SANITARY SEWER PLAN FOR IRONWOOD WEST III SUBDIVISION CHAMPAIGN CO., ILLINOIS

ENGINEER/SURVEYOR:
VEGRZYN, SARVER AND ASSOCIATES, INC.
713 EDGEBROOK DRIVE P.O. BOX 3697
CHAMPAIGN, ILLINOIS 61826

DEVELOPER:
RANDY PEIFER
7 DUNLAP COURT
SAVOY, ILLINOIS 61874

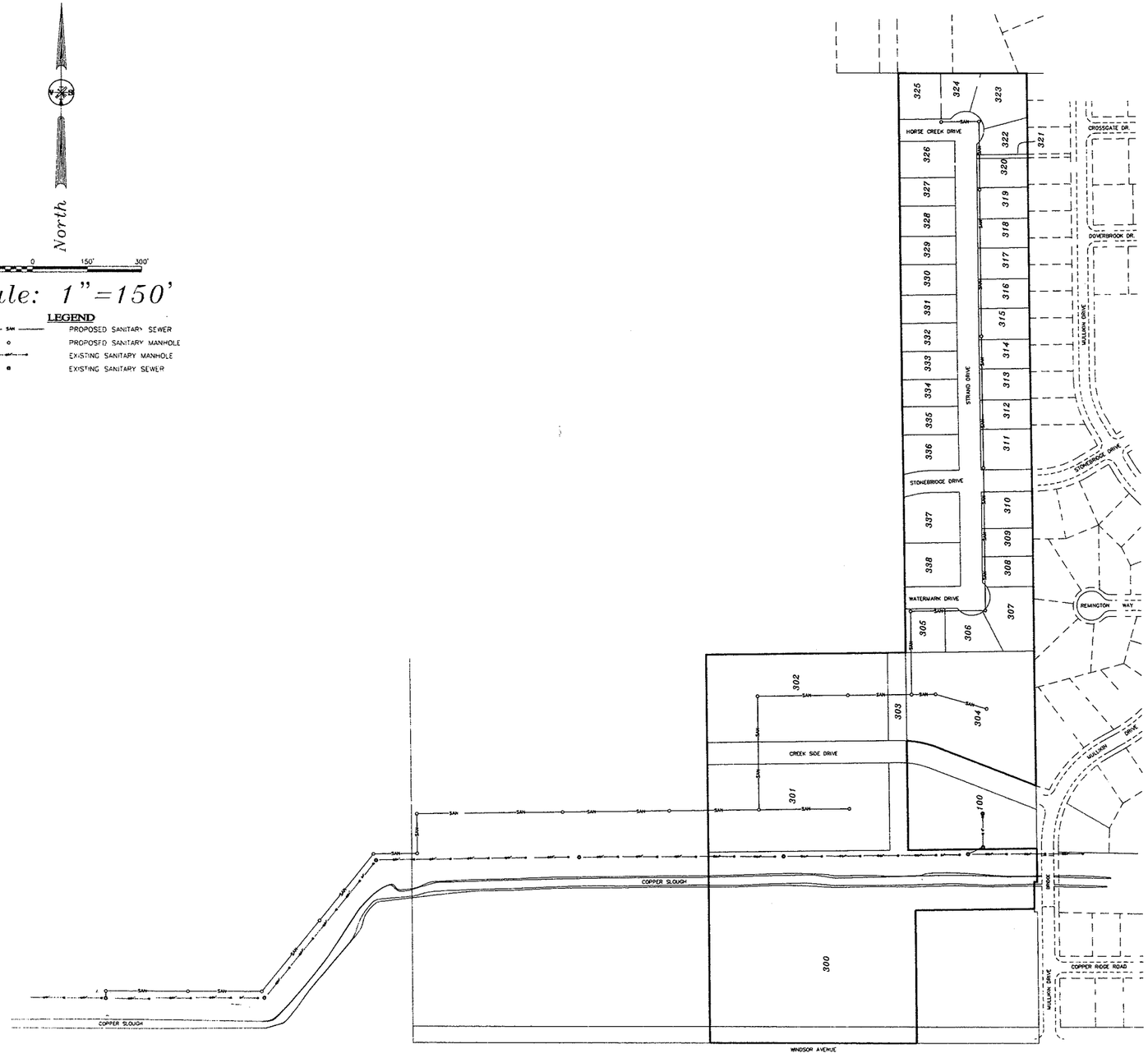
North

150' 0 150' 300'

Scale: 1"=150'

LEGEND

SAN	PROPOSED SANITARY SEWER
○	PROPOSED SANITARY MANHOLE
	EXISTING SANITARY MANHOLE
■	EXISTING SANITARY SEWER

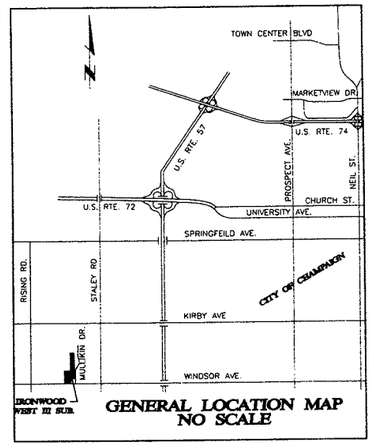


GENERAL NOTES

1. CONTRACTORS SHALL CONTACT J.U.L.I.E. AT 1-800-892-0123 AND LOCAL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION FOR FIELD LOCATION OF BURIED UTILITIES.
2. CONTRACTORS ARE ADVISED TO VISIT THE SITE PRIOR TO SUBMITTING BIDS.
3. SANITARY CASTING NUMBERS IN THESE PLANS REFER TO THE NEENAH FOUNDARY CO. CATALOG "R", 12TH EDITION.
4. SPECIFICATIONS ADOPTED BY REFERENCE IN THESE PLANS REFER TO THE LATEST PUBLISHED REVISION THEREOF.
5. EACH CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FROM THE CITY OF CHAMPAIGN AND REQUIRED INSURANCE COVERAGE PRIOR TO COMMENCING WORK.
   A. ALL CONTRACTORS SHALL OBTAIN ALL NECESSARY CITY EXCAVATION PERMITS AND BONDS PRIOR TO BEGINNING CONSTRUCTION AND SHALL PROVIDE COPIES OF THE SAME TO THE ENGINEER.
   B. CONTRACTOR'S ATTENTION IS CALLED TO CURRENT CITY, STATE AND FEDERAL (OSHA) SAFETY REGULATIONS AND GUIDELINES. CONTRACTOR'S SHALL BE FAMILIAR WITH THESE REGULATIONS AND GUIDELINES AND SHALL STRICTLY ADHERE TO THEM.
   C. CONTRACTORS SHALL PROTECT, INDEMNIFY, DEFEND AND HOLD HARMLESS THE OWNERS, THE OWNER'S ENGINEERS, AGENTS AND EMPLOYEES AND THE CITY OF CHAMPAIGN, IT'S ENGINEERS, AGENTS AND EMPLOYEES FROM AND AGAINST ANY ATTORNEY'S FEES ARISING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK OF THIS PROJECT. THIS OBLIGATION SHALL INCLUDE, BUT NOT BE LIMITED TO, SUITS, ACTIONS OR CLAIMS ARISING UNDER THE ILLINOIS STRUCTURAL WORK LAW AND ANY SIMILAR LAW OR STATUTE.
6. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND REFERENCED SPECIFICATIONS, THE REQUIREMENTS OF THE CITY OF CHAMPAIGN AND THE URBANA-CHAMPAIGN SANITARY DISTRICT.
7. SITE BENCHMARK:
   CHISELED "□" CUT IN NORTHEAST CORNER OF CONCRETE HEADWALL ON THE NORTH SIDE OF THE COPPER SLOUGH APPROXIMATELY 600 FEET EAST OF MULLIKIN DRIVE. ELEVATION = 708.90

SHEET INDEX

1. *COVER SHEET*
2. *SANITARY SEWER PLAN*
3. *SANITARY SEWER PLAN (CONT.)*
4. *SANITARY SEWER PLAN (CONT.)*
5. *SANITARY SEWER PROFILES*
6. *SANITARY SEWER PROFILES (CONT.)*
7. *SANITARY SEWER DETAILS*



GENERAL LOCATION MAP
NO SCALE

AS BUILT PLANS PREPARED BY:

STEVEN E. MEID, I.R.P.E. No. 53748 (DATE) 11/14/01

STEVEN E. MEID 53748 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

AS-BUILT: 11-14-01

REVISED: 06-29-01

Project: IRONWOOD WEST III SUBDIVISION	date: 04-27-01
Sheet Title: AS BUILT COVER SHEET	project #: 4-10658
VEGRZYN, SARVER AND ASSOCIATES, INC.	drawing #: ASBLT CV
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE	drawn by: SEM
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603	checked by: -
CAD File \4-10658\ASBLT10658CVR Plot Date 11-14-01 Plot Scale 1=150' Sheet 1 of 7	

IRONWOOD WEST III - AS BUILT SAN. VER.

SANITARY SEWER PLAN FOR IRONWOOD WEST III SUBDIVISION CHAMPAIGN CO., ILLINOIS

North

60' 0 60' 120'

Scale: 1" = 60'

LEGEND

- SAN — PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- E54 — EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING EASEMENT LINE
- EXISTING TEMPORARY EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED TEMPORARY EASEMENT LINE
- STM — PROPOSED STORM SEWER
- 705 — EXISTING GROUND CONTOUR LINE

GENERAL NOTES:

CONTRACTORS SHALL CONTACT J.U.L.I.E. AT 1-800-892-0123 AND LOCAL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION FOR FIELD LOCATION OF BURIED UTILITIES.

CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS REQUIRED FOR THE PROPOSED CONSTRUCTION DETAILED IN THESE PLANS PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL CONTACT VEGRZYN, SARVER & ASSOCIATES AT 359-6603 AND THE CITY OF CHAMPAIGN ENGINEERING DEPARTMENT AT 351-4466 24 HOURS PRIOR TO BEGINNING CONSTRUCTION FOR INSPECTION AND/OR TESTING.

CONTRACTOR SHALL CONTACT THE URBANA-CHAMPAIGN SANITARY DISTRICT AT 367-3409 PRIOR TO THE CONSTRUCTION OF ANY CONNECTION TO THE DISTRICT'S INTERCEPTOR MANHOLE, AND THAT THE CONNECTIONS SHALL BE APPROVED BY THE SANITARY DISTRICT PRIOR TO ANY CONSTRUCTION OF THE PROPOSED SANITARY SEWER EXTENSIONS SHOWN ON THESE PLANS.

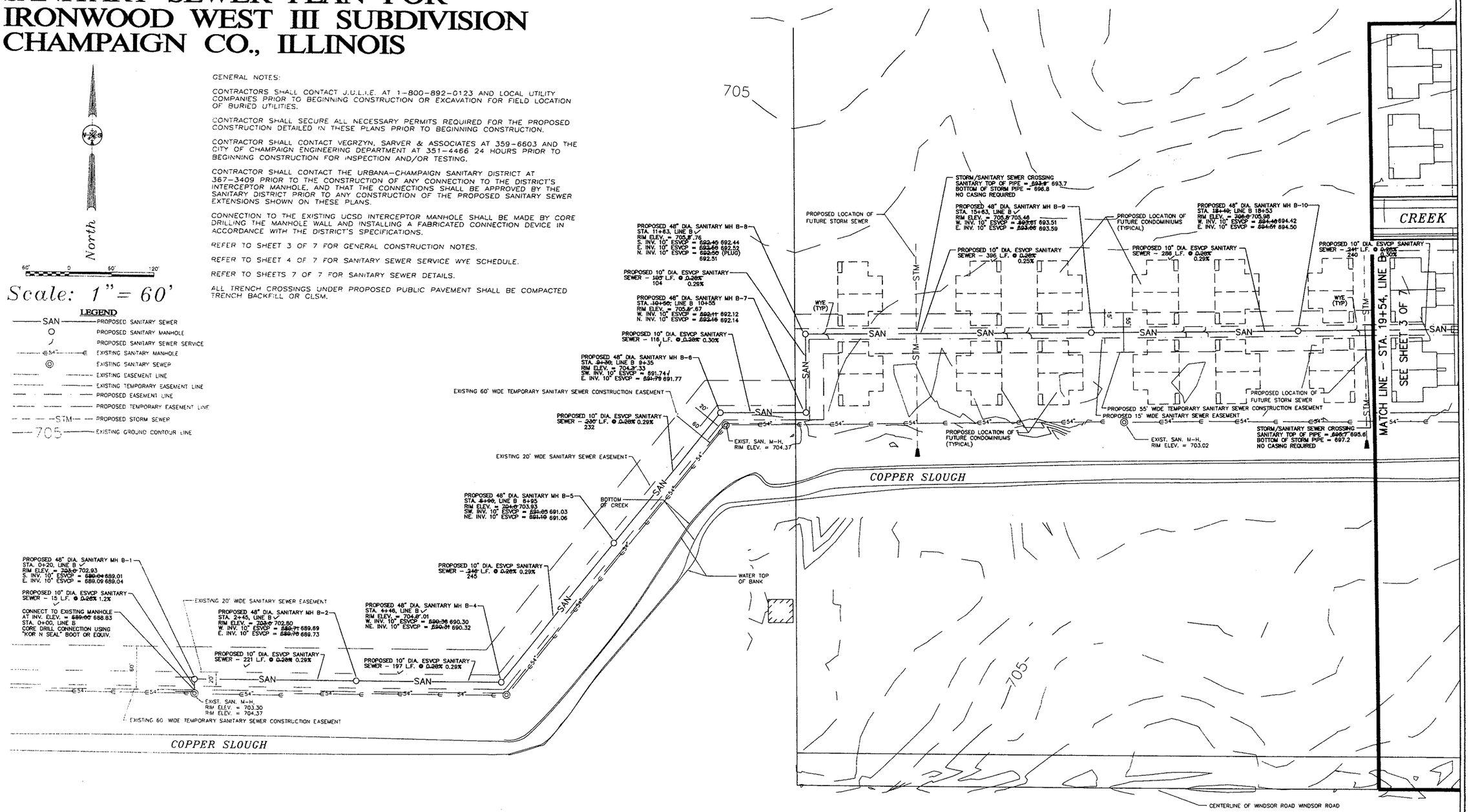
CONNECTION TO THE EXISTING UCSD INTERCEPTOR MANHOLE SHALL BE MADE BY CORE DRILLING THE MANHOLE WALL AND INSTALLING A FABRICATED CONNECTION DEVICE IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS.

REFER TO SHEET 3 OF 7 FOR GENERAL CONSTRUCTION NOTES.

REFER TO SHEET 4 OF 7 FOR SANITARY SEWER SERVICE WYE SCHEDULE.

REFER TO SHEETS 7 OF 7 FOR SANITARY SEWER DETAILS.

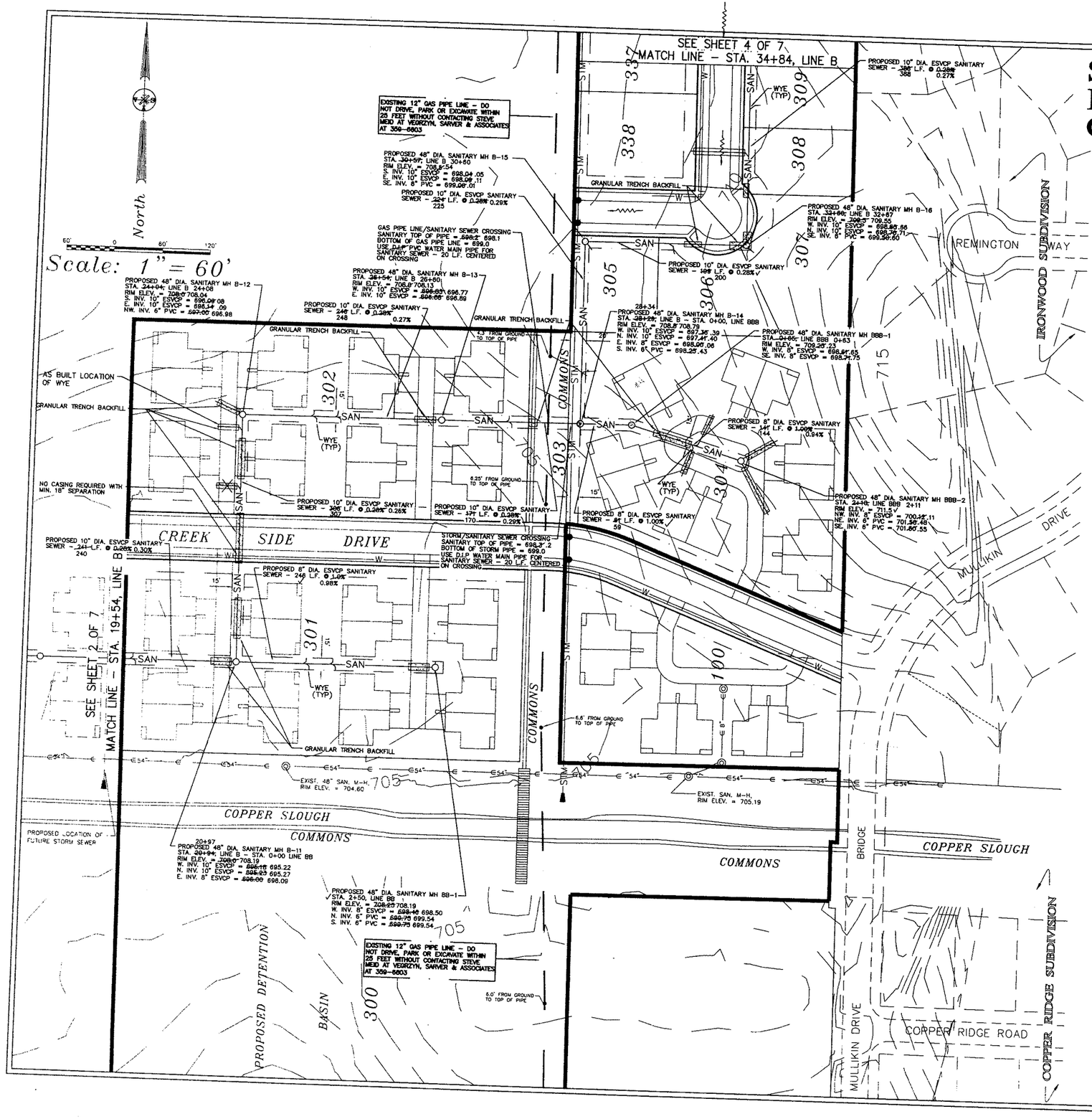
ALL TRENCH CROSSINGS UNDER PROPOSED PUBLIC PAVEMENT SHALL BE COMPACTED TRENCH BACKFILL OR CLSM.



AS-BUILT: 11-14-01

Project: IRONWOOD WEST III SUBDIVISION	date: 04-27-01
Sheet Title: AS BUILT SANITARY SEWER PLAN	project # 4-10658
VEGRZYN, SARVER AND ASSOCIATES, INC.	drawn by: SEM
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE	checked by:
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603	
CAD File 4-10658\ASBLT10658SAN1 Plot Date 11-14-01 Plot Scale 1=60' Sheet 2 of 7	

SANITARY SEWER PLAN FOR IRONWOOD WEST III SUBDIVISION CHAMPAIGN CO., ILLINOIS



LEGEND

- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SERVICE
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING EASEMENT LINE
- EXISTING TEMPORARY EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED STORM SEWER
- EXISTING GROUND CONTOUR LINE
- PROPOSED WATER MAIN

GENERAL NOTES FOR SANITARY SEWER CONSTRUCTION

1. ALL SANITARY SEWER CONSTRUCTION AND TESTING SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, FIFTH EDITION, ADOPTED MAY 1996 AND THE REQUIREMENTS OF THE CITY OF CHAMPAIGN AND THE URBANA-CHAMPAIGN SANITARY DISTRICT.
2. TRENCH BACKFILL CONFORMING TO SECTION 208 OF THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SHALL BE USED IN TRENCHES UNDER ALL PAVED AREAS AND SHALL BE COMPACTED BY RAMMING OR TAMPING TOOLS BY THE INSTALLING CONTRACTOR PRIOR TO PAVING. CONTROLLED LOW STRENGTH MATERIAL OR "FLOWABLE FILL" MAY BE USED IN LIEU OF AGGREGATE BACKFILL.
3. ALL SANITARY SEWER MANHOLES SHALL BE TYPE "A" WITH NEENAH CASTING #R-1772 WITH TYPE "B" LID. TWO CONCEALED PICKHOLES TYPE "F", AND RUBBER GASKETED, SELF SEALING LIDS (SEE DETAILS). ALL SANITARY SEWER MANHOLES SHALL HAVE A RIM ELEVATION 0.2 FEET HIGHER THAN FINISHED GRADE OF THE SURROUNDING GROUND EXCEPT MANHOLES IN PAVEMENT. ALL SANITARY SEWER MANHOLES SHALL HAVE A 0.1 FOOT DROP IN INVERT ELEVATION FROM THE UPSTREAM TO THE DOWNSTREAM SEWER MAIN.
4. ALL PIPE FOR SANITARY SEWER MAINS SHALL BE EXTRA-STRENGTH VITRIFIED CLAY PIPE MEETING ASTM C-700 WITH RUBBER GASKET PUSH-ON FLEXIBLE ELASTOMERIC SEAL JOINTS MEETING ASTM C-425.
5. ALL PIPE FOR SANITARY SEWER SERVICES SHALL BE PVC PIPE MEETING ASTM D-3034, SDR35. JOINTS FOR PVC SANITARY SEWER SHALL BE PUSH-ON FLEXIBLE ELASTOMERIC SEAL JOINTS MEETING ASTM D-3212.
6. ALL SANITARY SERVICES SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER AND LAID AT A 1.04% SLOPE OR GREATER. SERVICES CROSSING UNDER PROPOSED PAVEMENT SHALL BE CONSTRUCTED A MINIMUM OF 5 FEET PAST THE OPPOSITE EDGE OF PAVEMENT. ALL WYES SHALL BE 8"X6".
7. WHERE THE SANITARY SEWER MAIN IS GREATER THAN 7 FEET BELOW FINISHED GRADE A RISER SHALL BE INSTALLED TO BRING THE SERVICE LINE WITHIN 7 FEET OF FINISHED GRADE (SEE DETAIL).
8. INSTALL 2"X4" WOODEN LEADER AT THE END OF ALL SERVICE LINES (SEE DETAIL).
9. THE ENGINEER SHALL BE PRESENT ONSITE DURING A MINIMUM OF 75% OF THE TIME OF CONSTRUCTION OF THE PROPOSED SANITARY SEWER MAIN FOR INSPECTION.
10. NO BACKFILL SHALL BE PLACED OVER ANY WYE CONNECTION UNTIL THE ENGINEER HAS HAD AN OPPORTUNITY TO INSPECT AND MEASURE THE LOCATION OF THE CONNECTION. THE CONTRACTOR SHALL, EACH DAY, NOTIFY THE ENGINEER'S OFFICE AT 359-6603 BY 4:00 PM THAT HE HAS WYE CONNECTIONS READY FOR INSPECTION AND MEASUREMENT. AFTER THE ENGINEER COMPLETES THE INSPECTION AND MEASUREMENT, THE CONTRACTOR SHALL INSTALL THE WOODEN LEADER AND BACKFILL THE CONNECTION. NO WYE CONNECTIONS SHALL BE LEFT EXPOSED OVERNIGHT.
11. WHEN THE NATURAL WATER TABLE IS MORE THAN 24" ABOVE ANY SECTION OF THE SANITARY SEWER MAIN, THAT PORTION OR PORTIONS THEREOF SHALL BE TESTED FOR ACCEPTANCE BY THE INFILTRATION METHOD ONLY. OTHERWISE EXFILTRATION OF AIR TESTING SHALL BE USED AS DIRECTED BY THE ENGINEER. MAXIMUM ALLOWABLE INFILTRATION AND EXFILTRATION SHALL BE 200 GAL. PER INCH OF PIPE DIAMETER PER DAY PER MILE OF SEWER AS STATED IN THE STANDARD SPECIFICATIONS. THE AIR TEST INTERNAL AIR PRESSURE SHALL BE ADJUSTED FOR WATER PRESSURE BY 0.4335 PSI/FT.
12. ALL SANITARY SEWER MAINS SHALL BE TESTED AND SHALL BE INCIDENTAL TO THE COST OF THE UTILITY BEING TESTED.
13. MINIMUM HORIZONTAL AND VERTICAL SEPARATIONS BETWEEN WATER AND SEWER MAINS AS SET FORTH IN THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS SHALL BE MAINTAINED.
14. ALL SANITARY SEWER SERVICE CONNECTIONS TO MANHOLES SHALL BE NO GREATER THAN TWO FEET ABOVE THE INVERT OF THE OUTLET PIPE.
15. A CLEANOUT SHALL BE PROVIDED AT ALL BEND POINTS IN PROPOSED SANITARY SEWER SERVICE LINES.
16. REFER TO SHEET 4 OF 7 FOR SANITARY SEWER SERVICE WYE SCHEDULE.
16. ALL WATER MAIN PIPE USED FOR SANITARY SEWER CROSSINGS WITH WATERMAIN OR STORM SEWER SHALL BE A MINIMUM OF PRESSURE CLASS 350 DUCTILE IRON PIPE WITH PUSH-ON JOINTS AND CEMENT LINING CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-91.

AS-BUILT: 11-14-01

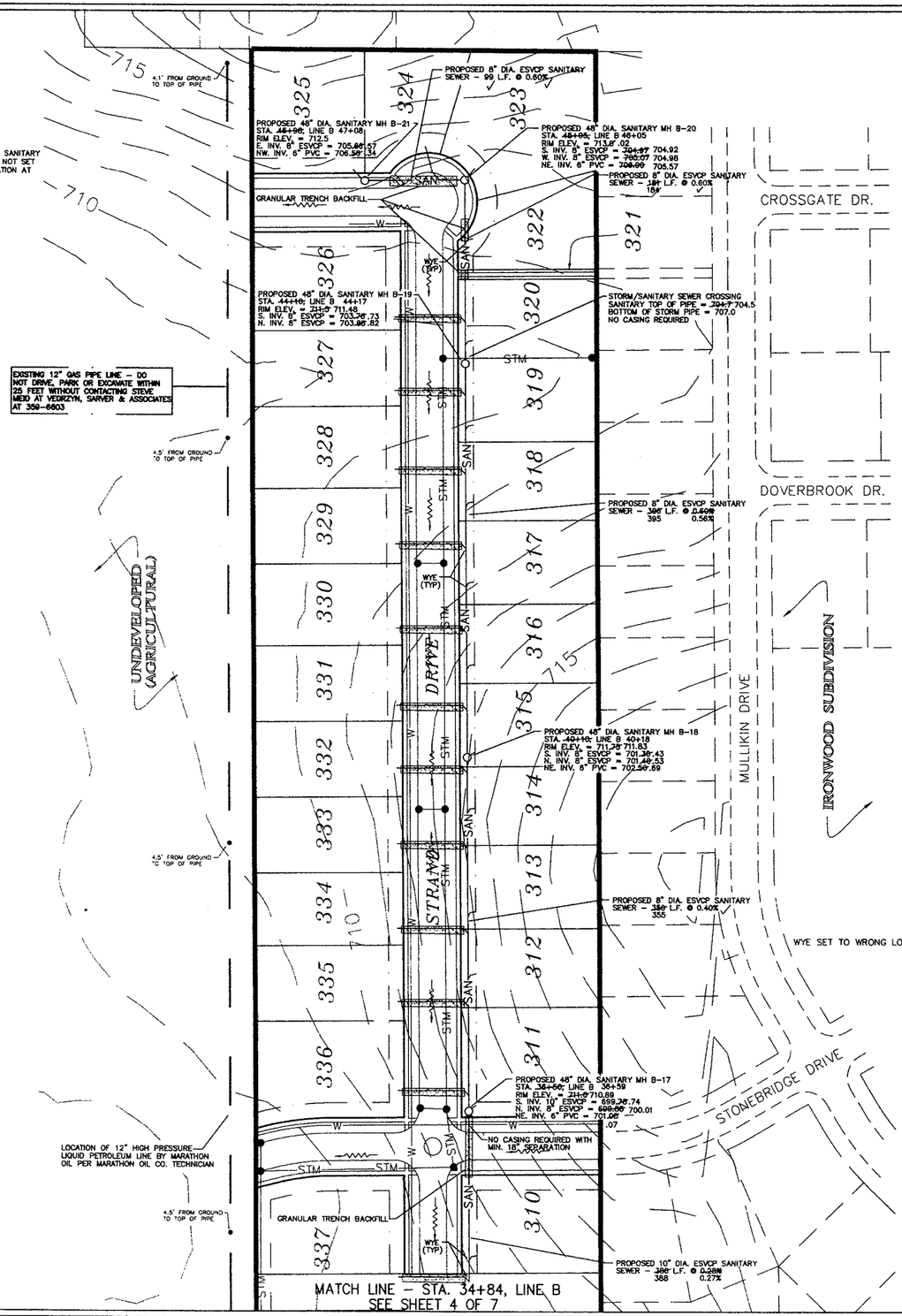
REVISED: 06-29-01

Project	IRONWOOD WEST III SUBDIVISION
Sheet Title	AS BUILT SANITARY SEWER PLAN (CONT.)
Date	04-27-01
Project #	4-10658
Scale	
Drawn by	SEM
Checked by	

VEGRZYN, SARVER AND ASSOCIATES, INC.
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603

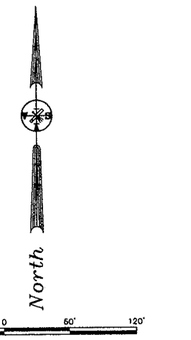
CAD File \4-10658\ASBLT10658SAN2 Plot Date 11-14-01

SANITARY SEWER PLAN FOR IRONWOOD WEST III SUBDIVISION CHAMPAIGN CO., ILLINOIS



SANITARY SEWER SERVICE WYE SCHEDULE

LOT	SIZE	STATION	LINE	CONNECTION	LENGTH OF SERVICE	DIRECTION OF SERVICE
UNDEVELOPED	6"	11+~~82~~ 86	B	WYE	10'	NORTH
UNDEVELOPED	6"	11+~~92~~ 94	B	WYE	10'	SOUTH
UNDEVELOPED	6"	14+~~35~~ 41	B	WYE	10'	NORTH
UNDEVELOPED	6"	14+~~45~~ 50	B	WYE	10'	SOUTH
UNDEVELOPED	6"	14+~~66~~ 71	B	WYE	10'	NORTH
UNDEVELOPED	6"	14+~~76~~ 81	B	WYE	10'	SOUTH
UNDEVELOPED	6"	16+~~84~~ 90	B	WYE	10'	NORTH
UNDEVELOPED	6"	16+~~94~~ 99	B	WYE	10'	SOUTH
UNDEVELOPED	6"	17+~~14~~ 19	B	WYE	10'	NORTH
UNDEVELOPED	6"	17+~~24~~ 36	B	WYE	10'	SOUTH
UNDEVELOPED	6"	19+~~28~~ 37	B	WYE	10'	NORTH
UNDEVELOPED	6"	19+~~39~~ 46	B	WYE	10'	SOUTH
301	6"	19+~~62~~ 68	B	WYE	10'	NORTH
301	6"	19+~~72~~ 77	B	WYE	10'	SOUTH
302	6"	23+~~09~~ 91	B	WYE	32'	WEST
302	6"	24+~~04~~ 08	B	MANHOLE	35'	NORTHWEST
302	6"	24+~~90~~ 99	B	WYE	10'	NORTH
302	6"	25+~~00~~ 09	B	WYE	10'	SOUTH
302	6"	25+~~20~~ 27	B	WYE	10'	NORTH
302	6"	25+~~30~~ 38	B	WYE	10'	SOUTH
302	6"	27+~~36~~ 44	B	WYE	10'	NORTH
302	6"	27+~~46~~ 53	B	WYE	10'	SOUTH
304	6"	28+~~29~~ 34	B	MANHOLE	0'	SOUTH
304	6"	28+~~89~~ 99	B	WYE	10'	EAST
305	6"	30+~~57~~ 63	B	MANHOLE	0'	SOUTHEAST
306	6"	31+~~62~~ 70	B	WYE	10'	SOUTH
307	6"	32+~~60~~ 67	B	MANHOLE	0'	SOUTHEAST
308	6"	33+~~40~~ 59	B	WYE	10'	EAST
338	6"	33+~~72~~ 79	B	WYE	72'	WEST
309	6"	34+~~29~~ 44	B	WYE	10'	EAST
337	6"	34+~~76~~ 87	B	WYE	72'	WEST
310	6"	35+~~00~~ 18	B	WYE	10'	EAST
311	6"	36+~~50~~ 40	B	MANHOLE	0'	NORTHEAST
336	6"	36+~~67~~ 82	B	WYE	72'	WEST
335	6"	37+~~58~~ 72	B	WYE	72'	WEST
312	6"	~~37+04~~ 38+01	B	WYE	10'	EAST
334	6"	38+~~32~~ 42	B	WYE	72'	WEST
313	6"	38+~~50~~ 64	B	WYE	10'	EAST
333	6"	39+~~21~~ 43	B	WYE	72'	WEST
314	6"	39+~~54~~ 63	B	WYE	10'	EAST
332	6"	39+~~96~~ 98	B	WYE	72'	WEST
315	6"	40+~~10~~ 18	B	MANHOLE	0'	NORTHEAST
331	6"	~~38+32~~ 40+67	B	WYE	72'	WEST
316	6"	41+~~02~~ 16	B	WYE	10'	EAST
330	6"	41+~~38~~ 48	B	WYE	72'	WEST
317	6"	41+~~86~~ 93	B	WYE	10'	EAST
329	6"	42+~~26~~ 31	B	WYE	72'	WEST
318	6"	42+~~68~~ 73	B	WYE	10'	EAST
328	6"	43+~~00~~ 04	B	WYE	72'	WEST
319	6"	43+~~43~~ 51	B	WYE	10'	EAST
327	6"	43+~~80~~ 87	B	WYE	72'	WEST
320	6"	44+~~27~~ 35	B	WYE	10'	EAST
326	6"	44+~~52~~ 58	B	WYE	72'	WEST
322	6"	45+~~32~~ 40	B	WYE	10'	EAST
323	6"	~~45+95~~ 46+05	B	MANHOLE	10'	NORTHEAST
324	6"	46+20	B	WYE	10'	NORTH
325	6"	~~46+98~~ 47+08	B	MANHOLE	10'	NORTHWEST
301	6"	0+~~85~~ 89	BB	WYE	10'	NORTH
301	6"	0+~~95~~ 96	BB	WYE	10'	SOUTH
301	6"	1+~~18~~ 22	BB	WYE	10'	NORTH
301	6"	1+~~28~~ 30	BB	WYE	10'	SOUTH
301	6"	2+50 ✓	BB	MANHOLE	0'	NORTH
301	6"	2+50 ✓	BB	MANHOLE	0'	SOUTH
304	6"	1+~~45~~ 49	BBB	WYE	46'	NORTHEAST
304	6"	1+~~56~~ 62	BBB	WYE	38'	SOUTHWEST
304	6"	2+~~10~~ 11	BBB	MANHOLE	44'	NORTHEAST
304	6"	2+~~10~~ 11	BBB	MANHOLE	72'	SOUTHEAST



Scale: 1" = 60'

LEGEND

- SAN — PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
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- EXISTING SANITARY MANHOLE
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- W — PROPOSED WATER MAIN

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REFER TO SHEET 3 OF 7 FOR GENERAL CONSTRUCTION NOTES.

REFER TO SANITARY SEWER SERVICE WYE SCHEDULE BELOW.

REFER TO SHEETS 7 OF 7 FOR SANITARY SEWER DETAILS.

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REVISED: 06-29-01

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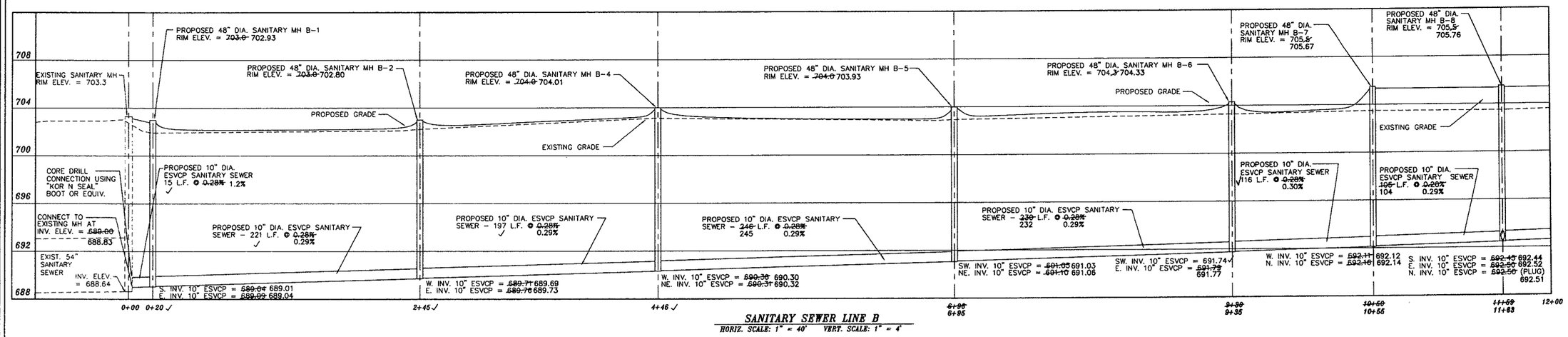
Project: IRONWOOD WEST III SUBDIVISION	Date: 04-27-01
Sheet Title: AS BUILT SANITARY SEWER PLAN (CONT.)	Project # 4-10658
VEGRZYN, SARVER AND ASSOCIATES, INC.	Drawn by: SEM
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE	Checked by: .
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603	.

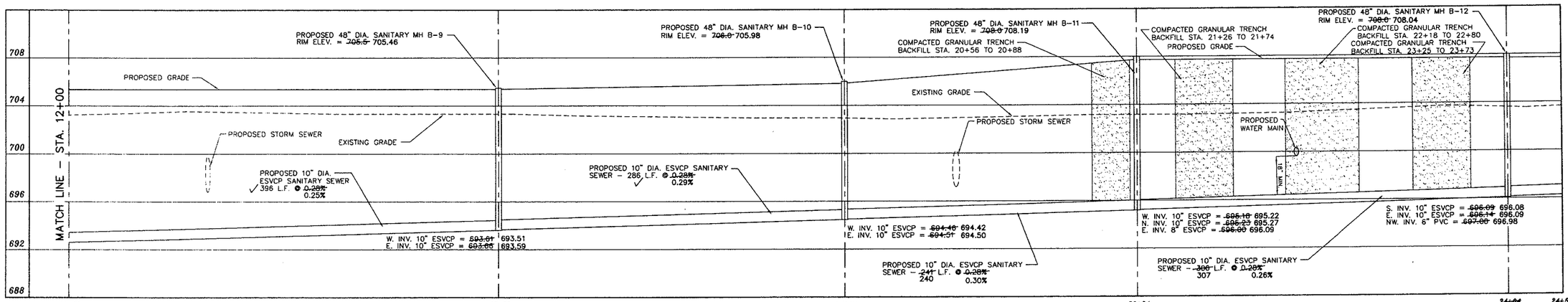
CAD File 4-10658\ASBLT10658SAN3 Plot Date 11-14-01 Plot Scale 1=60' Sheet 4 of 7

SANITARY SEWER PROFILES FOR IRONWOOD WEST III SUBDIVISION



SANITARY SEWER LINE B

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'



SANITARY SEWER LINE B

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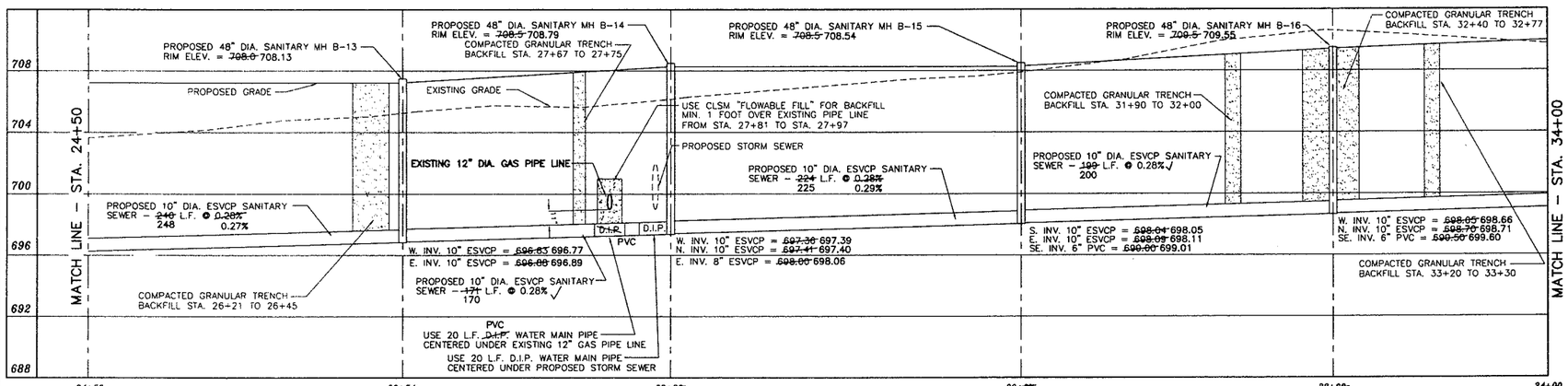

SANITARY SEWER LINE B

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

AS-BUILT: 11-14-01

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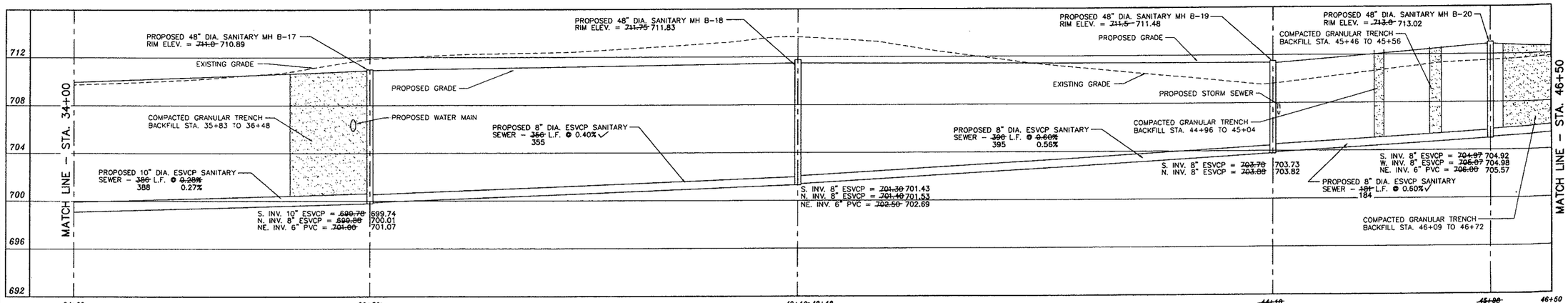
Project: *IRONWOOD WEST III SUBDIVISION*	Date: 04-27-01
Sheet Title: *AS-BUILT SANITARY SEWER PROFILES*	Project # 4-10658
	Scale: H. 1"=40' V. 1"=4'
	Drawn by: SEM
	Checked by: -

VEGRZYN, SARVER AND ASSOCIATES, INC.
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603

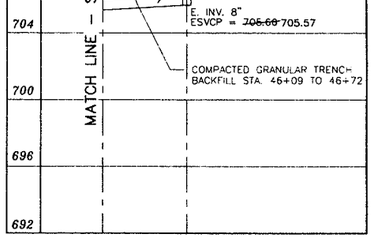
CAD File \4-10658\ASBLT10658SSPF Plot Date 11-14-01 Plot Scale 1=40' Sheet 5 of 7

SANITARY SEWER PROFILES FOR IRONWOOD WEST III SUBDIVISION



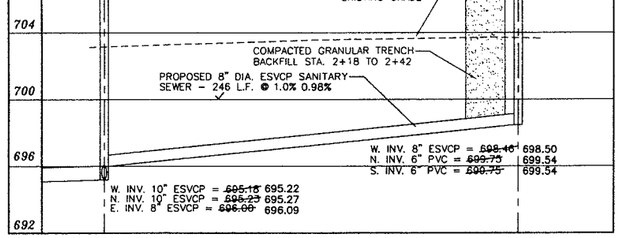
SANITARY SEWER LINE B

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'



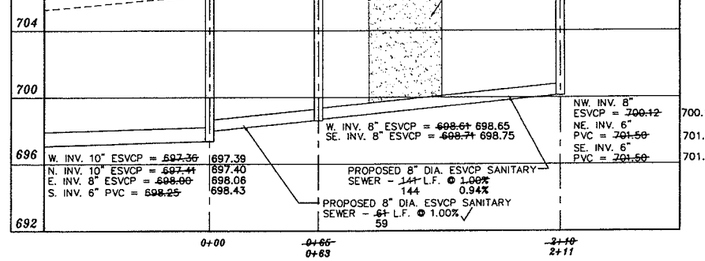
SANITARY SEWER LINE B

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'



SANITARY SEWER LINE BB

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'



SANITARY SEWER LINE BBB

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

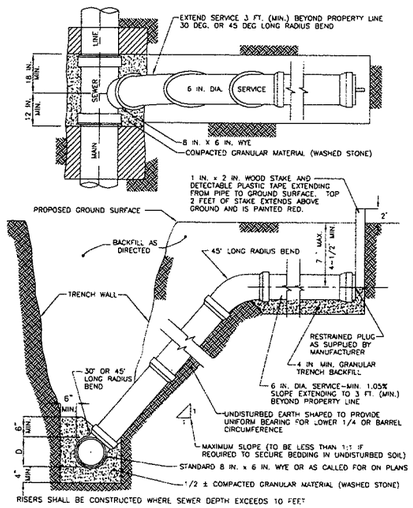
NOTE – RIM ELEVATION OF SANITARY MANHOLE 21 NOT SET TO FINAL ELEVATION

AS-BUILT: 11-14-01 REVISED: 06-29-01

Project: IRONWOOD WEST III SUBDIVISION	Date: ~~04-29-01~~
	Project #: 4-10658
Sheet Title: AS-BUILT SANITARY SEWER PROFILES (CONT.)	ASBLT: 11-14-01 SURVEY: 5-01
VEGRZYN, SARVER AND ASSOCIATES, INC.	Drawn By: SEM
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE	Checked by: -
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603	-

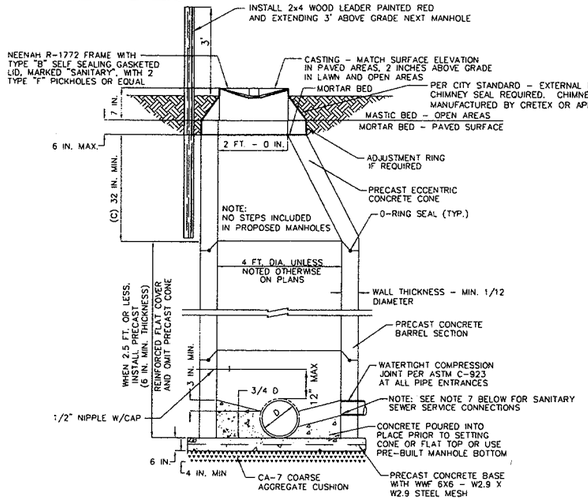
CAD File: 4-10658\ASBLT10658SSPF2 Plot Date: 11-14-01 Plot Scale: 1=40' Sheet 6 of 7

SANITARY SEWER DETAILS FOR IRONWOOD WEST III SUBDIVISION CHAMPAIGN CO., ILLINOIS



RISERS SHALL BE CONSTRUCTED WHERE SEWER DEPTH EXCEEDS 10 FEET

TYPICAL RISER DETAIL FOR DEEP SERVICE LATERAL
NO SCALE



1. PRECAST MANHOLES SHALL BE USED AND SHALL BE SEALED BY A RUBBER GASKET AT RING JOINTS.
2. INSIDE OF ALL JOINTS TO BE FILLED WITH MORTAR AND BRUSHED SMOOTH.
3. OUTSIDE OF ALL JOINTS TO BE SEALED WITH BITUMINOUS MASTIC MATERIAL
4. SANITARY SEWER LID SHALL BE SELF SEALING AND FRAME SHALL BE PLACED ON A BITUMINOUS MASTIC BED IN OPEN AREAS AND ON A MORTAR BED UNDER PAVED SURFACES.
5. MANHOLE COMPONENTS SHALL COMPLY WITH THE MATERIALS REQUIREMENTS OF SECTION 32 OF THE CURRENTS STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND IDOT STANDARD 1527.
6. DROP MANHOLE DETAILS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
7. ALL TERMINAL MANHOLE SERVICE CONNECTIONS SHALL BE MADE AT THE UPSTREAM SIDE OF THE MANHOLE. THERE SHALL BE A MINIMUM OF 4 INCHES OF ELEVATION DIFFERENCE FROM INVERT OF THE SERVICE CONNECTION TO THE INVERT OF THE OUTLET PIPE. THERE SHALL BE A CONCRETE CHANNEL CONSTRUCTED FROM THE INVERT OF THE SERVICE CONNECTION TO THE BENCH OF THE OUTLET PIPE.

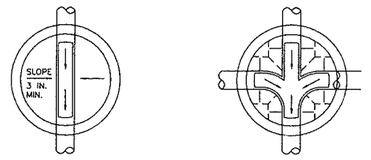
STANDARD SANITARY SEWER MANHOLE DETAIL
NO SCALE

D - MANHOLE DIAMETER

DIAMETER OF MAIN SEWER (d)	D (FT-IN)
18 IN. AND UNDER	4-0
21 IN. TO 36 IN. INCLUSIVE	5-0

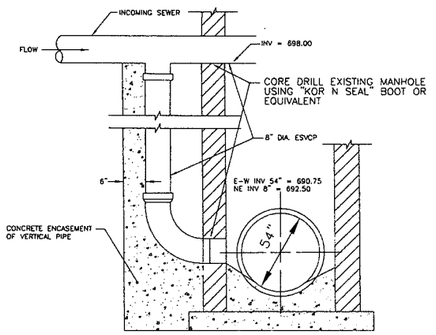
ALTERNATE MATERIALS FOR WALL	D (FT-IN)	C (FT-IN)	T (FT-IN)
MONOLITHIC	4-0	2-6	6
CONCRETE	5-0	3-9	6
PRECAST REINFORCED CONCRETE	4-0	2-6	4
	5-0	3-9	5

SANITARY SEWER MANHOLE SCHEDULE

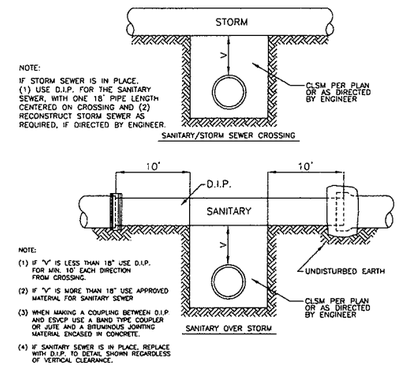


STANDARD THRU MANHOLE **STANDARD JUNCTION MANHOLE**

SANITARY MANHOLE INVERT DETAILS
NO SCALE



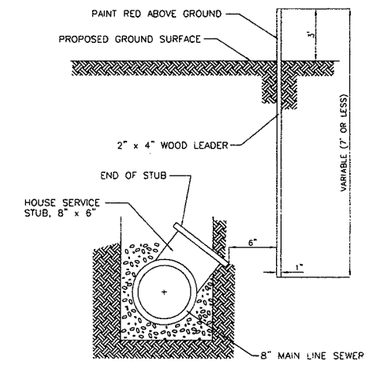
DROP MANHOLE CONNECTION
STA. 0+00 LINE A



NOTE:
IF STORM SEWER IS IN PLACE, (1) USE D.I.P. FOR THE SANITARY SEWER, WITH ONE 18' PIPE LENGTH CENTERED ON CROSSING AND (2) RECONSTRUCT STORM SEWER AS REQUIRED, IF DIRECTED BY ENGINEER.

NOTE:
(1) IF "V" IS LESS THAN 18" USE D.I.P. FOR MIN. 10' EACH DIRECTION FROM CROSSING.
(2) IF "V" IS MORE THAN 18" USE APPROVED MATERIAL FOR SANITARY SEWER
(3) WHEN MAKING A COUPLING BETWEEN D.I.P. AND ESVCP USE A BAND TYPE COUPLER OR JUTE AND A BITUMINOUS JOINTING MATERIAL ENCASED IN CONCRETE.
(4) IF SANITARY SEWER IS IN PLACE, REPLACE WITH D.I.P. TO DETAIL SHOWN REGARDLESS OF VERTICAL CLEARANCE.

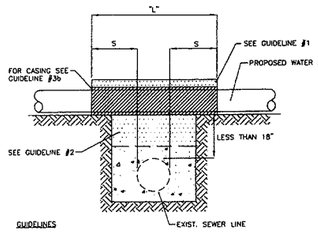
SANITARY/STORM SEWER CROSSINGS
NO SCALE



SERVICE WYE DETAIL
NO SCALE

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



GUIDELINES

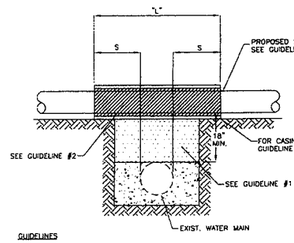
1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER.

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE.

WATER AND SEWER SEPARATION REQUIREMENTS (VERTICAL SEPARATION)
NO SCALE

PROPOSED SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B

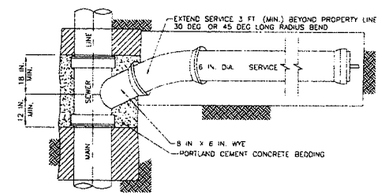


GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET
3. a. CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR ; b. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

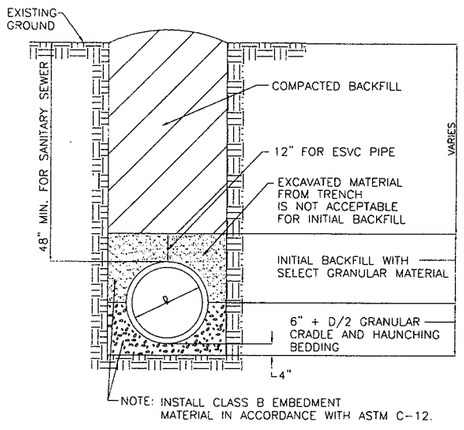
NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN.

WATER AND SEWER SEPARATION REQUIREMENTS (VERTICAL SEPARATION)
NO SCALE

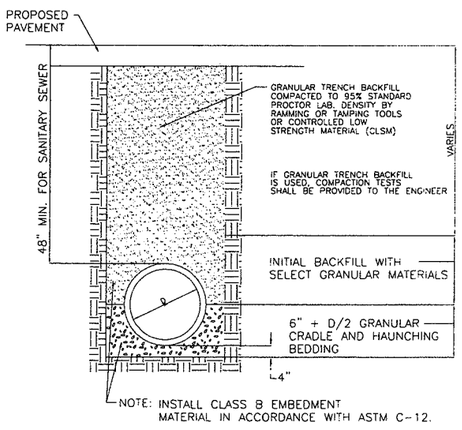


A WYE AND 1/8 BEND SHALL BE PROVIDED FOR EACH SERVICE CONNECTION SERVICE CONNECTIONS SHALL BE PROVIDED FOR EACH LOT.

TYPICAL DETAIL FOR SHALLOW SERVICE LATERAL
NO SCALE



SANITARY SEWER TRENCH DETAIL
NO SCALE



SANITARY SEWER TRENCH UNDER PAVED AREAS
NO SCALE

Project: IRONWOOD WEST III SUBDIVISION	Date: 06-14-01
Sheet Title: SANITARY SEWER DETAILS	Project #: 4-10658
VEGRZYN, SARVER AND ASSOCIATES, INC.	Drawn by: SEM
CIVIL ENGINEERING - LAND SURVEYING - ARCHITECTURE	Checked by: .
713 Edgebrook Drive - Champaign, Illinois 61820 - (217) 359-6603	.

CAD File \4-10658\SWR-DTLS Plot Date 06-14-01 Plot Scale 1=40' Sheet 7 of 7