOWING ITEMS ARE TO BE COMPLETED IN PHASE 2:**

- PAVEMENT REMOVAL AND EXCAVATION OF SUBGRADE WITHIN PHASE 2 LIMITS.
- INSTALL STORM SEWER AND STORM STRUCTURES WITHIN PHASE 2 LIMITS, INCLUDING THE SEWER AND STRUCTURES IN THE HAUL ROUTE AREA.
- INSTALL AGGREGATE BASE AND ASPHALT TREATED PERMEABLE SUBBASE COURSE WITHIN PHASE 2 LIMITS.
- INSTALL CONCRETE PAVEMENT WITHIN PHASE 2 LIMITS.
- PAVEMENT PATCHING WITHIN THE PHASE 2 LIMITS.
- GRADING, TOPSOILING AND LANDSCAPING WITHIN PHASE 2 LIMITS INCLUDING THE BERM IN THE HAUL ROUTE AREA.



CONSTRUCTION VEHICLES SHALL BE CONTROLLED BY CONTRACTOR AND SHALL ALWAYS YIELD TO AIRCRAFT. SEE SPECIAL PROVISIONS



JUN 09 2015 10:02 AM HAUSM00682 I:\14\JOBS\14A0097\14A0097\DRAWINGS\SHEETS\06-PHASING PLAN.DWG



REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

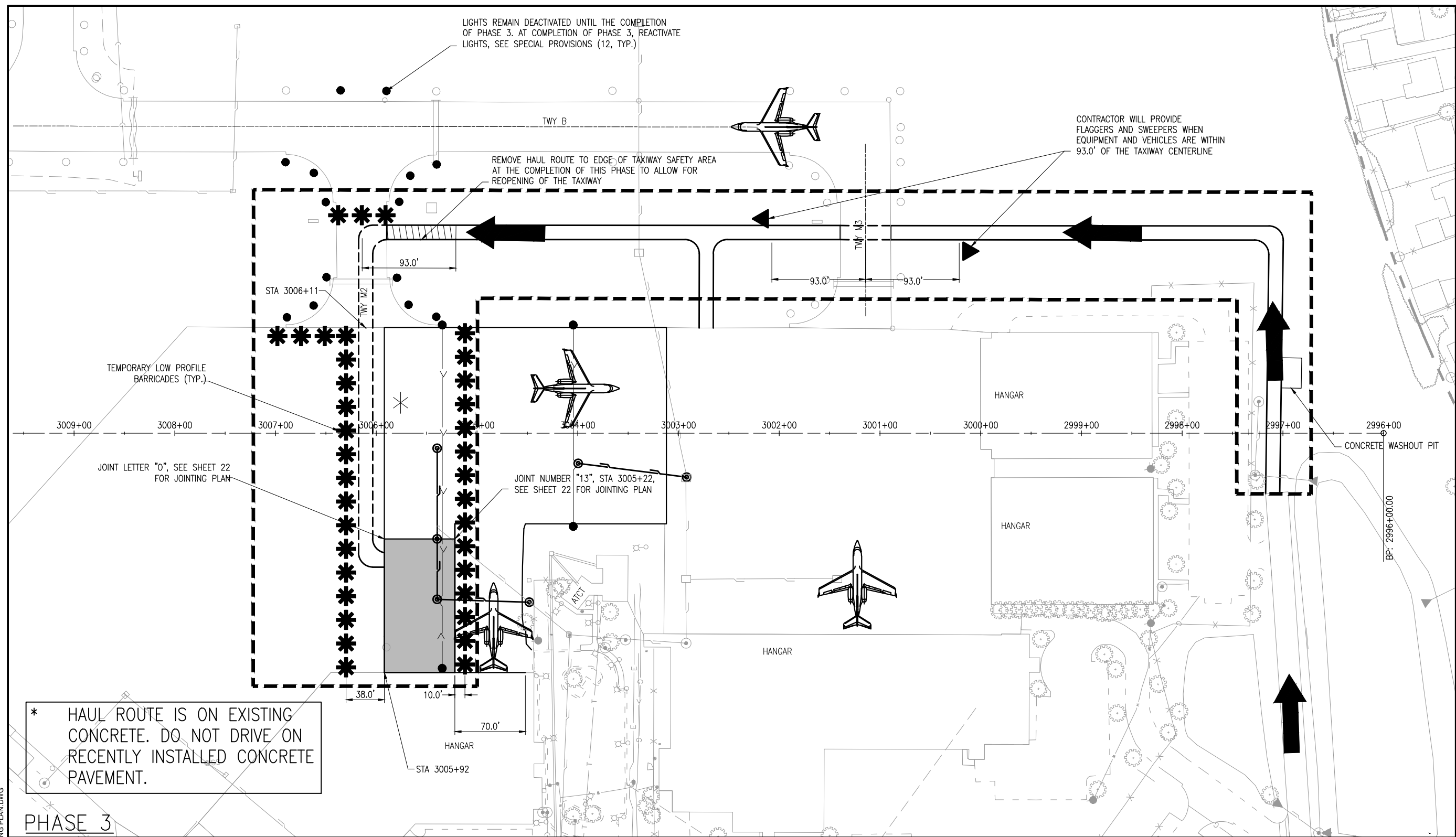
IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV

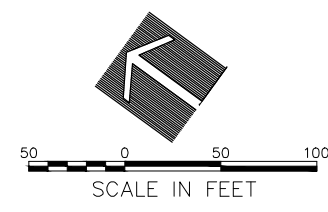
ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 07-PHASING PLAN.DWG  
DESIGN BY: KMS 3/9/2015  
DRAWN BY: KMS 3/9/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

PHASING PLAN  
PHASE 3



\* HAUL ROUTE IS ON EXISTING CONCRETE. DO NOT DRIVE ON RECENTLY INSTALLED CONCRETE PAVEMENT.

PHASE 3

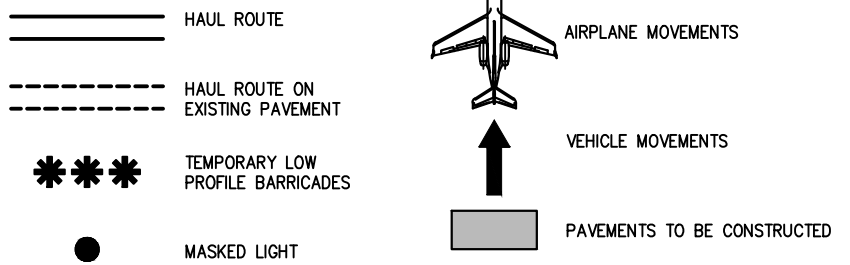


NOTES

- SEE SHEET 5 FOR NOTES

THE FOLLOWING ITEMS ARE TO BE COMPLETED IN PHASE 3:

- PAVEMENT REMOVAL AND EXCAVATION OF SUBGRADE WITHIN PHASE 3 LIMITS.
- INSTALL STORM SEWER AND STORM STRUCTURES WITHIN PHASE 3 LIMITS.
- INSTALL AGGREGATE BASE AND ASPHALT TREATED PERMEABLE SUBBASE COURSE WITHIN PHASE 3 LIMITS.
- INSTALL CONCRETE PAVEMENT WITHIN PHASE 3 LIMITS.
- PLACE PAVEMENT MARKINGS WITHIN PHASE 3 LIMITS.
- GRADING, TOPSOILING AND LANDSCAPING WITHIN PHASE 3 LIMITS.



CONSTRUCTION VEHICLES SHALL BE CONTROLLED BY CONTRACTOR AND SHALL ALWAYS YIELD TO AIRCRAFT. SEE SPECIAL PROVISIONS

JUN 09 2015 10:03 AM HAUSM00682 I:\14\085\14A0097\DRAWINGS\SHEETS\07-PHASING PLAN.DWG



**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

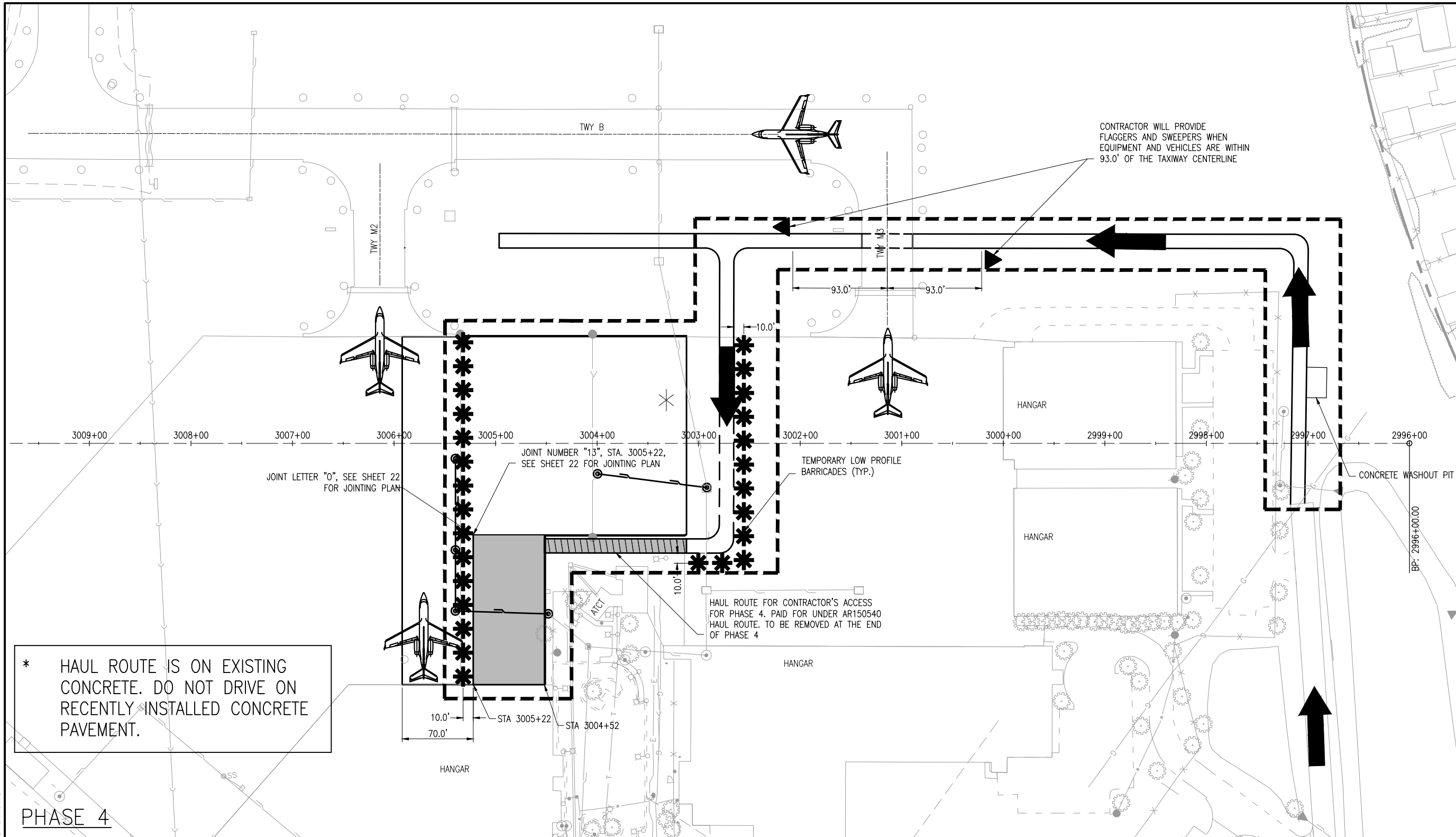
IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

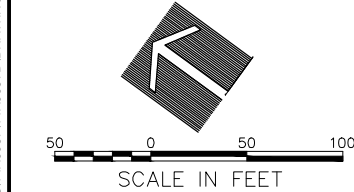
ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 08-PHASING PLAN.DWG  
DESIGN BY: KMS 3/9/2015  
DRAWN BY: KMS 3/9/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**PHASING PLAN  
PHASE 4**



\* HAUL ROUTE IS ON EXISTING CONCRETE. DO NOT DRIVE ON RECENTLY INSTALLED CONCRETE PAVEMENT.

**PHASE 4**



**NOTES**  
1. SEE SHEET 5 FOR NOTES

- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN PHASE 4:**
1. PAVEMENT REMOVAL AND EXCAVATION OF SUBGRADE WITHIN PHASE 4 LIMITS.
  2. INSTALL STORM SEWER AND STORM STRUCTURES WITHIN PHASE 4 LIMITS.
  3. INSTALL ASPHALT TREATED PERMEABLE SUBBASE COURSE WITHIN PHASE 4 LIMITS.
  4. INSTALL CONCRETE PAVEMENT WITHIN PHASE 4 LIMITS.
  5. GRADING, TOPSOILING AND LANDSCAPING WITHIN PHASE 4 LIMITS.

HAUL ROUTE  
 HAUL ROUTE ON EXISTING PAVEMENT  
 TEMPORARY LOW PROFILE BARRICADES  
 MASKED LIGHT  
 AIRPLANE MOVEMENTS  
 VEHICLE MOVEMENTS  
 PAVEMENTS TO BE CONSTRUCTED

CONSTRUCTION VEHICLES SHALL BE CONTROLLED BY CONTRACTOR AND SHALL ALWAYS YIELD TO AIRCRAFT. SEE SPECIAL PROVISIONS

JUN 09 2015 10:04 AM HAUSM00682 I:\14\JOBS\14A0097\DRAWINGS\SHEETS\08-PHASING PLAN.DWG





**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

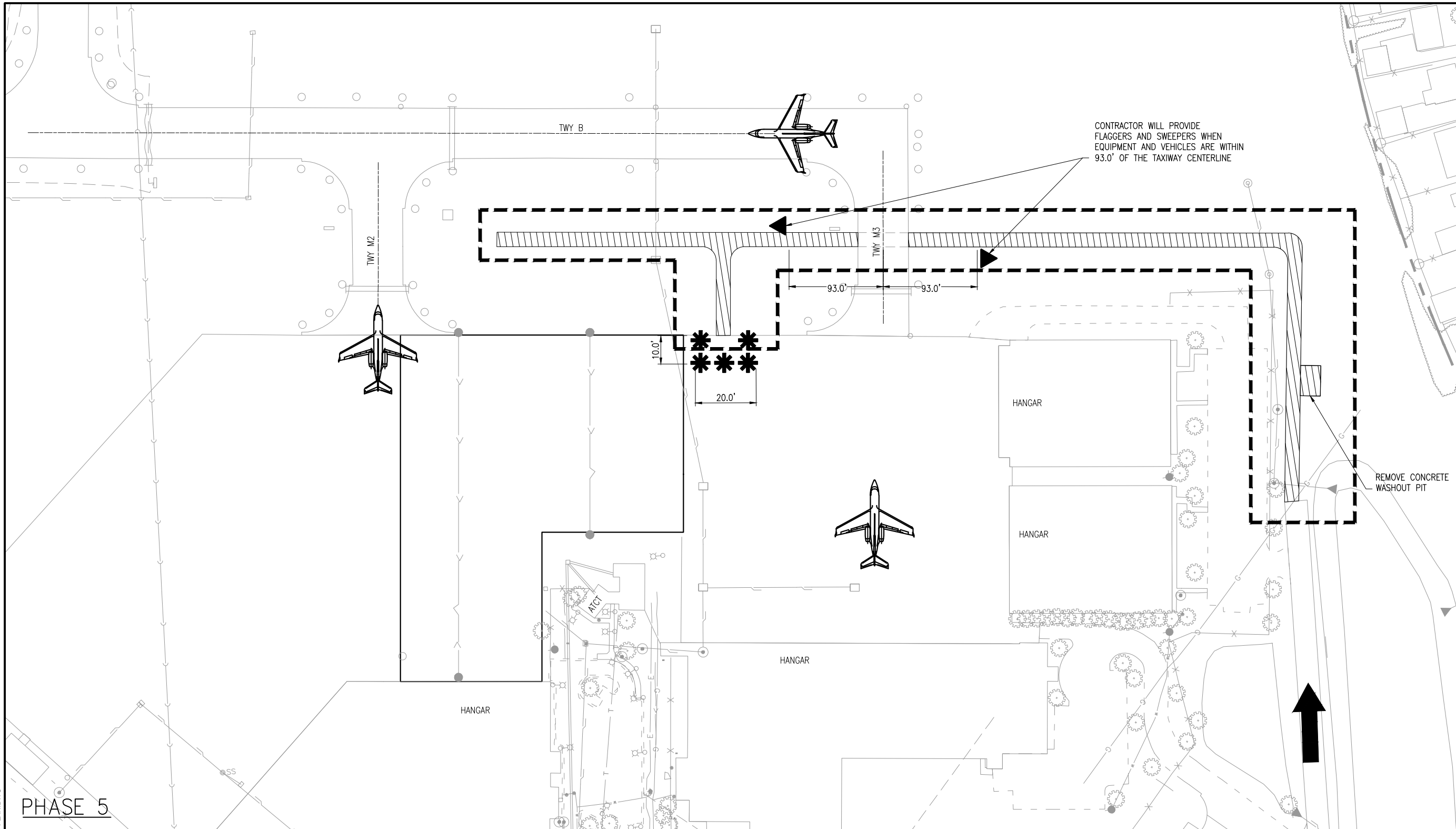
IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 09-PHASING PLAN.DWG  
DESIGN BY: KMS 3/9/2015  
DRAWN BY: KMS 3/9/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**PHASING PLAN  
PHASE 5**

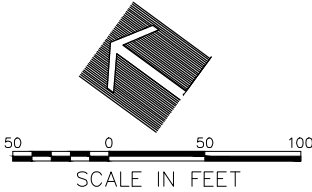


**THE FOLLOWING ITEMS ARE TO BE COMPLETED IN PHASE 5:**

1. REMOVE TEMPORARY HAUL ROAD WITHIN THE PHASE 5 LIMITS.
2. REMOVE TEMPORARY EROSION CONTROL AS MAY BE PERMITTED UNDER THE STORM WATER POLLUTION PREVENTION PLAN WITHIN THE PHASE 5 LIMITS.

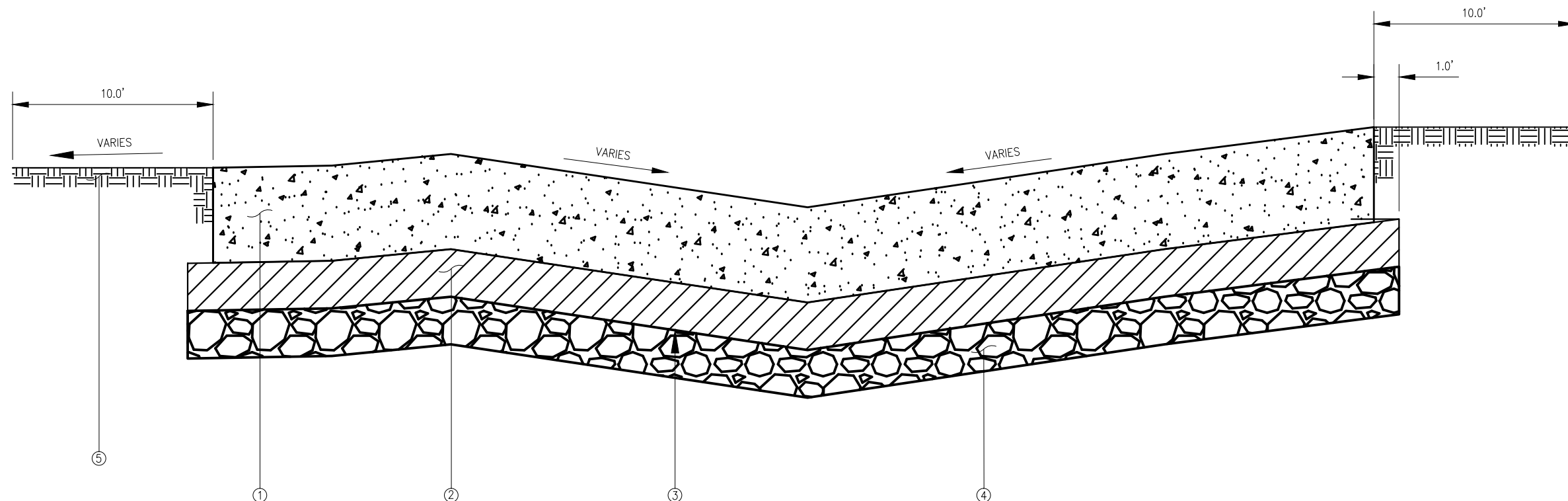
	HAUL ROUTE		AIRPLANE MOVEMENTS
	HAUL ROUTE ON EXISTING PAVEMENT		VEHICLE MOVEMENTS
	TEMPORARY LOW PROFILE BARRICADES		PAVEMENTS TO BE CONSTRUCTED
	MASKED LIGHT		

CONSTRUCTION VEHICLES SHALL BE CONTROLLED BY CONTRACTOR AND SHALL ALWAYS YIELD TO AIRCRAFT. SEE SPECIAL PROVISIONS



**NOTES**  
1. SEE NOTES ON SHEET 5

JUN 09 2015 10:04 AM HAUSM00682 I:\14\JOBS\14A0097\14A0097\DRAWINGS\SHEETS\09-PHASING PLAN.DWG



**NOTES:**

1. PAVEMENT SLOPES VARY. FOR MORE INFORMATION SEE CROSS SECTIONS, GRADING AND STAKING PLANS.
2. 4" TOPSOIL TO BE PLACED WHERE APPLICABLE.

**APRON TYPICAL SECTION**  
LOOKING NORTHWEST

**PAVEMENT LEGEND**

- ① PCC - 14.0" ITEM AR501514
- ② ASPHALT TREATED PERMEABLE SUBBASE - 5.0" ITEM AR302611
- ③ BITUMINOUS PRIME COAT ITEM AR602510 (0.30 GALLONS PER SQUARE YARD)
- ④ CRUSHED AGGREGATE BASE COURSE - 5.0" ITEM AR209605
- ⑤ TOPSOIL ITEM AR905520, SEEDING ITEM AR901510, AND EROSION CONTROL BLANKET ITEM AR156531

JUN 09 2015 10:05 AM HAUSM00682  
I:\14\JOBS\14A0097\14A0097\DRAWINGS\SHEETS\10-TYPSECTION.DWG

REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 10-TYPSECTION.DWG  
DESIGN BY: KMS 02/16/2015  
DRAWN BY: KMS 02/20/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

TYPICAL SECTIONS





**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 12-SWPPP.DWG  
DESIGN BY: KMS 1/28/2015  
DRAWN BY: KMS 1/28/2015  
REVIEWED BY: RMH 6/4/2015

© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**STORMWATER  
POLLUTION  
PREVENTION PLAN**

**CONSTRUCTION SEQUENCING:**

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

**NOTES:**

SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR, AT A MINIMUM, EVERY WEEK OR AFTER EVERY 1/2 INCH OR GREATER RAINFALL EVENT.  
CONTRACTOR IS RESPONSIBLE FOR ALL SITE MAINTENANCE UNTIL THE SITE IS TURNED OVER. THIS INCLUDES MOWING WHERE VEGETATION HAS BEGUN TO GROW BEFORE SUBSTANTIAL COMPLETION.

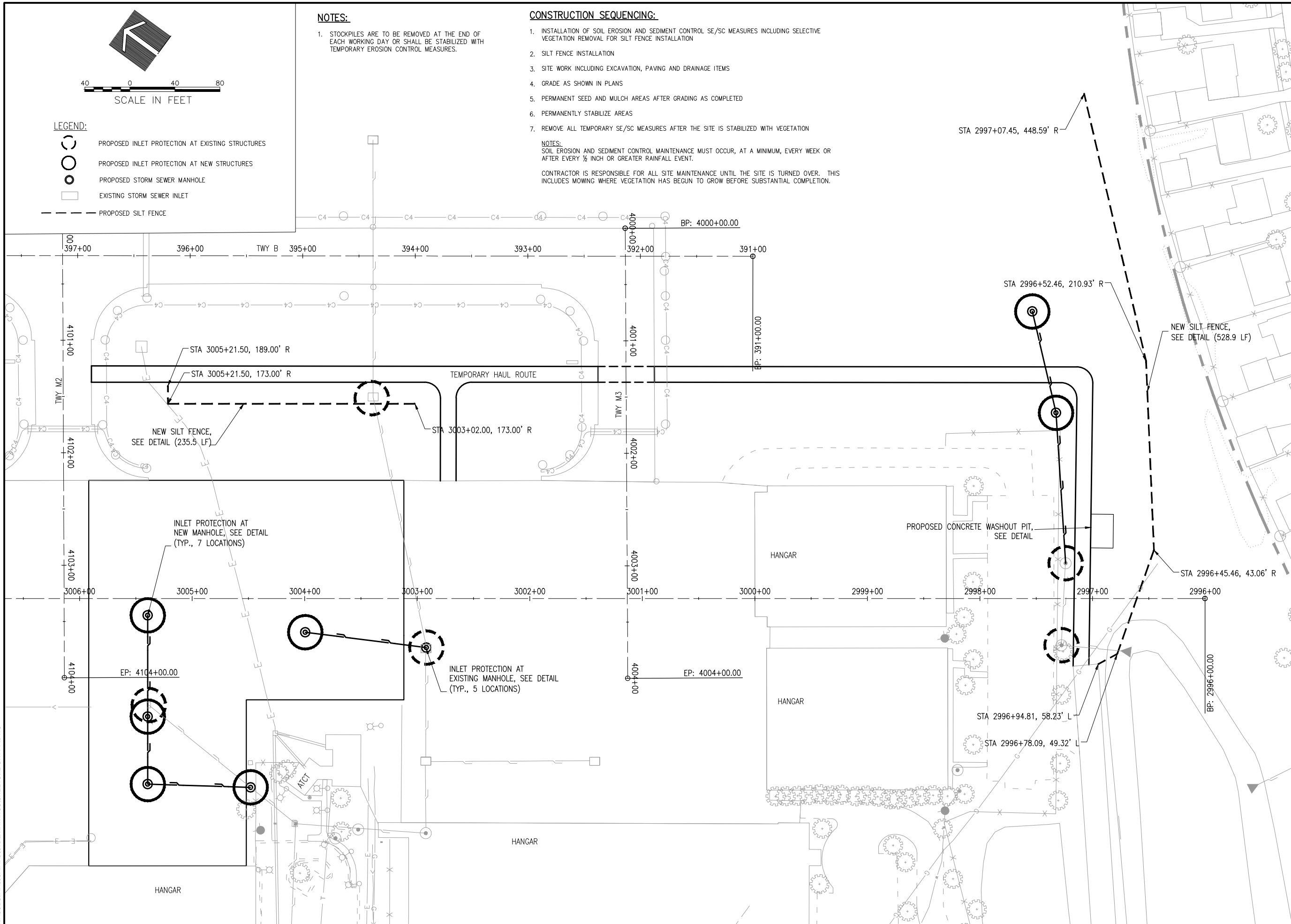
**NOTES:**

1. STOCKPILES ARE TO BE REMOVED AT THE END OF EACH WORKING DAY OR SHALL BE STABILIZED WITH TEMPORARY EROSION CONTROL MEASURES.



**LEGEND:**

- PROPOSED INLET PROTECTION AT EXISTING STRUCTURES
- PROPOSED INLET PROTECTION AT NEW STRUCTURES
- PROPOSED STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- PROPOSED SILT FENCE



JUN 09 2015 10:06 AM HAUSM00682  
I:\14\OBS\14A0097\14A0097\DRAWINGS\SHEETS\12-SWPPP.DWG





**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 13-SWPP DET.DWG  
DESIGN BY: KMS 1/28/15  
DRAWN BY: KMS 1/28/15  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**STORMWATER  
POLLUTION  
PREVENTION DETAILS**

**SEDIMENTATION AND EROSION CONTROL NOTES:**

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
- AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 8H:1V SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
- EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER. NO STOCKPILES SHALL BE LOCATED WITHIN AN ACTIVE RUNWAY SAFETY AREA, RUNWAY OBJECT FREE AREA, RUNWAY OBSTACLE FREE ZONE, OR ACTIVE TAXIWAY OBJECT FREE AREA.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

**STORM WATER POLLUTION PREVENTION NOTES**

**GENERAL**

THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED AS SOON AS POSSIBLE.

THE MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES IS INCIDENTAL TO THE ASSOCIATED ITEM.

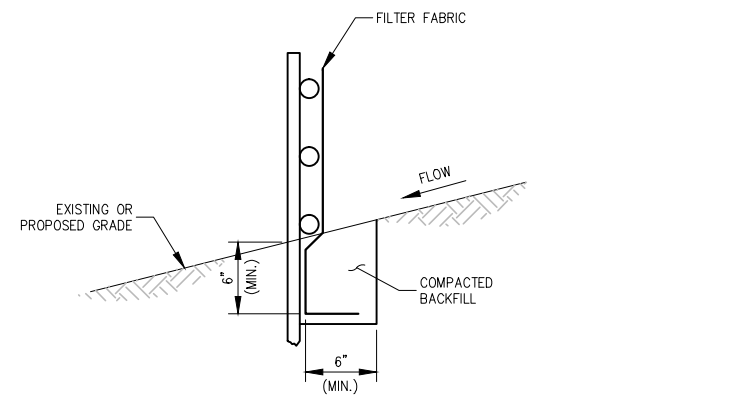
**POLLUTION PREVENTION MEASURES**

THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHEREVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES.

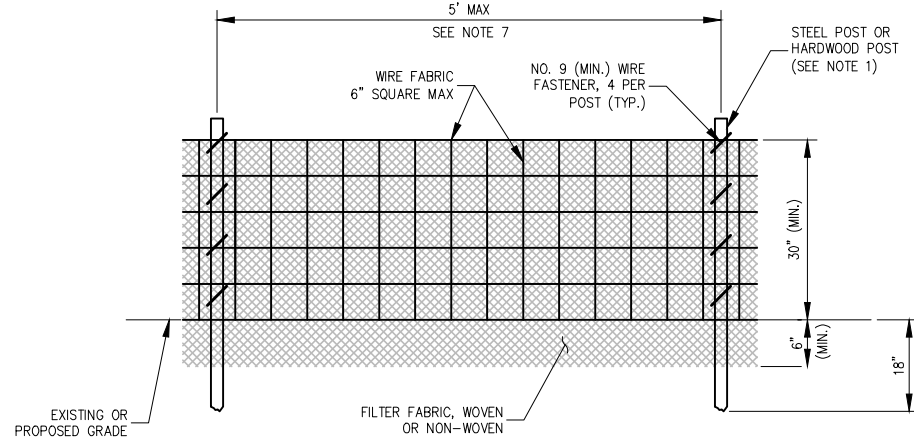
POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH LIMITS MAY BE ADJUSTED BY THE ENGINEER TO ACCOUNT FOR ACTUAL SITE CONDITIONS EXPERIENCED DURING CONSTRUCTION. ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.

THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.

ADDITIONAL STORMWATER POLLUTION PREVENTION MEASURES ARE EXISTING ON SITE LOCATED AT DRAINAGE FACILITIES AND ALONG THE PROPERTY LINE.



**FABRIC ANCHOR DETAIL**

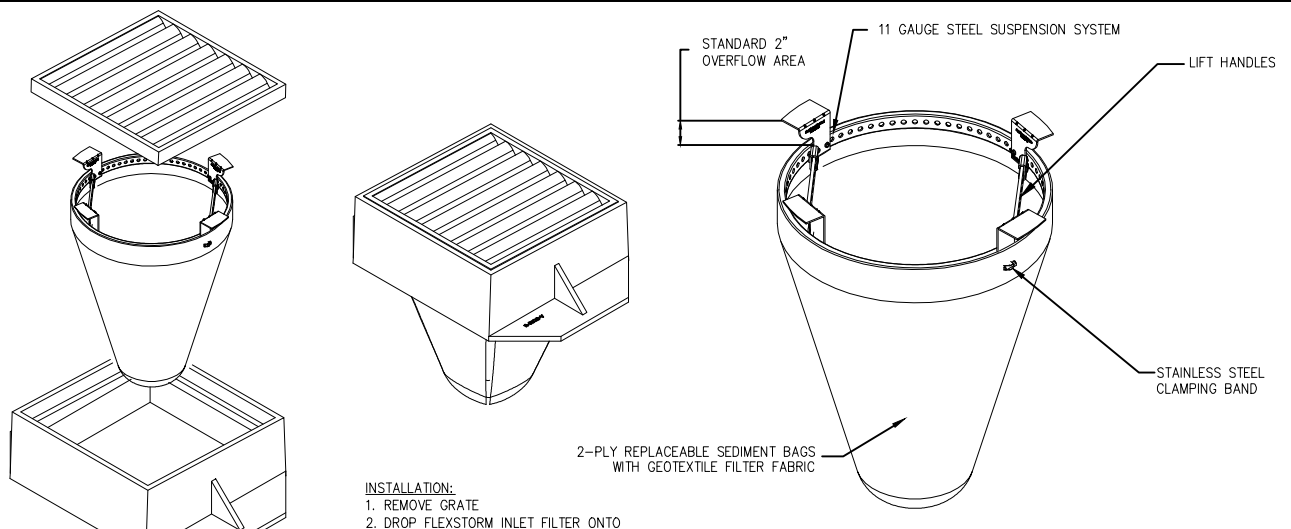


**ELEVATION**

**NOTES:**

- FENCE POST SHALL BE EITHER STEEL "T" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 2.0 SQUARE INCHES. A CARPENTER'S (NOMINAL) 2"x2" POST WILL MEET SPECIFICATIONS.
- TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
- WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
- FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
- FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH APPARENT OPENING SIZE (AOS) OF AT LEAST 40 FOR NONWOVEN AND WOVEN (OR MAXIMUM OF 0.60mm).
- A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

**SILT FENCE**



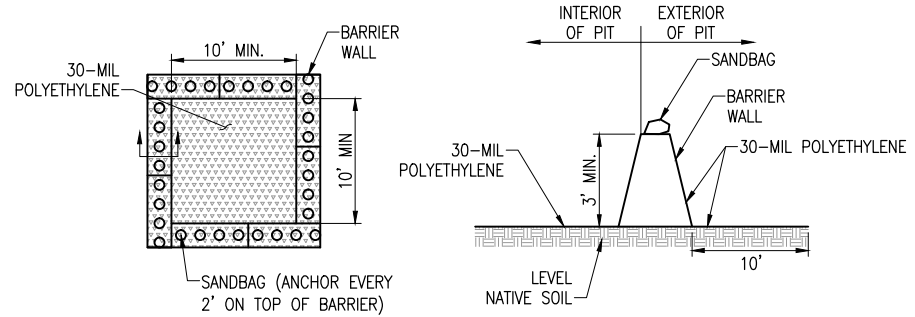
**TYPICAL ROUND INLET FILTER**

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

**NOTES:**

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

**INLET PROTECTION**



**PLAN VIEW**

**CROSS SECTION VIEW**

**NOTES:**

- IMPERMEABLE SHEETING MUST EXTEND OVER ENTIRE BASIN AND BERM TO PREVENT ESCAPE OF DISCHARGE.
- PROTECT AREA AROUND UNIT FOR 10 FEET WITH PLASTIC UNDER AND AROUND UNIT TO CONTAIN SPILLS OR OVERFLOW.
- FACILITY LINED WITH 30-MIL POLYETHYLENE LINER AND SECURED USING SAND BAGS, OR OTHER ANCHORS, AND SHALL BE FREE OF HOLES OR TEARS.
- FACILITY IS TO BE LOCATED ON LEVEL GROUND.
- WASHOUT NEEDS TO BE COVERED OR LIQUIDS TO BE REMOVED PRIOR TO IMPENDING STORMS TO PREVENT OVERFLOW.
- IF EFFLUENT CANNOT BE REMOVED PRIOR TO ANTICIPATED RAINFALL EVENT, PLACE AND SECURE A NON-COLLAPSING, NON WATER COLLECTING COVER OVER THE WASHOUT FACILITY TO PREVENT ACCUMULATION AND PRECIPITATION OVERFLOW.
- REMOVE WASHOUT WATER FROM HIGH VOLUME FACILITIES WITH A VACUUM TRUCK AND DISPOSE OF PROPERLY. DO NOT DISCHARGE WASTEWATER INTO THE ENVIRONMENT. (NOTE: ACIDITY, NOT PARTICULATES, IS ENVIRONMENTALLY HAZARDOUS)
- DO NOT DISCHARGE WASHOUT WATER INTO THE ENVIRONMENT; FACILITATE EVAPORATION OF LOW VOLUME WASHOUT WATER.
- INSPECT LINE FOR TEARS. AN INTACT LINER WILL ENSURE THAT CONCRETE WASTEWATER WILL NOT ESCAPE THE WASHOUT FACILITY.
- REPLACE DAMAGED LINER IMMEDIATELY.
- CHECK AREA SURROUNDING FACILITY FOR SIGNS OF EFFLUENT ESCAPING CONTAINMENT.
- INSPECT WASHOUT AREA FOLLOWING POUR TO EVALUATE EFFECTIVENESS.
- CHECK DEPTH OF SOLIDS TO ENSURE VOLUME IS SUFFICIENT FOR NEXT POUR.
- INSPECT WASHOUTS PRIOR TO POUR TO ENSURE SUFFICIENT VOLUME IS AVAILABLE TO CONTAIN WASHOUT.
- REMOVE TEMPORARY CONCRETE WASHOUT FACILITIES WHEN NO LONGER NEEDED AND RESTORE DISTURBED AREAS TO ORIGINAL CONDITION.
- DISPOSE OF SOLIDIFIED CONCRETE WASTE, CONSIDERED CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CDD) AS PER THE IEPA ACT (415 ILCS5).

**CONCRETE WASHOUT PIT**

JUN 09 2015 10:06 AM HAUSM006R2  
131410BS14A009714A0097D1DRAWINGS\SHSHEETS\13-SWPP DET.DWG



**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

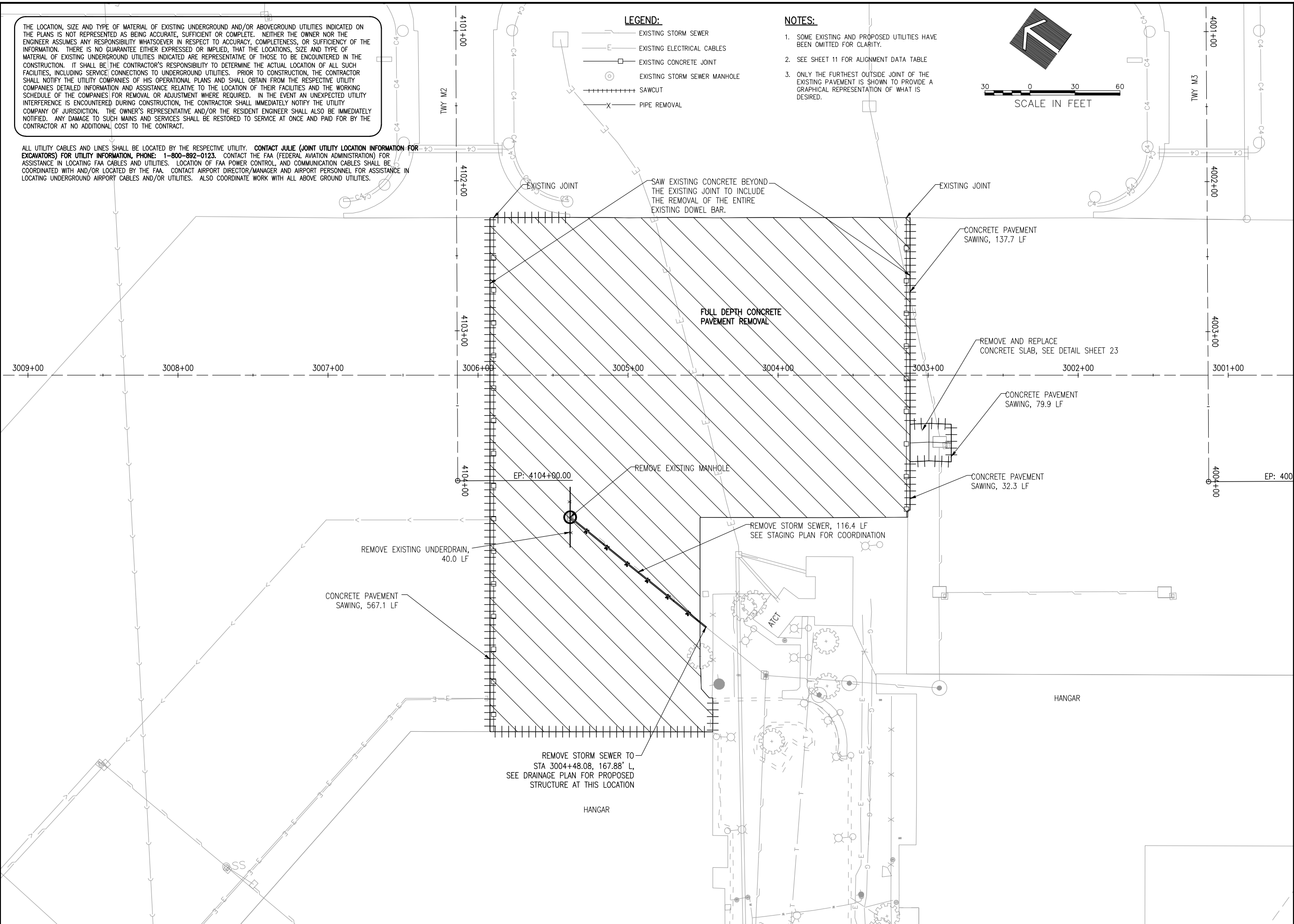
IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 14-REMOVAL PLAN.DWG  
DESIGN BY: KMS 1/28/2015  
DRAWN BY: KMS 1/28/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**REMOVAL PLAN**



JUN 09 2015 10:07 AM HAUSM00682 131410BS14A009714A0097D1DRAWINGS\14-REMOVAL PLAN.DWG

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVE GROUND UTILITIES.



**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015

PROJECT NO: 14A0097

CAD FILE: 15-PROPOSED PLAN.DWG

DESIGN BY: KMS 2/6/2015

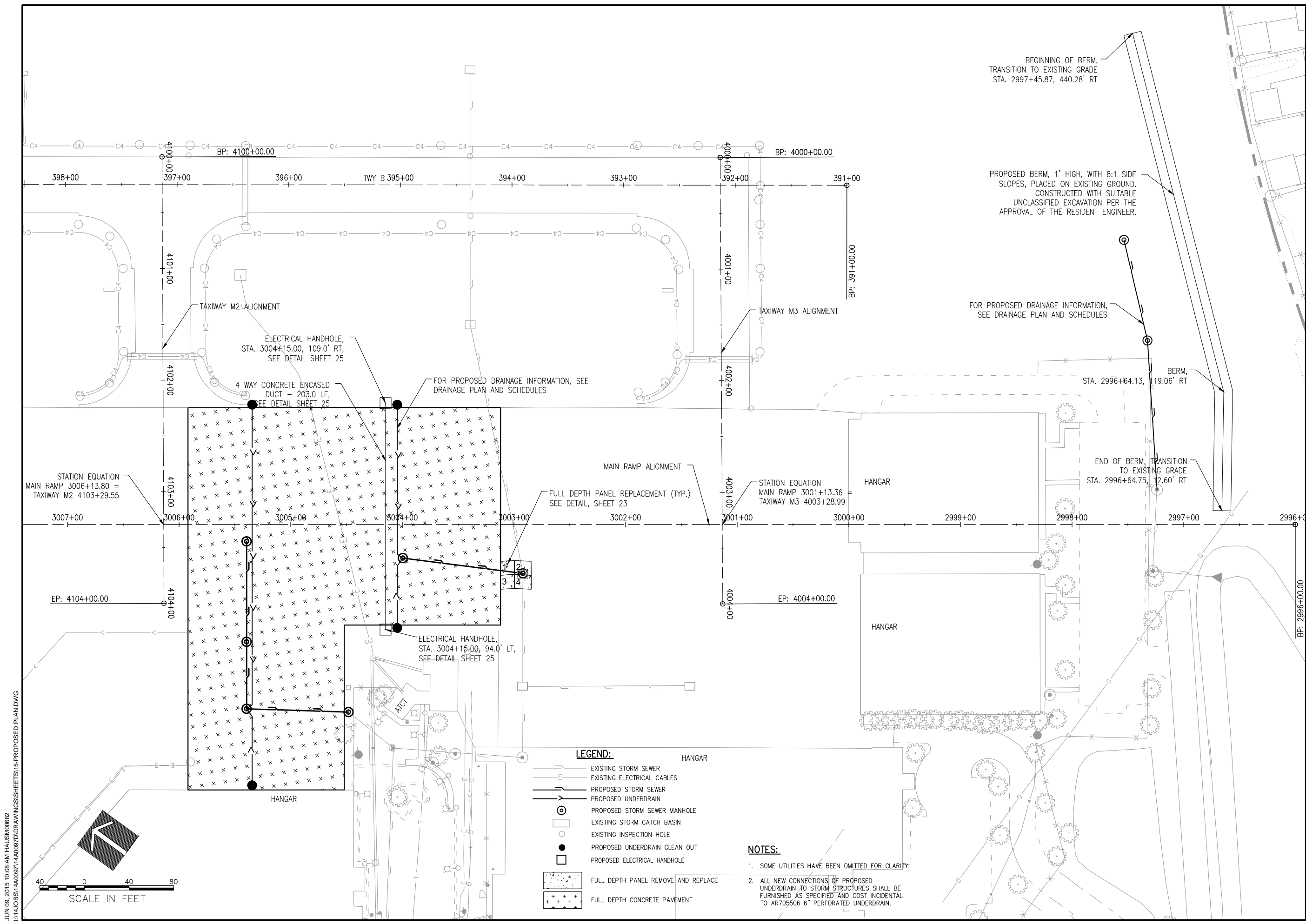
DRAWN BY: KMS 2/6/2015

REVIEWED BY: RMH 6/4/2015

© Copyright Hanson Professional Services Inc. 2013

SHEET TITLE

**PROPOSED PLAN**



JUN 09 2015 10:06 AM HAUSM00682  
I:\14\JOBS\14A0097\14A0097\DRAWINGS\SHEETS\15-PROPOSED PLAN.DWG

- LEGEND:**
- EXISTING STORM SEWER
  - EXISTING ELECTRICAL CABLES
  - PROPOSED STORM SEWER
  - PROPOSED UNDERDRAIN
  - ⊙ PROPOSED STORM SEWER MANHOLE
  - EXISTING STORM CATCH BASIN
  - EXISTING INSPECTION HOLE
  - PROPOSED UNDERDRAIN CLEAN OUT
  - PROPOSED ELECTRICAL HANDHOLE
  - ▨ FULL DEPTH PANEL REMOVE AND REPLACE
  - ▩ FULL DEPTH CONCRETE PAVEMENT

- NOTES:**
- SOME UTILITIES HAVE BEEN OMITTED FOR CLARITY.
  - ALL NEW CONNECTIONS OF PROPOSED UNDERDRAIN TO STORM STRUCTURES SHALL BE FURNISHED AS SPECIFIED AND COST INCIDENTAL TO AR705506 6" PERFORATED UNDERDRAIN.

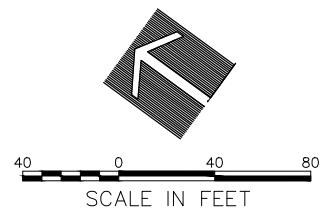
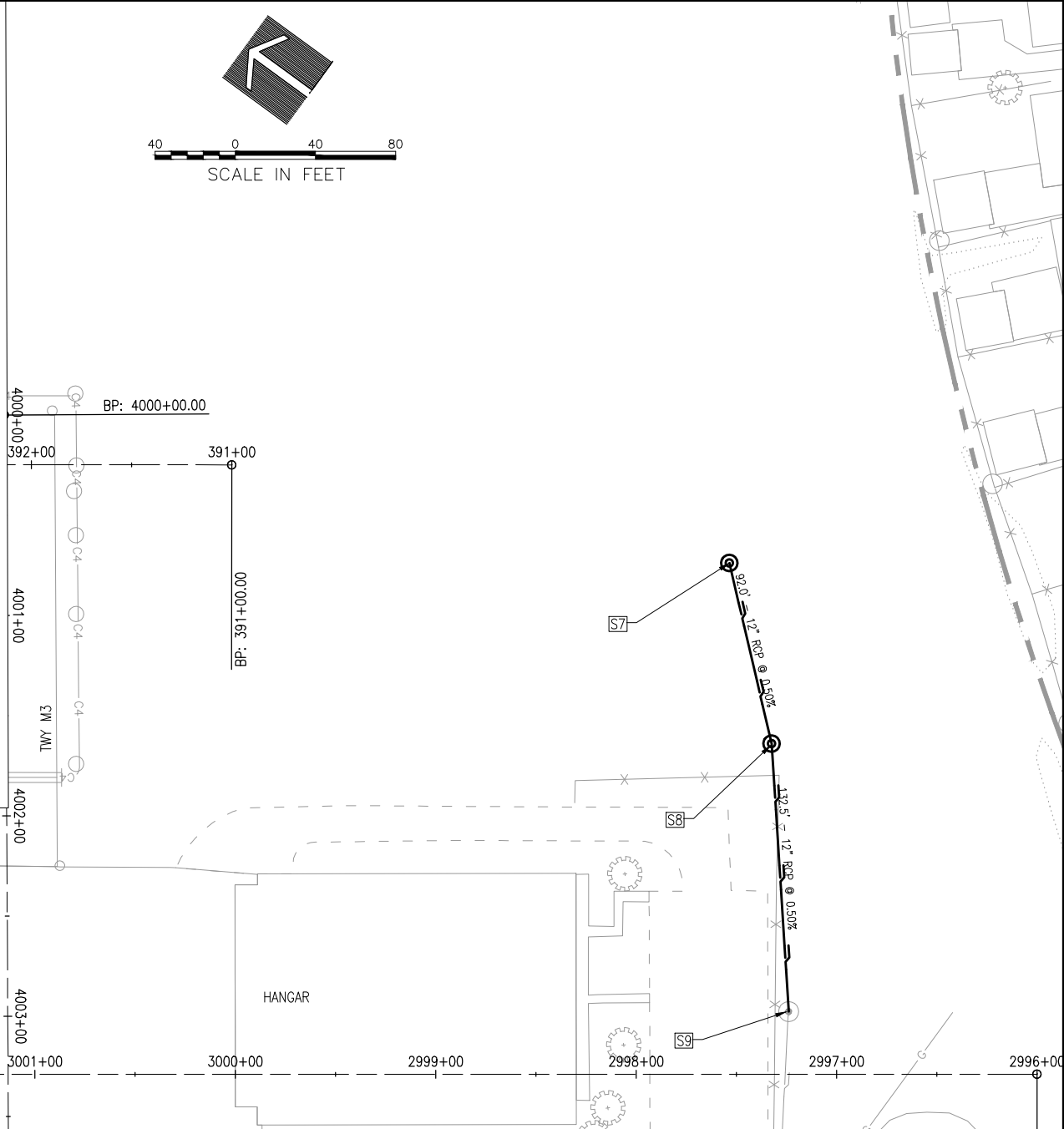
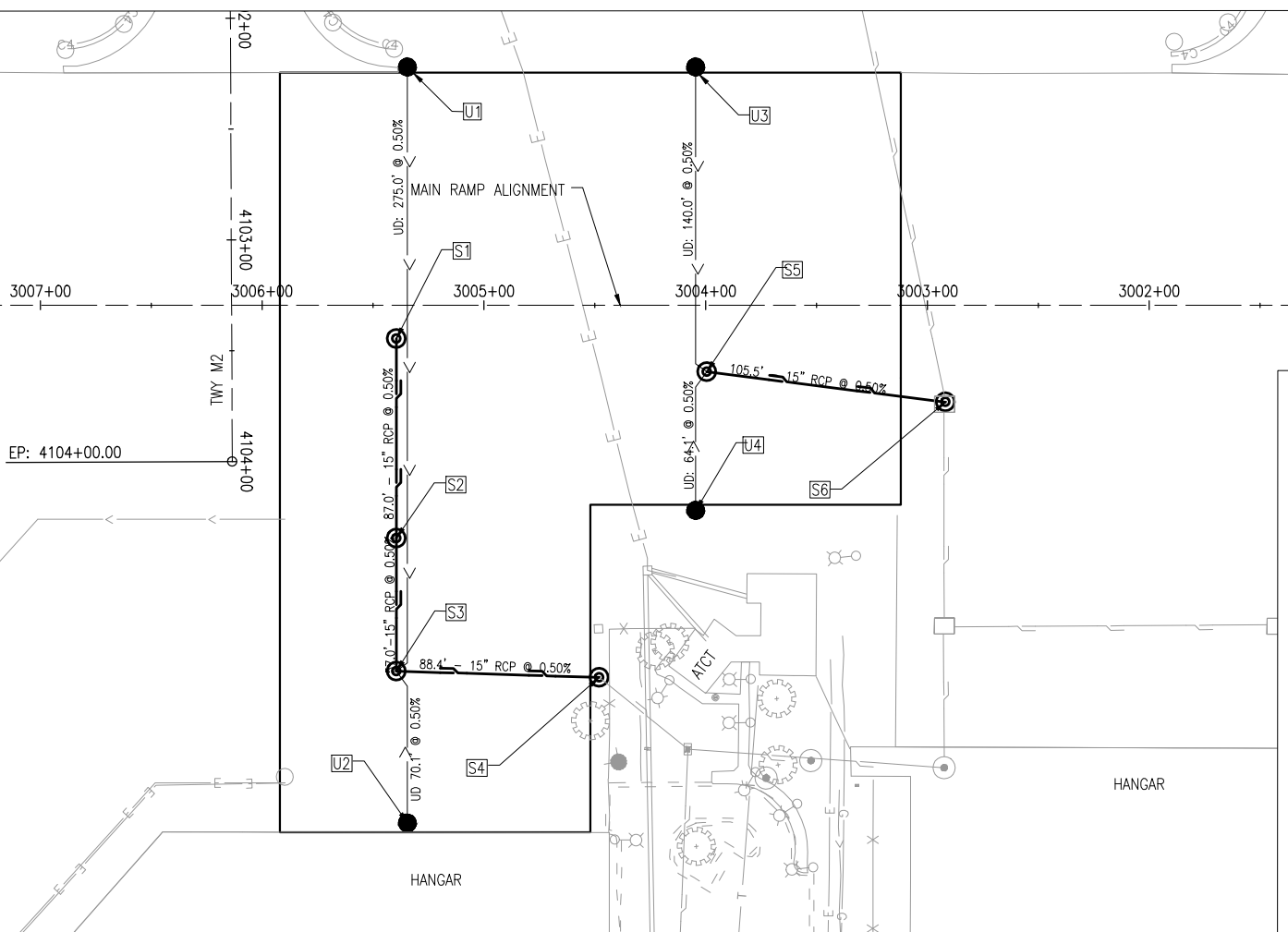


## DRAINAGE SCHEDULE

Structure	Station	Offset	Type	Structure Diameter	Frame & Grate Type	Rim Elevation	Invert		Pay Length	Size	Type	Slope
							Elevation	Direction				
S1	3005+39.47	15.0' LT	Manhole	48.0"	Neenah R-3492-A1	708.36	704.08	SW	87.0	15.0"	RCP	0.50%
S2	3005+39.47	105.0' LT	Manhole	48.0"	Neenah R-3492-A1	708.00	703.63	NE	57.0	15.0"	RCP	0.50%
						703.63	SW					
S3	3005+39.47	165.0' LT	Manhole	48.0"	Neenah R-3492-A1	708.12	703.33	NE	88.4	15.0"	RCP	0.50%
						703.33	SE					
S4	3004+48.08	167.9' LT	Manhole	48.0"	Neenah R-3492-A1	708.82	702.87	NW				

Structure	Station	Offset	Type	Structure Diameter	Frame & Grate Type	Rim Elevation	Invert		Pay Length	Size	Type	Slope
							Elevation	Direction				
S5	3003+99.47	30.0' LT	Manhole	48.0"	Neenah R-3492-A1	708.60	704.54	SE	105.5	15.0"	RCP	0.50%
S6 - EXIS	3002+91.87	43.6' LT	Manhole	48.0"	Neenah R-3492-A1	708.90	703.99	NW				

Structure	Station	Offset	Type	Structure Diameter	Frame & Grate Type	Rim Elevation	Invert		Pay Length	Size	Type	Slope
							Elevation	Direction				
S7	2997+53.50	255.1' RT	Inlet Type A	24.0"	Neenah R-2390-C	706.00	701.09	SE	92.0	12.0"	RCP	0.50%
S8	2997+32.42	165.0' RT	Inlet Type B	36.0"	Neenah R-2390-C	704.00	700.62	NW	132.5	12.0"	RCP	0.50%
S9 - EXIS	2997+23.92	31.3' RT	Existing MH			702.12	700.00	N				



## UNDERDRAIN SCHEDULE

Structure	Station	Offset	Type	Rim El.	Invert El.	Pay Length	Slope %
U1	3005+34.50	107.5' RT	Cleanout	709.76	707.26	275.0	0.50%
S3	3005+39.47	165.0' LT	RCP Connection	---	705.89 706.04	70.1	0.50%
U2	3005+34.50	233.5' LT	Cleanout	708.89	706.39	140.0	0.50%
U3	3004+04.50	107.5' RT	Cleanout	710.08	707.58	64.1	0.50%
S5	3003+99.47	30.0' LT	RCP Connection	---	706.88 706.06	64.1	0.50%
U4	3004+04.50	92.5' LT	Cleanout	708.88	706.38		



Offices Nationwide  
www.hanson-inc.com

Hanson Professional Services Inc.  
815 Commerce Drive, Suite 200  
Oak Brook, IL 60523  
phone: 630.990.3800  
fax: 630.990.3801

Illinois Licensed  
Professional Service Corporation  
#184-001084



WAUKEGAN NATIONAL AIRPORT  
WAUKEGAN PORT DISTRICT  
2601 Plane Rest Drive  
Waukegan, Illinois 60087  
Telephone: 847.244.0055  
Fax: 847.244.3813

REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

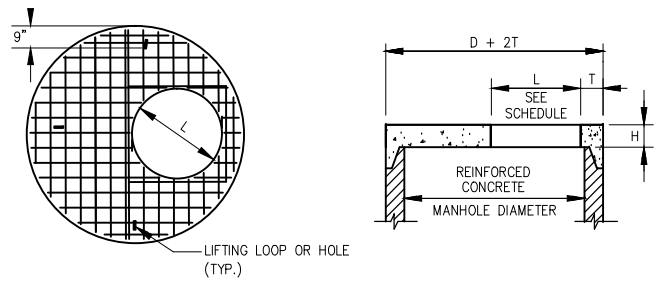
NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 16-DRAINAGE PLAN.DWG  
DESIGN BY: SJM 2/6/2015  
DRAWN BY: KMS 2/6/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

DRAINAGE PLAN

JUN 09 2015 10:06 AM HAUSM00682  
I:\14\OBS\14A0097\14A0097D\DRAWINGS\SHEETS\16-DRAINAGE PLAN.DWG

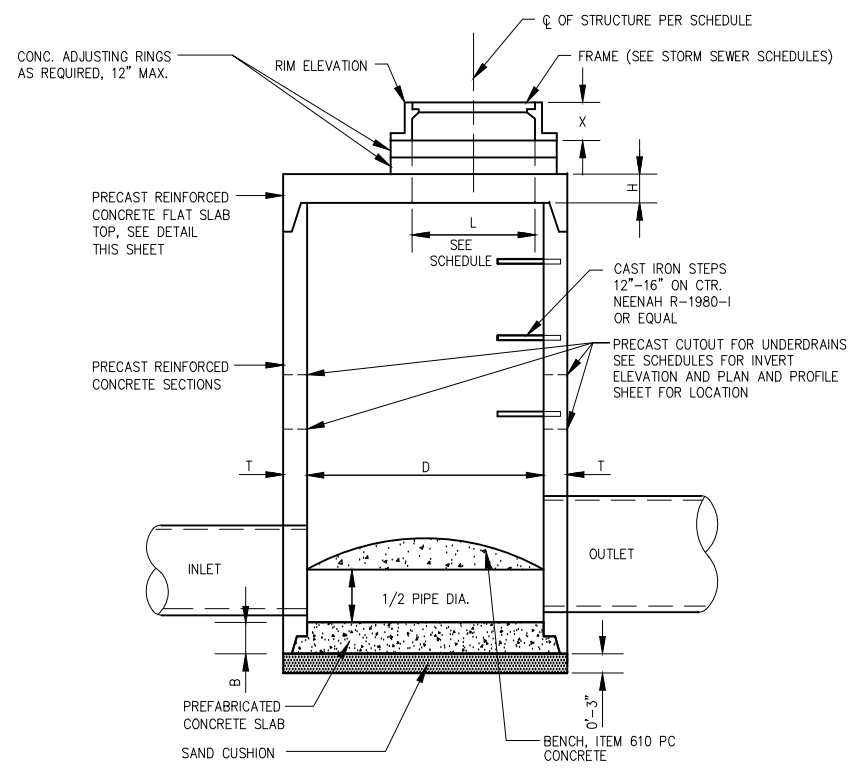




**NOTES**

1. ADDITIONAL TOP AND BOTTOM BARS PLACED ADJACENT TO ACCESS HOLE.
2. MINIMUM 1" COVER ON STEEL BARS.
3. THREE LIFTING LOOPS OR HOLES.
4. MINIMUM STEEL REINFORCEMENT IN EACH DIRECTION TO BE WWF 1.06 SQ. IN./FT. IN ACCORDANCE WITH AASHTO M199 AND IDOT STANDARDS.
5. FOR "L" DIMENSION SEE STORM SEWER SCHEDULES.

**PRECAST REINFORCED CONCRETE FLAT SLAB TOP  
(IDOT STANDARD 602601)**



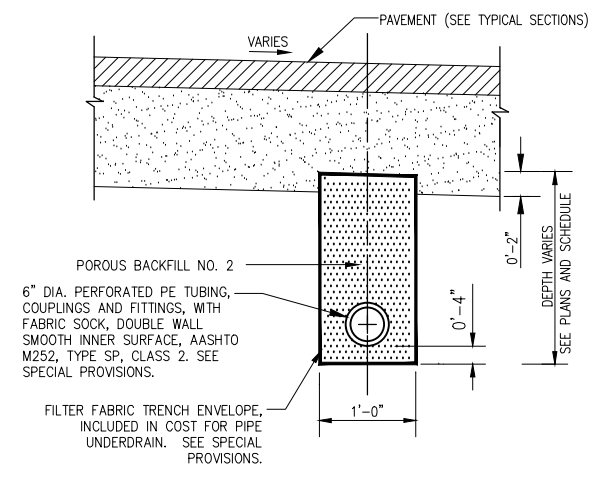
**MANHOLE DATA**

INSIDE DIA. "d" (IN.)	WALL THICKNESS "t" (IN.)	TOP THICKNESS "h" (IN.)	BOTTOM THICKNESS "b" (IN.)
48	5	6	6
60	5	8	8
72	6	8	8
108	9	8	8

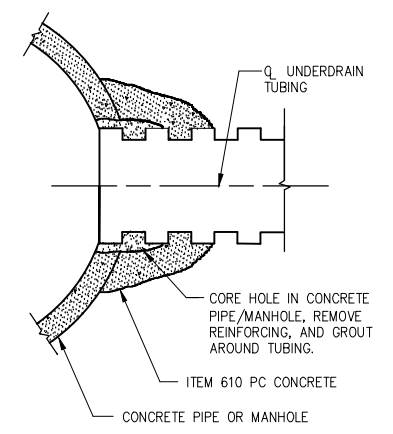
**NOTES**

1. FOR "L" DIMENSION AND FRAME AND LID INFORMATION SEE STORM SEWER SCHEDULES.
2. CENTER OF FRAME TO BE USED FOR LOCATING STRUCTURE. FOR STRUCTURE LOCATIONS AND ADDITIONAL INFORMATION SEE SCHEDULE.
3. ALL STRUCTURES TO BE PRECAST REINFORCED CONCRETE SECTIONS; BENCHES MAY BE CAST IN PLACE.
4. BLOCKOUTS FOR UNDERDRAIN CONNECTIONS SHALL BE PRECAST INTO THE STRUCTURE.

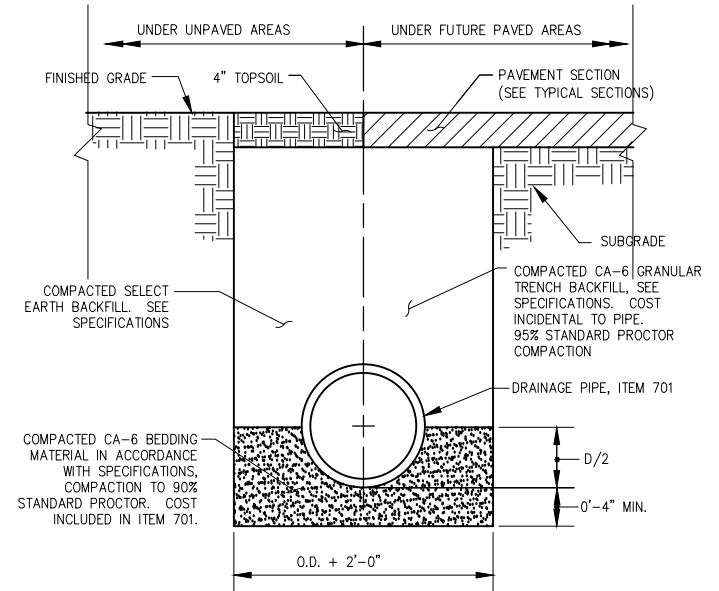
**MANHOLE WITH FLAT SLAB TOP  
(IDOT STANDARD 602401-MODIFIED)**



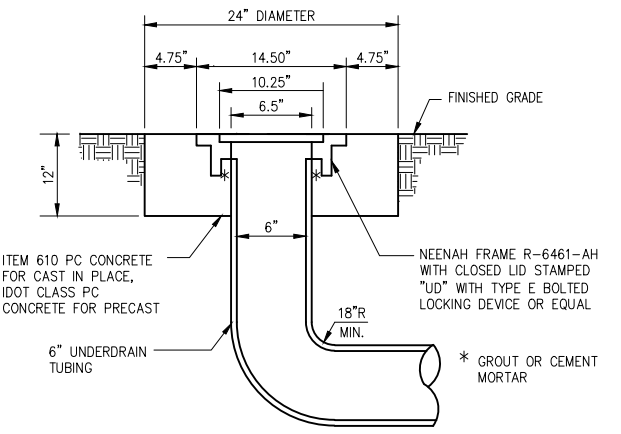
**UNDERDRAIN UNDER PAVEMENT**



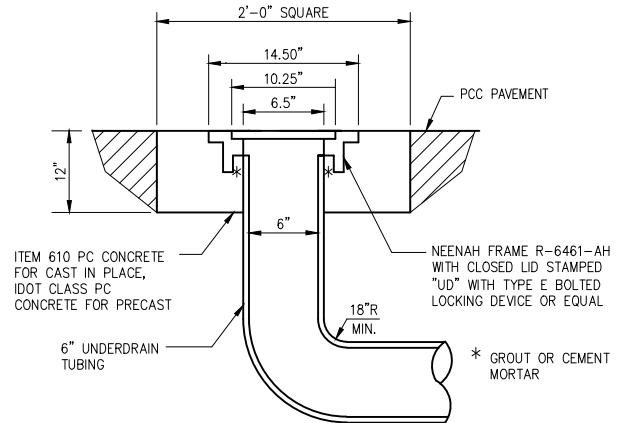
**STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION**



**PIPE TRENCH**



**UNDERDRAIN CLEANOUT ALONG PAVEMENT EDGE**



**IN-PAVEMENT UNDERDRAIN STRUCTURE**

**NOTES**

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



**REHABILITATE SOUTHEAST PORTION OF MAIN RAMP - CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

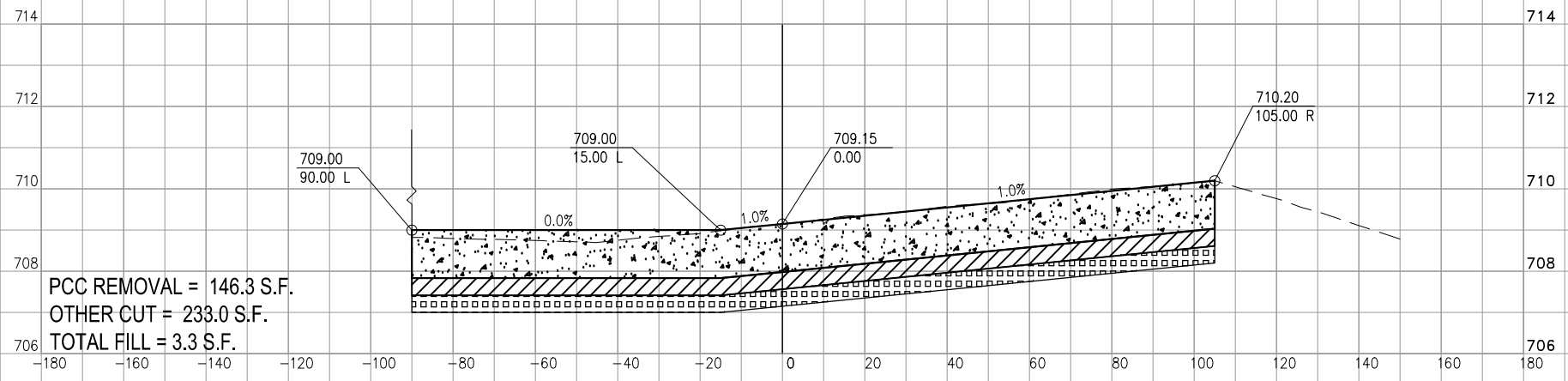
ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 17-DRAINAGE DETAILS.DWG  
DESIGN BY: KMS 1/27/2015  
DRAWN BY: KMS 1/27/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**DRAINAGE DETAILS**

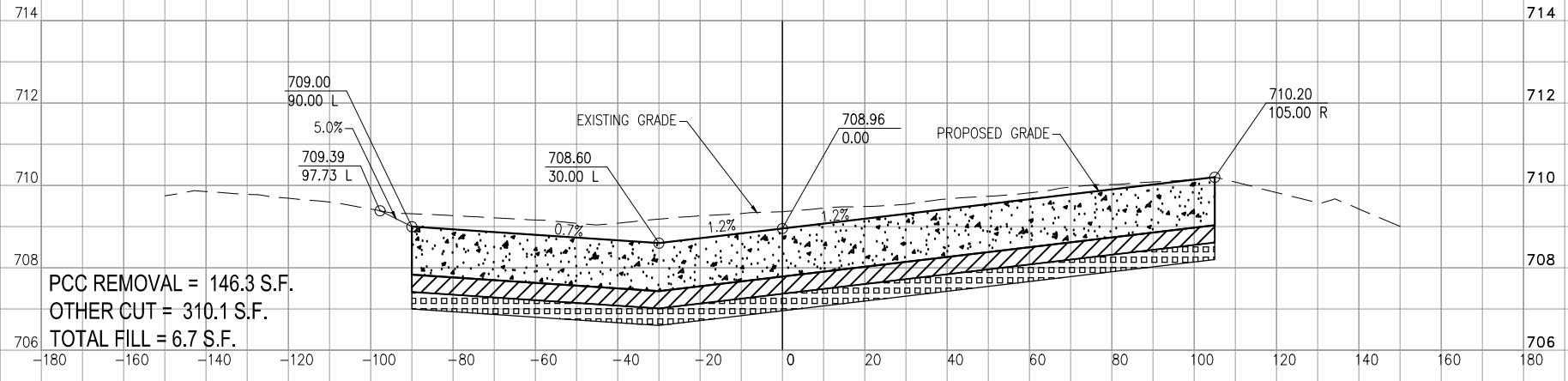
JUN 09 2015 10:09 AM HALUSM00682  
I:\14\OBS\14A0097\14A0097D\DRAWINGS\SHSHEETS\17-DRAINAGE DETAILS.DWG

Earthwork Summary		
Cut	PCC Removal	2117
	Unclassified Excavation	3881
Fill	Suitable Material for Berm	58
	Topsoil (From Off Site)	178
Remaining Cut Material for Disposal Off Site		3823
** Haul and disposal costs are incidental to Unclassified Excavation		

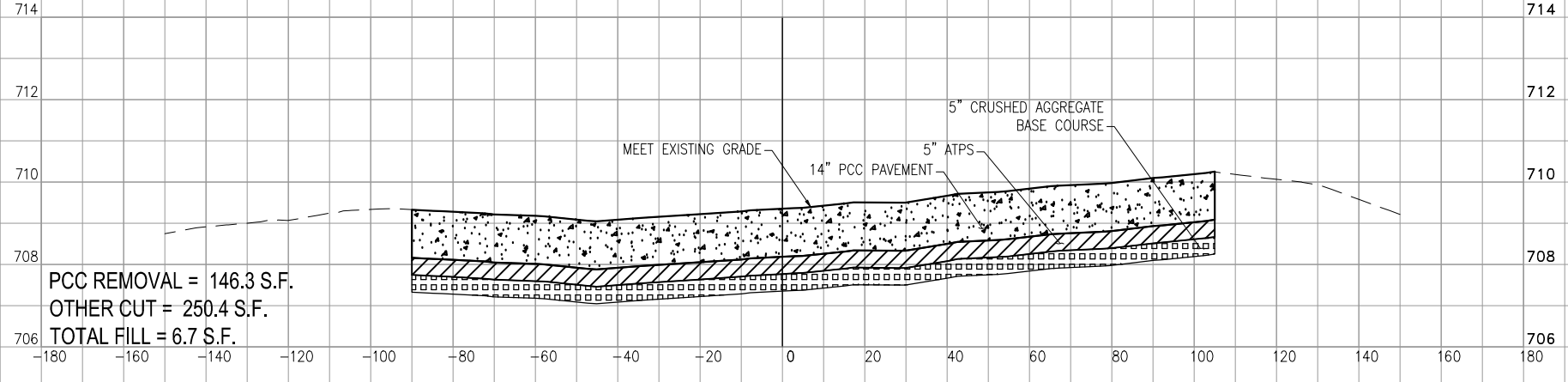
STA. 3004+52-1



STA. 3003+99



STA. 3003+12



Offices Nationwide  
www.hanson-inc.com

Hanson Professional Services Inc.  
815 Commerce Drive, Suite 200  
Oak Brook, IL 60523  
phone: 630.990.3800  
fax: 630.990.3801

Illinois Licensed  
Professional Service Corporation  
#184-001084



WAUKEGAN NATIONAL AIRPORT  
WAUKEGAN PORT DISTRICT  
2601 Plane Rest Drive  
Waukegan, Illinois 60087  
Telephone: 847.244.0055  
Fax: 847.244.3813

REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 18-CROSS SECTIONS.DWG  
DESIGN BY: KMS 2/6/2015  
DRAWN BY: KMS 2/6/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

CROSS SECTIONS

JUN 09 2015 10:10 AM HAUSM00682  
I:\14\OBS\14A0097\14A0097D\DRAWINGS\SHEETS\18-CROSS SECTIONS.DWG



**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

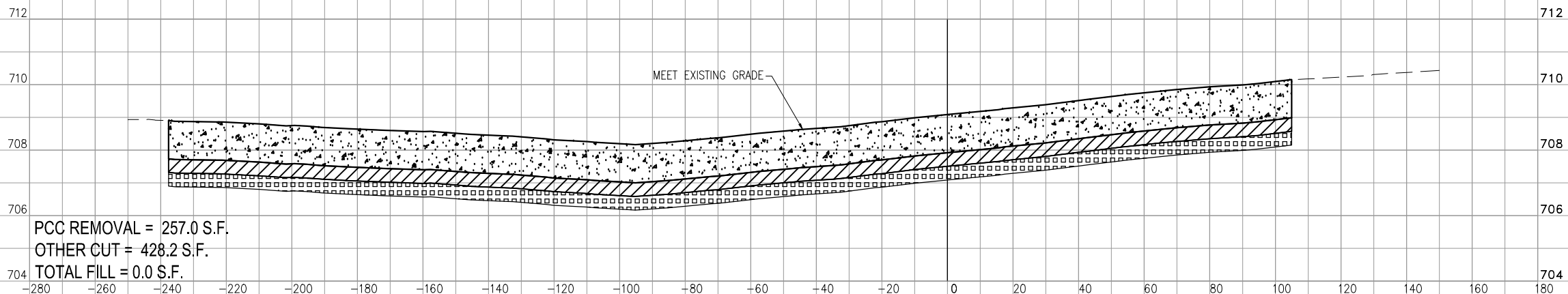
Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

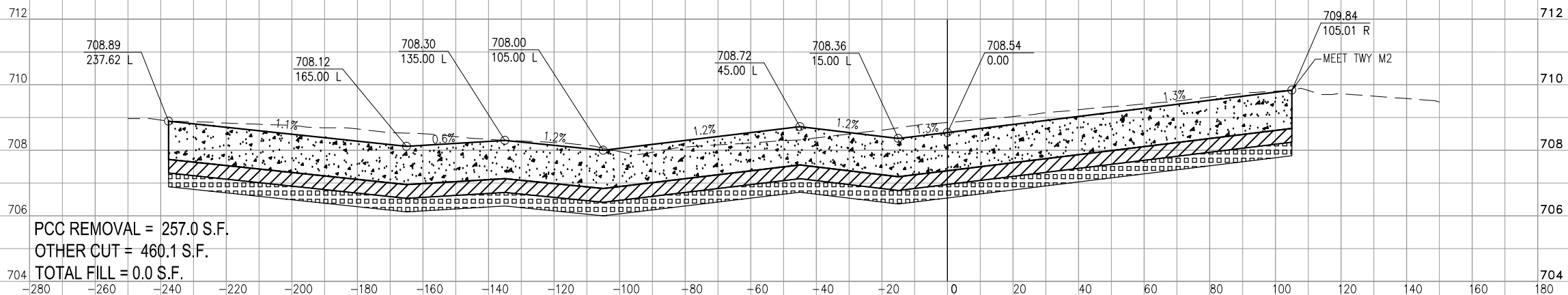
ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 19-CROSS SECTIONS.DWG  
DESIGN BY: KMS 2/6/2015  
DRAWN BY: KMS 2/6/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**CROSS SECTIONS**

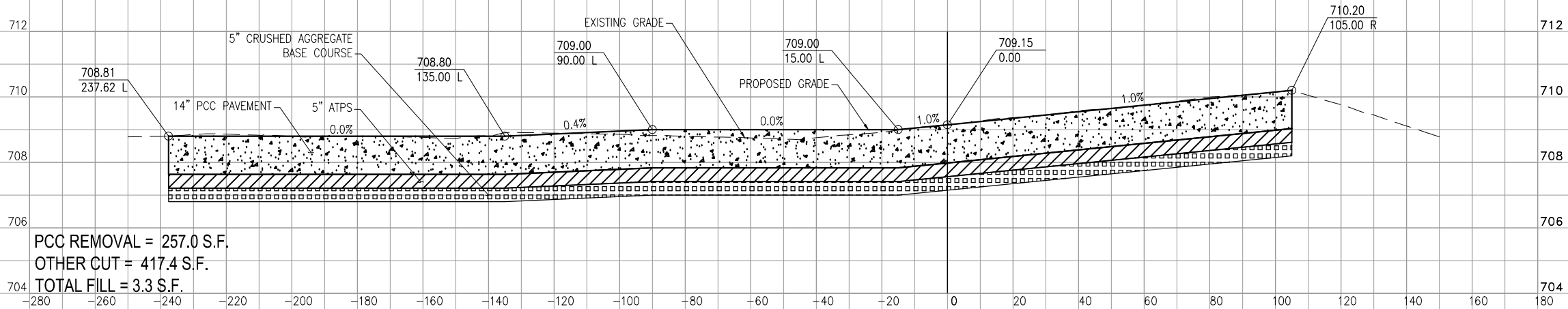
**STA. 3005+92**



**STA. 3005+39**



**STA. 3004+52-2**





REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015

PROJECT NO: 14A0097

CAD FILE: 20-CROSS SECTIONS.DWG

DESIGN BY: KMS 2/6/2015

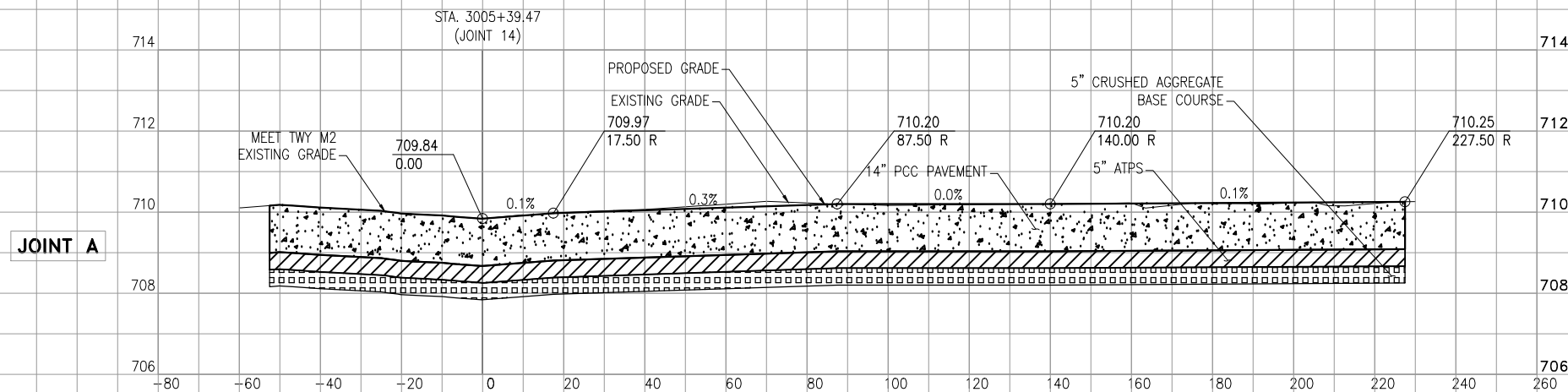
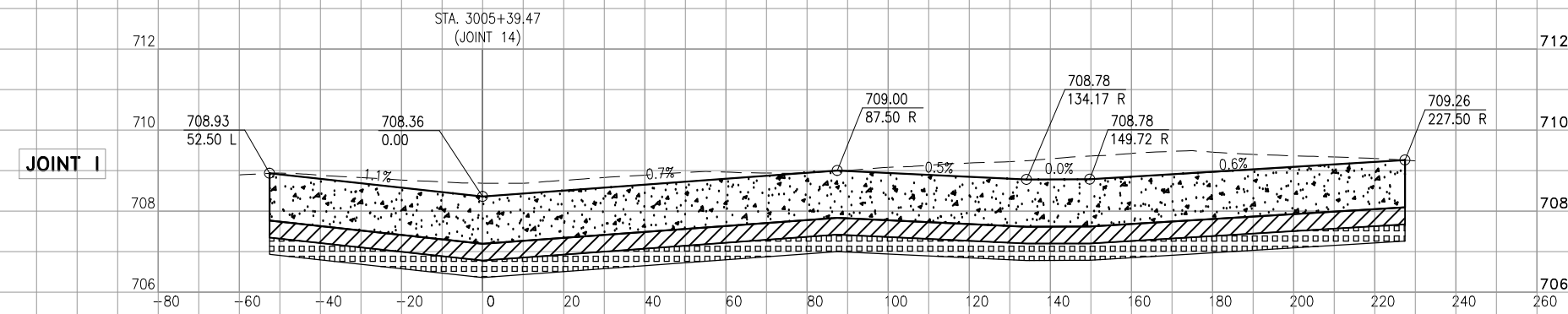
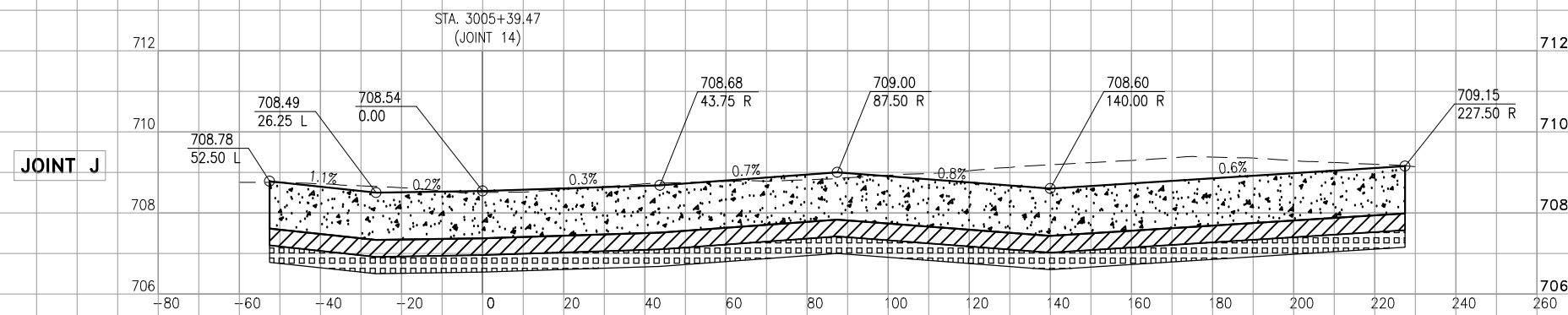
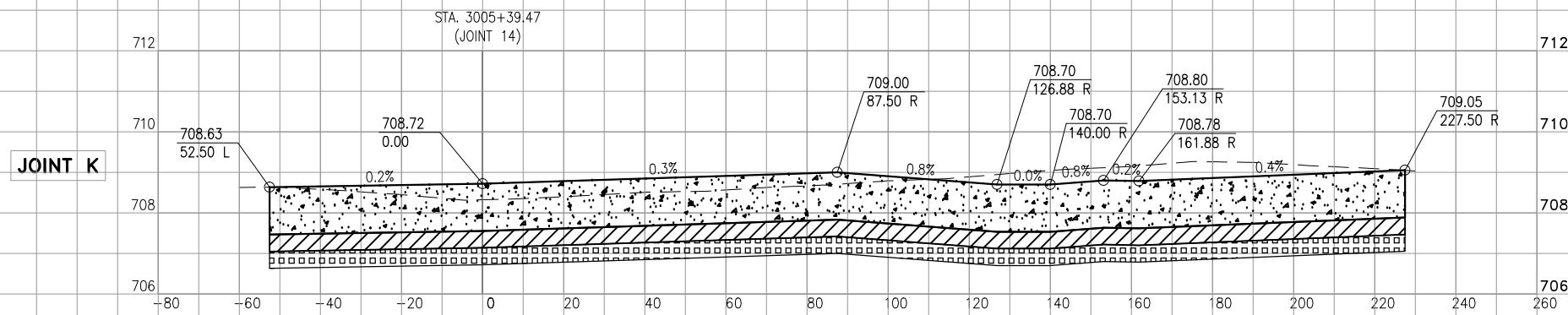
DRAWN BY: KMS 2/6/2015

REVIEWED BY: RMH 6/4/2015

© Copyright Hanson Professional Services Inc. 2013

SHEET TITLE

CROSS SECTIONS







REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015

PROJECT NO: 14A0097

CAD FILE: 21-CROSS SECTIONS.DWG

DESIGN BY: KMS 2/6/2015

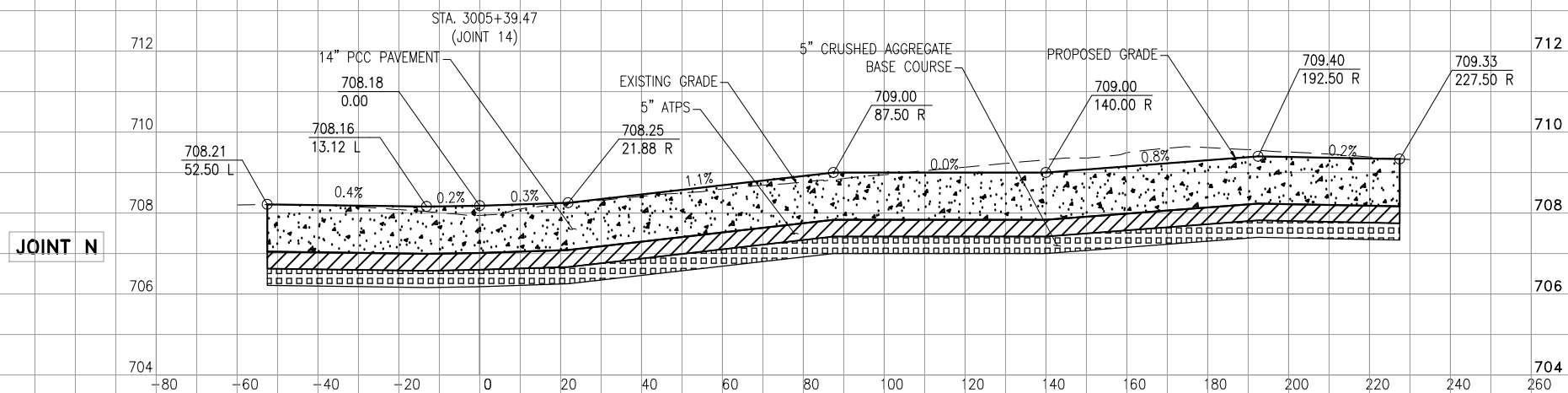
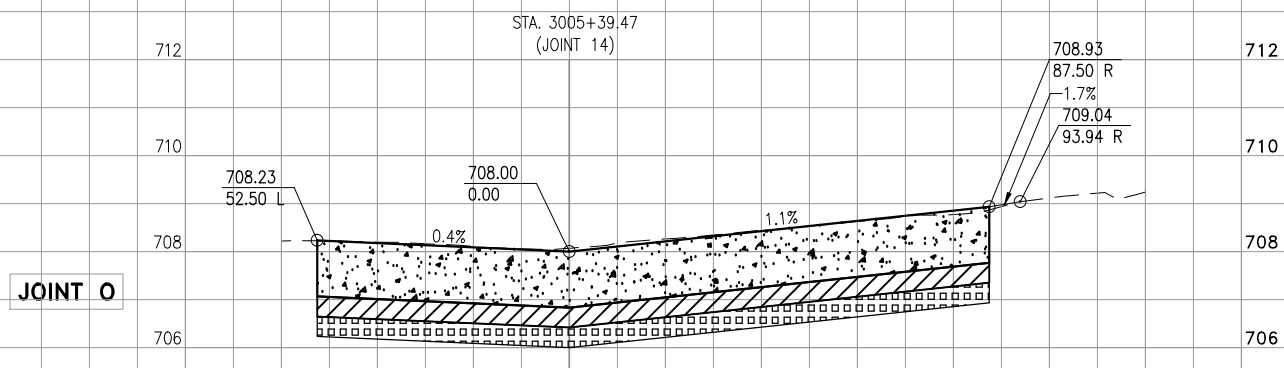
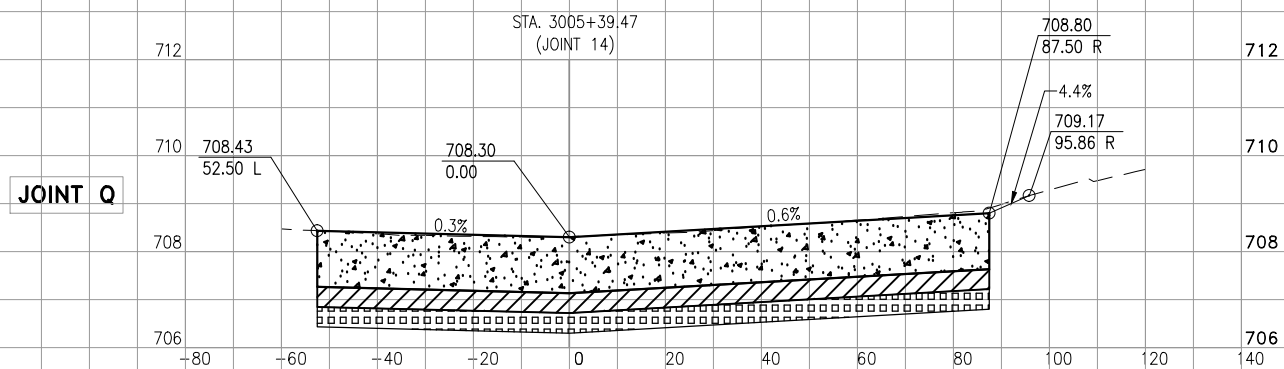
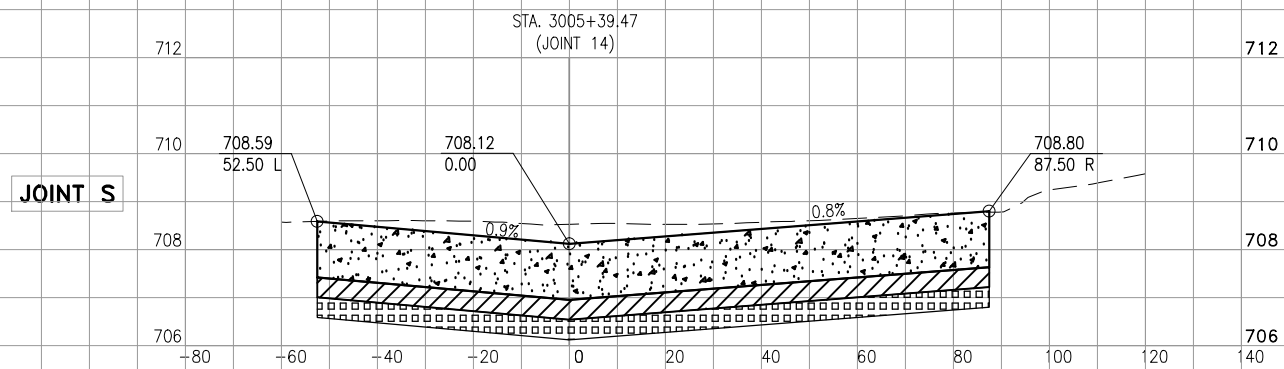
DRAWN BY: KMS 2/6/2015

REVIEWED BY: RMH 6/4/2015

© Copyright Hanson Professional Services Inc. 2013

SHEET TITLE

CROSS SECTIONS





**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

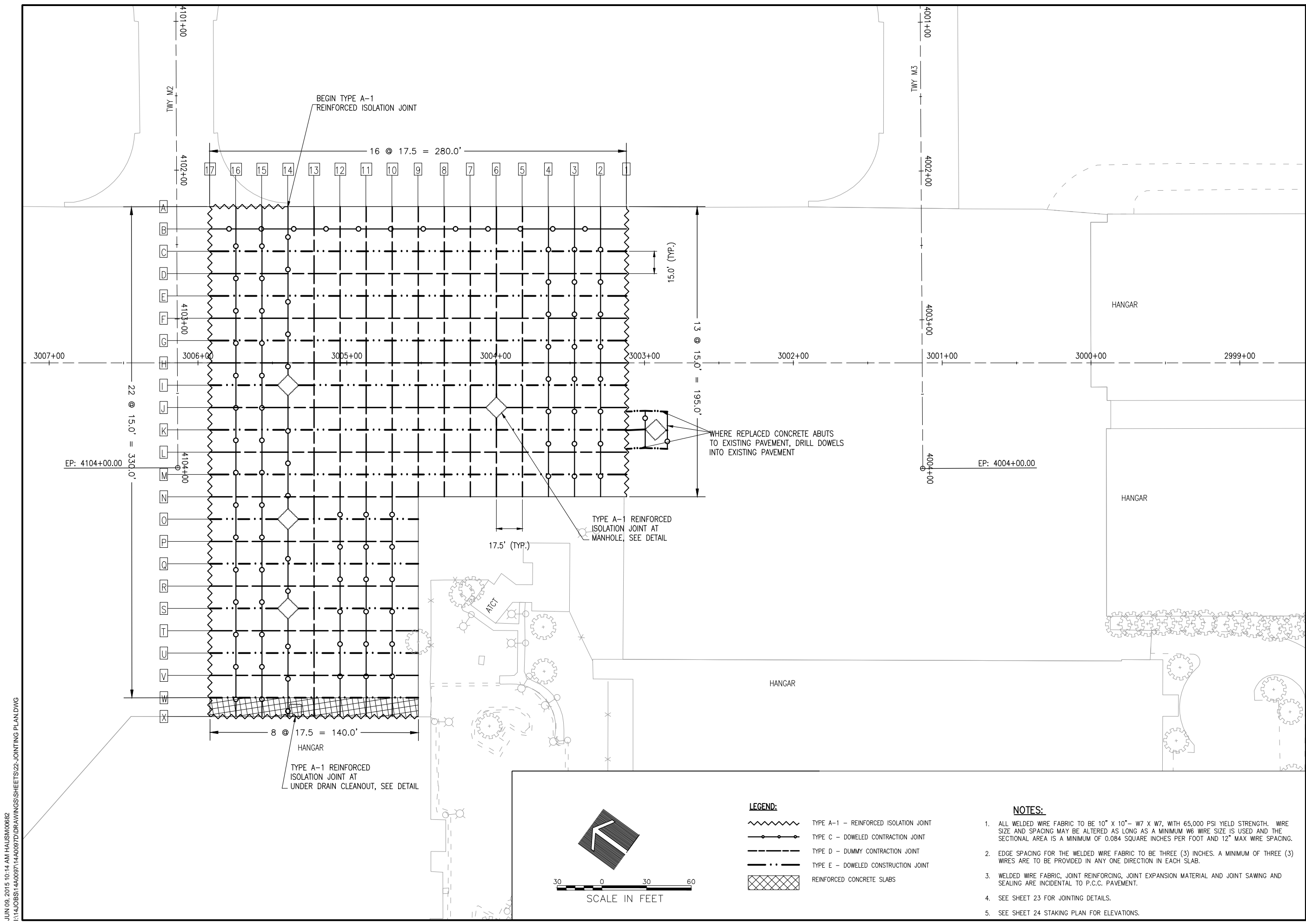
IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 22-JOINTING PLAN.DWG  
DESIGN BY: KMS 1/27/2015  
DRAWN BY: KMS 1/27/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

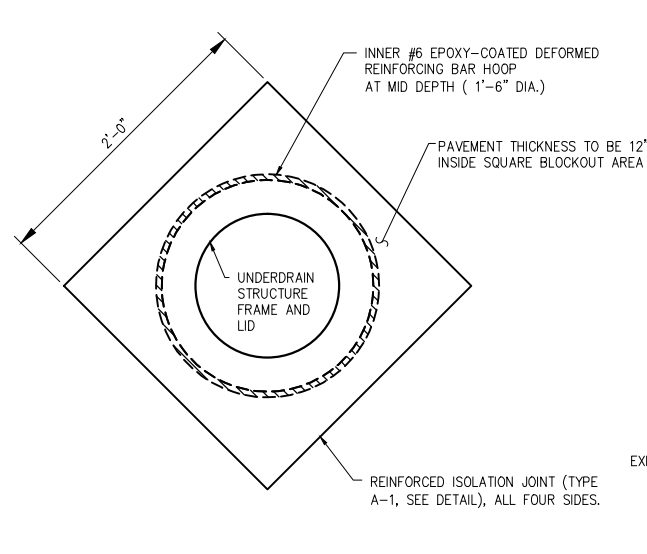
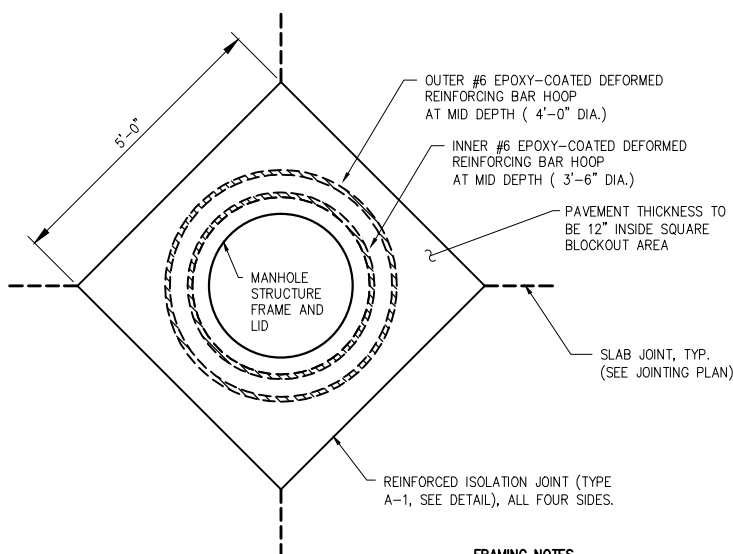
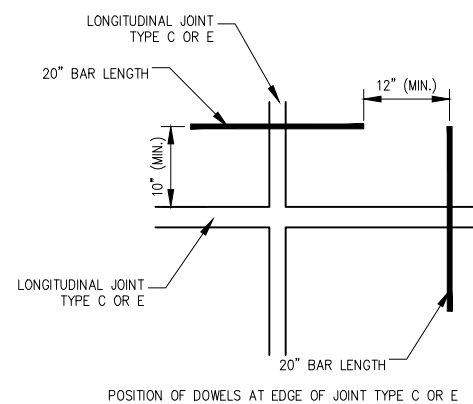
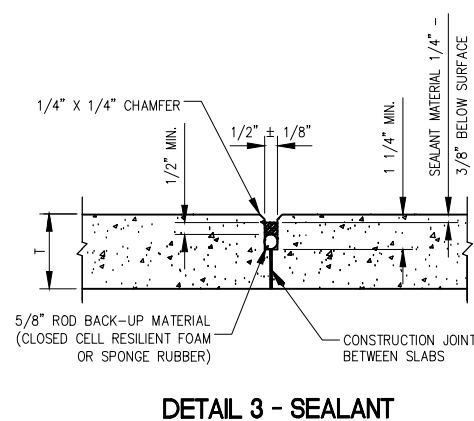
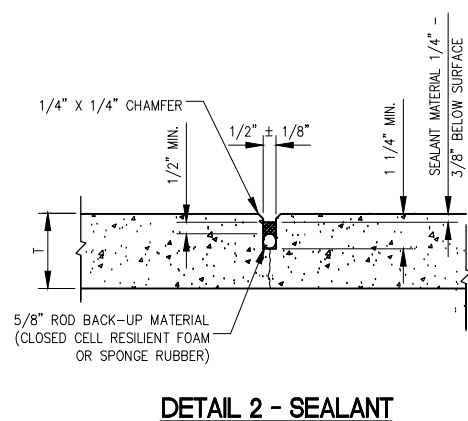
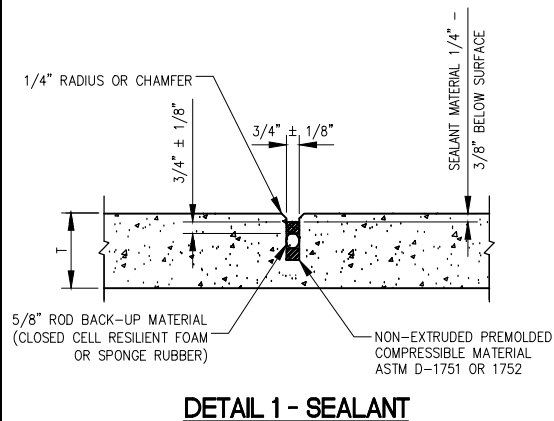
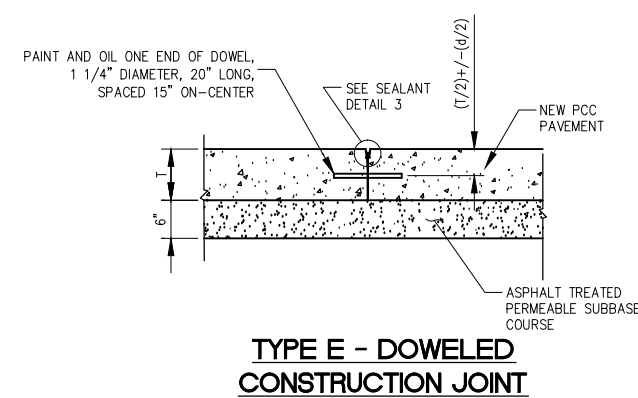
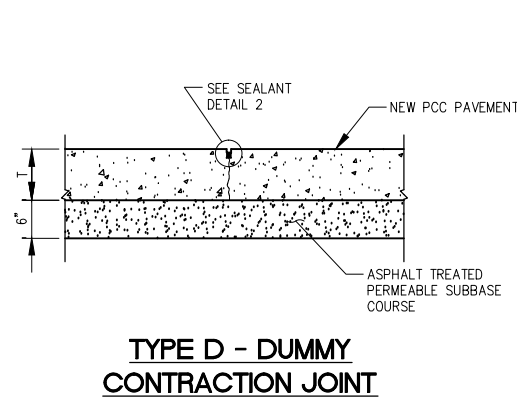
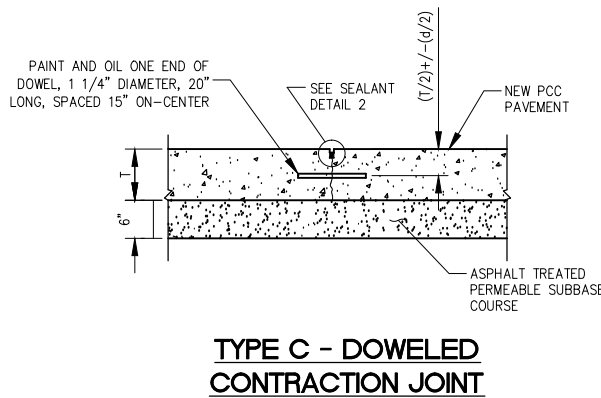
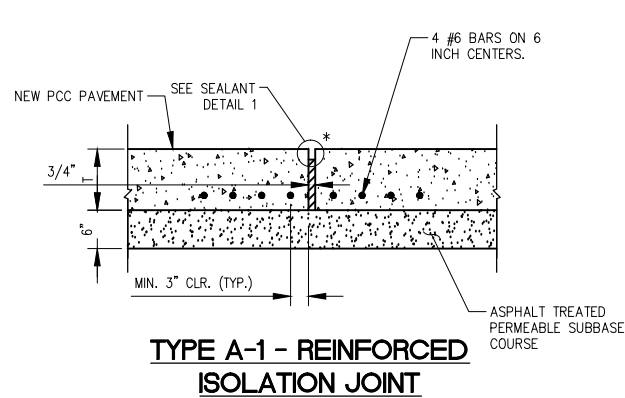
**JOINTING PLAN**



- LEGEND:**
- TYPE A-1 - REINFORCED ISOLATION JOINT
  - TYPE C - DOWELED CONTRACTION JOINT
  - TYPE D - DUMMY CONTRACTION JOINT
  - TYPE E - DOWELED CONSTRUCTION JOINT
  - REINFORCED CONCRETE SLABS

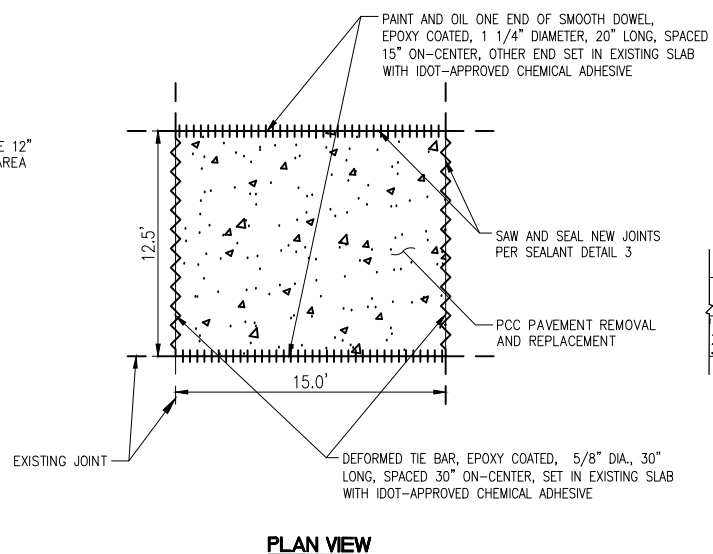
- NOTES:**
1. ALL WELDED WIRE FABRIC TO BE 10" X 10" - W7 X W7, WITH 65,000 PSI YIELD STRENGTH. WIRE SIZE AND SPACING MAY BE ALTERED AS LONG AS A MINIMUM W6 WIRE SIZE IS USED AND THE SECTIONAL AREA IS A MINIMUM OF 0.084 SQUARE INCHES PER FOOT AND 12" MAX WIRE SPACING.
  2. EDGE SPACING FOR THE WELDED WIRE FABRIC TO BE THREE (3) INCHES. A MINIMUM OF THREE (3) WIRES ARE TO BE PROVIDED IN ANY ONE DIRECTION IN EACH SLAB.
  3. WELDED WIRE FABRIC, JOINT REINFORCING, JOINT EXPANSION MATERIAL AND JOINT SAWING AND SEALING ARE INCIDENTAL TO P.C.C. PAVEMENT.
  4. SEE SHEET 23 FOR JOINTING DETAILS.
  5. SEE SHEET 24 STAKING PLAN FOR ELEVATIONS.

JUN 09 2015 10:14 AM HAUSM00682  
I:\14\JOBS\14A0097\14A0097D\DRAWINGS\SHSHEETS\22-JOINTING PLAN.DWG



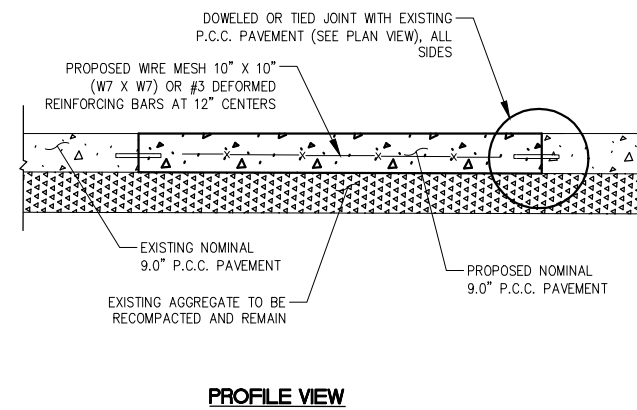
**FRAMING NOTES**

- HOOP REINFORCEMENT REQUIRED AND SHALL BE ONE PIECE CONSTRUCTION HAVING A MINIMUM LAP LENGTH OF 2'-0".



**PLAN VIEW**

NOTE: ALL WORK PAID UNDER ITEM AR501910



**PROFILE VIEW**

**JOINTING AND REINFORCING AT IN PAVEMENT MANHOLES AND UNDERDRAIN CLEANOUTS**

**PCC PAVEMENT REMOVAL AND REPLACEMENT**

**REHABILITATE SOUTHEAST PORTION OF MAIN RAMP - CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV
ISSUE: June 5, 2015				
PROJECT NO: 14A0097				
CAD FILE: 23-JOINTING DETAILS.DWG				
DESIGN BY: KMS 1/27/2015				
DRAWN BY: KMS 1/27/2015				
REVIEWED BY: RMH 6/4/2015				
© Copyright Hanson Professional Services Inc. 2013				
SHEET TITLE				

**JOINTING DETAILS**



**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069


NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 24-STAKING PLAN.DWG  
DESIGN BY: KMS 2/3/2015  
DRAWN BY: KMS 2/3/2015  
REVIEWED BY: RMH 6/4/2015

© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**STAKING PLAN**

JUN 09 2015 10:15 AM HAUSM00682  
I:\14\OBS\14A0097\14A0097\DRAWINGS\SHEETS\24-STAKING PLAN.DWG





**REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1**

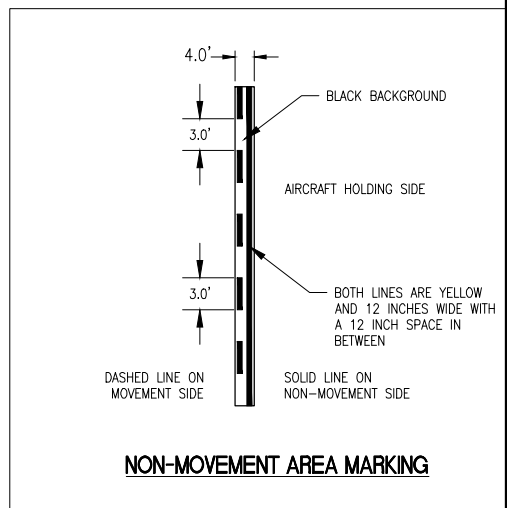
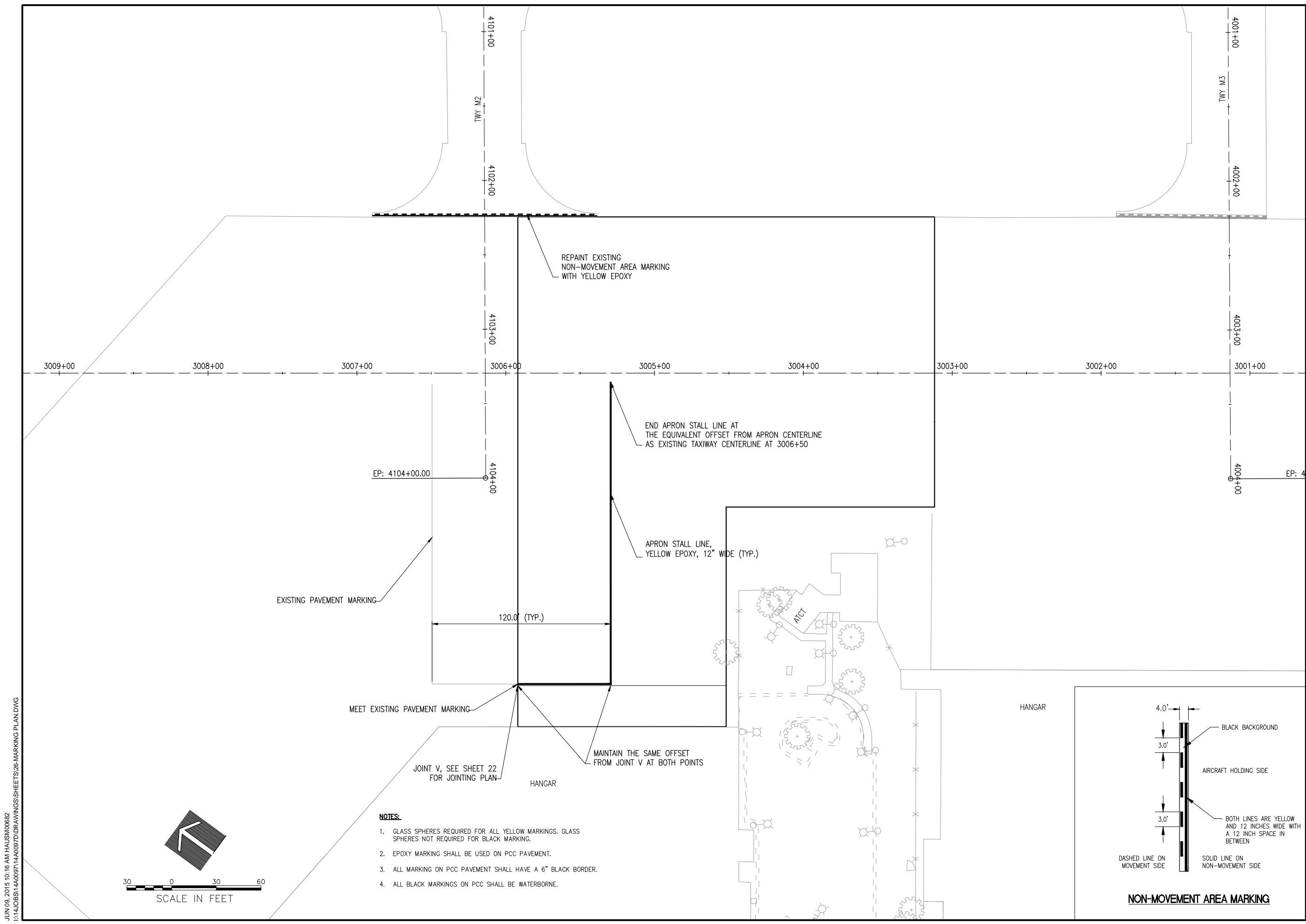
IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 26-MARKING PLAN.DWG  
DESIGN BY: KMS 2/6/2015  
DRAWN BY: KMS 2/6/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

**MARKING PLAN**



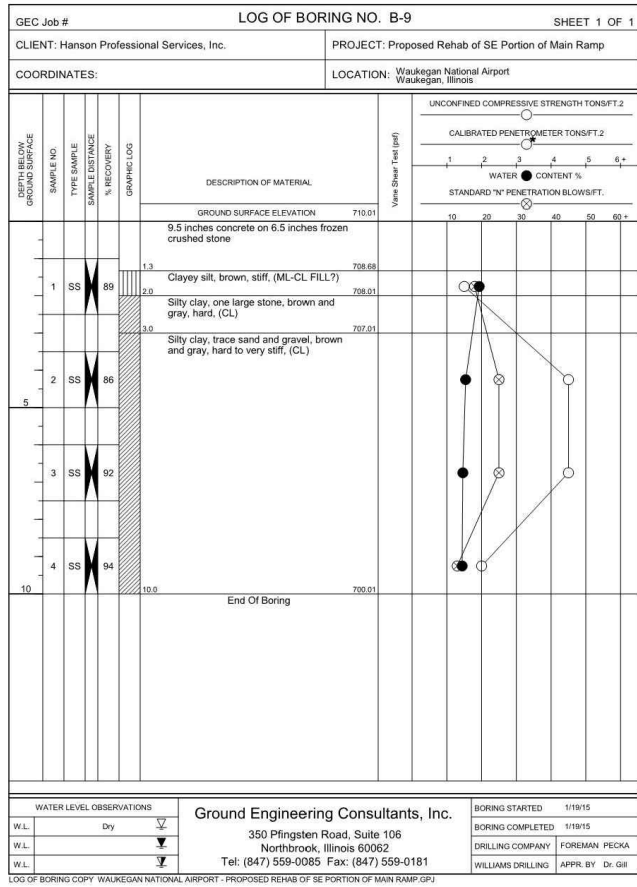
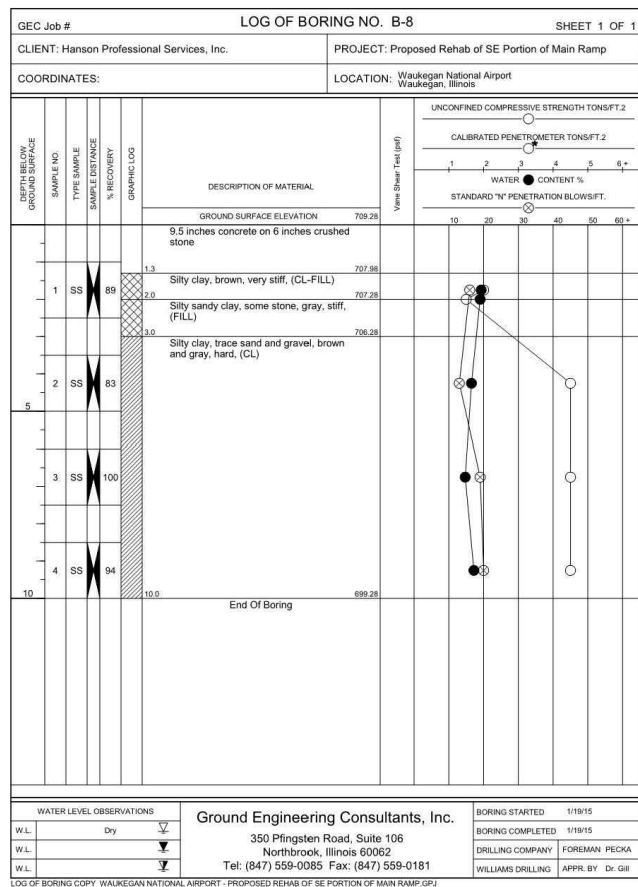
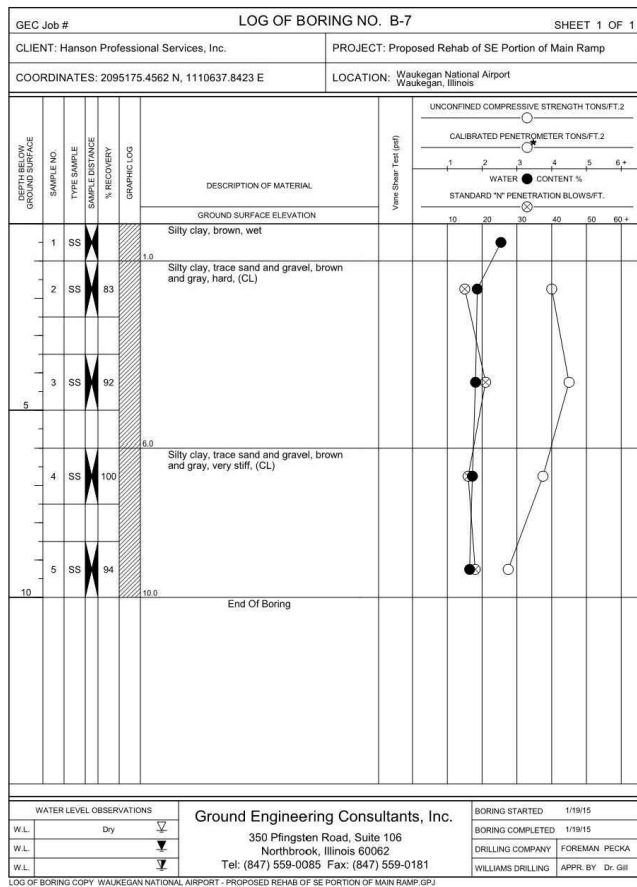
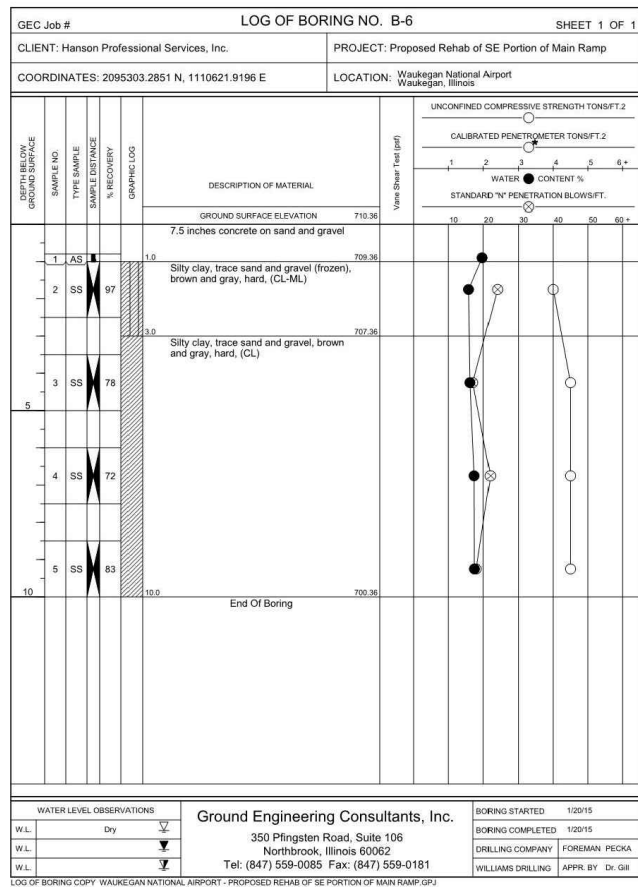
JUN 09 2015 10:16 AM HAUSM00682 1314JOBS14A009714A0097DRAWS\GSHS\26-MARKING PLAN.DWG











REHABILITATE  
SOUTHEAST PORTION  
OF MAIN RAMP -  
CONTRACT 1

IDA No: UGN-4256  
SBG No: 3-17-SBGP-TBD

Contract No: WA069

NO.	DATE	DESCRIPTION		
		DES	DWN	REV

ISSUE: June 5, 2015  
PROJECT NO: 14A0097  
CAD FILE: 30-BORING LOGS.DWG  
DESIGN BY: KMS 3/16/2015  
DRAWN BY: KMS 3/16/2015  
REVIEWED BY: RMH 6/4/2015  
© Copyright Hanson Professional Services Inc. 2013  
SHEET TITLE

BORING LOGS  
B6 THRU B9