



CONTACT INFORMATION

OWNER / DEVELOPER

OWNER: CITY OF FARMINGTON

REPRESENTATIVE: LARRY LACY

ADDRESS: 12 SOUTH FRANKLIN STREET, FARMINGTON, MO, 63640

PHONE: 573-756-0608

WATER / SEWER

OWNER: CITY OF FARMINGTON

REPRESENTATIVE: CASEY BARNHOUSE

ADDRESS: 12 SOUTH FRANKLIN STREET, FARMINGTON, MO. 63640

PHONE: 573-756-7698

ELECTRIC

OWNER: CITY OF FARMINGTON

REPRESENTATIVE: BRUCE BELVIN

ADDRESS: 2 INDUSTRIAL DR., FARMINGTON, MO. 63640

PHONE: 573-701-4567

GAS

OWNER: SPIRE

REPRESENTATIVE: DAVE CRUMP

ADDRESS: 410 WEST MAIN STREET, FESTUS, MO, 63028

PHONE: 636-931-5353

TELEPHONE

OWNER: AT&T

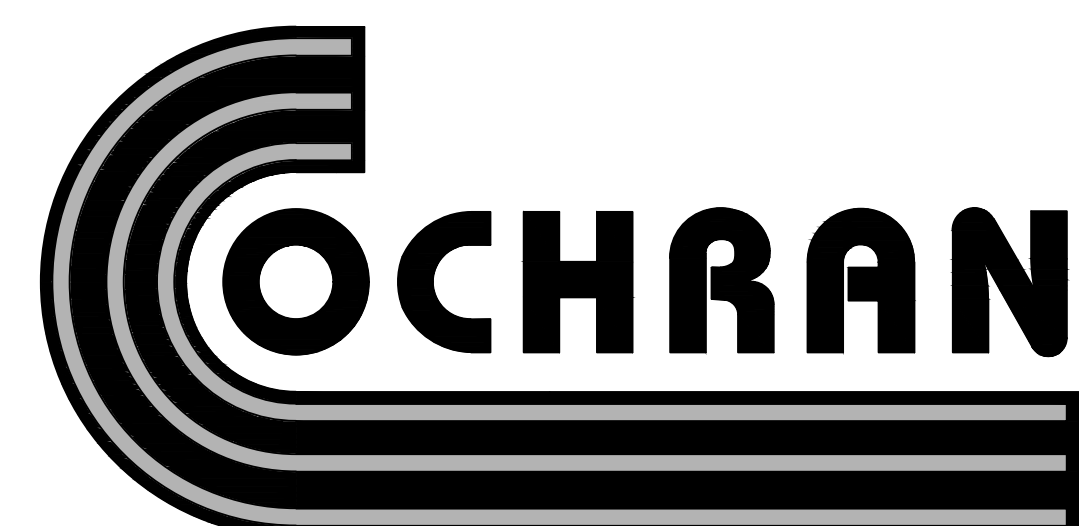
REPRESENTATIVE: ALLEN RICH

PHONE: 573-431-4589



HARRISON STREET & COLUMBIA STREET WATER MAIN IMPROVEMENT PLANS FOR THE CITY OF FARMINGTON

PROJECT NO. 24-9910



- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

530A E. INDEPENDENCE DRIVE, UNION, MISSOURI 63084

TELEPHONE (636) 584-0540

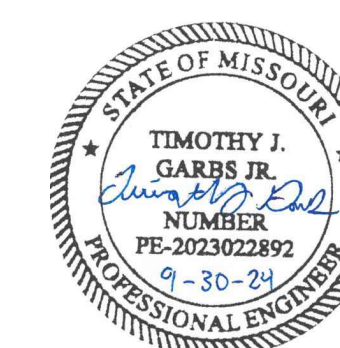
FAX (636) 584-0512

E-MAIL mail@cochraneng.com

OUT TO BID

FOR PERMITTING PURPOSES ONLY
NOT TO BE USED FOR CONSTRUCTION

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Timothy J. Garbs No. PE-2023022892
Professional Engineer
State of Missouri
Cochran

Three working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (i.e. Trenching, Blasting, etc.)

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1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AGENCIES AND UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN TAKEN.
2. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE FROM BUILDINGS FOR ALL NATURAL & PAVED AREAS.
3. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
4. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN TAKEN.
5. SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED BY TEMPORARY SEEDING MIX.
6. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
7. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
8. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
9. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
10. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
11. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
12. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STORMWATER RUN-OFF AND SILTATION UNDER CONTROL DURING CONSTRUCTION.
13. CONTRACTOR SHALL MAINTAIN THE SITE IN A WELL-DRAINED MANNER IN ORDER TO ASSUME THE SHORTEST POSSIBLE DRYING TIME AFTER EACH RAINFALL. THIS WILL MEAN THAT PUMPING OF STANDING WATER IN LOW AREAS ON THE SITE WILL MOST LIKELY BE REQUIRED DURING CONSTRUCTION.
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP MUD AND SILT ON SITE OFF OF STREETS.
15. IN AREAS WHERE FRENCH DRAIN & STORM SEWER SHARE THE SAME TRENCH, BACKFILL SHALL BE CLEAN TO ALLOW FOR PROPER DRAINAGE.

THIS PROJECT SHALL MEET OR EXCEED CITY OF FARMINGTON AND
FIRMINTON OF NATURE RESOURCES STANDARDS AND SPECIFICATIONS.

REFERENCE TO GRID NORTH OF THE MISSOURI COORDINATE SYSTEM OF 1983,
ELEVATIONS REFERENCED TO NAVD 1988 PER GPS OBSERVATIONS
MODEM VRS RTK NETWORK AND A 3" BRASS CAP STAMPED "CLOVER

"MARK IS A 3" BRASS CAP STAMPED "CLOVER 1956" ELEVATION IS
NAVD 88)

THE EDGE OF PAVEMENT ON THE NORTH SIDE OF COLUMBIA ST.
IS 905.84 FEET SEEN ON SHEET CI (NAVD 88).
THE EDGE OF PAVEMENT ON THE SOUTH SIDE OF COLUMBIA ST.
IS 890.93 FEET SEEN ON SHEET CB (NAVD 88).
THE EDGE OF PAVEMENT ON THE NORTH SIDE OF HARRISON ST.
IS 908.80 FEET (NAVD 88).
THE EDGE OF PAVEMENT ON THE NORTH SIDE OF FIRST ST. ELEVATION
IS 907.54 FEET (NAVD 88).

LIES WITHIN "ZONE X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE
FLOODPLAIN CHANGE FLOODPLAIN FLOOD INSURANCE RATE MAP FOR ST.
COUNTY, MISSOURI & INCORPORATED AREAS, PER COMMUNITY PANEL NUMBER
EFFECTIVE DATE: JUNE, 2011

CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO SUBMITTING THEIR BID
PROJECT.

WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR
COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE.
PROPERTY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE
REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL
OPERATIONS. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING
SIGNALS, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES
THROUGHOUT CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATION
AND SAFETY MEETING REQUIREMENT.

STRUCTURES, FACILITIES AND UTILITIES HAVE BEEN PLOTTED FROM
SURVEY RECORDS. THEREFORE, THEIR LOCATIONS MUST BE
APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS
NOT KNOWN.

WORK HAS BEEN PERFORMED BY COCHRAN REGARDING HAZARDOUS WASTE,
CONDITIONS OR UTILITIES AFFECTING THE TRACT SHOWN HEREON.

TO CONTACT TELEPHONE, ELECTRIC, GAS, WATER AND CABLE COMPANIES TO
LOCATE UTILITIES LOCATED ON THIS SITE AND ADJACENT TO THIS SITE
IS AN EXCAVATING.

CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION
OF UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE FIELD
ENGINEERS AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE YEAR
INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION
AND DEPTH OF ANY UTILITIES. CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY TO REQUEST EXACT FIELD
LOCATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO
EXISTING UTILITIES, WHICH CONFLICT WITH THE NEW IMPROVEMENTS SHOWN

UNDERPAVED AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL
TO MEET COMPACTION REQUIREMENTS FOR THE ROAD/PARKING LOT.

FOUNDATIONS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY
A SURVEYOR LICENSED IN THE STATE IN WHICH THIS PROJECT IS LOCATED
CONTRACTOR'S EXPENSE.

CONTRACTOR MAKE ADJUSTMENTS TO EXISTING UTILITIES WITH APPROPRIATE
W/ AS WORK PROGRESSES.

CONTRACTOR COORDINATE THE SCHEDULING AND LOCATION OF THE DEMOLITION
OF ALL UTILITIES INCLUDING STAKEOUT, CONDUIT REQUIRED,
AND, CONTRACTOR SHALL CONTACT EACH UTILITY PROVIDER WITH
ADVANCE NOTICE OF ANY WORK TO BE DONE.

CONTRACTOR PROVIDE A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN
ROAD AND WATERLINES AND A MINIMUM OF 18" OF CLEARANCE BETWEEN
ROAD AND WATERLINES. THIS MAY MEAN THAT LOWERING OF WATERLINES MAY

CONTRACTOR SUBMIT SHOP DRAWINGS FOR SANITARY SEWER, WATER MAIN, AND
OTHER STRUCTURES TO COCHRAN FOR REVIEW AND APPROVAL PRIOR TO
ANY STRUCTURES.

PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH
REGULATIONS.

CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING
OVERVIEW THIS SYSTEM PRIOR TO INSTALLATION.

DURING INSPECTIONS, TESTING, AND/OR CERTIFICATIONS REQUIRED BY CODES,
AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO
BEGINNING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

CONTRACTOR SHALL SAW CUT ALL CURBS AND GUTTER SECTIONS, CONCRETE MEDIANS
AND DRIVEWAYS TO EXPOSE UNDERLYING UTILITY TRENCHING. CONTRACTOR SHALL
REMOVE EXCESSIVE SOIL AND CLAY TO PREVENT OVERHEAD OBSTRUCTIONS
DURING CONSTRUCTION UNLESS OTHERWISE NOTED TO REMAIN. (IE. FENCING, TREES,
POLES, CHUTE PAVEMENT, UTILITIES, ETC.) WITHIN THE CONSTRUCTION AREA SHALL
BE REMOVED AND DISPOSED OFF-SITE IN A MANNER MEETING LOCAL AND STATE
ENVIRONMENTAL REGULATIONS. CONTRACTOR SHALL BE SUBJECT TO LOCAL AND STATE
AGENCY INSPECTIONS AND THE OWNER'S SPECIFICATIONS.

EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL
BE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING
STRUCTURE NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

CONTRACTOR'S RESPONSIBILITY TO KEEP ALL MUD AND SILT ON SITE
AT ALL TIMES.

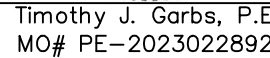
NEW WATERLINES SHALL BE SDR 21 CLASS 200 PVC PIPE. NEW WATERLINES LESS
THAN 48" SHALL BE SDR 9 PE TUBING. ALL WATERLINES CONSTRUCTED
DEEPER THAN 48" SHALL BE COVERED BY 42" THICKNESS OF COVER BELOW FINISHED GRADE, UNLESS
CALLED OUT ON PLANS.

FOR REVIEW PURPOSES ONLY
NOT TO BE USED FOR CONSTRUCTION

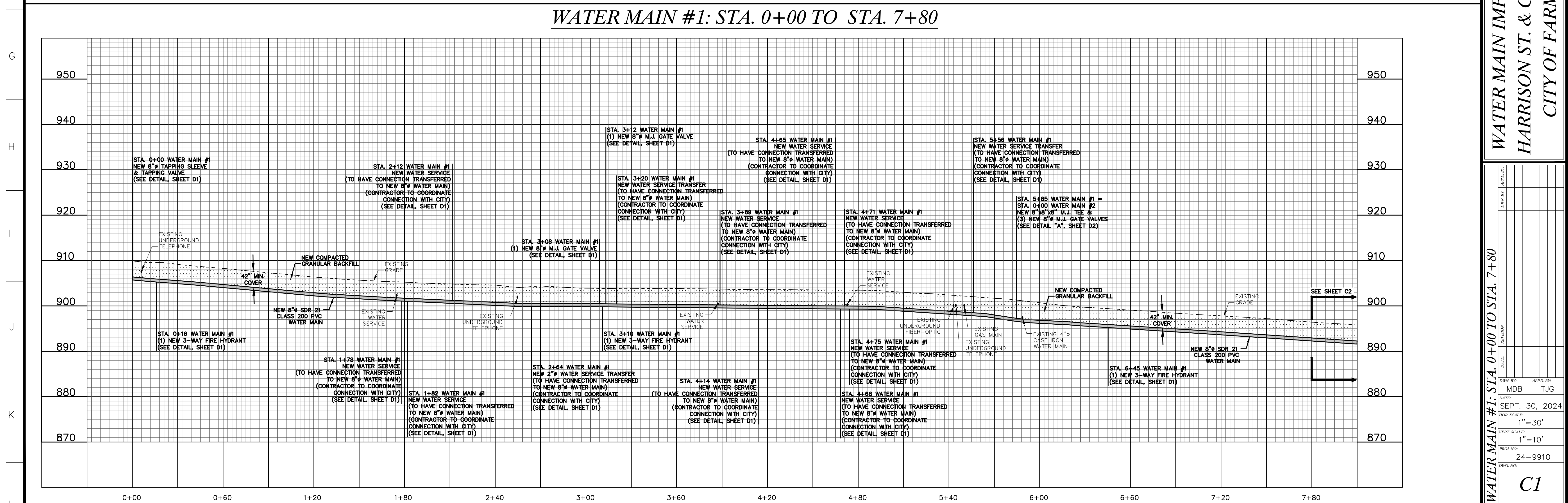
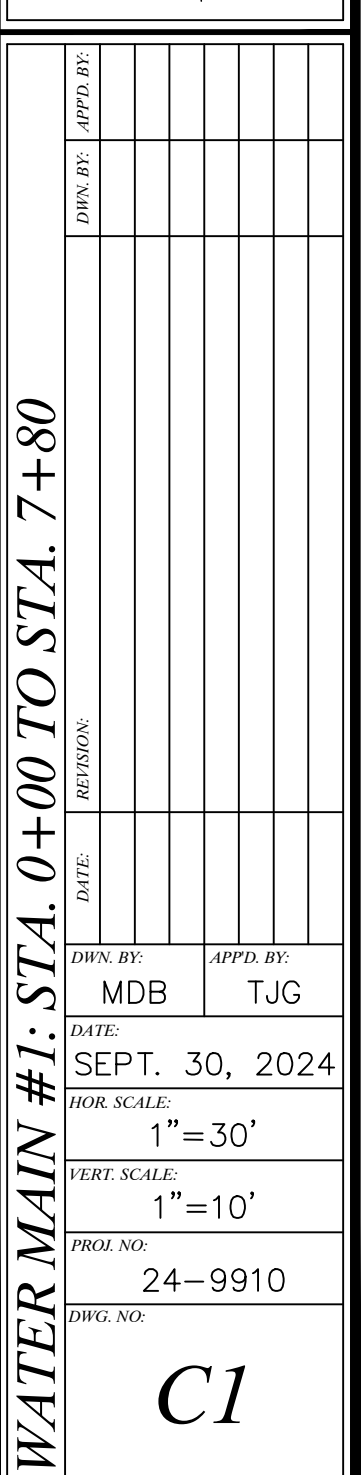
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All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (ie. Trenching, Blasting, etc.)



*WATER MAIN IMPROVEMENTS
HARRISON ST. & COLUMBIA ST.
CITY OF FARMINGTON*

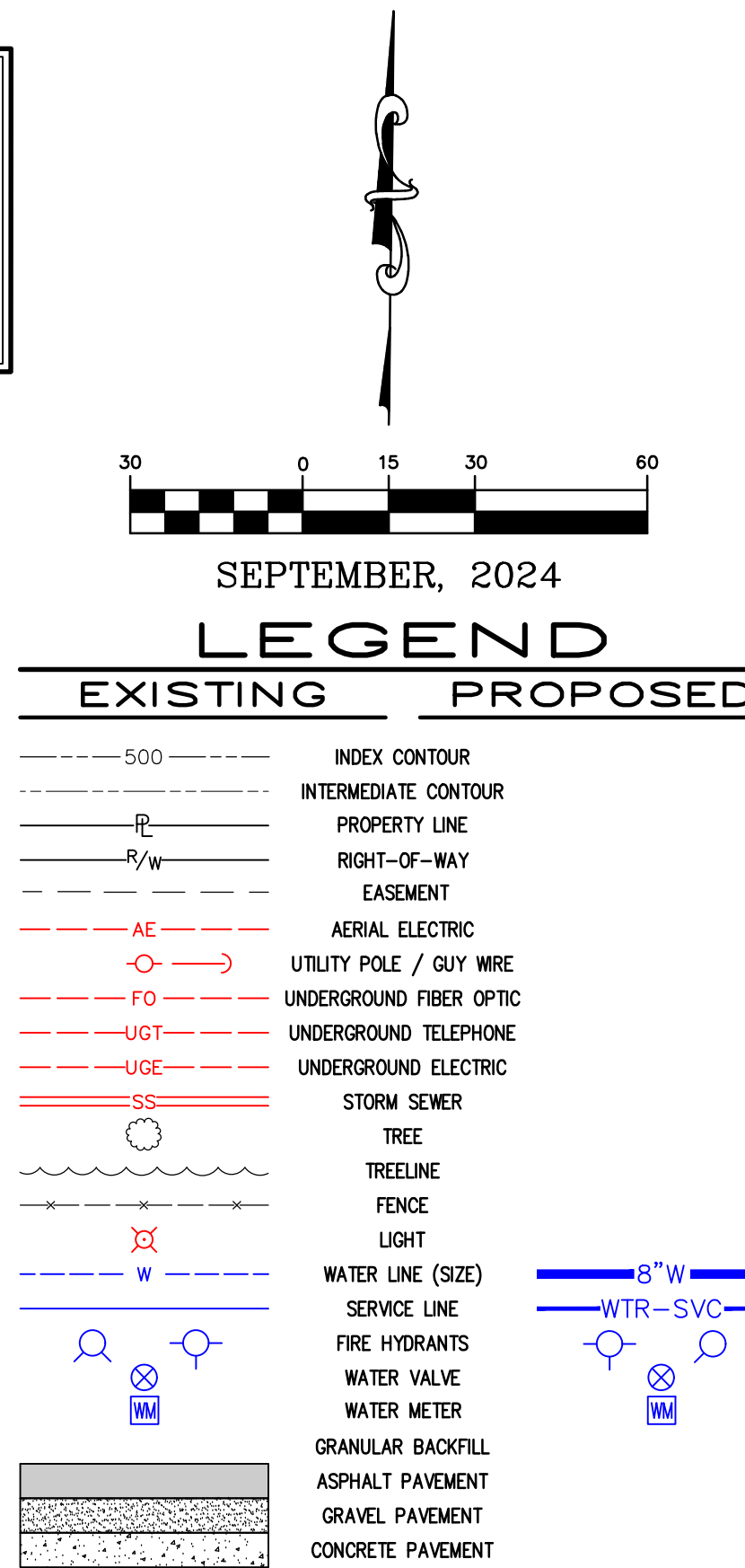


OUT TO BID

FOR BIDDING PURPOSES ONLY
NOT TO BE USED FOR CONSTRUCTION

NOTE:
EXISTING METERS AND FIRE HYDRANTS REMOVED
DURING PROJECT SHALL BE RETURNED TO THE
CITY.

NOTE:
CONTRACTOR TO REMOVE EXISTING FIRE HYDRANT
AND RETURN TO THE CITY AT THEIR
CONVENIENCE



Three working days prior to the start of any excavation on this site, CONTRACTOR shall call 1-800-DIG-RITE for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (i.e. Trenching, Blasting, etc.)

MOFFET & ROLOFF

WATER MAIN #1: STA. 7+80 TO STA. 12+31		RELATION:		DATE:	OWN. BY:	APPRO. BY:
		MDB		TJG		
		SEPT. 30, 2024				
		HOR SCALE				
		1"=30'				
		VERT SCALE				
		1"=10'				
PROJ. NO.		24-9910				
DOWNS		NO				

WATER MAIN #1: STA. 7+80 TO STA 12+31

C2

DWG NAME: F:\Jobs\24-9910 - Farmington Watermain Replacement Projects\AutoCad Drawings\XXX - Plan Sheets\NORTH\CX - WATER MAIN #2 - HENRY ST.dwg LAYOUT TAB: C3 - PLOTTED ON: Sep 30, 2024 - 11:45am PLOTTED BY: TGarbs

NOTE:
ALL EXISTING WATER MAINS SHALL BE ABANDONED ONCE ALL SERVICES HAVE BEEN TRANSFERRED.

NOTE:
CONTRACTOR SHALL MAINTAIN 42" COVER (MINIMUM) OVER TOP OF NEW WATER MAIN WHILE ENSURING 18" MINIMUM SEPARATION BETWEEN EXISTING SANITARY SEWER AND NEW WATER MAIN. (CONTRACTOR TO FIELD VERIFY LOCATION BEFORE INSTALLATION OF NEW WATER MAIN).

NOTE:
UNDERGROUND UTILITIES SHOWN ARE FROM UTILITY LOCATES AND ANY ADJUSTMENT OF UTILITIES SHALL BE COORDINATED WITH THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE. THESE CONFLICTS MAY REQUIRE LOWERING OF THE UTILITY TO AVOID CONFLICT.

NOTE:
THE TRENCH SHALL BE FILLED WITH COMPACTED GRANULAR BACKFILL TO EXISTING GRADE.

NOTE:
CONTRACTOR SHALL ONLY HAVE 300 LINEAL FEET OF ROAD UNDER CONSTRUCTION AT ONE TIME. NO STREETS SHALL HAVE AN OPEN TRENCH LEFT OVER THE WEEKEND. ONE-WAY TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES.

NOTE:
ALL STORM CULVERTS DAMAGED OR REMOVED DURING WATER MAIN CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR WITH NEW PIPES OF LIKE SIZE AND MATERIAL AT THEIR EXPENSE.

NOTE:
CONTRACTOR SHALL SAWCUT PAVEMENT FULL DEPTH TO ENSURE A SMOOTH JOINT. FOR READABILITY SAWCUT AND PAVEMENT REPAIR IS NOT SHOWN IN THE PLAN VIEW. (SEE ASPHALT PAVEMENT REPAIR DETAIL, SHEET D1)

NOTE:
SEE NOTE SHEET FOR EROSION CONTROL NOTES.

NOTE:
CONTRACTOR TO REMOVE EXISTING WATER METERS AND CURB STOPS AND REPLACE WITH NEW MINNESOTA STYLE CURB STOPS AND NEW WATER METERS.

NOTE:
EXISTING WATER MAIN SHALL BE PHYSICALLY DISCONNECTED FROM THE SYSTEM AFTER NEW MAIN IS PLACED INTO SERVICE.

NOTE:
ALL FITTINGS TO INCLUDE RETAINER GLANDS AND THRUST BLOCKING.

NOTE:
CONTRACTOR TO REMOVE EXISTING FIRE HYDRANTS AND RETURN TO THE CITY AT THEIR CONVENIENCE.

NOTE:
ALL GATE VALVES IN GRASS AREAS SHALL HAVE A CARBONITE GLASS FIBER UTILITY STAKE WITH THE WORDS "WATER VALVE". THE UTILITY STAKE SHALL BE "WHITE" IN COLOR WITH "BLUE" LETTERING. VALVE CLUSTERS PART OF HYDRANTS AND DETAILS SHALL ONLY REQUIRE ONE STAKE.

NOTE:
EXISTING METERS AND FIRE HYDRANTS REMOVED DURING PROJECT SHALL BE RETURNED TO THE CITY.

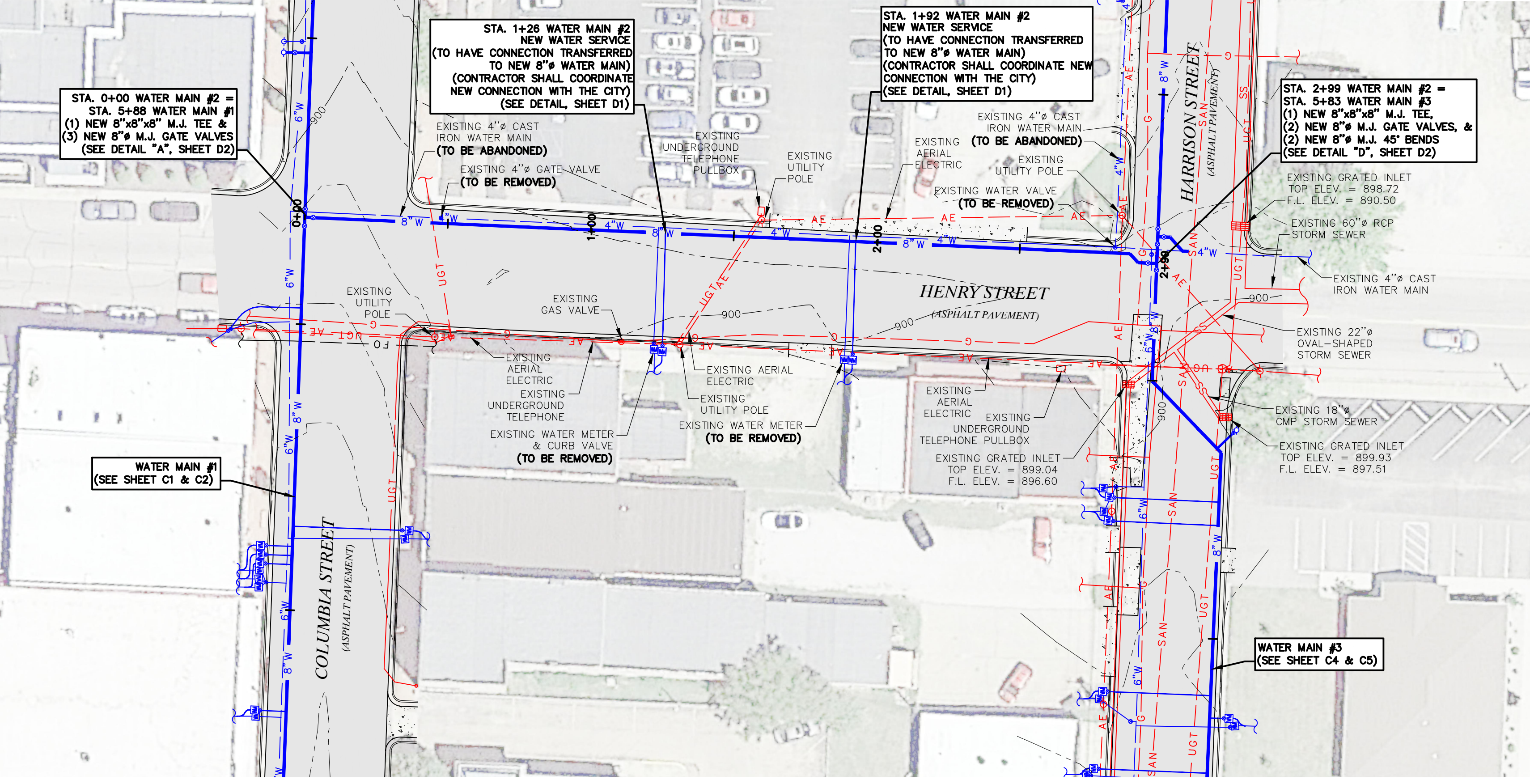
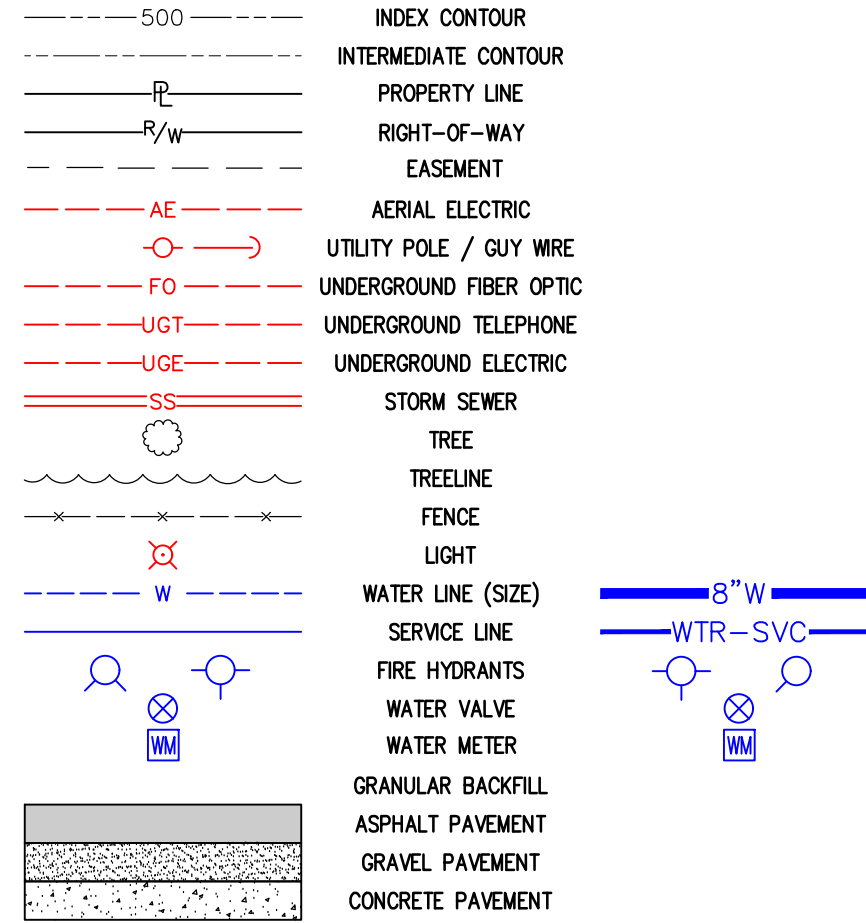
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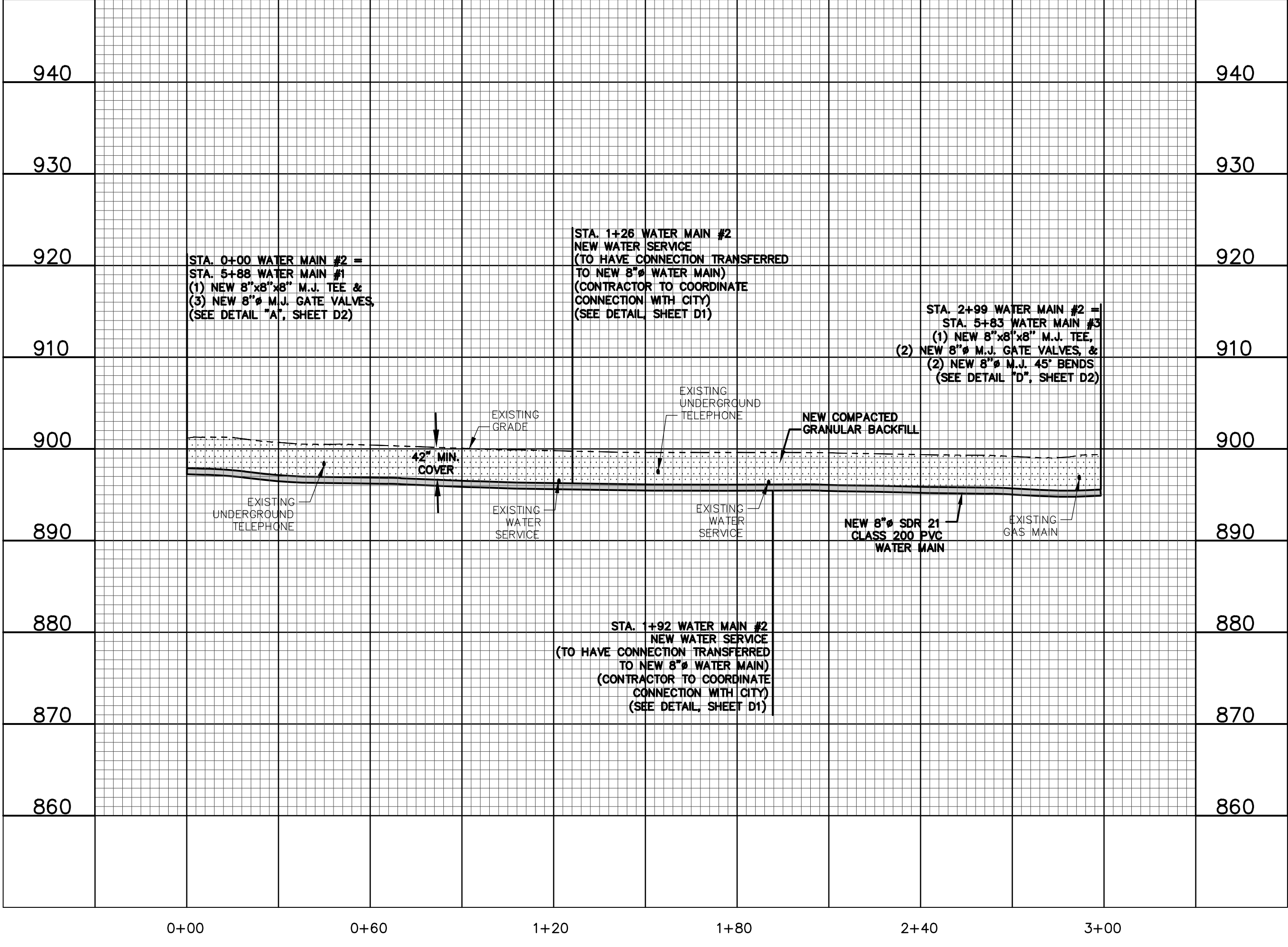


SEPTEMBER, 2024

LEGEND
EXISTING PROPOSED



WATER MAIN #2: STA. 0+00 TO STA. 2+99



636-584-0540 (tel.)
636-584-0512 (fax)
mail@cochran.com

630A E. Independence Dr.
Union, Missouri 63084

COCHRAN

Missouri State Certificate of Authority Numbers:
Survey : 000380
Engineering : 001855
Architecture : 2002014240

Three working days prior to the start of any excavation call 1-800-UG-RITE for utility location information.

All OSHA rules & regulations shall be strictly followed. Plans and specifications shall be strictly followed (ie. trenching, blasting, etc.).

STATE OF MISSOURI
TIMOTHY J. GARBS JR.
NUMBER
PE-2023022892
9-30-24
PROFESSIONAL ENGINEER

Timothy J. Garbs, PE
MO# PE-2023022892

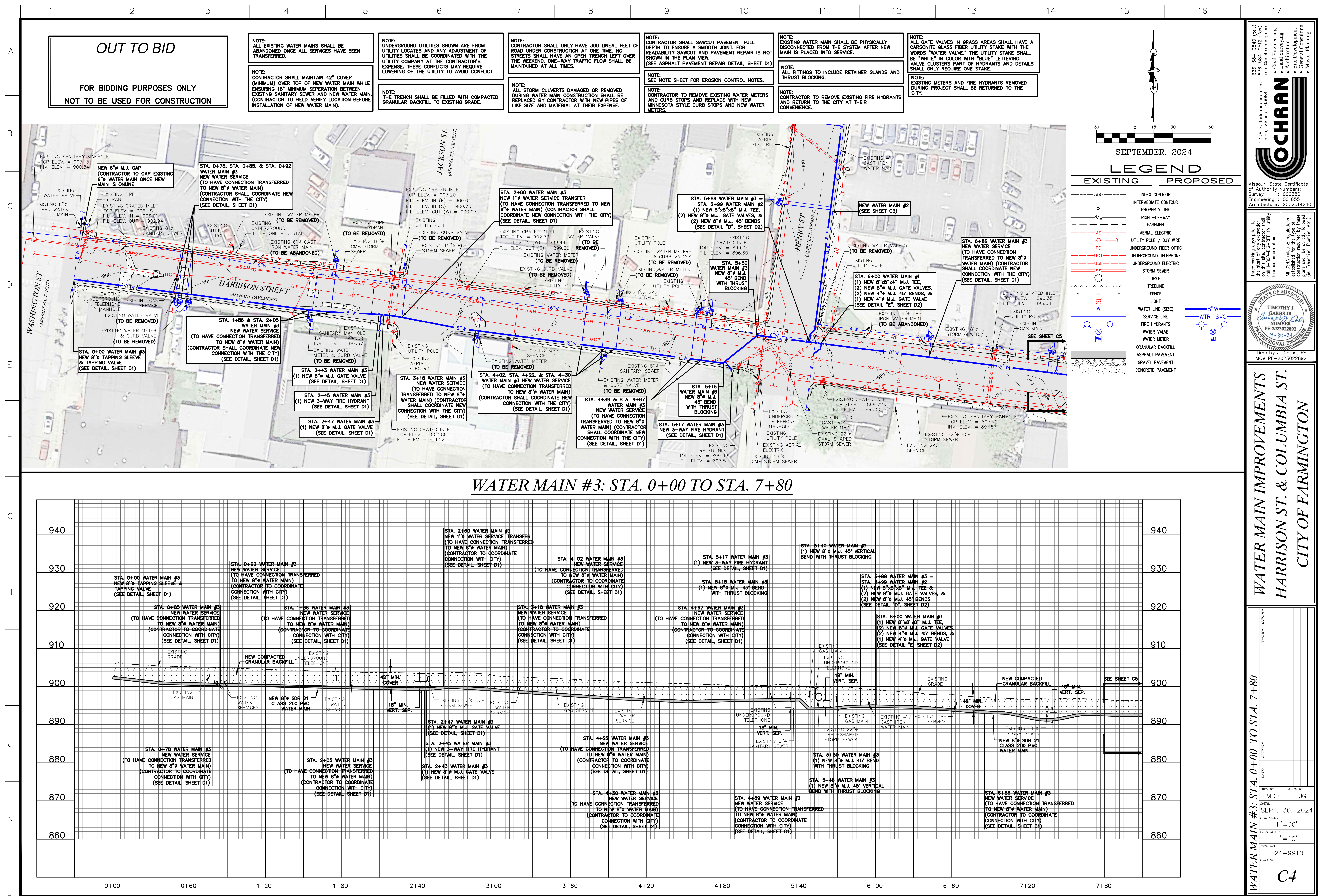
WATER MAIN IMPROVEMENTS
HARRISON ST. & COLUMBIA ST.
CITY OF FARMINGTON

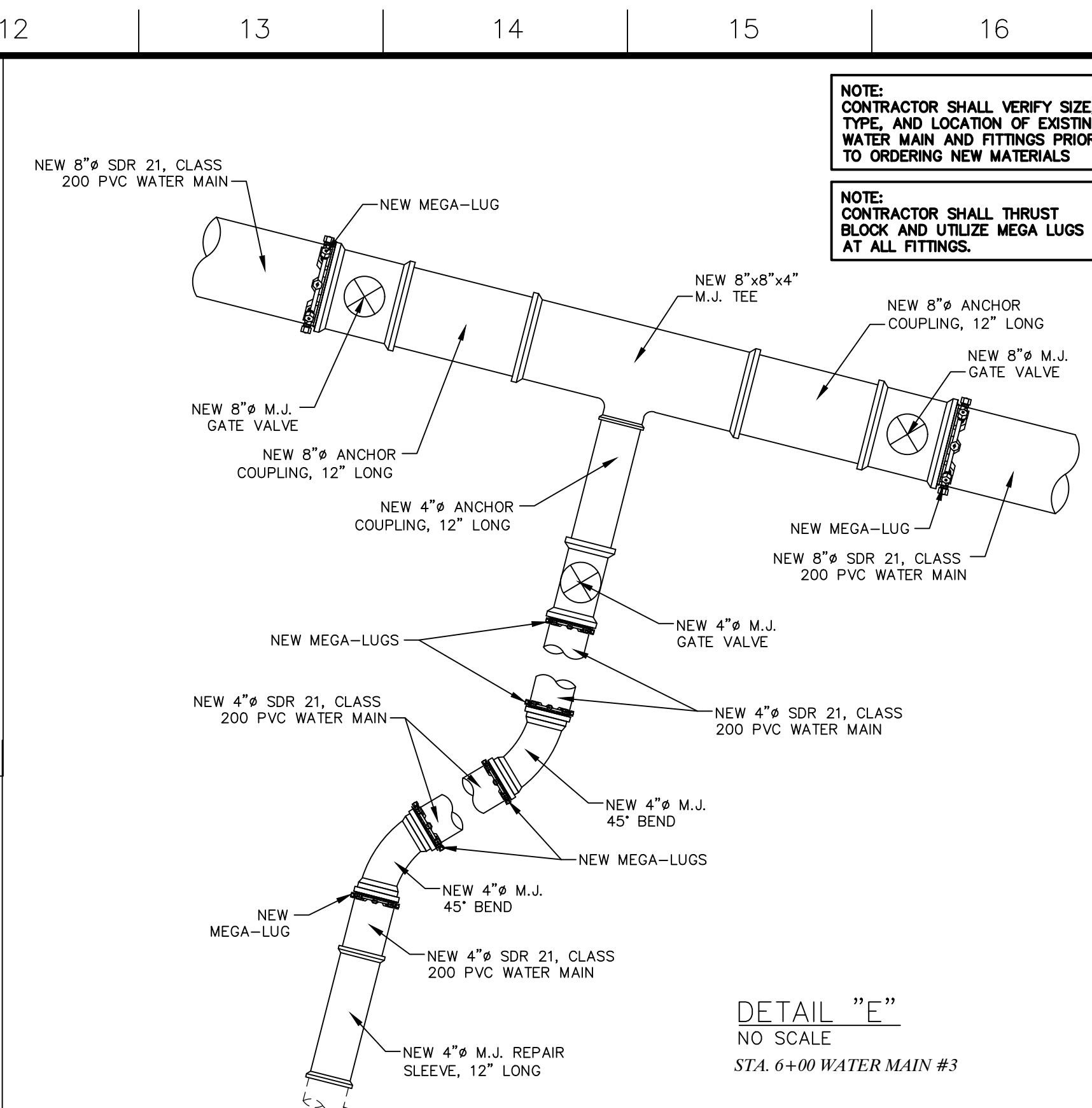
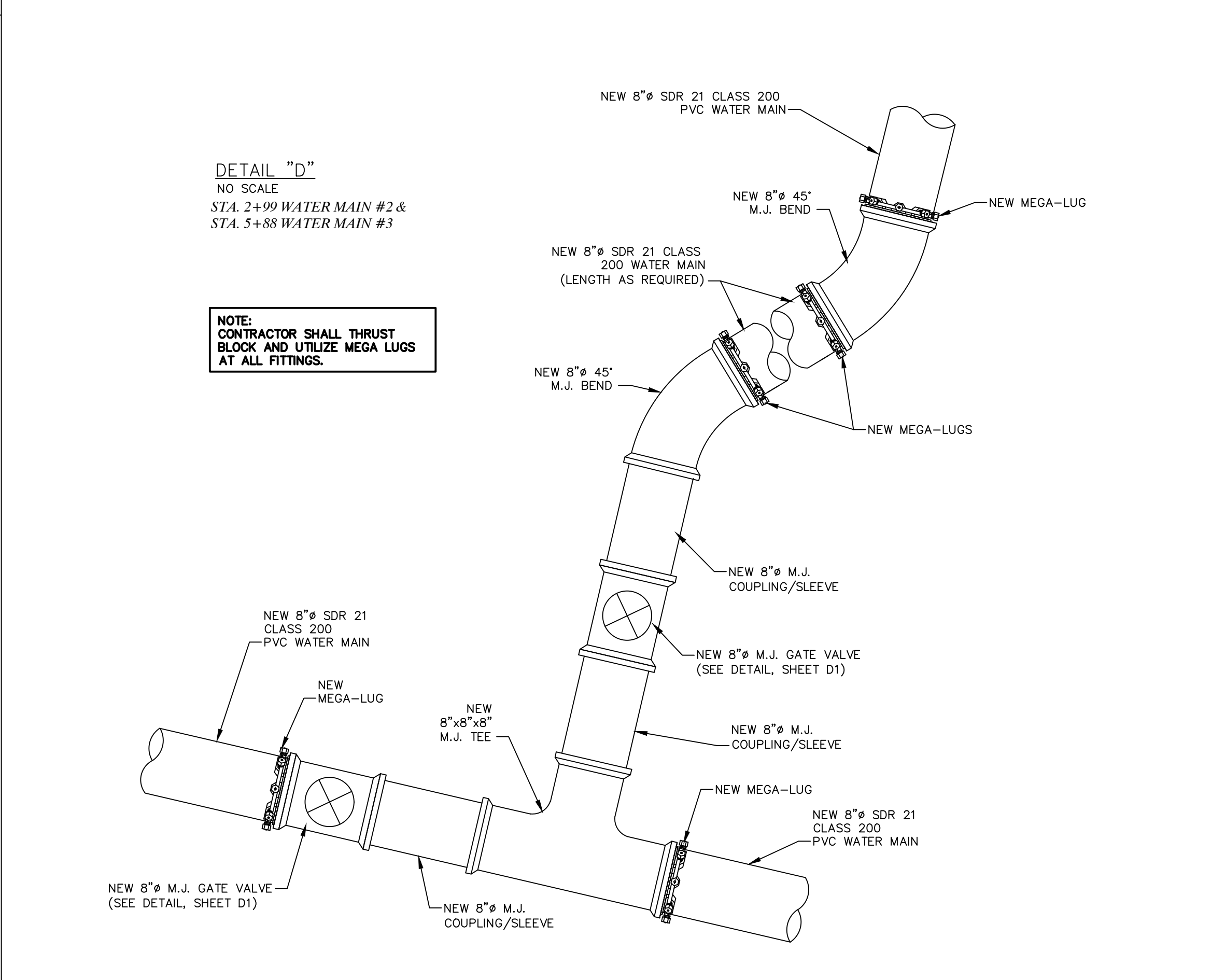
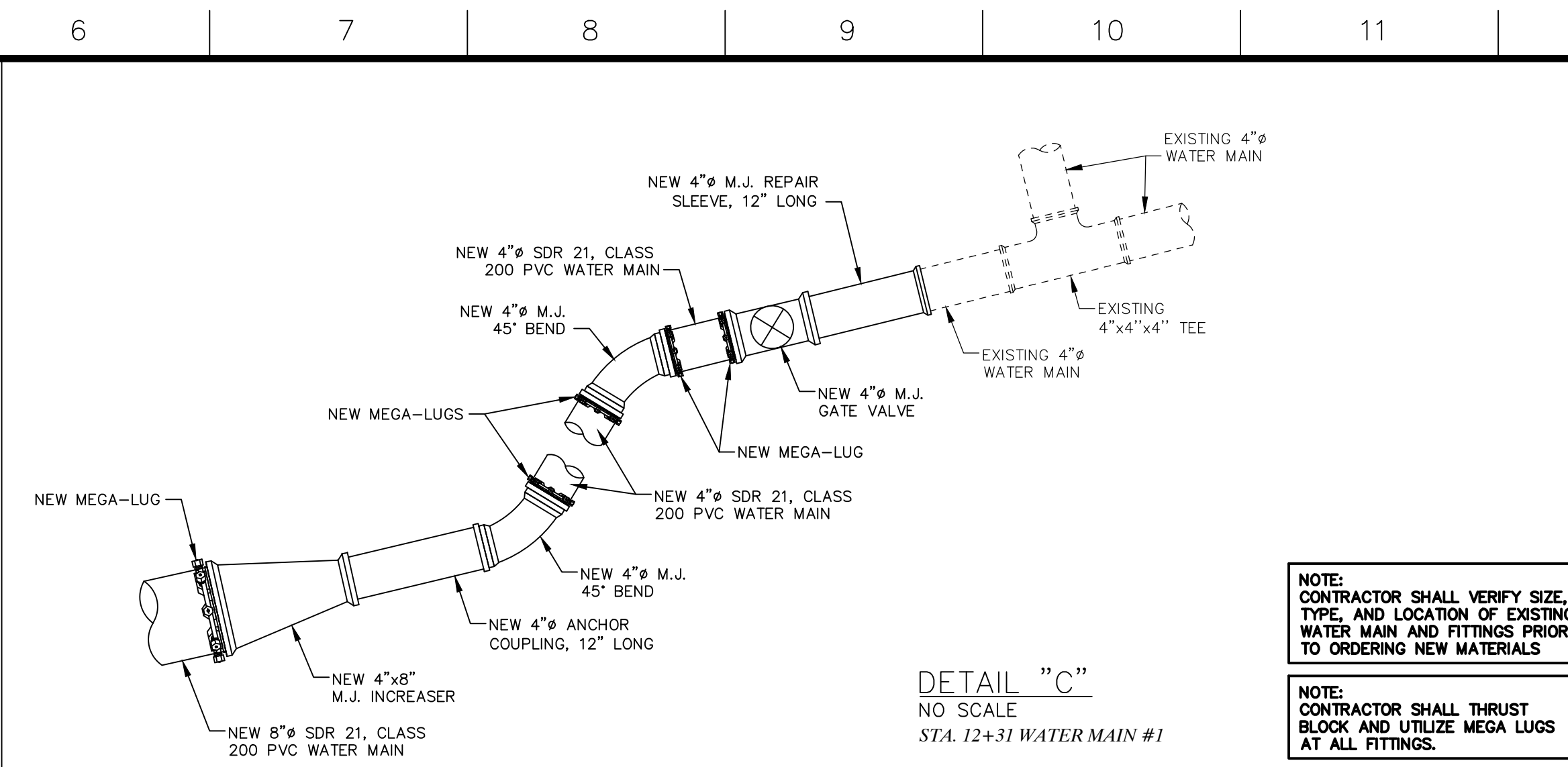
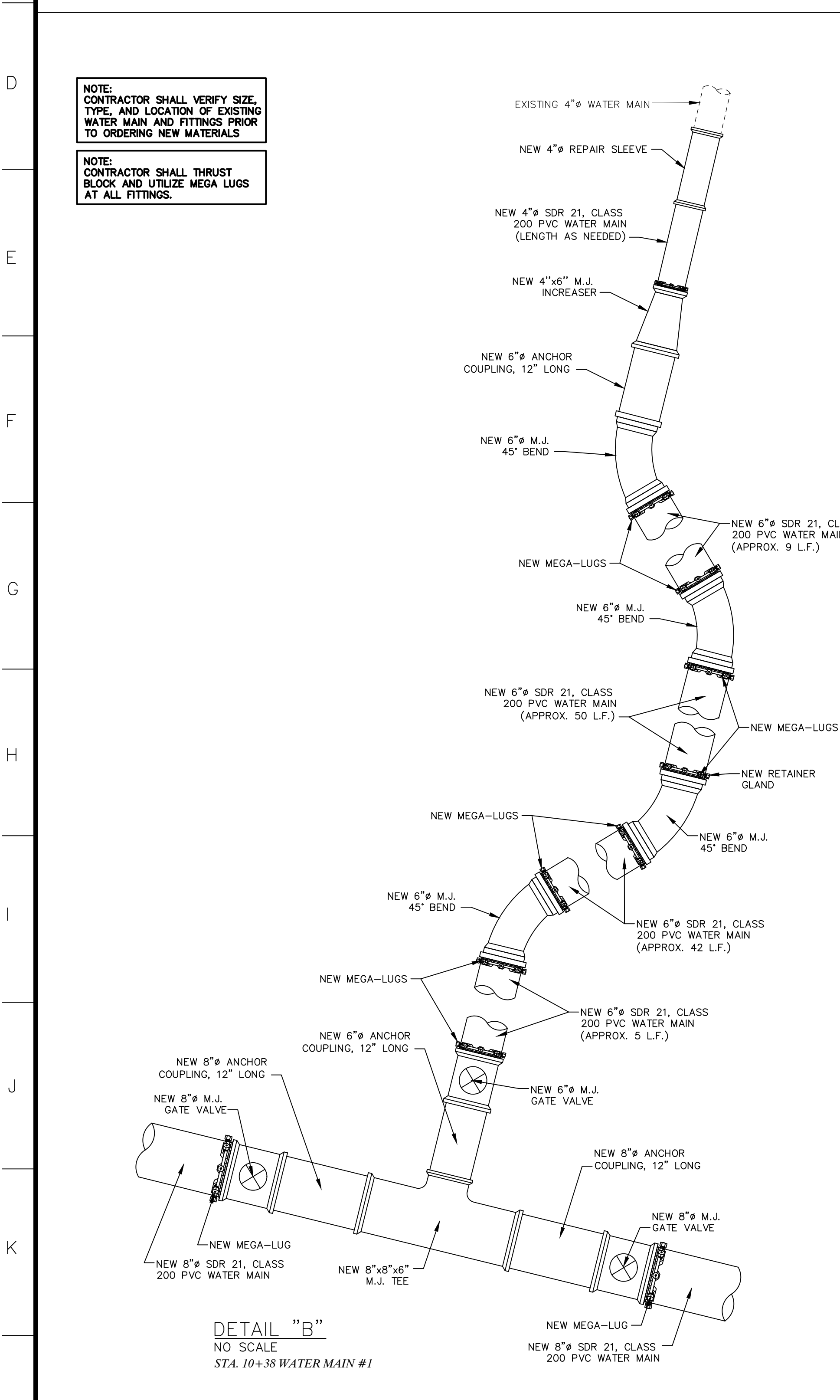
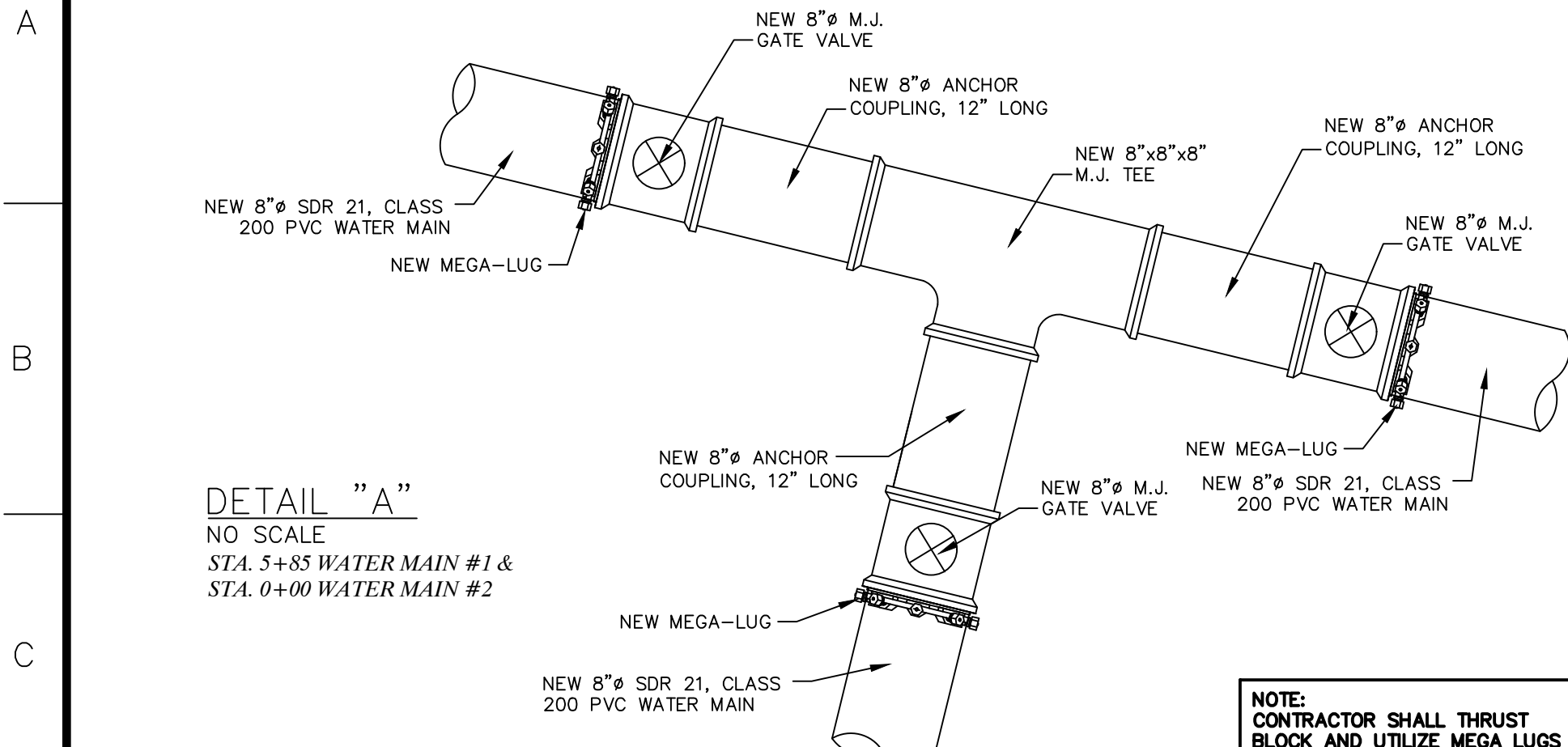
WATER MAIN #2: STA. 0+00 TO STA. 2+99

DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:
DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:

DATE: MDB APPD. BY: TJG
DATE: SEPT. 30, 2024
HOR. SCALE: 1"=30'
VERT. SCALE: 1"=10'
PROJ. NO.: 24-9910
DWG. NO.: C3

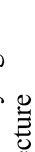
DWG NAME: F:\Jobs\24-9910 - Farmington Watermain Replacement Projects\AutoCad Drawings\XXX - Plan Sheets\WORTH\CK - WATER MAIN #3 - HARRISON St.dwg PLOTTED ON: Sep 30, 2024 - 12:42pm PLOTTED BY: TGarbs





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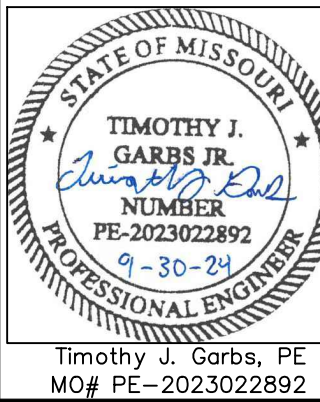
530A E. Independence Dr.
Union, Missouri 63084

636-384-0540 (tel.)
636-384-0512 (fax)
mailto:info@ochron.com

- Civil Engineering
- Land Surveying
- Architecture
- Site Development
- General Consulting
- Master Planning

Three working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utility location information.

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***WATER MAIN IMPROVEMENTS
COLUMBIA ST. & HARRISON ST.
CITY OF FARMINGTON***

DETAIL SHEET		DATE	REV. DRAWN	DATE	APP'D. BY
DATE:		DB			
SCALE:		MD			
PROJ. NO.		24-9910			
DRG. NO.		D2			

D2