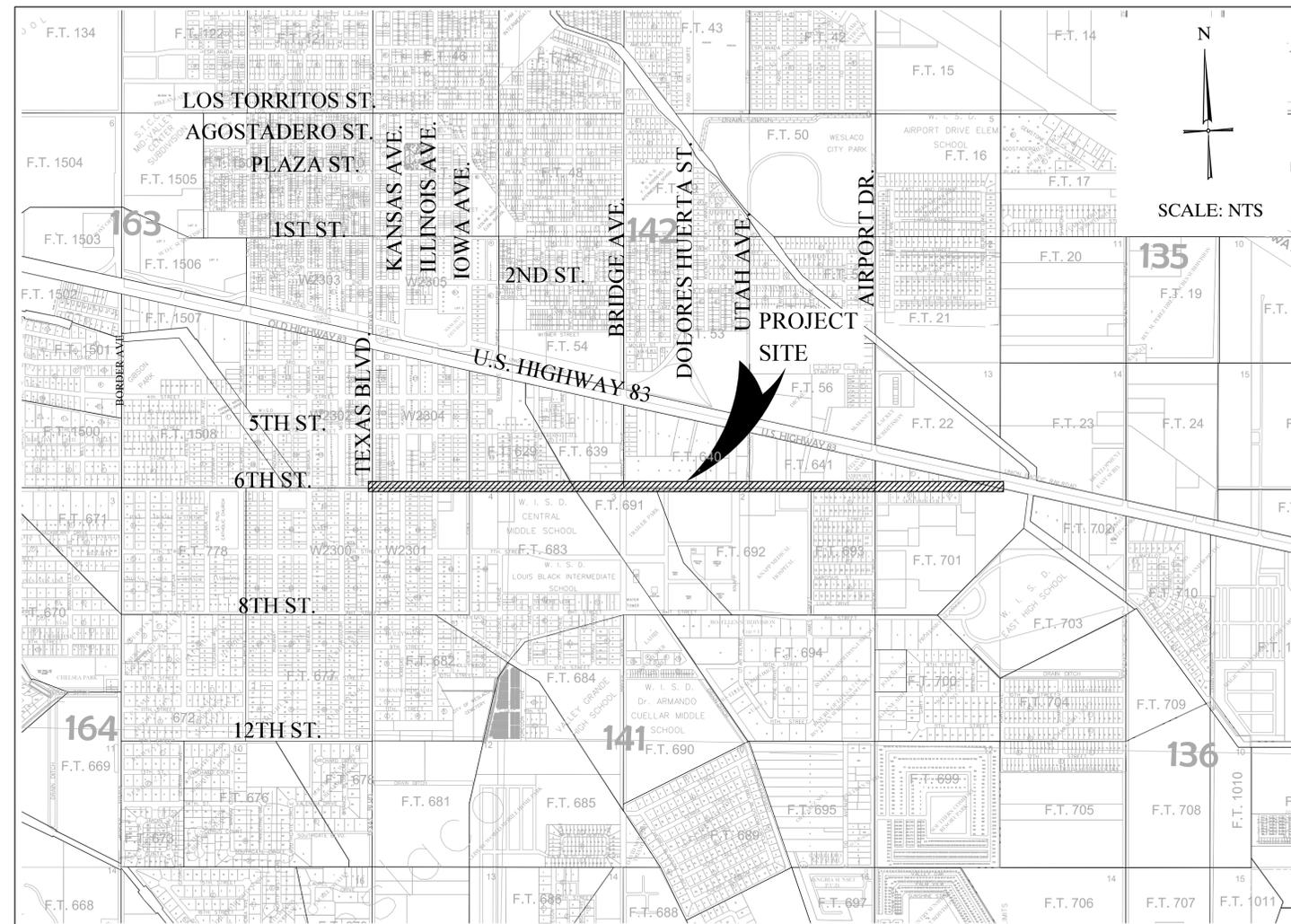


CITY OF WESLACO

PLANNING AND CODE ENFORCEMENT



6TH ST. WATER LINE IMPROVEMENTS (TEXAS BLVD. TO U.S. HIGHWAY 83) WESLACO, TEXAS

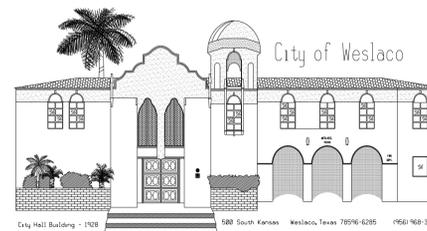


CITY OFFICIALS

DAVID SUAREZ	MAYOR
OLGA M. NORIEGA	(MAYOR PRO-TEM) DIST. 3
DAVID R. FOX	DIST. 1
GREG KERR	DIST. 2
GERARDO "JERRY" TAFOLLA	DIST. 4
LUPE V. RIVERA	DIST. 5
FIDEL L. PENNA III	DIST. 6
MIKE PEREZ	CITY MANAGER

SHEET INDEX

- COVER SHEET
- C1 GENERAL NOTES/ESTIMATED QUANTITIES
- C2 EROSION CONTROL PLAN
- C3 PROPOSED WATER PLAN AND PROFILE (1 OF 4)
- C4 PROPOSED WATER PLAN AND PROFILE (2 OF 4)
- C5 PROPOSED WATER PLAN AND PROFILE (3 OF 4)
- C6 PROPOSED WATER PLAN AND PROFILE (4 OF 4)
- C7 MISCELLANEOUS DETAILS



GENERAL NOTES:

1. All improvements to be in accordance with City of Weslaco Codes.
2. Contractor to plan and perform his work in a manner that will permit safe public traffic movement on all streets.
3. Contractor to be responsible for protection and/or safety of the work site. Workers, Sub-Contractors, Materials and/or Equipment.
4. Contractor shall be responsible for obtaining all permits required and at Contractor's expense.
5. Contractor shall give notice to all authorized inspectors, superintendents, or persons in charge of private and public utilities affected by his operations prior to commencement of work. Notify Texas One Call for utility locations prior to any and all excavations.
6. Upon completion of construction contractor shall return the site to original contours unless different finished elevations are shown on plans. Contractor to insure no areas of ponding are present. Upon completion of construction contractor shall return the site to original conditions including but not limited to backfill, top soil, hydro mulch, etc.
7. Concrete Notes:
 - A. All concrete work to be formed, unless otherwise approved.
 - B. All concrete to be 3500-PSI minimum at 28 days, unless otherwise shown. Strength to be determined by cylinder break test.
 - C. All reinforcing steel to be ASTM A-615, Grade 60, unless otherwise shown.
 - D. All exposed concrete work to be chamfered.
8. Contractor to insure same day access to all residence and businesses adjacent to construction.
9. Demolition, removal & disposal of all excess concrete, curbs, rubble, etc. to be done in a legal manner at contractor's expense.
10. Prior to construction, Contractor, Owner and City Engineer to perform on-site field inspection to document existing conditions (notes & photos).
11. Contractor to contact all utilities companies in the area for field verification of existing facilities.
12. Contractor to expose any existing facility that may be in conflict prior to start of excavation.
13. It shall be the Contractor's responsibility to remove all excavated material and debris from the site.
14. Contractor shall at all times allow access to existing driveway or provide/maintain alternative all-weather routes.
15. All traffic control devices shall be in conformance with the Texas Manual of Uniform Traffic Control Devices latest edition. Trenches or excavations may not be left open overnight.
16. Any damages to fences, walks or private property shall be repaired by the contractor at the contractor's expense, no separate pay.
17. All construction materials testing will be coordinated through City of Weslaco Planning & Code Enforcement Department.

WATER LINES:

1. Waterlines to be constructed in accordance with specification Section 02511 "Water Mains".
2. Waterlines to be constructed with a 3-foot minimum cover or as shown on profile.
3. Waterlines and fittings to conform to AWWA C-900 Class 150 DR-18, for 4-inch through 12-inch, unless otherwise noted on plans or directed by owner. Service line smaller than 2-inches shall be polyethylene water tubing "tough tubing" ASTM D2737. Service lines 2-inches or greater shall be PVC SCH 40.
4. All values and ductile iron fittings, except fire hydrants, shall be wrapped with 8-mil polyethylene film. Secure polyethylene wrap with 3-inch-wide plastic-backed adhesive tape (polyethylene No. 900. Scotchwrap No. 50 or approved equal). All fittings shall be mechanical joint with restraining gland (EBBA Iron Inc. Mega-lug or approved equal), no separate pay if not identified on quantities.
5. Contractor to provide adequate concrete thrust blocking to withstand test pressure of 150psi.
6. Contractor shall notify the City Engineer immediately upon encountering any leaking sanitary sewer during installation of waterlines.
7. Contractor shall maintain the integrity of the existing waterlines during construction. Following construction, testing, and disinfection of new waterlines contractor shall, upon 24-hour notice to the City Engineer, cut, plug, and abandon existing waterlines, remove fire hydrants, and valves on fire hydrant leads. Transfer all affected services to the proposed mains prior to abandonment of existing mains. Unless otherwise directed by the City Engineer, all fire hydrants and valves on fire hydrant leads shall be taken to the City of Weslaco salvage yard unless otherwise instructed.
8. Inline valves on existing lines being abandoned shall be closed watertight, plugged, thrust blocked, and the operating nut on said valve be cut off. All valve boxes on abandoned lines shall be removed, except those in paved areas. Those located in paved areas shall be poured full of concrete and the cap shall be permanently removed. Contractor to notify the City Engineer when any valve on a line being abandoned fails to fully close or is not fully operational. All existing lines to be abandoned to be completely severed from new system.
9. Contractor may deflect waterlines slightly to avoid conflicts with utilities or other obstruction. The City of Weslaco Public Utilities and Planning Departments must be contacted for approval at least 24-hours in advance of any decision to deflect waterlines. Contractor to keep accurate records of locations where waterlines are deflected for required reline record print set.
10. Contractor is to install temporary blow-off valves as required to flush the newly constructed waterline for chlorination and testing. Temporary blow-off valves shall be removed by the contractor promptly upon successful completion of all testing.
11. Contractor to allow 6-inch minimum clearance between proposed waterlines and other facilities unless otherwise noted.
12. Contractor to maintain 9-foot minimum clearance in all directions between proposed waterlines and sanitary sewer, force mains, and sanitary manholes unless otherwise noted. Where this cannot be achieved, provide clearance as required by the TCEQ rules and regulations for public water systems. (Latest Revision).

WATER LINES CONT'D:

13. Contractor shall maintain a 2-foot absolute minimum clearance (out-to-out) of pipes where the proposed waterline crosses over sanitary sewer. Contractor shall maintain a 9-foot absolute minimum clearance (out-to-out) of pipes where the proposed waterline must cross under a sanitary sewer. Otherwise install proposed waterline in 20-foot joint of steel casing pipe centered on sewer. Where proposed sewer is parallel to waterlines, maintain 2-foot vertical and 4-foot horizontal clearances.
14. For requirements for steel encasement pipe, seals, spacers, etc... See specification section 02447 Augering Pipe for Water Lines.
15. Where proposed waterlines cross within 9 feet of the end of a sanitary sewer, center one (1) 20-foot joint of C-900 PVC DR-18, Class 150 waterline over the sanitary sewer.
16. Backfill in pipe zone to be in accordance with specification section 02511 "Water Mains".

WATER MAIN – SANITARY SEWER CROSSINGS:

Primary Condition	Proposed Water Existing Sanitary				Proposed Water Proposed Sanitary or Existing Water Proposed Sanitary			
	Water Over Sanitary		Water Under Sanitary		Water Over Sanitary		Water Under Sanitary	
If the Clearance Is	Less Than 2'	Greater Than 2' But Less Than 9'	Less Than 2'	Greater Than 2' But Less Than 9'	Less Than 2'	Greater Than 2' But Less Than 9'	Less Than 2'	Greater Than 2' But Less Than 9'
*Protection Requirement	1	2	3	4	5	6	3	6

**Protection requirements for sanitary sewer crossings (Unless variance is granted by the TCEQ) (All clearances shall be measured from outside wall to outside wall)*

1. Center one (1) 20-foot joint of C-900 PVC DR-18, Class 150, waterline pipe over sanitary sewer; 6-inch absolute minimum clearance.
2. If no evidence of sanitary sewer leakage, center one joint of water line over sanitary sewer: 24-inch absolute minimum clearance. If the sewer line is leaking, the sewer line shall be replaced with 150 psi lined ductile iron or pvc pipe with appropriate adapters on all lined ductile iron or pvc pipe with appropriate adapters on all portions of the sanitary sewer within 9-feet of the water main.
3. Not allowed
4. Auger 9-feet minimum each side of sanitary sewer, place one 20-foot joint of C-900 PVC, 150 psi, centered under sanitary sewer. Fill bored hole with bentonite/clay moisture: 2-foot absolute minimum clearance or replace the existing sanitary sewer with 150 psi line ductile iron or PVC pipe with appropriate adapters on all portions of the sanitary within 9-feet of the water main.
5. Minimum 18-foot joint of sanitary sewer, 150 psi lined ductile iron or PVC pipe centered at the water line; 6-inch absolute minimum clearance.
6. If clearance is between 2 to 9-feet
 - a. Center a minimum 18-foot joint of 150 psi lined ductile iron or PVC pipe at water line.
 - b. Use cement-stabilized sand backfill (minimum 2 sacks cement per cubic yard of sand) starting at a pint ¼ of the pipe diameter above the bottom of the sanitary sewer to 1-foot above the top of sanitary sewer, or one sanitary sewer diameter, whichever is larger. Center one joint of sanitary sewer pipe about the water main.
7. All water crossings to be approved by the City of Weslaco upon completion.

EROSION CONTROL GENERAL NOTES:

1. IT IS THE INTENT OF THIS SUGGESTED EROSION CONTROL PLAN AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH FEDERAL REGULATIONS. CONTRACTOR SHALL PREPARE AND SUBMIT A NOTICE OF INTENT PER THE REQUIREMENTS IN THE NPDES GENERAL PERMIT. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TPDES GENERAL PERMIT FOR REGION 6 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES.
2. THE STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THREE GOALS:
 - A) DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;
 - B) LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND
 - C) REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
3. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
4. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

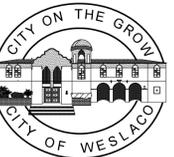
EROSION GENERAL NOTES CONT'D:

5. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
6. AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
7. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE NPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE POLLUTION PREVENTION PLAN,
8. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:

DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR;
REGULAR COLLECTION OF WASTE;
CONVENIENTLY LOCATED WASTE RECEPTACLES; AND
DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.

9. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
10. AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
11. BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
13. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.

BASE BID		
Description	Unit	Estimated Quantity
Water Improvements Base Bid		
8" PVC DR-18 C-900 w/fittings	LF	6745
Fire Hydrant w/valve	EA	1
8" Gate Valve w/box	EA	14
8" Cross	EA	3
8" Tee	EA	36
12" Tee	EA	2
16" Tee	EA	2
8" 90° Bend	EA	2
8" 11.25° Bend	EA	1
Connect Water Services	EA	31
Erosion Control		
Erosion Control Logs	EA	29
Pavement Improvements		
Geotextile Fabric	SY	



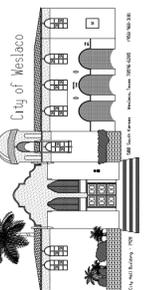
6TH ST.
WATER LINE IMPROVEMENTS
WESLACO, TEXAS

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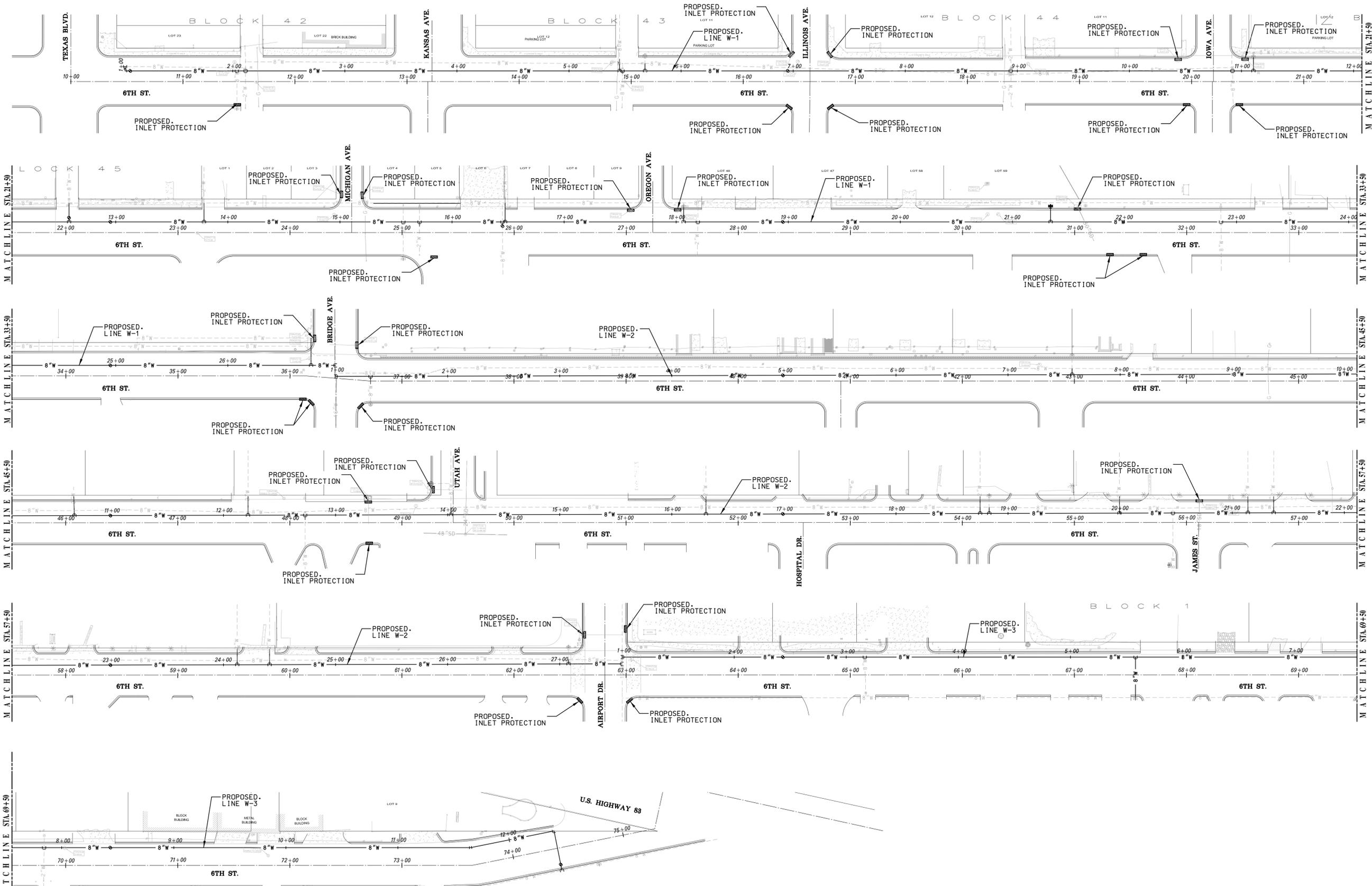
REVISIONS:

C-1
GENERAL NOTES/
EST. QUANTITIES





SCALE: 1"=40'



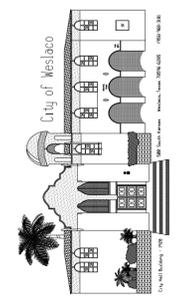
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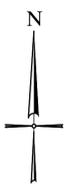
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REVISIONS:

C-2
EROSION
CONTROL
PLAN
SCALE: 1"=40'



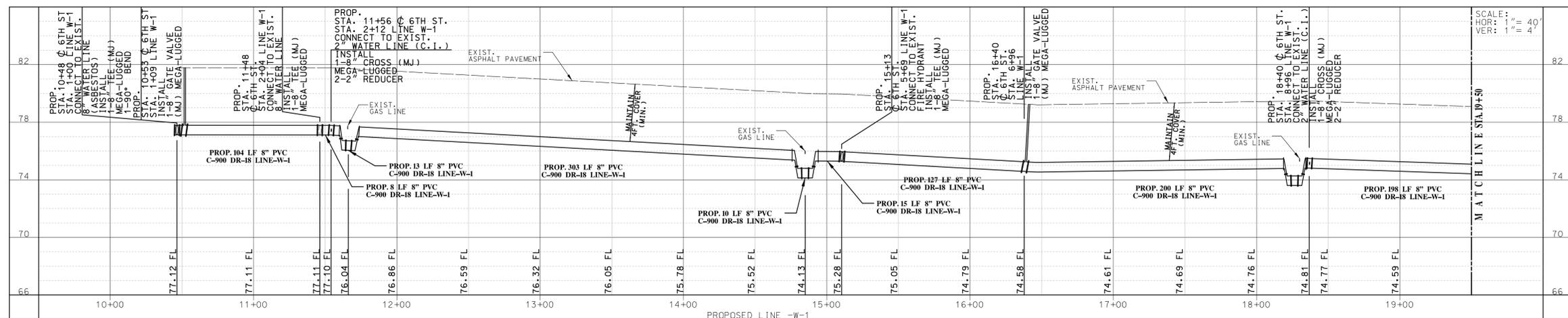
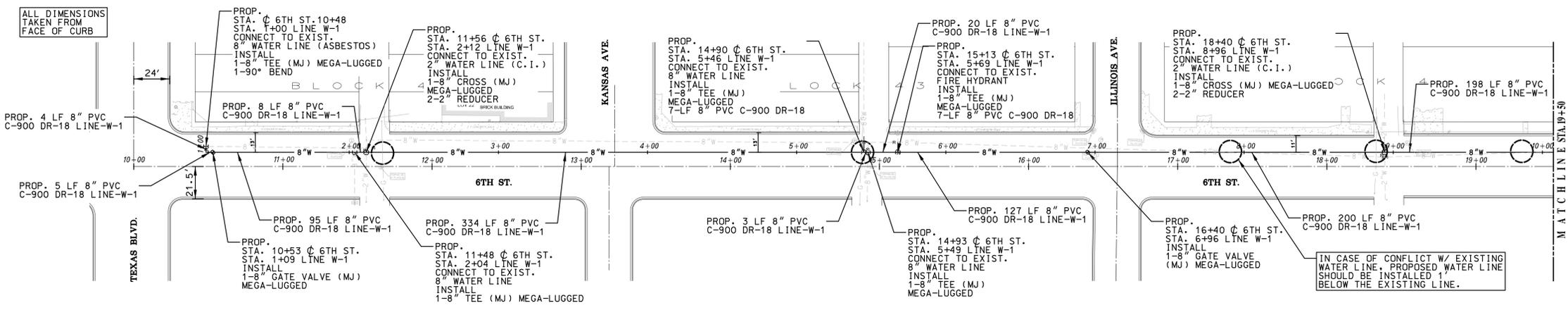


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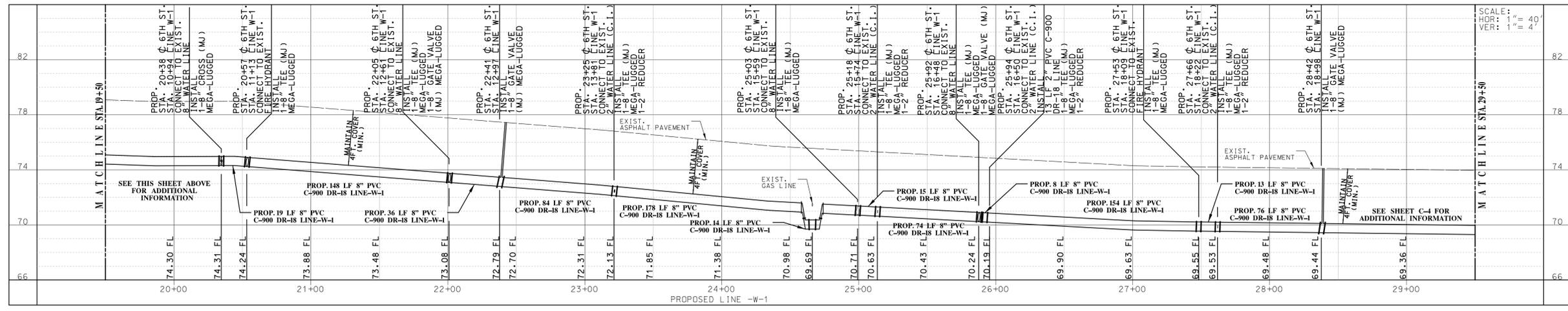
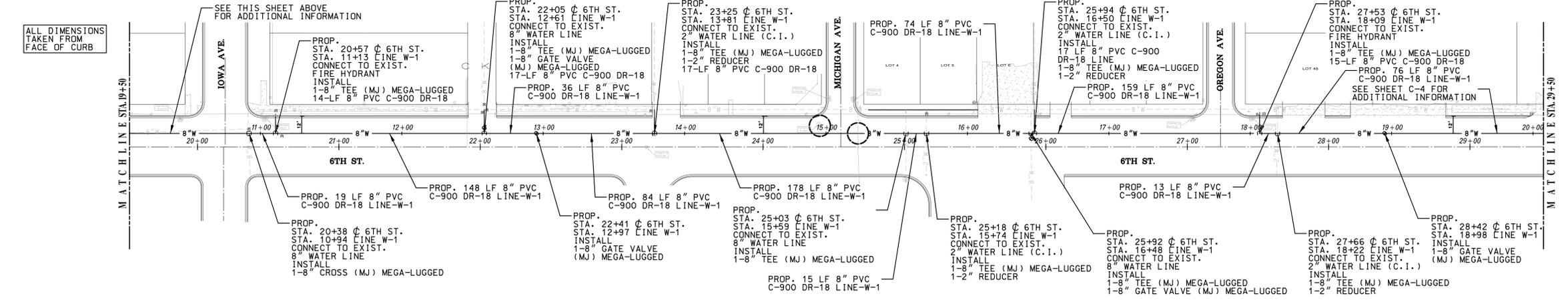
LEGEND

- EX. FIRE HYDRANT
- EX. 2" WATER LINE
- EX. 8" WATER LINE
- EX. 12" WATER LINE
- EX. 16" WATER LINE
- EX. 18" STORM DRAIN
- EX. 24" STORM DRAIN
- EX. 30" STORM DRAIN
- EX. GAS LINE
- EX. FENCE
- PROP. GATE VALVE
- PROP. FIRE HYDRANT
- PROP. 8" WATER LINE
- PROP. 6" WATER LINE
- EX. TREE
- EX. SEWER MANHOLE
- EX. WATER VALVE
- EX. TELEPHONE MANHOLE
- EX. GAS METER
- EX. STORM INLET
- EX. SIGN
- EX. GUY WIRE
- EX. SPRINKLER VALVE
- EX. ELECTRIC METER
- EX. UTILITY POLES
- EX. COMMUNICATIONS BOX
- CAUTION UTILITY CROSSING

6TH ST.
WATER LINE IMPROVEMENTS
WESLACO, TEXAS



SCALE: 1"=40'
HOR: 1"=40'
VER: 1"=4'



SCALE: 1"=40'
HOR: 1"=40'
VER: 1"=4'

NOTES:

1. EXISTING ABOVE GROUND UTILITIES AND TOPOGRAPHY HAVE BEEN PLOTTED BY DIRECT FIELD INFORMATION, AND AS SPOTTED BY UTILITY LOCATE REQUEST. THE CONTRACTOR WILL BE RESPONSIBLE FOR ESTABLISHING THEIR EXACT LOCATION, DEPTH, AND SIZE. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF ALL CUT OR BROKEN WATER LINES, IRRIGATION LINES, FORCE MAINS, SPRINKLER SYSTEMS, GAS LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.
2. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
3. CONTRACTOR TO ENSURE THAT A MINIMUM 4 FT. DEPTH IS MAINTAINED FOR WATER LINE INSTALLATION.

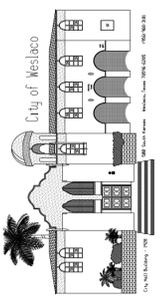
SEAL:



REVISIONS:

C-3
LINE - W-1
PLAN/PROFILE
(1 OF 4)

SCALE: 1"=40'





6TH ST. WATER LINE IMPROVEMENTS WESLACO, TEXAS

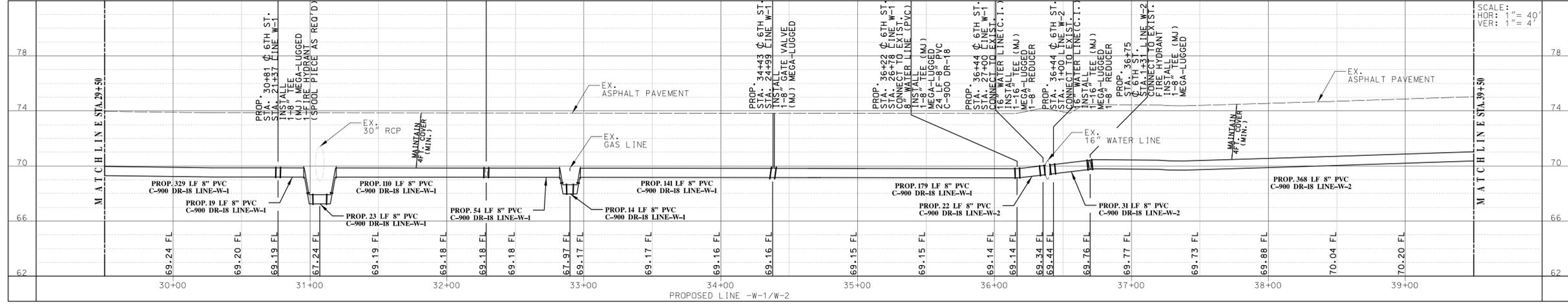
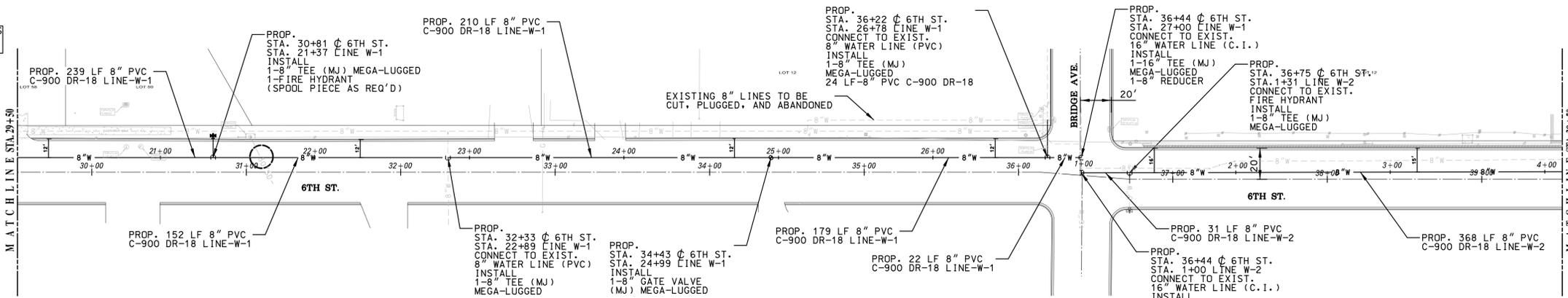


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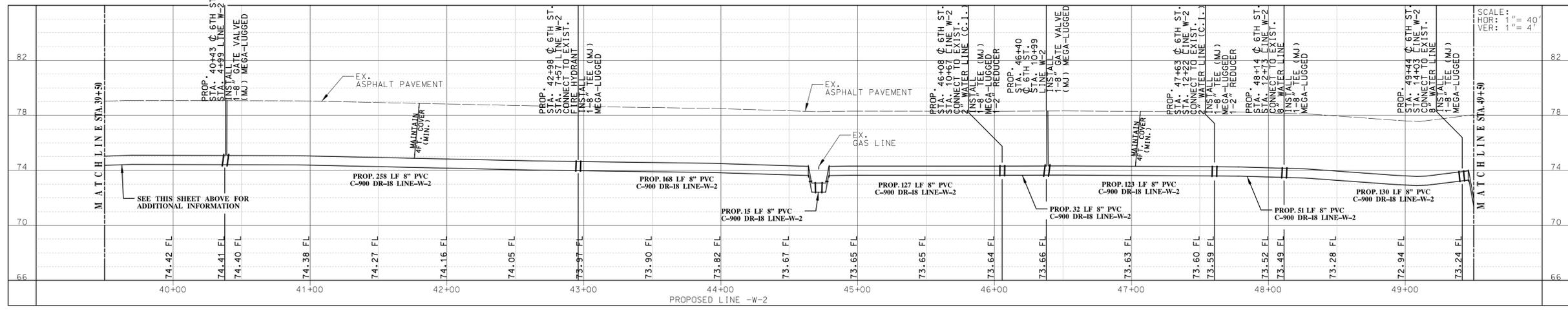
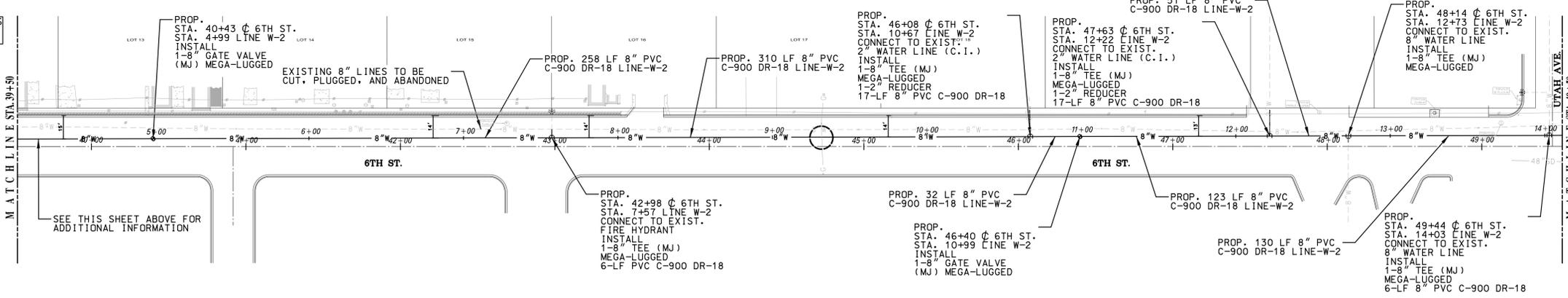
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EX. COMMUNICATIONS BOX
CAUTION UTILITY CROSSING

ALL DIMENSIONS TAKEN FROM FACE OF CURB



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NOTES:

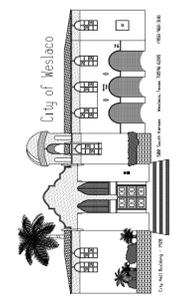
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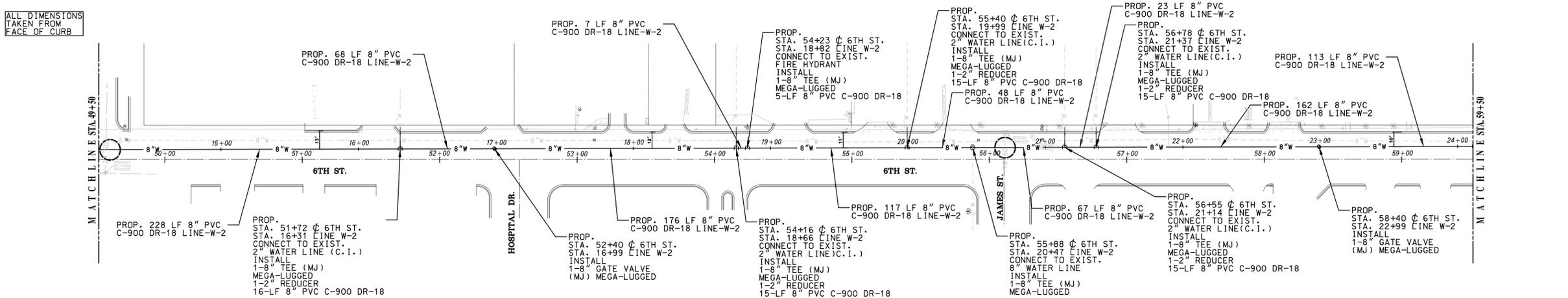


REVISIONS:

C-4 LINE - W-1/W-2 PLAN/PROFILE (2 OF 4) SCALE: 1"=40'

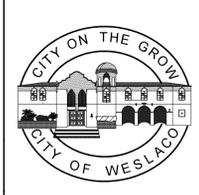


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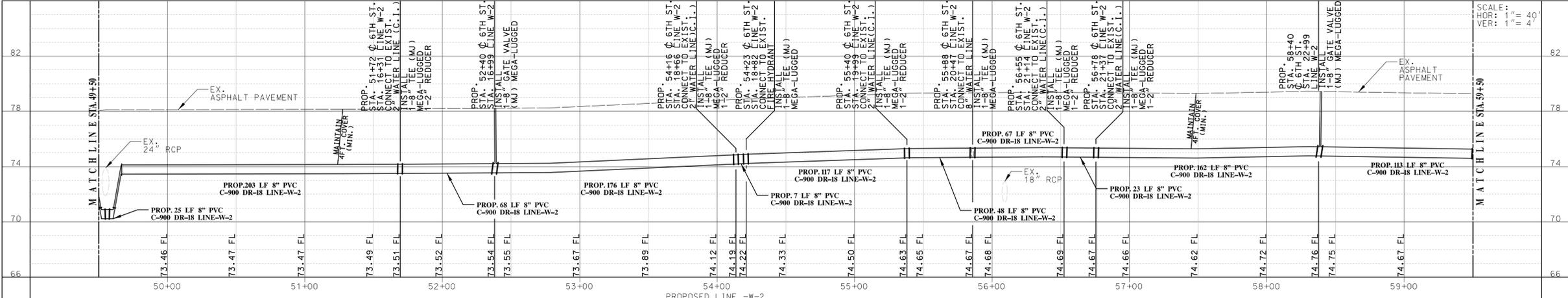


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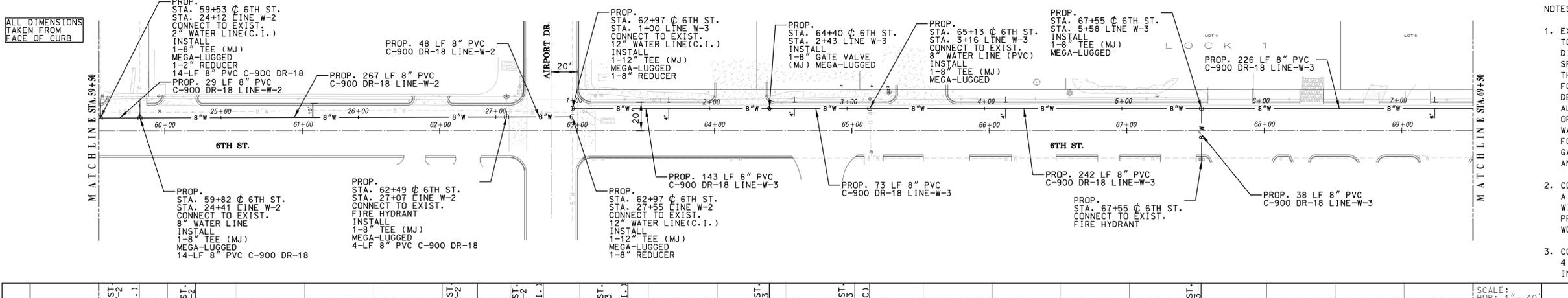
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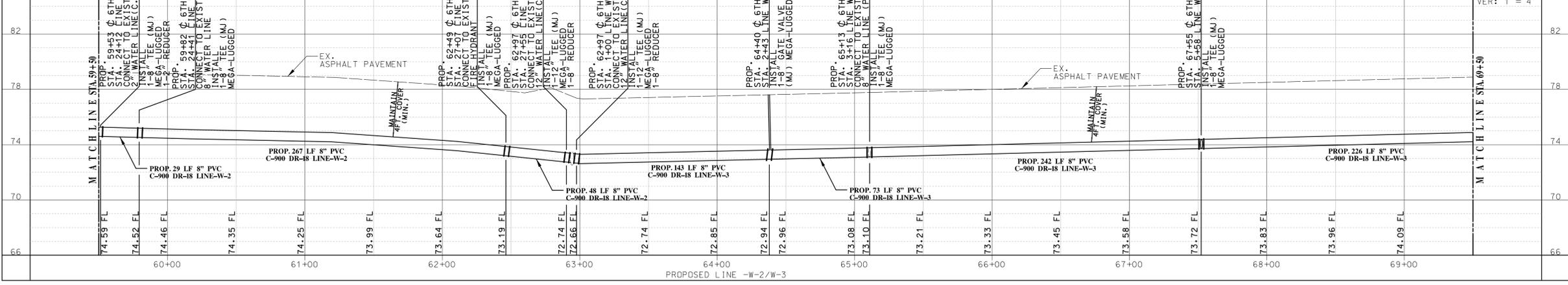
6TH ST.
WATER LINE IMPROVEMENTS
WESLACO, TEXAS



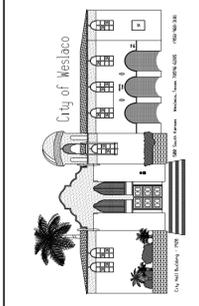
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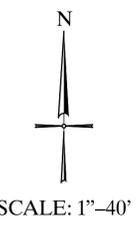
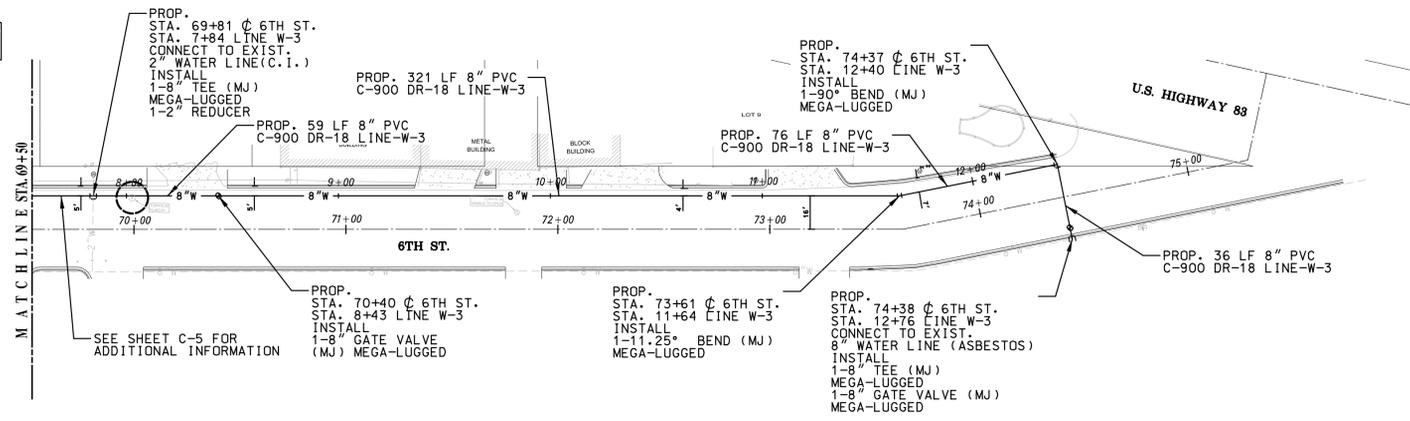
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C-5
LINE - W-2/W-3
PLAN/PROFILE
(3 OF 4)

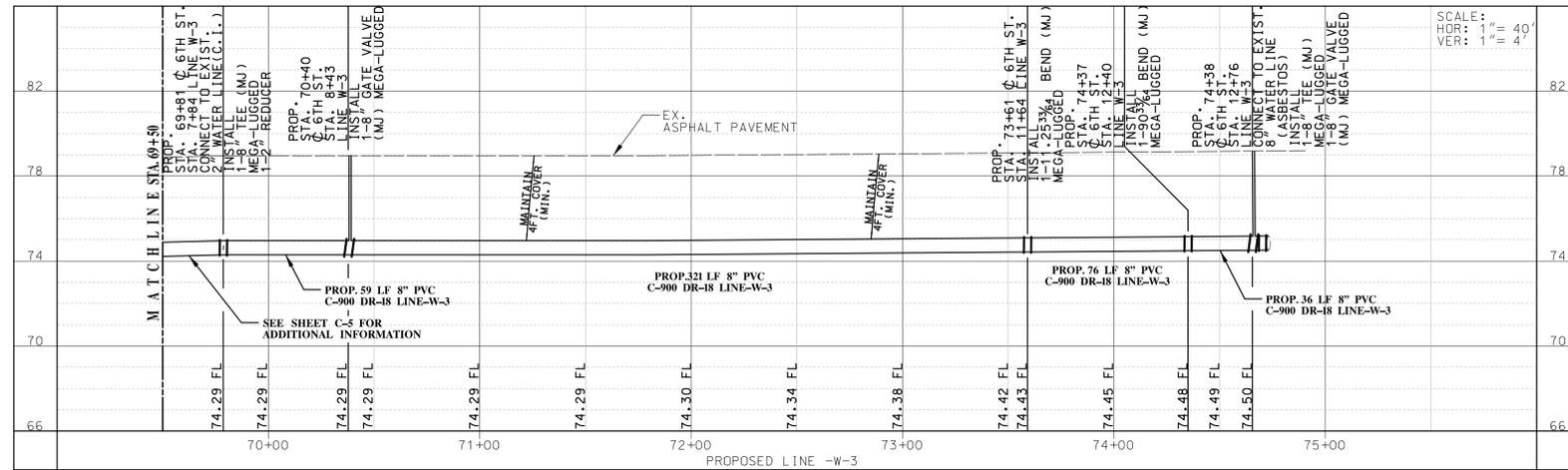


ALL DIMENSIONS TAKEN FROM FACE OF CURB



LEGEND

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- EX. FENCE
- PROP. GATE VALVE
- PROP. FIRE HYDRANT
- PROP. 8" WATER LINE
- PROP. 6" WATER LINE
- EX. TREE
- EX. SEWER MANHOLE
- EX. WATER VALVE
- EX. TELEPHONE MANHOLE
- EX. GAS METER
- EX. STORM INLET
- EX. SIGN
- EX. GUY WIRE
- EX. SPRINKLER VALVE
- EX. ELECTRIC METER
- EX. UTILITY POLES
- EX. COMMUNICATIONS BOX
- CAUTION UTILITY CROSSING



SCALE:
HOR: 1" = 40'
VER: 1" = 4'

NOTES:

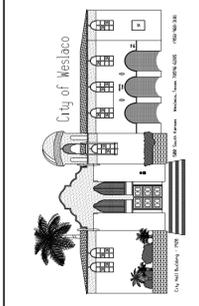
1. EXISTING ABOVE GROUND UTILITIES AND TOPOGRAPHY HAVE BEEN PLOTTED BY DIRECT FIELD INFORMATION, AND AS SPOTTED BY UTILITY LOCATE REQUEST. THE CONTRACTOR WILL BE RESPONSIBLE FOR ESTABLISHING THEIR EXACT LOCATION, DEPTH, AND SIZE. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF ALL CUT OR BROKEN WATER LINES, IRRIGATION LINES, FORCE MAINS, SPRINKLER SYSTEMS, GAS LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.
2. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
3. CONTRACTOR TO ENSURE THAT A MINIMUM 4 FT. DEPTH IS MAINTAINED FOR WATER LINE INSTALLATION.

SEAL:



REVISIONS:

C-6
LINE - W-3
PLAN/PROFILE
(4 OF 4)
SCALE: 1" = 40'





6TH ST.
WATER LINE IMPROVEMENTS
WESLACO, TEXAS

SEAL:



REVISIONS:

C-7
MISCELLANEOUS
DETAILS

