

Arboretum project - Mt. Pleasant, Michigan

I. Project general notes - kept current from material discussed in meetings

A. Those involved

1. By name

- a) Advanced Building Systems (providing shell framing, shingles, windows, doors, interior trim, cabinets, hardware, siding) (06, 07, 08)
 - (1) Mark Massingill - sales representative
- b) Advanced Building Systems - Framing contractor (06, 07, 08)
- c) Carpet contractor (09)
- d) Carpet supplier (09) - to be selected
- e) CDI Inc. - Insulating contractor & acoustical treatment (07, 09)
 - (1) Jim Lynch - Principal
- f) CDI Inc. - Gypcrete floor fill (03)
 - (1) Jim Lynch - Principal
- g) Central Asphalt - asphalt paving (02)
 - (1) John McClain - Principal
- h) Closet and storage shelving (10)
- i) Fire protection (15)
- j) Francon, Inc. - Concrete contractor (03, 07)
 - (1) Bill Fransted - Principal
- k) J & R Builders - Finish carpentry contractor(06, 08, 11)
 - (1) Roger Therman - Principal
 - (2) Jim Therman - Principal
- l) Keif's Roofing - Roofing contractor (07)
 - (1) Jerry Keif - Principal
- m) Keif's Roofing Siding contractor - installation (07)
 - (1) Jerry Keif - Principal
- n) Landscaping contractor (02) - by Owner
- o) Leaser Electric - Electrical contractor (11, 16)
 - (1) Bill Leaser - Principal
- p) Maloney Architectural Services - Design firm
 - (1) Dennis Maloney - principal
- q) McGuirk Sand and Gravel - Site work contractor (02)
 - (1) Chuck McGuirk - Principal
- r) Mechanical contractor - combined hvac, plumbing, sprinklers (15)
- s) Michigan Micro Tech - Cable TV (16)
 - (1) Henry Block - owner
- t) Mid Michigan Engineering - Field engineer
 - (1) Mike ? - engineer
- u) Mirrors (08)
- v) Mission Lumber - miscellaneous fasteners and connections (05)
- w) Plumbing contractor - same as mechanical (10, 15)
- x) R & C Associates - Site planners
 - (1) ??
- y) R & R Drywalling - Dry wall contractor (09)
 - (1) Jack Ridenhour - Principal
- z) R & R Drywalling - Painting contractor (09)
 - (1) Jack Ridenhour - Principal
- aa) Shirley Bragg - Window coverings & treatments (12)
 - (1) Shirley Bragg - Principal
- ab) Structural steel and metal deck (for parking shelters) (05)
- ac) Riverwood Development
 - (1) Richard Figg - owner & developer

- ad) Welsh Masonry - Masonry contractor (04)
 - (1) Tim ? - Principal
 - 2. By spec section
 - a) Section 01
 - b) Section 02
 - (1) Landscaping contractor (02) - by Owner
 - (2) McGuirok Sand and Gravel - Site work contractor (02)
 - (a) Chuck McGuirok - Principal
 - c) Section 03
 - d) Section 04
 - e) Section 05
 - f) Section 06
 - g) Section 07
 - h) Section 08
 - i) Section 09
 - j) Section 10
 - k) Section 11
 - l) Section 12
 - m) Section 13
 - n) Section 14
 - o) Section 15
 - p) Section 16
- B. Trades and firms removed from list of those involved as of 04/27/96**
- 1. Ceramic tile contractor (09) - removed 04/27/96
 - 2. Fire place contractor (10)
 - 3. Three Rivers construction
 - a) Bob Crevic - project manager

C. Project characteristics

- 1. Site area ±50 acres
- 2. Number of buildings - 8
 - a) Community Center - 1 building - might be future
 - b) Type 1 buildings - 3 buildings
 - (1) 4 A units - one bedrooms
 - (2) 4 B units - two bedrooms
 - c) Type 2 buildings - 4 buildings
 - (1) 8 B units - two bedrooms
 - (2) 8 C units - three bedrooms
 - d) Type 3 buildings - 1 building
 - (1) 8 A units - one bedroom
 - (2) 8 B units - two bedrooms
- 3. All two story buildings

II. Date of meeting - 1:59:54 PM - Wednesday, February 21, 1996

A. Location of meeting - rjs office

B. Those attending

- 1. Roger Therman - project manager
- 2. Ralph J. Stephenson - consultant

C. Those involved

- 1. U. S. Marble - Synthetic marble sills and bath counter tops (04 or 09?)
 - a) John Collins - sales representative
- 2. Sears - Appliances (11)
- 3. Advanced Building Systems
 - a) Mark Massingill - sales representative
- 4. Cable TV (16)

5. Carpet contractor (09)
 6. Ceramic tile contractor (09)
 7. Concrete contractor (03)
 8. Design team
 9. Dry wall contractor (09)
 10. Electrical contractor (16)
 11. Field engineer
 12. Finish carpentry contractor(08, 10)
 13. Fire place contractor (10)
 14. Framing contractor (06, 08)
 15. Insulating contractor (07)
 16. J & R Builders
 - a) Roger Therman - principle
 - b) Jim Therman - principal
 17. Landscaping contractor (02)
 18. Masonry contractor (04)
 19. Mechanical contractor (15)
 20. Painting contractor (09)
 21. Plumbing contractor (15)
 22. Riverwood Development
 - a) Richard Figg - owner & developer
 23. Roofing contractor (07)
 24. Siding contractor (06)
 25. Site work contractor (02)
 26. Three Rivers construction
 - a) Bob Crevic - project manager
 27. To be continued
- D. Project characteristics**
1. Site area ±50 acres
 2. Number of buildings - 8
 - a) Community Center - 1 building - might be future
 - b) Type 1 buildings - 3 buildings
 - (1) 4 A units - one bedrooms
 - (2) 4 B units - two bedrooms
 - c) Type 2 buildings - 4 buildings
 - (1) 8 B units - two bedrooms
 - (2) 8 C units - three bedrooms
 - d) Type 3 buildings - 1 building
 - (1) 8 A units - one bedroom
 - (2) 8 B units - two bedrooms
 3. All two story buildings
- III. Date of meeting - February 28, 1996 - no notes recorded**
- IV. Date of meeting - Saturday, April 27, 1996**
- A. Location of meeting - rjs office**
- B. Those attending**
1. Roger Therman - project manager
 2. Ralph J. Stephenson - consultant
- C. Agenda**
1. Review current status of project
 2. Complete prepare detailed network model
 - a) Prepare plan and schedule for each building
 - (1) Network model

- (2) Bar chart
- (3) Data run by early start
3. Complete prepare summary network model - management summary
4. Prepare critical procurement item schedule
5. Bring the "those involved" file up to date

9/27/82
 24
 960
 44
 504

9/27/82
 Add marsh - to track utility
 appraisers
 Counter tops

$$X = i + d + t(n-1)$$

$$= 388 + 47 + 4(13-1)$$

~~388~~
~~47~~
 48

4880

For Total to cycle
 $X = 388 + 47 + 7(n-1)$

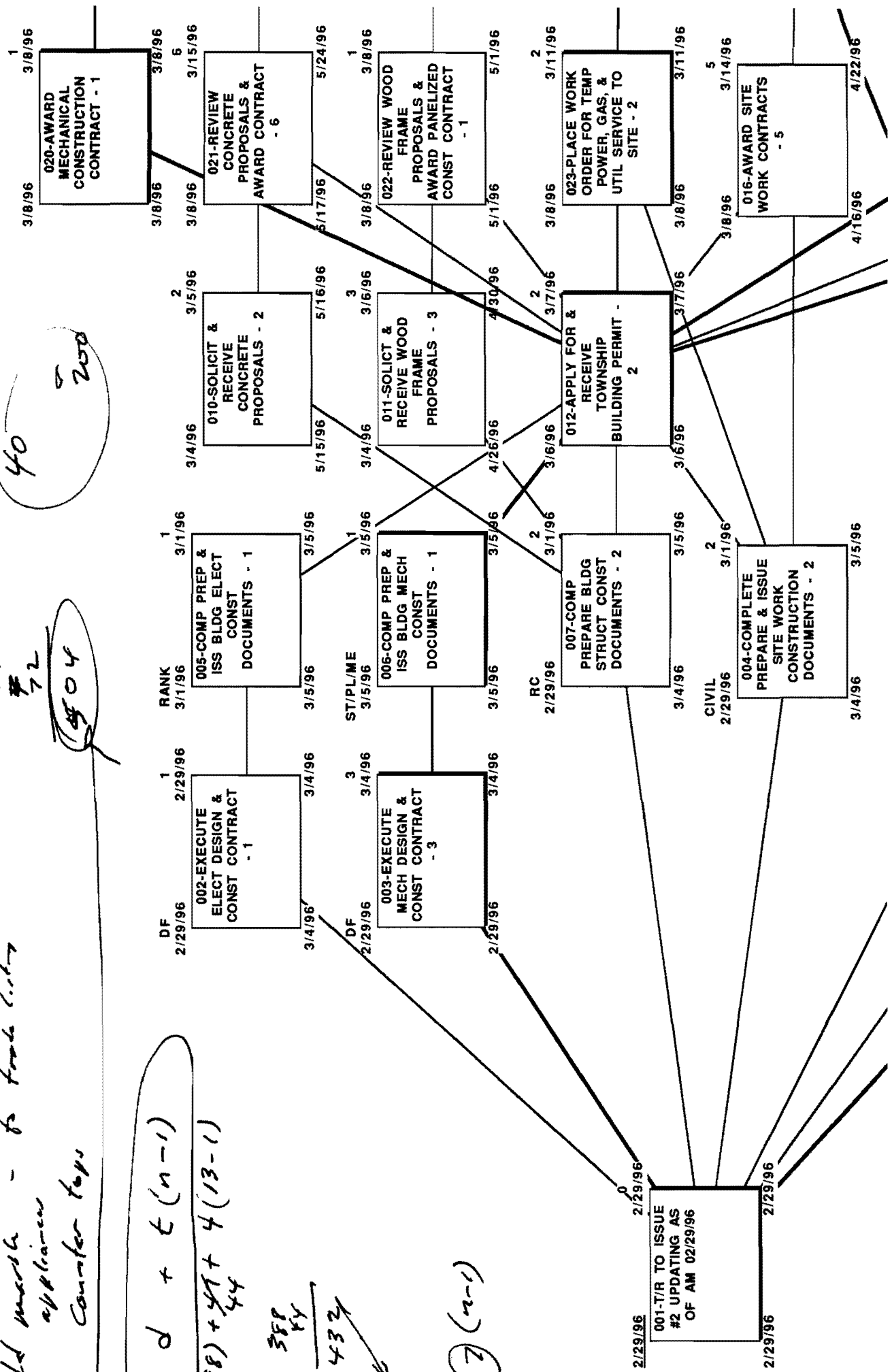
47
 435
 84
 529

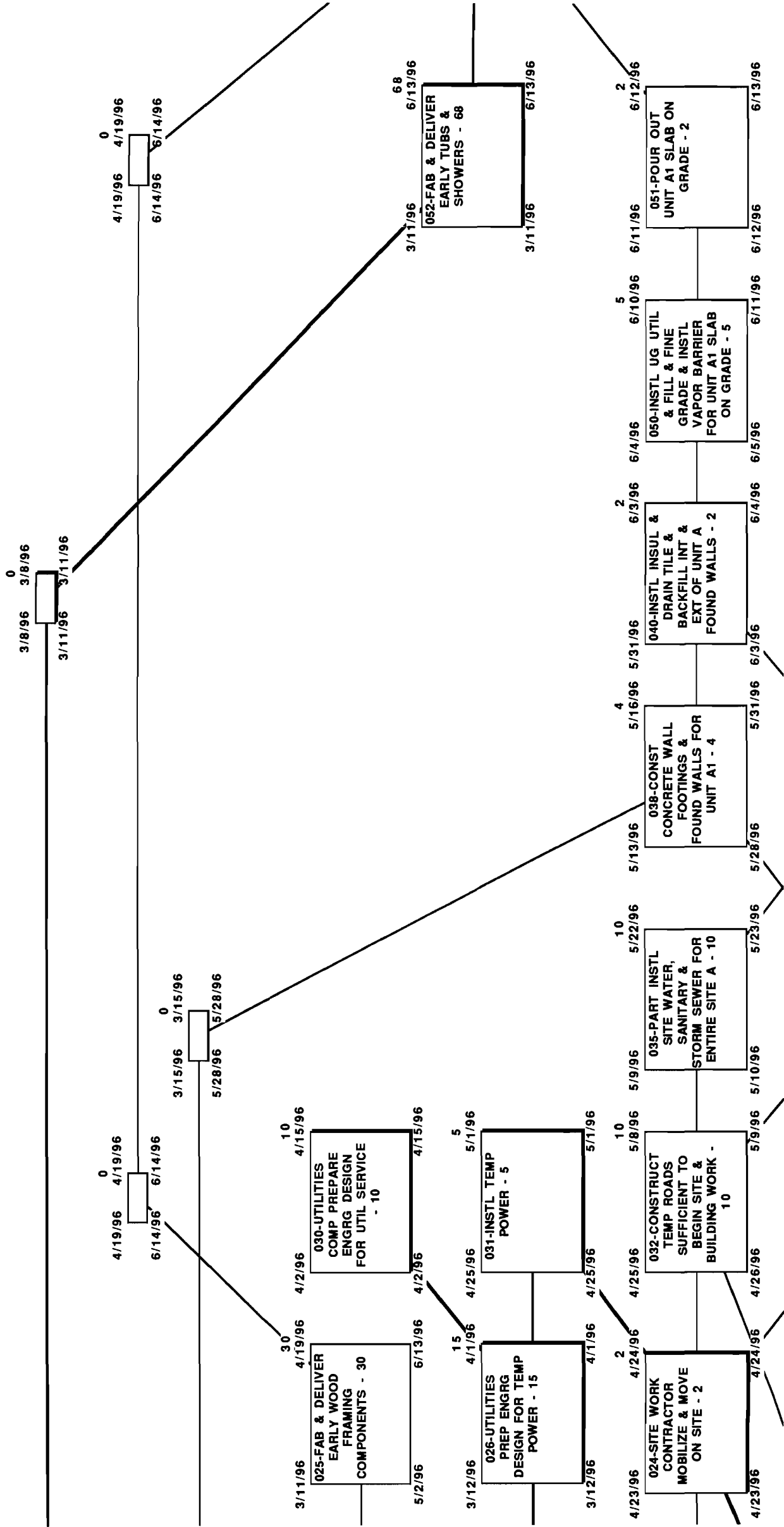
388
 44
 432
 120
 552

432
 48
 480

25 GC
 40
 200

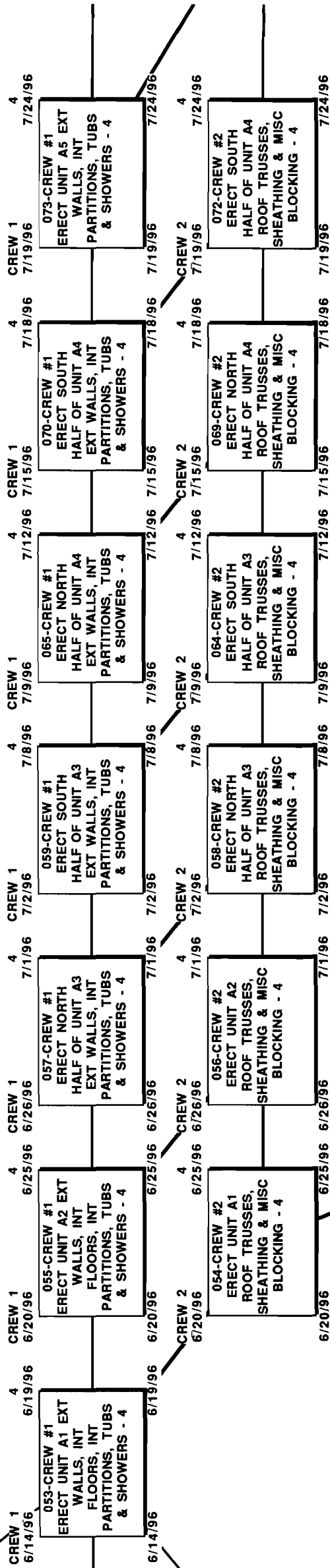
504

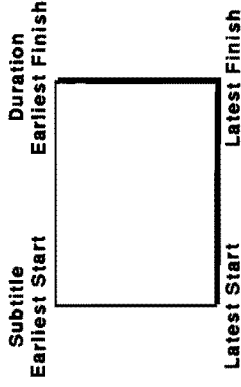




Note: Panelized wall components include:

- Wall studs
- Trusses
- Sheathing
- Doors - w/o hardware
- Windows - preglazed
- Interior walls
- Labor excluding shingle labor
- Rough floor system



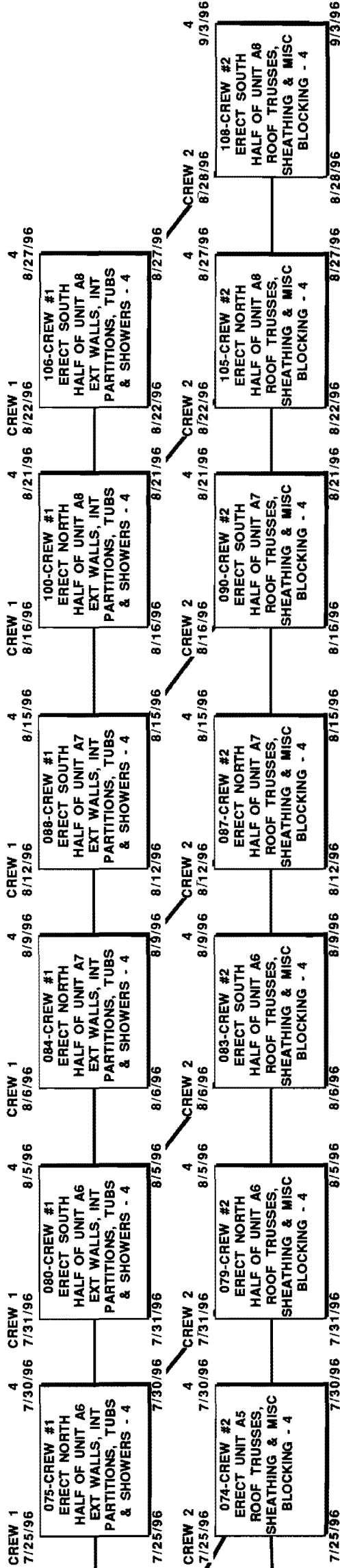


Reserved Activity Numbers

041	046	091	096
042	047	092	097
043	048	093	098
044	049	094	099
045		095	

LAN 001
HAN ?

ACTIVITY KEY



**SITE WORK FOR AREA A
& BUILDING A1**

**NETWORK MODEL FOR THE
ABORETUM - Mt. Pleasant,
Michigan**

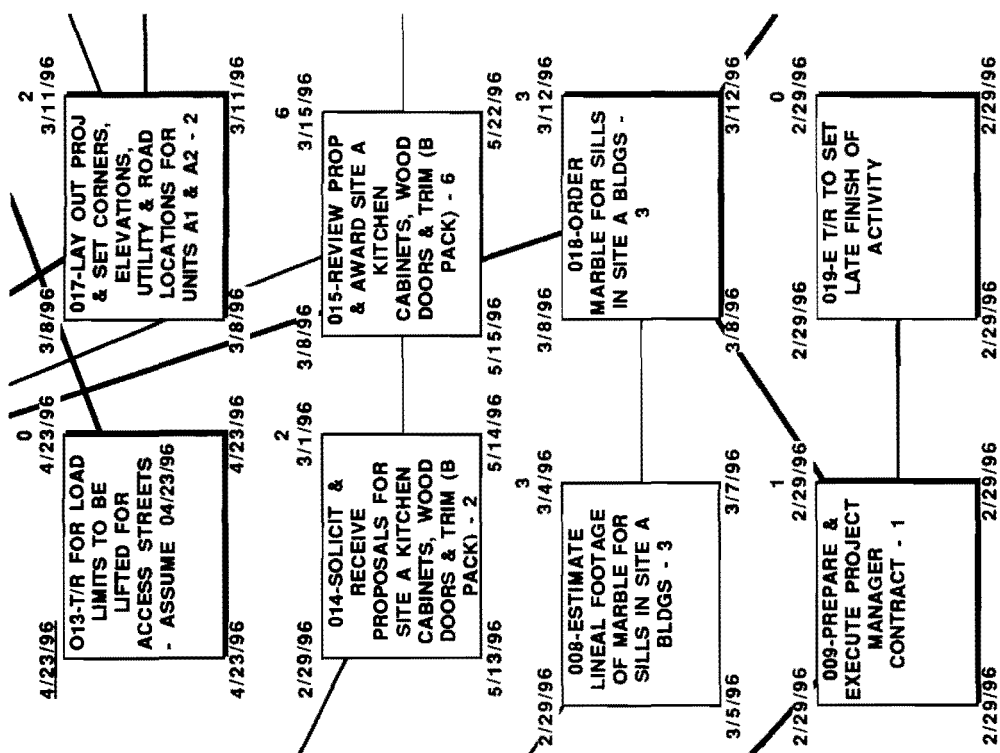
**Riverwood Development
Mt. Pleasant, Michigan**

Issue #1 - February 21, 1996
Issue #2 - February 28, 1996
i2 sht A1 aboretum

Richard Figg - General Manager
Roger Therman - Project Manager

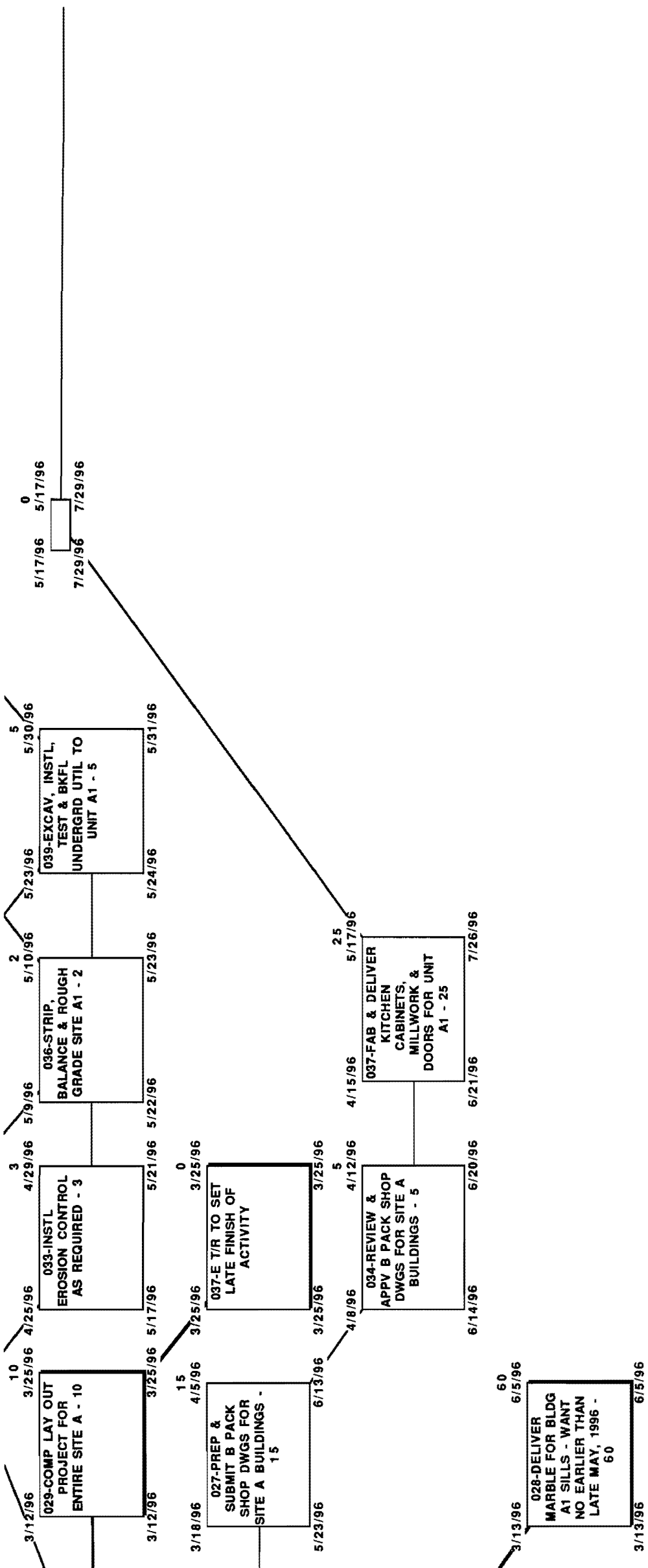
Ralph J. Stephenson, P.E., P.C.
Consulting Engineer
323 Hiawatha Drive
Mt. Pleasant, Michigan, 48858
ph 517 772 2537

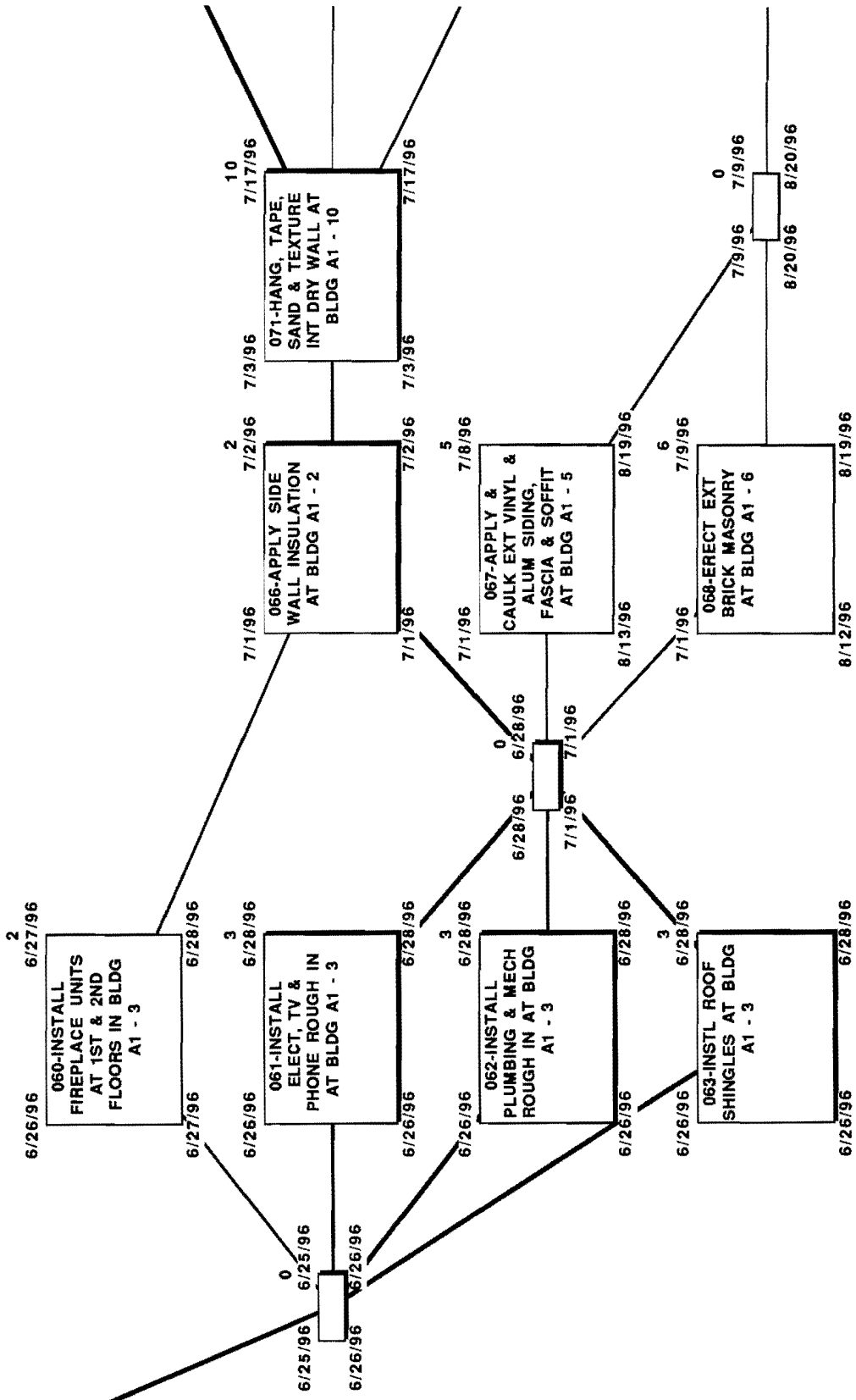
**SHEET
A1**

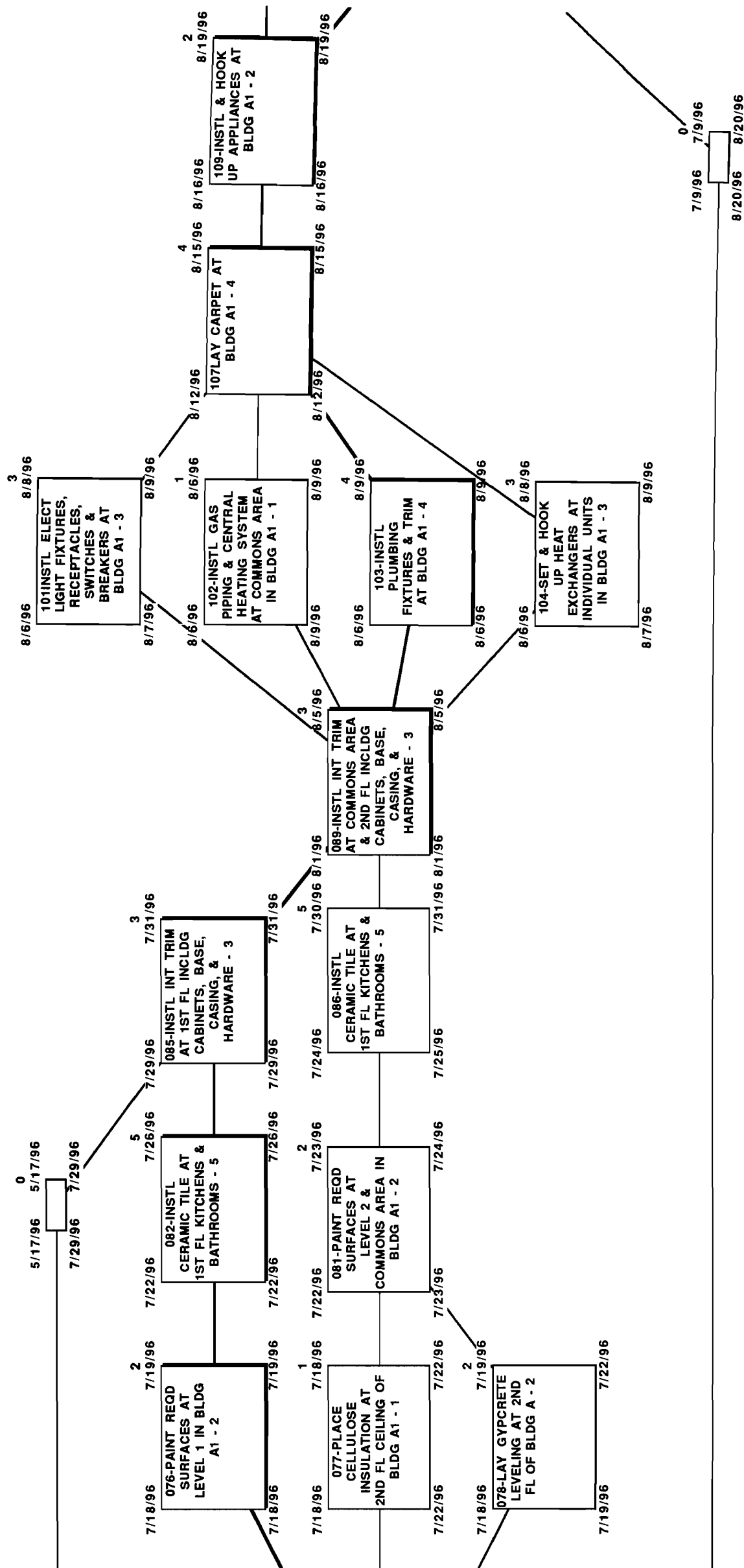


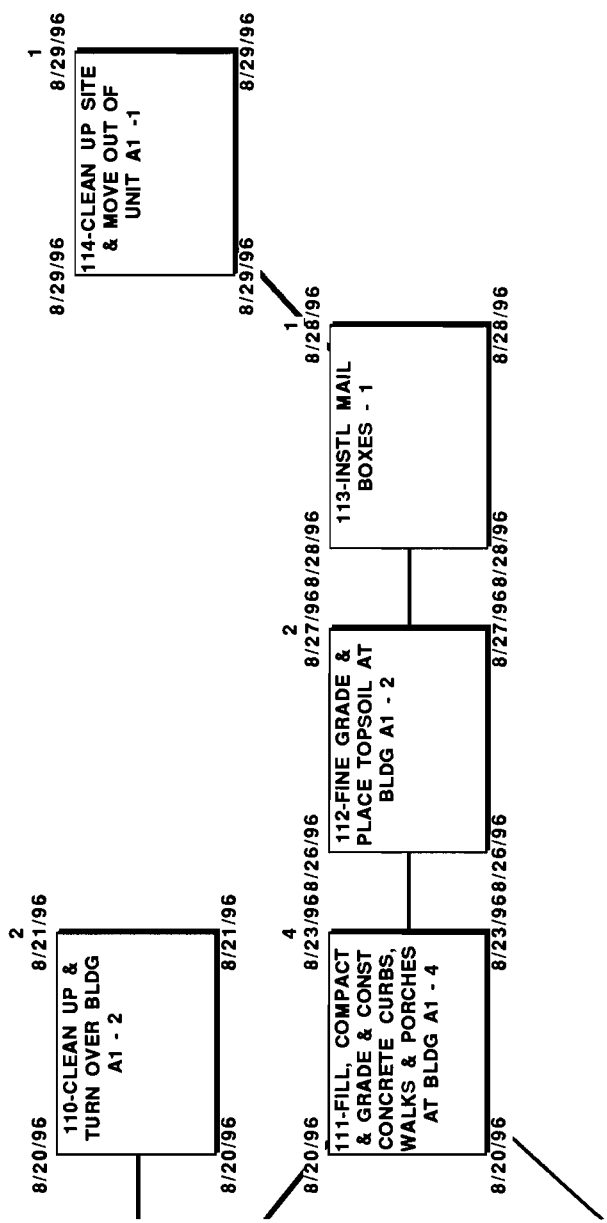
ITEMS TO BE ADDRESSED:

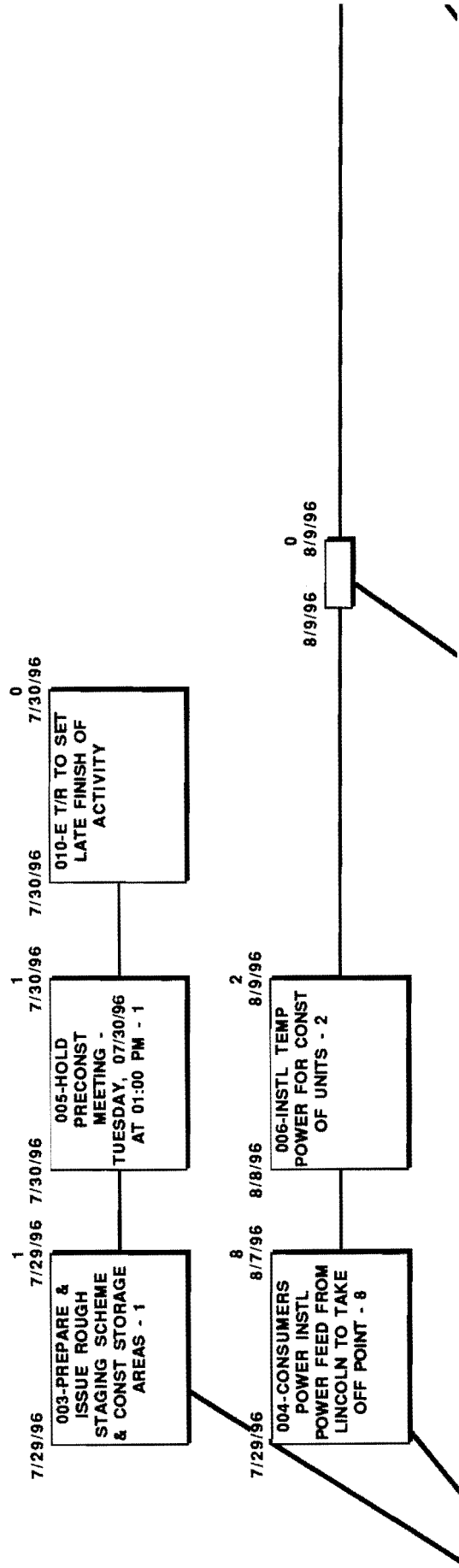
- WHO MUST HOLD GENERAL CONTRACTOR LICENSE?
- WHO IS RESPONSIBLE FOR PROJECT WARRANTY?
- WHO TAKES OUT INSURANCE ON THE PROJECT?
- WHO IS RESPONSIBLE FOR SAFETY ON THE PROJECT?
- WHAT ORGANIZATIONAL SYSTEM CAN EQUITABLY DISTRIBUTE LIABILITY?









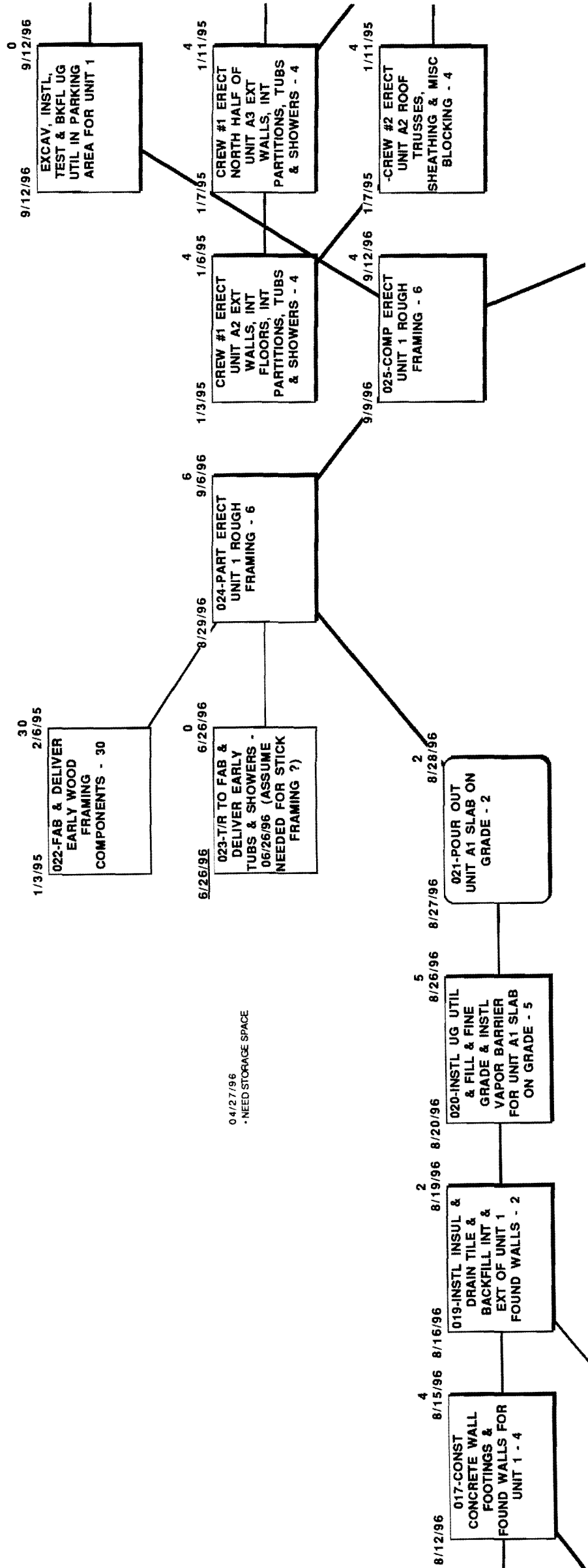


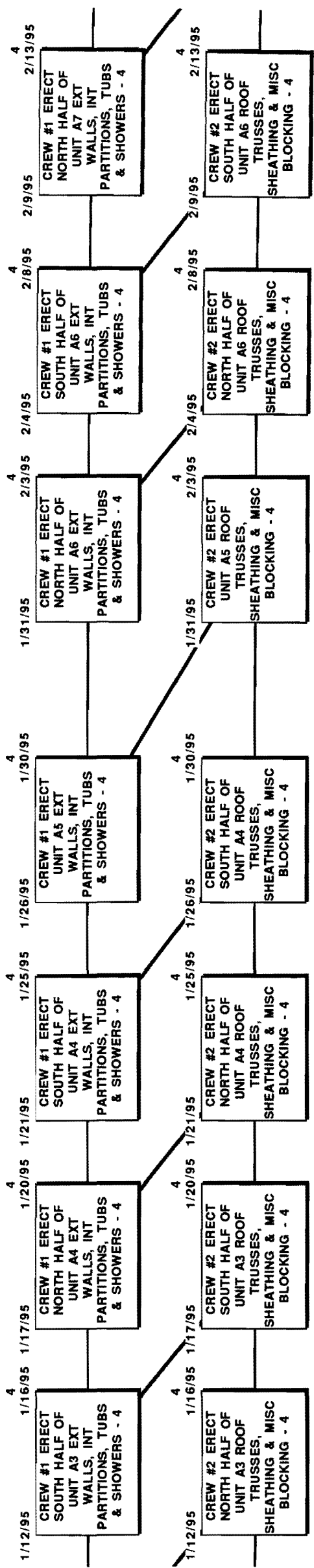
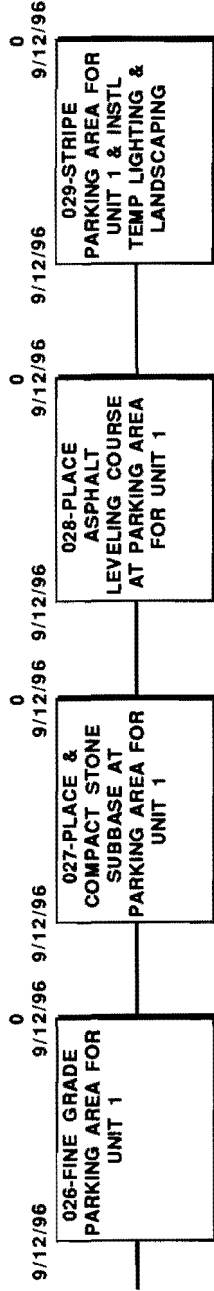
Note: Stick framing components furnished & installed with rough framing include:

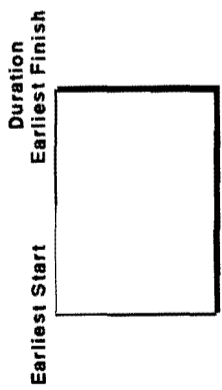
- Interior & exterior wall studs
- Trusses
- Sheathing
- Doors
- Hardware
- Preglazed windows
- Shingles
- Vinyl siding
- Floor system

Items that may be furnished by framing contractors but installed later to avoid damage include:

- Sliding glass doors
- Hardware
- Cupboards
- Counter tops
- Vanities & vanity tops







SITE WORK FOR AREA A & BUILDING A1

NETWORK MODEL FOR THE ABORETUM - Mt. Pleasant, Michigan

Riverwood Development
Mt. Pleasant, Michigan

Richard Figg - General Manager

Ralph J. Stephenson, P.E., P.C.
Consulting Engineer
323 Hiawatha Drive
Mt. Pleasant, Michigan, 48858
ph 517 772 2537

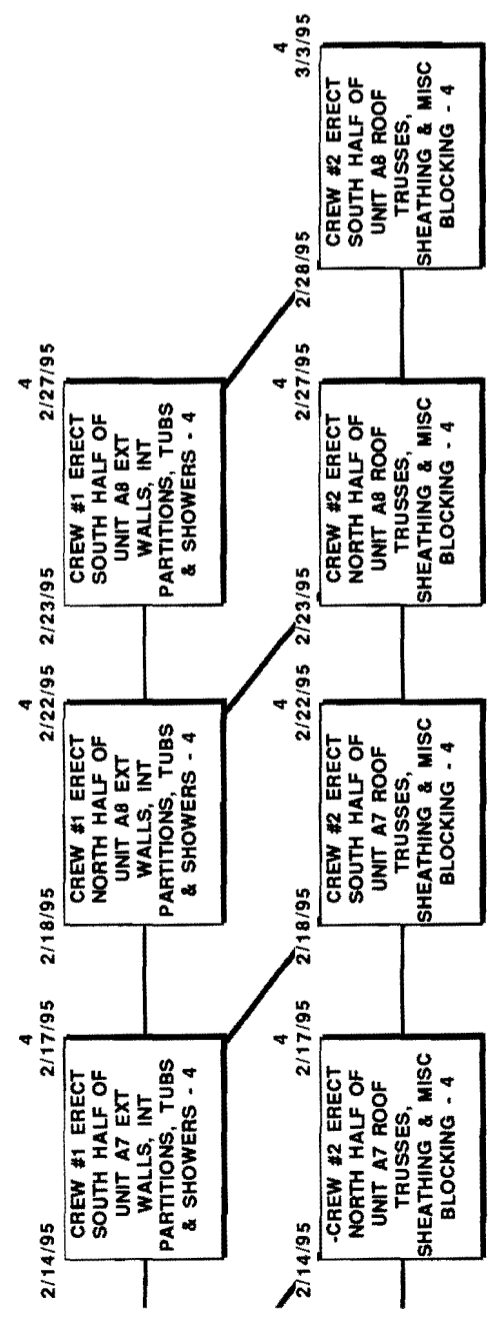
SHEET A1

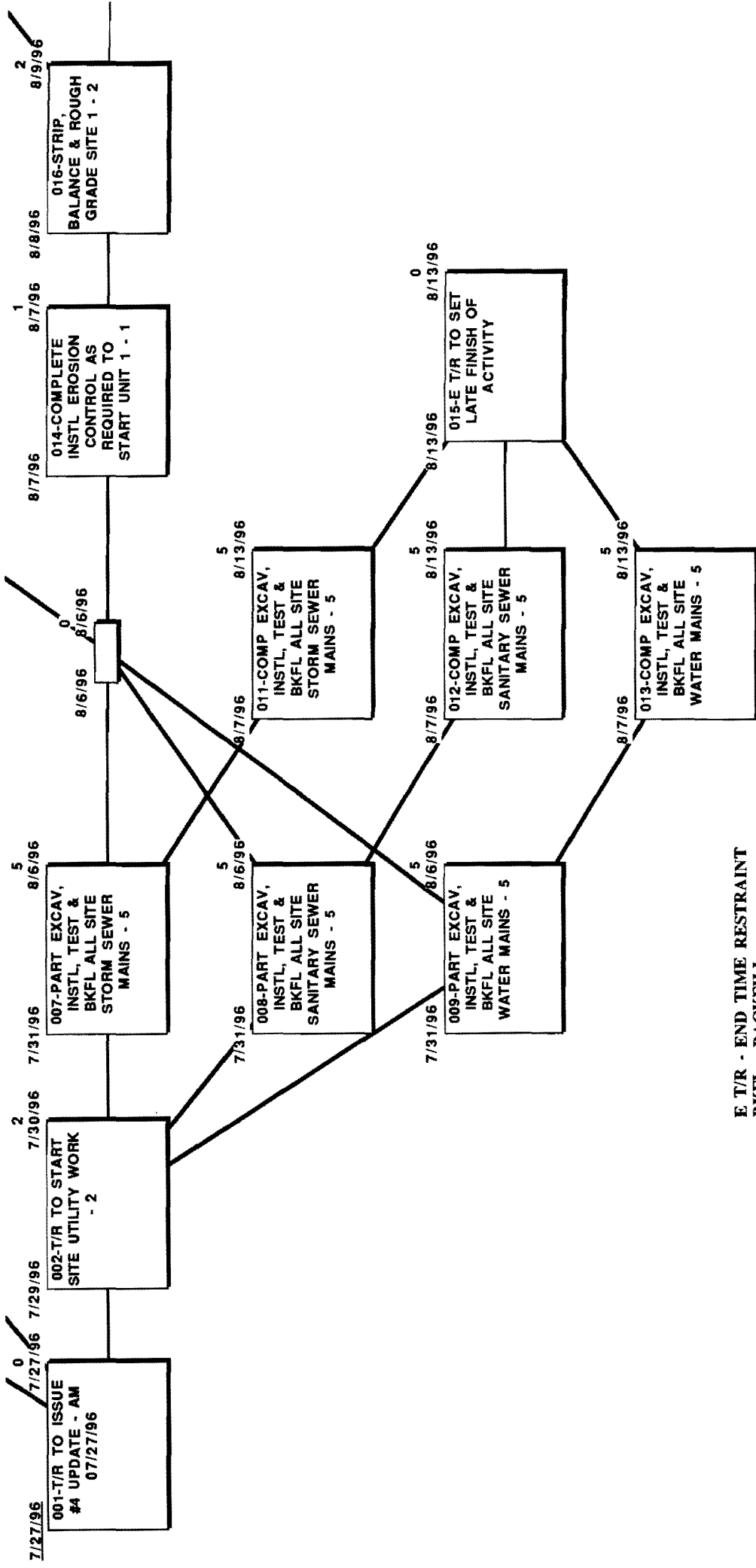
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045		095	

LAN 001
HAN ?

Issue #1 - February 21, 1996
Issue #2 - February 28, 1996
Issue #3 - April 27, 1996
Issue #3 - July 27, 1996 mtr
Issue #4 - July 27, 1996
i4 sht A1 aboretum monitored





E/T/R - END TIME RESTRAINT
 BKFL - BACKFILL
 COMP - COMPLETE
 EXCAV - EXCAVATE
 TEMP - TEMPORARY

8/12/96 2 8/13/96

018-EXCAV, INSTL,
TEST & BKFL
UNDERGRD UTIL TO
SITE 1 - 2

