

CITY OF GRAND JUNCTION

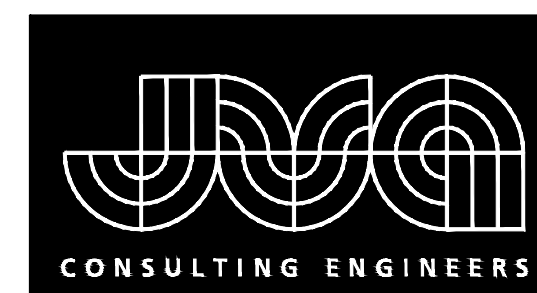
2022 WATERLINE REPLACEMENT - PHASE 1

GRAND JUNCTION, COLORADO

BID DOCUMENTS

CONTACTS

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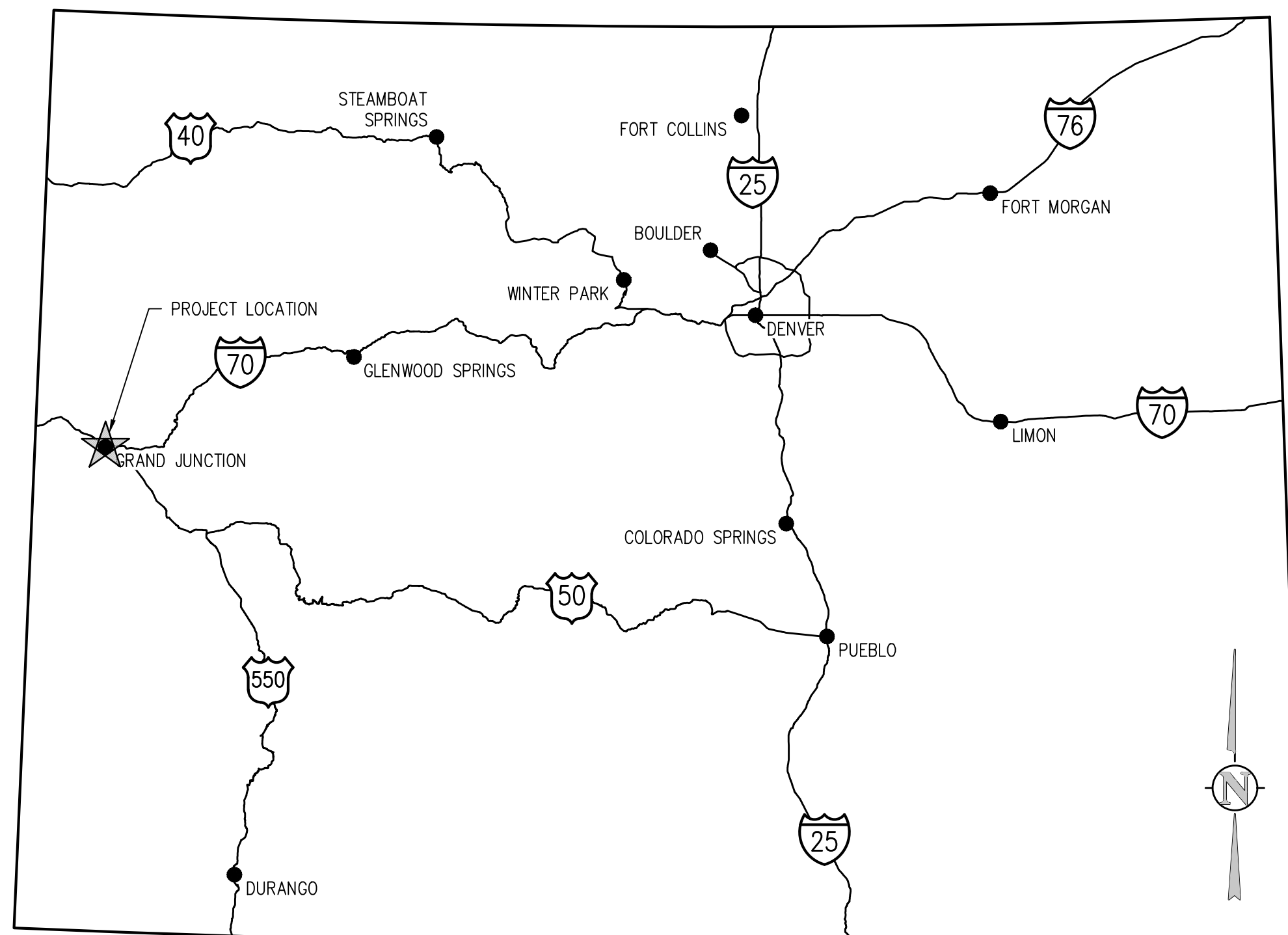
AUGUST 2022

PREPARED UNDER THE SUPERVISION OF

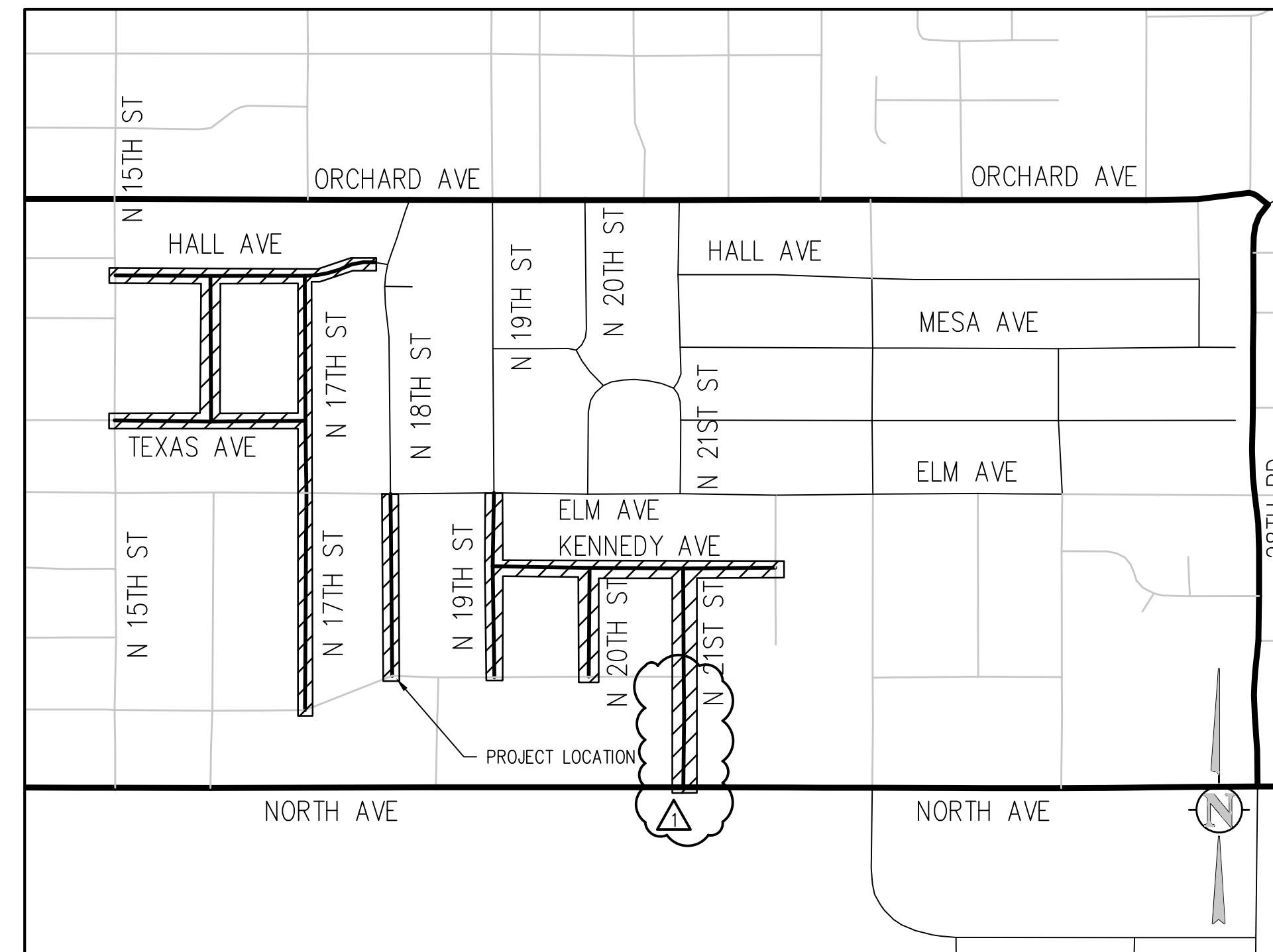
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VICINITY MAP
NTS



PROJECT LOCATION MAP
NTS

ABBREVIATIONS

DESIGN LEGEND

GENERAL NOTES

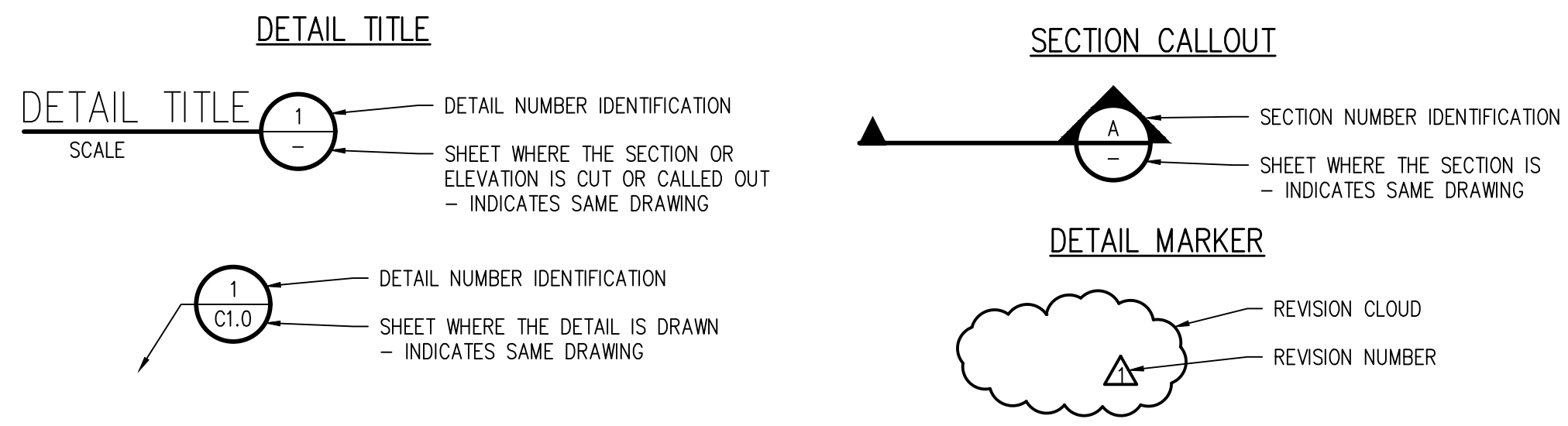
Table of abbreviations including AASHTO, ABANDON, AC, ADDL, ADDM, ADJ, AL, ALT, AMT, APPROX, ARCH, ARV, ASTM, ASPH, ASSY, ASYM, AUTO, AVG, AWWA, BC, BFV, BG, BLDG, BLK, BM, BMP, BS, BOS, BOT, BSMT, BVCE, BVCS, BW, CB, CCW, CDOT, CIP, CJ, CL, CLR, CMP, CMU, CONC, CONST, CONT, COR, CR, CTR, CY, DEMO, DIA, DIAG, DIP, DOM, DN, DR, DWG, DWL, E, EA, ECC, EJ, EL, ELB, ELEC, ENGR, EOP, EQ, EQUIP, ESMT, EST, EVCE, EVCS, EW, EXP JT, EXIST, FND, FES, FF, FGH, FH, FL, FN, FOC, FPM, FPS, FT, FTG, G, GA, GAL, GALV, GCO, GIP, GJWRP, GND, GPD, GPM, GR, GRG, GSG, GSV, H, HB, HE, HDWL, HNDRL, HORZ.

Table of design legend symbols including CONTROL POINT, BORE HOLE, TEE W/ KICK BLOCK, BEND W/ KICK BLOCK, END CAP W/ KICK BLOCK, GATE VALVE, REDUCER/INCREASER, WATER METER, FIRE HYDRANT, EXIST INDEX CONTOUR, EXIST INTERMEDIATE CONTOUR, PROPOSED INDEX CONTOUR, PROPOSED INTERMEDIATE CONTOUR, LIMITS OF SAWCUT, LIMITS OF WORK, EASEMENT LINE, PROPERTY LINE, ADJACENT PROPERTY LINE/ROW, MATCHLINE.

Table of design legend symbols including CURB AND GUTTER, SPILL/CATCH CURB TRANSITION, SIGN W/ POST, CURB RAMP, SIDEWALK CHASE, SIDEWALK, CONCRETE PAVING, GRAVEL, ASPHALT PAVING, CONCRETE, LANDSCAPE AREA.



- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF GRAND JUNCTION, COLORADO DEPARTMENT OF TRANSPORTATION, GRAND JUNCTION FIRE PROTECTION REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY OWNER AND ENGINEER AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS.
4. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS.
5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT.
7. RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS.
8. THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC.
9. FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS.
10. ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.
11. OWNER TO APPROVE ALL PRIVATE CONCRETE FINISHING, JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION.
12. PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC.
13. ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE.
14. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, MILE HIGH FLOOD DISTRICT 'URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3'.
15. ADA COMPLIANCE: THE CROSS-SLOPE OF ALL WALKS MUST BE LESS THAN 1:48 (2.0%) PERPENDICULAR TO DIRECTION OF TRAVEL.
16. PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE.
17. LOCATIONS OF CLEANOUTS, LIGHTS, SIGNAGE, JUNCTION BOXES, AND OTHER SIGNIFICANT SITE FEATURES TO BE STAKED FOR ENGINEER AND OR OWNER APPROVAL PRIOR TO WORK.
18. SURVEY INFORMATION: BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY THE CITY OF GRAND JUNCTION.
18.1 BEARINGS ARE BASED ON GRID NORTH OF THE MESA COUNTY LOCAL COORDINATE SYSTEM IN THE GVA ZONE, LOCALLY DETERMINED BY GNSS OBSERVATIONS ON THE SHOWN INTERIOR ALIQUOT CORNER MONUMENTS RECOVERED IN SECTION 18, TOWNSHIP 1 NORTH AT RANGE 1 EAST FOR ITS CENTER NORTH 1/16TH CORNER AND THE NORTH 1/4 CORNER AS HAVING A MEASURED BEARING OF N 0° 00' 57" E AND A MEASURED DISTANCE OF 1319.22'.
18.2 HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED ON THE REFERENCED SURVEY AND ARE PROVIDED ON SHEET C2.0 OF THE PLANS.
18.3 SURVEY UTILITY LOCATION INFORMATION PER THE SURVEYOR: SUBSURFACE UTILITIES ARE SHOWN IN APPROXIMATE HORIZONTAL AND VERTICAL LOCATIONS CONSISTENT WITH ASCS 38-02 QUALITY LEVEL "B" (INFORMATION OBTAINED BY THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS.
18.4 SERVICE TAP LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND RESTORING ALL SERVICE CONNECTIONS.



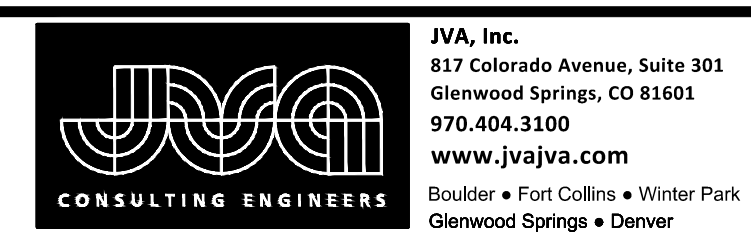
SURVEY LEGEND

Table of survey legend symbols including WATER LINE ABANDONED (SIZE & TYPE), WATER LINE (SIZE & TYPE), OVERHEAD UTILITY LINE, UNDERGROUND GAS LINE, UNDERGROUND TELEPHONE LINE, STORM SEWER LINE (SIZE & TYPE), SANITARY SEWER LINE (SIZE & TYPE), RIGHT-OF-WAY LINE, LOT LINES, FENCE LINE, EDGE OF PAVEMENT, BACK OF CURB, FL OF CURB, BACK OF SIDEWALK, CONTROL LINES, BENCH MARK, BACKFLOW PREVENTER, CATCH BASIN / CURB STORM INLET, CLEAN OUT (SANITARY), CURB STOP, FIRE HYDRANT, GUY WIRE ANCHOR, MAILBOX, MANHOLE (ELECTRIC), MANHOLE (GAS), MANHOLE (SANITARY), MANHOLE (STORM), MANHOLE (TELEPHONE), MANHOLE (TV), MANHOLE (WATER), METER (GAS), METER (WATER), PEDESTAL (TELEPHONE), PEDESTAL (TV), PROPERTY PIN, STREET LIGHT, SURVEY MONUMENT (CITY), SURVEY MONUMENT (CONTROL POINT), SURVEY MONUMENT (TYPE NOTED), TREE (DIA. SIZE), UTILITY POLE, VALVE (GAS), VALVE (IRRIGATION), VALVE (SPRINKLER HEAD), VALVE (WATER).

DESCRIPTION DATE

Table with columns for REVISION, DESCRIPTION, DATE, DRAWN BY, DESIGNED BY, CHECKED BY, APPROVED BY.

SCALES: PLAN & PROFILE



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 NOTES, LEGENDS, AND ABBREVIATIONS GO.1

AK: 107115a | Drawings | Phase 1 - 00-CWR-UNA.dwg | 9/29/2022 - 5:35 PM | ZCF

STORMWATER MANAGEMENT PLAN (SWMP)

THIS STORMWATER MANAGEMENT PLAN IS TO BE RETAINED AND MAINTAINED ONSITE INCLUDING FINAL LANDSCAPING PLANS AND ANY OTHER EROSION CONTROL DOCUMENTATION. A SWMP ADMINISTRATOR WILL BE DESIGNATED BY THE CONTRACTOR AND IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THIS SWMP. THE SWMP ADMINISTRATOR IS THE CONTACT FOR ALL SWMP-RELATED ISSUES AND IS RESPONSIBLE FOR ITS ACCURACY, COMPLETENESS, AND IMPLEMENTATION. THE FOLLOWING HAS BEEN DESIGNATED AS THE SWMP ADMINISTRATOR FOR THIS PROJECT:

NAME: _____
 CONTACT INFO: _____

THE SITE IS LOCATED CONTAINED BY ORCHARD AVE AND BUNTING AVE ON THE NORTH AND SOUTH RESPECTIVELY AND BY N 15TH ST AND N 22ND ST ON THE WEST AND EAST RESPECTIVELY, AND AT APPROXIMATELY 39° 4' 51.5" N LATITUDE, 108° 32' 43.4" W LONGITUDE. THE PROPOSED PROJECT CONSISTS OF UTILITY INFRASTRUCTURE, UTILITY SERVICE CONNECTIONS, PAVING OF SIDEWALKS AND ROADWAYS, CONSTRUCTION IN THE CITY OF GRAND JUNCTION, COLORADO. THE TOTAL SITE AREA IS APPROXIMATELY 8.5 ACRES WITH AT TOTAL DISTURBANCE OF 1.1 ACRES. NO AREAS GREATER THAN 40 ACRES SHALL BE DISTURBED AT ANY GIVEN TIME. NO CONSTRUCTION ACTIVITIES SHALL OCCUR OFFSITE OR OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE CONSTRUCTION DOCUMENTS. THE SEQUENCE OF CONSTRUCTION STARTS IS AS FOLLOWS:

PHASE	ESTIMATED	ACTUAL
CONSTRUCTION START	AUGUST, 2022	_____
UTILITY CONSTRUCTION	AUGUST, 2022	_____
PAVING	OCTOBER, 2022	_____
SITE RESTORATION	DECEMBER, 2022	_____

THE EXISTING SITE CONSISTS OF DEVELOPED LAND AND VEGETATION AND IS APPROXIMATELY 1% COVERED WITH VEGETATIVE GROUND COVER. A DRAINAGE REPORT WAS NOT COMPLETED AS HISTORIC AND DEVELOPED RUNOFFS WERE NOT ALTERED.

OFFSITE RUNOFF FLOWS ONTO THE PROPERTY FROM 15TH ST FROM THE WEST AND ELM STREET FROM THE NORTH. ONSITE FLOWS ARE DIRECTED TO THE GUTTERS AND STORM DRAINS. THERE ARE NO ONSITE DETENTION SITES. STORMWATER IS DISCHARGED FROM THIS SITE TO INDIAN WASH WHICH ULTIMATELY DRAINS INTO THE COLORADO RIVER. A DRAINAGE REPORT FOR THIS DEVELOPMENT HAS BEEN SUBMITTED TO THE ENGINEER OF THE CITY OF GRAND JUNCTION.

OTHER POTENTIAL POLLUTION SOURCES SUCH AS VEHICLE FUELING, VEHICLE WASHING, LOADING/ UNLOADING AREAS ARE LOCATED ONSITE. NON-STORMWATER COMPONENTS OF THE DISCHARGE LANDSCAPE IRRIGATION RETURN FLOW ARE LOCATED ONSITE.

BEST MANAGEMENT PRACTICES FOR STORMWATER MANAGEMENT

NON STRUCTURAL BMPs WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE. THE UTILIZATION OF NON STRUCTURAL BMPs WILL BE AN ONGOING PROCESS DIRECTED AT PREVENTING EROSION. THE NON STRUCTURAL BMPs WILL RECEIVE CONTINUOUS EMPHASIS THROUGHOUT CONSTRUCTION BECAUSE THEY AVERT PROBLEMS BEFORE THEY OCCUR AND REDUCE THE NEED FOR STRUCTURAL BMPs. NON STRUCTURAL BMPs WILL CONSIST PRIMARILY OF PRESERVATION OF EXISTING MATURE VEGETATION AND TREES, PLANNING AND SCHEDULING CONSTRUCTION ACTIVITIES AIMED AT ACHIEVING THE GOAL OF MINIMIZING EROSION. FURTHERMORE, CONSTRUCTION PERSONNEL WILL BE INSTRUCTED AND SUPERVISED IN CONSTRUCTION METHODS CONSISTENT WITH EROSION PREVENTION PRACTICES.

PLANNED STRUCTURAL BMPs FOR EROSION AND SEDIMENT CONTROL ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. IMPLEMENTING THESE MEASURES SHOULD MINIMIZE NUISANCE SILT AND SEDIMENTATION EXITING THE SITE AND PREVENT CLOGGING EXISTING STORM SEWERS AND STREET GUTTERS.

APPLICATION OF THESE BMPs FOR STORMWATER MANAGEMENT ARE FOR CONSTRUCTION PERIODS AND ARE CONSIDERED TEMPORARY. POST-DEVELOPMENT STORMWATER MANAGEMENT IS PROVIDED THROUGH STORM COLLECTION SYSTEM.

VEHICLE TRACKING CONTROL (VTC):

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT ALL ENTRANCES AND EXITS TO THE CONSTRUCTION SITES. THE CONSTRUCTION ACCESS AND PARKING WILL BE GRADED AND COVERED WITH A CRUSHED STONE BASE COURSE DURING CONSTRUCTION. THE VEHICLE TRACKING CONTROL WILL BE RELOCATED WITH THE CONSTRUCTION ACCESS AS NECESSARY.

SEDIMENT CONTROL LOGS (SCL):

SEDIMENT CONTROL LOGS SHALL BE INSTALLED WITH RESPECT TO PROPOSED DRAINAGE PATTERNS. SEDIMENT CONTROL LOGS SHALL BE CONSTRUCTED IN THE GUTTERS AND ALONG ANY DRAINAGE AREAS SUBJECT TO EROSION. THE SEDIMENT CONTROL LOGS SHALL BE INSTALLED AT THE DOWNHILL SIDE OF THE EXISTING SLOPES ACROSS THE SITE AND AT ALL POINT DISCHARGE AREAS WHETHER SHOWN OR NOT, SEDIMENT CONTROL LOGS SHALL BE MAINTAINED AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS. SEDIMENT CONTROL LOGS WILL REMAIN UNTIL THE STORM SEWER STRUCTURES ARE COMPLETED AND GROUND COVER IS EFFECTIVE.

INLET PROTECTION (IP):

THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. EACH INLET ON THE PROPOSED STORM SEWER SYSTEM WILL HAVE A TEMPORARY INLET SEDIMENT TRAP CONSTRUCTED AROUND IT. IN PAVED AREAS, THIS TRAP CONSISTS OF WIRE MESH SOCKS, CONCRETE BLOCKS, AND GRAVEL BAGS TO FILTER THE STORM RUNOFF AND ALLOW ANY SILT TO SETTLE OUT.

CONCRETE WASHOUT AREA:

CONCRETE WASHOUTS SHALL BE USED ON SITE DURING THE CONSTRUCTION OF FLATWORK SHOWN ON THE PLANS. CONTRACTOR TO USE ONLY ROLL-OFF/PORTABLE STYLE WASHOUT CONTAINERS, PIT STYLE CLEANOUTS WILL NOT BE ACCEPTED ON THIS SITE.

DUST CONTROL MEASURES:

DISTURBED AREAS NOT YET READY TO BE SEEDED, LANDSCAPED, PAVED, OR OTHERWISE STABILIZED SHALL BE WATERED, OR RIPPED AS NECESSARY TO PRECLUDE VISIBLE DUST EMISSIONS.

ITEMS ARE SCHEDULED TO BE IMPLEMENTED ACCORDING TO THE CONSTRUCTION SCHEDULE. AS WORK PROCEEDS, IMPLEMENTATION OF INDIVIDUAL BMPs IS TO COINCIDE WITH THE CONSTRUCTION THEREBY MINIMIZING THE EXPOSURE OF UNPROTECTED AREAS. INLET PROTECTION (FOR EXISTING INLETS), AND GRAVELING OF THE CONSTRUCTION ENTRANCE WILL BE PERFORMED WHEN THE GROUND IS DISTURBED AND THE PROJECT EXCAVATION BEGINS. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH AT THE TIME OF GRADING. THE GRAVELING IS TO BE MAINTAINED AND EXTENDED CONSTRUCTION PROGRESSES ESPECIALLY AROUND THE BUILDING SITE. THE STRUCTURAL BMPs ARE TO BE REMOVED, AS THE PERMANENT LANDSCAPING INSTALLATIONS ARE COMPLETED.

THE EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED BY THE DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, OWNER'S ENGINEER, CITY OF GRAND JUNCTION OR ITS AUTHORIZED REPRESENTATIVE AS FIELD CONDITIONS WARRANT.

STORMWATER DETENTION AND WATER QUALITY:

STORMWATER DETENTION AND WATER QUALITY IS ACHIEVED THROUGH THE EXISTING STORMWATER COLLECTION SYSTEM.

TEMPORARY SEEDING AND MULCHING:

ALL SEEDS FURNISHED SHALL BE FREE FROM NOXIOUS SEEDS SUCH AS RUSSIAN OR CANADIAN THISTLE, COURSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAPWEED, AND LEAFY SPURGE. THE FORMULA USED FOR DETERMINING THE QUALITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS). SEEDING RECOMMENDATIONS ARE PROVIDED BELOW, BUT MAY BE MODIFIED WITH THE OWNER'S APPROVAL TO MAKE THE BEST USE OF EXISTING CLEARINGS AND GRUBBINGS:

SPECIES	COMMON NAME	VARIETY	PLS RATE(%) / ACRE
AGROPYRON CRISTATUM	CRESTED WHEATGRASS	EPHRAIM	6
AGROPYRON SMITHI	WESTERN WHEATGRASS	ARRIBA	16
BROMIS INERMIS	SMOOTH BROME	LINCOLN	12
SPOROBOLUS AIROIDES	ALKALI SACATON		0.5
PLEURAPHIS JAMESII	VIVA GALLETIA GRASS		12
DACTYLIS GLOMERATA	ORCHARD GRASS	PAUTE	4
ARRHENATHERUM ELATES	TALL OATGRASS	ADD IN	
LILIUM PERENNE	PERENNIAL RYEGRASS	TETRAPLOID	8

ALL SEEDS SHALL BE DRILLED NOT HYDROSEEDED. ALL DISTURBED AREAS SHALL BE SEEDED AND CRIMP MULCHED IF PERMANENT VEGETATION IS NOT IMMEDIATELY INSTALLED. AFTER SEEDING HAS BEEN COMPLETED, A RATE OF 4,000 LBS. OF STRAW PER ACRE SHALL BE APPLIED UNIFORMLY, CRIMPED IN WITH A CRIMPER OR OTHER APPROVED EQUIPMENT OR OTHERWISE ATTACHED. A TACKIFIER OR JUTE NETTING TO ATTACH MULCH MAY BE USED WITH THE OWNER'S APPROVAL. THE SEEDED AREA SHALL BE CRIMPED MULCHED AND THE MULCH ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING. AREAS NOT MULCHED AND ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING MUST BE RESEDED WITH THE SPECIFIED MIX AT THE CONTRACTOR'S EXPENSE, PRIOR TO MULCHING AND ATTACHING. ON STEEP SLOPES OR OTHER SPECIFIED AREAS AS SHOWN ON THE PLANTING PLAN, WHICH ARE DIFFICULT TO MULCH AND ATTACH BY CONVENTIONAL METHOD, BURLAP OR OTHER BLANKETING MATERIALS PROPERLY ANCHORED AND SECURED MAY BE USED WHEN APPROVED BY THE CITY OF GRAND JUNCTION.

PERMANENT STABILIZATION MEASURES:

PERMANENT LANDSCAPING WILL INCLUDE SEEDING TO OPEN AREAS. NATIVE PERENNIAL SEEDING WILL BE ESTABLISHED IN NON-IRRIGATED AREAS AND SOD OR OTHER VEGETATIVE COVER WILL BE ESTABLISHED IN IRRIGATED OPEN AREAS. ALL PERMANENT STABILIZATION MEASURES WILL BE SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER.

MATERIALS AND SPILL PREVENTION:

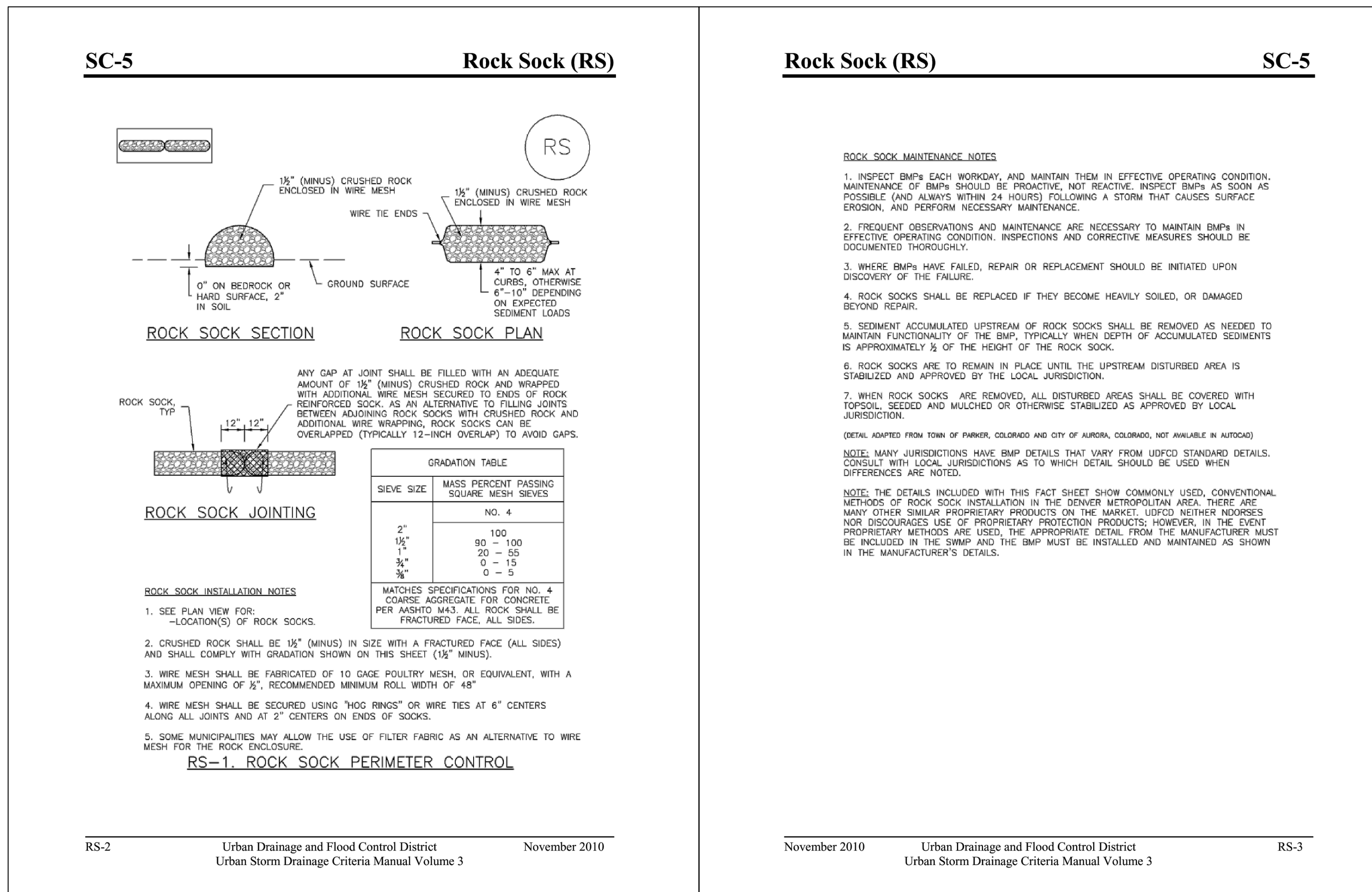
THE CONTRACTOR WILL STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN CONFINED AREAS ON SITE FROM WHICH RUNOFF WILL BE CONTAINED AND FILTERED. MATERIALS WILL BE STORED OFF THE GROUND AND PROTECTED FROM THE WEATHER BY A COVER OR STORED IN A CONTAINER SUCH AS A VAN OR TRAILER. AN EARTHEN DIKE WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE FUEL STORAGE AREA TO PREVENT MATERIALS FROM CONTACT WITH SURFACE RUNOFF. EQUIPMENT MAINTENANCE WILL BE PERFORMED IN A DESIGNATED AREA AND STANDARD MAINTENANCE PROCEDURES, SUCH AS THE USE OF DRIP PANS, WILL BE USED TO CONTAIN PETROLEUM PRODUCTS.

INSPECTION AND MAINTENANCE:

THE EROSION CONTROL MEASURES WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE CONTRACTOR AND AFTER EACH RAIN EVENT. ALL INSPECTIONS SHALL BE DOCUMENTED AND SHALL INCLUDE THE DATE OF INSPECTION, ANY INCIDENCE OF NON-COMPLIANCE, SIGNED CERTIFICATION THAT THE SITE IS IN COMPLIANCE, AND ANY NOTES, DRAWINGS, MAPS, ETC. PERTAINING TO REPAIRS. COPIES OF ALL DOCUMENTATION SHALL BE DISTRIBUTED TO MUNICIPALITIES AND OWNER ON A REGULAR BASIS AS SPECIFIED BY OWNER. STRAW BALE BARRIERS WILL BE CHECKED FOR UNDERMINING AND BYPASS AND REPAIRED OR EXPANDED AS NEEDED. SEDIMENT SHOULD BE REMOVED FROM INLET FILTERS BEFORE ONE HALF OF THE DESIGN DEPTH HAS BEEN FILLED. SEDIMENTS DEPOSITED IN THE PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY. THE TEMPORARY VEGETATION OF BARE SOILS WILL BE CHECKED REGULARLY AND AREAS WHERE IT IS LOST OR DAMAGED WILL BE RESEDED. AT MINIMUM THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMPs EVERY 14 DAYS AND AFTER SIGNIFICANT PRECIPITATION OR SNOWMELT EVENTS. INSTALLATIONS AND MODIFICATIONS AS REQUIRED BY THE CITY OF GRAND JUNCTION WILL BE IMPLEMENTED WITHIN 48 HOURS OF NOTIFICATION. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.

FINAL STABILIZATION AND LONG-TERM STORMWATER QUALITY:

FINAL STABILIZATION IS REACHED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OR PRE-DISTURBANCE LEVELS OR EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED. FINAL STABILIZATION WILL BE ACHIEVED USING SOD, NATIVE SEEDING, PERMANENT BMP'S, AND OTHER METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STABILIZATION REGARDLESS OF ACCEPTANCE BY OWNER OF THE CONTRACTOR ITEM.



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REVISION	DESCRIPTION	DATE
REVISION A	_____	_____
REVISION B	_____	_____
REVISION C	_____	_____
REVISION D	_____	_____

DRAWN BY	ZCF	DATE	07 18, 2022
DESIGNED BY	LAL/ZCF	DATE	07 18, 2022
CHECKED BY	JJM	DATE	07 18, 2022
APPROVED BY	_____	DATE	_____

SCALES:
 PLAN & PROFILE

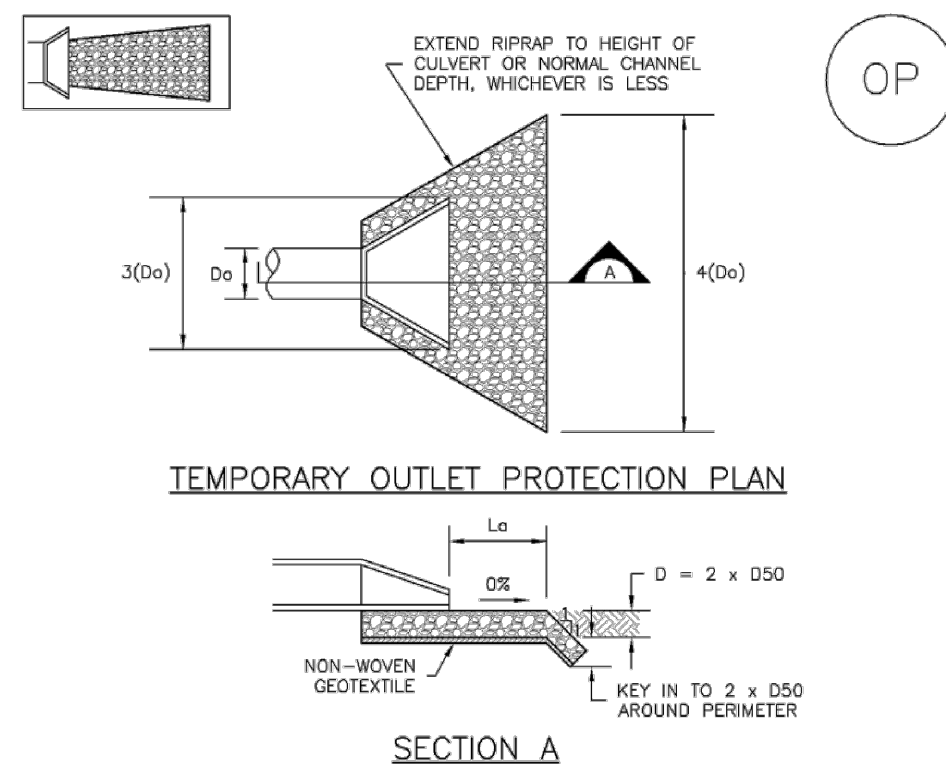


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2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 EROSION CONTROL NOTES

CE1.0

EC-8 Temporary Outlet Protection (TOP)



TEMPORARY OUTLET PROTECTION PLAN

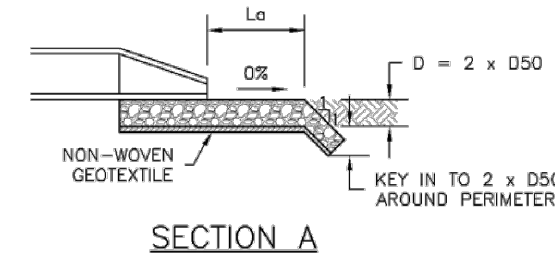


TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE

PIPE DIAMETER, D _o (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, L _a (FT)	RIPRAP D ₅₀ DIAMETER MIN (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	15	6
	10	10	6
	20	16	9
	30	23	12
	40	26	16
24	30	16	9
	40	26	9
	50	26	12
	60	30	16

OP-1. TEMPORARY OUTLET PROTECTION

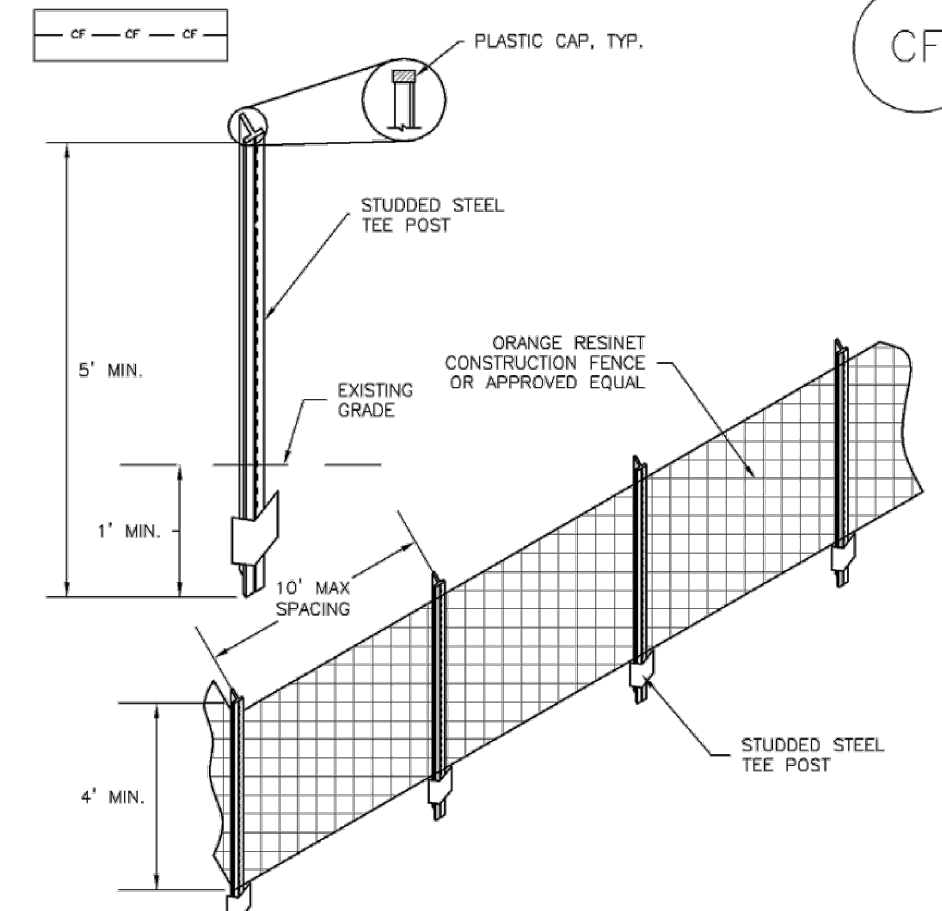
TOP-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Temporary Outlet Protection (TOP) EC-8

- TEMPORARY OUTLET PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF OUTLET PROTECTION.
 - DIMENSIONS OF OUTLET PROTECTION.
 - DETAIL IS INTENDED FOR PIPES WITH SLOPE \leq 10%. ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
 - TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.
- TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 TOP-3

SM-3 Construction Fence (CF)



CF-1. PLASTIC MESH CONSTRUCTION FENCE

- CONSTRUCTION FENCE INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION FENCE.
 - CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.
 - STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.
 - CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

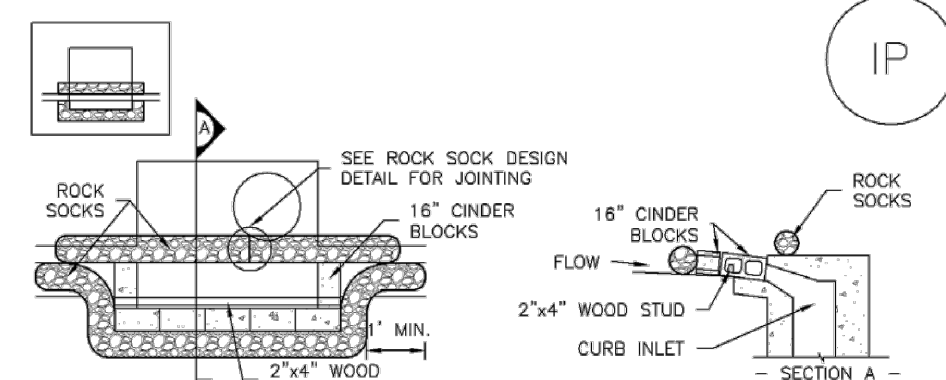
CF-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Construction Fence (CF) SM-3

- CONSTRUCTION FENCE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
 - WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDING AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

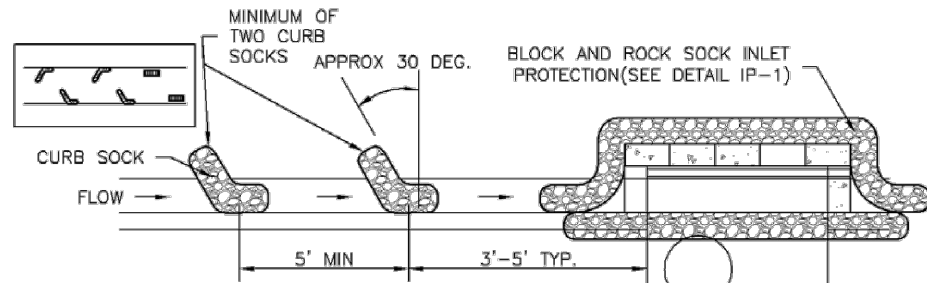
November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 CF-3

SC-6 Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

- BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES**
- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
 - CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
 - GRAVEL BASS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

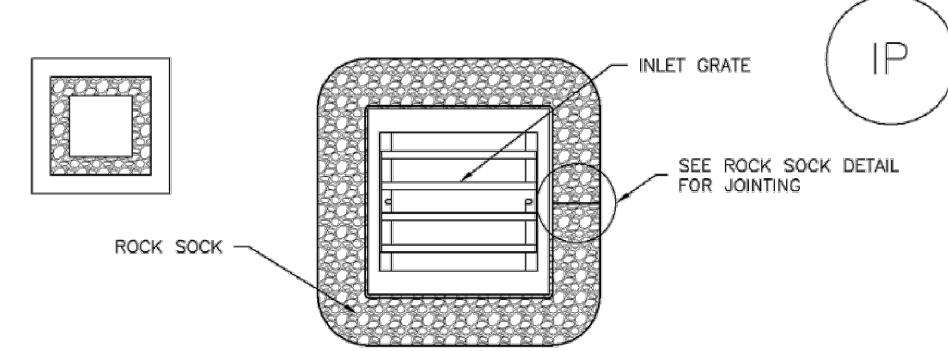


IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

- CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES**
- SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
 - PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
 - SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
 - AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

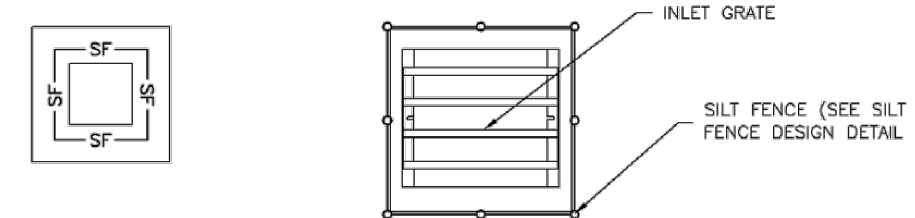
IP-4 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 August 2013

Inlet Protection (IP) SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

- ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES**
- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
 - STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



IP-4. SILT FENCE FOR SUMP INLET PROTECTION

- SILT FENCE INLET PROTECTION INSTALLATION NOTES**
- SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
 - POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
 - STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

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Urban Storm Drainage Criteria Manual Volume 3 IP-5

SC-6 Inlet Protection (IP)

- GENERAL INLET PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP-1, IP-2, IP-3, IP-4, IP-5, IP-6)
 - INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
 - MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- INLET PROTECTION MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
 - INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
 - WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDING AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION. HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.
- NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

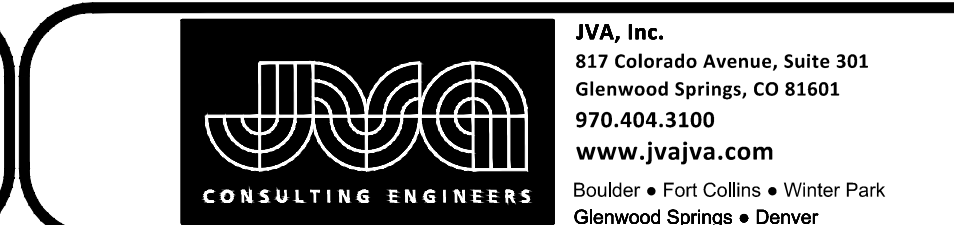
IP-8 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 August 2013

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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION			ZCF	07_18_2022
REVISION			LAL/ZCF	07_18_2022
REVISION			JJM	07_18_2022
REVISION				

SCALES:

PLAN & PROFILE

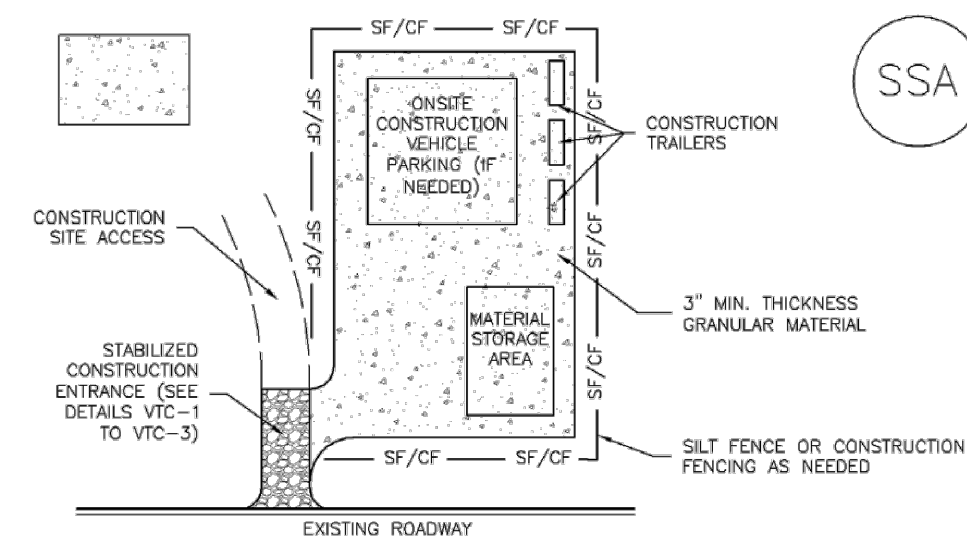


2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 EROSION CONTROL NOTES

CE1.1

Stabilized Staging Area (SSA)

SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING AS NEEDED.

STABILIZED STAGING AREA MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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SM-6

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

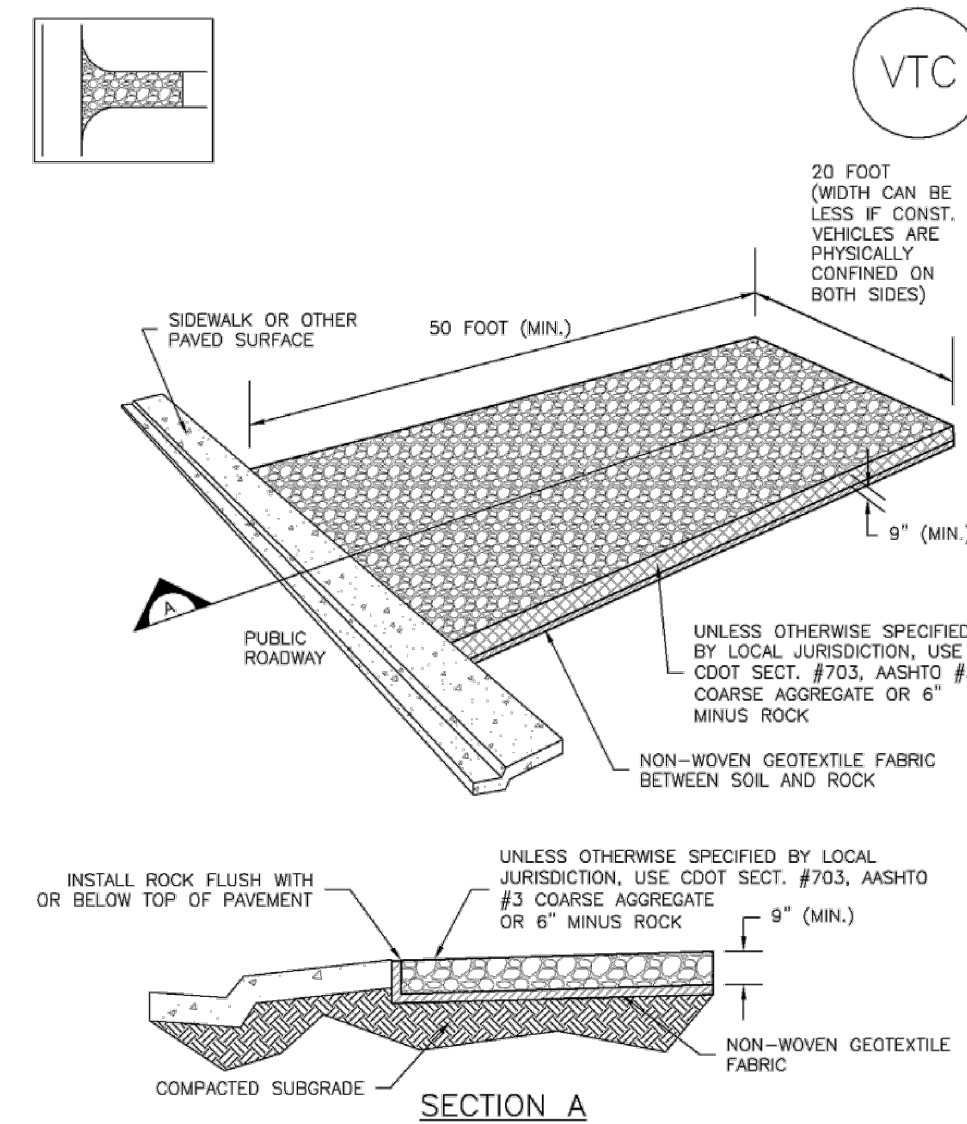
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

Vehicle Tracking Control (VTC)

SM-4

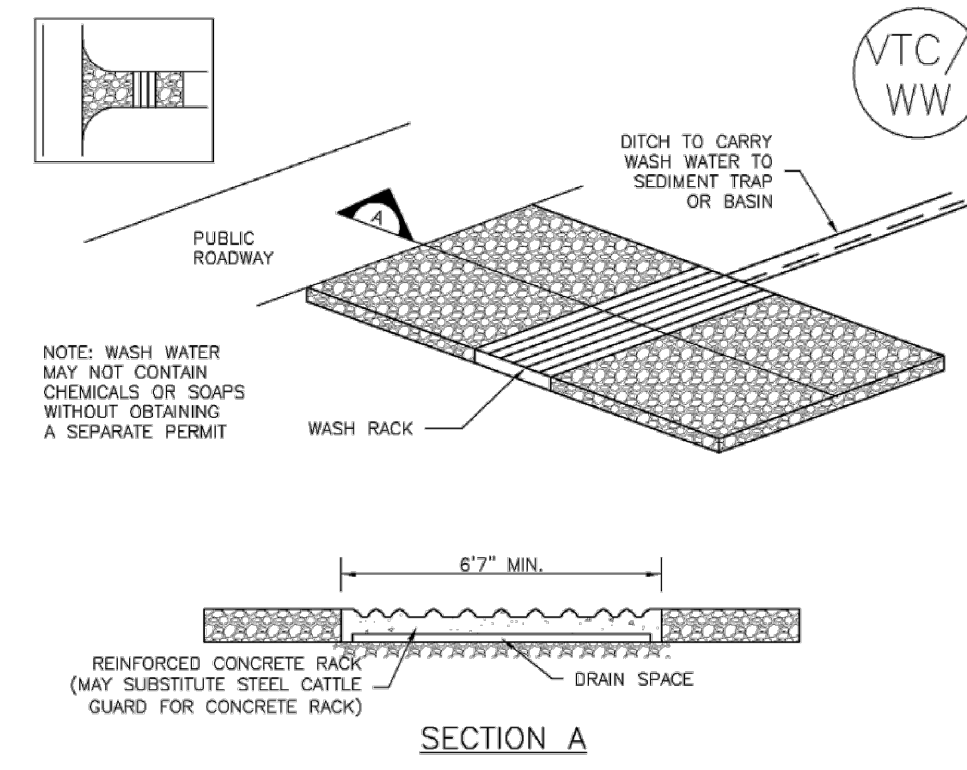


VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District VTC-3
Urban Storm Drainage Criteria Manual Volume 3

SM-4

Vehicle Tracking Control (VTC)

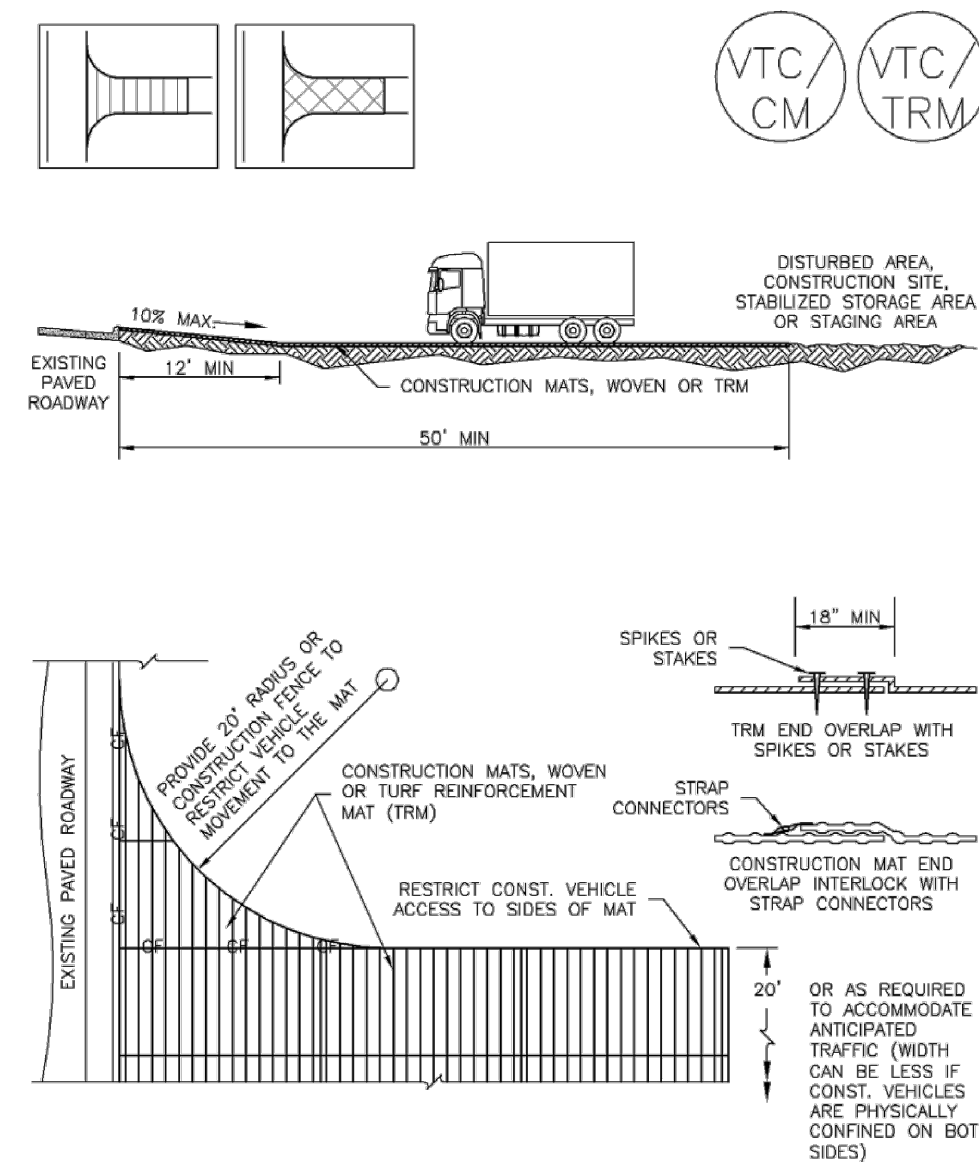


VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

Vehicle Tracking Control (VTC)

SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

November 2010 Urban Drainage and Flood Control District VTC-5
Urban Storm Drainage Criteria Manual Volume 3

SM-4

Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

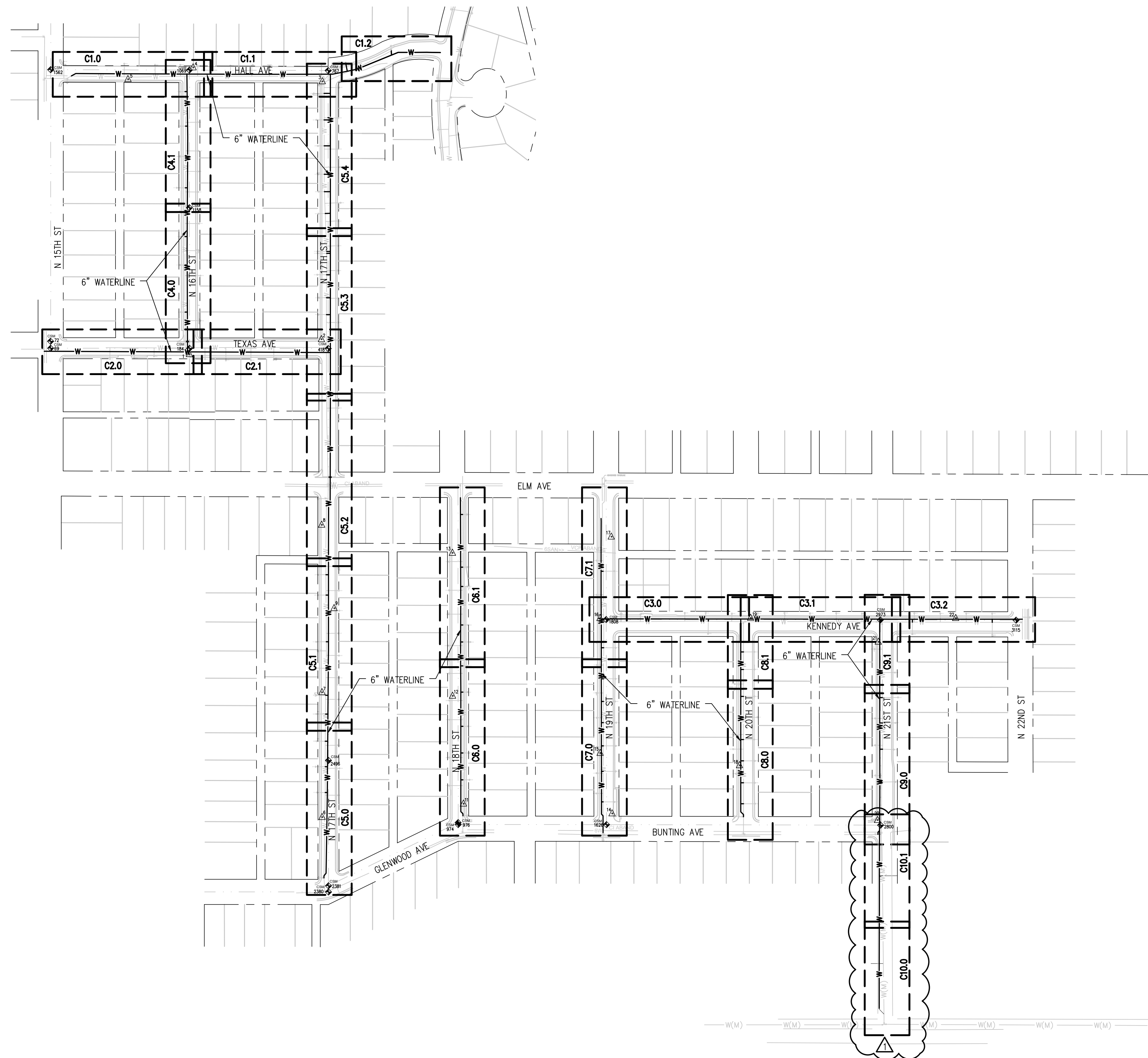
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1			ZCF	07_18_2022
2			LAL/ZCF	07_18_2022
3			JJM	07_18_2022
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SCALES:
PLAN & PROFILE



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 EROSION CONTROL NOTES

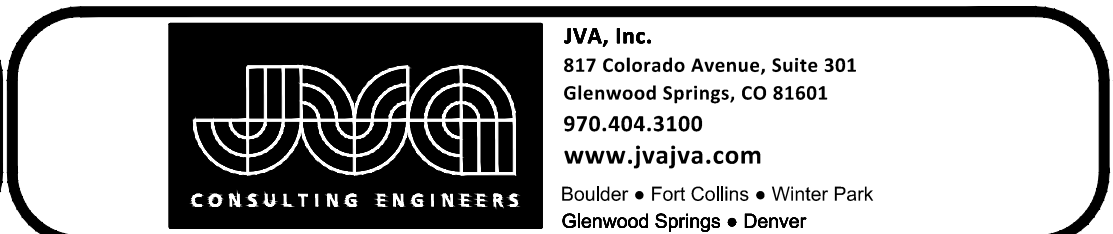


CONTROL POINT TABLE				
CONTROL POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CP/16TH	41086.21	96354.86	4634.00
2	CP/17TH	41122.02	96669.27	4635.94
3	CP/17TH	41736.43	96671.37	4639.00
4	CP/16TH	41769.52	96363.59	4638.46
5	CP/ALLEY	41741.67	96208.48	4638.35
6	CP/CHURCH	39983.25	96670.86	4626.72
7	CP/1353	40280.74	96670.61	4629.78
8	CP/S ELM	40679.82	96669.92	4631.65
9	CP/1400	40481.04	96699.47	4630.34
11	CP/18TH&BUNTING	40015.26	97007.59	4625.86
12	CP/1343 18TH	40272.37	96981.69	4626.96
13	CP/1421 18TH	40612.94	96981.33	4628.54
14	CP/19TH&BUNTING	39992.11	97361.61	4623.41
15	CP/1323 19TH	40136.04	97333.17	4624.55
16	CP/19TH&KENNEDY	40457.54	97332.80	4626.76
17	CP/19TH&ELM	40651.49	97359.69	4628.43
18	CP/1313 20TH	40106.92	97665.17	4623.25
19	CP/20TH&KENNEDY	40458.05	97691.67	4625.30
20	CP/21ST&BUNTING	39976.42	97993.81	4621.06
21	CP/21ST&KENNEDY	40401.02	97995.68	4623.62
22	CP/2150 KENNEDY	40457.65	98180.15	4623.07
69	CSM	41100.83	96023.92	4634.23
72	CSM	41117.32	96023.83	4634.36
184	CSM	41100.45	96354.70	4633.88
418	CSM	41099.97	96684.94	4635.99
767	CSM	41762.35	96685.10	4640.14
974	CSM	39965.78	96994.72	4626.08
976	CSM	39970.26	96994.54	4626.07
1069	CSM	41763.41	96354.42	4638.87
1158	CSM	41435.61	96354.58	4636.62
1562	CSM	41764.48	96024.02	4639.11
1626	CSM	39965.65	97347.98	4623.66
1808	CSM	40454.24	97347.33	4627.11
2380	CSM	39805.17	96685.85	4626.00
2381	CSM	39819.85	96685.82	4626.12
2496	CSM	40118.66	96685.71	4628.53
2800	CSM	39964.32	98000.77	4621.35
2973	CSM	40453.33	98000.37	4624.17
3115	CSM	40452.80	98323.46	4622.33

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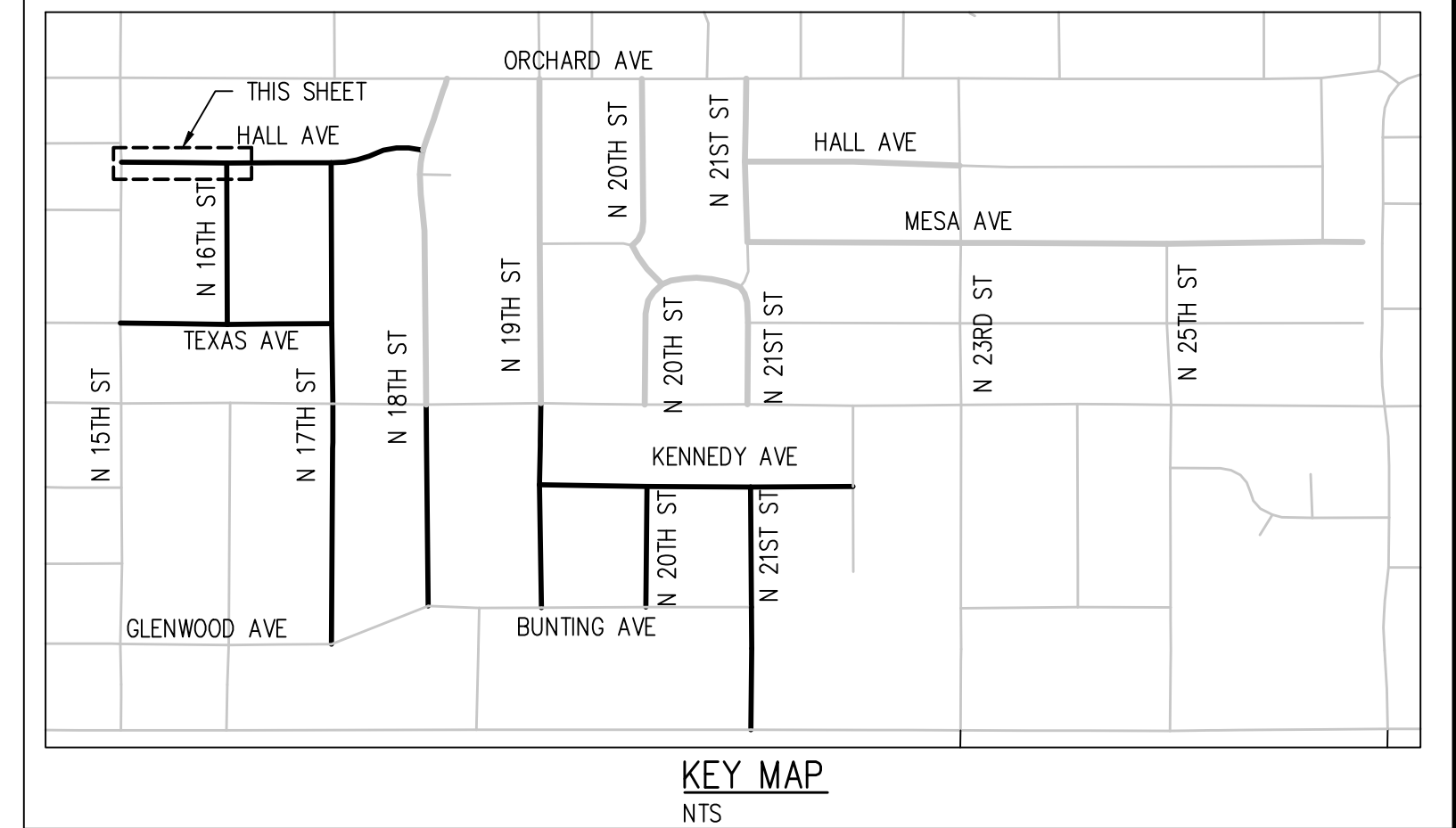
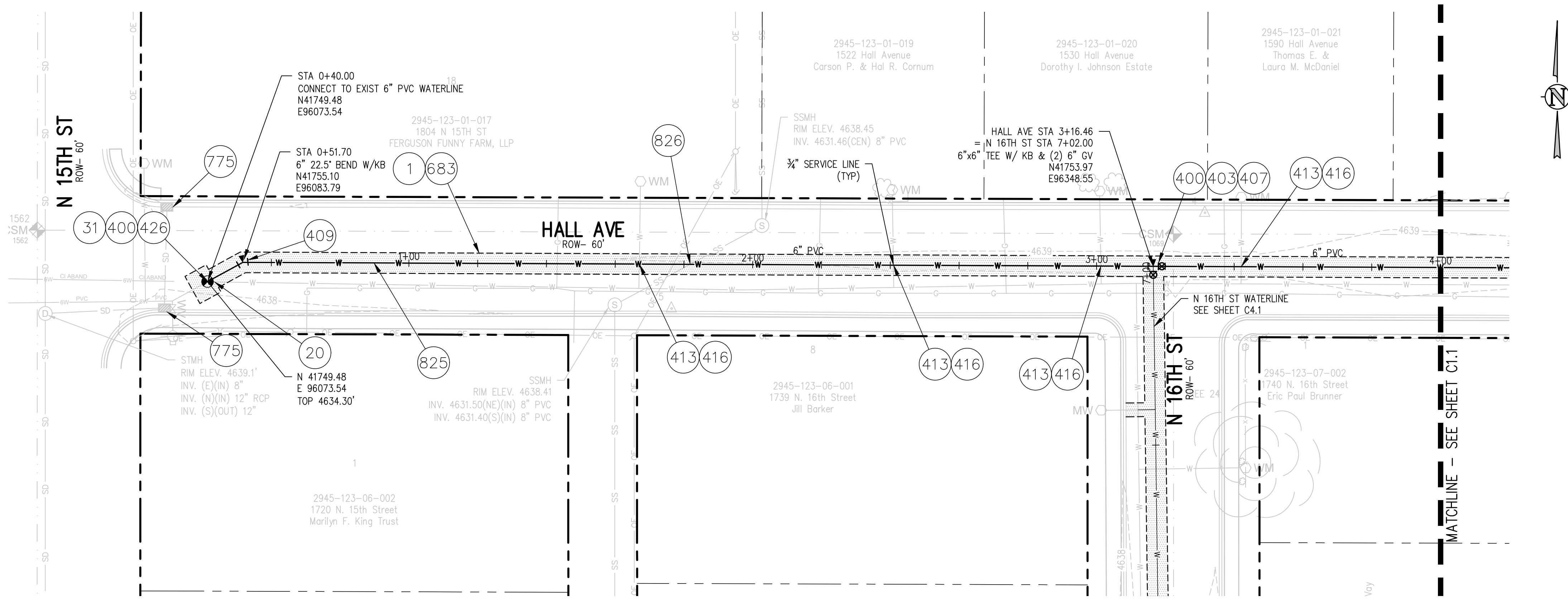
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
ADDENDUM 1	ADDENDUM 1 - CONSTRUCTION NOTE 416	07 18, 2022	ZCF	07 18, 2022
			LAL/ZCF	07 18, 2022
			JJM	07 18, 2022

SCALES: PLAN & PROFILE
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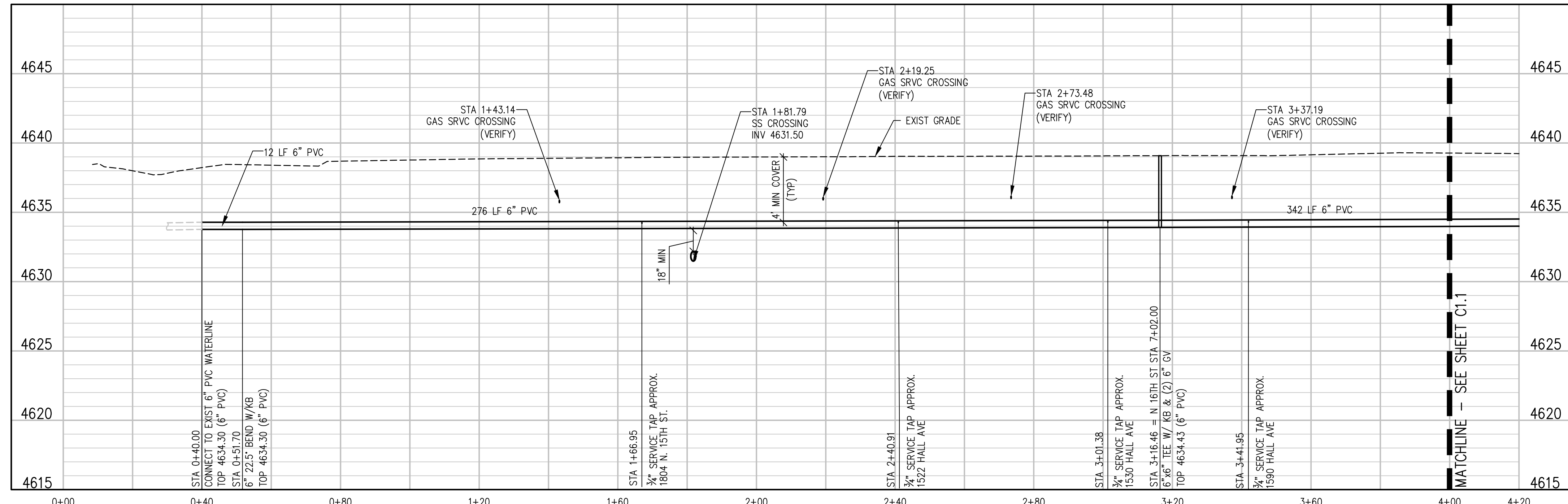
2022 WATERLINE REPLACEMENT
 PROJECT - PHASE 1
 OVERALL UTILITY PLAN

CO.0



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 31 REMOVE EXISTING ELBOW. SALVAGE AND DELIVER TO CITY SHOPS.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 413 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- 416 102.8/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
- 775 208 - STORM DRAIN INLET PROTECTION (EROSION CONTROL LOG) (AS SHOWN AND PER DETAIL)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.

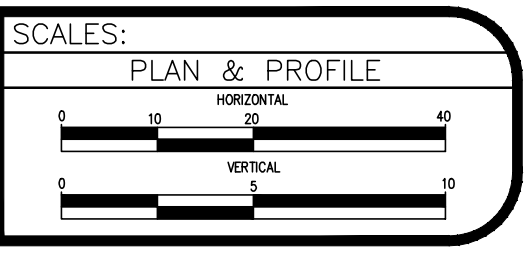


NOTES:

- CONNECT TO EXISTING SERVICE LINES OR EXTEND SERVICE LINES TO NEW 6" WATERLINE
- ALL CURB STOP AND SERVICE LINE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION
- IF CURB STOP WAS NOT LOCATED FIELD LOCATE CURB STOP AND REPLACE EXIST SRVC CONNECTION WITH NEW CONNECTION TO NEW 6" WATERLINE

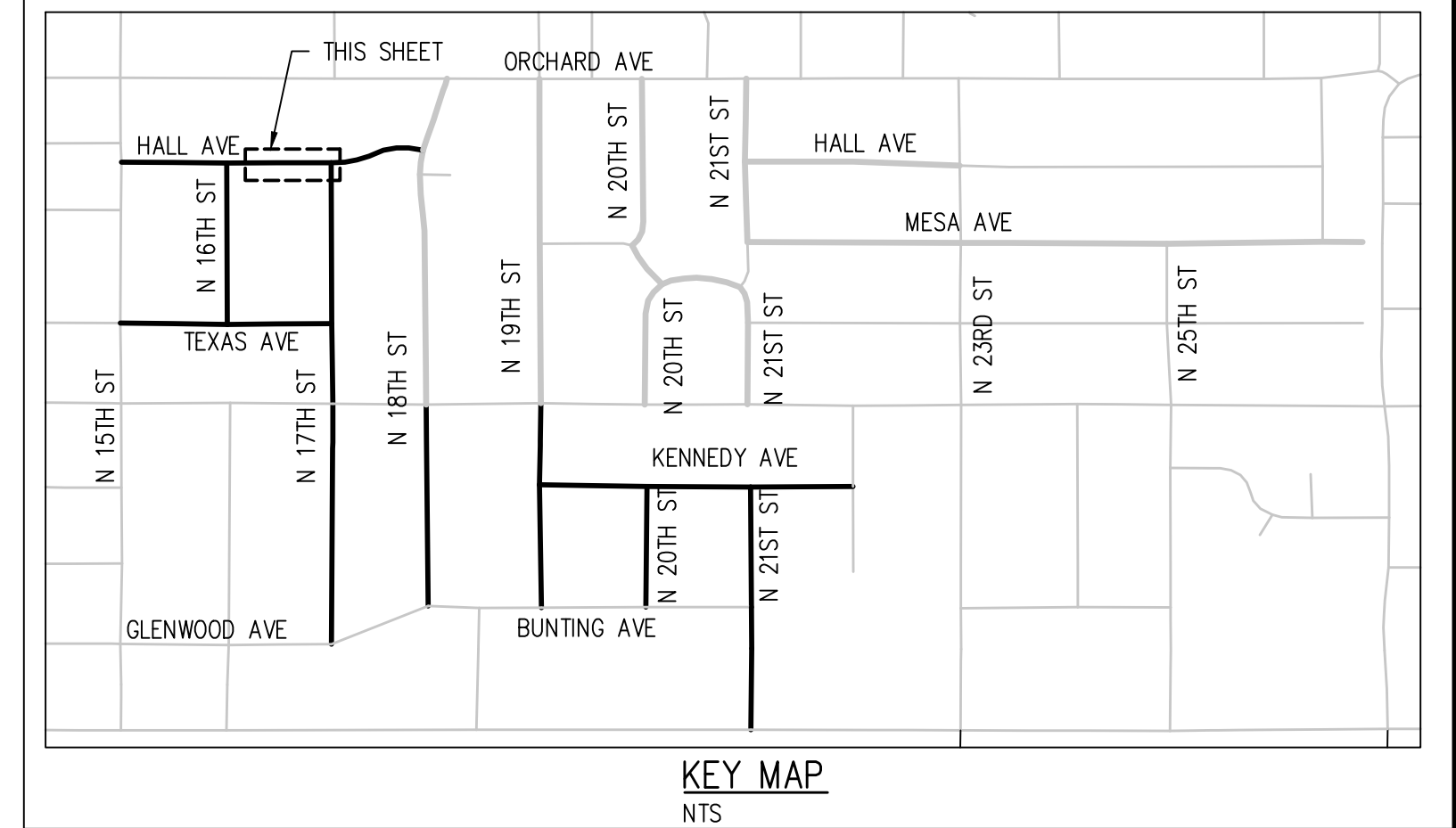
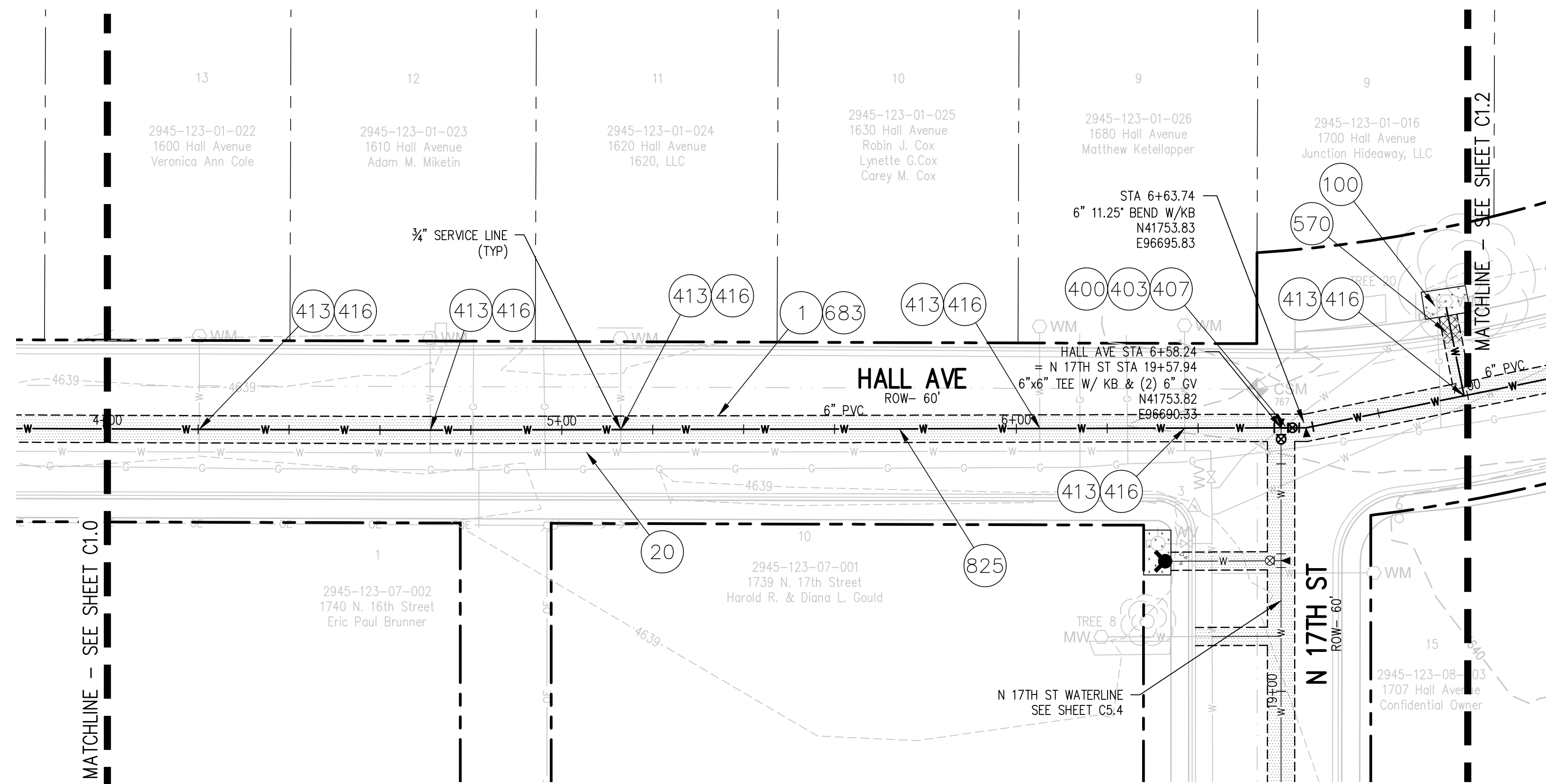
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
2			LAL/ZCF	09 22, 2022
3			JJM	09 22, 2022
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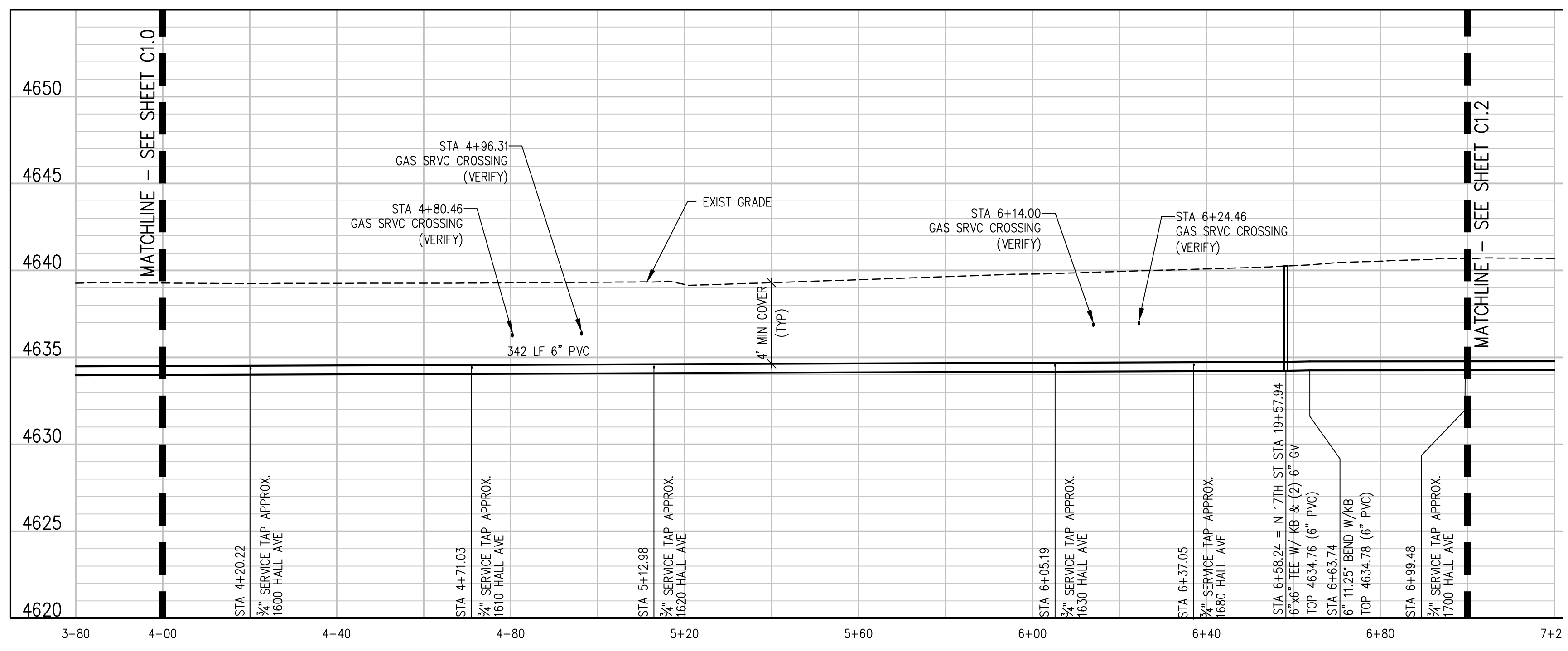
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
HALL AVE WATER PLAN & PROFILE

C1.0



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 570 608.06 - MONOLITHIC CURB, GUTTER, AND SIDEWALK (6' WIDE)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.

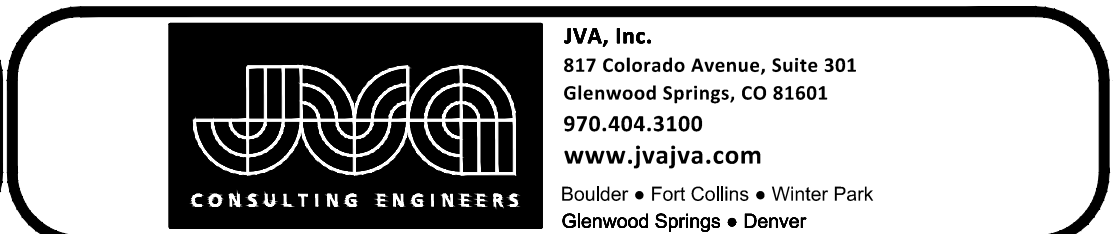
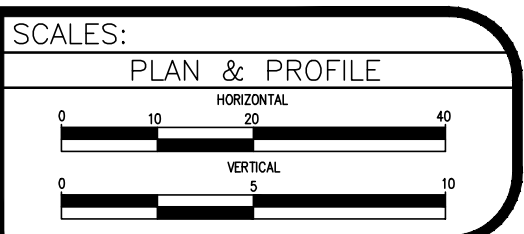


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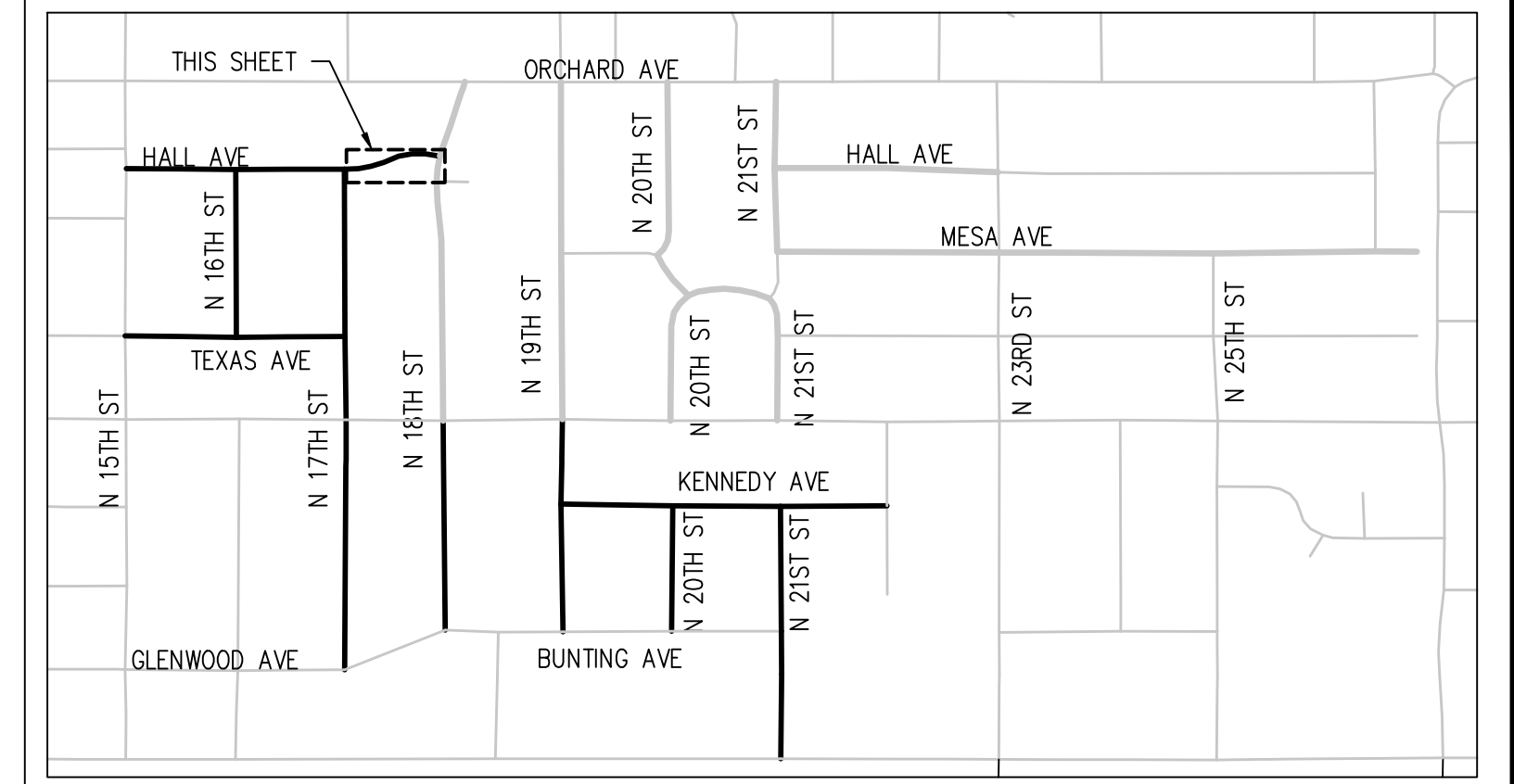
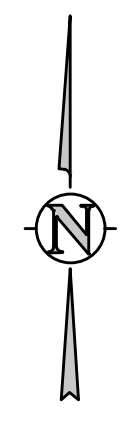
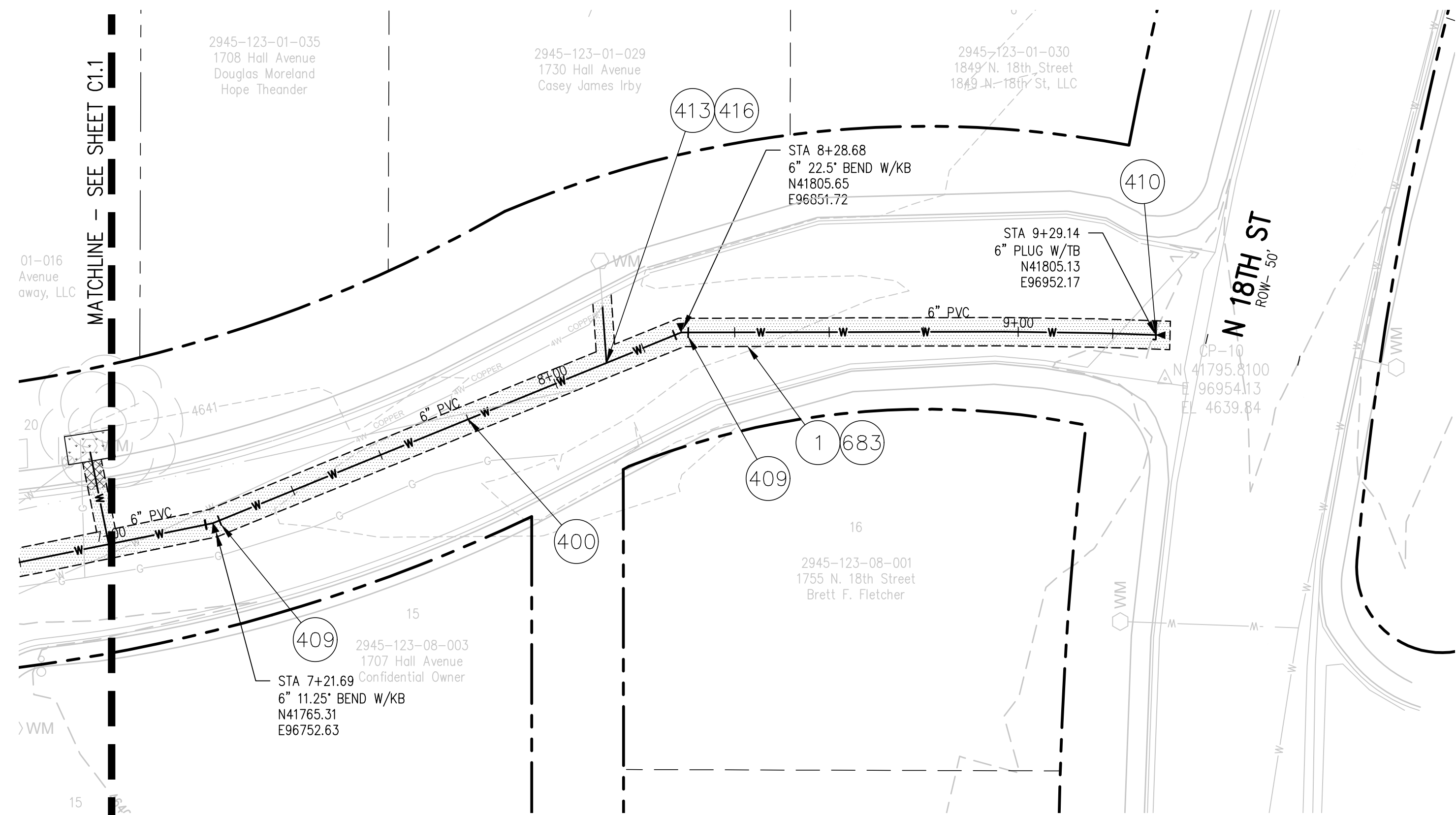
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
REVISION			LAL/ZCF	09 22, 2022
REVISION			JJM	09 22, 2022
REVISION				



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1

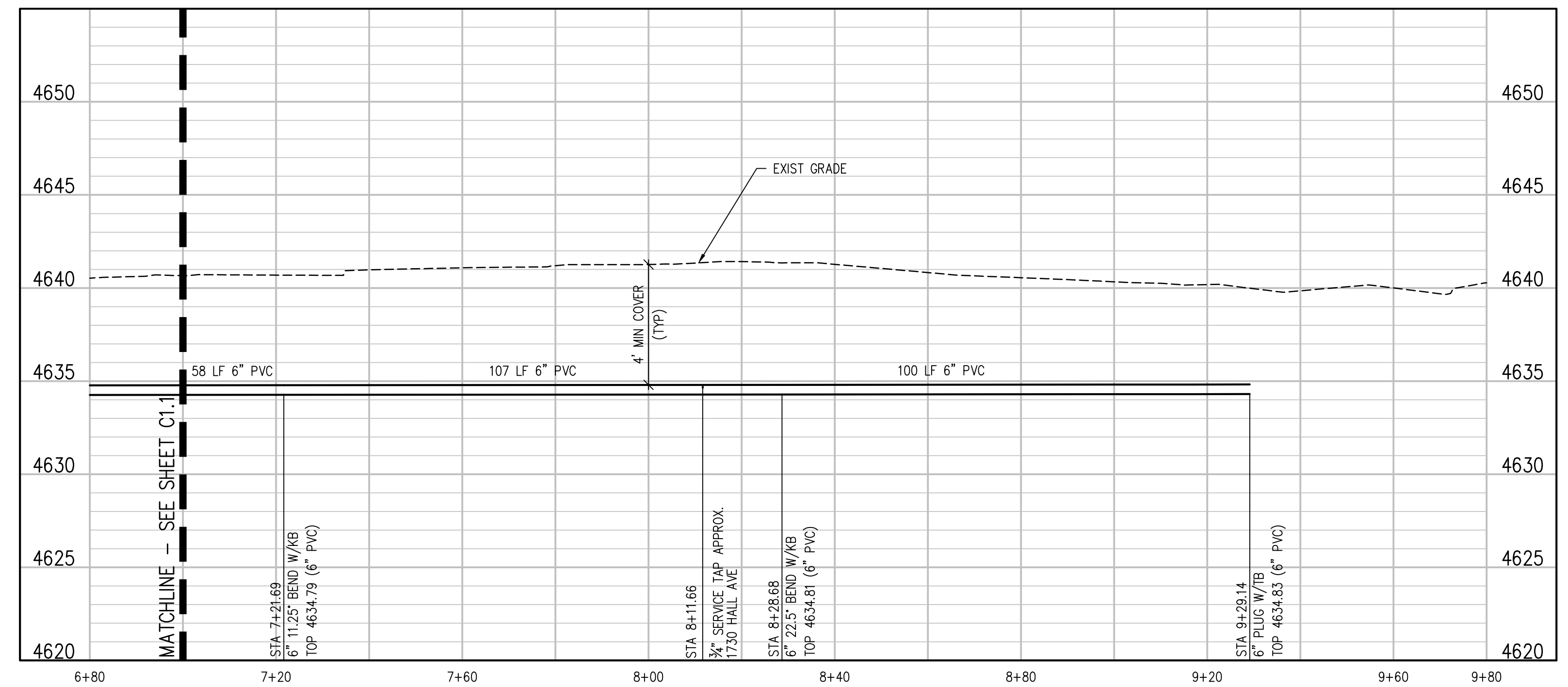
HALL AVE WATER PLAN & PROFILE

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CONSTRUCTION NOTES

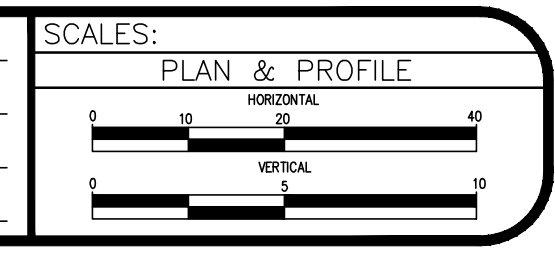
- ① 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- ④00 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ④10 102.8/108.3 - END CAP / PLUG (SIZE AS SHOWN)
- ④13 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- ④16 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- ⑥83 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)



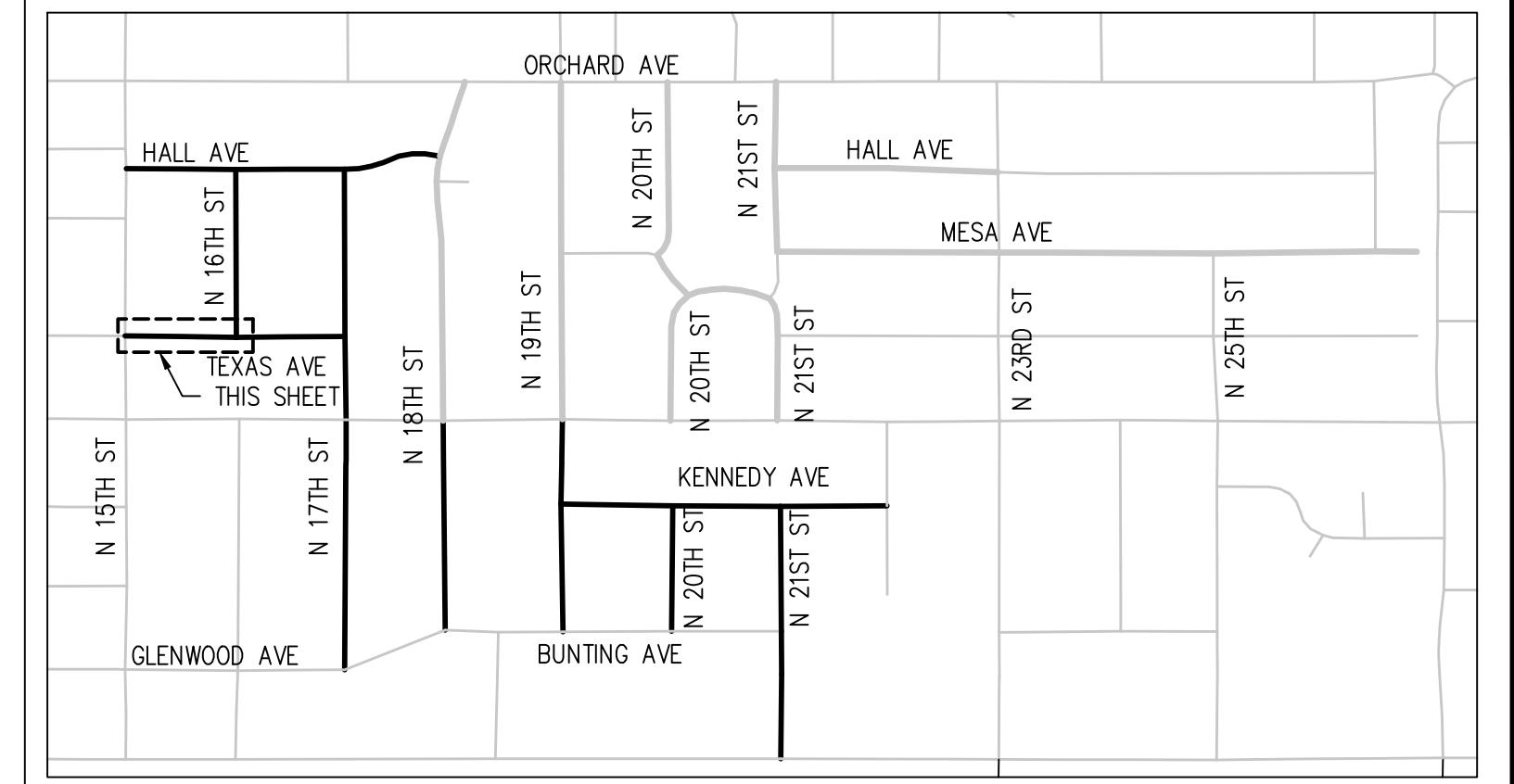
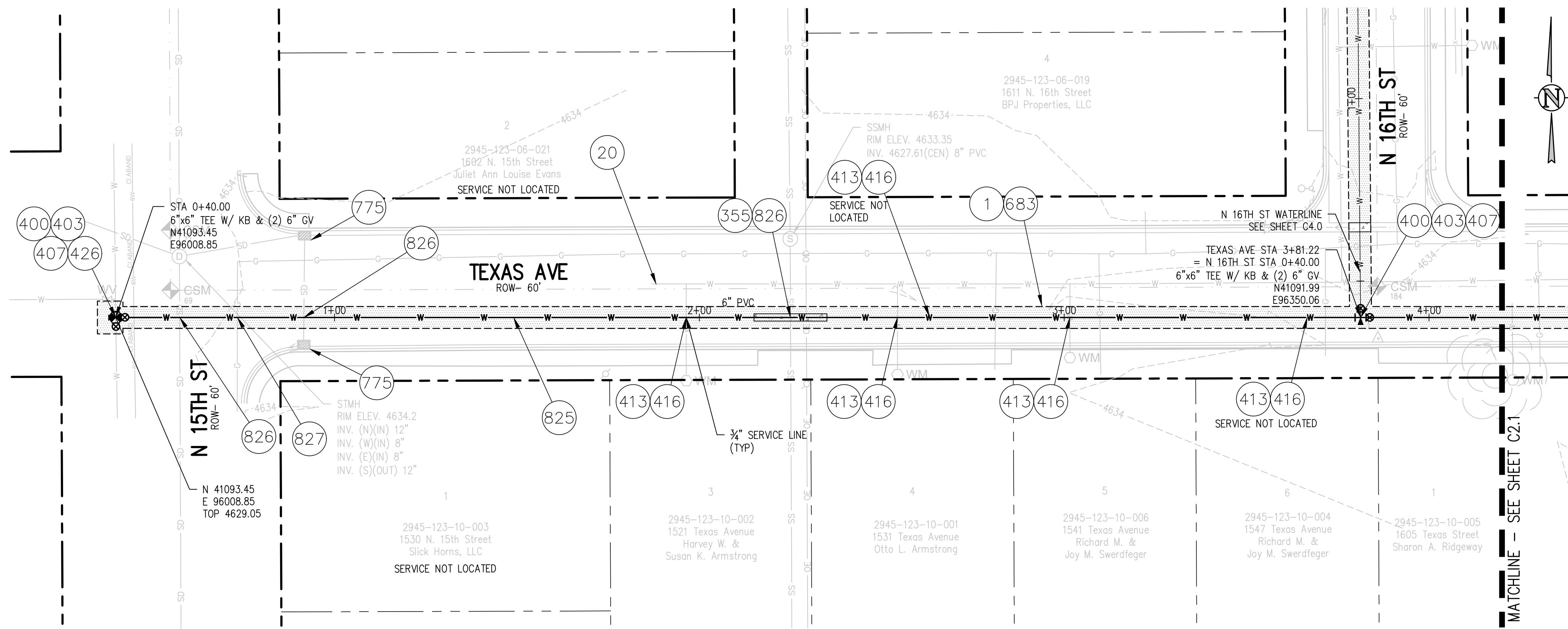
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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REVISION			LAL/ZCF	09 22, 2022
REVISION			JJM	09 22, 2022
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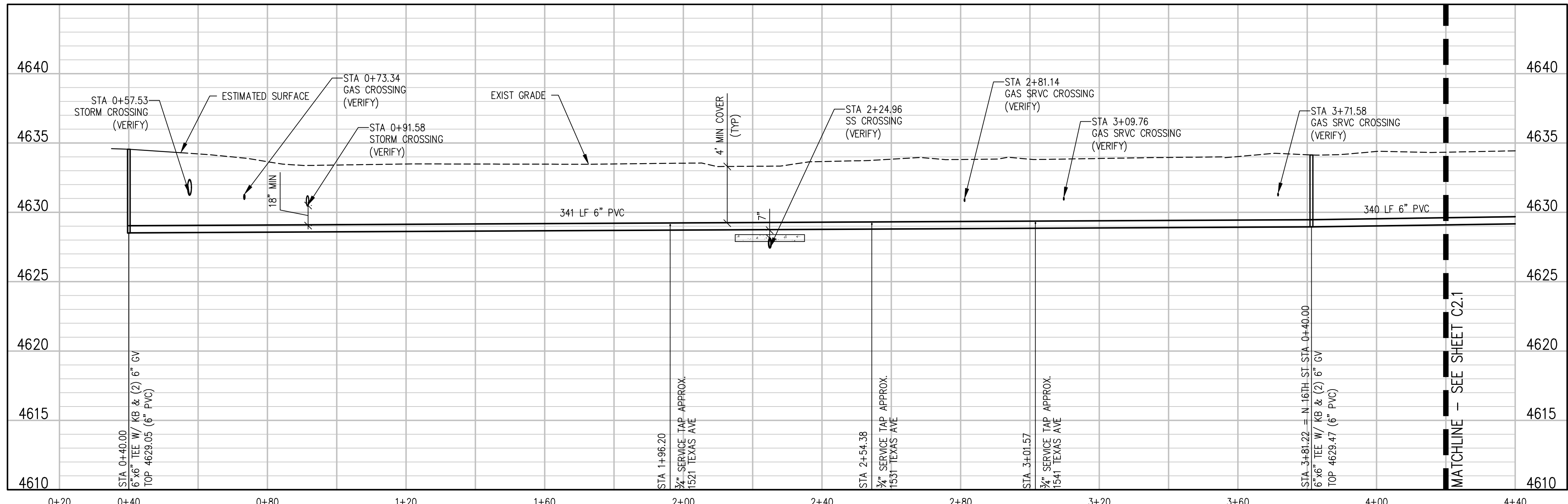


2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 HALL AVE WATER PLAN & PROFILE



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
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- 413 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
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- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
- 775 208 - STORM DRAIN INLET PROTECTION (EROSION CONTROL LOG) (AS SHOWN AND PER DETAIL)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 827 PROTECT EXISTING GAS.

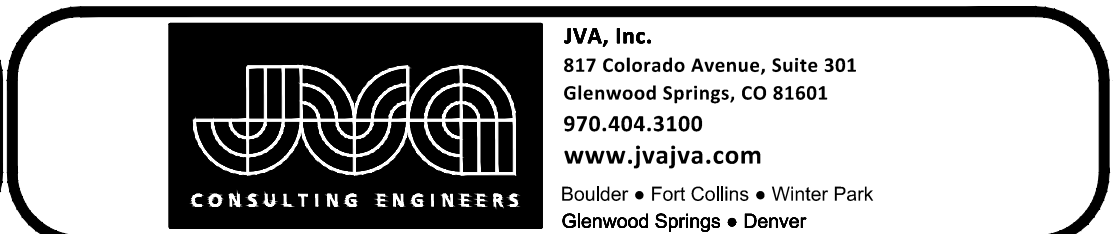
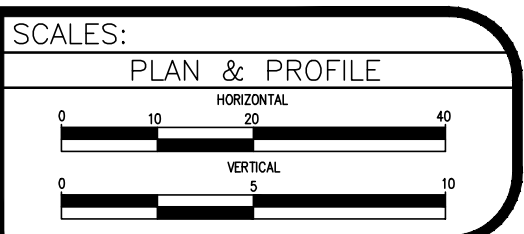


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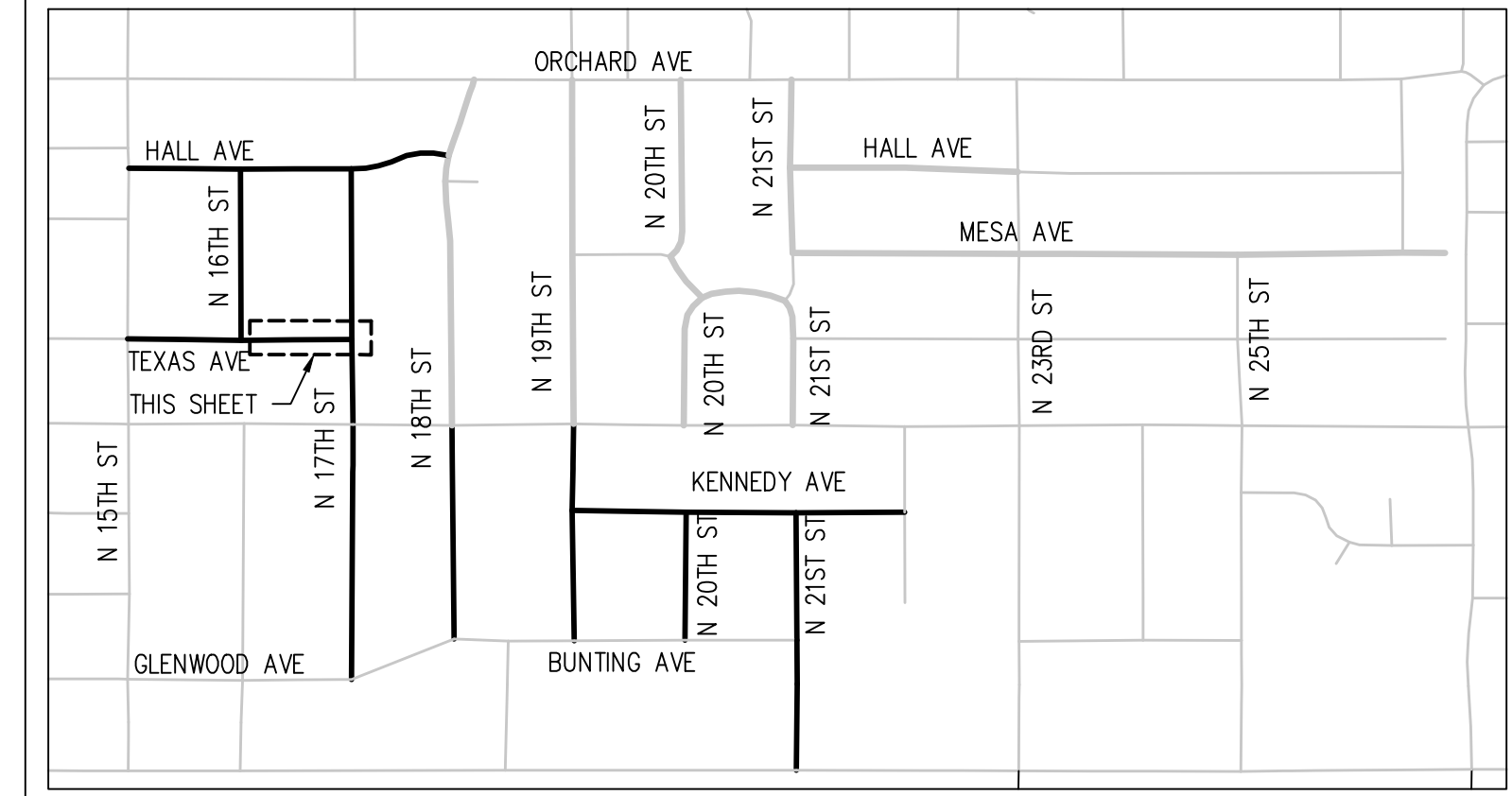
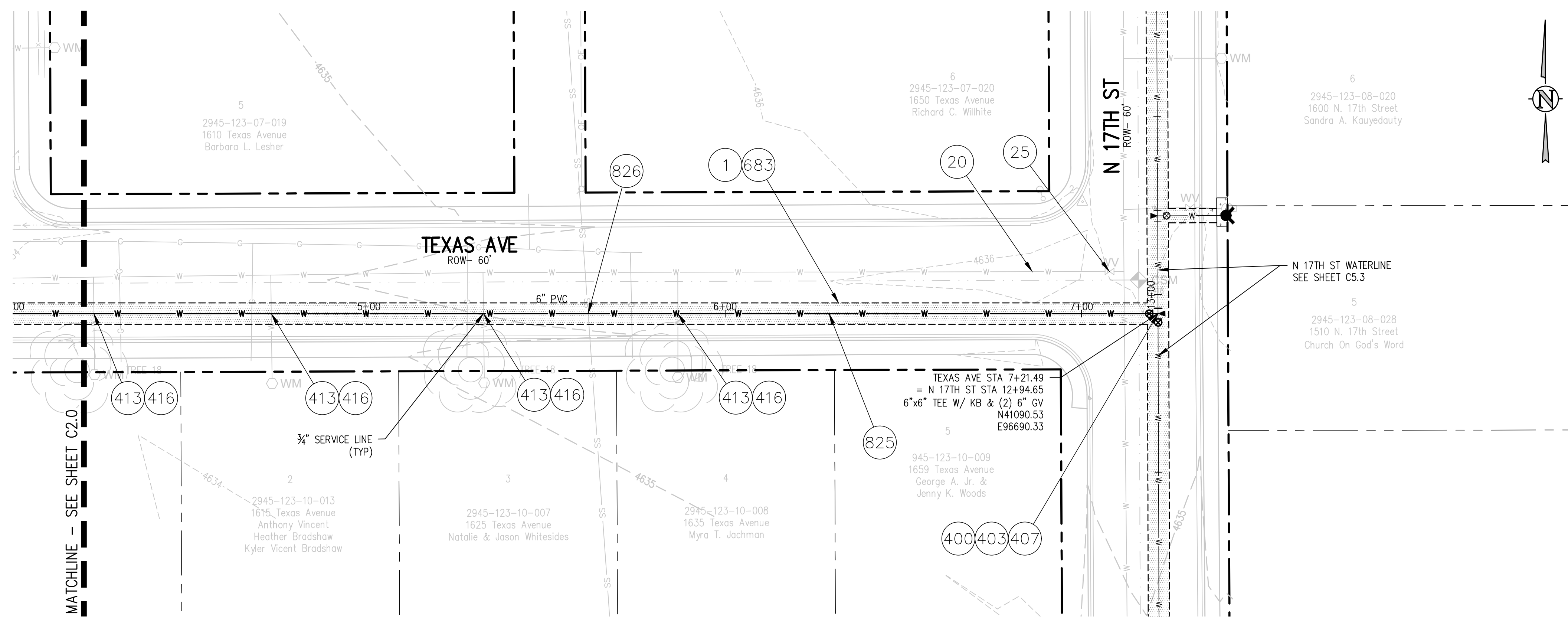
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
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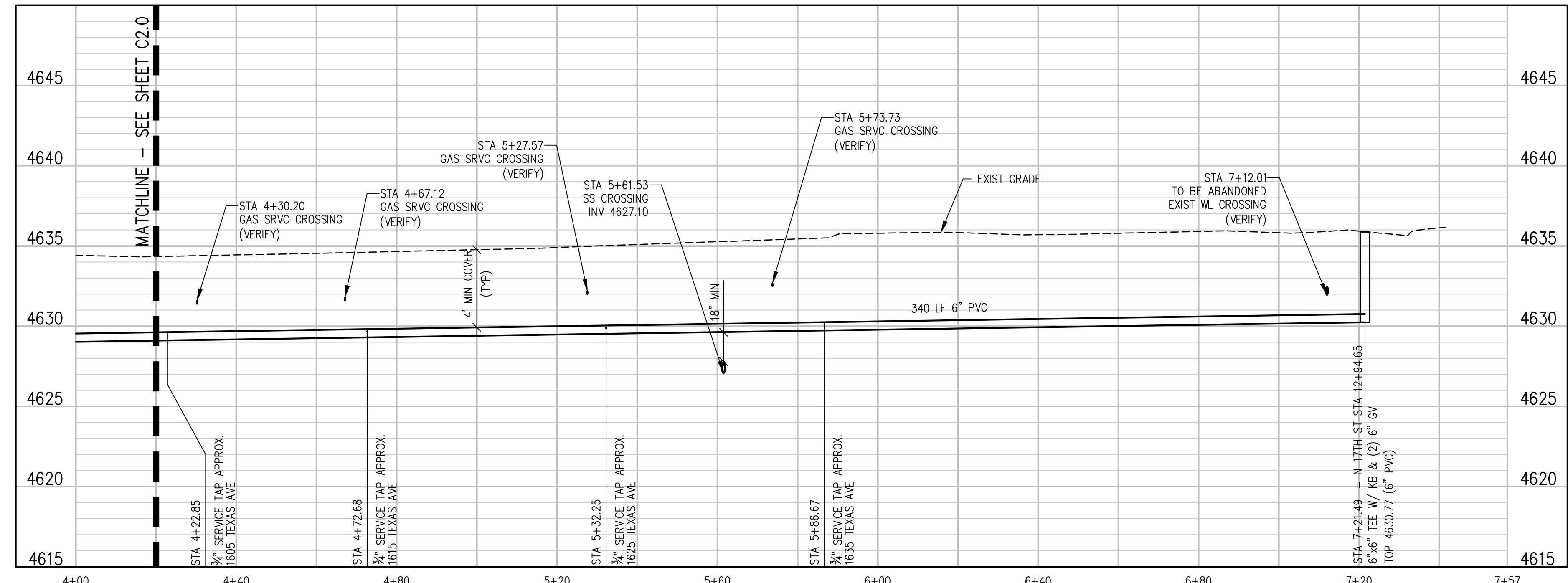
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 TEXAS AVE WATER PLAN & PROFILE

C2.0



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING FILL BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
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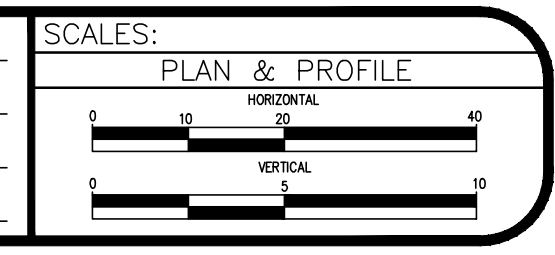


NOTES:

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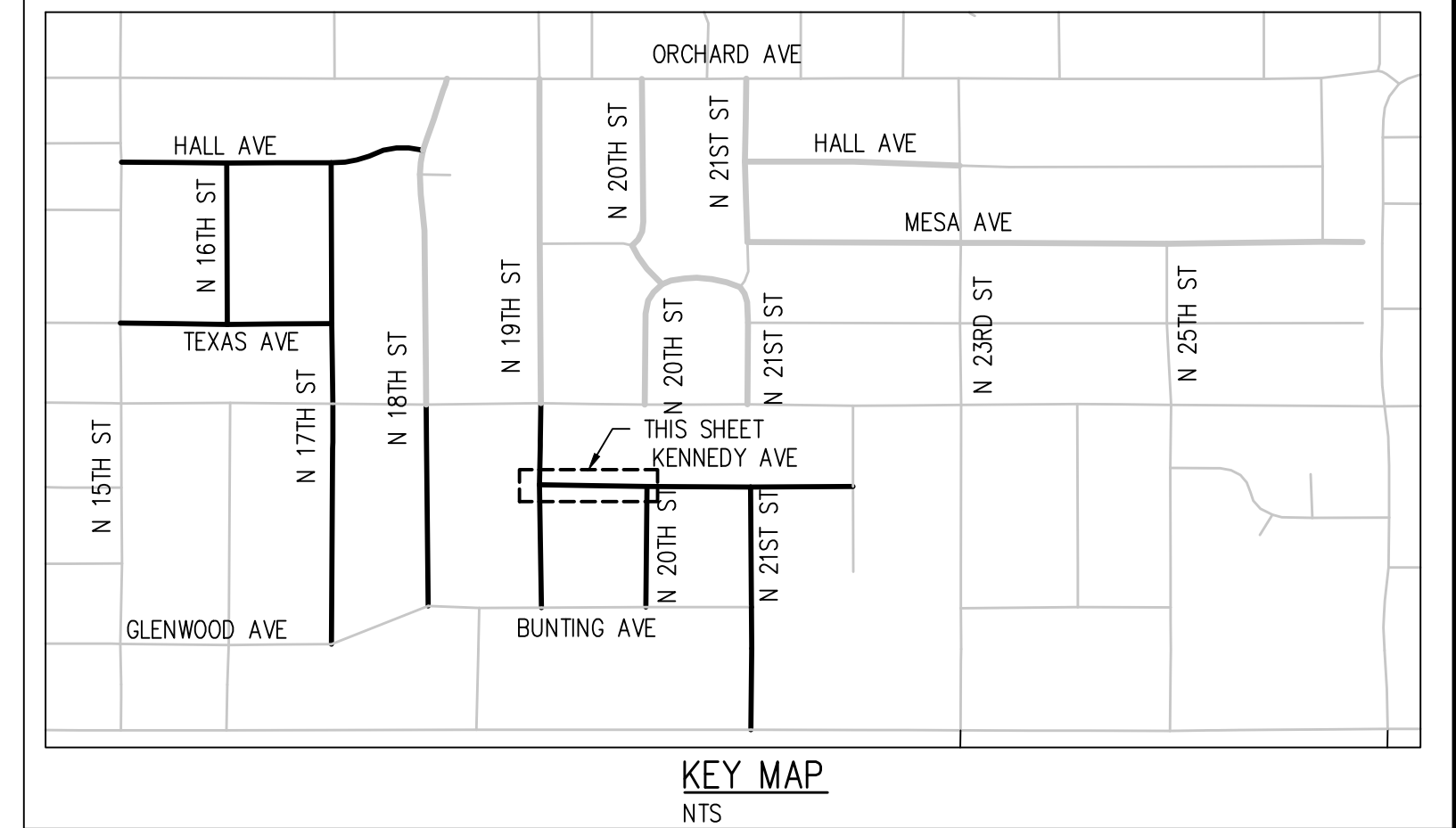
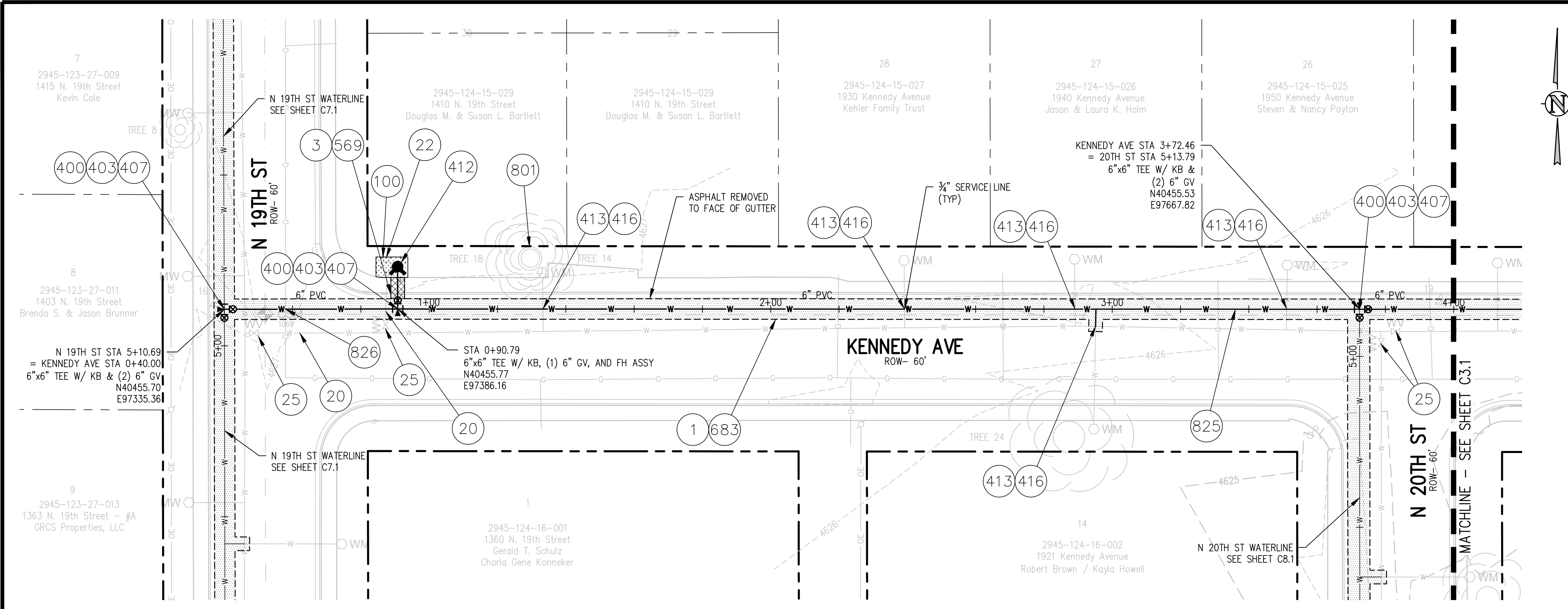
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REVISION			LAL/ZCF	09 22, 2022
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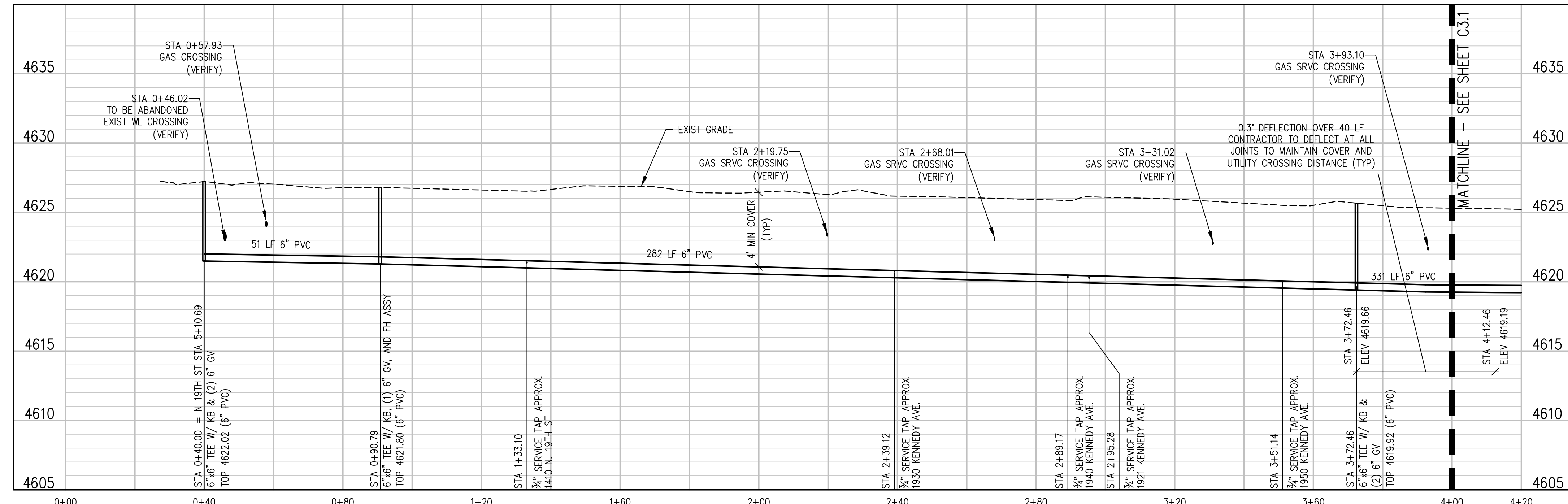
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1 TEXAS AVE WATER PLAN & PROFILE

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CONSTRUCTION NOTES

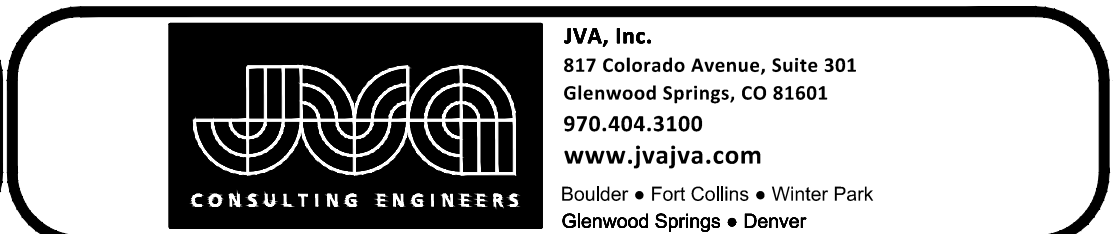
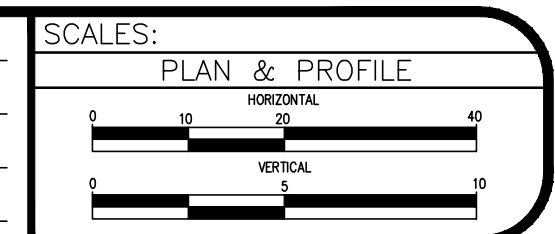
- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN), INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
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- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (5' WIDE)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
- 801 PROTECT TREE
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 827 PROTECT EXISTING GAS.



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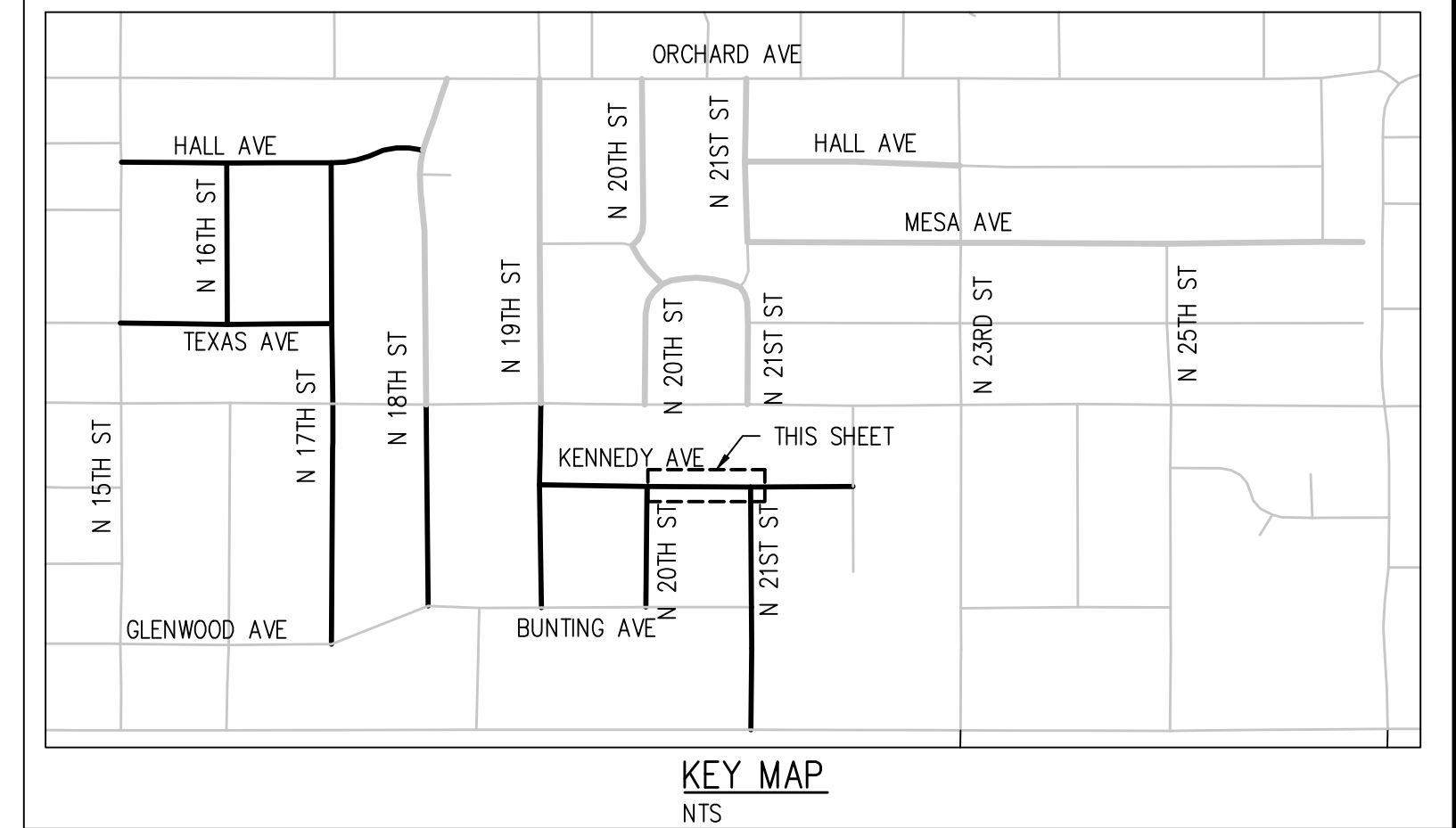
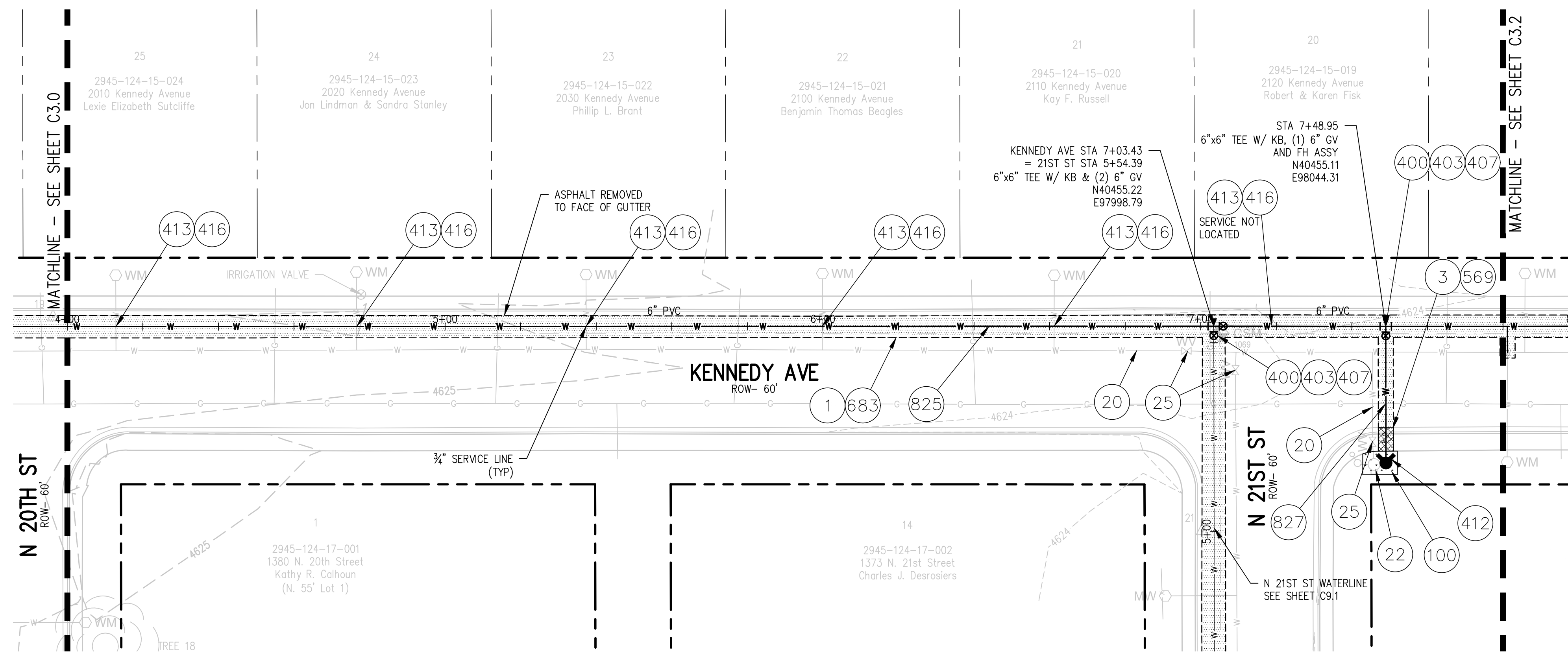
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REVISION	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022
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DRAWN BY	ZCF	DATE	09 22, 2022
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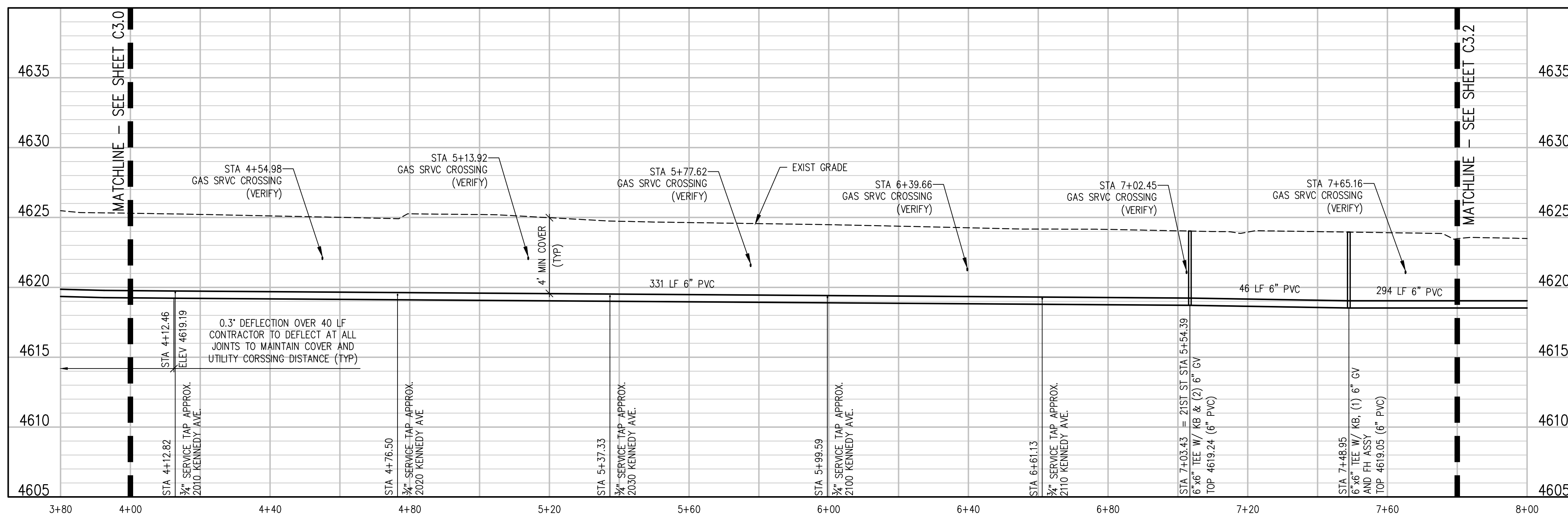


2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
KENNEDY AVE WATER PLAN & PROFILE

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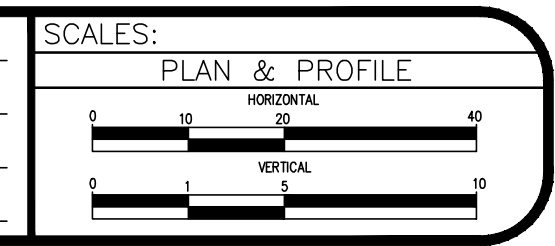
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 - 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
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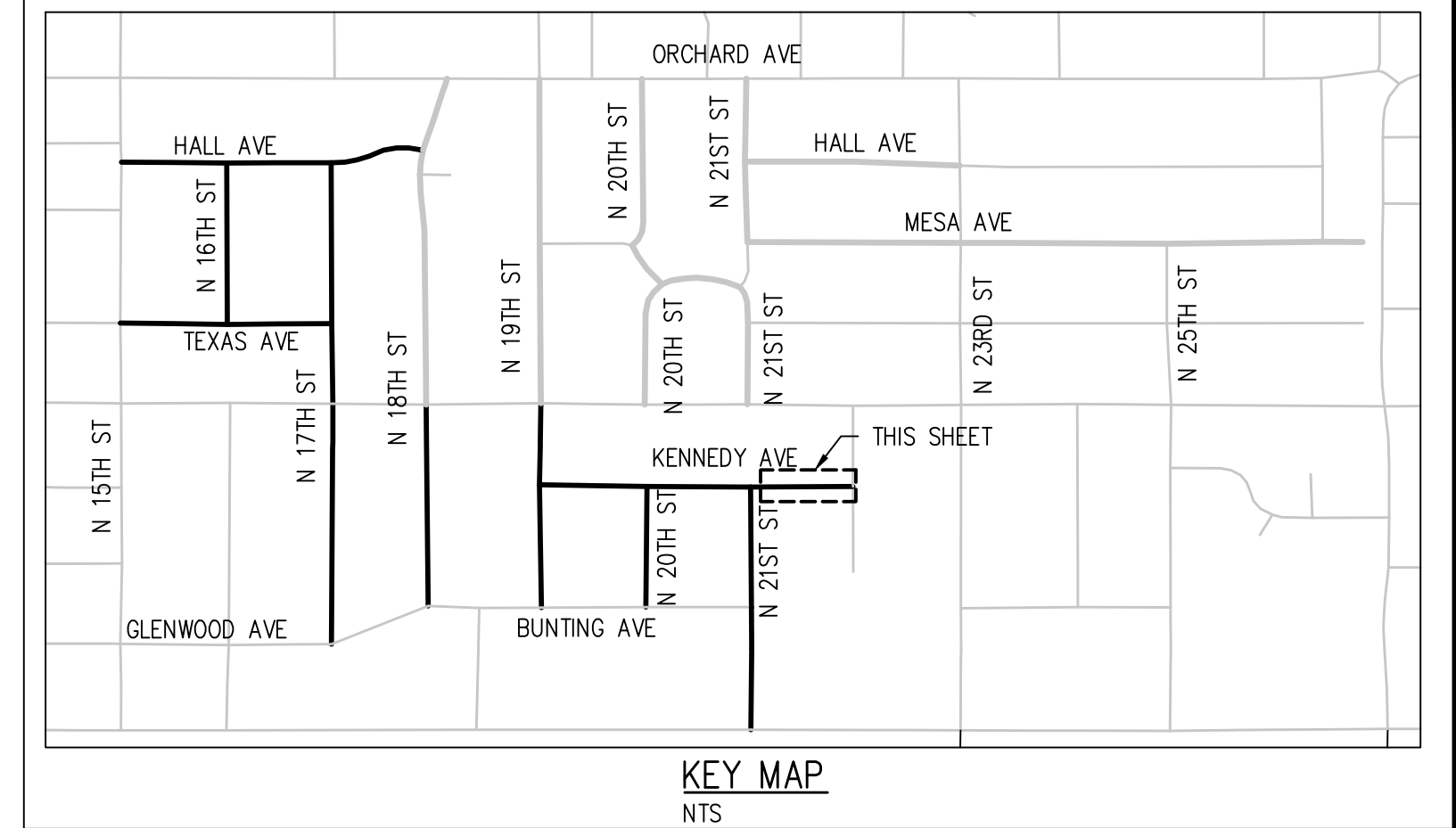
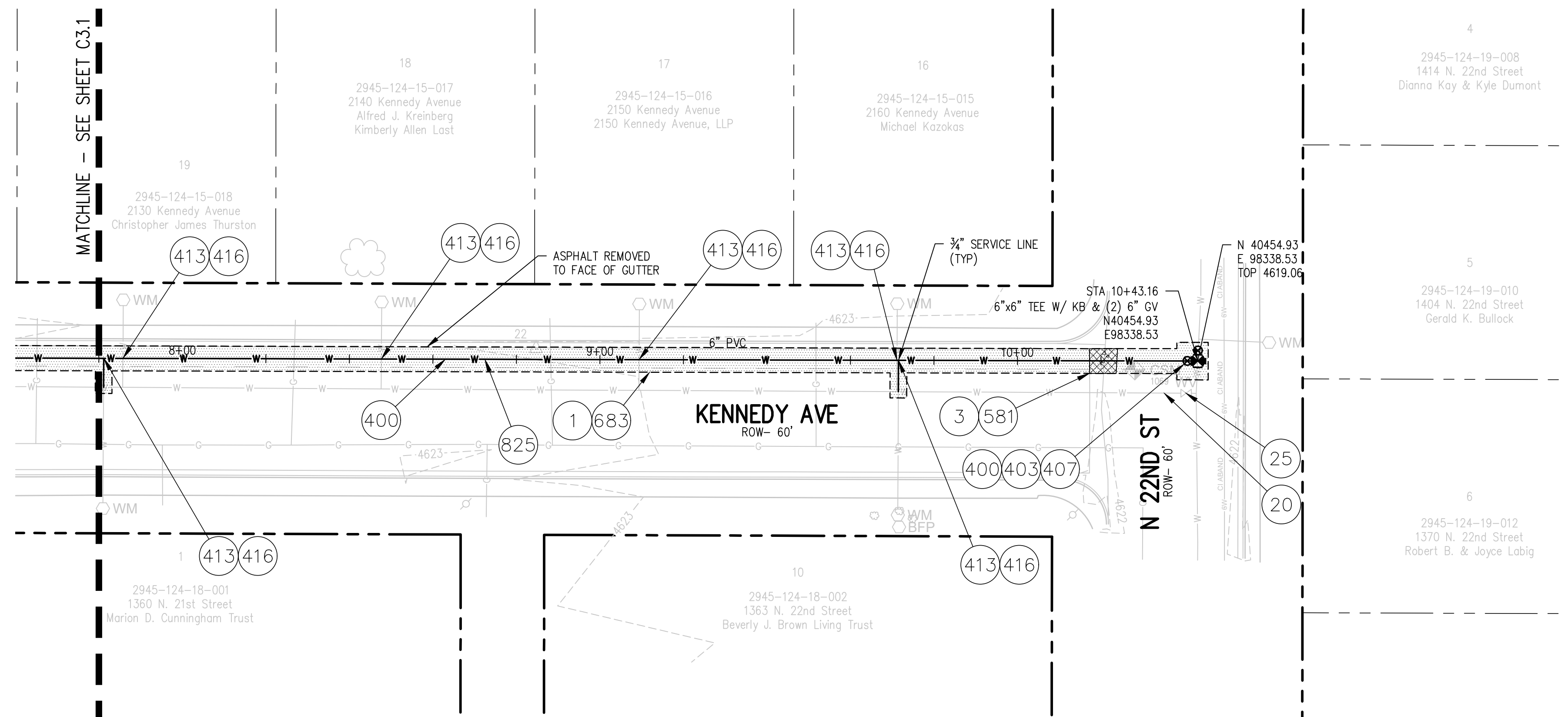
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
2			LAL/ZCF	09 22, 2022
3			JJM	09 22, 2022
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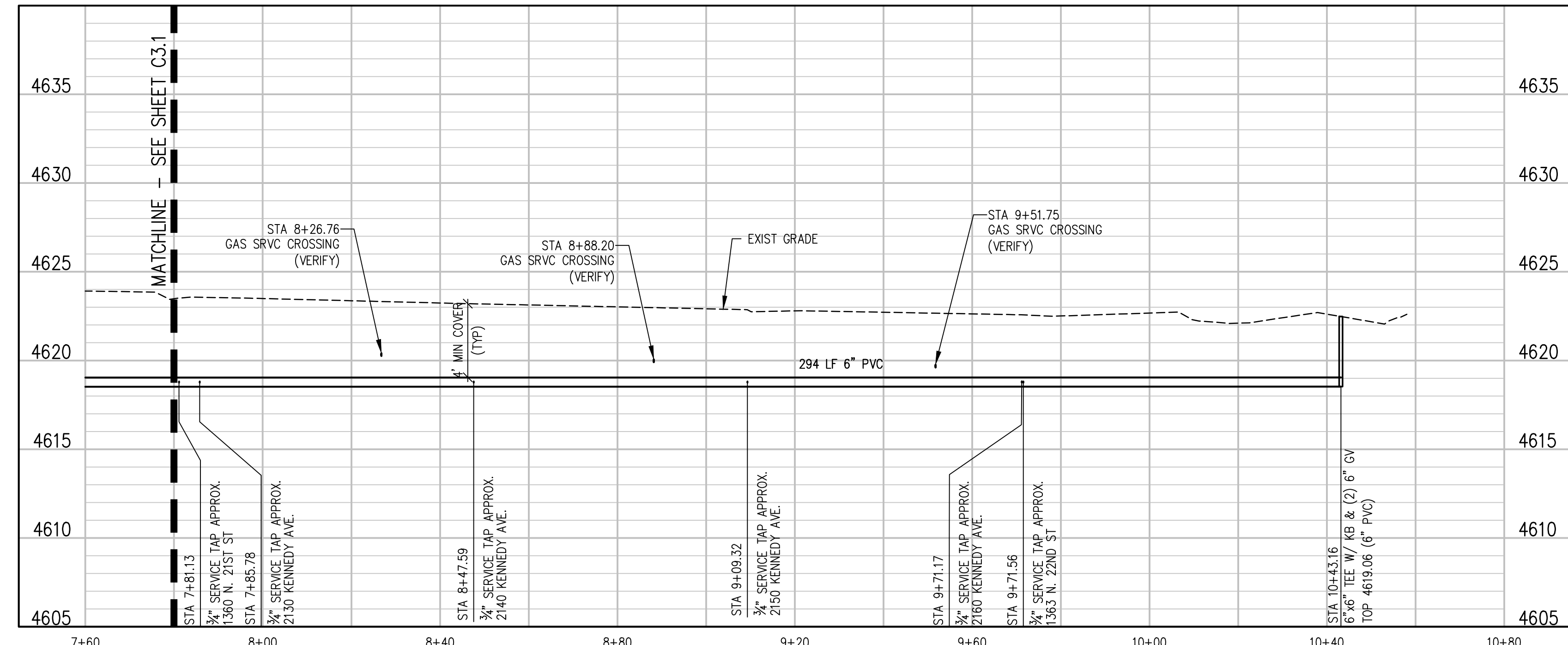


2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
KENNEDY AVE WATER PLAN & PROFILE

C3.1



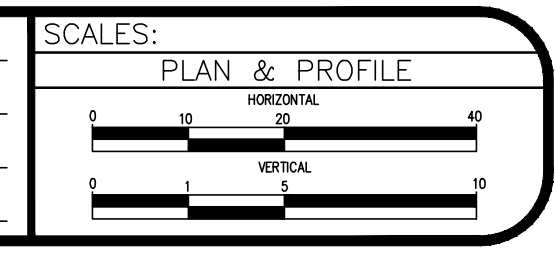
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- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
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 - 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
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 - 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
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 - 413 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
 - 416 102.8j/108.4 CORPORATION STOP (SIZE AS SHOWN ON PLAN)
 - 581 608.06 - CONCRETE DRAINAGE PAN (6" WIDE)
 - 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
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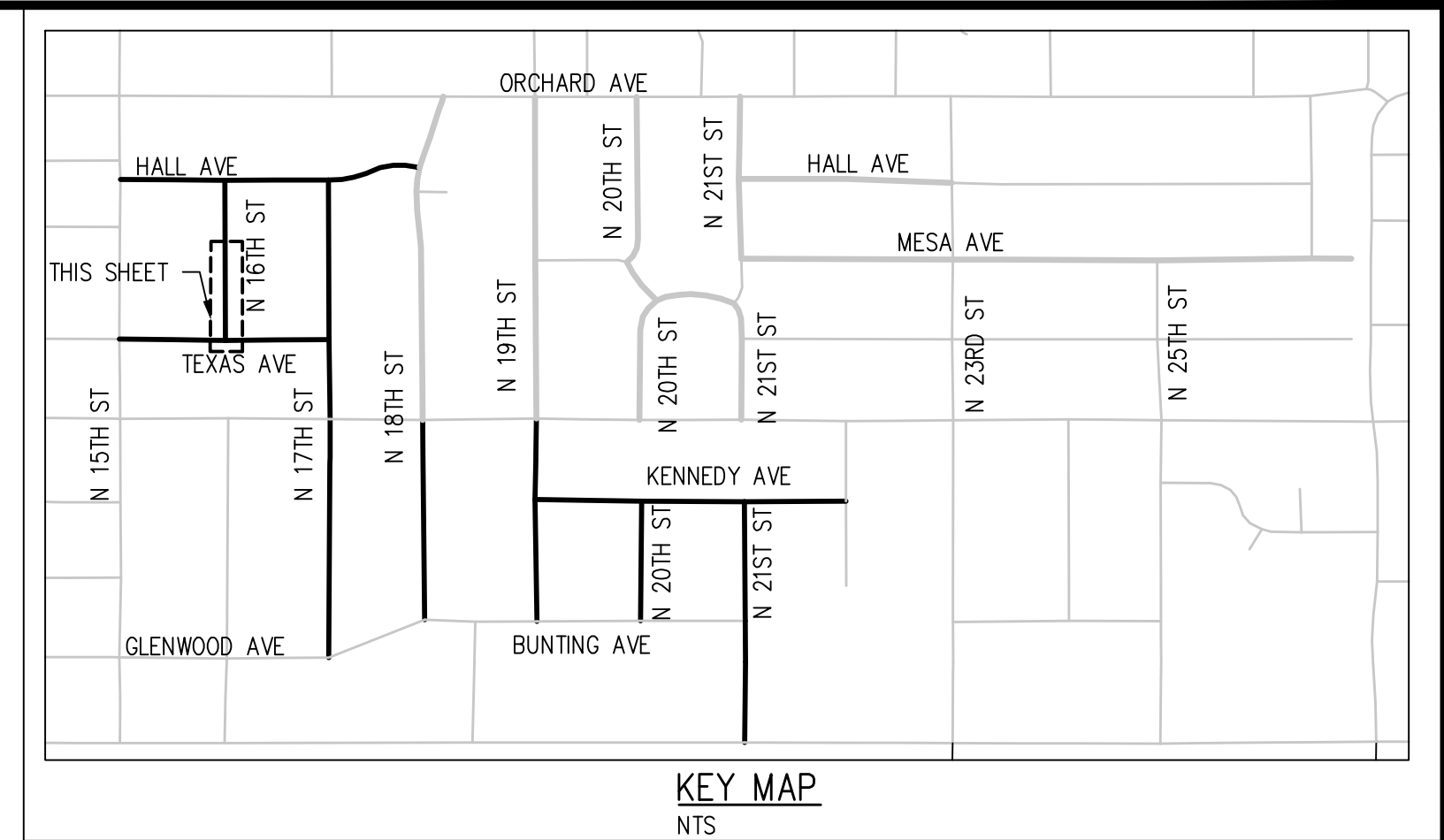
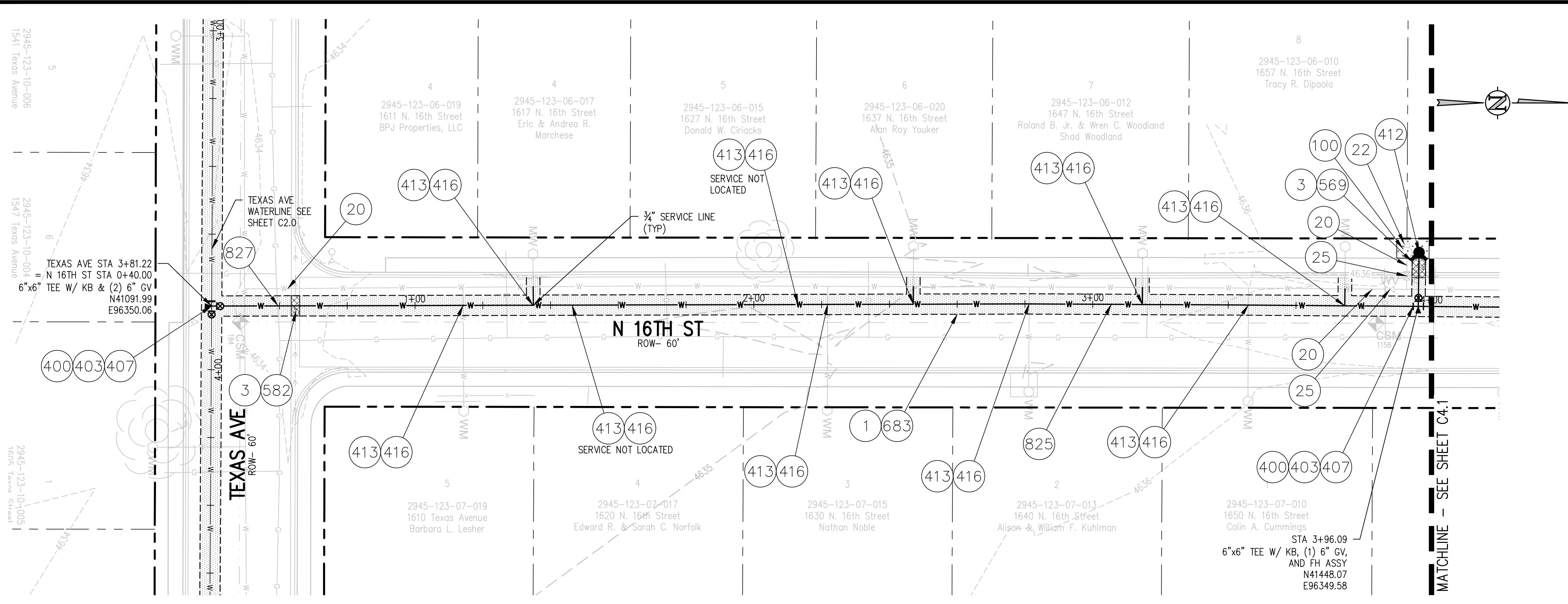
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
REVISION Δ			LAL/ZCF	09 22, 2022
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REVISION Δ				



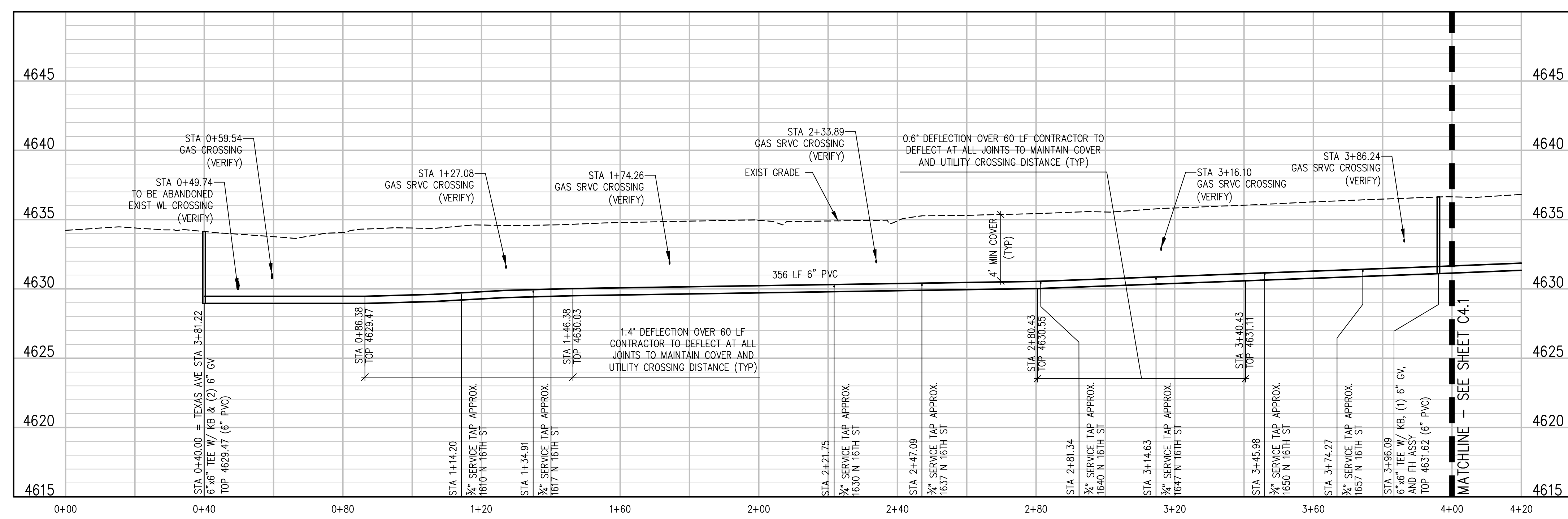
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
KENNEDY AVE WATER PLAN & PROFILE

C3.2



CONSTRUCTION NOTES

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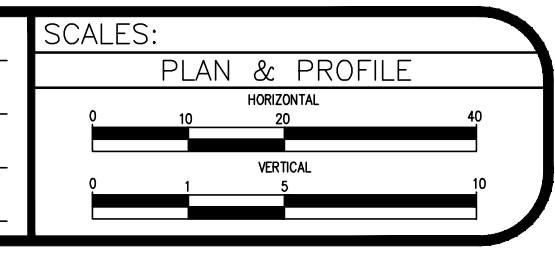


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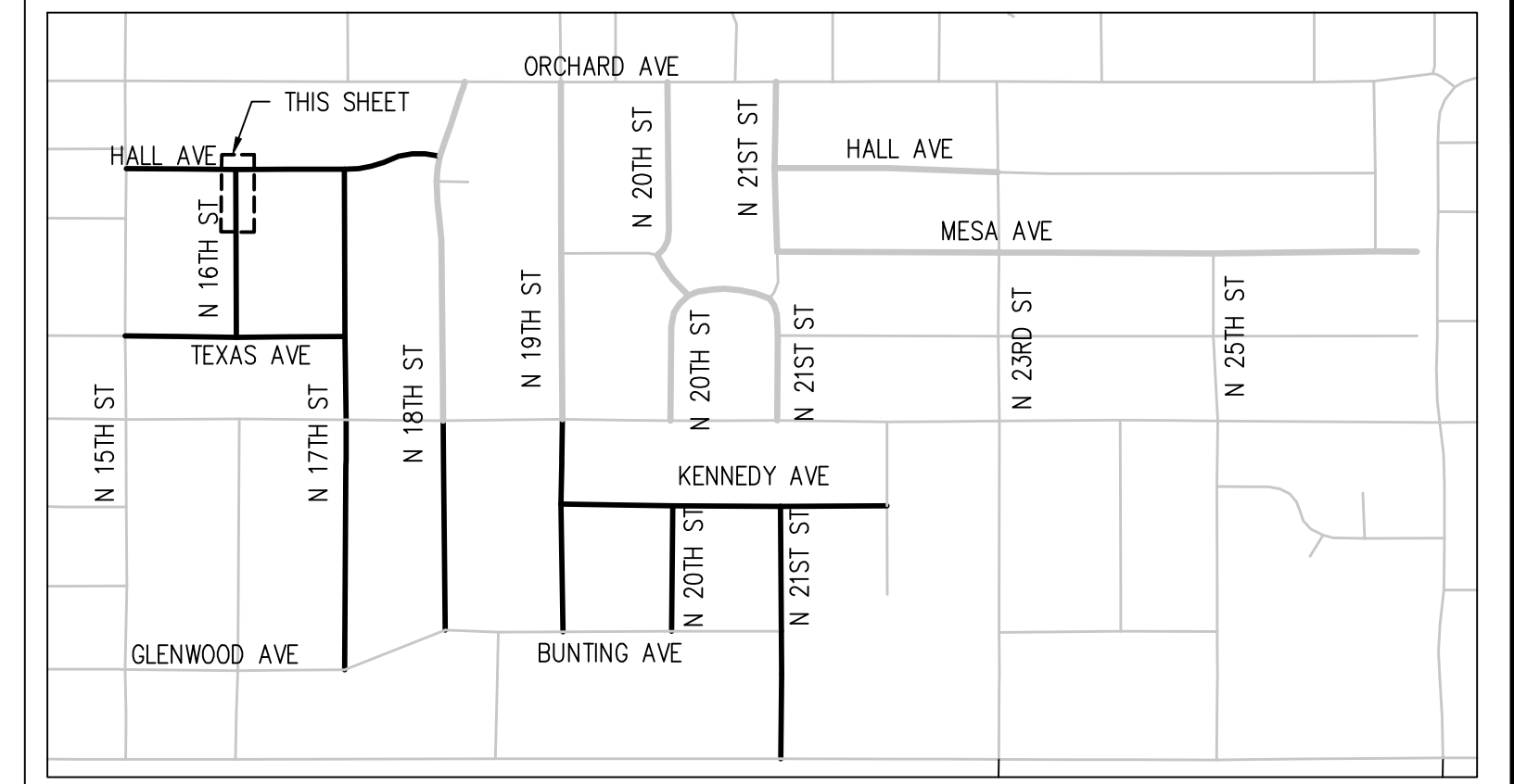
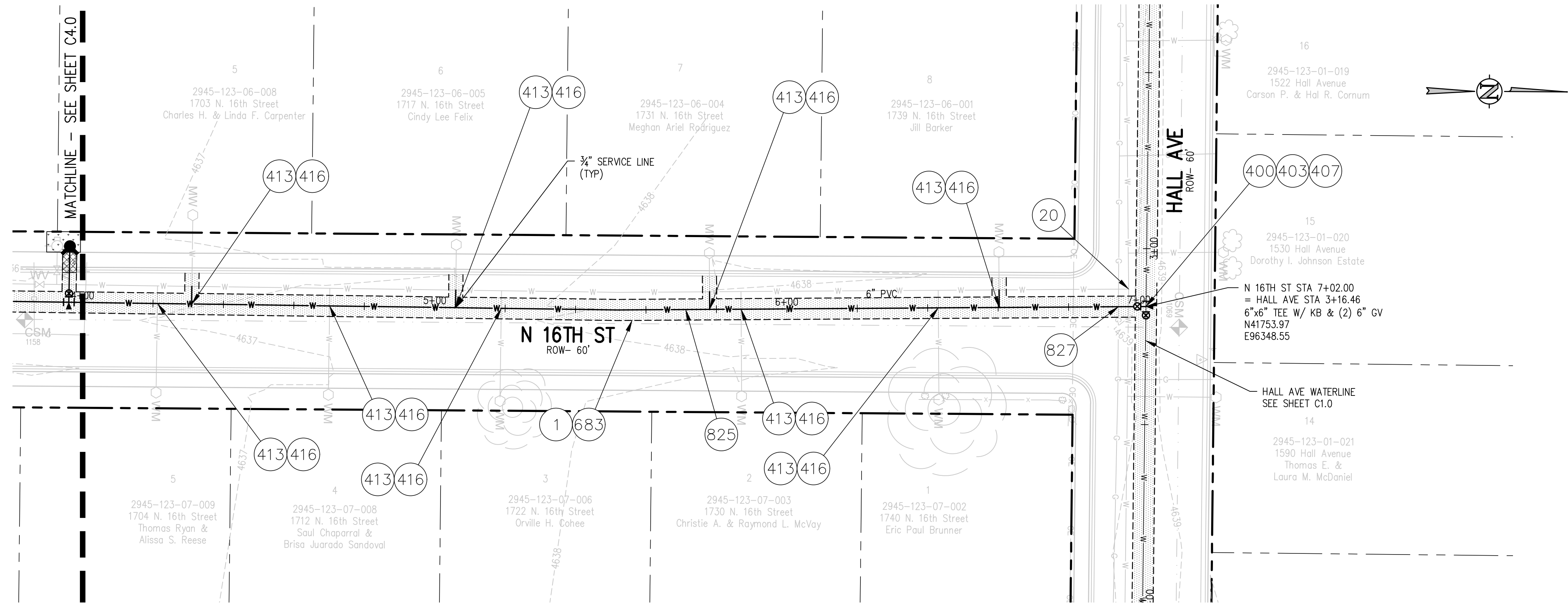
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2022 WATERLINE REPLACEMENT PROJECT - PHASE 1

N 16TH ST WATER PLAN & PROFILE

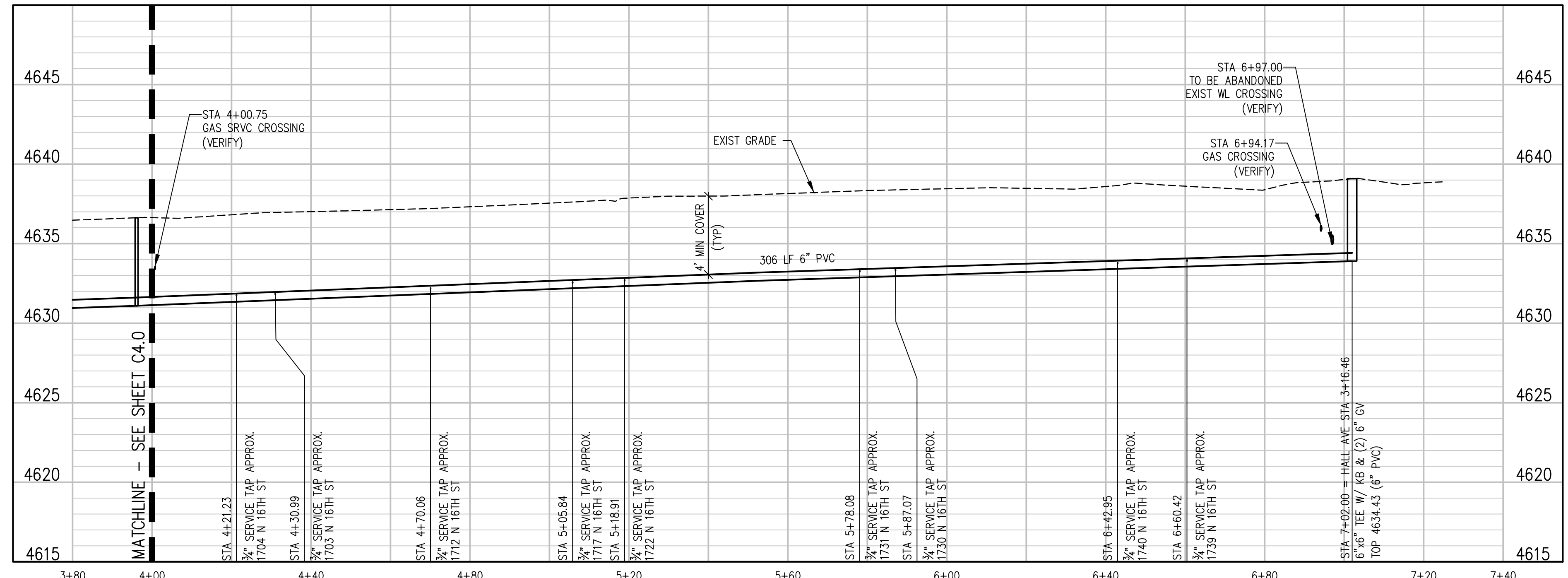
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KEY MAP
NTS

CONSTRUCTION NOTES

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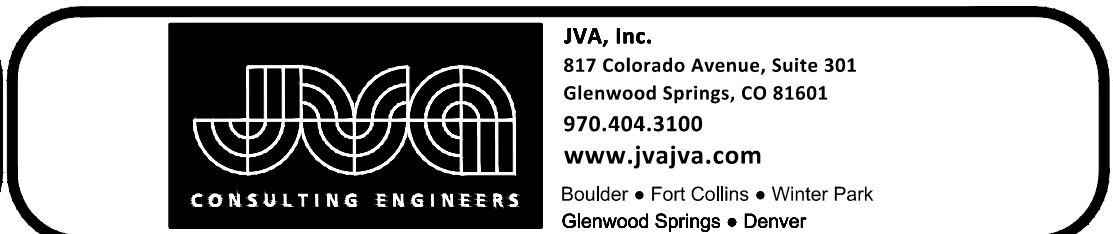
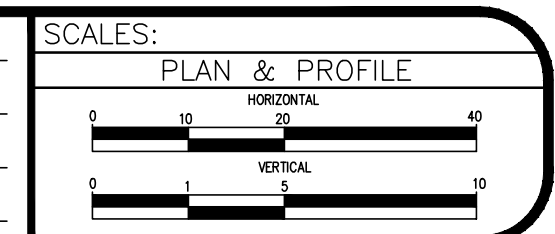


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REVISION	DESCRIPTION	DATE
ADDENDUM 1	CONSTRUCTION NOTE 416	9/29/2022

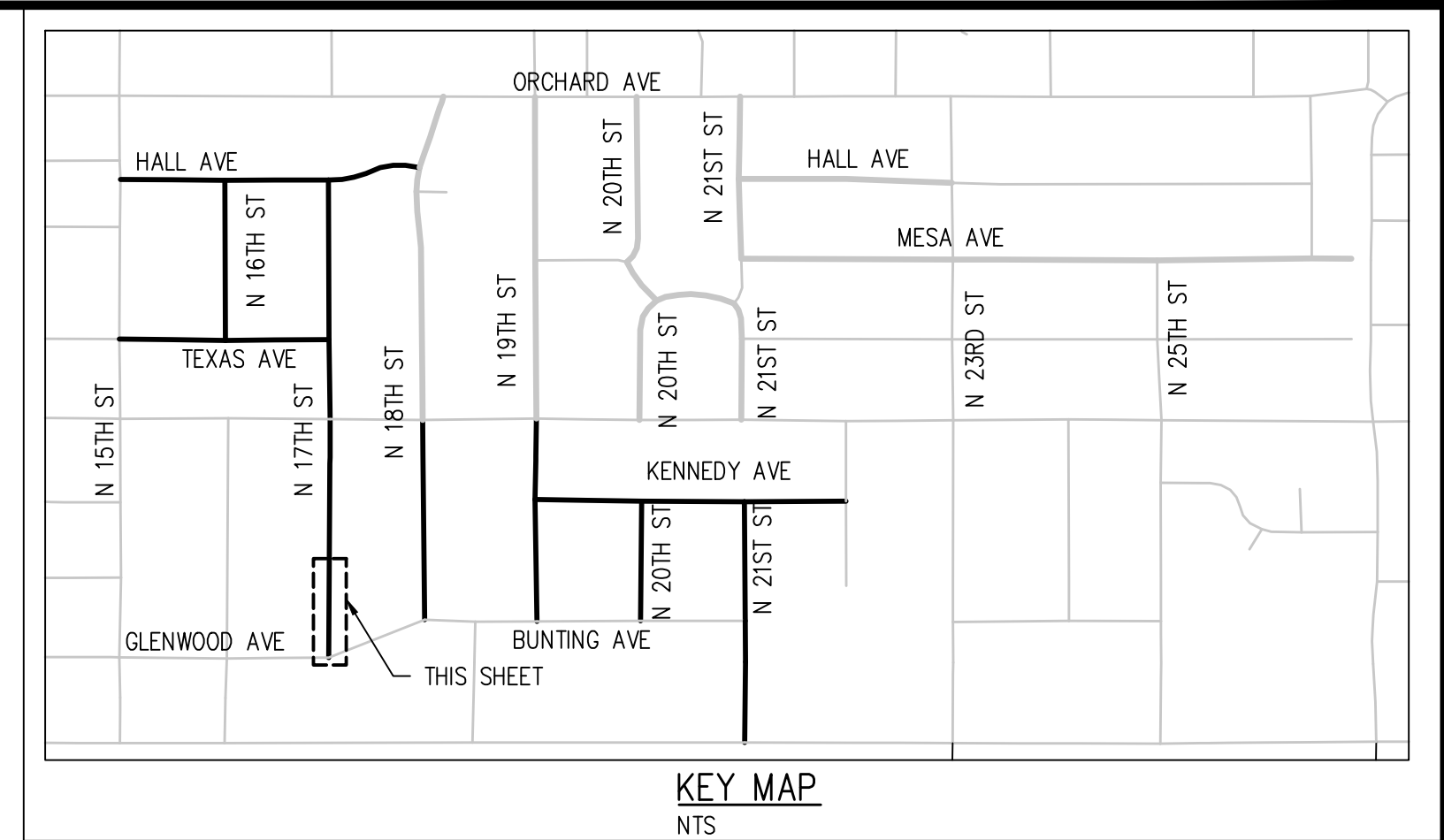
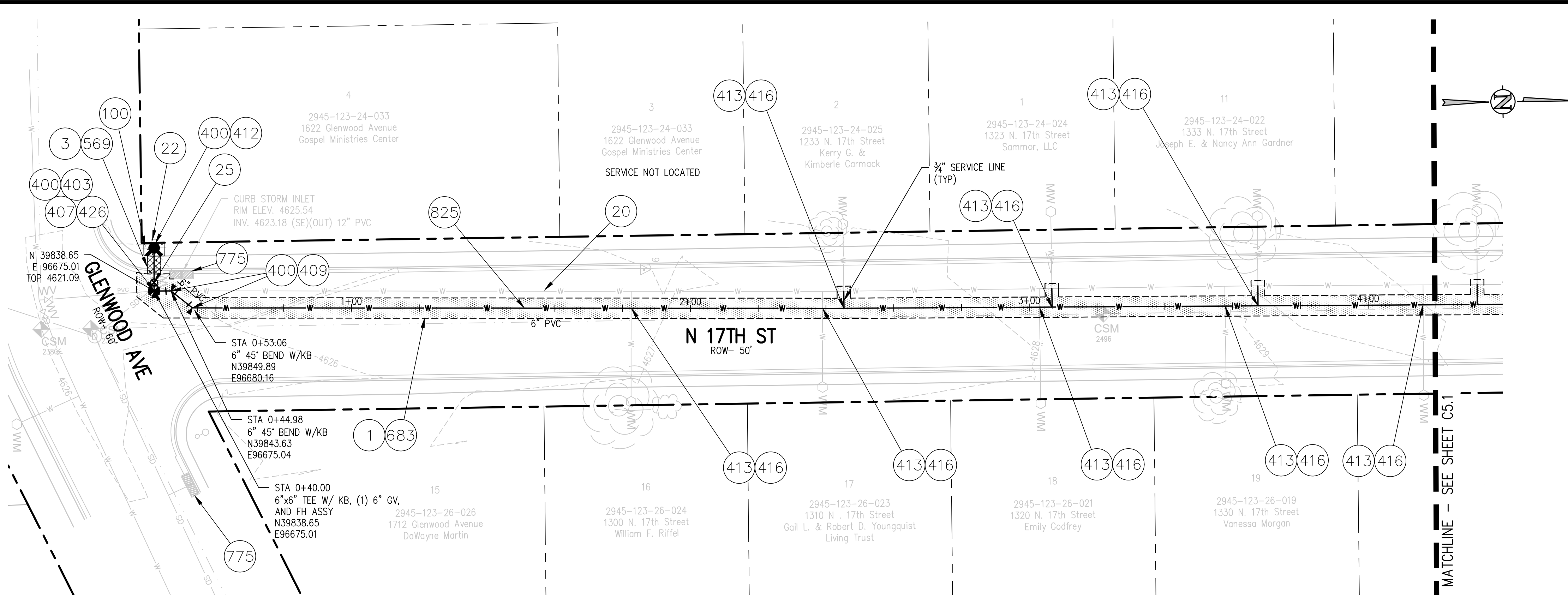
DRAWN BY ZCF DATE 09 22, 2022
 DESIGNED BY LAL/ZCF DATE 09 22, 2022
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 APPROVED BY _____ DATE _____



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 16TH ST WATER PLAN & PROFILE

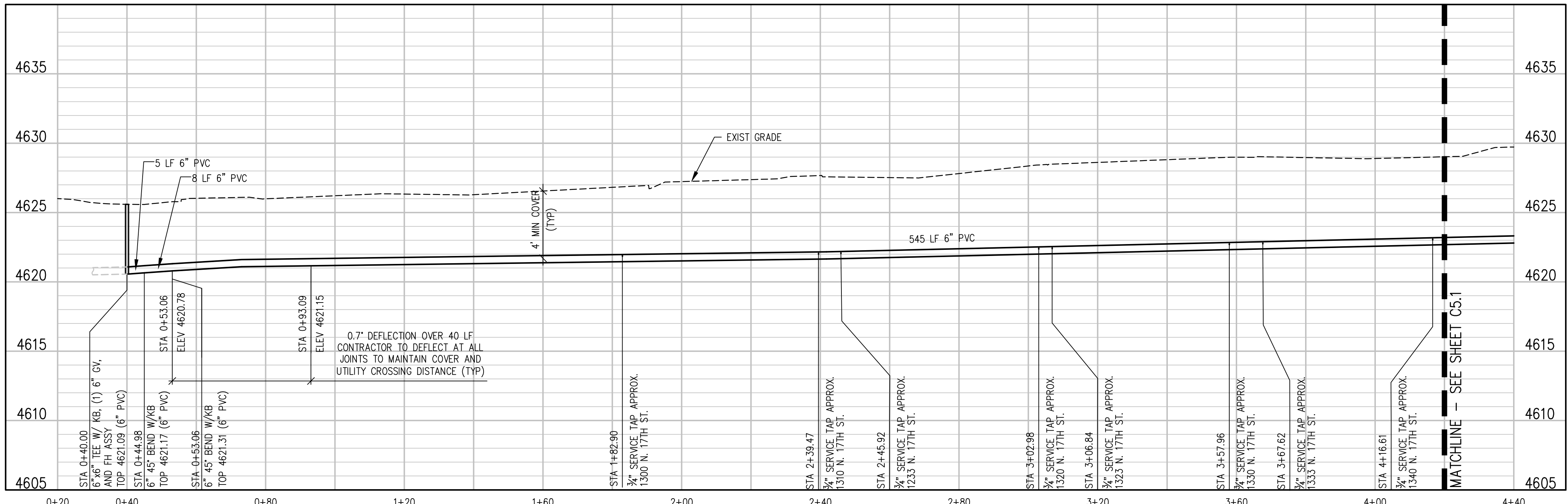
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CONSTRUCTION NOTES

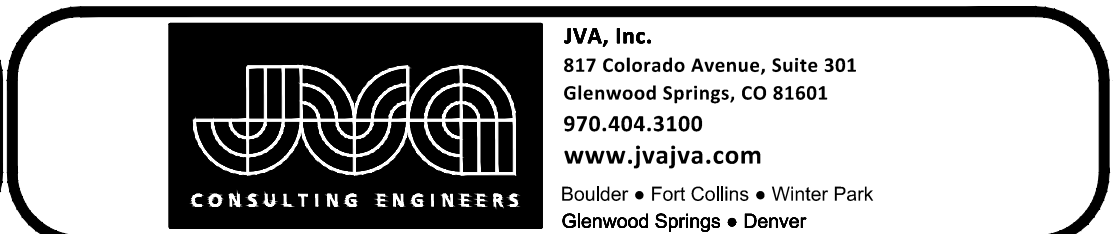
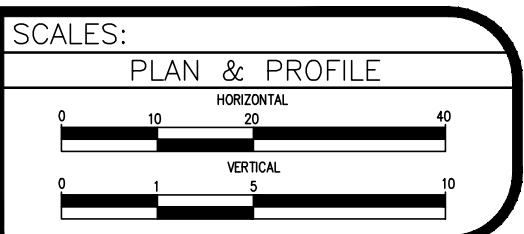
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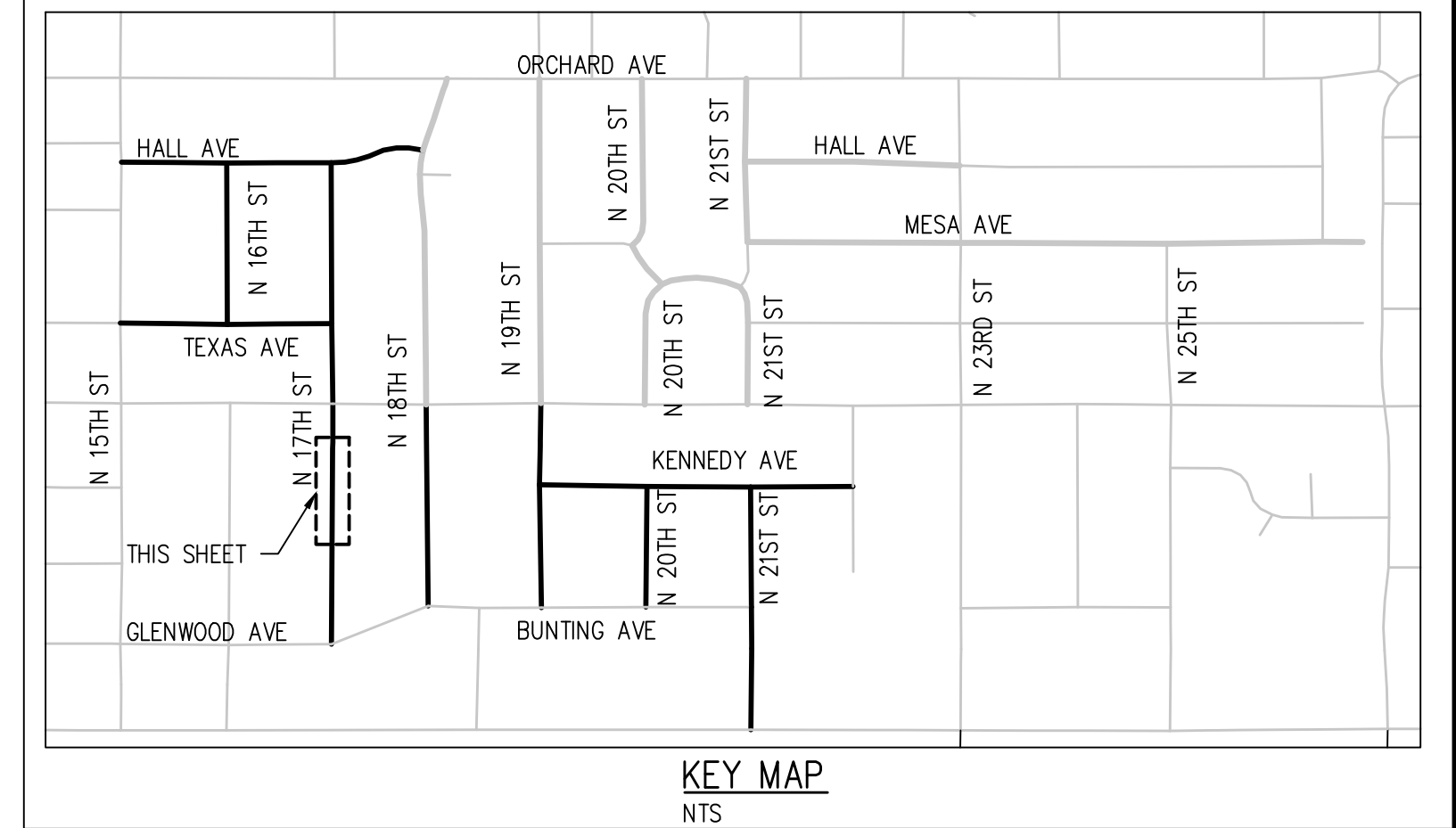
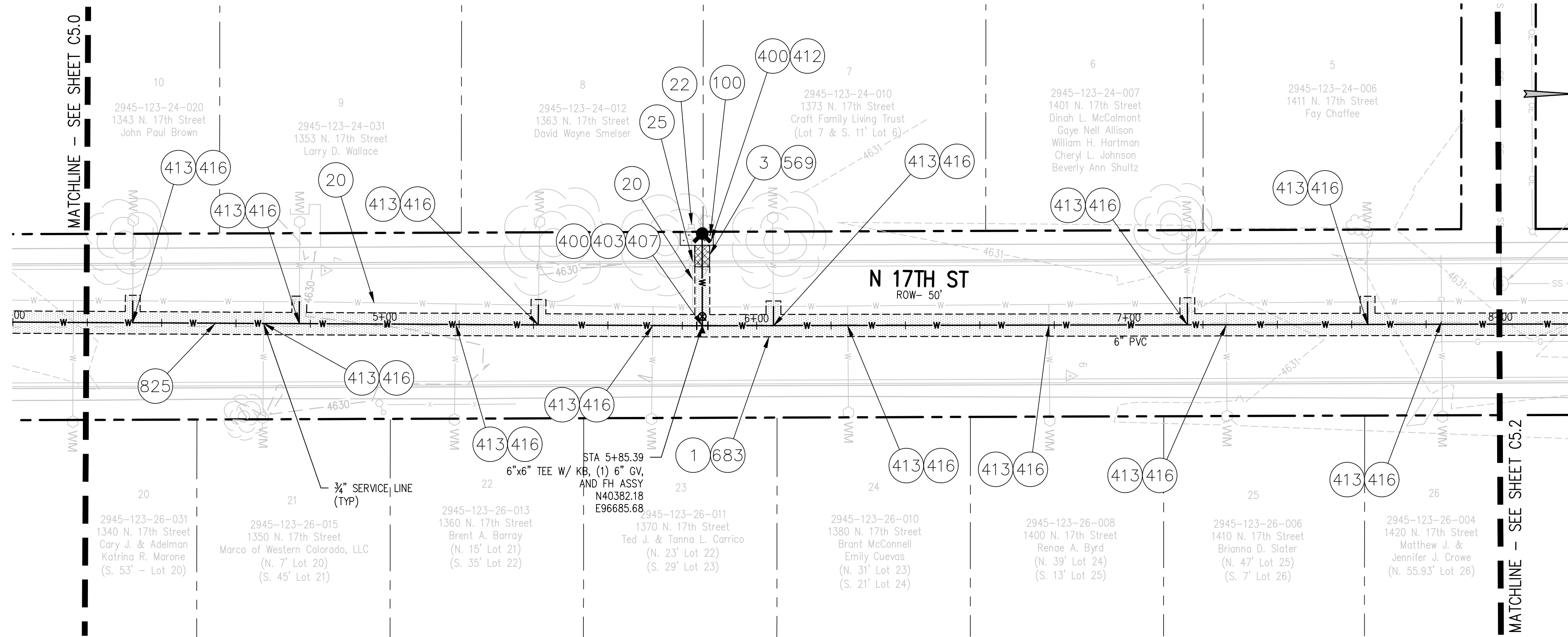


2022 WATERLINE REPLACEMENT PROJECT - PHASE 1

N 17TH ST WATER PLAN & PROFILE

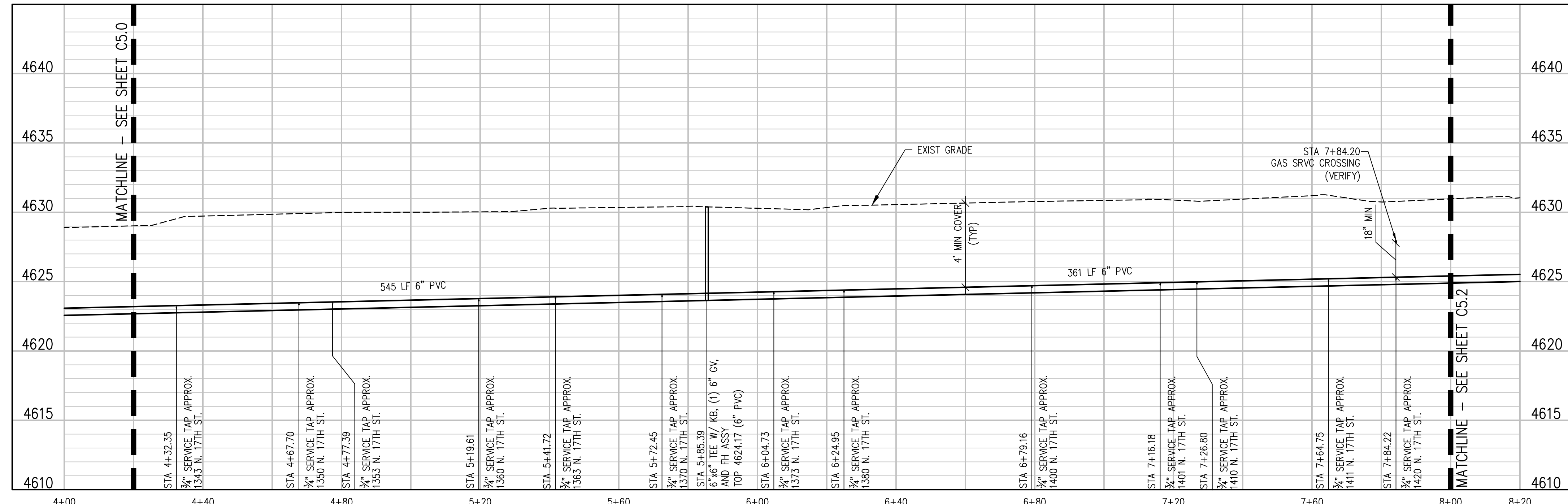
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CONSTRUCTION NOTES

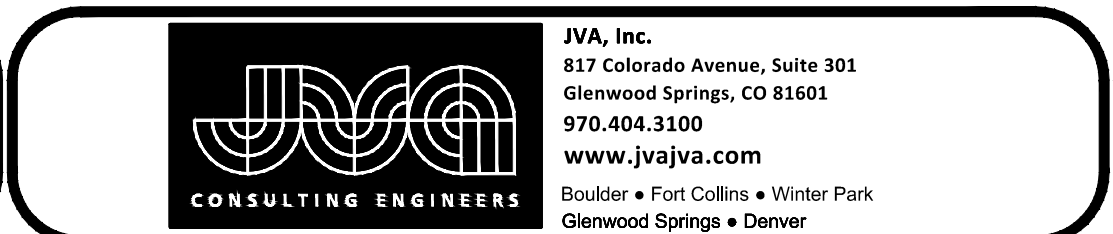
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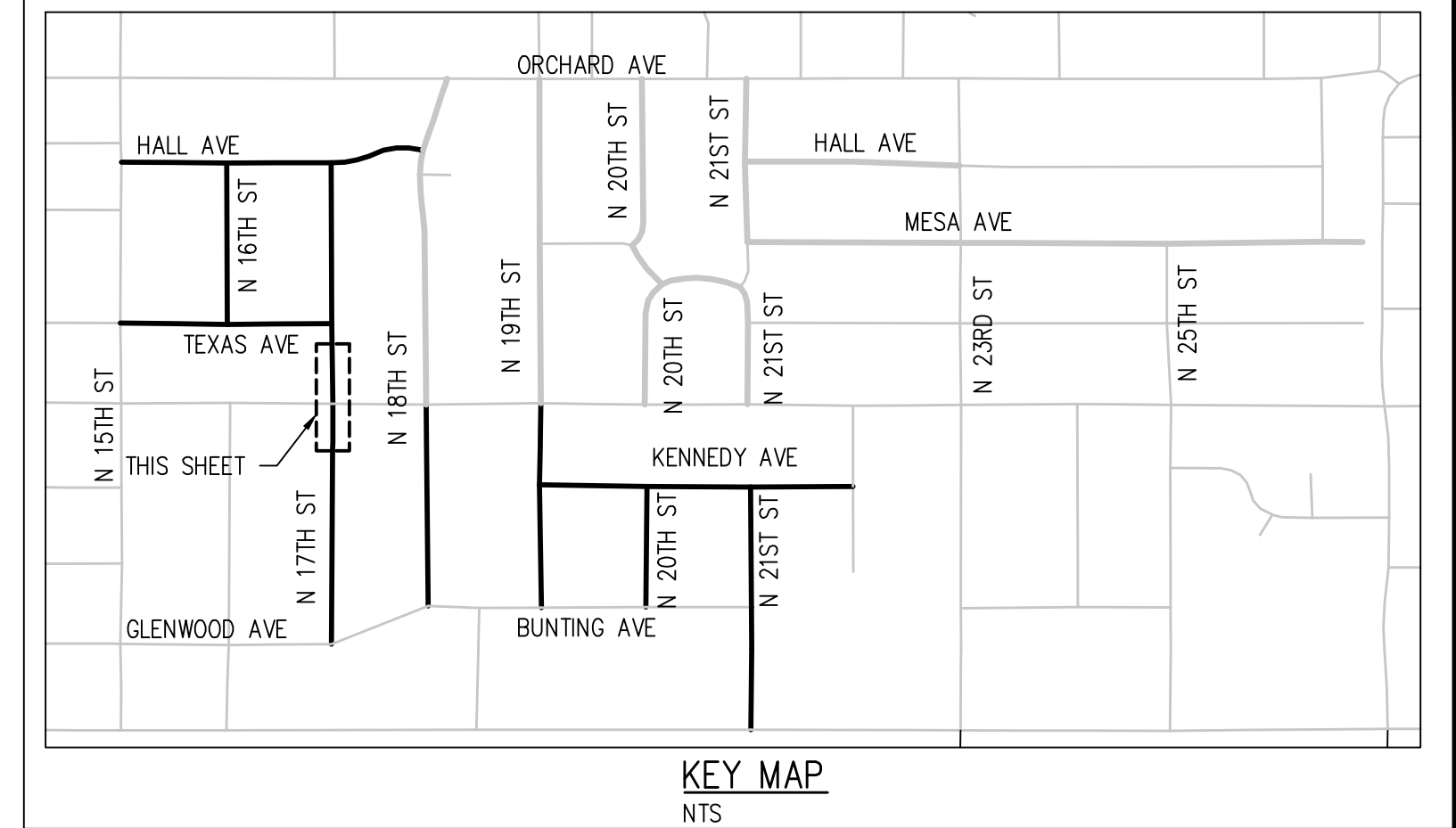
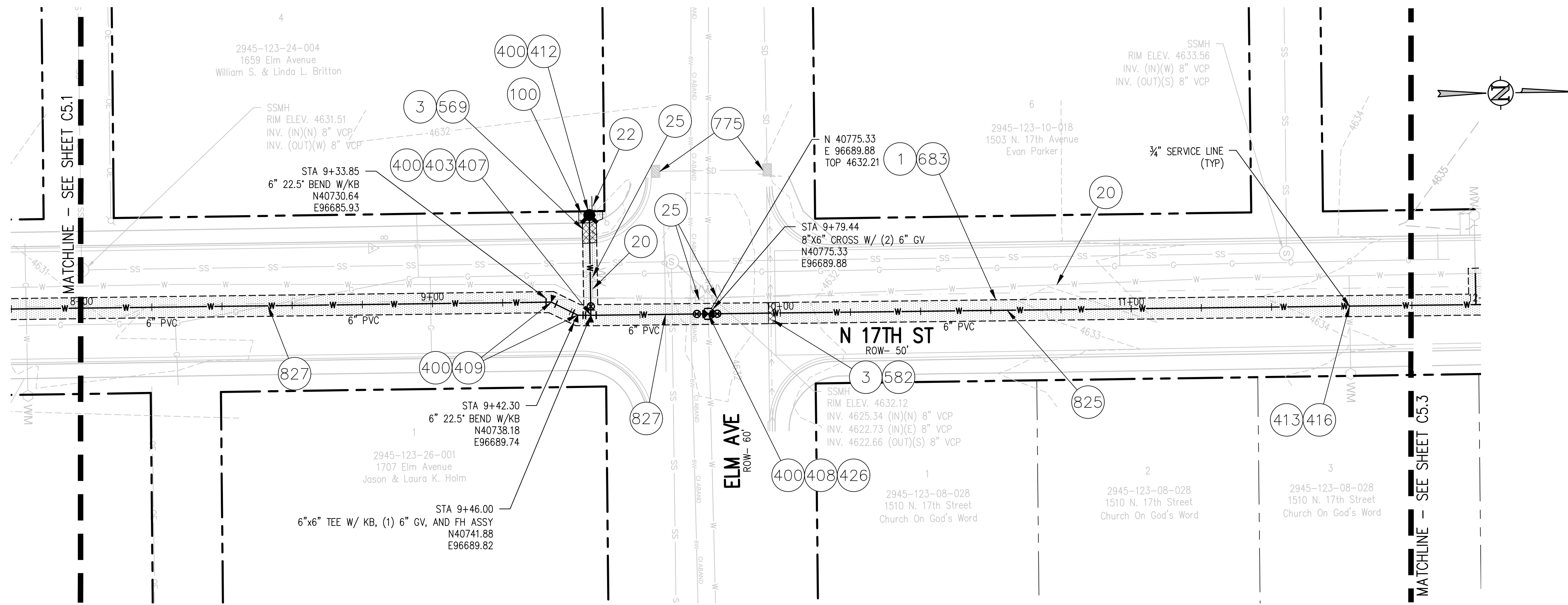
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REVISION			LAL/ZCF	09 22, 2022	HORIZONTAL
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REVISION					



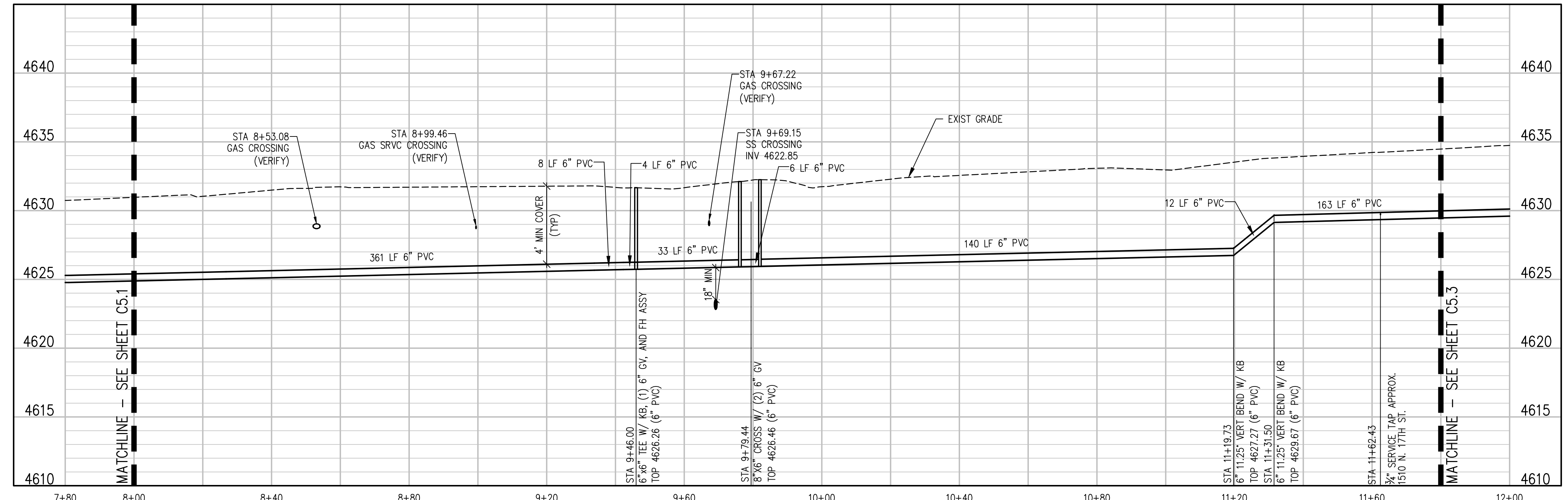
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
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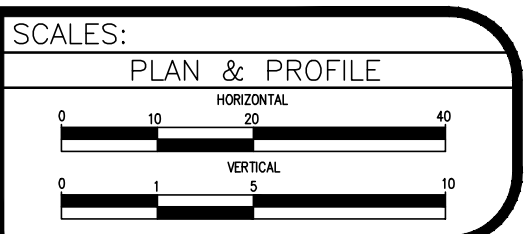
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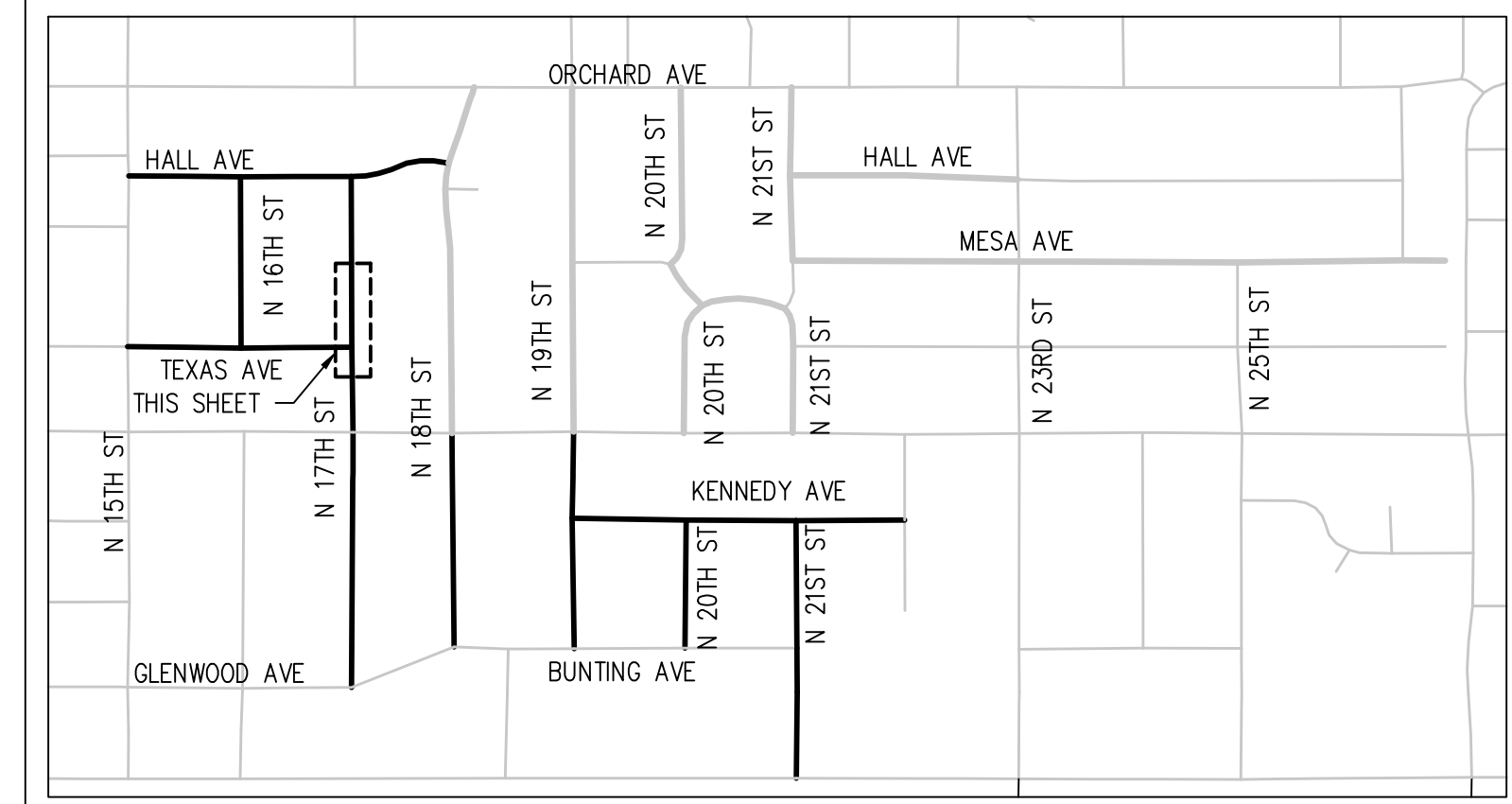
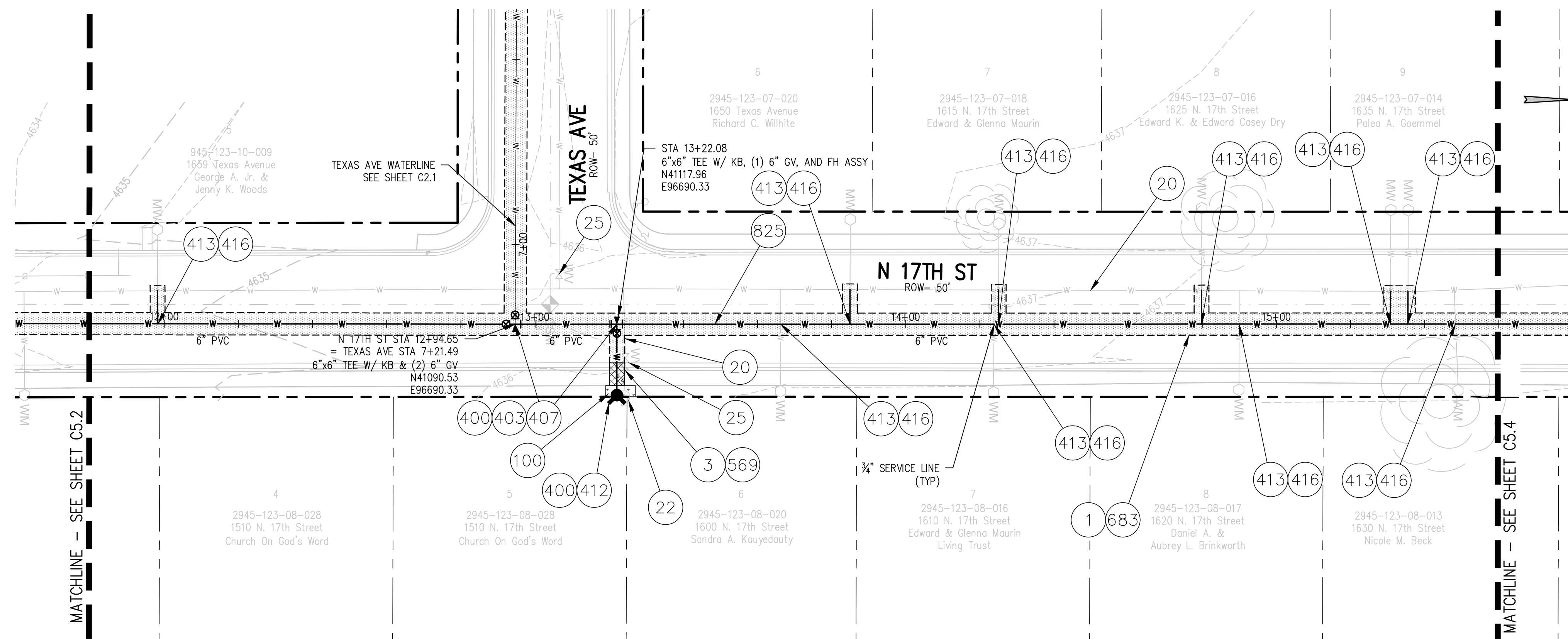
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3			JJM	09 22, 2022
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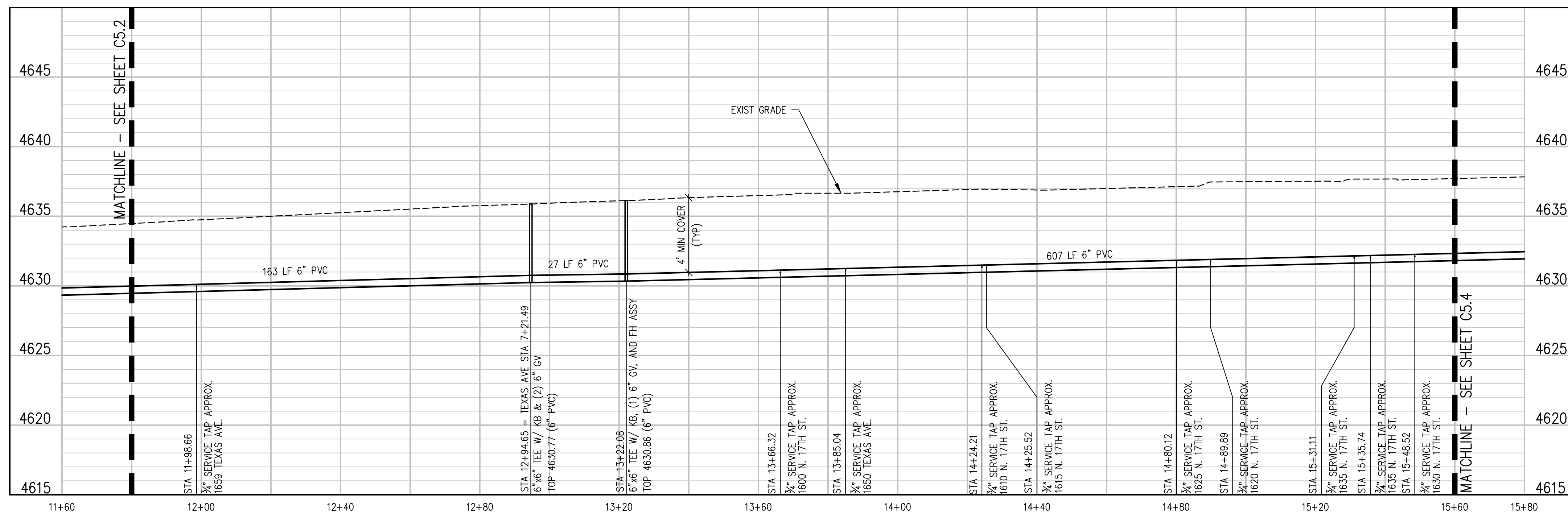
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 17TH ST WATER PLAN & PROFILE

C5.2



CONSTRUCTION NOTES

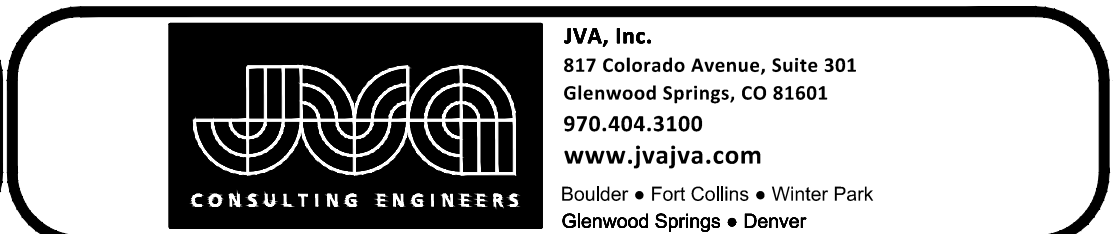
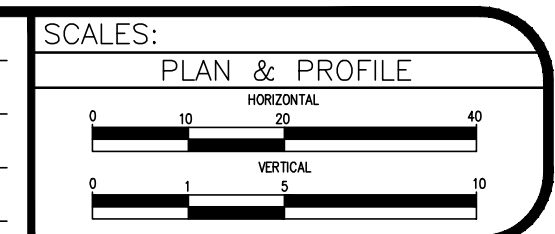
- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
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- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, CLOSE CORP STOPS, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
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- 412 102.8A/108.3 - FIRE HYDRANT
- 413 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- 416 102.8J/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (5' WIDE)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



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REVISION	DESCRIPTION	DATE
ADDENDUM 1	CONSTRUCTION NOTE 416	9/29/2022

DRAWN BY	ZCF	DATE	09 22, 2022
DESIGNED BY	LAL/ZCF	DATE	09 22, 2022
CHECKED BY	JJM	DATE	09 22, 2022
APPROVED BY		DATE	

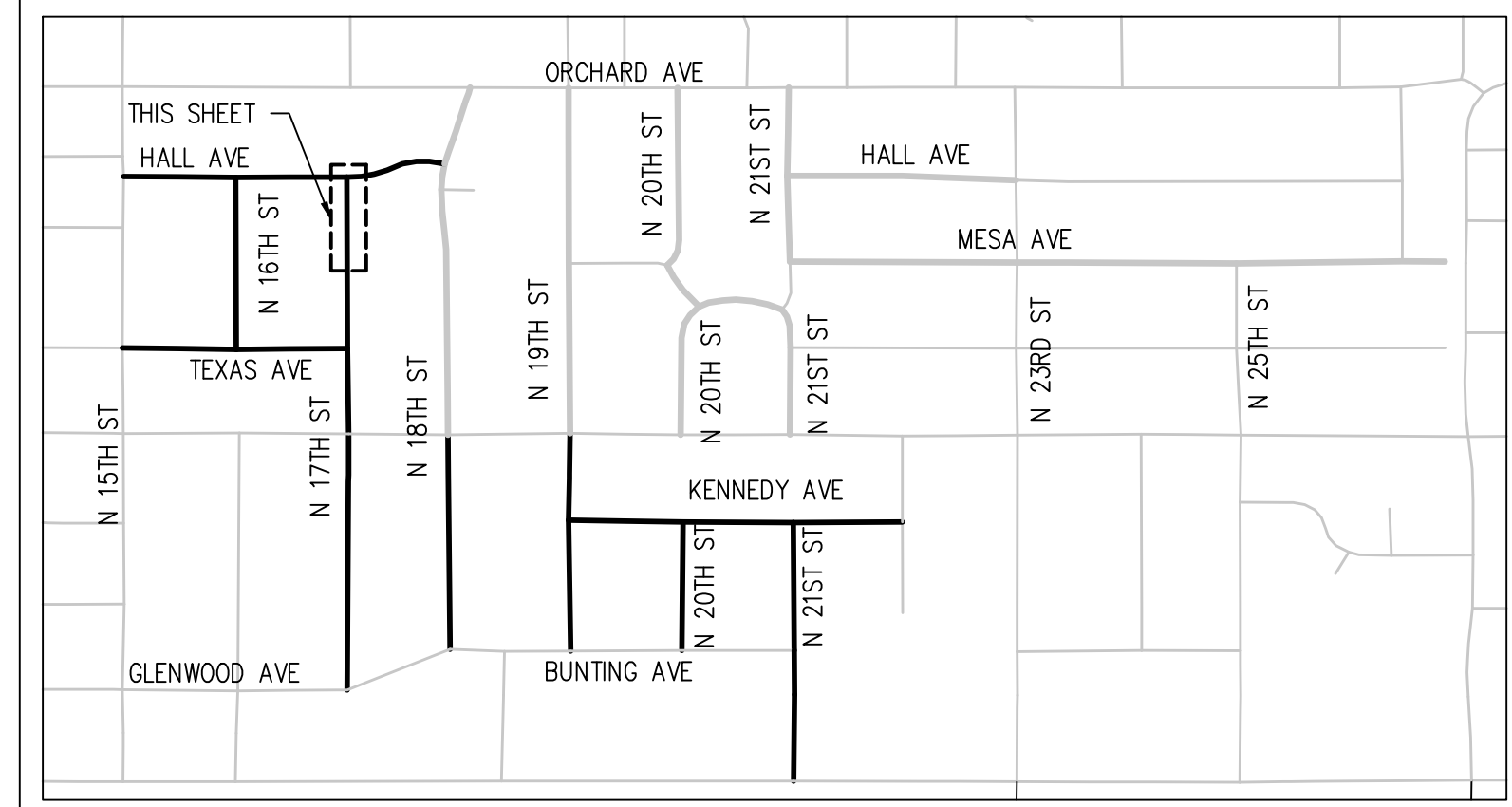
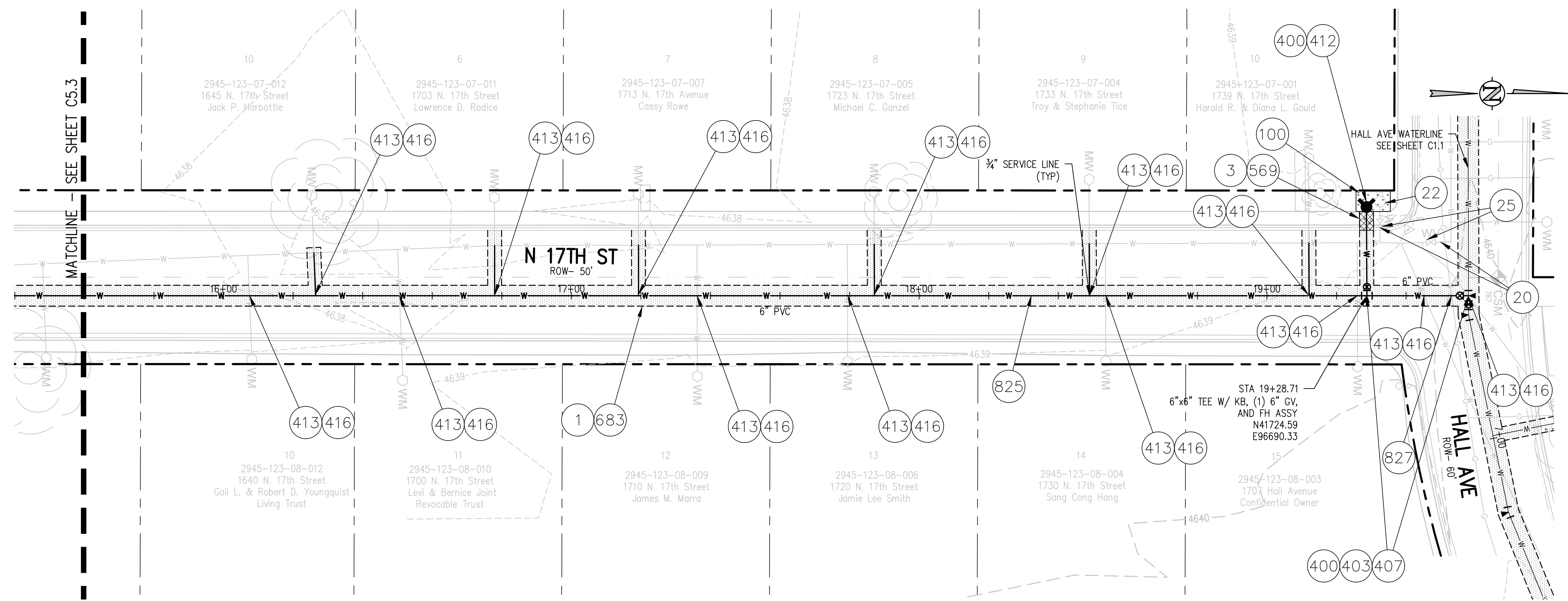


2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 17TH ST WATER PLAN & PROFILE

C5.3

NOTES:

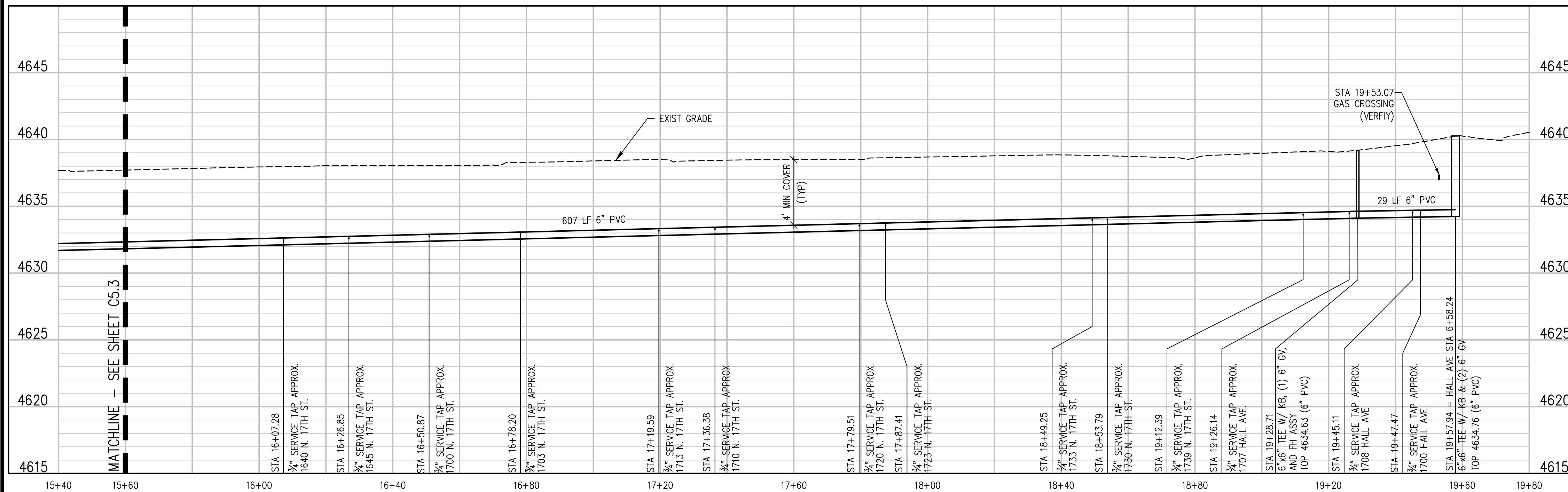
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KEY MAP
NTS

CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
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- 827 PROTECT EXISTING GAS.

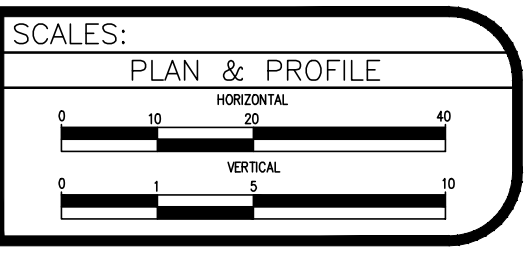


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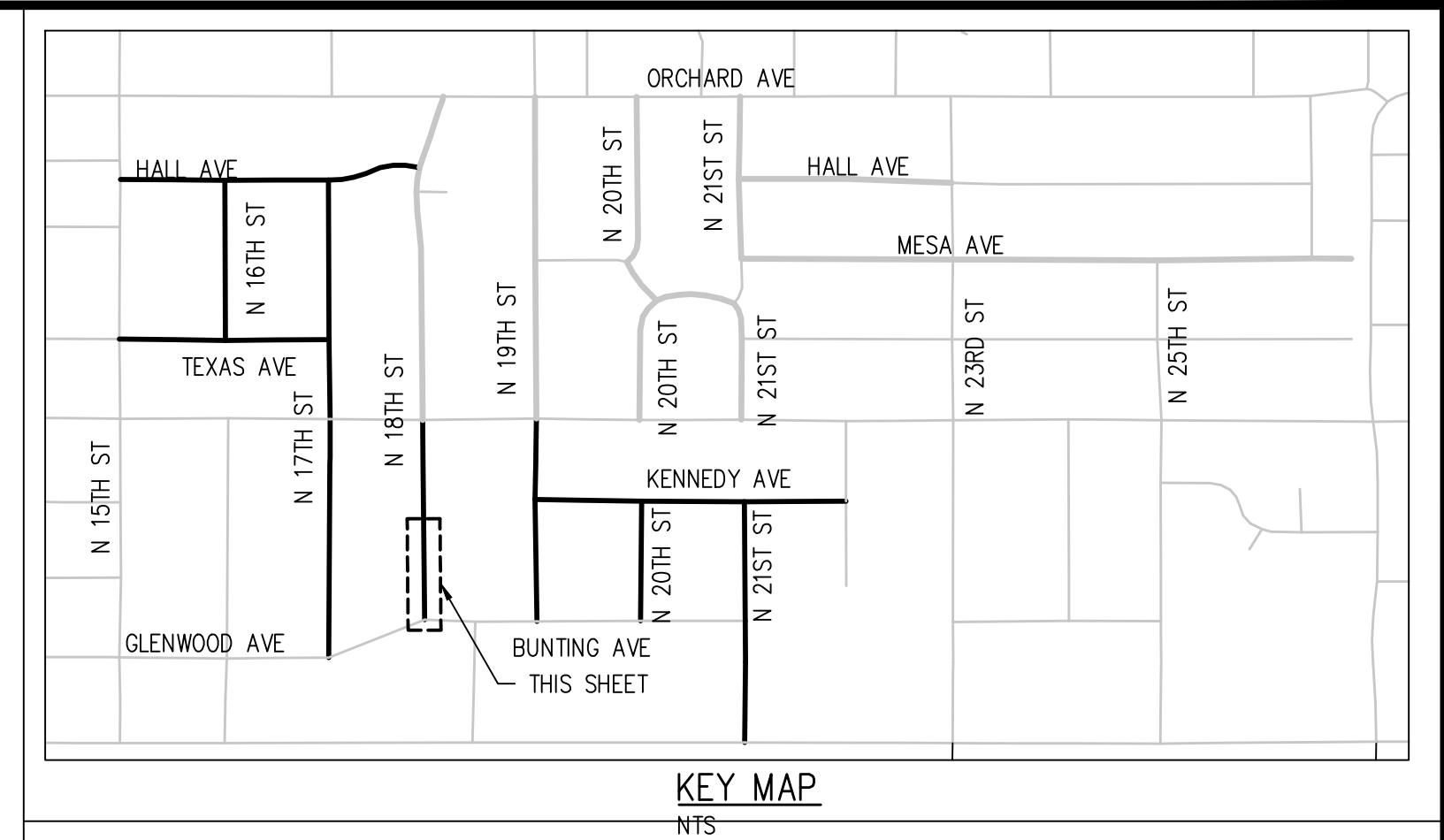
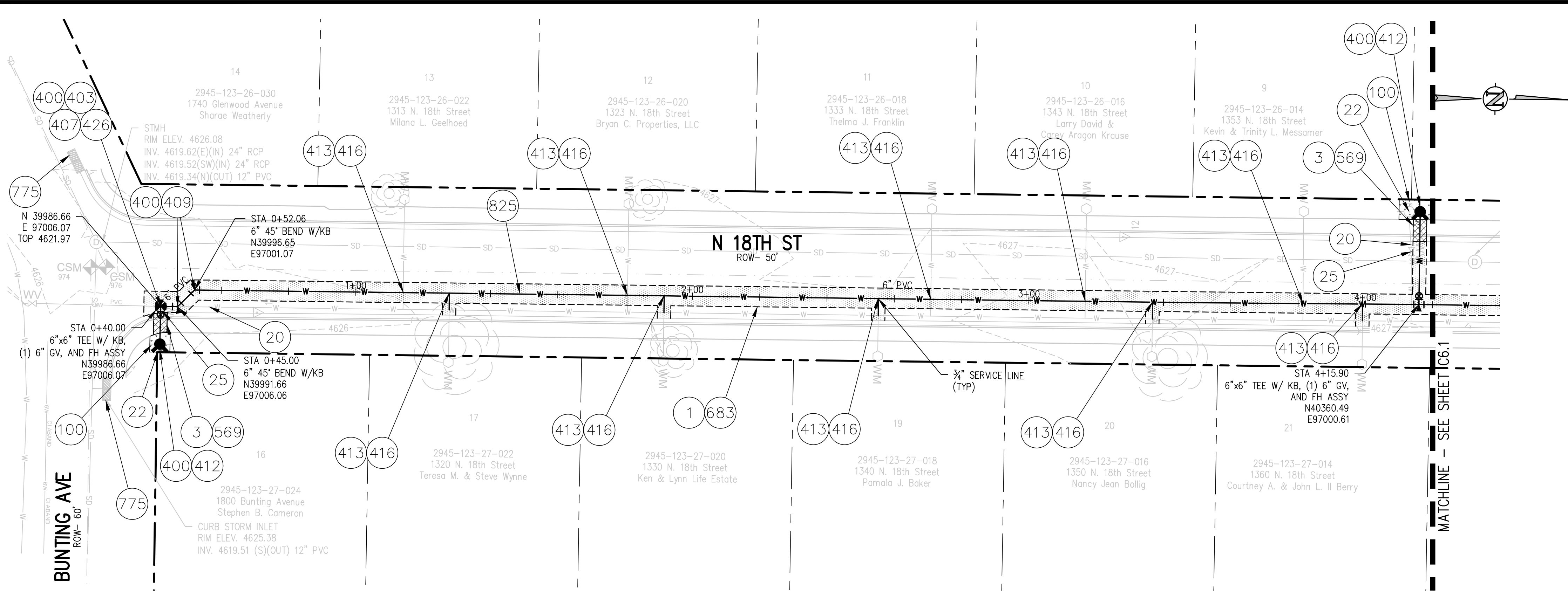
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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2			LAL/ZCF	09 22, 2022
3			JJM	09 22, 2022
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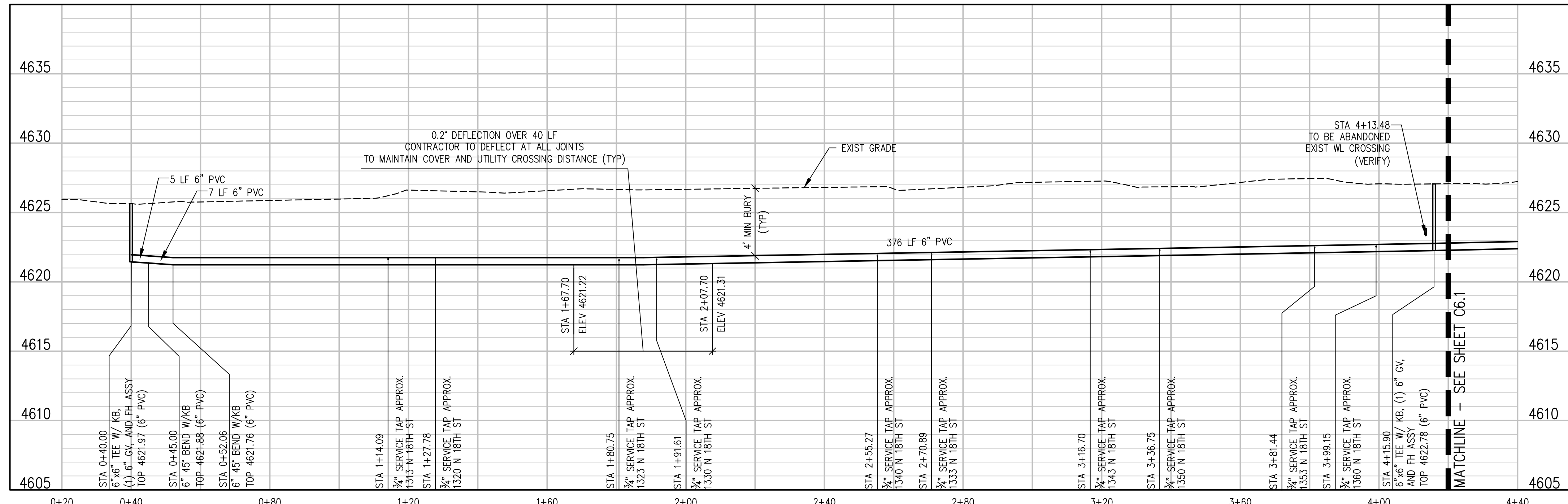
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 17TH ST WATER PLAN & PROFILE

C5.4



CONSTRUCTION NOTES

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- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.

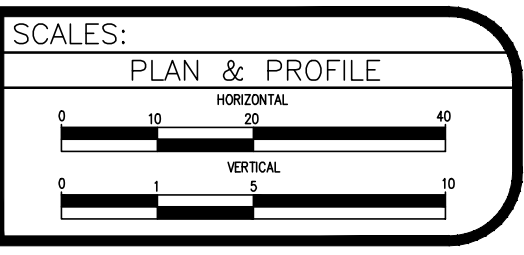


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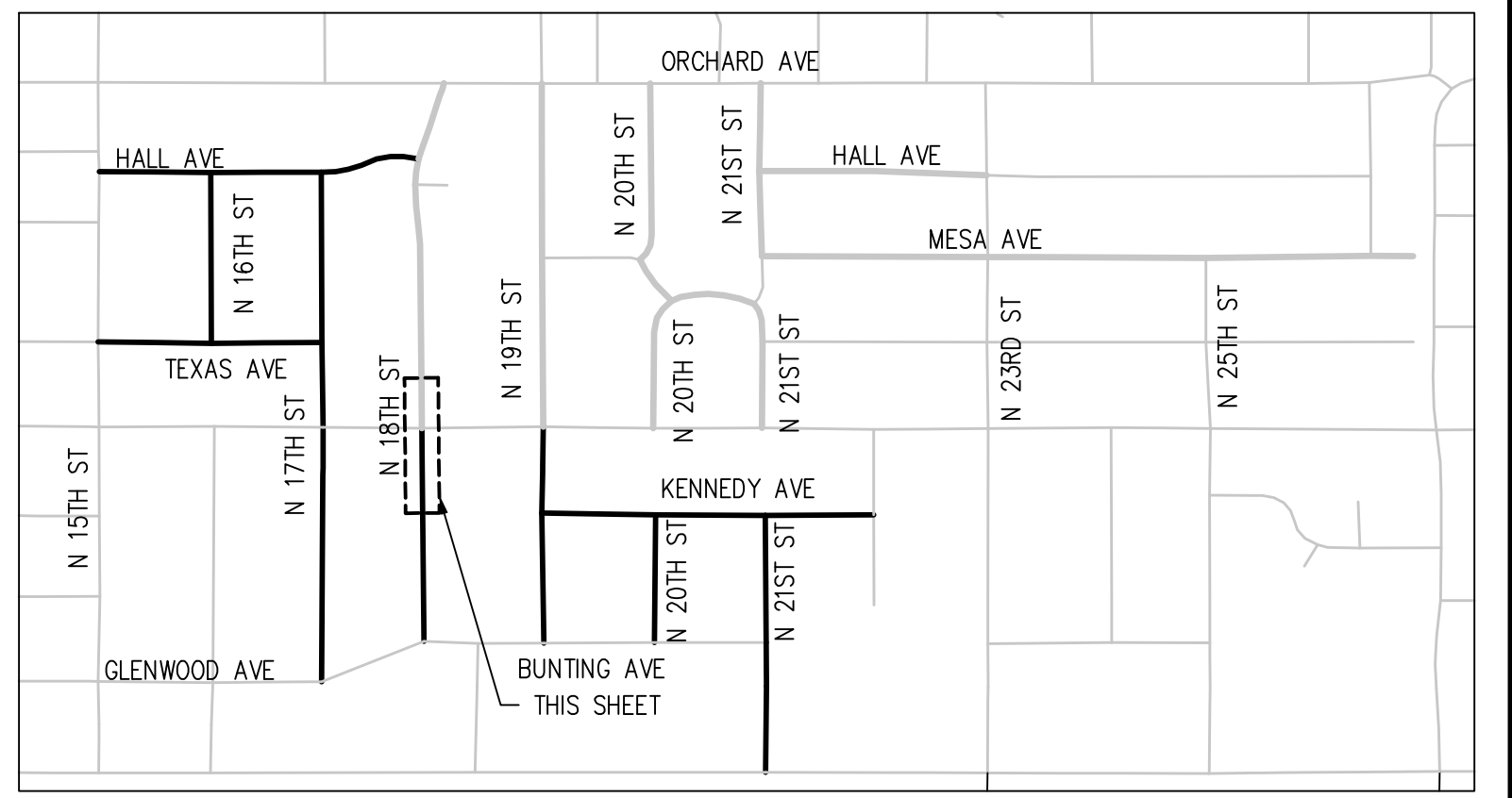
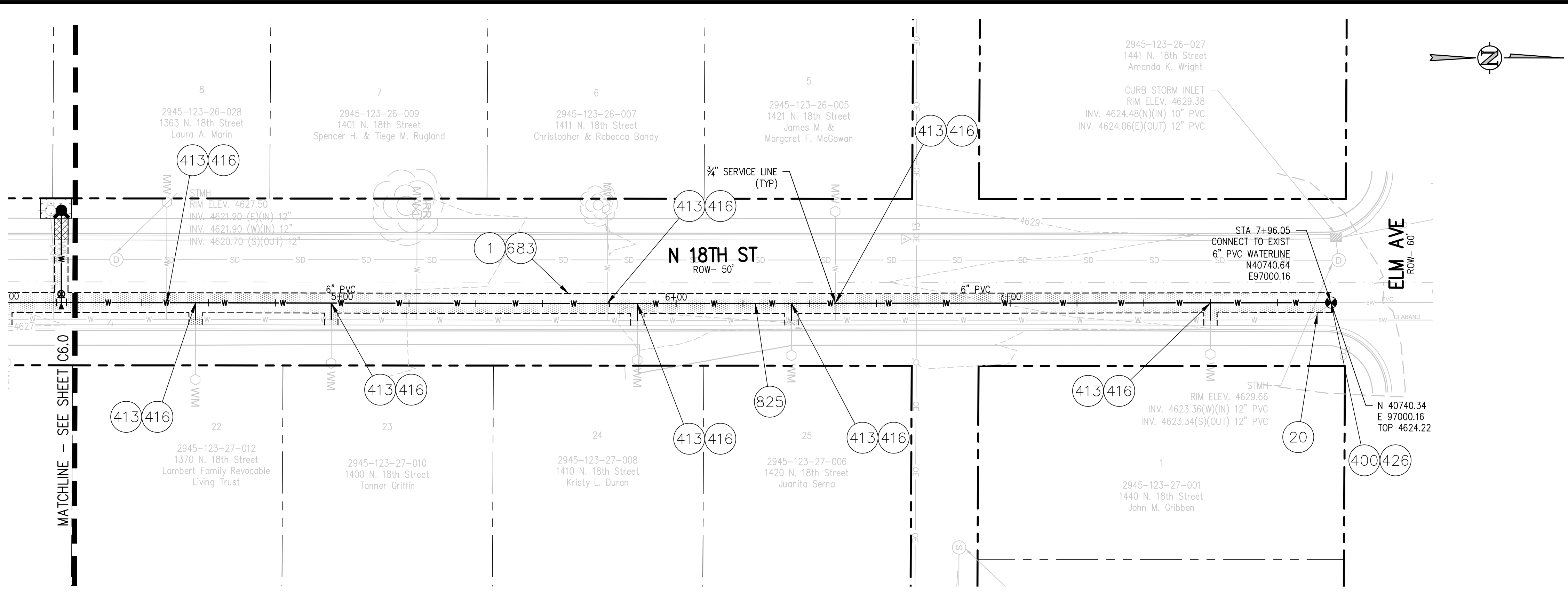
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1	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
2			LAL/ZCF	09 22, 2022
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2022 WATERLINE REPLACEMENT PROJECT - PHASE 1

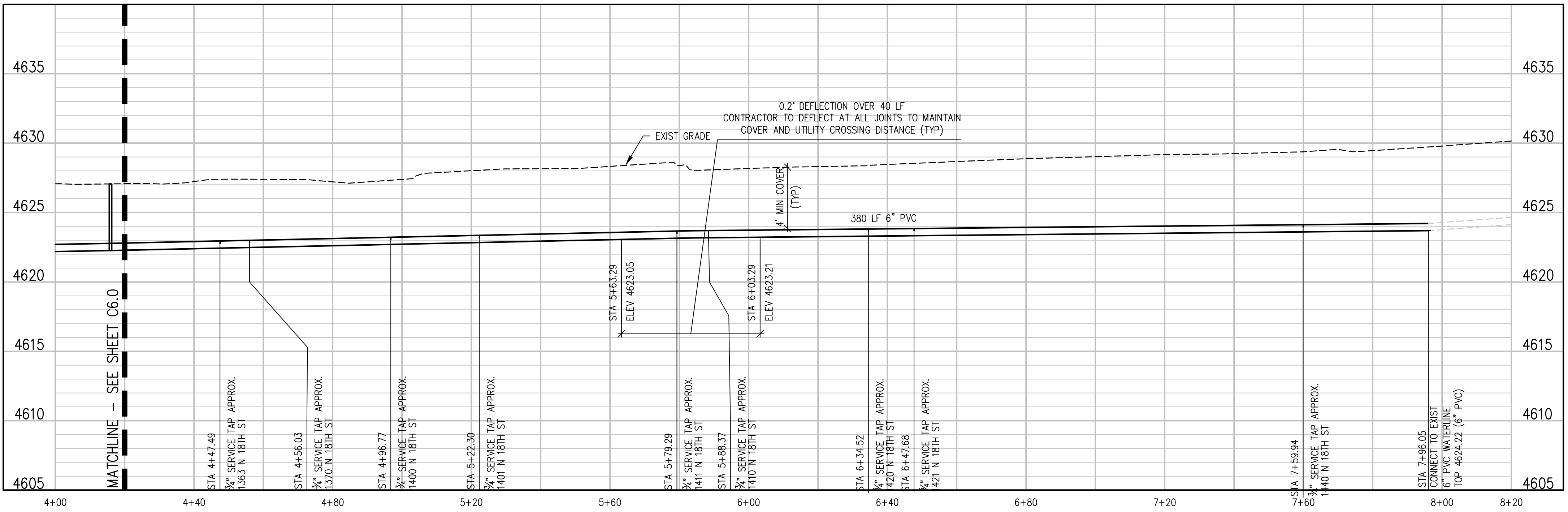
N 18TH ST WATER PLAN & PROFILE

C6.0



CONSTRUCTION NOTES

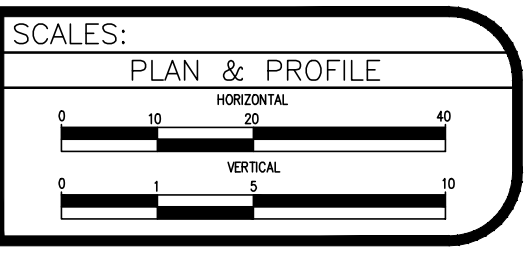
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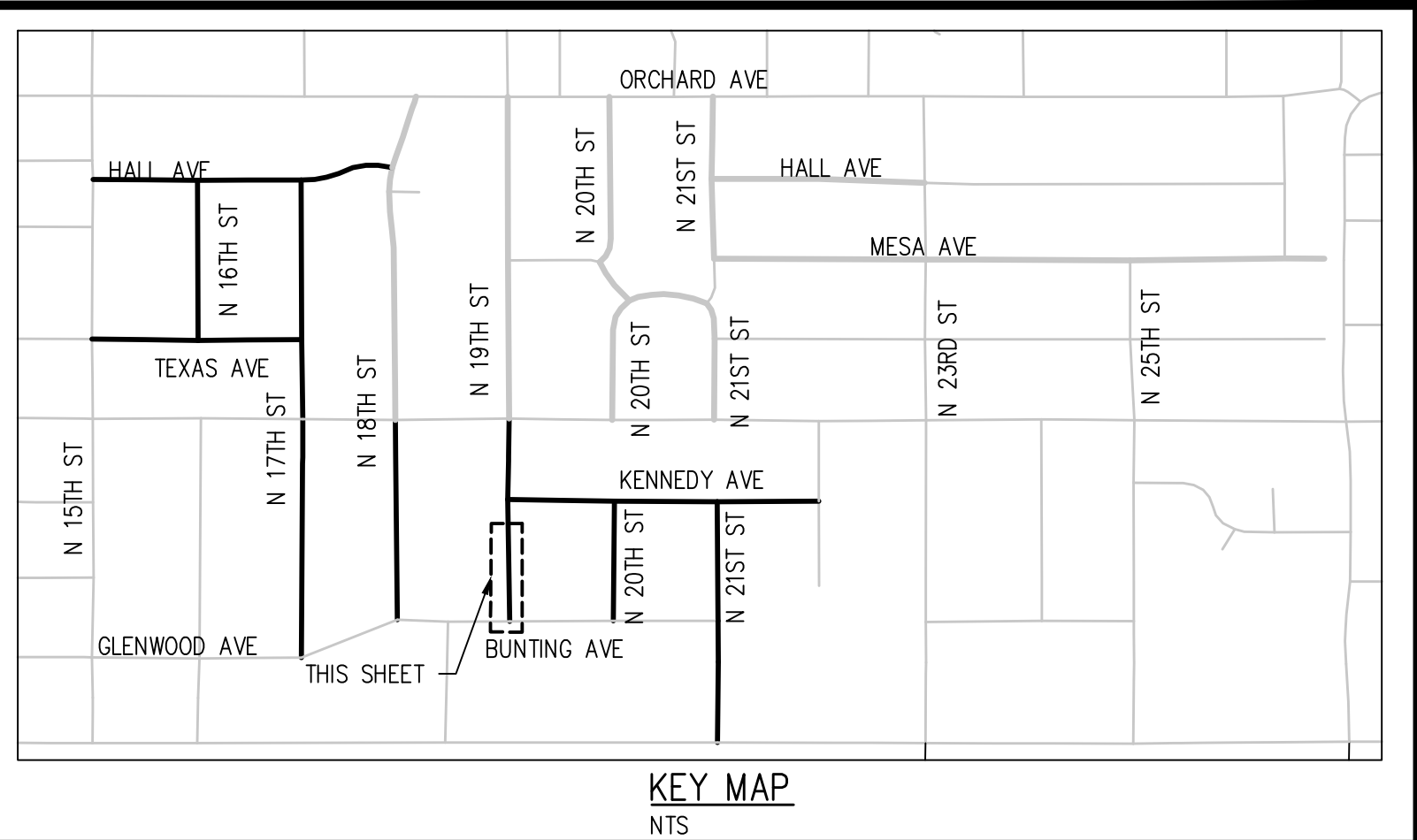
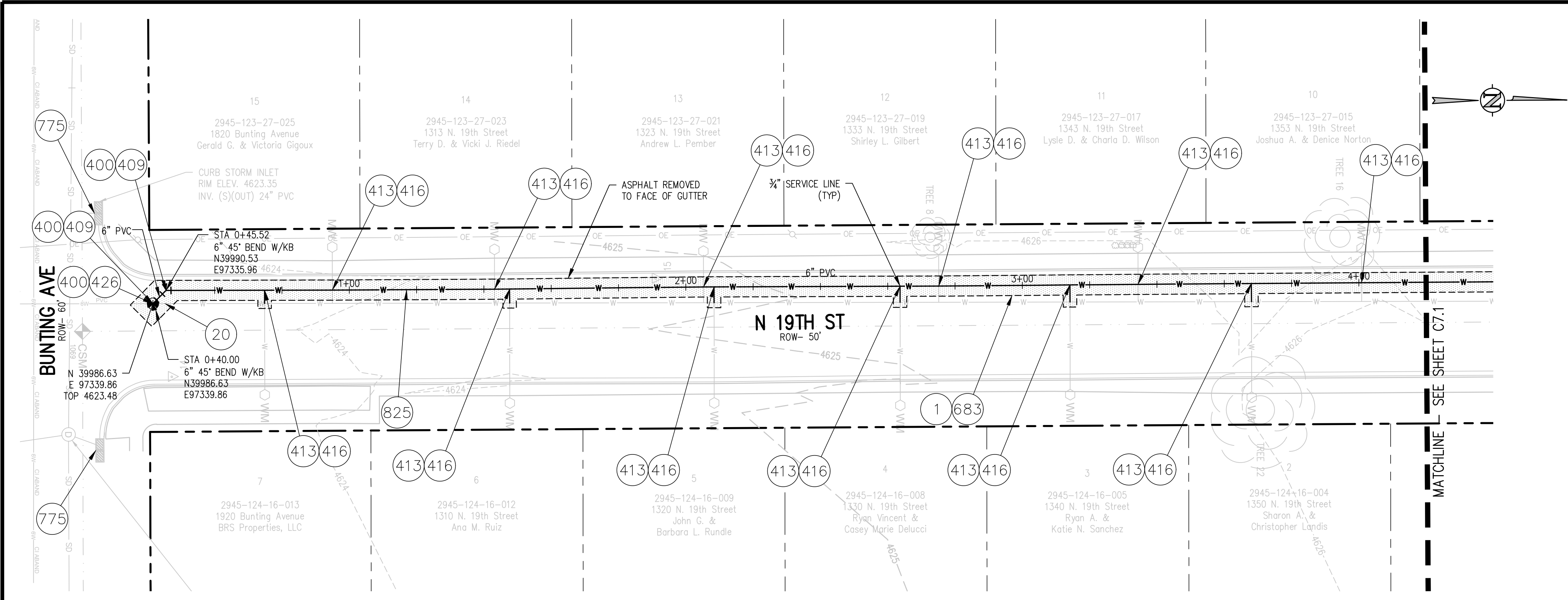
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REVISION			LAL/ZCF	09 22, 2022
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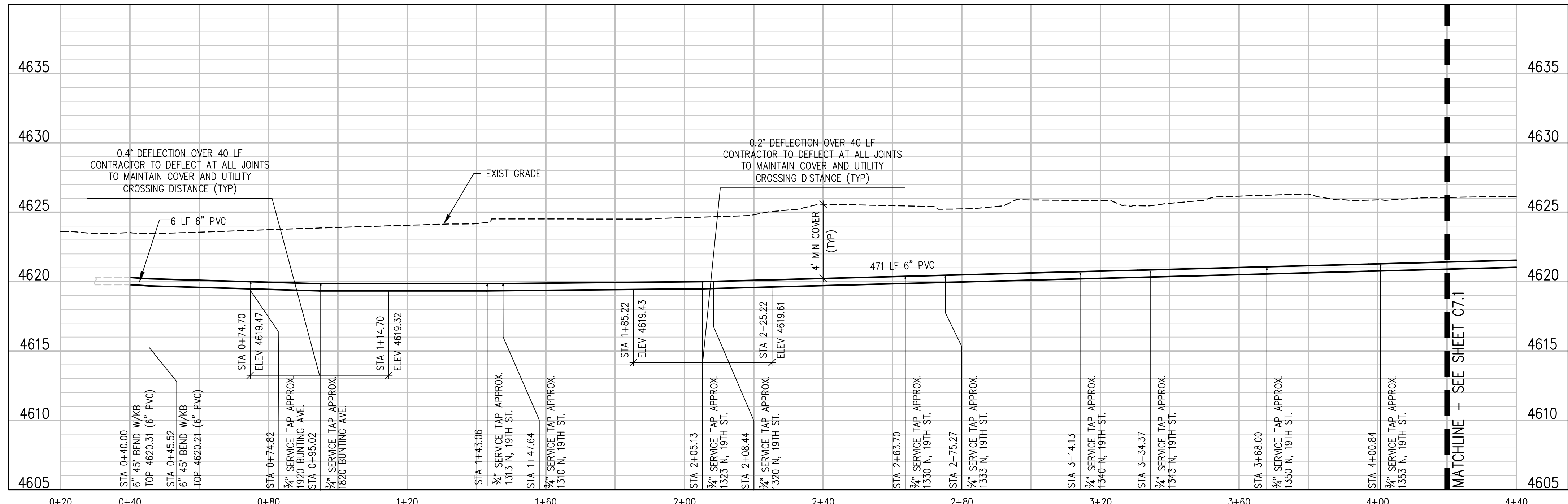
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 18TH ST WATER PLAN & PROFILE

C6.1



CONSTRUCTION NOTES

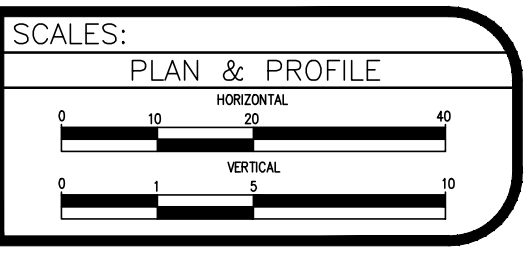
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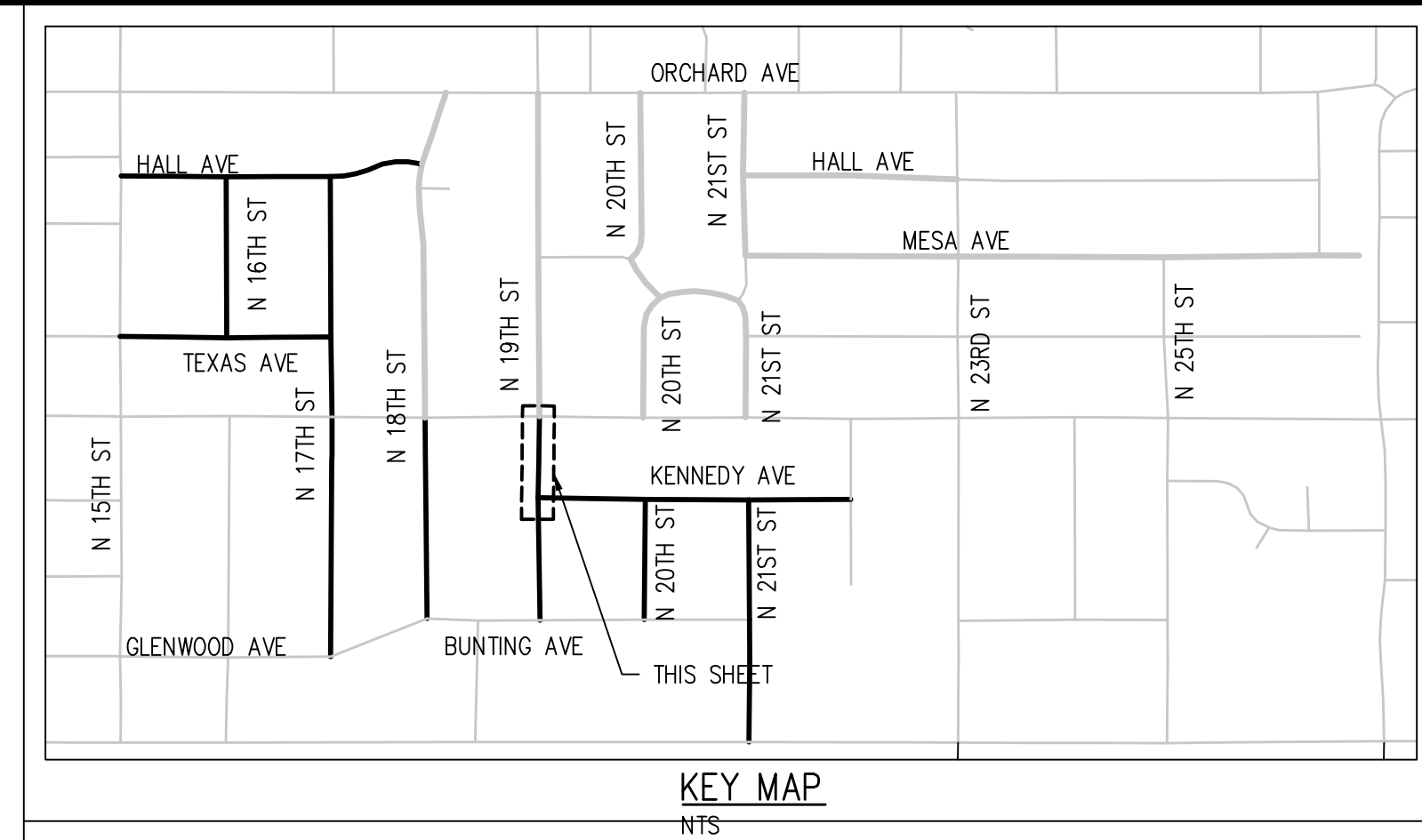
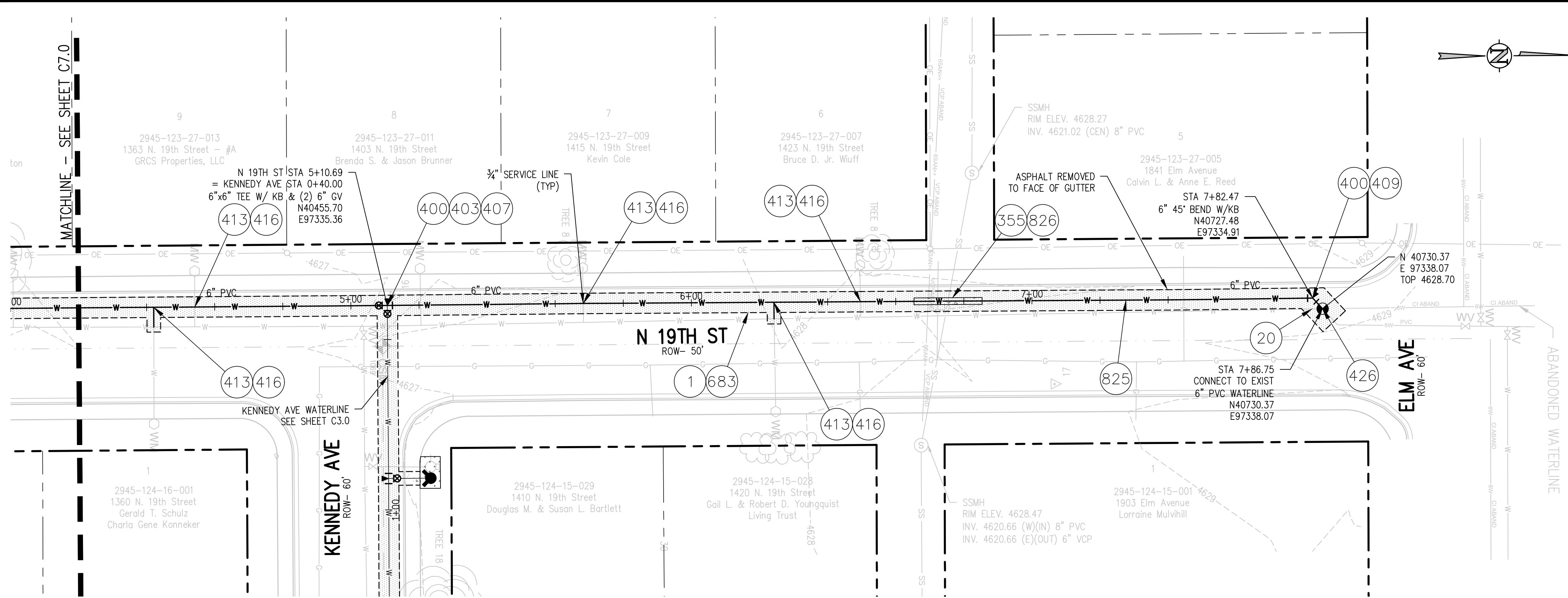
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REVISION 3			JJM	09 22, 2022
REVISION 4				



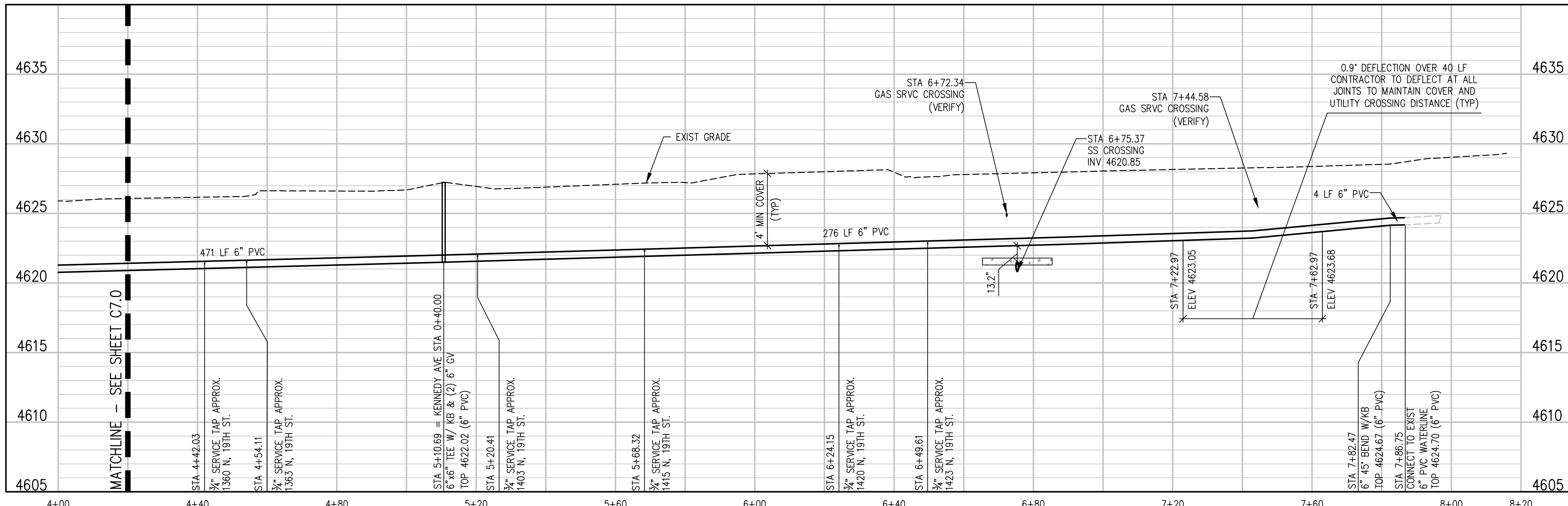
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 19TH ST WATER PLAN & PROFILE

C7.0



CONSTRUCTION NOTES

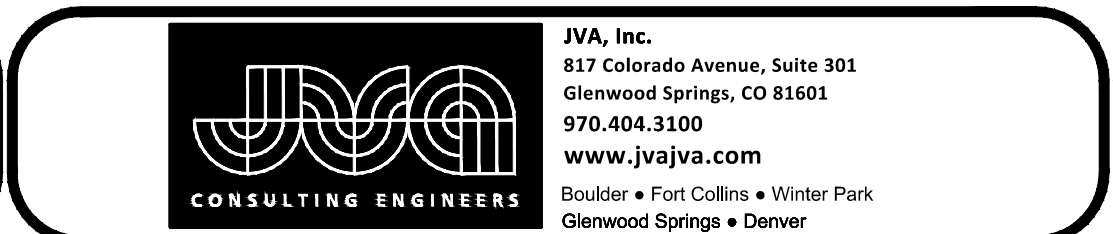
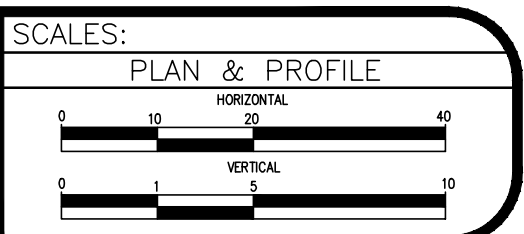
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- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
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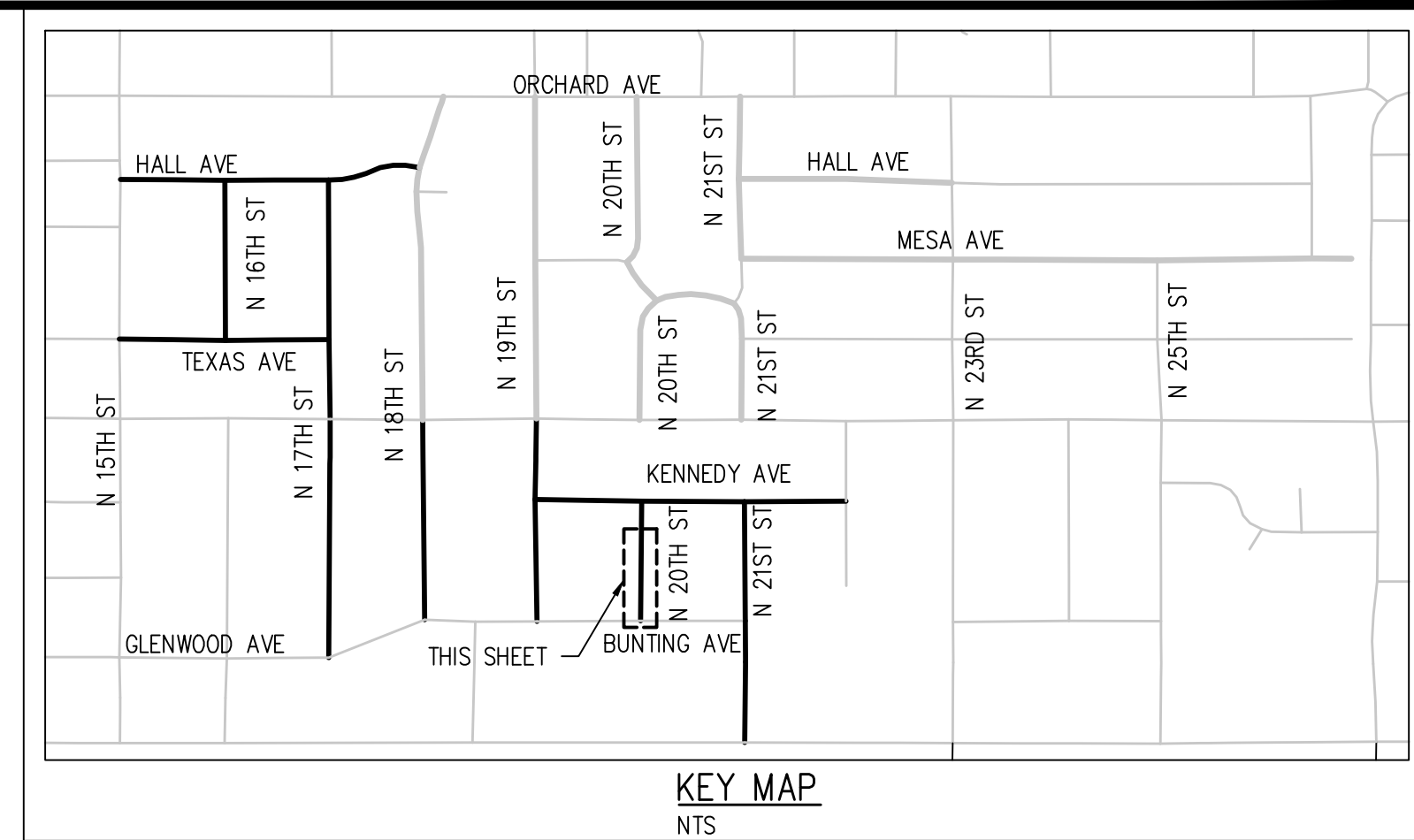
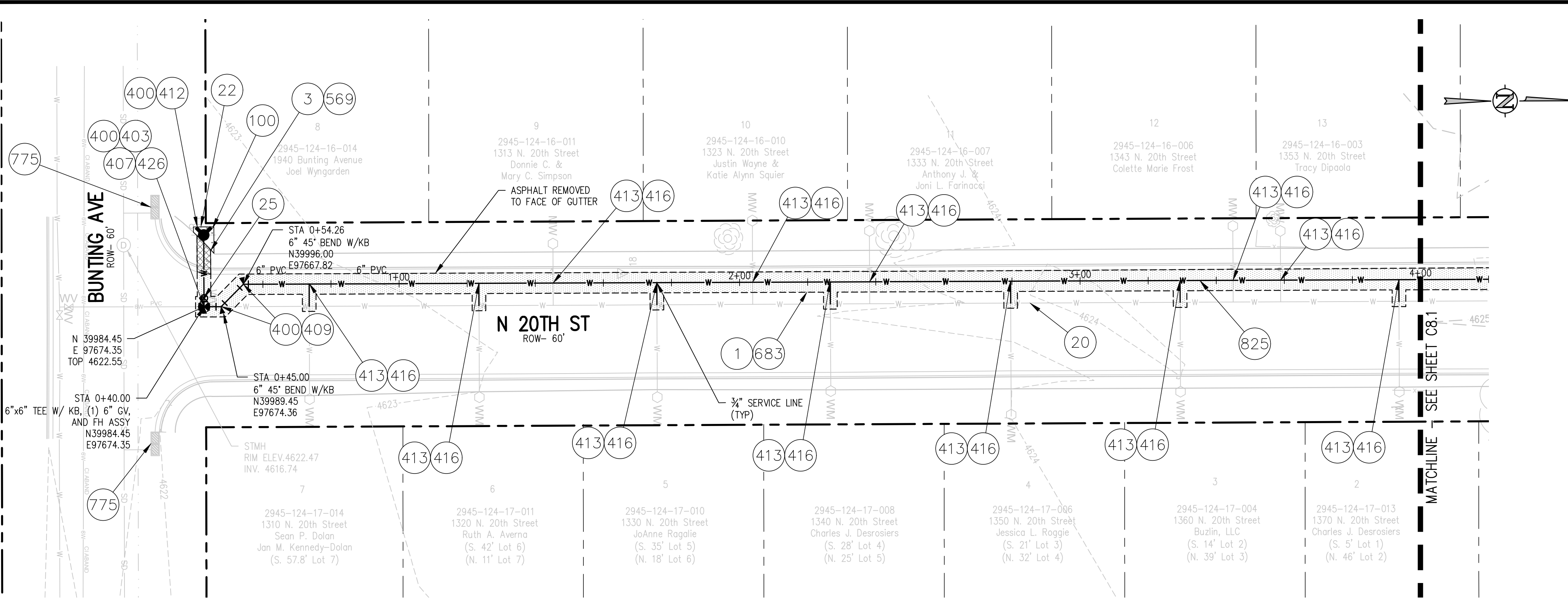
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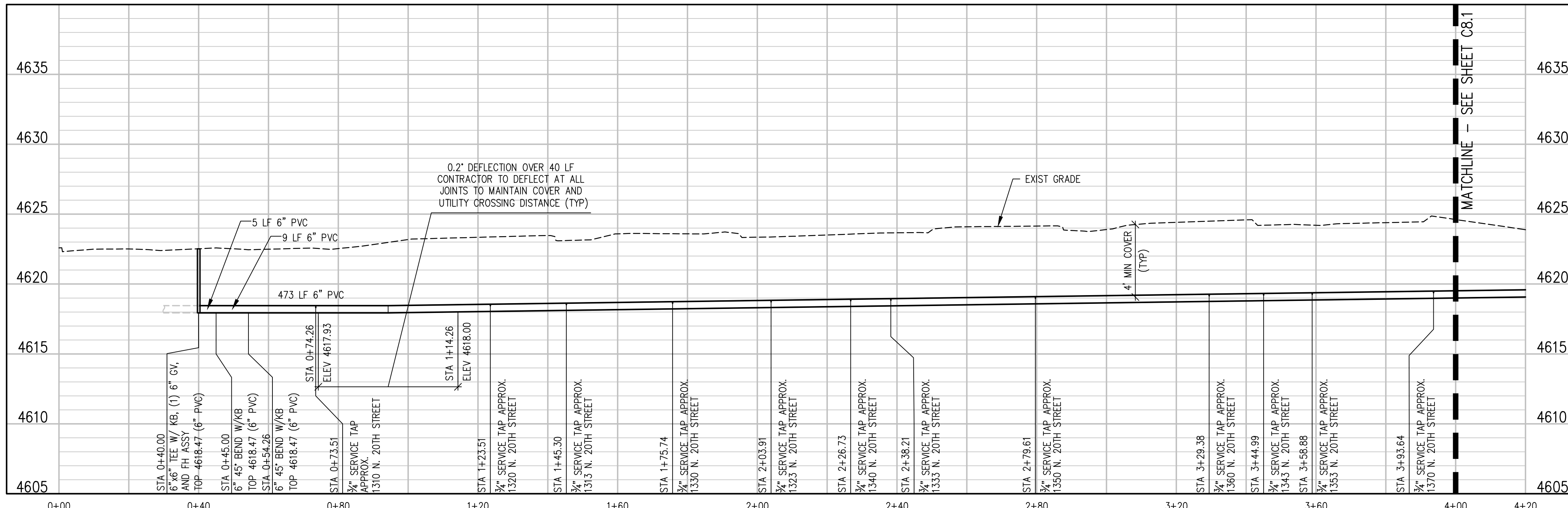
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
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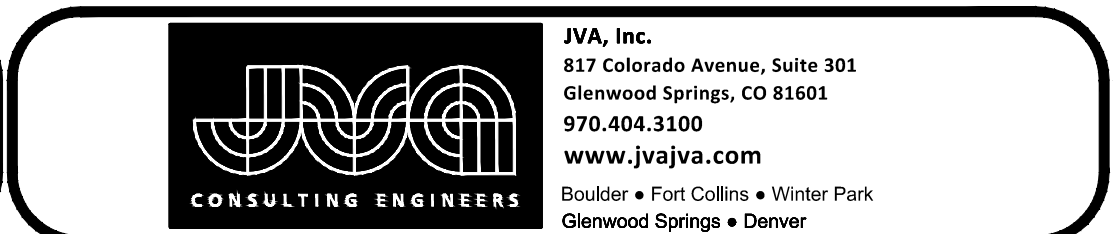
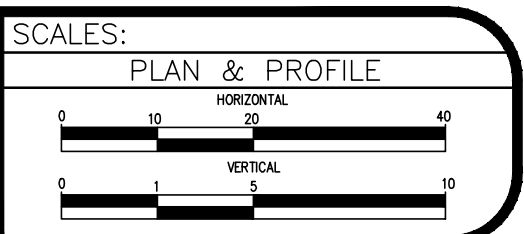
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- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
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- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 412 102.8A/108.3 - FIRE HYDRANT
- 413 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) THE CONTRACT UNIT PRICE FOR WATER SERVICE PIPE SHALL INCLUDE THE COST OF CONNECTION TO WATERLINE INCLUDING ALL MATERIALS TO MAKE THE CONNECTION AND CLOSING ORIGINAL CORPORATION STOP.
- 416 102.8J/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (5' WIDE)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (4" THICK ON TOP OF 6" ABC) (GRADING SX, BINDER GRADE PG 64-22, GYR 75) (TWO 2" LIFTS)
- 775 208 - STORM DRAIN INLET PROTECTION (EROSION CONTROL LOG) (AS SHOWN AND PER DETAIL)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



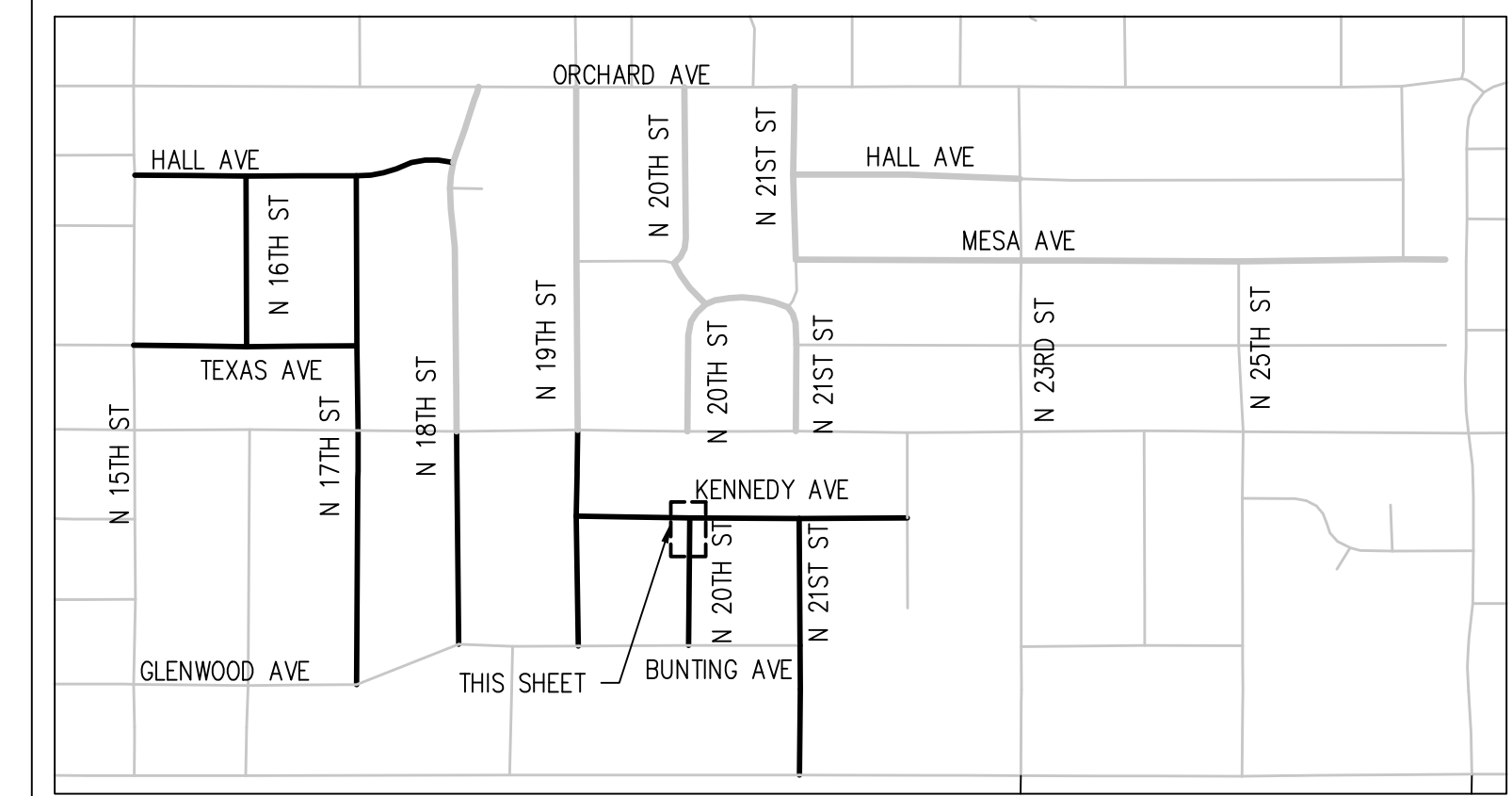
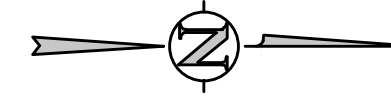
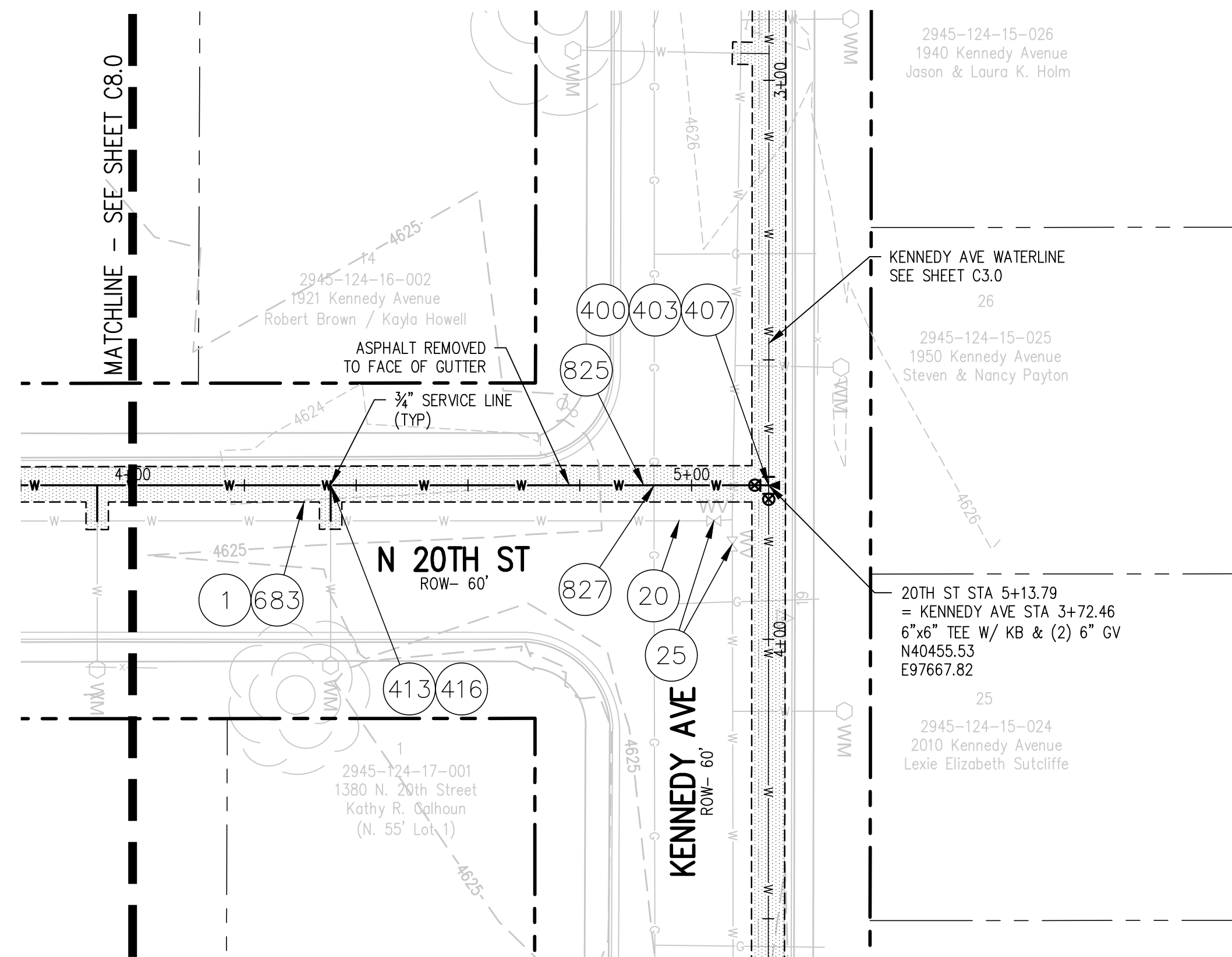
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	ZCF	09 22, 2022
REVISION			LAL/ZCF	09 22, 2022
REVISION			JJM	09 22, 2022
REVISION				



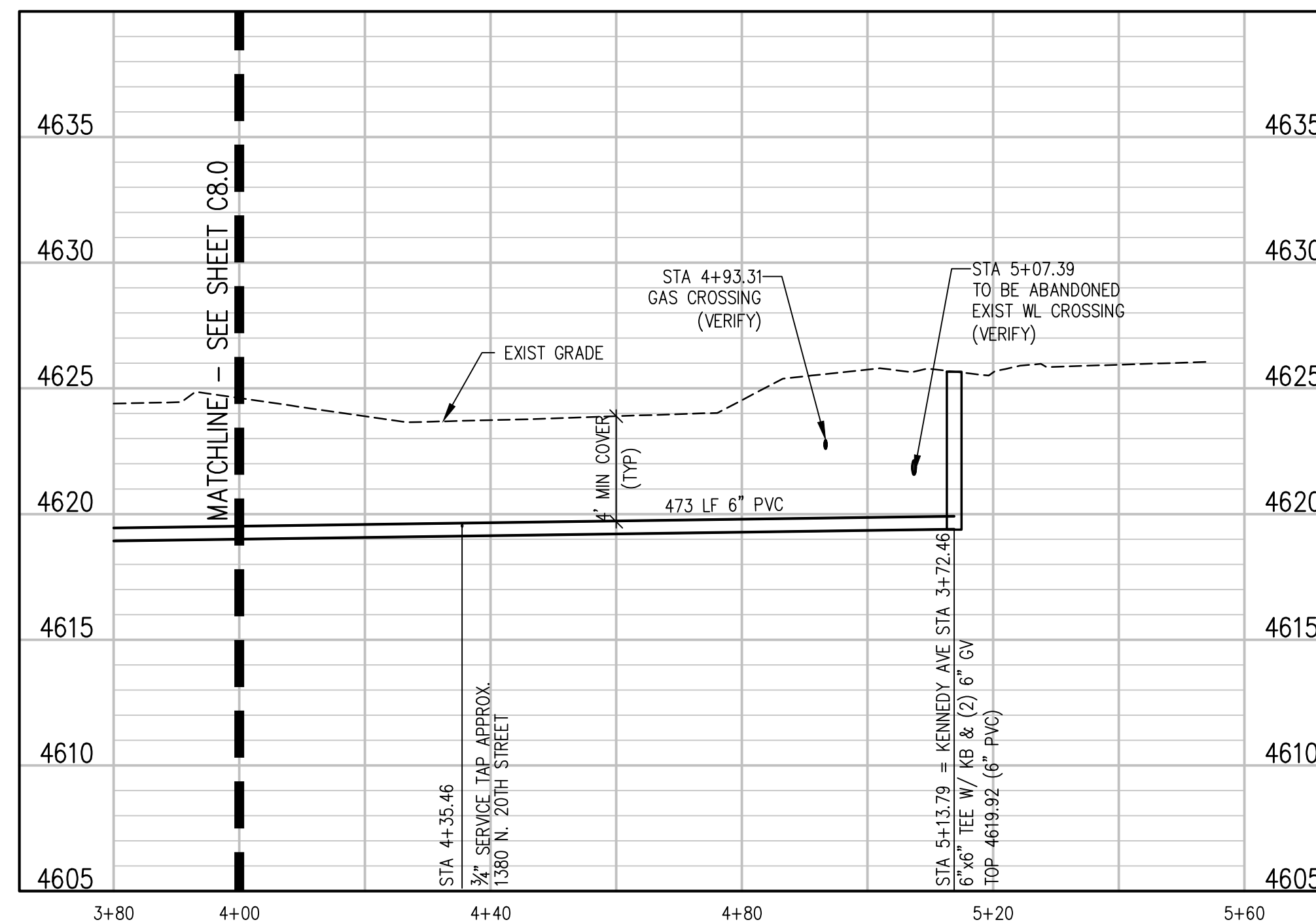
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 20TH ST WATER PLAN & PROFILE

C8.0



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. SAW CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN).
- 20 202 - ABANDON PIPE. ABANDONED BY PLUGGING REMAINING ENDS WITH CONCRETE.
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- 416 102.8J/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
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- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 827 PROTECT EXISTING GAS.



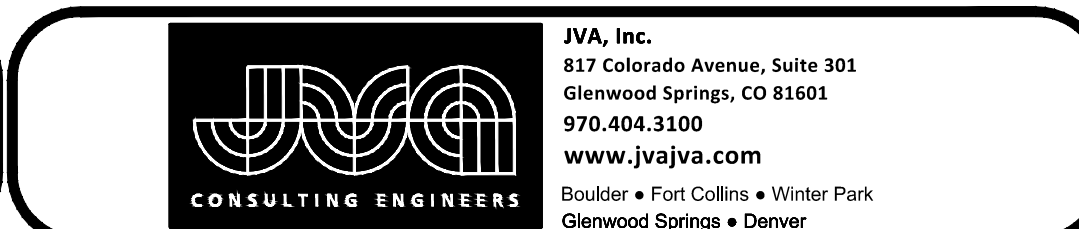
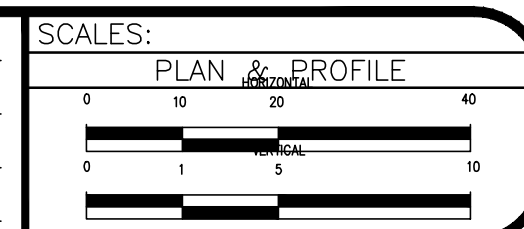
NOTES:

1. CONNECT TO EXISTING SERVICE LINES OR EXTEND SERVICE LINES TO NEW 6" WATERLINE
2. ALL CURB STOP AND SERVICE LINE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION
3. IF CURB STOP WAS NOT LOCATED FIELD LOCATE CURB STOP AND REPLACE EXIST SRVC CONNECTION WITH NEW CONNECTION TO NEW 6" WATERLINE

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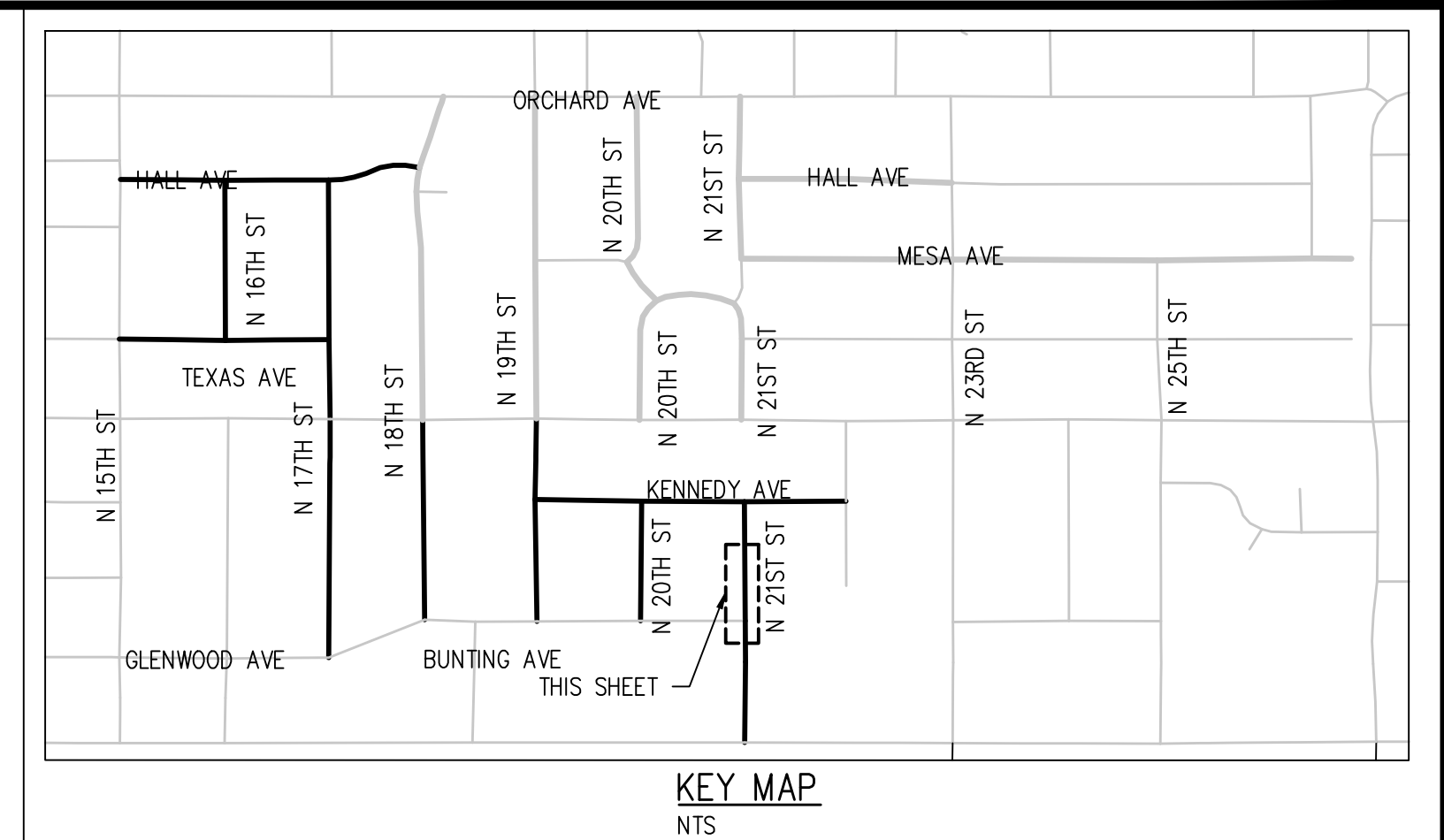
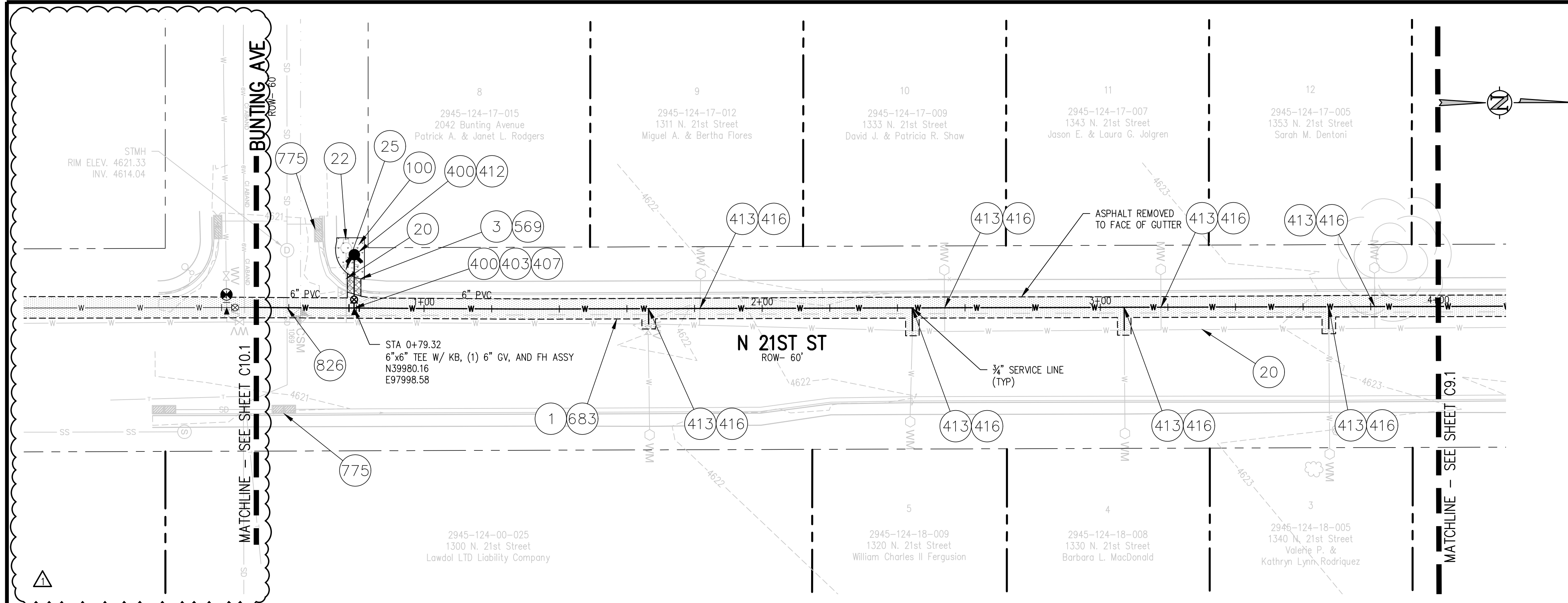
REVISION	DESCRIPTION	DATE
ADDENDUM 1	CONSTRUCTION NOTE 416	9/29/2022

DRAWN BY ZCF DATE 09 22, 2022
 DESIGNED BY LAL/ZCF DATE 09 22, 2022
 CHECKED BY JUM DATE 09 22, 2022
 APPROVED BY DATE



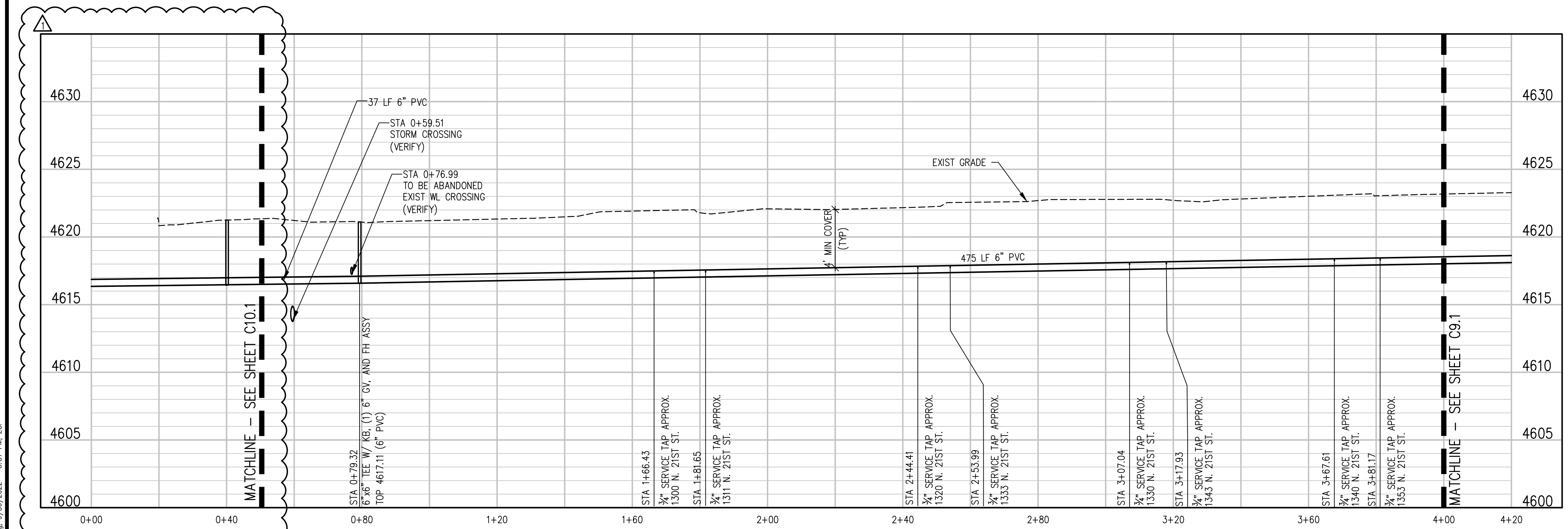
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 20TH ST WATER PLAN & PROFILE

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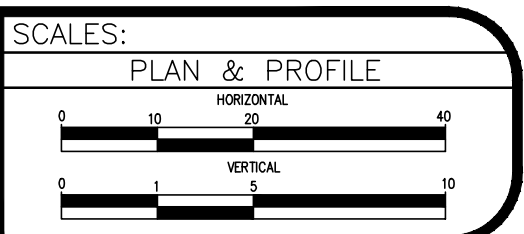
CONSTRUCTION NOTES

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- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



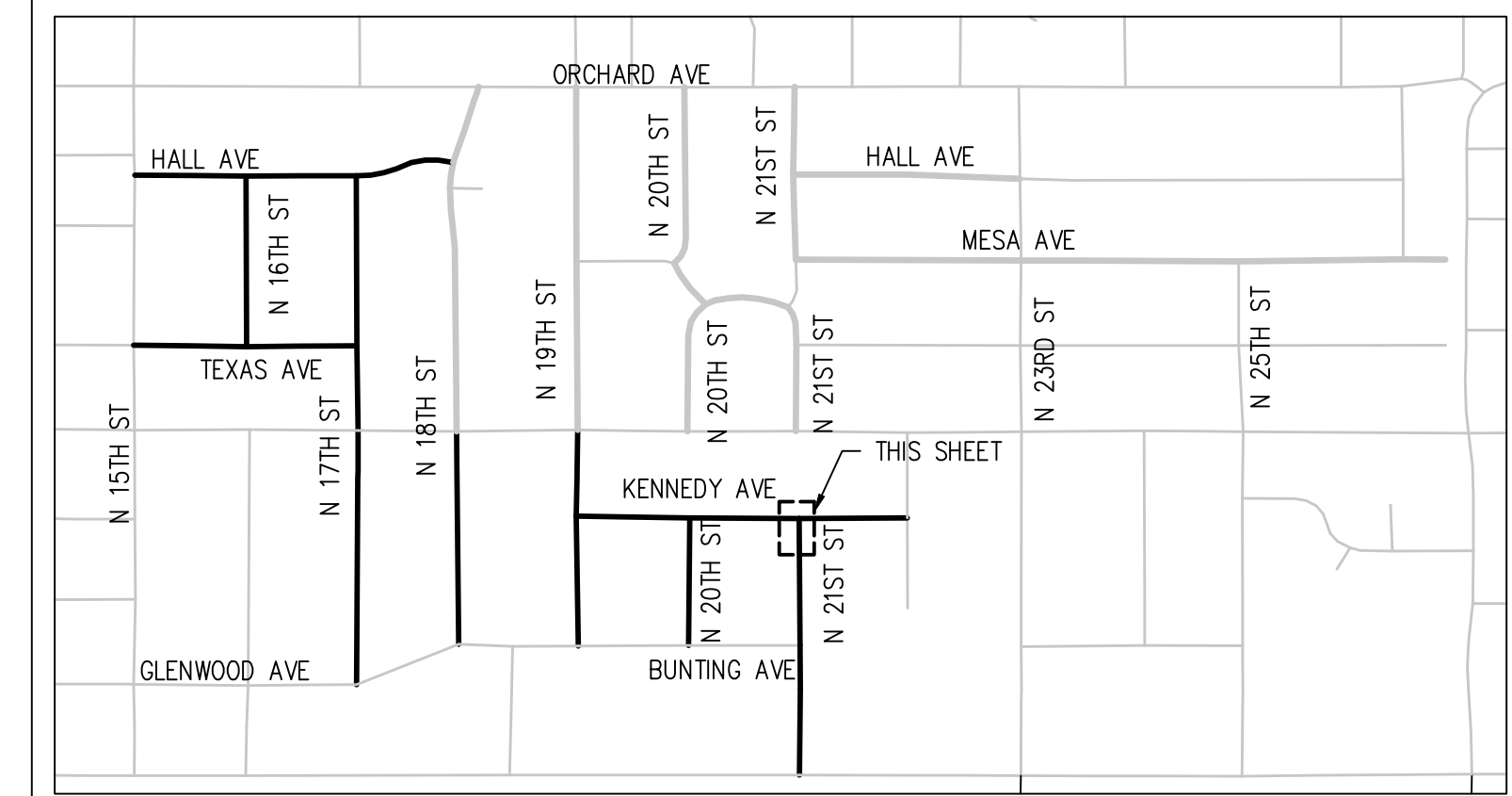
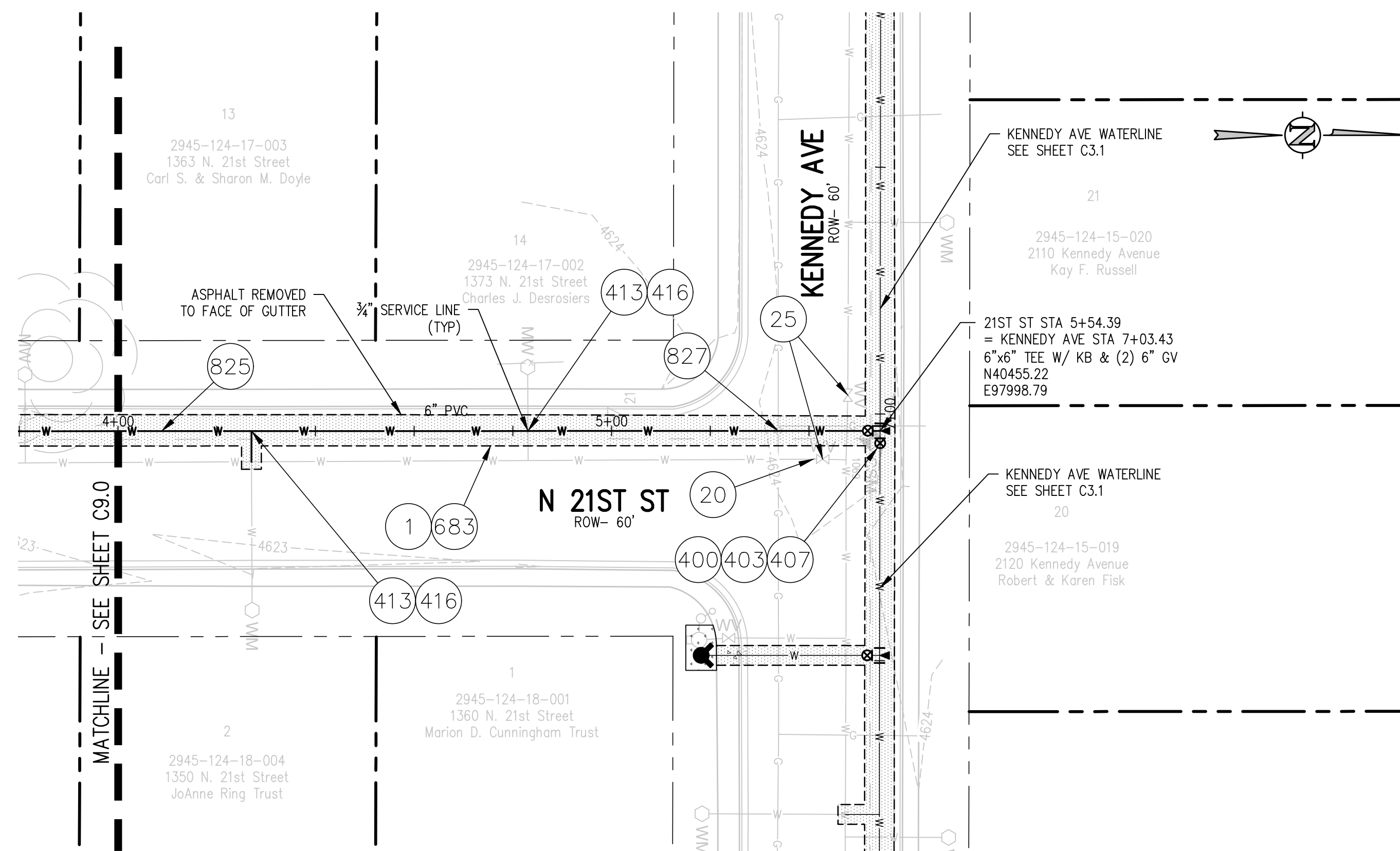
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION ⚠️	ADD 1 - N 21ST ST WL	9/22/2022	ZCF	09 22, 2022
REVISION ⚠️	ADDENDUM 1 - CONSTRUCTION NOTE 416	9/29/2022	LAL/ZCF	09 22, 2022
REVISION ⚠️			JJM	09 22, 2022
REVISION ⚠️				



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 21ST ST WATER PLAN & PROFILE

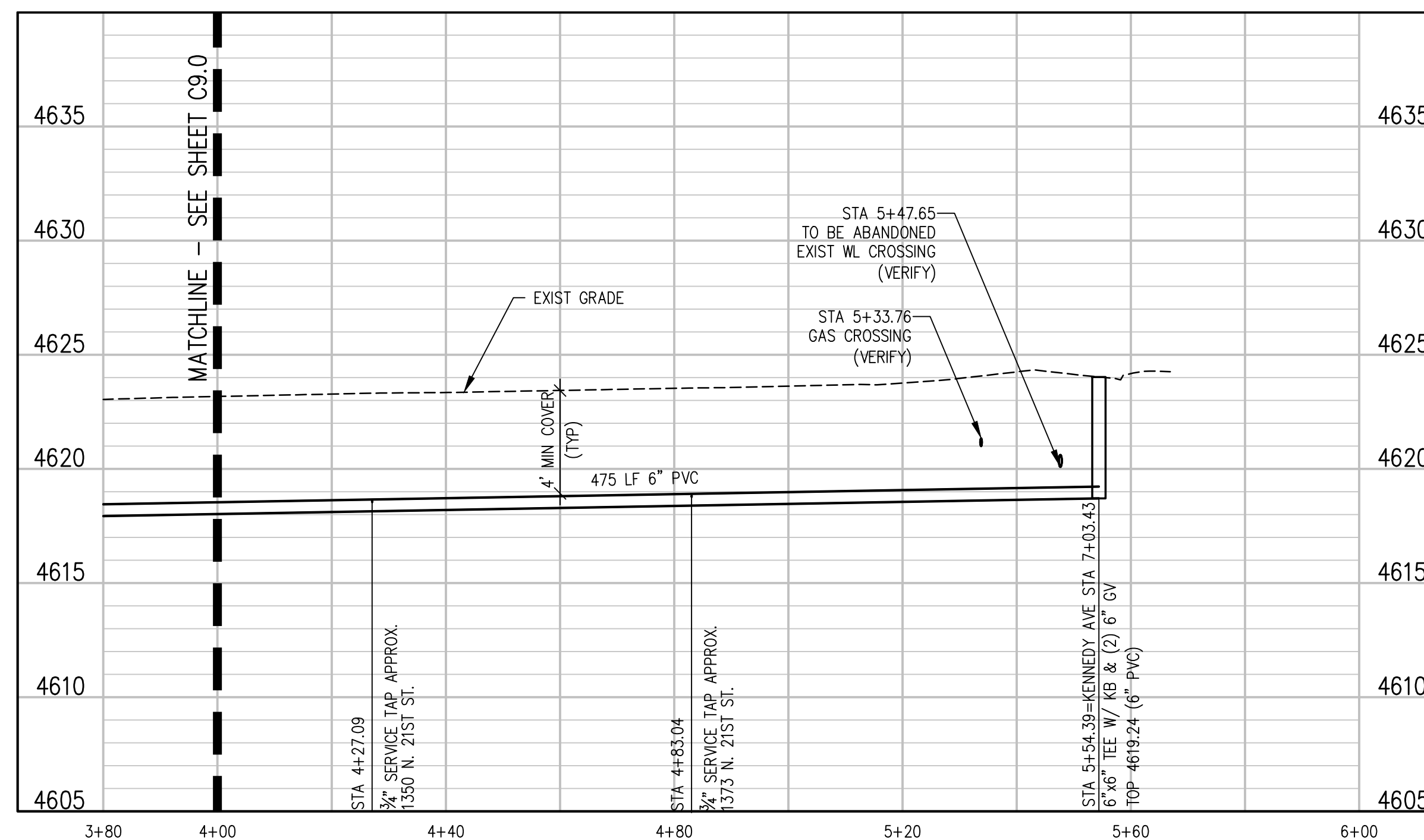
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KEY MAP
NTS

CONSTRUCTION NOTES

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- 827 PROTECT EXISTING GAS.



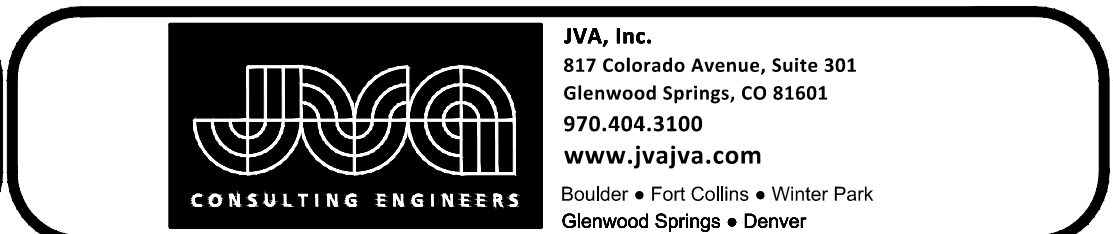
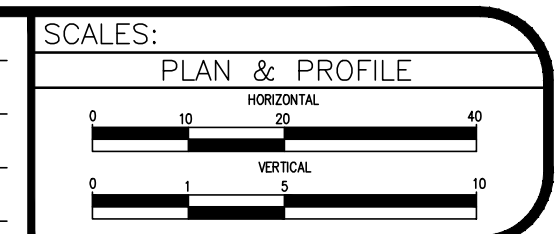
NOTES:

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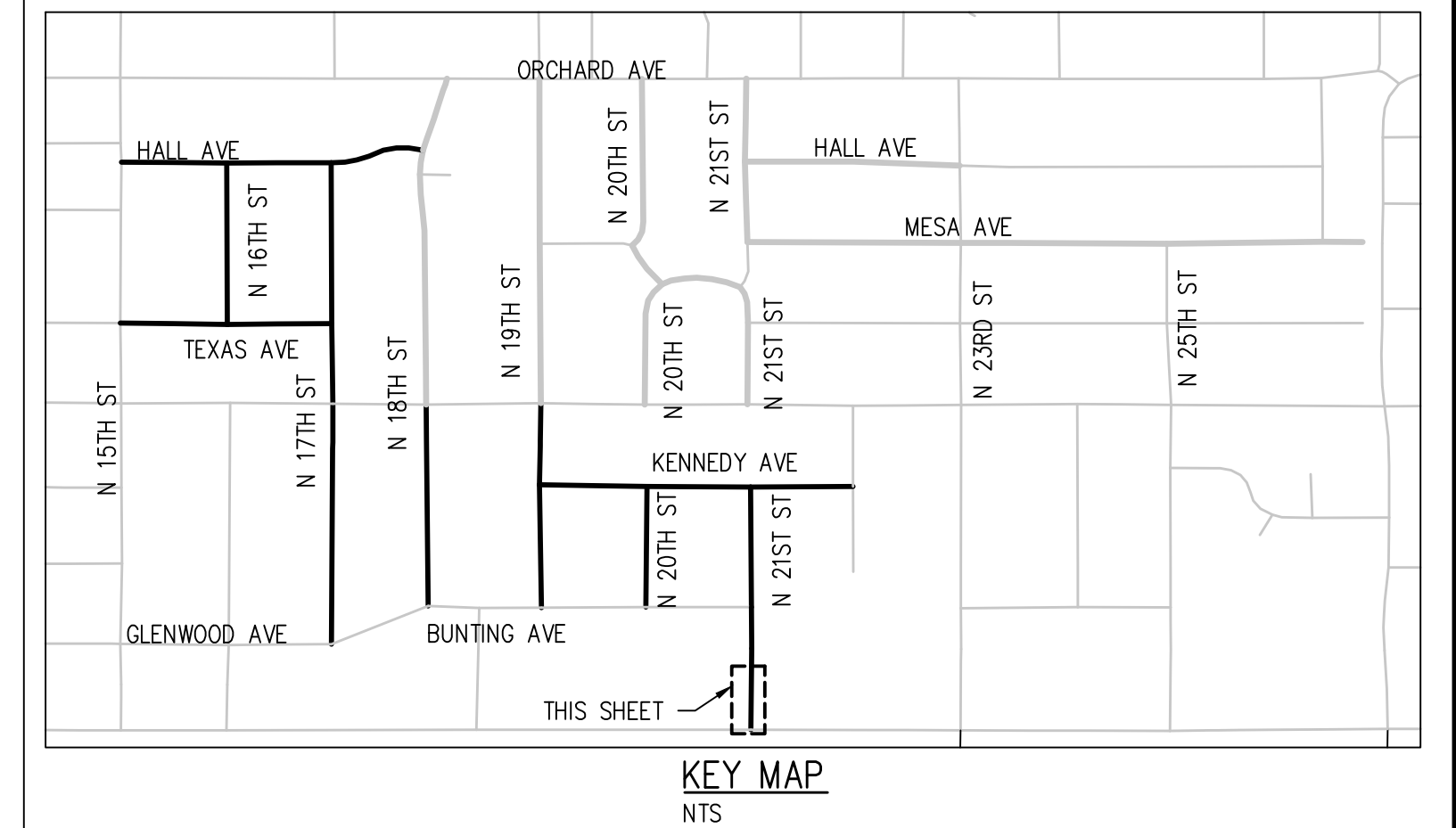
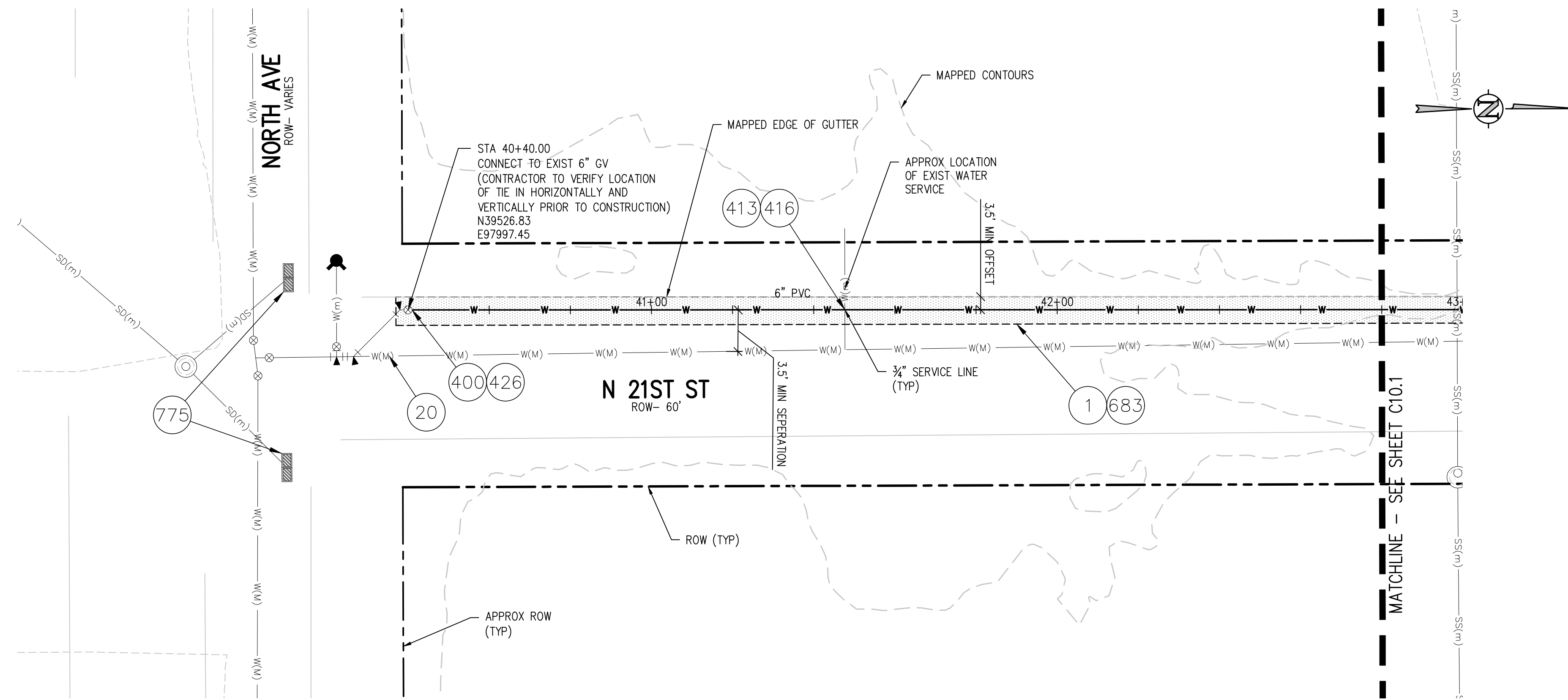
REVISION	DESCRIPTION	DATE
ADDENDUM 1 - CONSTRUCTION NOTE 416		9/29/2022

DRAWN BY ZCF DATE 09 22, 2022
 DESIGNED BY LAL/ZCF DATE 09 22, 2022
 CHECKED BY JJM DATE 09 22, 2022
 APPROVED BY _____ DATE _____



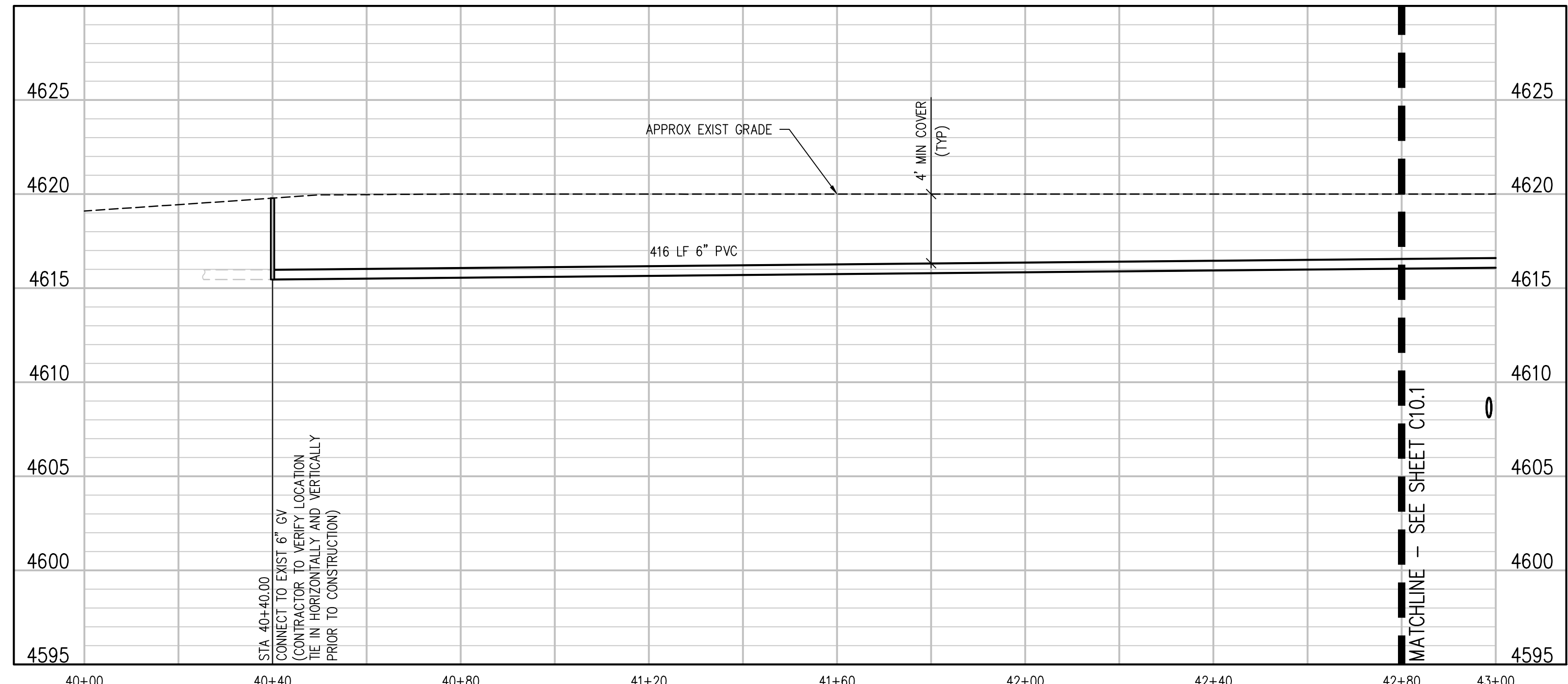
2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 21ST ST WATER PLAN & PROFILE

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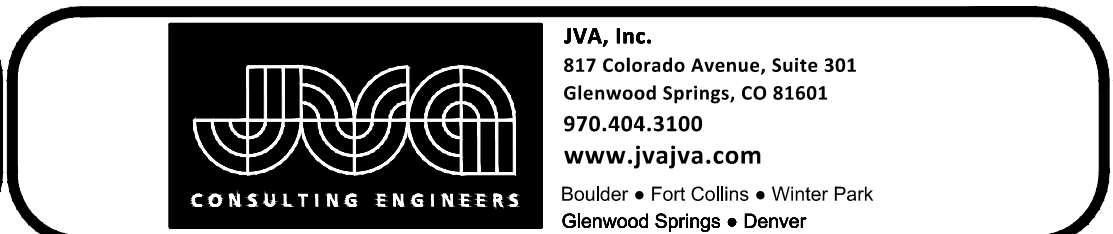
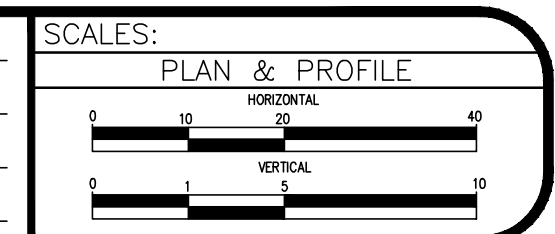


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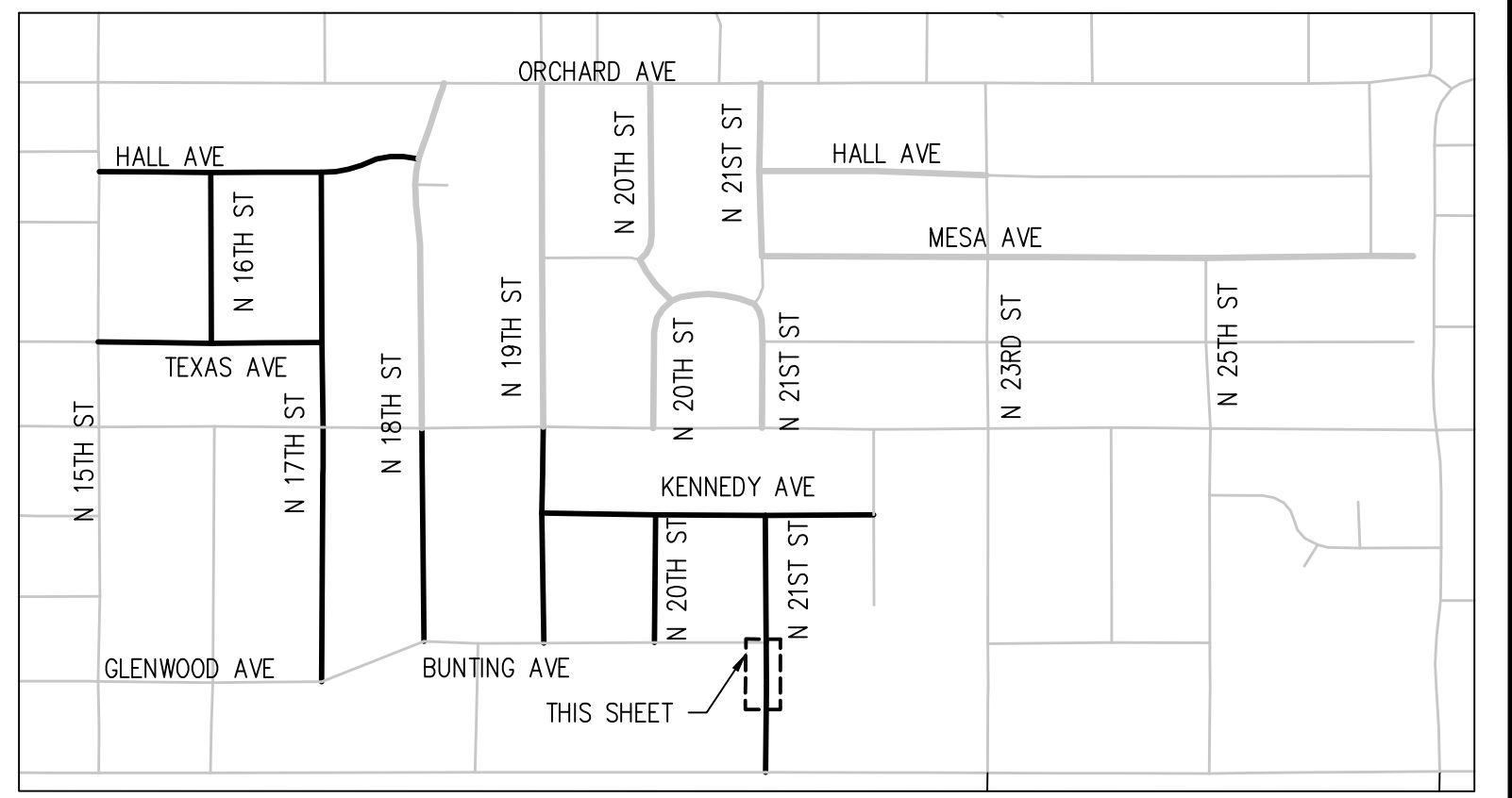
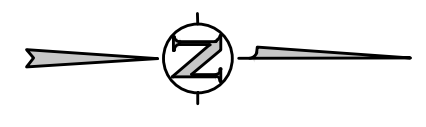
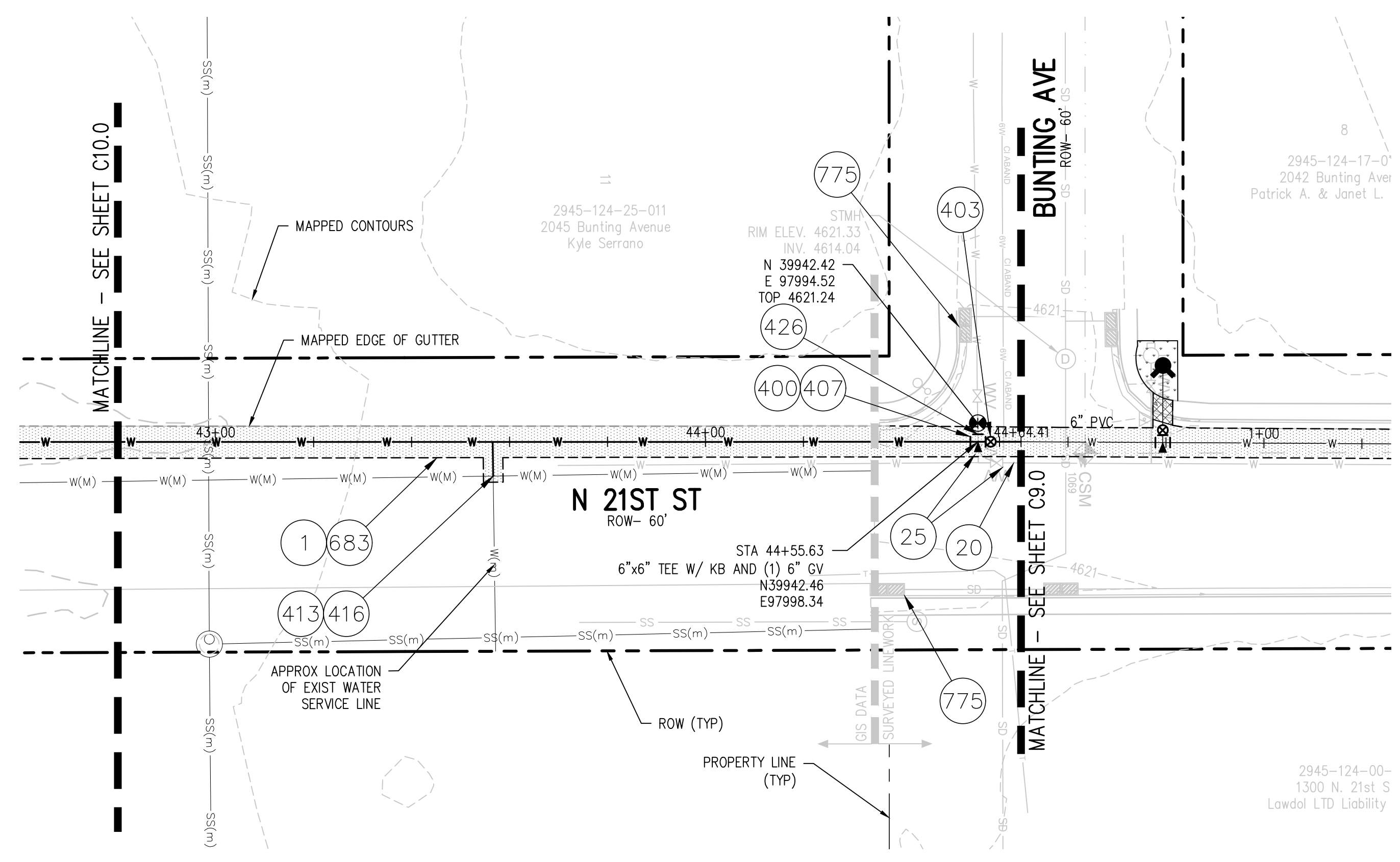
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
ADD 1	N21ST ST WL (ENTIRE SHEET)	09/22/2022	ZCF	09 22, 2022
			LAL/ZCF	09 22, 2022
			JJM	09 22, 2022



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 21ST ST WATER PLAN & PROFILE

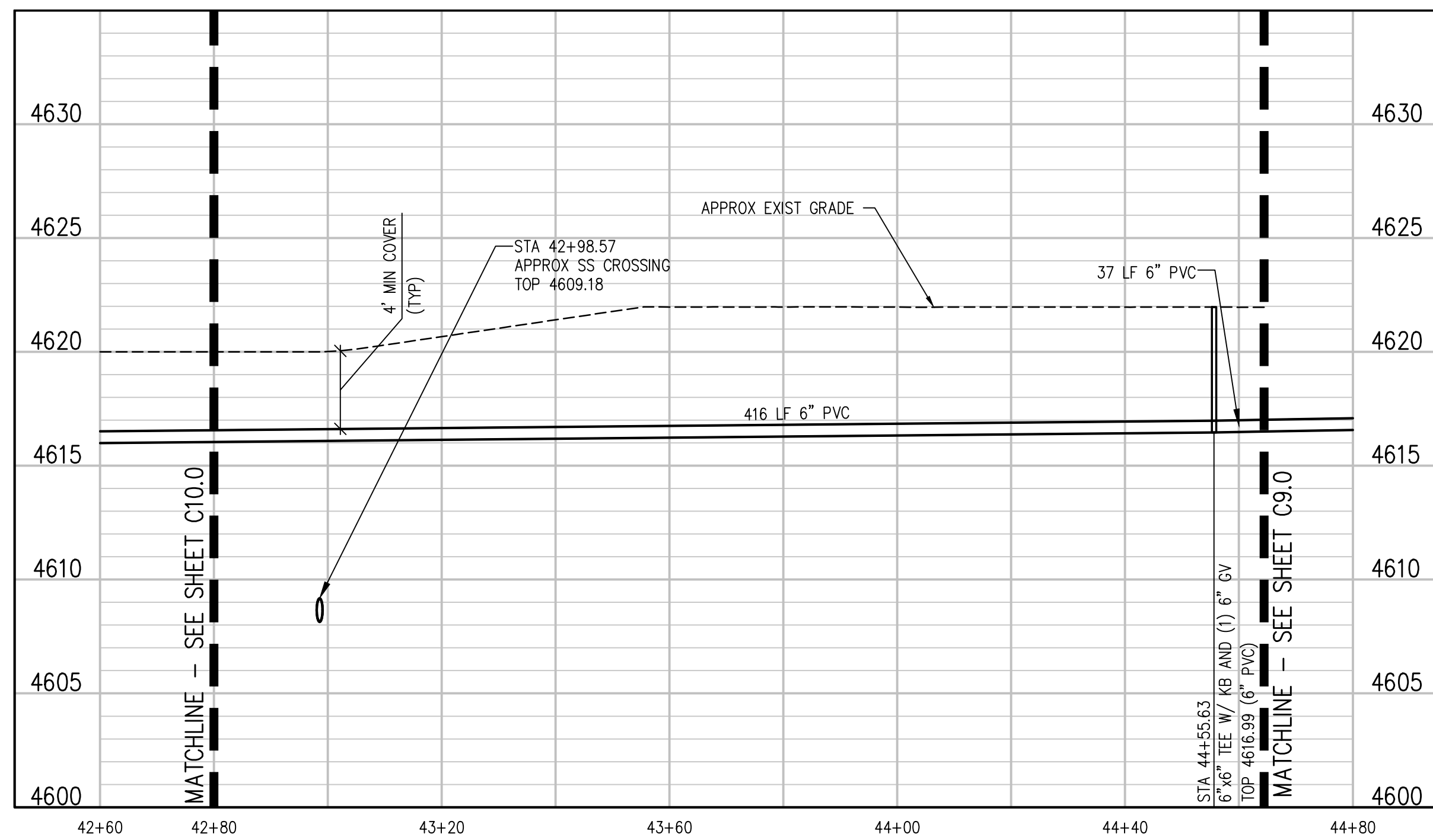
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KEY MAP
NTS

CONSTRUCTION NOTES

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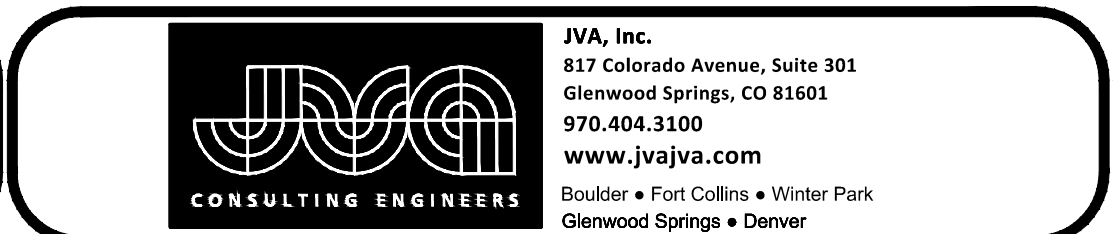
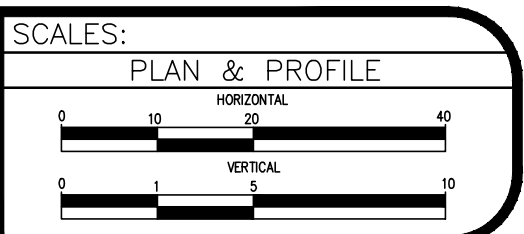
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REVISION	DESCRIPTION	DATE
ADD 1	N21ST ST WL (ENTIRE SHEET)	09/22/2022

DRAWN BY ZCF DATE 09 22, 2022
 DESIGNED BY LAL/ZCF DATE 09 22, 2022
 CHECKED BY JJM DATE 09 22, 2022
 APPROVED BY _____ DATE _____



2022 WATERLINE REPLACEMENT PROJECT - PHASE 1
N 21ST ST WATER PLAN & PROFILE

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