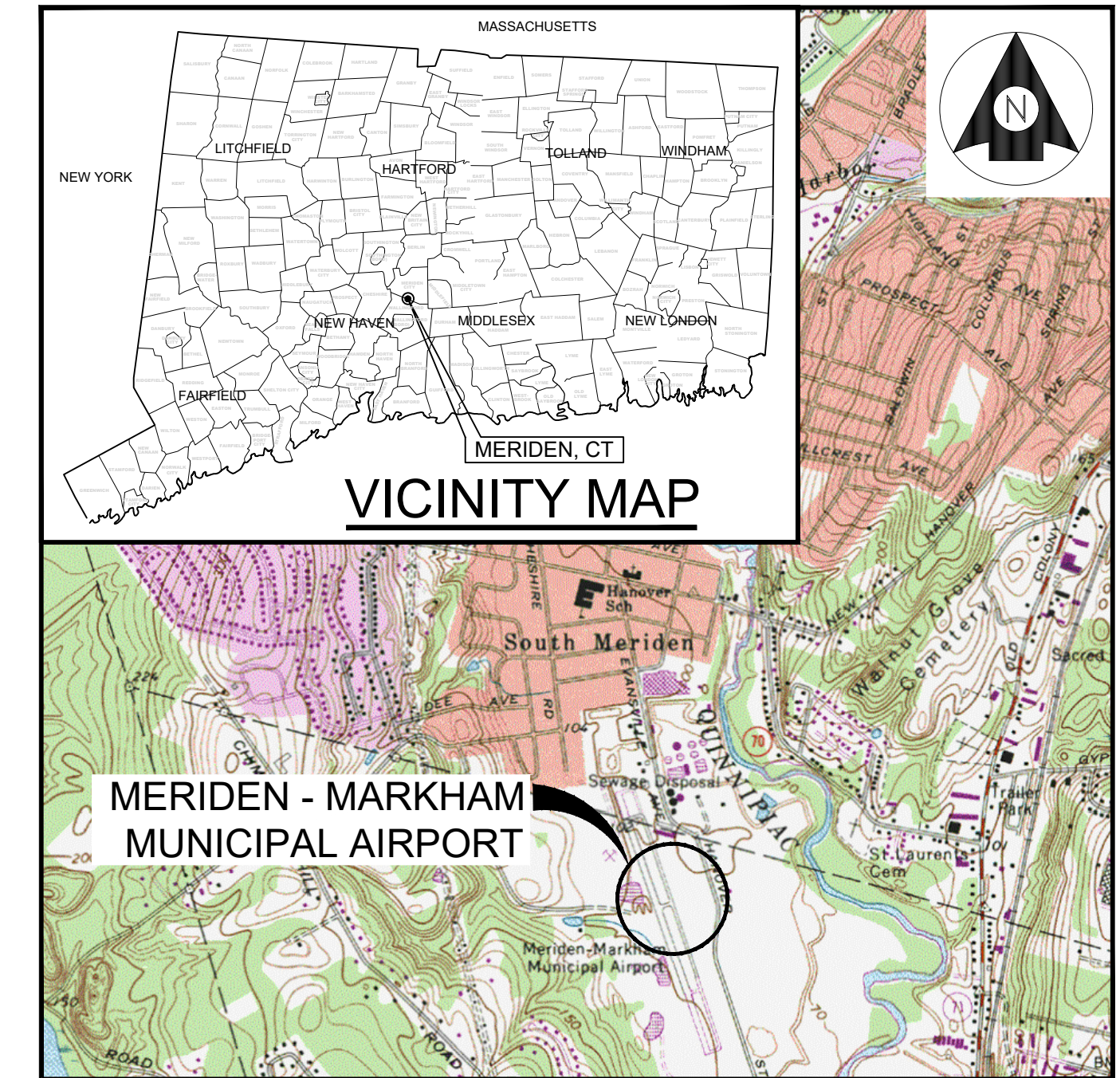


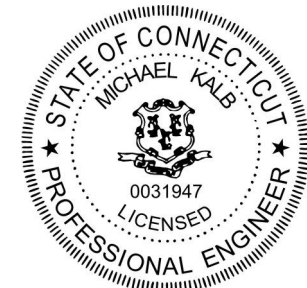
Meriden-Markham Municipal Airport City of Meriden, Connecticut

Contract Plans For:

CONSTRUCT 4-UNIT HANGAR



PROJECT LOCATION MAP
NOT TO SCALE



INDEX OF DRAWINGS

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City of Meriden Contract No. B024-50
FAA AIP No. 3-09-0012-xxx-2024
FAA BIL/AIG No. 3-09-0012-xxx-2024
Stantec Project No. 179450845
APRIL 4, 2024

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS REFERENCED THEREIN.
- THE PROJECT SHALL BE CONSTRUCTED IN A TIMELY MANNER IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PROJECT SCHEDULE. THE SCHEDULE SHALL PROVIDE FOR COMPLETION OF THE WORK AS SHOWN ON THE PLANS AND DESCRIBED IN THE CONTRACT SPECIFICATIONS.
- MERIDEN-MARKHAM MUNICIPAL AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. ADVANCED COORDINATION OF ALL WORK WITH THE AIRPORT MANAGER AND THE RPR IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
- CONTRACTOR'S STAGING AREA - AN AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE. THE CONTRACTOR'S STAGING AREA SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION UPON COMPLETION OF USE, AT THE CONTRACTOR'S EXPENSE.
- EXISTING AIRFIELD LIGHTING SYSTEMS - INTERRUPTION OF EXISTING AIRFIELD LIGHTING SYSTEMS NOT INCLUDED IN THIS PROJECT SHALL NOT BE PERMITTED. ALL AIRFIELD LIGHTING CIRCUITS AFFECTED BY THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR DURING OPERATIONAL PERIODS IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR AS DIRECTED BY THE RPR.
- ALL MATERIALS AND EQUIPMENT WHEN NOT IN USE SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS AND NOT PENETRATE CLEARANCE SURFACES. ALL EQUIPMENT SHALL BE PARKED AT THE STAGING AREA WHEN NOT IN USE.
- FOR EMERGENCIES INVOLVING SAFETY (INJURIES, FIRES, SECURITY BREACHES, ETC.) THE CONTRACTOR SHALL MAKE DIRECT CONTACT WITH THE AIRPORT MANAGER (203) 630-2878 FOLLOWED BY NOTIFICATION TO THE RPR AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT WHO MAY BE CONTACTED IN AN EMERGENCY. PERSONNEL SHALL BE ON-CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.
- IN ACCORDANCE WITH THE SPECIFICATIONS, LABOR WAGE RATES SHALL BE POSTED ON SITE IN A WEATHERPROOF ENCLOSURE.

CONSTRUCTION SAFETY NOTES

- ALL CONSTRUCTION FOR THIS PROJECT SHALL CONFORM TO THE GUIDELINES SET FORTH IN FEDERAL AVIATION ADMINISTRATION (FAA) AC150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", AND THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH A SPCD (SAFETY PLAN COMPLIANCE DOCUMENT) WITHIN FIVE (5) DAYS PRIOR TO THE ISSUANCE OF A NOTICE TO PROCEED. THE CONTRACTOR SHALL BECOME KNOWLEDGEABLE OF THE REQUIREMENTS AND PROCEDURES OF FAA ADVISORY CIRCULAR 150/5370-2G AND THE CSPP, AND INCORPORATE THESE ITEMS IN TO THE SPCD.
- THE CONTRACTOR SHALL ACQUAINT ITS SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT ITS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
- CONSTRUCTION ACTIVITIES ARE NOT PERMITTED WITHIN THE SAFETY AREA/OBJECT FREE AREA OF AN ACTIVE RUNWAY, TAXIWAY OR APRON TAXILANE WITHOUT THE APPROVAL OF THE AIRPORT MANAGER.
- IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN THE AIR OPERATIONS AREA (AOA), APPROPRIATE NOTICES TO AIRMEN (NOTAMS) MUST BE ISSUED BY THE AIRPORT MANAGER THROUGH THE FAA FLIGHT SERVICE STATION. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 48-HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE NOTAM. ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED WITH THE AIRPORT MANAGER FOR NOTAM ISSUANCE. ONCE ALL NOTAMS ARE IN PLACE THE CONTRACTOR SHALL SET UP CONSTRUCTION SAFETY DEVICES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION SIGNS AND BARRICADES.
- ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE WITHIN THE SECURITY FENCE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3' x 3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLES SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS.
- THE CONTRACTOR SHALL NOT PERMIT SMOKING OR OPEN FLAMES ON ANY PORTION OF THE AIRFIELD.
- ONLY RUBBER-TIRED VEHICLES SHALL BE ALLOWED ON EXISTING PAVEMENT THAT IS TO REMAIN.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND CONDITIONS IN EXCESS OF 10 KNOTS.
- CONTRACTOR GENERATED DEBRIS, WASTE, AND LOOSE MATERIAL (INCLUDING DUST AND DIRT) CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR OR PROPELLERS, OR BEING INGESTED IN JET ENGINES, SHALL NOT BE ALLOWED ON ACTIVE AIRCRAFT MOVEMENT AREAS OR ADJACENT GRASSED AREAS. MATERIALS OBSERVED TO BE WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- CONTRACTOR ACCESS TO AIRFIELD PAVEMENTS OUTSIDE OF THE PROJECT WORK LIMITS IS STRICTLY PROHIBITED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SIGNING IN ACCORDANCE WITH MUTCD AND FLAGMAN AS REQUIRED FOR ALL OPERATIONS INCLUDING EQUIPMENT ENTERING & LEAVING ADJACENT ROADWAYS.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES WHEREVER OPEN EXCAVATIONS OR IRREGULAR GRADES ARE LEFT WITHIN THE SAFETY AREA OF AN ACTIVE TAXIWAY OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT.

- THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
- PROTECTION OF ALL PERSONS SHALL BE PROVIDED THROUGHOUT THE PROGRESS OF THE WORK. THE WORK SHALL PROCEED IN SUCH A MANNER AS TO PROVIDE SAFE CONDITIONS FOR ALL WORKERS INCLUDING AIRPORT PERSONNEL AND THE RPR. THE SEQUENCE OF OPERATIONS SHALL BE SUCH THAT MAXIMUM PROTECTION IS AFFORDED TO INSURE THAT PERSONNEL AND WORKERS IN THE WORK AREA ARE NOT SUBJECT TO ANY DANGEROUS CONDITIONS.
- DURING PERFORMANCE OF THIS CONTRACT, THE AIRPORT RUNWAY, TAXIWAYS, FUELING AREAS, AND AIRCRAFT PARKING APRONS SHALL REMAIN IN USE BY AIRCRAFT TO THE MAXIMUM EXTENT POSSIBLE. ALL AIRCRAFT TRAFFIC ON THESE AREAS SHALL HAVE PRIORITY OVER CONTRACTOR'S TRAFFIC. THE AIRPORT MANAGER RESERVES THE RIGHT TO ORDER THE CONTRACTOR AT ANY TIME TO VACATE ANY AREA NECESSARY TO MAINTAIN SAFE AIRCRAFT OPERATIONS. USE OF AREAS NEAR THE CONTRACTOR'S WORK WILL BE CONTROLLED TO MINIMIZE DISTURBANCE TO THE CONTRACTOR'S OPERATION. THE CONTRACTOR SHALL NOT ALLOW EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER UNAUTHORIZED PERSON TO ENTER OR REMAIN IN ANY AIRPORT AREA WHICH WOULD BE HAZARDOUS TO PERSONS OR TO AIRCRAFT OPERATIONS.
- THE FOLLOWING ARE CONSIDERED SAFETY CONCERNS AND/OR HAZARDS:
 - TRENCHES, HOLES, OR EXCAVATION ON OR ADJACENT TO ANY OPEN RUNWAY OR IN RUNWAY OR TAXIWAY SAFETY AREAS.
 - UNMARKED/UNLIGHTED HOLES OR EXCAVATION IN ANY APRON, OPEN TAXIWAY, OPEN TAXILANE, OR RELATED SAFETY AREA.
 - MOUNDS OR PILES OF EARTH, CONSTRUCTION MATERIALS, TEMPORARY STRUCTURES, OR OTHER OBJECTS IN THE VICINITY OF ANY OPEN RUNWAY, TAXIWAY, TAXILANE, OR IN ANY RELATED SAFETY, APPROACH, OR DEPARTURE AREA.
 - VEHICLES OR EQUIPMENT, WHETHER OPERATING OR IDLE, ON ANY OPEN RUNWAY, TAXIWAY, TAXILANE OR IN ANY RELATED SAFETY, APPROACH, OR DEPARTURE AREA.
 - VEHICLES, EQUIPMENT, EXCAVATION, STOCKPILES, OR OTHER MATERIALS WHICH COULD INTERFERE WITH ELECTRONIC SIGNALS FROM RADIOS OR ELECTRONIC NAVIGATIONAL AIDS (NAVAIDS).
 - PAVEMENT DROP-OFFS - LIPS (EITHER PERMANENT OR TEMPORARY) WHICH COULD CAUSE DAMAGE TO AIRCRAFT IF CROSSED AT NORMAL OPERATING SPEEDS. THE NORMAL MAXIMUM DROP-OFF OR LIP IS 1-1/2 INCHES.
 - UNMARKED UTILITY, NAVAID, WEATHER SERVICE, RUNWAY LIGHTING, OR OTHER POWER OR SIGNAL CABLES THAT COULD BE DAMAGED DURING CONSTRUCTION.
 - OBJECTS, WHETHER OR NOT MARKED OR FLAGGED, OR ACTIVITIES ANYWHERE ON OR IN THE VICINITY OF THE AIRPORT WHICH COULD BE DISTRACTING, CONFUSING, OR ALARMING TO PILOTS DURING AIRCRAFT OPERATIONS.
 - UNFLAGGED/UNLIGHTED LOW VISIBILITY ITEMS SUCH AS TALL CRANES, DRILLS, AND THE LIKE ANYWHERE IN THE VICINITY OF ACTIVE RUNWAY, OR IN ANY APPROACH OR DEPARTURE AREA.
- THE CONTRACTOR SHALL CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY STANDARDS CONTAINED HEREIN. THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTEN AS NECESSARY AND PROMPTLY TAKE ALL STEPS NECESSARY TO PREVENT/REMEDY ANY UNSAFE OR POTENTIALLY UNSAFE CONDITIONS OR ACTIVITIES DISCOVERED.

UNDERGROUND UTILITY NOTES

- THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE CONSIDERED TO BE ONLY ESTIMATED LOCATIONS. ALL UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- PROTECTION OF EXISTING AIRPORT UNDERGROUND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATION OF THESE UTILITIES MUST BE VERIFIED BY THE CONTRACTOR. REPAIR OF CABLES DAMAGED DUE TO CONTRACTOR'S OPERATIONS MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETED. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE AT THE CONTRACTOR'S EXPENSE. WHEN FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF AN FAA REPRESENTATIVE. THE FAA MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COST OF REPAIRS.
- AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE RPR AND THE OWNER OF EACH UNDERGROUND UTILITY FACILITY AFFECTED.
- AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 FOR ASSISTANCE IN LOCATING UNDERGROUND UTILITIES.

SURVEY NOTES

- THIS SURVEY HAS BEEN PREPARED BY FREEMAN COMPANIES, LLC. IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996
 - THIS PLAN CONFORMS TO TOPOGRAPHIC ACCURACY CLASS T-2.
 - THE TYPE OF SURVEY PERFORMED IS A LIMITED TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT EXISTING CONDITIONS WITHIN THE AREA SHOWN.
- NORTH ARROW AND BEARINGS REFER TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD83 AND IS BASED UPON GPS OBSERVATIONS PERFORMED BY FREEMAN COMPANIES, LLC.
- ELEVATIONS REFER TO NAVD88 AND ARE BASED ON GPS OBSERVATIONS PERFORMED BY FREEMAN COMPANIES, LLC.
- THE UNDERGROUND FEATURES DEPICTED HEREON ARE THE RESULT OF COMPILATION OF EXISTING MAPPING AND LOCATION OF VISIBLE EVIDENCE. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN. VERIFY INFORMATION IN THE FIELD BEFORE ANY DIGGING OR SITE EXCAVATION CALL, "CALL BEFORE YOU DIG" 1800-922-4455.



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Notes

Revision	By	Appd	YYYY.MM.DD
Issued for Bid	CAM	PVE	2024.04.04
Issued	By	Appd	YYYY.MM.DD
File Name: 50845_001_GENERAL NOTES	CAM	PVE	PVE
	Dwn.	Dsgn.	Chkd.
			YYYY.MM.DD

Permit/Seal



Client/Project Logo



Client/Project

Meriden-Markham Municipal Airport

CONSTRUCT 4 - UNIT HANGARS







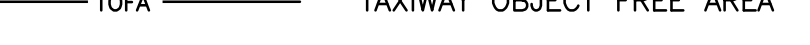
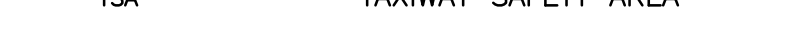
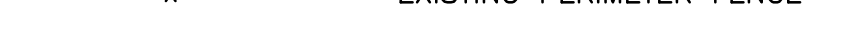
Meriden, CT

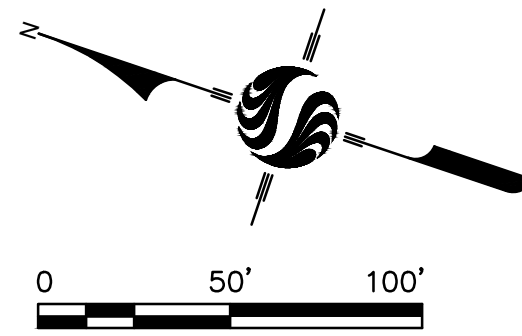
Title

GENERAL NOTES

Project No.	Scale
179450845	AS SHOWN
Revision	Sheet
0	2 of 14
C-001	

LEGEND

-  CONSTRUCTION ACCESS ROUTE
-  LOW PROFILE BARRICADE
-  WEIGHTED TRAFFIC CONE
-  CONTRACTOR STAGING AREA
-  PHASE 1
-  APPROXIMATE CITY/TOWN LINE
-  TOFA TAXIWAY OBJECT FREE AREA
-  TSA TAXIWAY SAFETY AREA
-  EXISTING PERIMETER FENCE



I. PHASE I:

PHASE I SHALL CONSIST OF MINOR GRADING AND DRAINAGE, INSTALLATION OF HANGAR FOUNDATIONS, ERECTION OF HANGAR, INSTALLATION OF HANGAR DOORS, ELECTRICAL HOOK UPS, PLACEMENT AND COMPACTION OF CRUSHED AGGREGATE BASE COURSE AND SITE RESTORATION/TURF ESTABLISHMENT.

ASPHALT PAVING OF HANGAR APRON TO BE COMPLETED BY OTHERS.

II. CLOSURES:

- NONE
- HANGAR TAXILANE EAST WILL REMAIN OPEN

III. SCHEDULE:

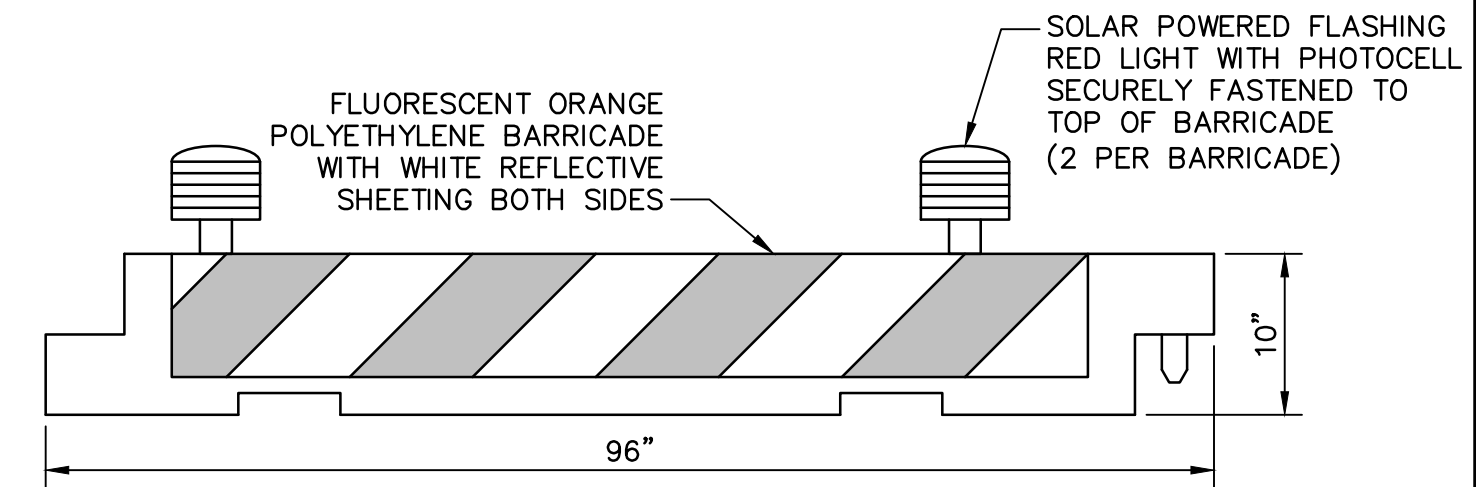
- UPON THE ISSUANCE OF A NOTICE TO PROCEED, THE TOTAL CONSTRUCTION DURATION FOR PHASE I WILL BE 150 CALENDAR DAYS.
- WORK SHALL BE PERFORMED DURING DAYTIME HOURS.

IV. DESCRIPTION OF MAJOR WORK EFFORTS:

- FURNISH AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES.
- FURNISH AND INSTALL TRAFFIC CONTROL DEVICES (ie. WEIGHTED CHANNELIZER CONES, SIGNAGE, BARRICADES, ETC.).
- ESTABLISH CONTRACTOR STAGING/LAYDOWN AREA
- FURNISH AND INSTALL DRAINAGE PIPES AND STRUCTURES
- FURNISH AND INSTALL HANGAR FOUNDATION; FROST WALLS AND FLOOR SLAB
- FURNISH AND ERECT HANGAR STRUCTURE
- FURNISH AND INSTALL HANGAR; ROOF, SIDING, HANGAR DOORS, ECT.
- FURNISH AND INSTALL ELECTRICAL
- FURNISH AND INSTALL CRUSHED AGGREGATE BASE COURSE FOR HANGAR APRON
- FURNISH AND PLACE OFF-SITE TOPSOIL AND HYDROSEED

CSPP NOTES:

1. SEE DRAWING C.001 FOR GENERAL NOTES.
2. THIS PLAN HAS BEEN APPROVED BY THE MERIDEN-MARKHAM MUNICIPAL AIRPORT (MMK). NO CHANGES OR MODIFICATIONS TO THIS PLAN WILL BE PERMITTED WITHOUT ADVANCED WRITTEN APPROVAL BY THE RPR.
3. SCHEDULING OF ALL WORK SHALL BE COORDINATED IN WRITING WITH THE AIRPORT MANAGER THROUGH THE RPR A MINIMUM OF 48 HOURS IN ADVANCE.
4. THERE IS NO SEPARATE PAY ITEM TO PROVIDE AND MAINTAIN TRAFFIC CONTROL DEVICES AND MEASURES INCLUDING BUT NOT LIMITED TO LIGHTED BARRICADES, WEIGHTED CONES, SIGNING, TEMPORARY STRIPING, ETC. ALL WORK ASSOCIATED WITH THESE MEASURES IS CONSIDERED INCIDENTAL TO THE PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS AND RESTORATION OF THE EXISTING GATE AND FENCE LINE (IF NECESSARY) TO ALLOW CONSTRUCTION VEHICLE ACCESS TO THE WORK AREA AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. THE CONTRACTOR SHALL CONTINUOUSLY COORDINATE WITH THE RPR AND THE AIRPORT MANAGER REGARDING DAILY CONSTRUCTION ACTIVITIES/OPERATIONS.
7. RESTORATION OF TURF AREAS AFFECTED BY CONSTRUCTION ACTIVITIES/STAGING IS CONSIDERED INCIDENTAL TO ALL OTHER PAY ITEMS.
8. THE CONTRACTOR SHALL PROTECT THE EXISTING HANGAR BUILDINGS DURING CONSTRUCTION. ANY DAMAGE CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED/REPLACED AT NO COST TO THE AIRPORT AND/OR TENANTS.
9. THE CONTRACTOR SHALL PROVIDE APPROPRIATE CONSTRUCTION ENTRANCE WARNING SIGNS ALONG EVANSVILLE AVE. AND HANOVER STREET DURING CONSTRUCTION, MEETING THE REQUIREMENTS OF USDOT FHA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE RPR SHALL APPROVE THE SIGNING PACKAGE PRIOR TO INSTALLATION. THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT.



SAFETY BARRICADE NOTES:

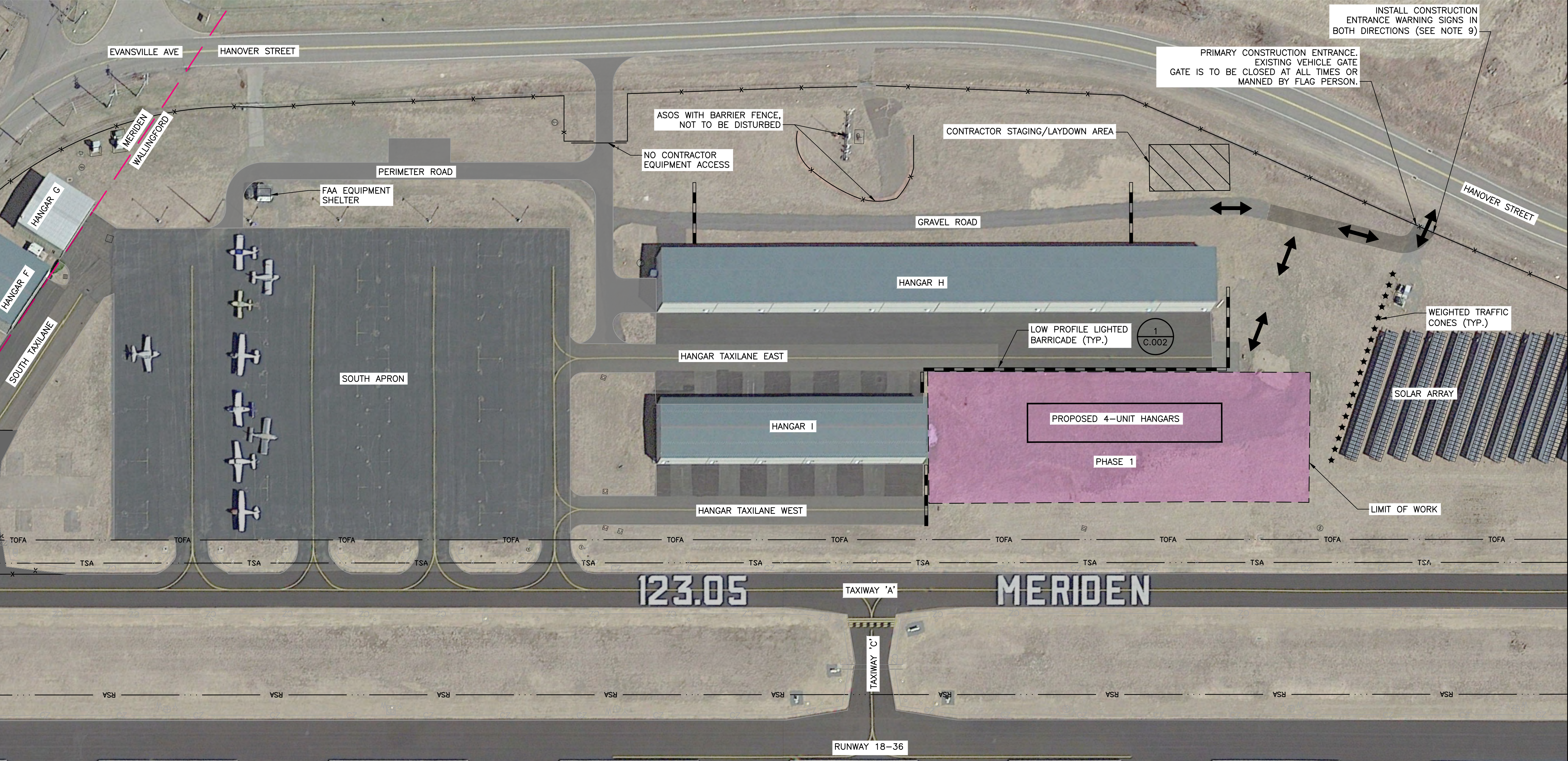
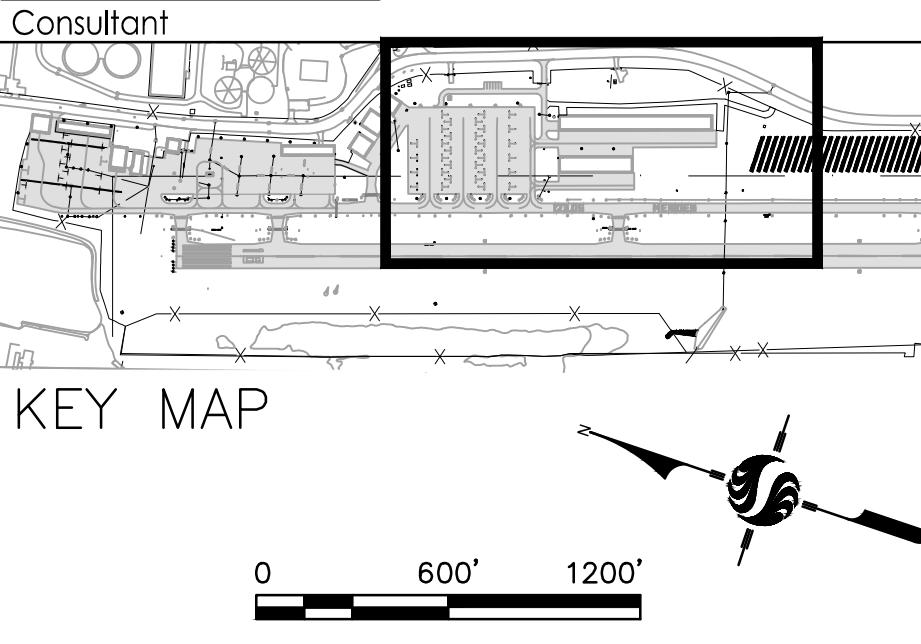
1. THERE IS NO SEPARATE PAY ITEM FOR LIGHTED SAFETY BARRICADES AND THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT.
2. THE LIGHTED SAFETY BARRICADES SHALL BE USED WHEN A WORK AREA IS DIRECTLY ADJACENT TO AN ACTIVE RUNWAY, TAXIWAY OR TAXILANE TO KEEP AIRCRAFT AND VEHICLES FROM TRAVELING INTO A WORK AREA.
3. BARRICADES SHALL BE INTERCONNECTED ON AIRFIELD PAVEMENTS OR AS IDENTIFIED ON PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING AND/OR PROVIDING ADDITIONAL BARRICADES AROUND THE SITE AS NECESSARY TO ACCOMMODATE THE PROPOSED WORK.
5. THE CONTRACTOR SHALL ENSURE THE CONTINUOUS OPERATION OF ALL LIGHTS FOR THE DURATION OF THE PROJECT. LIGHTS AND/OR BATTERIES SHALL BE REPLACED AS NEEDED.
6. THE BARRICADES SHALL BE FILLED WITH WATER OR OTHERWISE SECURED TO PREVENT MOVEMENT.

1 TYPICAL LOW-PROFILE BARRICADE DETAIL
NOT TO SCALE



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Revision	By	Appd	YYYY.MM.DD
Issued for Bid	CAM	PVE	2024.04.04
Issued	By	Appd	YYYY.MM.DD
File Name: 50845_002_SAFETY AND PHASING PLAN	CAM Dwn.	PVE Dsgn.	PVE Chkd. YYYY.MM.DD



Client/Project
Meriden-Markham Municipal Airport

CONSTRUCT 4 - UNIT HANGARS

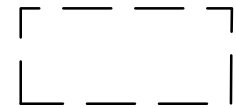



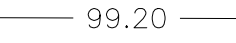










Meriden, CT

Title
CONSTRUCTION SAFETY AND PHASING PLAN

Project No. 179450845	Scale AS SHOWN
Revision Sheet 0 3 of 14	Drawing No. C-002

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LEGEND

-  PROJECT WORK AREA
-  EXISTING HANGAR
-  EXISTING AIRFIELD PAVEMENT
-  99.00 EXISTING MAJOR CONTOUR
-  99.20 EXISTING MINOR CONTOUR
-  EXISTING CB, MH OR DRY WELL
-  EXISTING ELECTRIC HANDHOLE
-  EXISTING DUCTBANK MARKER
-  EXISTING HANDHOLE
-  EXISTING STAKE MOUNTED TW EDGE LIGHT
-  E EXISTING UNDERGROUND CABLE
-  CZ EXISTING COUNTERPOISE WIRE
-  TOFA TAXIWAY OBJECT FREE AREA
-  TSA TAXIWAY SAFETY AREA
-  SURVEY BENCHMARK

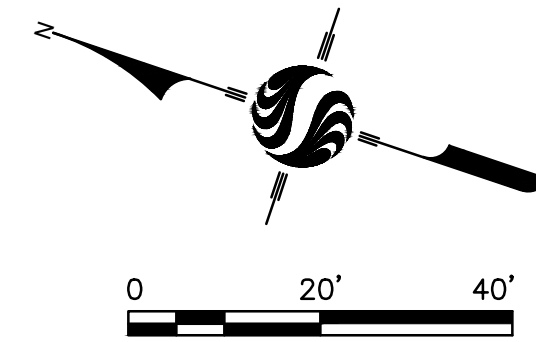
NATIONAL GEODETIC SURVEY MONUMENTS:

MMK PACS A
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N: 747672.84
E: 977527.38

MMK SACS B
ELEV: 99.00'
N: 746751.78
E: 977859.13

NOTES:

1. REFER TO UNDERGROUND UTILITY NOTES ON DRAWING C.001.
2. ALL EXISTING UTILITIES AND STRUCTURES NOT PART OF THIS PROJECT ARE TO REMAIN UNDISTURBED. ANY DISTURBED OR DAMAGED AIRPORT, CITY OR FAA PROPERTY SHALL BE REPAIRED OR REPLACED PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL LAND SURVEYOR, REGISTERED IN THE STATE OF CONNECTICUT FOR ALL SURVEY AND LAYOUT WORK.

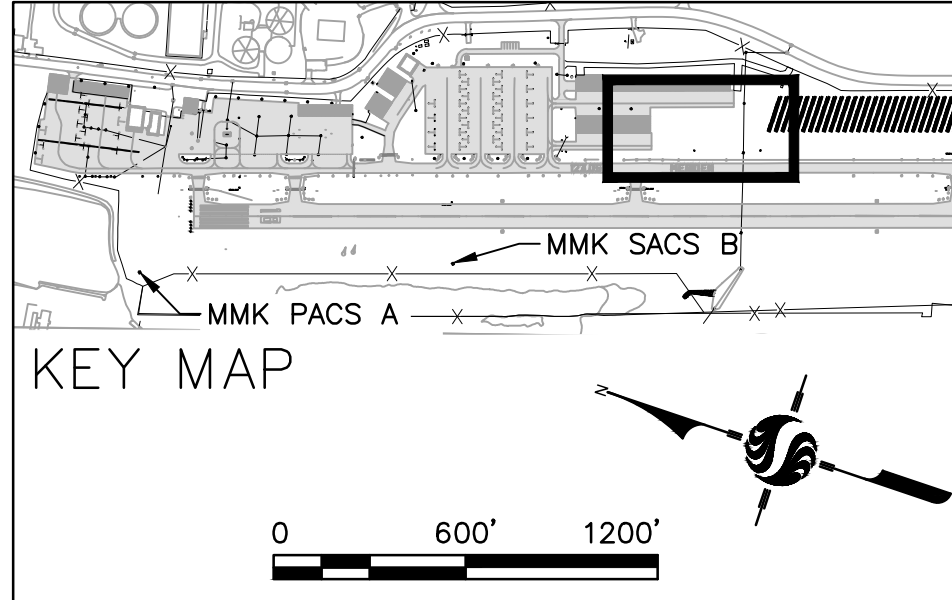


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D

C

B

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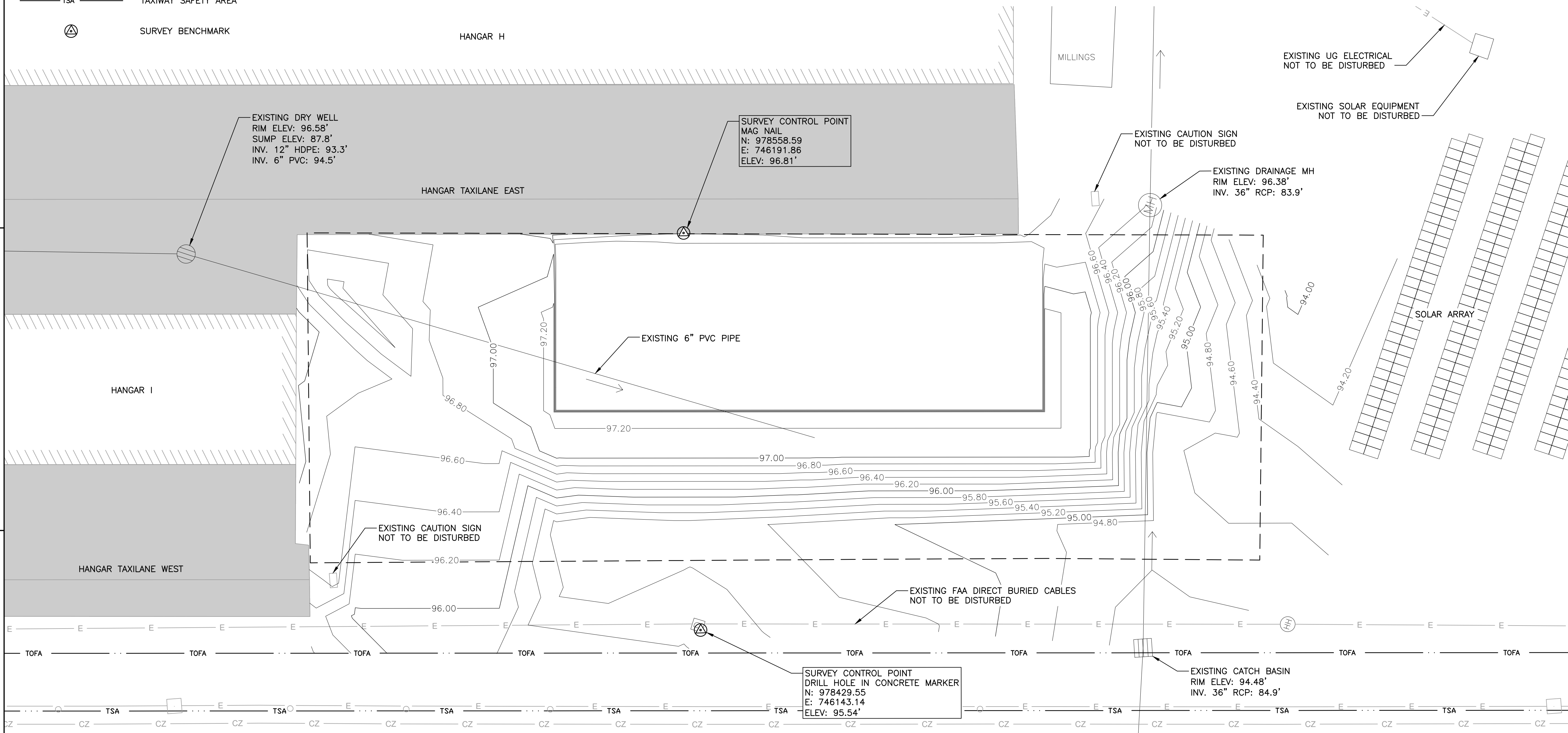
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Revision	By	Appd	YYYY.MM.DD
Issued for Bid	CAM	PVE	2024.04.04
Issued	By	Appd	YYYY.MM.DD
File Name: 50845_100_EXISTING CONDITIONS PLAN	CAM	PVE	PVE
	Dwn.	Dsgn.	Chkd.
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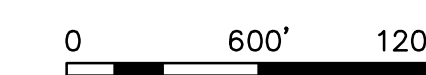
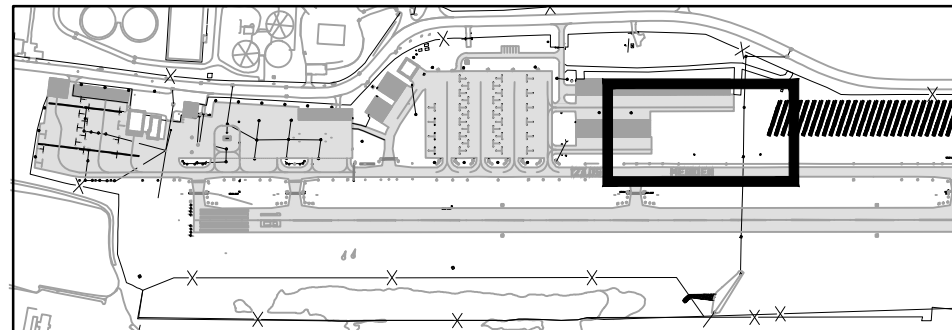
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Meriden-Markham Municipal Airport

CONSTRUCT 4 - UNIT HANGARS

Meriden, CT

Title
EXISTING CONDITIONS PLAN

Project No. 179450845	Scale AS SHOWN
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LEGEND

[Dashed Box]	PROJECT WORK AREA
[Hatched Box]	EXISTING HANGAR
[Solid Grey Box]	EXISTING AIRFIELD PAVEMENT
[Line 99.00]	EXISTING MAJOR CONTOUR
[Line 99.20]	EXISTING MINOR CONTOUR
[Circle with X]	EXISTING CB, MH OR DRY WELL
[Square with E]	EXISTING ELECTRIC HANDHOLE
[Square with D]	EXISTING DUCTBANK MARKER
[Circle with H]	EXISTING HANDHOLE
[Circle]	EXISTING STAKE MOUNTED TW EDGE LIGHT
[Line E]	EXISTING UNDERGROUND CABLE
[Line CZ]	EXISTING COUNTERPOISE WIRE
[Line TOFA]	TAXIWAY OBJECT FREE AREA
[Line TSA]	TAXIWAY SAFETY AREA
[BOS]	BOTTOM OF SLAB ELEVATION
[TOS]	TOP OF SLAB ELEVATION

LEGEND CONT.

[Dashed Line]	SAWCUT EXISTING PAVEMENT
[Point 32]	POINT I.D. #, SEE POINT TABLE
[Line with 2]	FIBER ROLL
[Circle with 3]	INLET PROTECTION
[Line 99.0]	PROPOSED MAJOR CONTOUR - TOP OF AGGREGATE BASE COURSE
[Line 99.2]	PROPOSED MINOR CONTOUR - TOP OF AGGREGATE BASE COURSE
[Circle with D]	PROPOSED DRY WELL
[Line SD]	PROPOSED DRAINAGE PIPE
[Solid Grey Box]	PROPOSED HANGAR APRON
[Dotted Box]	2" MIN. TOPSOIL AND SEED

Point Table

Point #	Northing	Easting	Description
1	746225.06	978518.47	HANGAR CORNER
2	746065.05	978571.27	HANGAR CORNER
3	746054.26	978539.32	HANGAR CORNER
4	746214.57	978486.65	HANGAR CORNER

Point Table

Point #	Northing	Easting	Description
5	746225.06	978518.47	97.24 BOS
6	746065.05	978571.27	97.24 BOS
7	746073.61	978597.12	PROPOSED APRON CORNER
8	746233.46	978544.18	PROPOSED APRON CORNER

Point Table

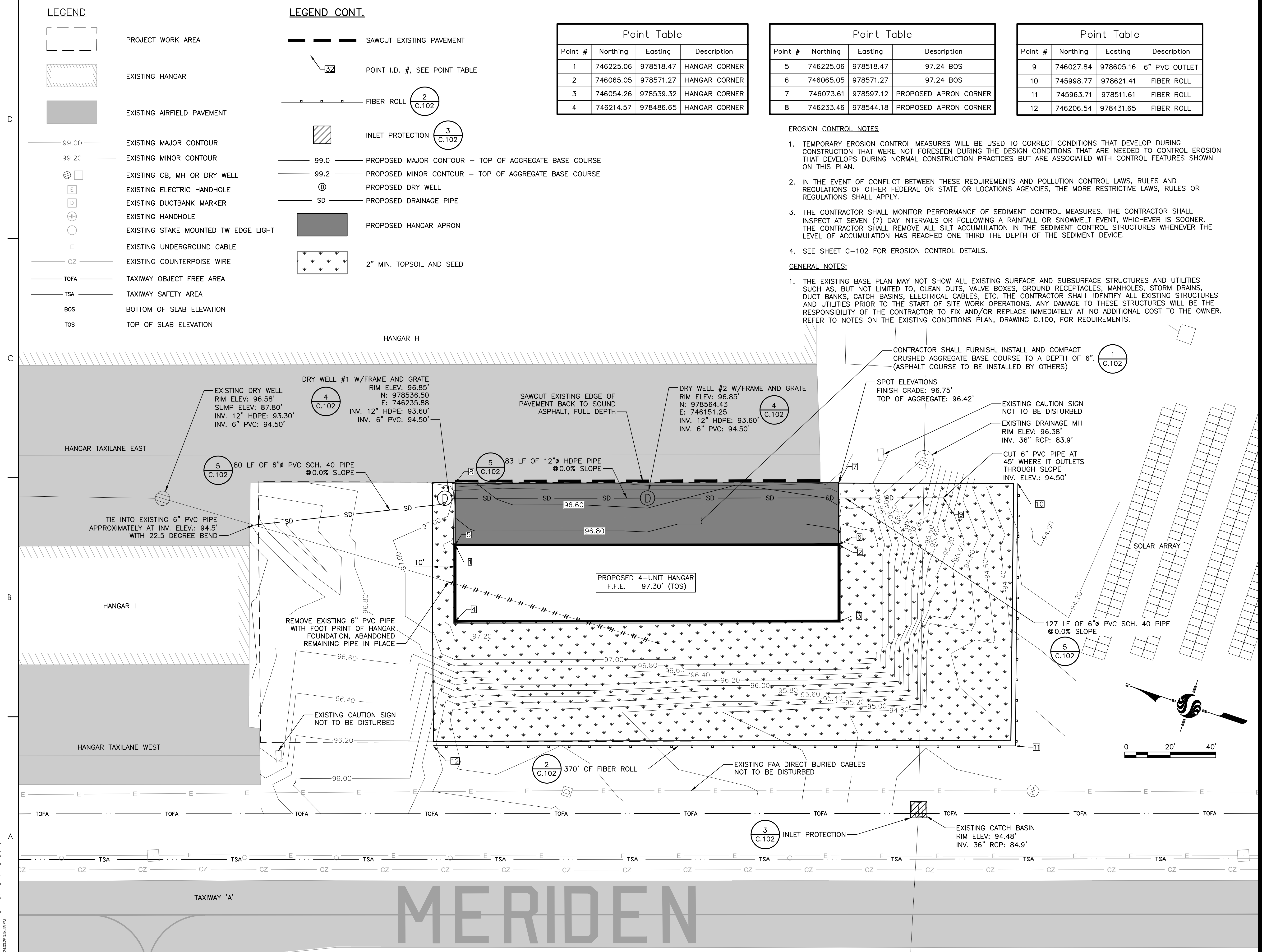
Point #	Northing	Easting	Description
9	746027.84	978605.16	6" PVC OUTLET
10	745998.77	978621.41	FIBER ROLL
11	745963.71	978511.61	FIBER ROLL
12	746206.54	978431.65	FIBER ROLL

EROSION CONTROL NOTES

- TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING THE DESIGN CONDITIONS THAT ARE NEEDED TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES BUT ARE ASSOCIATED WITH CONTROL FEATURES SHOWN ON THIS PLAN.
- IN THE EVENT OF CONFLICT BETWEEN THESE REQUIREMENTS AND POLLUTION CONTROL LAWS, RULES AND REGULATIONS OF OTHER FEDERAL OR STATE OR LOCATIONS AGENCIES, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
- THE CONTRACTOR SHALL MONITOR PERFORMANCE OF SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT AT SEVEN (7) DAY INTERVALS OR FOLLOWING A RAINFALL OR SNOWMELT EVENT, WHICHEVER IS SOONER. THE CONTRACTOR SHALL REMOVE ALL SILT ACCUMULATION IN THE SEDIMENT CONTROL STRUCTURES WHENEVER THE LEVEL OF ACCUMULATION HAS REACHED ONE THIRD THE DEPTH OF THE SEDIMENT DEVICE.
- SEE SHEET C-102 FOR EROSION CONTROL DETAILS.

GENERAL NOTES:

- THE EXISTING BASE PLAN MAY NOT SHOW ALL EXISTING SURFACE AND SUBSURFACE STRUCTURES AND UTILITIES SUCH AS, BUT NOT LIMITED TO, CLEAN OUTS, VALVE BOXES, GROUND RECEPTACLES, MANHOLES, STORM DRAINS, DUCT BANKS, CATCH BASINS, ELECTRICAL CABLES, ETC. THE CONTRACTOR SHALL IDENTIFY ALL EXISTING STRUCTURES AND UTILITIES PRIOR TO THE START OF SITE WORK OPERATIONS. ANY DAMAGE TO THESE STRUCTURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX AND/OR REPLACE IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. REFER TO NOTES ON THE EXISTING CONDITIONS PLAN, DRAWING C.100, FOR REQUIREMENTS.



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Issued for Bid	CAM	PVE	2024.04.04
Issued	By	Appd	YYYY.MM.DD

File Name: 50845_101_LAYOUT PLAN	CAM	PVE	PVE
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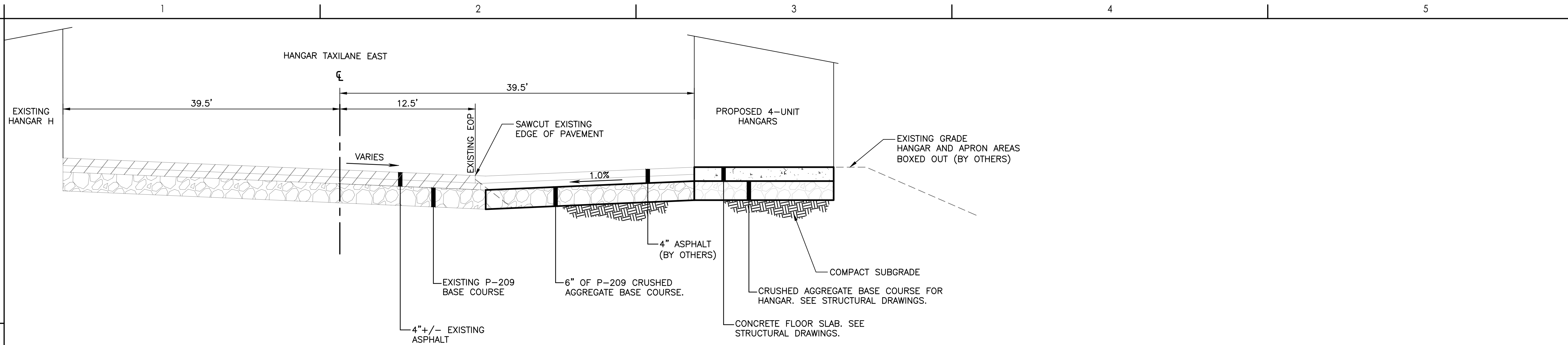
Client/Project
Meriden-Markham Municipal Airport

CONSTRUCT 4 - UNIT HANGARS

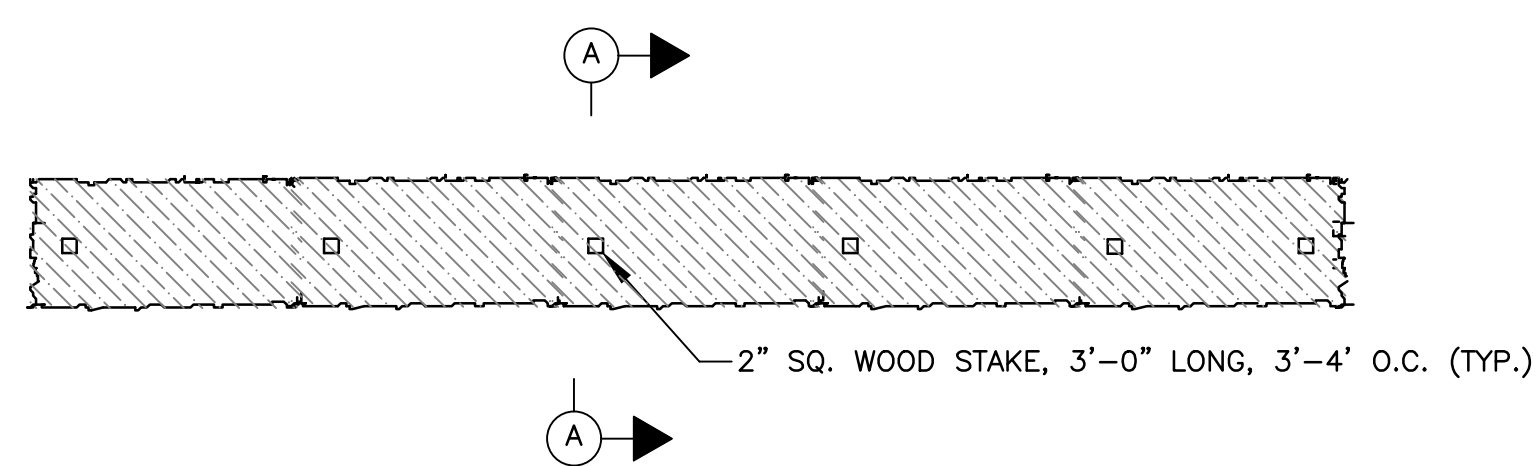
Meriden, CT

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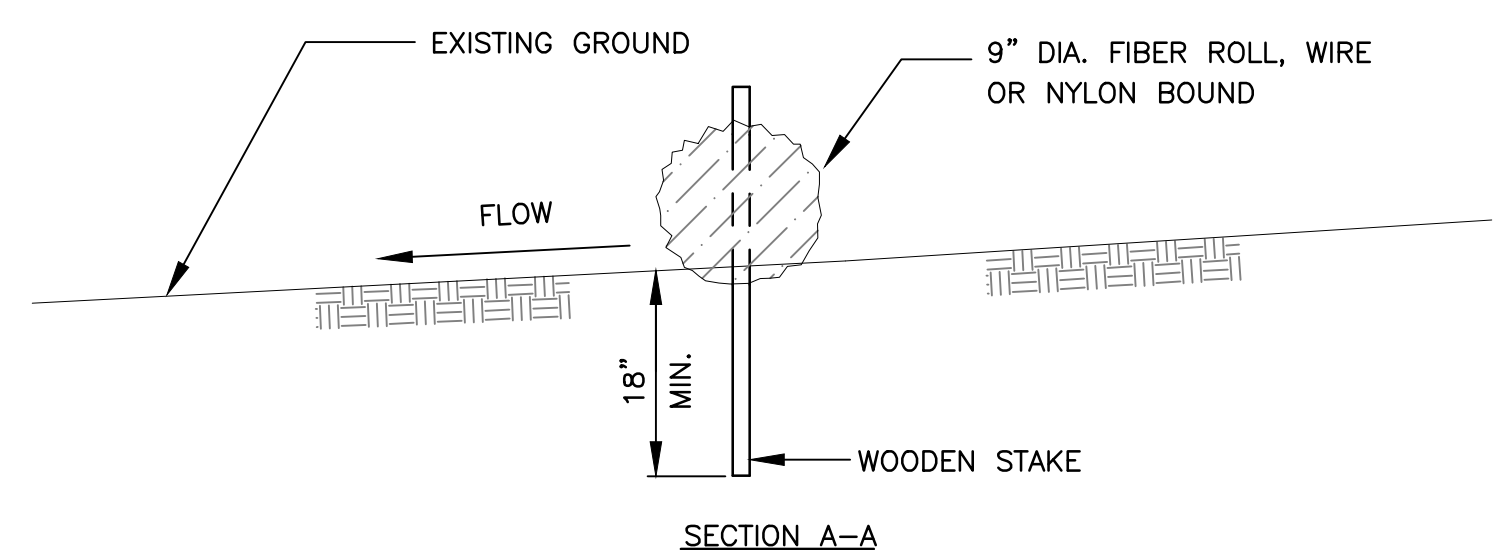
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179450845	AS SHOWN
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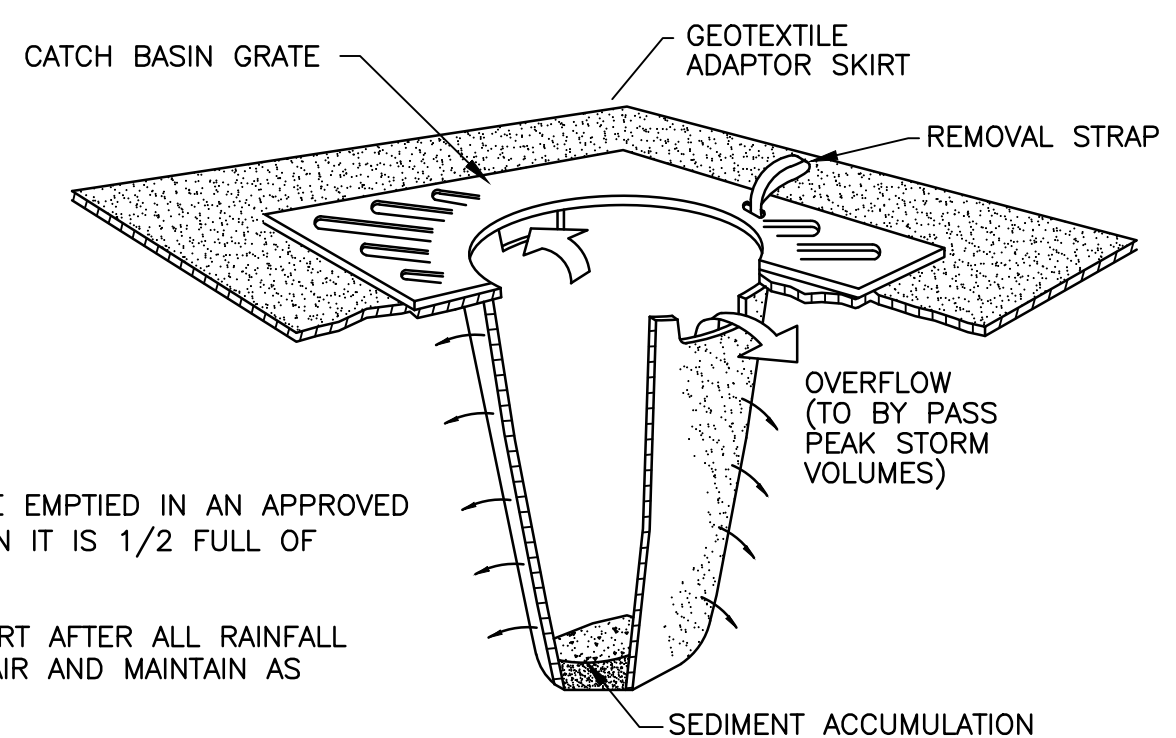
1 TYPICAL TAXILANE/HANGAR PAVEMENT SECTION
NOT TO SCALE



- NOTES:
- AREAS DISTURBED BY FIBER ROLLS SHALL BE STABILIZED AND RESTORED AFTER REMOVAL.
 - USE FIBER ROLLS AROUND STOCKPILED MATERIAL AS DIRECTED BY THE ENGINEER.

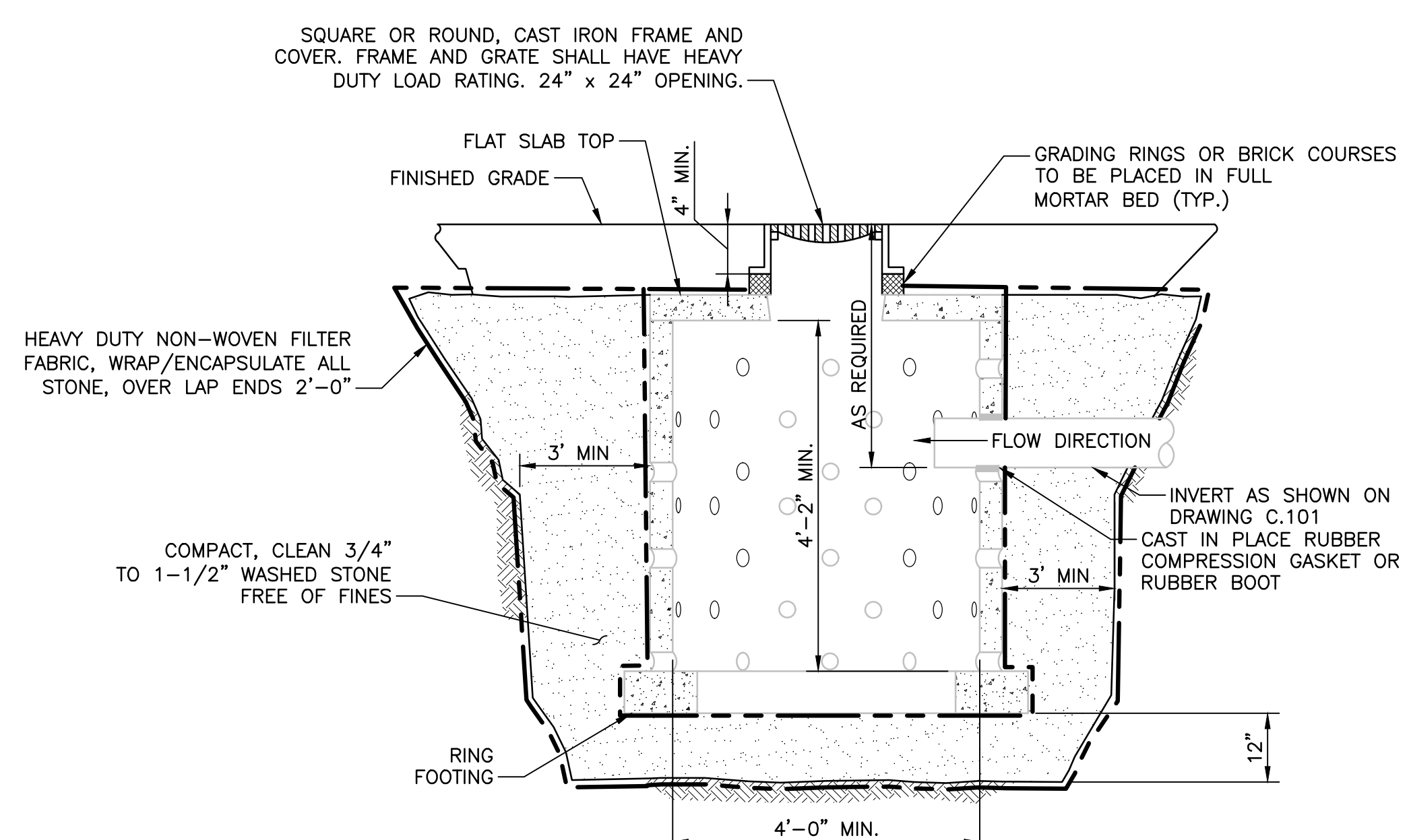


2 FIBER ROLL DETAIL
NOT TO SCALE



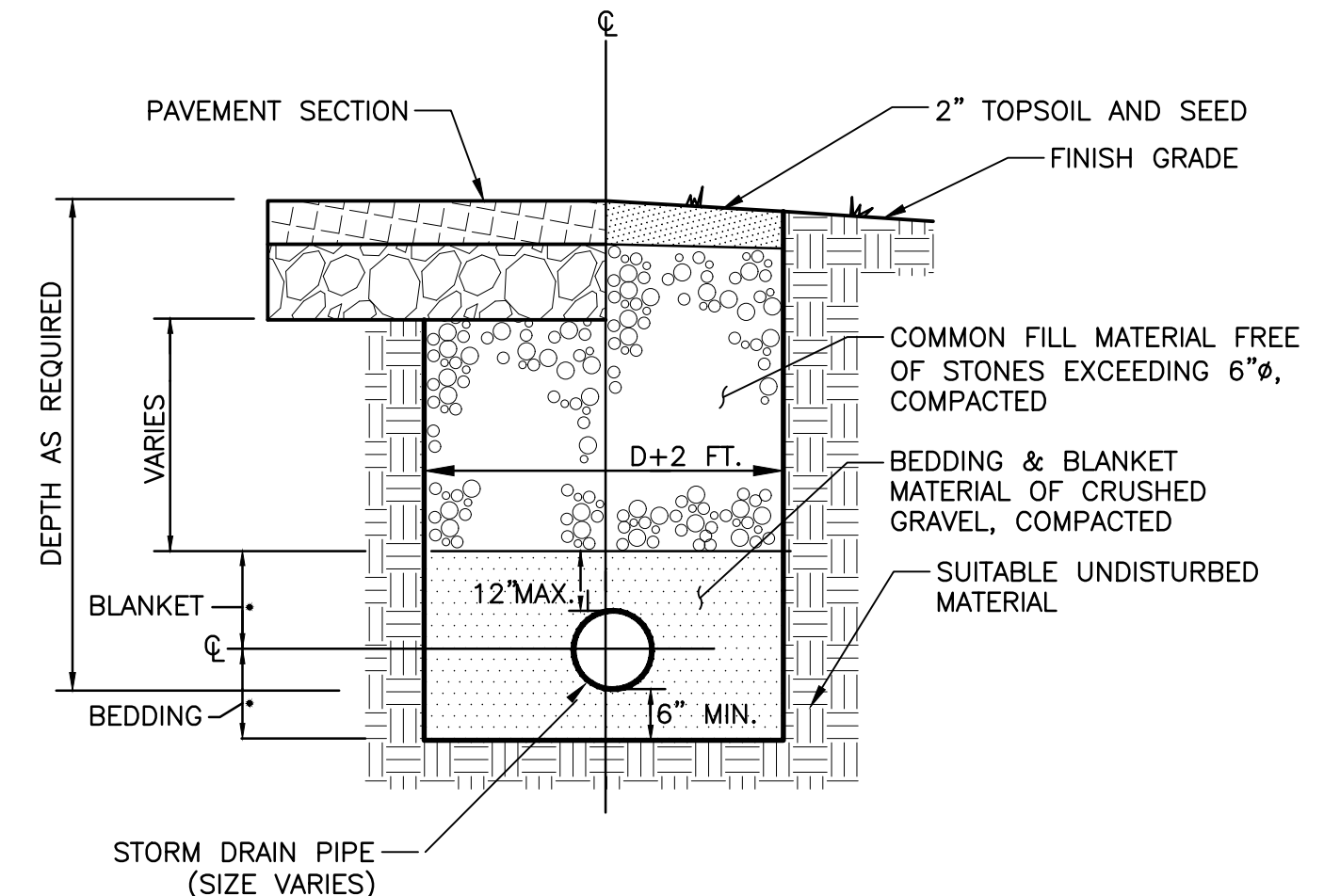
- NOTES:
- INSERT TO BE EMPTIED IN AN APPROVED MANNER WHEN IT IS 1/2 FULL OF SEDIMENT.
 - INSPECT INSERT AFTER ALL RAINFALL EVENTS, REPAIR AND MAINTAIN AS REQUIRED.
 - USE AT ALL EXISTING AND PROPOSED CATCH BASINS AS DIRECTED BY ENGINEER.

3 INLET PROTECTION DETAIL
NOT TO SCALE



- NOTES:
- CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 - ALL STRUCTURES SHALL BE MANUFACTURED FOR HS-20 LOAD RATING.

4 PRECAST REINFORCED DRYWELL DETAIL
NOT TO SCALE



5 STORM DRAIN DETAIL
NOT TO SCALE

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Issued for Bid	CAM	PVE	2024.04.04

Issued	By	Appd	YYYY.MM.DD

File Name: 50845_102_TYPICAL SECTION AND DETAILS	CAM	PVE	PVE



Client/Project Logo



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Meriden-Markham Municipal Airport

CONSTRUCT 4 - UNIT HANGARS

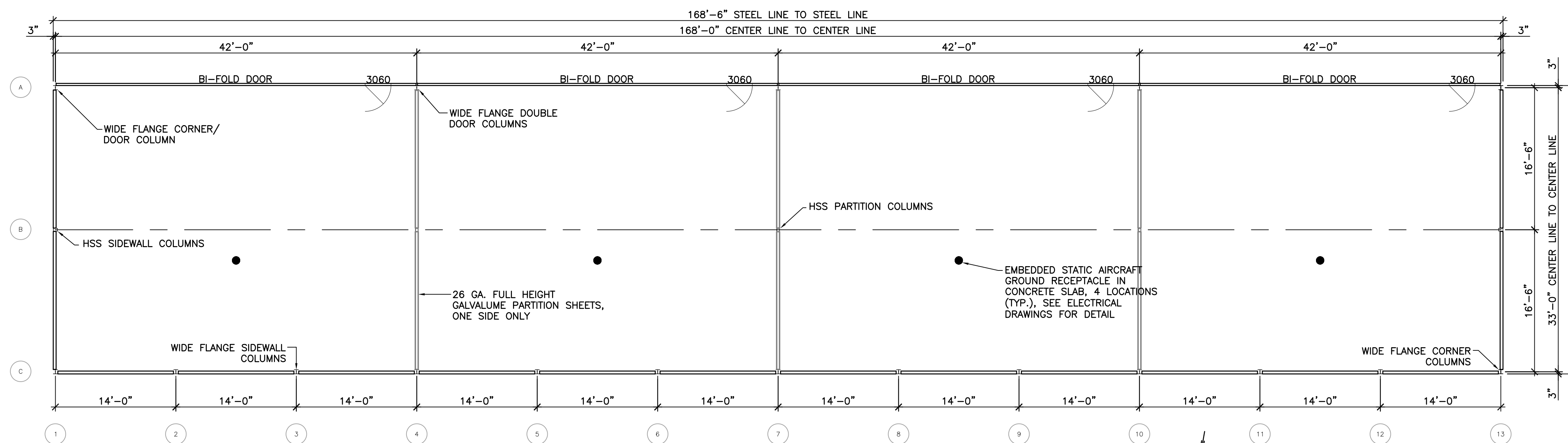
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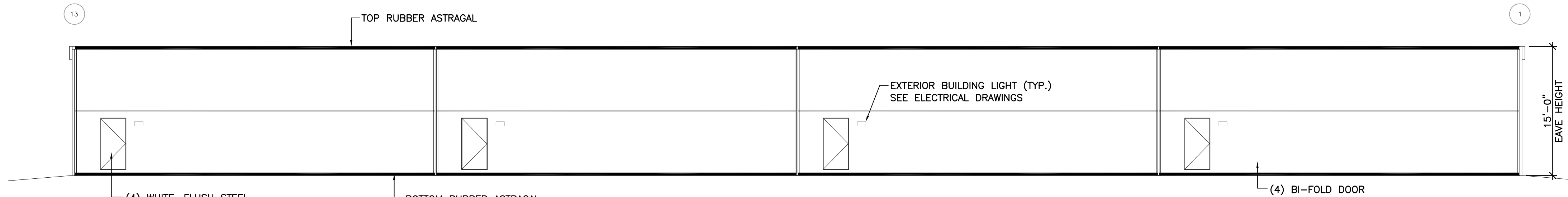
TYPICAL SECTION AND CIVIL DETAILS

Project No.	Scale
179450845	AS SHOWN

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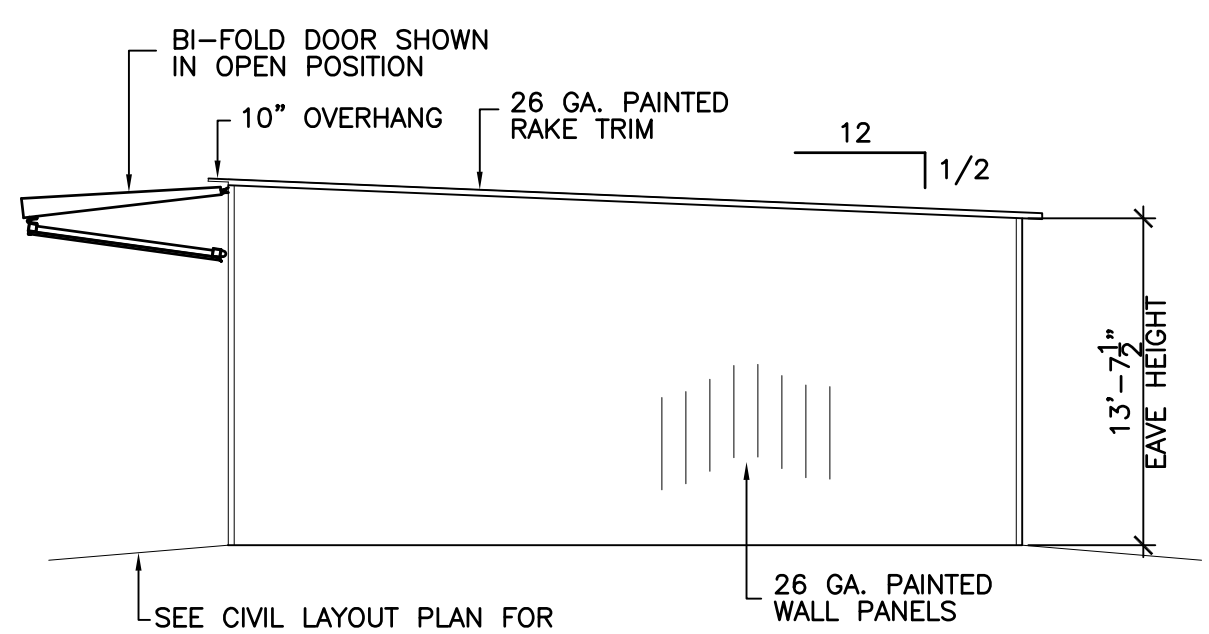
1 FLOOR PLAN
SCALE: 1/8"=1'-0"



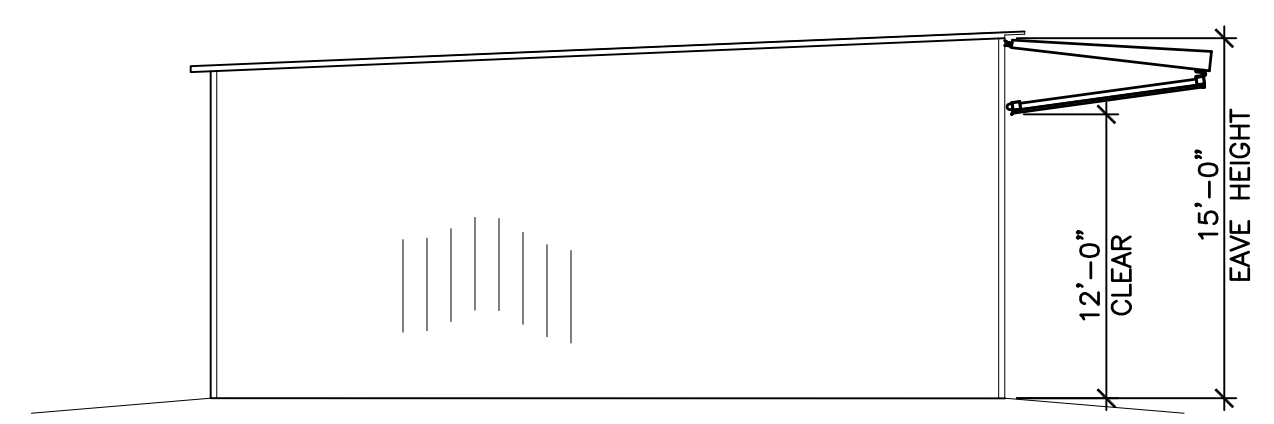
2 FRONT ELEVATION
SCALE: 1/8"=1'-0"



3 REAR ELEVATION
SCALE: 1/8"=1'-0"



4 LEFT HAND ENDWALL ELEVATION
SCALE: 1/8"=1'-0"



5 RIGHT HAND ENDWALL ELEVATION
SCALE: 1/8"=1'-0"

- GENERAL NOTES**
- ALL PRIMARY AND SECONDARY STEEL SHALL BE RED PRIMED. (INTENDED FOR SHORT TERM EXPOSURE ONLY)
 - LOCKSETS SHALL BE KEYED DIFFERENTLY AND MASTER KEYED. FIELD DRILL (2) 5/16" THRU HOLES FOR LOCKSET MOUNTING. DOOR LEAFS ARE SUPPLIED WITH A 2 1/8" BORE AND 1" THRU BOLT FOR CYLINDRICAL LOCKSET. BACKSET 2 3/4".
 - ROOF OVERHANG SHALL BE 10" FROM STEEL LINE.
 - EXTERIOR WALL PANELS AND TRIM COLORS SHALL BE DETERMINED BY OWNER.
 - WALK DOOR IN BI-FOLD DOORS TO BE FLUSH AND WHITE IN COLOR. (PER MANUFACTURERS STANDARD)
 - BI-FOLD DOOR SHALL BE EQUIPPED WITH MANUAL DOOR LATCHES.
 - EACH BI-FOLD DOOR SHALL BE PROVIDED WITH A "COLD WEATHER" PACKAGE WHICH INCLUDES BOTTOM, CENTER, TOP RUBBER ASTRAGAL AND JAMB SEALS

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GENERAL NOTES
1. DETAILS GIVEN ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS, U.N.O.
2. CONSTRUCTION SAFETY MEASURES, MEANS OF METHODS, AND THE COMPLIANCE WITH ALL OSHA LAWS IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS / OMISSIONS IN CONTRACT DOCUMENTS FOR CLARIFICATION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL NOT MAKE DEVIATIONS OR SUBSTITUTIONS WITHOUT WRITTEN AUTHORIZATION FROM ENGINEER.

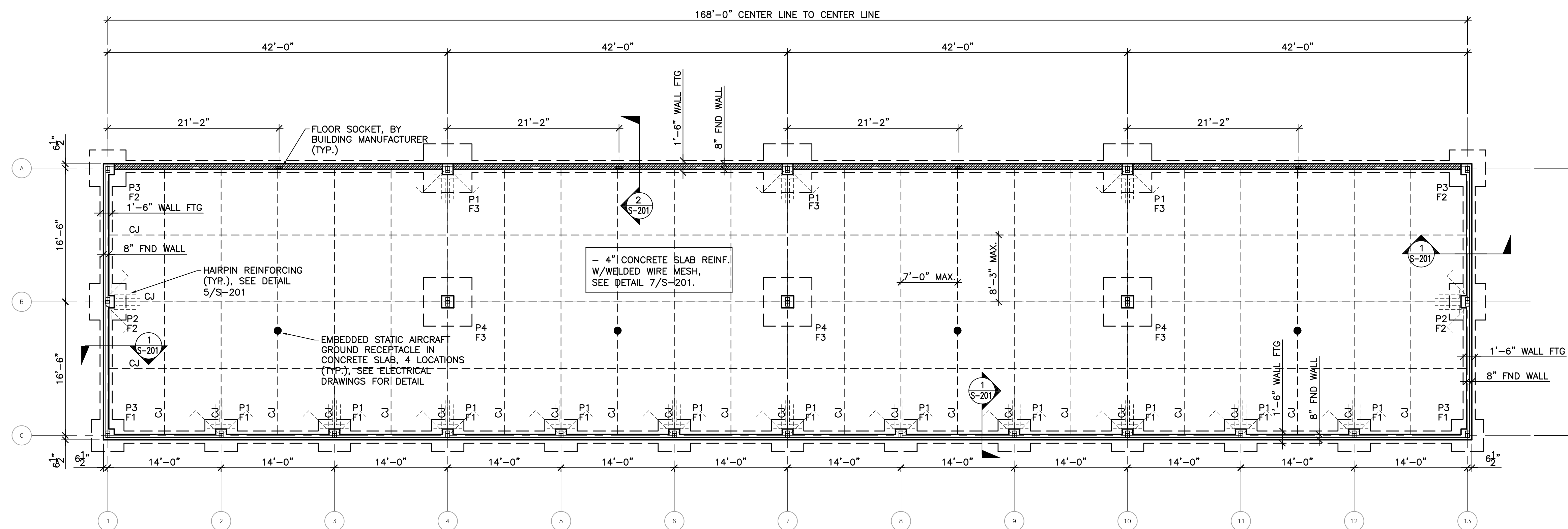
PLAN NOTES
1. FINISHED FLOOR ELEVATION T/O SLAB = 97.30'.
2. TOP OF FOUNDATION WALL ELEVATION = 97.30' UNLESS OTHERWISE NOTED.
3. TOP OF PIER ELEVATION = 97.30'.
2. TOP OF FOOTING ELEVATION = 93.8'.
4. SEE SHEET S-201 FOR TYPICAL FOUNDATION DETAILS
5. COORDINATE LOCATION, SIZE, SPECIAL REQUIREMENTS FOR OPENINGS IN CONCRETE WORK WITH ALL TRADES PRIOR TO POUR. SLEEVES TO BE SUPPLIED AS REQUIRED BY OTHER CONTRACTS & INSTALLED UNDER C-CONTRACT.

SYMBOL KEY	
	- DEPRESSED FOUNDATION WALL, ELEVATION -(1'-0"), SEE SECTION 2/S-201.
CJ	- CONTROL JOINT, SEE DETAIL 8/S-201.

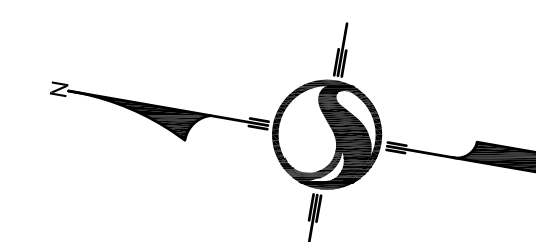
BID/AWARD NOTES
PIER AND FOOTING DESIGN IS SUBJECT TO DIMENSIONAL AND REINFORCEMENT CHANGES AFTER REVIEW OF THE HANGAR BUILDING SHOP DRAWINGS AND CALCULATIONS.
DO NOT SUBMIT CONCRETE REINFORCING SHOP DRAWINGS, BEGIN EXCAVATION OR PERFORM CONCRETE WORK, UNTIL FINAL STAMPED FOUNDATION DESIGN HAS BEEN PROVIDED BY THE ENGINEER.

FOOTING SCHEDULE			
FOOTING TYPE	FOOTING SIZE	FOOTING DEPTH	FOOTING REINFORCING
F1	4'-0" x 4'-0"	12"	4 - #5's E.W.
F2	4'-6" x 4'-6"	12"	4 - #5's E.W.
F3	6'-0" x 6'-0"	12"	7 - #5's E.W.

NOTE:
FOR PIER SIZES AND REINFORCEMENT REFER TO DETAIL 4/S-201.



1 FOUNDATION PLAN
SCALE: 1/8"=1'-0"



Revision	By	Appd	YYYY.MM.DD

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Issued	By	Appd	YYYY.MM.DD

File Name: S-101	TJW	TJW	EH

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CONSTRUCT 4 - UNIT HANGARS

Meriden, CT

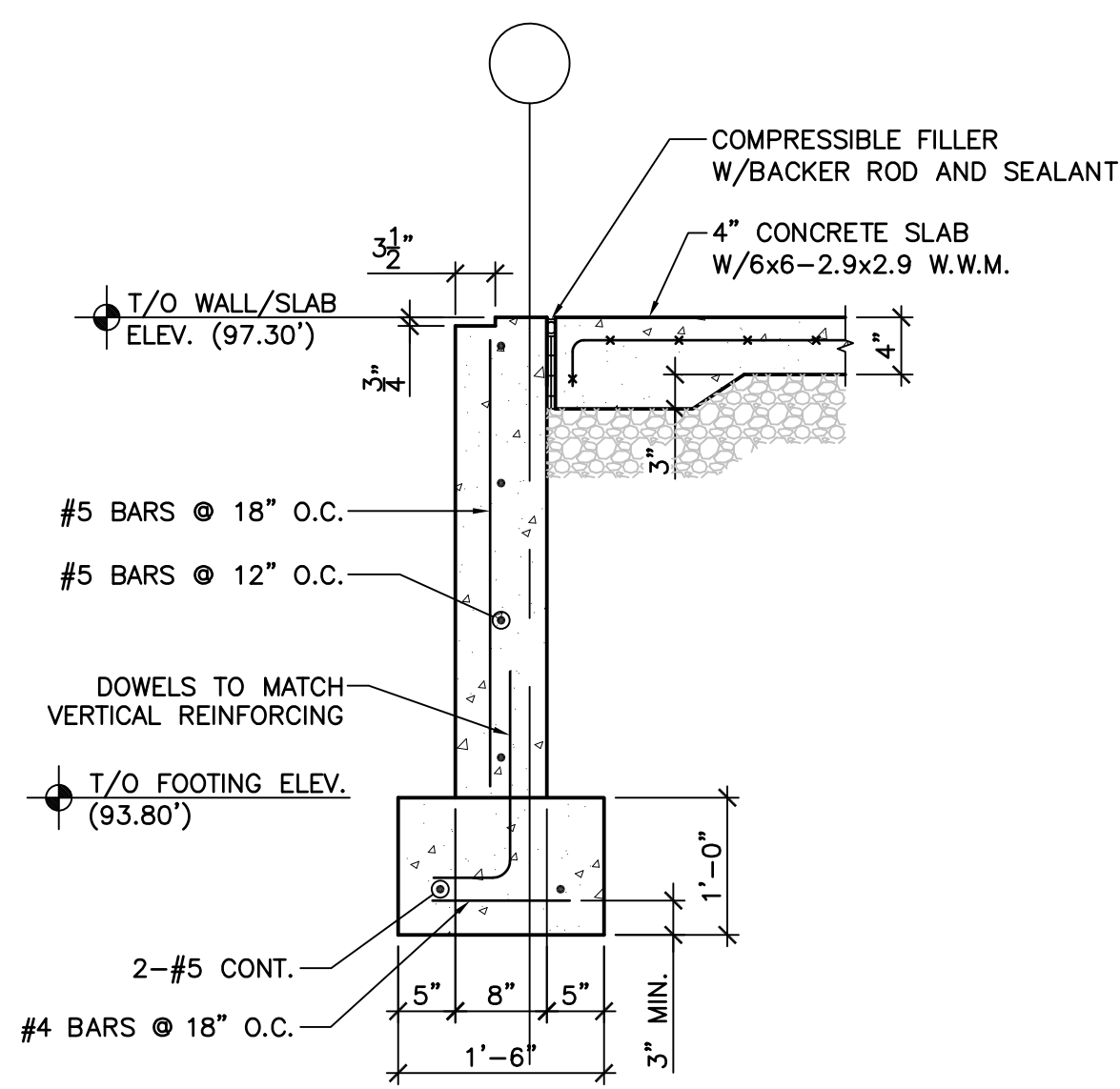
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FOUNDATION PLAN

Project No.
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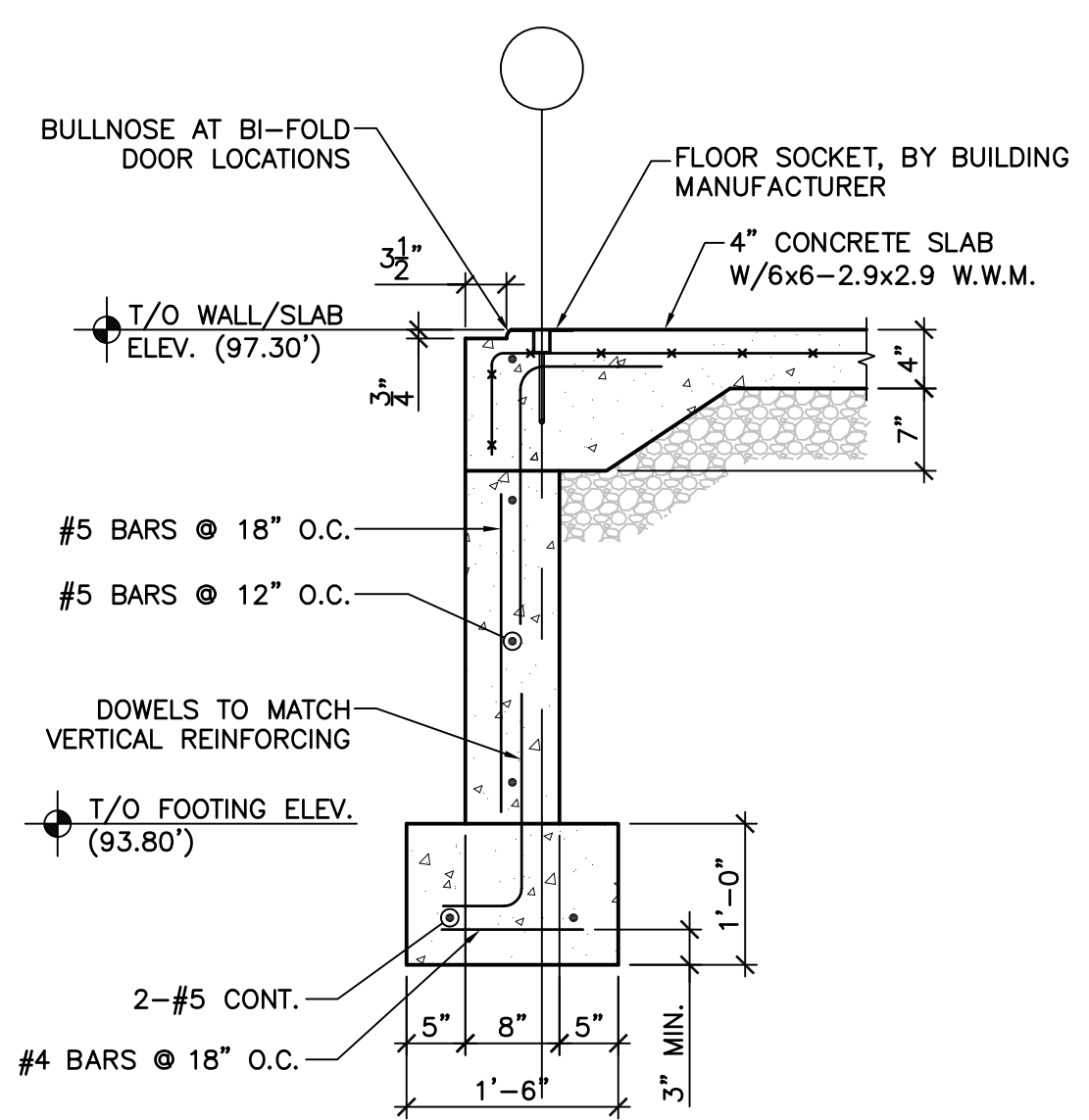
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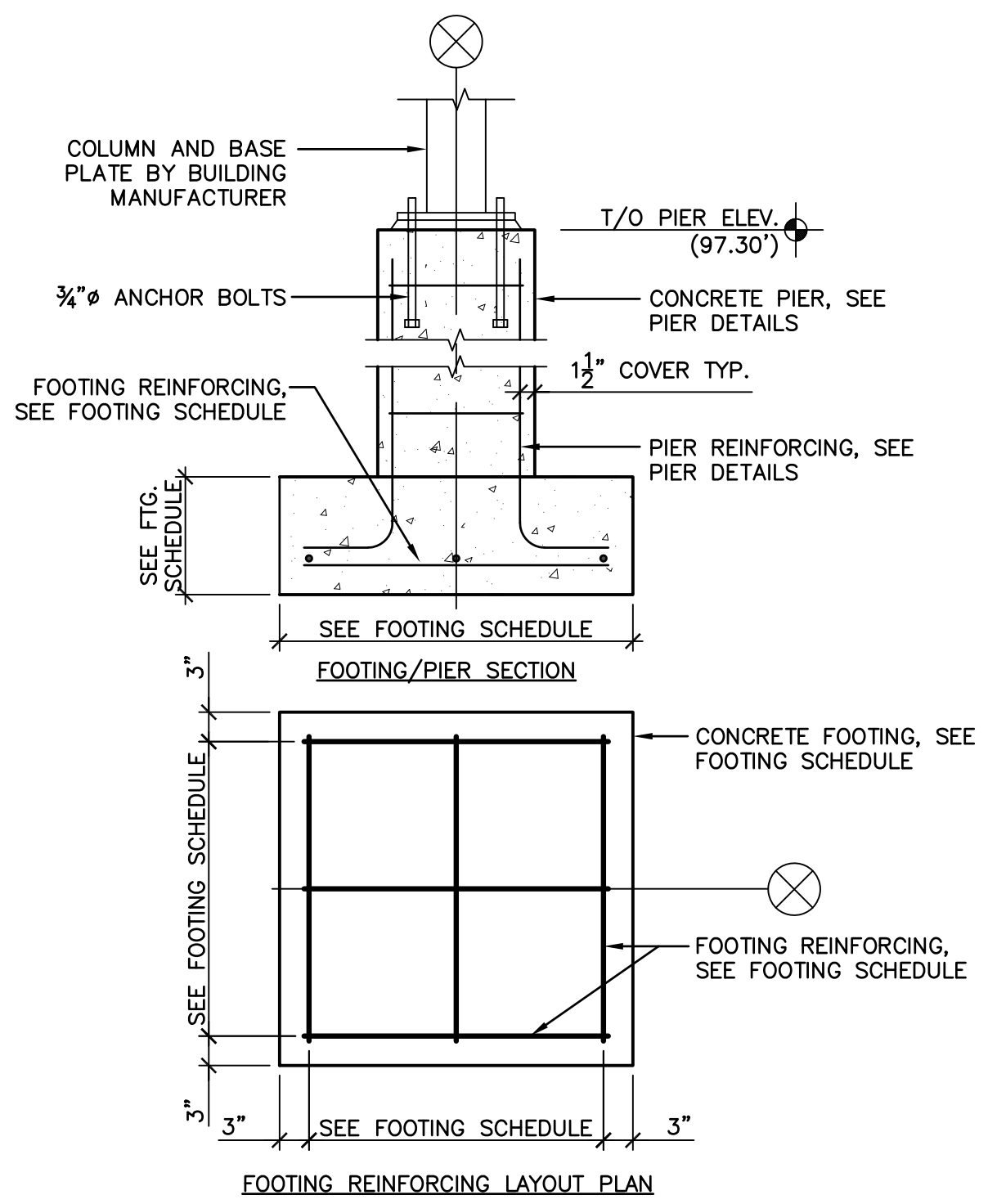
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S-101



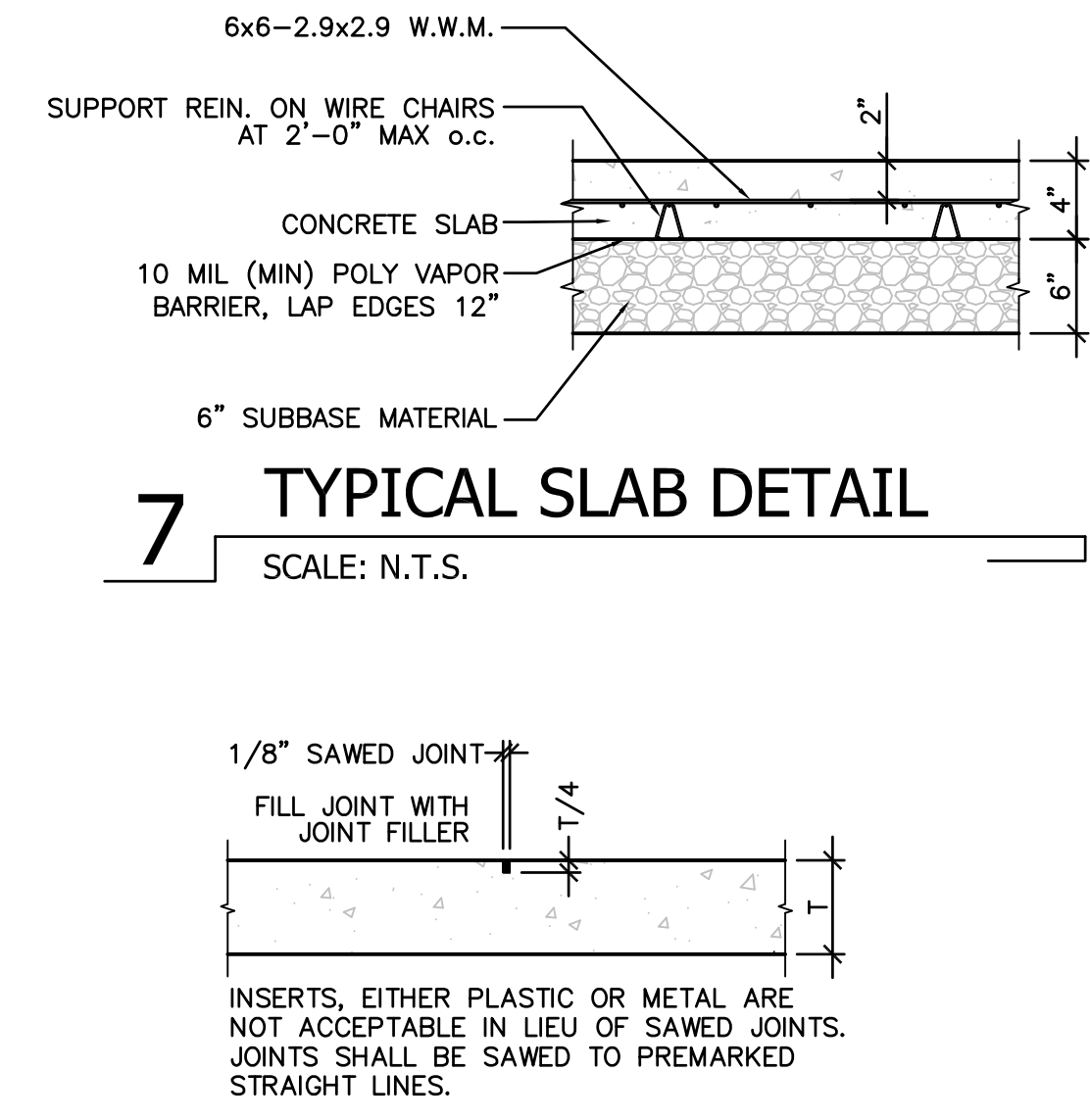
1 SECTION
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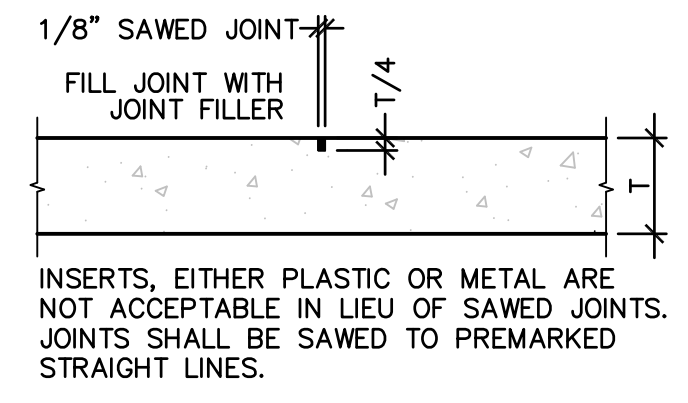
2 SECTION
SCALE: 3/4"=1'-0"



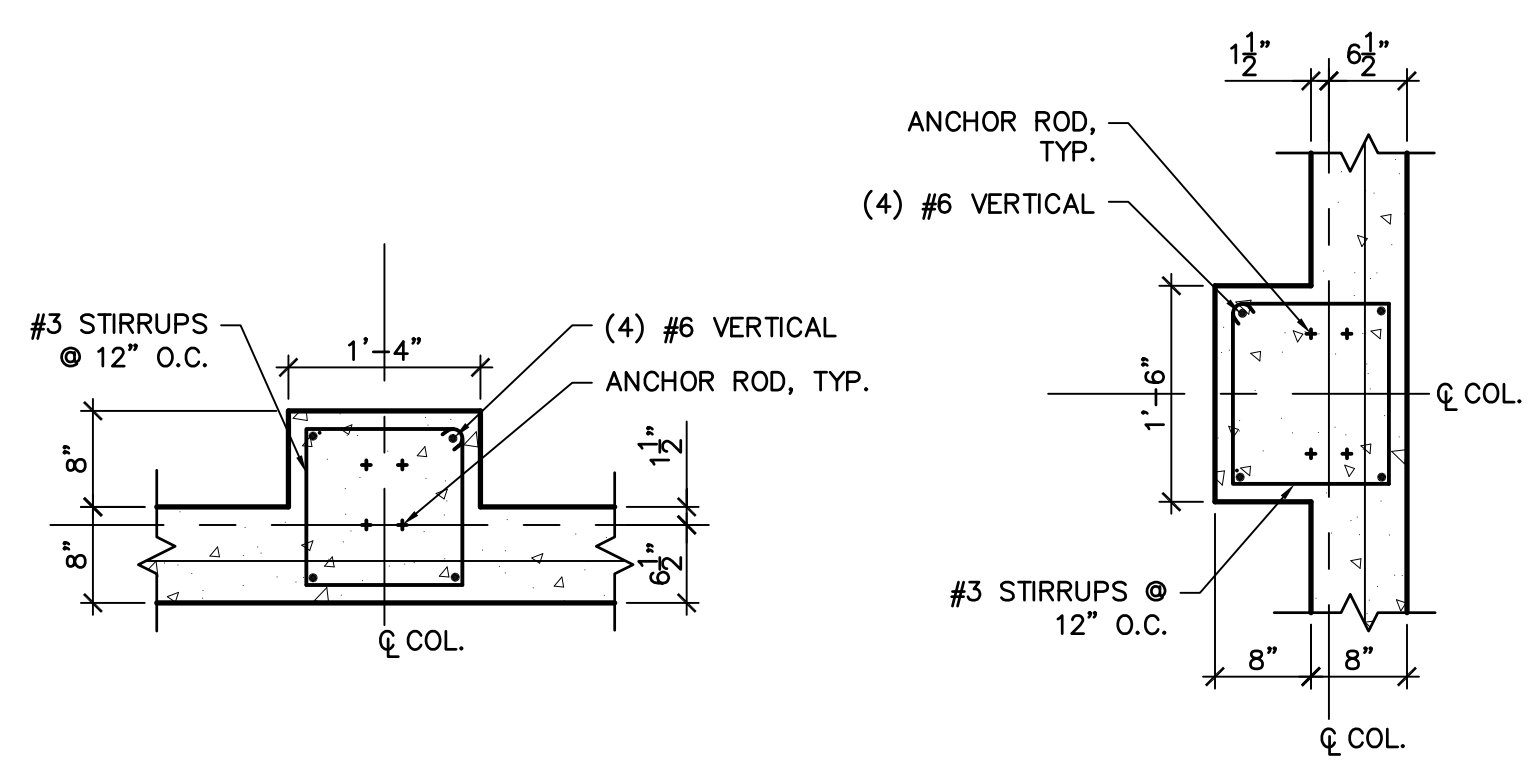
3 TYPICAL PIER/FOOTING SECTION
SCALE: 3/4"=1'-0"



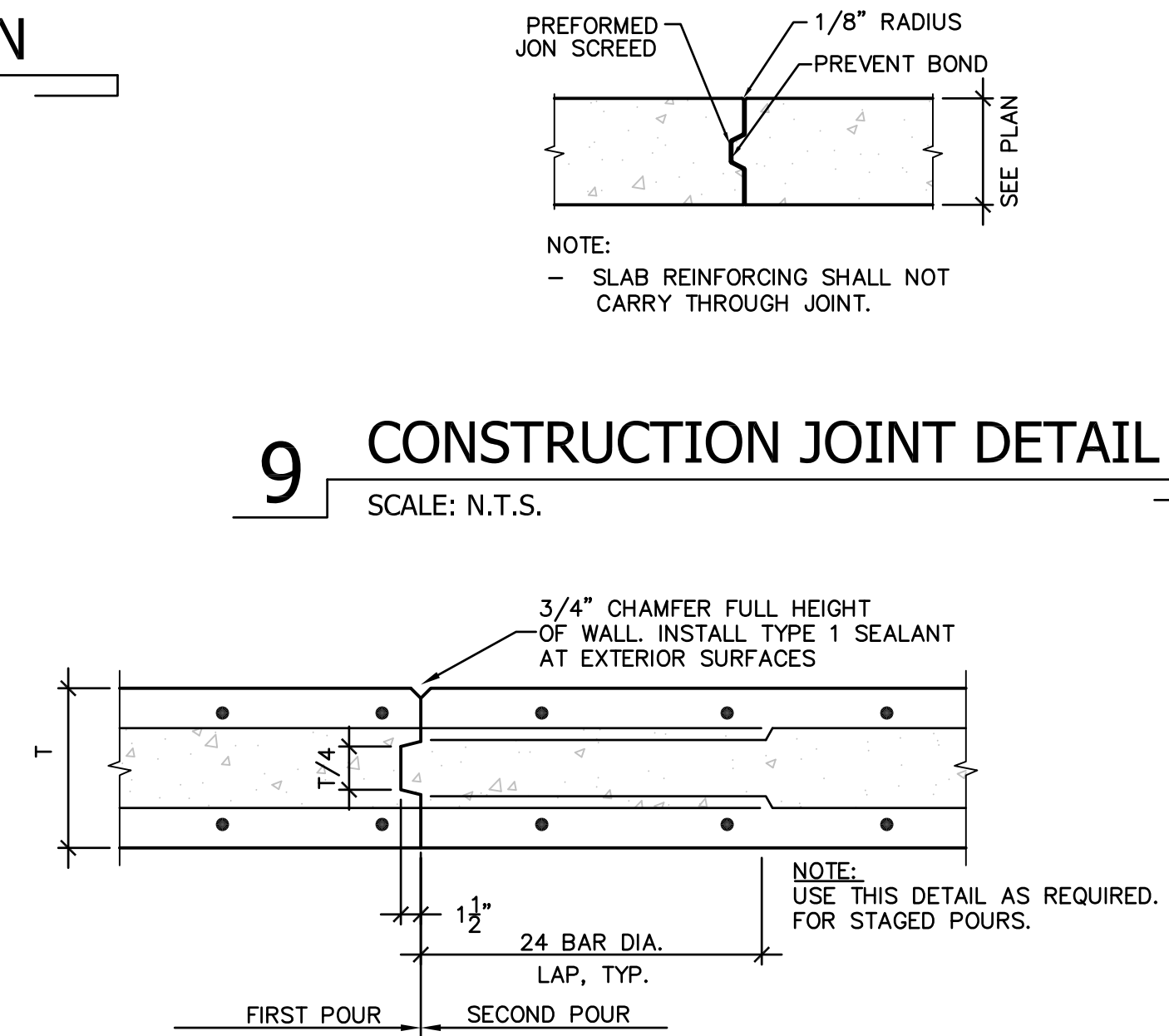
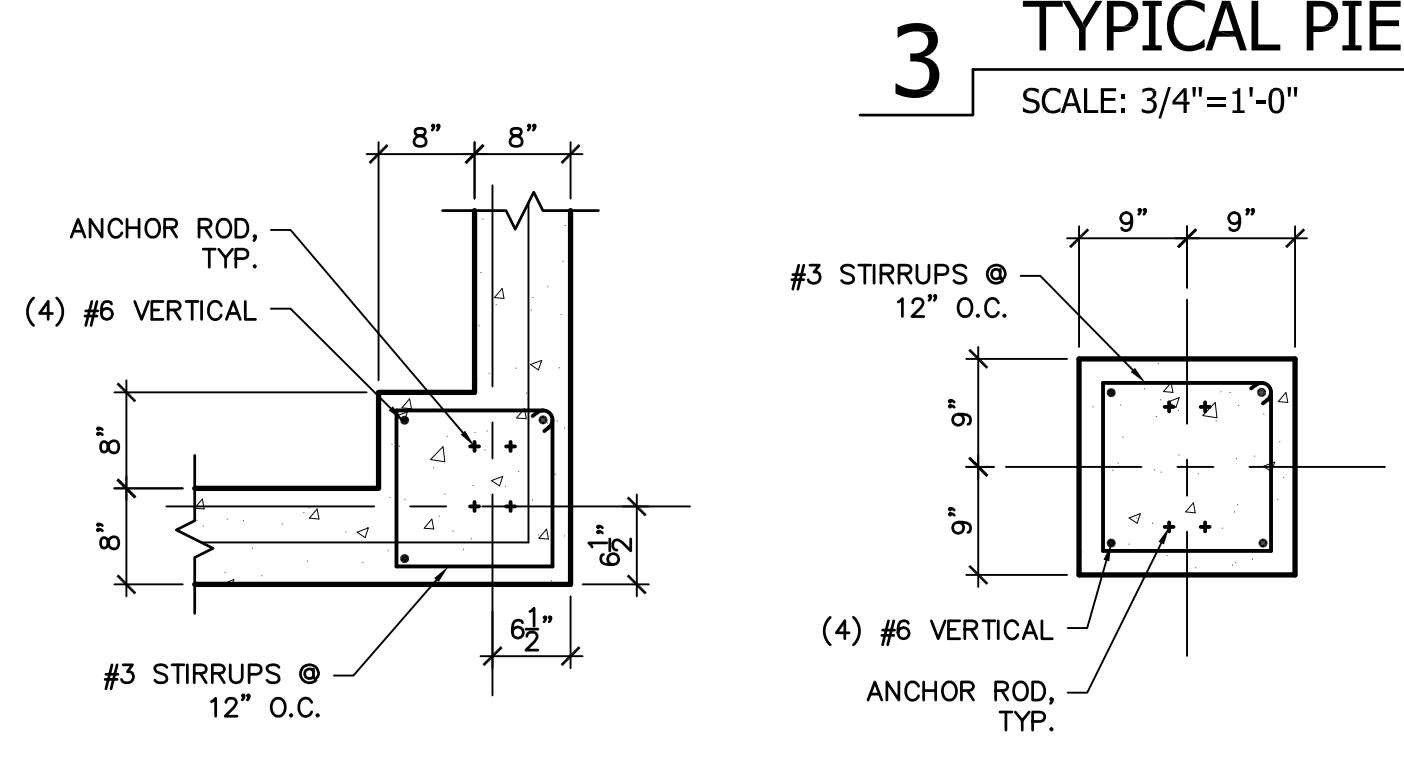
7 TYPICAL SLAB DETAIL
SCALE: N.T.S.



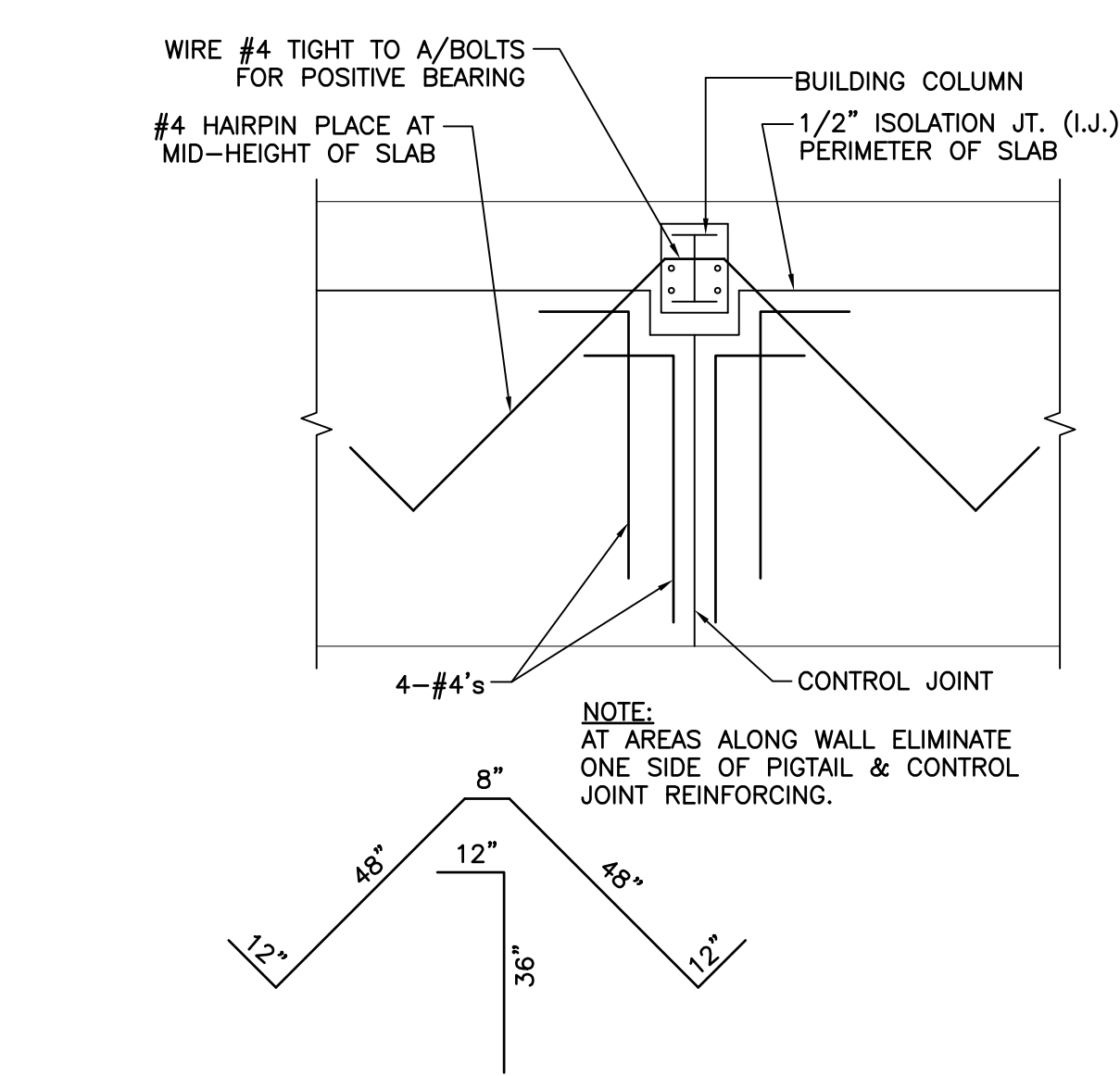
8 CONTROL JOINT DETAIL
SCALE: N.T.S.



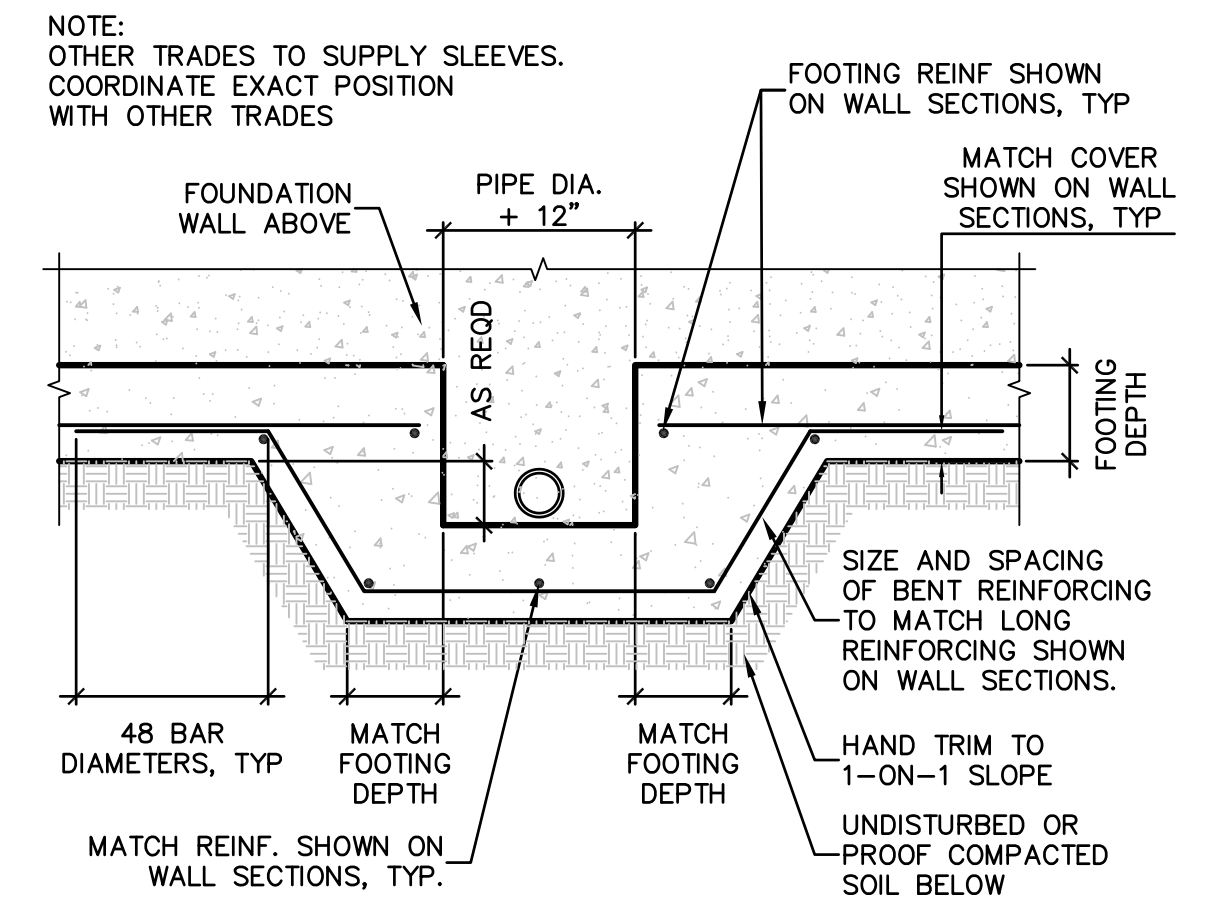
4 PIER DETAILS
SCALE: 3/4"=1'-0"



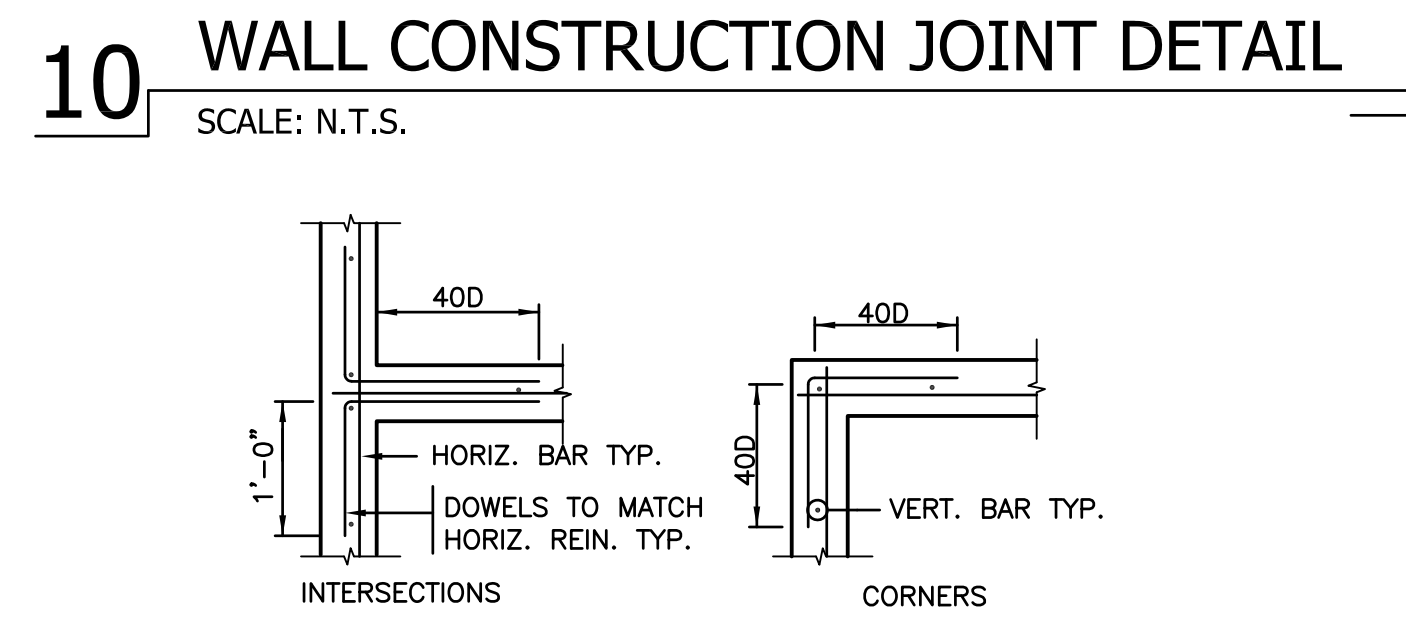
9 CONSTRUCTION JOINT DETAIL
SCALE: N.T.S.



5 HAIR PIN REINFORCING DETAIL
SCALE: N.T.S.



6 FOOTING PENETRATION DETAIL
SCALE: N.T.S.



10 WALL CONSTRUCTION JOINT DETAIL
SCALE: N.T.S.

- FIRST HORIZ. BAR SHALL BE PLACED 6" ABOVE TOP OF FTG. AND LAST HORIZ. BAR SHALL BE PLACED 2" BELOW TOP OF WALL.
- CORNERS & INTERSECTIONS OF WALLS SHALL BE REINFORCED WITH ANGLE BARS - THE SAME SIZE AND SPACING AS LARGEST CALLED FOR IN ADJACENT WALL. THESE BARS SHALL BE AT LEAST 4'-0" LONG AND SHALL LAP OTHER BARS AT LEAST 1'-6".

11 FOUNDATION WALL REINFORCING DETAIL
SCALE: N.T.S.

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Consultant

Notes

ELECTRICAL GENERAL NOTES

- ALL GENERAL NOTES, SYMBOL LIST & DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
- ALL WORK PERFORMED ON THIS CONTRACT SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE IN COMPLIANCE WITH NEC, NFPA, IBC, OSHA, AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
- THESE DRAWINGS ARE, IN GENERAL, MADE TO SCALE BUT ALL MEASUREMENTS SHALL BE TAKEN FROM FIGURED DIMENSIONS, AND NOT BY SCALING.
- THE ELECTRICAL CONTRACTOR SHALL CONFER WITH ALL OTHER TRADES RELATIVE TO THE LOCATION OF APPARATUS AND EQUIPMENT AND SELECT LOCATIONS SO AS NOT TO CONFLICT WITH WORK OF OTHER TRADES.
- LIGHTING FIXTURE MANUFACTURERS NAME & MODEL NUMBER ARE USED FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED.
- ALL EQUIPMENT SHOWN ON THESE DRAWINGS IS INTENDED TO BE GENERALLY REPRESENTATIVE OF THE EQUIPMENT WHICH WILL BE INSTALLED UNDER THIS CONTRACT, BUT IT SHALL NOT BE ASSUMED THAT THE DRAWINGS INDICATE THE SPECIFIC CONFIGURATION, ARRANGEMENT OR POINTS OF CONNECTION OF THE ACTUAL EQUIPMENT UNLESS NOTED OTHERWISE.
- CIRCUIT BREAKERS USED FOR LIGHTING CIRCUITS SHALL BE SWITCH DUTY RATED AND APPROVED FOR USE WITH FIXTURES. CIRCUIT BREAKERS USED FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED.
- ALL HOME RUNS FOR LIGHTING OR POWER CIRCUITS LONGER THAN 150 FEET SHALL BE INCREASED ONE SIZE. (IE: #12 TO #10).
- ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS SHALL BE SIZED FOR THE O.C.D. RATING FOR THAT CIRCUIT ACCORDING TO NEC ART 310 UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. IN NO CASE SHALL CONDUCTORS SMALLER THAN NO. 12 AWG BE USED FOR POWER OR LIGHTING CIRCUITS.
- PROVIDE 3/8" NYLON ROPE IN ALL EMPTY SERVICE RACEWAYS.
- ALL SLEEVES AND OTHER PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE SEALED AFTER CABLE INSTALLATION WITH A FIRE RETARDANT COMPOUND.
- THE CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AROUND ALL CONDUITS, CABLES AND ELECTRICAL EQUIPMENT AT ALL PARTITIONS PIERCED PER NEC 300.21 AND IBC.
- THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL SEISMIC REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT UNDER IBC
- GROUNDING SHALL BE PER N.E.C. ARTICLE 250. INSTALL GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS.
- ALL WIRING SHALL BE IN CONDUIT.
- REMOVE EQUIPMENT, FIXTURES AND DEVICES THAT ARE NOT BEING REUSED AND DISCARD. OWNER HAS THE OPTION TO KEEP ANY MATERIAL DESIRED. EXISTING FIXTURES SCHEDULED FOR REUSE SHALL BE CLEANED.
- PROVIDE ARC FLASH LABELS ON EQUIPMENT AS REQUIRED BY NFPA 70 - ART. 110.16.
- PROVIDE AVAILABLE FAULT CURRENT VALUES AND DATE AS REQUIRED BY NFPA 70 - ART. 110.24. UTILITY SHALL PROVIDE THESE VALUES (1/2 CYCLE SYMMETRICAL RMS).
- WHERE THE FAA AND CSI SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL BE REQUIRED.

GENERAL ABBREVIATIONS

ABBREVIATIONS	DESCRIPTIONS
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
C	CONDUIT
CS	CONDUIT SLEEVE
CB	CIRCUIT BREAKER
CL	CENTER LINE
CR	CASEWORK RECESSED OUTLET
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
DT	DISTRIBUTION TRANSFORMER
DW	DISHWASHER
DWG	DRAWING
EBB	ELECTRIC BASEBOARD HEATER
E.C.	ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EX	EXISTING EQUIPMENT (AS NOTED)
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OWNER
FC	FAN COIL
FLA	FULL LOAD AMPS
GD	GARBAGE DISPOSER
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GND	GROUND
GRC	GALVANIZED RIGID STEEL CONDUIT
H	HUMIDIFIER
HD	HEAT DETECTOR
HH	HAND HOLE
HP	HORSEPOWER / HEAT PUMP
HPS	HIGH PRESSURE SODIUM
HRU	HEAT RECOVERY UNIT
HV	HIGH VOLTAGE
HWP	HOT WATER CIRC. PUMP
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
IR	INFRARED
KW	KILOWATT
KWH	KILOWATT HOUR
LIG	LONG/INSTANTANEOUS/GROUND FAULT LIGHTING
LTG	LIGHTING
MB	MAIN BREAKER
MC	METAL CLAD
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MD	MAIN DISCONNECT
MDP	MAIN DISTRIBUTION PANEL
MH	MAN HOLE / METAL HALIDE
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
MMC	MAINE MEDICAL CENTER
MTD	MOUNTED
MW	MICROWAVE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE (NFPA-70)
NF	NOT FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON METALLIC
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	OVER COUNTER OUTLET
OCD	OVERCURRENT DEVICE
OSHA	PULL BOX
PB	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PT	POTENTIAL TRANSFORMER
RECP	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RF	RETURN FAN
RGE	RANGE
RGS	RIGID GALVANIZED STEEL CONDUIT
RH	RANGE HOOD
SF	SUPPLY FAN
SIN	SOLID NEUTRAL
TBD	TO BE DETERMINED
TP	TAMPER PROOF
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
WM	INSTALL WITH "WIREMOLD"
XFMR	TRANSFORMER

PANEL & CIRCUIT SYMBOLS

SYMBOLS	DESCRIPTIONS
	PANELBOARD - FLUSH MOUNTED AT 6'-6" TO TOP. PANELBOARD - SURFACE MOUNTED AT 6'-6" TO TOP.
	INDICATES PARTIAL CIRCUIT INDICATES CIRCUIT NUMBER INDICATES PANEL
	ELECTRICAL FEED TO EQUIPMENT; ARROW INDICATES HOMERUN TO PANELBOARD OR AS NOTED. INDICATES CIRCUIT IN CONDUIT RUN IN FLOOR OR UNDERGROUND. INDICATES CONTROL WIRING BY ELECTRICAL
	TRANSFORMER, SIZE & TYPE AS INDICATED
	JUNCTION BOX - SIZED IN ACCORDANCE WITH NEC - "C" INDICATES MOUNTING IN CEILING SPACE.
	3 POLE, NON-FUSIBLE DISCONNECT SWITCH 30 = AMPACITY, VOLTAGE AS REQ'D. 3 POLE FUSIBLE DISCONNECT SWITCH 60 = CLIP SIZE, 40 = FUSE SIZE VOLTAGE AS REQ'D
	3 POLE WEATHERPROOF DISCONNECT SWITCH SIZE & CONFIGURATION AS NOTED ABOVE
	MANUAL STARTER - SIZE AS REQUIRED
	MOTOR, HP AS INDICATED COORDINATE W/ ACTUAL EQUIPMENT FURNISHED.
	COMBINATION MAGNETIC STARTER - NEMA SIZE AS REQUIRED (MINIMUM SIZE 1) PROVIDE W/ H-O-A SWITCH AND GREEN RUN LIGHT ON COVER.
	MAGNETIC STARTER - NEMA SIZE AS REQUIRED (MINIMUM SIZE 1) PROVIDE W/ H-O-A SWITCH AND GREEN RUN LIGHT ON COVER. - FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SIZE AS NOTED.
	AUTOMATIC TRANSFER SWITCH
	JUNCTION BOX IN ACCESSIBLE LOCATION WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT AS NOTED.
	TYPE 'EVA' HAZARDOUS LOCATION SEALING FITTING (U.L. LISTED FOR USE IN VERTICAL OR HORIZONTAL CONDUIT RUNS).

LIGHTING SYMBOLS

SYMBOLS	DESCRIPTIONS
	WALL MOUNTED EXTERIOR LIGHT
	LENSED LED STRIP - AS NOTED ON DRAWINGS
	LENSED LED STRIP - AS NOTED ON DRAWINGS ON DRAWINGS. SHADING DENOTES BATTERY BACKUP.
	EMERGENCY EXIT SIGN. SEE LIGHTING SCHEDULE FOR SPECIFICATION.

RECEPTACLE OUTLET SYMBOLS

SYMBOLS	DESCRIPTIONS
	LETTER IS CIRCUIT CONTROL GROUP.
	"42" INDICATES MOUNTED AT 42" A.F.F.
	"GFCI" / "GFI" INDICATES GFI OUTLET (PROTECTS DOWNSTREAM RECEPTACLES ON SAME CIRCUIT.)
	"WM" INDICATES DEVICE MOUNTED IN "WIREMOLD"
	"E" INDICATES EXISTING
	"TR" INDICATES TAMPER RESISTANT
	"OC" INDICATES OVER COUNTER
	"WP" INDICATES WEATHER RESISTANT DEVICE IN A WEATHER PROOF IN-SUE COVER
	MOUNT WITH GROUND TERMINAL AT TOP. DEVICES SHALL BE HOSPITAL GRADE, SEE SPEC.
	SIMPLEX CONVENIENCE RECEPTACLE MOUNTED AT +18" OR AS NOTED.
	DUPLEX RECEPTACLE OUTLET NEMA 5-20R, HEAVY DUTY. MOUNTED AT +18" OR AS NOTED. SELF-ILLUMINATING, AND BACKPLATE. DEVICES SHALL BE RED WHEN CONNECTED TO CRITICAL OR EQUIPMENT PANELS.
	DOUBLE DUPLEX RECEPTACLE OUTLET (DOUBLE DUPLEX) NEMA 5-20R, HEAVY DUTY. MOUNTED AT +18" OR AS NOTED. SELF-ILLUMINATING, AND BACKPLATE. DEVICES SHALL BE RED WHEN CONNECTED TO CRITICAL OR EQUIPMENT PANELS.
	GFCI DUPLEX RECEPTACLE OUTLET
	RANGE OUTLET NEMA 14-50R ("D" INDICATES DRYER OUTLET NEMA 14-30R)
	SPECIAL PURPOSE CONNECTION.
	EUROPEAN 220V DUPLEX RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET W/ COVER. NEMA 5-20R
	FLOOR DUPLEX RECEPTACLE OUTLET W/ COVER. NEMA 5-20R
	FLOOR SPECIAL PURPOSE OUTLET LETTER(S) BESIDE SYMBOL INDICATES ACTUAL EQUIPMENT SERVED.

LIGHTING CONTROL SYMBOLS

SYMBOLS	DESCRIPTIONS
	SINGLE POLE SWITCH MOUNTED AT +48" OR AS NOTED.
	THREE WAY SWITCH MOUNTED AT +48" OR AS NOTED.
	SLIDE CONTROL DIMMER AT +48" OR AS NOTED, PROVIDE SWITCH FOR FIXTURES ACTUALLY SERVED.
	LOW VOLTAGE SWITCH LIGHT MOUNTED AT +48" OR AS NOTED. SEE DETAILS FOR SWITCH CONFIGURATION(S)
	SINGLE POLE SWITCH W/ PILOT LIGHT MOUNTED AT +48" OR AS NOTED.
	H.P. RATED MANUAL MOTOR STARTER (WEATHERPROOF WHERE OUTSIDE).
	OS - DUAL TECH. OCCUPANCY SENSOR WALL SWITCH OS2 - DUAL TECH. OCCUPANCY SENSOR TWO BUTTON/LOAD WALL SWITCH
	OCCUPANCY SENSOR (CEILING MOUNT) . COMPATIBLE WITH ROOM CONTROLLER/ SWITCHING SYSTEM OR/AND LIGHTING CONTROL PANEL. 'H' DENOTES HIGH CEILING TYPE. 'R' DENOTES HVAC RELAY
	ROOM CONTROLLER (ABOVE CEILING MOUNT) LRC - LOCAL SWITCH CONTROL. LDC - LOCAL DIMMING CONTROL. NRC - NETWORK SWITCH CONTROL. NDC - NETWORK DIMMING CONTROL. THE # INDICATES NUMBER OF LOADS. SEE DETAILS.
	UL LISTED 924 EMERGENCY CONTROL RELAY

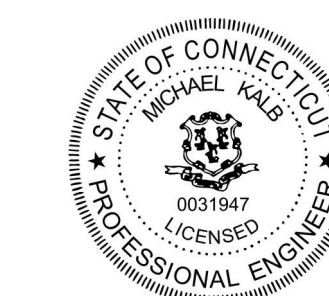
Revision	By	Appd	YYYY.MM.DD

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50845_E-001_ELEC_DTL5	Dwn.	Dsgn.	Chkd.

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CONSTRUCT 4 - UNIT HANGARS

Meriden, CT

Title
ELECTRICAL LEGEND AND GENERAL NOTES

Project No.
179450845

Scale
AS SHOWN

Revision Sheet
0 10 of 14

Drawing No.

E.001

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Consultant

NOTES:

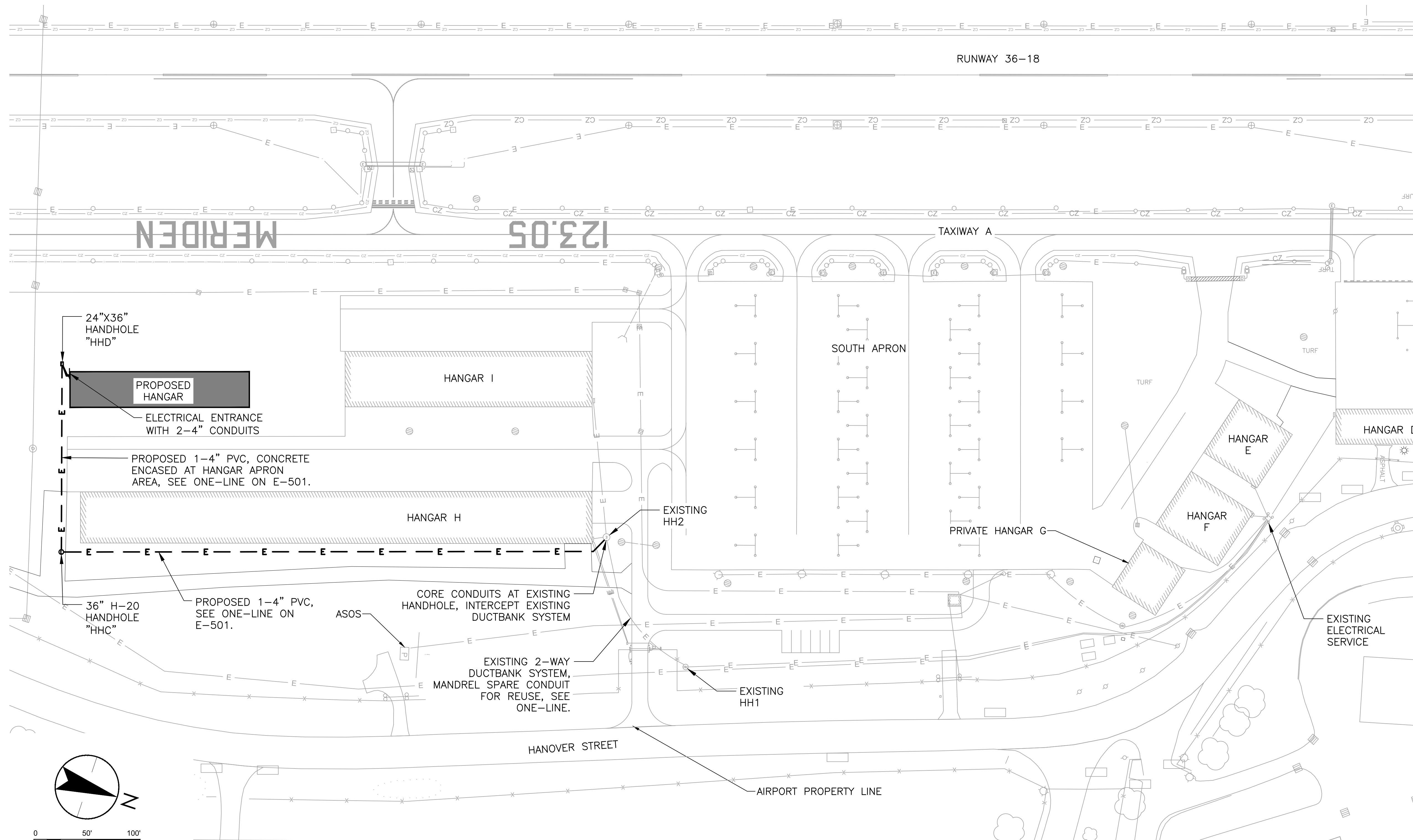
1. REFER TO ONE-LINE DIAGRAM ON DRAWING E-501 FOR CONDUIT AND CABLE SIZES.
2. COORDINATE LOCATION OF PANELBOARDS WITH HANGAR SUPPLIER.

D

C

B

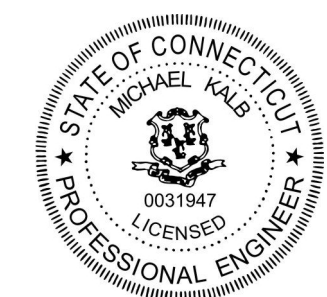
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Notes

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CONSTRUCT 4 - UNIT HANGARS

Meriden, CT

Title
ELECTRICAL SITE PLAN

Project No.
179450845

Scale
AS SHOWN

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0 11 of 14

Drawing No.

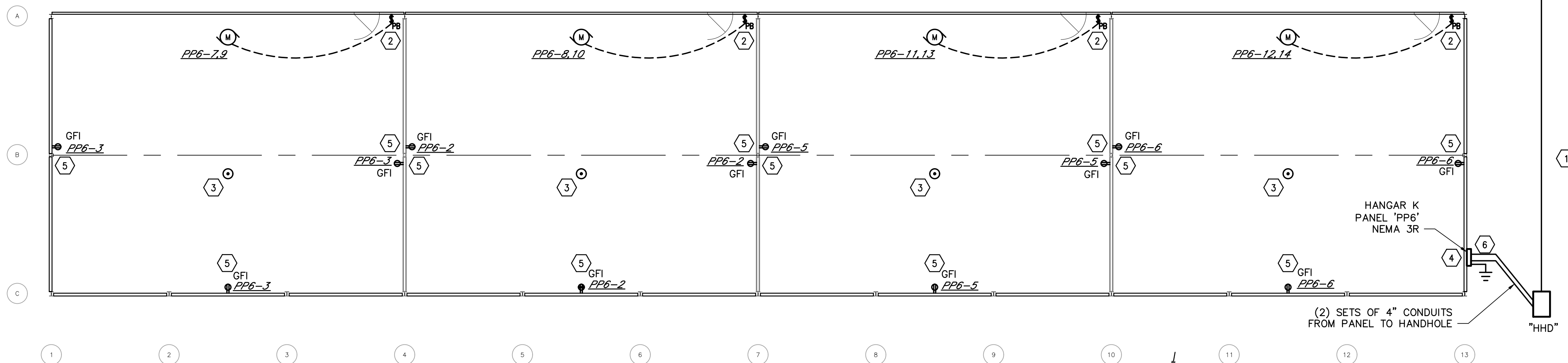
E.101

GENERAL NOTES:

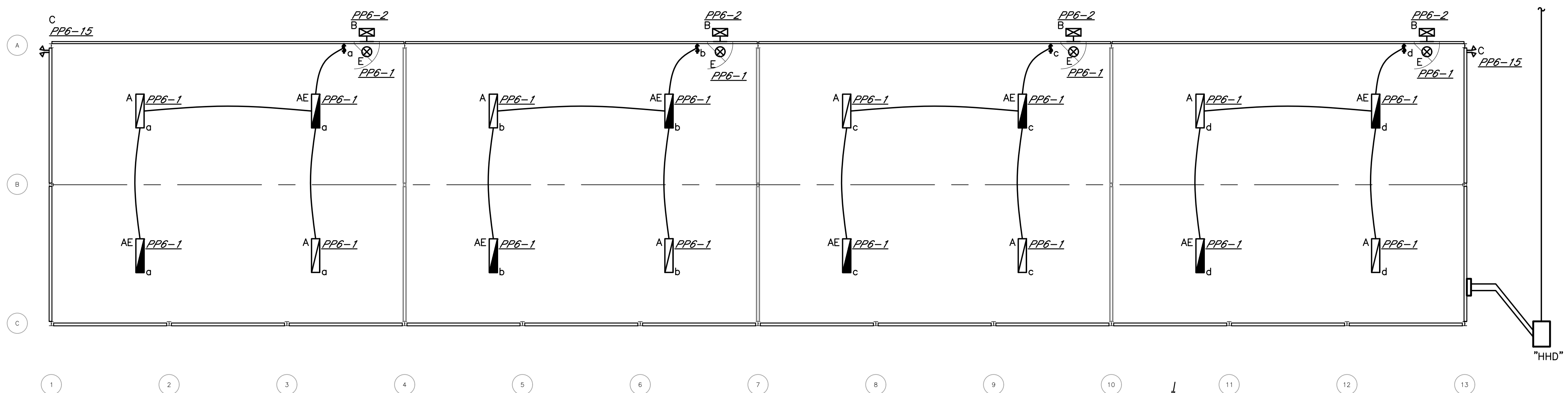
1. DOOR OPERATOR, PUSHBUTTON CONTROLLER AND MOTOR FURNISHED BY BUILDING CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE BRANCH CIRCUIT CONNECTION TO EACH OPERATOR (TYP.).
2. PERFORM ALL WORK IN ACCORDANCE WITH NEC SECTION 513 (AIRCRAFT HANGARS) AND NFPA 409 (AIRCRAFT HANGARS).
3. ELECTRICAL CLASSIFICATION OF ENTIRE AREA OF HANGAR SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 OR ZONE 2 LOCATION UP TO A LEVEL OF 18 INCHES ABOVE THE FLOOR AS IDENTIFIED IN NEC 513.3(B). ALL WIRING AND DEVICES WHENEVER POSSIBLE SHOULD BE ROUTED ABOVE THE HEIGHT OF 18 INCHES. IF THIS IS NOT POSSIBLE PROVIDE SEAL OFF FITTINGS PER NEC.
4. ALL FIXED WIRING IN HANGAR NOT INSTALLED IN A CLASS I LOCATION (AS CLASSIFIED IN 513.3) SHALL BE OF METAL RACEWAY OR TYPE MC CABLE PER NEC 513.7. MC CABLE SHALL HAVE A COPPER GREEN GROUND CONDUCTOR. FASTEN CABLE SECURELY PER NEC.
5. UNDERGROUND WIRING IN THE HANGAR IDENTIFIED IN NEC 513.8 REQUIRES ALL CONDUITS PENETRATING THE FLOOR SHALL BE PROVIDED WITH BOUNDARY XP SEALS IN ACCORDANCE WITH 501.15.

SHEET KEYNOTES:

1. PROVIDE UNDERGROUND CONDUIT TO PANEL PP (NEMA 3R ENCLOSURE) LOCATED ON THE SOUTHWEST EXTERIOR HANGAR WALL. APPROXIMATE DISTANCE IS 700' FROM EXISTING MANHOLE AT HANGAR 'H' AND UTILIZE EXISTING CONDUIT FROM MANHOLE TO EXISTING ELECTRICAL SERVICE APPROXIMATE DISTANCE 760', REFER TO DETAIL #4 ON DRAWING E-501 AND DRAWING E-101.
2. PROVIDE BRANCH CIRCUIT TO DOOR CONTROLLER FURNISHED BY DOOR VENDOR. MOUNT CONTROLLER ON THE SIDE OF DOOR JAMB OR WALL AS SHOWN. ELECTRICAL CONTRACTOR SHALL INSTALL VENDOR FURNISHED PUSH BUTTON CONTROLLER AND ALL ASSOCIATED WIRING TO MOTOR. EXACT LOCATION TO BE COORDINATED WITH DOOR VENDOR. WIRE SAFETY DEVICE AS REQUIRED TO STOP DOORS.
3. PROVIDE AIRCRAFT GROUNDING RECEPTACLE. SEE DETAIL #1 ON DRAWING E-002 FOR ADDITIONAL INFORMATION.
4. SECURE PANEL AND CONDUIT TO OSB SHEAR WALL LOCATED IN CORNER.
5. PROVIDE ADDITIONAL WOOD BOARDS TO BE SECURED TO NAILERS AS NEEDED FOR PROPER MOUNTING AND SECURING OF CABLES AND RECEPTACLE BOXES TO WALLS. BOARDS SHALL BE CUT STRAIGHT AND GIVE A NEAT APPEARANCE AND BE SCREWED TO NAILERS WITH GALVANIZED COATED SCREWS.
6. PROVIDE A GROUNDING ELECTRODE CONDUCTOR AND ELECTRODES PER NEC 250. SEE PANEL NOTES.



HANGAR POWER PLAN
SCALE: 1/8" = 1'-0"

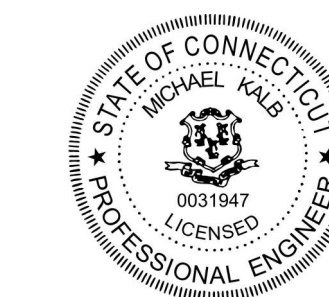


HANGAR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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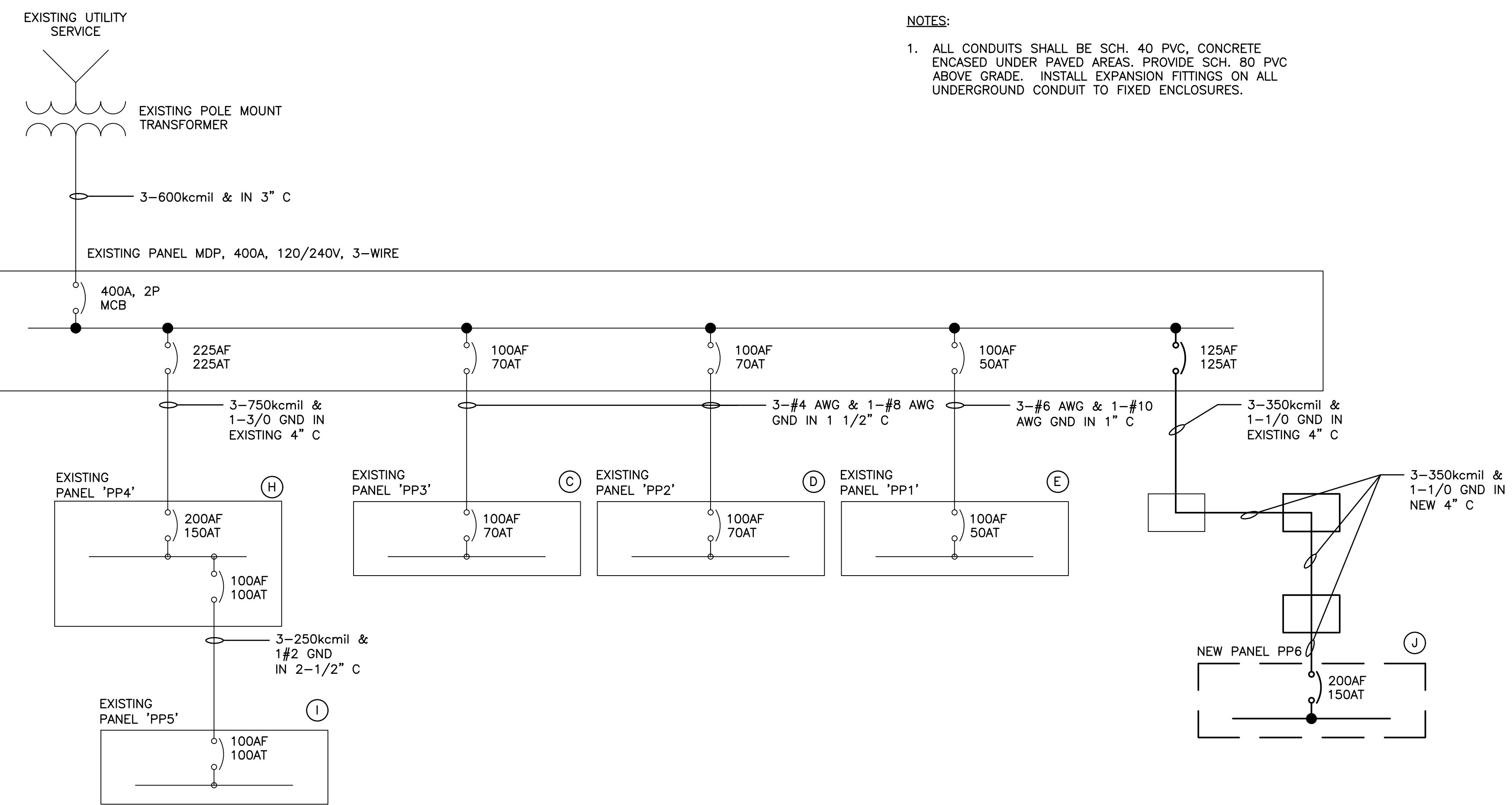
CONSTRUCT 4 - UNIT HANGARS

Meriden, CT

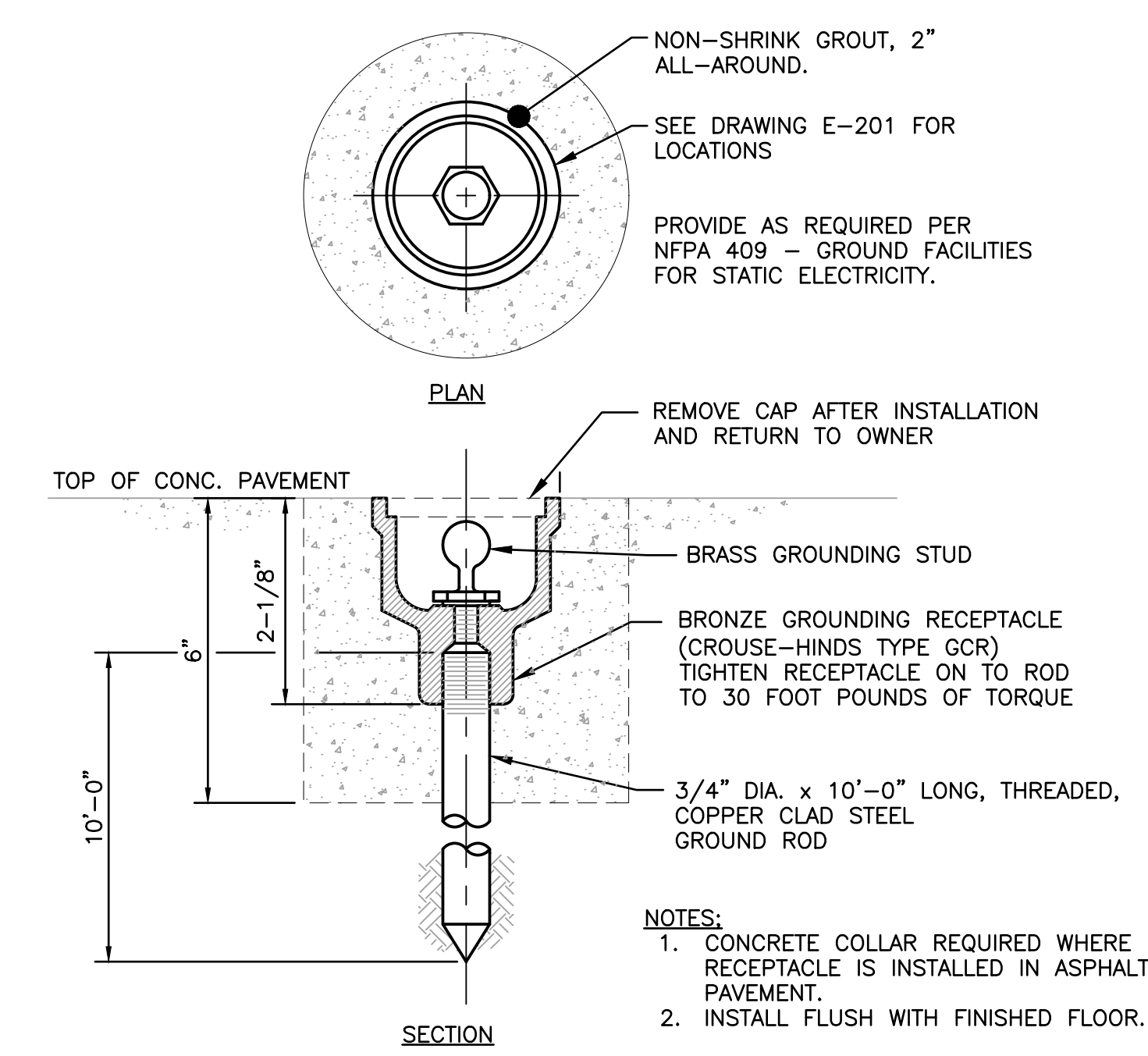
Title
HANGAR POWER AND LIGHTING PLAN

Project No. 179450845	Scale AS SHOWN
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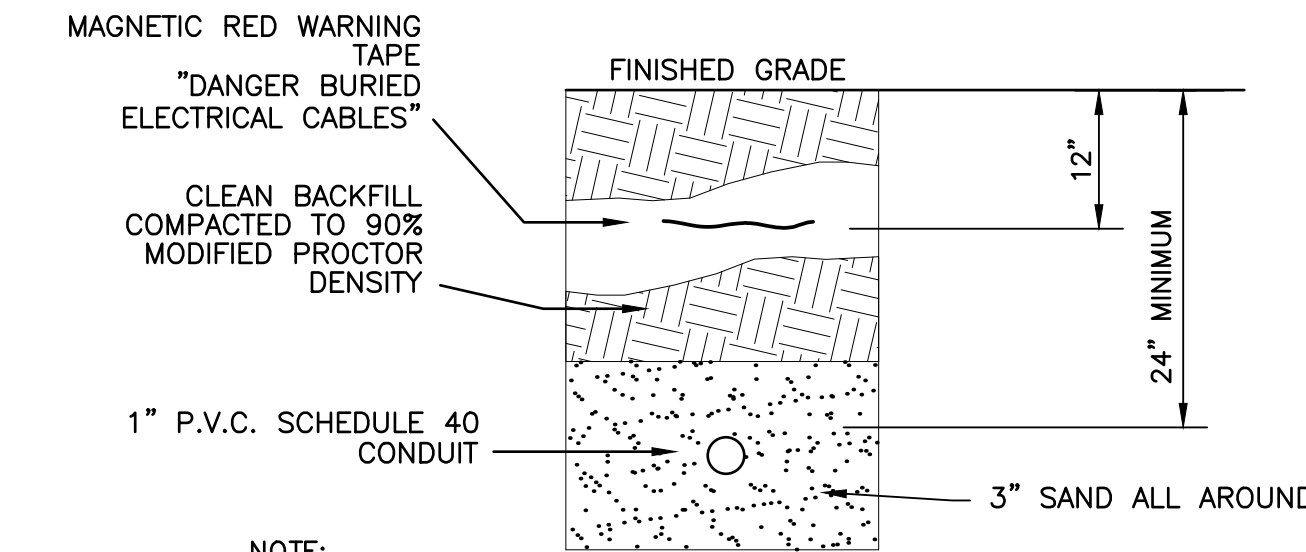
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NOTES:
1. ALL CONDUITS SHALL BE SCH. 40 PVC, CONCRETE ENCASED UNDER PAVED AREAS. PROVIDE SCH. 80 PVC ABOVE GRADE. INSTALL EXPANSION FITTINGS ON ALL UNDERGROUND CONDUIT TO FIXED ENCLOSURES.

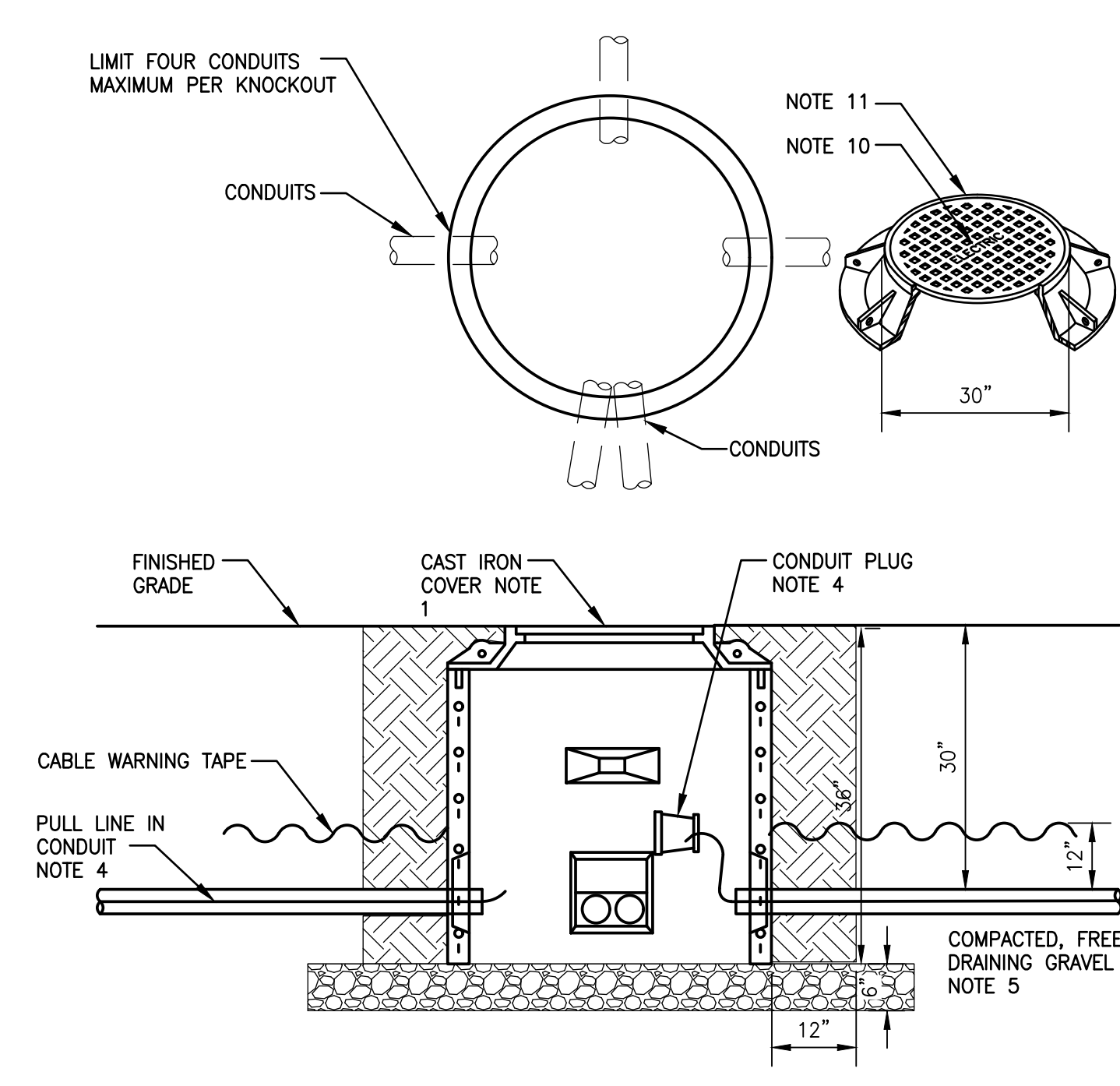


1 AIRCRAFT GROUNDING RECEPTACLE
N.T.S.



2 TYPICAL UNDERGROUND CONDUIT DETAIL
N.T.S.

4 ELECTRICAL ONE-LINE DIAGRAM
N.T.S.



5 ELECTRICAL 36" HANDHOLE DETAIL
NOT TO SCALE

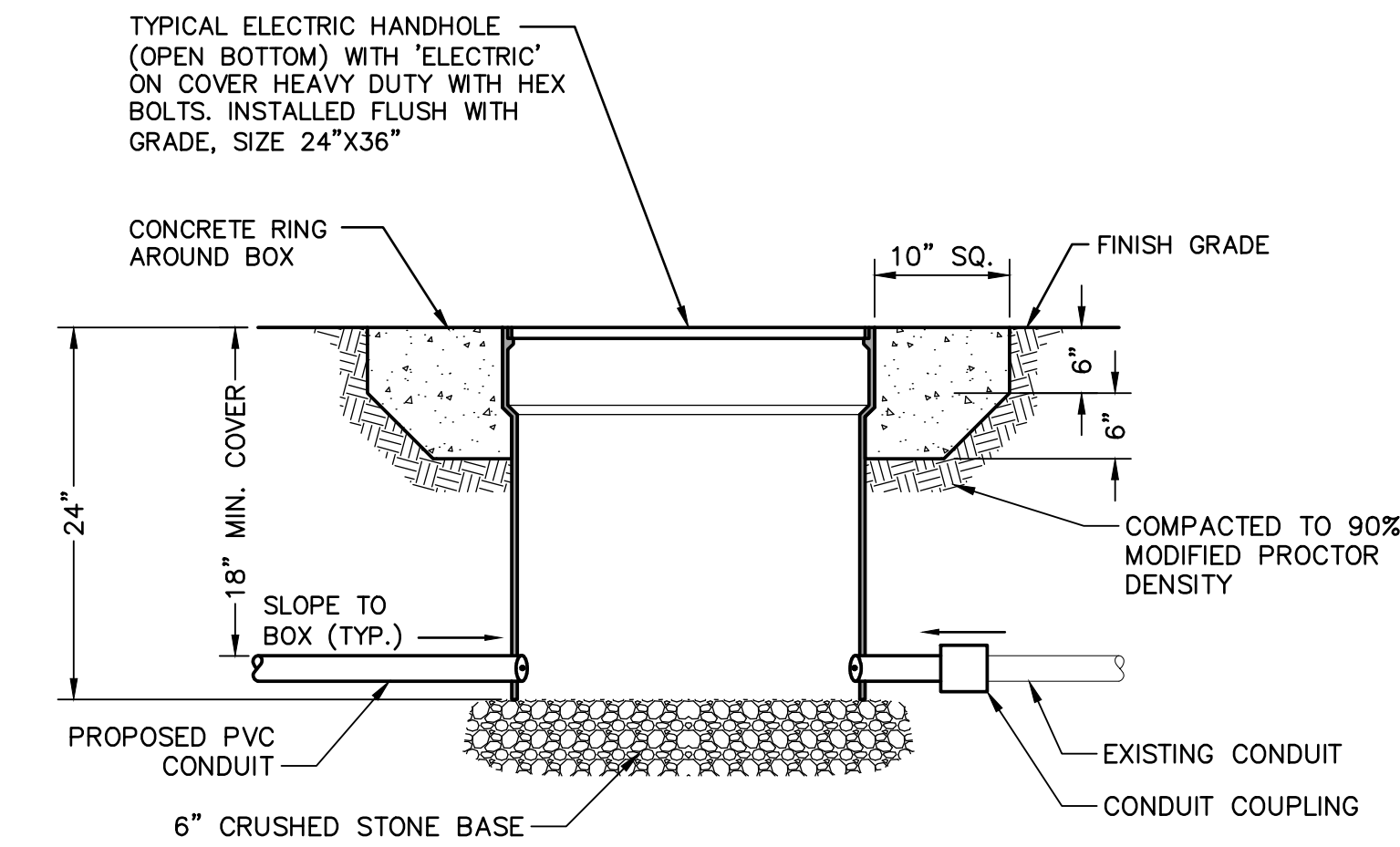
HANDHOLE GENERAL NOTES:

1. INSTALL 36"D X 36"H ROUND OR 36" SQUARE X 36"H HANDHOLE, AND CAST IRON FRAME.
2. INSTALL CONDUIT, WITH ALL JOINTS CEMENTED, THROUGH KNOCKOUT TO 4" INSIDE HANDHOLE. TERMINATE CONDUIT RUN WITH END BELL. CONDUIT DESTINATION TO BE PERMANENTLY MARKED ON CONDUIT END. CONDUIT SIZE AS SHOWN ON DRAWING SCH. 40 PVC. LIMIT (4) 4" DIAMETER CONDUITS PER KNOCKOUT.
3. GAPS AROUND CONDUIT AT KNOCKOUT OPENINGS SHALL BE SEALED WITH CEMENT MORTAR TO PREVENT BACKFILL FROM ENTERING HANDHOLE.
4. INSTALL 1/4" DIAMETER NYLON PULL LINE IN EACH DUCT, INCLUDING 10' SLACK, AND SECURE TO CONDUIT PLUG. PLUGGED CONDUIT TO BE LEFT ACCESSIBLE.
5. INSTALL ON VIRGIN OR WELL TAMPED GRAVEL. WHERE POOR SOIL EXISTS, REMOVE TO 6" BELOW BOTTOM OF HANDHOLE AND BACKFILL WITH COMPACTED CLEAN GRAVEL, FREE OF FOREIGN MATTER AND DEBRIS, AND EXTENDING 12" PST EDGE OF STRUCTURE. REMAINING BACKFILL SHALL NOT CONTAIN ASHES, FROZEN MATERIAL DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIA.
6. WHEN INSTALLING CABLE, UTILIZE PULLING EYELETS PROVIDE IN HANDHOLE.
7. THE GRAY CAST IRON SHALL CONFORM TO ASTM A48-1983 CLASS 30-B.
8. DESIGN LOADING SHALL BE IN ACCORDANCE WITH AASHTO HS20-1983.
9. (5) 1-1/4" DIA. HOLES, 5" FROM EDGE AND 72 DEGREE APART.
10. "ELECTRIC" LETTERS 2-1/2" HIGH.
11. FOUNDRY NAME OR INSIGNIA AND DATE (YEAR MANUFACTURED) SHALL BE CAST IN UNDERSIDE OF COVER.
12. RIBS TO BE TAPERED FROM 1/2" TO 3/4".
13. LIFTING NOTCH ADJACENT TO EACH PICK HOLE.
14. THE 30" COVER FITS INTO THE 30" FRAME. WEIGHT OF 30" COVER APPROXIMATELY 265 POUNDS.

KEEP 5 FOOT CLEAR OF AIRCRAFT ENGINE & FUEL TANK AREA FROM ALL ELECTRICAL EQUIPMENT & CONNECTIONS

PROVIDE WARNING SIGN WITH RED BACKGROUND AND WHITE TEXT.

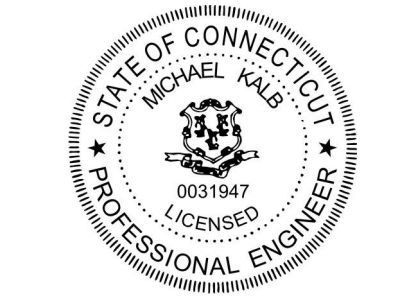
6 CLEARANCE WARNING SIGN
NOT TO SCALE



3 24"x36" ELECTRICAL HANDHOLE DETAIL
NOT TO SCALE
NOTE: PROVIDE DIMENSIONS AS REQUIRED BY NEC

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CONSTRUCT 4 - UNIT HANGARS

Meriden, CT

Title
ELECTRICAL ONE-LINE AND DETAILS

Project No. 179450845 Scale AS SHOWN

Revision Sheet 0 13 of 14 Drawing No.

