

BEACON KNOLL ESTATES, PHASE 3

SUPERIOR, WI.

GENERAL NOTES

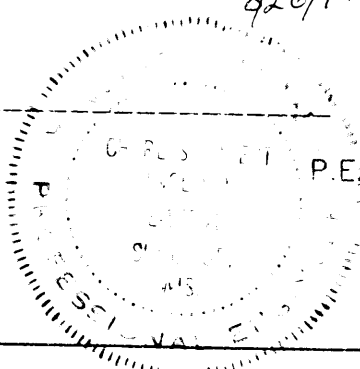
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WISDOT, AND STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN WISCONSIN, 5TH EDITION, WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK, WISCONSIN ADMINISTRATIVE CODE, LATEST EDITION, AND APPLICABLE LOCAL ORDINANCES.
 - BENCH MARK ELEVATIONS ARE TOP OF MANHOLE FRAMES.
 - 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.
 - PAY ITEM - BITUMINOUS CON. SURFACE CLR - 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.
- NOTE: ALL CONTRACTORS TO NOTIFY CITY ENGINEER THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. FAILURE TO DO SO MAY RESULT IN REJECTION OF COMPLETED WORK.
- ELEVATION DATUM IS USGS.
 - CONTRACTORS AND SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. ANY DEVIATIONS OR OMISSIONS SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SANITARY SEWER CONSTRUCTION

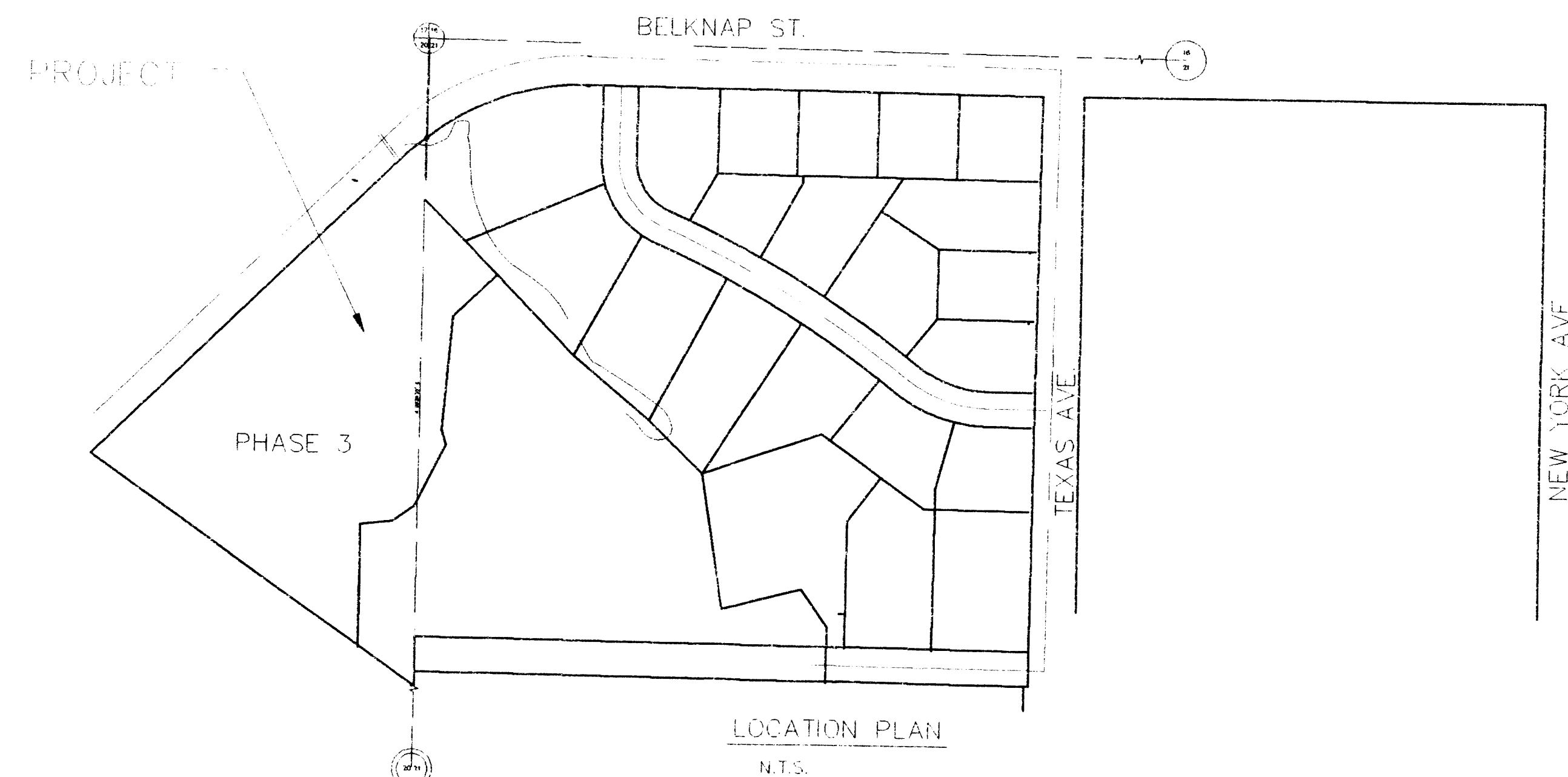
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.
- ALL SANITARY SEWER AND SEWER PIPE JOINTS SHALL CONFORM TO:
PVC SEWER - GASKET = 0-3212
SOLVENT = D2R55
PIPE = SDR 35 ASTM D2241
- MINIMUM BEDDING: FOUR INCHES BELOW PIPE TO SPRING LINE, EXCEPT FOR P.V.C. WHICH SHALL BE FOUR INCHES BELOW PIPE TO TWELVE INCHES ABOVE THE TOP OF THE PIPE. BEDDING SHALL BE OF GRADE #2 SAND.
- MANHOLES SHALL HAVE FOUR INCHES OF STONE BEDDING. THE JOINTS SHALL HAVE "O" RING OR SHALL BE PREFORMED BITUMINOUS PLASTIC GASKET WITH INERT MATERIAL FILLER SIMILAR TO RAM-NEK TO PROVIDE A WATERTIGHT SEAL.
- WATER-STOP GASKET 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 AREAS, TRENCHES SHALL BE BACK-FILLED 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-CUT 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 18". FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10' BETWEEN SANITARY SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR 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.
- 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.

ENGINEER'S SIGNATURE: *C. P. Pfeiffer*
P.E. NO. E-17541



DEVELOPER:
KIMMES CONSTRUCTION CO.
6327 TOWER AVE.
SUPERIOR WI.
715 394 4717



INDEX

SHEET	DESCRIPTION
1	TITLE
2	EXISTING TOPOGRAPHY
3	SITE PLAN
4	VOIDED
5	GRADING PLAN
6	PROFILES
7	DETAILS
8	EROSION CONTROL PLAN
9	EROSION CONTROL STANDARDS

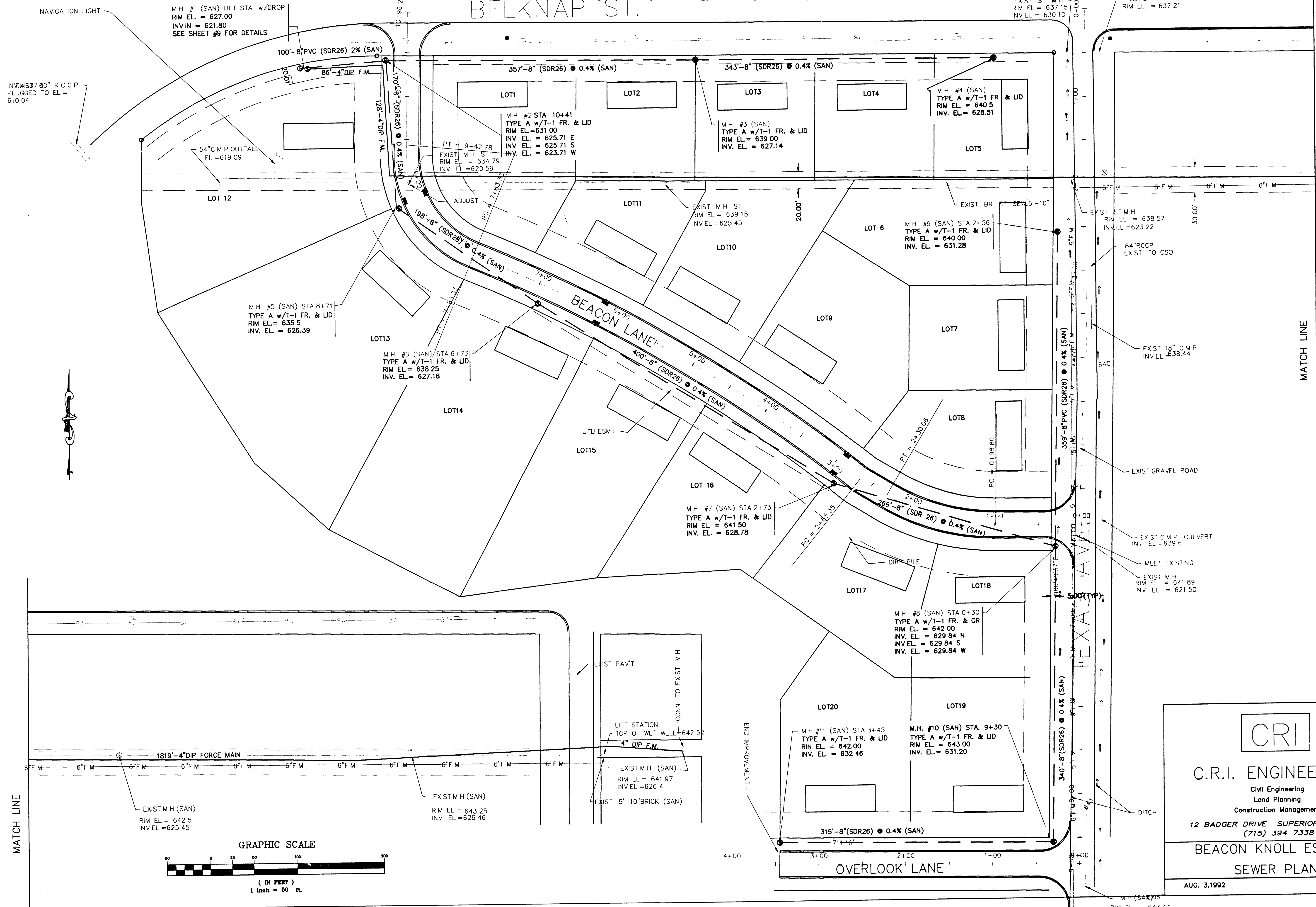
REVIEWED AND APPROVED BY THE
DIV. FOR ENVIRONMENTAL QUALITY,
DEPT. OF NATURAL RESOURCES IN
ACCORDANCE WITH SSC, 10.034 WIS.
STATS. SUBJECT TO THE CONDITIONS
SET FORTH IN THE LETTER OF APPROVAL.
APPROVAL NUMBER: 96-1428
APPROVAL DATE: 9-26-94

RECEIVED DNR
SEP 07 1994
BUREAU OF
WASTEWATER MGMT.

 Civil Engineering Land Planning Construction Management 12 BADGER DRIVE SUPERIOR, WI. 54880 (715) 394 7338 FAX (715) 394 7233		JOB NAME:	
		BEACON KNOLLS ESTATES PHASE 3 SUPERIOR, WI.	
DRAWN BY: CRI		CHECKED BY:	
SCALE: 1"=50'		DATE: 7/19/94	
JOB NUMBER		SHEET	
DESCRIPTION: TITLE		1	

BENCHMARK:
TOP OF ST. MANHOLE AT S.W. CORNER
OF BELKNAP AND TEXAS AVE.
ELEV. = 637.15

BELKNAP ST.



M.H. #1 (SAN) LIFT STA w/DROP
RIM EL = 627.00
INV EL = 621.80
SEE SHEET #9 FOR DETAILS

IN EX. 60" R.C.C.P.
PLUGGED TO EL = 610.04

M.H. #5 (SAN) STA 8+71
TYPE A w/T-1 FR. & LID
RIM EL = 635.5
INV. EL = 626.39

M.H. #6 (SAN) STA 6+73
TYPE A w/T-1 FR. & LID
RIM EL = 638.25
INV. EL = 627.18

M.H. #2 STA 10+41
TYPE A w/T-1 FR. & LID
RIM EL = 631.00
INV EL = 625.71 E
INV EL = 625.71 S
INV EL = 623.71 W

M.H. #3 (SAN)
TYPE A w/T-1 FR. & LID
RIM EL = 639.00
INV. EL = 627.14

M.H. #4 (SAN)
TYPE A w/T-1 FR. & LID
RIM EL = 640.5
INV. EL = 628.51

M.H. #9 (SAN) STA 2+56
TYPE A w/T-1 FR. & LID
RIM EL = 640.00
INV. EL = 631.28

M.H. #7 (SAN) STA 2+73
TYPE A w/T-1 FR. & LID
RIM EL = 641.50
INV. EL = 628.78

M.H. #8 (SAN) STA 0+30
TYPE A w/T-1 FR. & GR
RIM EL = 642.00
INV EL = 629.84 N
INV EL = 629.84 S
INV EL = 629.84 W

M.H. #11 (SAN) STA 3+45
TYPE A w/T-1 FR. & LID
RIM EL = 642.00
INV. EL = 632.46

M.H. #10 (SAN) STA. 9+30
TYPE A w/T-1 FR. & LID
RIM EL = 643.00
INV. EL = 631.20

EXIST M.H. (SAN)
RIM EL = 642.5
INV EL = 625.45

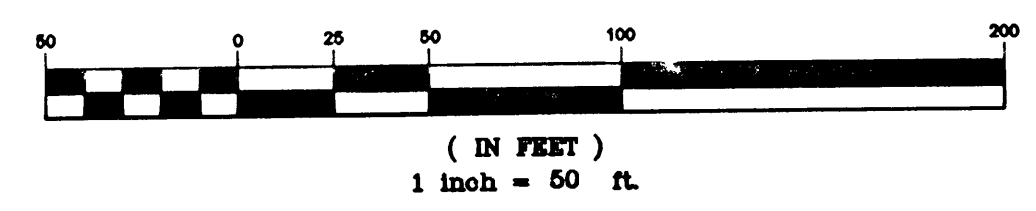
EXIST M.H. (SAN)
RIM EL = 643.25
INV EL = 626.46

EXIST M.H. (SAN)
RIM EL = 641.97
INV EL = 626.4

M.H. (SAN) EXIST
RIM EL = 643.44



GRAPHIC SCALE



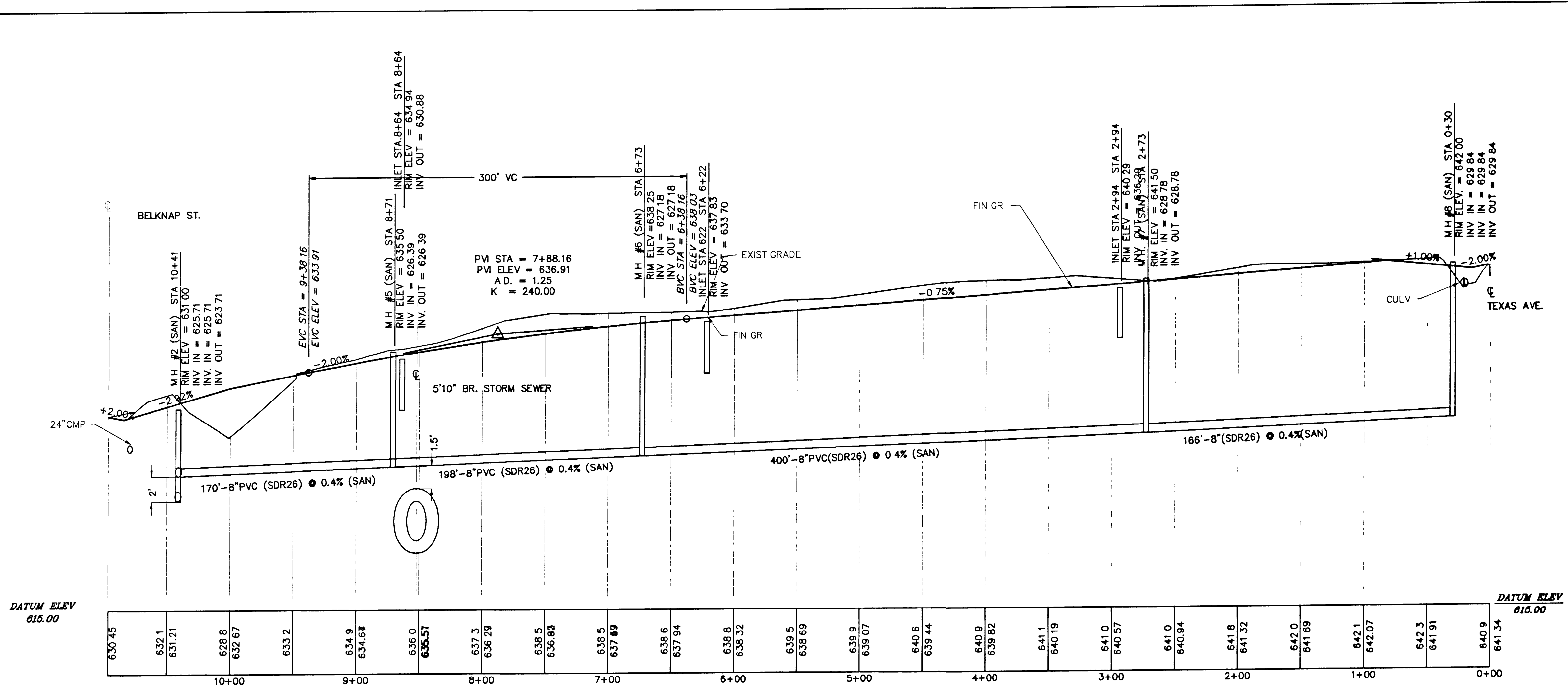
CRI

C.R.I. ENGINEERING
Civil Engineering
Land Planning
Construction Management

12 BADGER DRIVE SUPERIOR, W. 54880
(715) 394 7338

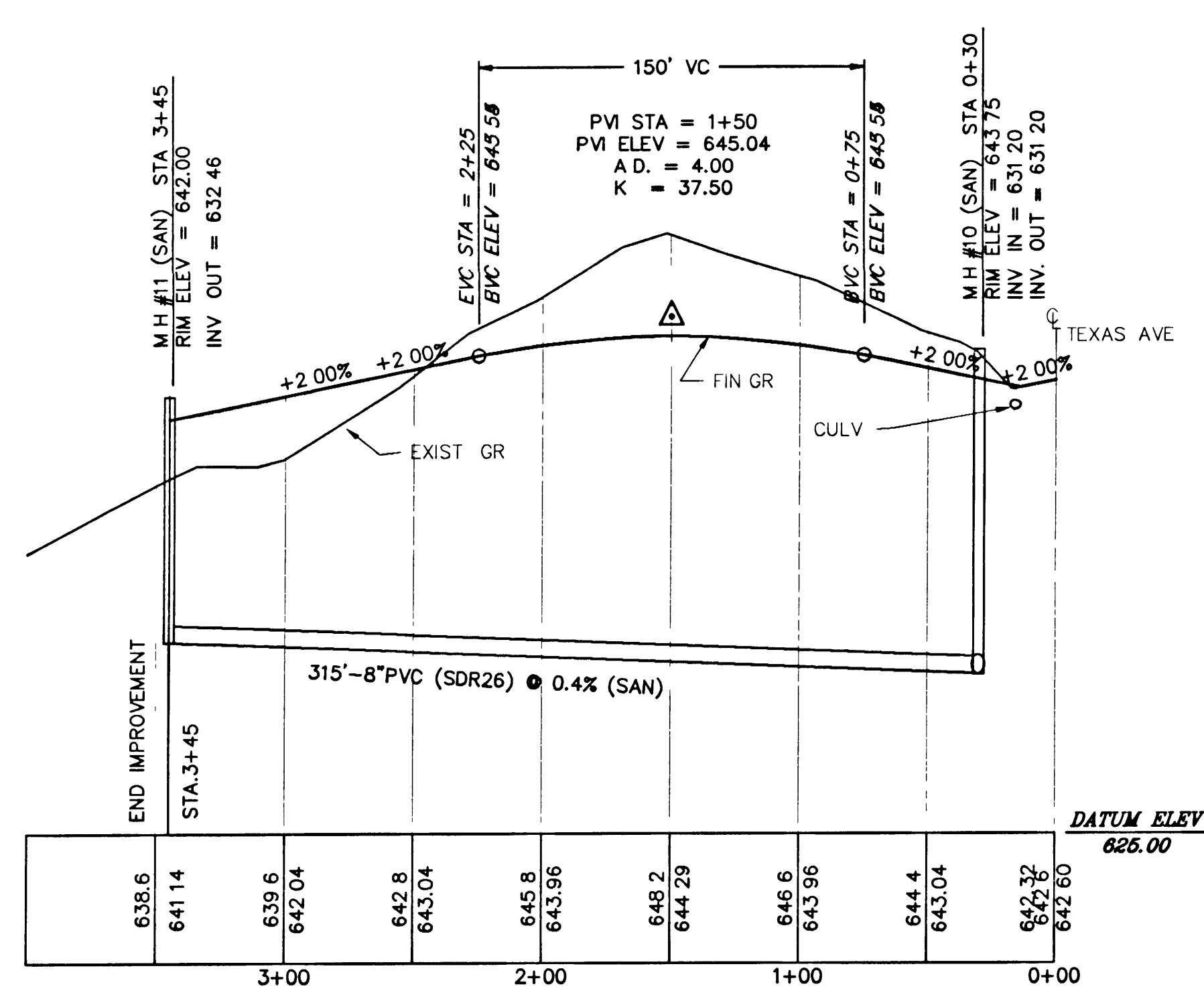
BEACON KNOLL ESTATES
SEWER PLAN

AUG. 3, 1992 SHEET # 4



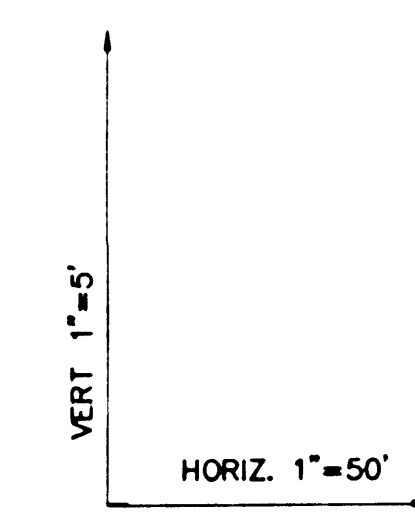
Station	Elevation
10+75	630.75
10+60	632.1
10+45	631.21
10+30	628.8
10+15	632.67
10+00	633.2
9+45	634.9
9+30	634.68
9+15	636.0
9+00	635.57
8+45	637.3
8+30	636.29
8+15	638.5
8+00	636.83
7+45	638.5
7+30	637.89
7+15	638.6
7+00	637.94
6+45	638.8
6+30	638.32
6+15	639.5
6+00	638.69
5+45	639.9
5+30	639.07
5+15	640.6
5+00	639.44
4+45	640.9
4+30	639.82
4+15	641.1
4+00	640.19
3+45	641.0
3+30	640.57
3+15	641.0
3+00	640.94
2+45	641.8
2+30	641.32
2+15	642.0
2+00	641.69
1+45	642.1
1+30	642.07
1+15	642.3
1+00	641.91
0+45	640.9
0+30	641.34


BEACON LANE



Station	Elevation
3+00	638.6
2+45	641.14
2+30	639.6
2+15	642.04
2+00	642.8
1+45	643.04
1+30	645.8
1+15	643.96
1+00	648.2
0+45	644.29
0+30	648.6
0+15	643.96
0+00	644.4
0+00	643.04
0+00	642.32
0+00	642.6
0+00	642.60

OVERLOOK LANE





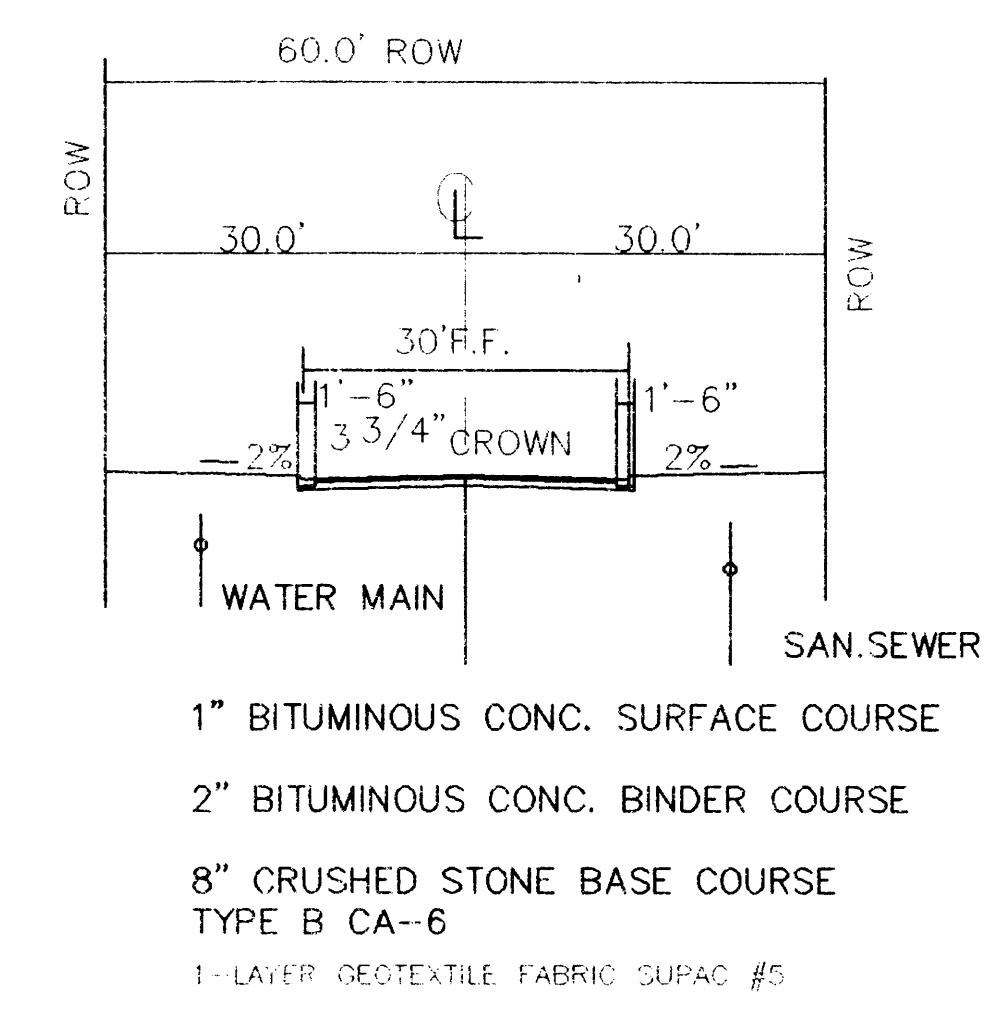
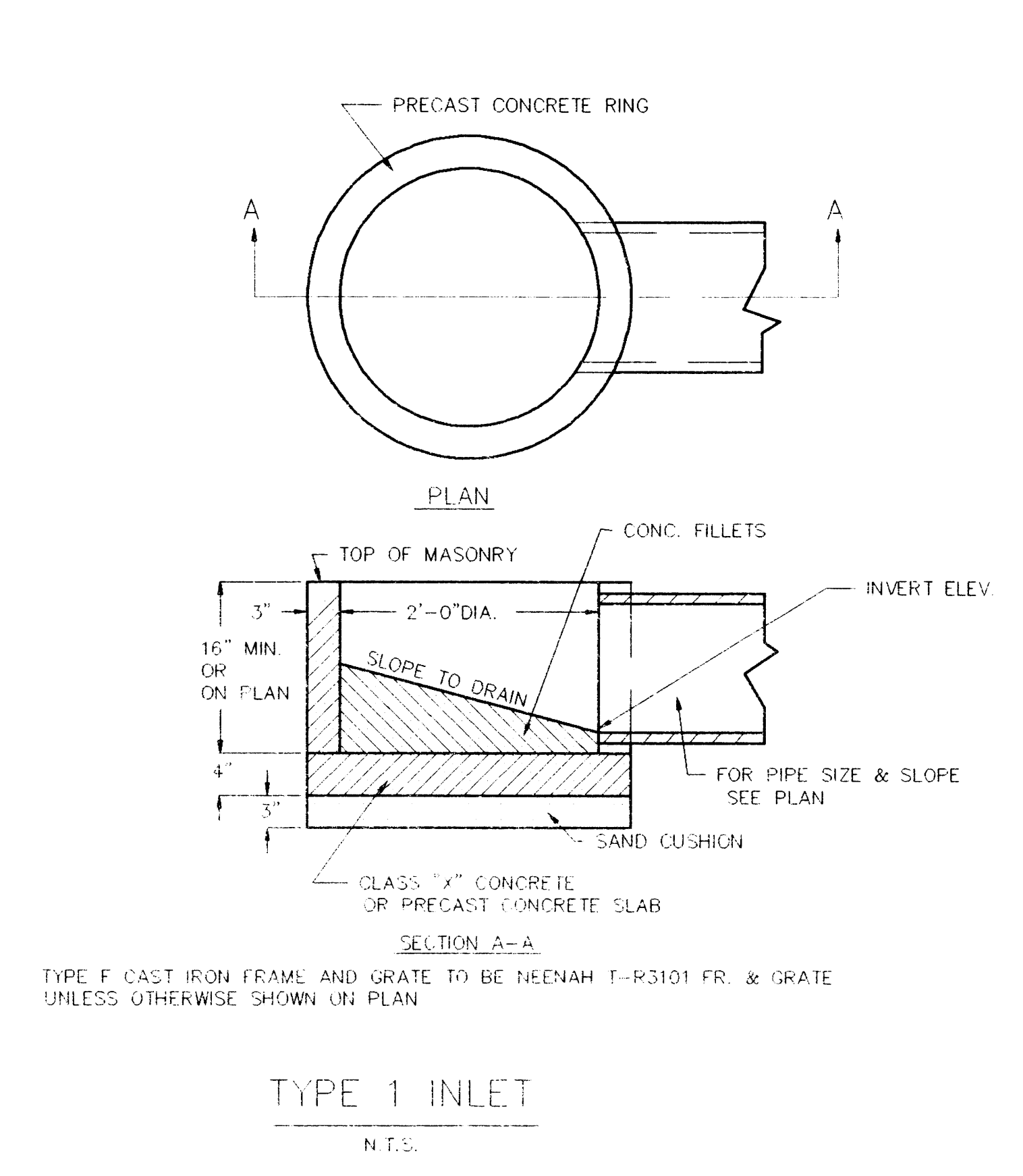
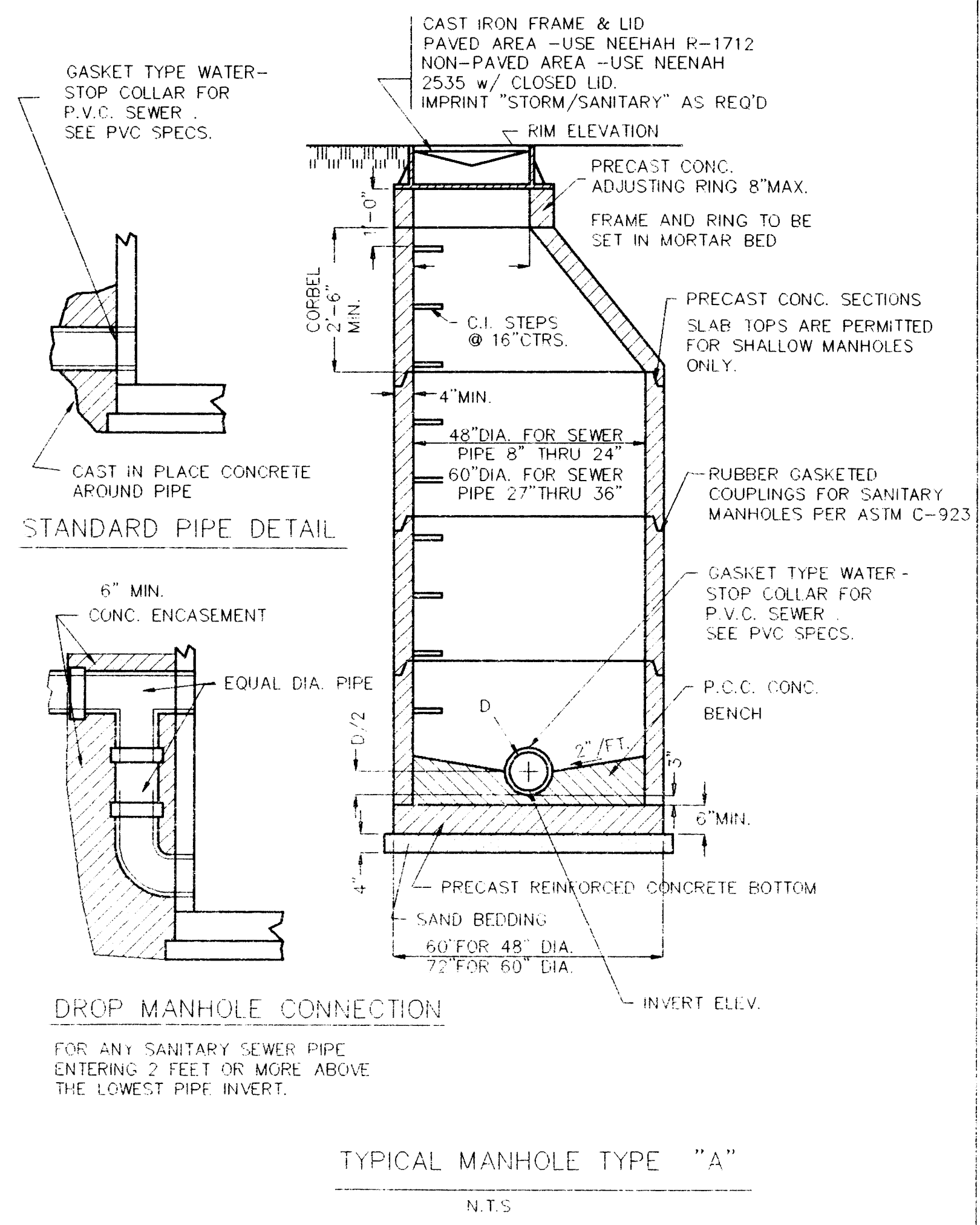
C.R.I. ENGINEERING

Civil Engineering
Land Planning
Construction Management

12 BADGER DRIVE SUPERIOR, WI. 54880
(715) 394 7338

**BEACON KNOLL ESTATES
PROFILES**

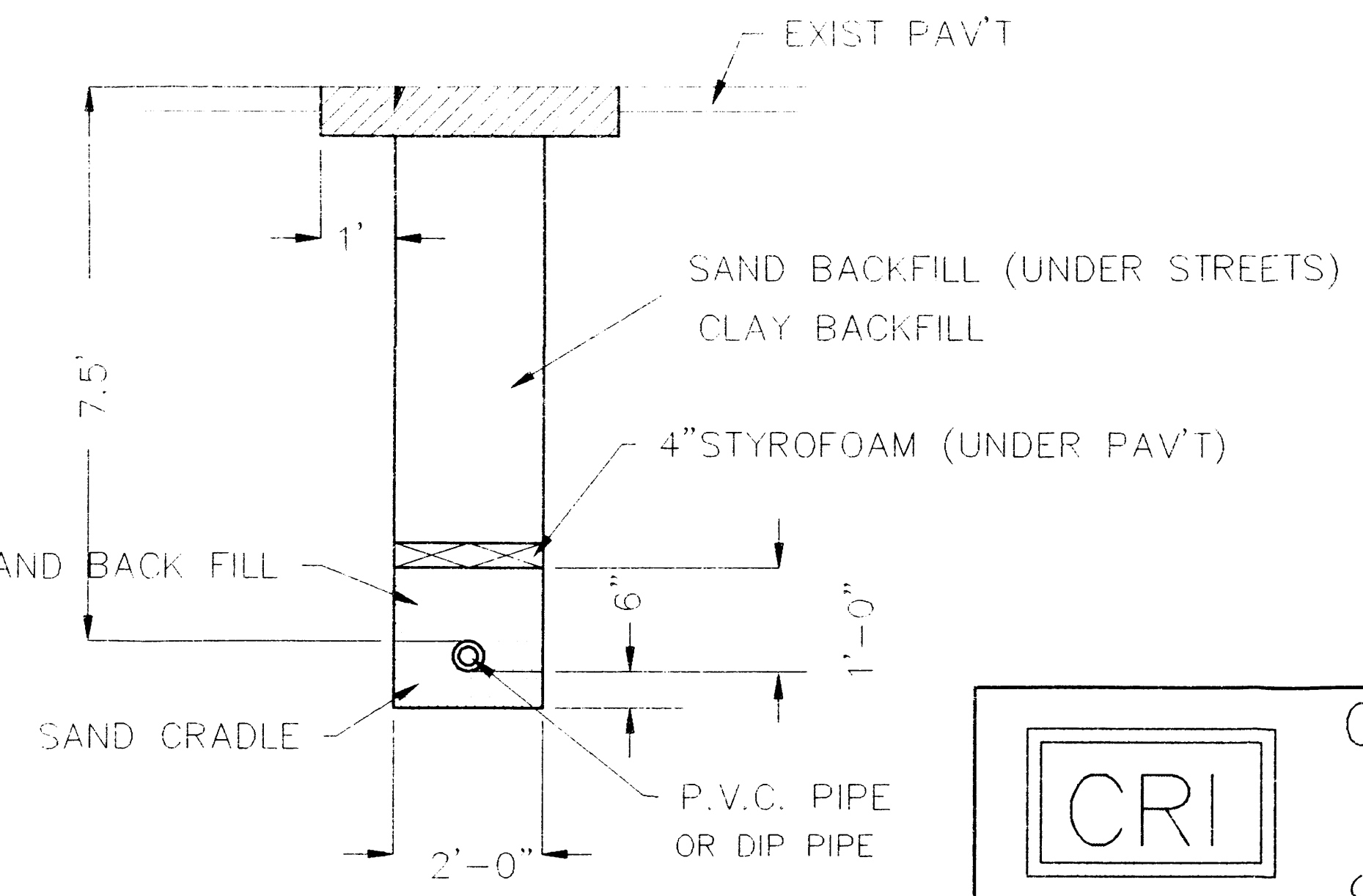
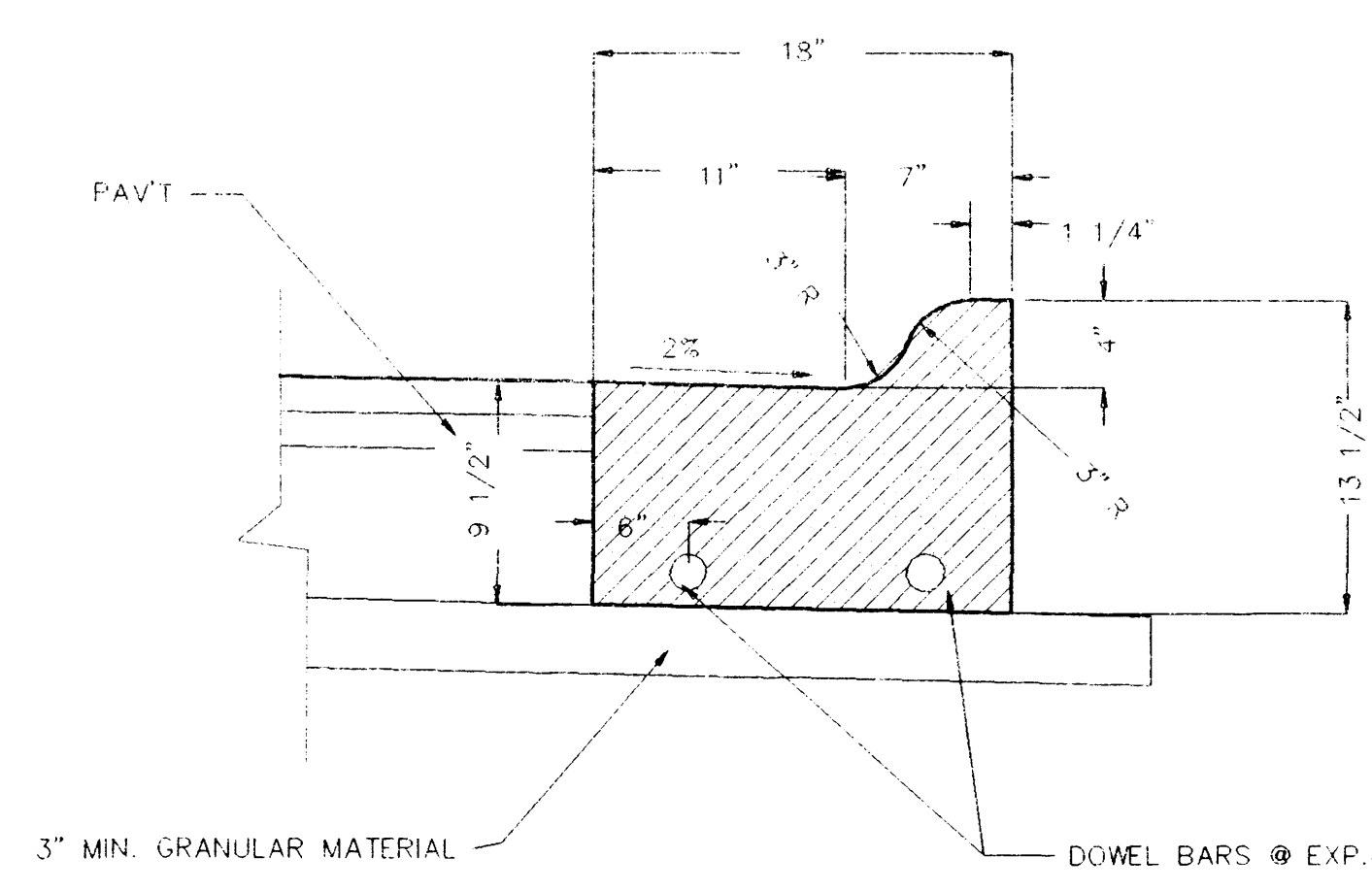
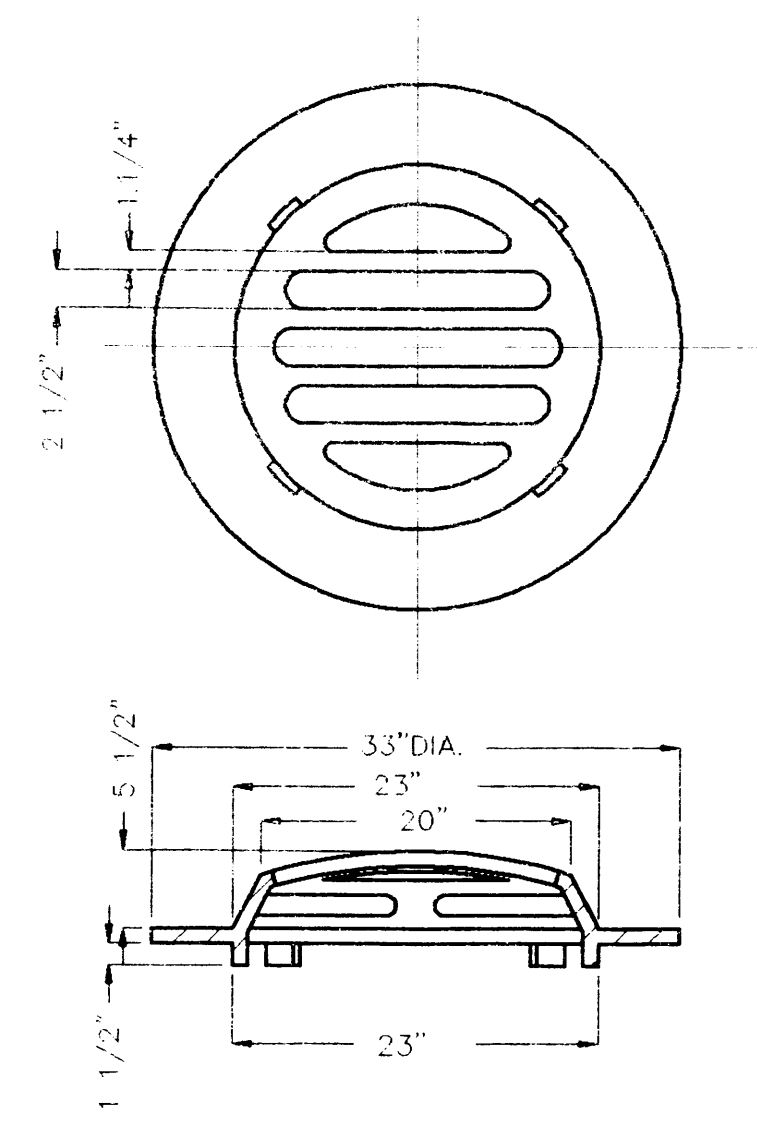
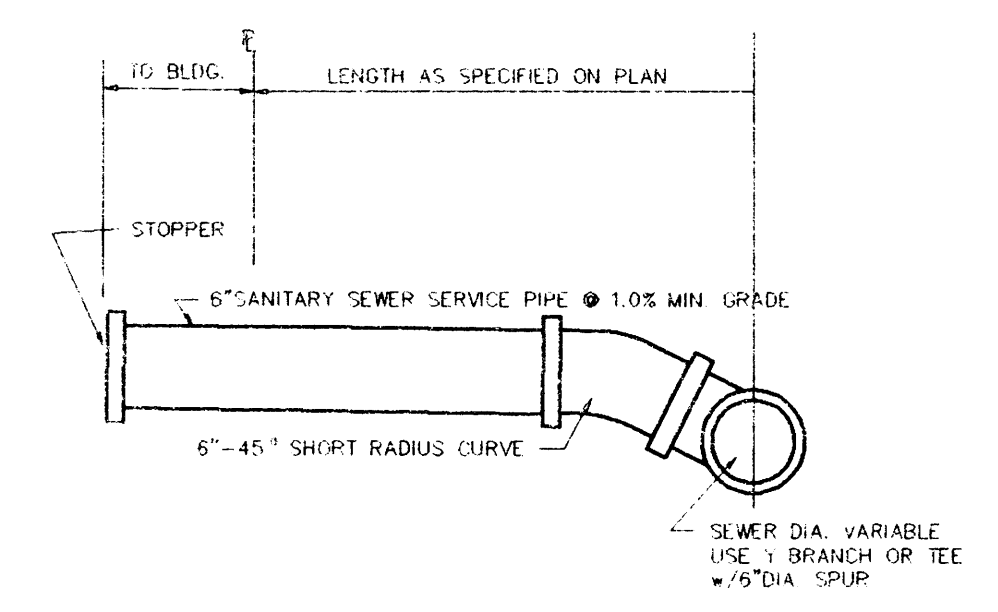
AUG 7, 1992
SHEET #6



TYPICAL STREET CROSS SECTION

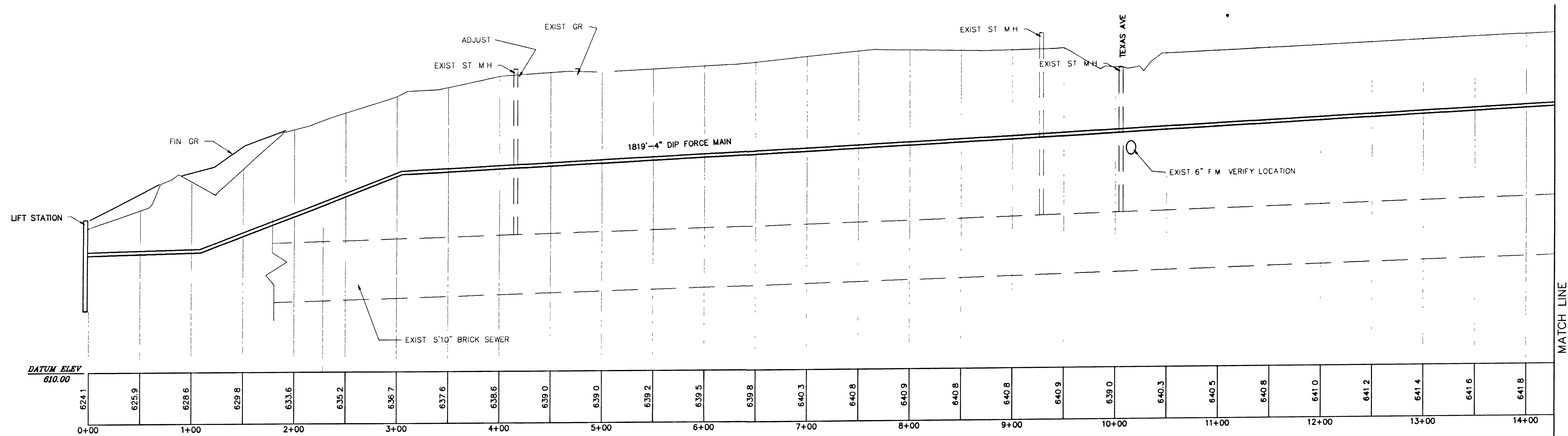
SURFACE COURSE SHALL BE INSTALLED AT LEAST 6 MONTHS AFTER BINDER COURSE OR DURING THE FOLLOWING CONSTRUCTION SEASON.

M-3.12 P.C.C. MOUNTABLE CURB & GUTTER BOTH SIDES



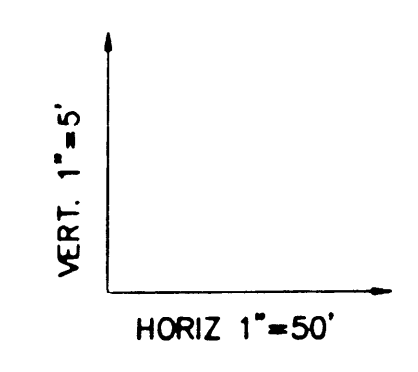
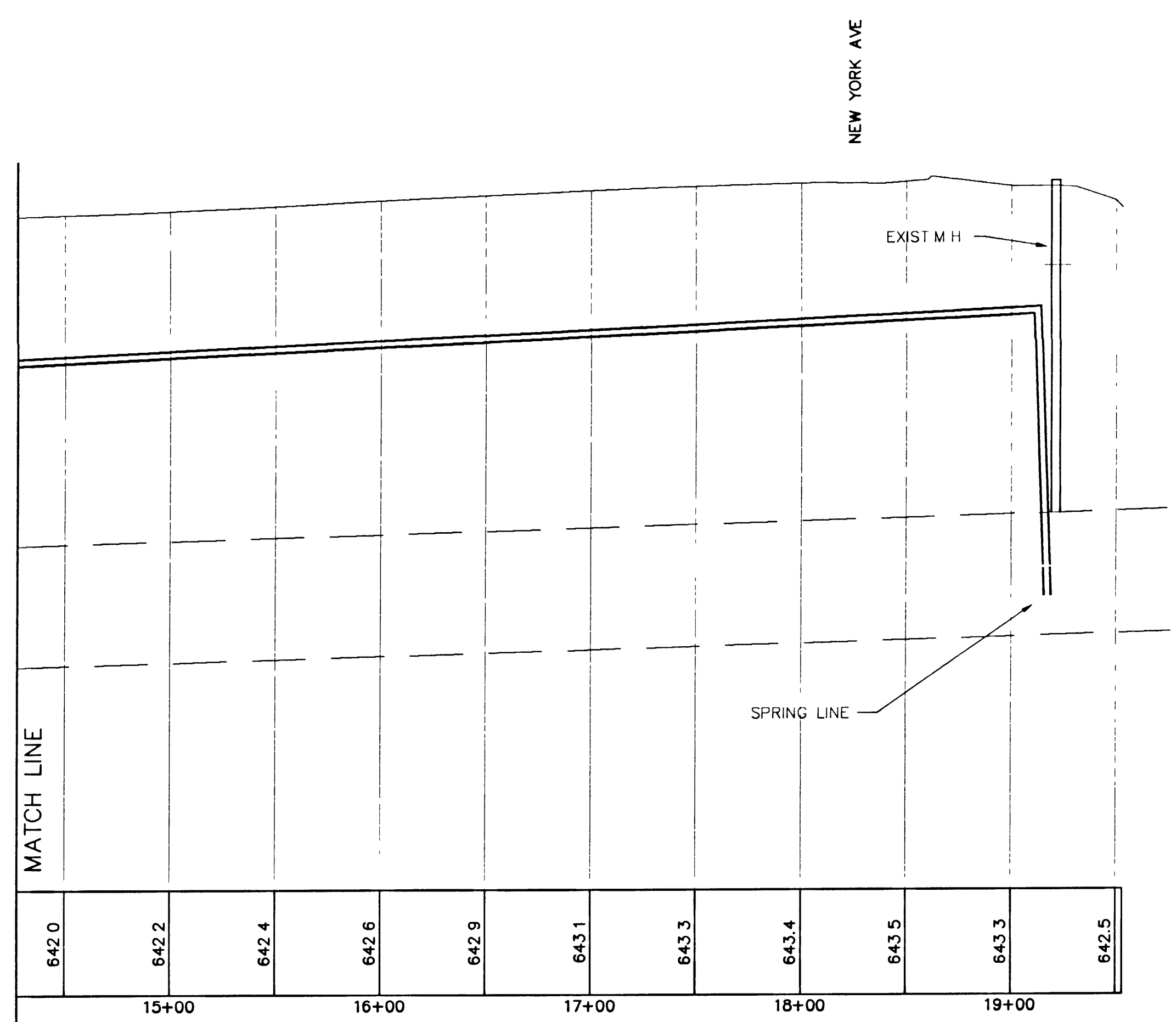
DETAIL OF CONDUIT INSTALLATION
N.T.S.


CRI ENGINEERING		
Civil Engineering Land Planning Construction Management		
12 BADGER DRIVE SUPERIOR, WI. 54880 (715) 394 7338 FAX (715) 394 7233		
JOB NAME: BEACON KNOLLS PHASE 3 SUPERIOR, WI.	DRAWN BY: CRI	CHECKED BY:
	SCALE: AS NOTED	DATE: 8/25/94
DESCRIPTION: DETAILS	JOB NUMBER	SHEET 7



NOTE: FORCE SHALL HAVE MINIMUM OF 6' COVER

FORCE MAIN PROFILE





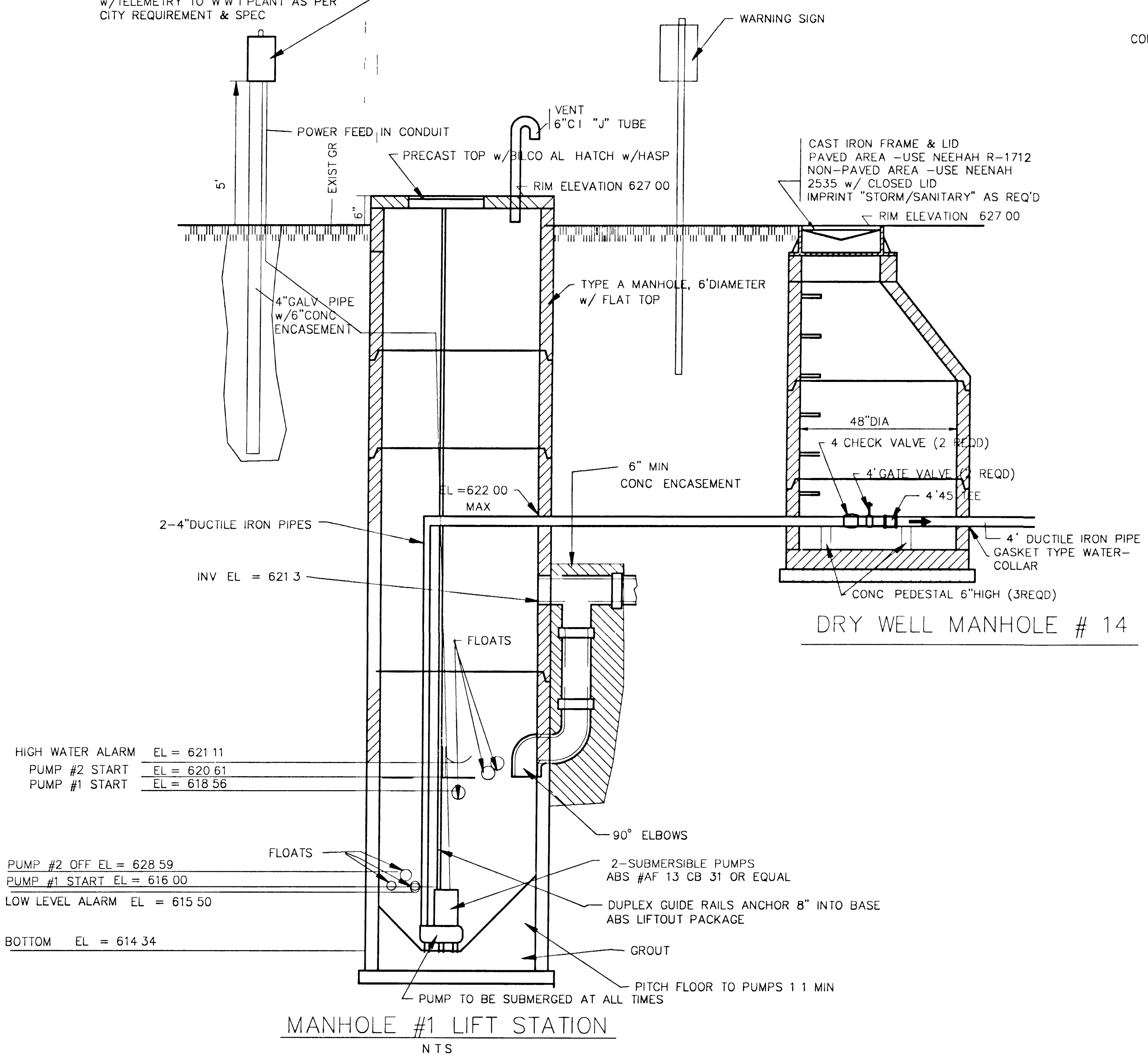
C.R.I. ENGINEERING
Civil Engineering
Land Planning
Construction Management

12 BADGER DRIVE SUPERIOR, WI. 54880
(715) 394 7338

**BEACON KNOLL ESTATES
PROFILES**

AUG. 3, 1992
SHEET # 8

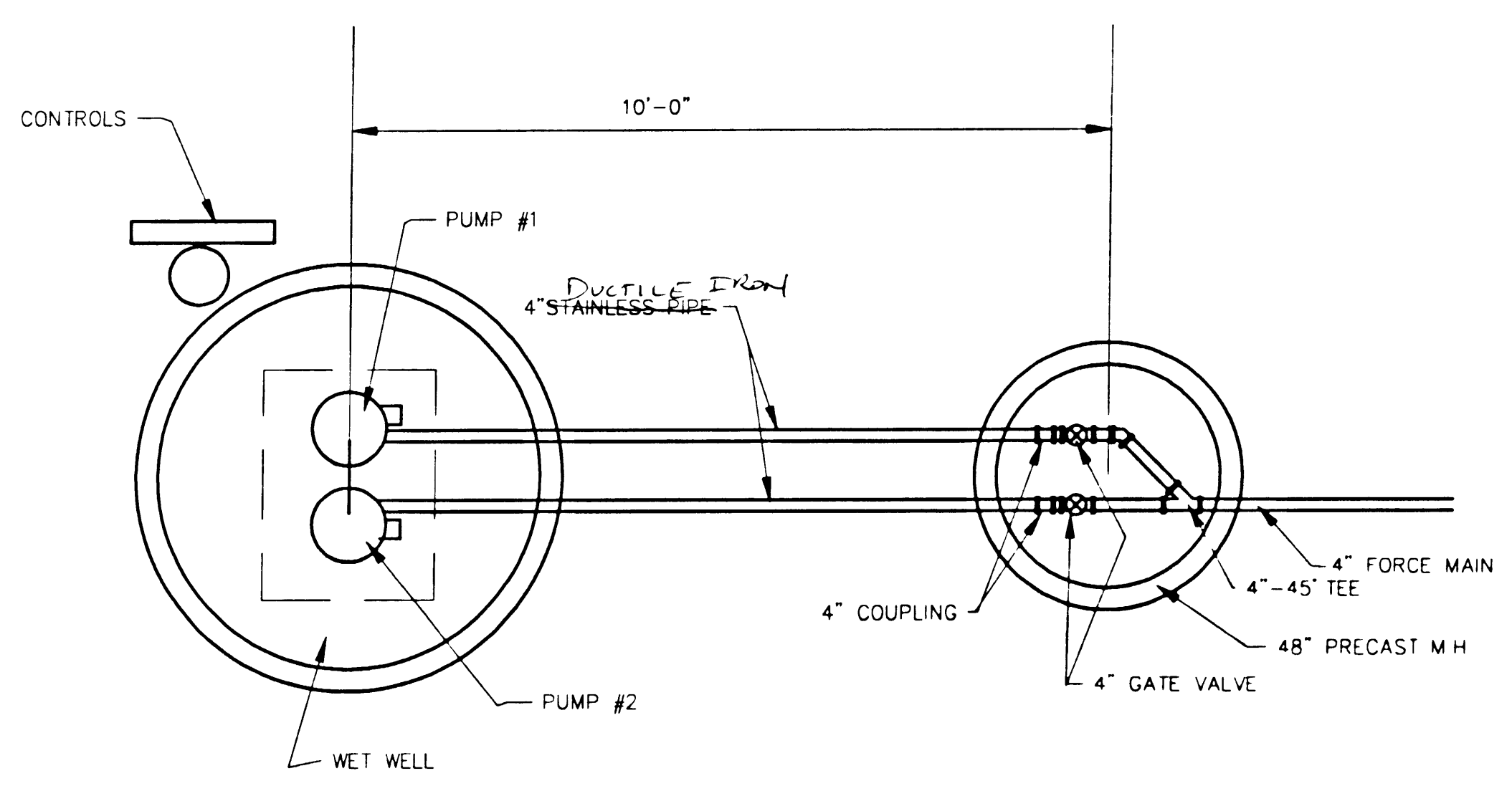
NEMA 4X DUPLEX PANEL w/ALARM LIGHT
 CE DUPLEX ELECTRICAL CONTROL PANEL
 (OUTDOOR USE)
 PER CITY SPEC
 w/TELEMETRY TO WWT PLANT AS PER
 CITY REQUIREMENT & SPEC



HIGH WATER ALARM EL = 621.11
 PUMP #2 START EL = 620.61
 PUMP #1 START EL = 618.56

PUMP #2 OFF EL = 628.59
 PUMP #1 START EL = 616.00
 LOW LEVEL ALARM EL = 615.50
 BOTTOM EL = 614.34

MANHOLE #1 LIFT STATION
 N T S



PLAN VIEW
 N T S

DRY WELL MANHOLE # 14

CRI

C.R.I. ENGINEERING
 Civil Engineering
 Land Planning
 Construction Management
 12 BADGER DRIVE SUPERIOR, WI. 54880
 (715) 394 7338

BEACON KNOLL ESTATES
 LIFT STATION

NO.	DATE	DESCRIPTION	BY

AUG.7.1992 SHEET # 9