

ITEM NO. 10A

LE036  
TOTAL SHEETS = 30

INDEX OF SHEETS

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16	CROSS SECTIONS ALIGNMENT 400, STA 406+00 THRU STA 407+50
17	CROSS SECTIONS ALIGNMENT 400, STA 408+00 THRU STA 408+50
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19	CROSS SECTIONS ALIGNMENT 600, STA 592+96 THRU STA 594+00
20	CROSS SECTIONS ALIGNMENT 600, STA 594+50 THRU STA 595+50
21	CROSS SECTIONS ALIGNMENT 600, STA 596+00 THRU STA 597+00
22	CROSS SECTIONS ALIGNMENT 600, STA 597+50 THRU STA 598+50
23	CROSS SECTIONS ALIGNMENT 600, STA 599+00 THRU STA 600+00
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25	CROSS SECTIONS ALIGNMENT 600, STA 602+50 THRU STA 603+20
26	LANDSCAPING AND STORMWATER POLLUTION PREVENTION PLAN
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28	BORING LOCATION MAP
29	BORING LOGS, B5-1 THRU B5-5
30	BORING LOGS, B5-6 THRU B5-10

6-17-05 LETTING, ITEM 10A

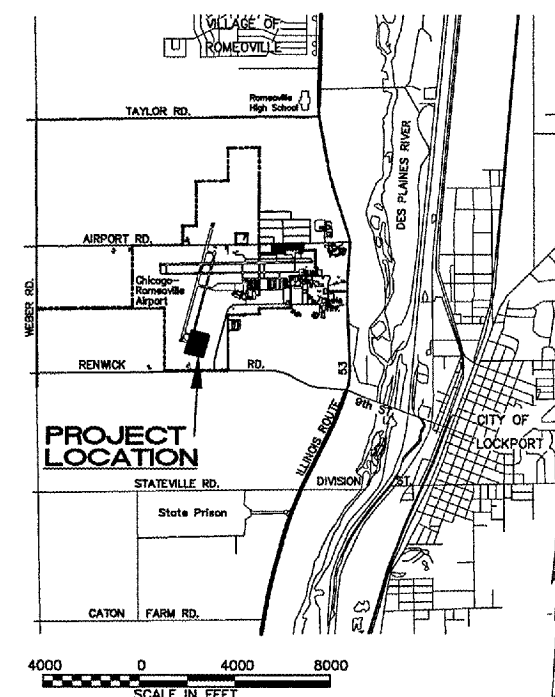
CONSTRUCTION PLANS

# SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

## JOLIET REGIONAL PORT DISTRICT CHICAGO-ROMEDEVILLE AIRPORT (LOT) ROMEDEVILLE, WILL COUNTY, ILLINOIS

### AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

VICINITY MAP



SHEET NO. 1 OF 30

**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.

I:\LOCKPORT\008401\AEB042\DRAININGS\SHEETS\01 - COVER.DWG MAY 13, 2005 1:11PM TRM

No.	Issue/Description	Sheets Changed	Date	By

**TODD M. MERRIHEW**  
062-053655  
REGISTERED PROFESSIONAL ENGINEER  
TODD MERRIHEW, P.E.  
Date of Plans  
MAY 6, 2005

*EXPIRES 16/30/05*

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SOUTHWEST CORPORATE AREA,  
GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
IDA PROJECT NO. LOT-3498

**CONSTRUCTION AND SAFETY NOTES**

**SEQUENCE OF CONSTRUCTION**

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION AND WORK MUST BE COMPLETED EXPEDITIOUSLY. THE CONTRACTOR IS TO PREPARE AND FOLLOW A STAGING PLAN THAT COORDINATES HIS WORK WITH THE WORK OF HIS SUBCONTRACTORS AND THE WORK OF OTHER CONTRACTORS ON-FIELD. THIS STAGING PLAN MUST BE SATISFACTORY TO THE PROJECT ENGINEER AND THE AIRPORT DIRECTOR. NO CLOSURE OF ACTIVE AIRFIELD PAVEMENTS WILL BE ALLOWED DURING THIS PROJECT.

**LATHING AND WARNING TAPE**

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE CONSTRUCTION AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE AS SHOWN ON THE SITE PLAN, AND DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. THE CONTRACTOR WILL FURNISH, PLACE, MAINTAIN AND RELOCATE THE LATHING AND WARNING TAPE AS REQUIRED. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

**TEMPORARY BARRICADES ON AIRFIELD**

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

**AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION**

ALL CONSTRUCTION TRAFFIC AND PERSONNEL SHALL REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHOWN ON THE SITE PLAN. CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST NOT OPERATE WITHIN 250 FEET OF AN ACTIVE RUNWAY CENTERLINE, WITHIN 800 FEET OF AN ACTIVE RUNWAY END (USING FAA TEMPORARY THRESHOLD LOCATION CRITERIA), WITH 65.5 FEET OF AN ACTIVE TAXIWAY CENTERLINE, OR WITHIN 40 FEET OF AN ACTIVE APRON EDGE.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT, STORAGE AND PARKING AREA. AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE RUNWAY APPROACH SURFACE.

PAVEMENTS WHICH BECOME DIRTY DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE CLEANED WITH A PICKUP TYPE SWEEPER. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR AND IS INCIDENTAL TO THE CONTRACT.

**CONTRACTOR'S USE OF SITE**

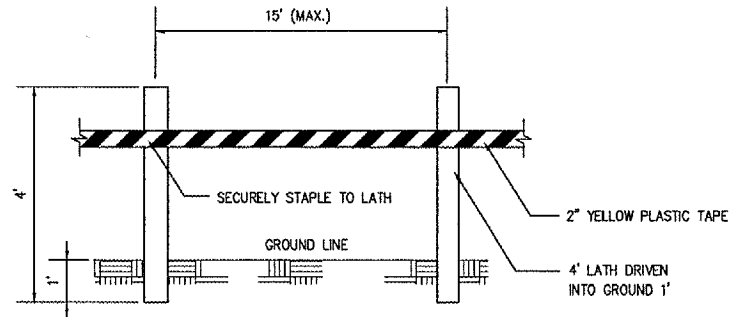
THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCRROACH UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBJECT AND OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AVIATION REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE".

**UTILITY OUTAGES AND SHUTDOWNS**

THE CONTRACTOR SHALL PROVIDE 72 HOURS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.

**AVAILABLE SOIL DATA**

A BORING LOCATION PLAN AND SOIL BORING LOGS ARE INCLUDED WITH THE PLANS. ADDITIONAL DETAILED SOIL TEST MATERIAL IS ALSO AVAILABLE UPON REQUEST. BORING INFORMATION AND INFORMATION ON SOIL TESTS IS MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF THE BIDDER AND/OR CONTRACTOR. NEITHER THE OWNER NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE AVAILABLE INFORMATION AND THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE CONDITIONS DESCRIBED IN THE SOIL TEST DATA ARE REPRESENTATIVE OF ALL CONDITIONS THAT MAY BE ENCOUNTERED.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

**DETAIL A  
LATHING AND WARNING TAPE**

No.	Drawing Issue Description	Date	By

Date  
MAY 6, 2005  
Sheet Title

**CONSTRUCTION AND SAFETY NOTES AND DETAILS**

840-04D8042  
Project Number  
SJM 04/20/05  
Layout By Date  
SJM 04/20/05  
Designed By Date  
RMH/TMM 04/22/05  
Reviewed By Date  
SJM  
Drawn By Sheet No.

DETAILS SHOWN ARE NOT TO SCALE

P:\LOCAL\051\00840\04EBA02\DRAWINGS\SAFETY NOTES\04 - CONSTRUCTION & SAFETY NOTES.DWG, MAY 13, 2005 1:29PM TMM





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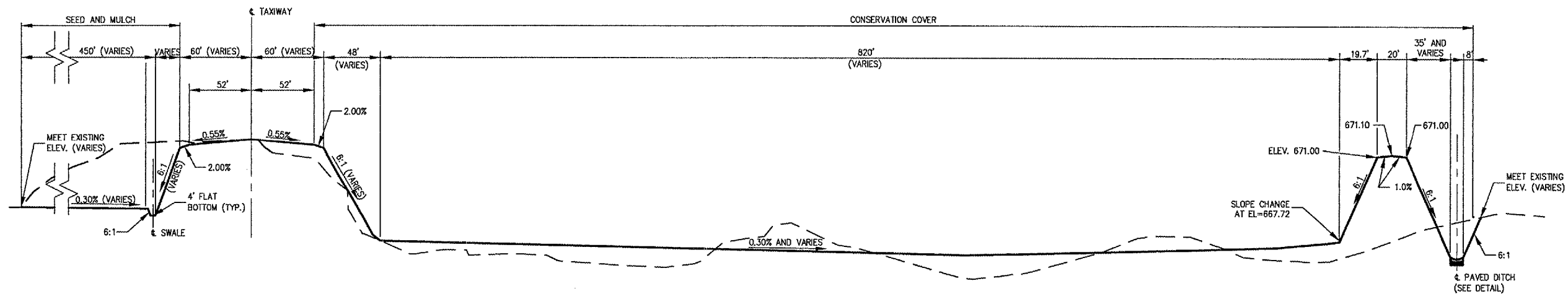


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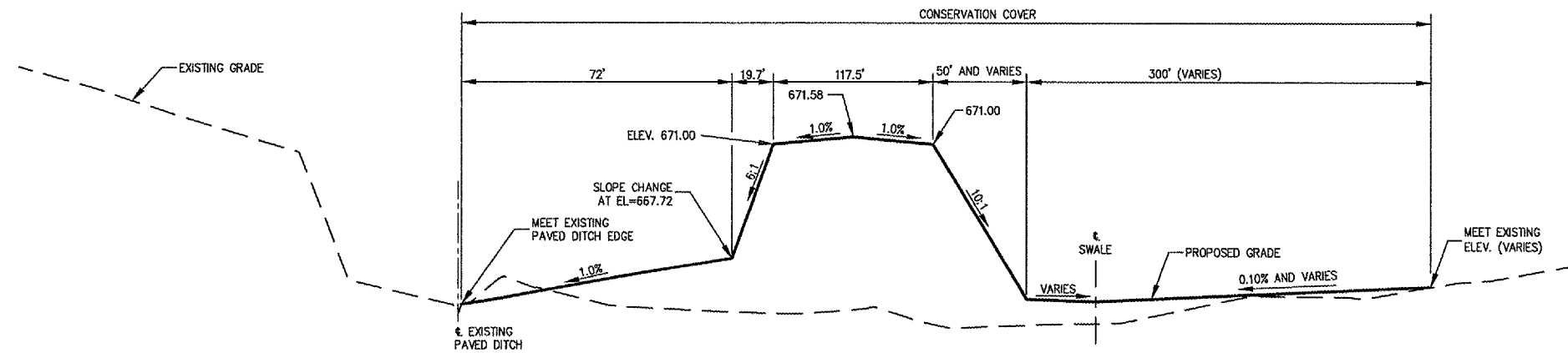
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SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498



**TYPICAL SECTION - DETENTION BASIN**  
 (SECTION SHOWN LOOKING EAST)



**TYPICAL SECTION - DETENTION BASIN**  
 (SECTION SHOWN LOOKING NORTH)

**NOTES**

- ① FUTURE PAVEMENT AREAS:  
 ONLY SUITABLE FILL MATERIAL MAY BE PLACED WITHIN 5' OF FUTURE PAVEMENT AREAS, SEE PLANS FOR LOCATION OF THESE AREAS.
  - ② BALANCING OF THE EARTHWORK IS BASED UPON THE FOLLOWING USE OF TOPSOIL:  
 CUT AREAS - 4" OF TOPSOIL TO BE PLACED.  
 FILL AREAS - DETENTION BASIN BERMS SHALL BE CONSTRUCTED OF TOPSOIL FROM CUT AREAS AND FROM TOPSOIL FROM TAXIWAY E AND GA APRON CONSTRUCTION.
  - ③ TOPSOIL REMOVAL (INCLUDED IN ITEM AR152410)
  - ④ PROPOSED PREPARED SUBGRADE:  
 CUT AREAS- REMOVE TOPSOIL TO FINISHED SUBGRADE ELEV., ADDITIONAL UNDERCUT BELOW FINISHED SUBGRADE IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)\*  
 FILL AREAS- REMOVE TOPSOIL, ADDITIONAL UNDERCUT IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)\*
- \* ALL TOPSOIL TO BE REMOVED WITHIN 5' OF PROPOSED PAVEMENT AREAS AND UNDER FUTURE HANGAR SITES (QUANTITY INCLUDED IN ITEM AR152410). NO TOPSOIL OR UNSUITABLE TO BE PLACED UNDER THE PAVEMENT SECTION WITHIN 5' OF PAVEMENT EDGES, SEE UNDERCUT PLAN.

No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005  
 Sheet Title

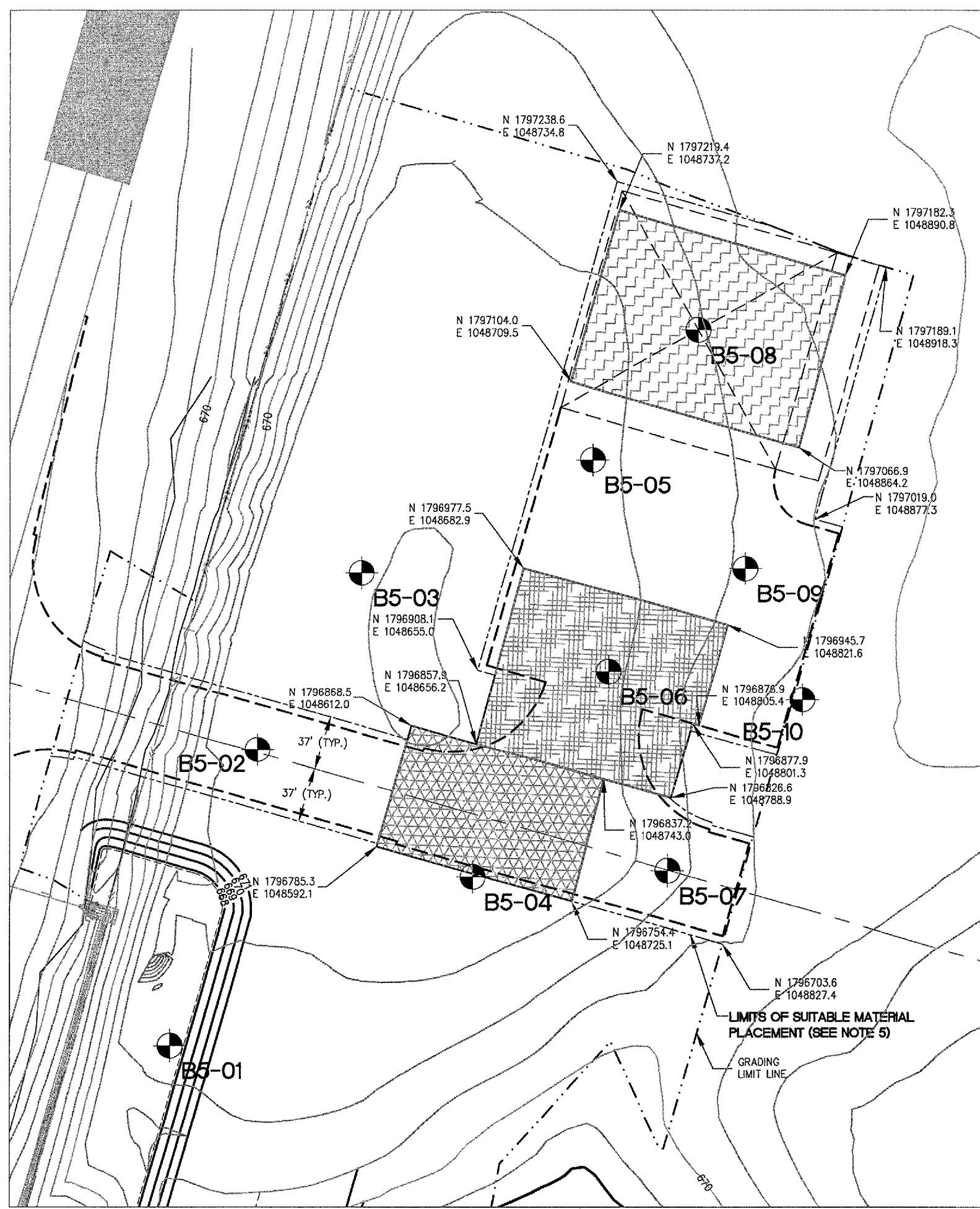
**TYPICAL SECTIONS -  
 DETENTION BASIN**

840-04D8042	Project Number
SJM 04/20/05	Layout By Date
SJM 04/20/05	Designed By Date
RMH/TMM 04/22/05	Reviewed By Date
SJM	Drawn By
	Sheet No.

I:\04\804\00840\04E8042\PARAMS\SHEETS\05 - TYP. SECTIONS - L.DWG MAY 13, 2005 1:12PM TMM



C:\TEMP\ACB\BLSL 2266107 - UNDERCUT PLAN.DWG MAY 13, 2005 1:22PM TMM

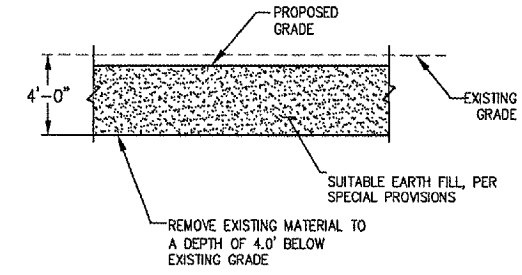
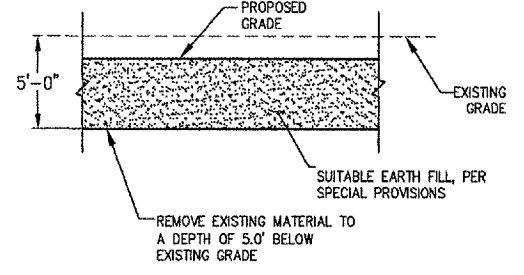
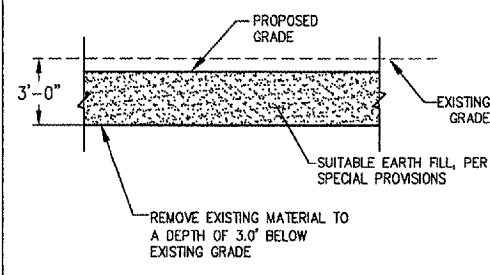


**NOTES**

1. UNDERCUT TO BE PAID AS DETAILED AND SPECIFIED IN SPECIAL PROVISIONS.
2. AREAS SHOWN FOR UNDERCUT ARE ESTIMATES BASED ON THE SOILS INVESTIGATION. AFTER TOPSOIL REMOVAL, ALL AREAS WITHIN 5' OF FUTURE PAVEMENT EDGES ARE TO BE PROOF ROLLED.
3. PROOF ROLLING VEHICLE IS TO BE A LOADED TANDEM AXLE DUMP TRUCK OF AT LEAST 24 TON WEIGHT.
4. EXCAVATION REQUIRED FOR UNDERCUT AS SHOWN INCLUDED IN ITEM AR152410.
5. ONLY SUITABLE MATERIAL MAY BE USED WITHIN 5' OF FUTURE HANGAR AND PAVEMENT AREAS. THE LIMITS OF THE SUITABLE MATERIAL ARE AS SHOWN ON THIS SHEET. SEE SPECIAL PROVISIONS.

**LEGEND:**

- PROPOSED UNDERCUT NO. 1 AREA, SEE DETAIL FOR REPLACEMENT INFORMATION
- PROPOSED UNDERCUT NO. 2 AREA, SEE DETAIL FOR REPLACEMENT INFORMATION
- PROPOSED UNDERCUT NO. 3 AREA, SEE DETAIL FOR REPLACEMENT INFORMATION



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SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498

No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005  
 Sheet Title

**UNDERCUT PLAN**

840-04D8042  
 Project Number  
 SJM 04/15/05  
 Layout By Date  
 SJM 04/15/05  
 Designed By Date  
 RMH/TMM 04/22/05  
 Reviewed By Date  
 SJM  
 Drawn By

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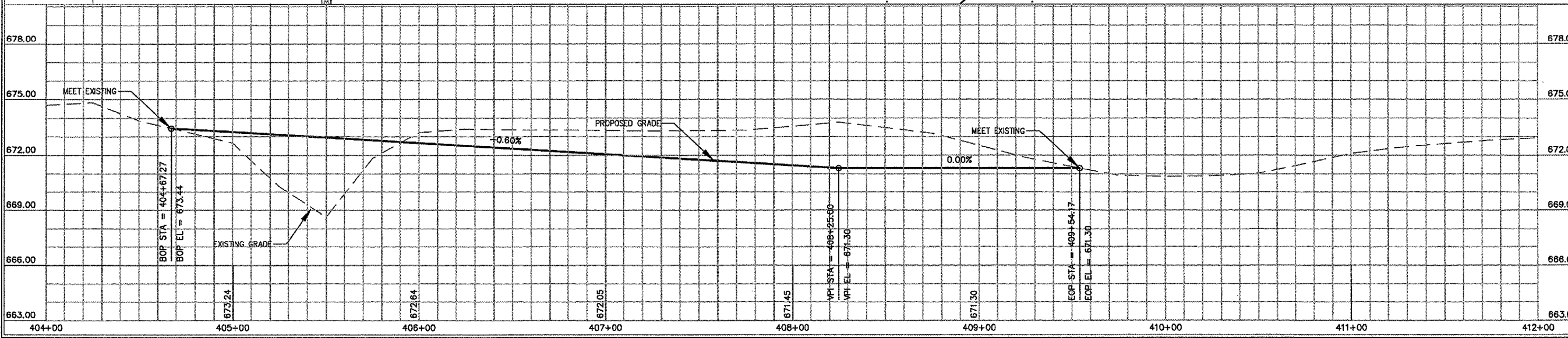
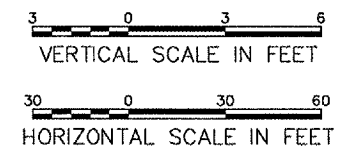
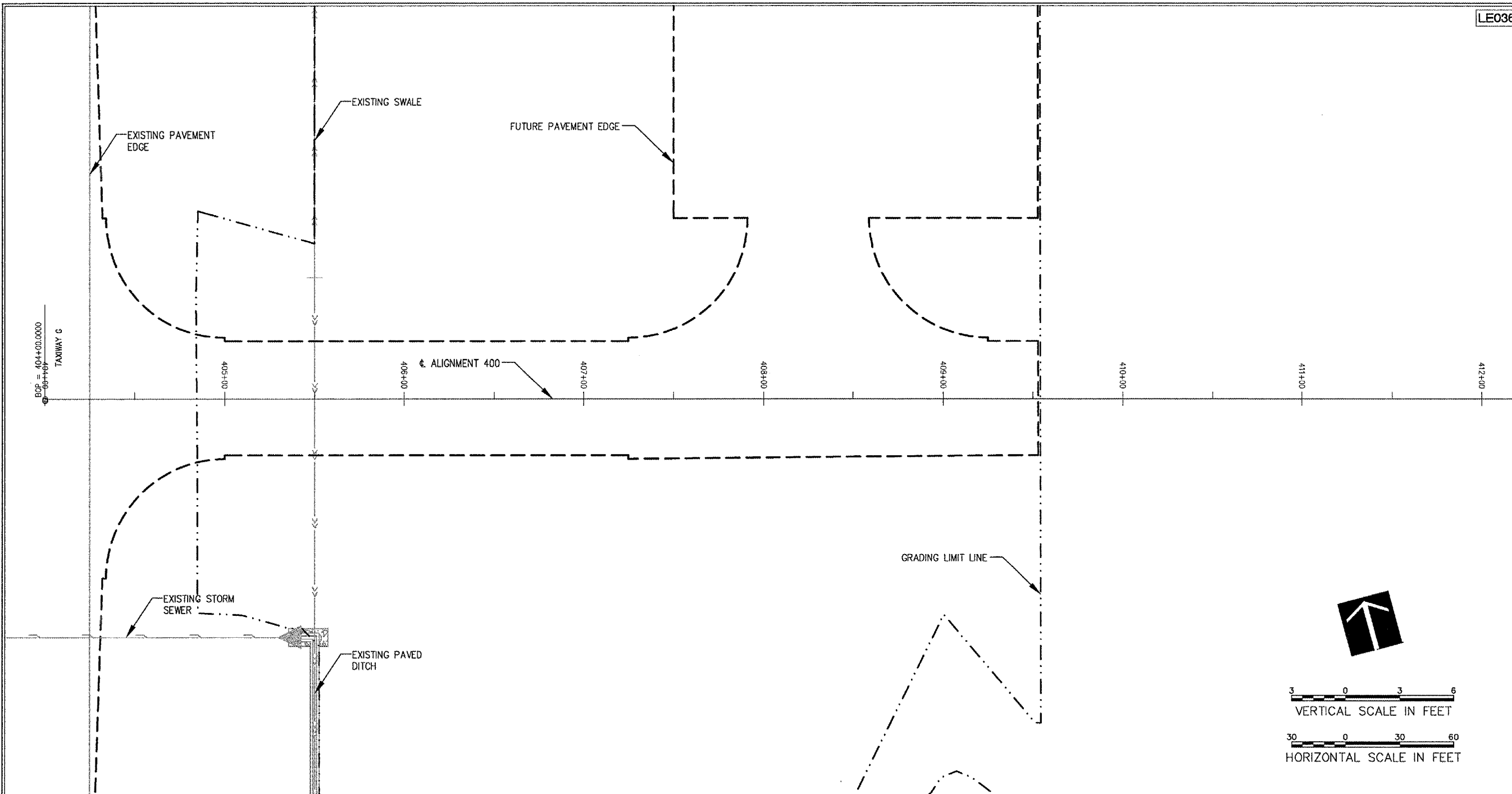


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SOUTHWEST CORPORATE AREA,  
GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
IDA PROJECT NO. LOT-3498



No.	Drawing Issue Description	Date	By

Date  
MAY 6, 2005

Sheet Title

**PLAN AND PROFILE -  
ALIGNMENT 400**

840-04D8042  
Project Number  
SJM 04/20/05  
Layout By Date  
SJM 04/20/05  
Designed By Date  
RMH/TMM 04/22/05  
Reviewed By Date  
SJM  
Drawn By Sheet No.

LE036



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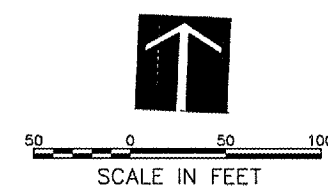
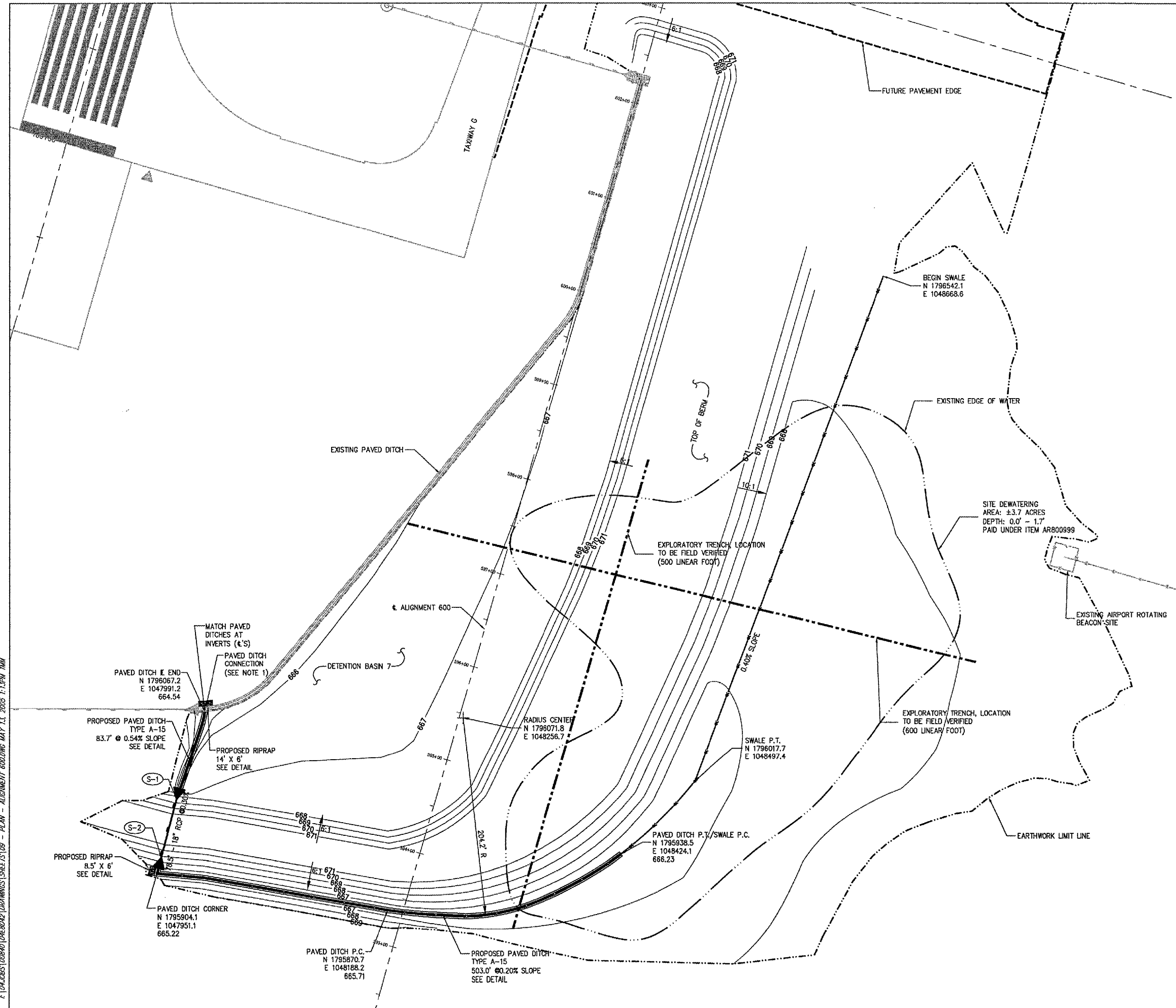
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SOUTHWEST CORPORATE AREA,  
GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
IDA PROJECT NO. LOT-3498

NOTES:

- 3:1 SIDE SLOPE ON EXISTING PAVED DITCH TO BE SAWCUT AND REMOVED FOR INSTALLATION OF PROPOSED PAVED DITCH, COST INCIDENTAL TO ITEM AR800929.
- LOCATIONS GIVEN FOR PAVED DITCH ARE AT THE E OF THE DITCH.
- RIPRAP TO BE CENTERED ON PAVED DITCH.



LEGEND

- > EXISTING UNDERDRAIN
- > EXISTING STORM SEWER
- > EXISTING ELECTRIC
- > EXISTING SWALE
- > EXISTING FENCE
- > PROPOSED STORM SEWER
- > PROPOSED SWALE
- ⊙ EXISTING STORM SEWER MANHOLE
- ▽ EXISTING FLARED END SECTION
- ▽ PROPOSED FLARED END SECTION

No.	Drawing Issue Description	Date	By

Date  
MAY 6, 2005

PLAN - ALIGNMENT 600

840-0408042  
Project Number

SJM	04/20/05
Layout By	Date
SJM	04/20/05
Designed By	Date
RMH/TMM	04/22/05
Reviewed By	Date
SJM	---
Drawn By	Sheet No.

1: (04.0805) (020840) (04E0302) (DRAININGS) (SHEETS) (05) - PLAN - ALIGNMENT 600.DWG MAY 11, 2005 1:13PM TMM

COMBINED EARTHWORK QUANTITIES

DESCRIPTION	VOLUME (C.Y.)	VOLUME (C.Y.)	VOLUME (C.Y.)
MATERIAL TO BE PLACED IN STOCKPILES*			10,770
TOPSOIL CUT=	15,982		
NON-STRUCTURAL CUT=	2,891		
STRUCTURAL CUT=	8,117		
TOTAL UNCLASSIFIED EXCAVATION=	26,990		
TOPSOIL FILL PER ITEM 905510=		6,776	
NON-STRUCTURAL FILL (7.5% SHRINK)=		15,528*	
STRUCTURAL FILL (12.5% SHRINK)=		4,608	
TOTAL FILL=		26,912	
EXCESS=			78

\* NOTE: MATERIAL PLACED IN STOCKPILES BY OTHERS SUBTRACTED FROM NON-STRUCTURAL FILL, BUT NOT SHOWN ON CROSS SECTIONS

NOTES:

1. ALL STAKING PLAN ELEVATIONS ARE AT CROSS SECTION STATIONS UNLESS NOTED OTHERWISE.
2. STATIONING BASED ON ALIGNMENTS AS SHOWN. ENGINEER WILL PROVIDE BENCHMARKS WITH STATION, OFFSET, AND ELEVATION FOR CONTRACTOR'S USE.
3. THE TOPSOIL STOCKPILE BY OTHER WILL BE USED FOR BERM CONSTRUCTION AND TOPSOIL PLACEMENT.
4. SEE DRAINAGE DETAILS FOR STORM SEWER SCHEDULE.

ALIGNMENT DATA

DESCRIPTION	BEGINNING OF ALIGNMENT 400	END OF ALIGNMENT 400
STATION	404+00	415+74.8
NORTHING	1,796,896.68	1,796,620.92
EASTING	1,048,297.33	1,049,439.32



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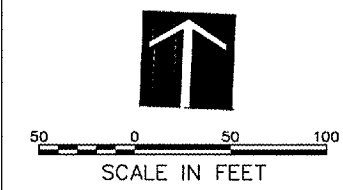
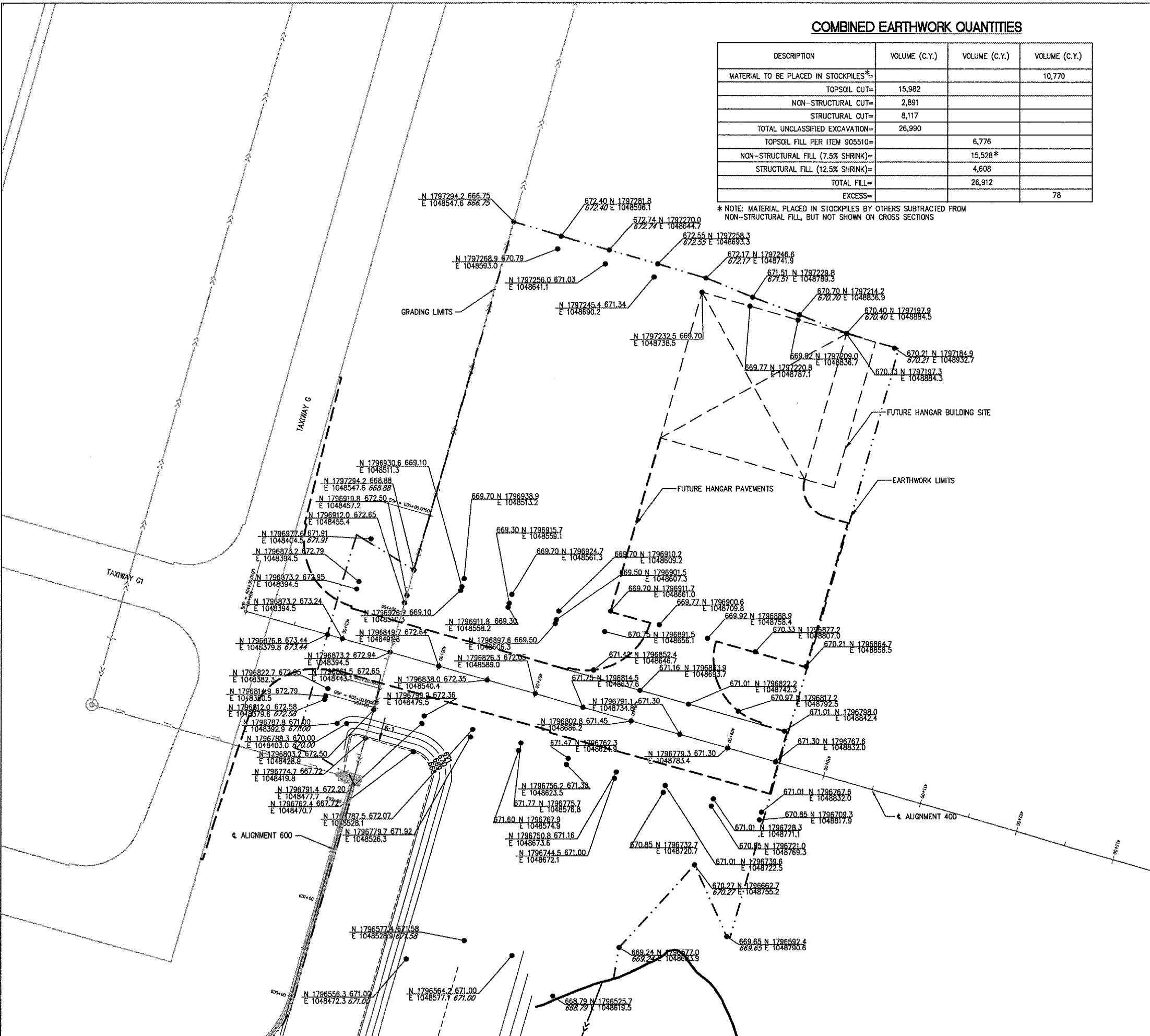
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GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
IDA PROJECT NO. LOT-3498

A:\04\025\00840\040202\DRAWINGS\STAKING\10 - STAKING PLAN ALIGNMENT 400.DWG MAY 13, 2005 1:39PM TMM



- LEGEND**
- > EXISTING UNDERDRAIN
  - > EXISTING STORM SEWER
  - > EXISTING ELECTRIC
  - > EXISTING SWALE
  - > EXISTING FENCE
  - > PROPOSED STORM SEWER
  - > PROPOSED SWALE
  - EXISTING STORM SEWER MANHOLE
  - EXISTING FLARED END SECTION
  - PROPOSED FLARED END SECTION

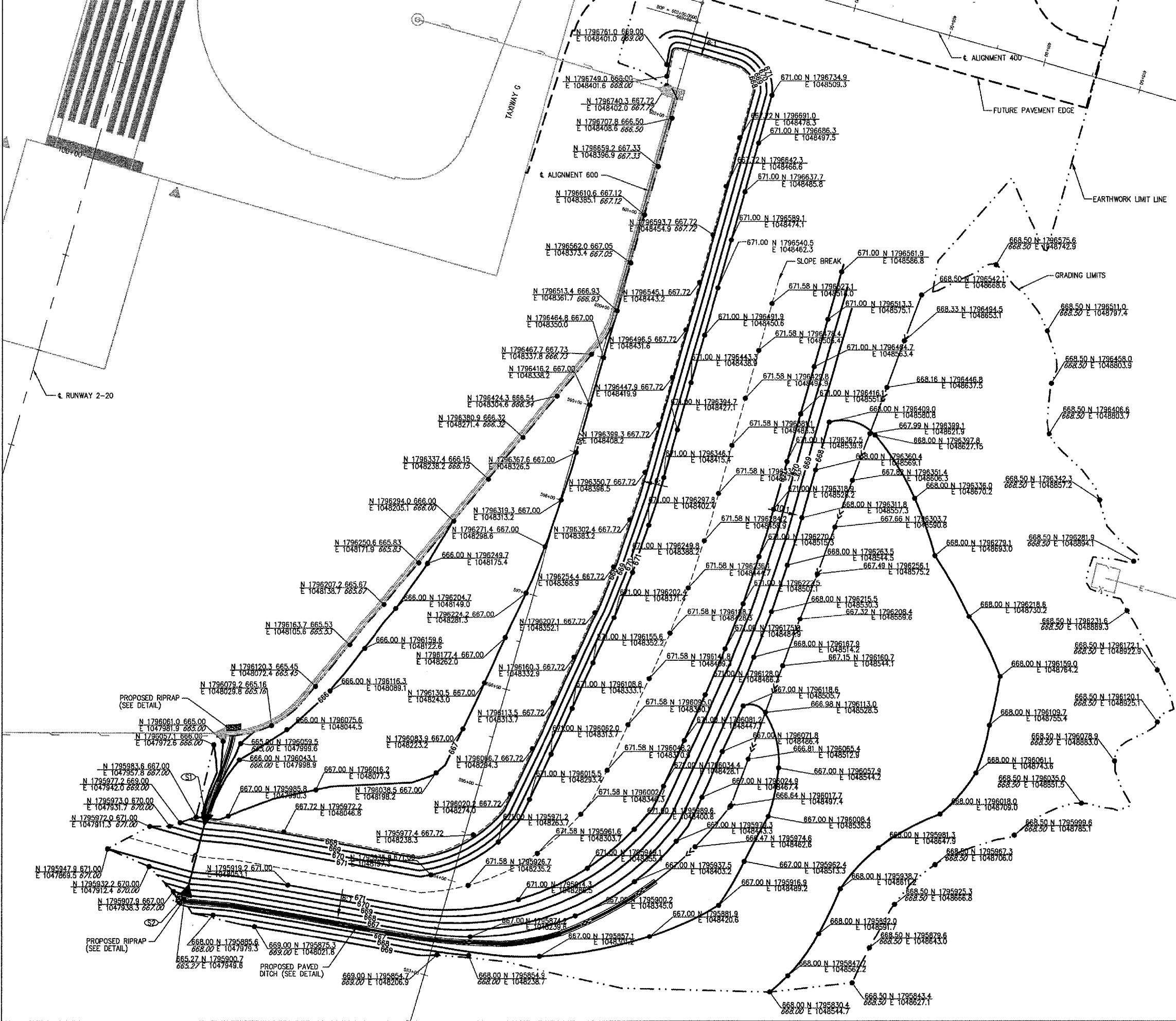
No.	Drawing Issue Description	Date	By

Date  
MAY 6, 2005  
Sheet Title

STAKING PLAN -  
ALIGNMENT 400

840-04D8042  
Project Number  
SJM 04/20/05  
Layout By Date  
SJM 04/20/05  
Designed By Date  
RMH/TMM 04/22/05  
Reviewed By Date  
SJM |---|---  
Drawn By Sheet No.





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- NOTES:**
1. ALL STAKING PLAN ELEVATIONS ARE AT CROSS SECTION STATIONS UNLESS NOTED OTHERWISE.
  2. STATIONING BASED ON ALIGNMENTS AS SHOWN. ENGINEER WILL PROVIDE BENCHMARKS WITH STATION, OFFSET, AND ELEVATION FOR CONTRACTOR'S USE.
  3. THE TOPSOIL STOCKPILE BY OTHERS WILL BE USED FOR BERM CONSTRUCTION AND TOPSOIL PLACEMENT.
  4. SEE DRAINAGE DETAILS FOR STORM SEWER SCHEDULE.

**ALIGNMENT DATA**

DESCRIPTION	BEGINNING OF ALIGNMENT 600	END OF ALIGNMENT 600
STATION	591+00	603+20
NORTHING	1,795,639.09	1,796,825.06
EASTING	1,048,148.03	1,048,434.17



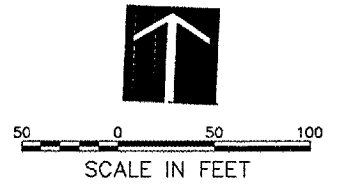
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**SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1**

**AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498**



- LEGEND**
- > EXISTING UNDERDRAIN
  - > EXISTING STORM SEWER
  - > EXISTING ELECTRIC
  - > EXISTING SWALE
  - > EXISTING FENCE
  - > PROPOSED STORM SEWER
  - > PROPOSED SWALE
  - EXISTING STORM SEWER MANHOLE
  - ▽ EXISTING FLARED END SECTION
  - ▽ PROPOSED FLARED END SECTION

No.	Drawing Issue Description	Date	By

Date: MAY 6, 2005  
 Sheet Title:

**STAKING PLAN -  
 ALIGNMENT 600**

840-048042

Project Number	840-048042
SJM	04/20/05
Layout By	Date
SJM	04/20/05
Designed By	Date
RMH/TMM	04/22/05
Reviewed By	Date
SJM	
Drawn By	

Sheet No.

A:\04\0801\08042\048042\DRAWINGS\STAKING\17 - STAKING PLAN ALIGNMENT 600.DWG MAY 13, 2005 1:14PM TMM









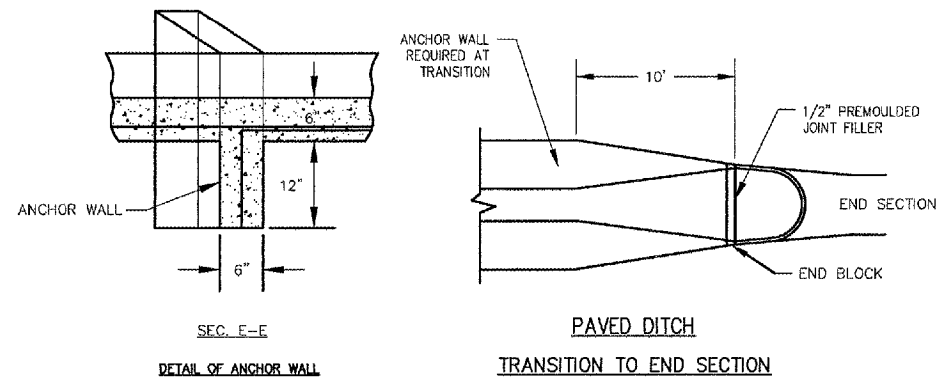
HANSON PROFESSIONAL SERVICES INC.  
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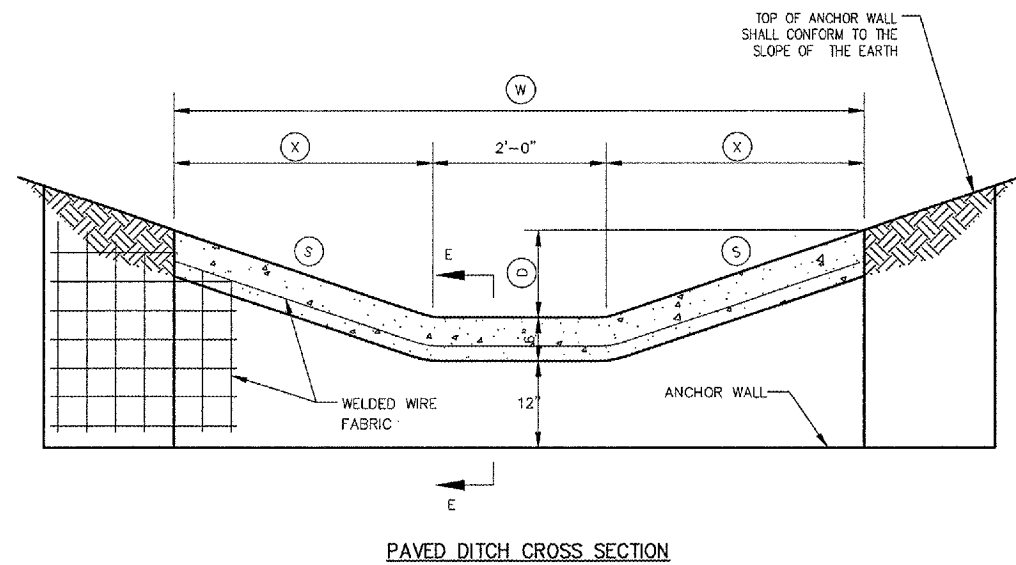
JOLIET REGIONAL PORT DISTRICT  
 1 Hangar Road  
 Romeoville, Illinois 60446  
 Telephone: 815.838.9497  
 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498



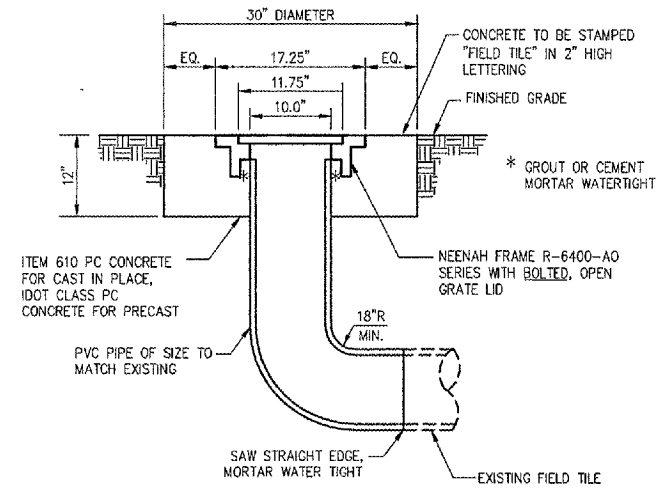
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A-15	6"	5'-0"	1'-6"	1:3



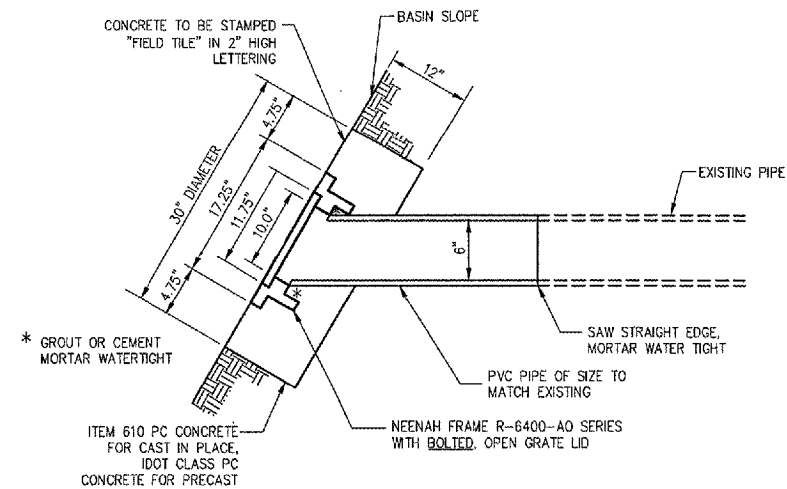
**NOTES**

- ITEM 610 PC CONCRETE SHALL BE USED THROUGHOUT.
- WELDED WIRE FABRIC SHALL BE 6"x6" MESH, #4 GAGE, 58 LBS. PER 100 SQ. FT., CONFORMING TO THE REQUIREMENTS OF AASHTO M-55.
- 1/2 INCH PREMOULDED JOINT FILLER SHALL BE PLACED AT THE JUNCTION OF PAVED DITCH WITH ANY OTHER STRUCTURE.
- ANCHOR WALLS SHALL BE SPACED AT NOT MORE THAN 50 FOOT INTERVALS.
- ANCHOR WALLS SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE PAVED DITCH.
- AT THE OPTION OF THE CONTRACTOR, #3 REINFORCING BARS PLACED AT 12 INCH CENTERS LONGITUDINALLY IN PAVED DITCH AND VERTICALLY IN ANCHOR AND CUT-OFF WALLS MAY BE USED IN LIEU OF THE WELDED WIRE FABRIC.
- THE COST OF FURNISHING AND PLACING THE JOINT FILLER AND WELDED WIRE FABRIC OR THE #3 REINFORCING BARS WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE PAVED DITCH.
- DUMMY GROOVED JOINTS ARE TO BE PLACED AT A SPACING NO TO EXCEED 15' APART. NO SECTION IS TO BE SHORTER THAN 4'.
- EXPANSION JOINTS WITH 1/2" PREMOULDED JOINT FILLER TO BE PLACED AT A SPACING NO GREATER THAN 75'.

**PAVED DITCH AND ANCHOR WALL  
 IDOT STANDARD 2258-5**



FIELD TILE BELOW BASIN GRADE



FIELD TILE ABOVE BASIN GRADE

FIELD TILE COLLAR

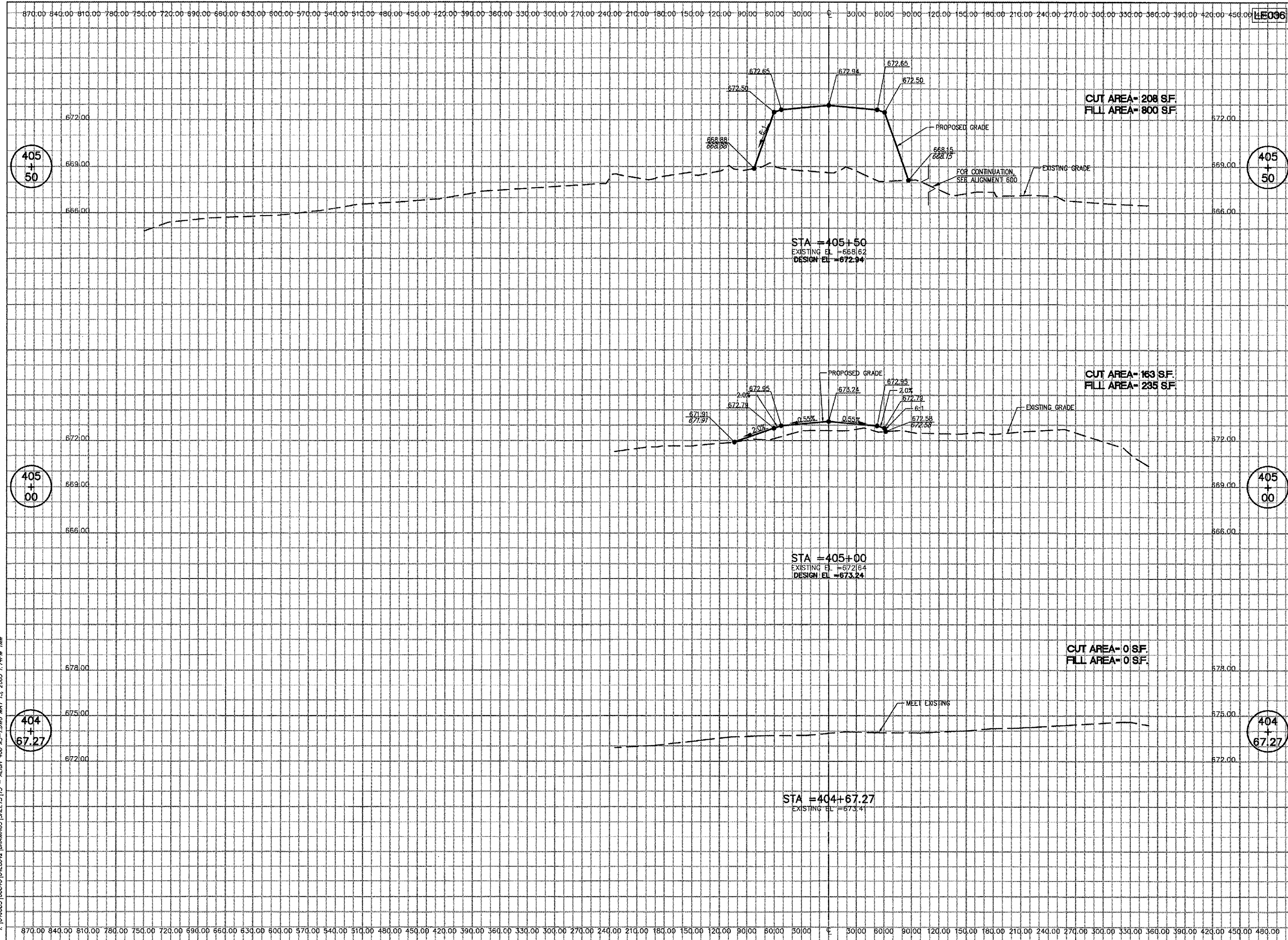
No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005  
 Sheet Title

**DRAINAGE DETAILS**

840-04D8042  
 Project Number  
 SJM 04/07/05  
 Layout By Date  
 SJM 04/07/05  
 Designed By Date  
 RMH/TMM 04/22/05  
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DETAILS SHOWN ARE NOT TO SCALE



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SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498

No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005  
 Sheet Title

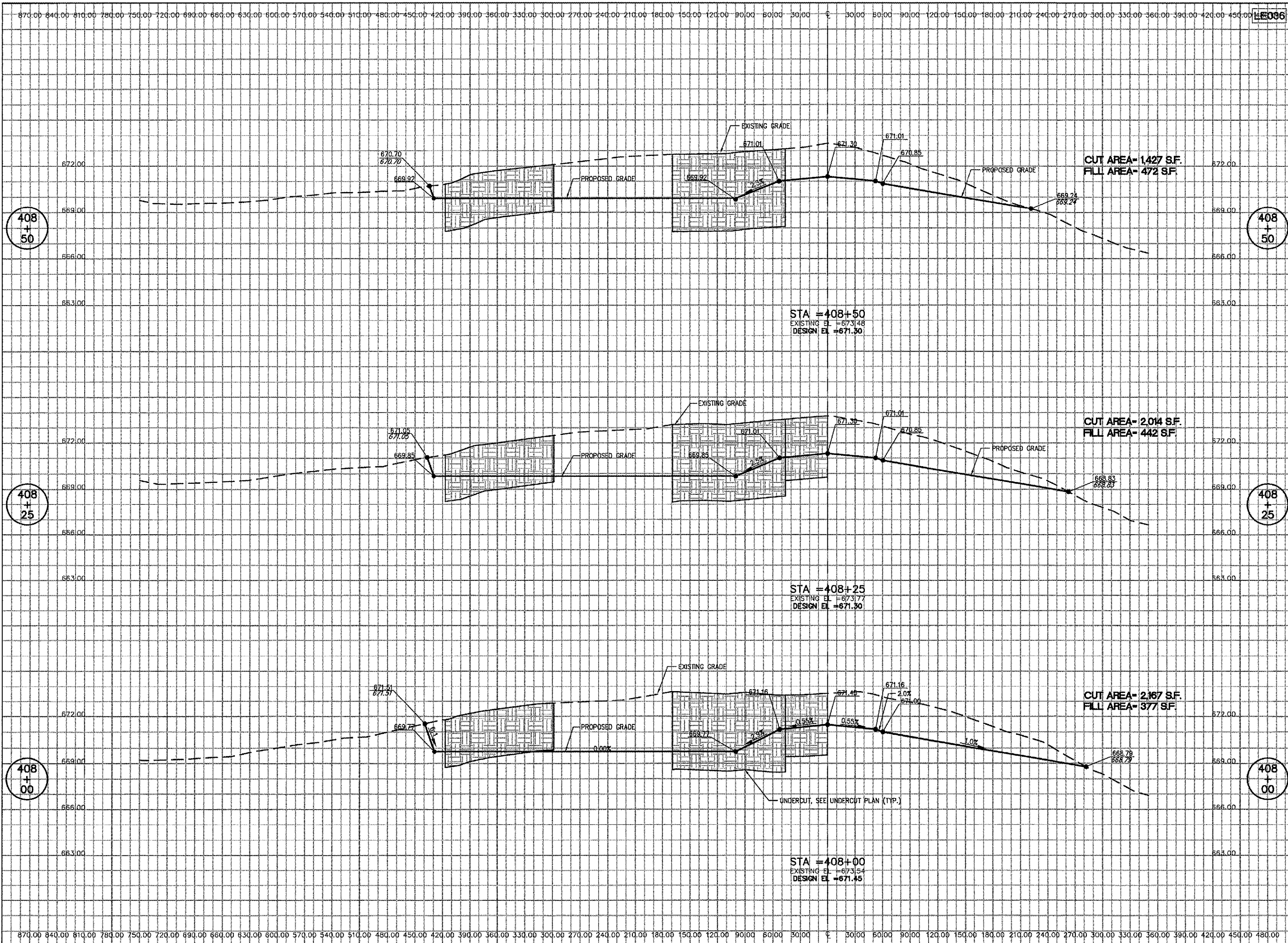
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 ALIGNMENT 400  
 STA 404+67.27 TO 405+50**

840-04D8042  
 Project Number  
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 Layout By Date  
 SJM 04/15/05  
 Designed By Date  
 RMH/TMM 04/22/05  
 Reviewed By Date  
 SJM --- ---  
 Drawn By Sheet No.

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SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498

No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005

Sheet Title  
**CROSS SECTIONS  
 ALIGNMENT 400  
 STA 408+00 TO 408+50**

840-04D8042  
 Project Number  
 SJM 04/15/05  
 Layout By Date  
 SJM 04/15/05  
 Designed By Date  
 RMH/TMM 04/22/05  
 Reviewed By Date  
 SJM --- ---  
 Drawn By Sheet No.

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SOUTHWEST CORPORATE AREA,  
GRADING AND DRAINAGE, PHASE 1

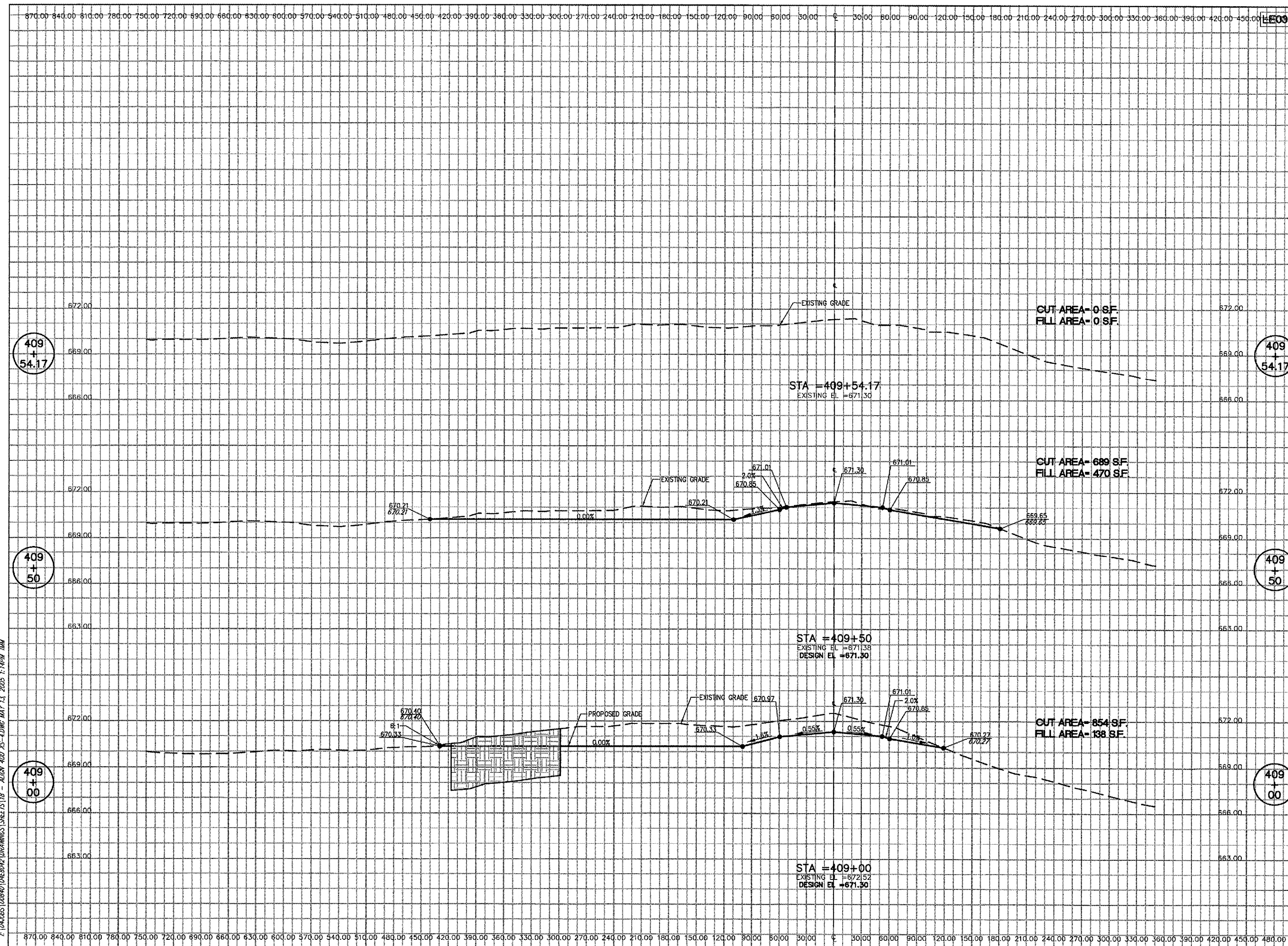
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IDA PROJECT NO. LOT-3498

No.	Drawing Issue Description	Date	By

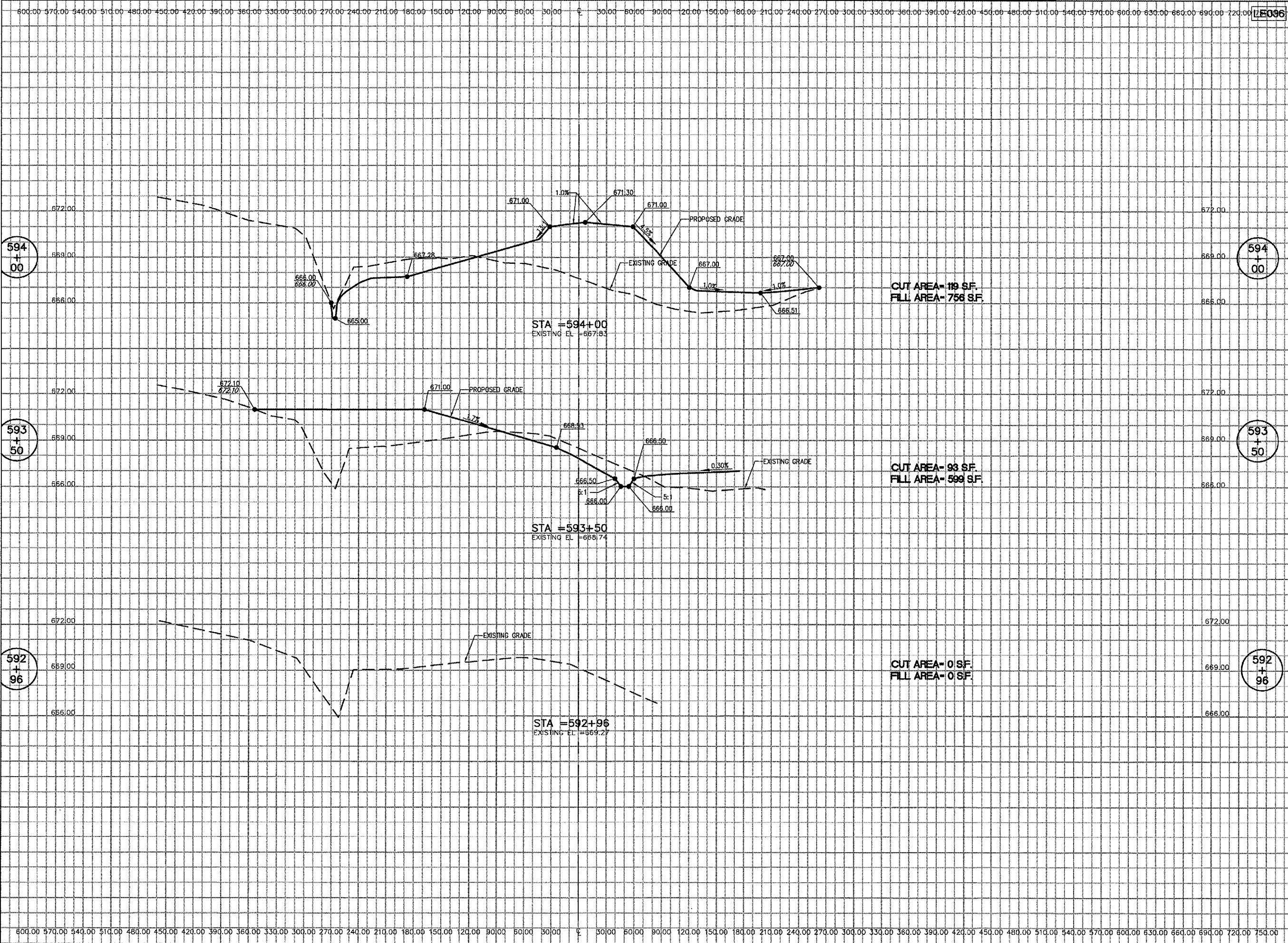
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Sheet Title  
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STA 409+00 TO 409+54.17**

840-04D8042  
Project Number  
SJM 04/15/05  
Layout By Date  
SJM 04/15/05  
Designed By Date  
RMH/TMM 04/22/05  
Reviewed By Date  
SJM  
Drawn By



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**SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1**

**AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498**

No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005

**CROSS SECTIONS  
 ALIGNMENT 600  
 STA 592+96 TO  
 STA 594+00**

840-04D8042  
 Project Number  
 S.J.M. 04/20/05  
 Layout By Date  
 S.J.M. 04/20/05  
 Designed By Date  
 RMH/TMM 04/22/05  
 Reviewed By Date  
 S.J.M. ---  
 Drawn By Sheet No.



600.00 570.00 540.00 510.00 480.00 450.00 420.00 390.00 360.00 330.00 300.00 270.00 240.00 210.00 180.00 150.00 120.00 90.00 60.00 30.00 0 30.00 60.00 90.00 120.00 150.00 180.00 210.00 240.00 270.00 300.00 330.00 360.00 390.00 420.00 450.00 480.00 510.00 540.00 570.00 600.00 630.00 660.00 690.00 720.00 **LE006**



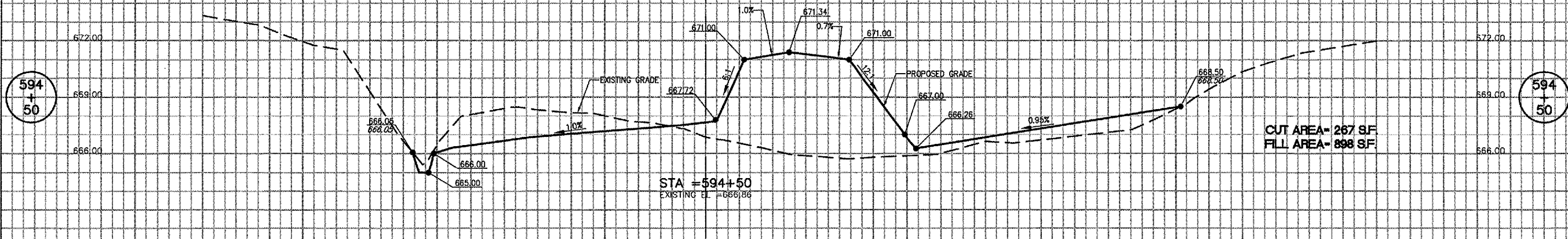
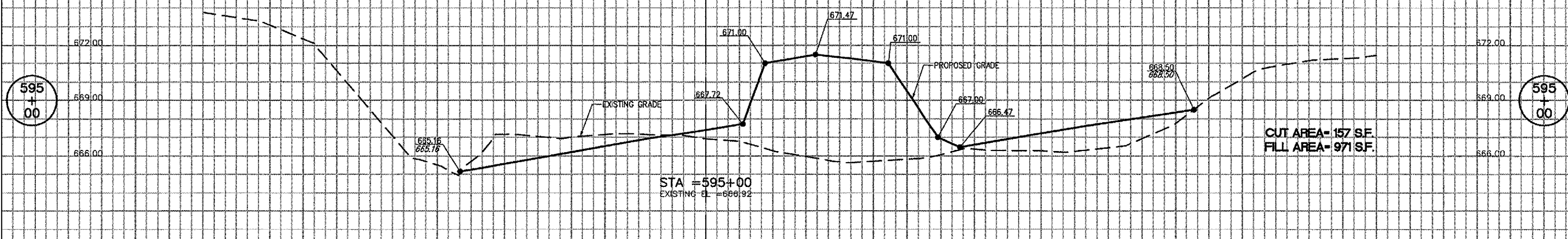
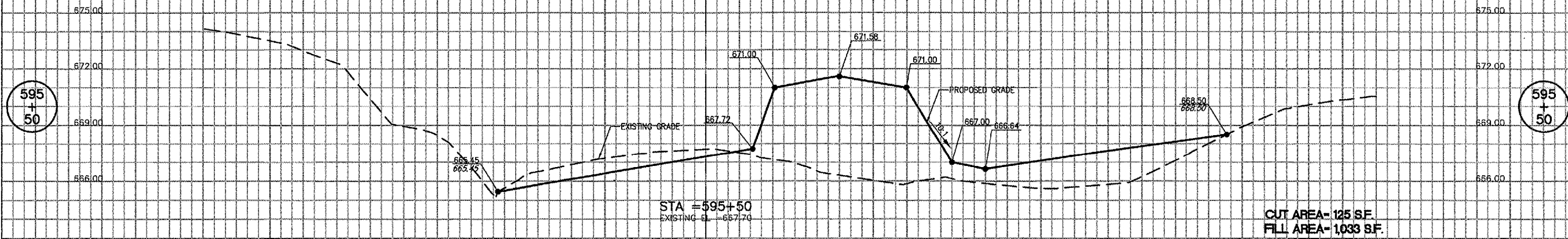
**HANSON PROFESSIONAL SERVICES INC.**  
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**SOUTHWEST CORPORATE AREA,  
 GRADING AND DRAINAGE, PHASE 1**

**AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498**



600.00 570.00 540.00 510.00 480.00 450.00 420.00 390.00 360.00 330.00 300.00 270.00 240.00 210.00 180.00 150.00 120.00 90.00 60.00 30.00 0 30.00 60.00 90.00 120.00 150.00 180.00 210.00 240.00 270.00 300.00 330.00 360.00 390.00 420.00 450.00 480.00 510.00 540.00 570.00 600.00 630.00 660.00 690.00 720.00 750.00

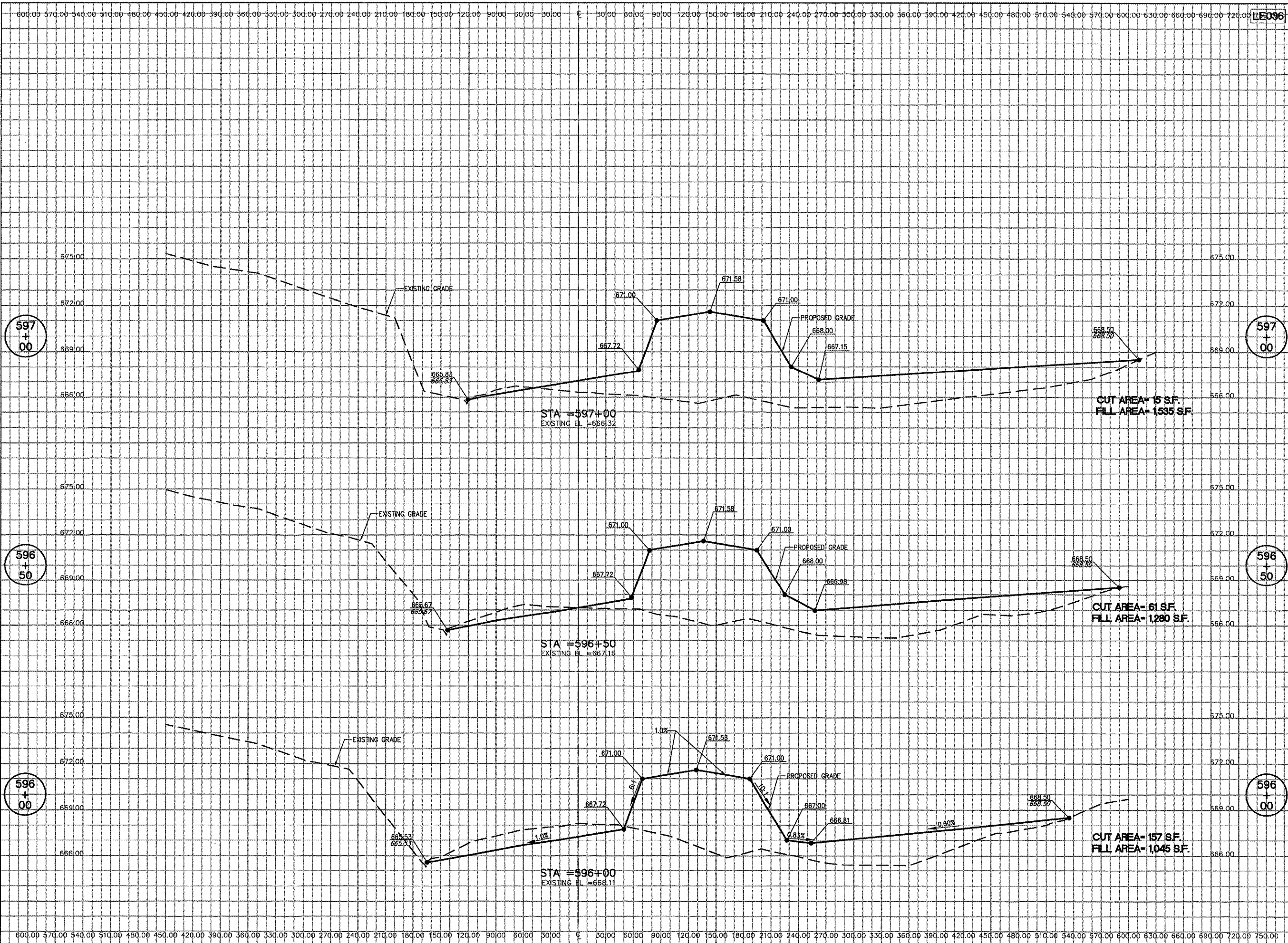
No.	Drawing Issue Description	Date	By

Date MAY 6, 2005

Sheet Title  
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840-0408042  
 Project Number  
 SJM 04/20/05  
 Layout By Date  
 SJM 04/20/05  
 Designed By Date  
 RMH/TMM 04/22/05  
 Reviewed By Date  
 SJM  
 Drawn By Sheet No.





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 GRADING AND DRAINAGE, PHASE 1**

**AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498**

No.	Drawing Issue Description	Date	By

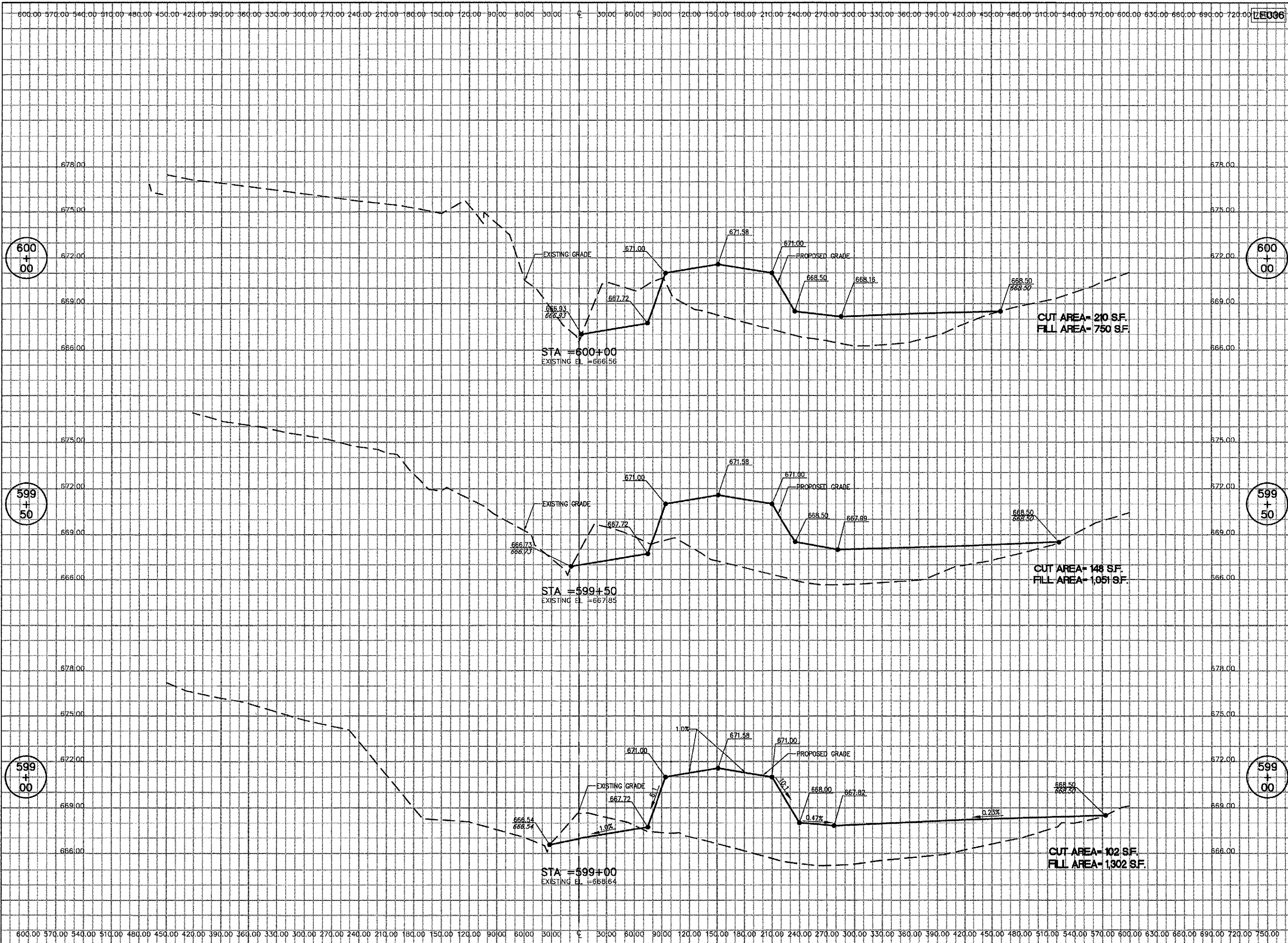
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 STA 597+00**

840-04D8042  
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 SJM 04/20/05  
 Layout By Date  
 SJM 04/20/05  
 Designed By Date  
 RMH/TMM 04/22/05  
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SOUTHWEST CORPORATE AREA,  
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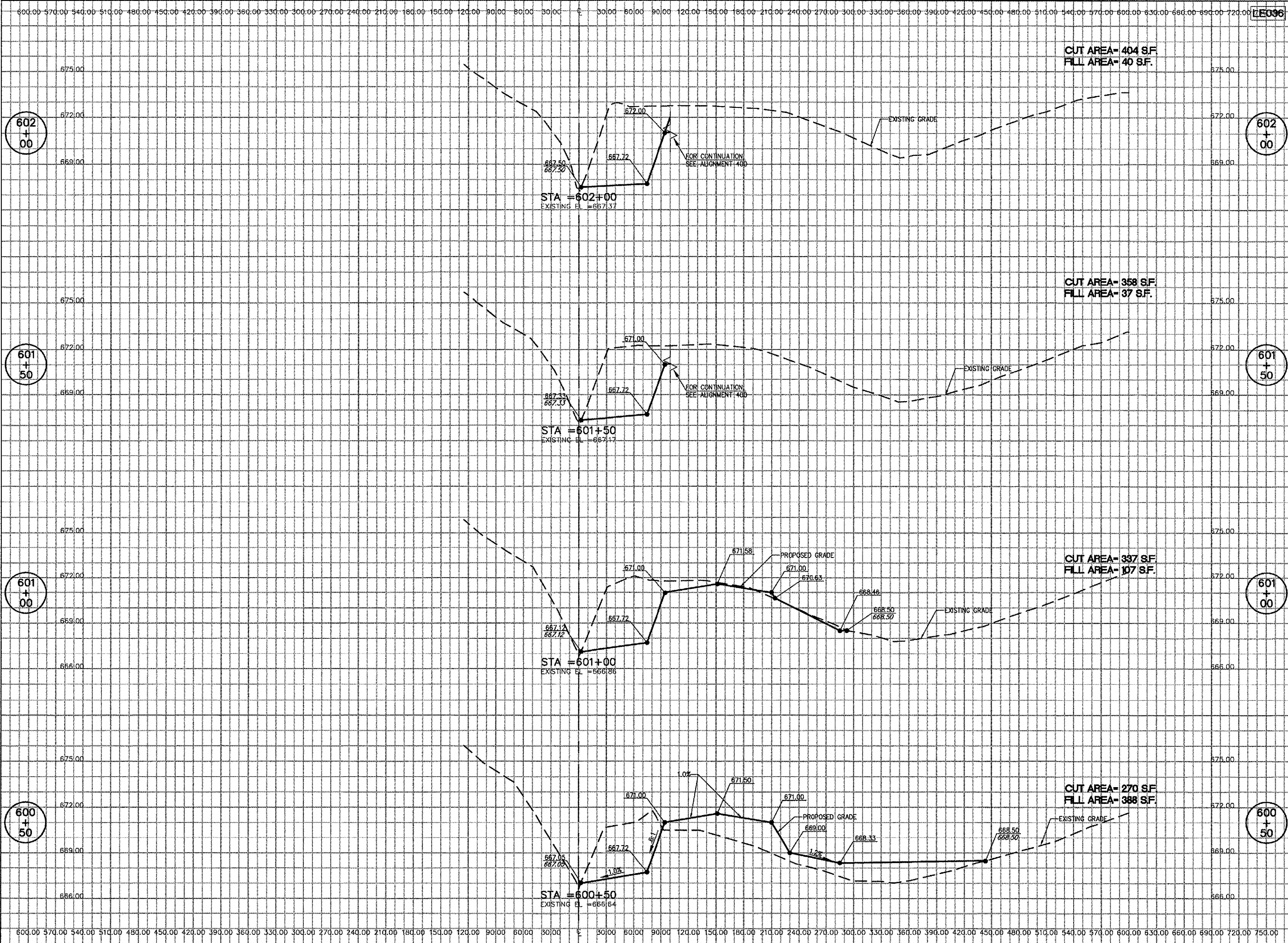
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 IDA PROJECT NO. LOT-3498

No.	Drawing Issue Description	Date	By

Date  
 MAY 6, 2005

Sheet Title  
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 ALIGNMENT 600  
 STA 599+00 TO  
 STA 600+00**

840-04D8042  
 Project Number  
 SJM 04/20/05  
 Layout By Date  
 SJM 04/20/05  
 Designed By Date  
 RMH/TMM 04/20/05  
 Reviewed By Date  
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 GRADING AND DRAINAGE, PHASE 1**

**AIP PROJECT NO. 3-17-0140-B39  
 IDA PROJECT NO. LOT-3498**

No.	Drawing Issue Description	Date	By

Date: MAY 6, 2005

Sheet Title: **CROSS SECTIONS  
 ALIGNMENT 600  
 STA 600+50 TO  
 STA 602+00**

840-04D8042  
 Project Number  
 S.J.M. 04/19/05  
 Layout By Date  
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 Designed By Date  
 RMH/TMM 04/22/05  
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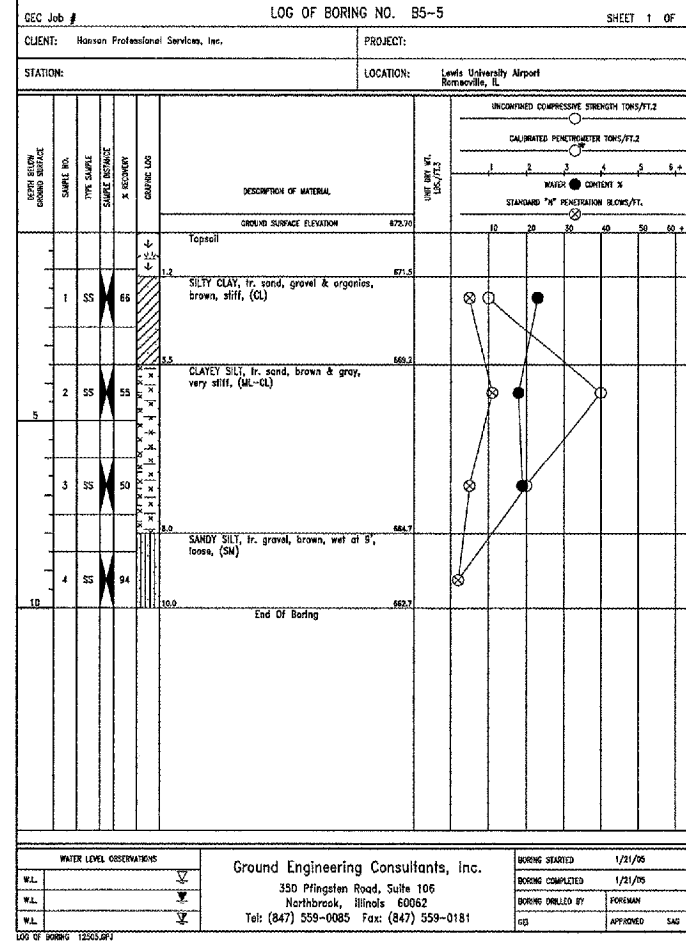
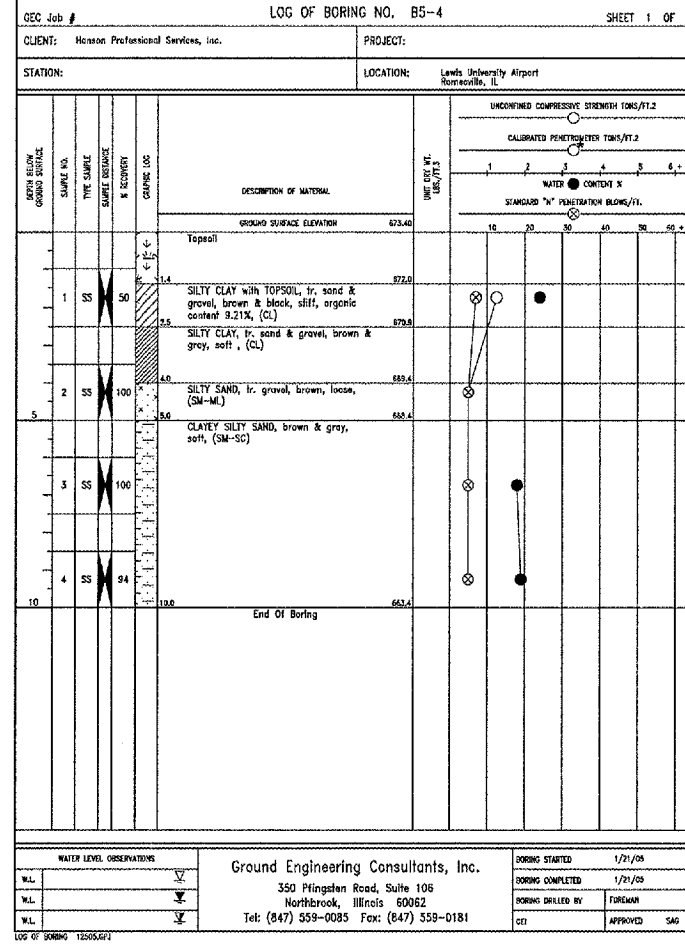
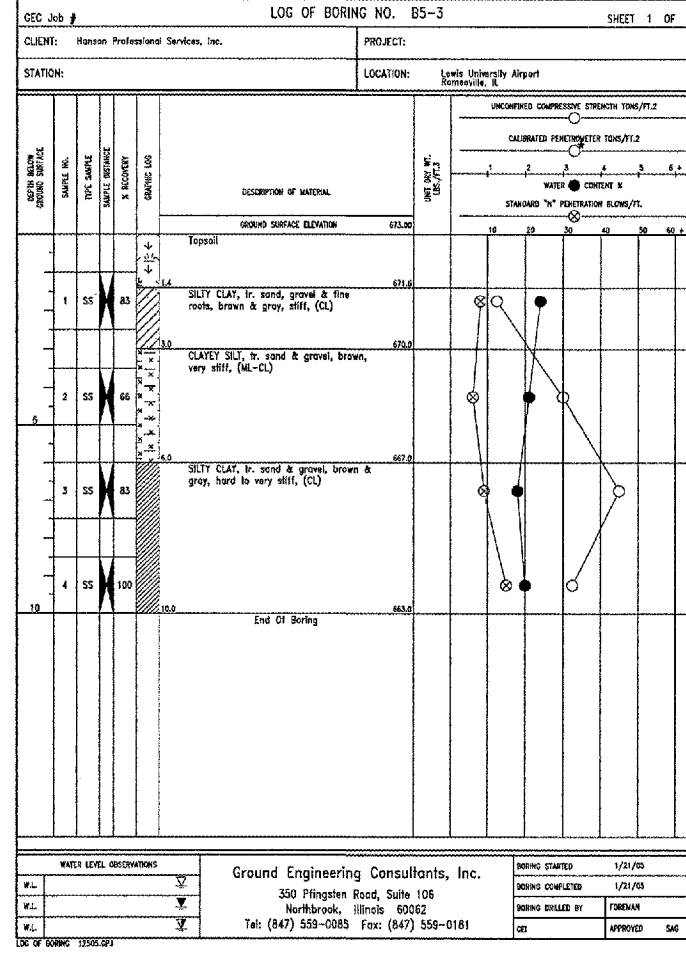
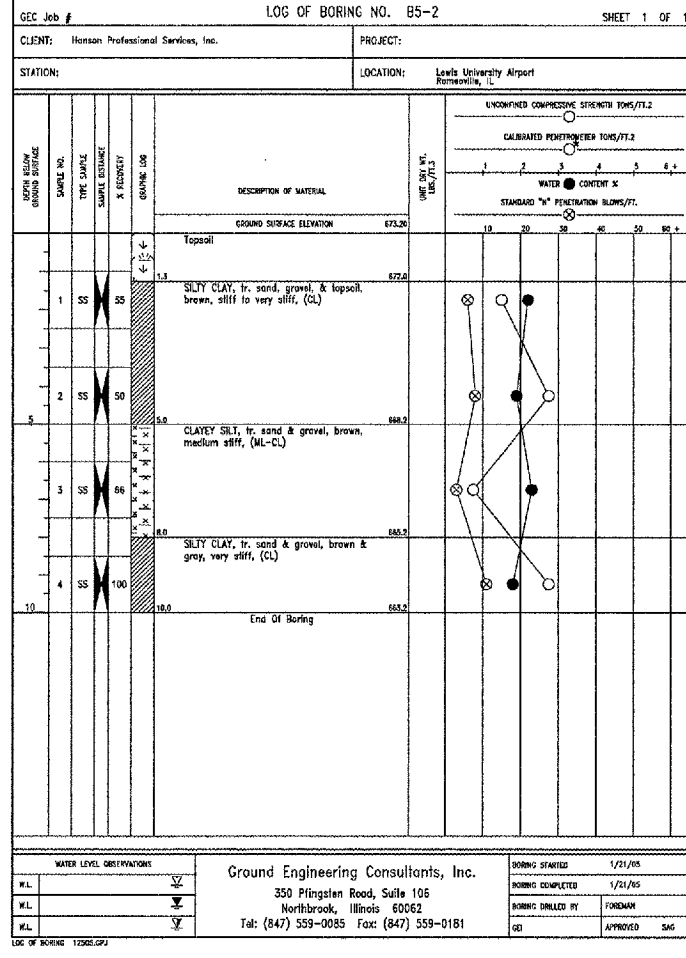
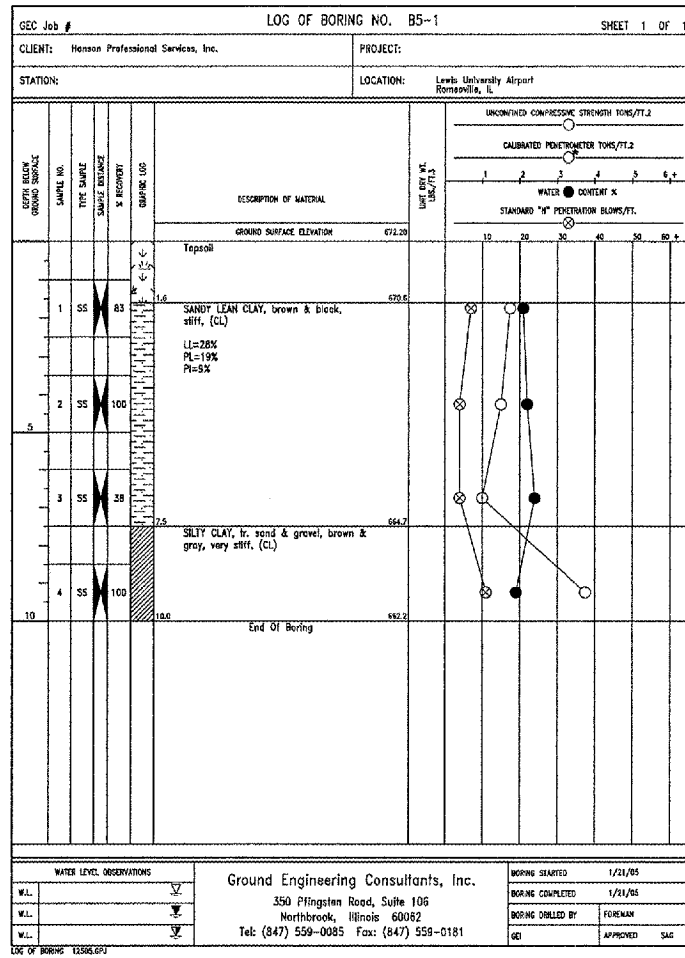












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AIP PROJECT NO. 3-17-0140-B39  
IDA PROJECT NO. LOT-3498

No.	Drawing Issue Description	Date	By

Date: MAY 6, 2005  
Sheet Title:

BORING LOGS  
B5-1 THRU B5-5

840-04D8042  
Project Number  
SJM 04/06/05  
Layout By Date  
SJM 04/06/05  
Designed By Date  
RMH/TMM 04/22/05  
Reviewed By Date  
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Drawn By Sheet No.

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