

BEACON KNOLL ESTATES, PHASE 3

SUPERIOR, WI.

GENERAL NOTES

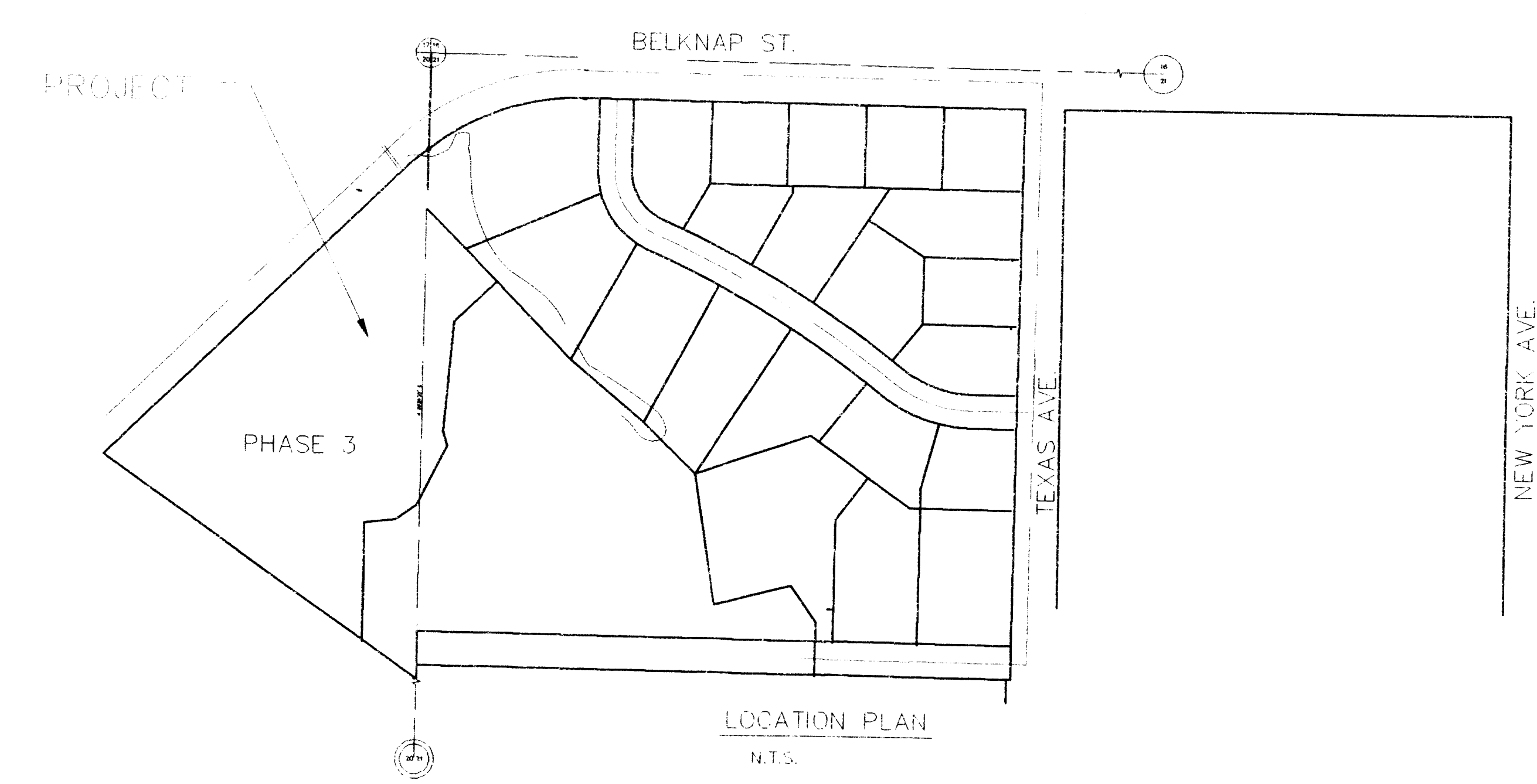
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WISDOT, AND STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN WISCONSIN, 5TH EDITION, WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK, WISCONSIN ADMINISTRATIVE CODE, LATEST EDITION, AND 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.
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- 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. [Signature]*
 P.E. NO. E-17541



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

SHEET	DESCRIPTION
1	TITLE
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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, 10.024 WIS.
 STATE 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.

 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 ESTATES PHASE 3 SUPERIOR, WI.
		DESCRIPTION:	TITLE
DRAWN BY:	CRI	CHECKED BY:	
SCALE:	1"=50'	DATE:	7/19/94
JOB NUMBER:		SHEET:	1

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SUPERIOR, WI.

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715 394 4717

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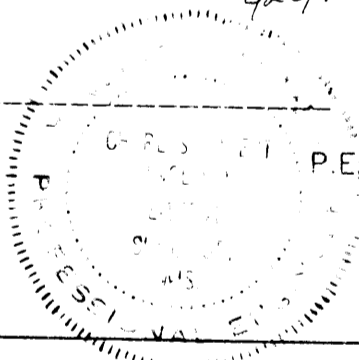
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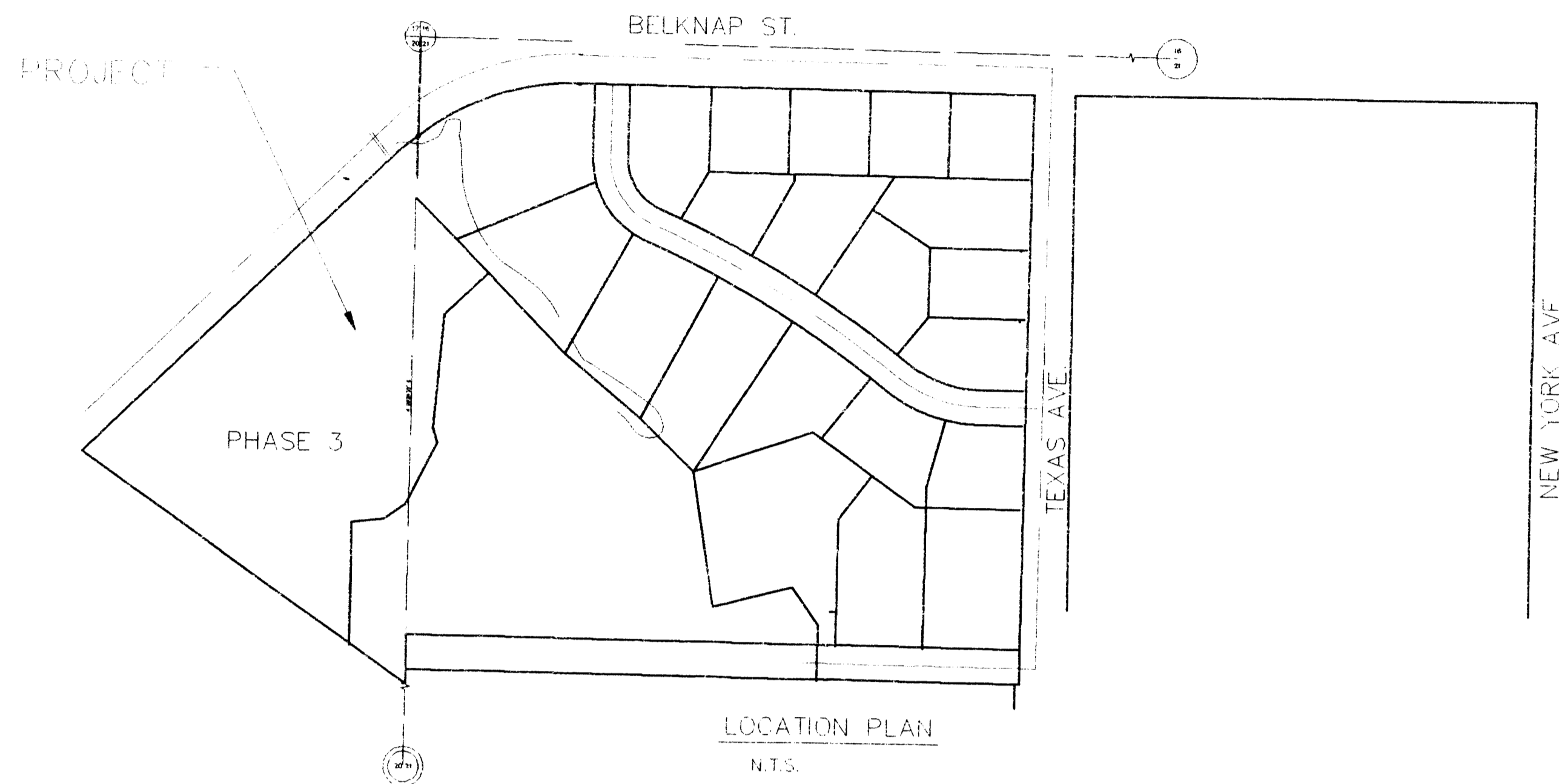
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ENGINEER'S SIGNATURE *C. Pollock* P.E. NO. E-17541



BENCHMARK:
TOP OF ST. MANHOLE AT S.W. CORNER
OF BELKNAP and TEXAS AVE.
ELEV. = 837.15

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



INDEX

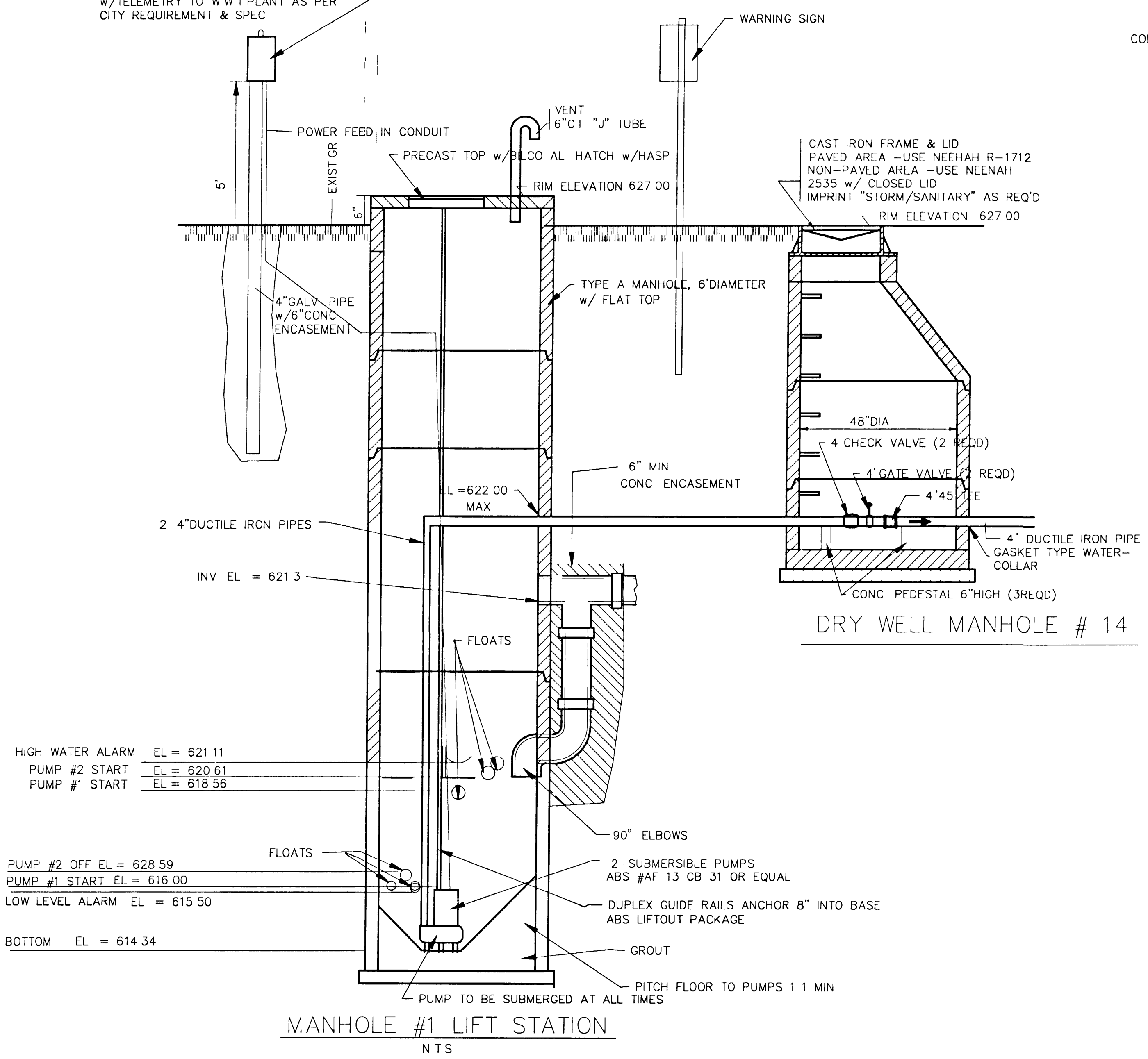
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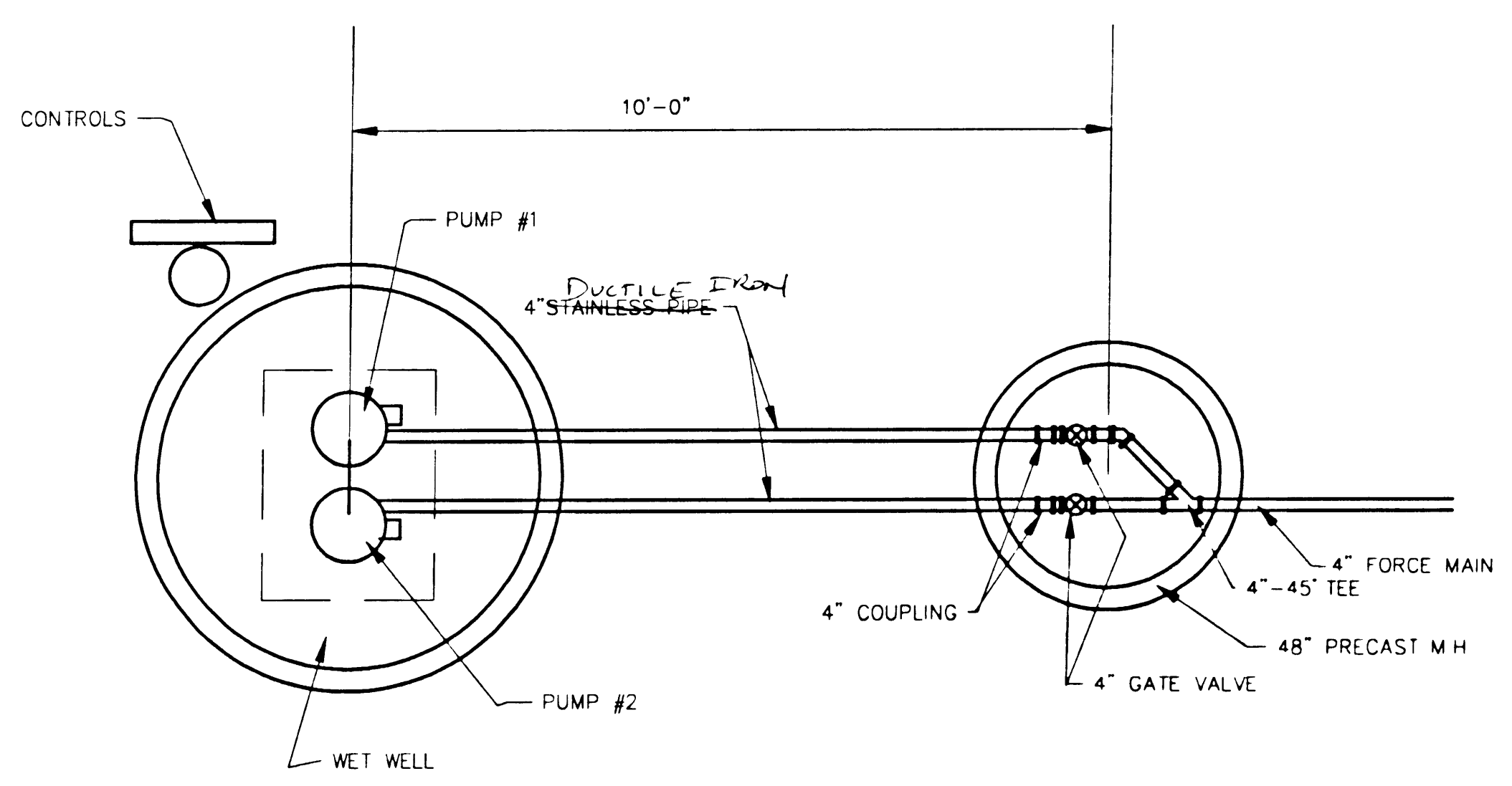
NEMA 4X DUPLEX PANEL w/ALARM LIGHT
 CE DUPLEX ELECTRICAL CONTROL PANEL
 (OUTDOOR USE)
 PER CITY SPEC
 w/TELEMETRY TO WWT PLANT AS PER
 CITY REQUIREMENT & SPEC



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

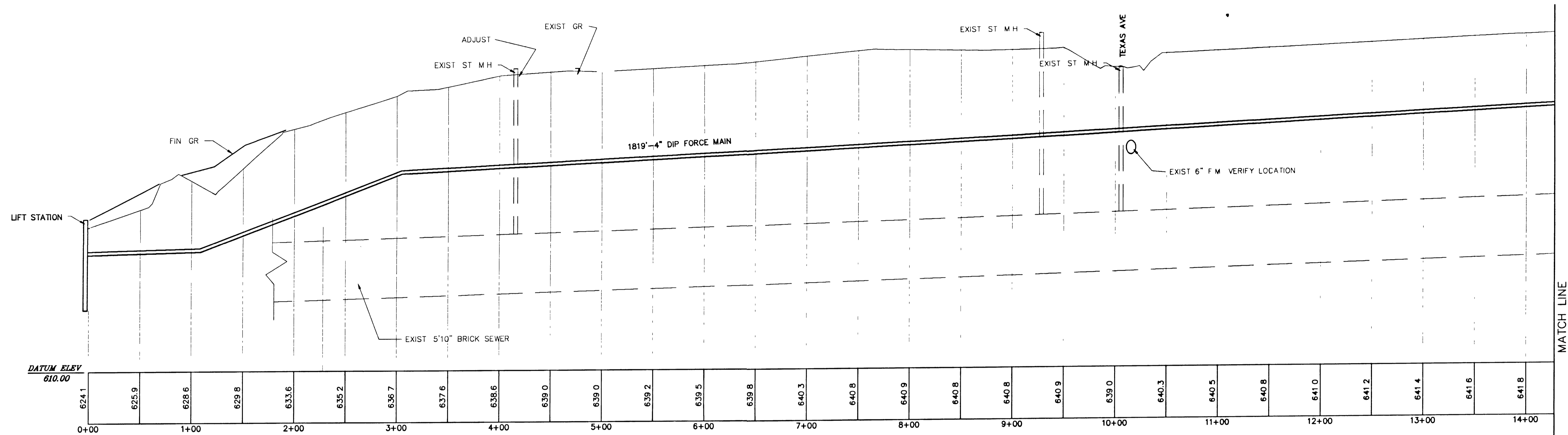
NO.	DATE	DESCRIPTION	BY

CRI

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

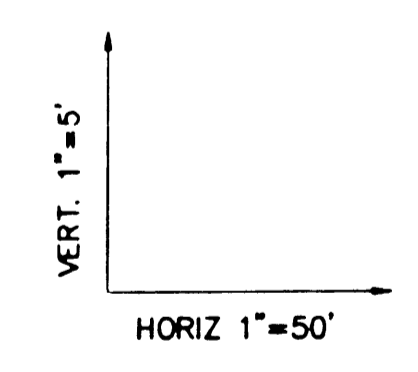
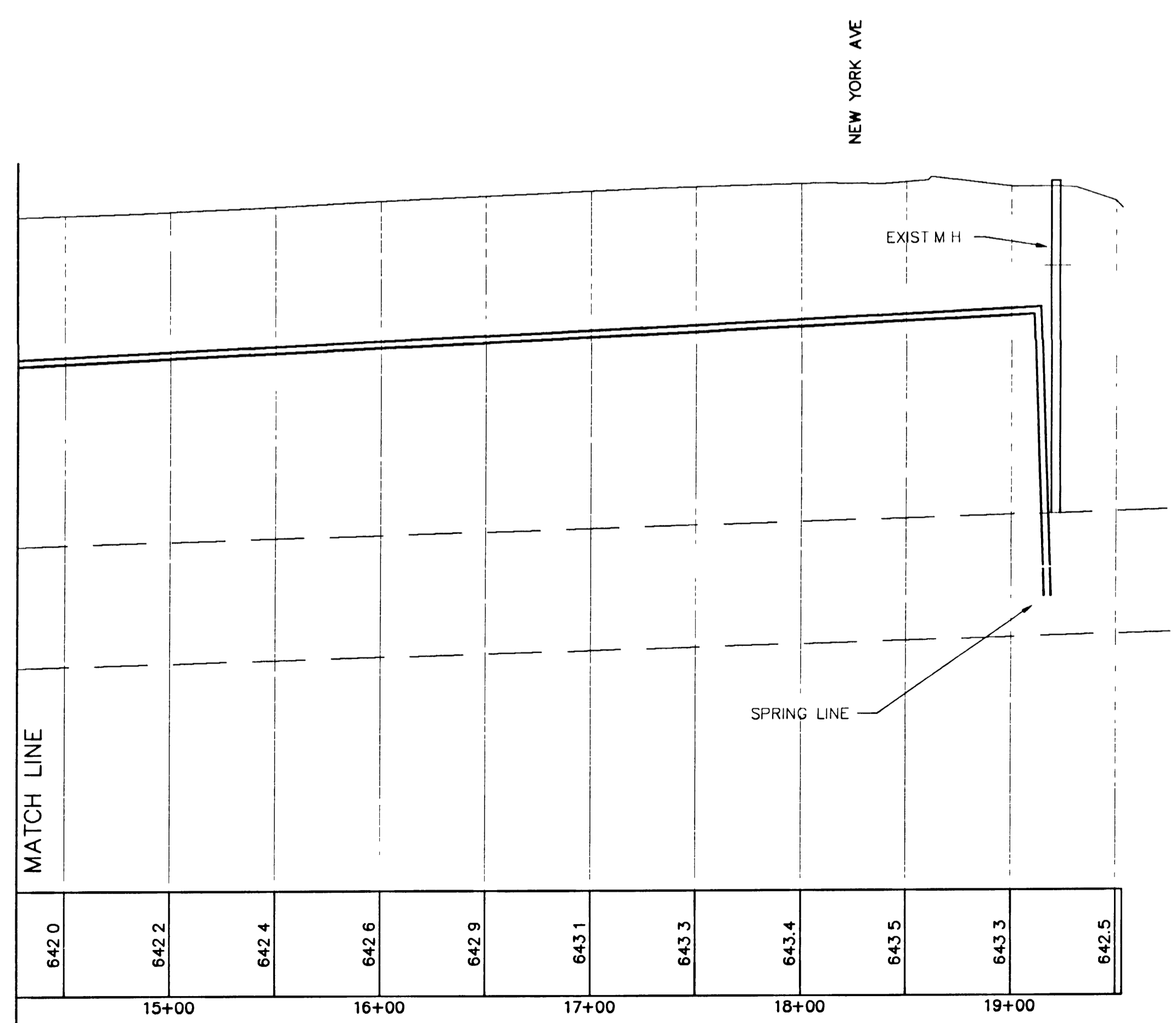
BEACON KNOLL ESTATES
 LIFT STATION


AUG. 7, 1992	SHEET # 9
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NOTE: FORCE SHALL HAVE MINIMUM OF 6' COVER

FORCE MAIN PROFILE



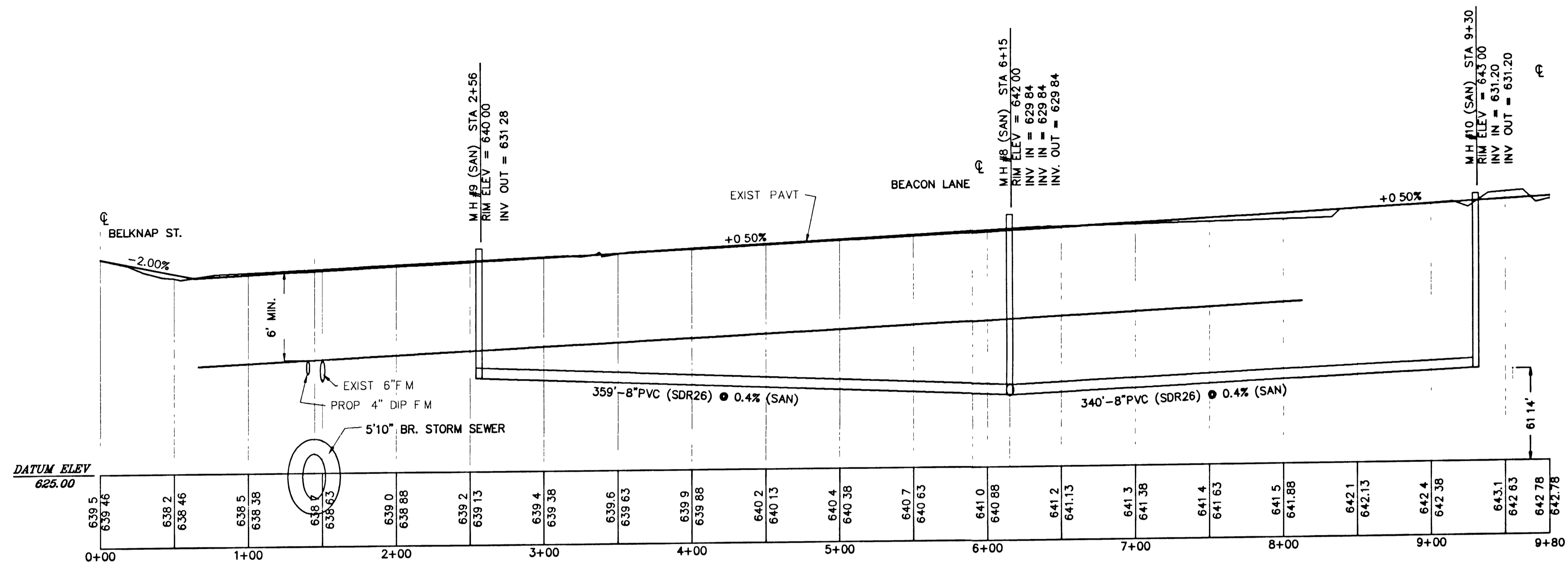


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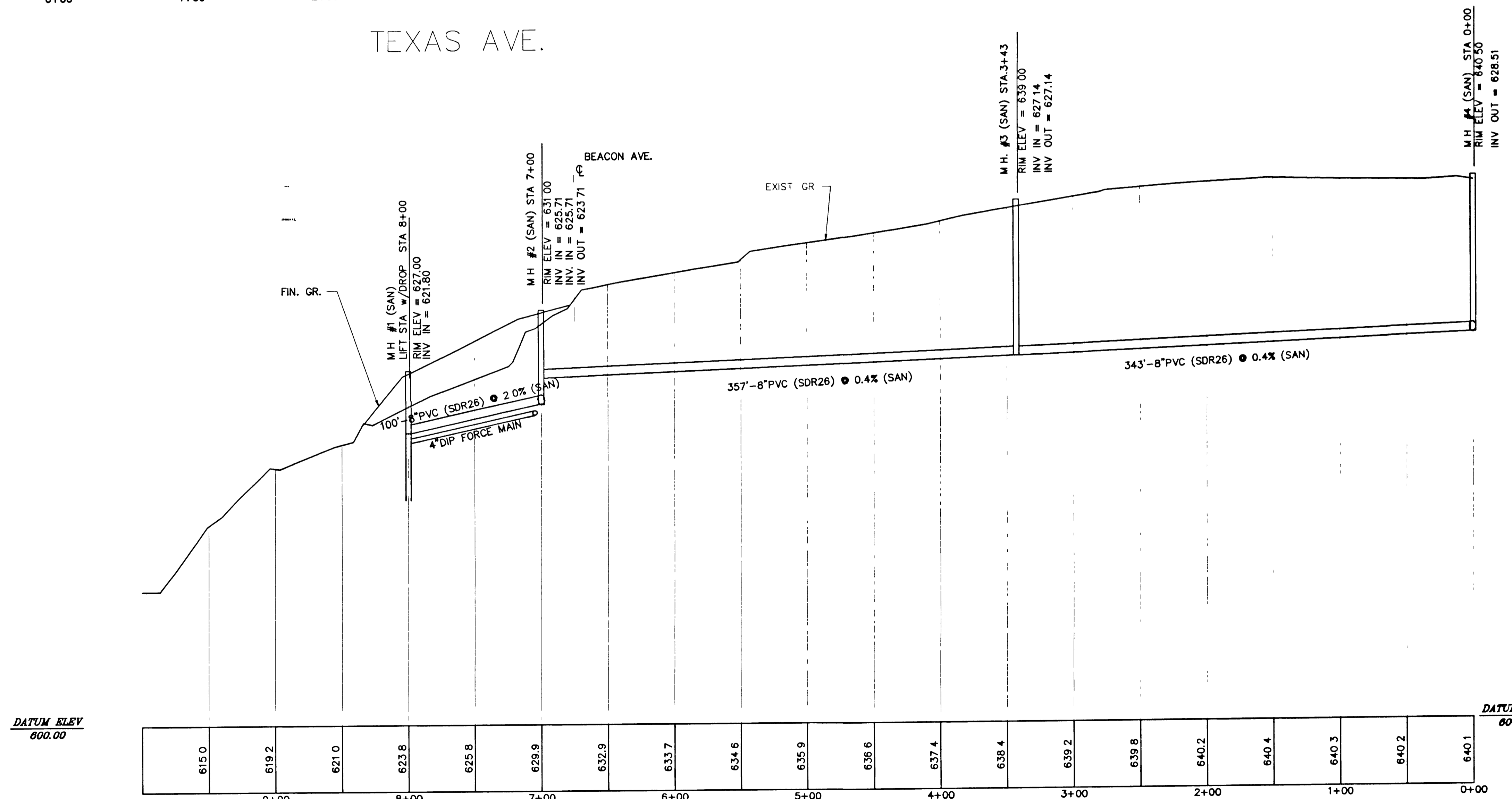
12 BADGER DRIVE SUPERIOR, WI. 54880
(715) 394 7338

**BEACON KNOLL ESTATES
PROFILES**

AUG. 3, 1992
SHEET # 8




TEXAS AVE.



BELKNAP LINE

VERT. 1"=5'
HORIZ. 1"=50'

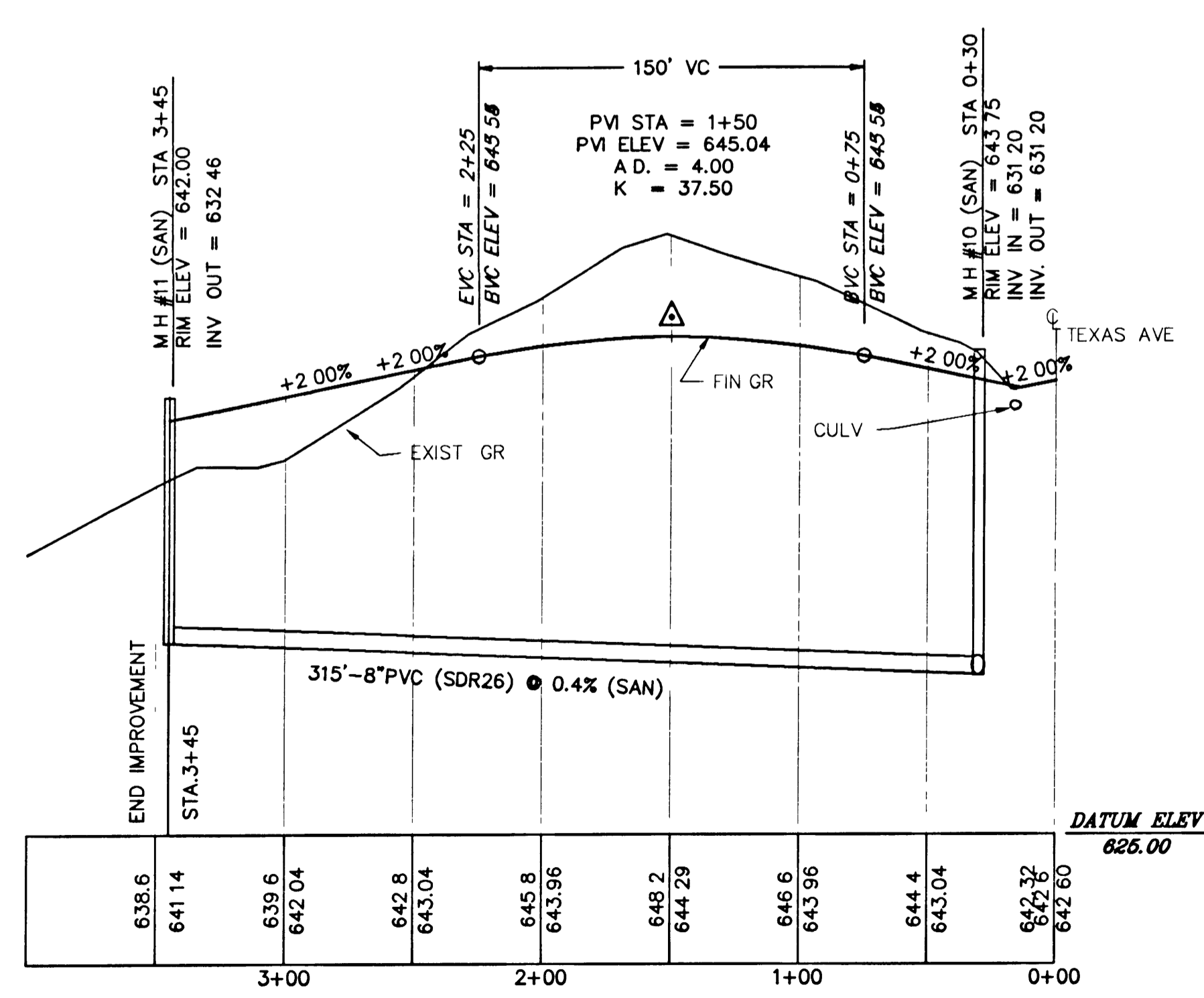
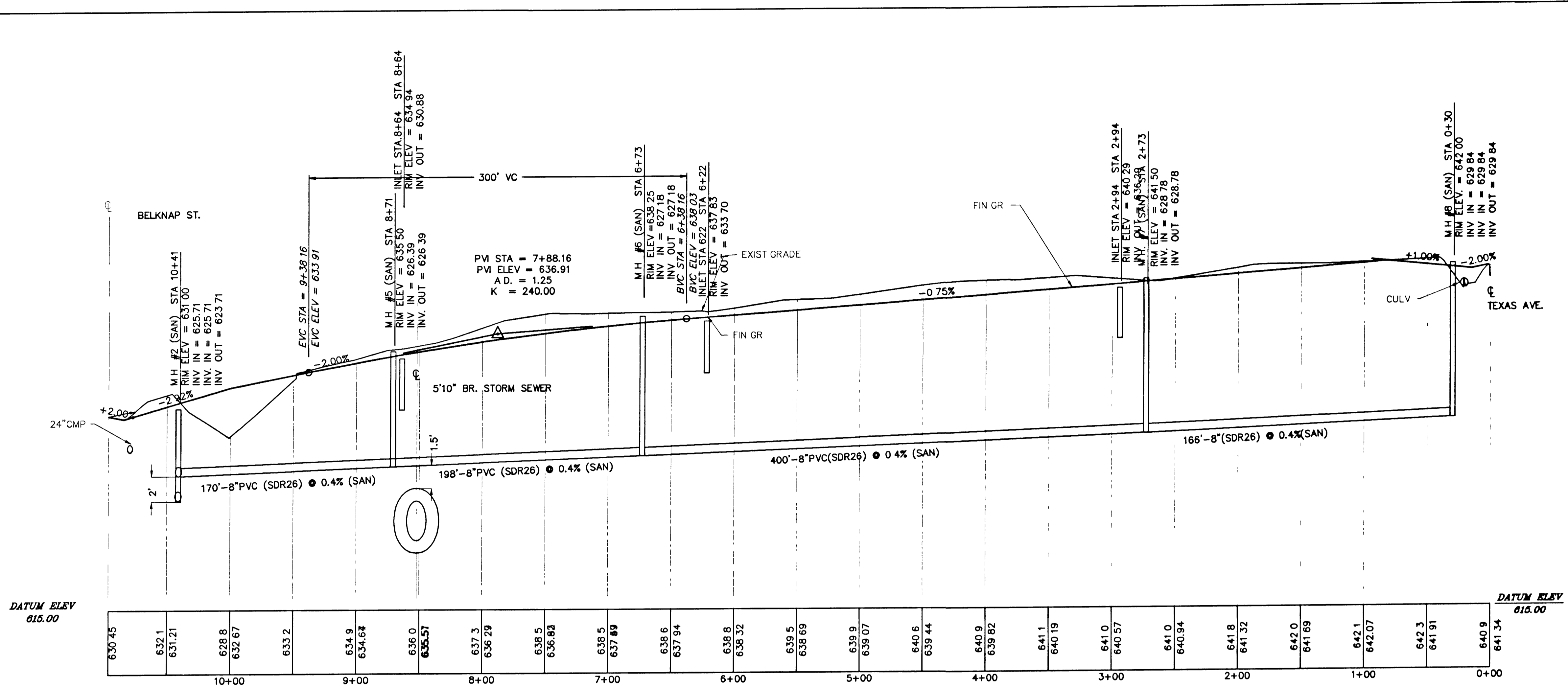


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**BEACON KNOLL ESTATES
PROFILES**

AUG 7, 1992 SHEET #7



VERT. 1"=5'
HORIZ. 1"=50'



C.R.I. ENGINEERING

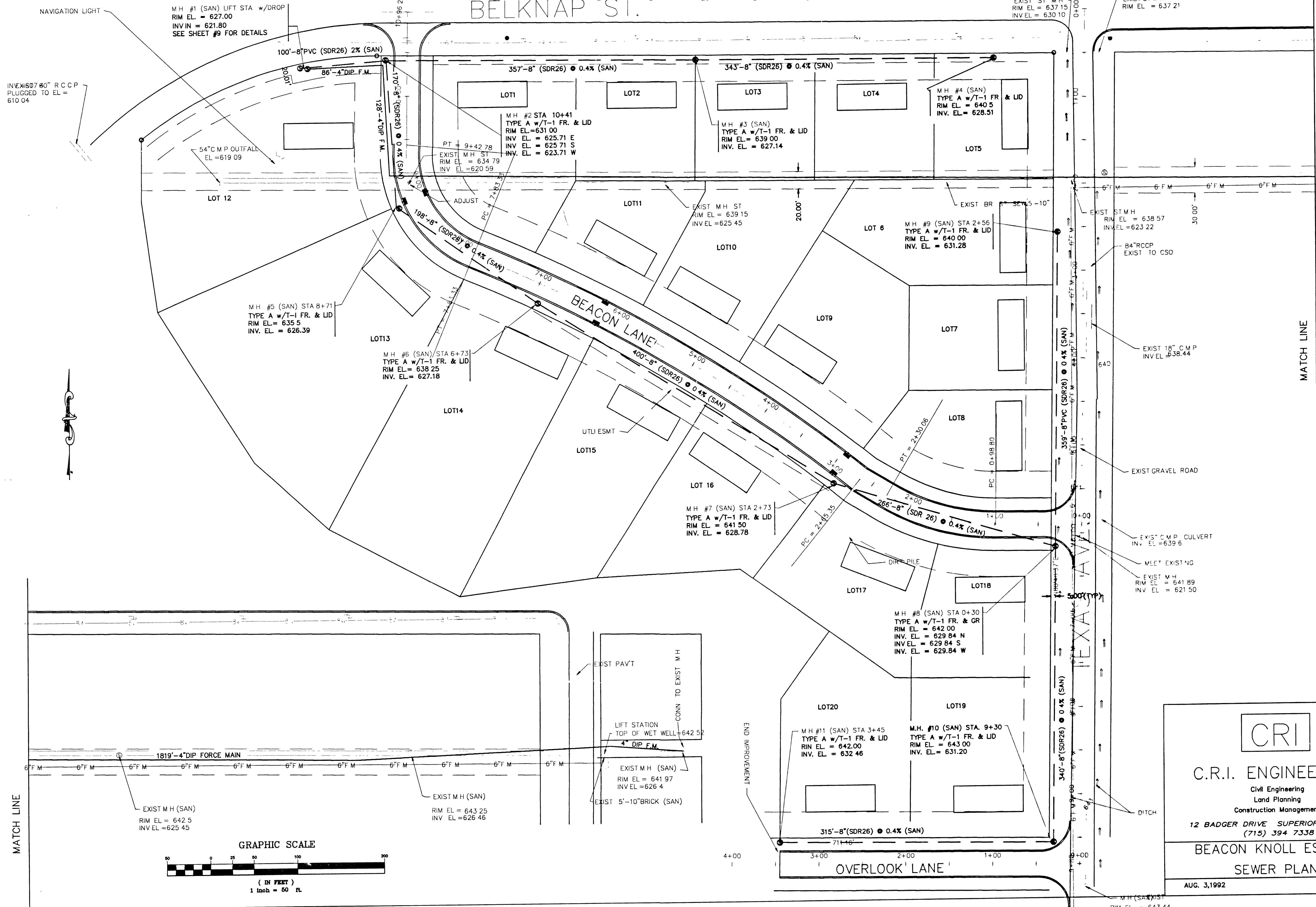
Civil Engineering
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**BEACON KNOLL ESTATES
PROFILES**

AUG 7, 1992
SHEET #6

BELKNAP ST.



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

EXIST ST M.H.
RIM EL. = 637.15
INV. EL. = 630.10

IN. EX. 60\"/>

LOT 12

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

EXIST ST M.H.
RIM EL. = 638.57
INV. EL. = 623.22

LOT 14

UTIL ESMT

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

EXIST M.H.
RIM EL. = 641.89
INV. EL. = 621.50

EXIST PAVT
LIFT STATION
TOP OF WET WELL = 642.52
4\"/>

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

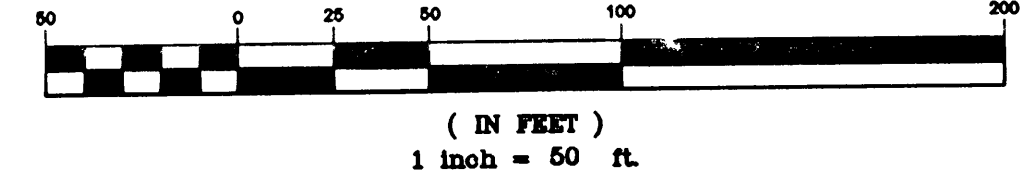
M.H. #10 (SAN) STA. 9+30
TYPE A w/T-1 FR. & LID
RIM EL. = 643.00
INV. EL. = 631.20


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

MATCH LINE

MATCH LINE

GRAPHIC SCALE




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

20 21

M.H. #12 (SAN) (EXIST.)
TYPE A w/T-1 FR. & LID
RIM ELEV. = 618.33
INV. IN = 611.28

EXIST. 60" R.C.C.P.
INV. = 607.4
PLUGGED TO EL. =
610.04

LIFT STATION (EXIST.)
M.H. #1 (SAN) STA. -638.83
RIM ELEV. = 618.33
INV. IN = 611.28

ST. LOUIS RIVER

BEACON KNOLLS PHASE 1

BEACON LAKE

WETLAND
REV. = 80.7

S. 54°52'28" E
508.10'

SECTION 20
SECTION 21

CRI ENGINEERING
Civil Engineering
Land Planning
Construction Management
118 BADGER DRIVE SUPERIOR, WI 54990
715.334.7338 FAX (715) 384.7333

JOB NAME: BEACON KNOLLS ESTATES PHASE 3
DRAWN BY: C.P.I. CHECKED BY:
SCALE: 1" = 50'
DATE: 7/18/94
JOB NUMBER SHEET

NO.	DATE	DESCRIPTION	BY

DESCRIPTION: EXIST. TOPO. SHEET 2

20 21

M.H. #12 (SAN) (EXIST.)
TYPE A w/T-1 FR. & LID
RIM ELEV. = 618.33
INV. IN = 611.28

EXIST 60" R.C.C.P.
INV = 607.4
PLUGGED TO EL. =
610.04

LIFT STATION (EXIST)
M.H. #1 (SAN) STA. -638.83
RIM ELEV. = 618.33
INV. IN = 611.28

ST. LOUIS RIVER

BEACON KNOLLS PHASE 1

BEACON LANE

WETLAND
Elev = 610.7

SECTION 28
SECTION 29

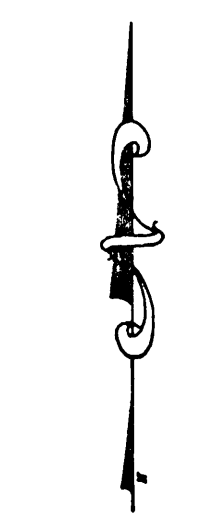
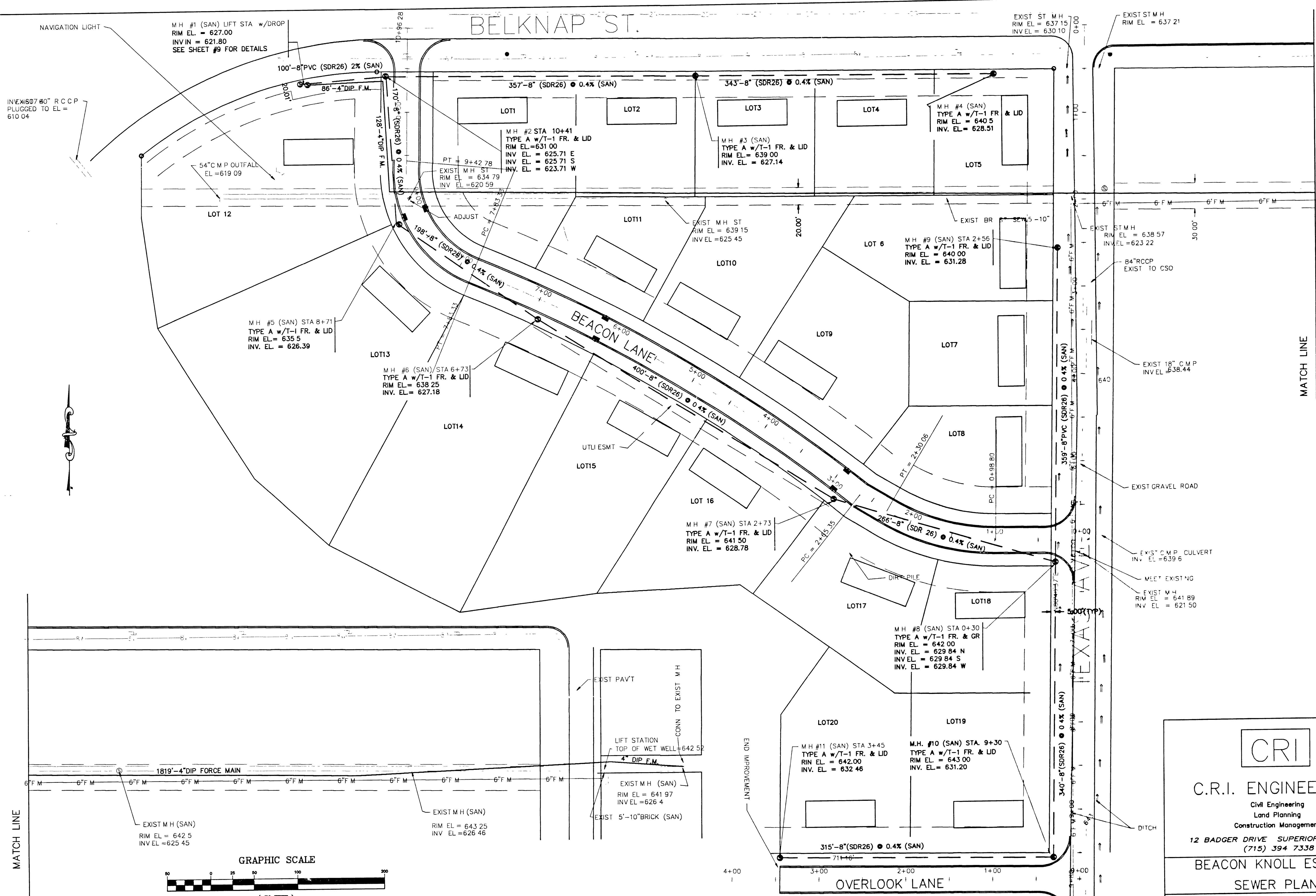


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Construction Management
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(715) 394 7338 FAX (715) 394 7333

JOB NAME:	BEACON KNOLLS ESTATES PHASE 3	DRAWN BY:	C.R.I.	CHECKED BY:	
SCALE:	1" = 50'	DATE:	7/18/94	JOB NUMBER:	
DESCRIPTION:	EXIST. TOPO	SHEET:	2		

NO.	DATE	DESCRIPTION	BY



MATCH LINE

1819'-4" DIP FORCE MAIN

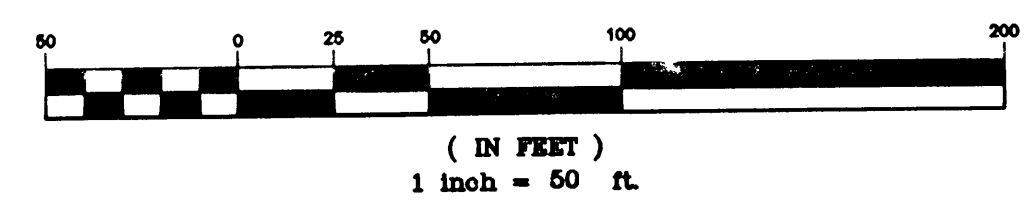
EXIST M.H. (SAN)
RIM EL = 642.5
INV EL = 625.45

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

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

EXIST 5'-10" BRICK (SAN)

GRAPHIC SCALE



CRI

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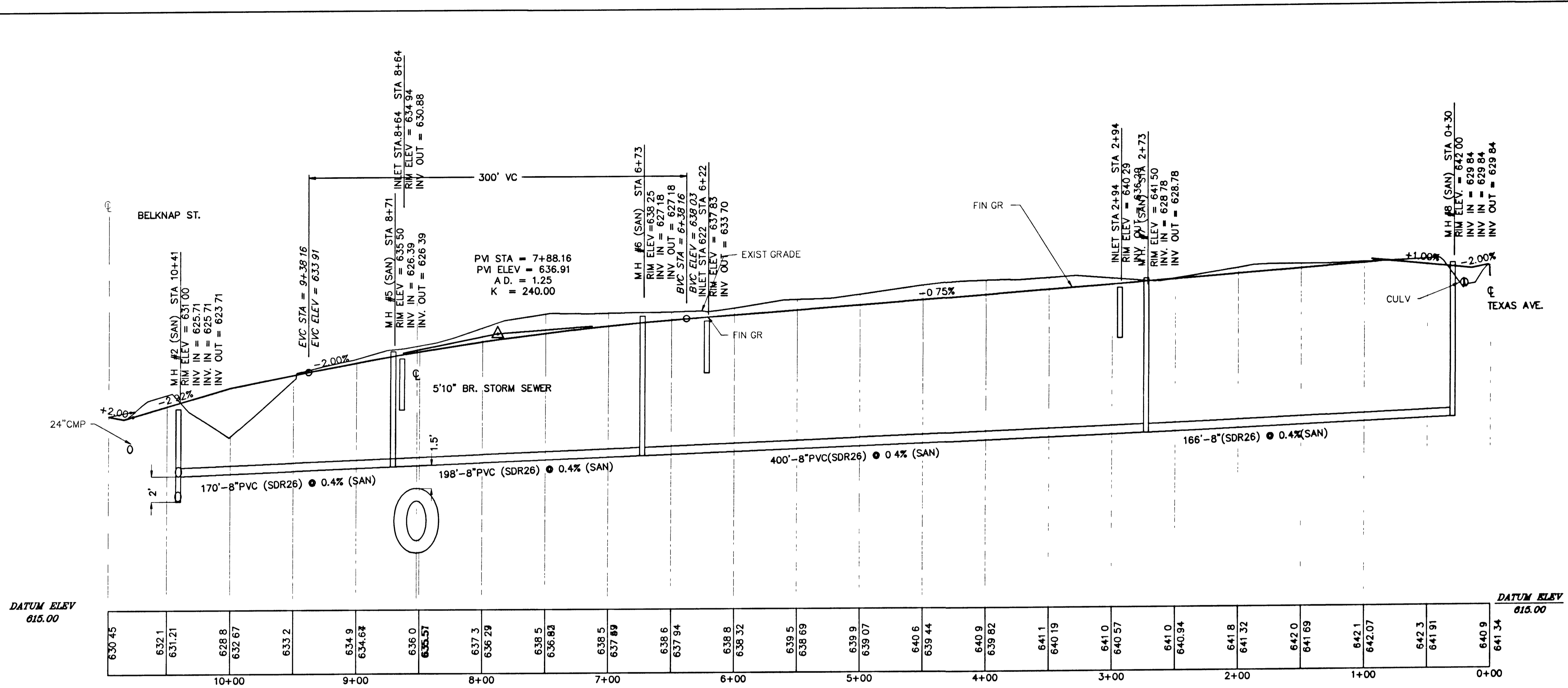
12 BADGER DRIVE SUPERIOR, W.I. 54880
(715) 394 7338

BEACON KNOLL ESTATES

SEWER PLAN

AUG. 3, 1992 SHEET # 4

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

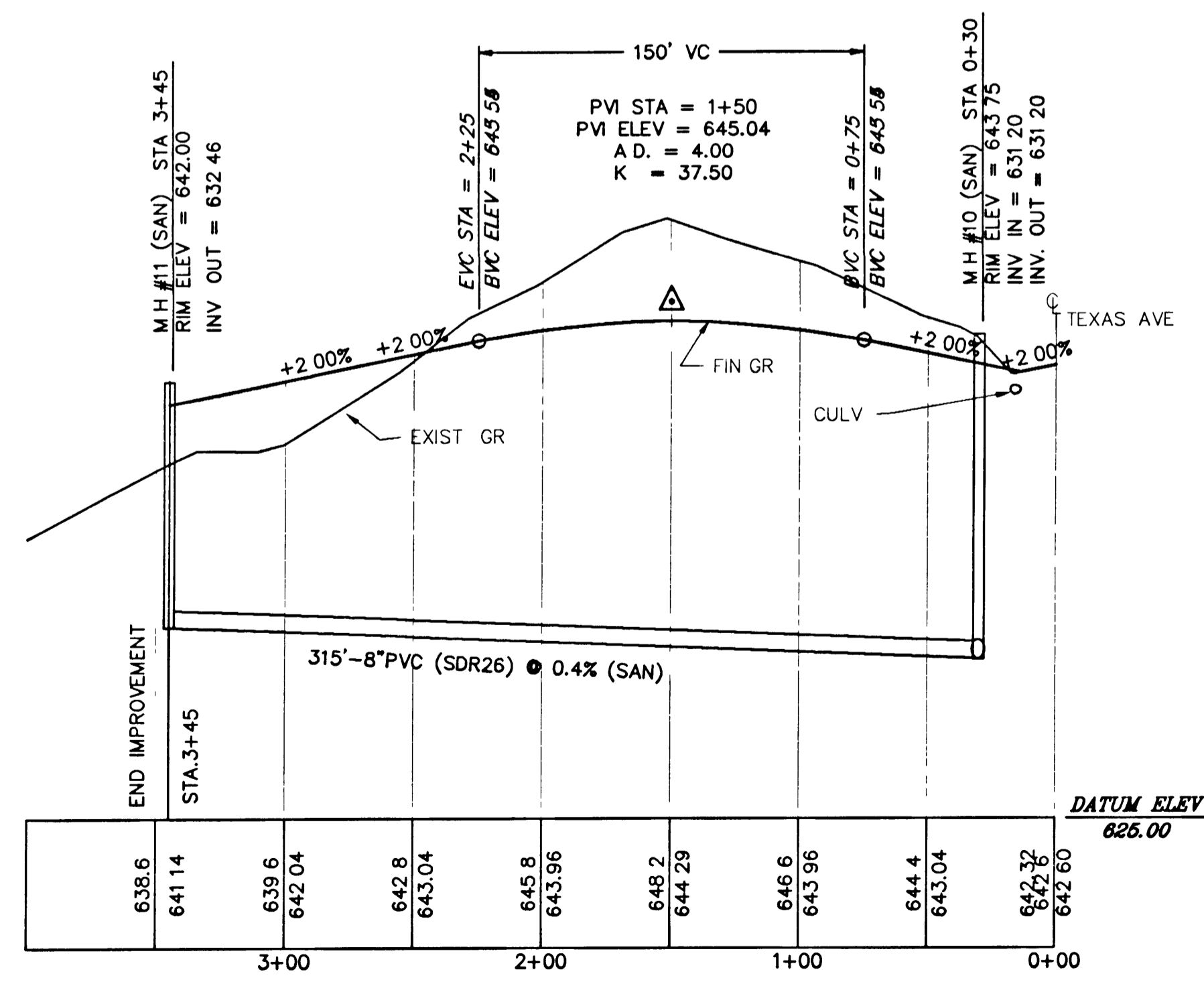


DATUM ELEV
615.00

DATUM ELEV
615.00

630.75	632.1	631.21	628.8	632.67	633.2	634.9	634.6	636.0	635.57	637.3	636.29	638.5	636.83	638.5	637.89	638.6	637.94	638.8	638.32	639.5	638.69	639.9	639.07	640.6	639.44	640.9	639.82	641.1	640.19	641.0	640.57	641.0	640.94	641.8	641.32	642.0	641.69	642.1	642.07	642.3	641.91	640.9	641.34			

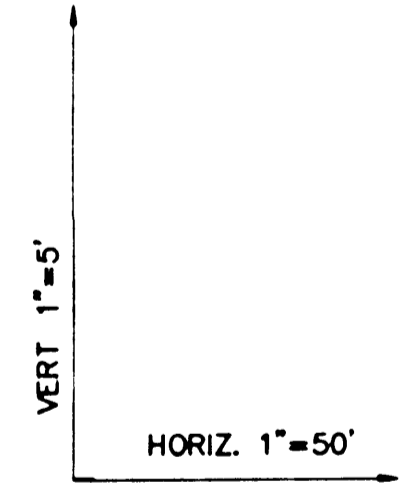
BEACON LANE




DATUM ELEV
625.00

638.6	641.14	639.6	642.04	642.8	643.04	645.8	643.96	648.2	644.29	648.6	643.96	644.4	643.04	642.32	642.60

OVERLOOK LANE



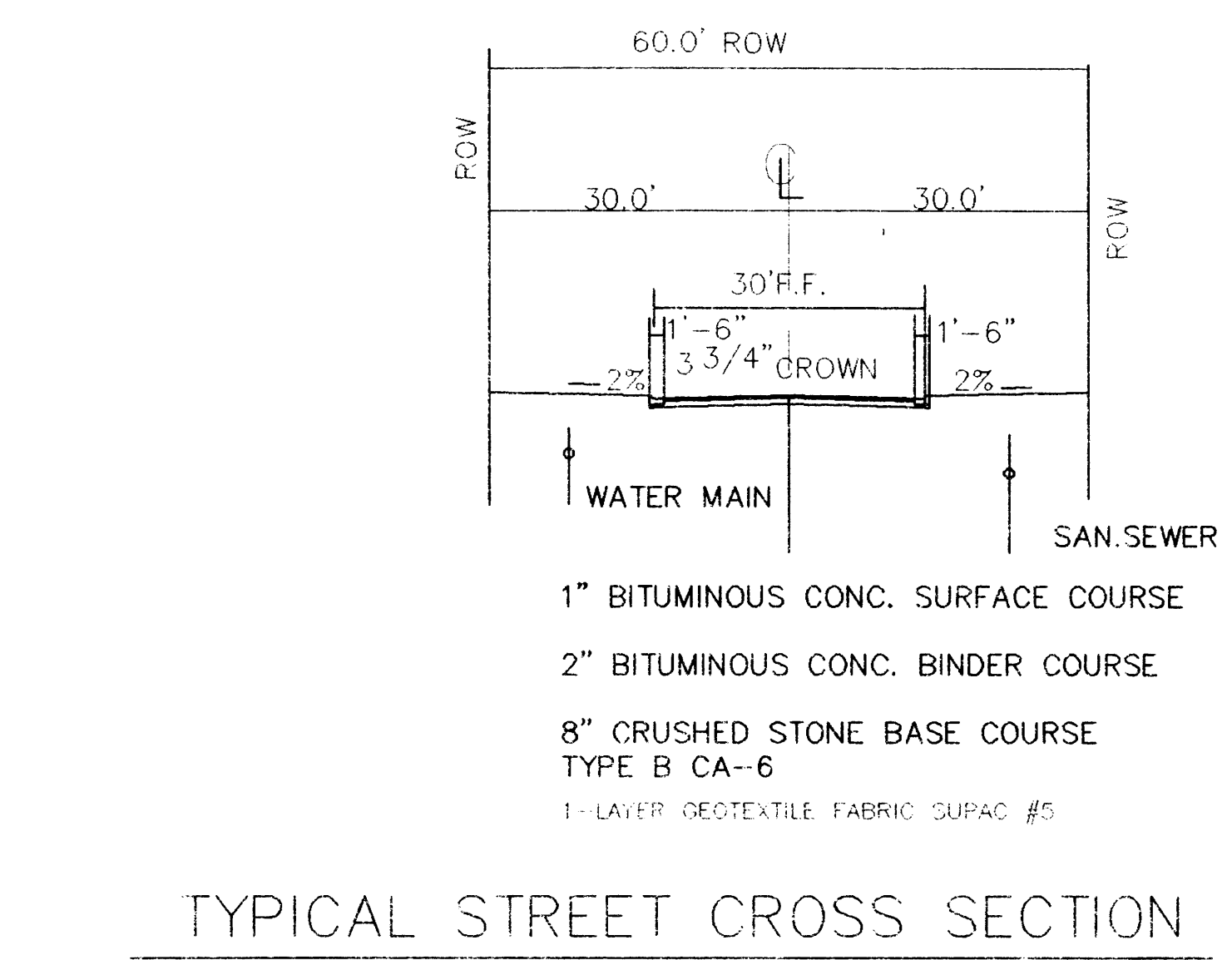
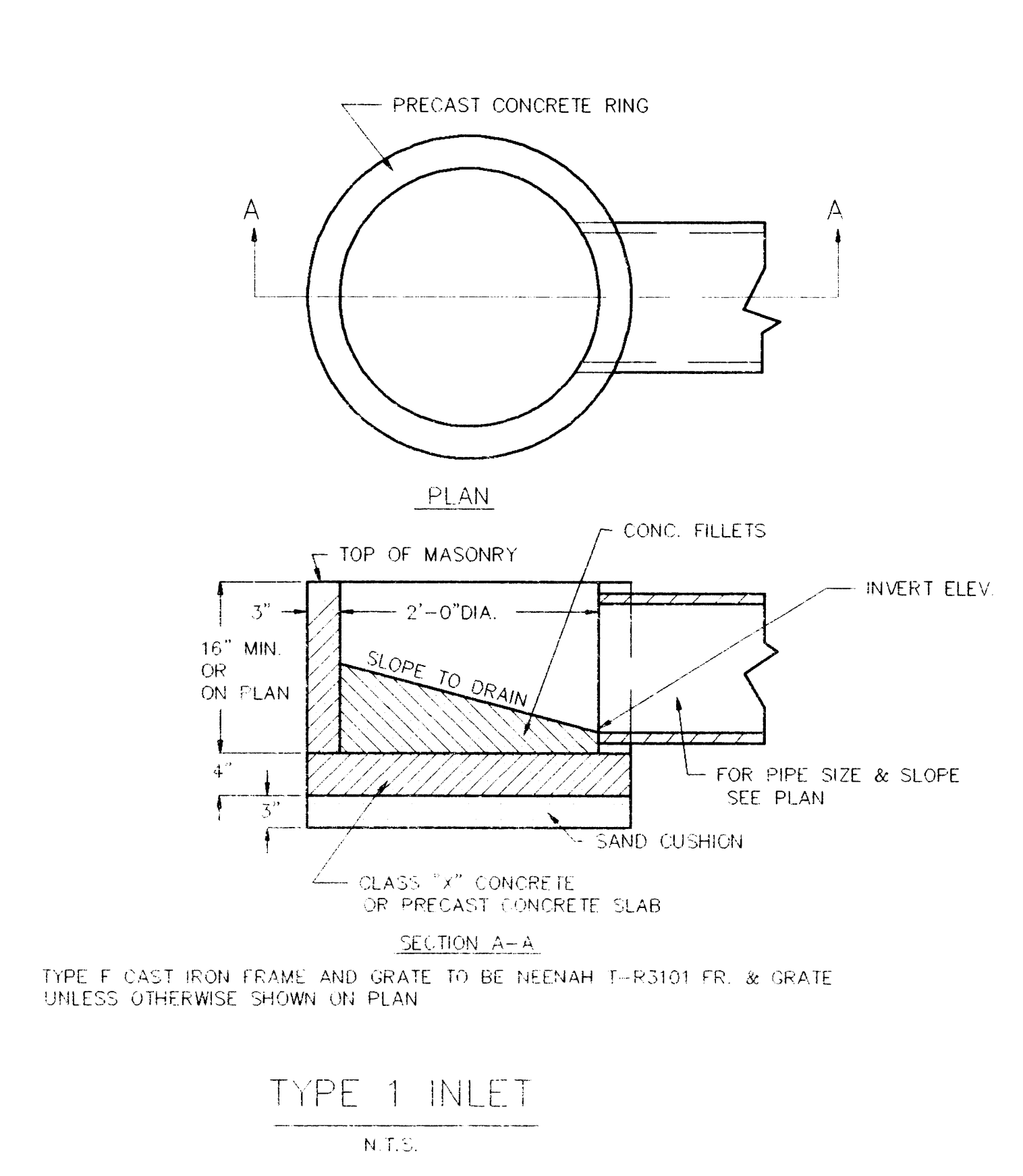
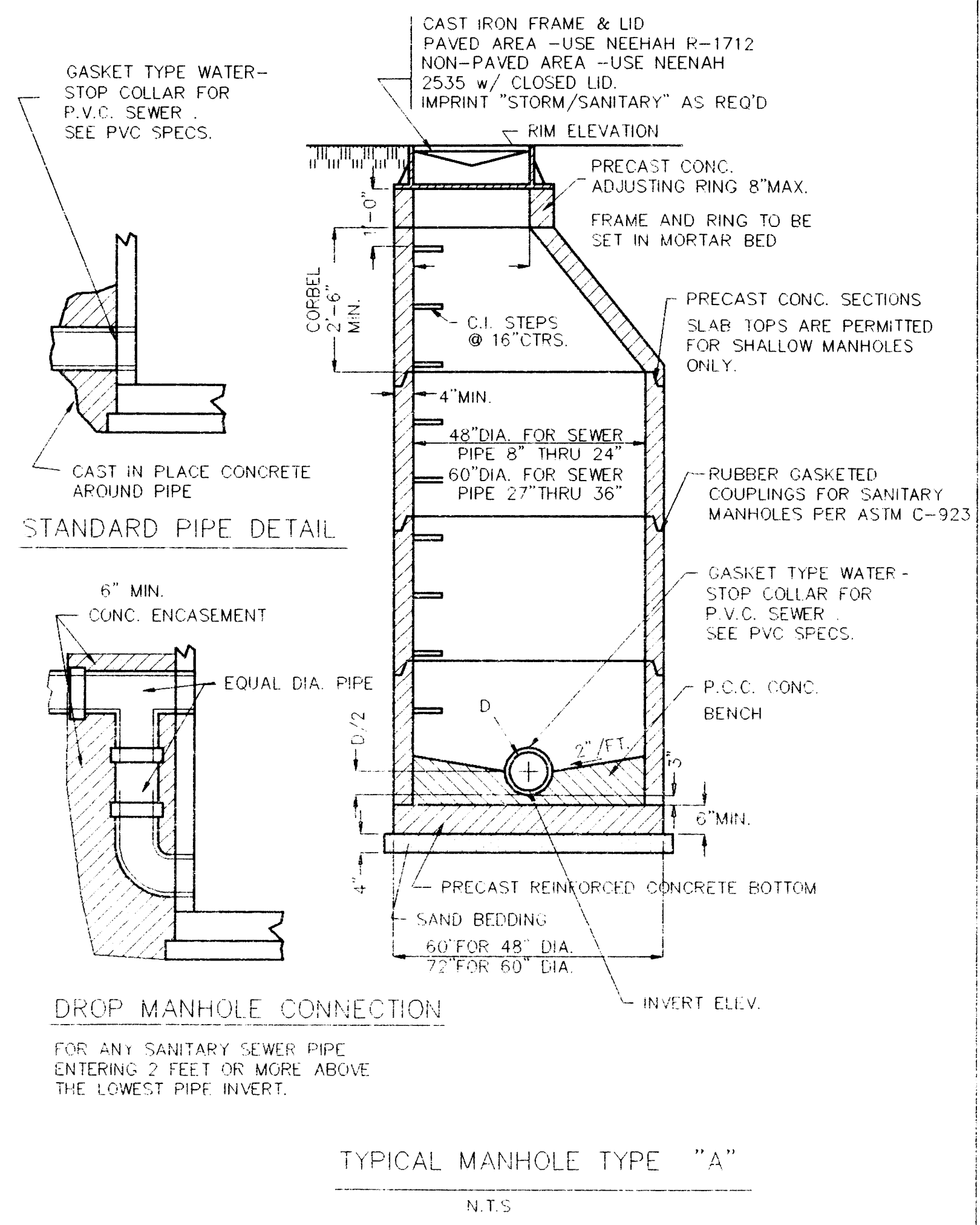


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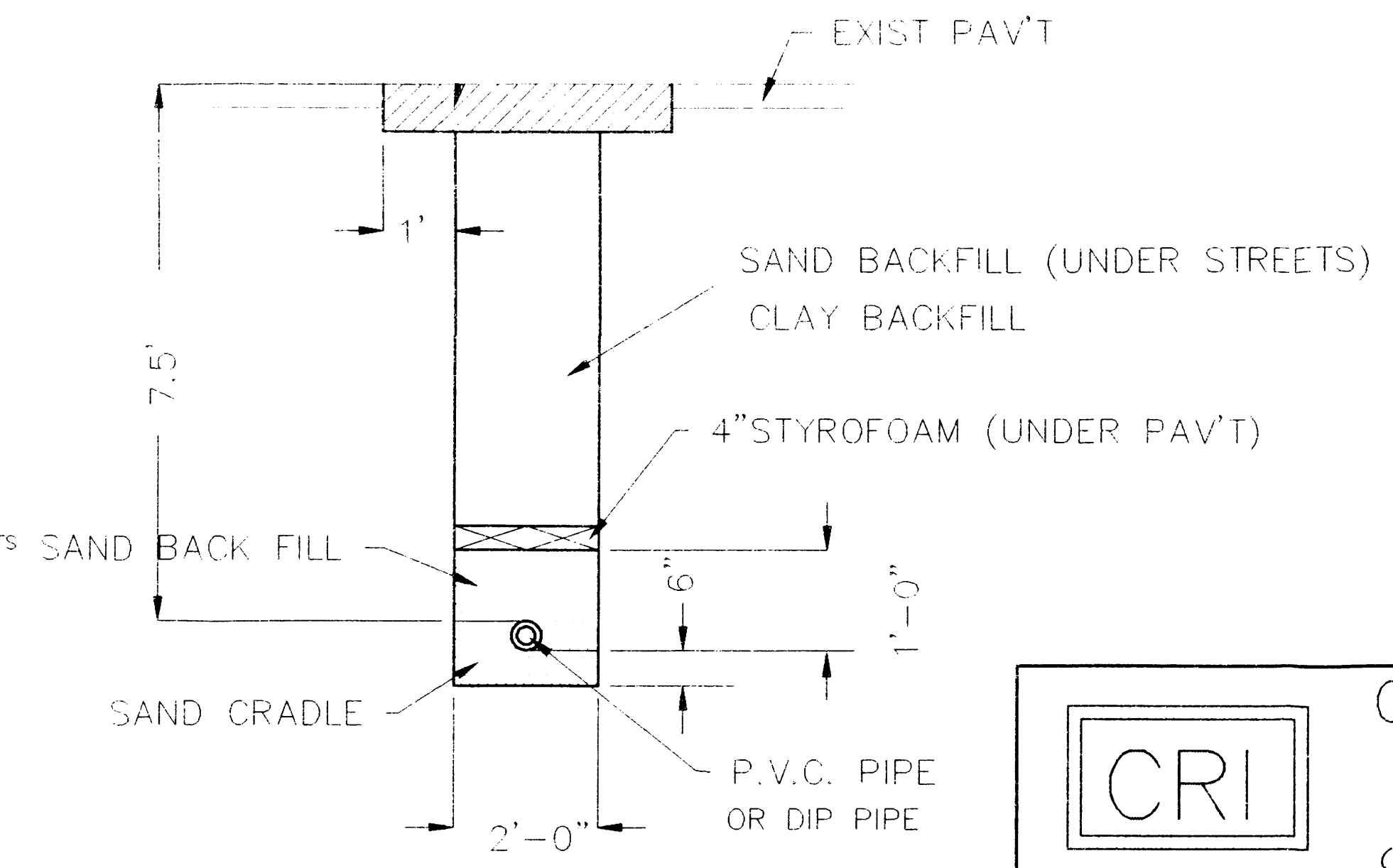
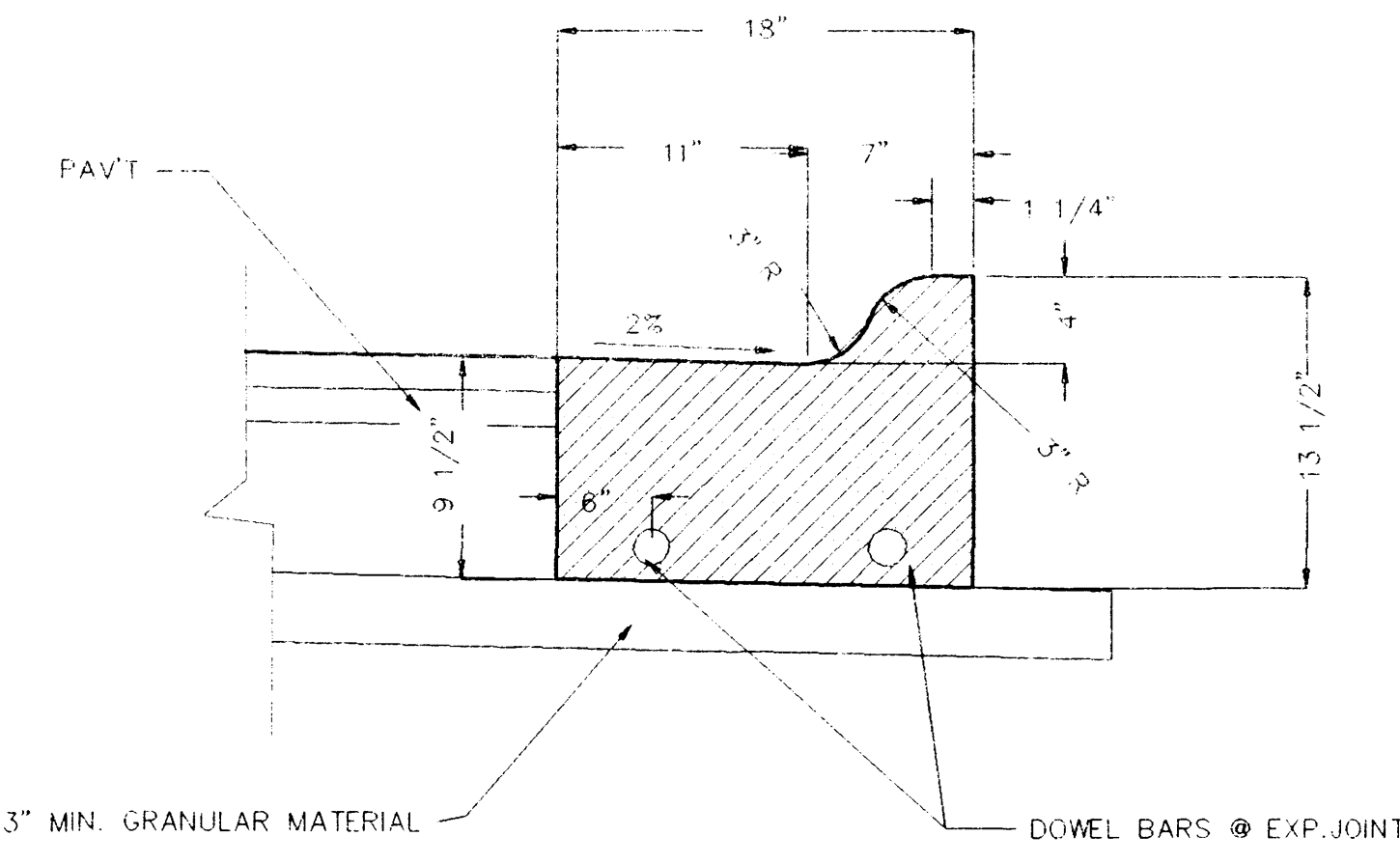
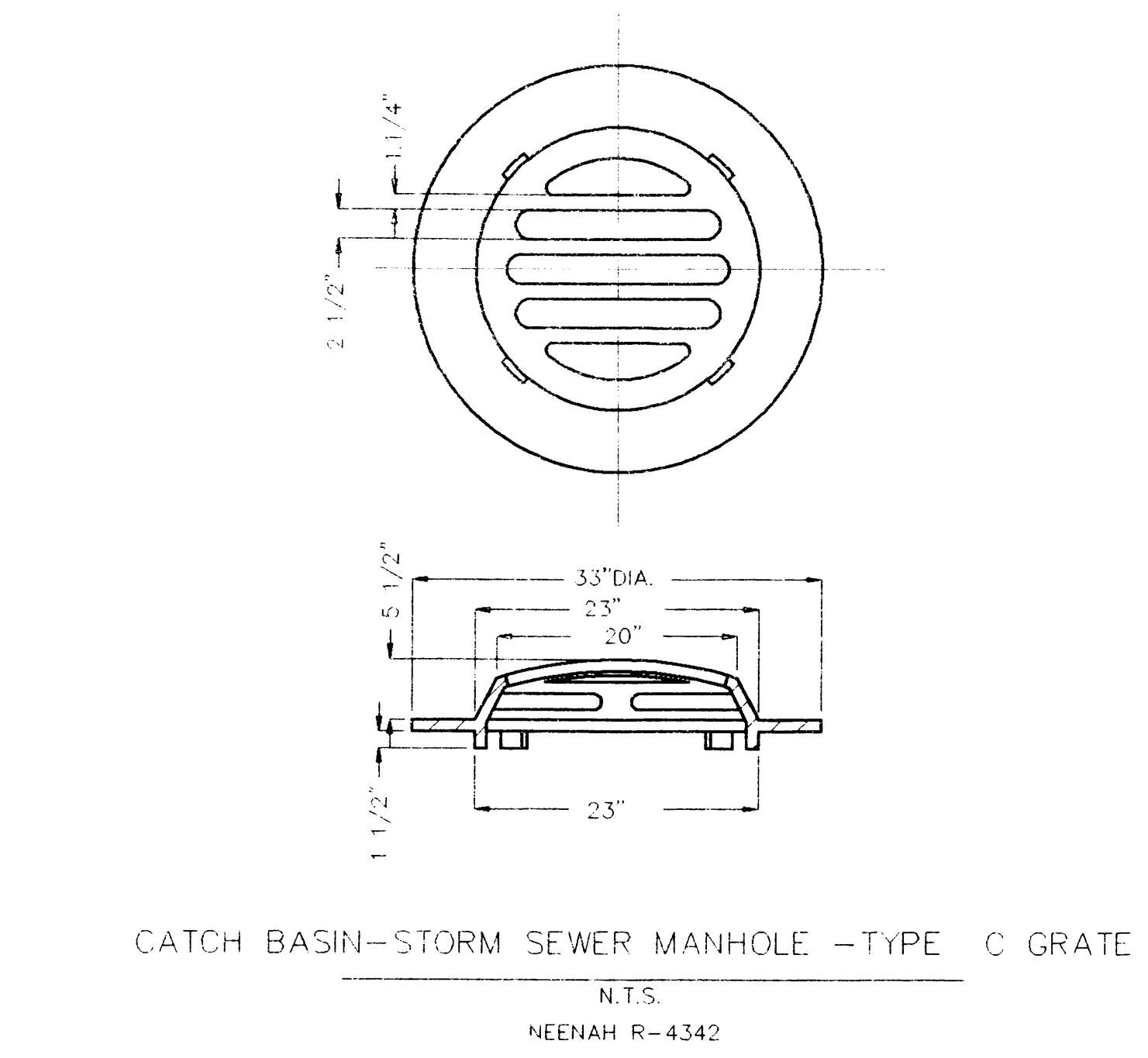
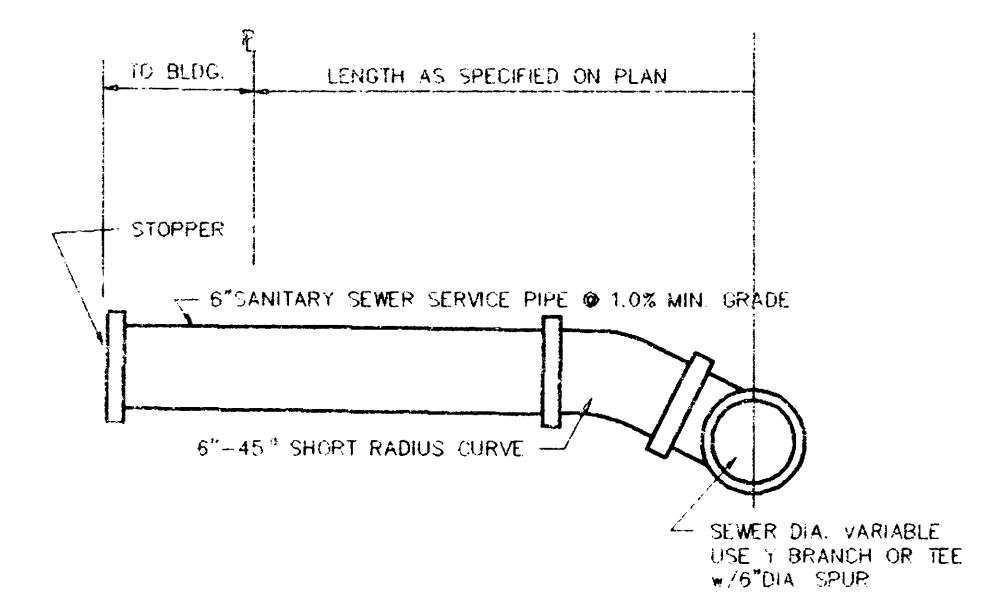
**BEACON KNOLL ESTATES
PROFILES**

AUG 7, 1992
SHEET #6

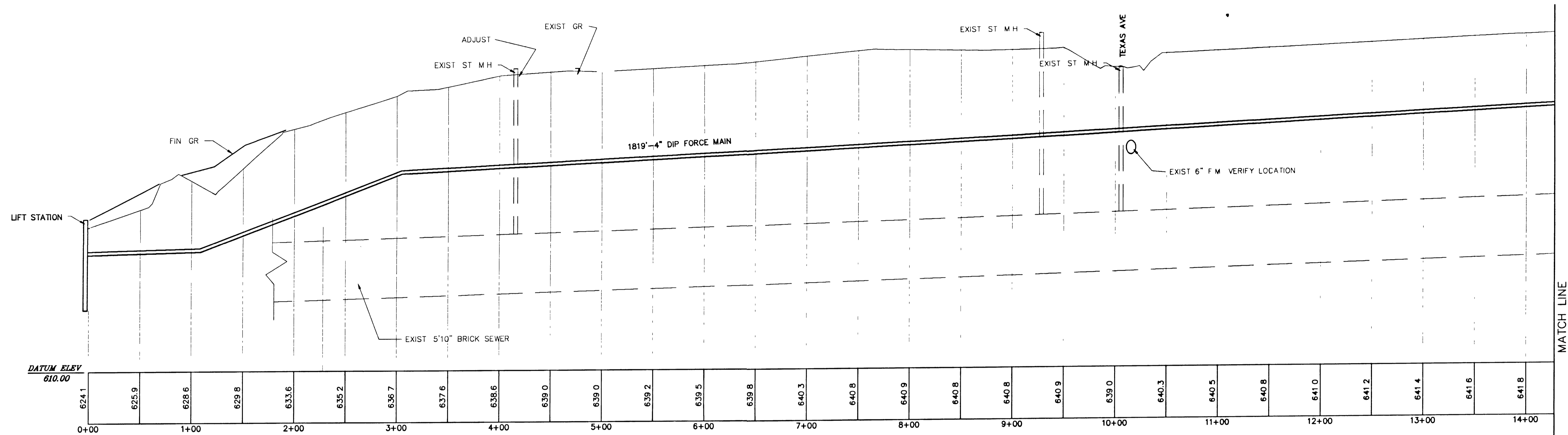


SURFACE COURSE SHALL BE INSTALLED AT LEAST 6 MONTHS AFTER BINDER COURSE OR DURING THE FOLLOWING CONSTRUCTION SEASON.

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

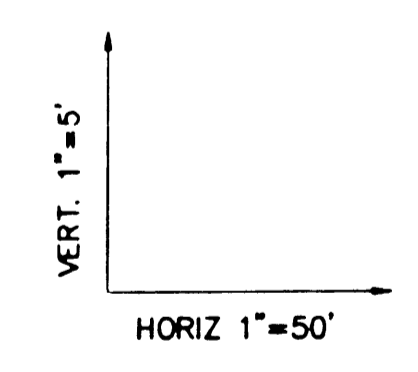
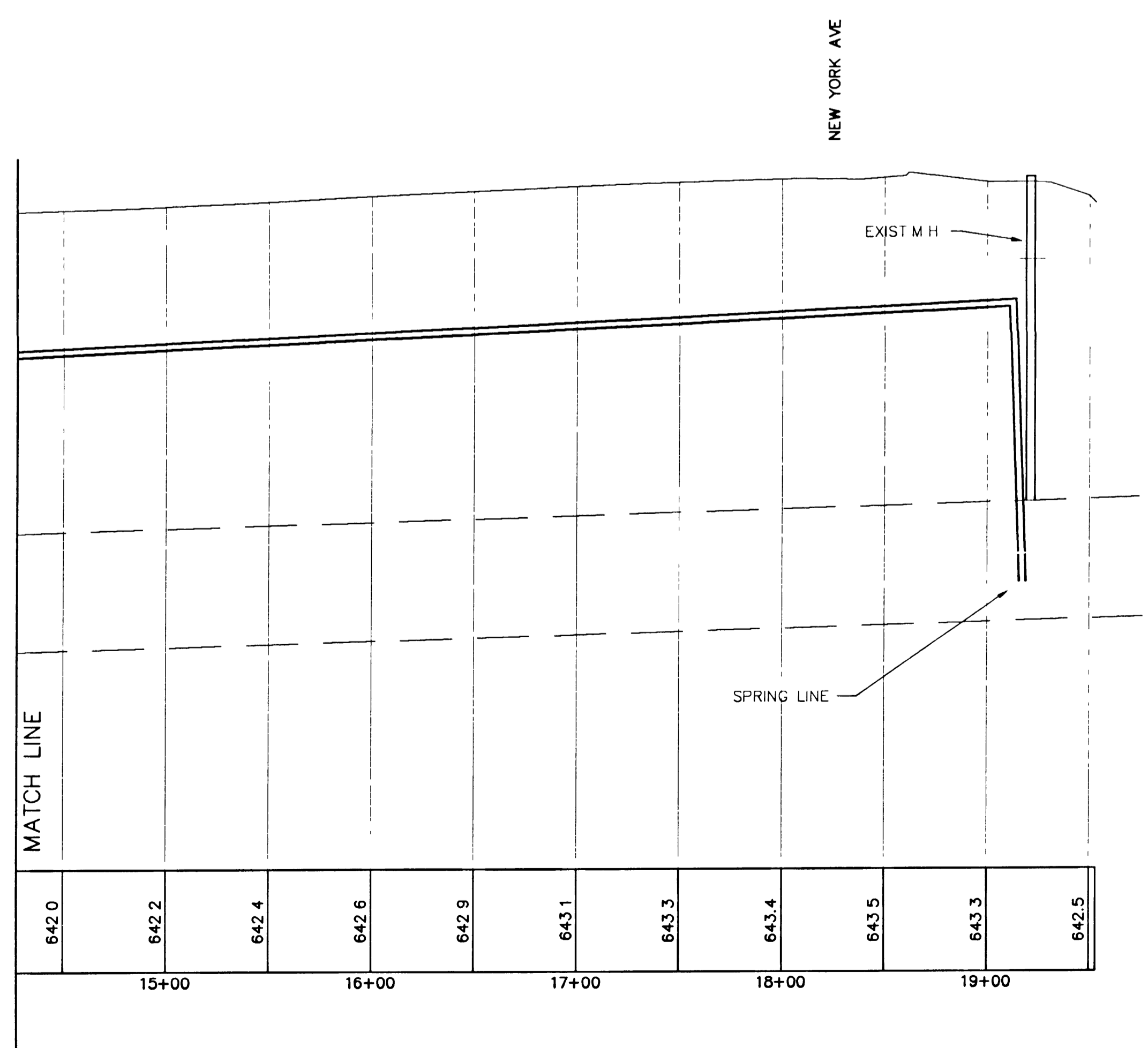



CRI ENGINEERING		
Civil Engineering Land Planning Construction Management		
12 BADGER DRIVE SUPERIOR, WI. 54880 (715) 394 7338 FAX (715) 394 7233		
JOB NAME: BEACON KNOLLS PHASE 3 SUPERIOR, WI.	DRAWN BY: CRI	CHECKED BY:
	SCALE: AS NOTED	DATE: 8/25/94
DESCRIPTION: DETAILS	JOB NUMBER	SHEET 7



NOTE. FORCE SHALL HAVE MINIMUM OF 6' COVER

FORCE MAIN PROFILE





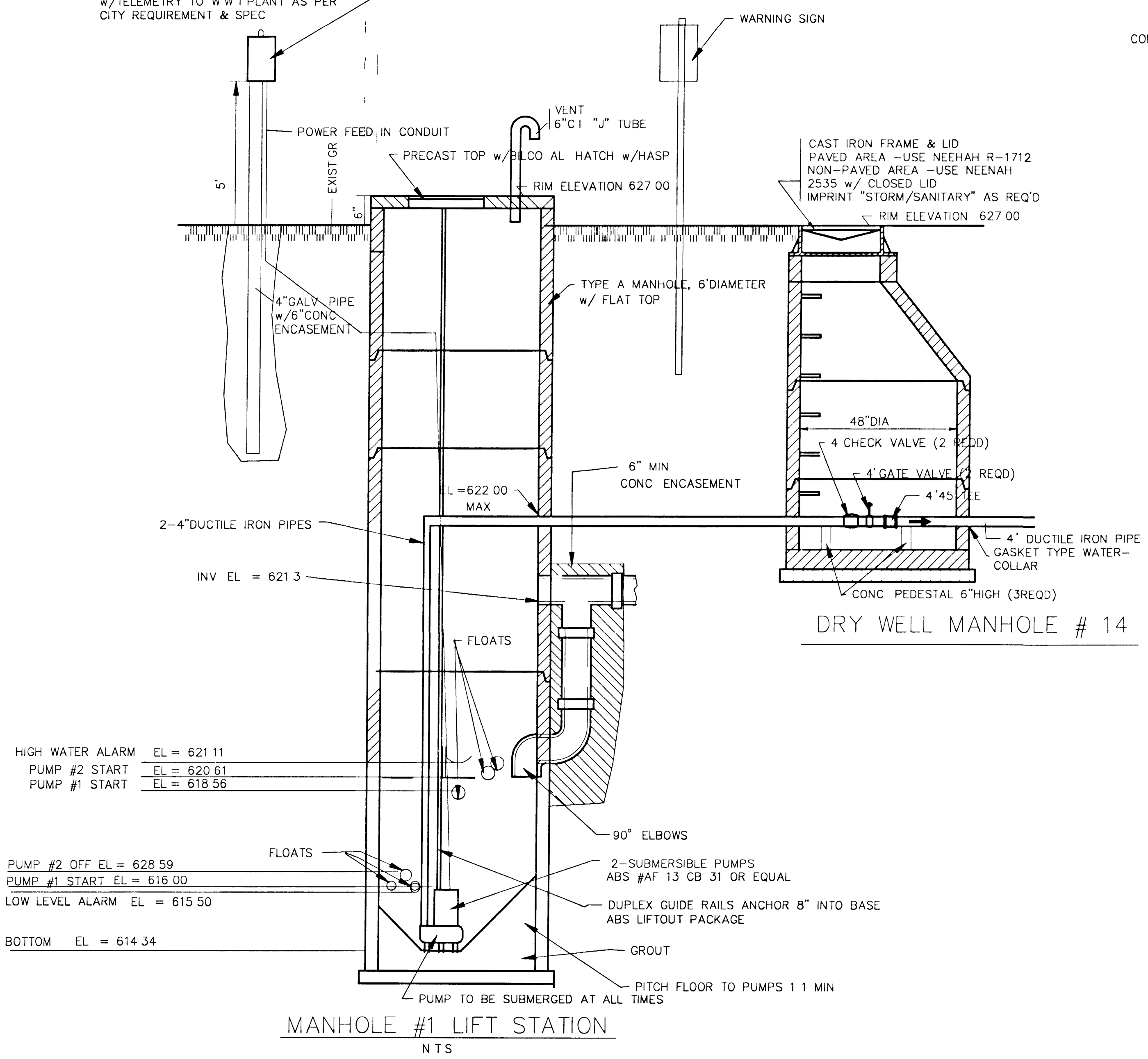
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**BEACON KNOLL ESTATES
PROFILES**

AUG. 3, 1992
SHEET # 8

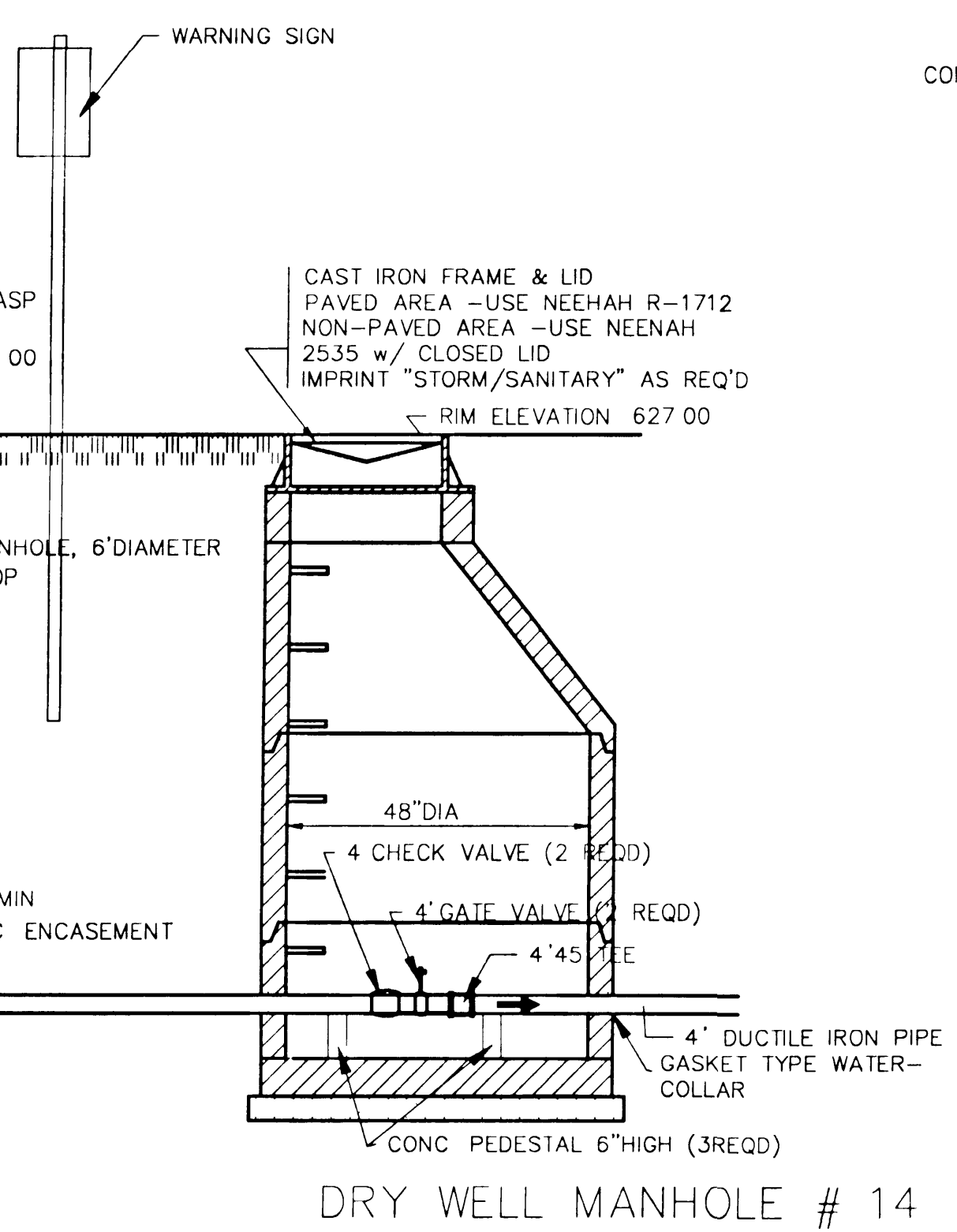
NEMA 4X DUPLEX PANEL w/ALARM LIGHT
 CE DUPLEX ELECTRICAL CONTROL PANEL
 (OUTDOOR USE)
 PER CITY SPEC
 w/TELEMETRY TO WWT PLANT AS PER
 CITY REQUIREMENT & SPEC



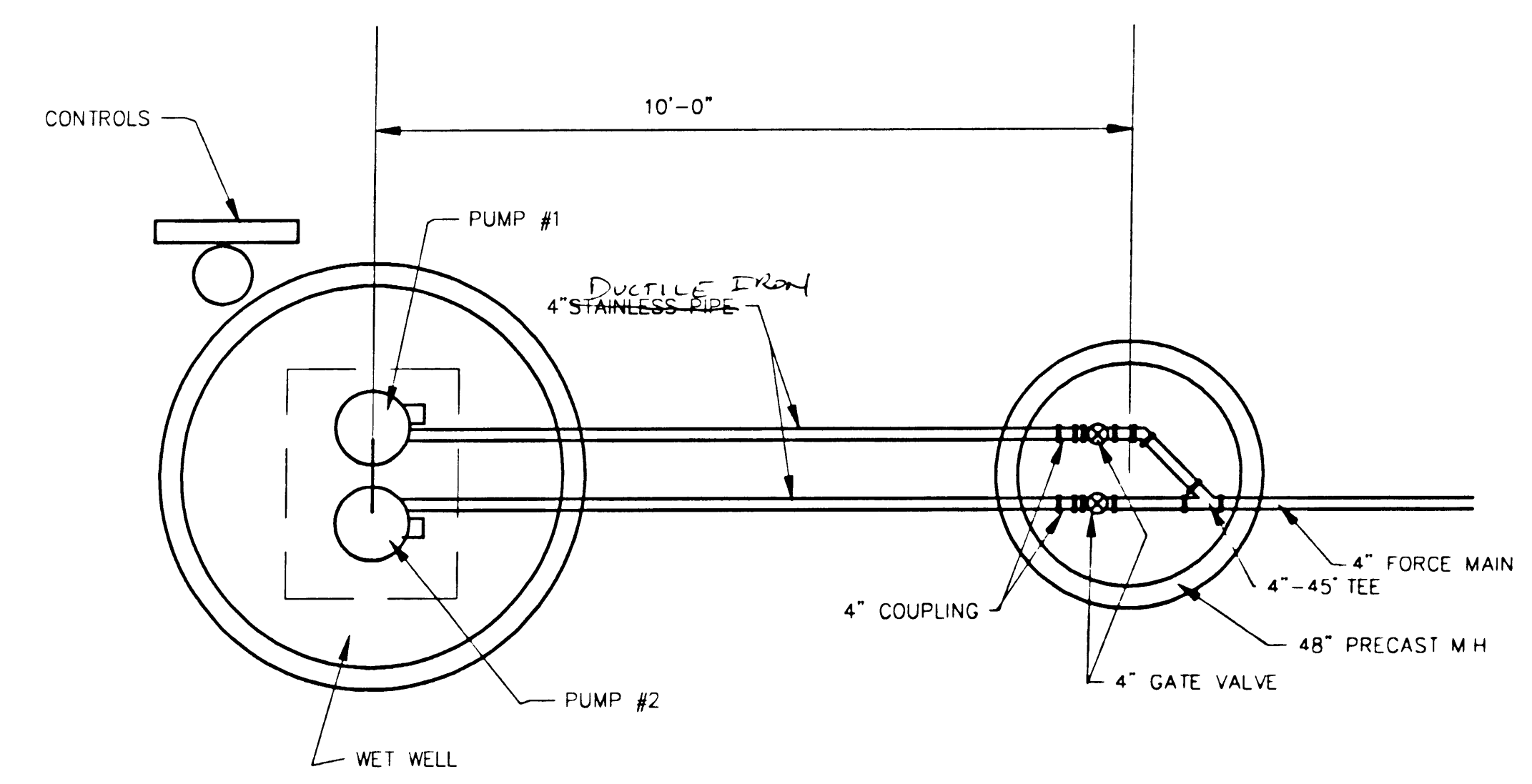
HIGH WATER ALARM EL = 621.11
 PUMP #2 START EL = 620.61
 PUMP #1 START EL = 618.56

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



DRY WELL MANHOLE # 14



PLAN VIEW
 N T S

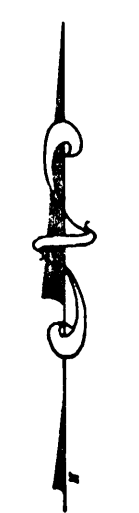
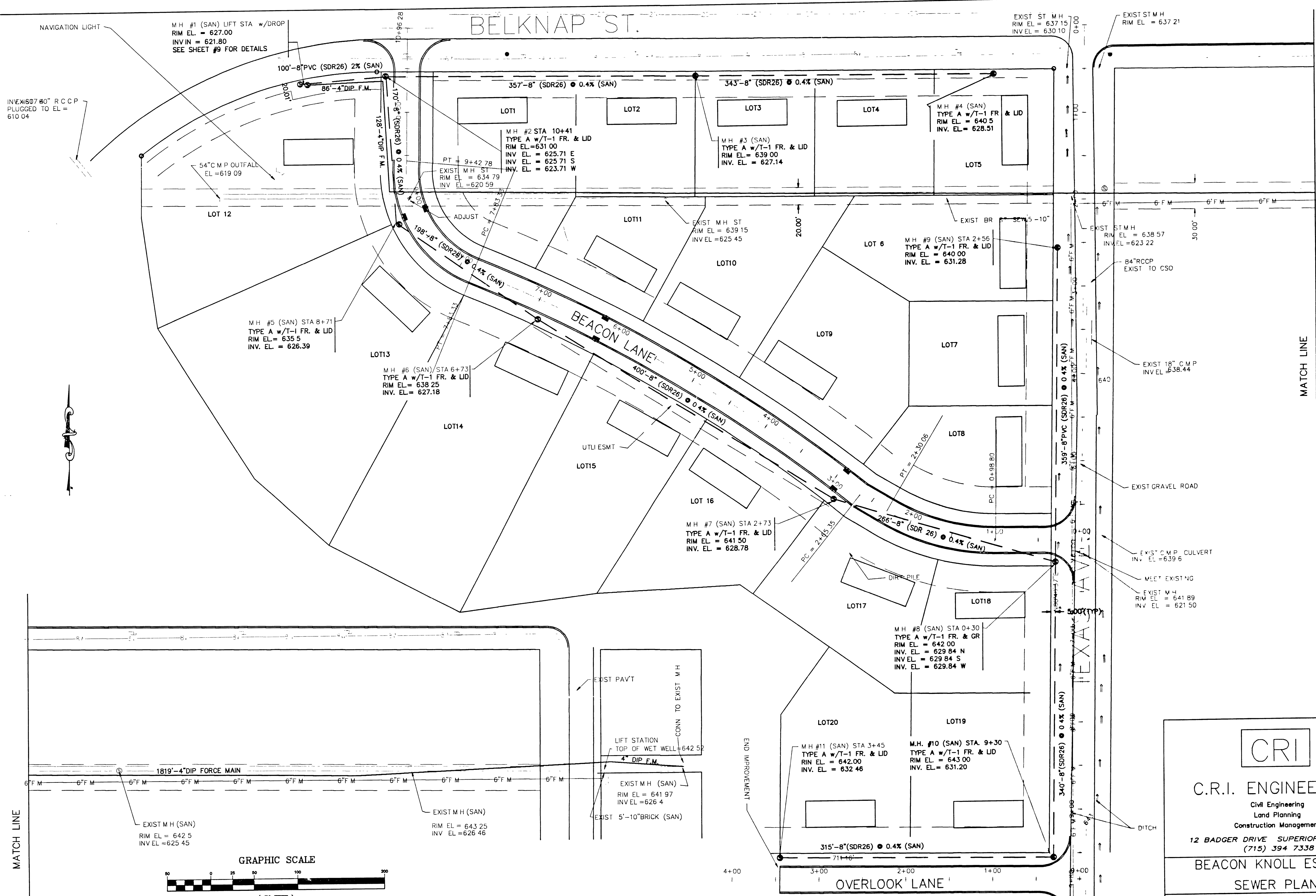
NO.	DATE	DESCRIPTION	BY

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BEACON KNOLL ESTATES
 LIFT STATION

AUG. 7, 1992	SHEET # 9
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MATCH LINE

6' F M 6' F M 6' F M 6' F M 6' F M 6' F M 6' F M 6' F M 6' F M 6' F M

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

EXIST 5'-10" BRICK (SAN)

GRAPHIC SCALE



(IN FEET)
1 inch = 60 ft.

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BEACON KNOLL ESTATES

SEWER PLAN

AUG. 3, 1992 SHEET # 4

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