

ILLINOIS

AMERICAN WATER CO.

ORANGE PRAIRIE ROAD

WATER MAIN EXTENSION

PEORIA, ILLINOIS

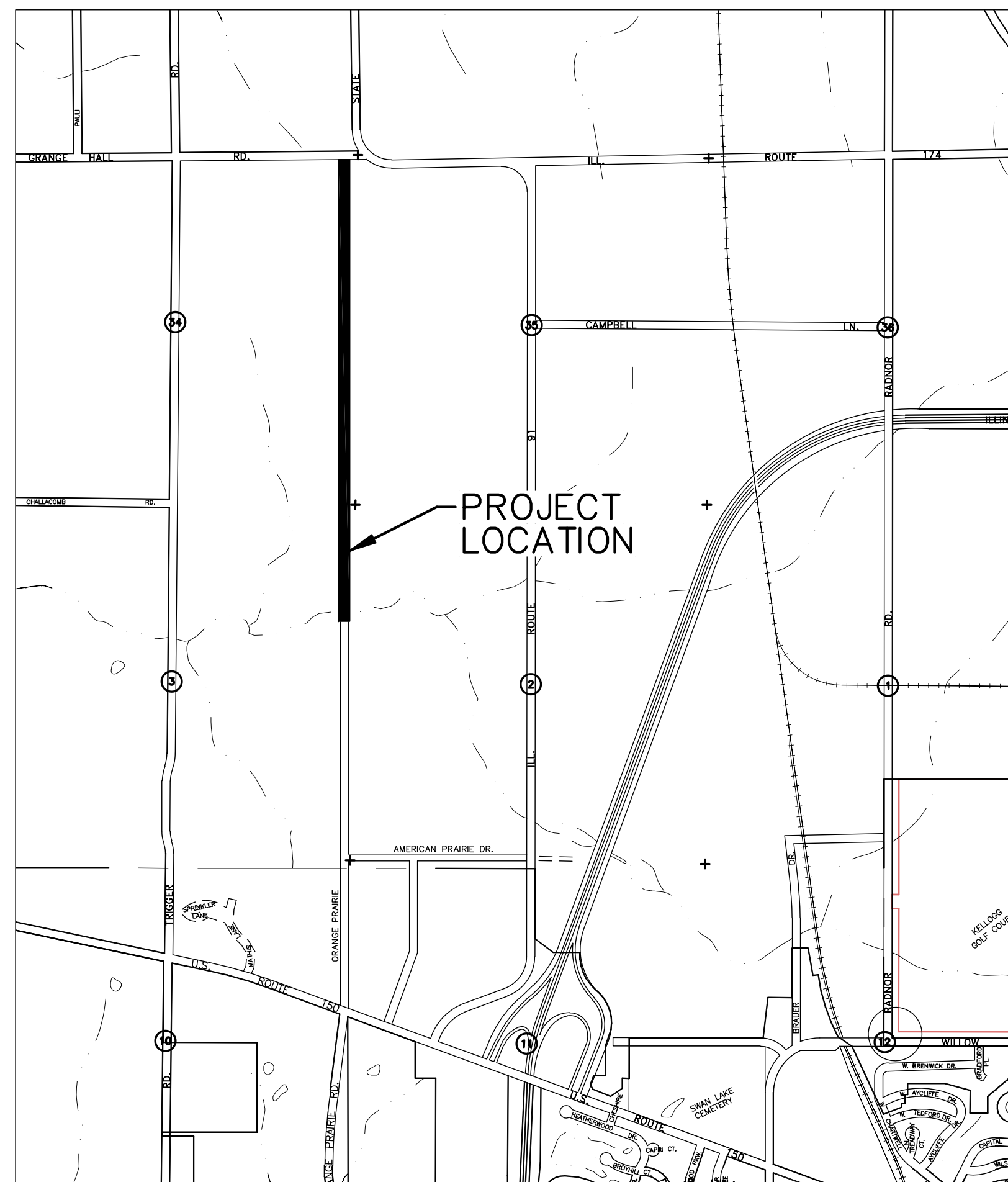
INDEX OF SHEETS

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- 2 LEGEND, GENERAL NOTES & CONTROL POINTS
- 3-14 WATER MAIN PLAN & PROFILE SHEETS
- 15-16 WATER MAIN CONSTRUCTION DETAILS

LIST OF UTILITY COMPANIES

- | | |
|----------------------------------|-----------------------------------|
| ATT (DISTRIBUTION) | JOHN O'FLAHERTY
(309-686-3316) |
| AMEREN GAS & ELECTRIC | KENT KOWALSKA
(309-693-4839) |
| COMCAST (CABLE & TELEPHONE) | KIRK KROMPHARDT
(309-686-2616) |
| GREATER PEORIA SANITARY DISTRICT | MARIA ZAVALA
(309-272-4844) |
| FRONTIER COMMUNICATIONS | DARRELL SENIOR
(309-827-1253) |
| I.A.W.C. | JIM RAY
(309-566-4108) |
| I.A.W.C. | MATT WHITE
(309-208-8366) |
| MEDIACOM | DENNIS JARDING
(309-743-4750) |
| WINDSTREAM/PAETEC (FIBER) | MARK MILLS
(217-876-7194) x240 |
| | DAVID FERREIRA
(309-253-0930) |
| CITY OF PEORIA | KEN ANDREJASICH
(309-494-8815) |

THE LIST PROVIDED IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING J.U.L.I.E FOR UTILITY LOCATIONS PRIOR TO BEGINNING ANY WORK.



LOCATION MAP
N.T.S.

AUSTIN ENGINEERING CO., INC.
PEORIA, ILLINOIS

BY: _____
DEVIN L. BIRCH, P.E.

DATE: _____



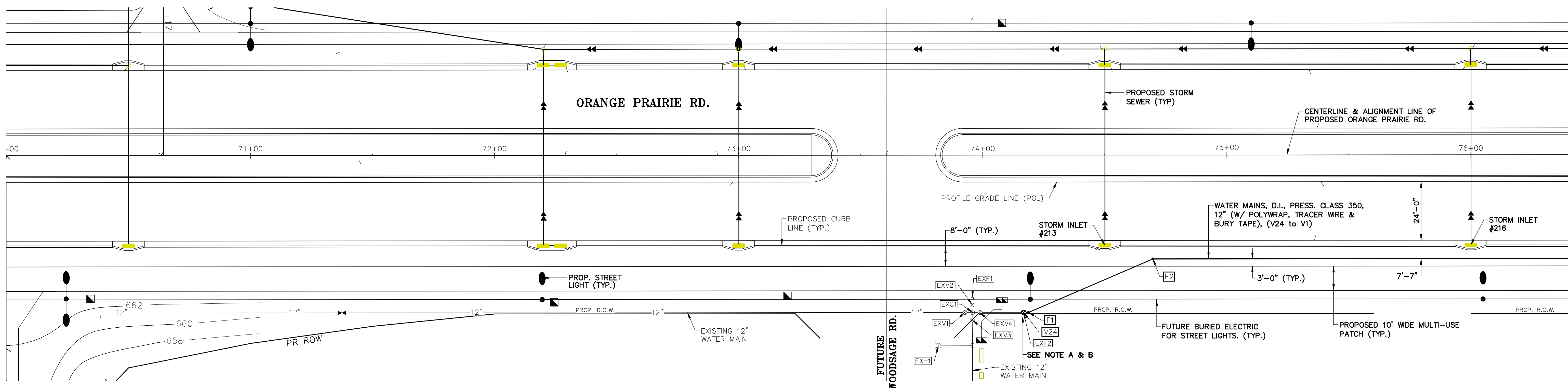
LICENSE EXPIRES 11/30/13

SUMMARY OF QUANTITIES

<u>ITEM</u>	<u>QUANTITY</u>
WATER MAINS, D.I., PRESS. CL. 350, 6" (HYDRANT LATERALS)	45 FT
WATER MAINS, D.I., PR. CL. 350, 12" (W/ POLYWRAP, TRACER WIRE & BURY TAPE)	6,258 FT
WATER MAIN ENCASEMENT, PVC, CL. 150, 24"	60 FT
MJ GATE VALVE & BOX, 6"	11 EA
MJ GATE VALVE & BOX, 12"	13 EA
MJ TEE, 12" x 6"	11 EA
MJ 11.25' ELBOW, 12"	4 EA
MJ 22.5' ELBOW, 12"	2 EA
MJ 45' ELBOW, 12"	2 EA
MJ 90' ELBOW, 6"	11 EA
MJ REDUCER, 8" x 6"	1 EA
MUELLER 3-WAY HYDRANTS, 6"	12 EA
SERVICE INSTALL (BACTI SAMPLE LOCATIONS)	7 EA

J.U.L.I.E. 1-800-892-0123

ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615		AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143	
COVER SHEET			
DATE: 1/29/13	REVISION:	PROJECT NUMBER:	SHEET NO. 1 OF 16
SCALE:	REVISION:		



- ▶ ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- ▶ WHERE THE WATER MAIN TRENCH CROSSES OR IS WITHIN TWO (2) FEET OF THE EDGE OF PAVEMENT, CURB, GUTTERS, CURB AND GUTTER, OR SIDEWALK, THE TRENCH SHALL BE BACKFILLED WITH A CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) IN ACCORDANCE WITH THE CITY OF PEORIA STANDARDS AND CONSTRUCTION PLANS. EARTHEN BACKFILL SHALL BE COMPACTED IN LIFTS NO GREATER THAN 1'-0" AT LOCATIONS SHOWN IN THE PLANS. IF TRENCH TESTING IS REQUIRED, TESTING SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "WATER MAINS, D.I., CL. 350, 12". ALL WORK WITHIN THE CITY OF PEORIA RIGHT-OF-WAY SHALL BE INSPECTED BY A CITY REPRESENTATIVE IF REQUIRED.
- ▶ THE CITY OF PEORIA WILL BE NOTIFIED IF ANY EXISTING FIELD TILES ARE LOCATED WHILE EXCAVATING FOR THE NEW MAIN TO DETERMINE IF THEY ARE LIVE OR DEAD. THE CITY OF PEORIA WILL DETERMINE IF THE EXISTING TILES ARE TO BE REPAIRED, PLUGGED OR TIED INTO THE PROPOSED STORM SEWER SYSTEM. THE WATER MAIN CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIRS AND ABANDONING OF THE EXISTING FIELD TILES, AND THE GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTING EXISTING TILES TO THE PROPOSED STORM SEWER SYSTEM IF SUGGESTED BY THE CITY REPRESENTATIVE. ANY REPAIRS MADE BY THE WATER MAIN CONTRACTOR SHALL BE APPROVED BY A CITY OF PEORIA REPRESENTATIVE, AND SHALL FOLLOW CITY STANDARDS. THE REPAIRS OR ABANDONING OF THE EXISTING FIELD TILES WILL BE PAID FOR UNDER THE "MASTER PIPE LINE AGREEMENT" FOR THE ITEM SPECIFIED BETWEEN THE CONTRACTOR AND I.A.W.C. THIS WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY TO COMPLETE THE REPAIR.
- ▶ WATER MAINS, UNLESS OTHERWISE NOTED IN THE PLANS SHALL BE NO LESS THAN 42" DEEP AND NO DEEPER THAN 54" WITHOUT I.A.W.C. APPROVAL.

I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V24	MJ GATE VALVE, 12"	-	-
F1	MJ 22.5' ELBOW, 12"	-	-
F2	MJ 22.5' ELBOW, 12"	-	-
EXV1	EX. 12" GATE VALVE (TO REMAIN)	-	-
EXV2	EX. 12" GATE VALVE (TO REMAIN)	-	-
EXV3	EX. 12" GATE VALVE (TO REMAIN)	-	-
EXV4	EX. 12" GATE VALVE (TO REMAIN)	-	-
EXC1	EX. 12"x12"x12"x12" MJ CROSS	-	-
EXF1	EX. 12" MJ CAP (TO REMAIN IN PLACE)	-	-
EXF2	EX. 12" MJ CAP (TO BE REMOVED)	-	-

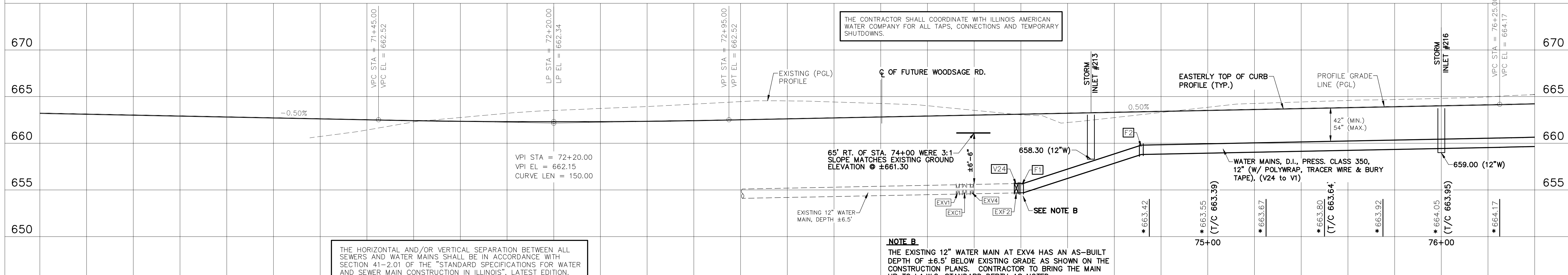
* RESTRAINED JOINTS SHALL BE FIELD LOK OR UNI-FLANGE AND USED AT ALL TEES, VALVES, AND ELBOWS.

I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
EXH1	EXISTING HYDRANT (TO REMAIN)	-	-

NOTE A
THE CONTRACTOR SHALL LOCATE THE END OF THE EXISTING 12" WATER MAIN STUB, REMOVE THE EXISTING 12" MJ CAP, AND CONNECT WITH PROPOSED MJ GATE VALVE, 12", AND MJ 22.5' ELBOW, 12". THE CONTRACTOR SHALL PLACE FIELD LOK GASKETS PER MANUFACTURER'S RECOMMENDATIONS BEFORE AND AFTER EACH FITTING. THE COST OF THE FIELD LOK GASKETS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR 12" WATER MAIN AS NOTED ON THE "MASTER PIPE LINE AGREEMENT".

NOTE B
THE EXISTING 12" WATER MAIN AT EXV4 HAS AN AS-BUILT DEPTH OF ±6.5' BELOW EXISTING GRADE. CONTRACTOR TO BRING THE MAIN UP TO I.A.W.C. STANDARD DEPTH AS NOTED.

SCALES:
1" = 20' HOR
1" = 5' VER



THE HORIZONTAL AND/OR VERTICAL SEPARATION BETWEEN ALL SEWERS AND WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.01 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.

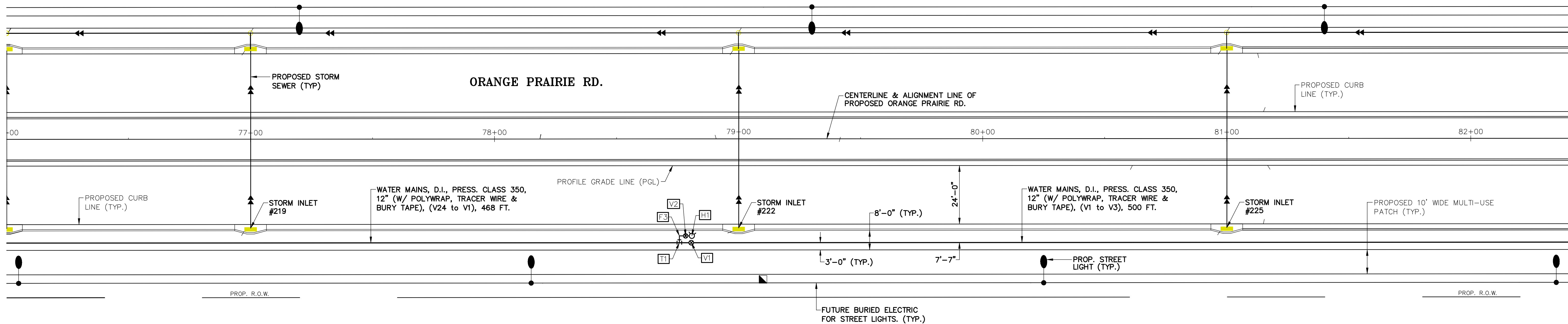
NOTE B
THE EXISTING 12" WATER MAIN AT EXV4 HAS AN AS-BUILT DEPTH OF ±6.5' BELOW EXISTING GRADE AS SHOWN ON THE CONSTRUCTION PLANS. CONTRACTOR TO BRING THE MAIN UP TO I.A.W.C. STANDARD DEPTH AS NOTED.

* THE PROPOSED PROFILE ELEVATIONS SHOWN ARE ALONG THE PROFILE GRADE LINE (P.G.L.) AS NOTED ABOVE.

THE PROPOSED WATER MAIN IS SHOWN AT A 42" BURY BELOW THE PROPOSED EASTERLY TOP OF CURB. THE PROPOSED TOP OF CURB PROFILE IS NOTED, AND WAS CALCULATED USING FARNSWORTH GROUPS PROFILE GROUND LINE (P.G.L.) FROM RT. STA. 74+00 TO RT. STA. 96+00 OF THE ORANGE PRAIRIE ROAD EXTENSION CONSTRUCTION PLANS.

CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

 ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA LICENSE No. 184-001143 ILLINOIS			
DATE: 1/29/13		REVISION	PROJECT NUMBER
		REVISION	SHEET NO. 3 OF 16



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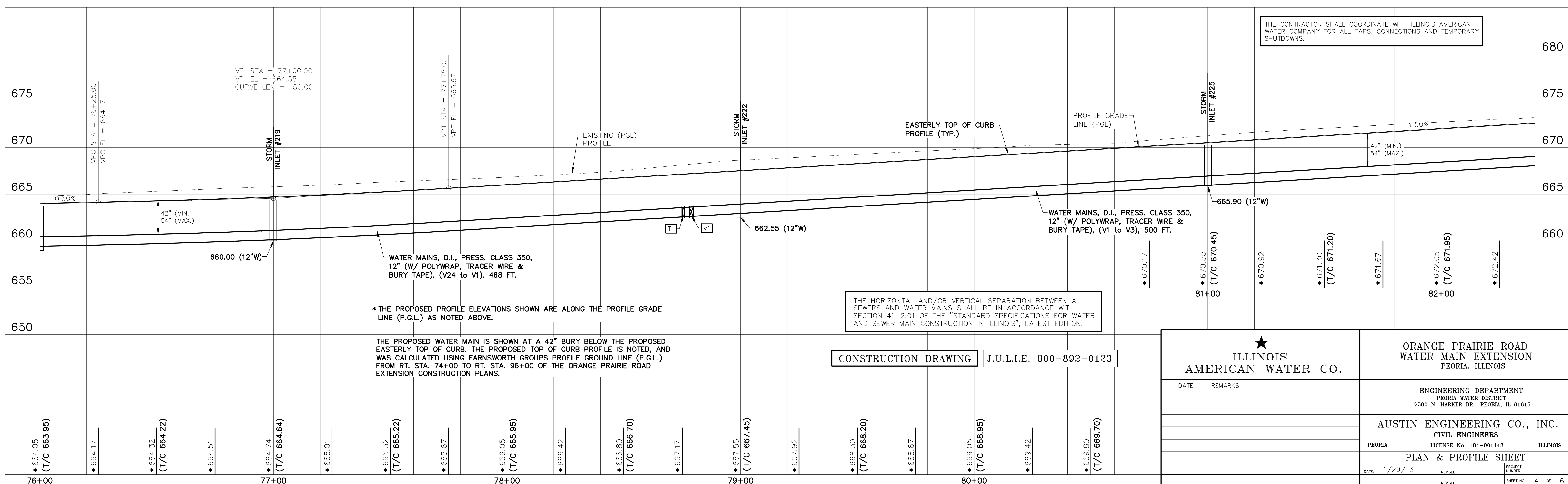
I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V1	MJ GATE VALVE & BOX, 12"	-	-
V2	MJ GATE VALVE & BOX, 6"	-	-
T1	MJ TEE, 12" x 6"	-	-
F3	MJ 90° ELBOW, 6"	-	-

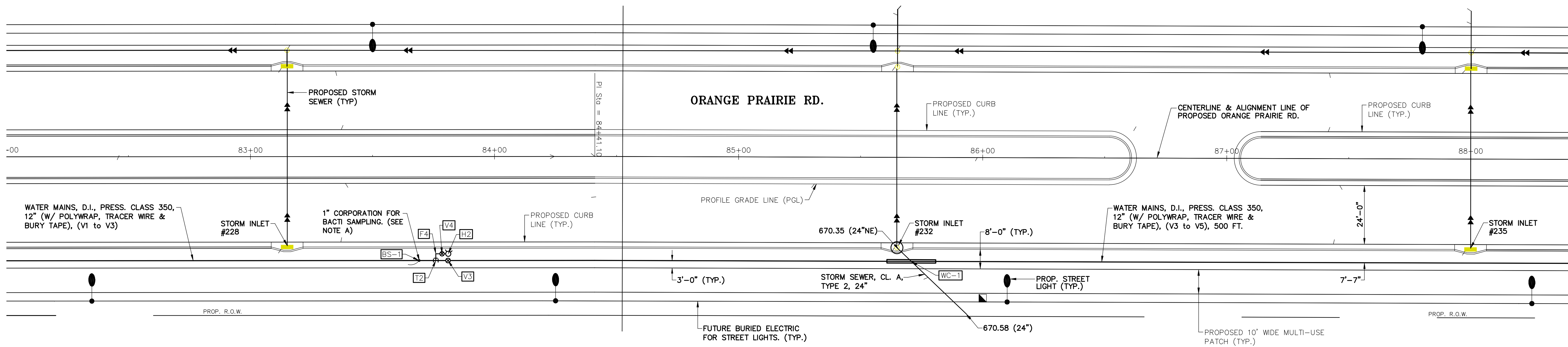
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THE CONTRACTOR SHALL INSTALL FIELD LOK GASKETS PER MANUFACTURERS RECOMMENDATIONS BEFORE AND AFTER EACH FITTING. THE COST OF THE FIELD LOK GASKETS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR 12" WATER MAIN AS NOTED ON THE "MASTER PIPE LINE AGREEMENT".

I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H1	MUELLER HYDRANT, 6"	-	-

SCALES:
1" = 20' HOR
1" = 5' VER





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I.D. NUMBER	WATER MAIN CROSSINGS AT STORM & SANITARY SEWERS	ENCASED	ENCASEMENT LENGTH	SEPARATION	NORTHING	EASTING
WC-1	ABOVE PROPOSED 24", STORM SEWER	YES	20 FT.	<18"	-	-

I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H2	MUELLER HYDRANT, 6"	-	-

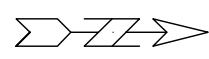
NOTE A:

THE CONTRACTOR SHALL INSTALL A 1" CORPORATION, AND 1" POLY LINE FOR BACTI SAMPLING THE NEW MAIN. THE SAMPLE LOCATIONS TO BE APPROVED BY I.A.W.C. PRIOR TO CONSTRUCTING, AND SHALL REMAIN CLOSED AFTER TESTING AND SAMPLES HAVE PASSED. THE CONTRACTOR SHALL REMOVE THE 1" PIECE OF POLY PIPE, AND STUB OUT A CRIMPED PIECE OF 1" COPPER. THIS WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE MAIN SAMPLING. THE LOCATIONS OF THE CORPORATIONS SHALL BE NOTED ON THE AS-BUILT PLANS, AND MAY BE USED AS FUTURE SERVICES IF APPROVED BY I.A.W.C.

I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V3	MJ GATE VALVE & BOX, 12"	-	-
V4	MJ GATE VALVE & BOX, 6"	-	-
T2	MJ TEE, 12" x 6"	-	-
F4	MJ 90° ELBOW, 6"	-	-
BS-1	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

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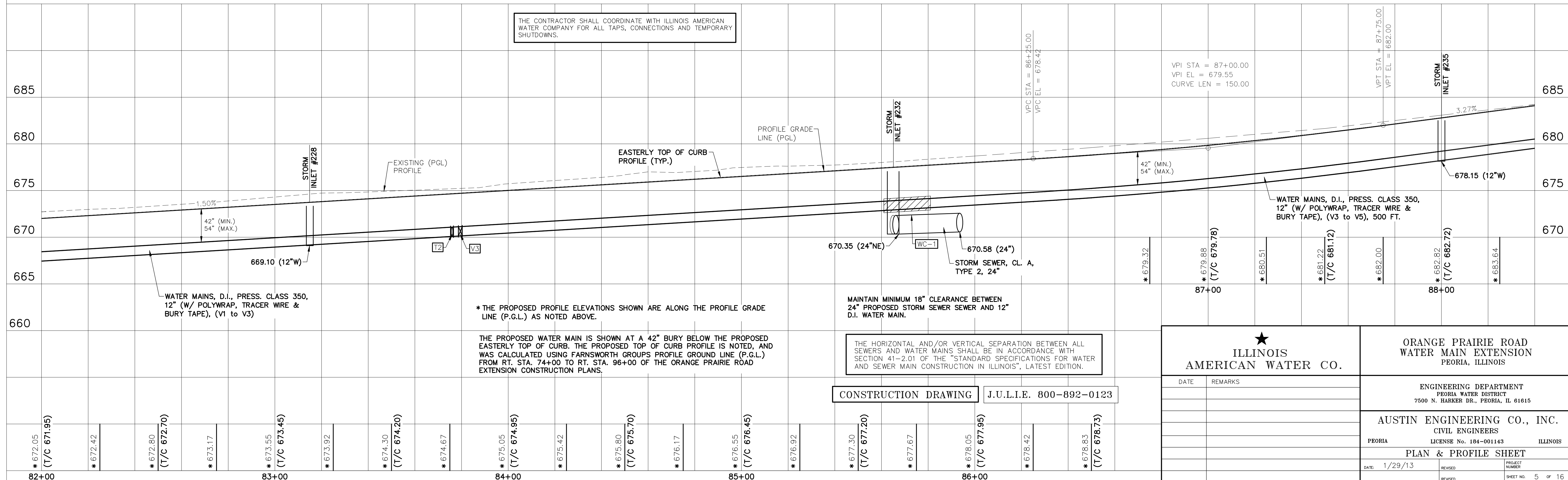
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SCALE:

1" = 20' HOR

1" = 5' VER



THE CONTRACTOR SHALL COORDINATE WITH ILLINOIS AMERICAN WATER COMPANY FOR ALL TAPS, CONNECTIONS AND TEMPORARY SHUTDOWNS.

* THE PROPOSED PROFILE ELEVATIONS SHOWN ARE ALONG THE PROFILE GRADE LINE (P.G.L.) AS NOTED ABOVE.

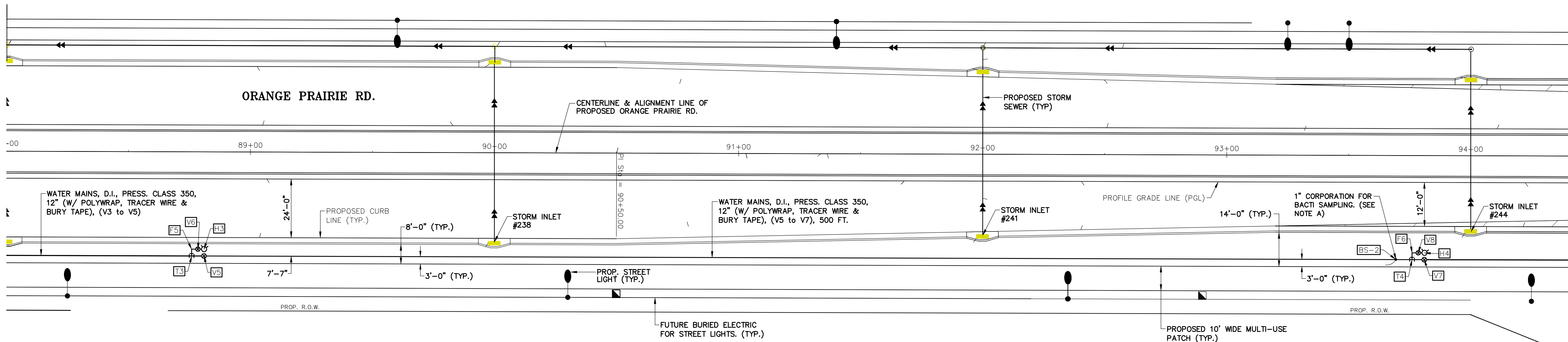
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MAINTAIN MINIMUM 18" CLEARANCE BETWEEN 24" PROPOSED STORM SEWER AND 12" D.I. WATER MAIN.

THE HORIZONTAL AND/OR VERTICAL SEPARATION BETWEEN ALL SEWERS AND WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.01 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.

CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA LICENSE NO. 184-001143 ILLINOIS			
PLAN & PROFILE SHEET			
DATE: 1/29/13	REVISED	PROJECT NUMBER	SHEET NO. 5 OF 16



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V6	MJ GATE VALVE & BOX, 6"	-	-
V7	MJ GATE VALVE & BOX, 12"	-	-
V8	MJ GATE VALVE & BOX, 6"	-	-
T3	MJ TEE, 12" x 6"	-	-
T4	MJ TEE, 12" x 6"	-	-
F5	MJ 90° ELBOW, 6"	-	-
F6	MJ 90° ELBOW, 6"	-	-
BS-2	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
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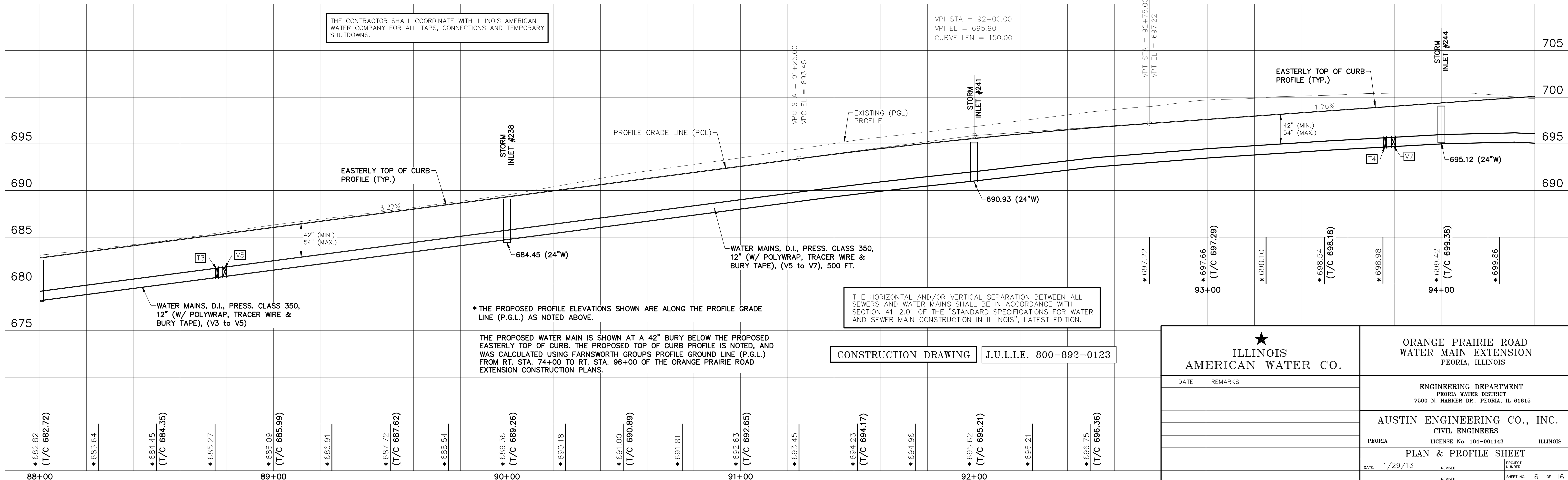
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NOTE A:

THE CONTRACTOR SHALL INSTALL A 1" CORPORATION, AND 1" POLY LINE FOR BACTI SAMPLING THE NEW MAIN. THE SAMPLE LOCATIONS TO BE APPROVED BY I.A.W.C. PRIOR TO CONSTRUCTING, AND SHALL REMAIN CLOSED AFTER TESTING AND SAMPLES HAVE PASSED. THE CONTRACTOR SHALL REMOVE THE 1" PIECE OF POLY PIPE, AND STUB OUT A CRIMPED PIECE OF 1" COPPER. THIS WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE MAIN SAMPLING. THE LOCATIONS OF THE CORPORATIONS SHALL BE NOTED ON THE AS-BUILT PLANS, AND MAY BE USED AS FUTURE SERVICES IF APPROVED BY I.A.W.C.

SCALES:
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1" = 5' VER



THE CONTRACTOR SHALL COORDINATE WITH ILLINOIS AMERICAN WATER COMPANY FOR ALL TAPS, CONNECTIONS AND TEMPORARY SHUTDOWNS.

VPI STA = 92+00.00
VPI EL = 695.90
CURVE LEN = 150.00

VPC STA = 91+25.00
VPC EL = 693.45

VPT STA = 92+75.00
VPT EL = 697.22

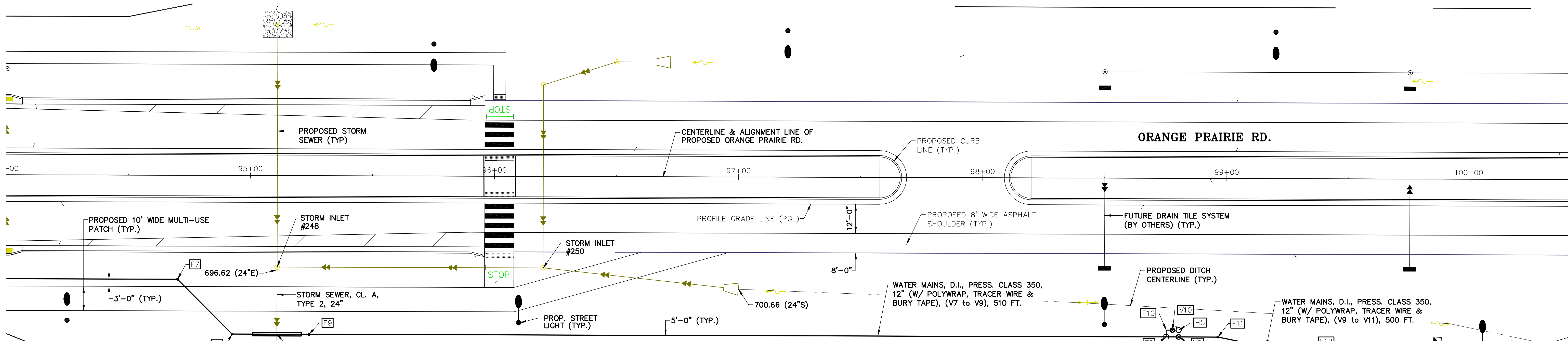
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CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

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DATE: 1/29/13	REVISED:	PROJECT NUMBER:	SHEET NO. 6 OF 16



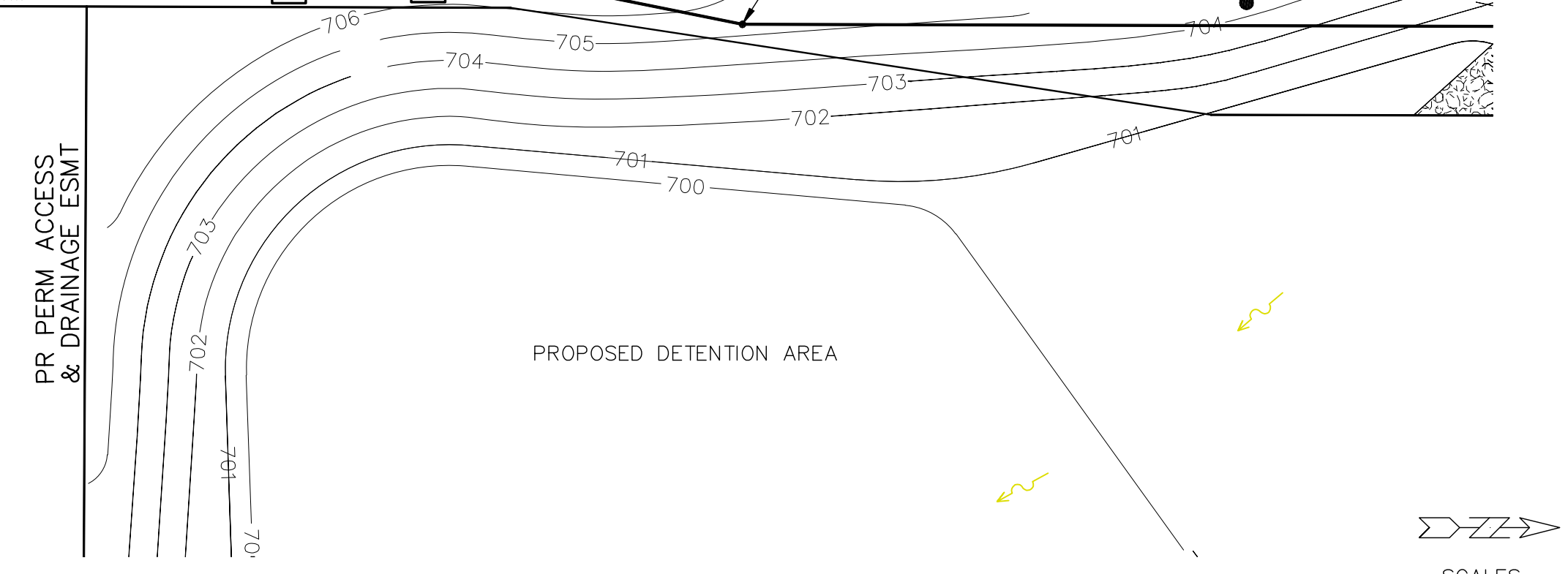
I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V9	MJ GATE VALVE & BOX, 12"	-	-
V10	MJ GATE VALVE & BOX, 6"	-	-
T5	MJ TEE, 12" x 6"	-	-
F7	MJ 45° ELBOW, 12"	-	-
F8	MJ 45° ELBOW, 12"	-	-
F9	MJ 22.5° ELBOW, 12"	-	-
F10	MJ 90° ELBOW, 6"	-	-
F11	MJ 11.25° ELBOW, 12"	-	-
F12	MJ 11.25° ELBOW, 12"	-	-

* RESTRAINED JOINTS SHALL BE FIELD LOK OR UNI-FLANGE AND USED AT ALL TEES, VALVES, AND ELBOWS.
 THE CONTRACTOR SHALL INSTALL FIELD LOK GASKETS PER MANUFACTURES RECOMMENDATIONS BEFORE AND AFTER EACH FITTING. THE COST OF THE FIELD LOK GASKETS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR 12" WATER MAIN AS NOTED ON THE "MASTER PIPE LINE AGREEMENT".

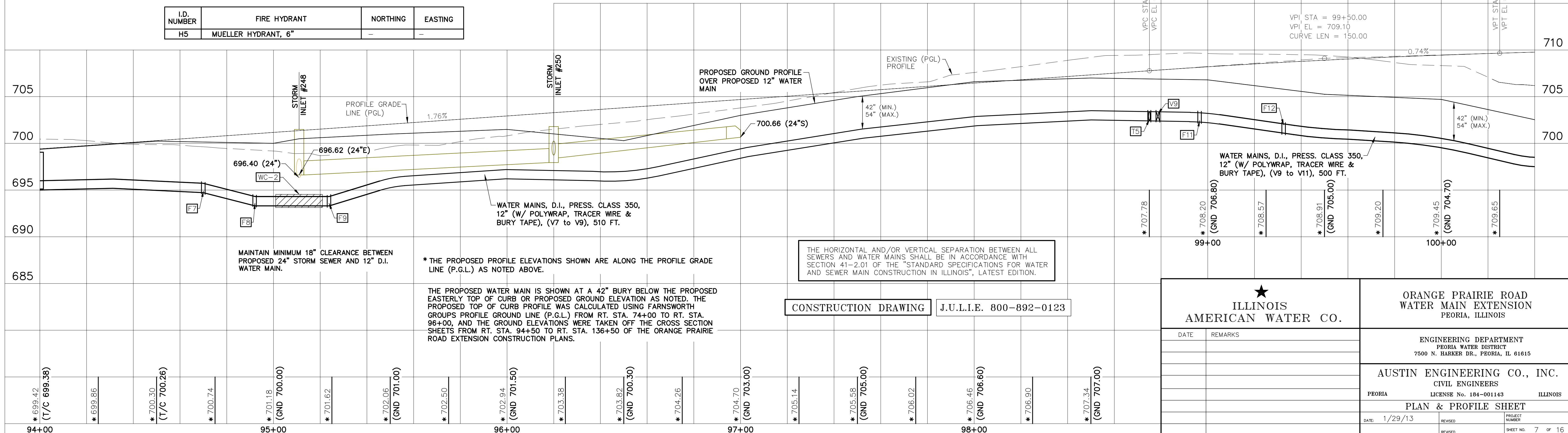
I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H5	MUELLER HYDRANT, 6"	-	-

- ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- WHERE THE WATER MAIN TRENCH CROSSES OR IS WITHIN TWO (2) FEET OF THE EDGE OF PAVEMENT, CURB, GUTTERS, CURB AND GUTTER, OR SIDEWALK, THE TRENCH SHALL BE BACKFILLED WITH A CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) IN ACCORDANCE WITH THE CITY OF PEORIA STANDARDS AND CONSTRUCTION PLANS. EARTHEN BACKFILL SHALL BE COMPACTED IN LIFTS NO GREATER THAN 1'-0" AT LOCATIONS SHOWN IN THE PLANS. IF TRENCH TESTING IS REQUIRED, TESTING SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "WATER MAINS, D.I., CL. 350, 12". ALL WORK WITHIN THE CITY OF PEORIA RIGHT-OF-WAY SHALL BE INSPECTED BY A CITY REPRESENTATIVE IF REQUIRED.
- THE CITY OF PEORIA WILL BE NOTIFIED IF ANY EXISTING FIELD TILES ARE LOCATED WHILE EXCAVATING FOR THE NEW MAIN TO DETERMINE IF THEY ARE LIVE OR DEAD. THE CITY OF PEORIA WILL DETERMINE IF THE EXISTING TILES ARE TO BE REPAIRED, PLUGGED OR TIED INTO THE PROPOSED STORM SEWER SYSTEM. THE WATER MAIN CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIRS AND ABANDONING OF THE EXISTING FIELD TILES, AND THE GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTING EXISTING TILES TO THE PROPOSED STORM SEWER SYSTEM IF SUGGESTED BY THE CITY REPRESENTATIVE. ANY REPAIRS MADE BY THE WATER MAIN CONTRACTOR SHALL BE APPROVED BY A CITY OF PEORIA REPRESENTATIVE, AND SHALL FOLLOW CITY STANDARDS. THE REPAIRS OR ABANDONING OF THE EXISTING FIELD TILES WILL BE PAID FOR UNDER THE "MASTER PIPE LINE AGREEMENT" FOR THE ITEM SPECIFIED BETWEEN THE CONTRACTOR AND I.A.W.C. THIS WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY TO COMPLETE THE REPAIR.
- WATER MAINS, UNLESS OTHERWISE NOTED IN THE PLANS SHALL BE NO LESS THAN 42" DEEP AND NO DEEPER THAN 54" WITHOUT I.A.W.C. APPROVAL.

I.D. NUMBER	WATER MAIN CROSSINGS AT STORM & SANITARY SEWERS	ENCASED	ENCASEMENT LENGTH	SEPARATION	NORTHING	EASTING
WC-2	BELOW PROPOSED RIPRAP OUTFALL	YES	20 FT.	>18"	-	-



SCALES:
 1" = 20' HOR
 1" = 5' VER



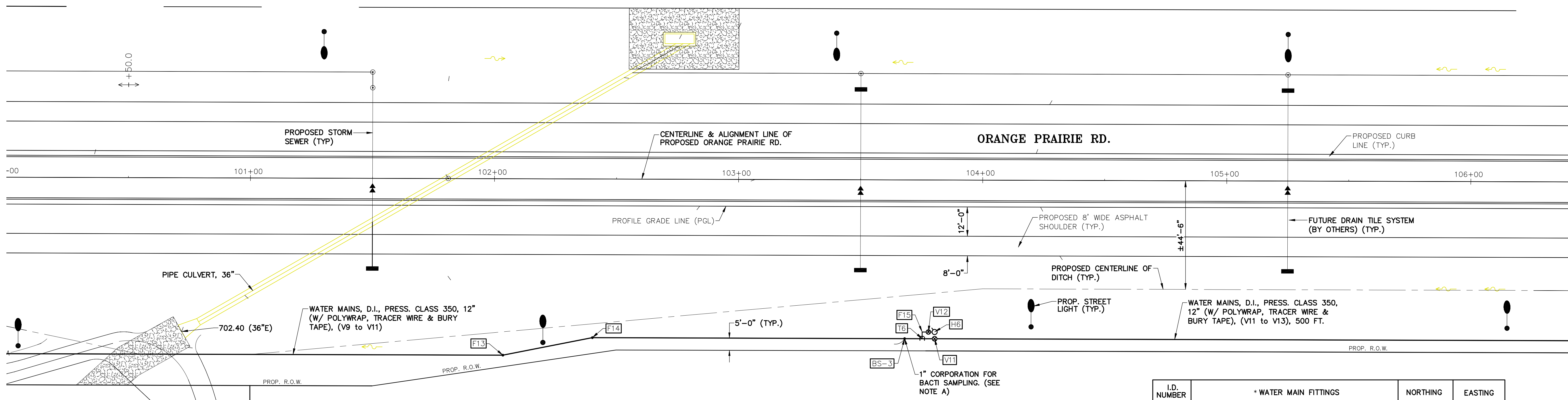
MAINTAIN MINIMUM 18" CLEARANCE BETWEEN PROPOSED 24" STORM SEWER AND 12" D.I. WATER MAIN.

* THE PROPOSED PROFILE ELEVATIONS SHOWN ARE ALONG THE PROFILE GRADE LINE (P.G.L.) AS NOTED ABOVE.

THE PROPOSED WATER MAIN IS SHOWN AT A 42" BURY BELOW THE PROPOSED EASTERLY TOP OF CURB OR PROPOSED GROUND ELEVATION, AS NOTED. THE PROPOSED TOP OF CURB PROFILE WAS CALCULATED USING FARNSWORTH GROUPS PROFILE GROUND LINE (P.G.L.) FROM RT. STA. 74+00 TO RT. STA. 96+00, AND THE GROUND ELEVATIONS WERE TAKEN OFF THE CROSS SECTION SHEETS FROM RT. STA. 94+50 TO RT. STA. 136+50 OF THE ORANGE PRAIRIE ROAD EXTENSION CONSTRUCTION PLANS.

CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

 ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA LICENSE No. 184-001143 ILLINOIS			
DATE: 1/29/13		REVISION	PROJECT NUMBER
		REVISION	SHEET NO. 7 OF 16



NOTE A:
 THE CONTRACTOR SHALL INSTALL A 1" CORPORATION, AND 1" POLY LINE FOR BACTI SAMPLING THE NEW MAIN. THE SAMPLE LOCATIONS TO BE APPROVED BY I.A.W.C. PRIOR TO CONSTRUCTING, AND SHALL REMAIN CLOSED AFTER TESTING AND SAMPLES HAVE PASSED. THE CONTRACTOR SHALL REMOVE THE 1" PIECE OF POLY PIPE, AND STUB OUT A CRIMPED PIECE OF 1" COPPER. THIS WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE MAIN SAMPLING. THE LOCATIONS OF THE CORPORATIONS SHALL BE NOTED ON THE AS-BUILT PLANS, AND MAY BE USED AS FUTURE SERVICES IF APPROVED BY I.A.W.C.

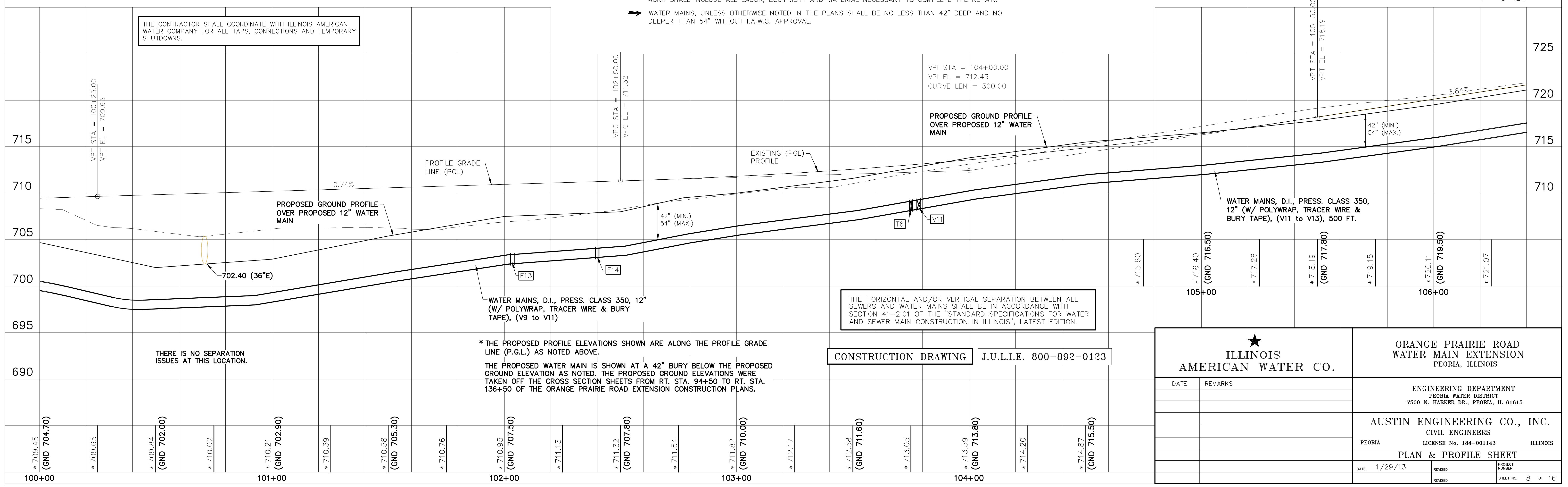
I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H6	MUELLER HYDRANT, 6"	-	-

- ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- WHERE THE WATER MAIN TRENCH CROSSES OR IS WITHIN TWO (2) FEET OF THE EDGE OF PAVEMENT, CURB, GUTTERS, CURB AND GUTTER, OR SIDEWALK, THE TRENCH SHALL BE BACKFILLED WITH A CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) IN ACCORDANCE WITH THE CITY OF PEORIA STANDARDS AND CONSTRUCTION PLANS. EARTHEN BACKFILL SHALL BE COMPACTED IN LIFTS NO GREATER THAN 1'-0" AT LOCATIONS SHOWN IN THE PLANS. IF TRENCH TESTING IS REQUIRED, TESTING SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "WATER MAINS, D.I., CL. 350, 12". ALL WORK WITHIN THE CITY OF PEORIA RIGHT-OF-WAY SHALL BE INSPECTED BY A CITY REPRESENTATIVE IF REQUIRED.
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- WATER MAINS, UNLESS OTHERWISE NOTED IN THE PLANS SHALL BE NO LESS THAN 42" DEEP AND NO DEEPER THAN 54" WITHOUT I.A.W.C. APPROVAL.

I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V11	MJ GATE VALVE & BOX, 12"	-	-
V12	MJ GATE VALVE & BOX, 6"	-	-
T6	MJ TEE, 12" x 6"	-	-
F13	MJ 11.25' ELBOW, 12"	-	-
F14	MJ 11.25' ELBOW, 12"	-	-
F15	MJ 90' ELBOW, 6"	-	-
BS-3	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

* RESTRAINED JOINTS SHALL BE FIELD LOK OR UNI-FLANGE AND USED AT ALL TEES, VALVES, AND ELBOWS.
 THE CONTRACTOR SHALL INSTALL FIELD LOK GASKETS PER MANUFACTURERS RECOMMENDATIONS BEFORE AND AFTER EACH FITTING. THE COST OF THE FIELD LOK GASKETS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR 12" WATER MAIN AS NOTED ON THE "MASTER PIPE LINE AGREEMENT".

SCALES:
 1" = 20' HOR
 1" = 5' VER



THE CONTRACTOR SHALL COORDINATE WITH ILLINOIS AMERICAN WATER COMPANY FOR ALL TAPS, CONNECTIONS AND TEMPORARY SHUTDOWNS.

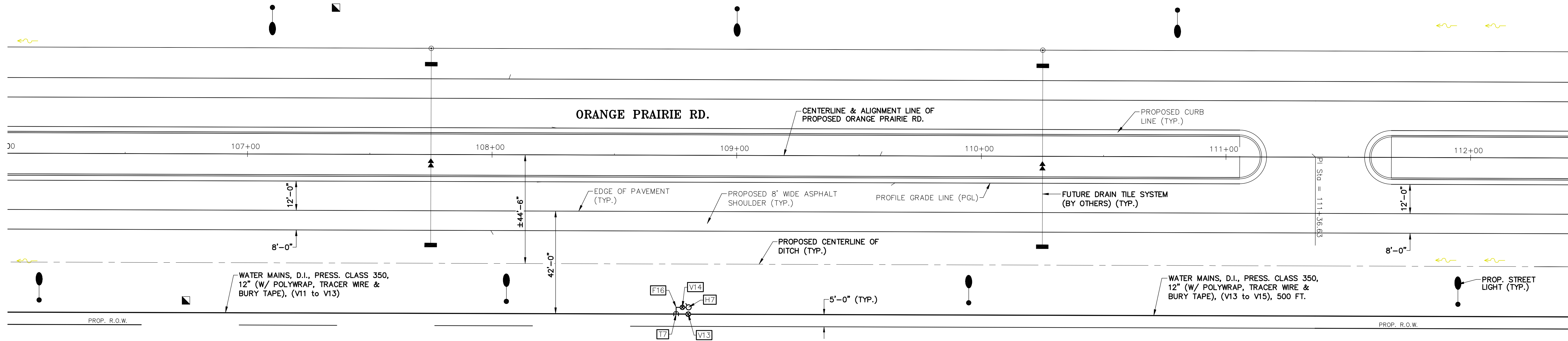
THERE IS NO SEPARATION ISSUES AT THIS LOCATION.

* THE PROPOSED PROFILE ELEVATIONS SHOWN ARE ALONG THE PROFILE GRADE LINE (P.G.L.) AS NOTED ABOVE.
 THE PROPOSED WATER MAIN IS SHOWN AT A 42" BURY BELOW THE PROPOSED GROUND ELEVATION AS NOTED. THE PROPOSED GROUND ELEVATIONS WERE TAKEN OFF THE CROSS SECTION SHEETS FROM RT. STA. 94+50 TO RT. STA. 136+50 OF THE ORANGE PRAIRIE ROAD EXTENSION CONSTRUCTION PLANS.

THE HORIZONTAL AND/OR VERTICAL SEPARATION BETWEEN ALL SEWERS AND WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.01 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.

CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

 ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE: _____ REMARKS: _____		ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615	
		AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143	
		PLAN & PROFILE SHEET	
		DATE: 1/29/13	PROJECT NUMBER: _____
		REVISED: _____	SHEET NO. 8 OF 16



- ➔ ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- ➔ WHERE THE WATER MAIN TRENCH CROSSES OR IS WITHIN TWO (2) FEET OF THE EDGE OF PAVEMENT, CURB, GUTTERS, CURB AND GUTTER, OR SIDEWALK, THE TRENCH SHALL BE BACKFILLED WITH A CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) IN ACCORDANCE WITH THE CITY OF PEORIA STANDARDS AND CONSTRUCTION PLANS. EARTHEN BACKFILL SHALL BE COMPACTED IN LIFTS NO GREATER THAN 1'-0" AT LOCATIONS SHOWN IN THE PLANS. IF TRENCH TESTING IS REQUIRED, TESTING SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "WATER MAINS, D.I., CL. 350, 12". ALL WORK WITHIN THE CITY OF PEORIA RIGHT-OF-WAY SHALL BE INSPECTED BY A CITY REPRESENTATIVE IF REQUIRED.
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- ➔ WATER MAINS, UNLESS OTHERWISE NOTED IN THE PLANS SHALL BE NO LESS THAN 42" DEEP AND NO DEEPER THAN 54" WITHOUT I.A.W.C. APPROVAL.

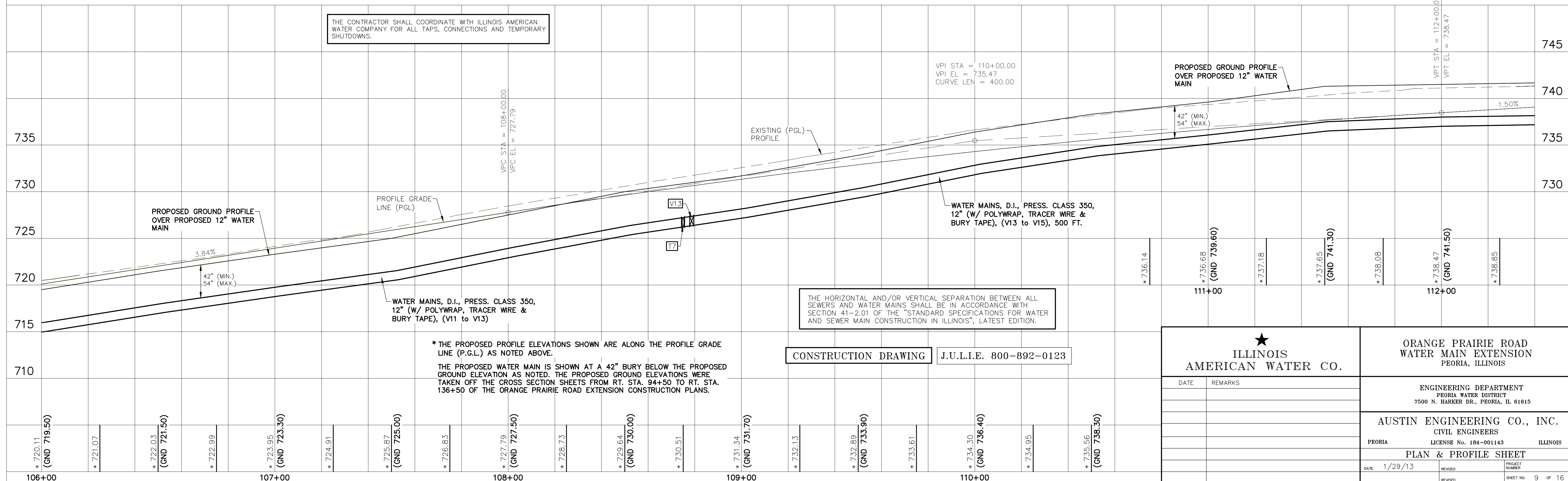
I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V13	MJ GATE VALVE & BOX, 12"	-	-
V14	MJ GATE VALVE & BOX, 6"	-	-
T7	MJ TEE, 12" x 6"	-	-
F16	MJ 90° ELBOW, 6"	-	-

* RESTRAINED JOINTS SHALL BE FIELD LOK OR UNI-FLANGE AND USED AT ALL TEES, VALVES, AND ELBOWS.

THE CONTRACTOR SHALL INSTALL FIELD LOK GASKETS PER MANUFACTURES RECOMMENDATIONS BEFORE AND AFTER EACH FITTING. THE COST OF THE FIELD LOK GASKETS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR 12" WATER MAIN AS NOTED ON THE "MASTER PIPE LINE AGREEMENT".

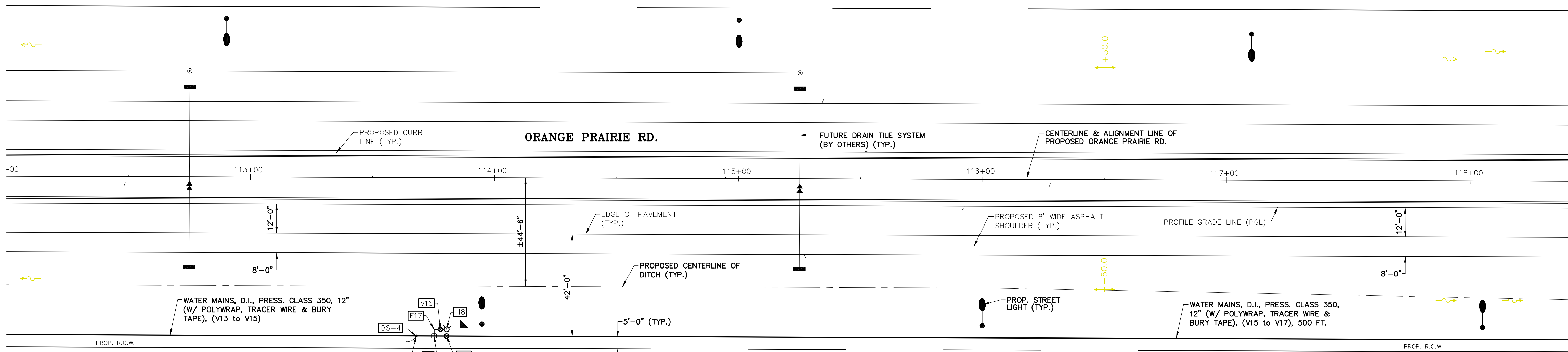
I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H7	MUELLER HYDRANT, 6"	-	-

SCALES:
1" = 20' HOR
1" = 5' VER



CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA LICENSE No. 184-001143 ILLINOIS			
PLAN & PROFILE SHEET			
DATE: 1/29/13	REVISED:	PROJECT NUMBER:	SHEET NO. 9 OF 16



- ➔ ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
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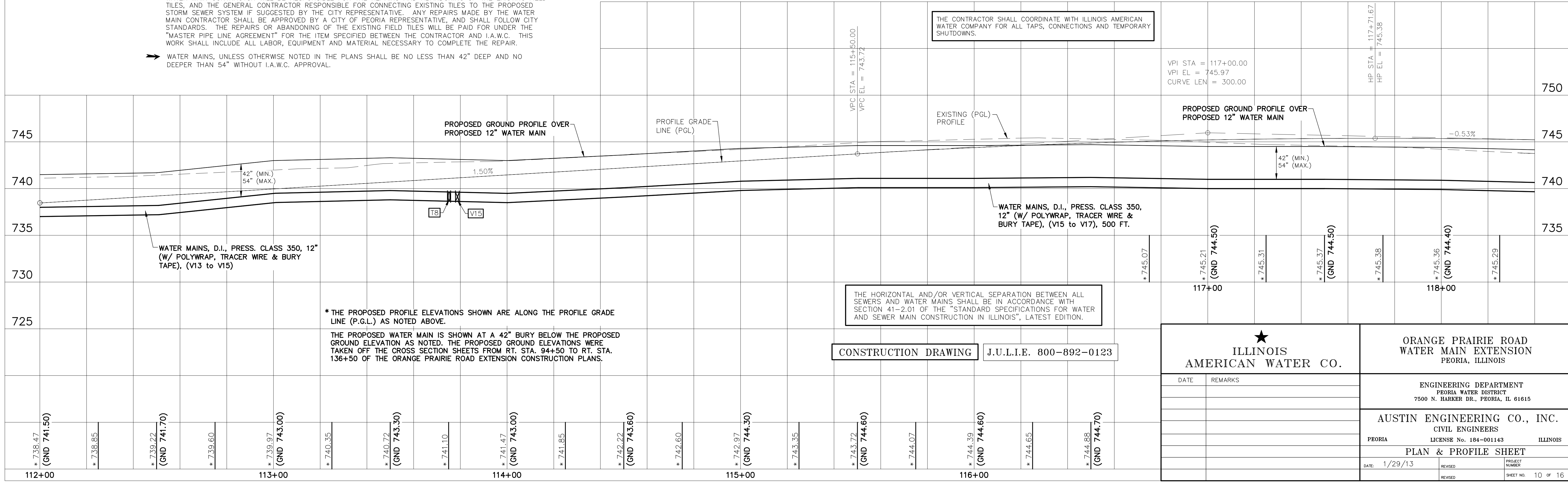
I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H8	MUELLER HYDRANT, 6"	-	-

NOTE A:
 THE CONTRACTOR SHALL INSTALL A 1" CORPORATION, AND 1" POLY LINE FOR BACTI SAMPLING THE NEW MAIN. THE SAMPLE LOCATIONS TO BE APPROVED BY I.A.W.C. PRIOR TO CONSTRUCTING, AND SHALL REMAIN CLOSED AFTER TESTING AND SAMPLES HAVE PASSED. THE CONTRACTOR SHALL REMOVE THE 1" PIECE OF POLY PIPE, AND STUB OUT A CRIMPED PIECE OF 1" COPPER. THIS WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE MAIN SAMPLING. THE LOCATIONS OF THE CORPORATIONS SHALL BE NOTED ON THE AS-BUILT PLANS, AND MAY BE USED AS FUTURE SERVICES IF APPROVED BY I.A.W.C.

I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V15	MJ GATE VALVE & BOX, 12"	-	-
V16	MJ GATE VALVE & BOX, 6"	-	-
T8	MJ TEE, 12" x 6"	-	-
F17	MJ 90° ELBOW, 6"	-	-
BS-4	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

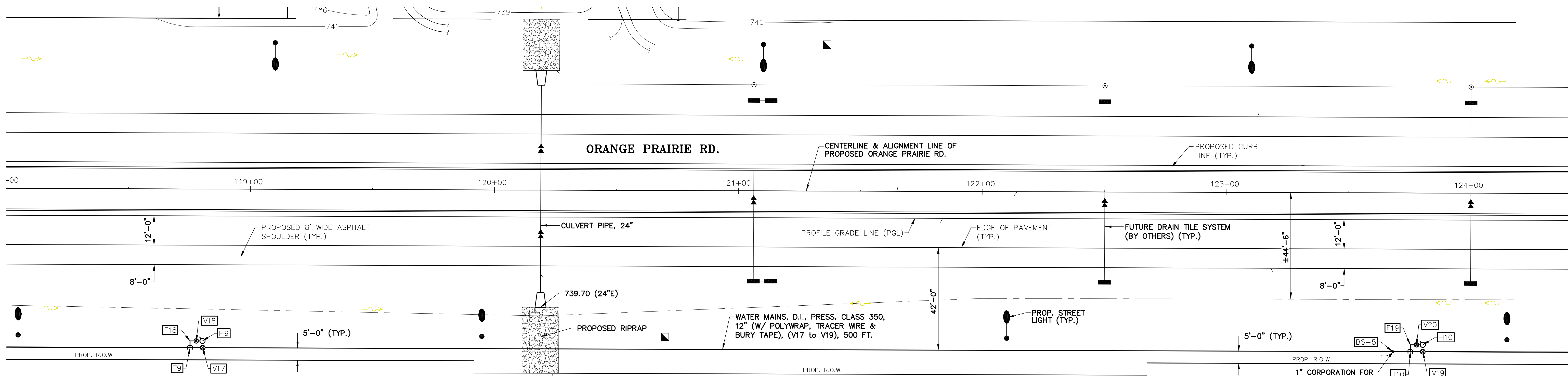
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SCALES:
 1" = 20' HOR
 1" = 5' VER



CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143			
PLAN & PROFILE SHEET			
DATE: 1/29/13	REVISED:	PROJECT NUMBER:	SHEET NO. 10 OF 16



I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H9	MUELLER HYDRANT, 6"	-	-
H10	MUELLER HYDRANT, 6"	-	-

I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V17	MJ GATE VALVE & BOX, 12"	-	-
V18	MJ GATE VALVE & BOX, 6"	-	-
V19	MJ GATE VALVE & BOX, 12"	-	-
V20	MJ GATE VALVE & BOX, 6"	-	-
T9	MJ TEE, 12" x 6"	-	-
T10	MJ TEE, 12" x 6"	-	-
F18	MJ 90° ELBOW, 6"	-	-
F19	MJ 90° ELBOW, 6"	-	-
BS-5	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

NOTE A:

THE CONTRACTOR SHALL INSTALL A 1" CORPORATION, AND 1" POLY LINE FOR BACTI SAMPLING THE NEW MAIN. THE SAMPLE LOCATIONS TO BE APPROVED BY I.A.W.C. PRIOR TO CONSTRUCTING, AND SHALL REMAIN CLOSED AFTER TESTING AND SAMPLES HAVE PASSED. THE CONTRACTOR SHALL REMOVE THE 1" PIECE OF POLY PIPE, AND STUB OUT A CRIMPED PIECE OF 1" COPPER. THIS WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE MAIN SAMPLING. THE LOCATIONS OF THE CORPORATIONS SHALL BE NOTED ON THE AS-BUILT PLANS, AND MAY BE USED AS FUTURE SERVICES IF APPROVED BY I.A.W.C.

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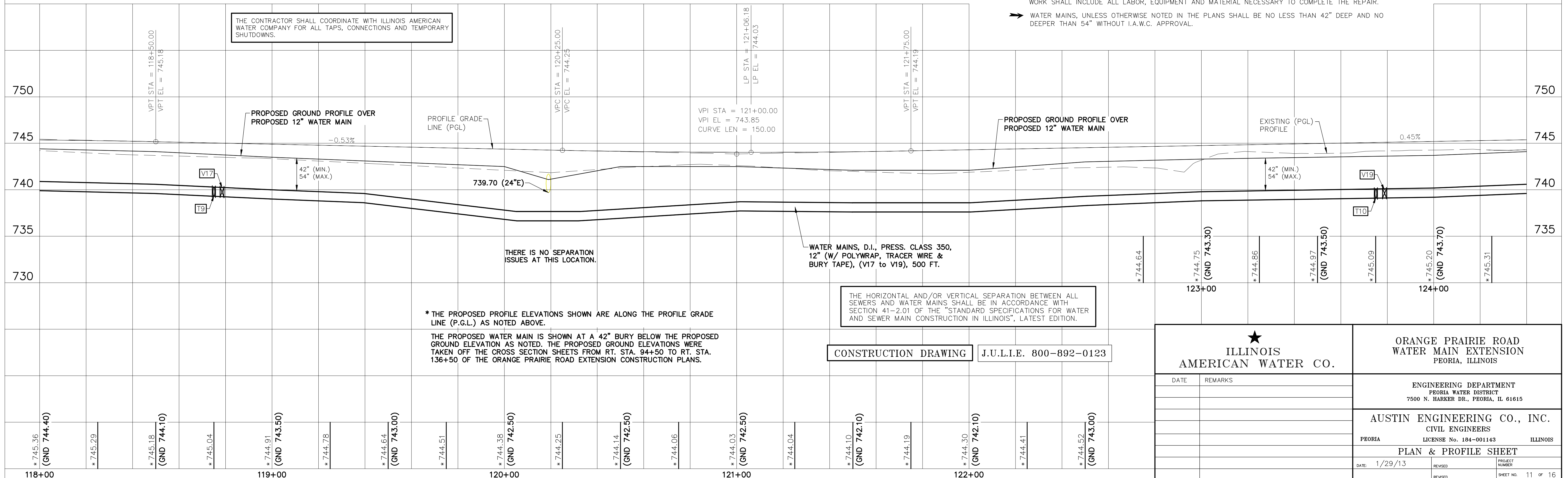
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➔ WATER MAINS, UNLESS OTHERWISE NOTED IN THE PLANS SHALL BE NO LESS THAN 42" DEEP AND NO DEEPER THAN 54" WITHOUT I.A.W.C. APPROVAL.



SCALE:
1" = 20' HOR
1" = 5' VER



THE CONTRACTOR SHALL COORDINATE WITH ILLINOIS AMERICAN WATER COMPANY FOR ALL TAPS, CONNECTIONS AND TEMPORARY SHUTDOWNS.

THERE IS NO SEPARATION ISSUES AT THIS LOCATION.

WATER MAINS, D.I., PRESS. CLASS 350, 12" (W/ POLYWRAP, TRACER WIRE & BURY TAPE), (V17 TO V19), 500 FT.

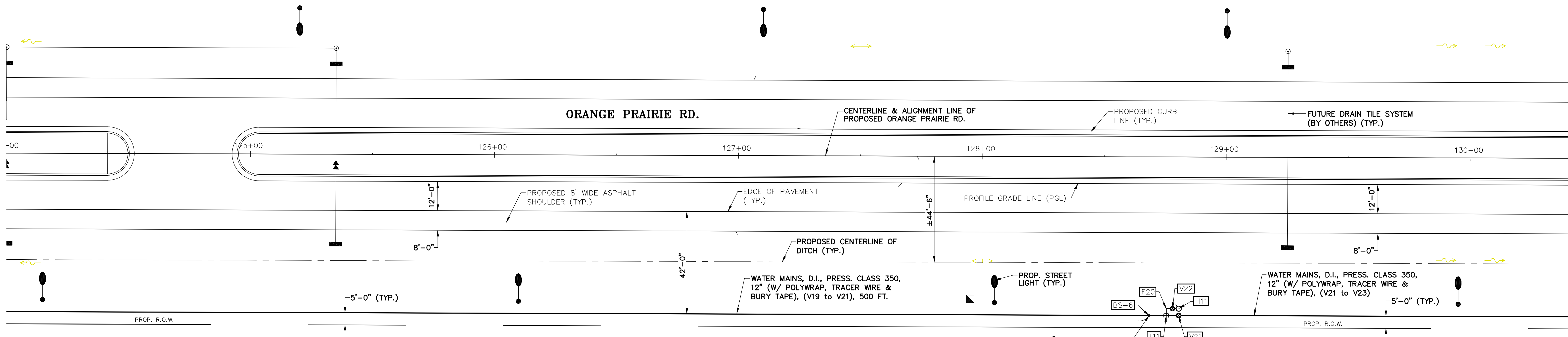
THE HORIZONTAL AND/OR VERTICAL SEPARATION BETWEEN ALL SEWERS AND WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.01 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.

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THE PROPOSED WATER MAIN IS SHOWN AT A 42" BURY BELOW THE PROPOSED GROUND ELEVATION AS NOTED. THE PROPOSED GROUND ELEVATIONS WERE TAKEN OFF THE CROSS SECTION SHEETS FROM RT. STA. 94+50 TO RT. STA. 136+50 OF THE ORANGE PRAIRIE ROAD EXTENSION CONSTRUCTION PLANS.

CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

<p>ILLINOIS AMERICAN WATER CO.</p>		<p>ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS</p>	
<p>DATE</p>		<p>REMARKS</p>	
<p>ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615</p>			
<p>AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS</p>			
<p>PEORIA</p>		<p>ILLINOIS</p>	
<p>PLAN & PROFILE SHEET</p>			
<p>DATE: 1/29/13</p>		<p>PROJECT NUMBER</p>	
<p>REVISION</p>		<p>SHEET NO. 11 OF 16</p>	



- ➔ ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- ➔ WHERE THE WATER MAIN TRENCH CROSSES OR IS WITHIN TWO (2) FEET OF THE EDGE OF PAVEMENT, CURB, GUTTERS, CURB AND GUTTER, OR SIDEWALK, THE TRENCH SHALL BE BACKFILLED WITH A CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) IN ACCORDANCE WITH THE CITY OF PEORIA STANDARDS AND CONSTRUCTION PLANS. EARTHEN BACKFILL SHALL BE COMPACTED IN LIFTS NO GREATER THAN 1'-0" AT LOCATIONS SHOWN IN THE PLANS. IF TRENCH TESTING IS REQUIRED, TESTING SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "WATER MAINS, D.I., CL. 350, 12". ALL WORK WITHIN THE CITY OF PEORIA RIGHT-OF-WAY SHALL BE INSPECTED BY A CITY REPRESENTATIVE IF REQUIRED.
- ➔ THE CITY OF PEORIA WILL BE NOTIFIED IF ANY EXISTING FIELD TILES ARE LOCATED WHILE EXCAVATING FOR THE NEW MAIN TO DETERMINE IF THEY ARE LIVE OR DEAD. THE CITY OF PEORIA WILL DETERMINE IF THE EXISTING TILES ARE TO BE REPAIRED, PLUGGED OR TIED INTO THE PROPOSED STORM SEWER SYSTEM. THE WATER MAIN CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIRS AND ABANDONING OF THE EXISTING FIELD TILES, AND THE GENERAL CONTRACTOR RESPONSIBLE FOR CONNECTING EXISTING TILES TO THE PROPOSED STORM SEWER SYSTEM IF SUGGESTED BY THE CITY REPRESENTATIVE. ANY REPAIRS MADE BY THE WATER MAIN CONTRACTOR SHALL BE APPROVED BY A CITY OF PEORIA REPRESENTATIVE, AND SHALL FOLLOW CITY STANDARDS. THE REPAIRS OR ABANDONING OF THE EXISTING FIELD TILES WILL BE PAID FOR UNDER THE "MASTER PIPE LINE AGREEMENT" FOR THE ITEM SPECIFIED BETWEEN THE CONTRACTOR AND I.A.W.C. THIS WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY TO COMPLETE THE REPAIR.
- ➔ WATER MAINS, UNLESS OTHERWISE NOTED IN THE PLANS SHALL BE NO LESS THAN 42" DEEP AND NO DEEPER THAN 54" WITHOUT I.A.W.C. APPROVAL.

I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H11	MUELLER HYDRANT, 6"	-	-

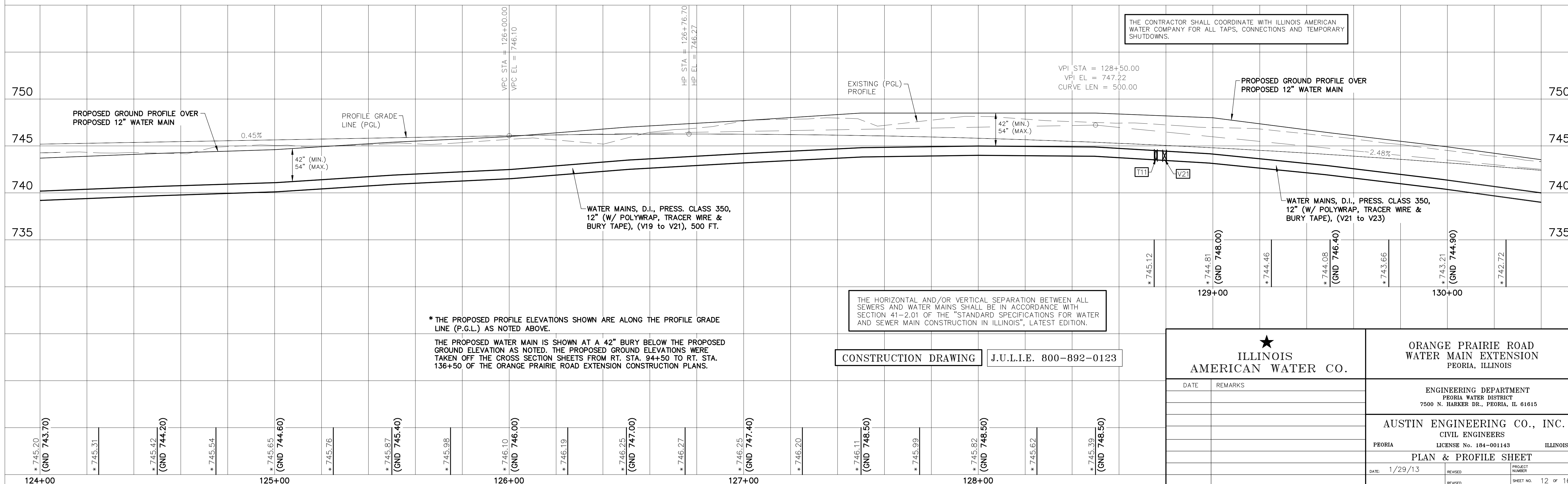
NOTE A:
 THE CONTRACTOR SHALL INSTALL A 1" CORPORATION, AND 1" POLY LINE FOR BACTI SAMPLING THE NEW MAIN. THE SAMPLE LOCATIONS TO BE APPROVED BY I.A.W.C. PRIOR TO CONSTRUCTING, AND SHALL REMAIN CLOSED AFTER TESTING AND SAMPLES HAVE PASSED. THE CONTRACTOR SHALL REMOVE THE 1" PIECE OF POLY PIPE, AND STUB OUT A CRIMPED PIECE OF 1" COPPER. THIS WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE MAIN SAMPLING. THE LOCATIONS OF THE CORPORATIONS SHALL BE NOTED ON THE AS-BUILT PLANS, AND MAY BE USED AS FUTURE SERVICES IF APPROVED BY I.A.W.C.

I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V21	MJ GATE VALVE & BOX, 12"	-	-
V22	MJ GATE VALVE & BOX, 6"	-	-
T11	MJ TEE, 12" x 6"	-	-
F20	MJ 90° ELBOW, 6"	-	-
BS-6	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

* RESTRAINED JOINTS SHALL BE FIELD LOK OR UNI-FLANGE AND USED AT ALL TEES, VALVES, AND ELBOWS.

THE CONTRACTOR SHALL INSTALL FIELD LOK GASKETS PER MANUFACTURERS RECOMMENDATIONS BEFORE AND AFTER EACH FITTING. THE COST OF THE FIELD LOK GASKETS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR 12" WATER MAIN AS NOTED ON THE "MASTER PIPE LINE AGREEMENT".

SCALES:
 1" = 20' HOR
 1" = 5' VER



* THE PROPOSED PROFILE ELEVATIONS SHOWN ARE ALONG THE PROFILE GRADE LINE (P.G.L.) AS NOTED ABOVE.

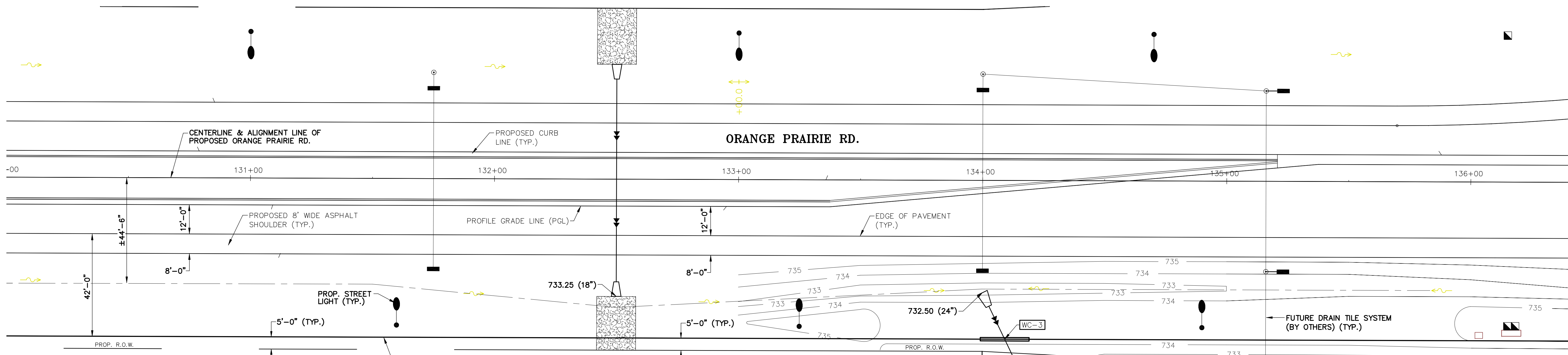
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THE HORIZONTAL AND/OR VERTICAL SEPARATION BETWEEN ALL SEWERS AND WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.01 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.

THE CONTRACTOR SHALL COORDINATE WITH ILLINOIS AMERICAN WATER COMPANY FOR ALL TAPS, CONNECTIONS AND TEMPORARY SHUTDOWNS.

CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

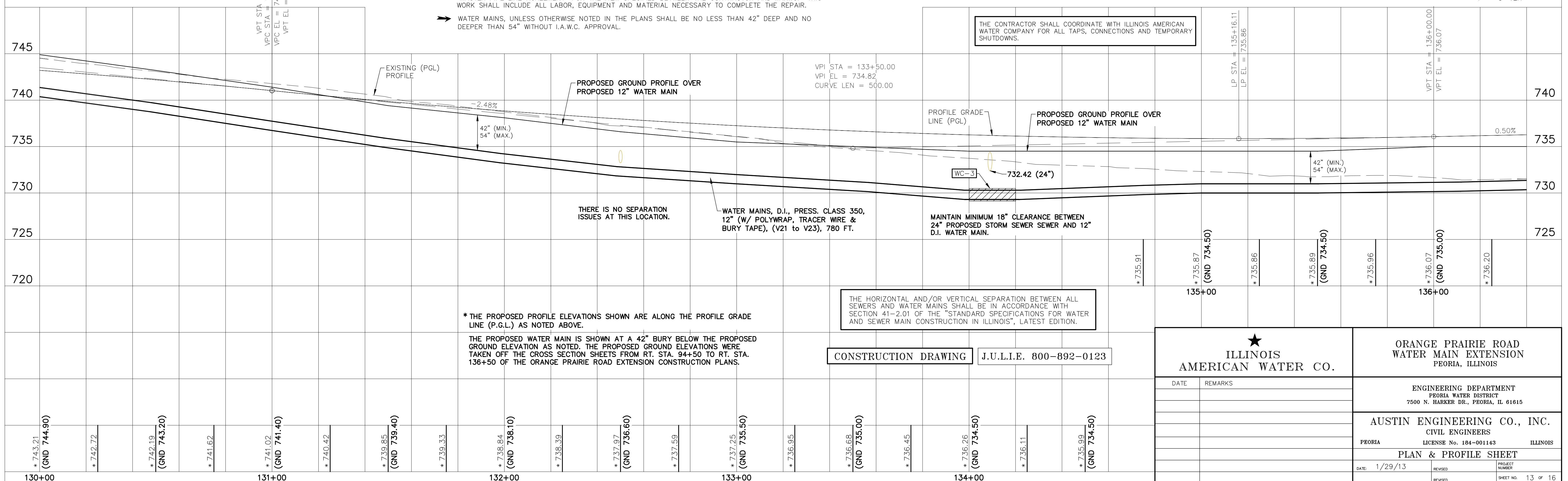
 ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143			
PLAN & PROFILE SHEET			
DATE: 1/29/13	REVISED:	PROJECT NUMBER:	SHEET NO. 12 OF 16



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I.D. NUMBER	WATER MAIN CROSSINGS AT STORM & SANITARY SEWERS	ENCASED	ENCASEMENT LENGTH	SEPARATION	NORTHING	EASTING
WC-3	BELOW PROPOSED 24" CULVERT PIPE	YES	20 FT.	>18"	-	-

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THE CONTRACTOR SHALL COORDINATE WITH ILLINOIS AMERICAN WATER COMPANY FOR ALL TAPS, CONNECTIONS AND TEMPORARY SHUTDOWNS.

VPI STA = 133+50.00
VPI EL = 734.82
CURVE LEN = 500.00

L.P. STA = 135+16.11
L.P. EL = 735.86

VPT STA = 136+00.00
VPT EL = 736.07

THERE IS NO SEPARATION ISSUES AT THIS LOCATION.

WATER MAINS, D.I., PRESS. CLASS 350, 12" (W/ POLYWRAP, TRACER WIRE & BURY TAPE), (V21 to V23), 780 FT.

MAINTAIN MINIMUM 18" CLEARANCE BETWEEN 24" PROPOSED STORM SEWER SEWER AND 12" D.I. WATER MAIN.

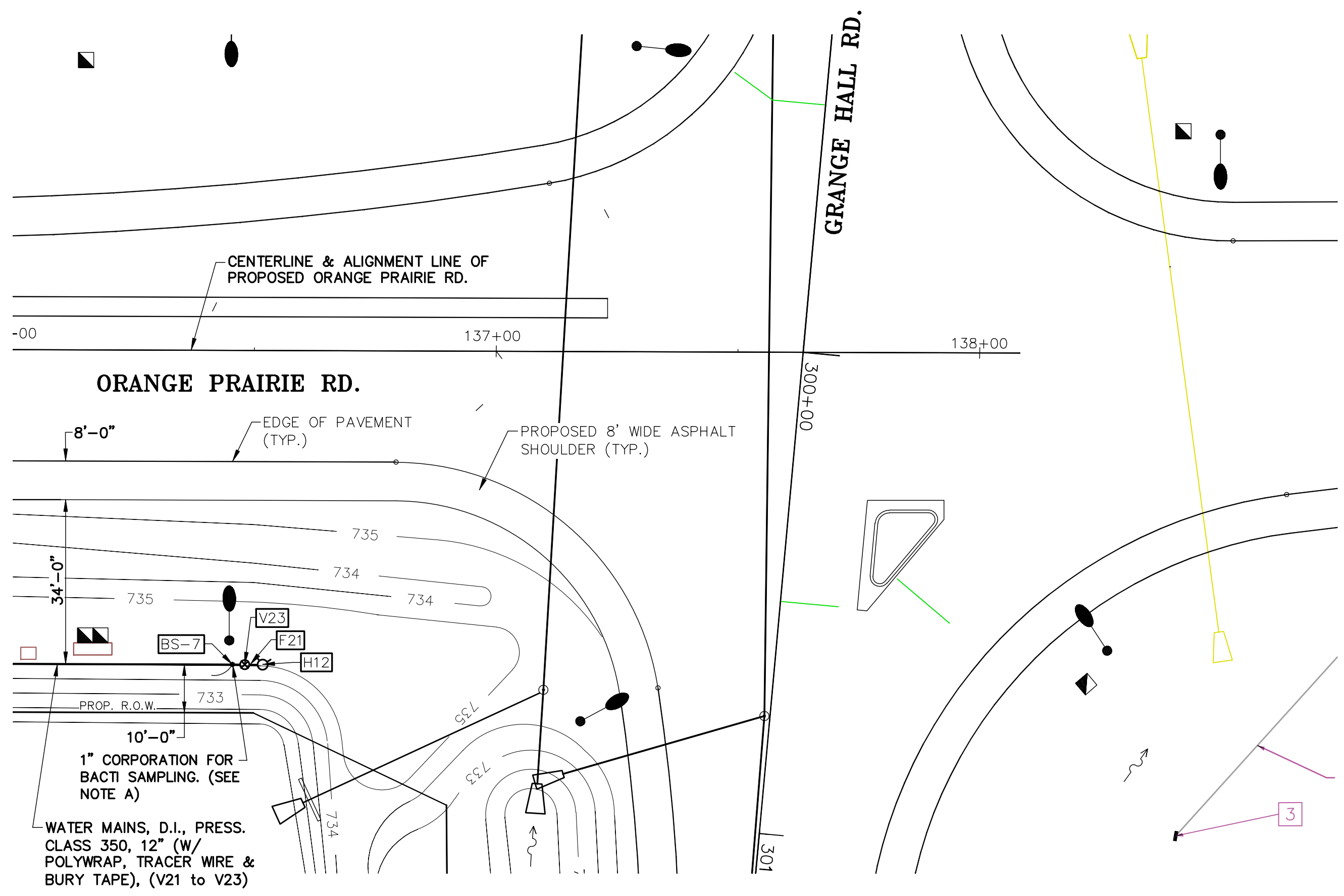
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CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

 ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615			
AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143			
PLAN & PROFILE SHEET			
DATE: 1/29/13	REVISED:	PROJECT NUMBER:	SHEET NO. 13 OF 16



I.D. NUMBER	FIRE HYDRANT	NORTHING	EASTING
H12	MUELLER HYDRANT, 6"	-	-

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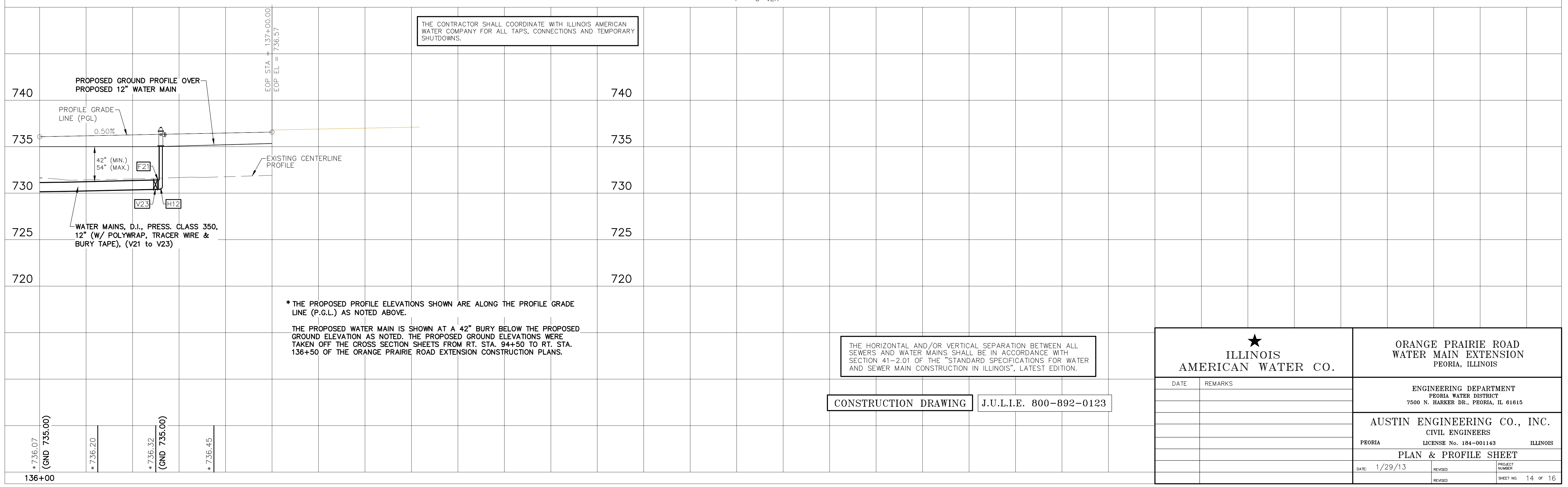
I.D. NUMBER	* WATER MAIN FITTINGS	NORTHING	EASTING
V23	MJ GATE VALVE & BOX, 12"	-	-
F21	MJ REDUCER, 8" x 6"	-	-
BS-7	BACTI SAMPLING CORPORATION, 1" (I.A.W.C. STND.)	-	-

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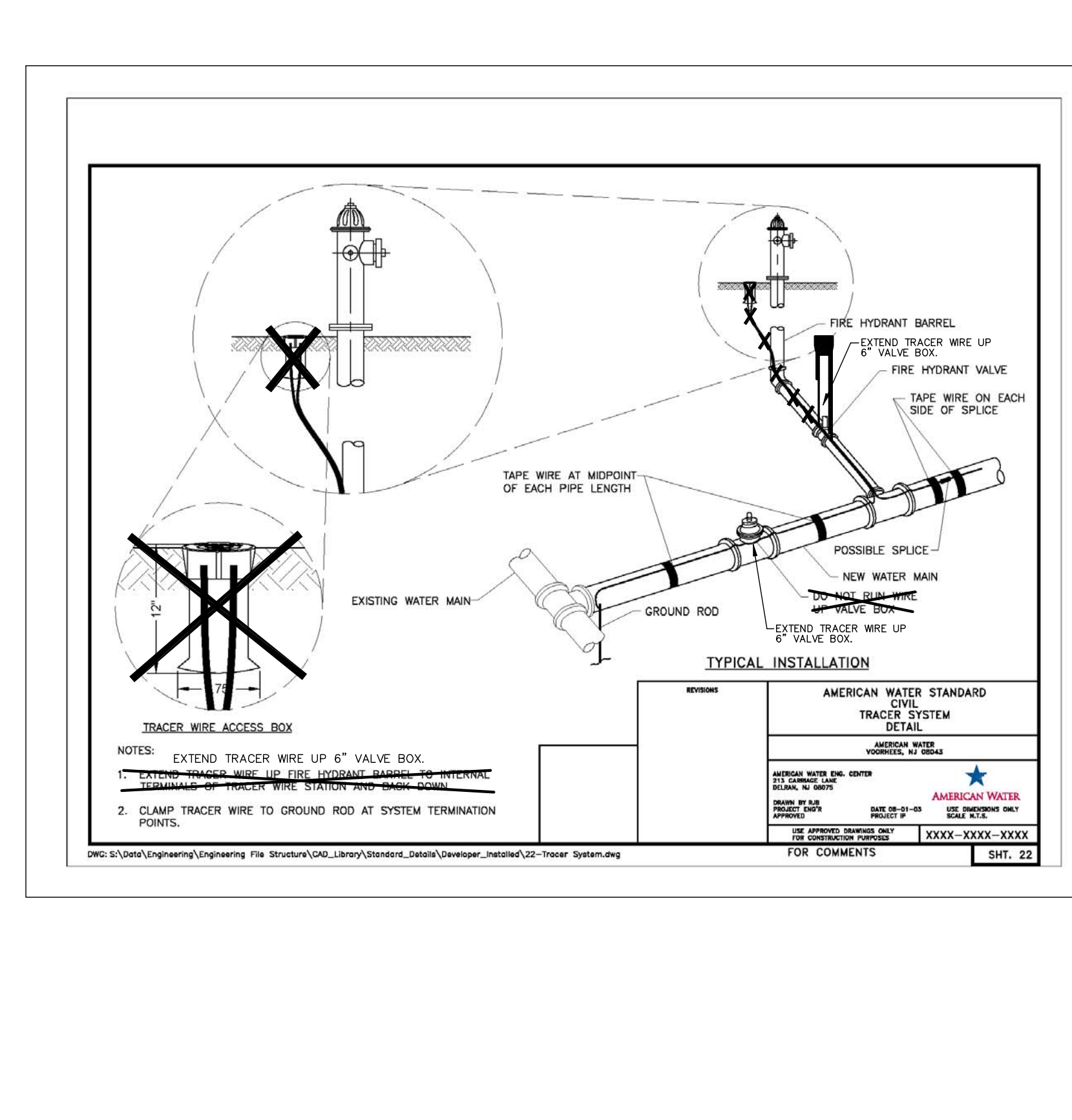
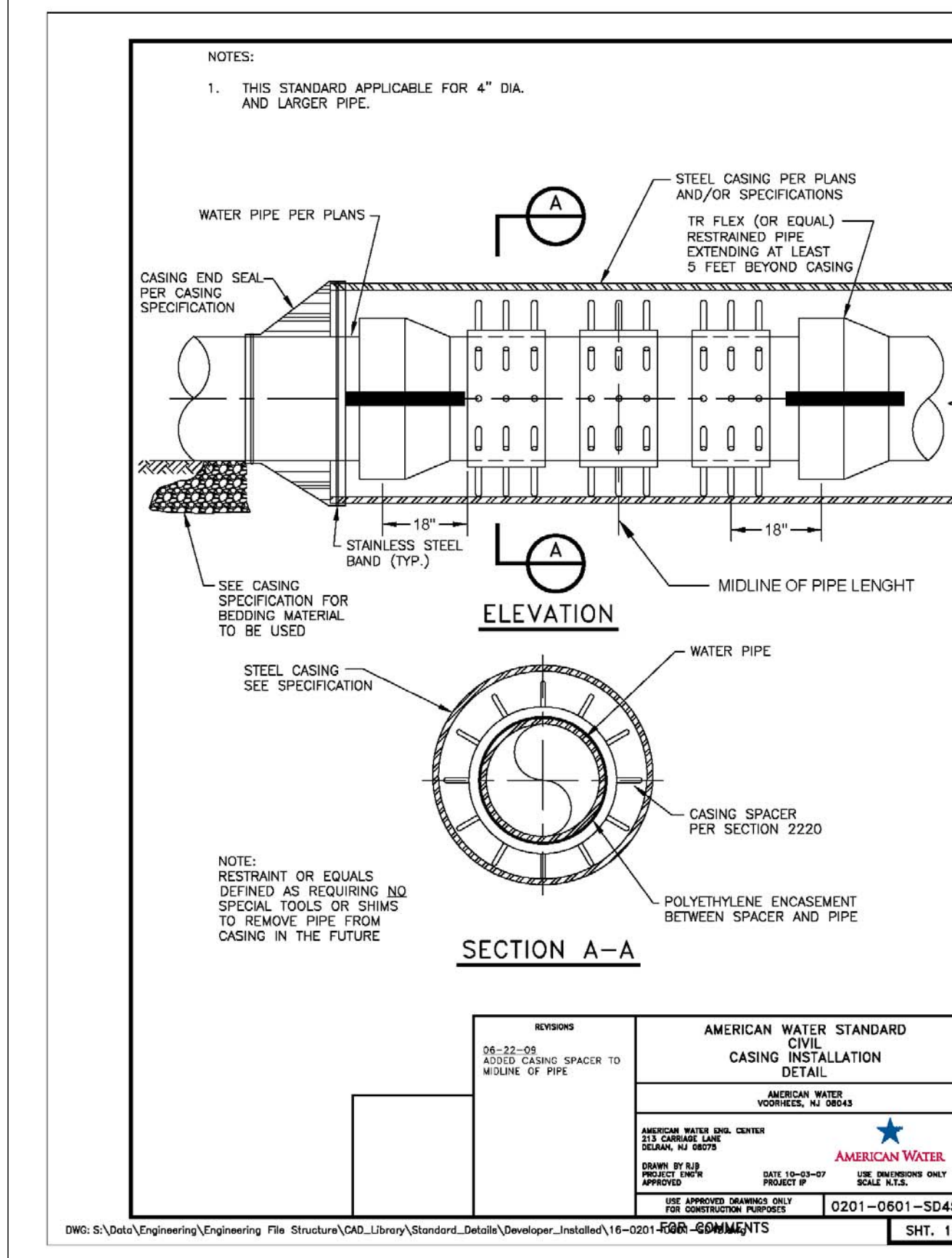
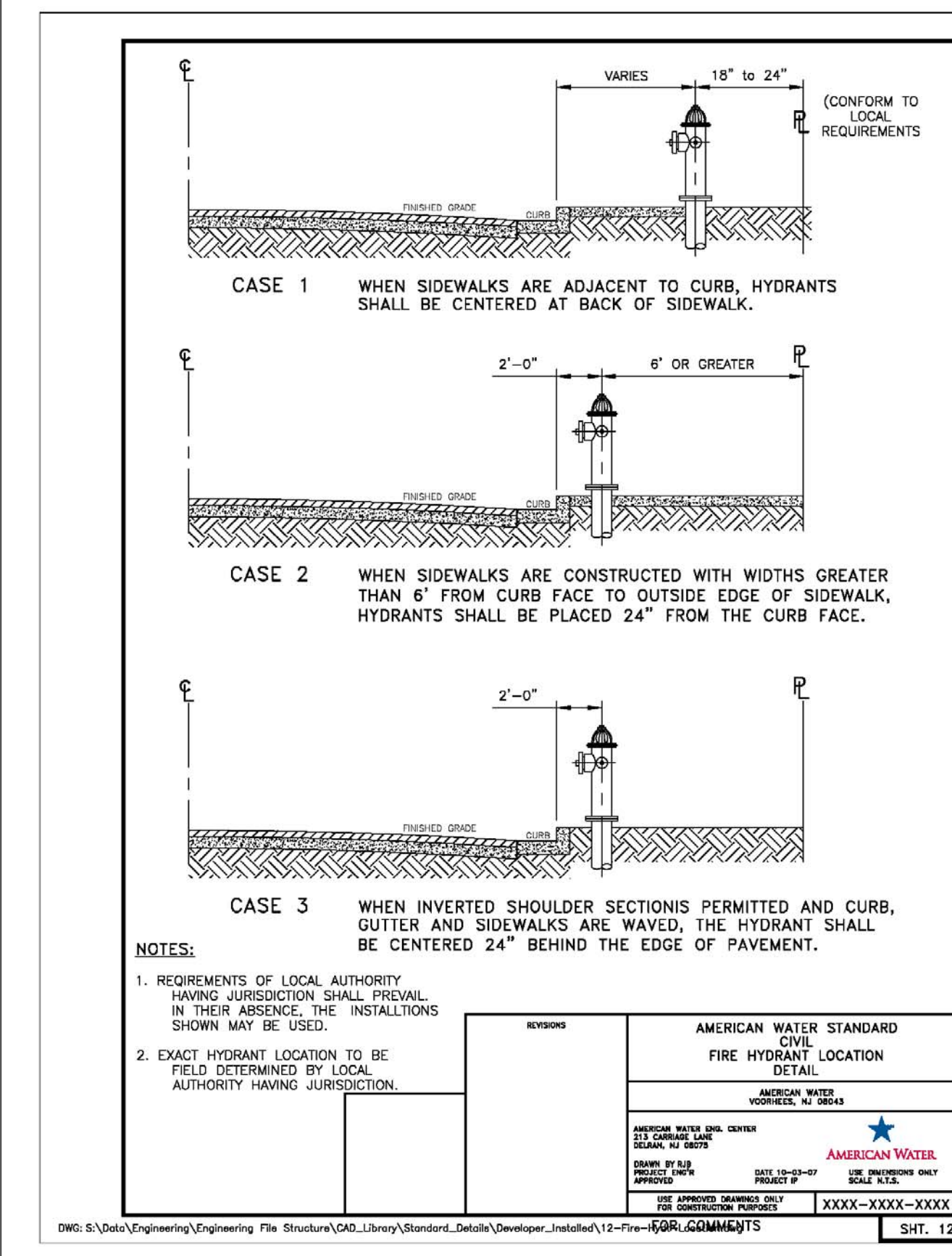
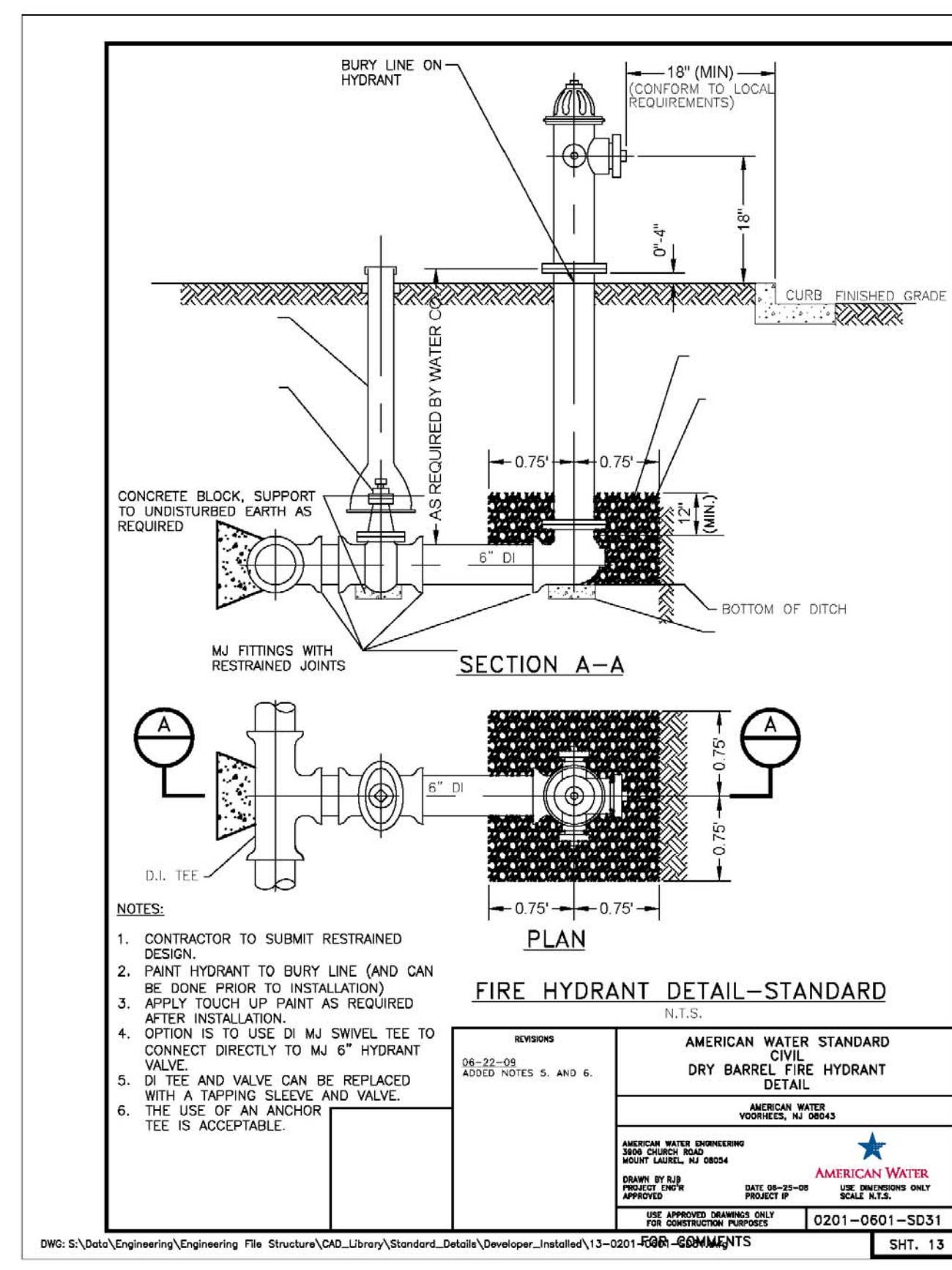
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CONSTRUCTION DRAWING J.U.L.I.E. 800-892-0123

 ILLINOIS AMERICAN WATER CO.		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
DATE		REMARKS	
		ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615	
		AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS	
PLAN & PROFILE SHEET			
DATE: 1/29/13	REVISED:	PROJECT NUMBER:	SHEET NO. 14 OF 16

* 736.07 (GND 735.00)
 * 736.20
 * 736.32 (GND 735.00)
 * 736.45

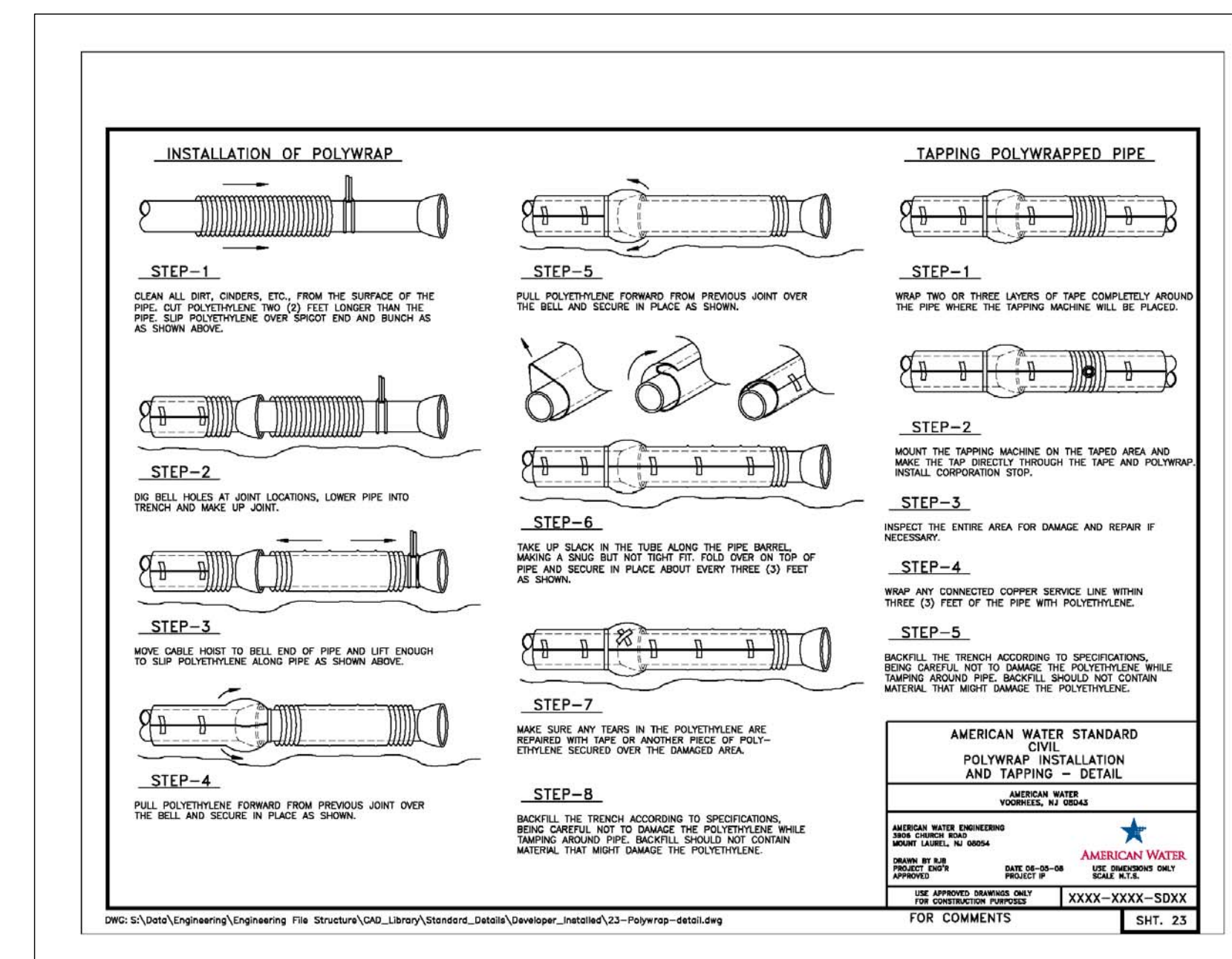
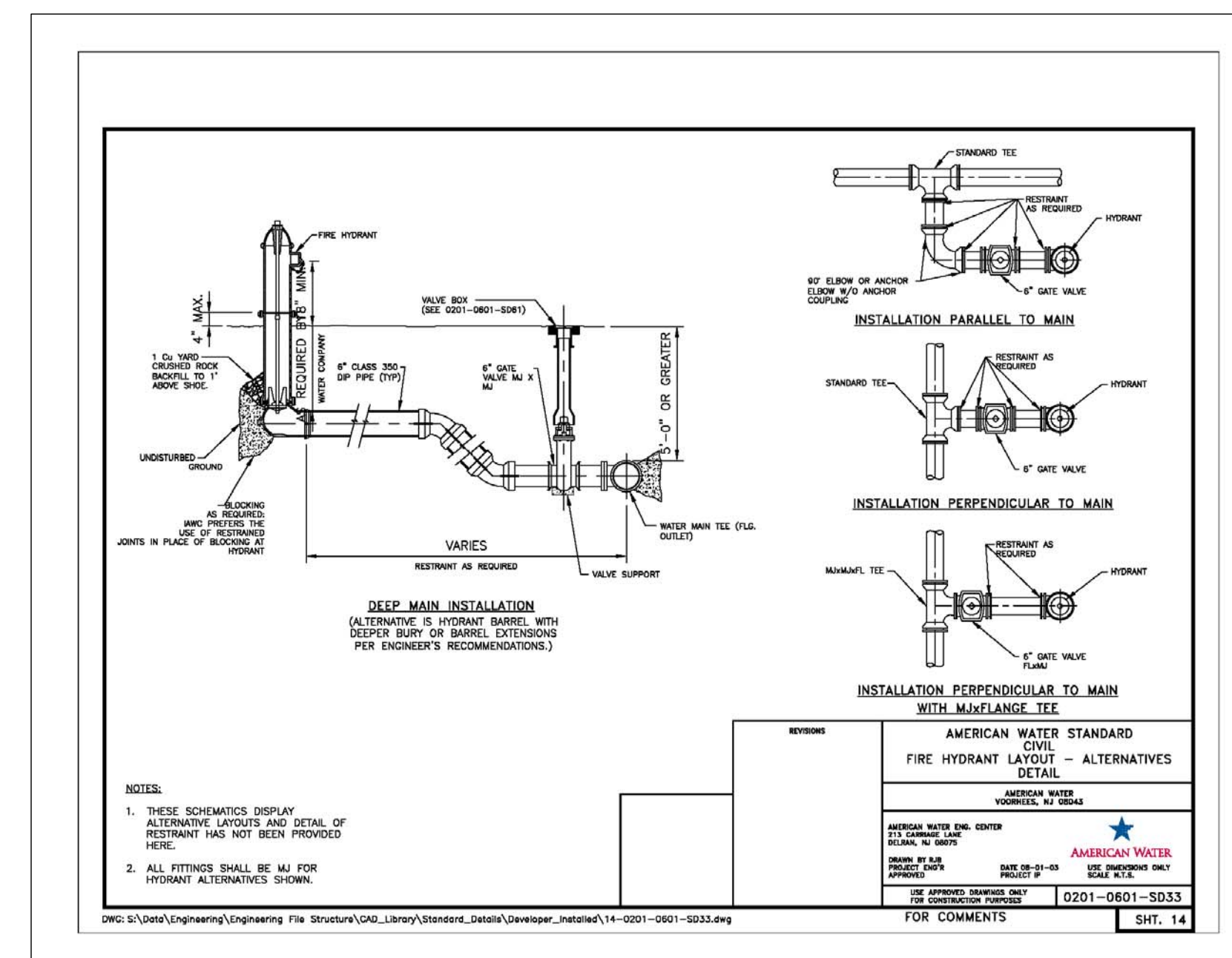


NOTE:
 1. PIPE JOINT DEFLECTION ALLOWED ON DUCTILE IRON PIPE ONLY. PIPE JOINT DEFLECTION NOT ALLOWED ON PVC PIPE.

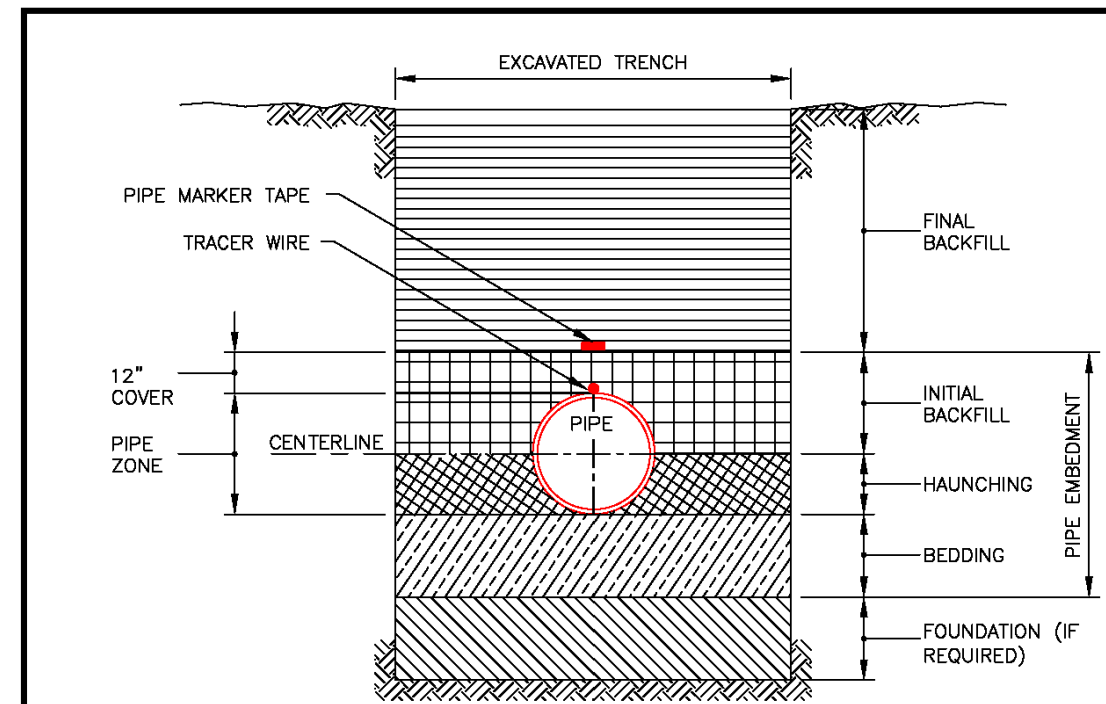
NOTE:
 *L=STANDARD LENGTH OF PIPE SECTION.

NOMINAL PIPE SIZE (INCHES)	DEFLECTION ANGLE (DEGREES)	MAXIMUM JOINT DEFLECTION FULL-LENGTH PIPE-PUSH-ON TYPE JOINT PIPE		MAXIMUM JOINT DEFLECTION DUCTILE IRON PUSH-ON PIPE		APPROXIMATE RADIUS OF CURVATURE - R (FOOT)
		INCHES	FEET	INCHES	FEET	
3	4	1/8	17	1/8	280	200
4	4	1/8	17	1/8	280	280
6	4	1/8	17	1/8	280	380
8	4	1/8	17	1/8	280	500
10	4	1/8	17	1/8	280	650
12	4	1/8	17	1/8	280	850
14	4	1/8	17	1/8	280	1100
16	2.6	9	10	4/8	476	1450
18	2.6	9	10	4/8	476	1850
20	2.6	9	10	4/8	476	2400
24	2.6	9	10	4/8	476	3200

REVISIONS		AMERICAN WATER STANDARD CIVIL PIPE CURVE GEOMETRY DETAIL
NO. 002-00	DATE 08-21-09	ISSUE FOR CONSTRUCTION
APPROVED BY: [Signature]		AMERICAN WATER VOORHEES, NJ 08043
DESIGNED BY: [Signature]		DATE 08-21-09
CHECKED BY: [Signature]		PROJECT # 0201-0801-SD32
FOR COMMENTS		SHT. 8



		ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS	
		ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615	
DATE: 1/29/13 SCALE:		AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143	
		DETAIL SHEET DATE: 1/29/13 REVISIONS: SHEET NO. 15 of 16	



TRENCH TERMINOLOGY

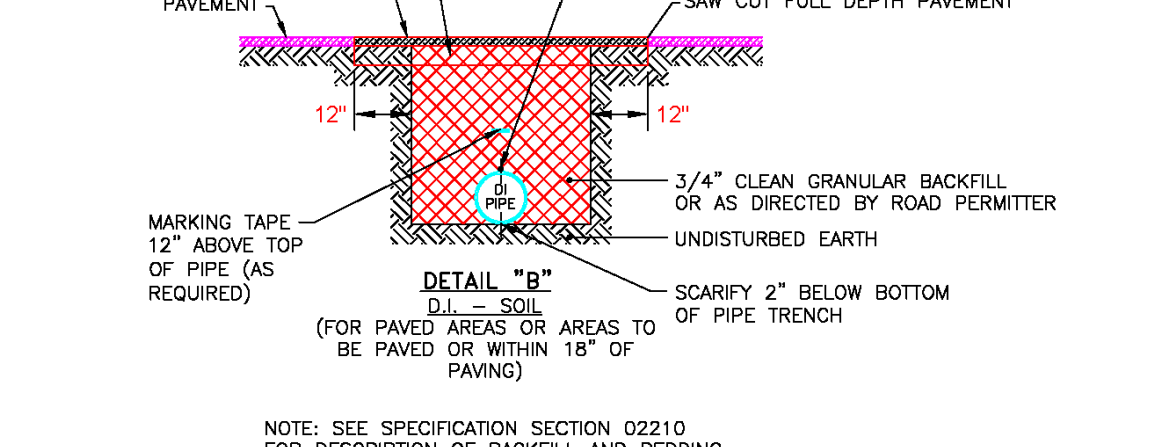
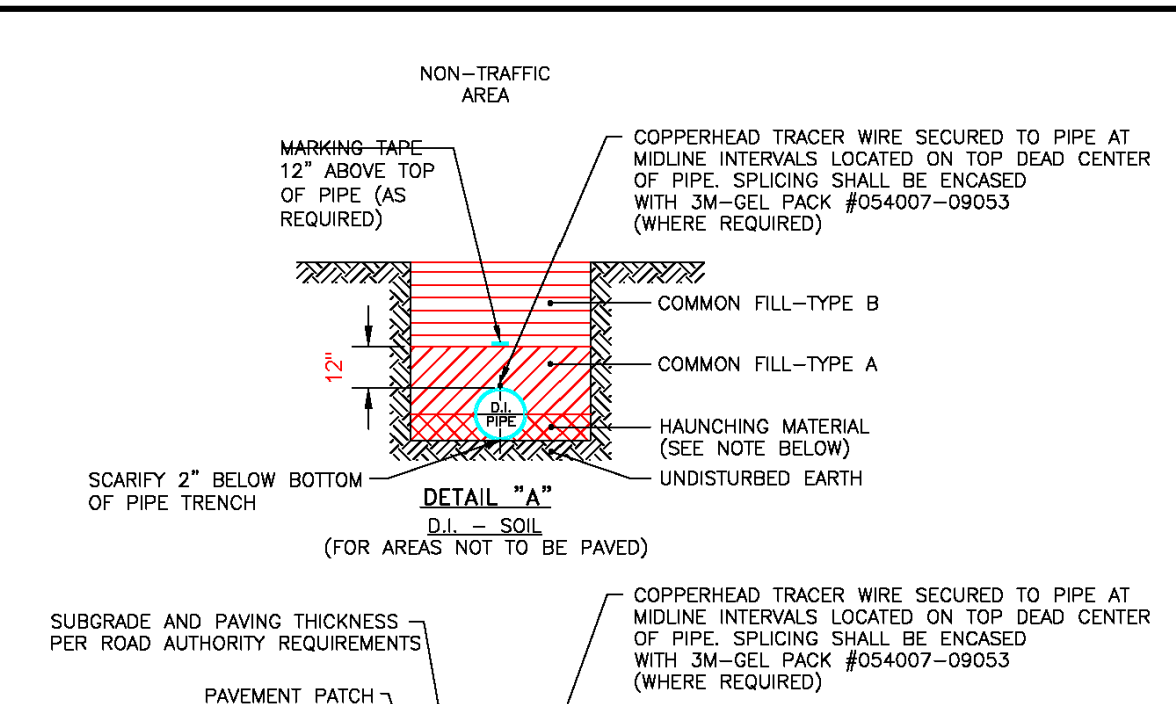
FOUNDATION: A FOUNDATION IS NECESSARY ONLY WHEN NATIVE SOILS ARE UNSTABLE. FOR SUCH CONDITIONS, THE TRENCH IS OVER-EXCAVATED AND A LAYER OF SUPPORTIVE MATERIAL IS PLACED AND COMPACTED TO PROVIDE A FIRM FOUNDATION FOR THE SUBSEQUENT PIPE EMBEDMENT MATERIALS.

EMBEDMENT: THIS ZONE IS THE MOST IMPORTANT IN TERMS OF PIPE PERFORMANCE. IT IS DIVIDED INTO THE FOLLOWING SUB ZONES:

- BEDDING:** TYPICALLY SIX INCHES OF SUPPORTIVE, COMPACTED MATERIAL. THIS ZONE PROVIDES EVEN SUPPORT FOR THE PIPE AND BRINGS IT TO GRADE.
- HAUNCHING:** EXTENDS FROM THE BOTTOM OF THE PIPE TO THE CENTERLINE OF THE PIPE. IT PROVIDES THE MOST RESISTANCE TO PIPE DEFLECTION. SPECIFYING PROPER MATERIALS AND COMPACTION ARE MOST IMPORTANT FOR THIS ZONE. IN MOST CASES NATIVE MATERIAL IS ACCEPTABLE. MATERIAL SHALL BE FREE OF ROCKS AND BE PLACED BY HAND TO PROTECT POLYETHYLENE ENCASING.
- INITIAL BACKFILL:** EXTENDS FROM THE SPRINGLINE TO A POINT ABOVE THE TOP OF THE PIPE. THIS ZONE PROVIDES SOME PIPE SUPPORT AND HELPS TO PREVENT DAMAGE TO THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. THE COVER EXTENDS FROM THE TOP OF THE PIPE TO THE TOP OF THE INITIAL BACKFILL. THE DEPTH OF COVER SHOULD BE AS MUCH AS NECESSARY TO PROTECT THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. TWELVE INCHES IS A COMMON DEPTH OF COVER.
- FINAL BACKFILL:** THIS ZONE EXTENDS FROM THE TOP OF THE INITIAL BACKFILL TO THE TOP OF THE TRENCH. THIS ZONE HAS LITTLE INFLUENCE ON PIPE PERFORMANCE, BUT CAN BE IMPORTANT TO THE INTEGRITY OF ROADS AND STRUCTURES.

<p>REVISIONS</p> <p>08-22-08 ADD TRACER WIRE</p>	<p>AMERICAN WATER STANDARD CIVIL PIPE TRENCH TERMINOLOGY DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
<p>PROJECT #: SHEET #: SHEET TOTAL:</p>	<p>PROJECT #: SHEET #: SHEET TOTAL:</p>

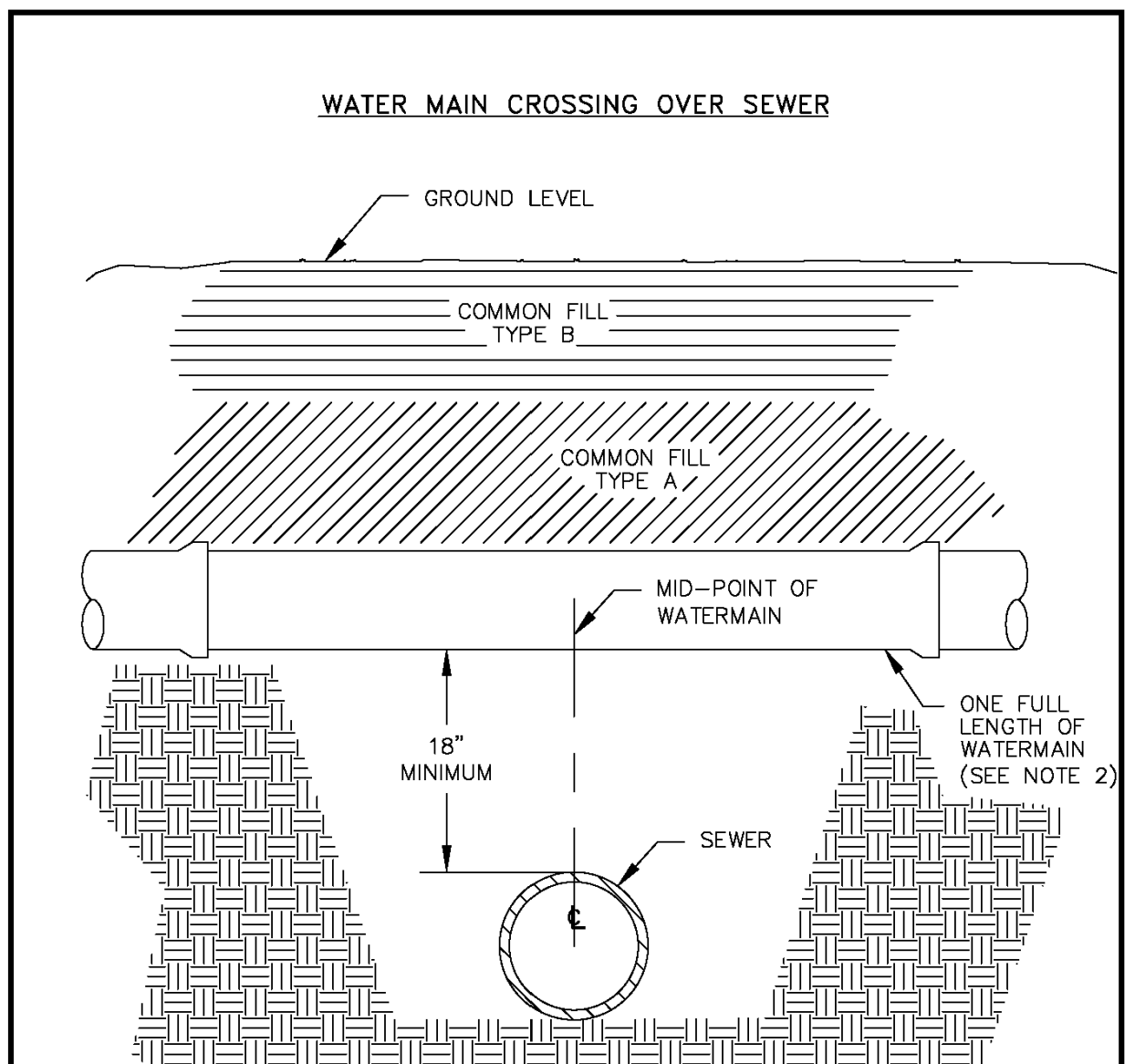
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- NOTE: SEE SPECIFICATION SECTION 02210 FOR DESCRIPTION OF BACKFILL AND BEDDING MATERIAL.
- NOTES:
- CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE. NATIVE SOIL IS ACCEPTABLE UNLESS DIRECTED BY COMPANY.
 - POLYETHYLENE ENCASING ON ALL D.I. PIPE, FITTINGS, VALVES & APPURTENANCES IN CORROSIVE SOILS.

<p>REVISIONS</p> <p>08-22-08 TEST TRENCH "OPTIONAL" REMOVED AND TEST 5'-0\"/> </p>	<p>AMERICAN WATER STANDARD CIVIL TRENCH - D.I. PIPE IN SOIL DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
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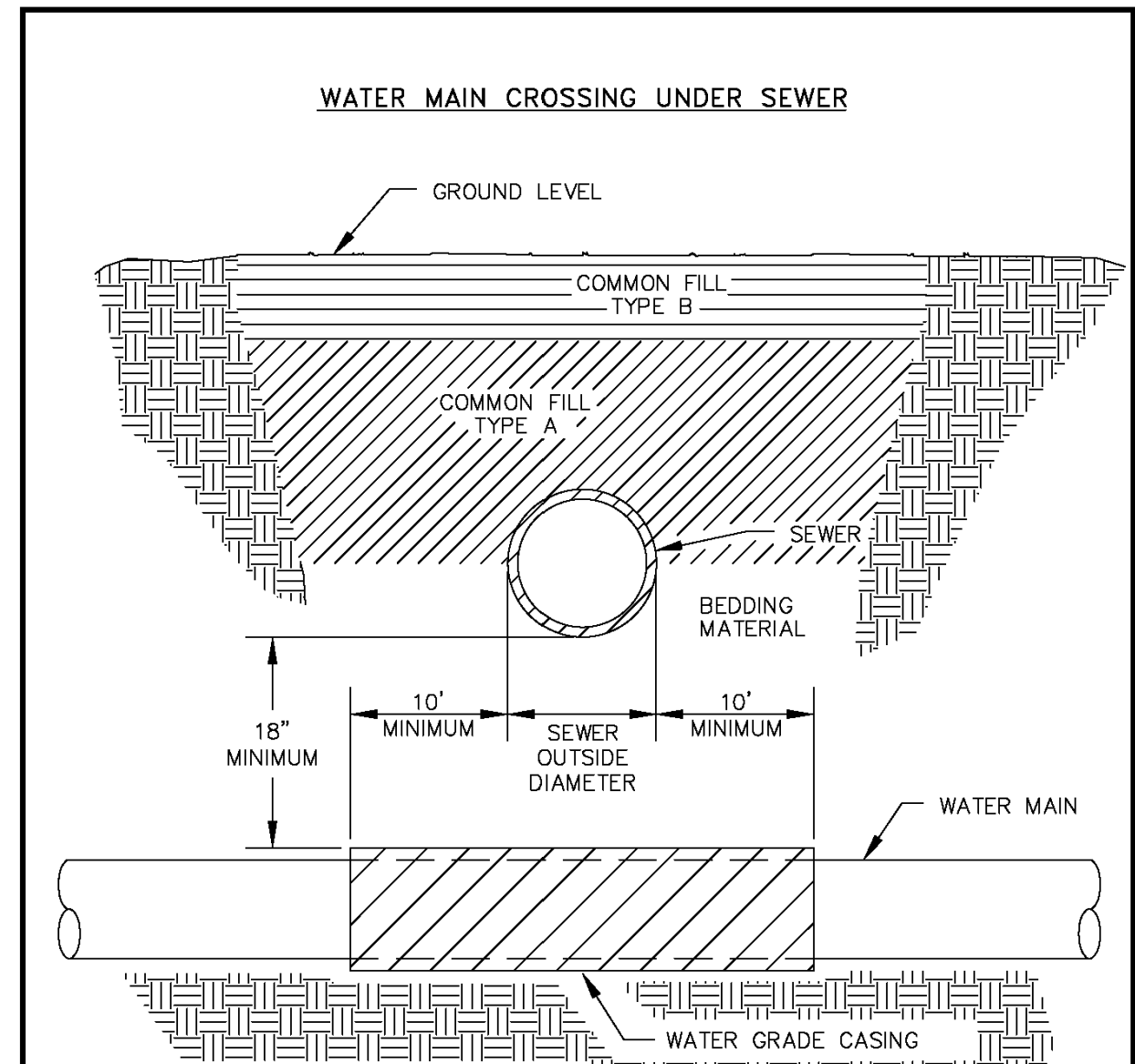
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- OPTION A - PRESSURE CLASS SEWER MAIN**
- REPLACE EXISTING SEWER WITH A PRESSURE CLASS MAIN A MINIMUM OF 10' EACH SIDE OF THE WATER MAIN.
- OPTION B - WATER MAIN INSTALLATION**
- MID-POINT OF ONE FULL LENGTH OF WATER MAIN IS TO BE CENTERED ABOVE SEWER LINE.
 - PROVIDE ADEQUATE SUPPORT FOR THE WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT.
- NOTES:
- FOLLOW TRENCH MATERIAL DETAIL WHEN BACK-FILLING WATER MAIN.
 - THE SELECTED OPTION MUST BE APPROVED BY AN IL-AWC REPRESENTATIVE.

<p>REVISIONS</p> <p>08-22-08 TEST TRENCH "OPTIONAL" REMOVED AND TEST 5'-0\"/> </p>	<p>AMERICAN WATER STANDARD CIVIL WATER MAIN CROSSING OVER SEWER DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
<p>PROJECT #: SHEET #: SHEET TOTAL:</p>	<p>PROJECT #: SHEET #: SHEET TOTAL:</p>

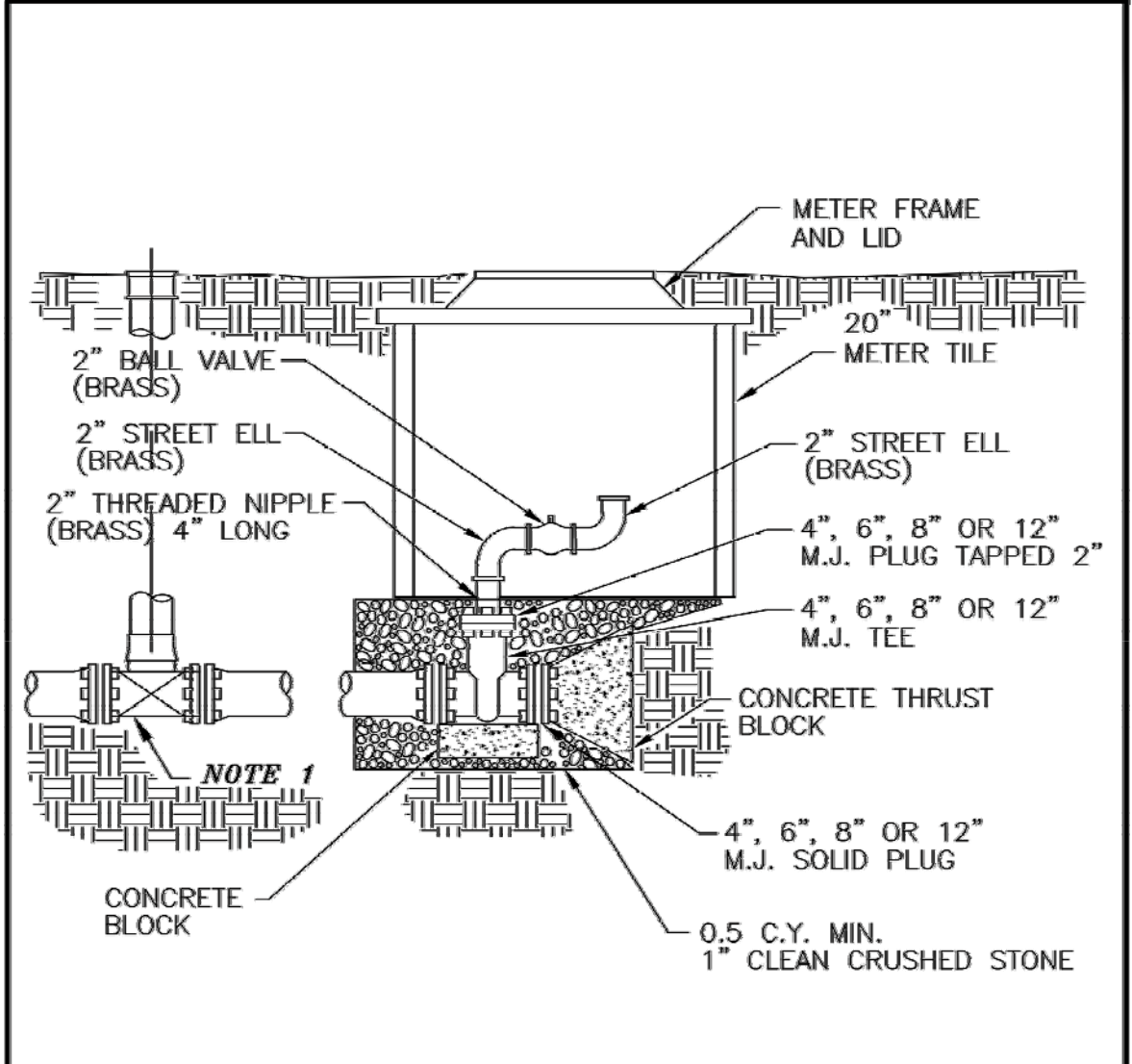
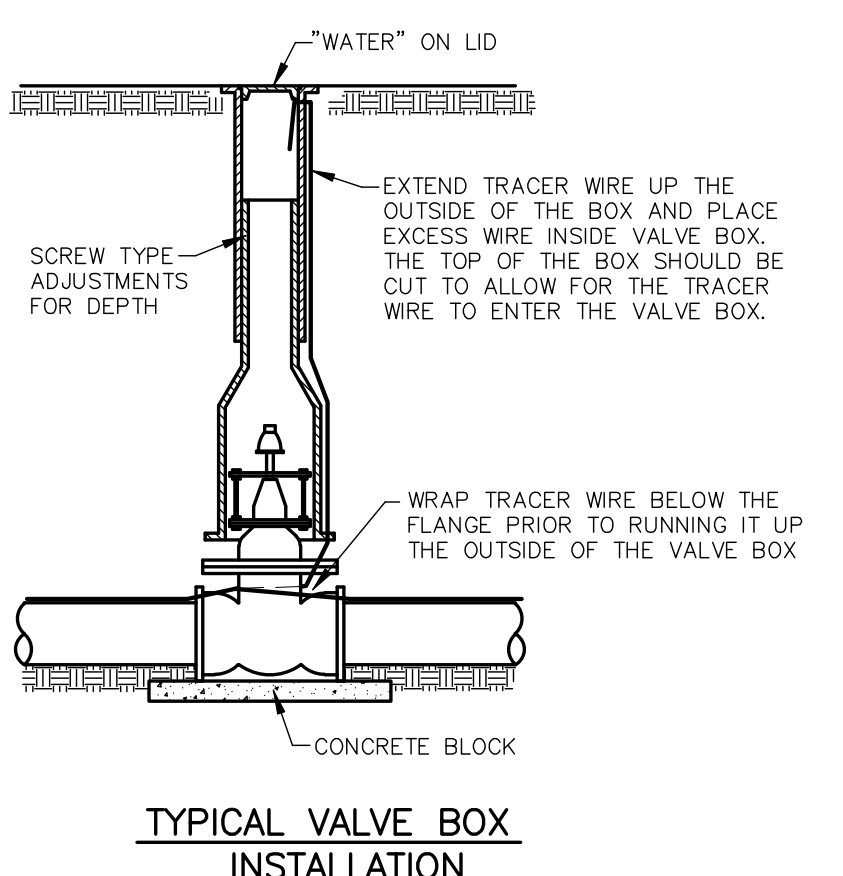
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- OPTION A - PRESSURE CLASS SEWER MAIN**
- REPLACE EXISTING SEWER WITH A PRESSURE CLASS MAIN IN LIEU OF CASING THE WATER MAIN.
- OPTION B - WATER MAIN CASING INSTALLATION**
- PROVIDE ADEQUATE SUPPORT FOR THE EXISTING SEWER TO PREVENT DAMAGE DUE TO SETTLEMENT.
- NOTES:
- FOLLOW TRENCH MATERIAL DETAIL WHEN BACK-FILLING WATER MAIN.
 - THE SELECTED OPTION MUST BE APPROVED BY AN IL-AWC REPRESENTATIVE.

<p>REVISIONS</p> <p>08-22-08 TEST TRENCH "OPTIONAL" REMOVED AND TEST 5'-0\"/> </p>	<p>AMERICAN WATER STANDARD CIVIL WATER MAIN CROSSING UNDER SEWER DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
<p>PROJECT #: SHEET #: SHEET TOTAL:</p>	<p>PROJECT #: SHEET #: SHEET TOTAL:</p>

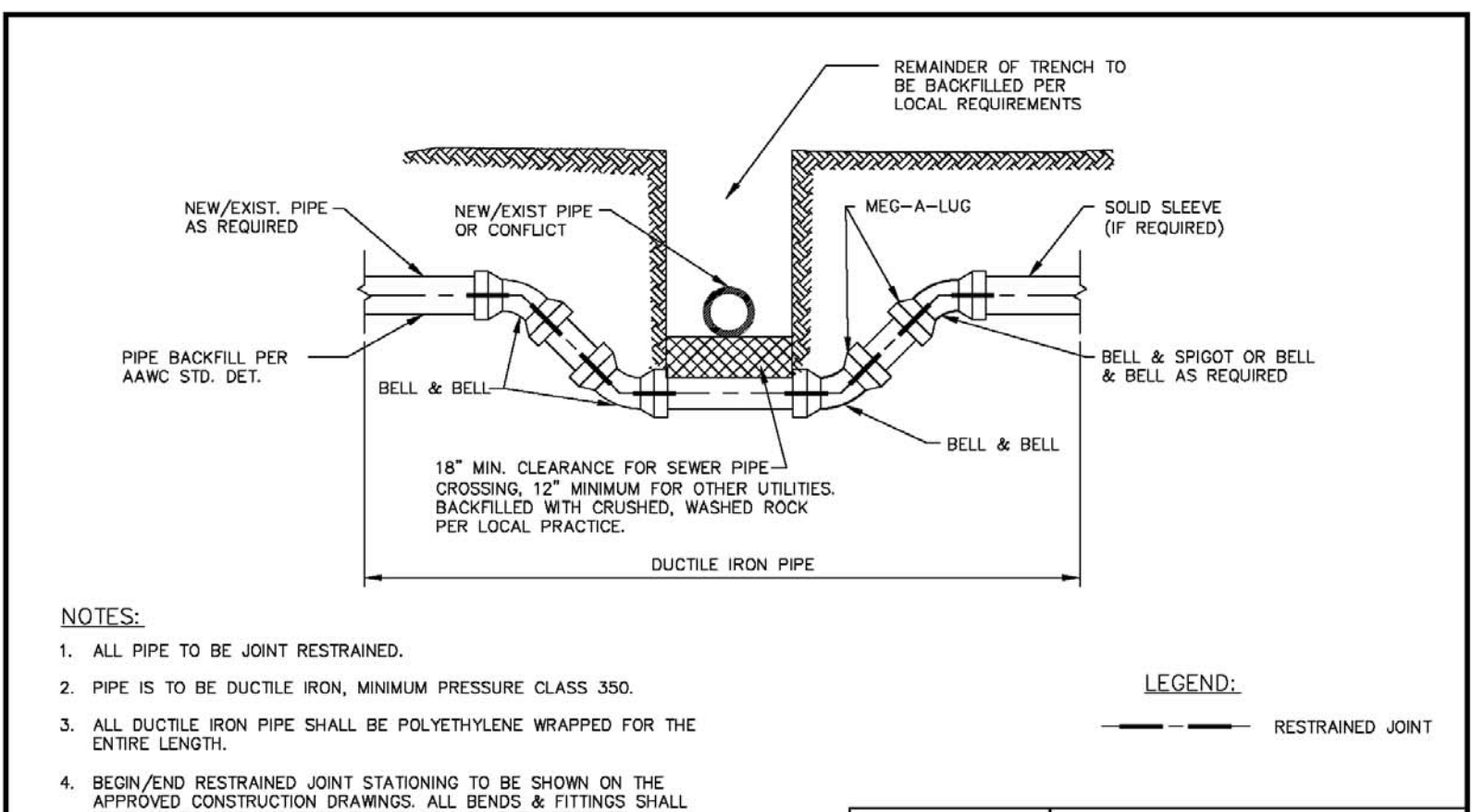
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- NOTES:
- LINE VALVE REQUIRED ONE (1) LENGTH PRIOR TO BLOW-OFF.

<p>REVISIONS</p> <p>08-22-08 TEST TRENCH "OPTIONAL" REMOVED AND TEST 5'-0\"/> </p>	<p>AMERICAN WATER STANDARD CIVIL PERMANENT BLOWOFF ASSEMBLY (ALTERNATIVE) - DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
<p>PROJECT #: SHEET #: SHEET TOTAL:</p>	<p>PROJECT #: SHEET #: SHEET TOTAL:</p>

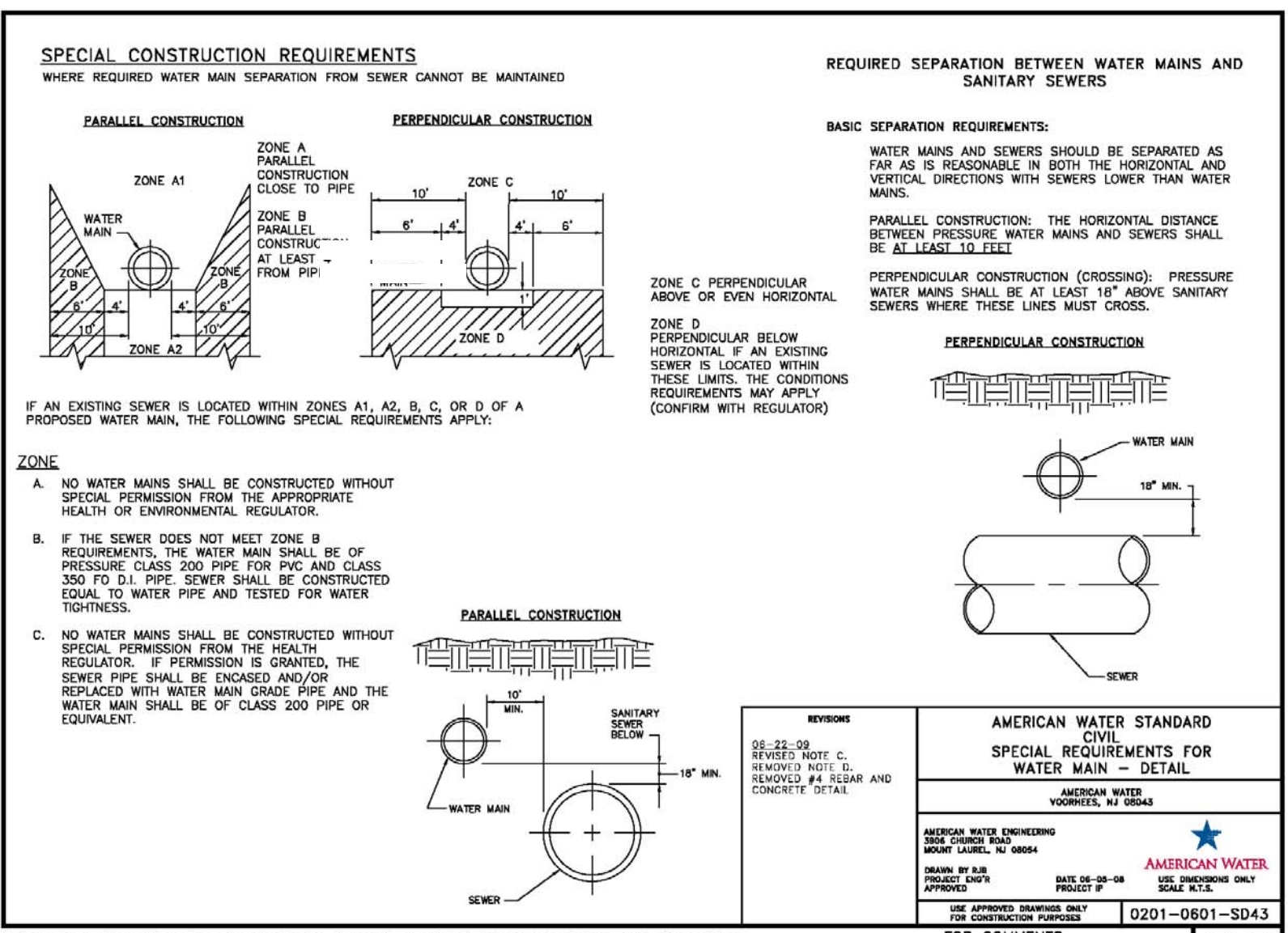
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- NOTES:
- ALL PIPE TO BE JOINT RESTRAINED.
 - PIPE IS TO BE DUCTILE IRON, MINIMUM PRESSURE CLASS 350.
 - ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE WRAPPED FOR THE ENTIRE LENGTH.
 - BEIGN/END RESTRAINED JOINT STATIONING TO BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. ALL BEIGN & FITTINGS SHALL HAVE STATIONING AND ELEVATION SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. THE BOTTOM ELEVATION OF THE CONFLICT AND THE TOP ELEVATION OF THE DUCTILE IRON PIPE AT THE CENTERLINE OF THE CONFLICT SHALL BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
 - SEPARATION REQUIREMENTS SHALL BE FOLLOWED WITH REGARD TO CONFLICT PIPE.

<p>REVISIONS</p> <p>08-22-08 TEST TRENCH "OPTIONAL" REMOVED AND TEST 5'-0\"/> </p>	<p>AMERICAN WATER STANDARD CIVIL VERTICAL REALIGNMENT OF WATER MAINS DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
<p>PROJECT #: SHEET #: SHEET TOTAL:</p>	<p>PROJECT #: SHEET #: SHEET TOTAL:</p>

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<p>REVISIONS</p> <p>08-22-08 TEST TRENCH "OPTIONAL" REMOVED AND TEST 5'-0\"/> </p>	<p>AMERICAN WATER STANDARD CIVIL SPECIAL REQUIREMENTS FOR WATER MAIN - DETAIL</p> <p>AMERICAN WATER VORWIELE, A 8223</p> <p>AMERICAN WATER MILLENZ, A 8223</p>
<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>	<p>DATE: 08-22-08 DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS</p>
<p>PROJECT #: SHEET #: SHEET TOTAL:</p>	<p>PROJECT #: SHEET #: SHEET TOTAL:</p>

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<p>ILLINOIS AMERICAN WATER CO.</p>		<p>ORANGE PRAIRIE ROAD WATER MAIN EXTENSION PEORIA, ILLINOIS</p>	
<p>DATE: 1/29/13</p>		<p>REVISIONS</p>	
<p>REMARKS</p>		<p>PROJECT NUMBER</p>	
<p>ENGINEERING DEPARTMENT PEORIA WATER DISTRICT 7500 N. HARKER DR., PEORIA, IL 61615</p>		<p>AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS PEORIA ILLINOIS LICENSE No. 184-001143</p>	
<p>SCALE</p>		<p>SHEET NUMBER</p>	
<p>REVISIONS</p>		<p>SHEET NO. 16 OF 16</p>	