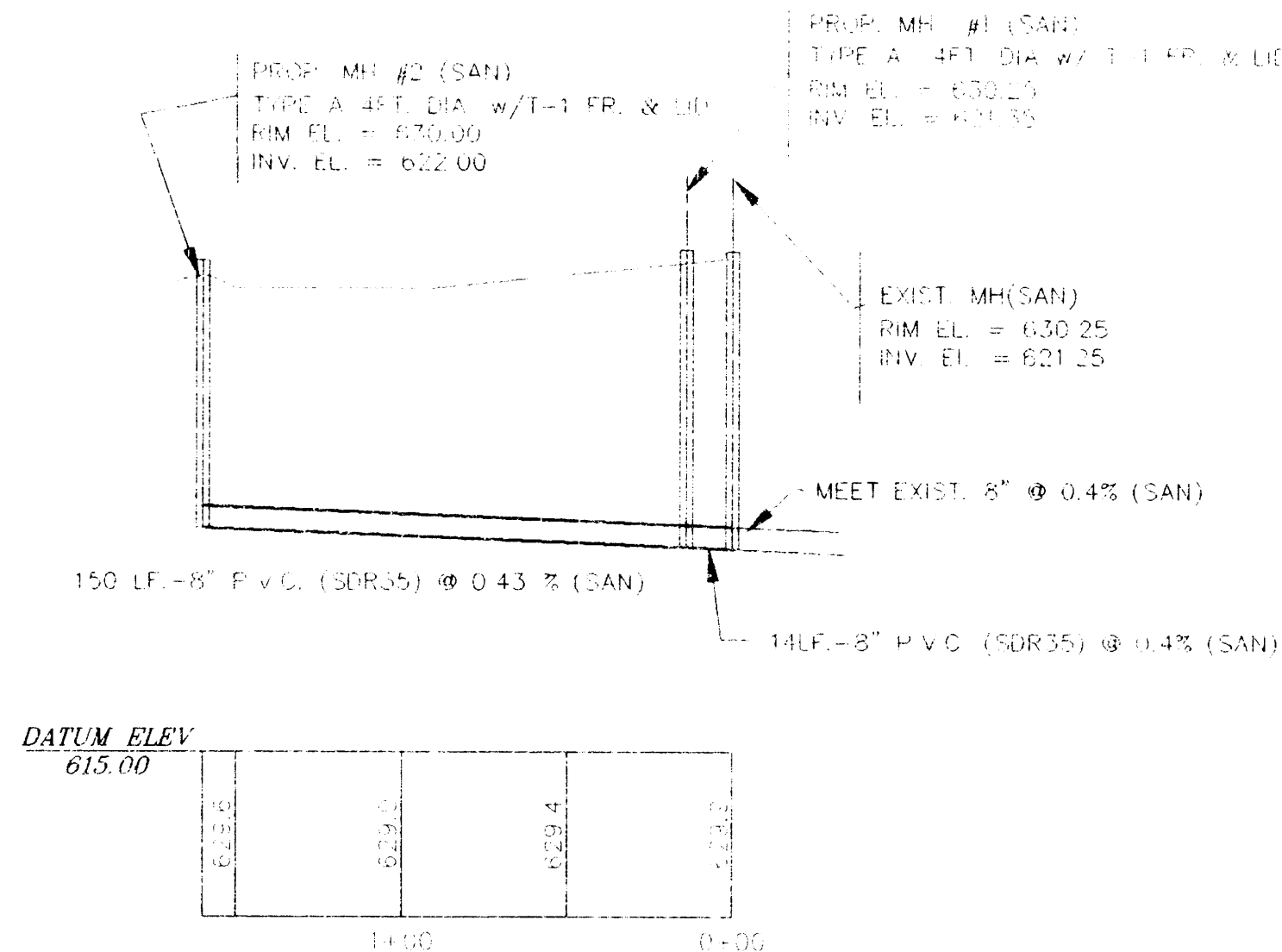
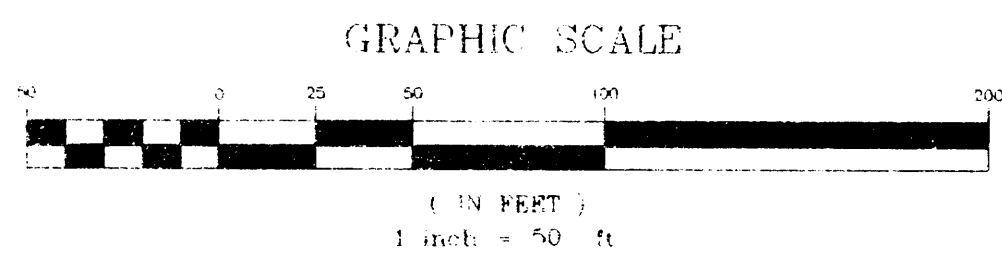
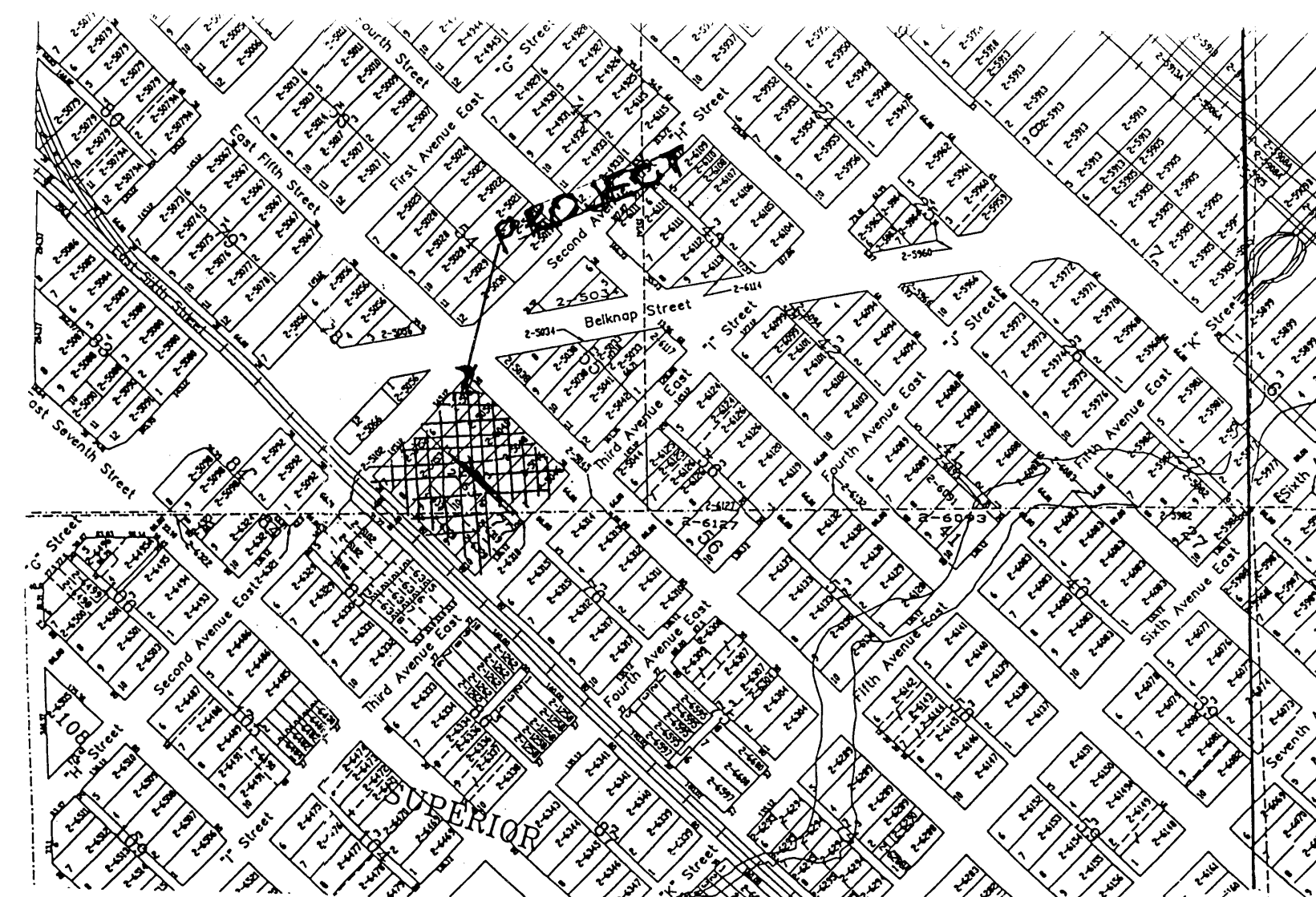
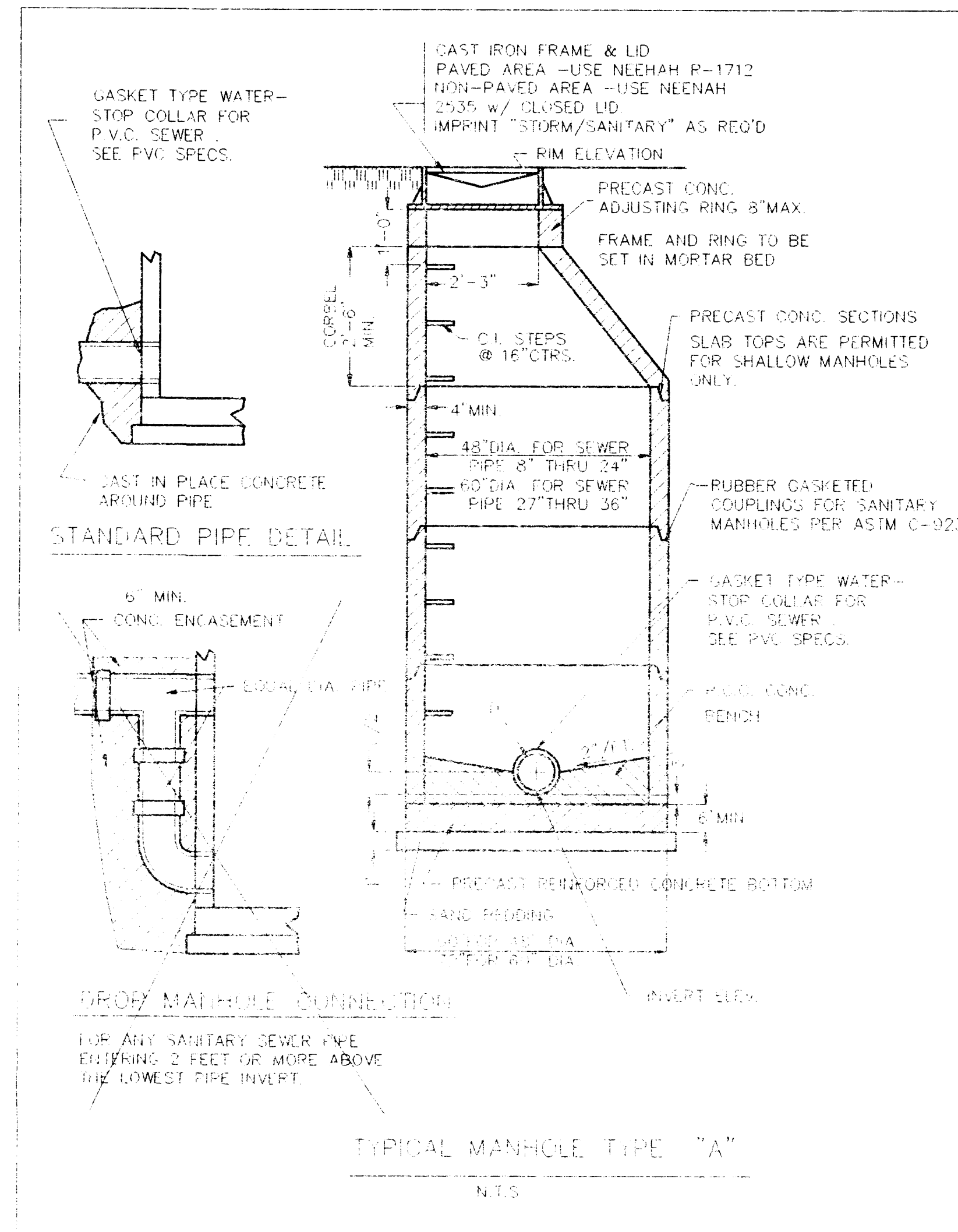


*First Delimited*



PROFILE  
1" = 50' HOR  
1" = 5' VERT



LOCATION MAP

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WISDOT AND STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN WISCONSIN, 5TH EDITION, WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK AND APPLICABLE SUPERIOR, WI. ORDINANCES.
- BENCH MARK ELEVATIONS ARE TOP OF MANHOLE FRAMES.
- 830.0 T.C. INDICATES TOP OF CURB ELEVATION  
830.0 G.H. INDICATES ELEVATION OF FINISHED FRAME  
830.0 G.H. INDICATES ELEVATION OF GROUND @ PROPOSED HYDRANT LOCATION.
- PAY ITEM - BITUMINOUS CON. SURFACE CLB - SHALL INCLUDE BITUMINOUS MATERIAL (PRIME) ACCORDING TO THE STANDARD SPECIFICATIONS.
- PAY ITEM - PARKWAY RESTORATION - SHALL INCLUDE TOPSOIL PLACEMENT AND SEEDING ACCORDING TO THE STANDARD SPECIFICATIONS.
- THE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THE PLANS FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UTILITY INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IN ORDER TO HAVE EXISTING UNDERGROUND LOCATIONS STAKED PRIOR TO CONSTRUCTION.

SANITARY SEWER CONSTRUCTION

- ALL FLUVE CHAMBERS, DISCHARGE TO THE SANITARY SEWER.
- ALL SANITARY SEWER AND SEWER PIPE JOINTS SHALL CONFORM TO: P.V.C. SEWER GASKET 4-0-3012 SOLVENT 4-0-3555 (OR 35 ASTM D2031)
- MINIMUM BEDDING: FOUR INCHES BELOW PIPE TO SPRING LINE, EXCEPT TOP P.V.C. WHICH SHALL BE FOUR INCHES BELOW PIPE TO TWELVE INCHES ABOVE THE TOP OF THE PIPE. BEDDING SHALL BE OF GRADE #1 SAND.
- MANHOLES SHALL HAVE FOUR INCHES OF STONE BEDDING. THE JOINTS SHALL HAVE 1" H.R. OR SHALL BE PERFORMED BITUMINOUS PLASTIC GASKET WITH INERT MATERIAL FILLER SIMILAR TO RAM-NEK TO PROVIDE A WATERTIGHT SEAL.
- WATER-STOP GASKETS SHALL BE PROVIDED AT ALL SANITARY SEWER MANHOLE CONNECTIONS. SUCH GASKETS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS FOR THE TYPE OF PIPE USED.
- WHEREVER UTILITIES CROSS PAVED AREA, TRENCHES SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL. WHEREVER ONE UTILITY TRENCH CROSSES ANOTHER, THE LOWER TRENCH SHALL IN ALL CASES BE BACKFILLED WITH APPROVED GRANULAR MATERIAL.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
  - CIRCULAR SAW-OUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
  - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
  - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHEREVER A SEWER CROSSES UNDER A WATERMAIN OR STORM SEWER, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 10" FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10" BETWEEN SANITARY SEWERS AND WATERMANS SHALL BE MAINTAINED. UNLESS IT IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE, ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE MAIN, THE SEWER PIPE SHALL BE CAST IRON DUCTILE IRON OR AN APPROVED EQUIVALENT. ALL EXISTING SEPTIC SYSTEMS TO BE ABANDONED. ABANDONED TANKS TO BE FILLED OR REMOVED.
- SANITARY SEWER SHALL BE AIR TESTED.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL LABOR AND MATERIAL FOR THE TESTING, AND SHALL SATISFY HIMSELF THAT TESTS CAN BE SUCCESSFULLY COMPLETED PRIOR TO REQUESTING THE ENGINEER'S PRESENCE FOR THE OFFICIAL TESTS.
- FOLLOWING INITIAL SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1. IN ADDITION, ALL OTHER DISTURBED OR GRADED AREAS WILL BE STABILIZED WITHIN FOURTEEN CALENDAR DAYS.

REVIEWED AND APPROVED BY THE  
DIV. FOR ENVIRONMENTAL QUALITY  
DEPT. OF NATURAL RESOURCES  
IN ACCORDANCE WITH DNR 144.04 V.S.  
STATS. SUBJECT TO THE CONDITIONS  
SET FORTH IN THE LETTER OF APPROVAL

APPROVAL NUMBER: 94-0284  
APPROVAL DATE: 6-9-94

*E. J. DeLorenzo*  
ENGINEER'S SIGNATURE 5/25/94

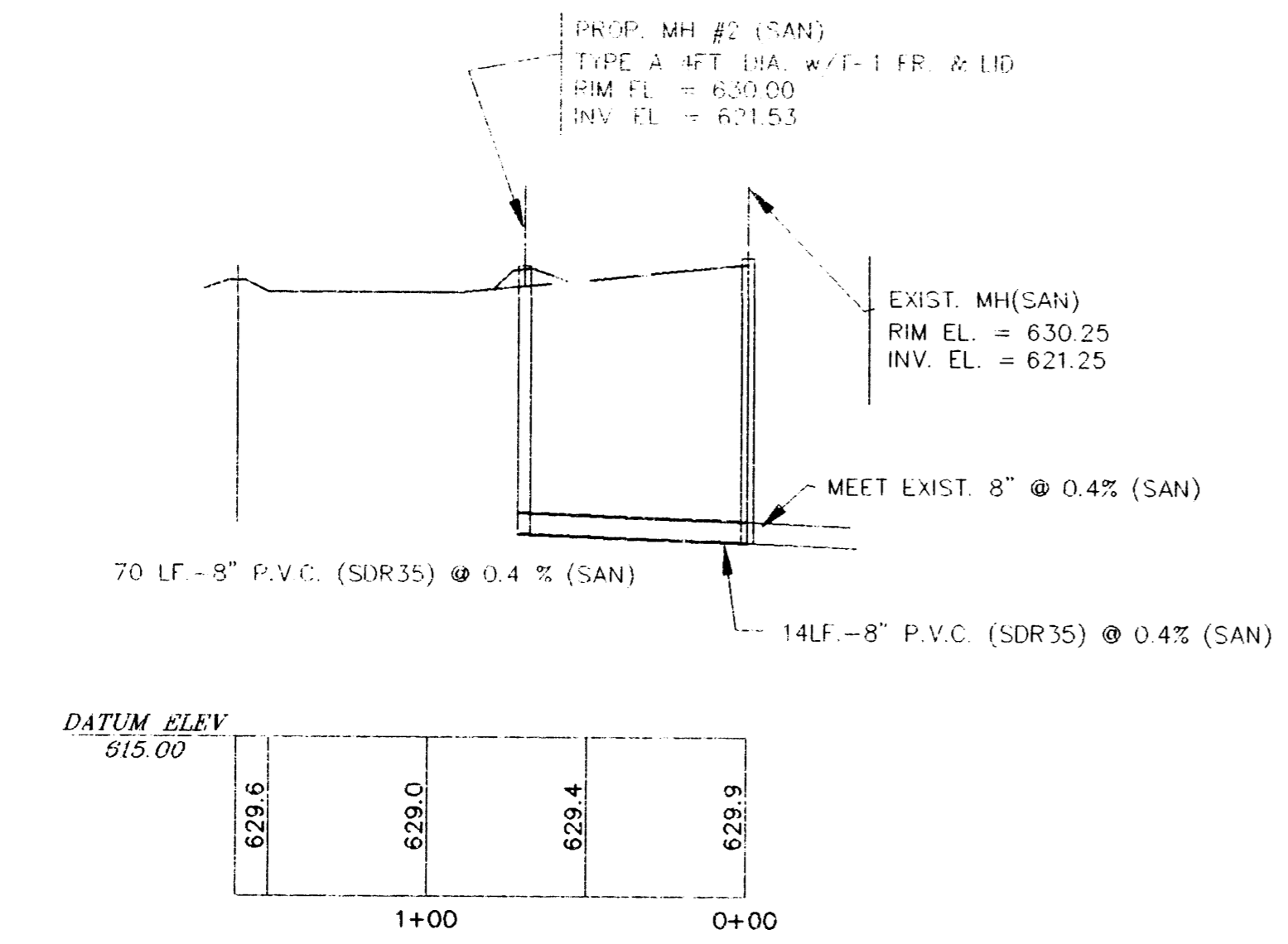
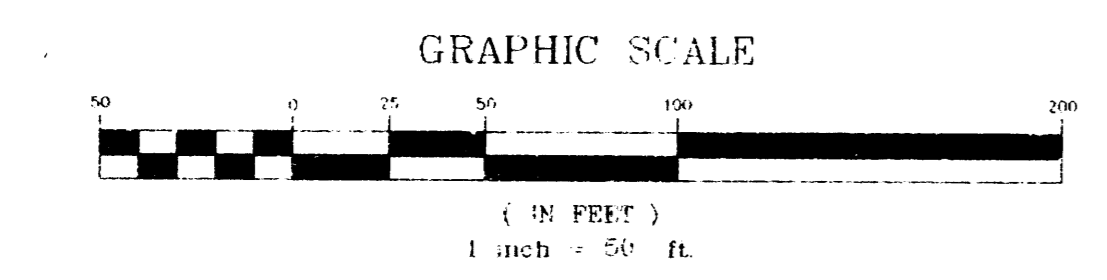
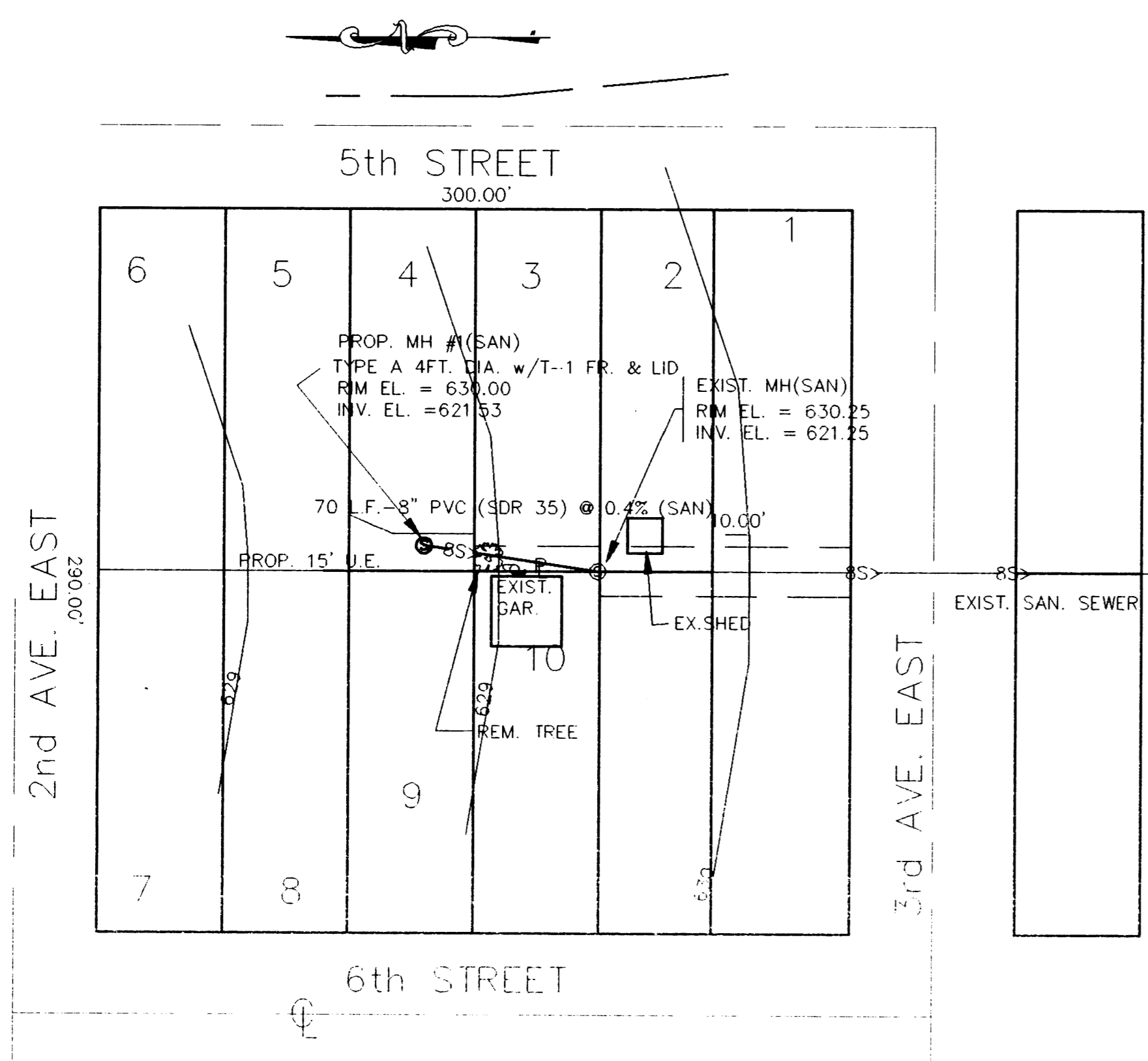
E1754  
P.E. NO.

WISCONSIN PROFESSIONAL ENGINEER

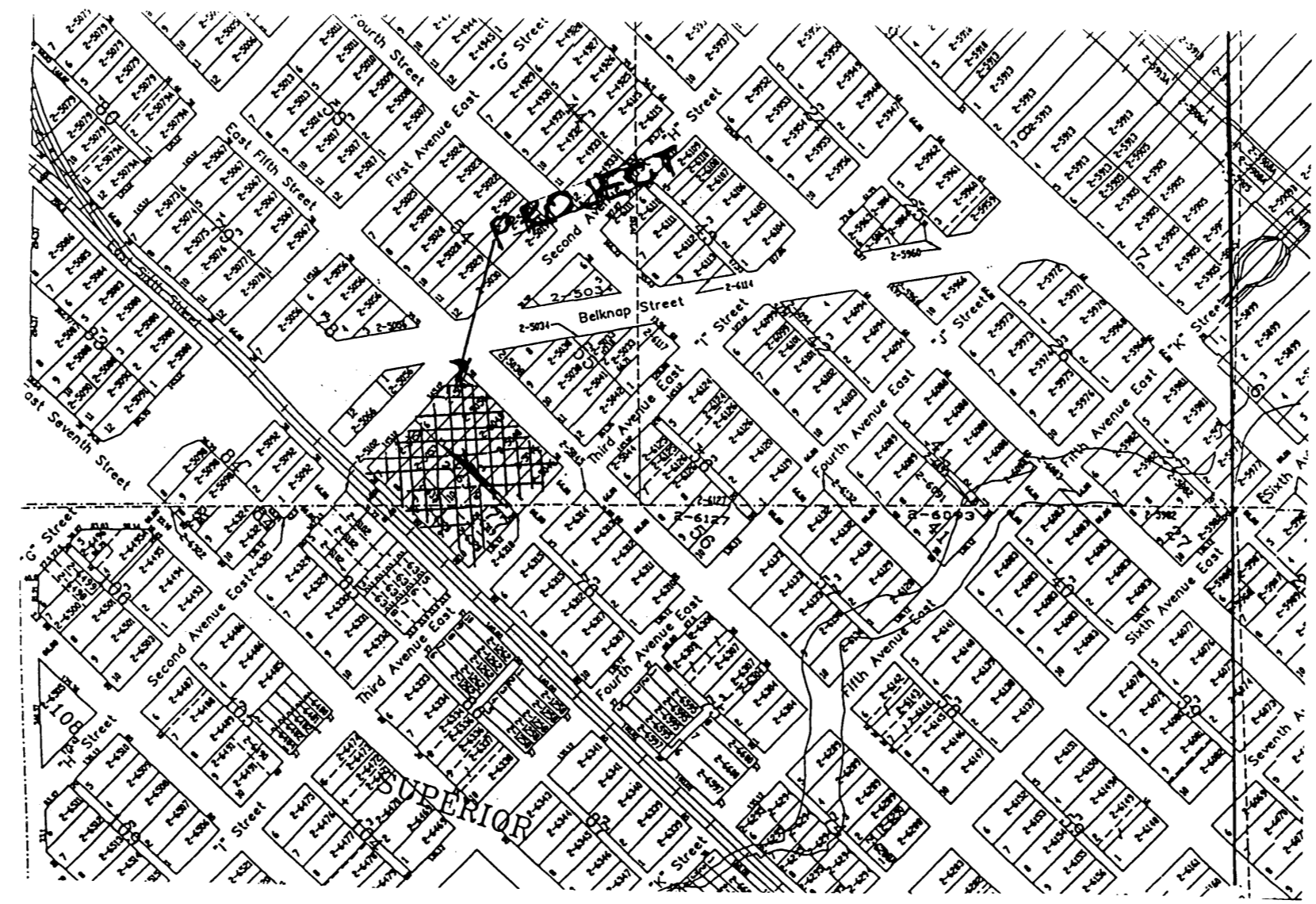
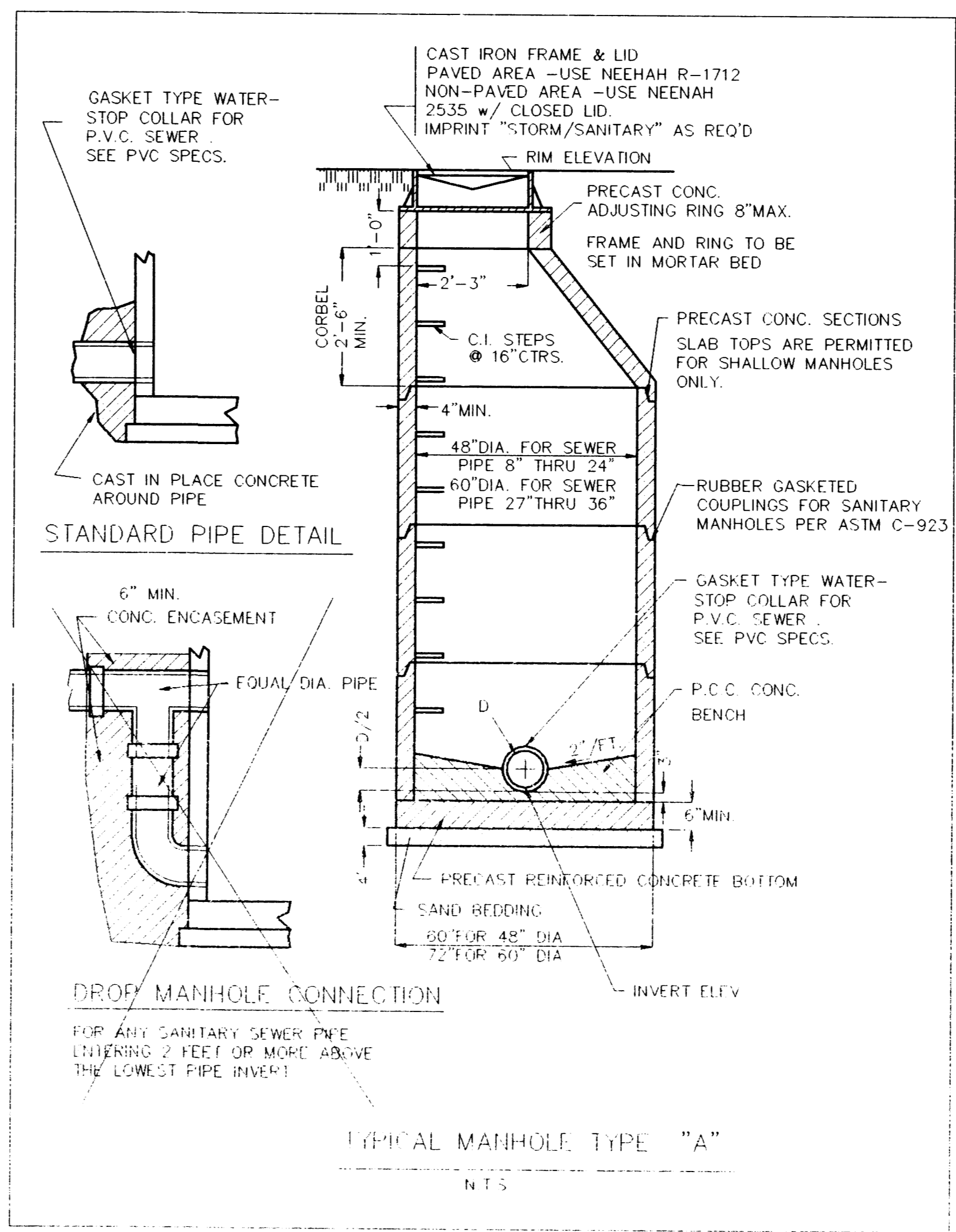
I HEREBY CERTIFY THAT ALL PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME AND IN COMPLIANCE WITH MUNICIPAL ORDINANCES AND WITH GOOD ENGINEERING PRACTICE.

**CRI ENGINEERING**  
Civil Engineering  
Land Planning  
Construction Management  
12 BADGER DRIVE SUPERIOR, WI. 54880  
(715) 394 7338 FAX (715) 394 7322

|   |         |             |            |                                       |                 |              |
|---|---------|-------------|------------|---------------------------------------|-----------------|--------------|
| 1 | 5/25/95 | ADD MANHOLE | <i>Cri</i> | JOB NAME:                             | DRAWN BY: CRI   | CHECKED BY:  |
|   |         |             |            | SAN. SEWER EXTENSION FOR HABITAT INC. | SCALE: 1" = 50' | DATE: 5/9/94 |
|   |         |             |            | DESCRIPTION: PLAN AND PROFILE         | JOB NUMBER      | SHEET        |
|   |         |             |            |                                       | 1               | 1            |



PROFILE  
1" = 50' HOR.  
1" = 5' VERT.



LOCATION MAP

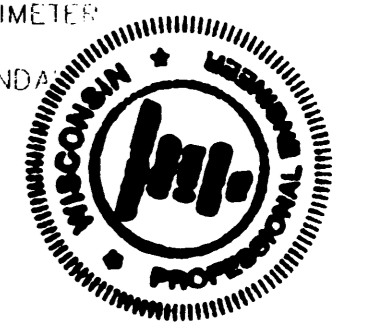
GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WSDOT AND STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN WISCONSIN, 5th EDITION, WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK AND APPLICABLE SUPERIOR, WI. ORDINANCES.
  2. BENCH MARK ELEVATIONS ARE TOP OF MANHOLE FRAMES.
  3. 830.0 T.C. INDICATES TOP OF CURB ELEVATION.  
830.0 F.F. INDICATES ELEVATION OF FINISHED FRAME.  
830.0 G.H. INDICATES ELEVATION OF GROUND @ PROPOSED HYDRANT LOCATION.
  4. PAY ITEM - BITUMINOUS CON. SURFACE CL.B. - SHALL INCLUDE BITUMINOUS MATERIAL (PRIME) ACCORDING TO THE STANDARD SPECIFICATIONS.
  5. PAY ITEM - PARKWAY RESTORATION - SHALL INCLUDE TOPSOIL PLACEMENT AND SEEDING ACCORDING TO THE STANDARD SPECIFICATIONS.
  6. THE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THE PLANS FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UTILITY INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS.
  7. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IN ORDER TO HAVE EXISTING UNDERGROUND LOCATIONS STAKED PRIOR TO CONSTRUCTION.
- NOTE: ALL CONTRACTORS TO NOTIFY VILLAGE ENGINEERS THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK, FAILURE TO DO SO MAY RESULT IN REJECTION OF COMPLETED WORK.

SANITARY SEWER CONSTRUCTION

1. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.
  2. ALL SANITARY SEWER AND SEWER PIPE JOINTS SHALL CONFORM TO:  
PVC SEWER - GASKET = D-3212  
SOLVENT = D2855  
PIPE = SDR 35 ASTM D2241
  3. MINIMUM BEDDING - FOUR INCHES BELOW PIPE TO SPRING LINE, EXCEPT FOR P.V.C. WHICH SHALL BE FOUR INCHES BELOW PIPE TO TWELVE INCHES ABOVE THE TOP OF THE PIPE. BEDDING SHALL BE OF GRADE #2 SAND.
  4. MANHOLES SHALL HAVE FOUR INCHES OF STONE BEDDING. THE JOINTS SHALL HAVE 12\"/>
1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOL.  
(CUTWIP-FAST MACHINING OR SIMILAR) AND PROPER INSTALLATION OF HUB-WIRE SADDLE OR HUB-TEE SADDLE.
  2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE END) AND REPLACE WITH A WIRE OR FLE BRIDGE SECTION.
  3. WITH PIPE CENTERED, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR REPAIR OR IMPROVED FITTING, USING BAND-HEAT OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
8. WHEREVER A SEWER CROSSES UNDER A WATERMAIN OR WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 12\"/>
10. SANITARY SEWER SHALL BE AIR TESTED.
  11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL LABOR AND MATERIAL FOR THE TESTING, AND SHALL SATISFY HIMSELF THAT THE TESTS CAN BE SUCCESSFULLY COMPLETED PRIOR TO REQUESTING THE ENGINEER'S PRESENCE FOR THE OFFICIAL TESTS.
  12. FOLLOWING INITIAL SOE INTERFERENCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROL, DRAINS, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1. IN ADDITION, ALL OTHER DISTURBED OR CRATERED AREAS WILL BE STABILIZED WITHIN FOURTEEN CALENDAR DAYS.

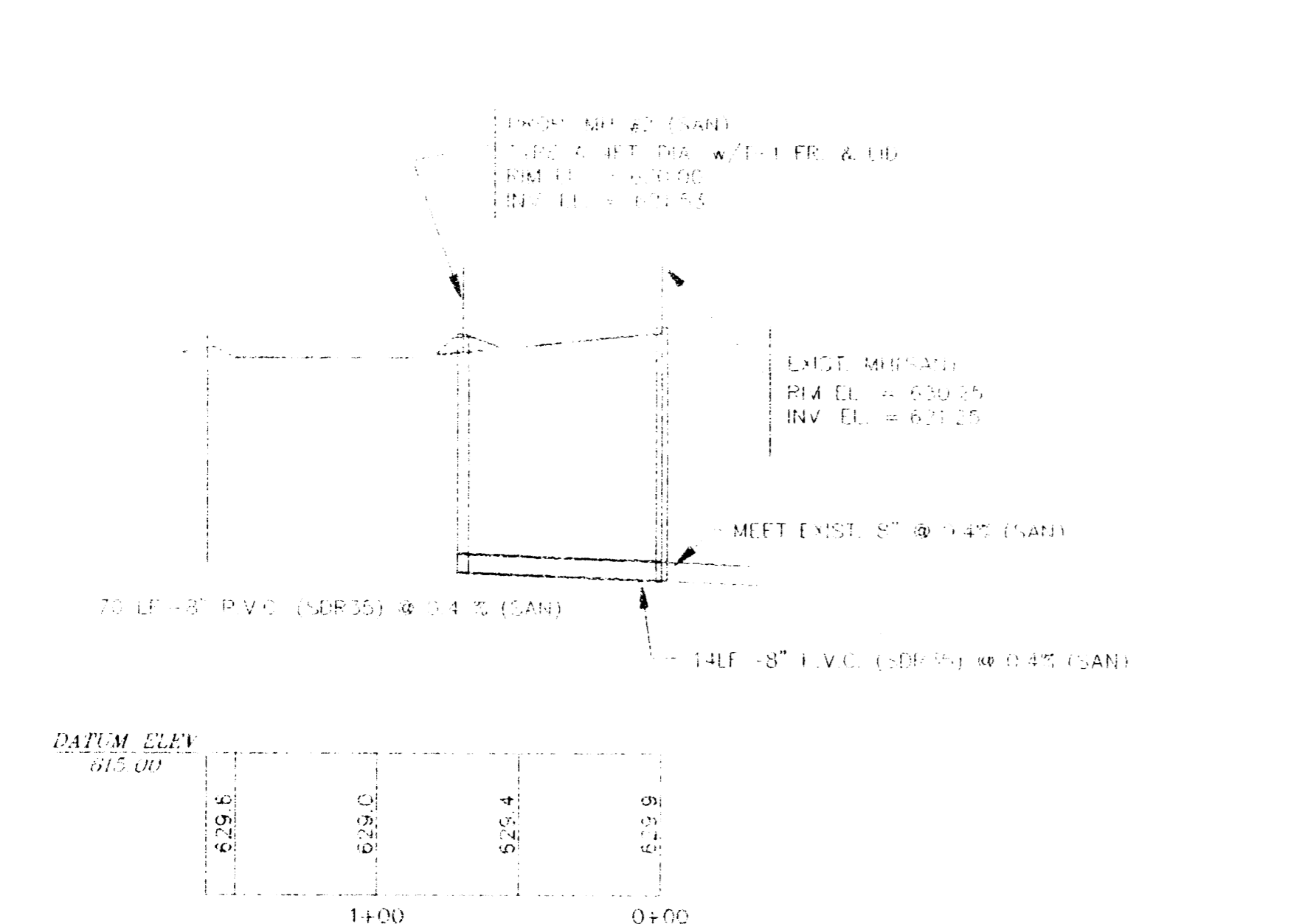
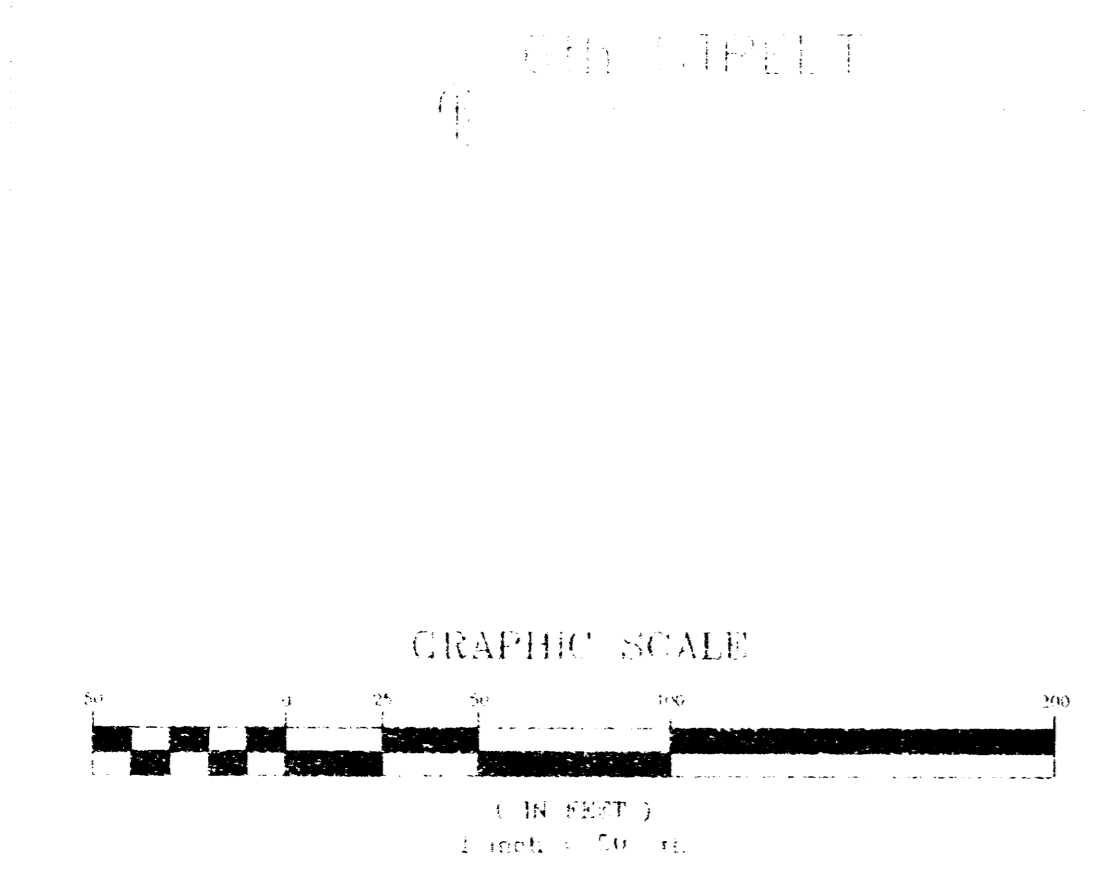
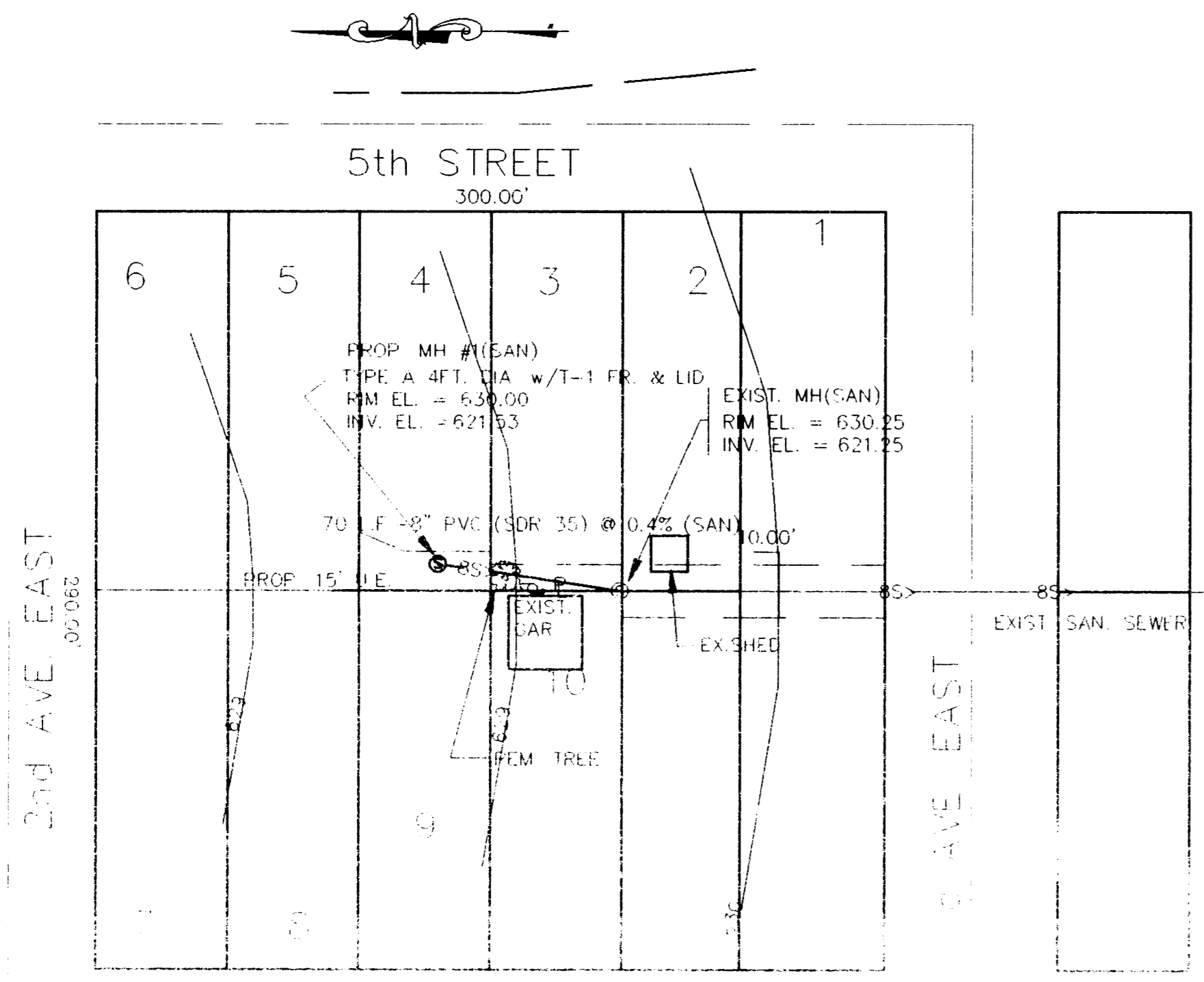
*E. J. Johnson*  
ENGINEER'S SIGNATURE  
E-17,591  
P.L. NO.



I, HEREBY, CERTIFY THAT ALL PLANS AND SPECIFICATIONS, HAVE BEEN PREPARED BY ME AND IN COMPLIANCE WITH MUNICIPAL ORDINANCES AND WITH GOOD ENGINEERING PRACTICE.

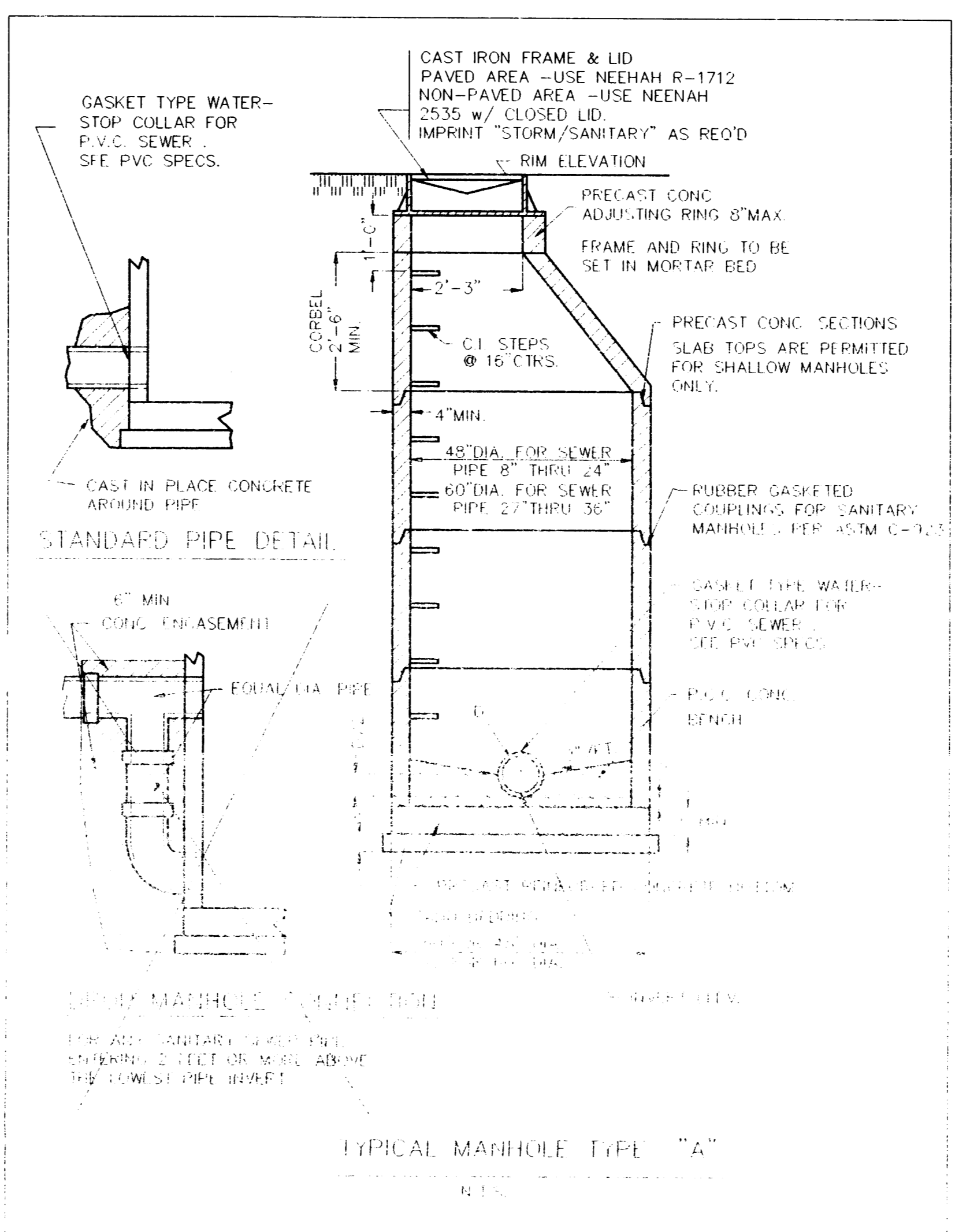
**CRI ENGINEERING**  
Civil Engineering  
Land Planning  
Construction Management  
12 BADGER DRIVE SUPERIOR, WI. 54880  
(715) 394 7338 FAX (715) 394 7322

|   |  |                 |              |
|---|--|-----------------|--------------|
| JOB NAME:<br>SAN. SEWER EXTENSION FOR<br>HABITAT INC. |  | DRAWN BY: CRI   | CHECKED BY:  |
| DESCRIPTION:<br>PLAN AND PROFILE                      |  | SCALE: 1" = 50' | DATE: 5/9/94 |
| NO. DATE DESCRIPTION                                  |  | JOB NUMBER      | SHEET        |
| 1 5/25/95 ADD MANHOLE                                 |  |                 |              |
| 1 5/25/95 REVISE PIPE                                 |  |                 |              |
|   |  |                 | 1            |



DATUM ELEV 815.00'

|       |       |       |       |
|-------|-------|-------|-------|
| 629.6 | 629.0 | 628.4 | 627.8 |
| 1+00  |       |       | 0+00  |



LOCATION MAP

- GENERAL NOTES
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WSDOT, AND STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN WISCONSIN, 5th EDITION, WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK AND APPLICABLE SUPERIOR, WI. ORDINANCES.
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8. ELEVATION DATUM IS USGS
- SANITARY SEWER CONSTRUCTION
1. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.
  2. ALL SANITARY SEWER AND SEWER PIPE JOINTS SHALL CONFORM TO:
    - PVC SEWER PIPE = D-3212
    - MANHOLE = D-3255
    - PIPE = SDR 35 ASIM D2741
  3. MINIMUM BEDDING FOR MANHOLES BELOW PIPE SHALL BE 18\"/>

4. MANHOLES SHALL HAVE FOUR INCHES OF STONE BEDDING. THE JOINTS SHALL HAVE 7\"/>
- 5. WATER-STOP GASKETS SHALL BE PROVIDED AT ALL SANITARY SEWER MANHOLE CONNECTIONS. SUCH GASKETS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS FOR THE TYPE OF PIPE USED.
- 6. WHEREVER UNUTILIZED CROSS PAVED AREAS, TRENCHES SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL. WHEREVER ONE UTILITY TRENCH CROSSES ANOTHER, THE LOWER TRENCH SHALL IN ALL CASES BE BACKFILLED WITH APPROVED GRANULAR MATERIAL.
- 7. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
  1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
  2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
  3. WITH PIPE CUTTER NEATLY AND ACCURATELY CUT OUT DECIDED LENGTH OF PIPE FOR REPAIR OR PROPER FITTING USING BANDS AND JOINTS SIMILAR TO THOSE TO HOLD IT TO PLACE.
- 8. WHEREVER A TRENCH CROSSES A WATERMAIN OR FORMER SEWER, THE MINIMUM DEPTH OF COVER SHALL BE 48\"/>

*Charles R. Dugan*  
ENGINEER

E-17541 2/6/95



REVIEWED AND APPROVED BY THE DIV. FOR ENVIRONMENTAL QUALITY, DEPT. OF NATURAL RESOURCES IN ACCORDANCE WITH SEC. 144.04 WIS. STATE. SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.

|             |      |                 |      |
|-------------|------|-----------------|------|
|             |      | APPROVAL NUMBER |      |
|             |      | APPROVAL DATE   |      |
| NAME        | DATE | TIME            | DATE |
| WATER SEWER |      |                 |      |
| HABITAT     |      |                 |      |
| PROJECT     |      |                 |      |
| DATE        |      |                 |      |