

ITEM NO. 2A

TOTAL NUMBER OF SHEETS = 21
CONTRACT NO. = MR017

SUMMARY OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY
AR 108158	1/C #8 5 KV UNDERGROUND CABLE IN UNIT DUCT	L. F.	7,700	
AR 110504	4-WAY CONCRETE ENCASED DUCT	L. F.	44	
AR 125410	MITL - STAKE MOUNTED	EACH	30	
AR 125415	MITL - BASE MOUNTED	EACH	4	
AR 125441	TAXI GUIDANCE SIGN, 1 CHARACTER	EACH	2	
AR 125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EACH	1	
AR 125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	1	
AR 125505	MIRL - STAKE MOUNTED	EACH	9	
AR 125510	MIRL - BASE MOUNTED	EACH	4	
AR 125901	REMOVE STAKE MOUNTED LIGHT	EACH	7	
AR 125904	REMOVE TAXI GUIDANCE SIGN	EACH	1	
AR 125961	RELOCATE STAKE MOUNTED LIGHT	EACH	6	
AR 125967	RELOCATE REILS	PAIR	1	
AR 150510	ENGINEER'S FIELD OFFICE	L. S.	1	
AR 150560	TEMPORARY THRESHOLD	L. S.	1	
AR 152410	UNCLASSIFIED EXCAVATION	C. Y.	50,272	
AR 152440	BORROW EXCAVATION	C. Y.	10,815	
AR 156510	SILT FENCE	L. F.	1,006	
AR 156512	BALES	EACH	63	
AR 156540	RIPRAP	S. Y.	10	
AR 162508	CLASS E FENCE, 8'	L. F.	12,643	
AR 162624	CLASS E GATE, 24'	EACH	2	
AR 201610	BITUMINOUS BASE COURSE	TON	6,497	
AR 201630	BITUMINOUS TEST SECTION	EACH	1	
AR 209606	CRUSHED AGGREGATE BASE COURSE, 6"	S. Y.	14,770	
AR 401610	BITUMINOUS SURFACE COURSE	TON	1,305	
AR 401650	BITUMINOUS PAVEMENT MILLING	S. Y.	885	
AR 602510	BITUMINOUS PRIME COAT	GAL.	5,169	
AR 603510	BITUMINOUS TACK COAT	GAL.	1,539	
AR 620520	PAVEMENT MARKING - WATERBORNE	S. F.	10,857	
AR 620900	PAVEMENT MARKING REMOVAL	S. F.	3,974	
AR 701436	36" RCP, CLASS III	L. F.	104	
AR 705526	6" PERFORATED UNDERDRAIN W/SOCK	L. F.	4,810	
AR 705630	UNDERDRAIN INSPECTION HOLE	EACH	14	
AR 705903	REMOVE UNDERDRAIN INSPECTION HOLE	EACH	2	
AR 751550	MANHOLE, 5'	EACH	1	
AR 752436	PRECAST REINFORCED CONCRETE FLARED END SECTION, 36"	EACH	2	
AR 801301	21" DRIFICE RESTRICTOR PLATE	EACH	1	
AR 801302	NEENAH R4341-A GRATE (OR APPROVED EQUAL)	EACH	1	
AR 901510	SEEDING	ACRE	20.8	
AR 908510	MULCHING	ACRE	20.8	

THE CITY OF MORRIS, ILLINOIS

MORRIS MUNICIPAL AIRPORT

JAMES R. WASHBURN FIELD

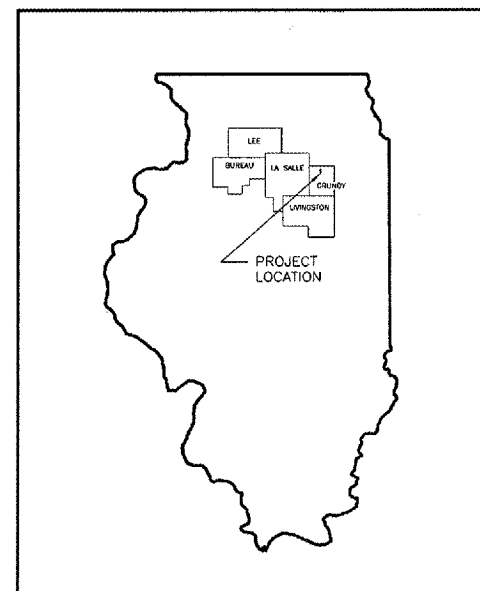
CONSTRUCTION PLANS
FOR
RUNWAY 18/36 SOUTH 1000' EXTENSION
WITH PARALLEL TAXIWAY
ILLINOIS PROJECT NO. C09-3358
A.I.P. PROJECT NO. 3-17-0071-B11

LATITUDE 41°-25'-31.8" LONGITUDE 88°-25'-7.2"
ELEVATION 584.39

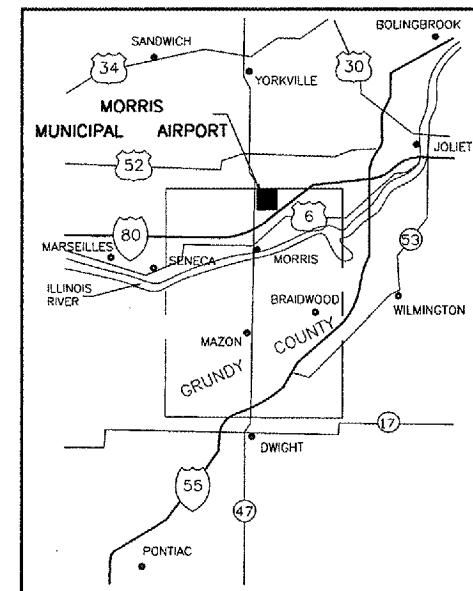
DATE: MAY, 2006
RUNWAY CATEGORY B, GROUP II

INDEX OF SHEETS

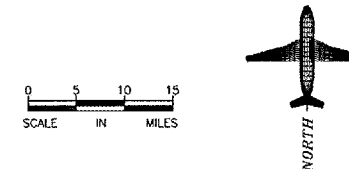
PAGE NO.	DESCRIPTION
1	COVER SHEET
2	CONSTRUCTION SAFETY PLAN
3	DIMENSIONAL LAYOUT PLAN
4	EROSION CONTROL PLAN
5	FENCING PLAN
6	UNDERDRAIN PLAN
7	TEMPORARY PAVEMENT MARKING PLAN AND DISPLACED THRESHOLD PLAN AND DETAILS
8	PERMANENT PAVEMENT MARKING PLAN AND DETAILS
9	ELECTRICAL PLAN AND DETAILS
10	ELECTRICAL DETAILS
11	FILLET AREA ELEVATIONS
12	RUNWAY PLAN AND PROFILE
13	TAXIWAY PLAN AND PROFILE
14	CONNECTING TAXIWAY PLAN AND PROFILE
15-21	CROSS SECTIONS



LOCATION MAP
NOT TO SCALE



VICINITY MAP



MAY 8, 2006

 PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-001717

Illinois Department of Transportation
Division of Aeronautics

APPROVED _____ CHIEF ENGINEER
DATE _____ 20__

BENCHMARK DATA		
DESCRIPTION	ELEVATION METRIC	ELEVATION ENGLISH
S.E. CORNER OF CONCRETE BASE FOR OLD WIND SOCK AT OFFICE BLDG.	179.558	(589.10)
BRASS PLUG IN WEST WALL @ GRACE LUTH. CHURCH	179.783	(589.84)

DESCRIPTION
MORRIS MUNICIPAL AIRPORT
SECTIONS 10 & 15, TOWNSHIP 34N., RANGE 7E. OF 3RD P.M. GRUNDY COUNTY, SARATOGA TOWNSHIP

UNDERGROUND UTILITY INFORMATION		
UTILITY SERVICE	PERSON TO CONTACT	TELEPHONE NO.
ELECTRIC - COMMONWEALTH EDISON	JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	1-800-892-0123
TELEPHONE - AT&T	JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	1-800-892-0123
NATURAL GAS - NORTHERN ILLINOIS GAS	JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	1-800-892-0123

CITY OF MORRIS
 APPROVED _____ MAYOR
 DATE _____ 20__
 APPROVED _____ CITY CLERK
 DATE _____ 20__

CHAMLIN ASSOCIATES
 PERU ILLINOIS MORRIS

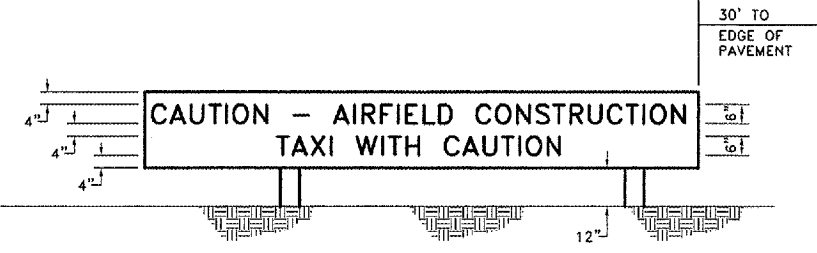
 SUBMITTED BY _____ ENGINEER
 DATE MAY 08 20 06
 JOB NO. 1002.584-1
 PROFESSIONAL DESIGN FIRM LICENSE NO.: 184-001717

CONSTRUCTION SEQUENCE AND SAFETY

CONTRACT NO. = MR017

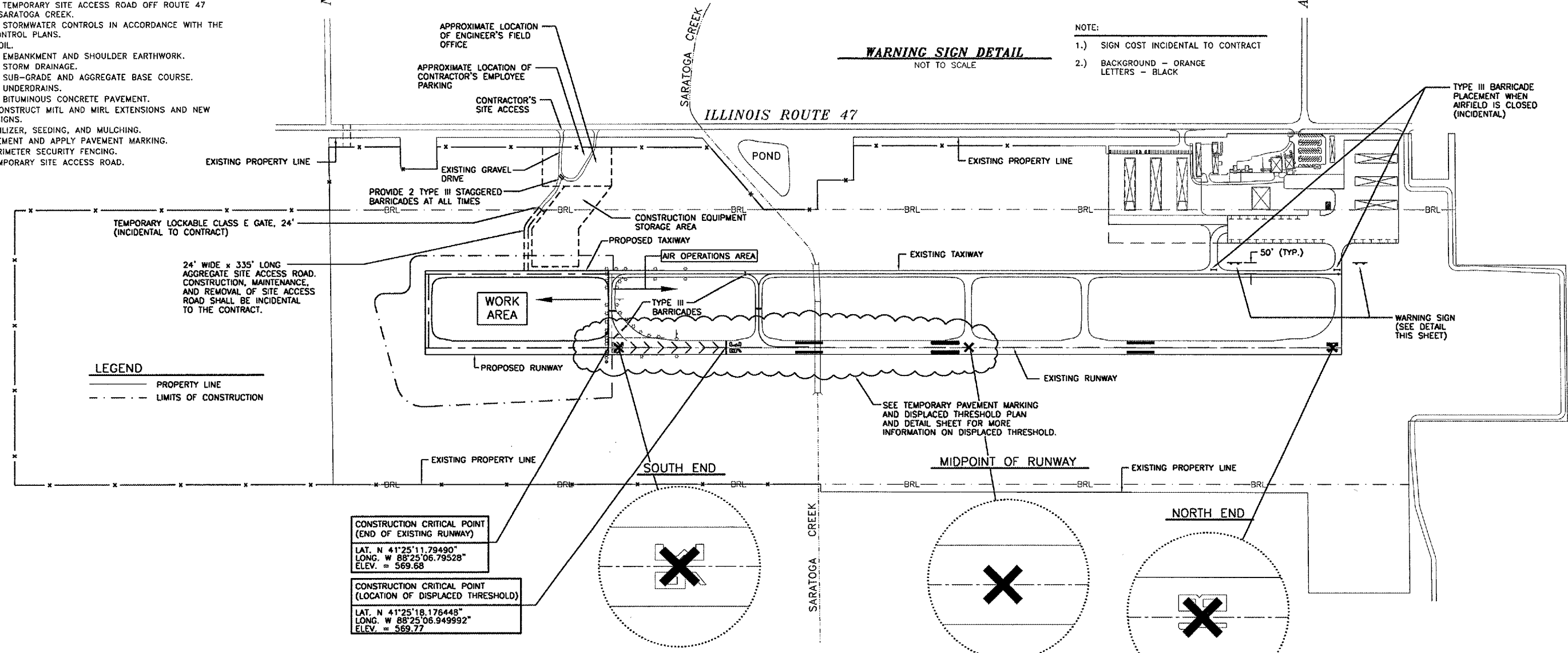
1. PHASE I: (UTILIZE EXISTING RUNWAYS AND TAXIWAYS FOR ACCESS.)
 - a. ISSUE NOTAM AND TEMPORARILY CLOSE RUNWAY 18/36.
 - b. PUT UP CONSTRUCTION SIGNAGE AND BARRICADES.
 - c. CONSTRUCT DISPLACED THRESHOLD, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY LIGHTING.
 - d. REMOVED CONFLICTING EXISTING PAVEMENT MARKINGS.
 - e. STAKE LIMITS OF AERONAUTICAL OPERATIONS AREA (AOA) AND LIMITS OF CONSTRUCTION.
 - f. RE-OPEN RUNWAY 18/36 WITH DISPLACED THRESHOLD.
2. PHASE II:
 - a. CONSTRUCT TEMPORARY SITE ACCESS ROAD OFF ROUTE 47 SOUTH OF SARATOGA CREEK.
 - b. CONSTRUCT STORMWATER CONTROLS IN ACCORDANCE WITH THE EROSION CONTROL PLANS.
 - c. STRIP TOPSOIL.
 - d. CONSTRUCT EMBANKMENT AND SHOULDER EARTHWORK.
 - e. CONSTRUCT STORM DRAINAGE.
 - f. CONSTRUCT SUB-GRADE AND AGGREGATE BASE COURSE.
 - g. CONSTRUCT UNDERDRAINS.
 - h. CONSTRUCT BITUMINOUS CONCRETE PAVEMENT.
 - i. INSTALL/ CONSTRUCT MITL AND MRL EXTENSIONS AND NEW GUIDANCE SIGNS.
 - j. APPLY FERTILIZER, SEEDING, AND MULCHING.
 - k. CLEAN PAVEMENT AND APPLY PAVEMENT MARKING.
 - l. INSTALL PERIMETER SECURITY FENCING.
 - m. REMOVE TEMPORARY SITE ACCESS ROAD.

3. PHASE III: (UTILIZE RUNWAYS AND TAXIWAYS FOR ACCESS.)
 - a. ISSUE NOTAM AND TEMPORARILY CLOSE RUNWAY 18/36.
 - b. MODIFY EXISTING LIGHTS TO MATCH NEW RUNWAY CONFIGURATION. INSTALL/ MODIFY EXISTING AIRPORT GUIDANCE SIGNAGE.
 - c. HOOK-UP NEWLY INSTALLED LIGHTS ON THE EXTENSION AND CHECK OPERATION.
 - d. REMOVE DISPLACED THRESHOLD, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY LIGHTING.
 - e. RE-OPEN RUNWAY 18/36.



DECLARED DISTANCES	
ORIGINAL RUNWAY 18/36=	4000'
MINUS DISPLACED THRESHOLD=	-641'
NET TEMPORARY RUNWAY 18/36=	3359'
CRITICAL AIRCRAFT = BEECH SUPER KING AIR B200	

NOTE:
 1.) SIGN COST INCIDENTAL TO CONTRACT
 2.) BACKGROUND - ORANGE
 LETTERS - BLACK



CONSTRUCTION CRITICAL POINT
 (END OF EXISTING RUNWAY)
 LAT. N 41°25'11.79490"
 LONG. W 88°25'06.79528"
 ELEV. = 569.68

CONSTRUCTION CRITICAL POINT
 (LOCATION OF DISPLACED THRESHOLD)
 LAT. N 41°25'18.176448"
 LONG. W 88°25'06.949992"
 ELEV. = 569.77

NOTE:

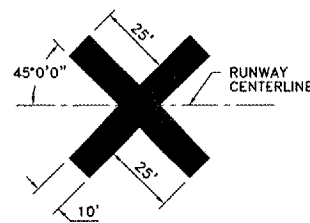
- 1.) CLOSED RUNWAY MARKERS SHALL BE YELLOW.
- 2.) MARKERS SHALL BE DOUBLE LAYERED PAINTED SNOW FENCE, COLORED PLASTIC, PAINTED PLYWOOD OR OTHER MATERIAL APPROVED BY THE ENGINEER.
- 3.) CONTRACTOR SHALL MAINTAIN MARKERS AS DIRECTED BY THE ENGINEER.
- 4.) MARKERS SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AND AS DIRECTED BY THE ENGINEER.
- 5.) COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS AND BARRICADES SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.

GENERAL NOTES AND SCOPE OF WORK

- 1.) SCOPE OF WORK: THIS PROJECT CONSISTS OF CONSTRUCTION OF A 1000' EXTENSION TO THE EXISTING RUNWAY 18/36 AND PARALLEL TAXIWAY INCLUDING ALL NECESSARY EARTHWORK, GRADING, LIGHTING, AND STRIPING.
- 2.) THE MAXIMUM ANTICIPATED CONSTRUCTION EQUIPMENT HEIGHT IS 30'-0".
- 3.) THE CONTRACTOR SHALL USE THE DESIGNATED ACCESS ROAD AS SHOWN ON THIS SHEET. THE CONTRACTOR SHALL MAINTAIN THE PROPOSED ACCESS ROAD THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT, ANY AREAS DAMAGED OUTSIDE THE AREAS SHOWN FOR CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. RESTORATION OF THE ACCESS ROAD WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 4.) THE CONTRACTOR SHALL INVESTIGATE EXISTING DRAINAGE PIPES AND FIELD TILES TO DETERMINE THEIR EXTENT. ALL FIELD TILES AND DRAIN PIPES SHALL BE EXTENDED, REROUTED, OR MAINTAINED TO PROVIDE CONTINUOUS UNOBSTRUCTED DRAINAGE.
- 5.) PUMPING GROUND WATER AND/OR STORM WATER FROM THE WORK AREA IS CONSIDERED INCIDENTAL TO THE PROJECT.
- 6.) THE CONTRACTOR MAY BE REQUIRED TO OVEREXCAVATE THE BORROW AREA TO OBTAIN ENOUGH BORROW FOR THE PROJECT AND BACKFILL WITH EXCESS TOPSOIL TO THE LINES AND GRADES SHOWN.

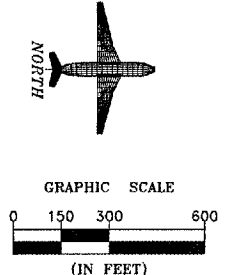
SAFETY PLAN NOTES

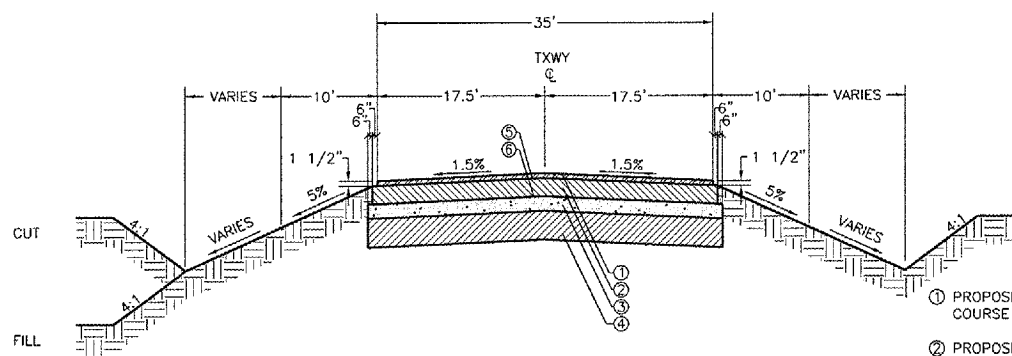
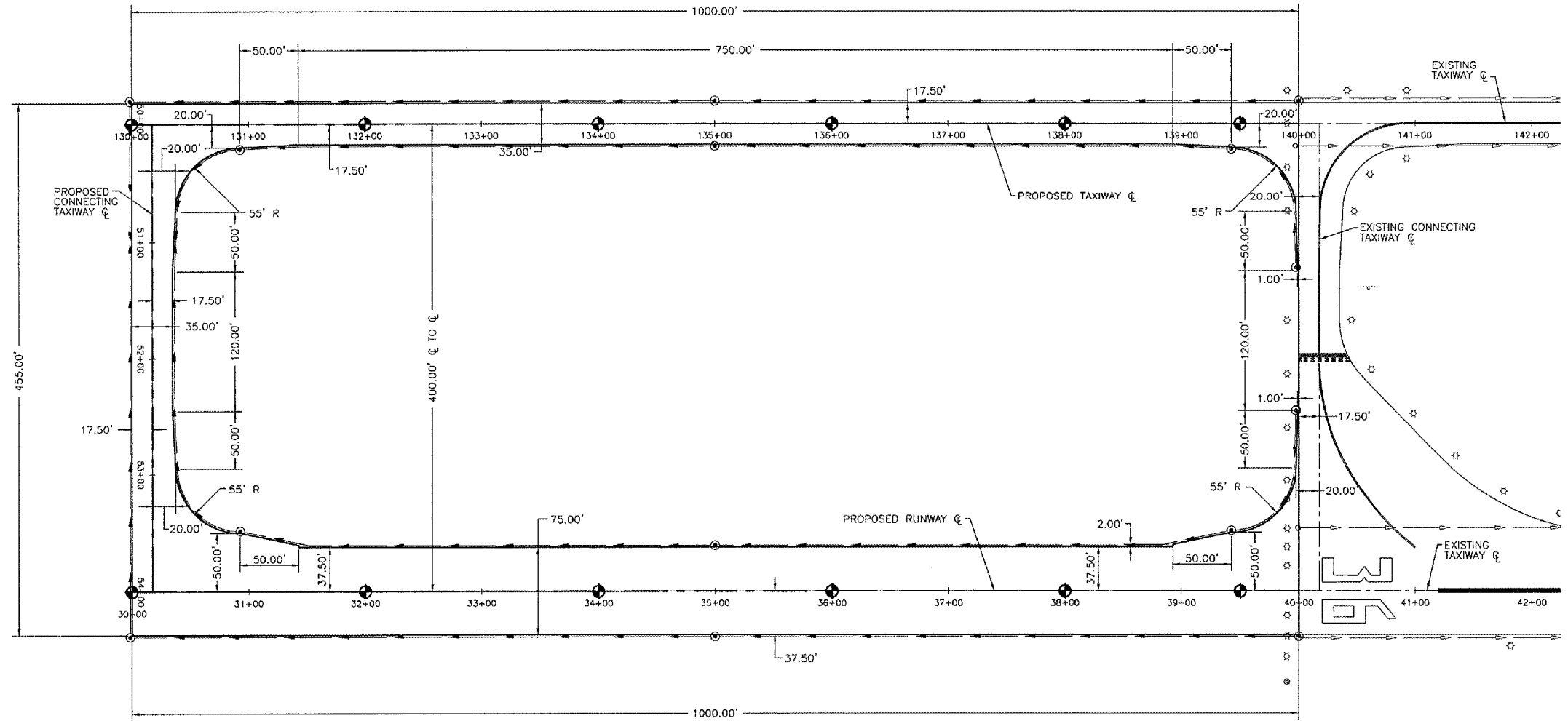
- 1.) THE SEQUENCE OF CONSTRUCTION SHOWN ON THIS SHEET IS INTENDED TO ALLOW ORDERLY AND SAFE CONSTRUCTION, AND TO AVOID LENGTHY RUNWAY CLOSINGS.
- 2.) BARRICADES SHALL BE PLACED AND MAINTAINED AS SHOWN HEREIN, AS INDICATED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.
- 3.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CLOSED RUNWAY MARKERS AS SHOWN ON THIS SHEET AND AS DIRECTED BY THE AIRPORT MANAGER AND THE ENGINEER. MARKERS SHALL BE PLACED AND REMOVED WHEN SO DIRECTED BY THE OWNER THROUGH THE ENGINEER. THE OWNER SHALL BE RESPONSIBLE FOR NOTIFYING THE FLIGHT SERVICE STATION REGARDING RUNWAY CLOSURE AND/ OR DISPLACED THRESHOLD.
- 4.) ALL BARRICADES, MARKINGS, LATHE, FLAGGING, AND TRAFFIC CONTROL ITEMS ARE INCIDENTAL TO THE CONTRACT.
- 5.) ALL IDOT TYPE III BARRICADES SHALL HAVE FOUR STANDARD SIZE SAND BAGS PER LEG.



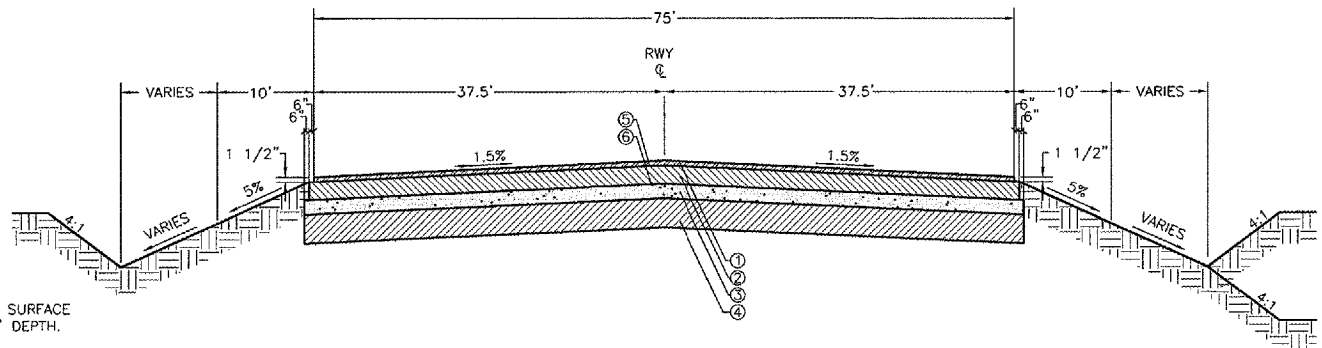
TEMPORARY CLOSED RUNWAY MARKER DETAIL
 NOT TO SCALE

POINT OF CONTACT
 AIRPORT MANAGER: JEFF VOGEN
 MORRIS MUNICIPAL AIRPORT
 9980 N. RTE 47
 MORRIS, IL 60450
 (815) 942-1600



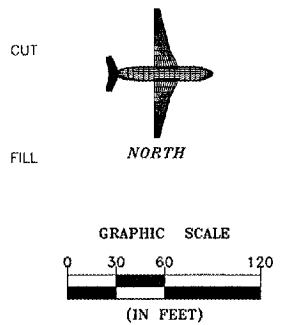


**TYPICAL CROSS SECTION
NEW TAXIWAY**
NOT TO SCALE



**TYPICAL CROSS SECTION
NEW RUNWAY**
NOT TO SCALE

- ① PROPOSED BITUMINOUS SURFACE COURSE (401), 1 1/2" DEPTH.
- ② PROPOSED BITUMINOUS BASE COURSE (201), 8" DEPTH.
- ③ PROPOSED AGGREGATE BASE COURSE (209), 6" DEPTH.
- ④ PROPOSED 12" HORIZON "B"
- ⑤ PROPOSED BITUMINOUS TACK COAT (603) 0.10 GAL. PER SQ. YD.
- ⑥ PROPOSED BITUMINOUS PRIME COAT (602) 0.35 GAL. PER SQ. YD.



DRAWN BY: JMT	CAD/DWG: DIMLAY	REVISIONS	
CHECKED BY: KWH	DATE: 5/06	DATE	BY

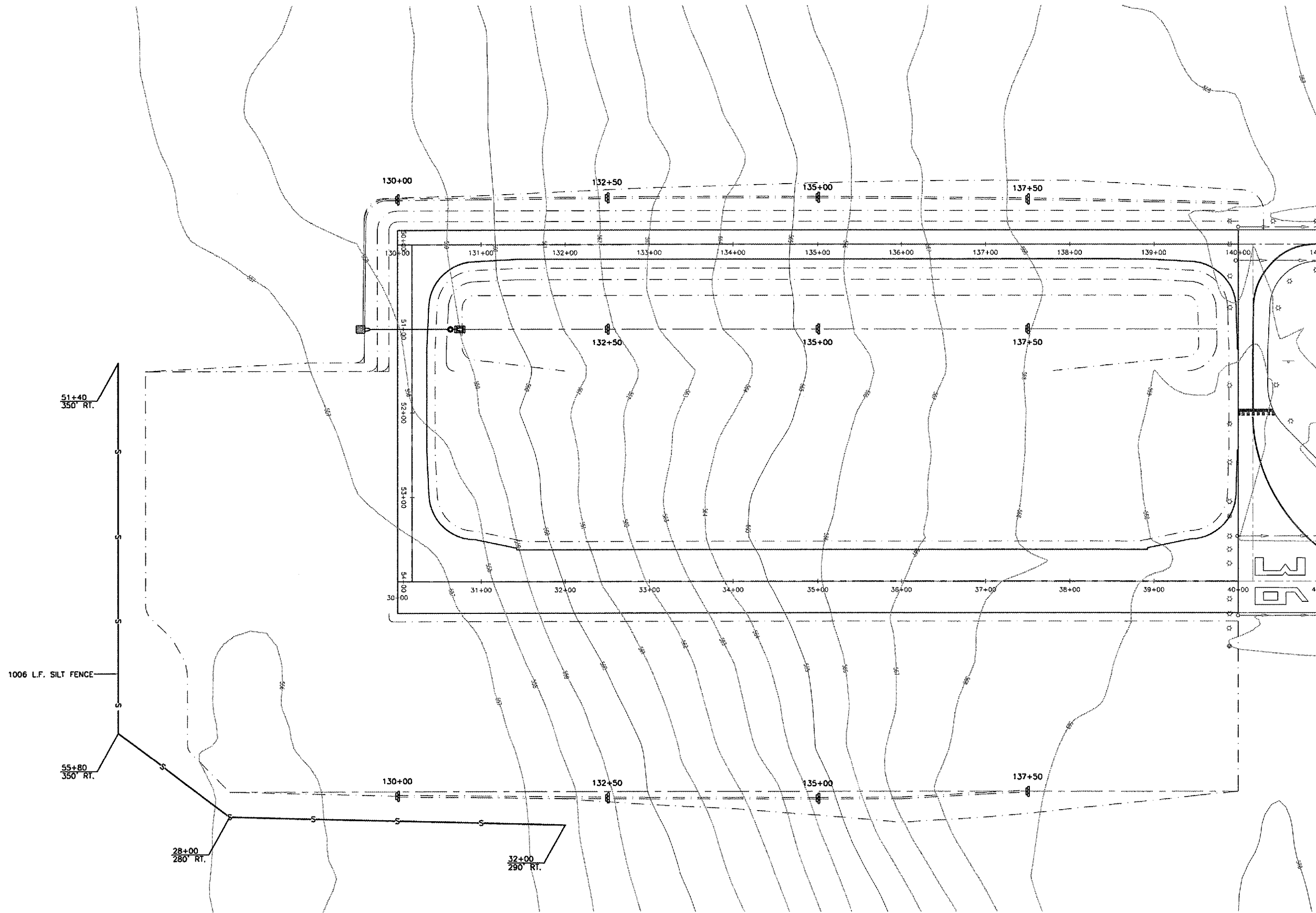
CHAMLIN & ASSOCIATES

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ILLINOIS

MORRIS MUNICIPAL AIRPORT
MORRIS, ILLINOIS

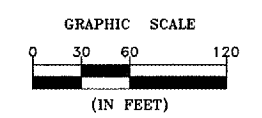
DIMENSIONAL LAYOUT PLAN

SCALE: AS NOTED	SHEET 3
FILE NO.: 1002.58Y-1	OF 21



LEGEND

- SILT FENCE
- DITCH CHECK (BALES)
- INLET PROTECTION (BALES)



DRAWN BY: JMT	CAD/DWG: EROSION	REVISIONS	
CHECKED BY: KWH	DATE: 5/06	DATE	BY

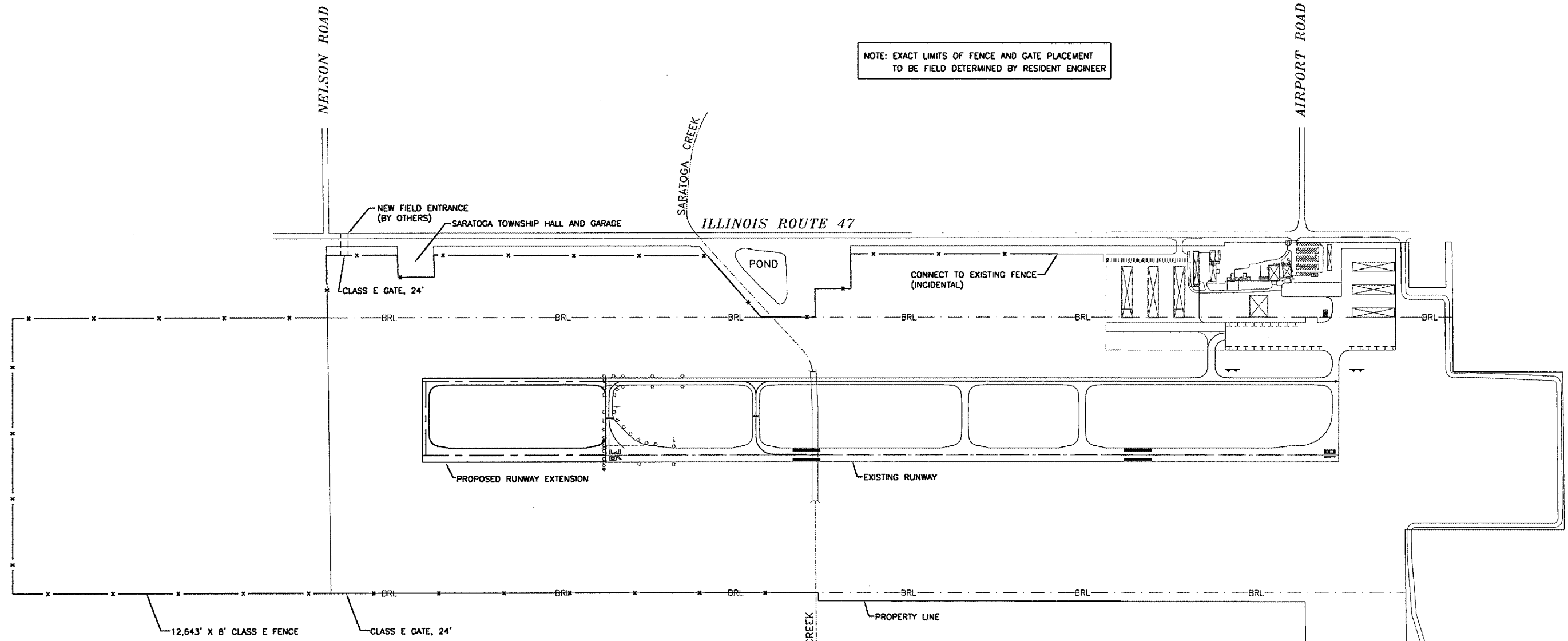
CHAMLIN
ASSOCIATES

PERU MORRIS
ILLINOIS

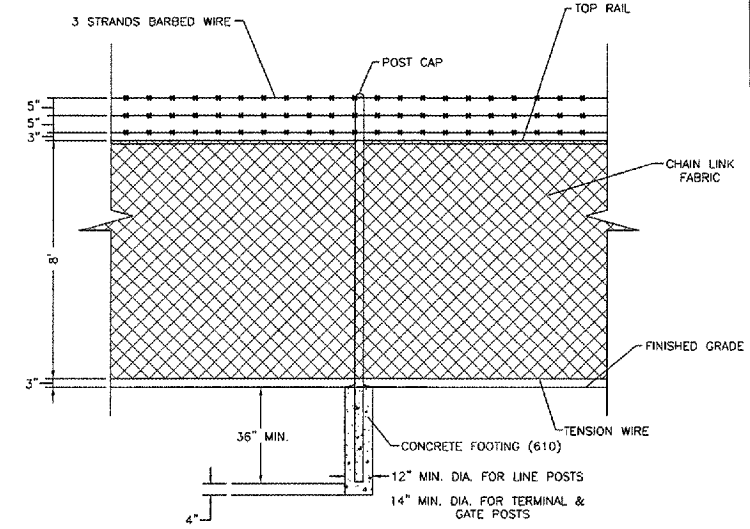
MORRIS MUNICIPAL AIRPORT
MORRIS, ILLINOIS

EROSION CONTROL PLAN

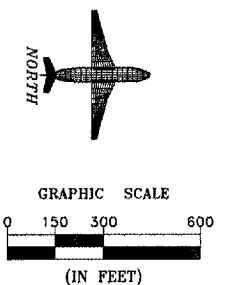
SCALE: AS NOTED	SHEET 4
FILE NO.: 1002.58Y-1	OF 21



NOTE: EXACT LIMITS OF FENCE AND GATE PLACEMENT TO BE FIELD DETERMINED BY RESIDENT ENGINEER



CLASS E FENCE 8'
N.T.S.



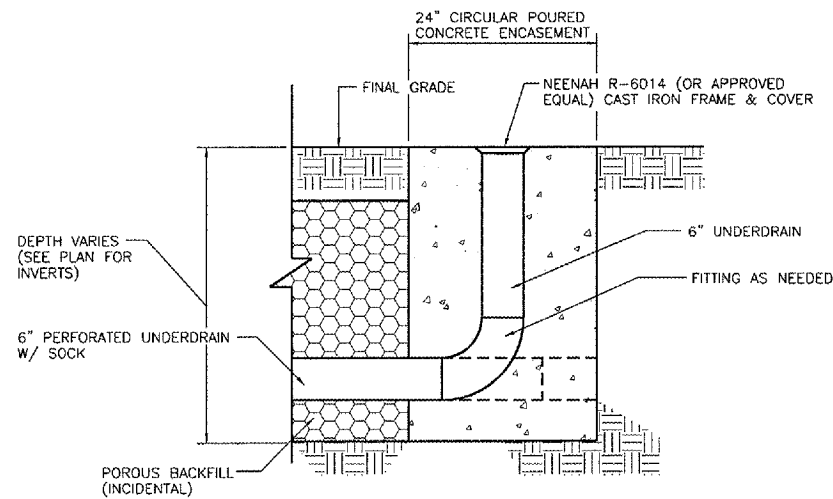
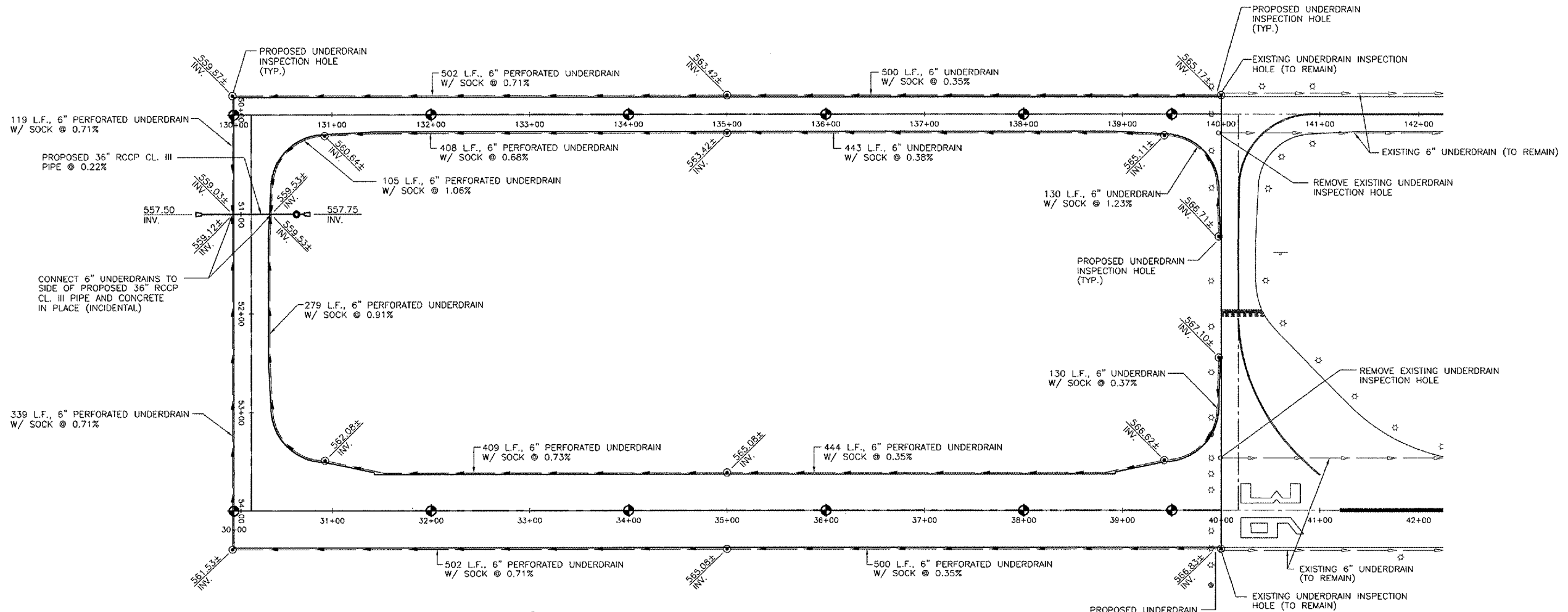
DRAWN BY: JMT	CAD/DWG: FENCE XREF/DWG:	REVISIONS	
		DATE	BY
CHECKED BY: KWH	DATE: 5/06		

CHAMLIN & ASSOCIATES
PERU MORRIS
ILLINOIS

MORRIS MUNICIPAL AIRPORT
MORRIS, ILLINOIS

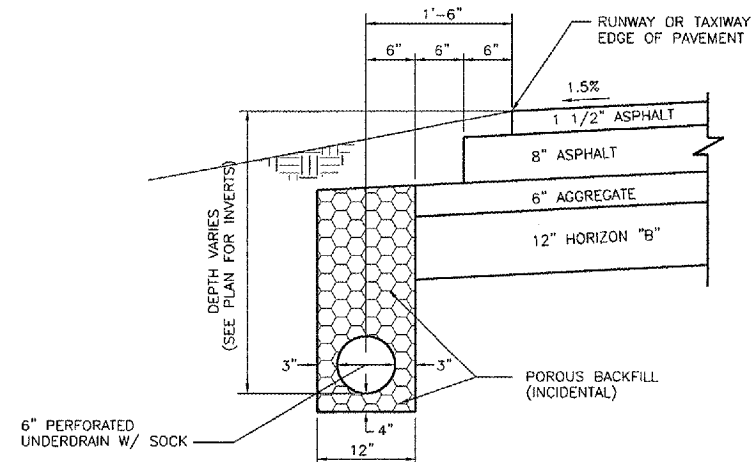
FENCING PLAN

SCALE: AS NOTED	SHEET 5
FILE NO.: 1002.58Y-1	OF 21



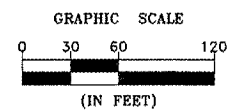
UNDERDRAIN INSPECTION HOLE DETAIL

N.T.S.



UNDERDRAIN DETAIL

N.T.S.



DRAWN BY: JMT	CAD/DWG: UNDERDRAIN	REVISIONS	
CHECKED BY: KWH	DATE: 5/06	DATE	BY

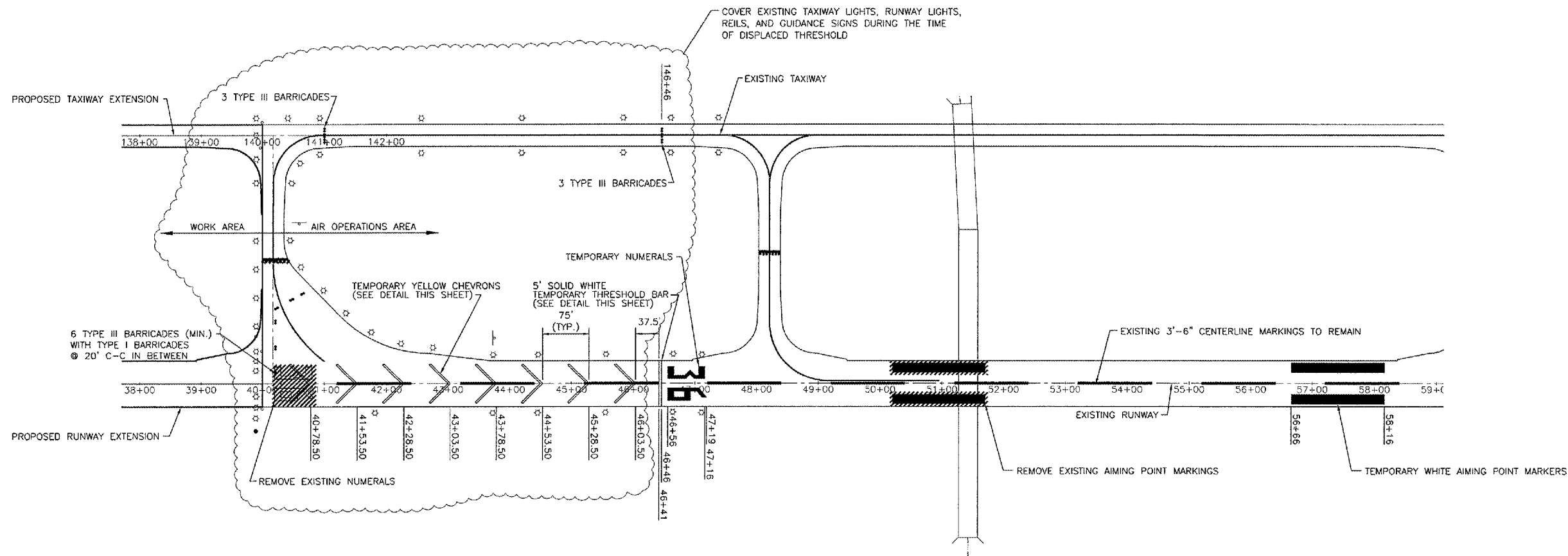


PERU MORRIS
ILLINOIS

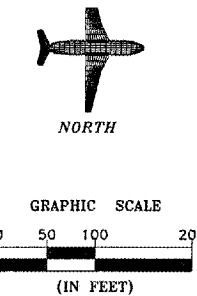
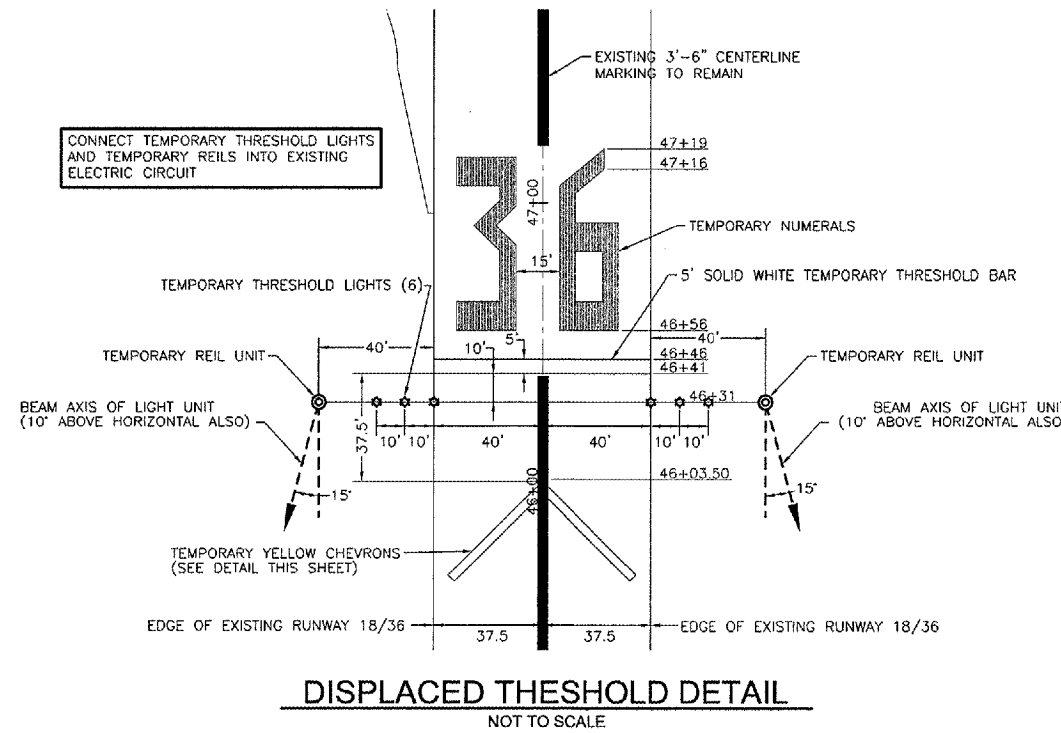
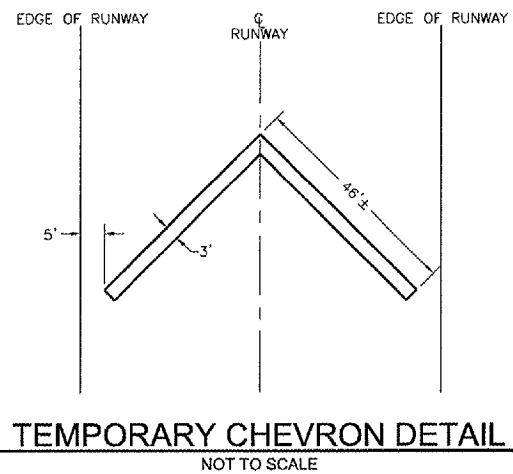
MORRIS MUNICIPAL AIRPORT
MORRIS, ILLINOIS

UNDERDRAIN PLAN

SCALE: AS NOTED	SHEET 6
FILE NO.: 1002.58Y-1	OF 21



DECLARED DISTANCES	
ORIGINAL RUNWAY 18/36=	4000'
MINUS DISPLACED THRESHOLD=	-641'
NET TEMPORARY RUNWAY 18/36=	3359'



DRAWN BY: JMT	CAD/DWG: TEMP	REVISIONS	
CHECKED BY: KWH	DATE: 5/06	DATE	BY

CHAMLIN ASSOCIATES

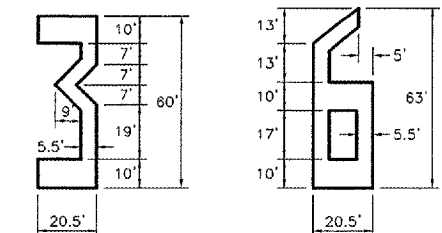
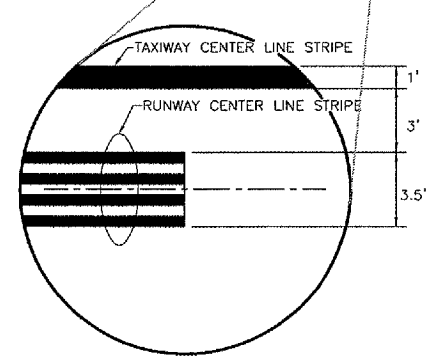
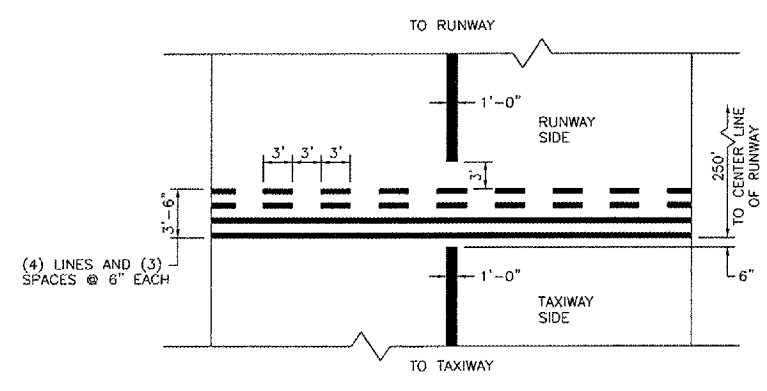
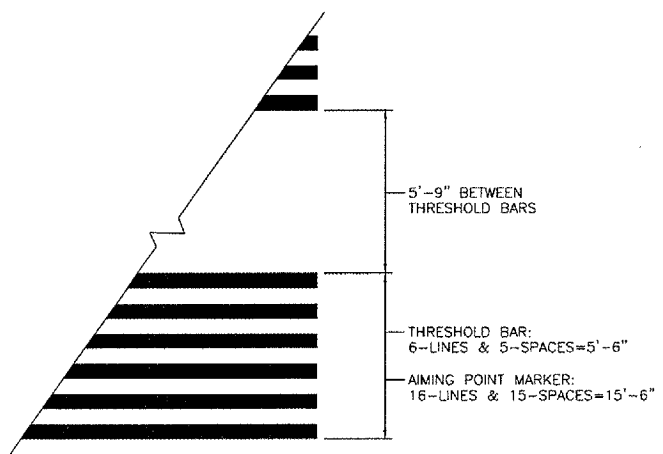
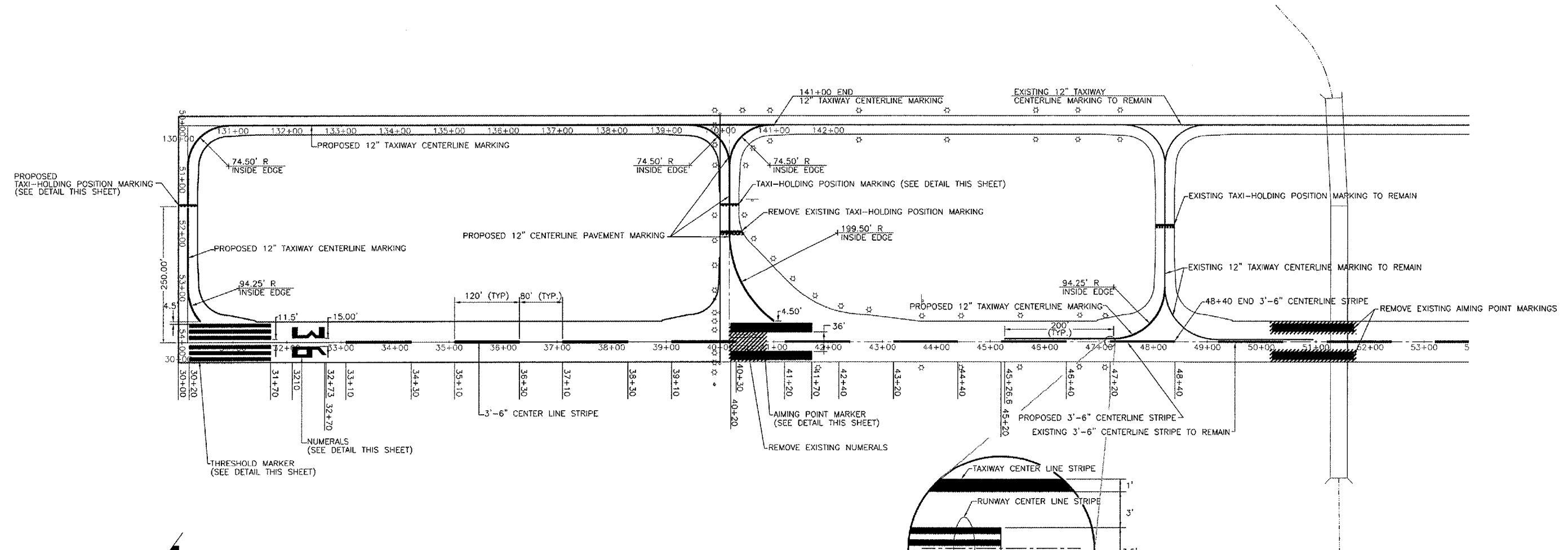
PERU MORRIS ILLINOIS

MORRIS MUNICIPAL AIRPORT
MORRIS, ILLINOIS

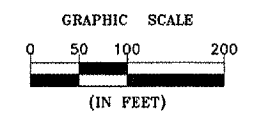
TEMPORARY PAVEMENT MARKING PLAN AND
DISPLACED THRESHOLD PLAN AND DETAILS

SCALE: AS NOTED	SHEET 7
FILE NO.: 1002.58Y-1	OF 21

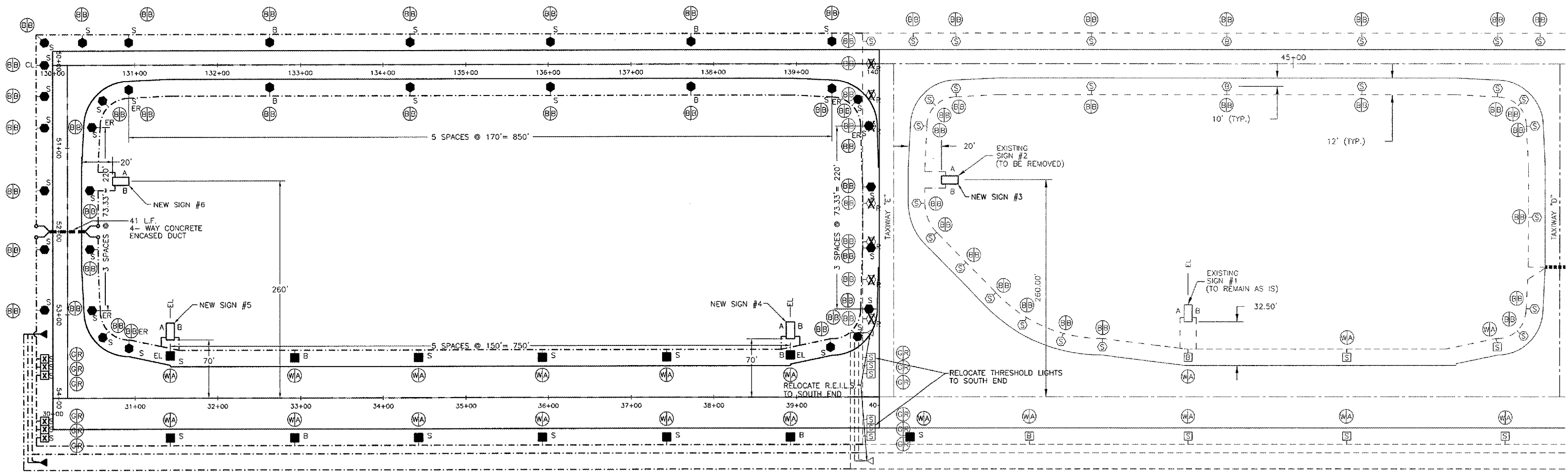
PAVEMENT MARKING TABLE (PER APPLICATION)			
ITEM NO. - DESCRIPTION	WHITE	YELLOW	TOTAL
AR 620520 - PAVEMENT MARKING - WATERBORNE	8466 S.F.	2391 S.F.	10,857 S.F.



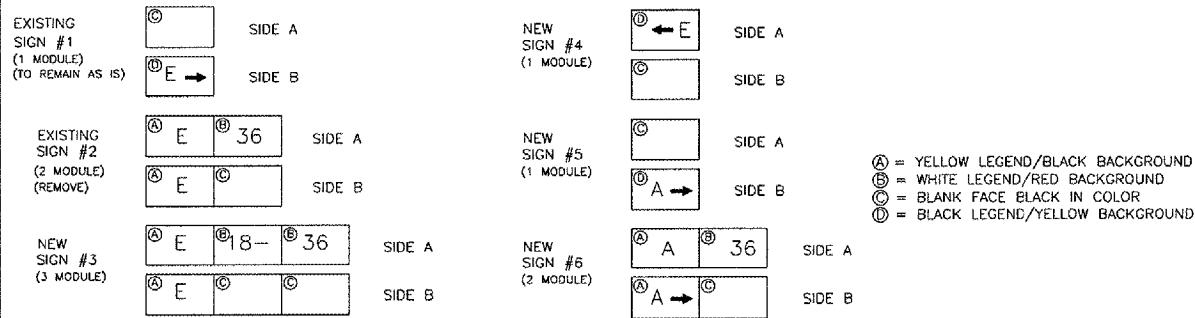
- NOTES:**
- 1.) ALL RUNWAY MARKING WHITE
 - 2.) ALL TAXIWAY MARKING - AVIATION YELLOW
 - 3.) THRESHOLD MARKERS, AIMING POINT MARKERS, RUNWAY CENTER LINES AND NUMERALS TO BE STRIATED.



NOTE:
ALL NUMERALS ARE STRIATED (WHITE)



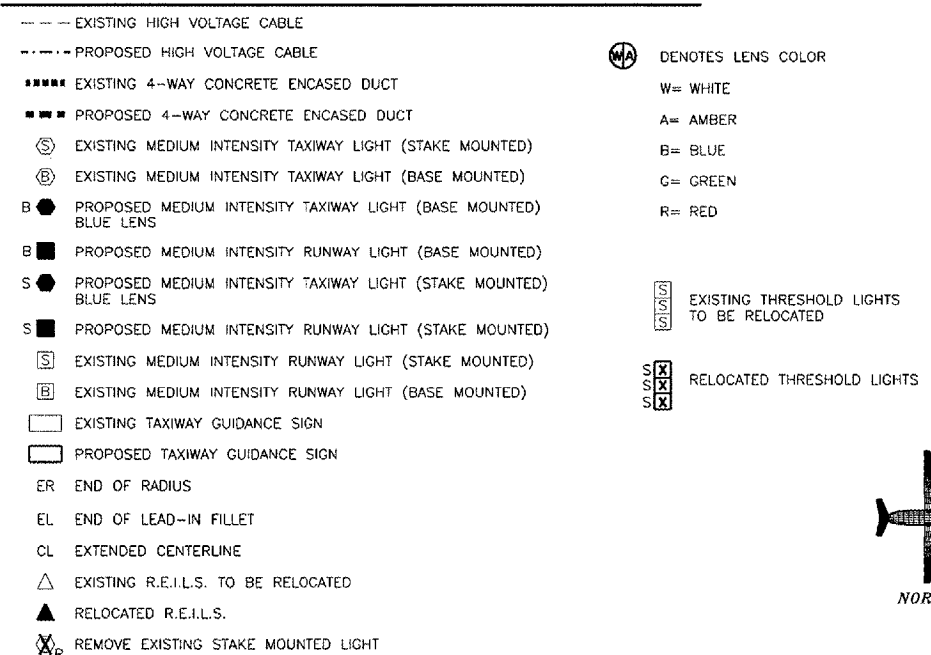
LEGEND PANELS FOR TAXIWAY GUIDANCE/RUNWAY EXIT SIGNS



GENERAL NOTES:

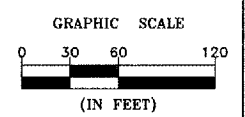
- BREAKING GROOVE OR BREAKABLE COUPLINGS SHALL NOT EXCEED 1-1/2" ABOVE GROUND LINE OR BASE COVER.
- COPPER CLAD GR. RODS 5/8" DIA. X 8'-0" LG. SHALL BE DRIVEN 1'-0" BELOW FINISHED GRADE & COUNTERPOISE CABLE SECURELY ATTACHED TO SAME. GROUND RODS SHALL BE SPACED MAX. OF 1000' APART AND LOCATED NEAR FIXTURE.
- ALL PROPOSED LIGHTS WILL BE PLACED 10' FROM THE EDGE OF FULL STRENGTH PAVEMENT UNLESS SHOWN OTHERWISE.
- ALL PROPOSED MEDIUM INTENSITY LIGHTING CABLE WILL BE LOCATED 12' FROM THE EDGE OF FULL STRENGTH PAVEMENT UNLESS SHOWN OTHERWISE, AND PLACED 18" BELOW FINISHED GRADE.
- THE PROPOSED LIGHTING CABLE SHALL BE 1/C #8 5 KV UNDERGROUND CABLE IN UNIT DUCT AND SHALL BE PLOWED AND/OR TRENCHED IN PLACE.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.
- THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE PLUS OR MINUS ONE (1) INCH. IN CASE OF STAKE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE STAKE AND THE TOP OF THE LENS. IN CASE OF BASE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE BASE FLANGE AND THE TOP OF THE LENS, THUS INCLUDING THE BASE COVER, THE FRANGIBLE COUPLING, THE STEM, THE LAMP HOUSING AND THE LENS.
- THE TOLERANCE FOR THE LATERAL SPACING OF TAXIWAY EDGE LIGHTS (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) SHALL BE ± ONE (1) INCH. THIS ALSO APPLIES AT INTERSECTIONS.
- THERE SHALL BE NO SPLICES BETWEEN THE ISOLATION TRANSFORMERS. L-823 CONNECTORS ARE ALLOWED AT TRANSFORMER CONNECTIONS ONLY, UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM (INCLUDING FAA APPROVED EQUIPMENT) ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NON-COMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED BY HIM AT NO ADDITIONAL COST TO THE AIRPORT SPONSOR WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER (DIFFERENT MODEL OR DIFFERENT MANUFACTURER) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.
- RELOCATE EXISTING TAXIWAY LIGHTS AS SHOWN. PROVIDE NEW STAKE AT RELOCATED STAKE-MOUNTED LIGHTS. REUSE EXISTING LENSES.
- ALL EQUIPMENT SHALL BE GROUNDED TO EXISTING COUNTERPOISE LOOP.

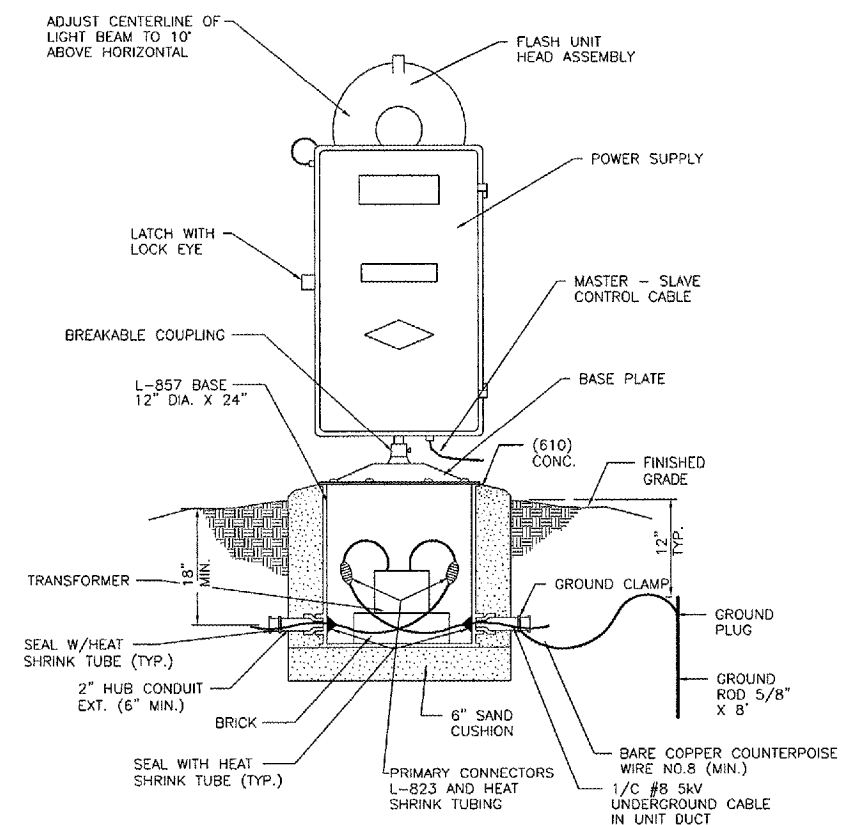
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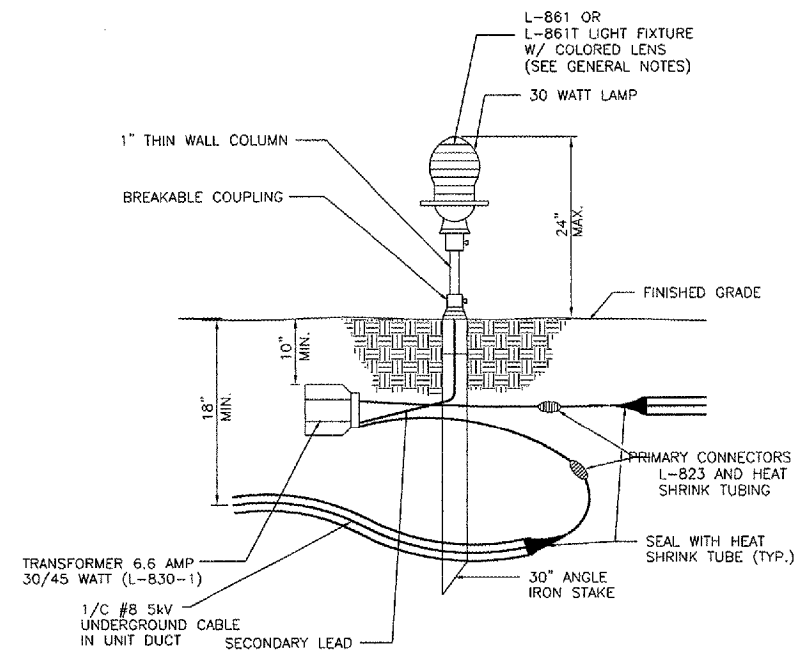
ELECTRICAL NOTES

- UNLESS OTHERWISE NOTED, ALL UNDERGROUND FIELD POWER MULTIPLE AND SERIES CIRCUIT CONDUCTORS, WHETHER DIRECT BURIED OR IN DUCT/CONDUIT, SHALL BE FAA APPROVED L-824 TYPE. INSULATION VOLTAGE AND SIZE SHALL BE AS SPECIFIED.
- THE JOINTS OF THE L-823 CONNECTORS SHALL BE ENCLOSED BY A HEAT SHRINKABLE TUBING WITH CONTINUOUS INTERNAL ADHESIVE.
- L-823 TYPE II, TWO-CONDUCTOR SECONDARY CONNECTORS SHALL BE CLASS "A" (FACTORY MOLDED).
- THERE SHALL BE NO SPLICES IN THE SECONDARY CABLE(S) WITHIN THE STEMS OF A RUNWAY/TAXIWAY EDGE/THRESHOLD LIGHTING FIXTURES AND THE WIREWAY LEADING TO TAXIWAY SIGNS.
- DIRECT BURIED ISOLATION TRANSFORMERS SHALL BE BURIED AT A DEPTH OF 10 INCHES ON A LINE CROSSING THE LIGHT AND PERPENDICULAR TO THE RUNWAY/TAXIWAY CENTERLINE AT A LOCATION 12 INCHES FROM THE LIGHT OPPOSITE FROM THE RUNWAY/TAXIWAY EDGE.
- A SLACK OF 3 FEET, MINIMUM, SHALL BE PROVIDED IN THE PRIMARY CABLE AT EACH TRANSFORMER/CONNECTOR TERMINATION. AT THE STAKE-MOUNTED LIGHTS, THE SLACK SHALL BE LOOSELY COILED IMMEDIATELY BELOW THE ISOLATION TRANSFORMERS.
- L-867 BASES SHALL BE SIZE B, 24" DEEP, CLASS I, UNLESS OTHERWISE NOTED.
- BASE MOUNTED BREAKABLE COUPLINGS SHALL NOT HAVE WEEP HOLES TO THE OUTSIDE. PLUGGED HOLES SHALL NOT BE ACCEPTABLE. COUPLINGS SHALL HAVE A 1/4" DIAMETER, MINIMUM, OPENING FOR DRAINAGE FROM THE SPACE AROUND THE SECONDARY CONNECTOR INTO THE L-867 BASE.
- THE ELEVATION OF THE BREAKABLE COUPLING GROOVE SHALL NOT EXCEED 1-1/2" ABOVE THE EDGE OF THE COVER IN CASE OF BASE MOUNTED COUPLINGS, OR THE TOP OF THE STAKE IN CASE OF STAKE MOUNTED COUPLINGS.
- TOP OF THE STAKES SUPPORTING LIGHT FIXTURES SHALL BE FLUSH WITH THE SURROUNDING GRADE.
- PLASTIC LIGHTING FIXTURE COMPONENTS, SUCH AS LAMP HEADS, STEMS, BREAKABLE COUPLINGS, BASE COVERS, BRACKETS, STAKES, SHALL NOT BE ACCEPTABLE. L-867 PLASTIC TRANSFORMER HOUSINGS ARE ACCEPTABLE. THE METAL THREADED FITTINGS SHALL BE SET IN THE FLANGE DURING CASTING PROCESS. BASE COVER BOLTS SHALL BE FABRICATED FROM 18-8 STAINLESS STEEL.

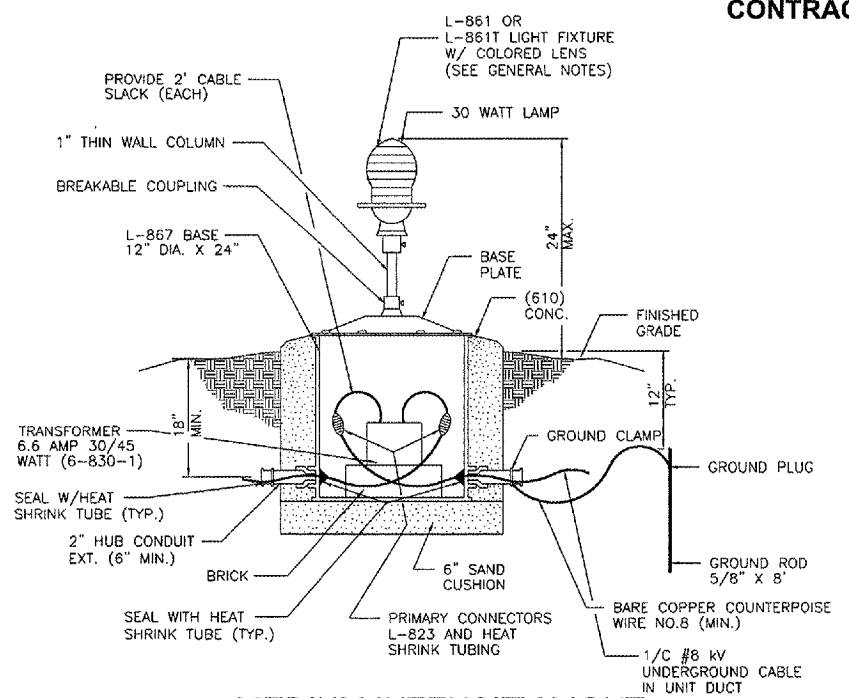




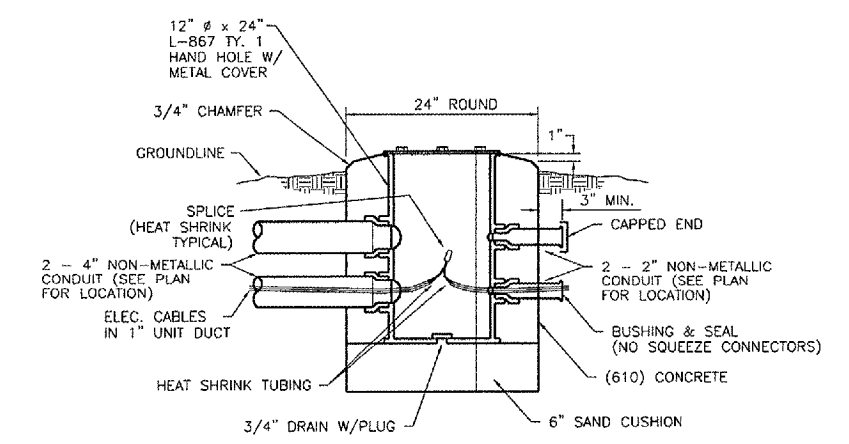
R.E.I.L.S. DETAIL
NOT TO SCALE



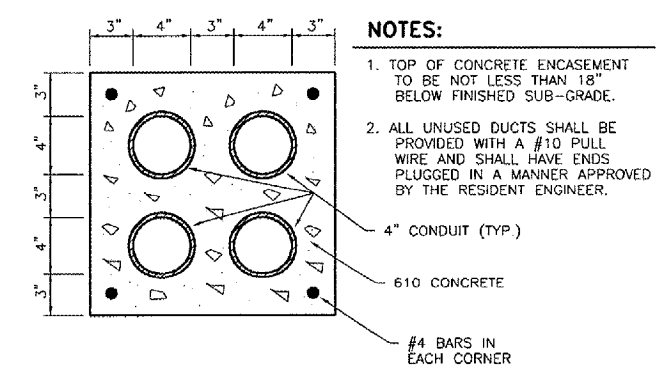
MEDIUM INTENSITY LIGHT STAKE MOUNTED
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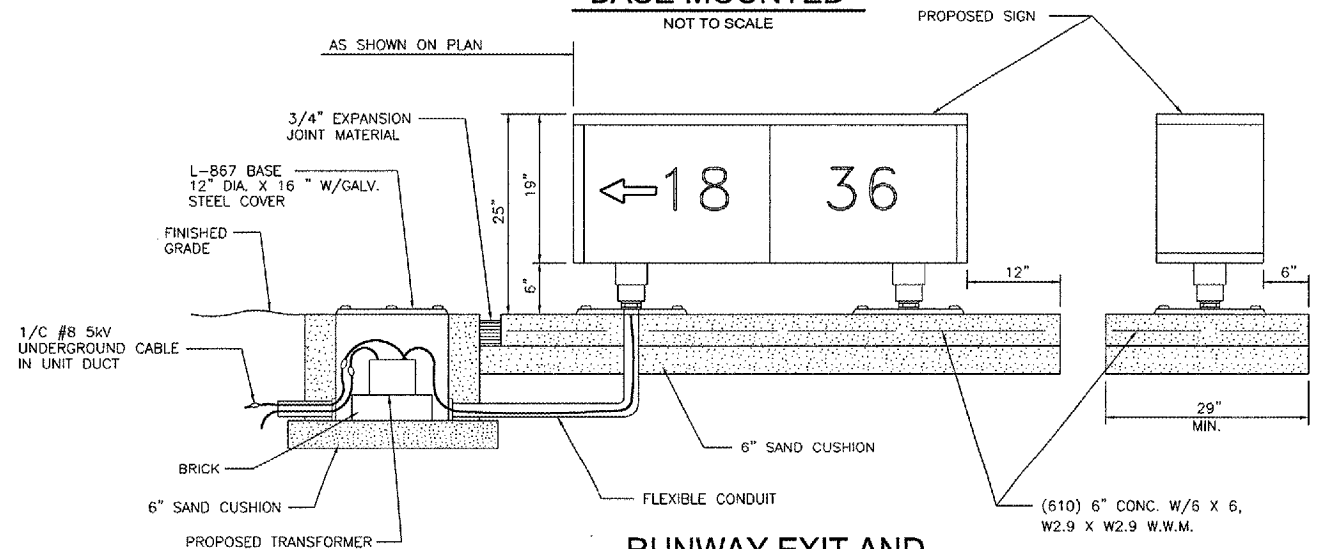
MEDIUM INTENSITY LIGHT BASE MOUNTED
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HAND HOLE DETAIL
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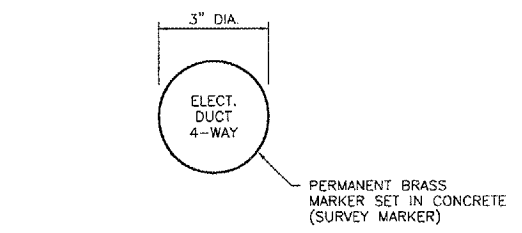
CONCRETE ENCASEMENT
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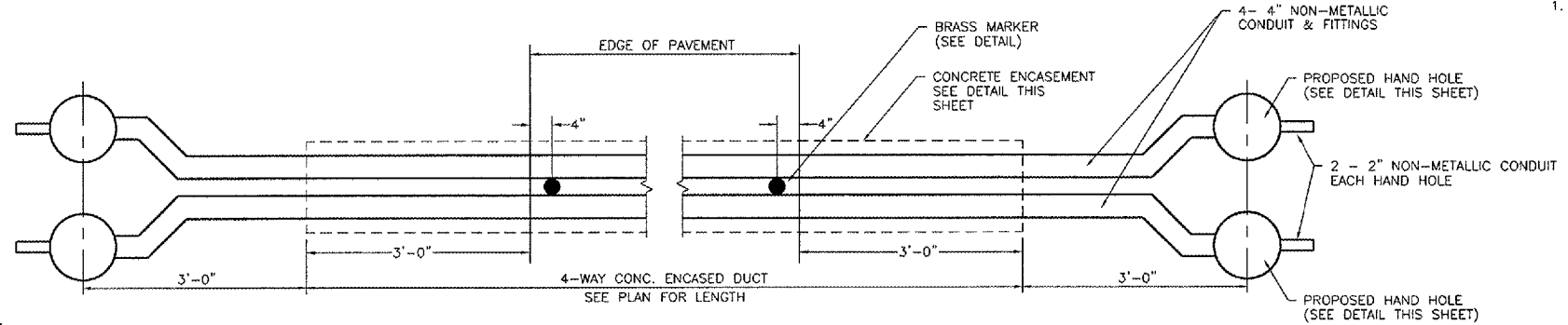
RUNWAY EXIT AND TAXIWAY GUIDANCE SIGN DETAIL
NOT TO SCALE

NOTE: (TAXIWAY GUIDANCE & RUNWAY SIGNS)

1. FOR TAXIWAY GUIDANCE & RUNWAY EXIT SIGN DATA SEE ELECTRICAL LIGHTING PLAN SHEET NO. 9

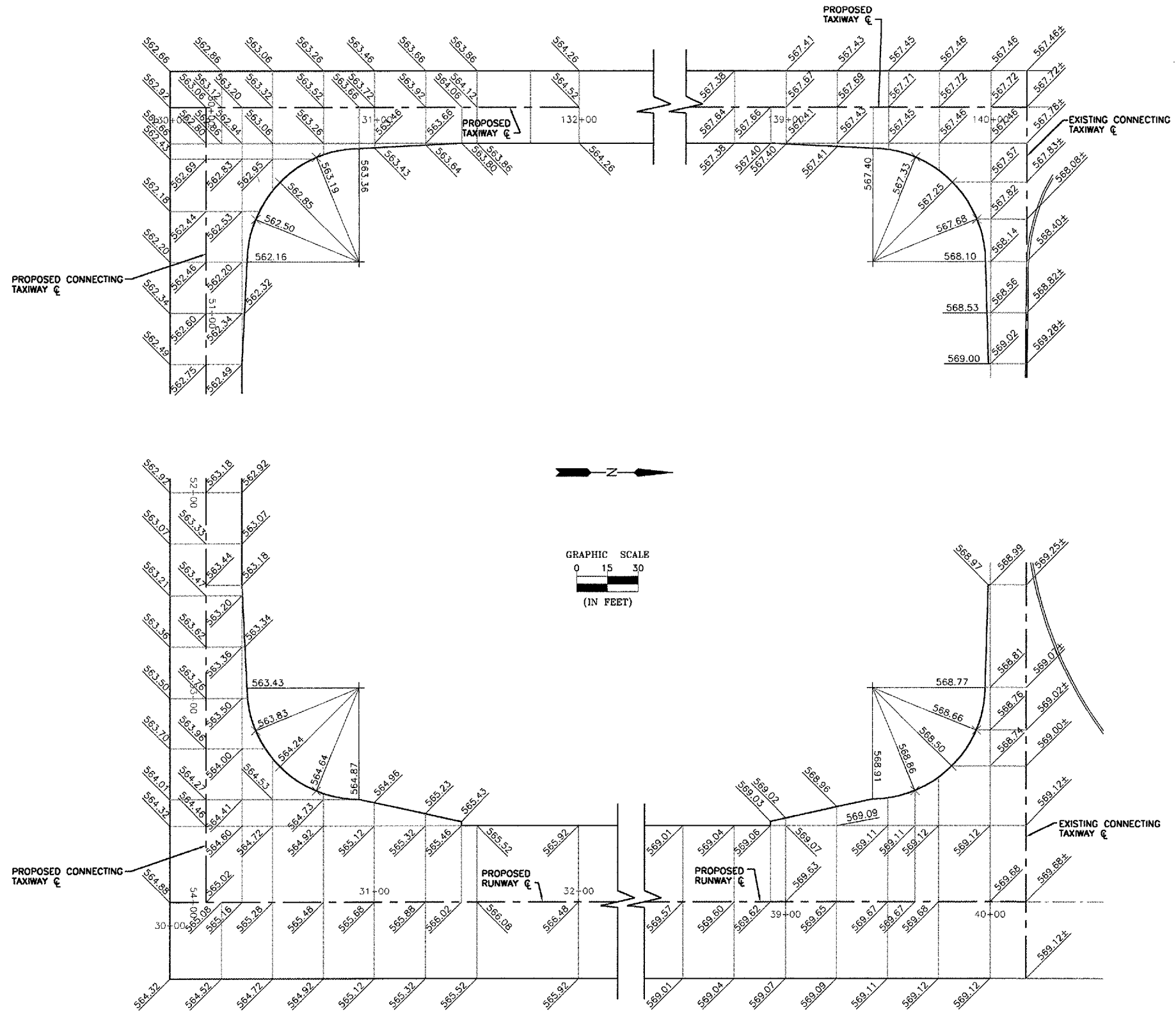


BRASS PAVEMENT MARKER DETAIL
NOT TO SCALE



4-WAY CONCRETE ENCASED DUCT
NOT TO SCALE

- GENERAL NOTES:**
1. BREAKING GROOVE OR BREAKABLE COUPLINGS SHALL NOT EXCEED 1-1/2" ABOVE GROUND LINE OR BASE COVER.
 2. COPPER CLAD GR. RODS 5/8" DIA. X 8'-0" LG. SHALL BE DRIVEN 1'-0" BELOW FINISHED GRADE & COUNTERPOISE CABLE SECURELY ATTACHED TO SAME GROUND RODS SHALL BE SPACED MAX. OF 1000' APART AND LOCATED NEAR FIXTURE.
 3. HIGH AND LOW VOLTAGE CABLE SHALL BE RUN IN SEPARATE UNDERGROUND DUCTS.
 4. WHEN HIGH AND LOW VOLTAGE CABLES ARE IN A HANDHOLE OR MANHOLE PROTECTION SHALL BE MADE AROUND THE HIGH VOLTAGE CABLE. THE METHOD OF PROTECTION SHALL BE BY SPLIT DUCT ANCHOR CLIPPED TO THE WALL.
 5. L-861 SPECIFICATION DENOTES RUNWAY LIGHT FIXTURE. L-861T DENOTES TAXIWAY LIGHT FIXTURE.



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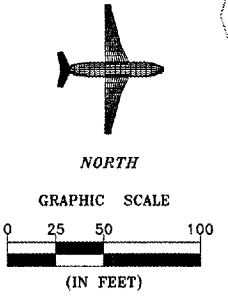
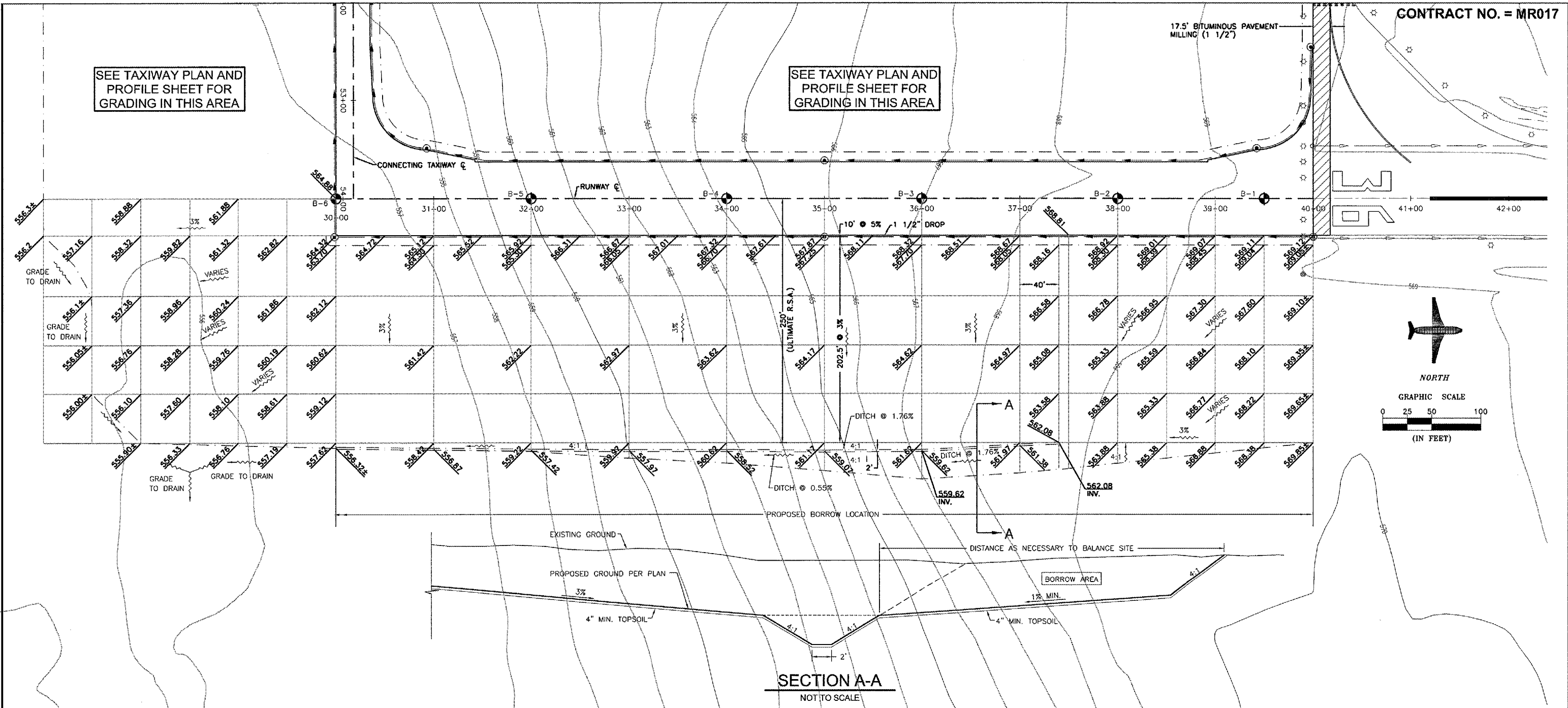
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FILLET AREA ELEVATION DETAILS

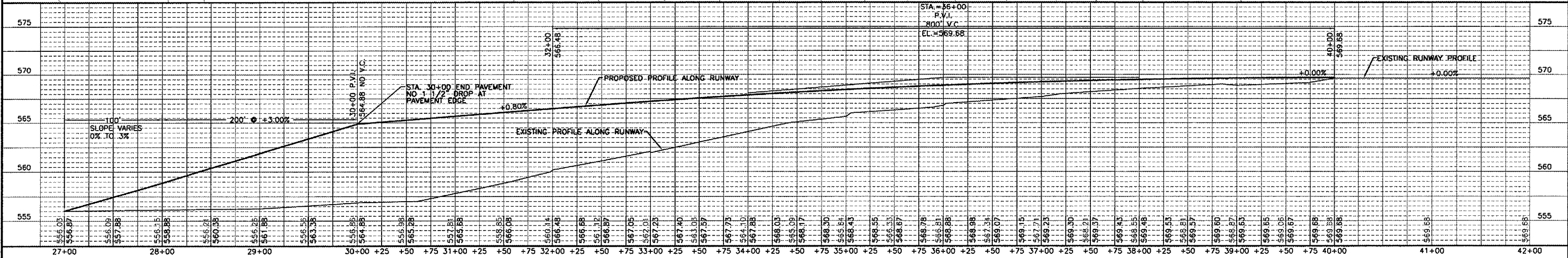
SCALE: AS NOTED	SHEET 11
FILE NO.: 1002.58Y-1	OF 21

SEE TAXIWAY PLAN AND PROFILE SHEET FOR GRADING IN THIS AREA

SEE TAXIWAY PLAN AND PROFILE SHEET FOR GRADING IN THIS AREA



SECTION A-A
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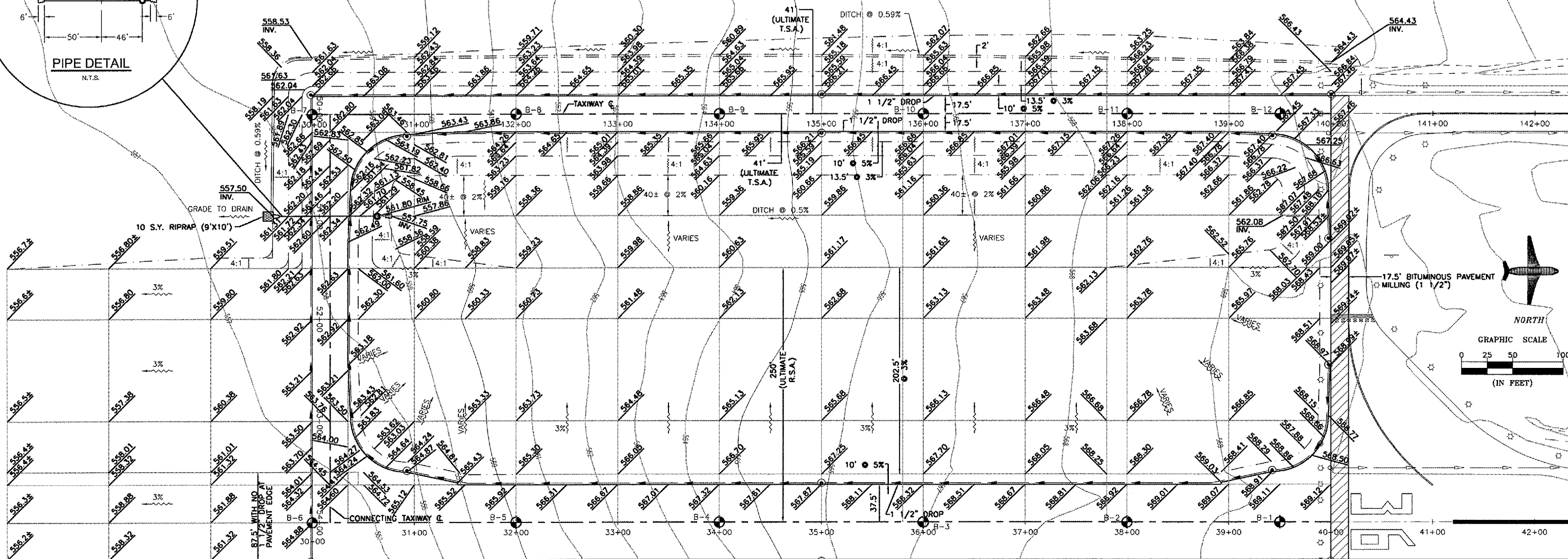
RUNWAY PLAN & PROFILE

SCALE: AS NOTED
 FILE NO.: 1002.58Y-1
 SHEET 12
 OF 21

M.H. T.S. A 5' DIA
W/ FLAT TOP SLAB
NEENAH R4341-A GRATE OR APPROVED EQUAL
RIM EL = 561.80
INV. EL = 557.72
8' x 36" RCP
CLASS III @ 0.22%
21" ORIFICE RESTRICTOR PLATE
(SEE DETAIL)

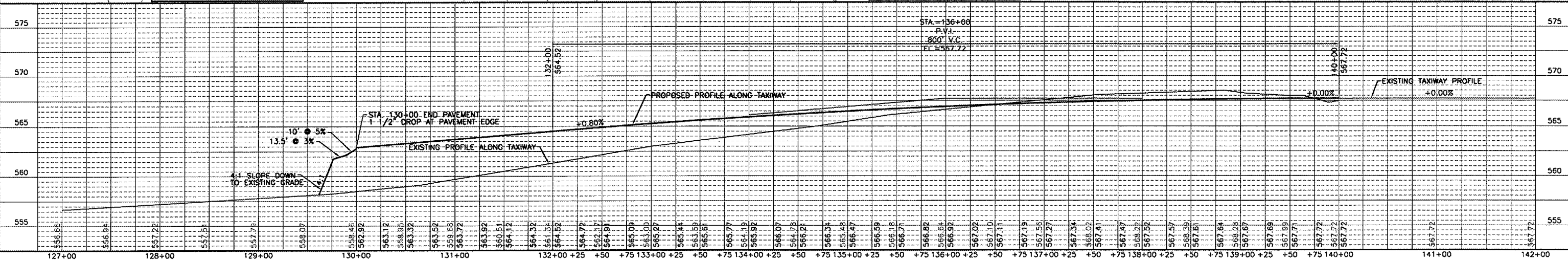
P.R.C.F.E.S. 36"
INV. EL = 557.50
6' 14' 6'
P.R.C.F.E.S. 36"
INV. EL = 557.75

PIPE DETAIL
N.T.S.



SEE RUNWAY PLAN AND
PROFILE SHEET FOR
GRADING IN THIS AREA

SEE RUNWAY PLAN AND
PROFILE SHEET FOR
GRADING IN THIS AREA



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BASE
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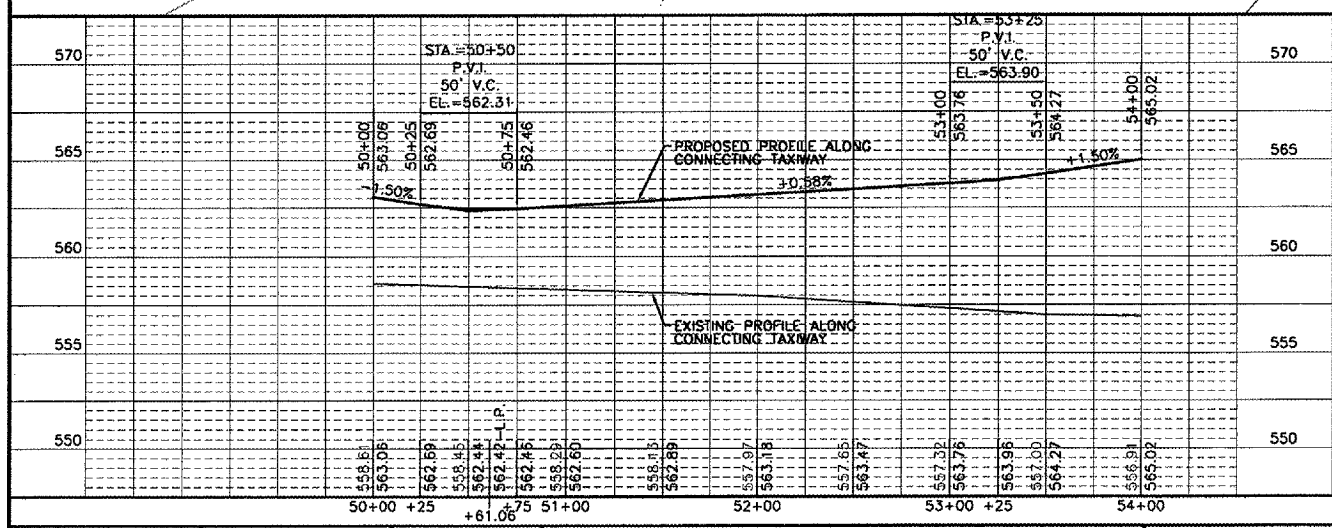
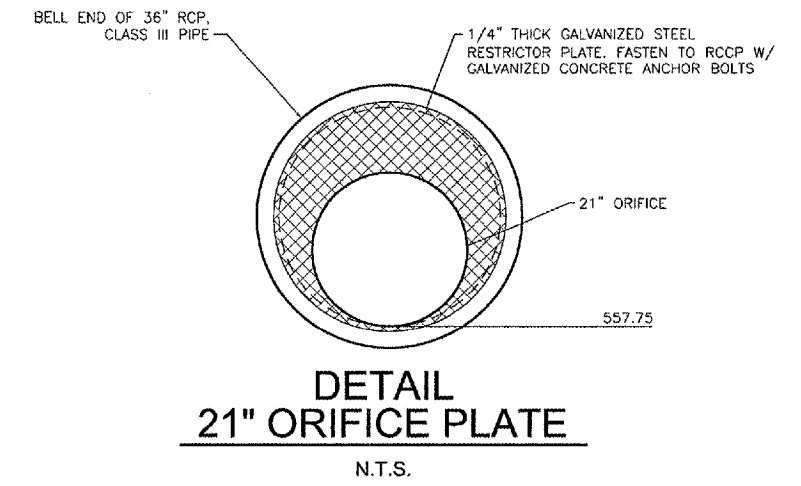
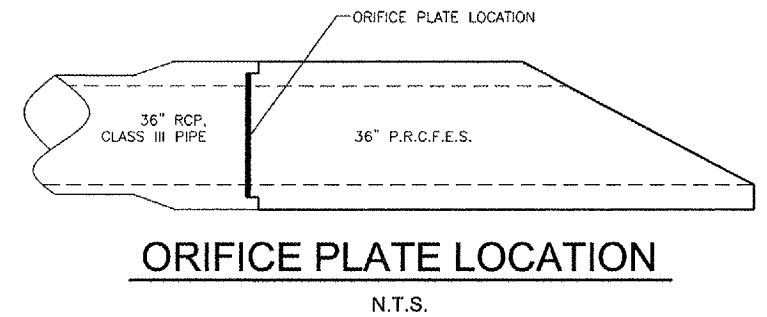
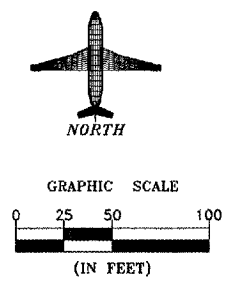
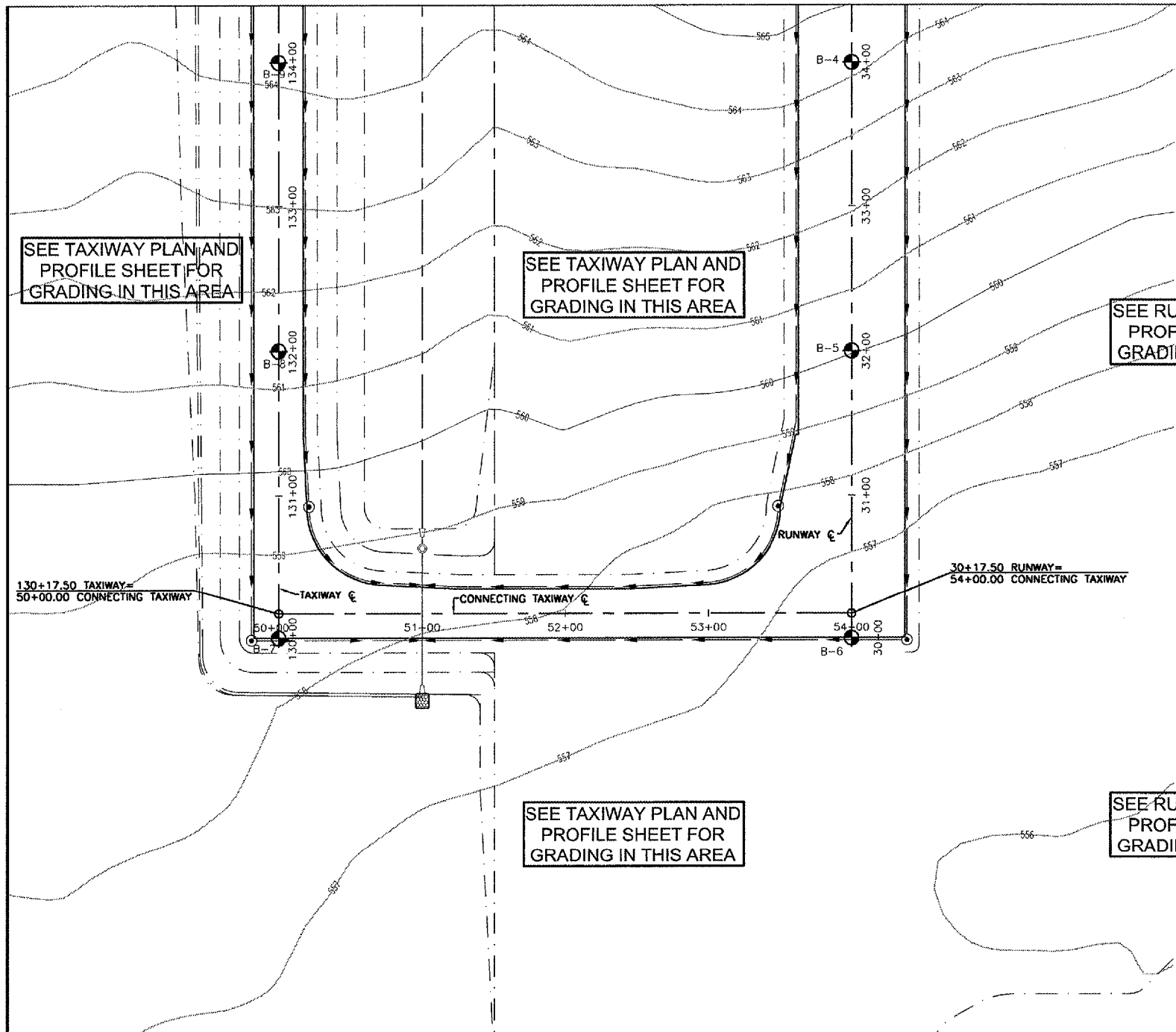


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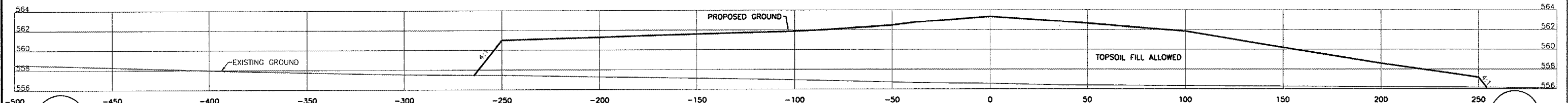
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TAXIWAY PLAN & PROFILE

SCALE: AS NOTED
SHEET 13
FILE NO.: 1002.58Y-1
OF 21

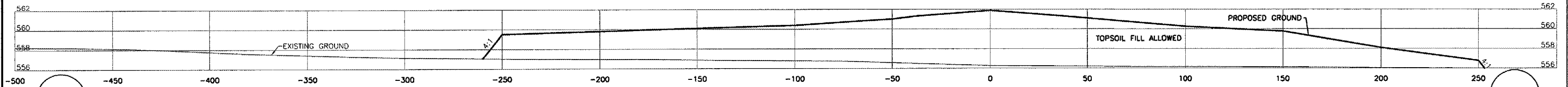


EARTHWORK QUANTITIES											
LOCATION	THEORETICAL		THEORETICAL TOPSOIL SOURCES		TOPSOIL REQUIRED		ADJUSTED EARTH			BORROW EXCAVATION	REMARKS
	CUT	FILL	IN CUT	IN FILL	IN CUT	IN FILL	UNCLASSIFIED EXCAVATION (CUT)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT (FILL)		
	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)	(C.Y.)		
	(A)	(B)	(C)	(D)	(E)	(F)	(A)+(E)	G(0.75)	(B)+(D)	(I) - (H)	
ENTIRE PROJECT	45285	44030	18039	4489	4987	4557	50272	37704	48519	10815	
TOTAL							50272	---	---	10815	
	PAY ITEM									PAY ITEM	



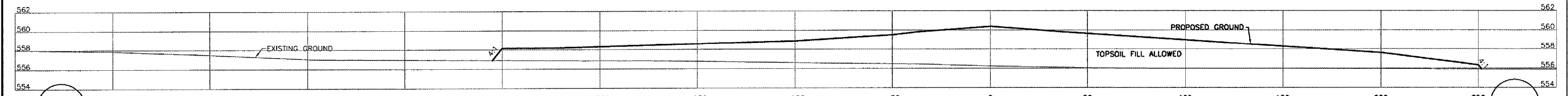
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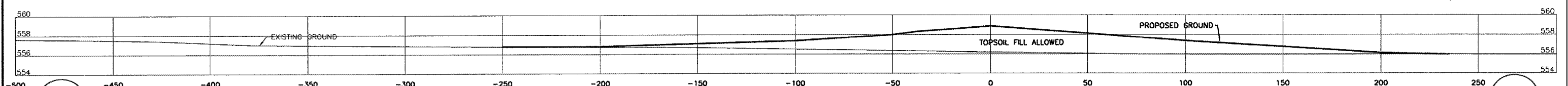
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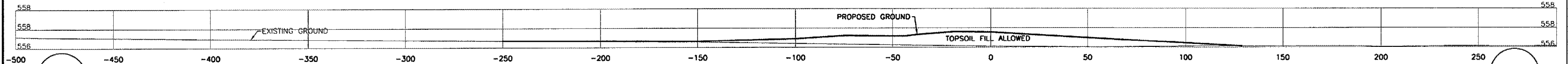
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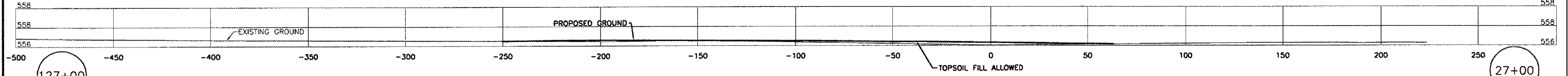
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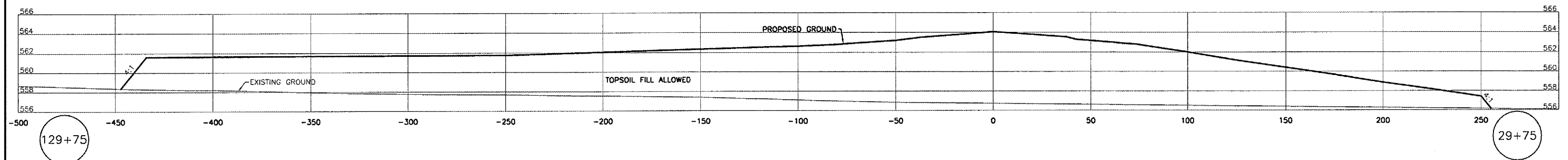
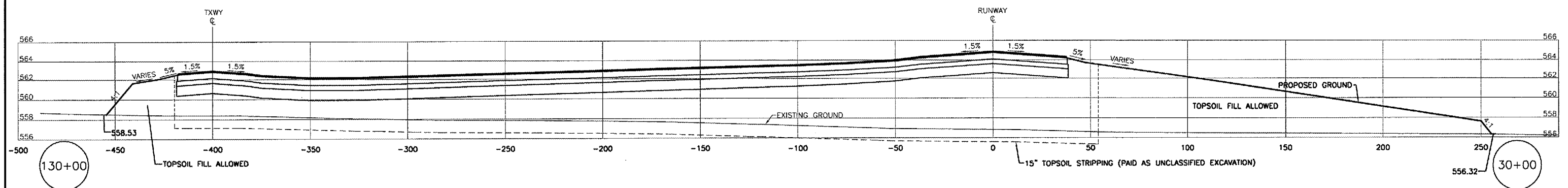
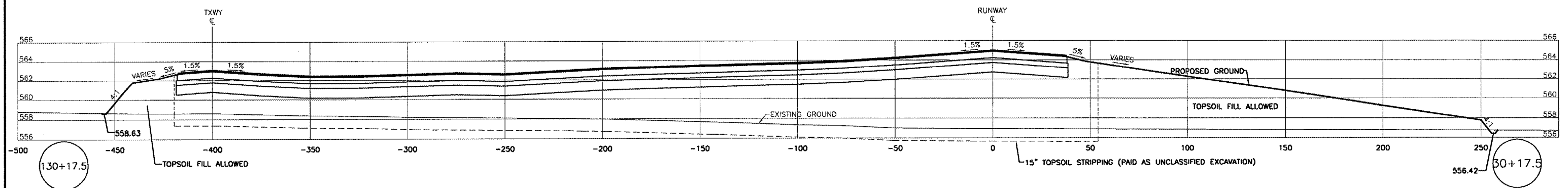
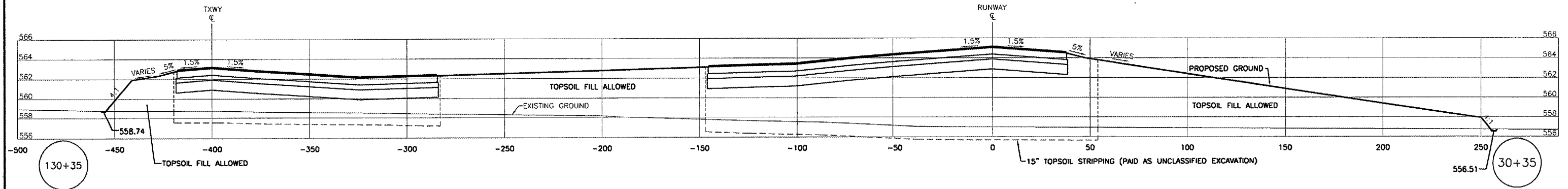
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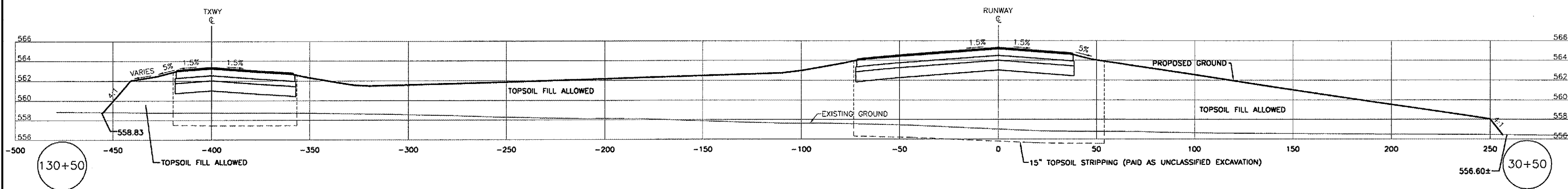
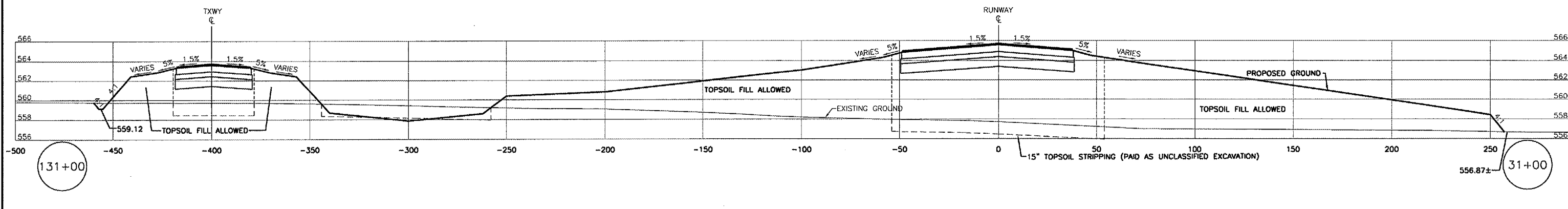
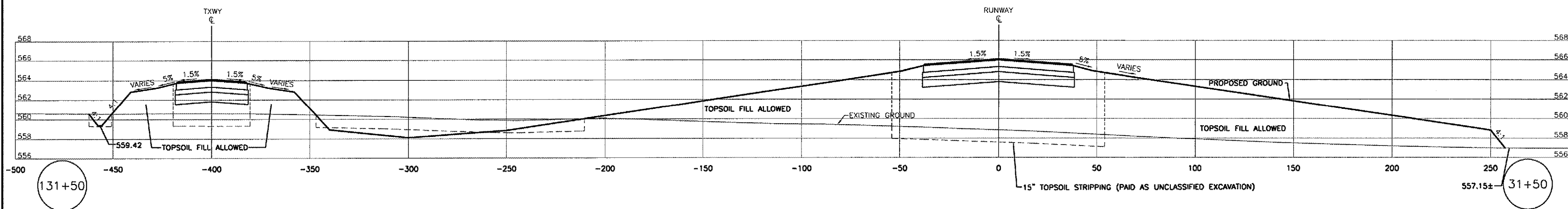
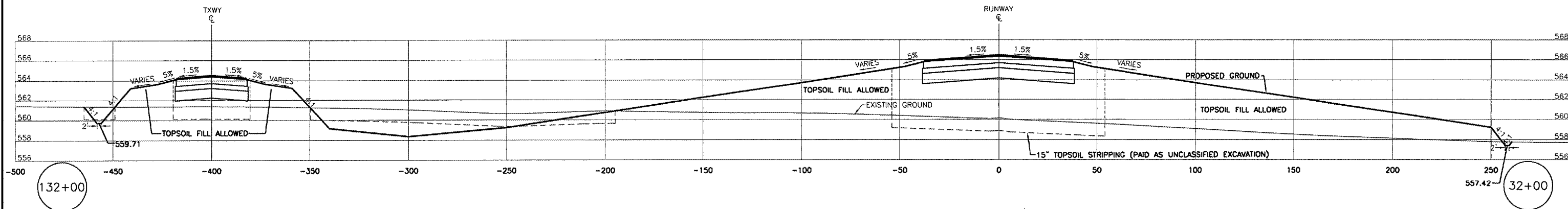
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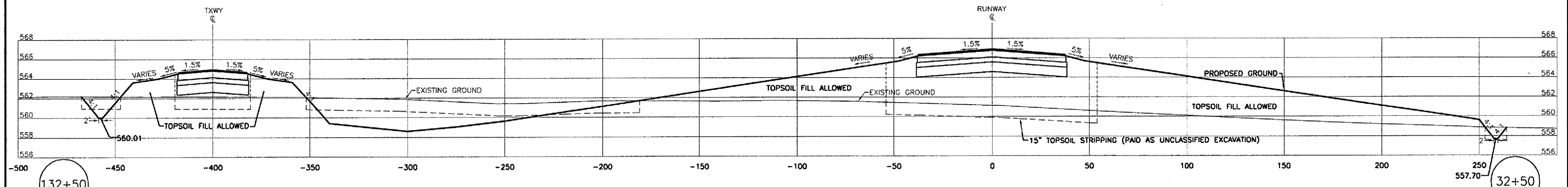
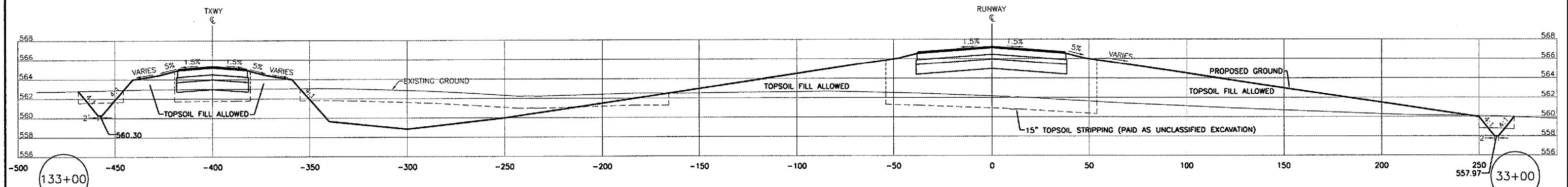
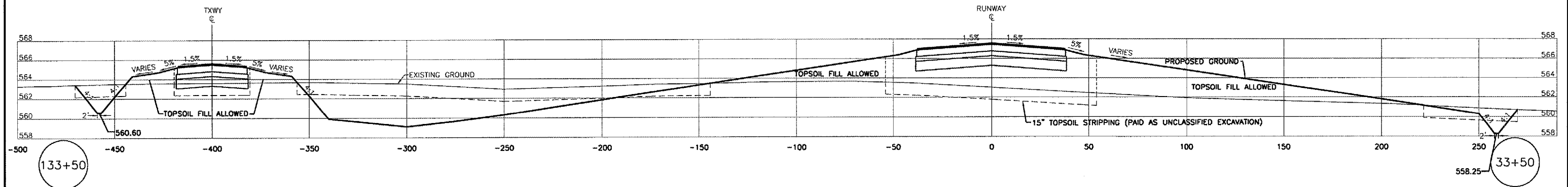
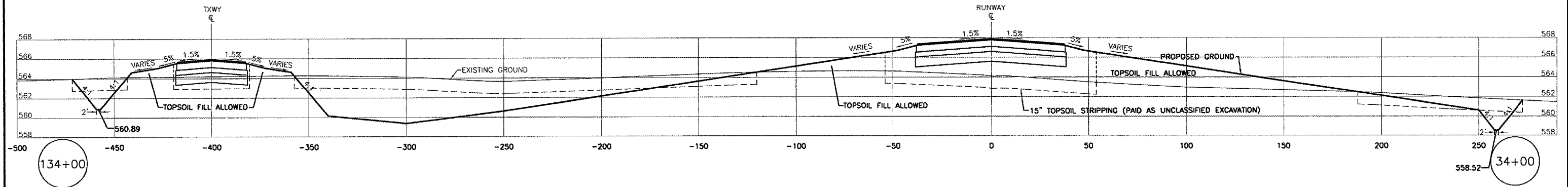
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CROSS SECTIONS

SCALE: AS NOTED	SHEET 17
FILE NO.: 1002.58Y-1	OF 21



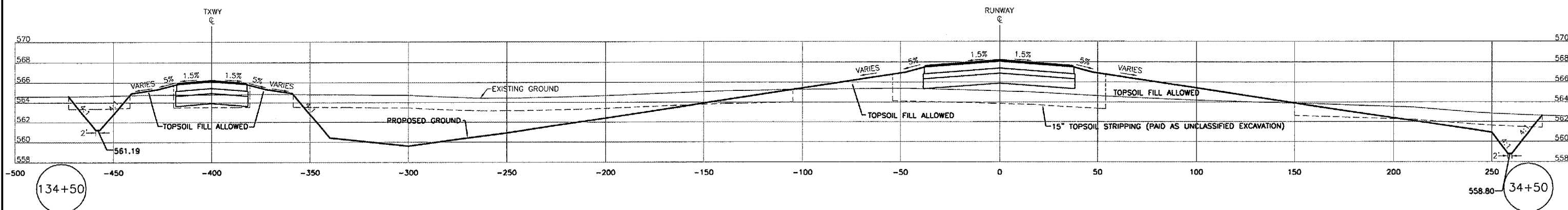
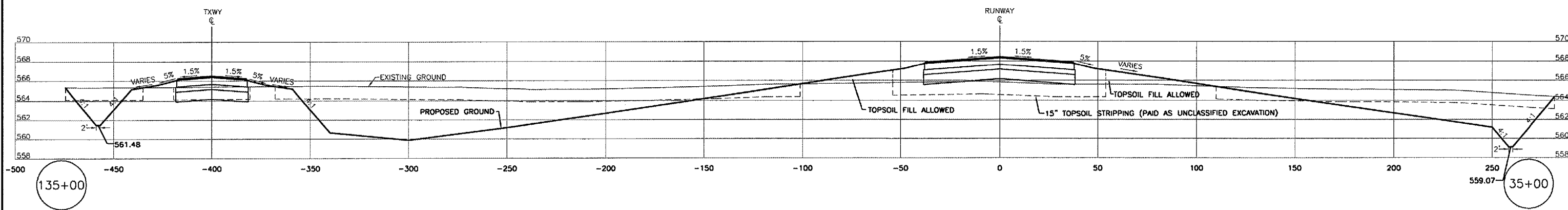
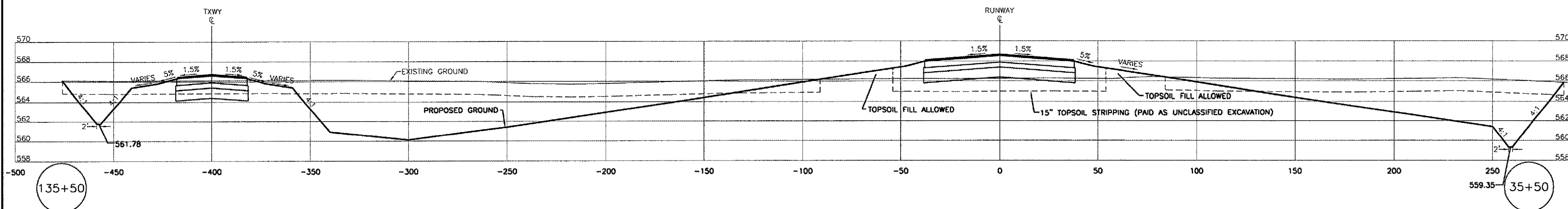
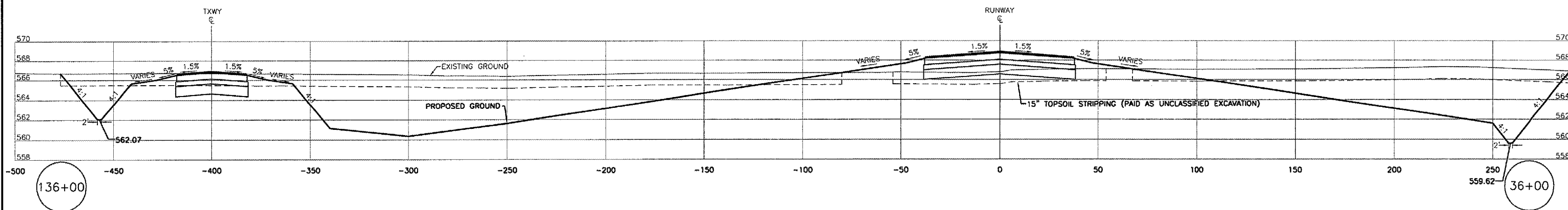
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CROSS SECTIONS

SCALE: AS NOTED	SHEET 18
FILE NO.: 1002.58Y-1	OF 21



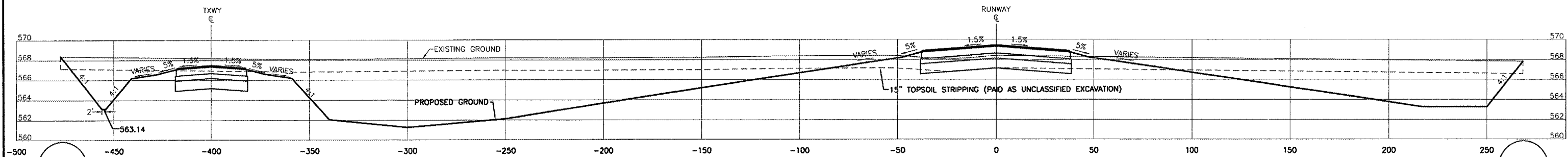
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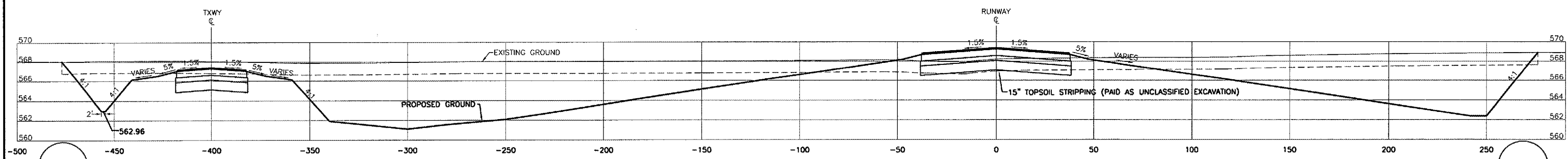
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SCALE: AS NOTED	SHEET 19
FILE NO.: 1002.58Y-1	OF 21



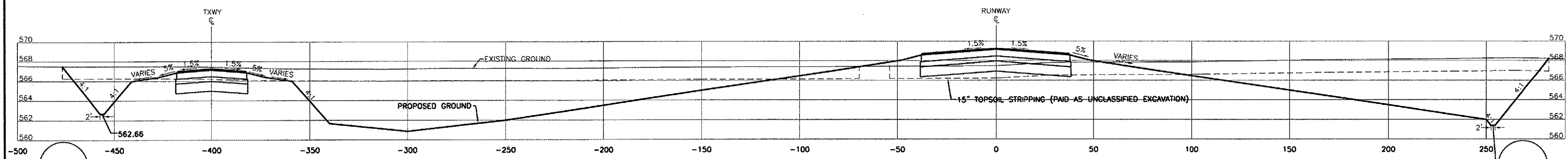
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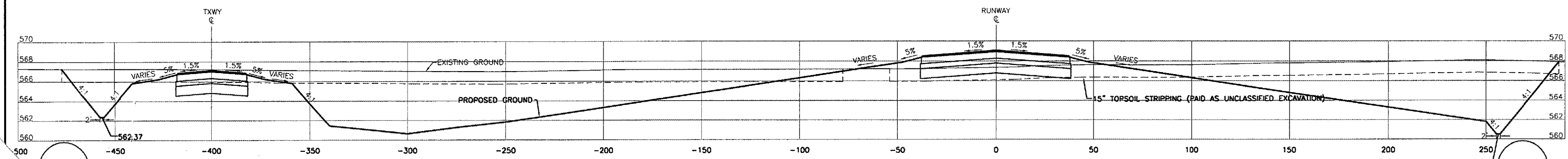
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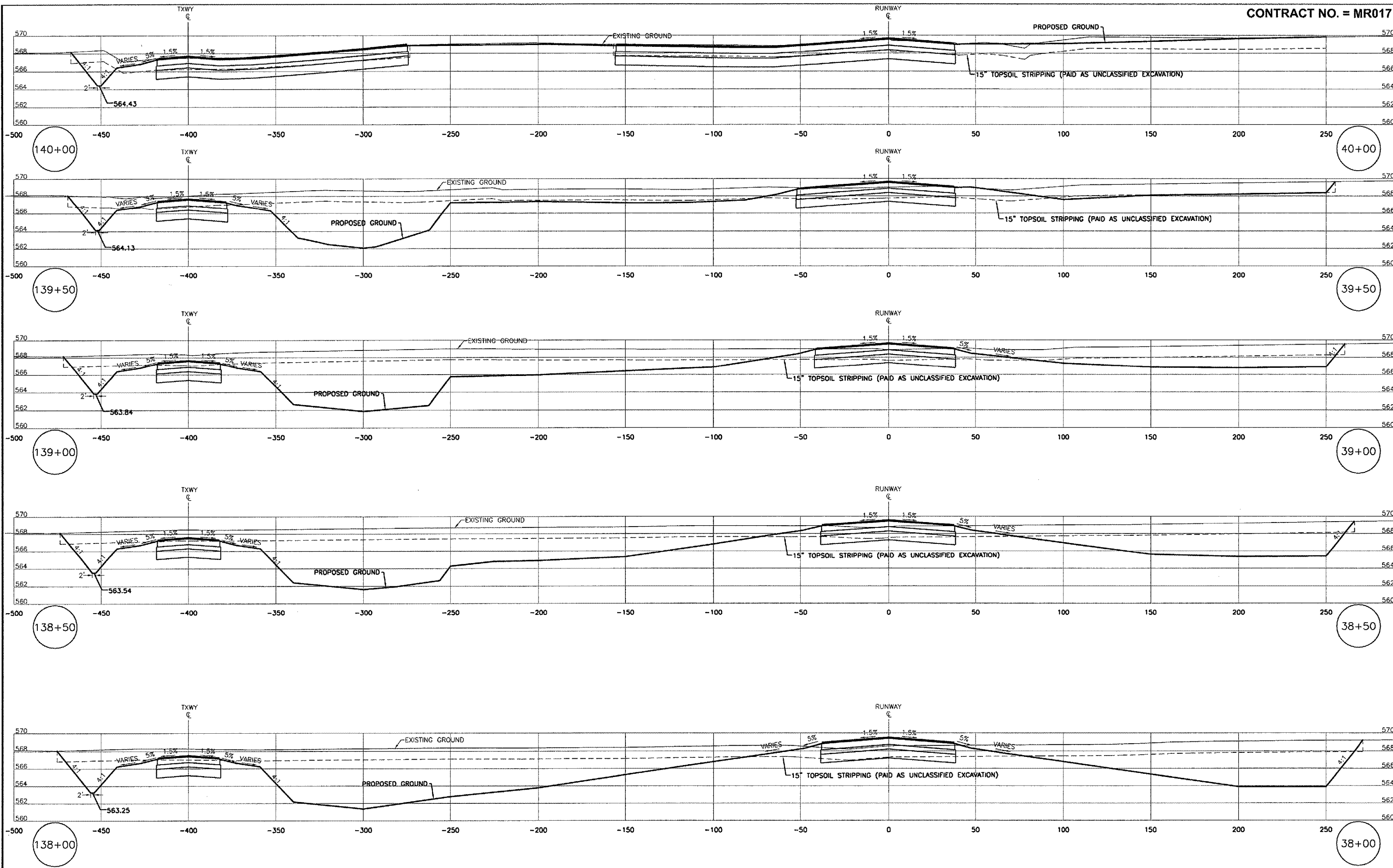
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MORRIS, ILLINOIS

CROSS SECTIONS

SCALE: AS NOTED	SHEET 20
FILE NO.: 1002.58Y-1	OF 21



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CROSS SECTIONS

SCALE: AS NOTED	SHEET 21
FILE NO.: 1002.58Y-1	OF 21